DS #: 4420

APN: 125-06-001-001

PROJECT: KYLE CANYON MASTER DRAINAGE STUDY (A.K.A. SKYE CANYON MASTER DRAINAGE)

SUBMITTAL: 4TH

SCANNED BY/DATE:

CHECKED BY/DATE:

CITY OF LAS VEGAS NEVADA

CITY OF LAS VEGAS INTER-OFFICE MEMORANDUM				DATE: March 1, 2012
TO: **Land Development Services** Department of Public Works				FROM: Oh Sang Kwon, P.E. Flood Control Section Department of Public Works
SUBJECT:	Drainage Study for:			**COPIES TO:**
Kyle Canyon Master Drainage Study				Slater Hanifan Group
Cross Streets:	Fort Apache Road & Moccasin Road			Wachovia Bank / Carwin Advisors
File Number:	F:\Depot\DSMemos\DS4420D.doc			Bart Anderson, P.E., DevCo
Parcel Number:	125-06-001-001			Randy Fultz
Zoning Action:				CCPW, CCRFCD
FEMA Flood Zone	YES	NO **X**		NDOT; NV Energy
Proposed Storm Drain	YES **X**	NO		PB America, Inc.

HISTORY	DATE RECEIVED	DATE REVIEWED	COMMENTS	REVIEW FEES	FEES PAID Transaction #
1st Submittal	6/22/2010	7/13/2010	Not Approved	$1,000.00	147216: $1000
2nd Submittal	9/17/2010	10/4/2010	Not Approved	$400.00	153788: $400
3rd Submittal	10/15/2011	11/14/2011	Not Approved	$400.00	153788: $400
4th Submittal	2/13/2012	3/1/2012	See Comments Below	$400.00	274196: $400
			TOTAL FEES (LDDRS):	**$2,200.00**	**----**

REMARKS:

Update to original Kyle Canyon Master Drainage Study (DS4091). Site layout has been changed.

The Master Drainage Study for the subject project has been reviewed and:

	is approved subject to conformance to all City standards and the following conditions:
	must be resubmitted or supplemented including the following:
X	is conditionally approved subject to Clark County Regional Flood Control District concurrence.
X	is conditionally approved subject to Clark County Department of Public Works concurrence.
X	is conditionally approved subject to Nevada Department of Transportation concurrence.
X	is conditionally approved subject to BLM concurrence/approval.

1. Please note that the traffic study must be approved prior to final approval of the Master Drainage Study. If the street layout does not match the Master Drainage study, an update to the Master Drainage Study must be submitted to address the changes.
2. The Kyle Canyon Master Drainage Study is proposing to revise the hydrology and facilities indentified in the *Clark County Regional Flood Control District's (CCRFCD) 2008 Las Vegas Valley Flood Control Master Plan Update*. A Master Plan Amendment (MPA) must be submitted to the City of Las Vegas for approval. The City of Las Vegas will coordinate the MPA submittal to CCRFCD for approval. The Master Developer will be responsible for preparing all submittals needed for CCRFCD along with any and all presentations. The MPU must be approved by CCRFCD prior to the final approval of the Master Drainage Study.

3. Per a meeting held in August 18, 2011 between the developer and the *City of Las Vegas*, it was agreed that NV Energy's approval of any proposed drainage facilities within their access easements (such as the proposed detention basins) must be obtained prior to the final approval of the Master Drainage Study. Please provide documentation for such approval or acknowledgment.
4. Please note that any future technical drainage study submittals that differ from the Master Drainage Study (ie. Changes in pods, infrastructure, flows etc.) will require an update to the Master Drainage Study and this update must be approved by the *City of Las Vegas Flood Control Section* prior to final approval of technical drainage study.
5. The proposed detention basins will require coordination with the State of Nevada, Division of Water Resources Dam Safety and will require the State's approval prior to permitting.
6. Please obtain necessary 404 permits from Army Corps of Engineers and provide a copy of the permit to Flood Control prior to issuance of the grading permit. The contact information for Army Corps of Engineers is listed below:

   Patricia L. McQueary
   Chief, USACE S. George Regulatory Office
   US Army Corps of Engineers
   321 North Mall Drive
   Suite L-101
   St. George, UT 84790

   (435) 986-3979 (Office)
   (435) 986-3981 (FAX)
   Patricia.L.McQueary@usace.army.mil

7. Please note that the proposed 100-year flood protection facilities identified on Exhibit F must be constructed by the Master Developer as a part of the master planned infrastructure. Technical drainage studies are required for each phase of the master planned infrastructure improvements. The technical drainage studies for the infrastructure improvements may be submitted with conditional approval of this Master Drainage Study. However, final approval for the Master Drainage Study must be obtained prior to conditional approval of the infrastructure drainage studies.
8. Technical drainage studies are required for each of the POD's. The technical drainage studies for the POD's may not be submitted until the conditional approval of the pertinent infrastructure drainage study is obtained. Final approval for the infrastructure drainage study must be obtained prior to conditional approval of the impacted POD drainage studies.
9. Building permits for the homes within the individual POD's will not be issued until construction of the street and flood control infrastructure around the POD is substantially complete or interim protection is provided per the approved technical drainage study.
10. This master drainage study is acceptable in concept; however, *City of Las Vegas* will not formally accept the study until the *Clark County Regional Flood Control District* (CCRFCD) has issued a letter of concurrence. The engineer should contact the CCRFCD to confirm that they have begun their review.
11. The site is also adjacent to Clark County jurisdictional boundaries. The engineer must coordinate the Master Drainage Study with *Clark County Public Works Department* (CCPW) and incorporate any concerns for boundary conditions. CCPW concurrence is required prior to final acceptance of the Master Drainage Study.
12. The project proposed to construct facilities and/or increase flows within *Nevada Department of Transportation* (NDOT) right-of-way. Therefore, NDOT concurrence is required prior to final approval of the Master Drainage Study.

13. The project proposed to discharge flows onto and proposed facilities within U.S. Bureau of Land Management (BLM) property. Therefore, BLM concurrence is required prior to final approval of the Master Drainage Study.
14. The proposed berm/levee along Moccasin Road will require approval from *Federal Emergency Management Agency* (FEMA) in the future. The proposed berm/levee must be designed to meet the minimum requirements set by FEMA and CCRFCD by a future technical drainage study.
15. The design of debris basins at all major culvert entrances to limit the amount of sediment and debris entering the storm drain facilities will be required in a future infrastructure study.
16. Please note that all detention basins must be designed per CCRFCD criteria including a low flow facility around the detention basin. Also, include new water quality feature per Storm Water Management Plan.
17. Please note that all proposed interim facilities must be maintained by the master developer.
18. Provide a legal description of the proposed detention basins prior to recordation of the parent final map.
19. Coordinate the proposed drainage facilities with *Sheep Mountain Parkway* project. Please contact Greg McDermott at 702-229-2143 to coordinate the proposed drainage facilities.

NOTE:

In an effort to increase administrative efficiency, the City of Las Vegas Public Works Department requires all soil reports, drainage studies and traffic impact analysis submittals to be accompanied by an electronic copy of the submittal. Electronic documents must be submitted with one original hard copy of the study. Electronic documents should be on a universal computer-readable digital output replicating your submittal to be used for archival or display purposes. This may be more than one file if necessary. An Indexed Portable Document Format (PDF) or Print Ready CAD file formats with a minimum of 300dpi are the desired formats, but provided it is a high quality digitized replication of the submittal, other formats may be acceptable. If figures are in color, they must be scanned in color and saved as a separate file. The new submittal requirement is effective on July 1, 2011. If there are any questions regarding these new requirements, please contact Oh Sang Kwon in the Flood Section at (702) 229-2177 or Rick Schroder in Traffic Engineering at (702) 229-6327.

Any future changes to the proposed design (or design assumptions) as outlined in the approved master drainage study and attached preliminary grading plan which affect drainage must be addressed in a Drainage Study Amendment and accepted by the *City of Las Vegas Flood Control Section*. Additionally, conditional acceptance of a drainage study is valid for a period of one (1) year. If the proposed construction has not been completed in that time period, the *City of Las Vegas* reserves the right to require additional conditions and/or submission and acceptance of a complete drainage study update prior to further construction of a project.

Please be advised that all land surface area disturbances over 1 acre or any area adjacent to a water way must submit to the Nevada Division of Environmental Protection a "Notice of Intent" to discharge that certifies a stormwater pollution prevention plan has been developed and is maintained on site; for inclusion in the Stormwater General Permit No. NVR100000. A phased construction unit in a contiguous subdivision is considered under construction until all stripped or disturbed surface areas have been covered by paving, building construction or planting. For more information, including forms and applications see http://ndep.nv.gov/bwpc/storm01.htm or call (775) 687-9429.

END OF REMARKS
osk

T/R/S: T19S/R60E/6 & 7
AREA G-6, 7, & F-12

REGIONAL FLOOD CONTROL DISTRICT

Rec'd: 5/23/12
DS 4420
G-06
N/C

Gale Wm. Fraser, II, P.E.
General Manager/Chief Engineer

BOARD OF DIRECTORS

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May 7, 2012

Mr. Oh Sang Kwon, P.E.
City of Las Vegas
333 North Rancho Drive
Las Vegas, NV 89106

DISTRICT CONCURRENCE: KYLE CANYON
(DS #4420D) (RFCD No. 12-8054)

Dear Mr. Kwon:

Clark County Regional Flood Control District (District) reviewed Technical Drainage Study dated June 22, 2010, Addendum No. 1 dated September 17, 2010, Addendum No. 2 dated October 18, 2011, and Addendum No. 3 dated February 13, 2012 for above-mentioned project as submitted by SLATER HANIFAN GROUP. In addition, District is in receipt of the Conditional Letter of Acceptance from City of Las Vegas dated March 1, 2012.

District concurs with acceptance of this Technical Drainage Study by City of Las Vegas.

District's review of this project was limited to issues of Regional Flood Control Significance as defined in *Uniform Regulations for the Control of Drainage*.

Please be aware that as additional information becomes available and/or restudies of Flood Insurance Studies are performed, information submitted by SLATER HANIFAN GROUP may be superseded. Compliance with regulatory elements and design standards specified in *Uniform Regulations for the Control of Drainage* does not imply a guarantee that properties will be free from flooding or flood damage. The District, its officials, or employees assume no liability for information, data, or conclusions presented by consulting engineers. We, therefore, make no warranties, either expressed or implied, in conducting this review.

GALE WM. FRASER, II, P.E.
General Manager/Chief Engineer

BY: _____
Abigail Mayrena, P.E., CFM
Senior Engineer

_____ FOR
Andrew R. Trelease, P.E., CFM
Principal Civil Engineer

AM:ART:sa

c: Stephen Jones, P.E., Slater Hanifan Group

P:\Letters and Memos\Local Drainage\Land Development & Drainage\2012\L-12-8054.doc

600 S. Grand Central Parkway, Suite 300 • Las Vegas, Nevada 89106-4511
(702) 685-0000 • FAX: (702) 685-0001
Website: *http://www.regionalflood.org*

Oh-Sang Kwon

From: Steve Jones [sjones@shg-inc.com]
Sent: Thursday, May 03, 2012 4:05 PM
To: Abigail Mayrena (AMayrena@regionalflood.org)
Cc: Oh-Sang Kwon; Todd Steadham
Subject: RE: Kyle Canyon exhibits
Attachments: Exhibit J - Regional Facilities Map.pdf

Abi,

Facility U4 is intended to be constructed in the ultimate condition when Sheep Mountain Parkway is improved. Prior to Sheep Mountain Parkway improvements, the discharge from the regional detention basin Facility P01W (Facility P04W) is maintained in the existing southern arroyo and conveyed thru the Kyle Canyon site to the Hualapai Way alignment where it is conveyed north. Therefore, rather than revising the regional alignment after Sheep Mountain Parkway is complete and proposing a new developer financed (Category B) regional facility, Facility U4 has been changed to a future local facility and the regional alignment has been changed to match the proposed drainage condition presented in the CLV conditionally approved drainage study. Per the March 22, 2012 meeting with you and Andrew, this was determined an acceptable regional alignment to replace U4.

The attached Exhibit J and its summary table of West Regional Facilities has been updated accordingly. Note the only flow identified in the updated summary table that has not been updated is for Facility P22W; however, the flow reported and utilized for conceptual sizing of this facility included outflow from Detention Basin P01W which is considered conservative. Therefore, the reported flow and conceptual size for P22W is considered acceptable and the flow returns to as reported in the summary table at the next downstream facility (north of the intersection of Hualapai and Iron Mountain).

Let me know if you have any questions, comments or concerns. Thanks,

Steve Jones, P.E.
Assistant Project Manager

SLATER HANIFAN GROUP
"The Benchmark of Our Profession."

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FAX: (602) 687-9693

Any files contained within are to be used for information ONLY. Accuracy and/or design information to be verified from approved original plans. Use of electronic media is at the sole risk of the user.

From: Abigail Mayrena [mailto:AMayrena@regionalflood.org]
Sent: Monday, April 30, 2012 10:09 AM
To: Steve Jones
Cc: Oh Sang Kwon ,P.E. (okwon@lasvegasnevada.gov)
Subject: Kyle Canyon exhibits

As discussed last week, can you revise U4 to be a Category B facility. I'll need the revised exhibits before I can process your concurrence letter. Can you also send the revised exhibits to CLV.

Thanks,

Abigail Mayrena, P.E., CFM
Senior Engineer
Clark County Regional Flood Control District
600 South Grand Central Pkwy, Suite 300
Las Vegas, Nevada 89106

AMayrena@regionalflood.org
702-685-0000 (phone)
702-685-0001 (fax)
www.regionalflood.org


Please consider the environment before printing this e-mail.

SLATER HANIFAN GROUP
CONSULTING ENGINEERS & PLANNERS

Skye Canyon Detention Basin #1 & Master Drainage Update Kick-off – Meeting Agenda

Where: City of Las Vegas – 7th Floor Development Services Center (333 N. Rancho Dr.)

Attendees: Steve Jones (SHG), Mark Failla (SHG), Jerry Slater (SHG), Rhonda Miller (SHG), Marc Bolduc (Olympia Companies), David Bowers (CLV), Oh Sang Kwon (CLV), Albert Sung (CLV)

Date: July 10, 2014

Purpose: Kickoff project design of Detention Basin #1 and updating the Master Drainage Study. Outline project goals and identify key design items.

Detention Basin #1

- Previously approved concept in Carwin Master Drainage Study
- Required approvals for technical design
  - City of Las Vegas, CCRFCD, Nevada Dam Safety, NV Energy, 404 Permit
- Pertinent Design Criteria
  - 100-Year Storm Storage with Drain Time
  - Debris Storage
  - PMF Spillway
  - Access
  - Low Flow
  - Water Quality?
- Inclusion of any other City guidelines?
  - Specifications? ← spec. ← ASK Inspector
  - Dam Safety analyses? ← Dwhere ← to submit
- Inflow alignment & improvements
  - Usage of Sheep Mountain Parkway
  - Sediment Capture
- Outfall alignment & improvements
  - Regional alignment
  - Maintenance responsibilities
- Dam Safety Review & Approval Timing
- Structural Design Timing
- Wrap-up & Conclusions

Master Drainage Study Update

- Present new land plan
- Re-alignment of Sheep Mountain Parkway
  - Primary flood conveyance – open vs. closed

Kyle Canyon Master Drainage Study Meeting Agenda

Where: City of Las Vegas – 7th Floor Development Services Center (333 N. Rancho Dr.)

Attendees: Mark Failla (SHG), Steve Jones (SHG), Todd Steadham (SHG), Mike Ross (Carwin Advisors), Andrew Trelease (CCRFCD), Rob Welch (CLV), Randy Fultz (CLV), Bart Anderson (CLV), Oh Sang Kwon (CLV)

Date: August 18, 2011

Purpose: Provide refresher regarding the main concepts presented in the Kyle Canyon Master Drainage Study, validate discussions between client and CLV since the study was last worked on and discuss impacts from the new land plan.

- Re-Overview of project and present new land plan

- Address comments and/or concerns regarding New Land Plan
  1. Re-establish main drainage discharge issues worked out in previous submittals.
     a. Moccasin Discharge
     b. Brent Lane/Horse Interchange Discharge
     c. Sheep Mountain Parkway Interim Usage for Discharge
     d. US-95 planned as a hydrologic cut-off
     e. Future Master Plan Amendment (MPA)
     f. NV Energy approval of concept facilities and easements

  2. Meeting Items between Randy Fultz and Gale Fraser
     a. Assessment of Berm/Levee Diversion in offsite drainage area?
     b. BLM approval of discharge at Moccasin?
     c. Existing Upper Las Vegas Wash Detention Basin and Levee. Project impacts to these facilities?

  3. Sheep Mountain Parkway
     a. 500-ft to 350-ft in width (allowable width to provide flood control facilities, i.e. reservation of roadway)
     b. Allow for use as corridor for flood control conveyance?
     c. Arroyo discharge into Sheep Mountain Parkway?

  4. Detention Basins
     a. Regional facilities? Designed to Regional standards? Dual use facilities?
     b. Grading and discharge into arroyos?

  5. 401 Permitting? Plan and processing?

  6. Major Crossing of US-95 by proposed Regional Culvert?
     a. Allowable?
     b. Impacts from future planned interchange?

- Wrap-Up & Conclusions

From:	Steve Jones
To:	Abigail Mayrena (AMayrena@regionalflood.org); Andrew Trelease (ATrelease@ccrfcd.org); Robert Welch; Oh-Sang Kwon; Randy Fultz; Mark Failla; Todd Steadham; Mike Ross (Michael.Ross@carwinadvisors.com); Bart Anderson
Subject:	8/18/11 Kyle Canyon Meeting Notes
Date:	Thursday, August 25, 2011 5:52:23 AM
Attachments:	110818 KC Master Drainage Re-Kickoff-Mtg Mins.pdf

All,

Attached are the notes I have prepared to summarize our meeting on 8/18/11 regarding the re-kickoff of the Kyle Canyon Master Drainage Study. Please review and let me know if you have any comments, questions or additional items you would like added to the notes.

Thanks,

Steve Jones, P.E.
Flood Control Engineer

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SLATER HANIFAN GROUP
CONSULTING ENGINEERS & PLANNERS

MEETING MINUTES

Project Number: WCR0902.004
Project Name: Kyle Canyon Master Drainage Study
Meeting Date: 08/18/2011
Meeting Location: CLV
Meeting Topic: Kyle Canyon – Re-Kickoff Meeting (Provide refresher regarding the main concepts presented previously in the study, validate discussions between client, CCRFCD and CLV since the study was last worked on and discuss impacts from the new land plan)

Attendees:	*Company Name:*	*Contact Info (phone)*
Rob Welch	CLV	702-229-2177
Oh Sang Kwon	CLV	702-229-1815
Bart Anderson	CLV	702-229-2198
Randy Fultz	CLV	702-229-2143
Andrew Trelease	CCRFCD	702-685-0000
Abigail Mayrena	CCRFCD	702-685-0000
Steve Jones	SHG	702-284-5300
Mark Failla	SHG	702-284-5300
Todd Steadham	SHG	702-284-5300
Mike Ross	Carwin Advisors	702-269-0043

Meeting Notes per Agenda Outline (Attached):

Item:	*Discussion:*
1	***Re-Overview of Project*** – SHG provided an overview of the status of the project and introduced the new land plan to be utilized by the master drainage study.
2	***Address Previous Comments*** – SHG discussed that after receiving conditional approval from CLV, the study will be forwarded to all applicable entities required for concurrence review. Mike and Bart stated that their wish would be to have conditional approval from CLV by the first week of October for the scheduled hearing in front of the City Council Board. All agreed that it is possible for this to occur but acknowledged the tight schedule would be difficult to meet as CLV will need at least 3 weeks for review of the study.
3	***1a: Moccasin Discharge*** – SHG presented that the discharge into Moccasin will be similar to as presented previously in the study, including proposing an interim levee along the Moccasin alignment (alignment of future CCRFCD facility) and allowing the flow to spread across the BLM land. Andrew stated that after discussion with Gale Fraser, it was concluded that CCRFCD would accept this solution if BLM approves of the concept and impacts to downstream RFCD facilities are addressed. SHG noted that its discharge into Moccasin is less than the flow the Focus/GCW drainage study showed for the site; therefore, it referenced the GCW Flo-2D analysis in the concept design of the proposed levee. CLV requested that SHG assess any increase in flow depths along the levee from the existing condition based on the GCW Flo-2D analysis and would like us to receive acceptance from GCW to utilize their Flo-2D model.CLV and CCRFCD noted that the levee will have to be designed as FEMA certifiable and that the future technical design can address these issues. CLV and CCRFCD expressed concerns that because the levee is an interim facility that it may not be designed to accommodate the future regional flows in the alignment and that it will be required to be a privately maintained facility. If the levee is designed to ultimate RFCD flows it could be publically maintained by RFCD funds. Andrew stated that non-publically maintained facilities cannot be certified by FEMA. CLV stated that they will not require submittal to FEMA for the levee. SHG agreed to provide discussions in the upcoming submittal addressing these issues regarding the Moccasin discharge. In addition, CLV requested that any conveyance in Moccasin from Fort Apache to Hualapai be proposed as a closed conduit due to future plans for a roadway.
4	***1b: Brent Lane/Horse Interchange Discharge*** – SHG discussed that the previous requests from CLV will be

Prepared By: Steve Jones, SHG

Please notify the preparer if you have any questions, concerns or additions to these minutes within 2 days. After 2 days the content of this document will be considered accurate and accepted as the final recordation.

Item:	Discussion:
	satisfied to route additional flow from Brent Lane to the south and Horse Drive to help remediate the current flooding issues in Brent Lane.
5	***1c: Sheep Mountain Parkway Interim Usage for Discharge*** – SHG discussed that it still plans to utilize Sheep Mountain Parkway for flood conveyance. CLV and CCRFCD discussed that they will require a facility that is expected to be permanent in Sheep Mountain, which is considered an underground conveyance. CLV expects that the facility will be planned for a future depressed highway in Sheep Mountain. SHG agreed to accommodate the request for underground conveyance in Sheep Mountain. CLV noted that BLM approval may be required to obtain a right-of-way grant for any grading associated with daylighting the pipe at Moccasin/Fort Apache on BLM land. SHG acknowledged and discussed that the study will address design constraints of the facility in Sheep Mountain. CLV and CCRFCD also discussed that because the future regional facility is planned in the Sheep Mountain alignment that it can accommodate the future CCRFCD MPU regional flows. SHG noted that the regional facilities proposed west of US-95 and the regional culvert proposed under US-95 can practically be sized for the MPU flow; however, SHG and Mike Ross believed that designing the facilities located east of US-95 for the CCRFCD regional flows was unreasonable since the major confluences of the regional flows has not been constructed in Kyle Canyon Road and Moccasin Road, and is believed to be far in the future improvements. Instead Mike Ross proposed that the facility in Sheep Mountain, east of US-95, be constructed as a phased facility; where the facility is large enough to accommodate the flows required to protect the site but can be upsized in the future when the regional flows contribute to the facility. For example, the facility in Sheep Mountain can be upsized from 1 barrel to 3 barrels for conveyance of the regional flows. CLV felt the phasing solution was acceptable. All parties discussed the facilities that are considered the outfall from the proposed detention basin in Sheep Mountain Parkway would be publically maintained because the detention basin will be designated as a regional facility. CCRFCD raised concerns that it may not fund maintenance of the phased facility east of US-95 because it will not have the capacity to convey the full CCRFCD regional flow; however, Andrew discussed that he would have to verify its validity with Gale Fraser. However, CLV noted that any interim facilities that are not part of the infrastructure proposed by this study in Sheep Mountain to be constructed to protect the first phases of development, and are not considered permanent or underground conveyances, may be allowed by CLV and would be required to be privately maintained.
6	***1d: US-95 planned as a hydrologic cut-off*** – SHG discussed that the previous request from CLV will be satisfied and no onsite flow will cross US-95 in the ultimate condition. SHG noted that it has provided a local facility to extend from the future planned regional facility in US-95 to cut-off all onsite flow. CLV requested that all facilities along the US-95 corridor be designated as a regional facility for maintenance purposes, if possible. SHG agreed and acknowledged they will try to validate the request.
7	***1e: Future Master Plan Amendment (MPA)*** – CCRFCD discussed that they will not require the MPA to give concurrence on the master drainage study. However, CLV stated that they will require the MPA as a condition prior to issuing final approval on the master drainage study.
8	***1f: NV Energy approval of concept facilities and easements*** – Randy stated that CLV will need some sort of level of comfort that NV Energy will allow any drainage facilities in their access easements prior to conditional approval of the study. Mike stated that he will set-up a meeting with NV Energy to discuss the concept with the recommended concept drawing of facilities in an effort to receive acceptance from NV Energy. Mike requested that CLV join him in the meeting with NV Energy and CLV agreed to accompany him in this effort.
9	***2a: Assessment of Berm/Levee Diversion in offsite drainage area*** – CLV discussed that there may be a possibility of alluvial migration toward the site from the offsite area associated with the Kyle Canyon Detention Basin. CLV and CCRFCD discussed that at the master drainage study level, SHG can make assumptions regarding this issue and receive approval; however, it will be required to get addressed at the technical design of the site and the detention basin. SHG acknowledged that they will investigate the possibility of the alluvial migration impacting the site and if it is warranted will incorporate into the concept storage volume of the detention basin. SHG stated that the next submittal will include at least a discussion regarding the investigation of this issue and its opinion on its impacts to the site.
10	***2b: BLM approval of discharge at Moccasin*** – See discussion from Item 3.
11	***2c: Existing Upper Las Vegas Wash Detention Basin and Levee. Project impacts to these facilities*** – CCRFCD acknowledged that the downstream existing regional detention basin is shown to be undersized in the 2008 MPU; therefore, CLV and CCRFCD have requested that the master drainage study show the diversion to Moccasin proposed by the site does not result in the existing regional detention basin being undersized. If so, CLV and CCRFCD will require that the Kyle Canyon project to mitigate the situation by either re-grading the existing regional detention basin or upsizing the detention basin proposed onsite to reduce the flows. SHG agreed it will investigate the issue and will at least discuss its findings or provide additional analysis (if warranted) in the next submittal.
12	***3a & b: Sheep Mountain Parkway 500-ft to 350-ft in width (allowable width to provide flood control facilities, i.e. reservation of roadway)*** – CLV agreed that it could be used for drainage facilities if they can be considered permanent, i.e. no interim channels as previously proposed. Randy requested that the facility be shown along the northern edge of the Parkway alignment for purposes of the future roadway. See further discussion from Item 5.

Prepared By: Steve Jones, SHG

Please notify the preparer if you have any questions, concerns or additions to these minutes within 2 days. After 2 days the content of this document will be considered accurate and accepted as the final recordation.

Item:	Discussion:
13	***3c: Arroyo discharge into Sheep Mountain Parkway*** – CLV agreed that the arroyos could discharge into Sheep Mountain only if the flows were considered small. SHG agreed to this request, discussing that the detention basin cuts off the flows in the arroyos.
14	***4a: Detention Basins regional facilities and designed to regional standards*** – It was agreed in the meeting by all attending that the new location of the basin is acceptable to be designated as a regional facility and be eligible for public funding if constructed to regional standards. CCRFCD stated that even if the entire outfall facility isn't publically maintained, the detention basin will still be eligible for CCRFCD funds for public maintenance.
15	***4b: Detention Basins grading and discharge into arroyos*** – CLV requested that the detention basin only discharge small flows into the arroyos to satisfy any 404 permitting rules; however, align the main outfall facility into Iron Mountain Road which includes any low flow pipes, for ease of maintenance. SHG agreed and stated that they will plan for the design accordingly.
16	***5: 404 Permitting*** – Mike stated that an existing 404 permit had been done by the Focus project for the site but it had been expired and that it will not be renewed or re-introduced until construction begins on the site.
17	***6a & b: Major Crossing of US-95 by proposed regional culvert*** – It was agreed in the meeting by all attending that because the culvert crossing is designed for the CCRFCD regional flows and considered permanent that it is an acceptable facility.

Action Items:

Item:	Person:	Comments:
1	Mike Ross & CLV	Meet with NV Energy to discuss acceptance of the project to utilize their access easements for drainage facilities.
2	SHG	Address comments as discussed in these notes.

Prepared By: Steve Jones, SHG

Please notify the preparer if you have any questions, concerns or additions to these minutes within 2 days. After 2 days the content of this document will be considered accurate and accepted as the final recordation.

MASTER DRAINAGE STUDY
ADDENDUM NO. 3

Kyle Canyon

City of Las Vegas, Nevada

Job No.: WCR0902.003 & 004
Date: February 2012

Prepared By:
Slater Hanifan Group, Inc.
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Prepared For:
Carwin Advisors
8379 W. Sunset Road, Suite 150
Las Vegas, NV 89113
Phone: 702-269-0043



2/13/2012

Steve Jones, P.E.
NV Professional Engineer No. 19638

HYDROLOGIC CRITERIA AND DRAINAGE DESIGN MANUAL

DRAINAGE STUDY INFORMATION FORM

Name of Development: Kyle Canyon Master Drainage Study – Addendum #3 Date: February 2012

Location of Development:
a) Descriptive (Cross Streets): North/South: Hualapai Way
East/West: Iron Mountain Road
b) Section: 12 Township: 19 South Range: 59 East
Section: 6, 7 Township: 19 South Range: 60 East
c) APN: 125-06-101-001; 125-06-401-001; 125-06-501-001; 125-06-701-001; 125-07-101-005, 006; 125-07-201-001, 002; 125-07-301-001, 002; 125-07-401-001, 002; 125-07-501-005; 125-07-602-001, 003, 004, 005; 126-12-000-001

Name of Owner/Developer: Wachovia Bank / Carwin Advisors
Telephone No.: 702-269-0043 Fax No.: _____ E-mail Address: Michael.Ross@carwinadvisors.com
Address: 8379 W. Sunset Road, Suite 150; Las Vegas, NV 89113

Contact Person – Name: Steve Jones, P.E. Telephone No.: 702-284-5300
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Type of Land Development/Land Disturbance Process:

☐	Rezoning	☐	Subdivison Map	☐	Clearing and grading Only
☐	Parcel Map	☐	Planned Unit Development	☒	Other (Please specify below)
☐	Large Parcel Map	☐	Building Permit		Master Drainage Study

1. Total Owned Land Area: At Site: 1,662 +/- Acres Being Developed/Disturbed: All
2. Is a portion or all of the subject property located in a FEMA Flood Hazard Area? ☐ Yes** ☒ No
3. Is the property bordered or crossed by an existing or proposed Clark County Regional Flood Control District Master Planned Facility? ☒ Yes** ☐ No
4. Proposed type of development (Residential, Commercial, Etc.): Residential, Commercial, Schools, Parks, Roadways, Gaming, etc.
5. Approximate upstream land area which drains to the subject site: 6.1 Square Miles +/-
6. Has the site drainage been evaluated in the past? ☒ Yes** ☐ No If yes, please identify documentation: *Kyle Canyon Master Drainage Study and Updates*, GCW (CLV DS4091);
7. If known, please briefly identify the proposed discharge point(s) of runoff from the site: Intersections of Moccasin, Log Cabin, O'Hare, Iron Mountain, Brent and Horse along Fort Apache Road, Future Sheep Mountain Parkway alignment north of Moccasin, U.S. Highway 95 right-of-way
8. Briefly describe your proposed schedule for the subject project: ASAP



2/13/2012

Engineer's Seal

Local Entity File No.

Submit this form as part of the required drainage study to the local entity which has jurisdiction over The subject property. This form may provide sufficient information to serve as the Conceptual Drainage Study.

*Newly Required Field

**Review and concurrence of the Clark County Regional Flood Control District is required

Revision	Date

REFERENCE: STANDARD FORM 1

Updated 05/01/2008

SLATER HANIFAN GROUP
CONSULTING ENGINEERS & PLANNERS

WCR0902.003 & 004

February 13, 2012

Oh Sang Kwon, P.E. – Flood Control Project Engineer
City of Las Vegas Department of Public Works
731 S. Fourth Street
Las Vegas, Nevada 89101

Subject: Addendum No. 3 to the Master Drainage Study for Kyle Canyon (CLV # DS4420)

Dear Mr. Kwon:

The following are responses to comments contained in the November 17, 2011 review memorandum, regarding the above referenced project. A copy of the City of Las Vegas (CLV) comment letter has been provided in Appendix A of this submittal. The comments have been individually addressed as follows:

1. **Comment:** *Please note that the site layout (pods, land use, density, infrastructures, etc.) must be approved by City Council prior to final approval of the Master Drainage Study. If the site layout does not match the Master Drainage Study, an update to the Master Drainage Study must be submitted to address the changes;*

   Response: The site layout was approved by City Council on November 16, 2011. The master land use plan was approved as presented by this drainage study; therefore, no revisions are necessary.

2. **Comment:** *Please note that the traffic study must be approved prior to final approval of the Master Drainage Study. If the street layout does not match the Master Drainage Study, an update to the Master Drainage Study must be submitted to address the changes;*

   Response: Acknowledged.

3. **Comment:** *The Kyle Canyon Master Drainage Study is proposing to revise the hydrology and facility sizes identified in the Clark County Regional Flood Control District's (CCRFCD) 2008 Las Vegas Valley Flood Control Master Plan Update. A Master Plan Amendment (MPA) must be submitted to the City of Las Vegas for approval. The City of Las Vegas will coordinate the MPA submittal to CCRFCD for approval. The Master Developer will be responsible for preparing all submittals needed for CCRFCD along with any and all presentations;*

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Response: Acknowledged. Note that CCRFCD has acknowledged that they do not require the MPA in order to issue concurrence on the conditionally approved Master Drainage Study. However, per an August 18, 2011 meeting with CLV, the future MPA will be a condition of final approval of the Master Drainage Study from CLV.

4. **Comment:** *Please note that any future technical drainage study submittals that differ from the Master Drainage Study (i.e. changes in pods, infrastructure, flows, etc.) will require an update to the Master Drainage Study and this update must be approved by the City of Las Vegas Flood Control Section prior to final approval of technical drainage study;*

   Response: Acknowledged. Any significant changes to drainage patterns, pods, infrastructure or land use densities will be addressed by future update drainage studies.

5. **Comment:** *The proposed detention basins will require coordination with the State of Nevada, Division of Water Resources Dam Safety and will require the State's approval prior to permitting;*

   Response: Acknowledged.

6. **Comment:** *Please obtain necessary 404 permits from Army Corps of Engineers and provide a copy of the permit to Flood Control prior to issuance of the grading permit. The contact information for Army Corps of Engineers is listed below:*

   Patricia L. McQueary
   Chief, USACE St. George Regulatory Field Office
   U.S. Army Corps of Engineers
   321 North Mall Drive
   Suite L-101
   St. George, UT 84790

   (435) 986-3979 (Office)
   (435) 986-3981 (Fax)
   Patricia.L.McQueary@usace.army.mil;

   Response: Acknowledged. Similar to as discussed in the previous submittals, the previous 404 permitting for the Kyle Canyon site had expired on June 1, 2009; therefore future coordination with USACE will be required for the renewal of the expired permit and/or issuance of a new permit. It is noted that approval of a 404 permit is not required for approval of this conceptual study.

7. **Comment:** *Please note that the proposed 100-year flood protection facilities identified on Exhibit F must be constructed by the Master Developer as a part of the master planned infrastructure. Technical drainage studies are required for each phase of the infrastructure improvements. The technical drainage studies for the infrastructure improvements may be submitted with conditional approval of this Master Drainage Study. However, final approval for the Master Drainage Study must be obtained prior to conditional approval of the infrastructure drainage studies;*

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Response: Acknowledged.

8. **Comment:** *Technical drainage studies are required for each of the pods. The technical drainage studies for the pods may not be submitted until the conditional approval of the pertinent infrastructure drainage study is obtained. Final approval of the infrastructure drainage study must be obtained prior to conditional approval of the impacted pod drainage studies;*

   Response: Acknowledged.

9. **Comment:** *Building permits for the homes within the individual pods will not be issued until construction of the street and flood control infrastructure around the pod is substantially complete or interim protection is provided per the approved technical drainage study;*

   Response: Acknowledged.

10. **Comment:** *The site is adjacent to or crosses an existing or proposed Clark County Regional Flood Control District (CCRFCD) master planned facility. Therefore, CCRFCD concurrence is required prior to final acceptance of the Master Drainage Study;*

    Response: Acknowledged. The study will be submitted to CCRFCD after conditional approval is received from CLV.

11. **Comment:** *The site is adjacent to Clark County jurisdictional boundaries. The engineer must coordinate the Master Drainage Study with Clark County Department of Development Services (CCDDS) and incorporate any concerns for boundary conditions. CCDDS concurrence is required prior to final acceptance of the Master Drainage Study;*

    Response: Acknowledged. The study will be submitted to Clark County Public Works – Development Review after conditional approval is received from CLV.

12. **Comment:** *The project proposes to construct facilities and/or increase flows within Nevada Department of Transportation (NDOT) right-of-way. Therefore, NDOT concurrence is required prior to final approval of the Master Drainage Study;*

    Response: Acknowledged. The study will be submitted to NDOT after conditional approval is received from CLV.

13. **Comment:** *The project proposed to discharge flows onto and proposed facilities within U.S. Bureau of Land Management (BLM) property. Therefore, BLM concurrence is required prior to final approval of the Master Drainage Study;*

    Response: Acknowledged. The study will be submitted to BLM after conditional approval is received from CLV. Note that after performing research, BLM right-of-way grants currently exist for drainage purposes along the Moccasin alignment where the Kyle Canyon project proposes to discharge its flow onto BLM property.

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- BLM right-of-way grant N-78142 exists along the north 50-ft of Moccasin Road from Fort Apache Road to Cimarron Road. This existing right-of-way grant is intended to be utilized for placement of the interim levee required to protect downstream property from the project's proposed discharge at the intersection of Fort Apache and Moccasin.
- BLM right-of-way grant N-83860 exists for several locations where the Kyle Canyon project anticipates alignments of roadways, drainage, utilities, etc. Part of this existing right-of-way grant includes a large drainage outfall area (approx. 25 acres as Parcel G) at the northeast corner of the intersection of Fort Apache Road and Moccasin Road to be utilized for the proposed project discharge.

Both right-of-way grants identified above were granted to the City of Las Vegas in perpetuity and it appears that all required fees were previously paid by Kyle Acquisition Group. Copies of these existing BLM right-of-way grants have been included in this submittal's Appendix F for reference.

14. **Comment:** *Please note that the proposed berm/levee along Moccasin Road may require review and approval from Federal Emergency Management Agency (FEMA). The proposed berm/levee must be designed to meet the minimum requirements set by FEMA and CCRFCD;*

    Response: It has been noted that CLV and CCRFCD will require any berm/levee facility to be designed, by a future technical drainage study, to FEMA standards so that it would be certifiable by FEMA, if necessary in the future.

15. **Comment:** *Please note that all major culvert entrances will require debris basins to limit the amount of sediment and debris entering the storm drain facilities;*

    Response: Acknowledged. Design of these sediment control devices will be technically designed as necessary in the future.

16. **Comment:** *Coordinate with NV Energy regarding detention basins encroaching into NV Energy easement. Obtain NV Energy approval and obtain approval for any drainage easements;*

    Response: Coordination has been performed with NV Energy, including a meeting attended by SHG (Todd Steadham), Carwin Advisors (Mike Ross) and NV Energy (Kathy Cunningham and Sharon McShea). The concept of the Kyle Canyon master plan was presented inclusive of the project's concept usage of and adjacent to existing NV Energy easements. NV Energy found the concept acceptable in the meeting, and formal approvals will be processed upon completion of final design of any aspects of the project found to encroach into NV Energy easements.

17. **Comment:** *Please note that all detention basins must be designed per CCRFCD criteria including a low flow facility around the detention basin;*

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Response: Acknowledged. An 18-inch RCP low flow storm drain facility or other low flow conveyance will be provided at the bottom of the proposed detention basins in future technical design.

18. **Comment:** *Please note that all proposed interim facilities must be maintained by the master developer;*

    Response: Acknowledged. Any facilities considered interim that are not identified by this study as infrastructure facilities will be maintained by the master developer.

19. **Comment:** *Provide a legal description of the proposed detention basins prior to recordation of the parent final map;*

    Response: Acknowledged.

20. **Comment:** *Coordinate the proposed drainage facilities with Sheep Mountain Parkway project. Please contact Greg McDermott at 702-229-2143 to coordinate the proposed drainage facilities;*

    Response: Per the 10/25/10 meeting with CLV in lieu of Greg McDermott, coordination has been performed with Randy Fultz and coordination of proposed facilities will continue in the future.

21. **Comment:** *Provide a reference material for "Land Use Index Number" used in weighted curve number calculations;*

    Response: A land use matrix utilized to determine the curve numbers referenced from either the 2008 MPU or the CCRFCD Manual Table 602 in the composite curve number computations for the Kyle Canyon master plan has been included in Appendix C for reference. No revisions have been made to the composite curve number computations included in the previous submittal. Note that any curve number computations utilized for the "local" ultimate condition hydrologic analysis have been included in Appendix D.

22. **Comment:** *Provide an ultimate condition HEC-1 analysis for Kyle Canyon Master Plan Development;*

    Response: An additional "local" ultimate condition HEC-1 analysis has been prepared for the Kyle Canyon site, and the ultimate condition HEC-1 analysis included in the previous submittal has been renamed the "regional" ultimate condition for the site. The parameters for the "local" ultimate condition analysis is defined the same as the "regional" analysis; however, the only difference is that the onsite basins, U.S. Highway 95 basins and the necessary offsite basins have been divided smaller in a similar fashion as presented in the proposed condition. Refer to Exhibit M, included in Appendix B, for an illustration of the "local" ultimate condition drainage patterns and a summary of the flow rates.

    Exhibit H, included in Appendix B, has been revised to show the "local" ultimate condition basins and concentration points that contribute to each proposed, existing and future facility that is affected or impacted by the Kyle Canyon development. The ultimate

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condition flow rate conveyed in each facility has been summarized in comparison to the proposed condition flow rate on the exhibit, and the larger flow rate has been utilized to determine a conceptual size of the facility. Flowmaster computations for these ultimate condition facilities have been included in Appendix D.

In addition to evaluating the conceptual design of the proposed onsite facilities, the flow rates determined by the "local" ultimate condition HEC-1 analysis have also been assessed to show that the Kyle Canyon project is in conformance with the allowable flow rates at each of its discharge locations. The following table summarizes the comparison between the allowable flows established in previous submittals of this study versus the proposed condition and "local" ultimate condition flow rates for the Kyle Canyon development.

Comparison of Allowable Flows vs. Proposed Condition Flows vs. Ultimate Condition Flows					
	ALLOWABLE		SHG		
Location	Q_{100} (cfs)	Reference Material	$Q_{PROPOSED}$ (cfs)	$Q_{ULTIMATE}$ (cfs)	HEC-1 Node
Box Culvert approx. 1,300-ft north of Grand Canyon Drive / Grand Teton Drive	802	Centennial Point RCB Plans	777	777	CP26
Iron Mountain Road D/S of Fort Apache	235	CLV NWNS	118	118	IREAST
O'Hare Road D/S of Fort Apache	47	CLV NWNS	47	47	OHARE
Log Cabin Way D/S of Fort Apache	187	CLV NWNS	187	187	LOGCAB
Interim Levee @ Fort Apache Road / Moccasin Road	2,666	Previous Master Study Interim 1 Condition	2,618	N/A	CP43
Brent Lane D/S of Fort Apache	79	CLV NWNS	373	178	BRENT
Horse Drive D/S of Fort Apache	37	CLV NWNS	37	37	HORSE
Fort Apache Road D/S of Horse Drive	101	CLV NWNS	101	101	RACEL
U.S. Highway 95 Culvert 1	54	Previous Master Study Interim 1 Condition	45	N/A	DCHD1B
U.S. Highway 95 Culvert 1A	54	Previous Master Study Interim 1 Condition	45	N/A	DCHD1C
U.S. Highway 95 Culvert 2	75	Horse Drive Culvert Analysis	89	N/A	DCHD2B
U.S. Highway 95 Culvert 2A	100	Horse Drive Culvert Analysis	58	N/A	DCHD2C
U.S. Highway 95 Culvert 4	1,141	Horse Drive Culvert Analysis	68	N/A	DCHD4B
U.S. Highway 95 Culvert 4A	872	Horse Drive Culvert Analysis	89	N/A	DCHD4C

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Comparison of Allowable Flows vs. Proposed Condition Flows vs. Ultimate Condition Flows					
	ALLOWABLE		SHG		
Location	Q_{100} (cfs)	Reference Material	$Q_{PROPOSED}$ (cfs)	$Q_{ULTIMATE}$ (cfs)	HEC-1 Node
U.S. Highway 95 Culvert 5	330	Previous Master Study Interim 2 Condition	176	N/A	DCHD5B
U.S. Highway 95 Culvert 5A	153	Horse Drive Culvert Analysis	141	N/A	DCHD5C
U.S. Highway 95 Culvert 6	403	Horse Drive Culvert Analysis	260	N/A	DCHD6B
U.S. Highway 95 Culvert 6A	403	Horse Drive Culvert Analysis	304	N/A	DCHD6C
U.S. Highway 95 Culvert 8	66	Horse Drive Culvert Analysis	66	N/A	DVCUL8
U.S. Highway 95 Culvert 8A	66	Horse Drive Culvert Analysis	66	N/A	DIV8A
U.S. Highway 95 Culvert 9	1,008	Horse Drive Culvert Analysis	992	N/A	DVCUL9
U.S. Highway 95 Culvert 9A	256	Horse Drive Culvert Analysis	255	N/A	DIV9A
U.S. Highway 95 Culvert 10	18	Horse Drive Culvert Analysis	19	N/A	DCUL10
U.S. Highway 95 Culvert 10A	369	Previous Master Study Interim 1 Condition	371	N/A	DIV10A
U.S. Highway 95 Culvert 11	642	Previous Master Study Interim 1 Condition	310	N/A	DCUL11
U.S. Highway 95 Culvert 11A	1,160	Horse Drive Culvert Analysis	913	N/A	DIV11A
CCRFCD Facility LVMO 0000	12,709	2008 MPU	N/A	10,844	CP43
CCRFCD Facility CN95 0167	2,160	2008 MPU	N/A	2,332	95STH

Review of the above table shows that the proposed condition and ultimate condition flow rates produced by the proposed Kyle Canyon development are generally less than or equal to the allowable flows at each discharge location, with the exception of the following locations:

- **Brent Lane downstream of Fort Apache Road:** Although both proposed condition and ultimate condition flow rates exceed the CLV NWNS flow rate, the following table provides a comparison that has been made between the flow rates established in this study and the existing condition flow rate established in the previous GC Wallace Master Study.

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Comparison of Brent Lane Flow Rates			
CLV NWNS Q_{100}/Q_{10} (cfs)	Existing Q_{100}/Q_{10} (cfs)[1]	Proposed Q_{100}/Q_{10} (cfs)	Ultimate Q_{100}/Q_{10} (cfs)
79/0	1,088/738 = *CP22*	373/160 = *BRENT*	178/68 = *BRENT*
1 – Referenced from GC Wallace Master Drainage Study.			

Review of the above table shows that although the CLV NWNS flow is exceeded in Brent Lane, discharging east from Fort Apache Road, the proposed and ultimate condition flow rates do not exceed the existing condition flow rate. In fact, the flow rates established by this study result in a significant improvement from the existing condition flows for downstream development adjacent to Brent Lane, which is a result of proposed and future drainage facilities.

After discussion with CLV in previous meetings, the proposed condition flow rate is considered acceptable. However, after further investigation into existing grading, it has been determined that this study is unable to show that the ultimate condition discharge in Brent Lane conforms to the CLV NWNS flow rates as previously established. In order for Kyle Canyon to not exceed the CLV NWNS flow rates in Horse Drive and Fort Apache Road, the flow in Brent Lane must exceed the CLV NWNS flow rate. However, the flow rates in Brent Lane are far less than the existing condition as demonstrated in the table above. Note that as a comparison, the previous G.C. Wallace Master Drainage Study was approved with flow rates of 551/282 cfs (Q_{100}/Q_{10}) and 545/276 cfs in its Interim 1 and Interim 2 (Future) drainage conditions, which exceed this study's proposed and ultimate condition flow rates. The G.C. Wallace study showed that downstream development was not adversely impacted by its approved flow rates which are greater than this study's. Also note that the ultimate condition flow rate satisfies CCRFCD Manual street flow criteria. In conclusion, after a phone discussion with CLV on December 5, 2011 the proposed and ultimate flow rates in Brent Lane are considered acceptable.

- **U.S. Highway 95:** In the proposed condition, the series of existing culvert crossings under the highway function in a "network" to convey flow south and east to the Kyle Canyon East property. However, in the ultimate condition, U.S. Highway 95 acts as a hydrologic cut-off boundary. As a result of the flow routed south in the U.S. Highway 95 regional facility, the "local" ultimate condition flow in future CCRFCD regional facility CN95 0167 is shown to exceed the 2008 MPU allowable flow. Note that the existing facility in U.S. Highway 95 (constructed by the Horse Drive Interchange project) functions to maintain the "network" of flow splits in the interim condition, but has also been designed to convey the ultimate condition when the regional facility in the highway is extended south of Grand Teton Drive. The table below has been provided for further inspection of the ultimate condition flow rates conveyed by the existing and future MPU facility in U.S. Highway 95.

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Comparison of U.S. Highway 95 MPU Facility Flow Rates				
Location	**Design Q_{100} (cfs)[1]**	**2008 MPU Q_{100} (cfs)**	**Local $Q_{ULTIMATE}$ (cfs)**	**Regional $Q_{ULTIMATE}$ (cfs)**
Facility F-1, CCRFCD Facility CN95 0167	N/A	2,160	2,332 *= 95STH*	2,132 *= 95STH*
Facility E-18, CCRFCD Facility CN95 0333	329	333	352 *= CHD05B*	327 *= NW62-S*
Facility E-23, CCRFCD Facility CN95 0199	1,715	1,609	1,722 *= 95STH – CNW71-E*	1,522 *= 95STH – CNW71-E*
1 –Ultimate Condition flow rates shown on Horse Interchange Plans.				

The design flow rates for the existing U.S. Highway 95 MPU facility summarized in the table have been determined by the G.C. Wallace ultimate condition hydrologic analysis. After inspection of the G.C. Wallace ultimate condition HEC-1 analysis, it has been determined its drainage area contributing to Facility E-18 utilize a rainfall value of 2.77-inches in accordance with the McCarran Airport rainfall area; however, it has been determined that the drainage area is outside the McCarran Airport rainfall area and this study utilizes a rainfall value of 2.93-inches. Since this study shows that the drainage area contributing to Facility E-18 has not significantly increased from the G.C. Wallace study, it is believed that the difference in precipitation values causes the result of the increase to Facility E-18 established by this study. In addition, the "regional" ultimate condition flow rates produced by Kyle Canyon development are in conformance with the facility's existing design and future extension. Since the highway facility is considered a regional facility, it is considered more applicable to utilize the "regional" ultimate condition flow rates in comparison to show the Kyle Canyon development does not increase flow rates to the highway facility. Per a meeting with CLV on December 1, 2011, this is considered acceptable.

In addition, per the request of CLV in a December 1, 2011 meeting, the table below shows a comparison between the "local" ultimate condition flow rate at the downstream terminus of the facility versus the previously approved ultimate condition flow presented by G.C. Wallace. Note that facility CN95 0167 has not been constructed and is anticipated to be constructed to accommodate flow rates in conformance with this study.

Comparison of U.S. Highway 95 Facility Flow Rates – SHG vs. GCW		
Location	**SHG $Q_{ULTIMATE}$ (cfs)**	**GCW $Q_{ULTIMATE}$ (cfs)**
Facility F-1	2,332 *= 95STH*	2,039 *= CP26WEST*

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Review of the above table also shows that the "local" ultimate condition flow rate established in this study into the future CCRFCD facility F-1 at Grand Teton is larger than the previously approved G.C. Wallace flow rate. However, inspection of the G.C. Wallace ultimate condition hydrology shows the following major factors resulted in the flow rate difference:

a) G.C. Wallace referenced the 2002 MPU to estimate the offsite runoff contributing to the highway from south of Grand Teton Drive and SHG referenced the 2008 MPU to estimate the same runoff. The following table summarizes the difference in flow rates.

b) G.C. Wallace analyzed one (1) large basin OFFI for the offsite area contributing to U.S. Highway 95 bound by Grand Canyon, Grand Teton, Horse Drive and the highway. Whereas, SHG divided OFF1 into the smaller basins utilized in the proposed condition analysis and only changed curve numbers as necessary to reflect development. The following table summarizes the difference in flow rates.

In conclusion, although the results of the "local" ultimate condition HEC-1 analysis shows increase in flow to U.S. Highway 95, it has been determined that this study's ultimate condition does not adversely impact the regional facilities in the highway.

Comparison of Flow Rate Differences – SHG vs. GCW		
SHG $Q_{ULTIMATE}$ (cfs)	GCW $Q_{ULTIMATE}$ (cfs)	SHG $Q_{ULTIMATE}$ – GCW $Q_{ULTIMATE}$ (cfs)
610 = *CNW71-E*	401 = *CNW71-C*	+209
384 = *OFF17A + OFF17B + CENGCA + OFF21B + OFF23 + OFFU*	319 = *OFFI*	+65

Additionally, note that the discharge at the intersection of Moccasin Road and Fort Apache Road (Concentration Point CP43) has been evaluated in both the proposed and ultimate conditions. In both conditions, the discharge flow rates are less than the allowable flow rates. Note that the ultimate condition flow rate is significantly less because the proposed detention basins are considered permanent features in comparison to the 2008 MPU assumed full conveyance of the offsite flow without detention routing.

All necessary analyses and computations regarding the additional "local" ultimate drainage condition described above have been included in Appendix D. Additionally reference material from the 2008 MPU, the previously approved G.C. Wallace Master Drainage Study for Kyle Canyon and the Horse Interchange plans utilized in the flow comparison summaries above has been included in Appendix D.

23. **Comment:** *Provide an explanation why the ultimate condition flow on Iron Mountain Road is greater than the interim condition flow. Also does the ultimate condition flow match with the Northwest Neighborhood Study?;*

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Response: The proposed and ultimate condition flow rates in Iron Mountain Road that discharge east from the Kyle Canyon property at Fort Apache Road have been revised to match. The revised flow rate of 118/98 cfs (Q_{100}/Q_{10}) is totaled by maximizing the existing storm drain Facility E-54 which had been designed to convey a flow of 98 cfs and maximizing the Iron Mountain street capacity of 20 cfs established in the previous submittal. The following table shows that the revised Iron Mountain discharge is less than the CLV NWNS flow rate; therefore, considered acceptable.

Iron Mountain Discharge from Kyle Canyon East		
HEC-1 Node	SHG Q_{100}/Q_{10} (cfs)	CLV NWNS Q_{100}/Q_{10} (cfs)
IREAST	118/98	235/98

The proposed condition and ultimate condition HEC-1 models and exhibits have been revised to accommodate the revision to the Iron Mountain flow and included in the Appendix D and E. The conceptual designs of the proposed facilities in Fort Apache Road have been re-assessed to accommodate the revised flow.

Note that the revised flow rate discharging from Iron Mountain Road has been incorporated in the evaluation of flow discussed in the Response to Comment No. 22. However, the assessment of this project's impacts to the Upper Las Vegas Detention Basin included in the previous submittal has not been revised. The revised flow discharging from Kyle Canyon at Iron Mountain Road (118 cfs) is greater than the previous submittal (80 cfs); thus, the flow diverted toward the Upper Las Vegas Wash Detention Basin is now less than shown in the previous submittal. The previous submittal's assessment had shown that the project does not result in adverse impacts or trigger any modification required to increase the required volume of the Upper Las Vegas Wash Detention Basin. Therefore, the results from the previous submittal's assessment of the Upper Las Vegas Wash Detention Basin remain valid.

24. **Comment:** *In Exhibit E, flow summary for Basin HUAL2B does not match with HEC-1. Revise accordingly;*

Response: The 100-year and 10-year flow rates generated by Basin HUAL2B reported in the summary tables on Exhibit F and Exhibit M have been revised and included in Appendix B to match what is shown in the HEC-1 analyses.

25. **Comment:** *Address the following comments regarding Exhibit F:*
    a. *Verify the Q100 flow for Facility ID P69AW;*
    b. *Show FTNOR, R2FTLC and RSHEPA on the exhibit;*
    c. *Consider adding additional concentration points;*

Response: The following regard Exhibit F:

a. The flow rate conveyed in Facility P69AW has been revised to 476 cfs to match the contributing basin(s)/concentration point(s). The conceptual facility remains a 6-ft wide by 5-ft high RCB. Refer to the revised Exhibit F, included in Appendix B.

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b. The requested diversion cards are now shown on the exhibit for location purposes. Refer to the revised Exhibit F, included in Appendix B.
c. Concentration points have only been placed at major intersections or other key necessary locations for facility sizing. Additional concentration points would likely result in clarity issues on the exhibits for understanding purposes. "Dummy" concentration points have been placed in the HEC-1 analyses in a manner that the model adds basins and concentration points correctly. Therefore, additional concentration points have not been added to the exhibits or the HEC-1 models.

If you have any questions or require additional information, please do not hesitate to contact us at 284-5300.

Respectfully Submitted,

SLATER HANIFAN GROUP

Steve Jones, P.E.
Assistant Project Manager - Flood Control Division

PROFESSIONAL ENGINEER-STATE OF NEVADA
STEPHEN M. JONES
EXP. 6-30-13
CIVIL
No. 019638

2/13/2012

pc: Todd Steadham, P.E. SHG
Mark Failla, P.E., CFM SHG
Michael Ross, P.E. Carwin Advisors

5740 S. Arville Street #216, Las Vegas, NV 89118 ph (702) 284-5300 fax (702) 284-5399

APPENDIX CONTENTS

Appendix A – 11/17/2011 CLV Comments

Appendix B – Revised Drainage Exhibits
- a) Exhibit E – Proposed Condition Drainage Map
- b) Exhibit F – Proposed Condition Flood Control Facilities Map
- c) Exhibit G – Regional Ultimate Condition Drainage Map
- d) Exhibit H – Ultimate Condition Flood Control Facilities Map
- e) Exhibit J – CCRFCD Regional Facilities Map
- f) Exhibit M – Local Ultimate Condition Drainage Map

Appendix C – Response to Comment No. 21
(Land Use Index Reference for Composite Curve Number Calculations)

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("Local" Ultimate Condition HEC-1 Analysis)
- a) Precipitation Data for Area Contirbuting to CHD05B
- b) Standard Form 4 Computations for Local Ultimate Condition Onsite & Offsite Basins
- c) "Local" Ultimate Condition SDN3 Storm HEC-1 Analysis
- d) "Local" Ultimate Condition SDN5 Storm HEC-1 Analysis
- e) Conceptual Flood Control Facility Hydraulic Computations (Designed for Ultimate Condition Flows)
- f) Brent Lane Street Flow Computations
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- i) Reference Material from G.C. Wallace Master Drianage Study
  - (1) Existing Condition
  - (2) Ultimate Condition
  - (3) 2002 MPU Hydrology
  - (4) Brent Lane Flow Excerpts
- j) Reference Material from Horse Interchange Storm Drain

Appendix E – Response to Comment No. 23
(Iron Mountain Road Flow)
- a) Proposed Condition SDN3 Storm HEC-1 Analysis
- b) Conceptual Flood Control Facility Hydraulic Computations (Revised Fort Apache Road Facilities)
- c) Street Flow Capacities Exhibit (Referenced from Addendum No. 2)
- d) Reference Material from CLV Northwest Neighborhood Study (Allowable Discharge at Iron Mountain Road)

Appendix F – Response to Comment No. 13
(Existing BLM Right-of-Way Grants)

5740 S. Arville Street #216, Las Vegas, NV 89118 ph (702) 284-5300 fax (702) 284-5399

APPENDIX A

11/17/2011 CLV Comments Memorandum

CITY OF LAS VEGAS INTER-OFFICE MEMORANDUM			DATE: November 17, 2011
TO: Land Development Services Department of Public Works			FROM: Oh Sang Kwon, P.E. Flood Control Department of Public Works
SUBJECT:	Drainage Study for:		COPIES TO:
Kyle Canyon Master Drainage Study			Slater Hanifan Group
Cross Streets:	Fort Apache Road & Moccasin Road		Wachovia Bank/Carwin Advisors
File Number:	F:\Depot\DSMemos\DS4420C.doc		Bart Anderson, P.E., DevCo
Parcel Number:	125-06-001-001		Randy Fultz
Zoning Action:			CCDDS, CCRFCD
FEMA Flood Zone	YES	NO X	NDOT, NV Energy
Proposed Storm Drain	YES X	NO	PB America, Inc.

HISTORY	DATE RECEIVED	DATE REVIEWED	COMMENTS	REVIEW FEES	FEES PAID Transaction #
1st Submittal	6/22/2010	7/13/2010	Not Approved	$1000.00	147216: $1000
2nd Submittal	9/17/2010	10/4/2010	Not Approved	$400.00	153788: $400
3rd Submittal	10/15/2011	11/14/2011	See Below	$400.00	153788: $400
			TOTAL FEES (LDDRS):	$1400.00	----

REMARKS:

Update to original Kyle Canyon Master Drainage Study (DS4091). Site layout has been changed.

The Master Drainage Study for the subject project has been reviewed and:

	is approved subject to conformance to all City standards and the following conditions:
X	must be resubmitted or supplemented including the following:
	is conditionally approved subject to Clark County Regional Flood Control District concurrence.
	is conditionally approved subject to Clark County Department of Development Service concurrence.
	is conditionally approved subject to Nevada Department of Transportation concurrence.

1. Please note that the site layout (pods, land use, density, infrastructures, etc.) must be approved by City Council prior to final approval of the Master Drainage Study. If the site layout does not match the Master Drainage Study, an update to the Master Drainage Study must be submitted to address the changes.
2. Please note that the traffic study must be approved prior to final approval of the Master Drainage Study. If the street layout does not match the Master Drainage study, an update to the Master Drainage Study must be submitted to address the changes.
3. The Kyle Canyon Master Drainage Study is proposing to revise the hydrology and facilities indentified in the Clark County Regional Flood Control District's (CCRFCD) 2008 Las Vegas Valley Flood Control Master Plan Update. A Master Plan Amendment (MPA) must be submitted to the City of Las Vegas for approval. The City of Las Vegas will coordinate the MPA submittal to CCRFCD for

approval. The Master Developer will be responsible for preparing all submittals needed for CCRFCD along with any and all presentations.

4. Please note that any future technical drainage study submittals that differ from the Master Drainage Study (ie. Changes in pods, infrastructure, flows etc.) will require an update to the Master Drainage Study and this update must be approved by the City of Las Vegas Flood Control Section prior to final approval of technical drainage study.
5. The proposed detention basins will require coordination with the State of Nevada, Division of Water Resources Dam Safety and will require the State's approval prior to permitting.
6. Please obtain necessary 404 permits from Army Corps of Engineers and provide a copy of the permit to Flood Control prior to issuance of the grading permit. The contact information for Army Corps of Engineers is listed below:

   Patricia L. McQueary
   Chief, USACE S. George Regulatory Office
   US Army Corps of Engineers
   321 North Mall Drive
   Suite L-101
   St. George, UT 84790

   (435) 986-3979 (Office)
   (435) 986-3981 (FAX)
   Patricia.L.McQueary@usace.army.mil

7. Please note that the proposed 100-year flood protection facilities identified on Exhibit F must be constructed by the Master Developer as a part of the master planned infrastructure. Technical drainage studies are required for each phase of the master planned infrastructure improvements. The technical drainage studies for the infrastructure improvements may be submitted with conditional approval of this Master Drainage Study. However, final approval for the Master Drainage Study must be obtained prior to conditional approval of the infrastructure drainage studies.
8. Technical drainage studies are required for each of the POD's. The technical drainage studies for the POD's may not be submitted until the conditional approval of the pertinent infrastructure drainage study is obtained. Final approval for the infrastructure drainage study must be obtained prior to conditional approval of the impacted POD drainage studies.
9. Building permits for the homes within the individual POD's will not be issued until construction of the street and flood control infrastructure around the POD is substantially complete or interim protection is provided per the approved technical drainage study.
10. The site is adjacent to or crosses an existing or proposed Clark County Regional Flood Control District (CCRFCD) master planned facility. Therefore, CCRFCD concurrence is required prior to final approval of the Master Drainage Study.
11. The site is adjacent to Clark County jurisdictional boundaries. The engineer must coordinate the Master Drainage Study with Clark County Department of Development Services (CCDDS) and incorporate any concerns for boundary conditions. CCDDS concurrence is required prior to final acceptance of the Master Drainage Study.
12. The project proposed to construct facilities and/or increase flows within Nevada Department of Transportation (NDOT) right-of-way. Therefore, NDOT concurrence is required prior to final approval of the Master Drainage Study.
13. The project proposed to discharge flows onto and proposed facilities within U.S. Bureau of Land Management (BLM) property. Therefore, BLM concurrence is required prior to final approval of the Master Drainage Study.

14. Please note that the proposed berm/levee along Moccasin Road may require review and approval from Federal Emergency Management Agency (FEMA) in the future. The proposed berm/levee must be designed to meet the minimum requirements set by FEMA and CCRFCD.
15. Please note that the all major culvert entrances will require debris basins to limit the amount of sediment and debris entering the storm drain facilities.
16. Coordinate with NV Energy regarding Detention basins encroaching into NV Energy easement. Obtain NV Energy approval and obtain approval for any drainage easements.
17. Please note that all detention basins must be designed per CCRFCD criteria including a low flow facility around the detention basin.
18. Please note that all proposed interim facilities must be maintained by the master developer.
19. Provide a legal description of the proposed detention basins prior to recordation of the parent final map.
20. Coordinate the proposed drainage facilities with Sheep Mountain Parkway project. Please contact Greg McDermott at 702-229-2143 to coordinate the proposed drainage facilities.
21. Provide a reference material for "Land Use Index Number" used in weighted curve number calculations.
22. Provide an ultimate condition HEC-1 analysis for Kyle Canyon Master Plan Development.
23. Provide an explanation why the ultimate condition flow on Iron Mountain Road is greater than the interim condition flow. Also, does the ultimate condition flow match with Northwest Neighborhood Study?
24. In Exhibit E, flow summary for basin HUAL2B does not match with HEC-1. Revise accordingly.
25. Address the following comments regarding Exhibit F:
    a. Verify the Q100 flow for facility ID P69AW.
    b. Show FTNOR, R2FTLC, and RSHEPA on the exhibit.
    c. Consider adding additional concentration points.

NOTE:

In an effort to increase administrative efficiency, the City of Las Vegas Public Works Department requires all soil reports, drainage studies and traffic impact analysis submittals to be accompanied by an electronic copy of the submittal. Electronic documents must be submitted with one original hard copy of the study. Electronic documents should be on a universal computer-readable digital output replicating your submittal to be used for archival or display purposes. This may be more than one file if necessary. An Indexed Portable Document Format (PDF) or Print Ready CAD file formats with a minimum of 300dpi are the desired formats, but provided it is a high quality digitized replication of the submittal, other formats may be acceptable. If figures are in color, they must be scanned in color and saved as a separate file. The new submittal requirement is effective on July 1, 2011. If there are any questions regarding these new requirements, please contact Oh Sang Kwon in the Flood Section at (702) 229-2177 or Rick Schroder in Traffic Engineering at (702) 229-6327.

Any future changes to the proposed design (or design assumptions) as outlined in the approved master drainage study and attached preliminary grading plan which affect drainage must be addressed in a Drainage Study Amendment and accepted by the *City of Las Vegas Flood Control Section*. Additionally, conditional acceptance of a drainage study is valid for a period of one (1) year. If the proposed construction has not been completed in that time period, the *City of Las Vegas* reserves the right to require additional conditions and/or submission and acceptance of a complete drainage study update prior to further construction of a project.

Please be advised that all land surface area disturbances over 1 acre or any area adjacent to a water way must submit to the Nevada Division of Environmental Protection a "Notice of Intent" to discharge that certifies a stormwater pollution prevention plan has been developed and is maintained on site; for inclusion in the Stormwater General Permit No. NVR100000. A phased construction unit in a contiguous subdivision is considered under construction until all stripped or disturbed surface areas have been covered by paving, building construction or planting. For more information, including forms and applications see http://ndep.nv.gov/bwpc/storm01.htm or call (775) 687-9429.

END OF REMARKS
osk

T/R/S: T19S/R60E/6 & 7
AREA G-6, 7, & F-12

LAS VEGAS CITY COUNCIL

CAROLYN G. GOODMAN
MAYOR

STAVROS S. ANTHONY
MAYOR PRO TEM

STEVE WOLFSON
LOIS TARKANIAN
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RICKI Y. BARLOW
BOB COFFIN

ELIZABETH N. FRETWELL
CITY MANAGER

PUBLIC WORKS DIRECTOR
JORGE CERVANTES
P.E., P.T.O.E.

FAX COVER SHEET



City of Las Vegas Engineering Planning

333 N Rancho Drive, Las Vegas, NV 89106,
Phone (702) 229-6541, Fax (702) 382-8551

DATE: 11-17-11

TO: steve Jones, P.E.
284-5399

FROM: oh sang kwon

SUBJECT: Kyle Canyon Master Drainage study

Review comment

NUMBER OF PAGES: 5
(Including cover sheet)

CITY OF LAS VEGAS
400 STEWART AVENUE
LAS VEGAS, NEVADA 89101

VOICE 702.229.6011
TTY 702.386.9108
www.lasvegasnevada.gov

APPENDIX B

Revised Drainage Exhibits

Exhibit E – Proposed Condition Drainage Map
Exhibit F – Proposed Condition Flood Control Facilities Map
Exhibit G – Regional Ultimate Condition Drainage Map
Exhibit H – Ultimate Condition Flood Control Facilities Map
Exhibit J – CCRFCD Regional Facilities Map
Exhibit M – Local Ultimate Condition Drainage Map

APPENDIX C

Response to Comment No. 21

Land Use Index Reference for Composite Curve Number Calculations

Proposed & Local Ultimate Condition Land Use

Land Use Index Number	Land Use Type	Land Use Curve Number	Additional Notes
1	Streets & Roadway	Impervious Areas	
2	Flood Control/Utility	Newly Graded Areas	
3	Open Space	Natural Desert Landscaping	
4	Power Easements	Desert Shrub - Poor Condition	
5	Arroyos	Desert Shrub - Poor Condition	
6	Parks	Open Space - Fair Condition	
7	Schools	50% Impervious Areas 50% Open Space - Fair Condition	
8	Residential "Low"	8,000 Square Foot Lots	5.49 units/acre 8,000 sq ft lots
9	Residential "Medium Low"	Commercial*	8.49 units/acre 5,130 sq ft lots
10	Residential "Medium Low-Attached"	Commercial*	12.49 units/acre 3,500 sq ft lots
11	Blended Use Zone	Commercial	
12	General Commercial	Commercial	
13	Gaming	Commercial	
14	Sheep Mtn Pkwy	Desert Shrub - Poor Condition	Undeveloped
15	Offsite	Desert Shrub - Poor Condition	Undeveloped

* Lots are less than 6,000 square feet; therefore a commercial curve number is used.

Regional Ultimate Condition Land Use

Land Use Index Number	Land Use Type	Land Use Curve Number	Additional Notes
Drought Ordinance Not Applied			
1	Undeveloped Land, Open Desert	Per CCRFCD 2008 MPU	Ref. CCRFCD 2008 MPU
2	Parks, Golf Course	Per CCRFCD 2008 MPU	Ref. CCRFCD 2008 MPU
3	Rural, 0.5-1 units per acre	Per CCRFCD 2008 MPU	Ref. CCRFCD 2008 MPU
4	Low-Density Residential, 1-2 units per acre	Per CCRFCD 2008 MPU	Ref. CCRFCD 2008 MPU
5	Medium-Density Residential, 2-4 units per acre	Per CCRFCD 2008 MPU	Ref. CCRFCD 2008 MPU
6	High-Density Residential, 4-8 units per acre	Per CCRFCD 2008 MPU	Ref. CCRFCD 2008 MPU
7	Public Facility and Residential, 8-12 units per acre	Per CCRFCD 2008 MPU	Ref. CCRFCD 2008 MPU
8	Very High-Density Residential, 12 units per acre or more	Per CCRFCD 2008 MPU	Ref. CCRFCD 2008 MPU
9	Commercial, Retail, Casino, High Rise Condominiums	Per CCRFCD 2008 MPU	Ref. CCRFCD 2008 MPU
10	Light Industrial	Per CCRFCD 2008 MPU	Ref. CCRFCD 2008 MPU
11	Heavy Industrial	Per CCRFCD 2008 MPU	Ref. CCRFCD 2008 MPU
12	Schools	Per CCRFCD 2008 MPU	Ref. CCRFCD 2008 MPU
13	Lakes	Per CCRFCD 2008 MPU	Ref. CCRFCD 2008 MPU
Drought Ordinance Applied			
14	Low-Density Residential, 1-2 units per acre	Per CCRFCD 2008 MPU	Ref. CCRFCD 2008 MPU
15	Medium-Density Residential, 2-4 units per acre	Per CCRFCD 2008 MPU	Ref. CCRFCD 2008 MPU
16	High-Density Residential, 4-8 units per acre	Per CCRFCD 2008 MPU	Ref. CCRFCD 2008 MPU
17	Public Facility and Residential, 8-12 units per acre	Per CCRFCD 2008 MPU	Ref. CCRFCD 2008 MPU
18	Very High-Density Residential, 12 units per acre or more	Per CCRFCD 2008 MPU	Ref. CCRFCD 2008 MPU
19	Commercial, Retail, Casino, High Rise Condominiums	Per CCRFCD 2008 MPU	Ref. CCRFCD 2008 MPU
20	Light Industrial	Per CCRFCD 2008 MPU	Ref. CCRFCD 2008 MPU
21	Heavy Industrial	Per CCRFCD 2008 MPU	Ref. CCRFCD 2008 MPU
22	Schools	Per CCRFCD 2008 MPU	Ref. CCRFCD 2008 MPU
Kyle Canyon Onsite			
23	Streets & Roadway	Impervious Areas	
24	Flood Control/Utility	Newly Graded Areas	
25	Open Space	Natural Desert Landscaping	
26	Power Easements	Desert Shrub - Poor Condition	
27	Arroyos	Desert Shrub - Poor Condition	
28	Parks	Open Space - Fair Condition	
29	Schools	50% Impervious Areas 50% Open Space - Fair Condition	
30	Residential "Low"	8,000 Square Foot Lots	5.49 units/acre 8,000 sq ft lots
31	Residential "Medium Low"	Commercial*	8.49 units/acre 5,130 sq ft lots
32	Residential "Medium Low-Attached"	Commercial*	12.49 units/acre 3,500 sq ft lots
33	Blended Use Zone	Commercial	
34	General Commercial	Commercial	
35	Gaming	Commercial	
36	Sheep MT Pkwy	60% Impervious Area 40% Desert Landscaping	
37	Offsite	Desert Shrub - Poor Condition	Undeveloped

* Lots are less than 6,000 square feet; therefore a commercial curve number is used.

APPENDIX D

Response to Comment No. 22

"Local" Ultimate Condition HEC-1 Analysis

Precipitation Data for Area Contributing to CHD05B

APPENDIX CONTENTS

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  - (3) 2002 MPU Hydrology
  - (4) Brent Lane Flow Excerpts
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(Iron Mountain Road Flow)
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- c) Street Flow Capacities Exhibit (Referenced from Addendum No. 2)
- d) Reference Material from CLV Northwest Neighborhood Study (Allowable Discharge at Iron Mountain Road)

Appendix F – Response to Comment No. 16
(NV Energy Coordination Summary)

ASSESSOR'S PARCELS - CLARK CO., NV.
Michele W. Shafe - Assessor

NOTES

This map is for assessment use only and does NOT represent a survey.

No liability is assumed for the accuracy of the data deliniated herein. Information on roads and other non-assessed parcels may be obtained from the Road Document Listing in the Assessor's Office.

This map is compiled from official records, including surveys and deeds, but only contains the information required for assessment. See the recorded documents for more detailed legal information.

USE THIS SCALE(FEET) WHEN MAP REDUCED FROM 11X17 ORIGINAL

0 100 200 400 600 800

MAP LEGEND

- PARCEL BOUNDARY
- SUB BOUNDARY
- PM/LD BOUNDARY
- ROAD EASEMENT
- MATCH / LEADER LINE
- HISTORIC LOT LINE
- HISTORIC SUB BOUNDARY
- HISTORIC PM/LD BOUNDARY
- SECTION LINE
- CONDOMINIUM UNIT
- AIR SPACE PCL
- RIGHT OF WAY PCL
- SUB-SURFACE PCL
- *001* ROAD PARCEL NUMBER
- 001 PARCEL NUMER
- 1.00 ACREAGE
- 202 PARCEL SUB/SEQ NUMBER
- PB 24-45 PLAT RECORDING NUMBER
- 5 BLOCK NUMBER
- 5 LOT NUMBER
- GL5 GOV. LOT NUMBER

BOOK T19S R60E

089	088	087	086
098	099	100	101
127	126	125	124
136	137	138	139

SEC. 7

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

MAP N 2 NW 4

8	4	8	4
5	1	5	1
6	2	6	2
7	3	7	3
8	4	8	4
5	1	5	1

125-07-1

CLARK COUNTY ASSESSOR MAPPING DIVISION NEVADA

Scale: 1" = 200 ' Rev: 02/09/2011

IRON MOUNTAIN RD

GL17

005
0.06

004
0.13

PT 1

PT 2

005
11.57

186.26

245.91

1002.2

310.86

PT 1

608.3

001

U.S. 95

PT 2

101

1282.68

PM 114-22

006
63.66

CHD058

PT 2

539.89

PM 10

PT 125-07

PT 1

628.54

TAX DIST 200

SLATER HANIFAN GROUP
CONSULTING ENGINEERS & PLANNERS

Precipitation Worksheet
Rainfall Data and Computations

Project: 1 Master Drainage Study - Addendum No. 3
Date: 12/8/2011

Data: **Reference**

Project is located in: Township: 19 S. Range: 60 E. Section: 7 — APN Map

Figure 513*

Rainfall Depth-Duration-Frequency 10-Year, 6-Hour: 1.3 inches — Figure 503*

Rainfall Depth-Duration-Frequency 100-Year, 6-Hour: 2.05 inches — Figure 506*

Precipitation Adjustment Ratios: — Table 501*

10-Year: 1.24 — Table 501*
100-Year: 1.43

Six Hour Depth Area Reduction Factors (DARF):
Area (gross acres): 10.0 = 0.0156 square miles — Table 502*
DARF = 1.00

Calculations:

P_{10} = 1.61 10-Year Precipitation (in)
P_{100} = 2.93 100-Year Precipitation (in)

P10/P100= 0.55 HEC-1 Multiple Ratio Value

Equations:

P=(Rainfall)*(Precipitation Adjustment Ratio)*(Depth Area Reduction Factor)

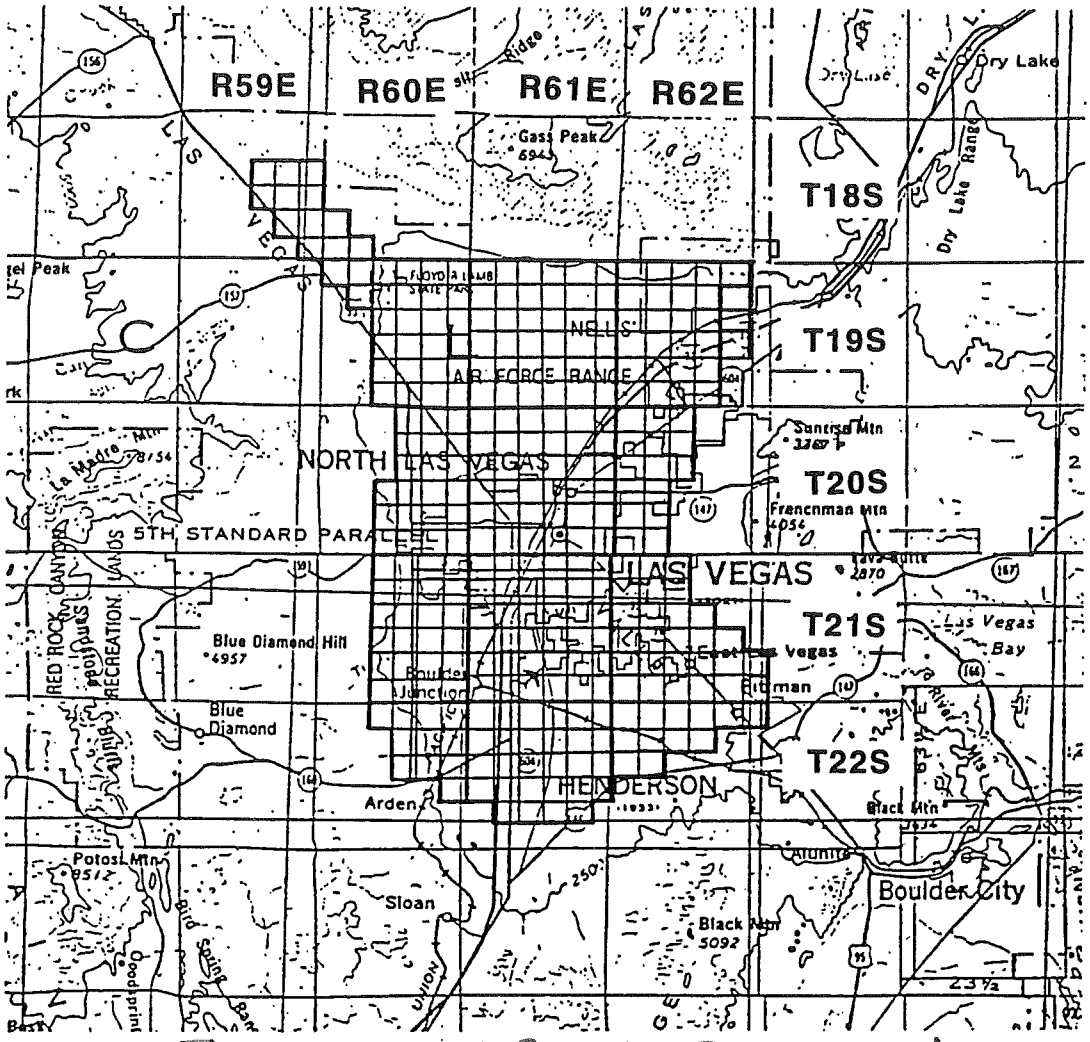
Comments:

Kyle Canyon West Basins, East of Hualapai and South of Iron Mountain
Kyle Canyon East Basins, South of Iron Mountain

* Equations taken from the Clark County Regional Flood Control District - Hydrologic Criteria and Drainage Design Manual

5740 S. Arville St., Suite 216 - Las Vegas, NV 89118
Ph. 702-284-5300 - Fx. 702-284-5399

McCARRAN AIRPORT RAINFALL AREA



SECTION 7 NOT IN McCARRAN RAINFALL AREA

TOWNSHIP	RANGE	SECTIONS	TOWNSHIP	RANGE	SECTIONS
18 South	59 East	13-15,22-26,36	20 South	62 East	4-9,16-20,29-32
18 South	60 East	30-32	21 South	60 East	1-4,9-16,21-28,33-36
19 South	60 East	1-6,8-16,21-28,33-36	21 South	61 East	ALL SECTIONS
19 South	61 East	ALL SECTIONS	21 South	62 East	4-9,15-23, 25-36
19 South	62 East	2-11,14-23,27-34	22 South	60 East	1-4,10-15,24
20 South	60 East	1-3,10-15,21-28,33-36	22 South	61 East	1-24,26-29
20 South	61 East	ALL SECTIONS	22 South	62 East	1-10,17-18

Notes:
1. Refer to Table 505 and Figure 516 Depth-Duration- Frequency values in the McCarran Airport Rainfall Area.
2. Refer to Table 506 and Figure 517 for Time-Intensity-Frequency values on the McCarran Airport Rainfall Area.

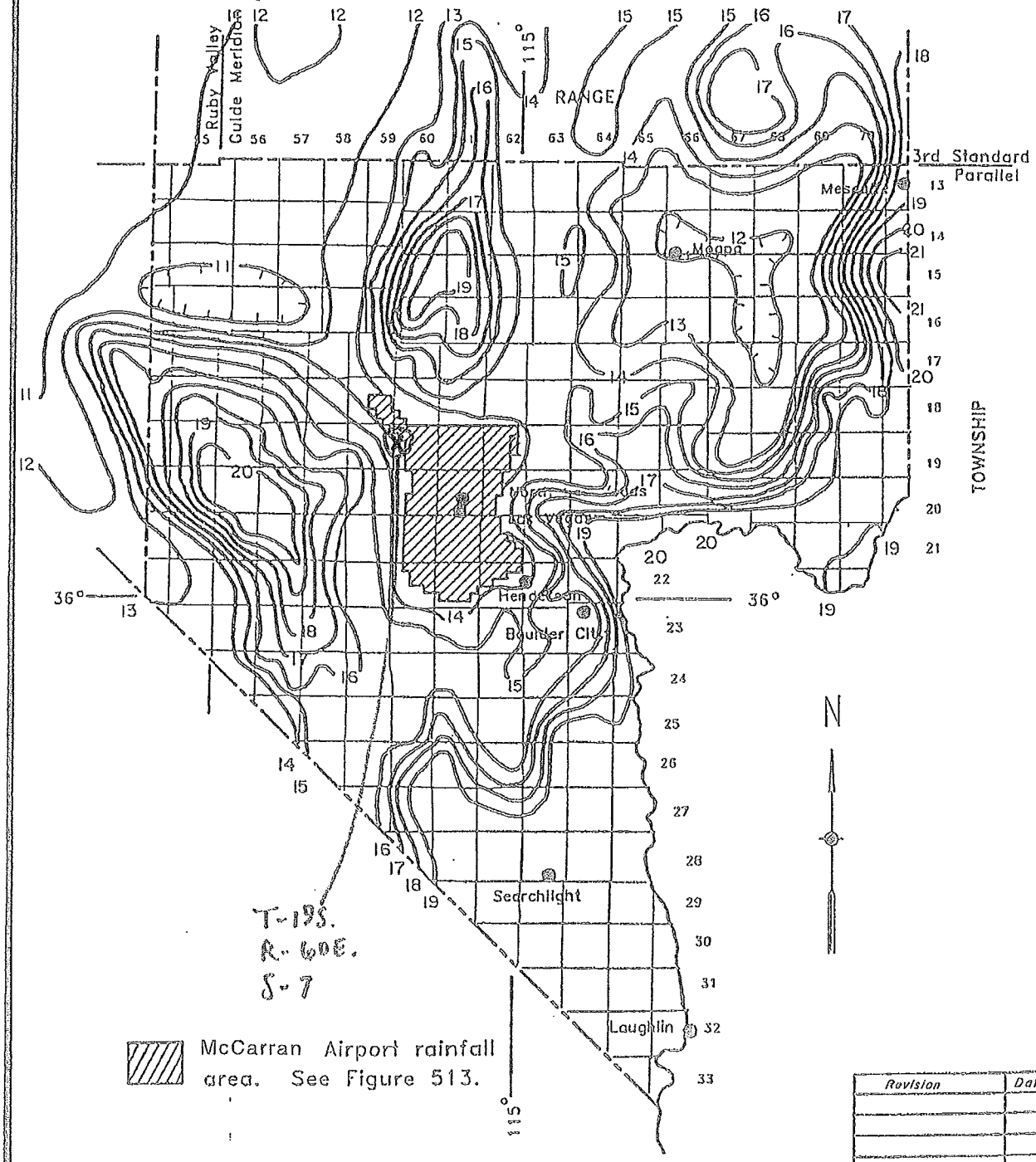
Revision	Date

WRC ENGINEERING

REFERENCE:
USACE, Los Angeles District, 1988

FIGURE 513

RAINFALL DEPTH-DURATION-FREQUENCY
10-YEAR, 6-HOUR
(DEPTHS IN TENTHS OF INCHES)



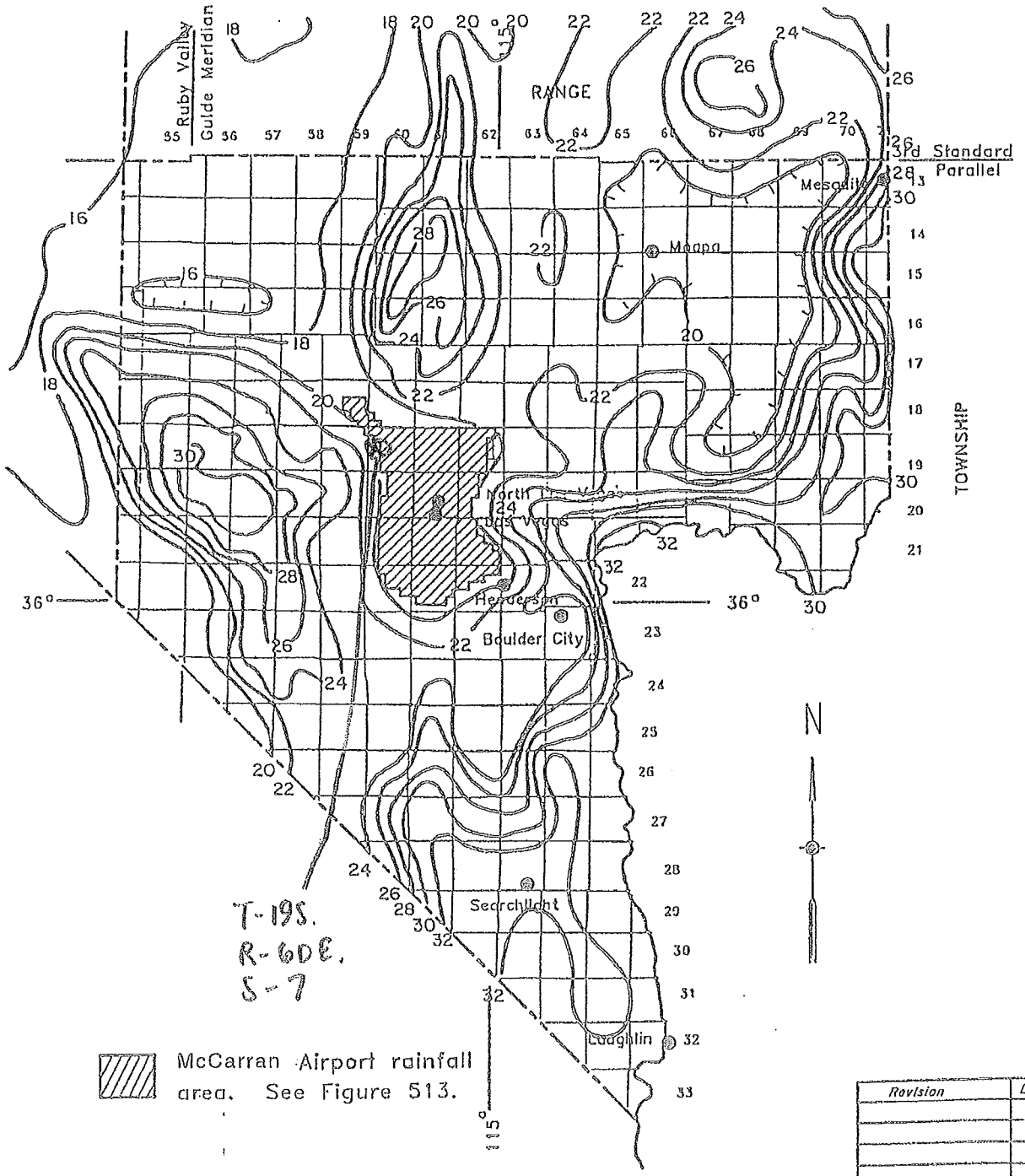
Revision	Date

WRC ENGINEERING

REFERENCE:
NOAA ATLAS 2, VOLUME VII NEVADA, 1973

FIGURE 503

RAINFALL DEPTH-DURATION-FREQUENCY
100-YEAR, 6-HOUR
(DEPTHS IN TENTHS OF INCHES)



Revision	Date

WRC ENGINEERING	REFERENCE: NOAA ATLAS 2, VOLUME VII NEVADA, 1973	FIGURE 506

PRECIPITATION ADJUSTMENT RATIOS

Recurrence Interval	Ratio to NOAA Atlas 2
2-year	1.00
5-year	1.16
10-year	1.24
25-year	1.33
50-year	1.39
100-year	1.43

NOTE: 1. Multiply the values obtained from the NOAA Atlas 2 by the above ratios to obtain the adjusted precipitation values.

2. NOAA Atlas 2 values for use with TR-55 shall not be adjusted by the above ratios.

3. Tables 505 and 506 require no adjustments.

Revision	Date

Standard Form 4 Computations for Local Ultimate Condition
Onsite & Offsite Basins

SLATER HANIFAN GROUP
CONSULTING ENGINEERS & PLANNERS

HYDROLOGIC CRITERIA AND DRAINAGE DESIGN MANUAL
TIME OF CONCENTRATION

Company: SHG, Inc
By: Steve Jones, P.E.
Date: 12/08/11

Project Name: Kyle Canyon Master Drainage Study - Addendum No. 3
Description: Local Ultimate Conditions
File Name:

SUB-BASIN DATA						INITIAL / OVERLAND TIME (Ti)			TRAVEL TIME (Tt)					Tc	Tc Check Urbanized Basins		Tlag
DESIG:	DEV./EX. (D or E)	CN	K [1]	AREA Ac	AREA Mi^2 [2]	INITIAL LENGTH Feet	SLOPE %	Ti Min [3]	TRAVEL LENGTH Feet	SLOPE %	V1 VELOCITY FPS [4]	V2 VELOCITY FPS [5]	Tt Min [6]	Tc Calc. [7]	Total Length Feet [8]	Tc Check [9]	Tlag Hours [10]
KYLE CANYON WEST BASINS																	
SHEEP1	D	93.8	0.8482	64.5	0.1008	300	2.0	6.23	6780	2.9	3.44	5.21	22.51	28.74	7080	49.333	0.287
KYLE CANYON EAST BASINS																	
SHEEP2	D	86.6	0.7531	40.1	0.0627	365	3.3	8.01	2470	2.4	3.13	4.74	9.59	17.60	2835	25.750	0.176
SHEEP3	D	86.6	0.7531	8.8	0.0137	500	3.0	9.68	1315	2.4	3.13	4.74	5.53	15.21	1815	20.083	0.152
Non-MPU/MPA OFFSITE BASINS																	
OFFS	D	90.0	0.7980	7.0	0.0109	100	1.0	5.44	615	2.9	3.44	5.21	2.79	8.23	715	13.972	0.082
OFFT	D	90.0	0.7980	11.0	0.0172	100	1.0	5.44	1210	2.0	2.86	4.33	5.65	11.09	1310	17.278	0.111
OFFU	D	94.8	0.8614	25.4	0.0397	100	1.0	4.30	2080	2.9	3.44	5.21	7.48	11.77	2180	22.111	0.118
OFFW	D	92.0	0.8244	7.8	0.0122	100	1.0	4.96	900	2.5	3.19	4.84	3.99	8.95	1000	15.556	0.089
OFFY	D	95.0	0.8640	8.0	0.0125	100	1.0	4.25	1800	2.5	3.19	4.84	7.09	11.34	1900	20.556	0.113
OFFZ	D	87.0	0.7584	33.5	0.0523	100	1.0	6.15	2060	2.7	3.32	5.03	7.68	13.83	2160	22.000	0.138
OFF14*	D	94.7	0.8600	8.2	0.0128	200	4.0	3.85	773	2.5	3.19	4.84	3.55	7.40	973	15.406	0.074
OFF15*	D	94.7	0.8600	22.3	0.0348	200	3.5	4.02	1678	2.4	3.13	4.74	6.80	10.83	1878	20.433	0.108
* - Referenced from GCW Master Drainage Study - Update No. 2 Interim 2 Condition.																	
U.S. HIGHWAY 95 BASINS																	
OFFH*	D	92.5	0.8310	4.8	0.0074	200	4.0	4.31	805	3.1	3.56	5.39	3.29	7.60	1005	15.583	0.076
OFF8*	D	92.2	0.8270	8.5	0.0133	200	2.6	5.05	1304	2.6	3.26	4.93	5.27	10.33	1504	18.356	0.103
OFF9*	D	92.2	0.8270	27.2	0.0424	200	1.8	5.71	2929	1.8	2.71	4.11	12.94	18.65	3129	27.383	0.186
95-5	D	92.2	0.8270	19.4	0.0303	100	1.0	4.91	500	2.7	3.32	5.03	2.51	7.42	600	13.333	0.074
95-6*	D	92.8	0.8350	6.7	0.0104	50	2.0	2.68	1313	1.8	2.71	4.11	6.38	9.05	1363	17.572	0.091
95-7A*	D	94.7	0.8600	4.4	0.0069	50	2.0	2.42	1071	2.2	3.00	4.54	4.88	7.30	1121	16.228	0.073
95-7B*	D	94.7	0.8600	5.2	0.0081	50	2.0	2.42	1296	2.0	2.86	4.33	5.98	8.41	1346	17.478	0.084
95-8A*	D	94.7	0.8600	3.3	0.0052	50	2.0	2.42	664	1.8	2.74	4.15	3.70	6.12	714	13.967	0.061
95-8B*	D	94.7	0.8600	2.0	0.0031	50	2.0	2.42	568	3.2	3.61	5.47	2.51	4.94	618	13.433	0.050
95-9A*	D	94.7	0.8600	7.1	0.0110	50	2.0	2.42	1364	1.6	2.52	3.82	7.07	9.49	1414	17.856	0.095
95-9B*	D	94.7	0.8600	8.5	0.0133	50	2.0	2.42	1534	0.8	1.76	2.67	11.19	13.62	1584	18.800	0.136
* - Referenced from GCW Master Drainage Study - Update No. 2 Interim 2 Condition.																	

[1] K = 0.0132 (CN) - 0.39
[2] A = Area/640
[3] Ti = (1.8 (1.1-K) L^0.5)/S^0.33
[4] For Existing Conditions: V1 = 14.8 * (S/100)^0.5
For Developed Conditions: V1 = 20.2 * (S/100)^0.5
[5] For Existing Conditions: V2 = 29.4 * (S/100)^0.5
For Developed Conditions: V2 = 30.6 * (S/100)^0.5
[6] Tt = L/(60*V)
[7] Tc = Ti + Tt
[8] Total L = Initial L + Travel L
[9] Tc = (L/180) + 10
[10] Tlag = (0.6*Tc)/60
[11] Min Tlag =0.05

Note: For Travel Time Calcs: V1 applies to first 500 feet and V2 applies to remaining distance.

REFERENCE :

STANDARD FORM 4

"Local" Ultimate Condition SDN3 Storm HEC-1 Analysis

DARF Worksheet – Local Ultimate Condition HEC-1 Analysis

SH-HO = HEC-1 Area + DIV-2
SH-HO = 0.10 + 1.08
SH-HO = 1.18 mi^2

IR-SH = HEC-1 Area + DIV-2 + DIV-3
IR-SH = 0.16 + 1.08 + 0.39
IR-SH = 1.63 mi^2

SM-IR = HEC-1 Area + DIV-1
SM-IR = 0.19 + 0.84
SM-IR = 1.03 mi^2

HU-IR = HEC-1 Area + DIV-1 + DIV-2 + DIV-3
HU-IR = 0.67 + 0.84 + (1.08 – 0.84) + 0.39
HU-IR = 2.14 mi^2

CKC5 = HEC-1 Area + DIV-1 + DIV-2 + DIV-3
CKC5 = 3.36 + 0.84 + (1.08 – 0.84) + 0.39
CKC5 = 4.83 mi^2

CKC6 = HEC-1 Area + DIV-1 + DIV-2 + DIV-3
CKC6 = 3.53 + 0.84 + (1.08 – 0.84) + 0.39
CKC6 = 5.00 mi^2

COFF9 = HEC-1 Area + CHD02B
COFF9 = 0.04 + 0.06
COFF9 = 0.10 mi^2

LC-SK = HEC-1 Area + CHD02B
LC-SK = 0.06 + 0.06
LC-SK = 0.12 mi^2

LC-TP = HEC-1 Area + CHD02B
LC-TP = 0.26 + 0.06
LC-TP = 0.32 mi^2

FT-LC = HEC-1 Area + CHD02B
FT-LC = 0.48 + 0.06
FT-LC = 0.54 mi^2

FT-MO = HEC-1 Area + CHD02B
FT-MO = 0.68 + 0.06
FT-MO = 0.74 mi^2

```
1*****************************************
*                                       *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
*             JUN  1998                 *
*           VERSION 4.1                 *
*                                       *
*  RUN DATE   08DEC11  TIME  14:43:26   *
*                                       *
*****************************************
```

```
*****************************************
*                                       *
*    U.S. ARMY CORPS OF ENGINEERS       *
*    HYDROLOGIC ENGINEERING CENTER      *
*         609 SECOND STREET             *
*       DAVIS, CALIFORNIA 95616         *
*           (916) 756-1104              *
*                                       *
*****************************************
```

```
X     X  XXXXXXX   XXXXX          X
X     X  X        X     X        XX
X     X  X        X              X
XXXXXXX  XXXX     X        XXXXX  X
X     X  X        X              X
X     X  X        X     X        X
X     X  XXXXXXX   XXXXX         XXX
```

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

1 HEC-1 INPUT PAGE 1

```
LINE          ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

              *DIAGRAM
    1         ID     SLATER HANIFAN GROUP
    2         ID     CARWIN ADVISORS
    3         ID     KYLE CANYON
    4         ID     MASTER DRAINAGE STUDY - CLV ADDENDUM #3
    5         ID     ULTIMATE DRAINAGE CONDITION - LOCAL ONSITE
    6         ID
    7         ID     RETURN PERIOD -------- 100 & 10-YEAR
    8         ID     DISTRIBUTION --------- 6-HOUR SDN3
    9         ID     PROJECT NO. ---------- WCP0902.003
   10         ID     FILENAME ------------- Ultimate3-Local.H1
   11         ID     DATE ----------------- 12/08/11
   12         ID     MODELED BY ----------- SMJ/KCR
   13         ID
   14         ID        SIX HOUR DEPTH-AREA REDUCTION FACTORS
   15         ID        DRAINAGE AREA (MI^2)    DARF
   16         ID        0.0-0.49                1.00
   17         ID        0.5-0.99                0.98
   18         ID        1.0-1.99                0.97
   19         ID        2.0-3.99                0.93
   20         ID        4.0-5.99                0.91
   21         ID        6.0-7.99                0.90
   22         ID        25-YR                   0.70
   23         ID        10-YR                   0.57
   24         ID
   25         IT       5       0       0     300
   26         IO       5       0       0
   27         IN       5       0       0
   28         JR    PREC    1.00    0.98    0.97    0.93    0.91    0.90    0.70    0.57
              *

   29         KK    95-5
   30         KM   REVISED FROM GCW MASTER DRAINAGE STUDY, MINUS OFFV
   31         BA   .0303
   32         PB    2.77
   33         PC       0   0.020   0.057   0.070   0.087   0.108   0.124   0.130   0.130   0.130
   34         PC   0.130   0.130   0.130   0.133   0.140   0.142   0.148   0.158   0.172   0.181
   35         PC   0.190   0.197   0.199   0.200   0.201   0.204   0.214   0.229   0.241   0.249
   36         PC   0.251   0.256   0.270   0.278   0.281   0.283   0.295   0.322   0.352   0.409
   37         PC   0.499   0.590   0.710   0.744   0.781   0.812   0.819   0.835   0.851   0.856
   38         PC   0.860   0.868   0.876   0.888   0.910   0.926   0.937   0.950   0.970   0.976
   39         PC   0.982   0.985   0.987   0.989   0.990   0.993   0.993   0.994   0.995   0.998
   40         PC   0.998   0.999   1.000
   41         LS       0    92.2
   42         UD   0.074
              *

   43         KK  DHD01B
   44         KM   FACILITY E-9
   45         KM   FLOW SPLIT AT VTN CULVERT 1
   46         KM   FLOW SPLITS TO BETWEEN NB AND SB ROADS OF US-95
   47         KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
   48         DT   DCHD1B
   49         DI       0     133     187     250
   50         DQ       0     120     135     150
              *
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1 HEC-1 INPUT PAGE 2

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LINE          ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

   51         KK    OFF8
   52         KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
   53         BA   .0133
   54         PB    2.77
   55         LS       0    92.2
   56         UD   0.103
              *

   57         KK    OFFY
   58         BA   .0125
   59         PB    2.77
   60         LS       0    95.0
   61         UD   0.113
              *

   62         KK  CHD02B
   63         KM   COMBINE RDHD1B, OFF8, OFFY
   64         KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
   65         HC       3
              *

   66         KK  DHD02B
   67         KM   FACILITY E-10
   68         KM   FLOW SPLIT AT VTN CULVERT 2
   69         KM   FLOW SPLITS TO BETWEEN NB AND SB ROADS OF US-95
   70         KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
   71         DT   DCHD2B
   72         DI       0     100     138
   73         DQ       0      99     135
              *

   74         KK  WGED1A
   75         BA   .0167
   76         PB    2.93
   77         LS       0    94.6
   78         UD    .096
              *
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   79          KK  WGED1B
   80          BA   .0367
   81          PB    2.77
   82          LS       0    92.8
   83          UD    .110
               *

   84          KK   STRT3
   85          BA   .0016
   86          PB    2.93
   87          LS       0    98.0
   88          UD    .050
               *
1                                        HEC-1 INPUT                                        PAGE  3

  LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

   89          KK   WPT49
   90          KM   TOTAL KYLE CANYON DEVELOPMENT DISCHARGE TOWARD VTN CULVERT 4
   91          HC       3
               *

   92          KK    OFFW
   93          BA   .0122
   94          PB    2.77
   95          LS       0    92.0
   96          UD    .089
               *

   97          KK  CHD04B
   98          KM   COMBINE RDHD2B, WPT49, OFFW
   99          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
  100          HC       3
               *

  101          KK    WBU3
  102          BA   .0661
  103          PB    2.93
  104          LS       0    95.0
  105          UD    .127
               *

  106          KK   STRT2
  107          BA   .0035
  108          PB    2.93
  109          LS       0    98.0
  110          UD    .078
               *

  111          KK  GRAND3
  112          BA   .0100
  113          PB    2.93
  114          LS       0    98.0
  115          UD    .124
               *

  116          KK   WBU2B
  117          BA   .0214
  118          PB    2.93
  119          LS       0    95.0
  120          UD    .092
               *

  121          KK    WGC1
  122          BA   .0187
  123          PB    2.93
  124          LS       0    95.0
  125          UD    .070
               *
1                                        HEC-1 INPUT                                        PAGE  4

  LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  126          KK   WPT48
  127          KM   TOTAL KYLE CANYON DEVELOPMENT DISCHARGE TOWARD VTN CULVERT 5
  128          HC       5
               *

  129          KK  CHD05B
  130          KM   COMBINE CHD04B, WPT48
  131          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
  132          KM   DISCHARGE DIRECTLY INTO EXISTING US-95 INTERIM MPU FACILITY
  133          HC       2
               *

  134          KK    WBU1
  135          BA   .0358
  136          PB    2.93
  137          LS       0    95.0
  138          UD    .102
               *

  139          KK   STRT1
  140          BA   .0048
  141          PB    2.93
  142          LS       0    98.0
  143          UD    .090
               *

  144          KK   WBU2A
  145          BA   .0505
  146          PB    2.93
  147          LS       0    95.0
  148          UD    .114
               *

  149          KK    WL2B
  150          BA   .0631
  151          PB    2.93
  152          LS       0    90.0
  153          UD    .160
               *

  154          KK  GRAND2
  155          BA   .0043
  156          PB    2.93
  157          LS       0    98.0
  158          UD    .146
               *

  159          KK   DUMMY
  160          HC       5
               *
1                                        HEC-1 INPUT                                        PAGE  5

  LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  161          KK  HORSE3
  162          BA   .0117
  163          PB    2.93
  164          LS       0    98.0
  165          UD    .098
               *
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166          KK   WPT46
167          KM   TOTAL KYLE CANYON DEVELOPMENT DISCHARGE TOWARD VTN CULVERT 6
168          HC       2
             *

169          KK   OFF14
170          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
171          BA   .0128
172          PB    2.77
173          LS       0    94.7
174          UD   0.074
             *

175          KK  CHD06B
176          KM   COMBINE CHD05B, WPT46, OFF14
177          KM   REVISED FROM GCW MASTER DRAINAGE STUDY
178          KM   TO ACCOUNT FOR DIRECT CONNECTION FROM CHD05B TO US-95 INTERIM MPU FACILITY
179          HC       3
             *

180          KK   95-9A
181          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
182          BA   .0110
183          PB    2.77
184          LS       0    94.7
185          UD   0.095
             *

186          KK  CHD07B
187          KM   COMBINE CHD06B, 95-9A
188          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
189          HC       2
             *

190          KK   OFF15
191          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
192          BA   .0348
193          PB    2.77
194          LS       0    94.7
195          UD   0.108
             *
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1 HEC-1 INPUT PAGE 6

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LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

196          KK  CHD7B2
197          KM   COMBINE CHD07B, OFF15
198          KM   COMBINE FLOWS IN MPU FACILITY
199          KM   REVISED FROM GCW MASTER DRAINAGE STUDY
200          HC       2
             *

201          KK  OFF17B
202          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
203          KM   ADDED FROM HORSE INTERCHANGE MODEL
204          BA   .0080
205          PB   2.773
206          LS       0    92.1
207          UD   0.069
             *

208          KK  OFF17A
209          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
210          KM   ADDED FROM HORSE INTERCHANGE MODEL
211          BA   .0305
212          PB   2.773
213          LS       0    92.1
214          UD   0.104
             *

215          KK  COFF17
216          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
217          KM   ADDED FROM HORSE INTERCHANGE MODEL
218          KM   COMBINE OFF17A, OFF17B
219          KM   CULVERT AT BASIN OFF24B
220          HC       2
             *

221          KK     ON1
222          KM   START CENTENNIAL POINT HEC-1 DATA
223          BA   .0042
224          PB    2.86
225          LS       0    91.2
226          UD   0.085
             *

227          KK    ON4A
228          BA   .0045
229          LS       0    91.2
230          UD   0.077
             *

231          KK      C1
232          KM   COMBINE ON1 AND ON4A
233          HC       2
             *
```

1 HEC-1 INPUT PAGE 7

```
LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

234          KK      D1
235          KM   DIVERT FLOW INTO BASIN ON6
236          DT    DIV1
237          DI       0      16
238          DQ       0      13
             *

239          KK     ON5
240          BA   .0052
241          LS       0    91.2
242          UD   0.080
             *

243          KK      C2
244          KM   COMBINE C1 AND ON5
245          HC       2
             *

246          KK     D1A
247          KM   DIVERT FLOW FOR LATER USE IN HEC-1 RUN
248          DT   DIV1A
249          DI       0      50
250          DQ       0      50
             *

251          KK    ON4B
252          BA   .0031
253          LS       0    91.2
254          UD   0.085
             *

255          KK    RET1
256          KM   RETRIEVE FLOW FROM D1
257          DR    DIV1
             *
```

```
 258          KK    ON6
 259          BA   .0039
 260          LS      0    91.2
 261          UD   0.074
              *

 262          KK     C3
 263          KM   COMBINE RET1 AND ON6
 264          HC      2
              *

 265          KK    D1B
 266          KM   DIVERT FLOW FOR LATER USE IN HEC-1 RUN
 267          DT   DIV1B
 268          DI      0      50
 269          DQ      0      50
              *
1                                        HEC-1 INPUT                                        PAGE  8

         LINE        ID.......1.......2.......3.......4.......5.......6.......7.......8.......9.....10

 270          KK    ON2
 271          BA   .0050
 272          LS      0    91.2
 273          UD   0.080
              *

 274          KK    ON3
 275          BA   .0063
 276          LS      0    91.5
 277          UD   0.079
              *

 278          KK    ON9
 279          BA   .0045
 280          LS      0    91.4
 281          UD   0.096
              *

 282          KK     C4
 283          KM   COMBINE ON2, ON3 AND ON9
 284          HC      3
              *

 285          KK     D2
 286          KM   DIVERT FLOW INTO BASIN ON8
 287          DT    DIV2
 288          DI      0      29
 289          DQ      0      24
              *

 290          KK   ON10
 291          BA   .0025
 292          LS      0    91.5
 293          UD   0.071
              *

 294          KK     C5
 295          KM   COMBINE C4 AND ON10
 296          HC      2
              *

 297          KK     D3
 298          KM   DIVERT FLOW INTO BASIN ON7
 299          DT    DIV3
 300          DI      0      10
 301          DQ      0       8
              *

 302          KK   ON11
 303          BA   .0025
 304          LS      0    91.5
 305          UD   0.067
              *
1                                        HEC-1 INPUT                                        PAGE  9

         LINE        ID.......1.......2.......3.......4.......5.......6.......7.......8.......9.....10

 306          KK     C6
 307          KM   COMBINE C5 AND ON11
 308          HC      2
              *

 309          KK    D1C
 310          KM   DIVERT FLOW FOR LATER USE IN HEC-1 RUN
 311          DT   DIV1C
 312          DI      0      50
 313          DQ      0      50
              *

 314          KK   CD1C
 315          KM   COMBINE D1A, ON4B, D1B AND D1C
 316          KM   PICK UP AT OFF23
 317          HC      4
              *

 318          KK   RCD1C
 319          KM   ROUTE CD1C TO BASIN OFF23
 320          RK    2640  0.0346    0.02           TRAP     100       2
              *

 321          KK  DRCD1C
 322          KM   DIVERT FLOW TO BASIN OFF23
 323          DT  DOFF23
 324          DI      0      50     100
 325          DQ      0      50     100
              *

 326          KK    ON8
 327          BA   .0042
 328          LS      0    83.5
 329          UD   0.074
              *

 330          KK   RET2
 331          KM   RETRIEVE FLOW FROM D2
 332          DR    DIV2
              *

 333          KK     C7
 334          KM   COMBINE ON11 AND RET2
 335          HC      2
              *

 336          KK   RET3
 337          KM   RETRIEVE FLOW FROM D3
 338          DR    DIV3
              *
1                                        HEC-1 INPUT                                        PAGE 10

         LINE        ID.......1.......2.......3.......4.......5.......6.......7.......8.......9.....10

 339          KK    ON7
```

```
340          BA   .0073
341          LS      0    91.3
342          UD   0.077
             *

343          KK      C8
344          KM   COMBINE C7, RET3 AND ON7
345          HC       3
             *

346          KK   RET1A
347          KM   RETRIEVE FLOW FROM D1A IN TEE PEE
348          DR   DIV1A
             *

349          KK   RET1B
350          KM   RETRIEVE FLOW FROM D1B IN TEE PEE
351          DR   DIV1B
             *

352          KK   RET1C
353          KM   RETRIEVE FLOW FROM D1C IN TEE PEE
354          DR   DIV1C
             *

355          KK      C9
356          KM   COMBINE C8, RET1A, RET1B, RET1C IN TEE PEE
357          KM   END CENTENNIAL POINT HEC-1 DATA
358          HC       3
             *

359          KK    ON2D
360          KM   START GRAND CANYON APARTMENTS HEC-1 DATA
361          BA   .0105
362          PB    2.90
363          LS       0       95
364          UD   0.094
             *

365          KK    ON5D
366          BA   .0038
367          LS       0       95
368          UD   0.067
             *

369          KK     CP1
370          KM   COMBINE ON2D AND ON5D
371          HC       2
             *
1                                        HEC-1 INPUT                                        PAGE 11

         LINE        ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

372          KK    ON3D
373          BA   .0036
374          LS       0       95
375          UD   0.084
             *

376          KK     CP2
377          KM   COMBINE CP1 AND ON3D
378          HC       2
             *

379          KK    ON1D
380          BA   .0075
381          LS       0       95
382          UD   0.079
             *

383          KK    ON4D
384          BA   .0041
385          LS       0       95
386          UD   0.096
             *

387          KK     CP3
388          KM   COMBINE ON1D AND ON4D
389          HC       2
             *

390          KK     CP4
391          KM   COMBINE CP2 AND CP3
392          KM   END GRAND CANYON APARTMENTS HEC-1 DATA
393          HC       2
             *

394          KK  CENGCA
395          KM   COMBINE DRCD1C, C9, CP4
396          KM   CD1C IS DIVERSION OF FLOW ON TEE PEE FROM CENTENNIAL POINT
397          KM   CP4 AND C9 ARE ENDING OF THE APARTMENT COMPLEX AND DEVELOPMENT
398          HC       4
             *

399          KK    WML4
400          BA   .0373
401          PB    3.00
402          LS       0    93.2
403          UD    .121
             *

404          KK  SHAUM1
405          BA    .0066
406          PB    3.00
407          LS       0    98.0
408          UD    .098
             *
1                                        HEC-1 INPUT                                        PAGE 12

         LINE        ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

409          KK   WML3A
410          BA   .0174
411          PB    3.00
412          LS       0    95.0
413          UD    .080
             *

414          KK    WML2
415          BA   .0858
416          PB    3.00
417          LS       0    94.2
418          UD    .123
             *

419          KK   DUMMY
420          HC       4
             *

421          KK   EGAN1
422          BA   .0048
423          PB    3.00
424          LS       0    98.0
425          UD    .104
             *
```

```
426          KK  RACL1A
427          BA   .0062
428          PB   3.00
429          LS      0    98.0
430          UD   .090
             *

431          KK   RA-EG
432          KM   TOTAL FLOW AT INTERSECTION OF RACEL AND EGAN CREST
433          KM   ROUTED EAST IN RACEL
434          HC      3
             *

435          KK    WML1
436          BA   .0232
437          PB   3.00
438          LS      0    94.9
439          UD   .098
             *

440          KK   STRT4
441          BA   .0031
442          PB   3.00
443          LS      0    98.0
444          UD   .125
             *
1                                        HEC-1 INPUT                                    PAGE 13

          LINE       ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

445          KK    WL3A
446          BA   .0324
447          PB   3.00
448          LS      0    90.0
449          UD   .125
             *

450          KK  WSCHL1
451          BA   .0573
452          PB   3.00
453          LS      0    91.0
454          UD   .101
             *

455          KK   DUMMY
456          HC      5
             *

457          KK   HUAL1
458          BA   .0057
459          PB   3.00
460          LS      0    98.0
461          UD   .130
             *

462          KK  RACL1B
463          BA   .0045
464          PB   3.00
465          LS      0    98.0
466          UD   .071
             *

467          KK   RA-HU
468          KM   TOTAL FLOW AT INTERSECTION OF RACEL AND HUALAPAI
469          KM   ROUTED EAST IN RACEL
470          HC      3
             *

471          KK    WL1
472          BA   .1068
473          PB   2.93
474          LS      0    90.0
475          UD   .187
             *

476          KK   WNVE1
477          BA   .0063
478          PB   2.93
479          LS      0    94.0
480          UD   .075
             *
1                                        HEC-1 INPUT                                    PAGE 14

          LINE       ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

481          KK    WL2A
482          BA   .0502
483          PB   2.93
484          LS      0    90.0
485          UD   .156
             *

486          KK  RACL1C
487          BA   .0068
488          PB   2.93
489          LS      0    98.0
490          UD   .096
             *

491          KK   DUMMY
492          HC      5
             *

493          KK  GRAND1
494          BA   .0031
495          PB   2.93
496          LS      0    98.0
497          UD   .132
             *

498          KK    CP26
499          KM   KYLE CANYON DEVELOPMENT TOTAL DISCHARGE AT GRAND CANYON AND OSTINATO
500          KM   ROUTED THRU CENTENNIAL POINT TOWARD US-95
501          HC      2
             *

502          KK    CCP4
503          KM   COMBINE DRCD1C, C9, CP4, CP26
504          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
505          HC      2
             *

506          KK  OFF21B
507          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
508          KM   BASIN IS DEVELOPED, CHECK FOR REFERENCE MATERIAL
509          BA   .0414
510          PB   2.775
511          LS      0      95
512          UD  0.110
             *

513          KK  COF21B
514          KM   COMBINE OFF21B WITH FLOW FROM CENTENNIAL POINT AND GRAND CANYON APTS
515          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
```

```
 516          HC       2
              *
1                                        HEC-1 INPUT                                                    PAGE 15

 LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 517          KK  ROFF23
 518          KM   RETRIEVE FLOW FROM DIVOFF23
 519          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
 520          DR  DOFF23
              *
 521          KK   OFF23
 522          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
 523          BA   .0091
 524          PB   2.787
 525          LS      0       95
 526          UD   0.109
              *
 527          KK  COFF23
 528          KM   COMBINE OFF23, DOFF23
 529          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
 530          HC       2
              *
 531          KK  NW29-C
 532          KM   REFERENCED FROM 2008 MPU
 533          BA   0.132
 534          PB    3.00
 535          LS       0     92.4
 536          UD   0.214
              *
 537          KK  RNW29C
 538          KM  ROUTE NW29-C TO CNW71-W
 539          KM  FACILITY = CENTENNIAL PARKWAY CHANNEL WEST/GRAND TETON BRANCH
 540          KM  FACILITY ID-MILE = CNGT 0118
 541          KM  LINING = ARCH CON
 542          KM   REFERENCED FROM 2008 MPU
 543          RD    2100   0.037   0.015       0    TRAP       6       0
              *
 544          KK  NW71-W
 545          KM   REFERENCED FROM 2008 MPU
 546          BA   0.104
 547          PB    2.92
 548          LS       0     92.5
 549          UD   0.206
              *
 550          KK  CNW71W
 551          KM  COMBINE RNW29C AND NW71-W
 552          KM  CENTENNIAL PKWY CHANNEL WEST/GRAND TETON BRANCH @ HUALAPAI
 553          KM   REFERENCED FROM 2008 MPU
 554          HC       2
              *
1                                        HEC-1 INPUT                                                    PAGE 16

 LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 555          KK  RCNW71-W
 556          KM  ROUTE CNW71-W TO CNW71-E
 557          KM  FACILITY = CENTENNIAL PARKWAY CHANNEL WEST/GRAND TETON BRANCH
 558          KM  FACILITY ID-MILE = CNGT 0000,0043
 559          KM  LINING = RCB
 560          KM   REFERENCED FROM 2008 MPU
 561          RD    6270   0.030   0.015       0    TRAP       6       0
              *
 562          KK  NW71-E
 563          KM   REFERENCED FROM 2008 MPU
 564          BA   0.238
 565          PB    2.85
 566          LS       0     88.3
 567          UD   0.293
              *
 568          KK  CNW71E
 569          KM  COMBINE NW71-E AND RCNW71-W
 570          KM  CENTENNIAL PKWY CHANNEL WEST/GRAND TETON BRANCH @ US 95
 571          KM   REFERENCED FROM 2008 MPU
 572          HC       2
              *
 573          KK     GT1
 574          BA   .0243
 575          PB    3.00
 576          LS       0     98.0
 577          UD    .256
              *
 578          KK    OFFU
 579          BA   .0398
 580          PB    2.93
 581          LS       0     94.8
 582          UD   0.118
              *
 583          KK  CP26WT
 584          KM   COMBINE CNW71-E, GT1, OFFU
 585          HC       3
              *
 586          KK   95STH
 587          KM   FLOW CONVEYED SOUTH IN US-95 AT GRAND TETON
 588          KM   FLOW CONVEYED IN FACILITY ID = CN95 0167
 589          KM   COMBINE CP26WT, COFF23, COF21B, COFF17, CHD7B2
 590          HC       5
              *
1                                        HEC-1 INPUT                                                    PAGE 17

 LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 591          KK   OFF21
 592          KM   OFFSITE MPA BASIN
 593          PB    3.08
 594          BA   .4788
 595          LS       0     87.6
 596          UD   0.425
              *
 597          KK   OFF20
 598          KM   OFFSITE MPA BASIN
 599          BA   .3349
 600          PB    3.01
 601          LS       0     86.3
 602          UD   0.440
              *
 603          KK     DB1
 604          KM   DETENTION BASIN 1
 605          BA   .0243
 606          PB    3.00
```

```
607          LS      0    94.0
608          UD  0.174
             *

609          KK    PT1
610          KM  DETENTION BASIN 1 INFLOW
611          HC      3
             *

612          KK   DET1
613          KM  OUTLET = 2 - 30" ORIFICE
614          KM  DICHARGE INTO SOUTHERN MAINTAINED ARROYO AND INTO DETENTION BASIN 2
615          KO      1
616          RS      1    ELEV    29.5
617          SA      0    0.26    3.14    5.20    6.64
618          SE   29.5      30      32      34    41.6
619          SQ      0   23.62   85.18  127.22  158.48
620          SE   29.5      31      34      38      42
             *

621          KK   DIV1
622          KM  DIVERT PORTION OF OUTFLOW EAST INTO SOUTHERN ARROYO
623          DT  DIV-1
624          DI      0     148
625          DQ      0      68
             *

626          KK  OFF18
627          KM  OFFSITE MPA BASIN
628          BA  .2098
629          PB   3.00
630          LS      0    86.0
631          UD  0.334
             *
1                                        HEC-1 INPUT                                    PAGE 18

         LINE        ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

632          KK    DB2
633          KM  DETENTION BASIN 2
634          BA  .0316
635          PB   3.00
636          LS      0    94.0
637          UD  0.180
             *

638          KK    PT2
639          KM  DETENTION BASIN 2 INFLOW
640          KM  COMBINATION OF OFF18, DB2, PLUS 30" FLOW PIPE FROM DET1
641          HC      3
             *

642          KK   DET2
643          KM  OUTLET = 27" ORIFICE
644          KO      1
645          RS      1    ELEV      23
646          SA      0    0.76    8.75    9.67   10.44
647          SE     23      24      29      30      32
648          SQ      0   16.57   41.71   45.89   53.28
649          SE     23      25      29      30      32
             *

650          KK   DIV2
651          KM  DIVERT OUTFLOW INTO NORTHERN ARROYO
652          DT  DIV-2
653          DI      0     150
654          DQ      0     150
             *

655          KK  OFF16
656          KM  OFFSITE MPA BASIN
657          BA  .3598
658          PB   3.00
659          LS      0    86.3
660          UD  0.329
             *

661          KK    DB3
662          KM  DETENTION BASIN 3
663          BA  .0302
664          PB   3.00
665          LS      0    94.0
666          UD  0.192
             *

667          KK    PT3
668          KM  DETENTION BASIN 3 INFLOW
669          HC      2
             *
1                                        HEC-1 INPUT                                    PAGE 19

         LINE        ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

670          KK   DET3
671          KM  OUTLET = 30" ORIFICE
672          KO      1
673          RS      1    ELEV       0
674          SA      0    0.50    6.66    9.09
675          SE      0       1       6    11.7
676          SQ      0   20.46   69.89   77.46
677          SE      0       2      10      12
             *

678          KK   DIV3
679          KM  DIVERT OUTFLOW INTO IRON MOUNTAIN
680          DT  DIV-3
681          DI      0     150
682          DQ      0     150
             *

683          KK  EMPTY
684          HC      3
             *

685          KK  WPRK3
686          BA  .0222
687          PB   3.00
688          LS      0    84.0
689          UD   .088
             *

690          KK   WGC2
691          BA  .0083
692          PB   3.00
693          LS      0    95.0
694          UD   .068
             *

695          KK  WML3B
696          BA  .0425
697          PB   3.00
698          LS      0    95.0
699          UD   .128
             *
```

```
700          KK   EGAN2
701          BA   .0037
702          PB    3.00
703          LS       0    98.0
704          UD    .118
             *
```



```
LINE         ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

705          KK   AROY2
706          BA   .0132
707          PB    3.00
708          LS       0    88.0
709          UD    .100
             *

710          KK   DUMMY
711          HC       5
             *

712          KK  WPRK2A
713          BA   .0059
714          PB    3.00
715          LS       0    84.0
716          UD    .074
             *

717          KK  WPRK2B
718          BA   .0022
719          PB    3.00
720          LS       0    84.0
721          UD    .069
             *

722          KK   AROY3
723          BA   .0043
724          PB    3.00
725          LS       0    88.0
726          UD    .100
             *

727          KK    WL3B
728          BA   .0253
729          PB    3.00
730          LS       0    90.0
731          UD    .122
             *

732          KK   DUMMY
733          HC       5
             *

734          KK  HORSE2
735          BA   .0117
736          PB    3.00
737          LS       0    98.0
738          UD    .103
             *
```



```
LINE         ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

739          KK  HUAL2A
740          BA   .0053
741          PB    3.00
742          LS       0    98.0
743          UD    .129
             *

744          KK   HU-HO
745          KM   TOTAL FLOW AT INTERSECTION OF HUALAPAI AND HORSE
746          KM   ROUTED NORTH IN  HUALAPAI
747          HC       3
             *

748          KK    WML5
749          BA   .0370
750          PB    3.00
751          LS       0    95.0
752          UD    .096
             *

753          KK  WSCHL2
754          BA   .0171
755          PB    3.00
756          LS       0    91.0
757          UD    .079
             *

758          KK   WPRK1
759          BA   .0115
760          PB    3.00
761          LS       0    84.0
762          UD    .066
             *

763          KK   STRT5
764          BA   .0065
765          PB    3.00
766          LS       0    98.0
767          UD    .081
             *

768          KK   DUMMY
769          HC       5
             *

770          KK   AROY5
771          BA   .0122
772          PB    3.00
773          LS       0    88.0
774          UD    .100
             *
```



```
LINE         ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

775          KK   WMLA1
776          BA   .0697
777          PB    3.00
778          LS       0    95.0
779          UD    .129
             *

780          KK  HUAL2B
781          BA   .0124
782          PB    3.00
783          LS       0    98.0
784          UD    .250
             *

785          KK   DUMMY
786          HC       4
```

```
                *
787             KK   DIV-2
788             KM   DETENTION BASIN 2 DISCHARGE INTO NORTHERN MAINTAINED ARROYO
789             DR   DIV-2
                *
790             KK   AROY4
791             KM   DOWNSTREAM OF NORTHERN MAINTAINED ARROYO OUTFALL DISCHARGE
792             BA   .0080
793             PB    3.00
794             LS       0    88.0
795             UD    .100
                *
796             KK    WML7
797             BA   .0380
798             PB    3.00
799             LS       0    95.0
800             UD    .097
                *
801             KK   WPRK4
802             BA   .0048
803             PB    3.00
804             LS       0    84.0
805             UD    .083
                *
806             KK  SHAUM2
807             BA   .0080
808             PB    3.00
809             LS       0    98.0
810             UD    .110
                *
1                                          HEC-1 INPUT                                          PAGE 23

            LINE        ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

811             KK   DUMMY
812             HC       5
                *
813             KK     WL7
814             BA   .0207
815             PB    3.00
816             LS       0    90.0
817             UD    .101
                *
818             KK   WNVE2
819             BA   .0018
820             PB    3.00
821             LS       0    88.0
822             UD    .131
                *
823             KK     WL6
824             BA   .0060
825             PB    3.00
826             LS       0    90.0
827             UD    .078
                *
828             KK  HORS1A
829             BA   .0086
830             PB    3.00
831             LS       0    98.0
832             UD    .095
                *
833             KK   SH-HO
834             KM   TOTAL FLOW AT INTERSECTION OF SHAUMBER AND HORSE
835             KM   ROUTED NORTH IN SHAUMBER
836             HC       5
                *
837             KK   DIV-3
838             KM   DETENTION BASIN 3 DISCHARGE INTO IRON MOUNTAIN
839             DR   DIV-3
                *
840             KK     WL8
841             BA   .0133
842             PB    3.00
843             LS       0    90.0
844             UD    .085
                *
1                                          HEC-1 INPUT                                          PAGE 24

            LINE        ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

845             KK   WNVE3
846             BA   .0028
847             PB    3.00
848             LS       0    88.0
849             UD    .159
                *
850             KK     WL5
851             BA   .0402
852             PB    3.00
853             LS       0    90.0
854             UD    .107
                *
855             KK  IRON1A
856             BA   .0055
857             PB    3.00
858             LS       0    98.0
859             UD    .087
                *
860             KK   DUMMY
861             HC       5
                *
862             KK  SHAUM3
863             BA    .0048
864             PB    3.00
865             LS       0    98.0
866             UD    .064
                *
867             KK   IR-SH
868             KM   TOTAL FLOW AT INTERSECTION OF IRON MOUNTAIN AND SHAUMBER
869             KM   ROUTED EAST IN IRON MOUNTAIN
870             HC       3
                *
871             KK    WML6
872             BA   .0284
873             PB    3.00
874             LS       0    95.0
875             UD    .085
```

```
                *
          876   KK  HORS1B
          877   BA   .0032
          878   PB    3.00
          879   LS       0    98.0
          880   UD    .050
                *
1                                        HEC-1 INPUT                                        PAGE 25

        LINE    ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

          881   KK     WL4
          882   BA   .0492
          883   PB    3.00
          884   LS       0    90.0
          885   UD    .133
                *
          886   KK   DUMMY
          887   HC       3
                *
          888   KK   DIV-1
          889   KM   OUTFLOW FROM DETENTION BASIN 1 INTO SOUTHERN MAINTAINED ARROYO
          890   DR   DIV-1
                *
          891   KK   AROY1
          892   KM   DOWNSTREAM OF SOUTHERN MAINTAINED ARROYO OUTFALL DISCHARGE
          893   BA   .0028
          894   PB    3.00
          895   LS       0    88.0
          896   UD    .100
                *
          897   KK   WPRK5
          898   BA   .0037
          899   PB    3.00
          900   LS       0    84.0
          901   UD    .066
                *
          902   KK  SHEEP1
          903   KM   ONSITE MPA BASIN NWSHP
          904   BA   .1008
          905   PB    3.00
          906   LS       0    93.8
          907   UD   0.287
                *
          908   KK   SM-IR
          909   KM   TOTAL FLOW IN SHEEP MOUNTAIN PARKWAY AT ITS INTERSECTION WITH IRON MOUNTAIN R
          910   KM   ROUTED EAST IN IRON MOUNTAIN
          911   HC       5
                *
          912   KK  IRON1B
          913   BA   .0044
          914   PB    3.00
          915   LS       0    98.0
          916   UD    .101
                *
1                                        HEC-1 INPUT                                        PAGE 26

        LINE    ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

          917   KK   HU-IR
          918   KM   TOTAL FLOW AT INTERSECTION OF HUALAPAI AND IRON MOUNTAIN
          919   KM   ROUTED NORTH IN REGIONAL FACILITY ALIGNMENT
          920   HC       4
                *
          921   KK  OFF4-1
          922   KM  REFERENCED FROM 2008 MPU
          923   BA   0.301
          924   PB    3.40
          925   LS       0    86.8
          926   UD   0.295
                *
          927   KK  ROFF41
          928   KM  ROUTE OFF4-1 TO COFF4-2
          929   KM  KYLE CANYON ROAD
          930   KM  REFERENCED FROM 2008 MPU
          931   RD    5800  0.0414   0.016       0    TRAP       0      50
                *
          932   KK  OFF4-2
          933   KM  REFERENCED FROM 2008 MPU
          934   BA   0.420
          935   PB    3.34
          936   LS       0    85.2
          937   UD   0.140
                *
          938   KK  COFF42
          939   KM  COMBINE ROFF4-1 AND OFF4-2
          940   KM  REFERENCED FROM 2008 MPU
          941   HC       2
                *
          942   KK  RCOFF4-2
          943   KM  ROUTE COFF4-2 TO COFF5-1
          944   KM  KYLE CANYON ROAD
          945   KM  REFERENCED FROM 2008 MPU
          946   RD    2800  0.0392   0.016       0    TRAP       0      50
                *
          947   KK  OFF5-1
          948   KM  REFERENCED FROM 2008 MPU
          949   BA   0.296
          950   PB    3.26
          951   LS       0    84.1
          952   UD   0.222
                *
1                                        HEC-1 INPUT                                        PAGE 27

        LINE    ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

          953   KK  COFF51
          954   KM  COMBINE RCOFF4-2 AND OFF5-1
          955   KM  REFERENCED FROM 2008 MPU
          956   HC       2
                *
          957   KK  RCOFF5-1
          958   KM  ROUTE COFF5-1 TO 2CNW1-C
          959   KM  FACILITY = MOCCASIN AND KYLE CANYON ROAD
          960   KM  FACILITY ID-MILE = MOKC 0380
          961   KM  LINING = RCP
          962   KM  REFERENCED FROM 2008 MPU
          963   RD    5800  0.0373   0.013       0    CIRC     7.5       0
                *
```

```
964          KK  OFF5-2
965          KM  REFERENCED FROM 2008 MPU
966          BA   0.395
967          PB    3.20
968          LS       0    86.9
969          UD   0.317
             *

970          KK  ROFF52
971          KM  ROUTE OFF5-2 TO CNW1-C
972          KM  FACILITY =KYLE CANYON ROAD AND UNKNOWN
973          KM  FACILITY ID-MILE = KCUN 0000
974          KM  LINING = RCP
975          KM  REFERENCED FROM 2008 MPU
976          RD    2300   0.022   0.013       0    CIRC       7       0
             *

977          KK   NW1-C
978          KM  REFERENCED FROM 2008 MPU
979          BA   0.293
980          PB    3.12
981          LS       0    84.3
982          UD   0.263
             *

983          KK  CNW1-C
984          KM  COMBINE ROFF5-2 AND NW1-C
985          KM  REFERENCED FROM 2008 MPU
986          HC       2
             *

987          KK  2CNW1C
988          KM  COMBINE RCOFF5-1 AND CNW1-C
989          KM  REFERENCED FROM 2008 MPU
990          HC       2
             *
1                                        HEC-1 INPUT                                                    PAGE 28

LINE         ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

 991         KK  R2CNW1-C
 992         KM  ROUTE 2CNW1-C TO CNW-7
 993         KM  FACILITY =MOCCASIN AND KYLE CANYON ROAD
 994         KM  FACILITY ID-MILE = MOKC 0325
 995         KM  LINING = RCB
 996         KM  REFERENCED FROM 2008 MPU
 997         RD    5700  0.0365   0.015       0    TRAP       9       0
             *

 998         KK   NW7-C
 999         KM  REFERENCED FROM 2008 MPU
1000         BA   0.488
1001         PB    3.03
1002         LS       0    87.2
1003         UD   0.364
             *

1004         KK   CNW-7
1005         KM  COMBINE NW7-C AND R2CNW1-C
1006         KM  REFERENCED FROM 2008 MPU
1007         HC       2
             *

1008         KK  RCNW7C
1009         KM  ROUTE CNW7-C TO CNW21-C
1010         KM  FACILITY =MOCCASIN AND KYLE CANYON ROAD
1011         KM  FACILITY ID-MILE = MOKC
1012         KM  LINING = RCB
1013         KM  REVISED FROM 2008 MPU
1014         RD    2660  0.0338   0.015       0    TRAP      20       0
             *

1015         KK  NW21-C
1016         KM   PROPOSED ULTIMATE CONDITION MPA BASIN
1017         BA   .1552
1018         PB    3.00
1019         LS       0    92.0
1020         UD   0.199
             *

1021         KK  CNW21C
1022         KM   COMBINE NW21-C AND CNW-7
1023         HC       2
             *

1024         KK  RCNW21-C
1025         KM  ROUTE CNW21-C TO CNW35-C
1026         KM  FACILITY =MOCCASIN AND KYLE CANYON ROAD
1027         KM  FACILITY ID-MILE = MOKC
1028         KM  LINING = RCB
1029         KM  REVISED FROM 2008 MPU
1030         RD    5450  0.0339   0.015       0    TRAP      20       0
             *
1                                        HEC-1 INPUT                                                    PAGE 29

LINE         ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

1031         KK  NW35-C
1032         KM   PROPOSED ULTIMATE CONDITION MPA BASIN
1033         BA   .3447
1034         PB    2.93
1035         LS       0    90.5
1036         UD   0.291
             *

1037         KK  CNW35C
1038         KM   COMBINE NW35-C AND CNW21-C
1039         HC       2
             *

1040         KK    CKC5
1041         KM   COMBINE HU-IR, CNW35C
1042         HC       2
             *

1043         KK  NW50-C
1044         KM   PROPOSED ULTIMATE CONDITION MPA BASIN
1045         BA   .1677
1046         PB    2.92
1047         LS       0    87.8
1048         UD   0.179
             *

1049         KK    CKC6
1050         KM   COMBINE CKC5, NW50-C
1051         HC       2
             *

1052         KK  OFF1A-1
1053         KM  REFERENCED FROM 2008 MPU
1054         BA   1.144
1055         PB    3.40
1056         LS       0    77.0
1057         UD   0.546
```

```
                *
1058            KK  ROFF1A-1
1059            KM  ROUTE OFF1A-1 TO COFF1A-2
1060            KM  GRAND TETON
1061            KM  REFERENCED FROM 2008 MPU
1062            RD    2600  0.0392   0.016       0    TRAP       0      50
                *
1063            KK  OFF1A-2
1064            KM  REFERENCED FROM 2008 MPU
1065            BA   0.387
1066            PB    3.36
1067            LS       0    84.1
1068            UD   0.268
                *
1                                        HEC-1 INPUT                                                    PAGE 30

LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1069            KK  COFF1A-2
1070            KM  COMBINE ROFF1A-1 AND OFF1A-2
1071            KM  GRAND TETON AND SCOTTIE
1072            KM  REFERENCED FROM 2008 MPU
1073            HC       2
                *
1074            KK  RCFF1A-2
1075            KM  ROUTE COFF1A-2 TO OFF1A-3
1076            KM  SCOTTIE AND RACEL
1077            KM  REFERENCED FROM 2008 MPU
1078            RD    3600  0.0333   0.016       0    TRAP       0      50
                *
1079            KK  OFF1A-3
1080            KM  REFERENCED FROM 2008 MPU
1081            BA   0.303
1082            PB    3.34
1083            LS       0    83.0
1084            UD   0.319
                *
1085            KK  COFF1A-3
1086            KM  COMBINE RCFF1A-2 AND OFF1A-3
1087            KM  RACEL AND HURTADO
1088            KM  REFERENCED FROM 2008 MPU
1089            HC       2
                *
1090            KK  RCFF1A-3
1091            KM  ROUTE COFF1A-3 TO COFF1A-4
1092            KM  HURTADO AND HORSE
1093            KM  REFERENCED FROM 2008 MPU
1094            RD    3900  0.0308   0.016       0    TRAP       0      50
                *
1095            KK  OFF1A-4
1096            KM  REFERENCED FROM 2008 MPU
1097            BA   0.274
1098            PB    3.29
1099            LS       0    79.8
1100            UD   0.295
                *
1101            KK  COFF1A-4
1102            KM  COMBINE RCFF1A-3 AND OFF1A-4
1103            KM  HORSE AND REYMORE
1104            KM  REFERENCED FROM 2008 MPU
1105            HC       2
                *
1                                        HEC-1 INPUT                                                    PAGE 31

LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1106            KK  RCFF1A-4
1107            KM  ROUTE COFF1A-4 TO COFF1A-5
1108            KM  HORSE AND UNKNOWN STREET
1109            KM  REFERENCED FROM 2008 MPU
1110            RD    5100  0.0255   0.016       0    TRAP       0      50
                *
1111            KK  OFF1A-5
1112            KM  REFERENCED FROM 2008 MPU
1113            BA   0.418
1114            PB    3.21
1115            LS       0    78.9
1116            UD   0.354
                *
1117            KK  COFF1A-5
1118            KM  COMBINE RCFF1A-4 AND OFF1A-5
1119            KM  REFERENCED FROM 2008 MPU
1120            HC       2
                *
1121            KK  ROFF1A-5
1122            KM  ROUTE COFF1A-5 TO COFF2A
1123            KM  IRON MOUNTAIN
1124            KM  REFERENCED FROM 2008 MPU
1125            RD    2600  0.0288   0.016       0    TRAP       0      50
                *
1126            KK   OFF2A
1127            KM  REFERENCED FROM 2008 MPU
1128            BA   0.318
1129            PB    3.16
1130            LS       0    79.0
1131            UD   0.303
                *
1132            KK  COFF2A
1133            KM  COMBINE RCFF1A-5 AND OFF2A
1134            KM  REFERENCED FROM 2008 MPU
1135            HC       2
                *
1136            KK  RCOFF2A
1137            KM  ROUTE COFF2A AND COFF3
1138            KM  IRON MOUNTAIN
1139            KM  REFERENCED FROM 2008 MPU
1140            RD    2600  0.0333   0.016       0    TRAP       0      50
                *
1                                        HEC-1 INPUT                                                    PAGE 32

LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1141            KK    OFF3
1142            KM  REFERENCED FROM 2008 MPU
1143            BA   0.222
1144            PB    3.11
1145            LS       0    79.0
1146            UD   0.272
                *
```

```
KK  COFF3
KM  COMBINE RCOFF2A AND OFF3
KM  REFERENCED FROM 2008 MPU
HC       2
*

KK  RCOFF3
KM  ROUTE COFF3 AND COFF2B
KM  FACILITY = MOCCASIN AND SHEEP MOUNTAIN
KM  FACILITY ID-MILE = MOSH 0053
KM  LINING = CONCRETE
KM  REFERENCED FROM 2008 MPU
RD    2640  0.0139   0.015       0    TRAP      12       0
*

KK  OFF2B
KM  REFERENCED FROM 2008 MPU
BA   0.160
PB    3.06
LS       0    77.0
UD   0.216
*

KK  COFF2B
KM  COMBINE RCOFF3 AND OFF2B
KM  REFERENCED FROM 2008 MPU
HC       2
*

KK  RCOFF2B
KM  ROUTE COFF2B TO COFF1A-6
KM  FACILITY = MOCCASIN AND SHEEP MOUNTAIN
KM  FACILITY ID-MILE = MOSH 0000
KM  LINING = CONCRETE
KM  REFERENCED FROM 2008 MPU
RD    2640  0.0271   0.015       0    TRAP      12       0
*

KK  OFF1A-6
KM  REFERENCED FROM 2008 MPU
BA   0.473
PB    3.05
LS       0    77.0
UD   0.355
*
```



```
LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

KK  COFF1A-6
KM  COMBINE RCOFF2B AND OFF1A-6
KM  REFERENCED FROM 2008 MPU
HC       2
*

KK  RCFF1A-6
KM  ROUTE COFF1A-6 TO 2CNW5-C
KM  FACILITY = LAS VEGAS WASH - MOCCASIN
KM  FACILITY ID-MILE = LVMO 0494
KM  LINING = CONCRETE
KM  REFERENCED FROM 2008 MPU
RD    2800  0.0288   0.015       0    TRAP      16       0
*

KK  NW2-C
KM  REFERENCED FROM 2008 MPU
BA   0.395
PB    3.04
LS       0    82.1
UD   0.351
*

KK  RNW2-C
KM  ROUTE NW2-C TO CNW5-C
KM  RANTOOL
KM  REFERENCED FROM 2008 MPU
RD    2600   0.025   0.016       0    TRAP       0      50
*

KK  NW5-C
KM  REFERENCED FROM 2008 MPU
BA   0.274
PB    2.96
LS       0    79.7
UD   0.419
*

KK  CNW5-C
KM  COMBINE RNW2-C AND NW5-C
KM  REFERENCED FROM 2008 MPU
HC       2
*

KK  2CNW5-C
KM  COMBINE RCFF1A-6 AND CNW5-C
KM  REFERENCED FROM 2008 MPU
HC       2
*
```



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LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

KK  RCNW5-C
KM  ROUTE 2CNW5-C TO 2CNW11-C
KM  FACILITY = LAS VEGAS WASH - MOCCASIN
KM  FACILITY ID-MILE = LVMO 0445
KM  LINING = CONCRETE
KM  REFERENCED FROM 2008 MPU
RD    2600  0.0288   0.015       0    TRAP      16       0
*

KK  NW9-C
KM  REFERENCED FROM 2008 MPU
BA   0.272
PB    2.99
LS       0    87.1
UD   0.295
*

KK  RNW9-C
KM  ROUTE NW9-C TO CNW11-C
KM  WITCH MOUNTAIN
KM  REFERENCED FROM 2008 MPU
RD    2600  0.0192   0.016       0    TRAP       0      50
*

KK  NW11-C
KM  REFERENCED FROM 2008 MPU
BA   0.270
PB    2.93
LS       0    80.6
UD   0.275
*

KK  CNW11-C
```

```
1242          KM  COMBINE RNW9-C AND NW11-C
1243          KM  WITCH MOUNTAIN AND MOCCASIN
1244          KM  REFERENCED FROM 2008 MPU
1245          HC       2
              *

1246          KK  2CNW11-C
1247          KM  COMBINE RCNW5-C AND CNW11-C
1248          KM  WITCH MOUNTAIN AND MOCCASIN
1249          KM  REFERENCED FROM 2008 MPU
1250          HC       2
              *

1251          KK  RCNW11-C
1252          KM  ROUTE 2CNW11-C TO CNW17-C
1253          KM  FACILITY = LAS VEGAS WASH - MOCCASIN
1254          KM  FACILITY ID-MILE = LVMO 0396
1255          KM  LINING = CONCRETE
1256          KM  REFERENCED FROM 2008 MPU
1257          RD    2600  0.0327   0.015       0    TRAP      16       0
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9.....10

1258          KK  NW17-C
1259          KM  REFERENCED FROM 2008 MPU
1260          BA   0.429
1261          PB    2.89
1262          LS       0    86.4
1263          UD   0.357
              *

1264          KK  CNW17-C
1265          KM  COMBINE RCNW11-C AND NW17-C
1266          KM  RUFUS AND MOCCASIN
1267          KM  REFERENCED FROM 2008 MPU
1268          HC       2
              *

1269          KK  RCNW17-C
1270          KM  ROUTE CNW17-C TO CNW23-C
1271          KM  FACILITY = LAS VEGAS WASH AND MOCCASIN
1272          KM  FACILITY ID-MILE = LVMO 0346
1273          KM  LINING = CONCRETE
1274          KM  REFERENCED FROM 2008 MPU
1275          RD    2600  0.0287   0.015       0    TRAP      16       0
              *

1276          KK  NW23-C
1277          KM  REFERENCED FROM 2008 MPU
1278          BA   0.376
1279          PB    2.84
1280          LS       0    87.1
1281          UD   0.330
              *

1282          KK  CNW23-C
1283          KM  COMBINE RCNW17-C AND NW23-C
1284          KM  MAINWAL AND MOCCASIN
1285          KM  REFERENCED FROM 2008 MPU
1286          HC       2
              *

1287          KK  RCNW23-C
1288          KM  ROUTE CNW23-C TO 2C213B-5
1289          KM  FACILITY = LAS VEGAS WASH AND MOCCASIN
1290          KM  FACILITY ID-MILE = LVMO 0280
1291          KM  LINING = CONCRETE
1292          KM  REFERENCED FROM 2008 MPU
1293          RD    3500  0.0286   0.015       0    TRAP      16       0
              *

1294          KK  NW51-C
1295          KM   PROPOSED ULTIMATE CONDITION MPA BASIN
1296          BA   .4950
1297          PB    2.93
1298          LS       0    87.1
1299          UD   0.342
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9.....10

1300          KK  CNW51-C
1301          KM   COMBINE NW51-C AND CNW23-C
1302          HC       2
              *

1303          KK     202
1304          KM  REFERENCED FROM 2008 MPU
1305          BA   5.550
1306          PB    4.19
1307          LS       0    80.0
1308          UD   0.438
              *

1309          KK    R202
1310          KM  ROUTE 202 TO C203
1311          KM  NATURAL WASH
1312          KM  TRAVEL LENGTH = 13,500
1313          KM  SLOPE = 5.3%
1314          KM  N = 0.040
1315          KM  HYDRAULIC RADIUS = 1.5
1316          KM  VELOCITY = 18.0
1317          KM  REFERENCED FROM 2008 MPU
1318          RM       3   0.209    0.15
              *

1319          KK     203
1320          KM  REFERENCED FROM 2008 MPU
1321          BA   6.405
1322          PB    4.20
1323          LS       0    80.0
1324          UD   0.561
              *

1325          KK     204
1326          KM  REFERENCED FROM 2008 MPU
1327          BA   2.712
1328          PB    4.04
1329          LS       0    80.0
1330          UD   0.521
              *

1331          KK    C203
1332          KM  COMBINE R202, 203 AND 204
1333          KM  REFERENCED FROM 2008 MPU
1334          HC       3
              *

1335          KK   RC203
1336          KM  ROUTE C203 TO C209-A
1337          KM  NATURAL WASH
1338          KM  TRAVEL LENGTH = 26,500
```

```
1339          KM  SLOPE = 5.4%
1340          KM  N = 0.040
1341          KM  HYDRAULIC RADIUS = 1.5
1                                        HEC-1 INPUT                                        PAGE 37

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9.....10

1342          KM  VELOCITY = 18.1
1343          KM  REFERENCED FROM 2008 MPU
1344          RM       5   0.406    0.15
              *

1345          KK   209-A
1346          KM  REFERENCED FROM 2008 MPU
1347          BA   5.196
1348          PB    4.00
1349          LS       0    69.0
1350          UD   0.900
              *

1351          KK  C209-A
1352          KM  COMBINE RC203 AND 209-A
1353          KM  REFERENCED FROM 2008 MPU
1354          HC       2
              *

1355          KK  210-C
1356          KM  REFERENCED FROM 2008 MPU
1357          BA  12.044
1358          PB    3.84
1359          LS       0    77.0
1360          UD   0.960
              *

1361          KK  C210-C
1362          KM  COMBINE C209-A AND 210-C
1363          KM  REFERENCED FROM 2008 MPU
1364          HC       2
              *

1365          KK  RC210-C
1366          KM  ROUTE C210-C TO C210-A
1367          KM  NATURAL WASH
1368          KM  TRAVEL LENGTH = 5,000
1369          KM  SLOPE = 4.4%
1370          KM  N = 0.040
1371          KM  HYDRAULIC RADIUS = 1.5
1372          KM  VELOCITY = 16.4
1373          KM  REFERENCED FROM 2008 MPU
1374          RM       1   0.085    0.15
              *

1375          KK   210-A
1376          KM  REFERENCED FROM 2008 MPU
1377          BA   2.523
1378          PB    3.58
1379          LS       0    77.0
1380          UD   0.541
              *
1                                        HEC-1 INPUT                                        PAGE 38

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9.....10

1381          KK  C210-A
1382          KM  COMBINE RC210-C AND 210-A
1383          KM  REFERENCED FROM 2008 MPU
1384          HC       2
              *

1385          KK  RC210-A
1386          KM  ROUTE C210-A TO C209-B
1387          KM  NATURAL WASH
1388          KM  TRAVEL LENGTH = 8,000
1389          KM  SLOPE = 3.8%
1390          KM  N = 0.040
1391          KM  HYDRAULIC RADIUS = 1.5
1392          KM  VELOCITY = 15.2
1393          KM  REFERENCED FROM 2008 MPU
1394          RM       2   0.146    0.15
              *

1395          KK   209-B
1396          KM  REFERENCED FROM 2008 MPU
1397          BA   1.622
1398          PB    3.53
1399          LS       0    69.0
1400          UD   0.619
              *

1401          KK  C209-B
1402          KM  COMBINE RC210-A AND 209-B
1403          KM  REFERENCED FROM 2008 MPU
1404          HC       2
              *

1405          KK  RC209-B
1406          KM  ROUTE C209-B TO C213A-1
1407          KM  NATURAL WASH
1408          KM  TRAVEL LENGTH = 20,500
1409          KM  SLOPE = 4.1%
1410          KM  N = 0.040
1411          KM  HYDRAULIC RADIUS = 1.5
1412          KM  VELOCITY = 15.8
1413          KM  REFERENCED FROM 2008 MPU
1414          RM       4    0.36    0.15
              *

1415          KK  213A-1
1416          KM  REFERENCED FROM 2008 MPU
1417          BA   2.970
1418          PB    3.39
1419          LS       0    77.0
1420          UD   0.852
              *
1                                        HEC-1 INPUT                                        PAGE 39

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9.....10

1421          KK  C213A-1
1422          KM  COMBINE RC209-B AND 213A-1
1423          KM  REFERENCED FROM 2008 MPU
1424          HC       2
              *

1425          KK  RC213A-1
1426          KM  ROUTE C213A-1 TO C213A-2
1427          KM  IRON MOUNTAIN
1428          KM  REFERENCED FROM 2008 MPU
1429          RD    4600  0.0326   0.016       0    TRAP       0       50
              *

1430          KK  213A-2
1431          KM  REFERENCED FROM 2008 MPU
1432          BA   0.500
1433          PB    3.28
```

```
1434          LS       0    78.9
1435          UD   0.345
              *

1436          KK  C213A-2
1437          KM  ROUTE RC213A-1 AND 213A-2
1438          KM  IRON MOUNTAIN AND SCOTTIE
1439          KM  REFERENCED FROM 2008 MPU
1440          HC       2
              *

1441          KK  RC213A-2
1442          KM  ROUTE C213A-2 TO C213A-3
1443          KM  IRON MOUNTAIN
1444          KM  REFERENCED FROM 2008 MPU
1445          RD    2600  0.0269   0.016       0    TRAP       0      50
              *

1446          KK  213A-3
1447          KM  REFERENCED FROM 2008 MPU
1448          BA   0.371
1449          PB    3.26
1450          LS       0    79.0
1451          UD   0.319
              *

1452          KK  C213A-3
1453          KM  COMBINE RC213A-2 TO 213A-3
1454          KM  IRON MOUNTAIN AND HURTADO
1455          KM  REFERENCED FROM 2008 MPU
1456          HC       2
              *
1                                        HEC-1 INPUT                                                    PAGE 40

              LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1457          KK  RC213A-3
1458          KM  ROUTE C213A-3 TO C213A-4
1459          KM  IRON MOUNTAIN
1460          KM  REFERENCED FROM 2008 MPU
1461          RD    2600  0.0346   0.016       0    TRAP       0      50
              *

1462          KK  213A-4
1463          KM  REFERENCED FROM 2008 MPU
1464          BA   0.251
1465          PB    3.21
1466          LS       0    78.6
1467          UD   0.281
              *

1468          KK  C213A-4
1469          KM  COMBINE RC213A-3 AND 213A-4
1470          KM  IRON MOUNTAIN AND REYMORE
1471          KM  REFERENCED FROM 2008 MPU
1472          HC       2
              *

1473          KK  RC213A-4
1474          KM  ROUTE C213A-4 TO C213A-5
1475          KM  NATURAL WASH
1476          KM  TRAVEL LENGTH = 13,000
1477          KM  SLOPE = 3.5%
1478          KM  N = 0.040
1479          KM  HYDRAULIC RADIUS = 1.5
1480          KM  VELOCITY = 14.6
1481          KM  REFERENCED FROM 2008 MPU
1482          RM       3   0.247    0.15
              *

1483          KK  213A-5
1484          KM  REFERENCED FROM 2008 MPU
1485          BA   2.058
1486          PB    3.06
1487          LS       0    77.0
1488          UD   0.703
              *

1489          KK  C213A-5
1490          KM  COMBINE RC213A-4 AND 213A-5
1491          KM  REFERENCED FROM 2008 MPU
1492          HC       2
              *

1493          KK  RC213A-5
1494          KM  ROUTE C213A-5 TO C213A-10
1495          KM  REFERENCED FROM 2008 MPU
1496          RD    2600  0.0288   0.016       0    TRAP       0      50
              *
1                                        HEC-1 INPUT                                                    PAGE 41

              LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1497          KK  213A-10
1498          KM  REFERENCED FROM 2008 MPU
1499          BA   0.252
1500          PB    2.91
1501          LS       0    94.7
1502          UD   0.256
              *

1503          KK  C213A-10
1504          KM  COMBINE RC213A-5 AND 213A-10
1505          KM  REFERENCED FROM 2008 MPU
1506          HC       2
              *

1507          KK  RC13A-10
1508          KM  ROUTE C213A-10 TO C213A-11
1509          KM  REFERENCED FROM 2008 MPU
1510          RD    2600  0.0288   0.016       0    TRAP       0      50
              *

1511          KK  213A-11
1512          KM  REFERENCED FROM 2008 MPU
1513          BA   0.256
1514          PB    2.83
1515          LS       0    95.0
1516          UD   0.250
              *

1517          KK  C213A-11
1518          KM  COMBINE RC13A-10 AND 213A-11
1519          KM  REFERENCED FROM 2008 MPU
1520          HC       2
              *

1521          KK  RC13A-11
1522          KM  ROUTE C213A-11 TO C213B-6
1523          KM  REFERENCED FROM 2008 MPU
1524          RD    2600  0.0231   0.016       0    TRAP       0      50
              *

1525          KK  213B-6
1526          KM  REFERENCED FROM 2008 MPU
```

```
1527          BA   0.244
1528          PB    2.78
1529          LS       0    95.0
1530          UD   0.255
              *

1531          KK  C213B-6
1532          KM  COMBINE RC13A-11 TO 213B-6
1533          KM  REFERENCED FROM 2008 MPU
1534          HC       2
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9.....10

1535          KK  RC213B-6
1536          KM  ROUTE C213B-6 TO 2C213A-9
1537          KM  REFERENCED FROM 2008 MPU
1538          RD    1100  0.0318   0.016       0    TRAP       0      50
              *

1539          KK  2C213A-9
1540          KM  COMBINE RC213B-6 AND C213A-9
1541          KM  REFERENCED FROM 2008 MPU
1542          HC       2
              *

1543          KK  RC213A-9
1544          KM  ROUTE C213A-9 TO C213B-7
1545          KM  FACILITY = RANCHO/ MOCCASIN
1546          KM  FACILITY ID-MILE = MORC 0070
1547          KM  LINING = CONCRETE
1548          KM  REFERENCED FROM 2008 MPU
1549          RD    3700  0.0080   0.015       0    TRAP      34       0
              *

1550          KK  213B-7
1551          KM  REFERENCED FROM 2008 MPU
1552          BA   0.249
1553          PB    2.77
1554          LS       0    94.5
1555          UD   0.320
              *

1556          KK  C213B-7
1557          KM  COMBINE RC213A-9 AND 231B-7
1558          KM  REFERENCED FROM 2008 MPU
1559          HC       2
              *

1560          KK  213B-1
1561          KM  REFERENCED FROM 2008 MPU
1562          BA   0.261
1563          PB    2.92
1564          LS       0    94.7
1565          UD   0.251
              *

1566          KK  RC213B-1
1567          KM  ROUTE 213B-1 TO C213B-2
1568          KM  REFERENCED FROM 2008 MPU
1569          RD    2600  0.0288   0.016       0    TRAP       0      50
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9.....10

1570          KK  213B-2
1571          KM  REFERENCED FROM 2008 MPU
1572          BA   0.262
1573          PB    2.87
1574          LS       0    95.0
1575          UD   0.248
              *

1576          KK  C213B-2
1577          KM  COMBINE R213B-1 AND 213B-2
1578          KM  REFERENCED FROM 2008 MPU
1579          HC       2
              *

1580          KK  RC213B-2
1581          KM  ROUTE C213B-2 TO C213B-3
1582          KM  REFERENCED FROM 2008 MPU
1583          RD    2600  0.0269   0.016       0    TRAP       0      50
              *

1584          KK  213B-3
1585          KM  REFERENCED FROM 2008 MPU
1586          BA   0.253
1587          PB    2.82
1588          LS       0    94.9
1589          UD   0.245
              *

1590          KK  C213B-3
1591          KM  ROUTE RC213B-2 AND 213B-3
1592          KM  REFERENCED FROM 2008 MPU
1593          HC       2
              *

1594          KK  RC213B-3
1595          KM  ROUTE C213B-3 TO C213B-4
1596          KM  REFERENCED FROM 2008 MPU
1597          RD    2600  0.0269   0.016       0    TRAP       0      50
              *

1598          KK  213B-4
1599          KM  REFERENCED FROM 2008 MPU
1600          BA   0.255
1601          PB    2.78
1602          LS       0    95.0
1603          UD   0.259
              *

1604          KK  C213B-4
1605          KM  COMBINE RC213B-3 AND 213B-4
1606          KM  REFERENCED FROM 2008 MPU
1607          HC       2
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9.....10

1608          KK  RC213B-4
1609          KM  ROUTE C213B-4 TO 2C213B-7
1610          KM  REFERENCED FROM 2008 MPU
1611          RD    1100  0.0318  0.0273       0    TRAP       0      50
              *

1612          KK  2C213B-7
1613          KM  COMBINE C213B-7 AND RC213B-4
1614          KM  REFERENCED FROM 2008 MPU
1615          HC       2
```

```
                *
1616            KK  RC213B-7
1617            KM  ROUTE C213B-7 TO C213B-5
1618            KM  FACILITY = RANCHO/ MOCCASIN
1619            KM  FACILITY ID-MILE = MORC 0000
1620            KM  LINING = CONCRETE
1621            KM  REFERENCED FROM 2008 MPU
1622            RD    3700  0.0100   0.015       0    TRAP      34       0
                *
1623            KK  213B-5
1624            KM  REFERENCED FROM 2008 MPU
1625            BA   0.240
1626            PB    2.77
1627            LS       0    94.3
1628            UD   0.294
                *
1629            KK  C213B5
1630            KM  COMBINE RC213B-7 AND 213B-5
1631            KM  REFERENCED FROM 2008 MPU
1632            HC       2
                *
1633            KK    OFFT
1634            BA   .0173
1635            PB    2.77
1636            LS       0    90.0
1637            UD   0.111
                *
1638            KK  SHEEP2
1639            BA   .0627
1640            PB    2.77
1641            LS       0    86.6
1642            UD    .176
                *
1                                          HEC-1 INPUT                                          PAGE 45

LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9.....10

1643            KK  SHEEP3
1644            BA   .0137
1645            PB    2.77
1646            LS       0    86.6
1647            UD    .152
                *
1648            KK   EMLA2
1649            BA   .1368
1650            PB    2.77
1651            LS       0    92.0
1652            UD    .225
                *
1653            KK   DUMMY
1654            HC       5
                *
1655            KK   ENVE1
1656            BA   .0341
1657            PB    2.77
1658            LS       0    77.0
1659            UD    .210
                *
1660            KK    OFFZ
1661            BA   .0523
1662            PB    2.77
1663            LS       0    87.0
1664            UD   0.138
                *
1665            KK   HUAL3
1666            BA   .0037
1667            PB    2.77
1668            LS       0    98.0
1669            UD    .177
                *
1670            KK   SH-MO
1671            KM   TOTAL KYLE CANYON DEVELOPMENT DISCHARGE IN SHEEP MOUNTAIN PKWY @ MOCCASIN
1672            HC       5
                *
1673            KK    SKY3
1674            BA   .0068
1675            PB    2.77
1676            LS       0    98.0
1677            UD    .146
                *
1                                          HEC-1 INPUT                                          PAGE 46

LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9.....10

1678            KK    95-6
1679            KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1680            BA   .0104
1681            PB    2.77
1682            LS       0    92.8
1683            UD   0.091
                *
1684            KK    OFFH
1685            KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1686            BA   .0074
1687            PB    2.77
1688            LS       0    92.5
1689            UD   0.076
                *
1690            KK   SK-IR
1691            KM   COMBINE SKY3, 95-6, OFFH
1692            HC       3
                *
1693            KK   EML1A
1694            BA   .0293
1695            PB    2.77
1696            LS       0    92.0
1697            UD    .124
                *
1698            KK   IRON2
1699            BA   .0041
1700            PB    2.93
1701            LS       0    98.0
1702            UD    .063
                *
1703            KK  EMLA1B
1704            BA   .0221
1705            PB    2.93
1706            LS       0    94.6
```

```
1707          UD    .104
              *

1708          KK     TP2
1709          BA   .0009
1710          PB    2.93
1711          LS       0    98.0
1712          UD    .079
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9.....10

1713          KK   IR-TP
1714          KM   COMBINE SK-IR, EML1A, IRON2, EMLA1B, TP2
1715          HC       5
              *

1716          KK     ES1
1717          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1718          BA   .0173
1719          PB    2.77
1720          LS       0    92.7
1721          UD   0.109
              *

1722          KK   IRON3
1723          BA   .0021
1724          PB    2.93
1725          LS       0    98.0
1726          UD    .062
              *

1727          KK   IR-FT
1728          KM   COMBINE IR-TP, ES1, IRON3
1729          HC       3
              *

1730          KK    FTNOR
1731          KM    FLOW SPLIT AT IRON MOUNTAIN/FORT APACHE
1732          KM    DIVERT FLOW EAST IN IRON MOUNTAIN ROAD
1733          KM    DIVERT MAX. SD FLOW + MAX. STREET FLOW (118/98 CFS) LESS THAN NWNS 235/98 CFS
1734          DT  IREAST
1735          DI       0      98     178
1736          DQ       0      98     118
              *

1737          KK  RETD1B
1738          KM   RETRIEVE FLOW FROM VTN CULVERT 1
1739          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1740          DR  DCHD1B
              *

1741          KK  RETD2B
1742          KM   RETRIEVE FLOW FROM VTN CULVERT 2
1743          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1744          DR  DCHD2B
              *

1745          KK    OFF9
1746          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1747          BA   .0424
1748          PB    2.77
1749          LS       0    92.2
1750          UD   0.186
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9.....10

1751          KK   COFF9
1752          KM   COMBINE OFF9, DCHD1C, DCHD2C
1753          HC       3
              *

1754          KK    OFFS
1755          BA   .0109
1756          PB    2.77
1757          LS       0    90.0
1758          UD   0.082
              *

1759          KK    SKY4
1760          BA   .0095
1761          PB    2.77
1762          LS       0    98.0
1763          UD    .183
              *

1764          KK   LC-SK
1765          KM   TOTAL FLOW AT INTERSECTION OF LOG CABIN AND SKY
1766          KM   FLOW ROUTED EAST IN LOG CABIN
1767          HC       3
              *

1768          KK   EML1B
1769          BA   .0749
1770          PB    2.77
1771          LS       0    92.0
1772          UD    .129
              *

1773          KK  ESCHL1
1774          BA   .0249
1775          PB    2.77
1776          LS       0    83.5
1777          UD    .126
              *

1778          KK   EPRK1
1779          BA   .0123
1780          PB    2.77
1781          LS       0    69.0
1782          UD    .122
              *

1783          KK   STRT6
1784          BA   .0055
1785          PB    2.77
1786          LS       0    98.0
1787          UD    .141
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9.....10

1788          KK   EML2A
1789          BA   .0665
1790          PB    2.77
1791          LS       0    92.0
1792          UD    .138
              *

1793          KK   DUMMY
```

```
1794          HC       5
              *

1795          KK     TP3
1796          BA   .0068
1797          PB    2.77
1798          LS       0    98.0
1799          UD    .231
              *

1800          KK     TP4A
1801          BA   .0029
1802          PB    2.77
1803          LS       0    98.0
1804          UD    .115
              *

1805          KK     LOG1
1806          BA   .0073
1807          PB    2.77
1808          LS       0    98.0
1809          UD    .088
              *

1810          KK   LC-TP
1811          KM   TOTAL FLOW AT INTERSECTION OF LOG CABIN AND TEE PEE
1812          KM   FLOW ROUTED EAST IN LOG CABIN
1813          HC       5
              *

1814          KK     EL1
1815          BA   .1161
1816          PB    2.77
1817          LS       0    82.0
1818          UD    .184
              *

1819          KK     LOG2
1820          BA   .0042
1821          PB    2.77
1822          LS       0    98.0
1823          UD    .065
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1824          KK   FORT1
1825          BA   .0091
1826          PB    2.77
1827          LS       0    98.0
1828          UD    .238
              *

1829          KK   FT-LC
1830          KM   TOTAL FLOW AT INTERSECTION OF FORT APACHE AND LOG CABIN
1831          KM   FLOW ROUTED NORTH IN FORT APACHE
1832          HC       5
              *

1833          KK   RFTLC
1834          KM   DIVERT FLOW SPLIT INTO O'HARE ROAD
1835          DT   OHARE
1836          DI       0     271     642
1837          DQ       0       0      47
              *

1838          KK  R2FTLC
1839          KM   DIVERT FLOW SPLIT INTO LOG CABIN WAY
1840          DT  LOGCAB
1841          DI       0     271     595
1842          DQ       0      73     187
              *

1843          KK   EML2B
1844          BA   .0412
1845          PB    2.77
1846          LS       0    92.0
1847          UD    .120
              *

1848          KK    TP4B
1849          BA   .0036
1850          PB    2.77
1851          LS       0    98.0
1852          UD    .085
              *

1853          KK    EML3
1854          BA   .0575
1855          PB    2.77
1856          LS       0    92.0
1857          UD    .153
              *

1858          KK   STRT7
1859          BA   .0039
1860          PB    2.77
1861          LS       0    98.0
1862          UD    .071
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1863          KK   DUMMY
1864          HC       5
              *

1865          KK    EML4
1866          BA   .0718
1867          PB    2.77
1868          LS       0    92.0
1869          UD    .153
              *

1870          KK   ENVE2
1871          BA   .0144
1872          PB    2.77
1873          LS       0    77.0
1874          UD    .157
              *

1875          KK   FORT2
1876          BA   .0090
1877          PB    2.77
1878          LS       0    98.0
1879          UD    .253
              *

1880          KK   FT-MO
1881          KM   TOTAL KYLE CANYON DEVELOPMENT DISCHARGE IN FORT APACHE @ MOCCASIN
1882          KM   FLOW ROUTED EAST ADJACENT TO MOCCASIN
1883          HC       4
              *
```

```
1884          KK    CP43
1885          KM   TOTAL KYLE CANYON DEVELOPMENT DISCHARGE IN MOCCASIN REGIONAL ALIGNMENT
1886          HC       2
              *

1887          KK   95-7A
1888          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1889          BA   .0069
1890          PB    2.77
1891          LS       0    94.7
1892          UD   0.073
              *

1893          KK   95-7B
1894          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1895          BA   .0081
1896          PB    2.77
1897          LS       0    94.7
1898          UD   0.084
              *
1                                          HEC-1 INPUT                                          PAGE 52

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1899          KK   95-8A
1900          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1901          BA   .0052
1902          PB    2.77
1903          LS       0    94.7
1904          UD   0.061
              *

1905          KK   95-8B
1906          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1907          BA   .0031
1908          PB    2.77
1909          LS       0    94.7
1910          UD   0.050
              *

1911          KK  C95-8B
1912          KM   COMBINE 95-7A, 95-7B, 95-8A, 95-8B
1913          HC       4
              *

1914          KK    SKY2
1915          BA   .0074
1916          PB    2.93
1917          LS       0    98.0
1918          UD    .099
              *

1919          KK  EMLA1A
1920          BA   .0135
1921          PB    2.93
1922          LS       0    95.0
1923          UD    .100
              *

1924          KK     TP1
1925          BA   .0009
1926          PB    2.93
1927          LS       0    98.0
1928          UD    .082
              *

1929          KK   BR-TP
1930          KM   TOTAL FLOW AT INTERSECTION OF BRENT AND TEE PEE
1931          KM   FLOW ROUTED EAST IN BRENT
1932          HC       4
              *

1933          KK     ES2
1934          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1935          BA   .0491
1936          PB    2.77
1937          LS       0    94.7
1938          UD   0.149
              *
1                                          HEC-1 INPUT                                          PAGE 53

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1939          KK  BRENT1
1940          BA   .0018
1941          PB    2.93
1942          LS       0    98.0
1943          UD    .062
              *

1944          KK    EGC3
1945          BA   .0215
1946          PB    2.93
1947          LS       0    95.0
1948          UD    .091
              *

1949          KK  HORSE5
1950          BA   .0048
1951          PB    2.93
1952          LS       0    98.0
1953          UD    .063
              *

1954          KK    CP44
1955          KM   TOTAL KYLE CANYON DEVELOPMENT DISCHARGE AT INTERSECTION OF BRENT LANE AND FOR
1956          KM   PROPOSED FLOW SPLIT INTO EXISTING STORM DRAIN SOUTH
1957          HC       5
              *

1958          KK   SOUTH
1959          KM   FLOW SPLIT AT BRENT/FT. APACHE
1960          KM   DIVERT STORM DRAIN DESIGN FLOW 65 CFS SOUTH IN FORT APACHE
1961          DT   BRENT
1962          DI       0     118     228
1963          DQ       0      68     178
              *

1964          KK    SKY1
1965          BA   .0074
1966          PB    2.93
1967          LS       0    98.1
1968          UD    .084
              *

1969          KK  HORSE4
1970          BA   .0035
1971          PB    2.93
1972          LS       0    98.0
1973          UD    .050
              *
1                                          HEC-1 INPUT                                          PAGE 54

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10
```

```
1974          KK    EGC1
1975          BA   .0076
1976          PB    2.93
1977          LS       0    95.0
1978          UD    .070
              *

1979          KK    EGC2
1980          BA   .0121
1981          PB    2.93
1982          LS       0    95.0
1983          UD    .095
              *

1984          KK   DUMMY
1985          HC       5
              *

1986          KK   95-9B
1987          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1988          BA   .0133
1989          PB    2.77
1990          LS       0    94.7
1991          UD   0.136
              *

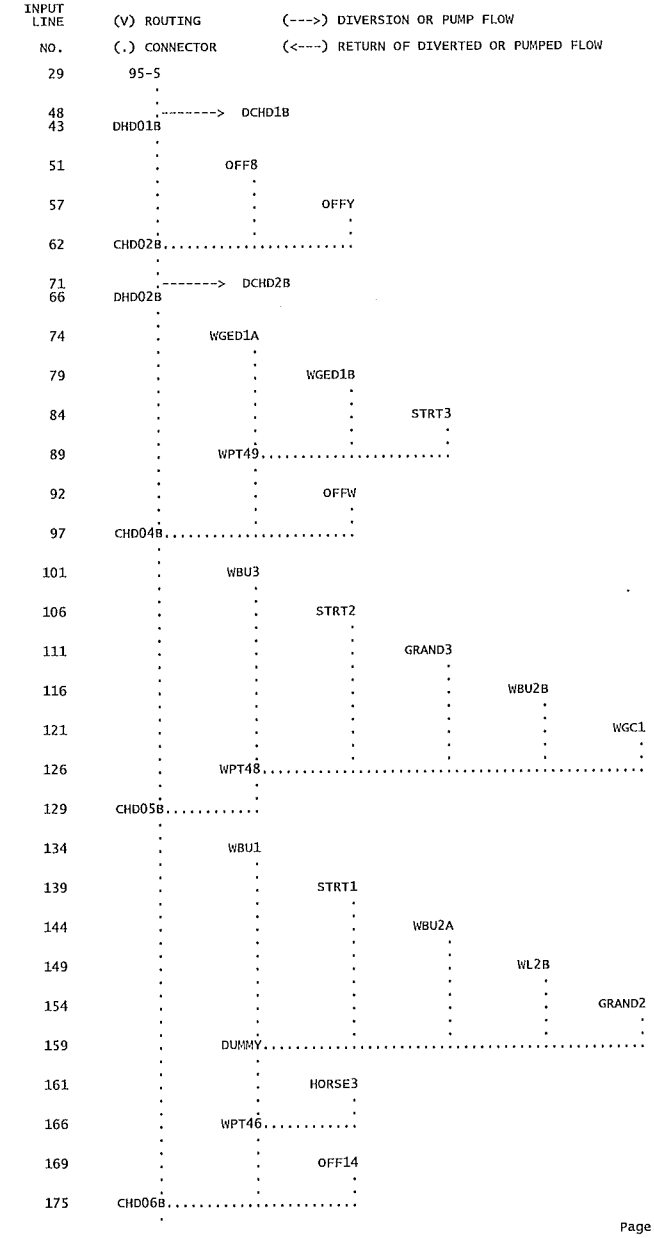
1992          KK    CP45
1993          KM   TOTAL KYLE CANYON DISCHARGE AT INTERSECTION OF FORT APACHE AND HORSE
1994          KM   PROPOSED FLOW SPLIT AT INTERSECTION
1995          HC       2
              *

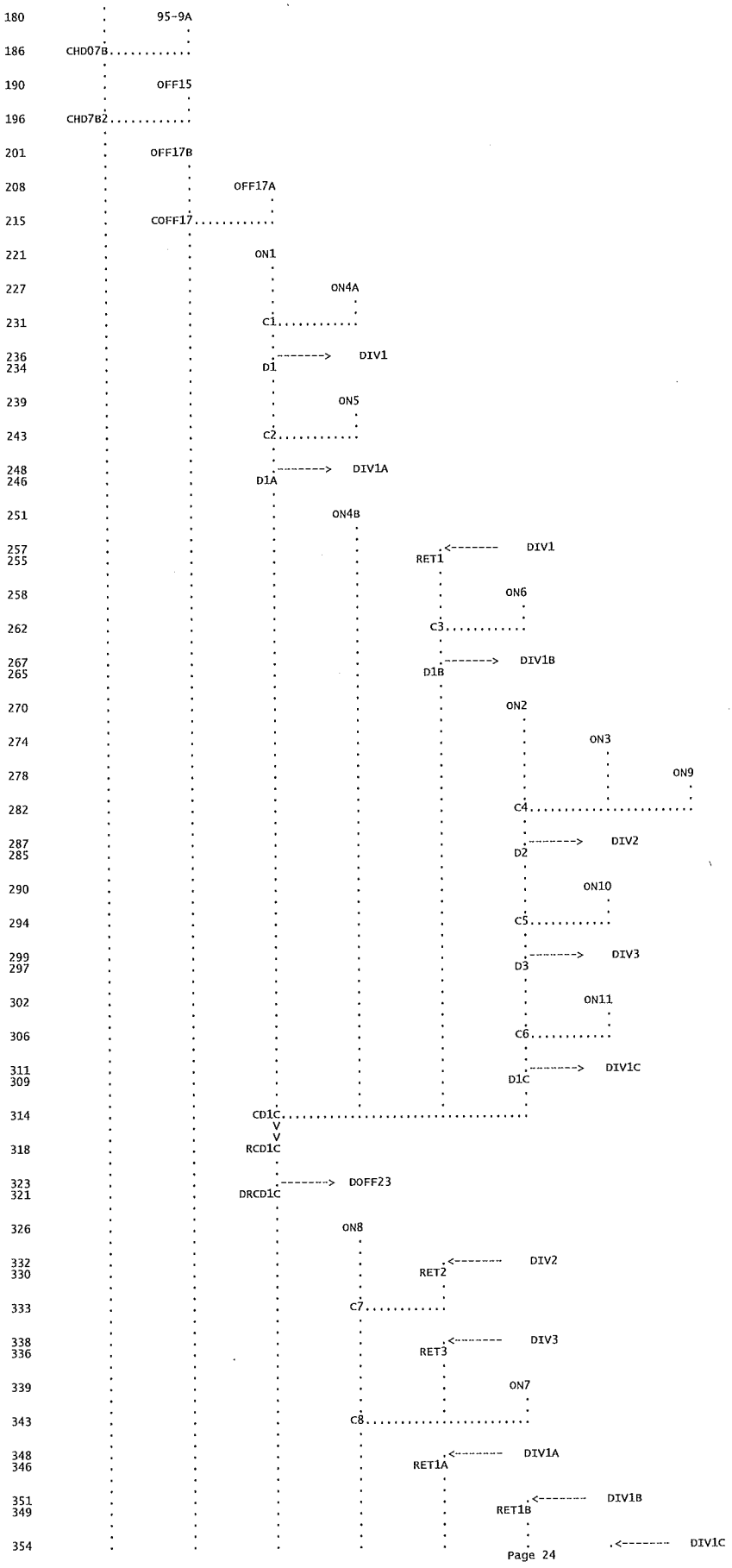
1996          KK   HORSE
1997          KM   FLOW SPLIT AT HORSE/RACEL
1998          KM   DIVERT NWNS 101 CFS SOUTH IN FORT APACHE/RACEL
1999          DT   RACEL
2000          DI       0     101    1000
2001          DQ       0     101     101
              *

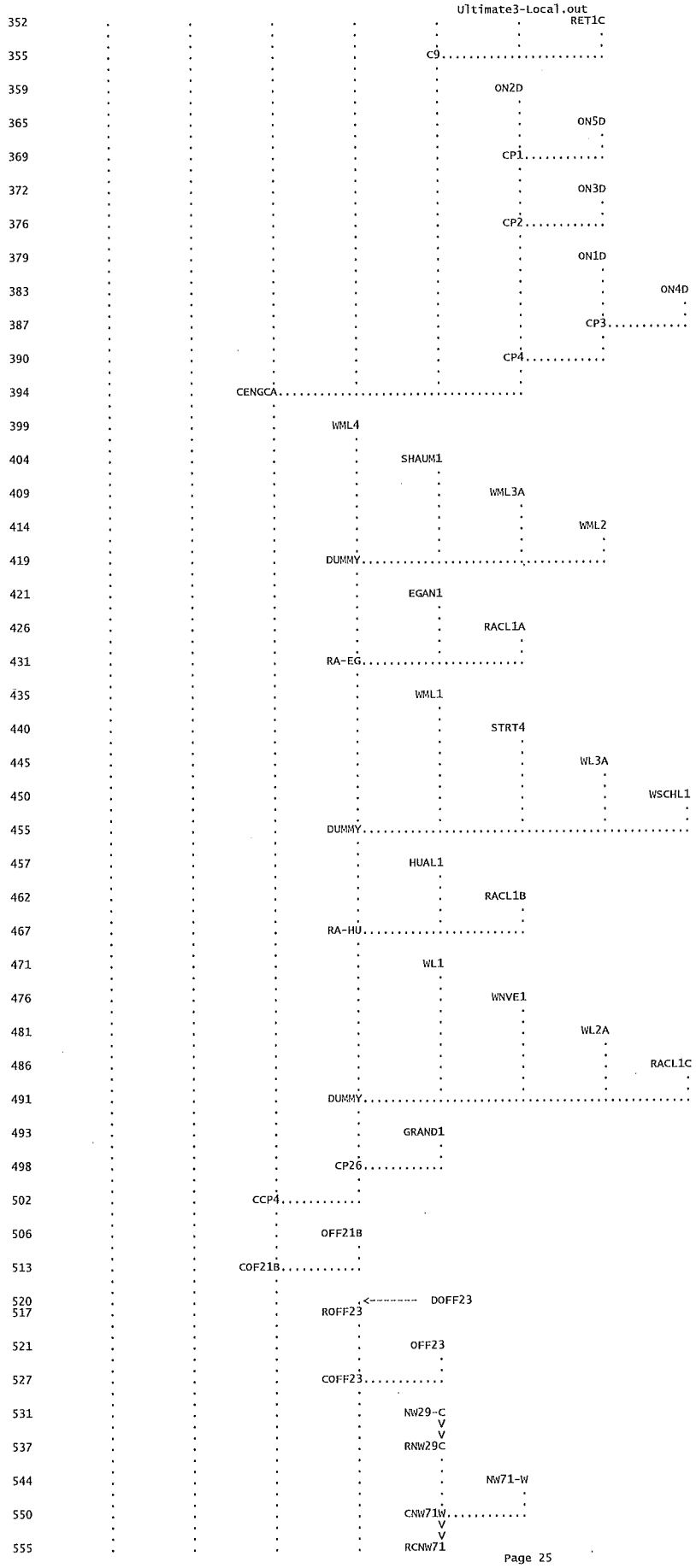
2002          ZZ
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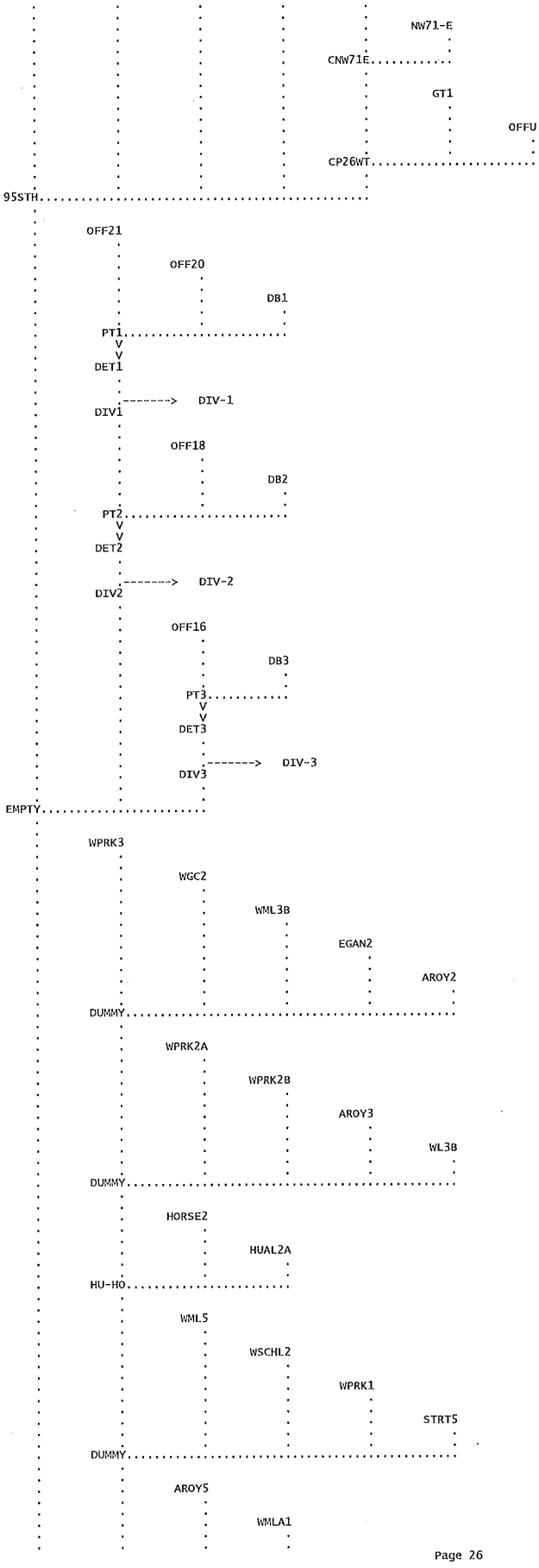
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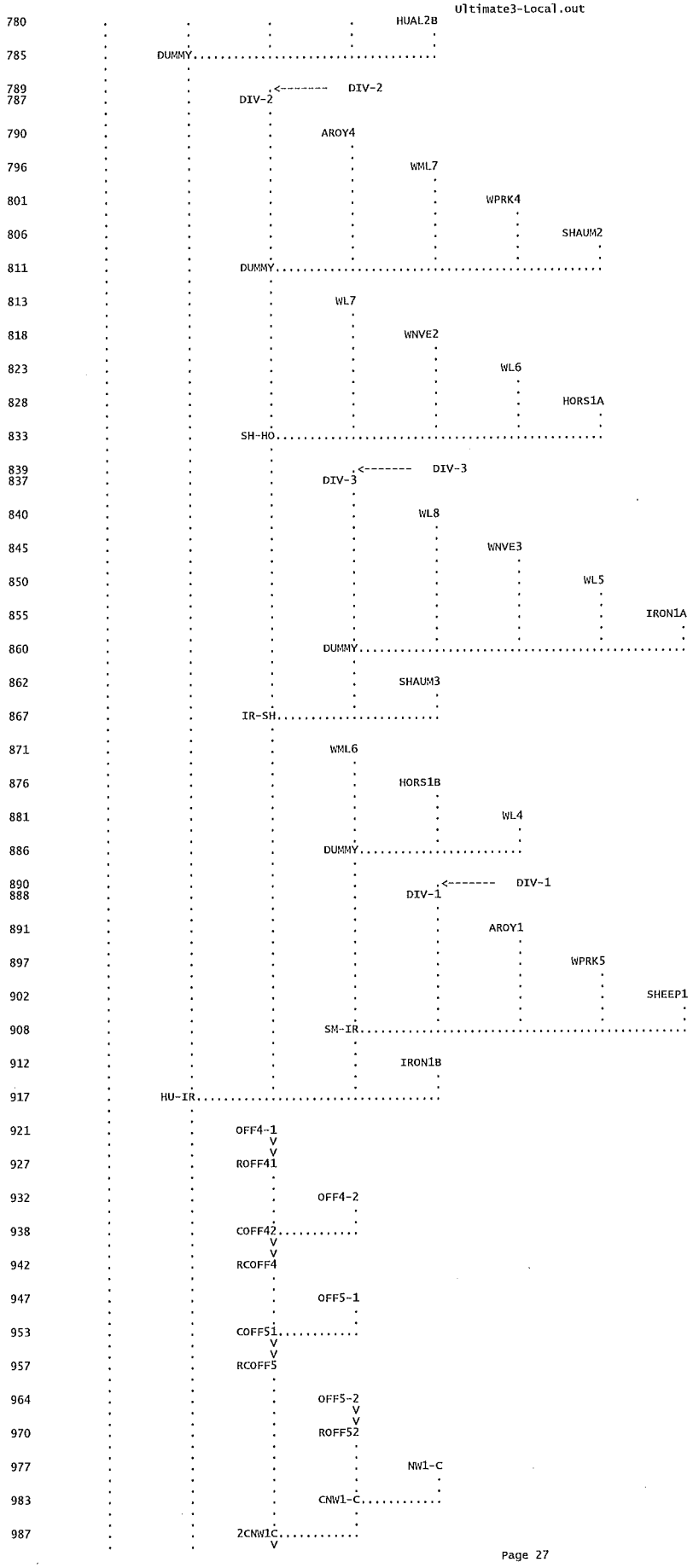
SCHEMATIC DIAGRAM OF STREAM NETWORK

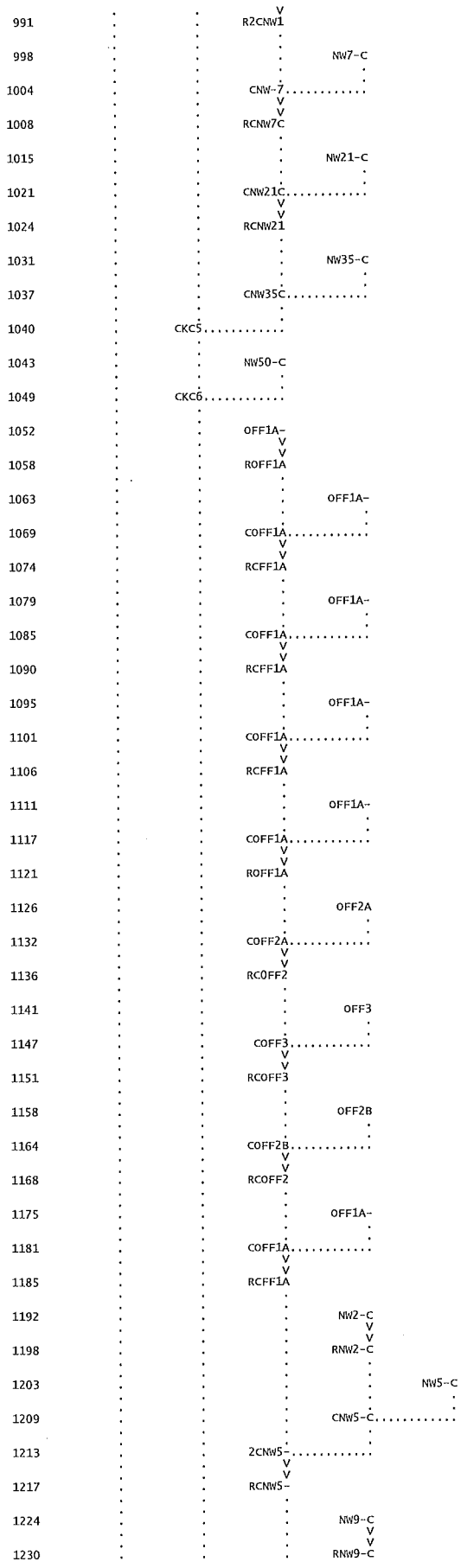


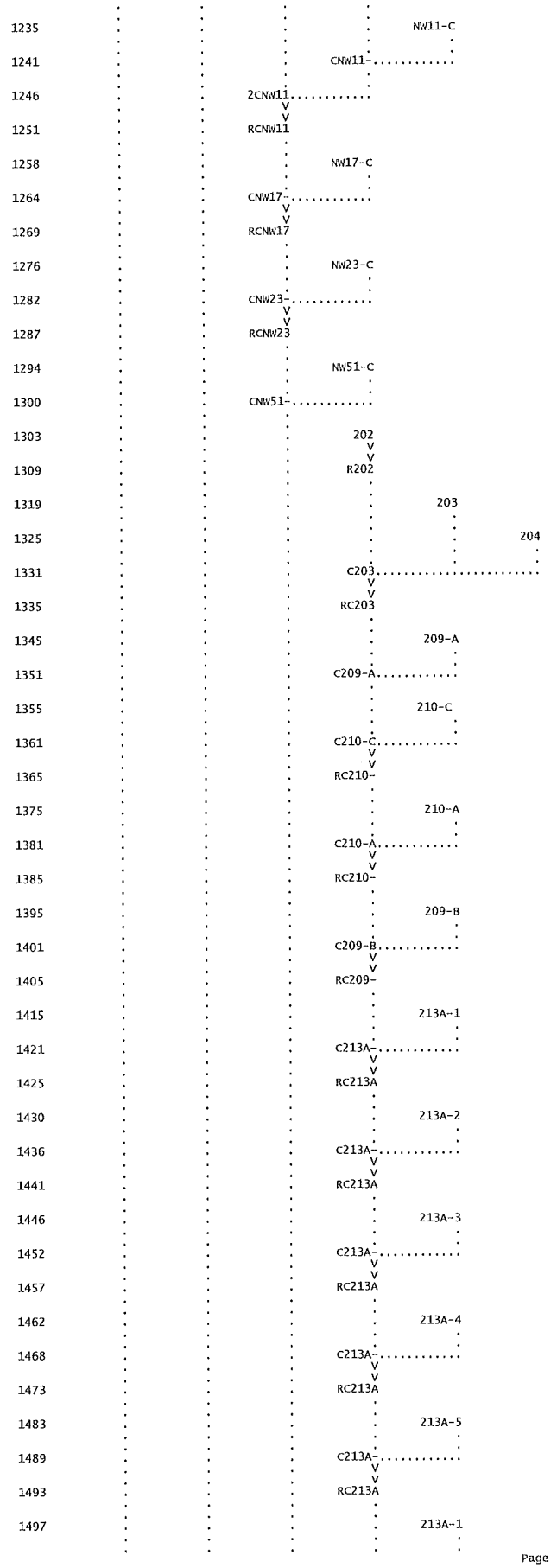

95-9A
CHD07B
OFF15
CHD7B2
OFF17B
OFF17A
COFF17
ON1
ON4A
C1
DIV1
D1
ON5
C2
DIV1A
D1A
ON4B
DIV1
RET1
ON6
C3
DIV1B
D1B
ON2
ON3
ON9
C4
DIV2
D2
ON10
C5
DIV3
D3
ON11
C6
DIV1C
D1C
CD1C
RCD1C
DOFF23
DRCD1C
ON8
DIV2
RET2
C7
DIV3
RET3
ON7
C8
DIV1A
RET1A
DIV1B
RET1B
DIV1C

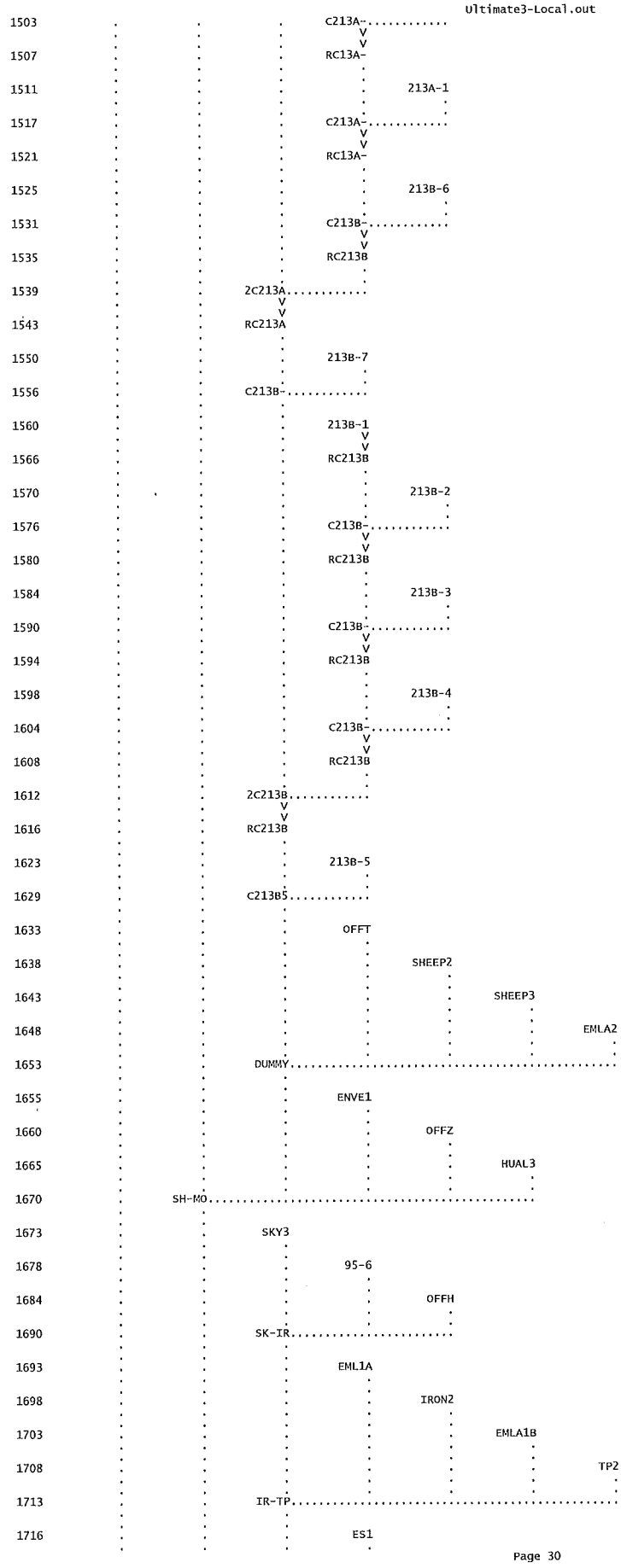

352 RET1C
355 C9
359 ON2D
365 ON5D
369 CP1
372 ON3D
376 CP2
379 ON1D
383 ON4D
387 CP3
390 CP4
394 CENGCA
399 WML4
404 SHAUM1
409 WML3A
414 WML2
419 DUMMY
421 EGAN1
426 RACL1A
431 RA-EG
435 WML1
440 STRT4
445 WL3A
450 WSCHL1
455 DUMMY
457 HUAL1
462 RACL1B
467 RA-HU
471 WL1
476 WNVE1
481 WL2A
486 RACL1C
491 DUMMY
493 GRAND1
498 CP26
502 CCP4
506 OFF21B
513 COF21B
520 <-------- DOFF23
517 ROFF23
521 OFF23
527 COFF23
531 NW29-C
537 RNW29C
544 NW71-W
550 CNW71W
555 RCNW71

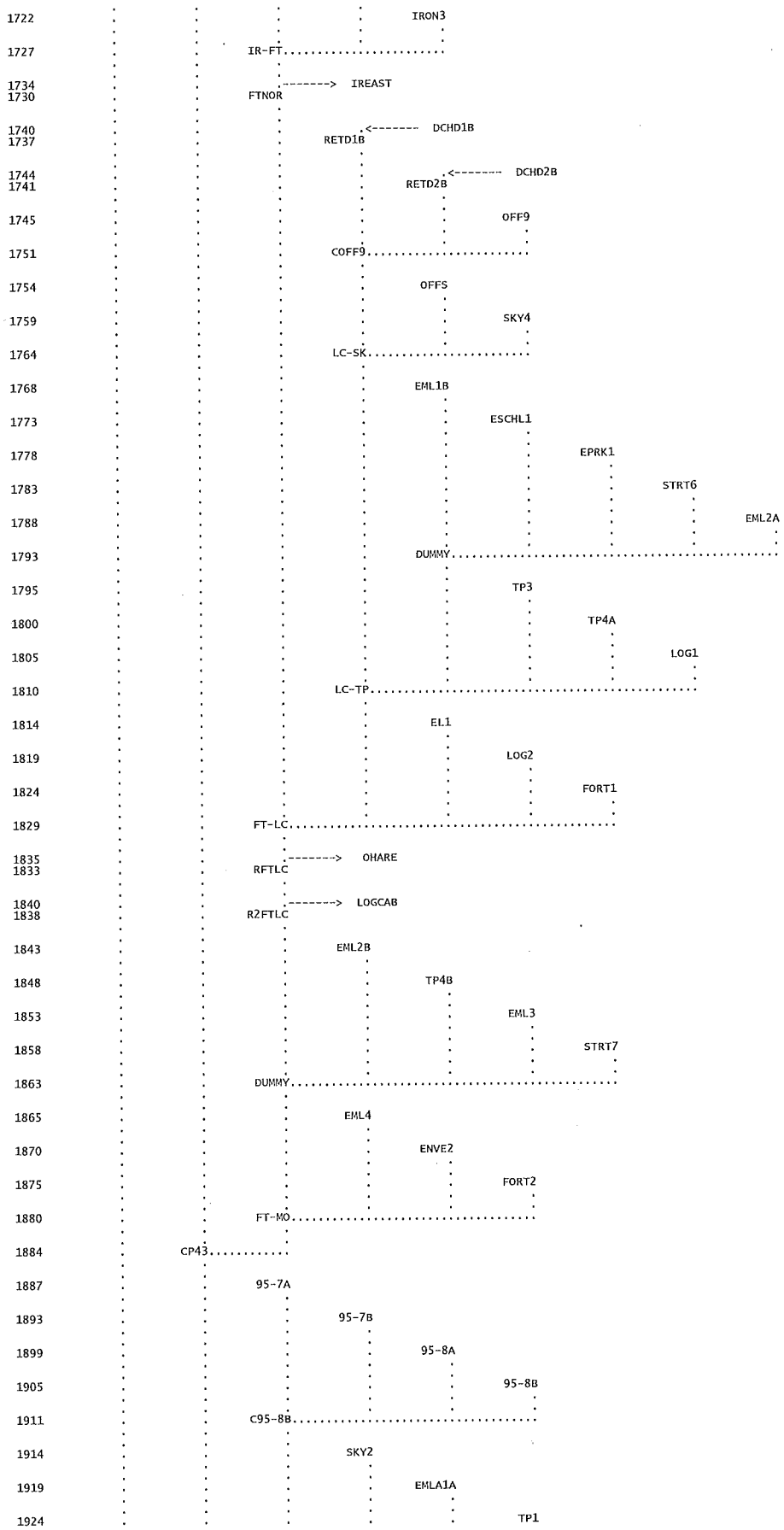

562
NW71-E
568
CNW71E
573
GT1
578
OFFU
583
CP26WT
586
95STH
591
OFF21
597
OFF20
603
DB1
609
PT1
612
DET1
623
621
DIV1
DIV-1
626
OFF18
632
DB2
638
PT2
642
DET2
652
650
DIV2
DIV-2
655
OFF16
661
DB3
667
PT3
670
DET3
680
678
DIV3
DIV-3
683
EMPTY
685
WPRK3
690
WGC2
695
WML3B
700
EGAN2
705
AROY2
710
DUMMY
712
WPRK2A
717
WPRK2B
722
AROY3
727
WL3B
732
DUMMY
734
HORSE2
739
HUAL2A
744
HU-HO
748
WML5
753
WSCHL2
758
WPRK1
763
STRT5
768
DUMMY
770
AROY5
775
WMLA1

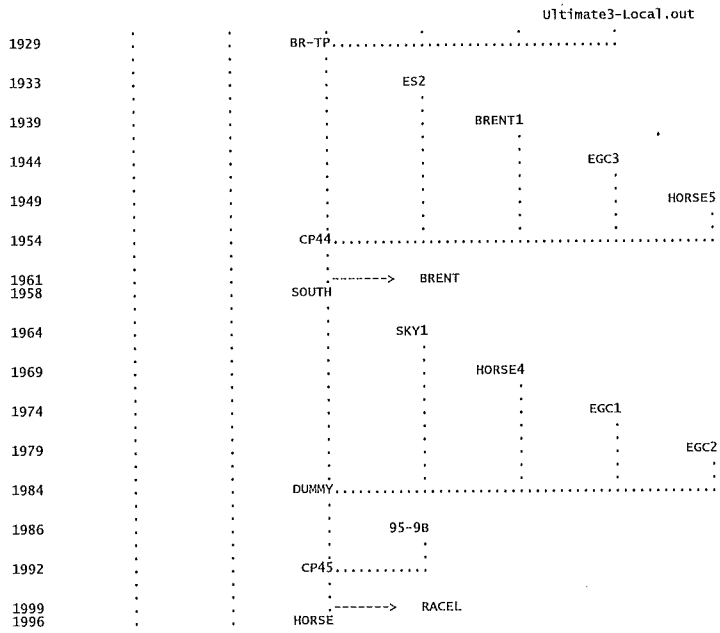

780 HUAL2B
785 DUMMY
789 <------- DIV-2
787 DIV-2
790 AROY4
796 WML7
801 WPRK4
806 SHAUM2
811 DUMMY
813 WL7
818 WNVE2
823 WL6
828 HORS1A
833 SH-HO
839 <------- DIV-3
837 DIV-3
840 WL8
845 WNVE3
850 WL5
855 IRON1A
860 DUMMY
862 SHAUM3
867 IR-SH
871 WML6
876 HORS1B
881 WL4
886 DUMMY
890 <------- DIV-1
888 DIV-1
891 AROY1
897 WPRK5
902 SHEEP1
908 SM-IR
912 IRON1B
917 HU-IR
921 OFF4-1
927 ROFF41
932 OFF4-2
938 COFF42
942 RCOFF4
947 OFF5-1
953 COFF51
957 RCOFF5
964 OFF5-2
970 ROFF52
977 NW1-C
983 CNW1-C
987 2CNW1C


991 R2CNW1
998 NW7-C
1004 CNW-7
1008 RCNW7C
1015 NW21-C
1021 CNW21C
1024 RCNW21
1031 NW35-C
1037 CNW35C
1040 CKC5
1043 NW50-C
1049 CKC6
1052 OFF1A-
1058 ROFF1A
1063 OFF1A-
1069 COFF1A
1074 RCFF1A
1079 OFF1A-
1085 COFF1A
1090 RCFF1A
1095 OFF1A-
1101 COFF1A
1106 RCFF1A
1111 OFF1A-
1117 COFF1A
1121 ROFF1A
1126 OFF2A
1132 COFF2A
1136 RCOFF2
1141 OFF3
1147 COFF3
1151 RCOFF3
1158 OFF2B
1164 COFF2B
1168 RCOFF2
1175 OFF1A-
1181 COFF1A
1185 RCFF1A
1192 NW2-C
1198 RNW2-C
1203 NW5--C
1209 CNW5-C
1213 2CNW5-
1217 RCNW5-
1224 NW9--C
1230 RNW9-C


1235
NW11-C
1241
CNW11-
1246
2CNW11
1251
RCNW11
1258
NW17-C
1264
CNW17-
1269
RCNW17
1276
NW23-C
1282
CNW23-
1287
RCNW23
1294
NW51-C
1300
CNW51-
1303
202
1309
R202
1319
203
1325
204
1331
C203
1335
RC203
1345
209-A
1351
C209-A
1355
210-C
1361
C210-C
1365
RC210-
1375
210-A
1381
C210-A
1385
RC210-
1395
209-B
1401
C209-B
1405
RC209-
1415
213A-1
1421
C213A-
1425
RC213A
1430
213A-2
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C213A-
1441
RC213A
1446
213A-3
1452
C213A-
1457
RC213A
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213A-1


1503
C213A-
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RC13A-
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1517
C213A-
1521
RC13A-
1525
213B-6
1531
C213B-
1535
RC213B
1539
2C213A
1543
RC213A
1550
213B-7
1556
C213B-
1560
213B-1
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RC213B
1570
213B-2
1576
C213B-
1580
RC213B
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213B-3
1590
C213B-
1594
RC213B
1598
213B-4
1604
C213B-
1608
RC213B
1612
2C213B
1616
RC213B
1623
213B-5
1629
C213B5
1633
OFFT
1638
SHEEP2
1643
SHEEP3
1648
EMLA2
1653
DUMMY
1655
ENVE1
1660
OFFZ
1665
HUAL3
1670
SH-MO
1673
SKY3
1678
95-6
1684
OFFH
1690
SK-IR
1693
EML1A
1698
IRON2
1703
EMLA1B
1708
TP2
1713
IR-TP
1716
ES1


1722
IRON3
1727
IR-FT
1734
1730
IREAST
FTNOR
1740
1737
DCHD1B
RETD1B
1744
1741
DCHD2B
RETD2B
1745
OFF9
1751
COFF9
1754
OFFS
1759
SKY4
1764
LC-SK
1768
EML1B
1773
ESCHL1
1778
EPRK1
1783
STRT6
1788
EML2A
1793
DUMMY
1795
TP3
1800
TP4A
1805
LOG1
1810
LC-TP
1814
EL1
1819
LOG2
1824
FORT1
1829
FT-LC
1835
1833
OHARE
RFTLC
1840
1838
LOGCAB
R2FTLC
1843
EML2B
1848
TP4B
1853
EML3
1858
STRT7
1863
DUMMY
1865
EML4
1870
ENVE2
1875
FORT2
1880
FT-MO
1884
CP43
1887
95-7A
1893
95-7B
1899
95-8A
1905
95-8B
1911
C95-8B
1914
SKY2
1919
EMLA1A
1924
TP1



(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

```
1*****************************************
*                                       *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
*             JUN  1998                 *
*           VERSION 4.1                 *
*                                       *
*  RUN DATE   08DEC11  TIME  14:43:26   *
*                                       *
*****************************************
```

```
*****************************************
*                                       *
*    U.S. ARMY CORPS OF ENGINEERS       *
*    HYDROLOGIC ENGINEERING CENTER      *
*          609 SECOND STREET            *
*       DAVIS, CALIFORNIA 95616         *
*         (916) 756-1104                *
*                                       *
*****************************************
```

SLATER HANIFAN GROUP
CARWIN ADVISORS
KYLE CANYON
MASTER DRAINAGE STUDY - CLV ADDENDUM #3
ULTIMATE DRAINAGE CONDITION - LOCAL ONSITE

RETURN PERIOD ------- 100 & 10-YEAR
DISTRIBUTION -------- 6-HOUR SDN3
PROJECT NO. --------- WCP0902.003
FILENAME ------------ Ultimate3-Local.H1
DATE ---------------- 12/08/11
MODELED BY ---------- SMJ/KCR

SIX HOUR DEPTH-AREA REDUCTION FACTORS

DRAINAGE AREA (MI^2)	DARF
0.0-0.49	1.00
0.5-0.99	0.98
1.0-1.99	0.97
2.0-3.99	0.93
4.0-5.99	0.91
6.0-7.99	0.90
25-YR	0.70
10-YR	0.57

```
 26 IO          OUTPUT CONTROL VARIABLES
                     IPRNT          5  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL          0.  HYDROGRAPH PLOT SCALE

    IT          HYDROGRAPH TIME DATA
                      NMIN          5  MINUTES IN COMPUTATION INTERVAL
                     IDATE      1   0  STARTING DATE
                     ITIME       0000  STARTING TIME
                        NQ        300  NUMBER OF HYDROGRAPH ORDINATES
                    NDDATE      2   0  ENDING DATE
                    NDTIME        0055  ENDING TIME
                    ICENT          19  CENTURY MARK

                  COMPUTATION INTERVAL      .08 HOURS
                     TOTAL TIME BASE   24.92 HOURS

          ENGLISH UNITS
               DRAINAGE AREA         SQUARE MILES
               PRECIPITATION DEPTH   INCHES
               LENGTH, ELEVATION     FEET
               FLOW                  CUBIC FEET PER SECOND
               STORAGE VOLUME        ACRE-FEET
               SURFACE AREA          ACRES
               TEMPERATURE           DEGREES FAHRENHEIT

    JP          MULTI-PLAN OPTION
                     NPLAN          1  NUMBER OF PLANS

    JR          MULTI-RATIO OPTION
                   RATIOS OF PRECIPITATION
                  1.00       .98       .97       .93       .91       .90       .70       .57

*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

          ****************
          *              *
 612 KK   *      DET1    *
          *              *
          ****************

 615 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          1  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL          0.  HYDROGRAPH PLOT SCALE

                HYDROGRAPH ROUTING DATA
```

```
616 RS          STORAGE ROUTING
                    NSTPS          1  NUMBER OF SUBREACHES
                     ITYP       ELEV  TYPE OF INITIAL CONDITION
                   RSVRIC      29.50  INITIAL CONDITION
                        X        .00 WORKING R AND D COEFFICIENT

617 SA              AREA          .0        .3       3.1       5.2       6.6

618 SE          ELEVATION       29.50     30.00     32.00     34.00     41.60

619 SQ          DISCHARGE          0.       24.       85.      127.      158.

620 SE          ELEVATION       29.50     31.00     34.00     38.00     42.00
                                                        ***

                                COMPUTED STORAGE-ELEVATION DATA

                STORAGE           .00       .04      2.91     11.17     56.05
              ELEVATION         29.50     30.00     32.00     34.00     41.60

                                COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

                STORAGE           .00       .04       .76      2.91     11.17     33.42     56.05     58.72
                OUTFLOW           .00      7.87     23.62     44.14     85.18    127.22    155.35    158.48
              ELEVATION         29.50     30.00     31.00     32.00     34.00     38.00     41.60     42.00
```

****

HYDROGRAPH AT STATION DET1
PLAN 1, RATIO = 1.00

****

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	29.5	*	1		0820	101	109.	23.6	36.2	*	1		1640	201	0.	.0	29.5
1		0005	2	0.	.0	29.5	*	1		0825	102	107.	22.9	36.1	*	1		1645	202	0.	.0	29.5
1		0010	3	0.	.0	29.5	*	1		0830	103	106.	22.1	36.0	*	1		1650	203	0.	.0	29.5
1		0015	4	0.	.0	29.5	*	1		0835	104	105.	21.4	35.8	*	1		1655	204	0.	.0	29.5
1		0020	5	0.	.0	29.5	*	1		0840	105	103.	20.7	35.7	*	1		1700	205	0.	.0	29.5
1		0025	6	1.	.0	29.6	*	1		0845	106	102.	20.0	35.6	*	1		1705	206	0.	.0	29.5
1		0030	7	2.	.0	29.6	*	1		0850	107	101.	19.3	35.5	*	1		1710	207	0.	.0	29.5
1		0035	8	3.	.0	29.7	*	1		0855	108	99.	18.6	35.3	*	1		1715	208	0.	.0	29.5
1		0040	9	4.	.0	29.8	*	1		0900	109	98.	17.9	35.2	*	1		1720	209	0.	.0	29.5
1		0045	10	5.	.0	29.8	*	1		0905	110	97.	17.3	35.1	*	1		1725	210	0.	.0	29.5
1		0050	11	6.	.0	29.9	*	1		0910	111	95.	16.6	35.0	*	1		1730	211	0.	.0	29.5
1		0055	12	6.	.0	29.9	*	1		0915	112	94.	15.9	34.9	*	1		1735	212	0.	.0	29.5
1		0100	13	6.	.0	29.9	*	1		0920	113	93.	15.3	34.7	*	1		1740	213	0.	.0	29.5
1		0105	14	5.	.0	29.8	*	1		0925	114	92.	14.7	34.6	*	1		1745	214	0.	.0	29.5
1		0110	15	5.	.0	29.8	*	1		0930	115	91.	14.0	34.5	*	1		1750	215	0.	.0	29.5
1		0115	16	4.	.0	29.8	*	1		0935	116	89.	13.4	34.4	*	1		1755	216	0.	.0	29.5
1		0120	17	5.	.0	29.8	*	1		0940	117	88.	12.8	34.3	*	1		1800	217	0.	.0	29.5
1		0125	18	6.	.0	29.9	*	1		0945	118	87.	12.2	34.2	*	1		1805	218	0.	.0	29.5
1		0130	19	8.	.0	30.0	*	1		0950	119	86.	11.6	34.1	*	1		1810	219	0.	.0	29.5
1		0135	20	9.	.1	30.0	*	1		0955	120	84.	11.0	34.0	*	1		1815	220	0.	.0	29.5
1		0140	21	10.	.1	30.1	*	1		1000	121	82.	10.4	33.8	*	1		1820	221	0.	.0	29.5
1		0145	22	12.	.2	30.3	*	1		1005	122	79.	9.9	33.7	*	1		1825	222	0.	.0	29.5
1		0150	23	14.	.3	30.4	*	1		1010	123	76.	9.4	33.6	*	1		1830	223	0.	.0	29.5
1		0155	24	17.	.4	30.6	*	1		1015	124	74.	8.8	33.4	*	1		1835	224	0.	.0	29.5
1		0200	25	19.	.6	30.7	*	1		1020	125	71.	8.3	33.3	*	1		1840	225	0.	.0	29.5
1		0205	26	21.	.6	30.8	*	1		1025	126	69.	7.9	33.2	*	1		1845	226	0.	.0	29.5
1		0210	27	22.	.7	30.9	*	1		1030	127	66.	7.4	33.1	*	1		1850	227	0.	.0	29.5
1		0215	28	23.	.7	31.0	*	1		1035	128	64.	6.9	33.0	*	1		1855	228	0.	.0	29.5
1		0220	29	24.	.8	31.0	*	1		1040	129	62.	6.5	32.9	*	1		1900	229	0.	.0	29.5
1		0225	30	25.	.9	31.1	*	1		1045	130	60.	6.1	32.8	*	1		1905	230	0.	.0	29.5
1		0230	31	26.	1.0	31.1	*	1		1050	131	58.	5.7	32.7	*	1		1910	231	0.	.0	29.5
1		0235	32	27.	1.1	31.2	*	1		1055	132	56.	5.3	32.6	*	1		1915	232	0.	.0	29.5
1		0240	33	29.	1.3	31.3	*	1		1100	133	54.	4.9	32.5	*	1		1920	233	0.	.0	29.5
1		0245	34	31.	1.5	31.3	*	1		1105	134	52.	4.5	32.4	*	1		1925	234	0.	.0	29.5
1		0250	35	32.	1.7	31.4	*	1		1110	135	51.	4.2	32.3	*	1		1930	235	0.	.0	29.5
1		0255	36	34.	1.9	31.5	*	1		1115	136	49.	3.9	32.2	*	1		1935	236	0.	.0	29.5
1		0300	37	36.	2.0	31.6	*	1		1120	137	47.	3.5	32.1	*	1		1940	237	0.	.0	29.5
1		0305	38	38.	2.2	31.7	*	1		1125	138	46.	3.2	32.1	*	1		1945	238	0.	.0	29.5
1		0310	39	40.	2.4	31.8	*	1		1130	139	44.	2.9	32.0	*	1		1950	239	0.	.0	29.5
1		0315	40	43.	2.8	31.9	*	1		1135	140	41.	2.6	31.9	*	1		1955	240	0.	.0	29.5
1		0320	41	46.	3.3	32.1	*	1		1140	141	39.	2.3	31.7	*	1		2000	241	0.	.0	29.5
1		0325	42	51.	4.3	32.3	*	1		1145	142	36.	2.1	31.6	*	1		2005	242	0.	.0	29.5
1		0330	43	59.	6.0	32.7	*	1		1150	143	34.	1.8	31.5	*	1		2010	243	0.	.0	29.5
1		0335	44	72.	8.5	33.4	*	1		1155	144	32.	1.6	31.4	*	1		2015	244	0.	.0	29.5
1		0340	45	87.	11.9	34.1	*	1		1200	145	30.	1.4	31.3	*	1		2020	245	0.	.0	29.5
1		0345	46	94.	16.1	34.9	*	1		1205	146	28.	1.2	31.2	*	1		2025	246	0.	.0	29.5
1		0350	47	103.	20.7	35.7	*	1		1210	147	26.	1.0	31.1	*	1		2030	247	0.	.0	29.5
1		0355	48	112.	25.4	36.6	*	1		1215	148	24.	.8	31.0	*	1		2035	248	0.	.0	29.5
1		0400	49	120.	29.8	37.3	*	1		1220	149	22.	.7	30.9	*	1		2040	249	0.	.0	29.5
1		0405	50	127.	33.6	38.0	*	1		1225	150	19.	.5	30.7	*	1		2045	250	0.	.0	29.5
1		0410	51	131.	36.9	38.5	*	1		1230	151	16.	.4	30.5	*	1		2050	251	0.	.0	29.5
1		0415	52	135.	39.4	39.0	*	1		1235	152	14.	.3	30.4	*	1		2055	252	0.	.0	29.5
1		0420	53	137.	41.4	39.3	*	1		1240	153	12.	.2	30.3	*	1		2100	253	0.	.0	29.5
1		0425	54	139.	43.0	39.5	*	1		1245	154	10.	.1	30.1	*	1		2105	254	0.	.0	29.5
1		0430	55	140.	44.1	39.7	*	1		1250	155	9.	.1	30.1	*	1		2110	255	0.	.0	29.5
1		0435	56	142.	45.0	39.8	*	1		1255	156	6.	.0	29.9	*	1		2115	256	0.	.0	29.5
1		0440	57	143.	45.7	40.0	*	1		1300	157	1.	.0	29.6	*	1		2120	257	0.	.0	29.5
1		0445	58	143.	46.4	40.1	*	1		1305	158	0.	.0	29.5	*	1		2125	258	0.	.0	29.5
1		0450	59	144.	47.1	40.2	*	1		1310	159	0.	.0	29.5	*	1		2130	259	0.	.0	29.5
1		0455	60	145.	47.8	40.3	*	1		1315	160	0.	.0	29.5	*	1		2135	260	0.	.0	29.5
1		0500	61	146.	48.4	40.4	*	1		1320	161	0.	.0	29.5	*	1		2140	261	0.	.0	29.5
1		0505	62	147.	49.1	40.5	*	1		1325	162	0.	.0	29.5	*	1		2145	262	0.	.0	29.5
1		0510	63	147.	49.6	40.6	*	1		1330	163	0.	.0	29.5	*	1		2150	263	0.	.0	29.5
1		0515	64	148.	50.0	40.6	*	1		1335	164	0.	.0	29.5	*	1		2155	264	0.	.0	29.5
1		0520	65	148.	50.3	40.7	*	1		1340	165	0.	.0	29.5	*	1		2200	265	0.	.0	29.5
1		0525	66	148.	50.3	40.7	*	1		1345	166	0.	.0	29.5	*	1		2205	266	0.	.0	29.5
1		0530	67	148.	50.2	40.7	*	1		1350	167	0.	.0	29.5	*	1		2210	267	0.	.0	29.5
1		0535	68	148.	49.9	40.6	*	1		1355	168	0.	.0	29.5	*	1		2215	268	0.	.0	29.5
1		0540	69	147.	49.5	40.6	*	1		1400	169	0.	.0	29.5	*	1		2220	269	0.	.0	29.5
1		0545	70	147.	48.9	40.5	*	1		1405	170	0.	.0	29.5	*	1		2225	270	0.	.0	29.5
1		0550	71	146.	48.3	40.4	*	1		1410	171	0.	.0	29.5	*	1		2230	271	0.	.0	29.5
1		0555	72	145.	47.7	40.3	*	1		1415	172	0.	.0	29.5	*	1		2235	272	0.	.0	29.5
1		0600	73	144.	47.0	40.2	*	1		1420	173	0.	.0	29.5	*	1		2240	273	0.	.0	29.5
1		0605	74	143.	46.2	40.0	*	1		1425	174	0.	.0	29.5	*	1		2245	274	0.	.0	29.5
1		0610	75	142.	45.5	39.9	*	1		1430	175	0.	.0	29.5	*	1		2250	275	0.	.0	29.5
1		0615	76	141.	44.7	39.8	*	1		1435	176	0.	.0	29.5	*	1		2255	276	0.	.0	29.5
1		0620	77	140.	43.9	39.7	*	1		1440	177	0.	.0	29.5	*	1		2300	277	0.	.0	29.5
1		0625	78	139.	43.0	39.5	*	1		1445	178	0.	.0	29.5	*	1		2305	278	0.	.0	29.5
1		0630	79	138.	42.2	39.4	*	1		1450	179	0.	.0	29.5	*	1		2310	279	0.	.0	29.5
1		0635	80	137.	41.3	39.3	*	1		1455	180	0.	.0	29.5	*	1		2315	280	0.	.0	29.5
1		0640	81	136.	40.4	39.1	*	1		1500	181	0.	.0	29.5	*	1		2320	281	0.	.0	29.5
1		0645	82	135.	39.5	39.0	*	1		1505	182	0.	.0	29.5	*	1		2325	282	0.	.0	29.5
1		0650	83	134.	38.6	38.8	*	1		1510	183	0.	.0	29.5	*	1		2330	283	0.	.0	29.5
1		0655	84	133.	37.7	38.7	*	1		1515	184	0.	.0	29.5	*	1		2335	284	0.	.0	29.5
1		0700	85	131.	36.9	38.5	*	1		1520	185	0.	.0	29.5	*	1		2340	285	0.	.0	29.5
1		0705	86	130.	36.0	38.4	*	1		1525	186	0.	.0	29.5	*	1		2345	286	0.	.0	29.5
1		0710	87	129.	35.1	38.3	*	1		1530	187	0.	.0	29.5	*	1		2350	287	0.	.0	29.5
1		0715	88	128.	34.2	38.1	*	1		1535	188	0.	.0	29.5	*	1		2355	288	0.	.0	29.5
1		0720	89	127.	33.3	38.0	*	1		1540	189	0.	.0	29.5	*	2		0000	289	0.	.0	29.5
1		0725	90	125.	32.5	37.8	*	1		1545	190	0.	.0	29.5	*	2		0005	290	0.	.0	29.5
1		0730	91	124.	31.6	37.7	*	1		1550	191	0.	.0	29.5	*	2		0010	291	0.	.0	29.5
1		0735	92	122.	30.8	37.5	*	1		1555	192	0.	.0	29.5	*	2		0015	292	0.	.0	29.5
1		0740	93	121.	29.9	37.4	*	1		1600	193	0.	.0	29.5	*	2		0020	293	0.	.0	29.5
1		0745	94	119.	29.1	37.2	*	1		1605	194	0.	.0	29.5	*	2		0025	294	0.	.0	29.5
1		0750	95	118.	28.3	37.1	*	1		1610	195	0.	.0	29.5	*	2		0030	295	0.	.0	29.5
1		0755	96	116.	27.5	36.9	*	1		1615	196	0.	.0	29.5	*	2		0035	296	0.	.0	29.5
1		0800	97	115.	26.7	36.8	*	1		1620	197	0.	.0	29.5	*	2		0040	297	0.	.0	29.5
1		0805	98	113.	25.9	36.6	*	1		1625	198	0.	.0	29.5	*	2		0045	298	0.	.0	29.5
1		0810	99	112.	25.1	36.5	*	1		1630	199	0.	.0	29.5	*	2		0050	299	0.	.0	29.5
1		0815	100	110.	24.4	36.4	*	1		1635	200	0.	.0	29.5	*	2		0055	300	0.	.0	29.5

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
148.	5.42	(CFS)	125.	41.	39.	39.
		(INCHES)	1.386	1.806	1.806	1.806
		(AC-FT)	62.	81.	81.	81.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
50.	5.42	34.	9.	9.	9.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
40.69	5.42	38.01	32.17	32.07	32.07

CUMULATIVE AREA = .84 SQ MI

HYDROGRAPH AT STATION DET1
PLAN 1, RATIO = .98

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	29.5
1		0005	2	0.	.0	29.5
1		0010	3	0.	.0	29.5
1		0015	4	0.	.0	29.5
1		0020	5	0.	.0	29.5
1		0025	6	1.	.0	29.6
1		0030	7	2.	.0	29.6
1		0035	8	3.	.0	29.7
1		0040	9	4.	.0	29.8
1		0045	10	5.	.0	29.8
1		0050	11	5.	.0	29.8
1		0055	12	5.	.0	29.8
1		0100	13	5.	.0	29.8
1		0105	14	4.	.0	29.8
1		0110	15	4.	.0	29.8
1		0115	16	4.	.0	29.8
1		0120	17	4.	.0	29.8
1		0125	18	6.	.0	29.9
1		0130	19	8.	.0	30.0
1		0135	20	8.	.1	30.0
1		0140	21	10.	.1	30.1
1		0145	22	11.	.2	30.2
1		0150	23	14.	.3	30.4
1		0155	24	16.	.4	30.5
1		0200	25	18.	.5	30.7
1		0205	26	20.	.6	30.8
1		0210	27	21.	.6	30.8
1		0215	28	22.	.7	30.9
1		0220	29	23.	.7	31.0
1		0225	30	24.	.8	31.0
1		0230	31	25.	.9	31.1
1		0235	32	26.	1.1	31.1
1		0240	33	28.	1.2	31.2
1		0245	34	30.	1.4	31.3
1		0250	35	31.	1.6	31.4
1		0255	36	33.	1.7	31.5
1		0300	37	35.	1.9	31.5
1		0305	38	36.	2.1	31.6
1		0310	39	38.	2.3	31.7
1		0315	40	41.	2.6	31.9
1		0320	41	45.	3.1	32.1
1		0325	42	50.	4.1	32.3
1		0330	43	58.	5.7	32.7
1		0335	44	70.	8.1	33.3
1		0340	45	86.	11.4	34.0
1		0345	46	93.	15.5	34.8
1		0350	47	102.	20.0	35.6
1		0355	48	110.	24.5	36.4
1		0400	49	118.	28.8	37.2
1		0405	50	125.	32.5	37.8
1		0410	51	130.	35.6	38.3
1		0415	52	133.	38.1	38.7
1		0420	53	135.	40.0	39.1
1		0425	54	137.	41.5	39.3
1		0430	55	139.	42.6	39.5
1		0435	56	140.	43.4	39.6
1		0440	57	141.	44.2	39.7
1		0445	58	141.	44.8	39.8
1		0450	59	142.	45.5	39.9
1		0455	60	143.	46.1	40.0
1		0500	61	144.	46.8	40.1
1		0505	62	145.	47.4	40.2
1		0510	63	145.	47.9	40.3
1		0515	64	146.	48.3	40.4
1		0520	65	146.	48.5	40.4
1		0525	66	146.	48.5	40.4
1		0530	67	146.	48.4	40.4
1		0535	68	145.	48.1	40.3
1		0540	69	145.	47.7	40.3
1		0545	70	144.	47.2	40.2
1		0550	71	144.	46.6	40.1
1		0555	72	143.	45.9	40.0
1		0600	73	142.	45.2	39.9
1		0605	74	141.	44.5	39.8
1		0610	75	140.	43.7	39.6
1		0615	76	139.	43.0	39.5
1		0620	77	138.	42.2	39.4
1		0625	78	137.	41.3	39.3
1		0630	79	136.	40.5	39.1
1		0635	80	135.	39.6	39.0
1		0640	81	134.	38.8	38.8
1		0645	82	133.	37.9	38.7
1		0650	83	132.	37.0	38.6
1		0655	84	131.	36.1	38.4
1		0700	85	129.	35.2	38.3
1		0705	86	128.	34.4	38.1
1		0710	87	127.	33.5	38.0
1		0715	88	126.	32.6	37.9
1		0720	89	124.	31.8	37.7
1		0725	90	123.	30.9	37.6
1		0730	91	121.	30.1	37.4
1		0735	92	119.	29.3	37.3
1		0740	93	118.	28.4	37.1
1		0745	94	116.	27.6	37.0
1		0750	95	115.	26.8	36.8
1		0755	96	113.	26.1	36.7
1		0800	97	112.	25.3	36.5
1		0805	98	110.	24.5	36.4
1		0810	99	109.	23.8	36.3
1		0815	100	108.	23.0	36.1
1		0820	101	106.	22.3	36.0
1		0825	102	105.	21.6	35.9
1		0830	103	103.	20.8	35.7
1		0835	104	102.	20.1	35.6
1		0840	105	101.	19.4	35.5
1		0845	106	99.	18.7	35.4
1		0850	107	98.	18.1	35.2
1		0855	108	97.	17.4	35.1
1		0900	109	96.	16.7	35.0
1		0905	110	94.	16.1	34.9
1		0910	111	93.	15.4	34.8
1		0915	112	92.	14.8	34.7
1		0920	113	91.	14.2	34.5
1		0925	114	90.	13.5	34.4
1		0930	115	88.	12.9	34.3
1		0935	116	87.	12.3	34.2
1		0940	117	86.	11.7	34.1
1		0945	118	85.	11.1	34.0
1		0950	119	82.	10.6	33.9
1		0955	120	79.	10.0	33.7
1		1000	121	77.	9.5	33.6
1		1005	122	74.	8.9	33.5
1		1010	123	72.	8.4	33.3
1		1015	124	69.	8.0	33.2
1		1020	125	67.	7.5	33.1
1		1025	126	65.	7.0	33.0
1		1030	127	62.	6.6	32.9
1		1035	128	60.	6.2	32.8
1		1040	129	58.	5.8	32.7
1		1045	130	56.	5.4	32.6
1		1050	131	54.	5.0	32.5
1		1055	132	53.	4.6	32.4
1		1100	133	51.	4.3	32.3
1		1105	134	49.	3.9	32.2
1		1110	135	47.	3.6	32.2
1		1115	136	46.	3.3	32.1
1		1120	137	44.	3.0	32.0
1		1125	138	42.	2.7	31.9
1		1130	139	39.	2.4	31.8
1		1135	140	37.	2.1	31.6
1		1140	141	34.	1.9	31.5
1		1145	142	32.	1.6	31.4
1		1150	143	30.	1.4	31.3
1		1155	144	28.	1.2	31.2
1		1200	145	26.	1.0	31.1
1		1205	146	25.	.9	31.1
1		1210	147	22.	.7	30.9
1		1215	148	19.	.6	30.7
1		1220	149	17.	.4	30.6
1		1225	150	14.	.3	30.4
1		1230	151	12.	.2	30.3
1		1235	152	11.	.2	30.2
1		1240	153	9.	.1	30.1
1		1245	154	7.	.0	30.0
1		1250	155	2.	.0	29.6
1		1255	156	0.	.0	29.5
1		1300	157	0.	.0	29.5
1		1305	158	0.	.0	29.5
1		1310	159	0.	.0	29.5
1		1315	160	0.	.0	29.5
1		1320	161	0.	.0	29.5
1		1325	162	0.	.0	29.5
1		1330	163	0.	.0	29.5
1		1335	164	0.	.0	29.5
1		1340	165	0.	.0	29.5
1		1345	166	0.	.0	29.5
1		1350	167	0.	.0	29.5
1		1355	168	0.	.0	29.5
1		1400	169	0.	.0	29.5
1		1405	170	0.	.0	29.5
1		1410	171	0.	.0	29.5
1		1415	172	0.	.0	29.5
1		1420	173	0.	.0	29.5
1		1425	174	0.	.0	29.5
1		1430	175	0.	.0	29.5
1		1435	176	0.	.0	29.5
1		1440	177	0.	.0	29.5
1		1445	178	0.	.0	29.5
1		1450	179	0.	.0	29.5
1		1455	180	0.	.0	29.5
1		1500	181	0.	.0	29.5
1		1505	182	0.	.0	29.5
1		1510	183	0.	.0	29.5
1		1515	184	0.	.0	29.5
1		1520	185	0.	.0	29.5
1		1525	186	0.	.0	29.5
1		1530	187	0.	.0	29.5
1		1535	188	0.	.0	29.5
1		1540	189	0.	.0	29.5
1		1545	190	0.	.0	29.5
1		1550	191	0.	.0	29.5
1		1555	192	0.	.0	29.5
1		1600	193	0.	.0	29.5
1		1605	194	0.	.0	29.5
1		1610	195	0.	.0	29.5
1		1615	196	0.	.0	29.5
1		1620	197	0.	.0	29.5
1		1625	198	0.	.0	29.5
1		1630	199	0.	.0	29.5
1		1635	200	0.	.0	29.5
1		1640	201	0.	.0	29.5
1		1645	202	0.	.0	29.5
1		1650	203	0.	.0	29.5
1		1655	204	0.	.0	29.5
1		1700	205	0.	.0	29.5
1		1705	206	0.	.0	29.5
1		1710	207	0.	.0	29.5
1		1715	208	0.	.0	29.5
1		1720	209	0.	.0	29.5
1		1725	210	0.	.0	29.5
1		1730	211	0.	.0	29.5
1		1735	212	0.	.0	29.5
1		1740	213	0.	.0	29.5
1		1745	214	0.	.0	29.5
1		1750	215	0.	.0	29.5
1		1755	216	0.	.0	29.5
1		1800	217	0.	.0	29.5
1		1805	218	0.	.0	29.5
1		1810	219	0.	.0	29.5
1		1815	220	0.	.0	29.5
1		1820	221	0.	.0	29.5
1		1825	222	0.	.0	29.5
1		1830	223	0.	.0	29.5
1		1835	224	0.	.0	29.5
1		1840	225	0.	.0	29.5
1		1845	226	0.	.0	29.5
1		1850	227	0.	.0	29.5
1		1855	228	0.	.0	29.5
1		1900	229	0.	.0	29.5
1		1905	230	0.	.0	29.5
1		1910	231	0.	.0	29.5
1		1915	232	0.	.0	29.5
1		1920	233	0.	.0	29.5
1		1925	234	0.	.0	29.5
1		1930	235	0.	.0	29.5
1		1935	236	0.	.0	29.5
1		1940	237	0.	.0	29.5
1		1945	238	0.	.0	29.5
1		1950	239	0.	.0	29.5
1		1955	240	0.	.0	29.5
1		2000	241	0.	.0	29.5
1		2005	242	0.	.0	29.5
1		2010	243	0.	.0	29.5
1		2015	244	0.	.0	29.5
1		2020	245	0.	.0	29.5
1		2025	246	0.	.0	29.5
1		2030	247	0.	.0	29.5
1		2035	248	0.	.0	29.5
1		2040	249	0.	.0	29.5
1		2045	250	0.	.0	29.5
1		2050	251	0.	.0	29.5
1		2055	252	0.	.0	29.5
1		2100	253	0.	.0	29.5
1		2105	254	0.	.0	29.5
1		2110	255	0.	.0	29.5
1		2115	256	0.	.0	29.5
1		2120	257	0.	.0	29.5
1		2125	258	0.	.0	29.5
1		2130	259	0.	.0	29.5
1		2135	260	0.	.0	29.5
1		2140	261	0.	.0	29.5
1		2145	262	0.	.0	29.5
1		2150	263	0.	.0	29.5
1		2155	264	0.	.0	29.5
1		2200	265	0.	.0	29.5
1		2205	266	0.	.0	29.5
1		2210	267	0.	.0	29.5
1		2215	268	0.	.0	29.5
1		2220	269	0.	.0	29.5
1		2225	270	0.	.0	29.5
1		2230	271	0.	.0	29.5
1		2235	272	0.	.0	29.5
1		2240	273	0.	.0	29.5
1		2245	274	0.	.0	29.5
1		2250	275	0.	.0	29.5
1		2255	276	0.	.0	29.5
1		2300	277	0.	.0	29.5
1		2305	278	0.	.0	29.5
1		2310	279	0.	.0	29.5
1		2315	280	0.	.0	29.5
1		2320	281	0.	.0	29.5
1		2325	282	0.	.0	29.5
1		2330	283	0.	.0	29.5
1		2335	284	0.	.0	29.5
1		2340	285	0.	.0	29.5
1		2345	286	0.	.0	29.5
1		2350	287	0.	.0	29.5
1		2355	288	0.	.0	29.5
2		0000	289	0.	.0	29.5
2		0005	290	0.	.0	29.5
2		0010	291	0.	.0	29.5
2		0015	292	0.	.0	29.5
2		0020	293	0.	.0	29.5
2		0025	294	0.	.0	29.5
2		0030	295	0.	.0	29.5
2		0035	296	0.	.0	29.5
2		0040	297	0.	.0	29.5
2		0045	298	0.	.0	29.5
2		0050	299	0.	.0	29.5
2		0055	300	0.	.0	29.5

PEAK FLOW TIME MAXIMUM AVERAGE FLOW

			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 146.	5.42		123.	39.	38.	38.
		(INCHES)	1.361	1.753	1.753	1.753
		(AC-FT)	61.	78.	78.	78.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
49.	5.42	33.	9.	9.	9.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
40.40	5.42	37.77	32.07	31.97	31.97

CUMULATIVE AREA = .84 SQ MI

HYDROGRAPH AT STATION DET1
PLAN 1, RATIO = .97

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	29.5	1		0820	101	105.	21.6	35.9	1		1640	201	0.	.0	29.5
1		0005	2	0.	.0	29.5	1		0825	102	104.	20.9	35.8	1		1645	202	0.	.0	29.5
1		0010	3	0.	.0	29.5	1		0830	103	102.	20.2	35.6	1		1650	203	0.	.0	29.5
1		0015	4	0.	.0	29.5	1		0835	104	101.	19.5	35.5	1		1655	204	0.	.0	29.5
1		0020	5	0.	.0	29.5	1		0840	105	100.	18.8	35.4	1		1700	205	0.	.0	29.5
1		0025	6	1.	.0	29.6	1		0845	106	98.	18.1	35.3	1		1705	206	0.	.0	29.5
1		0030	7	2.	.0	29.6	1		0850	107	97.	17.5	35.1	1		1710	207	0.	.0	29.5
1		0035	8	3.	.0	29.7	1		0855	108	96.	16.8	35.0	1		1715	208	0.	.0	29.5
1		0040	9	4.	.0	29.7	1		0900	109	95.	16.1	34.9	1		1720	209	0.	.0	29.5
1		0045	10	5.	.0	29.8	1		0905	110	93.	15.5	34.8	1		1725	210	0.	.0	29.5
1		0050	11	5.	.0	29.8	1		0910	111	92.	14.8	34.7	1		1730	211	0.	.0	29.5
1		0055	12	5.	.0	29.8	1		0915	112	91.	14.2	34.5	1		1735	212	0.	.0	29.5
1		0100	13	5.	.0	29.8	1		0920	113	90.	13.6	34.4	1		1740	213	0.	.0	29.5
1		0105	14	4.	.0	29.8	1		0925	114	89.	13.0	34.3	1		1745	214	0.	.0	29.5
1		0110	15	4.	.0	29.7	1		0930	115	87.	12.4	34.2	1		1750	215	0.	.0	29.5
1		0115	16	4.	.0	29.7	1		0935	116	86.	11.8	34.1	1		1755	216	0.	.0	29.5
1		0120	17	4.	.0	29.8	1		0940	117	85.	11.2	34.0	1		1800	217	0.	.0	29.5
1		0125	18	5.	.0	29.8	1		0945	118	82.	10.6	33.9	1		1805	218	0.	.0	29.5
1		0130	19	7.	.0	30.0	1		0950	119	80.	10.0	33.7	1		1810	219	0.	.0	29.5
1		0135	20	8.	.1	30.0	1		0955	120	77.	9.5	33.6	1		1815	220	0.	.0	29.5
1		0140	21	9.	.1	30.1	1		1000	121	74.	9.0	33.5	1		1820	221	0.	.0	29.5
1		0145	22	11.	.2	30.2	1		1005	122	72.	8.5	33.4	1		1825	222	0.	.0	29.5
1		0150	23	13.	.3	30.3	1		1010	123	69.	8.0	33.2	1		1830	223	0.	.0	29.5
1		0155	24	16.	.4	30.5	1		1015	124	67.	7.5	33.1	1		1835	224	0.	.0	29.5
1		0200	25	18.	.5	30.6	1		1020	125	65.	7.1	33.0	1		1840	225	0.	.0	29.5
1		0205	26	19.	.6	30.7	1		1025	126	63.	6.6	32.9	1		1845	226	0.	.0	29.5
1		0210	27	21.	.6	30.8	1		1030	127	61.	6.2	32.8	1		1850	227	0.	.0	29.5
1		0215	28	21.	.7	30.9	1		1035	128	59.	5.8	32.7	1		1855	228	0.	.0	29.5
1		0220	29	22.	.7	30.9	1		1040	129	57.	5.4	32.6	1		1900	229	0.	.0	29.5
1		0225	30	24.	.8	31.0	1		1045	130	55.	5.0	32.5	1		1905	230	0.	.0	29.5
1		0230	31	25.	.9	31.1	1		1050	131	53.	4.7	32.4	1		1910	231	0.	.0	29.5
1		0235	32	26.	1.0	31.1	1		1055	132	51.	4.3	32.3	1		1915	232	0.	.0	29.5
1		0240	33	27.	1.2	31.2	1		1100	133	49.	3.9	32.3	1		1920	233	0.	.0	29.5
1		0245	34	29.	1.3	31.3	1		1105	134	48.	3.6	32.2	1		1925	234	0.	.0	29.5
1		0250	35	31.	1.5	31.3	1		1110	135	46.	3.3	32.1	1		1930	235	0.	.0	29.5
1		0255	36	32.	1.7	31.4	1		1115	136	44.	3.0	32.0	1		1935	236	0.	.0	29.5
1		0300	37	34.	1.8	31.5	1		1120	137	42.	2.7	31.9	1		1940	237	0.	.0	29.5
1		0305	38	36.	2.0	31.6	1		1125	138	39.	2.4	31.8	1		1945	238	0.	.0	29.5
1		0310	39	37.	2.2	31.7	1		1130	139	37.	2.1	31.6	1		1950	239	0.	.0	29.5
1		0315	40	40.	2.5	31.8	1		1135	140	34.	1.9	31.5	1		1955	240	0.	.0	29.5
1		0320	41	45.	3.0	32.0	1		1140	141	32.	1.7	31.4	1		2000	241	0.	.0	29.5
1		0325	42	49.	4.0	32.3	1		1145	142	30.	1.5	31.3	1		2005	242	0.	.0	29.5
1		0330	43	57.	5.5	32.6	1		1150	143	28.	1.2	31.2	1		2010	243	0.	.0	29.5
1		0335	44	69.	7.9	33.2	1		1155	144	27.	1.1	31.1	1		2015	244	0.	.0	29.5
1		0340	45	85.	11.2	34.0	1		1200	145	25.	.9	31.1	1		2020	245	0.	.0	29.5
1		0345	46	93.	15.2	34.7	1		1205	146	23.	.7	30.9	1		2025	246	0.	.0	29.5
1		0350	47	101.	19.6	35.5	1		1210	147	20.	.6	30.7	1		2030	247	0.	.0	29.5
1		0355	48	110.	24.0	36.3	1		1215	148	17.	.4	30.6	1		2035	248	0.	.0	29.5
1		0400	49	117.	28.2	37.1	1		1220	149	14.	.3	30.4	1		2040	249	0.	.0	29.5
1		0405	50	124.	31.9	37.7	1		1225	150	12.	.2	30.3	1		2045	250	0.	.0	29.5
1		0410	51	129.	35.0	38.2	1		1230	151	11.	.2	30.2	1		2050	251	0.	.0	29.5
1		0415	52	132.	37.4	38.6	1		1235	152	9.	.1	30.1	1		2055	252	0.	.0	29.5
1		0420	53	135.	39.3	38.9	1		1240	153	8.	.0	30.0	1		2100	253	0.	.0	29.5
1		0425	54	136.	40.8	39.2	1		1245	154	2.	.0	29.6	1		2105	254	0.	.0	29.5
1		0430	55	138.	41.8	39.3	1		1250	155	0.	.0	29.5	1		2110	255	0.	.0	29.5
1		0435	56	139.	42.7	39.5	1		1255	156	0.	.0	29.5	1		2115	256	0.	.0	29.5
1		0440	57	140.	43.4	39.6	1		1300	157	0.	.0	29.5	1		2120	257	0.	.0	29.5
1		0445	58	140.	44.0	39.7	1		1305	158	0.	.0	29.5	1		2125	258	0.	.0	29.5
1		0450	59	141.	44.7	39.8	1		1310	159	0.	.0	29.5	1		2130	259	0.	.0	29.5
1		0455	60	142.	45.3	39.9	1		1315	160	0.	.0	29.5	1		2135	260	0.	.0	29.5
1		0500	61	143.	45.9	40.0	1		1320	161	0.	.0	29.5	1		2140	261	0.	.0	29.5
1		0505	62	144.	46.5	40.1	1		1325	162	0.	.0	29.5	1		2145	262	0.	.0	29.5
1		0510	63	144.	47.0	40.2	1		1330	163	0.	.0	29.5	1		2150	263	0.	.0	29.5
1		0515	64	145.	47.4	40.2	1		1335	164	0.	.0	29.5	1		2155	264	0.	.0	29.5
1		0520	65	145.	47.6	40.3	1		1340	165	0.	.0	29.5	1		2200	265	0.	.0	29.5
1		0525	66	145.	47.6	40.3	1		1345	166	0.	.0	29.5	1		2205	266	0.	.0	29.5
1		0530	67	145.	47.5	40.2	1		1350	167	0.	.0	29.5	1		2210	267	0.	.0	29.5
1		0535	68	144.	47.2	40.2	1		1355	168	0.	.0	29.5	1		2215	268	0.	.0	29.5
1		0540	69	144.	46.8	40.1	1		1400	169	0.	.0	29.5	1		2220	269	0.	.0	29.5
1		0545	70	143.	46.3	40.0	1		1405	170	0.	.0	29.5	1		2225	270	0.	.0	29.5
1		0550	71	142.	45.7	40.0	1		1410	171	0.	.0	29.5	1		2230	271	0.	.0	29.5
1		0555	72	142.	45.0	39.8	1		1415	172	0.	.0	29.5	1		2235	272	0.	.0	29.5
1		0600	73	141.	44.3	39.7	1		1420	173	0.	.0	29.5	1		2240	273	0.	.0	29.5
1		0605	74	140.	43.6	39.6	1		1425	174	0.	.0	29.5	1		2245	274	0.	.0	29.5
1		0610	75	139.	42.9	39.5	1		1430	175	0.	.0	29.5	1		2250	275	0.	.0	29.5
1		0615	76	138.	42.1	39.4	1		1435	176	0.	.0	29.5	1		2255	276	0.	.0	29.5
1		0620	77	137.	41.3	39.3	1		1440	177	0.	.0	29.5	1		2300	277	0.	.0	29.5
1		0625	78	136.	40.5	39.1	1		1445	178	0.	.0	29.5	1		2305	278	0.	.0	29.5
1		0630	79	135.	39.6	39.0	1		1450	179	0.	.0	29.5	1		2310	279	0.	.0	29.5
1		0635	80	134.	38.8	38.9	1		1455	180	0.	.0	29.5	1		2315	280	0.	.0	29.5
1		0640	81	133.	37.9	38.7	1		1500	181	0.	.0	29.5	1		2320	281	0.	.0	29.5
1		0645	82	132.	37.1	38.6	1		1505	182	0.	.0	29.5	1		2325	282	0.	.0	29.5
1		0650	83	131.	36.2	38.4	1		1510	183	0.	.0	29.5	1		2330	283	0.	.0	29.5
1		0655	84	130.	35.3	38.3	1		1515	184	0.	.0	29.5	1		2335	284	0.	.0	29.5
1		0700	85	128.	34.4	38.2	1		1520	185	0.	.0	29.5	1		2340	285	0.	.0	29.5
1		0705	86	127.	33.6	38.0	1		1525	186	0.	.0	29.5	1		2345	286	0.	.0	29.5
1		0710	87	126.	32.7	37.9	1		1530	187	0.	.0	29.5	1		2350	287	0.	.0	29.5
1		0715	88	124.	31.8	37.7	1		1535	188	0.	.0	29.5	1		2355	288	0.	.0	29.5
1		0720	89	123.	31.0	37.6	1		1540	189	0.	.0	29.5	2		0000	289	0.	.0	29.5
1		0725	90	121.	30.2	37.4	1		1545	190	0.	.0	29.5	2		0005	290	0.	.0	29.5
1		0730	91	120.	29.3	37.3	1		1550	191	0.	.0	29.5	2		0010	291	0.	.0	29.5
1		0735	92	118.	28.5	37.1	1		1555	192	0.	.0	29.5	2		0015	292	0.	.0	29.5
1		0740	93	116.	27.7	37.0	1		1600	193	0.	.0	29.5	2		0020	293	0.	.0	29.5
1		0745	94	115.	26.9	36.8	1		1605	194	0.	.0	29.5	2		0025	294	0.	.0	29.5
1		0750	95	113.	26.1	36.7	1		1610	195	0.	.0	29.5	2		0030	295	0.	.0	29.5
1		0755	96	112.	25.4	36.6	1		1615	196	0.	.0	29.5	2		0035	296	0.	.0	29.5
1		0800	97	111.	24.6	36.4	1		1620	197	0.	.0	29.5	2		0040	297	0.	.0	29.5
1		0805	98	109.	23.8	36.3	1		1625	198	0.	.0	29.5	2		0045	298	0.	.0	29.5
1		0810	99	108.	23.1	36.1	1		1630	199	0.	.0	29.5	2		0050	299	0.	.0	29.5
1		0815	100	106.	22.4	36.0	1		1635	200	0.	.0	29.5	2		0055	300	0.	.0	29.5

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 145.	5.42	122.	39.	37.	37.

(INCHES)	1.349	1.726	1.726	1.726
(AC-FT)	60.	77.	77.	77.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
48.	5.42	32.	9.	8.	8.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
40.26	5.42	37.65	32.02	31.93	31.93

CUMULATIVE AREA = .84 SQ MI

HYDROGRAPH AT STATION DET1
PLAN 1, RATIO = .93

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000		1	0.	.0	29.5
1	0005		2	0.	.0	29.5
1	0010		3	0.	.0	29.5
1	0015		4	0.	.0	29.5
1	0020		5	0.	.0	29.5
1	0025		6	1.	.0	29.5
1	0030		7	1.	.0	29.6
1	0035		8	2.	.0	29.7
1	0040		9	3.	.0	29.7
1	0045		10	4.	.0	29.7
1	0050		11	4.	.0	29.7
1	0055		12	4.	.0	29.7
1	0100		13	3.	.0	29.7
1	0105		14	3.	.0	29.7
1	0110		15	3.	.0	29.7
1	0115		16	3.	.0	29.7
1	0120		17	3.	.0	29.7
1	0125		18	4.	.0	29.8
1	0130		19	6.	.0	29.9
1	0135		20	8.	.1	30.0
1	0140		21	9.	.1	30.1
1	0145		22	10.	.2	30.2
1	0150		23	12.	.2	30.3
1	0155		24	14.	.3	30.4
1	0200		25	16.	.4	30.5
1	0205		26	17.	.5	30.6
1	0210		27	18.	.5	30.7
1	0215		28	19.	.6	30.7
1	0220		29	20.	.6	30.8
1	0225		30	21.	.7	30.9
1	0230		31	23.	.7	31.0
1	0235		32	25.	.9	31.0
1	0240		33	26.	1.0	31.1
1	0245		34	27.	1.1	31.2
1	0250		35	29.	1.3	31.2
1	0255		36	30.	1.4	31.3
1	0300		37	32.	1.6	31.4
1	0305		38	33.	1.7	31.5
1	0310		39	35.	1.9	31.5
1	0315		40	37.	2.2	31.7
1	0320		41	42.	2.7	31.9
1	0325		42	47.	3.5	32.2
1	0330		43	55.	5.0	32.5
1	0335		44	66.	7.2	33.0
1	0340		45	81.	10.3	33.8
1	0345		46	91.	14.0	34.5
1	0350		47	98.	18.1	35.3
1	0355		48	106.	22.3	36.0
1	0400		49	114.	26.2	36.7
1	0405		50	120.	29.7	37.3
1	0410		51	126.	32.5	37.8
1	0415		52	129.	34.8	38.2
1	0420		53	131.	36.6	38.5
1	0425		54	133.	37.9	38.7
1	0430		55	134.	38.9	38.9
1	0435		56	135.	39.7	39.0
1	0440		57	136.	40.3	39.1
1	0445		58	136.	40.9	39.2
1	0450		59	137.	41.5	39.3
1	0455		60	138.	42.0	39.4
1	0500		61	139.	42.6	39.5
1	0505		62	139.	43.2	39.5
1	0510		63	140.	43.6	39.6
1	0515		64	140.	44.0	39.7
1	0520		65	141.	44.1	39.7
1	0525		66	141.	44.1	39.7
1	0530		67	140.	44.0	39.7
1	0535		68	140.	43.7	39.6
1	0540		69	139.	43.3	39.6
1	0545		70	139.	42.8	39.5
1	0550		71	138.	42.2	39.4
1	0555		72	137.	41.5	39.3
1	0600		73	136.	40.9	39.2
1	0605		74	136.	40.2	39.1
1	0610		75	135.	39.4	39.0
1	0615		76	134.	38.7	38.8
1	0620		77	133.	37.9	38.7
1	0625		78	132.	37.1	38.6
1	0630		79	131.	36.3	38.5
1	0635		80	130.	35.5	38.3
1	0640		81	129.	34.6	38.2
1	0645		82	128.	33.8	38.1
1	0650		83	126.	32.9	37.9
1	0655		84	125.	32.1	37.8
1	0700		85	123.	31.2	37.6
1	0705		86	122.	30.4	37.5
1	0710		87	120.	29.6	37.3
1	0715		88	118.	28.8	37.2
1	0720		89	117.	28.0	37.0
1	0725		90	115.	27.2	36.9
1	0730		91	114.	26.4	36.7
1	0735		92	112.	25.6	36.6
1	0740		93	111.	24.8	36.5
1	0745		94	110.	24.1	36.3
1	0750		95	108.	23.3	36.2
1	0755		96	107.	22.6	36.1
1	0800		97	105.	21.9	35.9
1	0805		98	104.	21.1	35.8
1	0810		99	103.	20.4	35.7
1	0815		100	101.	19.7	35.5
1	0820		101	100.	19.0	35.4
1	0825		102	99.	18.3	35.3
1	0830		103	97.	17.7	35.2
1	0835		104	96.	17.0	35.0
1	0840		105	95.	16.3	34.9
1	0845		106	94.	15.7	34.8
1	0850		107	93.	15.1	34.7
1	0855		108	91.	14.4	34.6
1	0900		109	90.	13.8	34.5
1	0905		110	89.	13.2	34.4
1	0910		111	88.	12.6	34.3
1	0915		112	87.	12.0	34.1
1	0920		113	86.	11.4	34.0
1	0925		114	83.	10.8	33.9
1	0930		115	81.	10.2	33.8
1	0935		116	78.	9.7	33.6
1	0940		117	75.	9.2	33.5
1	0945		118	73.	8.7	33.4
1	0950		119	70.	8.2	33.3
1	0955		120	68.	7.7	33.2
1	1000		121	66.	7.2	33.0
1	1005		122	63.	6.8	32.9
1	1010		123	61.	6.4	32.8
1	1015		124	59.	5.9	32.7
1	1020		125	57.	5.5	32.6
1	1025		126	55.	5.1	32.5
1	1030		127	53.	4.8	32.5
1	1035		128	52.	4.4	32.4
1	1040		129	50.	4.1	32.3
1	1045		130	48.	3.7	32.2
1	1050		131	47.	3.4	32.1
1	1055		132	45.	3.1	32.0
1	1100		133	43.	2.8	31.9
1	1105		134	40.	2.5	31.8
1	1110		135	38.	2.2	31.7
1	1115		136	35.	2.0	31.6
1	1120		137	33.	1.7	31.5
1	1125		138	31.	1.5	31.4
1	1130		139	29.	1.3	31.3
1	1135		140	27.	1.1	31.2
1	1140		141	25.	.9	31.1
1	1145		142	24.	.8	31.0
1	1150		143	21.	.6	30.8
1	1155		144	18.	.5	30.6
1	1200		145	15.	.4	30.5
1	1205		146	13.	.3	30.3
1	1210		147	11.	.2	30.2
1	1215		148	10.	.1	30.1
1	1220		149	8.	.1	30.0
1	1225		150	4.	.0	29.7
1	1230		151	1.	.0	29.6
1	1235		152	0.	.0	29.5
1	1240		153	0.	.0	29.5
1	1245		154	0.	.0	29.5
1	1250		155	0.	.0	29.5
1	1255		156	0.	.0	29.5
1	1300		157	0.	.0	29.5
1	1305		158	0.	.0	29.5
1	1310		159	0.	.0	29.5
1	1315		160	0.	.0	29.5
1	1320		161	0.	.0	29.5
1	1325		162	0.	.0	29.5
1	1330		163	0.	.0	29.5
1	1335		164	0.	.0	29.5
1	1340		165	0.	.0	29.5
1	1345		166	0.	.0	29.5
1	1350		167	0.	.0	29.5
1	1355		168	0.	.0	29.5
1	1400		169	0.	.0	29.5
1	1405		170	0.	.0	29.5
1	1410		171	0.	.0	29.5
1	1415		172	0.	.0	29.5
1	1420		173	0.	.0	29.5
1	1425		174	0.	.0	29.5
1	1430		175	0.	.0	29.5
1	1435		176	0.	.0	29.5
1	1440		177	0.	.0	29.5
1	1445		178	0.	.0	29.5
1	1450		179	0.	.0	29.5
1	1455		180	0.	.0	29.5
1	1500		181	0.	.0	29.5
1	1505		182	0.	.0	29.5
1	1510		183	0.	.0	29.5
1	1515		184	0.	.0	29.5
1	1520		185	0.	.0	29.5
1	1525		186	0.	.0	29.5
1	1530		187	0.	.0	29.5
1	1535		188	0.	.0	29.5
1	1540		189	0.	.0	29.5
1	1545		190	0.	.0	29.5
1	1550		191	0.	.0	29.5
1	1555		192	0.	.0	29.5
1	1600		193	0.	.0	29.5
1	1605		194	0.	.0	29.5
1	1610		195	0.	.0	29.5
1	1615		196	0.	.0	29.5
1	1620		197	0.	.0	29.5
1	1625		198	0.	.0	29.5
1	1630		199	0.	.0	29.5
1	1635		200	0.	.0	29.5
1	1640		201	0.	.0	29.5
1	1645		202	0.	.0	29.5
1	1650		203	0.	.0	29.5
1	1655		204	0.	.0	29.5
1	1700		205	0.	.0	29.5
1	1705		206	0.	.0	29.5
1	1710		207	0.	.0	29.5
1	1715		208	0.	.0	29.5
1	1720		209	0.	.0	29.5
1	1725		210	0.	.0	29.5
1	1730		211	0.	.0	29.5
1	1735		212	0.	.0	29.5
1	1740		213	0.	.0	29.5
1	1745		214	0.	.0	29.5
1	1750		215	0.	.0	29.5
1	1755		216	0.	.0	29.5
1	1800		217	0.	.0	29.5
1	1805		218	0.	.0	29.5
1	1810		219	0.	.0	29.5
1	1815		220	0.	.0	29.5
1	1820		221	0.	.0	29.5
1	1825		222	0.	.0	29.5
1	1830		223	0.	.0	29.5
1	1835		224	0.	.0	29.5
1	1840		225	0.	.0	29.5
1	1845		226	0.	.0	29.5
1	1850		227	0.	.0	29.5
1	1855		228	0.	.0	29.5
1	1900		229	0.	.0	29.5
1	1905		230	0.	.0	29.5
1	1910		231	0.	.0	29.5
1	1915		232	0.	.0	29.5
1	1920		233	0.	.0	29.5
1	1925		234	0.	.0	29.5
1	1930		235	0.	.0	29.5
1	1935		236	0.	.0	29.5
1	1940		237	0.	.0	29.5
1	1945		238	0.	.0	29.5
1	1950		239	0.	.0	29.5
1	1955		240	0.	.0	29.5
2	0000		241	0.	.0	29.5
2	0005		242	0.	.0	29.5
2	0010		243	0.	.0	29.5
2	0015		244	0.	.0	29.5
2	0020		245	0.	.0	29.5
2	0025		246	0.	.0	29.5
2	0030		247	0.	.0	29.5
2	0035		248	0.	.0	29.5
2	0040		249	0.	.0	29.5
2	0045		250	0.	.0	29.5
2	0050		251	0.	.0	29.5
2	0055		252	0.	.0	29.5
2	0100		253	0.	.0	29.5
2	0105		254	0.	.0	29.5
2	0110		255	0.	.0	29.5
2	0115		256	0.	.0	29.5
2	0120		257	0.	.0	29.5
2	0125		258	0.	.0	29.5
2	0130		259	0.	.0	29.5
2	0135		260	0.	.0	29.5
2	0140		261	0.	.0	29.5
2	0145		262	0.	.0	29.5
2	0150		263	0.	.0	29.5
2	0155		264	0.	.0	29.5
2	0200		265	0.	.0	29.5
2	0205		266	0.	.0	29.5
2	0210		267	0.	.0	29.5
2	0215		268	0.	.0	29.5
2	0220		269	0.	.0	29.5
2	0225		270	0.	.0	29.5
2	0230		271	0.	.0	29.5
2	0235		272	0.	.0	29.5
2	0240		273	0.	.0	29.5
2	0245		274	0.	.0	29.5
2	0250		275	0.	.0	29.5
2	0255		276	0.	.0	29.5
2	0300		277	0.	.0	29.5
2	0305		278	0.	.0	29.5
2	0310		279	0.	.0	29.5
2	0315		280	0.	.0	29.5
2	0320		281	0.	.0	29.5
2	0325		282	0.	.0	29.5
2	0330		283	0.	.0	29.5
2	0335		284	0.	.0	29.5
2	0340		285	0.	.0	29.5
2	0345		286	0.	.0	29.5
2	0350		287	0.	.0	29.5
2	0355		288	0.	.0	29.5
2	0000		289	0.	.0	29.5
2	0005		290	0.	.0	29.5
2	0010		291	0.	.0	29.5
2	0015		292	0.	.0	29.5
2	0020		293	0.	.0	29.5
2	0025		294	0.	.0	29.5
2	0030		295	0.	.0	29.5
2	0035		296	0.	.0	29.5
2	0040		297	0.	.0	29.5
2	0045		298	0.	.0	29.5
2	0050		299	0.	.0	29.5
2	0055		300	0.	.0	29.5

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
141.	5.42	117.	36.	35.	35.
		(CFS)			
		(INCHES) 1.298	1.620	1.620	1.620
		(AC-FT) 58.	72.	72.	72.

PEAK STORAGE TIME MAXIMUM AVERAGE STORAGE

+ (AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
44.	5.42	29.	8.	8.	8.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
39.71	5.42	37.16	31.83	31.75	31.75

CUMULATIVE AREA = .84 SQ MI

HYDROGRAPH AT STATION DET1
PLAN 1, RATIO = .91

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	29.5	1		0820	101	98.	17.8	35.2	1		1640	201	0.	.0	29.5
1		0005	2	0.	.0	29.5	1		0825	102	96.	17.1	35.1	1		1645	202	0.	.0	29.5
1		0010	3	0.	.0	29.5	1		0830	103	95.	16.4	34.9	1		1650	203	0.	.0	29.5
1		0015	4	0.	.0	29.5	1		0835	104	94.	15.8	34.8	1		1655	204	0.	.0	29.5
1		0020	5	0.	.0	29.5	1		0840	105	93.	15.1	34.7	1		1700	205	0.	.0	29.5
1		0025	6	1.	.0	29.5	1		0845	106	91.	14.5	34.6	1		1705	206	0.	.0	29.5
1		0030	7	1.	.0	29.6	1		0850	107	90.	13.9	34.5	1		1710	207	0.	.0	29.5
1		0035	8	2.	.0	29.6	1		0855	108	89.	13.3	34.4	1		1715	208	0.	.0	29.5
1		0040	9	3.	.0	29.7	1		0900	109	88.	12.7	34.3	1		1720	209	0.	.0	29.5
1		0045	10	3.	.0	29.7	1		0905	110	87.	12.1	34.2	1		1725	210	0.	.0	29.5
1		0050	11	3.	.0	29.7	1		0910	111	86.	11.5	34.1	1		1730	211	0.	.0	29.5
1		0055	12	3.	.0	29.7	1		0915	112	84.	10.9	33.9	1		1735	212	0.	.0	29.5
1		0100	13	3.	.0	29.7	1		0920	113	81.	10.3	33.8	1		1740	213	0.	.0	29.5
1		0105	14	2.	.0	29.7	1		0925	114	78.	9.8	33.7	1		1745	214	0.	.0	29.5
1		0110	15	2.	.0	29.6	1		0930	115	76.	9.2	33.5	1		1750	215	0.	.0	29.5
1		0115	16	2.	.0	29.7	1		0935	116	73.	8.7	33.4	1		1755	216	0.	.0	29.5
1		0120	17	3.	.0	29.7	1		0940	117	71.	8.2	33.3	1		1800	217	0.	.0	29.5
1		0125	18	4.	.0	29.7	1		0945	118	68.	7.7	33.2	1		1805	218	0.	.0	29.5
1		0130	19	6.	.0	29.9	1		0950	119	66.	7.3	33.1	1		1810	219	0.	.0	29.5
1		0135	20	8.	.0	30.0	1		0955	120	64.	6.8	33.0	1		1815	220	0.	.0	29.5
1		0140	21	9.	.1	30.0	1		1000	121	62.	6.4	32.8	1		1820	221	0.	.0	29.5
1		0145	22	10.	.1	30.1	1		1005	122	59.	6.0	32.7	1		1825	222	0.	.0	29.5
1		0150	23	11.	.2	30.2	1		1010	123	57.	5.6	32.6	1		1830	223	0.	.0	29.5
1		0155	24	13.	.3	30.3	1		1015	124	56.	5.2	32.6	1		1835	224	0.	.0	29.5
1		0200	25	15.	.4	30.4	1		1020	125	54.	4.8	32.5	1		1840	225	0.	.0	29.5
1		0205	26	16.	.4	30.5	1		1025	126	52.	4.5	32.4	1		1845	226	0.	.0	29.5
1		0210	27	17.	.5	30.6	1		1030	127	50.	4.1	32.3	1		1850	227	0.	.0	29.5
1		0215	28	18.	.5	30.6	1		1035	128	48.	3.8	32.2	1		1855	228	0.	.0	29.5
1		0220	29	19.	.5	30.7	1		1040	129	47.	3.4	32.1	1		1900	229	0.	.0	29.5
1		0225	30	20.	.6	30.8	1		1045	130	45.	3.1	32.1	1		1905	230	0.	.0	29.5
1		0230	31	22.	.7	30.9	1		1050	131	43.	2.8	32.0	1		1910	231	0.	.0	29.5
1		0235	32	24.	.8	31.0	1		1055	132	41.	2.5	31.8	1		1915	232	0.	.0	29.5
1		0240	33	25.	.9	31.1	1		1100	133	38.	2.3	31.7	1		1920	233	0.	.0	29.5
1		0245	34	26.	1.0	31.1	1		1105	134	36.	2.0	31.6	1		1925	234	0.	.0	29.5
1		0250	35	28.	1.2	31.2	1		1110	135	33.	1.8	31.5	1		1930	235	0.	.0	29.5
1		0255	36	29.	1.3	31.3	1		1115	136	31.	1.6	31.4	1		1935	236	0.	.0	29.5
1		0300	37	30.	1.5	31.3	1		1120	137	29.	1.3	31.3	1		1940	237	0.	.0	29.5
1		0305	38	32.	1.6	31.4	1		1125	138	27.	1.1	31.2	1		1945	238	0.	.0	29.5
1		0310	39	33.	1.8	31.5	1		1130	139	26.	1.0	31.1	1		1950	239	0.	.0	29.5
1		0315	40	36.	2.0	31.6	1		1135	140	24.	.8	31.0	1		1955	240	0.	.0	29.5
1		0320	41	40.	2.5	31.8	1		1140	141	21.	.6	30.8	1		2000	241	0.	.0	29.5
1		0325	42	46.	3.3	32.1	1		1145	142	18.	.5	30.6	1		2005	242	0.	.0	29.5
1		0330	43	53.	4.7	32.4	1		1150	143	16.	.4	30.5	1		2010	243	0.	.0	29.5
1		0335	44	64.	6.9	33.0	1		1155	144	13.	.3	30.3	1		2015	244	0.	.0	29.5
1		0340	45	79.	9.8	33.7	1		1200	145	11.	.2	30.2	1		2020	245	0.	.0	29.5
1		0345	46	89.	13.4	34.4	1		1205	146	10.	.1	30.1	1		2025	246	0.	.0	29.5
1		0350	47	97.	17.4	35.1	1		1210	147	8.	.1	30.0	1		2030	247	0.	.0	29.5
1		0355	48	105.	21.4	35.8	1		1215	148	4.	.0	29.8	1		2035	248	0.	.0	29.5
1		0400	49	112.	25.2	36.5	1		1220	149	1.	.0	29.6	1		2040	249	0.	.0	29.5
1		0405	50	118.	28.6	37.1	1		1225	150	0.	.0	29.5	1		2045	250	0.	.0	29.5
1		0410	51	123.	31.3	37.6	1		1230	151	0.	.0	29.5	1		2050	251	0.	.0	29.5
1		0415	52	127.	33.5	38.0	1		1235	152	0.	.0	29.5	1		2055	252	0.	.0	29.5
1		0420	53	129.	35.2	38.3	1		1240	153	0.	.0	29.5	1		2100	253	0.	.0	29.5
1		0425	54	131.	36.5	38.5	1		1245	154	0.	.0	29.5	1		2105	254	0.	.0	29.5
1		0430	55	132.	37.4	38.6	1		1250	155	0.	.0	29.5	1		2110	255	0.	.0	29.5
1		0435	56	133.	38.2	38.8	1		1255	156	0.	.0	29.5	1		2115	256	0.	.0	29.5
1		0440	57	134.	38.8	38.9	1		1300	157	0.	.0	29.5	1		2120	257	0.	.0	29.5
1		0445	58	135.	39.3	38.9	1		1305	158	0.	.0	29.5	1		2125	258	0.	.0	29.5
1		0450	59	135.	39.9	39.0	1		1310	159	0.	.0	29.5	1		2130	259	0.	.0	29.5
1		0455	60	136.	40.4	39.1	1		1315	160	0.	.0	29.5	1		2135	260	0.	.0	29.5
1		0500	61	137.	41.0	39.2	1		1320	161	0.	.0	29.5	1		2140	261	0.	.0	29.5
1		0505	62	137.	41.5	39.3	1		1325	162	0.	.0	29.5	1		2145	262	0.	.0	29.5
1		0510	63	138.	41.9	39.4	1		1330	163	0.	.0	29.5	1		2150	263	0.	.0	29.5
1		0515	64	138.	42.2	39.4	1		1335	164	0.	.0	29.5	1		2155	264	0.	.0	29.5
1		0520	65	138.	42.4	39.4	1		1340	165	0.	.0	29.5	1		2200	265	0.	.0	29.5
1		0525	66	138.	42.4	39.4	1		1345	166	0.	.0	29.5	1		2205	266	0.	.0	29.5
1		0530	67	138.	42.2	39.4	1		1350	167	0.	.0	29.5	1		2210	267	0.	.0	29.5
1		0535	68	138.	41.9	39.4	1		1355	168	0.	.0	29.5	1		2215	268	0.	.0	29.5
1		0540	69	137.	41.5	39.3	1		1400	169	0.	.0	29.5	1		2220	269	0.	.0	29.5
1		0545	70	137.	41.0	39.2	1		1405	170	0.	.0	29.5	1		2225	270	0.	.0	29.5
1		0550	71	136.	40.4	39.1	1		1410	171	0.	.0	29.5	1		2230	271	0.	.0	29.5
1		0555	72	135.	39.8	39.0	1		1415	172	0.	.0	29.5	1		2235	272	0.	.0	29.5
1		0600	73	134.	39.1	38.9	1		1420	173	0.	.0	29.5	1		2240	273	0.	.0	29.5
1		0605	74	133.	38.4	38.8	1		1425	174	0.	.0	29.5	1		2245	274	0.	.0	29.5
1		0610	75	133.	37.7	38.7	1		1430	175	0.	.0	29.5	1		2250	275	0.	.0	29.5
1		0615	76	132.	37.0	38.6	1		1435	176	0.	.0	29.5	1		2255	276	0.	.0	29.5
1		0620	77	131.	36.2	38.4	1		1440	177	0.	.0	29.5	1		2300	277	0.	.0	29.5
1		0625	78	130.	35.4	38.3	1		1445	178	0.	.0	29.5	1		2305	278	0.	.0	29.5
1		0630	79	129.	34.6	38.2	1		1450	179	0.	.0	29.5	1		2310	279	0.	.0	29.5
1		0635	80	128.	33.8	38.1	1		1455	180	0.	.0	29.5	1		2315	280	0.	.0	29.5
1		0640	81	126.	33.0	37.9	1		1500	181	0.	.0	29.5	1		2320	281	0.	.0	29.5
1		0645	82	125.	32.2	37.8	1		1505	182	0.	.0	29.5	1		2325	282	0.	.0	29.5
1		0650	83	123.	31.3	37.6	1		1510	183	0.	.0	29.5	1		2330	283	0.	.0	29.5
1		0655	84	122.	30.5	37.5	1		1515	184	0.	.0	29.5	1		2335	284	0.	.0	29.5
1		0700	85	120.	29.7	37.3	1		1520	185	0.	.0	29.5	1		2340	285	0.	.0	29.5
1		0705	86	119.	28.9	37.2	1		1525	186	0.	.0	29.5	1		2345	286	0.	.0	29.5
1		0710	87	117.	28.1	37.0	1		1530	187	0.	.0	29.5	1		2350	287	0.	.0	29.5
1		0715	88	116.	27.3	36.9	1		1535	188	0.	.0	29.5	1		2355	288	0.	.0	29.5
1		0720	89	114.	26.5	36.8	1		1540	189	0.	.0	29.5	2		0000	289	0.	.0	29.5
1		0725	90	113.	25.7	36.6	1		1545	190	0.	.0	29.5	2		0005	290	0.	.0	29.5
1		0730	91	111.	24.9	36.5	1		1550	191	0.	.0	29.5	2		0010	291	0.	.0	29.5
1		0735	92	110.	24.2	36.3	1		1555	192	0.	.0	29.5	2		0015	292	0.	.0	29.5
1		0740	93	108.	23.4	36.2	1		1600	193	0.	.0	29.5	2		0020	293	0.	.0	29.5
1		0745	94	107.	22.7	36.1	1		1605	194	0.	.0	29.5	2		0025	294	0.	.0	29.5
1		0750	95	106.	22.0	35.9	1		1610	195	0.	.0	29.5	2		0030	295	0.	.0	29.5
1		0755	96	104.	21.2	35.8	1		1615	196	0.	.0	29.5	2		0035	296	0.	.0	29.5
1		0800	97	103.	20.5	35.7	1		1620	197	0.	.0	29.5	2		0040	297	0.	.0	29.5
1		0805	98	102.	19.8	35.6	1		1625	198	0.	.0	29.5	2		0045	298	0.	.0	29.5
1		0810	99	100.	19.1	35.4	1		1630	199	0.	.0	29.5	2		0050	299	0.	.0	29.5
1		0815	100	99.	18.4	35.3	1		1635	200	0.	.0	29.5	2		0055	300	0.	.0	29.5

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)	(CFS)				
138.	5.33		115.	35.	34.	34.
		(INCHES)	1.271	1.567	1.567	1.567
		(AC-FT)	57.	70.	70.	70.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
42.	5.33	28.	7.	7.	7.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
39.43	5.33	36.92	31.74	31.66	31.66

CUMULATIVE AREA = .84 SQ MI

HYDROGRAPH AT STATION DET1
PLAN 1, RATIO = .90

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	29.5	1		0820	101	96.	17.1	35.1	1		1640	201	0.	.0	29.5
1		0005	2	0.	.0	29.5	1		0825	102	95.	16.5	35.0	1		1645	202	0.	.0	29.5
1		0010	3	0.	.0	29.5	1		0830	103	94.	15.8	34.8	1		1650	203	0.	.0	29.5
1		0015	4	0.	.0	29.5	1		0835	104	93.	15.2	34.7	1		1655	204	0.	.0	29.5
1		0020	5	0.	.0	29.5	1		0840	105	92.	14.5	34.6	1		1700	205	0.	.0	29.5
1		0025	6	1.	.0	29.5	1		0845	106	90.	13.9	34.5	1		1705	206	0.	.0	29.5
1		0030	7	1.	.0	29.6	1		0850	107	89.	13.3	34.4	1		1710	207	0.	.0	29.5
1		0035	8	2.	.0	29.6	1		0855	108	88.	12.7	34.3	1		1715	208	0.	.0	29.5
1		0040	9	3.	.0	29.7	1		0900	109	87.	12.1	34.2	1		1720	209	0.	.0	29.5
1		0045	10	3.	.0	29.7	1		0905	110	86.	11.5	34.1	1		1725	210	0.	.0	29.5
1		0050	11	3.	.0	29.7	1		0910	111	84.	10.9	33.9	1		1730	211	0.	.0	29.5
1		0055	12	3.	.0	29.7	1		0915	112	81.	10.3	33.8	1		1735	212	0.	.0	29.5
1		0100	13	3.	.0	29.7	1		0920	113	78.	9.8	33.7	1		1740	213	0.	.0	29.5
1		0105	14	2.	.0	29.6	1		0925	114	76.	9.3	33.5	1		1745	214	0.	.0	29.5
1		0110	15	2.	.0	29.6	1		0930	115	73.	8.8	33.4	1		1750	215	0.	.0	29.5
1		0115	16	2.	.0	29.6	1		0935	116	71.	8.3	33.3	1		1755	216	0.	.0	29.5
1		0120	17	3.	.0	29.7	1		0940	117	68.	7.8	33.2	1		1800	217	0.	.0	29.5
1		0125	18	4.	.0	29.7	1		0945	118	66.	7.3	33.1	1		1805	218	0.	.0	29.5
1		0130	19	5.	.0	29.8	1		0950	119	64.	6.9	33.0	1		1810	219	0.	.0	29.5
1		0135	20	8.	.0	30.0	1		0955	120	62.	6.4	32.9	1		1815	220	0.	.0	29.5
1		0140	21	9.	.1	30.0	1		1000	121	60.	6.0	32.8	1		1820	221	0.	.0	29.5
1		0145	22	10.	.1	30.1	1		1005	122	58.	5.6	32.7	1		1825	222	0.	.0	29.5
1		0150	23	11.	.2	30.2	1		1010	123	56.	5.2	32.6	1		1830	223	0.	.0	29.5
1		0155	24	13.	.3	30.3	1		1015	124	54.	4.8	32.5	1		1835	224	0.	.0	29.5
1		0200	25	14.	.3	30.4	1		1020	125	52.	4.5	32.4	1		1840	225	0.	.0	29.5
1		0205	26	16.	.4	30.5	1		1025	126	50.	4.1	32.3	1		1845	226	0.	.0	29.5
1		0210	27	17.	.4	30.6	1		1030	127	49.	3.8	32.2	1		1850	227	0.	.0	29.5
1		0215	28	17.	.5	30.6	1		1035	128	47.	3.5	32.1	1		1855	228	0.	.0	29.5
1		0220	29	18.	.5	30.7	1		1040	129	45.	3.1	32.1	1		1900	229	0.	.0	29.5
1		0225	30	19.	.6	30.7	1		1045	130	43.	2.8	32.0	1		1905	230	0.	.0	29.5
1		0230	31	21.	.7	30.9	1		1050	131	41.	2.6	31.8	1		1910	231	0.	.0	29.5
1		0235	32	24.	.8	31.0	1		1055	132	38.	2.3	31.7	1		1915	232	0.	.0	29.5
1		0240	33	25.	.9	31.1	1		1100	133	36.	2.0	31.6	1		1920	233	0.	.0	29.5
1		0245	34	26.	1.0	31.1	1		1105	134	33.	1.8	31.5	1		1925	234	0.	.0	29.5
1		0250	35	27.	1.1	31.2	1		1110	135	31.	1.6	31.4	1		1930	235	0.	.0	29.5
1		0255	36	29.	1.3	31.2	1		1115	136	29.	1.4	31.3	1		1935	236	0.	.0	29.5
1		0300	37	30.	1.4	31.3	1		1120	137	27.	1.2	31.2	1		1940	237	0.	.0	29.5
1		0305	38	31.	1.5	31.4	1		1125	138	26.	1.0	31.1	1		1945	238	0.	.0	29.5
1		0310	39	33.	1.7	31.4	1		1130	139	24.	.8	31.0	1		1950	239	0.	.0	29.5
1		0315	40	35.	2.0	31.6	1		1135	140	21.	.6	30.8	1		1955	240	0.	.0	29.5
1		0320	41	39.	2.4	31.8	1		1140	141	18.	.5	30.7	1		2000	241	0.	.0	29.5
1		0325	42	46.	3.2	32.1	1		1145	142	16.	.4	30.5	1		2005	242	0.	.0	29.5
1		0330	43	53.	4.6	32.4	1		1150	143	13.	.3	30.4	1		2010	243	0.	.0	29.5
1		0335	44	63.	6.7	32.9	1		1155	144	12.	.2	30.2	1		2015	244	0.	.0	29.5
1		0340	45	77.	9.6	33.6	1		1200	145	10.	.1	30.1	1		2020	245	0.	.0	29.5
1		0345	46	89.	13.1	34.4	1		1205	146	9.	.1	30.0	1		2025	246	0.	.0	29.5
1		0350	47	96.	17.0	35.1	1		1210	147	5.	.0	29.8	1		2030	247	0.	.0	29.5
1		0355	48	104.	21.0	35.8	1		1215	148	1.	.0	29.6	1		2035	248	0.	.0	29.5
1		0400	49	111.	24.7	36.4	1		1220	149	0.	.0	29.5	1		2040	249	0.	.0	29.5
1		0405	50	117.	28.0	37.0	1		1225	150	0.	.0	29.5	1		2045	250	0.	.0	29.5
1		0410	51	122.	30.7	37.5	1		1230	151	0.	.0	29.5	1		2050	251	0.	.0	29.5
1		0415	52	126.	32.9	37.9	1		1235	152	0.	.0	29.5	1		2055	252	0.	.0	29.5
1		0420	53	129.	34.5	38.2	1		1240	153	0.	.0	29.5	1		2100	253	0.	.0	29.5
1		0425	54	130.	35.8	38.4	1		1245	154	0.	.0	29.5	1		2105	254	0.	.0	29.5
1		0430	55	131.	36.7	38.5	1		1250	155	0.	.0	29.5	1		2110	255	0.	.0	29.5
1		0435	56	132.	37.4	38.6	1		1255	156	0.	.0	29.5	1		2115	256	0.	.0	29.5
1		0440	57	133.	38.0	38.7	1		1300	157	0.	.0	29.5	1		2120	257	0.	.0	29.5
1		0445	58	134.	38.5	38.8	1		1305	158	0.	.0	29.5	1		2125	258	0.	.0	29.5
1		0450	59	134.	39.1	38.9	1		1310	159	0.	.0	29.5	1		2130	259	0.	.0	29.5
1		0455	60	135.	39.6	39.0	1		1315	160	0.	.0	29.5	1		2135	260	0.	.0	29.5
1		0500	61	136.	40.2	39.1	1		1320	161	0.	.0	29.5	1		2140	261	0.	.0	29.5
1		0505	62	136.	40.7	39.2	1		1325	162	0.	.0	29.5	1		2145	262	0.	.0	29.5
1		0510	63	137.	41.1	39.2	1		1330	163	0.	.0	29.5	1		2150	263	0.	.0	29.5
1		0515	64	137.	41.4	39.3	1		1335	164	0.	.0	29.5	1		2155	264	0.	.0	29.5
1		0520	65	137.	41.5	39.3	1		1340	165	0.	.0	29.5	1		2200	265	0.	.0	29.5
1		0525	66	137.	41.5	39.3	1		1345	166	0.	.0	29.5	1		2205	266	0.	.0	29.5
1		0530	67	137.	41.4	39.3	1		1350	167	0.	.0	29.5	1		2210	267	0.	.0	29.5
1		0535	68	137.	41.1	39.2	1		1355	168	0.	.0	29.5	1		2215	268	0.	.0	29.5
1		0540	69	136.	40.7	39.2	1		1400	169	0.	.0	29.5	1		2220	269	0.	.0	29.5
1		0545	70	136.	40.1	39.1	1		1405	170	0.	.0	29.5	1		2225	270	0.	.0	29.5
1		0550	71	135.	39.6	39.0	1		1410	171	0.	.0	29.5	1		2230	271	0.	.0	29.5
1		0555	72	134.	38.9	38.9	1		1415	172	0.	.0	29.5	1		2235	272	0.	.0	29.5
1		0600	73	133.	38.3	38.8	1		1420	173	0.	.0	29.5	1		2240	273	0.	.0	29.5
1		0605	74	132.	37.6	38.7	1		1425	174	0.	.0	29.5	1		2245	274	0.	.0	29.5
1		0610	75	131.	36.9	38.5	1		1430	175	0.	.0	29.5	1		2250	275	0.	.0	29.5
1		0615	76	131.	36.1	38.4	1		1435	176	0.	.0	29.5	1		2255	276	0.	.0	29.5
1		0620	77	130.	35.4	38.3	1		1440	177	0.	.0	29.5	1		2300	277	0.	.0	29.5
1		0625	78	129.	34.6	38.2	1		1445	178	0.	.0	29.5	1		2305	278	0.	.0	29.5
1		0630	79	128.	33.8	38.1	1		1450	179	0.	.0	29.5	1		2310	279	0.	.0	29.5
1		0635	80	126.	33.0	37.9	1		1455	180	0.	.0	29.5	1		2315	280	0.	.0	29.5
1		0640	81	125.	32.2	37.8	1		1500	181	0.	.0	29.5	1		2320	281	0.	.0	29.5
1		0645	82	123.	31.4	37.6	1		1505	182	0.	.0	29.5	1		2325	282	0.	.0	29.5
1		0650	83	122.	30.5	37.5	1		1510	183	0.	.0	29.5	1		2330	283	0.	.0	29.5
1		0655	84	120.	29.7	37.3	1		1515	184	0.	.0	29.5	1		2335	284	0.	.0	29.5
1		0700	85	119.	28.9	37.2	1		1520	185	0.	.0	29.5	1		2340	285	0.	.0	29.5
1		0705	86	117.	28.1	37.0	1		1525	186	0.	.0	29.5	1		2345	286	0.	.0	29.5
1		0710	87	116.	27.3	36.9	1		1530	187	0.	.0	29.5	1		2350	287	0.	.0	29.5
1		0715	88	114.	26.5	36.8	1		1535	188	0.	.0	29.5	1		2355	288	0.	.0	29.5
1		0720	89	113.	25.8	36.6	1		1540	189	0.	.0	29.5	2		0000	289	0.	.0	29.5
1		0725	90	111.	25.0	36.5	1		1545	190	0.	.0	29.5	2		0005	290	0.	.0	29.5
1		0730	91	110.	24.2	36.3	1		1550	191	0.	.0	29.5	2		0010	291	0.	.0	29.5
1		0735	92	108.	23.5	36.2	1		1555	192	0.	.0	29.5	2		0015	292	0.	.0	29.5
1		0740	93	107.	22.7	36.1	1		1600	193	0.	.0	29.5	2		0020	293	0.	.0	29.5
1		0745	94	106.	22.0	35.9	1		1605	194	0.	.0	29.5	2		0025	294	0.	.0	29.5
1		0750	95	104.	21.3	35.8	1		1610	195	0.	.0	29.5	2		0030	295	0.	.0	29.5
1		0755	96	103.	20.6	35.7	1		1615	196	0.	.0	29.5	2		0035	296	0.	.0	29.5
1		0800	97	102.	19.9	35.6	1		1620	197	0.	.0	29.5	2		0040	297	0.	.0	29.5
1		0805	98	100.	19.2	35.4	1		1625	198	0.	.0	29.5	2		0045	298	0.	.0	29.5
1		0810	99	99.	18.5	35.3	1		1630	199	0.	.0	29.5	2		0050	299	0.	.0	29.5
1		0815	100	98.	17.8	35.2	1		1635	200	0.	.0	29.5	2		0055	300	0.	.0	29.5

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
137.	5.33	(CFS)	113.	35.	33.	33.
		(INCHES)	1.258	1.541	1.541	1.541
		(AC-FT)	56.	69.	69.	69.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
42.	5.33	27.	7.	7.	7.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
39.29	5.33	36.80	31.69	31.61	31.61

CUMULATIVE AREA = .84 SQ MI

HYDROGRAPH AT STATION DET1
PLAN 1, RATIO = .70

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	29.5	1		0820	101	61.	6.3	32.8	1		1640	201	0.	.0	29.5
1		0005	2	0.	.0	29.5	1		0825	102	59.	5.9	32.7	1		1645	202	0.	.0	29.5
1		0010	3	0.	.0	29.5	1		0830	103	57.	5.5	32.6	1		1650	203	0.	.0	29.5
1		0015	4	0.	.0	29.5	1		0835	104	55.	5.1	32.5	1		1655	204	0.	.0	29.5
1		0020	5	0.	.0	29.5	1		0840	105	53.	4.8	32.4	1		1700	205	0.	.0	29.5
1		0025	6	0.	.0	29.5	1		0845	106	51.	4.4	32.4	1		1705	206	0.	.0	29.5
1		0030	7	0.	.0	29.5	1		0850	107	50.	4.0	32.3	1		1710	207	0.	.0	29.5
1		0035	8	1.	.0	29.6	1		0855	108	48.	3.7	32.2	1		1715	208	0.	.0	29.5
1		0040	9	1.	.0	29.6	1		0900	109	46.	3.4	32.1	1		1720	209	0.	.0	29.5
1		0045	10	1.	.0	29.6	1		0905	110	45.	3.1	32.0	1		1725	210	0.	.0	29.5
1		0050	11	1.	.0	29.5	1		0910	111	43.	2.8	31.9	1		1730	211	0.	.0	29.5
1		0055	12	0.	.0	29.5	1		0915	112	40.	2.5	31.8	1		1735	212	0.	.0	29.5
1		0100	13	0.	.0	29.5	1		0920	113	37.	2.2	31.7	1		1740	213	0.	.0	29.5
1		0105	14	0.	.0	29.5	1		0925	114	35.	2.0	31.6	1		1745	214	0.	.0	29.5
1		0110	15	0.	.0	29.5	1		0930	115	33.	1.7	31.5	1		1750	215	0.	.0	29.5
1		0115	16	0.	.0	29.5	1		0935	116	31.	1.5	31.3	1		1755	216	0.	.0	29.5
1		0120	17	0.	.0	29.5	1		0940	117	29.	1.3	31.3	1		1800	217	0.	.0	29.5
1		0125	18	1.	.0	29.5	1		0945	118	27.	1.1	31.2	1		1805	218	0.	.0	29.5
1		0130	19	1.	.0	29.6	1		0950	119	25.	.9	31.1	1		1810	219	0.	.0	29.5
1		0135	20	2.	.0	29.6	1		0955	120	24.	.8	31.0	1		1815	220	0.	.0	29.5
1		0140	21	3.	.0	29.7	1		1000	121	20.	.6	30.8	1		1820	221	0.	.0	29.5
1		0145	22	5.	.0	29.8	1		1005	122	18.	.5	30.6	1		1825	222	0.	.0	29.5
1		0150	23	6.	.0	29.9	1		1010	123	15.	.4	30.5	1		1830	223	0.	.0	29.5
1		0155	24	7.	.0	30.0	1		1015	124	13.	.3	30.3	1		1835	224	0.	.0	29.5
1		0200	25	8.	.0	30.0	1		1020	125	11.	.2	30.2	1		1840	225	0.	.0	29.5
1		0205	26	8.	.0	30.0	1		1025	126	10.	.1	30.1	1		1845	226	0.	.0	29.5
1		0210	27	8.	.1	30.0	1		1030	127	8.	.1	30.0	1		1850	227	0.	.0	29.5
1		0215	28	8.	.1	30.0	1		1035	128	3.	.0	29.7	1		1855	228	0.	.0	29.5
1		0220	29	8.	.1	30.0	1		1040	129	1.	.0	29.5	1		1900	229	0.	.0	29.5
1		0225	30	9.	.1	30.1	1		1045	130	0.	.0	29.5	1		1905	230	0.	.0	29.5
1		0230	31	10.	.1	30.1	1		1050	131	0.	.0	29.5	1		1910	231	0.	.0	29.5
1		0235	32	11.	.2	30.2	1		1055	132	0.	.0	29.5	1		1915	232	0.	.0	29.5
1		0240	33	12.	.2	30.3	1		1100	133	0.	.0	29.5	1		1920	233	0.	.0	29.5
1		0245	34	14.	.3	30.4	1		1105	134	0.	.0	29.5	1		1925	234	0.	.0	29.5
1		0250	35	15.	.4	30.5	1		1110	135	0.	.0	29.5	1		1930	235	0.	.0	29.5
1		0255	36	17.	.4	30.6	1		1115	136	0.	.0	29.5	1		1935	236	0.	.0	29.5
1		0300	37	18.	.5	30.6	1		1120	137	0.	.0	29.5	1		1940	237	0.	.0	29.5
1		0305	38	19.	.6	30.7	1		1125	138	0.	.0	29.5	1		1945	238	0.	.0	29.5
1		0310	39	21.	.6	30.8	1		1130	139	0.	.0	29.5	1		1950	239	0.	.0	29.5
1		0315	40	24.	.8	31.0	1		1135	140	0.	.0	29.5	1		1955	240	0.	.0	29.5
1		0320	41	26.	1.0	31.1	1		1140	141	0.	.0	29.5	1		2000	241	0.	.0	29.5
1		0325	42	31.	1.5	31.3	1		1145	142	0.	.0	29.5	1		2005	242	0.	.0	29.5
1		0330	43	39.	2.4	31.7	1		1150	143	0.	.0	29.5	1		2010	243	0.	.0	29.5
1		0335	44	48.	3.7	32.2	1		1155	144	0.	.0	29.5	1		2015	244	0.	.0	29.5
1		0340	45	57.	5.5	32.6	1		1200	145	0.	.0	29.5	1		2020	245	0.	.0	29.5
1		0345	46	69.	7.8	33.2	1		1205	146	0.	.0	29.5	1		2025	246	0.	.0	29.5
1		0350	47	81.	10.4	33.8	1		1210	147	0.	.0	29.5	1		2030	247	0.	.0	29.5
1		0355	48	88.	12.9	34.3	1		1215	148	0.	.0	29.5	1		2035	248	0.	.0	29.5
1		0400	49	93.	15.3	34.7	1		1220	149	0.	.0	29.5	1		2040	249	0.	.0	29.5
1		0405	50	97.	17.5	35.1	1		1225	150	0.	.0	29.5	1		2045	250	0.	.0	29.5
1		0410	51	100.	19.2	35.4	1		1230	151	0.	.0	29.5	1		2050	251	0.	.0	29.5
1		0415	52	103.	20.6	35.7	1		1235	152	0.	.0	29.5	1		2055	252	0.	.0	29.5
1		0420	53	105.	21.6	35.9	1		1240	153	0.	.0	29.5	1		2100	253	0.	.0	29.5
1		0425	54	106.	22.4	36.0	1		1245	154	0.	.0	29.5	1		2105	254	0.	.0	29.5
1		0430	55	107.	22.9	36.1	1		1250	155	0.	.0	29.5	1		2110	255	0.	.0	29.5
1		0435	56	108.	23.3	36.2	1		1255	156	0.	.0	29.5	1		2115	256	0.	.0	29.5
1		0440	57	109.	23.6	36.2	1		1300	157	0.	.0	29.5	1		2120	257	0.	.0	29.5
1		0445	58	109.	23.9	36.3	1		1305	158	0.	.0	29.5	1		2125	258	0.	.0	29.5
1		0450	59	110.	24.2	36.3	1		1310	159	0.	.0	29.5	1		2130	259	0.	.0	29.5
1		0455	60	110.	24.5	36.4	1		1315	160	0.	.0	29.5	1		2135	260	0.	.0	29.5
1		0500	61	111.	24.8	36.4	1		1320	161	0.	.0	29.5	1		2140	261	0.	.0	29.5
1		0505	62	111.	25.0	36.5	1		1325	162	0.	.0	29.5	1		2145	262	0.	.0	29.5
1		0510	63	112.	25.3	36.5	1		1330	163	0.	.0	29.5	1		2150	263	0.	.0	29.5
1		0515	64	112.	25.4	36.6	1		1335	164	0.	.0	29.5	1		2155	264	0.	.0	29.5
1		0520	65	112.	25.4	36.6	1		1340	165	0.	.0	29.5	1		2200	265	0.	.0	29.5
1		0525	66	112.	25.3	36.5	1		1345	166	0.	.0	29.5	1		2205	266	0.	.0	29.5
1		0530	67	112.	25.1	36.5	1		1350	167	0.	.0	29.5	1		2210	267	0.	.0	29.5
1		0535	68	111.	24.8	36.5	1		1355	168	0.	.0	29.5	1		2215	268	0.	.0	29.5
1		0540	69	110.	24.4	36.4	1		1400	169	0.	.0	29.5	1		2220	269	0.	.0	29.5
1		0545	70	109.	24.0	36.3	1		1405	170	0.	.0	29.5	1		2225	270	0.	.0	29.5
1		0550	71	108.	23.5	36.2	1		1410	171	0.	.0	29.5	1		2230	271	0.	.0	29.5
1		0555	72	107.	22.9	36.1	1		1415	172	0.	.0	29.5	1		2235	272	0.	.0	29.5
1		0600	73	106.	22.4	36.0	1		1420	173	0.	.0	29.5	1		2240	273	0.	.0	29.5
1		0605	74	105.	21.8	35.9	1		1425	174	0.	.0	29.5	1		2245	274	0.	.0	29.5
1		0610	75	104.	21.2	35.8	1		1430	175	0.	.0	29.5	1		2250	275	0.	.0	29.5
1		0615	76	103.	20.6	35.7	1		1435	176	0.	.0	29.5	1		2255	276	0.	.0	29.5
1		0620	77	102.	20.0	35.6	1		1440	177	0.	.0	29.5	1		2300	277	0.	.0	29.5
1		0625	78	101.	19.4	35.5	1		1445	178	0.	.0	29.5	1		2305	278	0.	.0	29.5
1		0630	79	100.	18.8	35.4	1		1450	179	0.	.0	29.5	1		2310	279	0.	.0	29.5
1		0635	80	98.	18.2	35.3	1		1455	180	0.	.0	29.5	1		2315	280	0.	.0	29.5
1		0640	81	97.	17.5	35.1	1		1500	181	0.	.0	29.5	1		2320	281	0.	.0	29.5
1		0645	82	96.	16.9	35.0	1		1505	182	0.	.0	29.5	1		2325	282	0.	.0	29.5
1		0650	83	95.	16.3	34.9	1		1510	183	0.	.0	29.5	1		2330	283	0.	.0	29.5
1		0655	84	94.	15.6	34.8	1		1515	184	0.	.0	29.5	1		2335	284	0.	.0	29.5
1		0700	85	92.	15.0	34.7	1		1520	185	0.	.0	29.5	1		2340	285	0.	.0	29.5
1		0705	86	91.	14.4	34.6	1		1525	186	0.	.0	29.5	1		2345	286	0.	.0	29.5
1		0710	87	90.	13.7	34.5	1		1530	187	0.	.0	29.5	1		2350	287	0.	.0	29.5
1		0715	88	89.	13.1	34.4	1		1535	188	0.	.0	29.5	1		2355	288	0.	.0	29.5
1		0720	89	88.	12.5	34.2	1		1540	189	0.	.0	29.5	2		0000	289	0.	.0	29.5
1		0725	90	87.	11.9	34.1	1		1545	190	0.	.0	29.5	2		0005	290	0.	.0	29.5
1		0730	91	86.	11.3	34.0	1		1550	191	0.	.0	29.5	2		0010	291	0.	.0	29.5
1		0735	92	83.	10.8	33.9	1		1555	192	0.	.0	29.5	2		0015	292	0.	.0	29.5
1		0740	93	80.	10.2	33.8	1		1600	193	0.	.0	29.5	2		0020	293	0.	.0	29.5
1		0745	94	78.	9.7	33.6	1		1605	194	0.	.0	29.5	2		0025	294	0.	.0	29.5
1		0750	95	75.	9.1	33.5	1		1610	195	0.	.0	29.5	2		0030	295	0.	.0	29.5
1		0755	96	73.	8.6	33.4	1		1615	196	0.	.0	29.5	2		0035	296	0.	.0	29.5
1		0800	97	70.	8.1	33.3	1		1620	197	0.	.0	29.5	2		0040	297	0.	.0	29.5
1		0805	98	68.	7.7	33.1	1		1625	198	0.	.0	29.5	2		0045	298	0.	.0	29.5
1		0810	99	65.	7.2	33.0	1		1630	199	0.	.0	29.5	2		0050	299	0.	.0	29.5
1		0815	100	63.	6.8	32.9	1		1635	200	0.	.0	29.5	2		0055	300	0.	.0	29.5

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)	(CFS)				
112.	5.33		85.	23.	22.	22.
		(INCHES)	.944	1.032	1.032	1.032
		(AC-FT)	42.	46.	46.	46.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
(AC-FT)	(HR)				
25.	5.33	15.	4.	4.	4.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
(FEET)	(HR)				
36.56	5.33	34.48	30.87	30.82	30.82

CUMULATIVE AREA = .84 SQ MI

HYDROGRAPH AT STATION DET1
PLAN 1, RATIO = .57

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	29.5	1		0820	101	33.	1.7	31.5	1		1640	201	0.	.0	29.5
1		0005	2	0.	.0	29.5	1		0825	102	31.	1.5	31.4	1		1645	202	0.	.0	29.5
1		0010	3	0.	.0	29.5	1		0830	103	29.	1.3	31.3	1		1650	203	0.	.0	29.5
1		0015	4	0.	.0	29.5	1		0835	104	27.	1.1	31.2	1		1655	204	0.	.0	29.5
1		0020	5	0.	.0	29.5	1		0840	105	25.	.9	31.1	1		1700	205	0.	.0	29.5
1		0025	6	0.	.0	29.5	1		0845	106	24.	.8	31.0	1		1705	206	0.	.0	29.5
1		0030	7	0.	.0	29.5	1		0850	107	21.	.6	30.8	1		1710	207	0.	.0	29.5
1		0035	8	0.	.0	29.5	1		0855	108	18.	.5	30.6	1		1715	208	0.	.0	29.5
1		0040	9	0.	.0	29.5	1		0900	109	15.	.4	30.5	1		1720	209	0.	.0	29.5
1		0045	10	0.	.0	29.5	1		0905	110	13.	.3	30.3	1		1725	210	0.	.0	29.5
1		0050	11	0.	.0	29.5	1		0910	111	11.	.2	30.2	1		1730	211	0.	.0	29.5
1		0055	12	0.	.0	29.5	1		0915	112	10.	.1	30.1	1		1735	212	0.	.0	29.5
1		0100	13	0.	.0	29.5	1		0920	113	8.	.1	30.0	1		1740	213	0.	.0	29.5
1		0105	14	0.	.0	29.5	1		0925	114	4.	.0	29.7	1		1745	214	0.	.0	29.5
1		0110	15	0.	.0	29.5	1		0930	115	1.	.0	29.6	1		1750	215	0.	.0	29.5
1		0115	16	0.	.0	29.5	1		0935	116	0.	.0	29.5	1		1755	216	0.	.0	29.5
1		0120	17	0.	.0	29.5	1		0940	117	0.	.0	29.5	1		1800	217	0.	.0	29.5
1		0125	18	0.	.0	29.5	1		0945	118	0.	.0	29.5	1		1805	218	0.	.0	29.5
1		0130	19	0.	.0	29.5	1		0950	119	0.	.0	29.5	1		1810	219	0.	.0	29.5
1		0135	20	1.	.0	29.5	1		0955	120	0.	.0	29.5	1		1815	220	0.	.0	29.5
1		0140	21	1.	.0	29.6	1		1000	121	0.	.0	29.5	1		1820	221	0.	.0	29.5
1		0145	22	1.	.0	29.6	1		1005	122	0.	.0	29.5	1		1825	222	0.	.0	29.5
1		0150	23	2.	.0	29.6	1		1010	123	0.	.0	29.5	1		1830	223	0.	.0	29.5
1		0155	24	2.	.0	29.6	1		1015	124	0.	.0	29.5	1		1835	224	0.	.0	29.5
1		0200	25	2.	.0	29.6	1		1020	125	0.	.0	29.5	1		1840	225	0.	.0	29.5
1		0205	26	2.	.0	29.6	1		1025	126	0.	.0	29.5	1		1845	226	0.	.0	29.5
1		0210	27	2.	.0	29.6	1		1030	127	0.	.0	29.5	1		1850	227	0.	.0	29.5
1		0215	28	2.	.0	29.7	1		1035	128	0.	.0	29.5	1		1855	228	0.	.0	29.5
1		0220	29	3.	.0	29.7	1		1040	129	0.	.0	29.5	1		1900	229	0.	.0	29.5
1		0225	30	5.	.0	29.8	1		1045	130	0.	.0	29.5	1		1905	230	0.	.0	29.5
1		0230	31	6.	.0	29.9	1		1050	131	0.	.0	29.5	1		1910	231	0.	.0	29.5
1		0235	32	8.	.0	30.0	1		1055	132	0.	.0	29.5	1		1915	232	0.	.0	29.5
1		0240	33	8.	.1	30.0	1		1100	133	0.	.0	29.5	1		1920	233	0.	.0	29.5
1		0245	34	8.	.1	30.0	1		1105	134	0.	.0	29.5	1		1925	234	0.	.0	29.5
1		0250	35	9.	.1	30.1	1		1110	135	0.	.0	29.5	1		1930	235	0.	.0	29.5
1		0255	36	9.	.1	30.1	1		1115	136	0.	.0	29.5	1		1935	236	0.	.0	29.5
1		0300	37	10.	.1	30.1	1		1120	137	0.	.0	29.5	1		1940	237	0.	.0	29.5
1		0305	38	11.	.2	30.2	1		1125	138	0.	.0	29.5	1		1945	238	0.	.0	29.5
1		0310	39	12.	.2	30.2	1		1130	139	0.	.0	29.5	1		1950	239	0.	.0	29.5
1		0315	40	13.	.3	30.3	1		1135	140	0.	.0	29.5	1		1955	240	0.	.0	29.5
1		0320	41	17.	.4	30.6	1		1140	141	0.	.0	29.5	1		2000	241	0.	.0	29.5
1		0325	42	23.	.7	31.0	1		1145	142	0.	.0	29.5	1		2005	242	0.	.0	29.5
1		0330	43	29.	1.3	31.2	1		1150	143	0.	.0	29.5	1		2010	243	0.	.0	29.5
1		0335	44	37.	2.2	31.6	1		1155	144	0.	.0	29.5	1		2015	244	0.	.0	29.5
1		0340	45	46.	3.4	32.1	1		1200	145	0.	.0	29.5	1		2020	245	0.	.0	29.5
1		0345	46	54.	4.9	32.5	1		1205	146	0.	.0	29.5	1		2025	246	0.	.0	29.5
1		0350	47	63.	6.6	32.9	1		1210	147	0.	.0	29.5	1		2030	247	0.	.0	29.5
1		0355	48	71.	8.4	33.3	1		1215	148	0.	.0	29.5	1		2035	248	0.	.0	29.5
1		0400	49	79.	10.0	33.7	1		1220	149	0.	.0	29.5	1		2040	249	0.	.0	29.5
1		0405	50	86.	11.4	34.0	1		1225	150	0.	.0	29.5	1		2045	250	0.	.0	29.5
1		0410	51	88.	12.6	34.3	1		1230	151	0.	.0	29.5	1		2050	251	0.	.0	29.5
1		0415	52	89.	13.4	34.4	1		1235	152	0.	.0	29.5	1		2055	252	0.	.0	29.5
1		0420	53	91.	14.1	34.5	1		1240	153	0.	.0	29.5	1		2100	253	0.	.0	29.5
1		0425	54	92.	14.5	34.6	1		1245	154	0.	.0	29.5	1		2105	254	0.	.0	29.5
1		0430	55	92.	14.8	34.7	1		1250	155	0.	.0	29.5	1		2110	255	0.	.0	29.5
1		0435	56	92.	15.0	34.7	1		1255	156	0.	.0	29.5	1		2115	256	0.	.0	29.5
1		0440	57	93.	15.2	34.7	1		1300	157	0.	.0	29.5	1		2120	257	0.	.0	29.5
1		0445	58	93.	15.3	34.7	1		1305	158	0.	.0	29.5	1		2125	258	0.	.0	29.5
1		0450	59	93.	15.4	34.8	1		1310	159	0.	.0	29.5	1		2130	259	0.	.0	29.5
1		0455	60	93.	15.6	34.8	1		1315	160	0.	.0	29.5	1		2135	260	0.	.0	29.5
1		0500	61	94.	15.7	34.8	1		1320	161	0.	.0	29.5	1		2140	261	0.	.0	29.5
1		0505	62	94.	15.8	34.8	1		1325	162	0.	.0	29.5	1		2145	262	0.	.0	29.5
1		0510	63	94.	15.9	34.9	1		1330	163	0.	.0	29.5	1		2150	263	0.	.0	29.5
1		0515	64	94.	15.9	34.9	1		1335	164	0.	.0	29.5	1		2155	264	0.	.0	29.5
1		0520	65	94.	15.9	34.8	1		1340	165	0.	.0	29.5	1		2200	265	0.	.0	29.5
1		0525	66	94.	15.7	34.8	1		1345	166	0.	.0	29.5	1		2205	266	0.	.0	29.5
1		0530	67	93.	15.5	34.8	1		1350	167	0.	.0	29.5	1		2210	267	0.	.0	29.5
1		0535	68	93.	15.2	34.7	1		1355	168	0.	.0	29.5	1		2215	268	0.	.0	29.5
1		0540	69	92.	14.9	34.7	1		1400	169	0.	.0	29.5	1		2220	269	0.	.0	29.5
1		0545	70	91.	14.5	34.6	1		1405	170	0.	.0	29.5	1		2225	270	0.	.0	29.5
1		0550	71	91.	14.0	34.5	1		1410	171	0.	.0	29.5	1		2230	271	0.	.0	29.5
1		0555	72	90.	13.6	34.4	1		1415	172	0.	.0	29.5	1		2235	272	0.	.0	29.5
1		0600	73	89.	13.1	34.3	1		1420	173	0.	.0	29.5	1		2240	273	0.	.0	29.5
1		0605	74	88.	12.6	34.3	1		1425	174	0.	.0	29.5	1		2245	274	0.	.0	29.5
1		0610	75	87.	12.1	34.2	1		1430	175	0.	.0	29.5	1		2250	275	0.	.0	29.5
1		0615	76	86.	11.6	34.1	1		1435	176	0.	.0	29.5	1		2255	276	0.	.0	29.5
1		0620	77	85.	11.1	34.0	1		1440	177	0.	.0	29.5	1		2300	277	0.	.0	29.5
1		0625	78	82.	10.6	33.9	1		1445	178	0.	.0	29.5	1		2305	278	0.	.0	29.5
1		0630	79	80.	10.1	33.7	1		1450	179	0.	.0	29.5	1		2310	279	0.	.0	29.5
1		0635	80	77.	9.6	33.6	1		1455	180	0.	.0	29.5	1		2315	280	0.	.0	29.5
1		0640	81	75.	9.1	33.5	1		1500	181	0.	.0	29.5	1		2320	281	0.	.0	29.5
1		0645	82	72.	8.6	33.4	1		1505	182	0.	.0	29.5	1		2325	282	0.	.0	29.5
1		0650	83	70.	8.1	33.3	1		1510	183	0.	.0	29.5	1		2330	283	0.	.0	29.5
1		0655	84	68.	7.6	33.1	1		1515	184	0.	.0	29.5	1		2335	284	0.	.0	29.5
1		0700	85	65.	7.2	33.0	1		1520	185	0.	.0	29.5	1		2340	285	0.	.0	29.5
1		0705	86	63.	6.8	32.9	1		1525	186	0.	.0	29.5	1		2345	286	0.	.0	29.5
1		0710	87	61.	6.3	32.8	1		1530	187	0.	.0	29.5	1		2350	287	0.	.0	29.5
1		0715	88	59.	5.9	32.7	1		1535	188	0.	.0	29.5	1		2355	288	0.	.0	29.5
1		0720	89	57.	5.5	32.6	1		1540	189	0.	.0	29.5	2		0000	289	0.	.0	29.5
1		0725	90	55.	5.1	32.5	1		1545	190	0.	.0	29.5	2		0005	290	0.	.0	29.5
1		0730	91	53.	4.8	32.4	1		1550	191	0.	.0	29.5	2		0010	291	0.	.0	29.5
1		0735	92	52.	4.4	32.4	1		1555	192	0.	.0	29.5	2		0015	292	0.	.0	29.5
1		0740	93	50.	4.1	32.3	1		1600	193	0.	.0	29.5	2		0020	293	0.	.0	29.5
1		0745	94	48.	3.7	32.2	1		1605	194	0.	.0	29.5	2		0025	294	0.	.0	29.5
1		0750	95	47.	3.4	32.1	1		1610	195	0.	.0	29.5	2		0030	295	0.	.0	29.5
1		0755	96	45.	3.1	32.0	1		1615	196	0.	.0	29.5	2		0035	296	0.	.0	29.5
1		0800	97	43.	2.8	31.9	1		1620	197	0.	.0	29.5	2		0040	297	0.	.0	29.5
1		0805	98	40.	2.5	31.8	1		1625	198	0.	.0	29.5	2		0045	298	0.	.0	29.5
1		0810	99	38.	2.2	31.7	1		1630	199	0.	.0	29.5	2		0050	299	0.	.0	29.5
1		0815	100	35.	2.0	31.6	1		1635	200	0.	.0	29.5	2		0055	300	0.	.0	29.5

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)	(CFS)				
94.	5.25		63.	16.	16.	16.
		(INCHES)	.703	.723	.723	.723
		(AC-FT)	31.	32.	32.	32.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
(AC-FT)	(HR)				
16.	5.25	8.	2.	2.	2.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
(FEET)	(HR)				
34.86	5.25	33.03	30.41	30.38	30.38

CUMULATIVE AREA = .84 SQ MI

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          **************
          *            *
642 KK    *    DET2    *
          *            *
          **************

644 KO          OUTPUT CONTROL VARIABLES
                     IPRNT        1  PRINT CONTROL
                     IPLOT        0  PLOT CONTROL
                     QSCAL       0.  HYDROGRAPH PLOT SCALE

              HYDROGRAPH ROUTING DATA

645 RS          STORAGE ROUTING
                     NSTPS        1  NUMBER OF SUBREACHES
                      ITYP     ELEV  TYPE OF INITIAL CONDITION
                    RSVRIC    23.00  INITIAL CONDITION
                         X      .00 WORKING R AND D COEFFICIENT

646 SA          AREA          .0       .8       8.8      9.7      10.4

647 SE          ELEVATION   23.00    24.00    29.00    30.00    32.00

648 SQ          DISCHARGE     0.       17.      42.      46.      53.

649 SE          ELEVATION   23.00    25.00    29.00    30.00    32.00
                                                        ***

                                COMPUTED STORAGE-ELEVATION DATA

              STORAGE          .00      .25    20.40    29.61    49.71
            ELEVATION        23.00    24.00    29.00    30.00    32.00

                            COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

              STORAGE          .00      .25     1.44    20.40    29.61    49.71
              OUTFLOW          .00     8.28    16.57    41.71    45.89    53.28
            ELEVATION        23.00    24.00    25.00    29.00    30.00    32.00
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HYDROGRAPH AT STATION DET2
PLAN 1, RATIO = 1.00

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DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	23.0	1		0820	101	47.	33.8	30.4	1		1640	201	36.	15.8	28.0
1		0005	2	0.	.0	23.0	1		0825	102	47.	33.9	30.4	1		1645	202	35.	15.6	28.0
1		0010	3	0.	.0	23.0	1		0830	103	47.	33.9	30.4	1		1650	203	35.	15.3	27.9
1		0015	4	0.	.0	23.0	1		0835	104	48.	34.0	30.4	1		1655	204	35.	15.1	27.9
1		0020	5	0.	.0	23.0	1		0840	105	48.	34.1	30.4	1		1700	205	34.	14.8	27.8
1		0025	6	0.	.0	23.1	1		0845	106	48.	34.1	30.4	1		1705	206	34.	14.6	27.8
1		0030	7	1.	.0	23.1	1		0850	107	48.	34.2	30.5	1		1710	207	34.	14.4	27.7
1		0035	8	2.	.1	23.2	1		0855	108	48.	34.2	30.5	1		1715	208	33.	14.1	27.7
1		0040	9	3.	.1	23.3	1		0900	109	48.	34.3	30.5	1		1720	209	33.	13.9	27.6
1		0045	10	3.	.1	23.4	1		0905	110	48.	34.3	30.5	1		1725	210	33.	13.7	27.6
1		0050	11	4.	.1	23.5	1		0910	111	48.	34.3	30.5	1		1730	211	33.	13.5	27.5
1		0055	12	4.	.1	23.5	1		0915	112	48.	34.3	30.5	1		1735	212	32.	13.2	27.5
1		0100	13	4.	.1	23.5	1		0920	113	48.	34.4	30.5	1		1740	213	32.	13.0	27.4
1		0105	14	4.	.1	23.5	1		0925	114	48.	34.4	30.5	1		1745	214	32.	12.8	27.4
1		0110	15	4.	.1	23.5	1		0930	115	48.	34.4	30.5	1		1750	215	31.	12.6	27.4
1		0115	16	4.	.1	23.5	1		0935	116	48.	34.4	30.5	1		1755	216	31.	12.4	27.3
1		0120	17	4.	.1	23.5	1		0940	117	48.	34.4	30.5	1		1800	217	31.	12.2	27.3
1		0125	18	4.	.1	23.5	1		0945	118	48.	34.4	30.5	1		1805	218	30.	11.9	27.2
1		0130	19	5.	.2	23.6	1		0950	119	48.	34.4	30.5	1		1810	219	30.	11.7	27.2
1		0135	20	6.	.2	23.7	1		0955	120	48.	34.4	30.5	1		1815	220	30.	11.5	27.1
1		0140	21	7.	.2	23.9	1		1000	121	48.	34.4	30.5	1		1820	221	30.	11.3	27.1
1		0145	22	8.	.3	24.0	1		1005	122	48.	34.3	30.5	1		1825	222	29.	11.1	27.0
1		0150	23	9.	.3	24.1	1		1010	123	48.	34.3	30.5	1		1830	223	29.	10.9	27.0
1		0155	24	9.	.4	24.1	1		1015	124	48.	34.3	30.5	1		1835	224	29.	10.7	27.0
1		0200	25	10.	.5	24.2	1		1020	125	48.	34.2	30.5	1		1840	225	29.	10.5	26.9
1		0205	26	10.	.5	24.2	1		1025	126	48.	34.1	30.4	1		1845	226	28.	10.3	26.9
1		0210	27	11.	.6	24.3	1		1030	127	48.	34.0	30.4	1		1850	227	28.	10.1	26.8
1		0215	28	11.	.7	24.3	1		1035	128	47.	34.0	30.4	1		1855	228	28.	9.9	26.8
1		0220	29	12.	.7	24.4	1		1040	129	47.	33.9	30.4	1		1900	229	28.	9.7	26.8
1		0225	30	12.	.8	24.5	1		1045	130	47.	33.8	30.4	1		1905	230	27.	9.6	26.7
1		0230	31	13.	.9	24.6	1		1050	131	47.	33.7	30.4	1		1910	231	27.	9.4	26.7
1		0235	32	14.	1.1	24.7	1		1055	132	47.	33.6	30.4	1		1915	232	27.	9.2	26.6
1		0240	33	15.	1.2	24.8	1		1100	133	47.	33.4	30.4	1		1920	233	27.	9.0	26.6
1		0245	34	16.	1.3	24.9	1		1105	134	47.	33.3	30.4	1		1925	234	26.	8.8	26.6
1		0250	35	16.	1.4	25.0	1		1110	135	47.	33.2	30.4	1		1930	235	26.	8.6	26.5
1		0255	36	17.	1.6	25.0	1		1115	136	47.	33.0	30.3	1		1935	236	26.	8.5	26.5
1		0300	37	17.	1.7	25.1	1		1120	137	47.	32.9	30.3	1		1940	237	26.	8.3	26.4
1		0305	38	17.	1.8	25.1	1		1125	138	47.	32.7	30.3	1		1945	238	25.	8.1	26.4
1		0310	39	17.	2.0	25.1	1		1130	139	47.	32.6	30.3	1		1950	239	25.	7.9	26.4
1		0315	40	18.	2.3	25.2	1		1135	140	47.	32.4	30.3	1		1955	240	25.	7.8	26.3
1		0320	41	18.	2.7	25.3	1		1140	141	47.	32.2	30.3	1		2000	241	25.	7.6	26.3
1		0325	42	19.	3.3	25.4	1		1145	142	47.	32.1	30.2	1		2005	242	24.	7.4	26.3
1		0330	43	20.	4.3	25.6	1		1150	143	47.	31.9	30.2	1		2010	243	24.	7.2	26.2
1		0335	44	22.	5.7	25.9	1		1155	144	47.	31.7	30.2	1		2015	244	24.	7.1	26.2
1		0340	45	24.	7.4	26.3	1		1200	145	47.	31.5	30.2	1		2020	245	24.	6.9	26.2
1		0345	46	27.	9.3	26.7	1		1205	146	46.	31.2	30.2	1		2025	246	24.	6.8	26.1
1		0350	47	29.	11.2	27.0	1		1210	147	46.	31.0	30.1	1		2030	247	23.	6.6	26.1
1		0355	48	32.	12.9	27.4	1		1215	148	46.	30.8	30.1	1		2035	248	23.	6.4	26.1
1		0400	49	34.	14.4	27.7	1		1220	149	46.	30.6	30.1	1		2040	249	23.	6.3	26.0
1		0405	50	35.	15.7	28.0	1		1225	150	46.	30.3	30.1	1		2045	250	23.	6.1	26.0
1		0410	51	37.	16.8	28.2	1		1230	151	46.	30.1	30.0	1		2050	251	23.	6.0	26.0
1		0415	52	38.	17.8	28.4	1		1235	152	46.	29.8	30.0	1		2055	252	22.	5.8	25.9
1		0420	53	39.	18.6	28.6	1		1240	153	46.	29.5	30.0	1		2100	253	22.	5.7	25.9
1		0425	54	40.	19.3	28.8	1		1245	154	46.	29.3	30.0	1		2105	254	22.	5.5	25.9
1		0430	55	41.	20.0	28.9	1		1250	155	46.	29.0	29.9	1		2110	255	22.	5.3	25.8
1		0435	56	42.	20.6	29.0	1		1255	156	45.	28.7	29.9	1		2115	256	22.	5.2	25.8
1		0440	57	42.	21.3	29.1	1		1300	157	45.	28.4	29.9	1		2120	257	21.	5.1	25.8
1		0445	58	42.	22.0	29.2	1		1305	158	45.	28.1	29.8	1		2125	258	21.	4.9	25.7
1		0450	59	43.	22.7	29.2	1		1310	159	45.	27.8	29.8	1		2130	259	21.	4.8	25.7
1		0455	60	43.	23.4	29.3	1		1315	160	45.	27.5	29.8	1		2135	260	21.	4.6	25.7
1		0500	61	43.	24.1	29.4	1		1320	161	45.	27.2	29.7	1		2140	261	21.	4.5	25.6
1		0505	62	44.	24.8	29.5	1		1325	162	45.	26.9	29.7	1		2145	262	20.	4.3	25.6
1		0510	63	44.	25.4	29.5	1		1330	163	45.	26.5	29.7	1		2150	263	20.	4.2	25.6
1		0515	64	44.	26.0	29.6	1		1335	164	44.	26.2	29.6	1		2155	264	20.	4.1	25.6
1		0520	65	44.	26.5	29.7	1		1340	165	44.	25.9	29.6	1		2200	265	20.	3.9	25.5
1		0525	66	45.	26.9	29.7	1		1345	166	44.	25.6	29.6	1		2205	266	20.	3.8	25.5
1		0530	67	45.	27.3	29.8	1		1350	167	44.	25.3	29.5	1		2210	267	19.	3.6	25.5
1		0535	68	45.	27.7	29.8	1		1355	168	44.	25.0	29.5	1		2215	268	19.	3.5	25.4
1		0540	69	45.	28.1	29.8	1		1400	169	44.	24.7	29.5	1		2220	269	19.	3.4	25.4
1		0545	70	45.	28.4	29.9	1		1405	170	44.	24.4	29.4	1		2225	270	19.	3.2	25.4
1		0550	71	45.	28.7	29.9	1		1410	171	43.	24.1	29.4	1		2230	271	19.	3.1	25.4
1		0555	72	46.	29.0	29.9	1		1415	172	43.	23.8	29.4	1		2235	272	19.	3.0	25.3
1		0600	73	46.	29.3	30.0	1		1420	173	43.	23.5	29.3	1		2240	273	18.	2.9	25.3
1		0605	74	46.	29.5	30.0	1		1425	174	43.	23.2	29.3	1		2245	274	18.	2.7	25.3
1		0610	75	46.	29.8	30.0	1		1430	175	43.	22.9	29.3	1		2250	275	18.	2.6	25.2
1		0615	76	46.	30.0	30.0	1		1435	176	43.	22.6	29.2	1		2255	276	18.	2.5	25.2
1		0620	77	46.	30.3	30.1	1		1440	177	43.	22.3	29.2	1		2300	277	18.	2.4	25.2
1		0625	78	46.	30.5	30.1	1		1445	178	42.	22.1	29.2	1		2305	278	18.	2.2	25.2
1		0630	79	46.	30.7	30.1	1		1450	179	42.	21.8	29.1	1		2310	279	17.	2.1	25.1
1		0635	80	46.	30.9	30.1	1		1455	180	42.	21.5	29.1	1		2315	280	17.	2.0	25.1
1		0640	81	46.	31.1	30.1	1		1500	181	42.	21.2	29.1	1		2320	281	17.	1.9	25.1
1		0645	82	47.	31.3	30.2	1		1505	182	42.	20.9	29.1	1		2325	282	17.	1.8	25.1
1		0650	83	47.	31.5	30.2	1		1510	183	42.	20.6	29.0	1		2330	283	17.	1.6	25.0
1		0655	84	47.	31.6	30.2	1		1515	184	42.	20.3	29.0	1		2335	284	17.	1.5	25.0
1		0700	85	47.	31.8	30.2	1		1520	185	41.	20.0	28.9	1		2340	285	16.	1.4	25.0
1		0705	86	47.	32.0	30.2	1		1525	186	41.	19.7	28.9	1		2345	286	16.	1.3	24.9
1		0710	87	47.	32.1	30.3	1		1530	187	40.	19.5	28.8	1		2350	287	15.	1.2	24.8

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0715	88	47.	32.3	30.3 *	1		1535	188	40.	19.2	28.7 *	1		2355	288	14.	1.1	24.7
1		0720	89	47.	32.4	30.3 *	1		1540	189	40.	18.9	28.7 *	2		0000	289	14.	1.0	24.6
1		0725	90	47.	32.6	30.3 *	1		1545	190	39.	18.6	28.6 *	2		0005	290	13.	.9	24.6
1		0730	91	47.	32.7	30.3 *	1		1550	191	39.	18.4	28.6 *	2		0010	291	12.	.8	24.5
1		0735	92	47.	32.9	30.3 *	1		1555	192	39.	18.1	28.5 *	2		0015	292	12.	.7	24.4
1		0740	93	47.	33.0	30.3 *	1		1600	193	38.	17.8	28.5 *	2		0020	293	11.	.7	24.3
1		0745	94	47.	33.1	30.3 *	1		1605	194	38.	17.6	28.4 *	2		0025	294	11.	.6	24.3
1		0750	95	47.	33.2	30.4 *	1		1610	195	38.	17.3	28.3 *	2		0030	295	10.	.5	24.2
1		0755	96	47.	33.3	30.4 *	1		1615	196	37.	17.1	28.3 *	2		0035	296	10.	.4	24.2
1		0800	97	47.	33.4	30.4 *	1		1620	197	37.	16.8	28.2 *	2		0040	297	9.	.4	24.1
1		0805	98	47.	33.5	30.4 *	1		1625	198	37.	16.6	28.2 *	2		0045	298	9.	.3	24.1
1		0810	99	47.	33.6	30.4 *	1		1630	199	36.	16.3	28.1 *	2		0050	299	8.	.3	24.0
1		0815	100	47.	33.7	30.4 *	1		1635	200	36.	16.1	28.1 *	2		0055	300	7.	.2	23.8

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)	(CFS)				
48.	9.58		47.	33.	32.	32.
		(INCHES)	.406	1.144	1.146	1.146
		(AC-FT)	23.	66.	66.	66.

PEAK STORAGE	TIME		MAXIMUM AVERAGE STORAGE			
			6-HR	24-HR	72-HR	24.92-HR
(AC-FT)	(HR)					
34.	9.67		33.	17.	17.	17.

PEAK STAGE	TIME		MAXIMUM AVERAGE STAGE			
			6-HR	24-HR	72-HR	24.92-HR
(FEET)	(HR)					
30.48	9.67		30.35	27.84	27.67	27.67

CUMULATIVE AREA = 1.08 SQ MI

HYDROGRAPH AT STATION DET2
PLAN 1, RATIO = .98

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	23.0 *	1		0820	101	47.	32.8	30.3 *	1		1640	201	34.	14.6	27.8
1		0005	2	0.	.0	23.0 *	1		0825	102	47.	32.9	30.3 *	1		1645	202	34.	14.4	27.7
1		0010	3	0.	.0	23.0 *	1		0830	103	47.	32.9	30.3 *	1		1650	203	33.	14.1	27.7
1		0015	4	0.	.0	23.0 *	1		0835	104	47.	33.0	30.3 *	1		1655	204	33.	13.9	27.6
1		0020	5	0.	.0	23.0 *	1		0840	105	47.	33.0	30.3 *	1		1700	205	33.	13.7	27.6
1		0025	6	0.	.0	23.1 *	1		0845	106	47.	33.1	30.3 *	1		1705	206	33.	13.5	27.5
1		0030	7	1.	.0	23.1 *	1		0850	107	47.	33.1	30.4 *	1		1710	207	32.	13.2	27.5
1		0035	8	2.	.1	23.2 *	1		0855	108	47.	33.2	30.4 *	1		1715	208	32.	13.0	27.4
1		0040	9	3.	.1	23.3 *	1		0900	109	47.	33.2	30.4 *	1		1720	209	32.	12.8	27.4
1		0045	10	3.	.1	23.4 *	1		0905	110	47.	33.2	30.4 *	1		1725	210	31.	12.6	27.4
1		0050	11	4.	.1	23.4 *	1		0910	111	47.	33.3	30.4 *	1		1730	211	31.	12.4	27.3
1		0055	12	4.	.1	23.4 *	1		0915	112	47.	33.3	30.4 *	1		1735	212	31.	12.2	27.3
1		0100	13	4.	.1	23.4 *	1		0920	113	47.	33.3	30.4 *	1		1740	213	31.	11.9	27.2
1		0105	14	4.	.1	23.4 *	1		0925	114	47.	33.3	30.4 *	1		1745	214	30.	11.7	27.2
1		0110	15	3.	.1	23.4 *	1		0930	115	47.	33.3	30.4 *	1		1750	215	30.	11.5	27.1
1		0115	16	3.	.1	23.4 *	1		0935	116	47.	33.3	30.4 *	1		1755	216	30.	11.3	27.1
1		0120	17	4.	.1	23.4 *	1		0940	117	47.	33.3	30.4 *	1		1800	217	29.	11.1	27.0
1		0125	18	4.	.1	23.5 *	1		0945	118	47.	33.3	30.4 *	1		1805	218	29.	10.9	27.0
1		0130	19	5.	.1	23.5 *	1		0950	119	47.	33.3	30.4 *	1		1810	219	29.	10.7	27.0
1		0135	20	6.	.2	23.7 *	1		0955	120	47.	33.3	30.4 *	1		1815	220	29.	10.5	26.9
1		0140	21	7.	.2	23.8 *	1		1000	121	47.	33.2	30.4 *	1		1820	221	28.	10.3	26.9
1		0145	22	8.	.3	24.0 *	1		1005	122	47.	33.2	30.4 *	1		1825	222	28.	10.1	26.8
1		0150	23	9.	.3	24.1 *	1		1010	123	47.	33.1	30.4 *	1		1830	223	28.	9.9	26.8
1		0155	24	9.	.4	24.1 *	1		1015	124	47.	33.1	30.3 *	1		1835	224	28.	9.7	26.8
1		0200	25	10.	.4	24.2 *	1		1020	125	47.	33.0	30.3 *	1		1840	225	27.	9.6	26.7
1		0205	26	10.	.5	24.2 *	1		1025	126	47.	32.9	30.3 *	1		1845	226	27.	9.4	26.7
1		0210	27	10.	.5	24.2 *	1		1030	127	47.	32.8	30.3 *	1		1850	227	27.	9.2	26.6
1		0215	28	11.	.6	24.3 *	1		1035	128	47.	32.7	30.3 *	1		1855	228	27.	9.0	26.6
1		0220	29	11.	.7	24.4 *	1		1040	129	47.	32.6	30.3 *	1		1900	229	26.	8.8	26.6
1		0225	30	12.	.8	24.4 *	1		1045	130	47.	32.5	30.3 *	1		1905	230	26.	8.6	26.5
1		0230	31	13.	.9	24.5 *	1		1050	131	47.	32.4	30.3 *	1		1910	231	26.	8.5	26.5
1		0235	32	13.	1.0	24.6 *	1		1055	132	47.	32.3	30.3 *	1		1915	232	26.	8.3	26.4
1		0240	33	14.	1.1	24.7 *	1		1100	133	47.	32.1	30.3 *	1		1920	233	25.	8.1	26.4
1		0245	34	15.	1.2	24.8 *	1		1105	134	47.	32.0	30.2 *	1		1925	234	25.	7.9	26.4
1		0250	35	16.	1.3	24.9 *	1		1110	135	47.	31.9	30.2 *	1		1930	235	25.	7.8	26.3
1		0255	36	17.	1.5	25.0 *	1		1115	136	47.	31.7	30.2 *	1		1935	236	25.	7.6	26.3
1		0300	37	17.	1.6	25.0 *	1		1120	137	47.	31.6	30.2 *	1		1940	237	25.	7.4	26.3
1		0305	38	17.	1.7	25.1 *	1		1125	138	47.	31.4	30.2 *	1		1945	238	24.	7.3	26.2
1		0310	39	17.	1.9	25.1 *	1		1130	139	46.	31.2	30.2 *	1		1950	239	24.	7.1	26.2
1		0315	40	17.	2.1	25.1 *	1		1135	140	46.	31.1	30.1 *	1		1955	240	24.	6.9	26.2
1		0320	41	18.	2.5	25.2 *	1		1140	141	46.	30.9	30.1 *	1		2000	241	24.	6.8	26.1
1		0325	42	19.	3.1	25.4 *	1		1145	142	46.	30.7	30.1 *	1		2005	242	23.	6.6	26.1
1		0330	43	20.	4.1	25.6 *	1		1150	143	46.	30.5	30.1 *	1		2010	243	23.	6.4	26.1
1		0335	44	22.	5.4	25.8 *	1		1155	144	46.	30.3	30.1 *	1		2015	244	23.	6.3	26.0
1		0340	45	24.	7.1	26.2 *	1		1200	145	46.	30.0	30.0 *	1		2020	245	23.	6.1	26.0
1		0345	46	27.	9.0	26.6 *	1		1205	146	46.	29.8	30.0 *	1		2025	246	23.	6.0	26.0
1		0350	47	29.	10.8	27.0 *	1		1210	147	46.	29.6	30.0 *	1		2030	247	22.	5.8	25.9
1		0355	48	31.	12.4	27.3 *	1		1215	148	46.	29.4	30.0 *	1		2035	248	22.	5.7	25.9
1		0400	49	33.	13.9	27.6 *	1		1220	149	46.	29.1	29.9 *	1		2040	249	22.	5.5	25.9
1		0405	50	35.	15.2	27.9 *	1		1225	150	46.	28.9	29.9 *	1		2045	250	22.	5.4	25.8
1		0410	51	36.	16.3	28.1 *	1		1230	151	45.	28.6	29.9 *	1		2050	251	22.	5.2	25.8
1		0415	52	38.	17.2	28.3 *	1		1235	152	45.	28.3	29.9 *	1		2055	252	21.	5.1	25.8
1		0420	53	39.	18.0	28.5 *	1		1240	153	45.	28.0	29.8 *	1		2100	253	21.	4.9	25.7
1		0425	54	40.	18.7	28.7 *	1		1245	154	45.	27.8	29.8 *	1		2105	254	21.	4.8	25.7
1		0430	55	40.	19.4	28.8 *	1		1250	155	45.	27.5	29.8 *	1		2110	255	21.	4.6	25.7
1		0435	56	41.	20.0	28.9 *	1		1255	156	45.	27.2	29.7 *	1		2115	256	21.	4.5	25.6
1		0440	57	42.	20.7	29.0 *	1		1300	157	45.	26.9	29.7 *	1		2120	257	20.	4.3	25.6
1		0445	58	42.	21.3	29.1 *	1		1305	158	45.	26.6	29.7 *	1		2125	258	20.	4.2	25.6
1		0450	59	42.	22.0	29.2 *	1		1310	159	44.	26.2	29.6 *	1		2130	259	20.	4.1	25.6
1		0455	60	43.	22.7	29.2 *	1		1315	160	44.	25.9	29.6 *	1		2135	260	20.	3.9	25.5
1		0500	61	43.	23.4	29.3 *	1		1320	161	44.	25.6	29.6 *	1		2140	261	20.	3.8	25.5
1		0505	62	43.	24.1	29.4 *	1		1325	162	44.	25.3	29.5 *	1		2145	262	20.	3.6	25.5
1		0510	63	44.	24.7	29.5 *	1		1330	163	44.	25.0	29.5 *	1		2150	263	19.	3.5	25.4
1		0515	64	44.	25.2	29.5 *	1		1335	164	44.	24.7	29.5 *	1		2155	264	19.	3.4	25.4
1		0520	65	44.	25.7	29.6 *	1		1340	165	44.	24.4	29.4 *	1		2200	265	19.	3.2	25.4
1		0525	66	44.	26.2	29.6 *	1		1345	166	43.	24.1	29.4 *	1		2205	266	19.	3.1	25.4
1		0530	67	45.	26.6	29.7 *	1		1350	167	43.	23.8	29.4 *	1		2210	267	19.	3.0	25.3
1		0535	68	45.	26.9	29.7 *	1		1355	168	43.	23.5	29.3 *	1		2215	268	18.	2.9	25.3
1		0540	69	45.	27.3	29.7 *	1		1400	169	43.	23.2	29.3 *	1		2220	269	18.	2.7	25.3
1		0545	70	45.	27.6	29.8 *	1		1405	170	43.	22.9	29.3 *	1		2225	270	18.	2.6	25.2
1		0550	71	45.	27.9	29.8 *	1		1410	171	43.	22.6	29.2 *	1		2230	271	18.	2.5	25.2
1		0555	72	45.	28.2	29.8 *	1		1415	172	43.	22.4	29.2 *	1		2235	272	18.	2.4	25.2
1		0600	73	45.	28.4	29.9 *	1		1420	173	42.	22.1	29.2 *	1		2240	273	18.	2.2	25.2
1		0605	74	45.	28.7	29.9 *	1		1425	174	42.	21.8	29.1 *	1		2245	274	17.	2.1	25.1
1		0610	75	46.	29.0	29.9 *	1		1430	175	42.	21.5	29.1 *	1		2250	275	17.	2.0	25.1
1		0615	76	46.	29.2	30.0 *	1		1435	176	42.	21.2	29.1 *	1		2255	276	17.	1.9	25.1
1		0620	77	46.	29.4	30.0 *	1		1440	177	42.	20.9	29.1 *	1		2300	277	17.	1.8	25.1
1		0625	78	46.	29.6	30.0 *	1		1445	178	42.	20.6	29.0 *	1		2305	278	17.	1.6	25.0
1		0630	79	46.	29.8	30.0 *	1		1450	179	42.	20.3	29.0 *	1		2310	279	17.	1.5	25.0
1		0635	80	46.	30.0	30.0 *	1		1455	180	41.	20.0	28.9 *	1		2315	280	16.	1.4	25.0
1		0640	81	46.	30.2	30.1 *	1		1500	181	41.	19.8	28.9 *	1		2320	281	16.	1.3	24.9
1		0645	82	46.	30.4	30.1 *	1		1505	182	40.	19.5	28.8 *	1		2325	282	15.	1.2	24.8
1		0650	83	46.	30.6	30.1 *	1		1510	183	40.	19.2	28.7 *	1		2330	283	14.	1.1	24.7
1		0655	84	46.	30.8	30.1 *	1		1515	184	40.	18.9	28.7 *	1		2335	284	14.	1.0	24.6
1		0700	85	46.	30.9	30.1 *	1		1520	185	39.	18.6	28.6 *	1		2340	285	13.	.9	24.6
1		0705	86	46.	31.1	30.1 *	1		1525	186	39.	18.4	28.6 *	1		2345	286	12.	.8	24.5
1		0710	87	46.	31.2	30.2 *	1		1530	187	39.	18.1	28.5 *	1		2350	287	12.	.7	24.4
1		0715	88	47.	31.4	30.2 *	1		1535	188	38.	17.8	28.5 *	1		2355	288	11.	.7	24.3
1		0720	89	47.	31.5	30.2 *	1		1540	189	38.	17.6	28.4 *	2		0000	289	11.	.6	24.3
1		0725	90	47.	31.7	30.2 *	1		1545	190	38.	17.3	28.4 *	2		0005	290	10.	.5	24.2
1		0730	91	47.	31.8	30.2 *	1		1550	191	37.	17.1	28.3 *	2		0010	291	10.	.5	24.2

1	0735	92	47.	31.9	30.2	1	1555	192	37.	16.8	28.2	2	0015	292	9.	.4	24.1
1	0740	93	47.	32.0	30.2	1	1600	193	37.	16.6	28.2	2	0020	293	9.	.3	24.1
1	0745	94	47.	32.2	30.3	1	1605	194	36.	16.3	28.1	2	0025	294	8.	.3	24.0
1	0750	95	47.	32.3	30.3	1	1610	195	36.	16.1	28.1	2	0030	295	7.	.2	23.8
1	0755	96	47.	32.4	30.3	1	1615	196	36.	15.8	28.0	2	0035	296	6.	.2	23.7
1	0800	97	47.	32.5	30.3	1	1620	197	35.	15.6	28.0	2	0040	297	4.	.1	23.5
1	0805	98	47.	32.6	30.3	1	1625	198	35.	15.3	27.9	2	0045	298	4.	.1	23.4
1	0810	99	47.	32.6	30.3	1	1630	199	35.	15.1	27.9	2	0050	299	3.	.1	23.3
1	0815	100	47.	32.7	30.3	1	1635	200	34.	14.8	27.8	2	0055	300	2.	.1	23.3

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)	(CFS)				
+ 47.	9.50		47.	32.	31.	31.
		(INCHES)	.403	1.113	1.115	1.115
		(AC-FT)	23.	64.	64.	64.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
+ 33.	9.58	32.	17.	16.	16.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
+ 30.37	9.58	30.24	27.68	27.52	27.52

CUMULATIVE AREA = 1.08 SQ MI

HYDROGRAPH AT STATION DET2
PLAN 1, RATIO = .97

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000	1	0.	.0	23.0	1	0820	101	47.	32.3	30.3	1	1640	201	33.	14.0	27.7			
1	0005	2	0.	.0	23.0	1	0825	102	47.	32.4	30.3	1	1645	202	33.	13.8	27.6			
1	0010	3	0.	.0	23.0	1	0830	103	47.	32.4	30.3	1	1650	203	33.	13.6	27.6			
1	0015	4	0.	.0	23.0	1	0835	104	47.	32.5	30.3	1	1655	204	32.	13.4	27.5			
1	0020	5	0.	.0	23.0	1	0840	105	47.	32.5	30.3	1	1700	205	32.	13.1	27.5			
1	0025	6	0.	.0	23.1	1	0845	106	47.	32.6	30.3	1	1705	206	32.	12.9	27.4			
1	0030	7	1.	.0	23.1	1	0850	107	47.	32.6	30.3	1	1710	207	31.	12.7	27.4			
1	0035	8	2.	.1	23.2	1	0855	108	47.	32.6	30.3	1	1715	208	31.	12.5	27.3			
1	0040	9	2.	.1	23.3	1	0900	109	47.	32.7	30.3	1	1720	209	31.	12.3	27.3			
1	0045	10	3.	.1	23.4	1	0905	110	47.	32.7	30.3	1	1725	210	31.	12.1	27.2			
1	0050	11	3.	.1	23.4	1	0910	111	47.	32.7	30.3	1	1730	211	30.	11.8	27.2			
1	0055	12	3.	.1	23.4	1	0915	112	47.	32.7	30.3	1	1735	212	30.	11.6	27.2			
1	0100	13	3.	.1	23.4	1	0920	113	47.	32.8	30.3	1	1740	213	30.	11.4	27.1			
1	0105	14	3.	.1	23.4	1	0925	114	47.	32.8	30.3	1	1745	214	30.	11.2	27.1			
1	0110	15	3.	.1	23.4	1	0930	115	47.	32.8	30.3	1	1750	215	29.	11.0	27.0			
1	0115	16	3.	.1	23.4	1	0935	116	47.	32.8	30.3	1	1755	216	29.	10.8	27.0			
1	0120	17	3.	.1	23.4	1	0940	117	47.	32.8	30.3	1	1800	217	29.	10.6	26.9			
1	0125	18	4.	.1	23.4	1	0945	118	47.	32.7	30.3	1	1805	218	28.	10.4	26.9			
1	0130	19	4.	.1	23.5	1	0950	119	47.	32.7	30.3	1	1810	219	28.	10.2	26.9			
1	0135	20	5.	.2	23.6	1	0955	120	47.	32.7	30.3	1	1815	220	28.	10.0	26.8			
1	0140	21	7.	.2	23.8	1	1000	121	47.	32.6	30.3	1	1820	221	28.	9.8	26.8			
1	0145	22	8.	.3	24.0	1	1005	122	47.	32.6	30.3	1	1825	222	27.	9.7	26.7			
1	0150	23	9.	.3	24.0	1	1010	123	47.	32.5	30.3	1	1830	223	27.	9.5	26.7			
1	0155	24	9.	.4	24.1	1	1015	124	47.	32.5	30.3	1	1835	224	27.	9.3	26.7			
1	0200	25	9.	.4	24.1	1	1020	125	47.	32.4	30.3	1	1840	225	27.	9.1	26.6			
1	0205	26	10.	.5	24.2	1	1025	126	47.	32.3	30.3	1	1845	226	26.	8.9	26.6			
1	0210	27	10.	.5	24.2	1	1030	127	47.	32.2	30.3	1	1850	227	26.	8.7	26.5			
1	0215	28	11.	.6	24.3	1	1035	128	47.	32.1	30.2	1	1855	228	26.	8.5	26.5			
1	0220	29	11.	.6	24.3	1	1040	129	47.	32.0	30.2	1	1900	229	26.	8.4	26.5			
1	0225	30	12.	.7	24.4	1	1045	130	47.	31.9	30.2	1	1905	230	26.	8.2	26.4			
1	0230	31	12.	.8	24.5	1	1050	131	47.	31.8	30.2	1	1910	231	25.	8.0	26.4			
1	0235	32	13.	1.0	24.6	1	1055	132	47.	31.6	30.2	1	1915	232	25.	7.8	26.4			
1	0240	33	14.	1.1	24.7	1	1100	133	47.	31.5	30.2	1	1920	233	25.	7.7	26.3			
1	0245	34	15.	1.2	24.8	1	1105	134	47.	31.4	30.2	1	1925	234	25.	7.5	26.3			
1	0250	35	16.	1.3	24.9	1	1110	135	46.	31.2	30.2	1	1930	235	24.	7.3	26.2			
1	0255	36	16.	1.4	25.0	1	1115	136	46.	31.1	30.1	1	1935	236	24.	7.2	26.2			
1	0300	37	17.	1.5	25.0	1	1120	137	46.	30.9	30.1	1	1940	237	24.	7.0	26.2			
1	0305	38	17.	1.7	25.0	1	1125	138	46.	30.7	30.1	1	1945	238	24.	6.8	26.1			
1	0310	39	17.	1.8	25.1	1	1130	139	46.	30.6	30.1	1	1950	239	24.	6.7	26.1			
1	0315	40	17.	2.1	25.1	1	1135	140	46.	30.4	30.1	1	1955	240	23.	6.5	26.1			
1	0320	41	18.	2.5	25.2	1	1140	141	46.	30.2	30.1	1	2000	241	23.	6.4	26.0			
1	0325	42	19.	3.1	25.3	1	1145	142	46.	30.0	30.0	1	2005	242	23.	6.2	26.0			
1	0330	43	20.	4.0	25.5	1	1150	143	46.	29.8	30.0	1	2010	243	23.	6.0	26.0			
1	0335	44	22.	5.3	25.8	1	1155	144	46.	29.6	30.0	1	2015	244	22.	5.9	25.9			
1	0340	45	24.	7.0	26.2	1	1200	145	46.	29.3	30.0	1	2020	245	22.	5.7	25.9			
1	0345	46	26.	8.8	26.5	1	1205	146	46.	29.1	29.9	1	2025	246	22.	5.6	25.9			
1	0350	47	29.	10.6	26.9	1	1210	147	46.	28.9	29.9	1	2030	247	22.	5.4	25.8			
1	0355	48	31.	12.2	27.3	1	1215	148	45.	28.6	29.9	1	2035	248	22.	5.3	25.8			
1	0400	49	33.	13.7	27.6	1	1220	149	45.	28.4	29.9	1	2040	249	21.	5.1	25.8			
1	0405	50	34.	15.0	27.9	1	1225	150	45.	28.1	29.8	1	2045	250	21.	5.0	25.7			
1	0410	51	36.	16.0	28.1	1	1230	151	45.	27.8	29.8	1	2050	251	21.	4.8	25.7			
1	0415	52	37.	17.0	28.3	1	1235	152	45.	27.6	29.8	1	2055	252	21.	4.7	25.7			
1	0420	53	38.	17.8	28.4	1	1240	153	45.	27.3	29.7	1	2100	253	21.	4.5	25.7			
1	0425	54	39.	18.5	28.6	1	1245	154	45.	27.0	29.7	1	2105	254	21.	4.4	25.6			
1	0430	55	40.	19.1	28.7	1	1250	155	45.	26.7	29.7	1	2110	255	20.	4.3	25.6			
1	0435	56	41.	19.7	28.9	1	1255	156	44.	26.4	29.7	1	2115	256	20.	4.1	25.6			
1	0440	57	42.	20.4	29.0	1	1300	157	44.	26.1	29.6	1	2120	257	20.	4.0	25.5			
1	0445	58	42.	21.0	29.1	1	1305	158	44.	25.8	29.6	1	2125	258	20.	3.8	25.5			
1	0450	59	42.	21.7	29.1	1	1310	159	44.	25.5	29.6	1	2130	259	20.	3.7	25.5			
1	0455	60	43.	22.4	29.2	1	1315	160	44.	25.2	29.5	1	2135	260	19.	3.6	25.5			
1	0500	61	43.	23.0	29.3	1	1320	161	44.	24.9	29.5	1	2140	261	19.	3.4	25.4			
1	0505	62	43.	23.7	29.4	1	1325	162	44.	24.6	29.5	1	2145	262	19.	3.3	25.4			
1	0510	63	43.	24.3	29.4	1	1330	163	43.	24.3	29.4	1	2150	263	19.	3.2	25.4			
1	0515	64	44.	24.9	29.5	1	1335	164	43.	24.0	29.4	1	2155	264	19.	3.1	25.3			
1	0520	65	44.	25.4	29.5	1	1340	165	43.	23.7	29.4	1	2200	265	19.	2.9	25.3			
1	0525	66	44.	25.8	29.6	1	1345	166	43.	23.4	29.3	1	2205	266	18.	2.8	25.3			
1	0530	67	44.	26.2	29.6	1	1350	167	43.	23.1	29.3	1	2210	267	18.	2.7	25.3			
1	0535	68	45.	26.5	29.7	1	1355	168	43.	22.8	29.3	1	2215	268	18.	2.5	25.2			
1	0540	69	45.	26.9	29.7	1	1400	169	43.	22.5	29.2	1	2220	269	18.	2.4	25.2			
1	0545	70	45.	27.2	29.7	1	1405	170	43.	22.2	29.2	1	2225	270	18.	2.3	25.2			
1	0550	71	45.	27.5	29.8	1	1410	171	42.	21.9	29.2	1	2230	271	18.	2.2	25.2			
1	0555	72	45.	27.8	29.8	1	1415	172	42.	21.6	29.1	1	2235	272	17.	2.1	25.1			
1	0600	73	45.	28.0	29.8	1	1420	173	42.	21.3	29.1	1	2240	273	17.	1.9	25.1			
1	0605	74	45.	28.3	29.9	1	1425	174	42.	21.0	29.1	1	2245	274	17.	1.8	25.1			
1	0610	75	45.	28.5	29.9	1	1430	175	42.	20.8	29.0	1	2250	275	17.	1.7	25.1			
1	0615	76	46.	28.8	29.9	1	1435	176	42.	20.5	29.0	1	2255	276	17.	1.6	25.0			
1	0620	77	46.	29.0	29.9	1	1440	177	41.	20.2	29.0	1	2300	277	17.	1.5	25.0			
1	0625	78	46.	29.2	30.0	1	1445	178	41.	19.9	28.9	1	2305	278	16.	1.4	24.9			
1	0630	79	46.	29.4	30.0	1	1450	179	41.	19.6	28.8	1	2310	279	15.	1.3	24.8			
1	0635	80	46.	29.6	30.0	1	1455	180	40.	19.3	28.8	1	2315	280	15.	1.2	24.8			
1	0640	81	46.	29.8	30.0	1	1500	181	40.	19.1	28.7	1	2320	281	14.	1.1	24.7			
1	0645	82	46.	30.0	30.0	1	1505	182	40.	18.8	28.7	1	2325	282	13.	1.0	24.6			
1	0650	83	46.	30.1	30.1	1	1510	183	39.	18.5	28.6	1	2330	283	13.	.9	24.5			
1	0655	84	46.	30.3	30.1	1	1515	184	39.	18.2	28.5	1	2335	284	12.	.8	24.5			
1	0700	85	46.	30.5	30.1	1	1520	185	38.	18.0	28.5	1	2340	285	11.	.7	24.4			
1	0705	86	46.	30.6	30.1	1	1525	186	38.	17.7	28.4	1	2345	286	11.	.6	24.3			
1	0710	87	46.	30.8	30.1	1	1530	187	38.	17.5	28.4	1	2350	287	10.	.6	24.3			
1	0715	88	46.	30.9	30.1	1	1535	188	37.	17.2	28.3	1	2355	288	10.	.5	24.2			
1	0720	89	46.	31.1	30.1	1	1540	189	37.	16.9	28.3	2	0000	289	9.	.4	24.1			
1	0725	90	46.	31.2	30.2	1	1545	190	37.	16.7	28.2	2	0005	290	9.	.4	24.1			
1	0730	91	47.	31.3	30.2	1	1550	191	36.	16.4	28.2	2	0010	291	9.	.3	24.0			
1	0735	92	47.	31.5	30.2	1	1555	192	36.	16.2	28.1	2	0015	292	8.	.2	23.9			
1	0740	93	47.	31.6	30.2	1	1600	193	36.	15.9	28.1	2	0020	293	6.	.2	23.7			
1	0745	94	47.	31.7	30.2	1	1605	194	35.	15.7	28.0	2	0025	294	5.	.2	23.6			
1	0750	95	47.	31.8	30.2	1	1610	195	35.	15.4	28.0	2	0030	295	4.	.1	23.5			

1	0755	96	47.	31.9	30.2	*	1	1615	196	35.	15.2	27.9	*	2	0035	296	3.	.1	23.4
1	0800	97	47.	32.0	30.2	*	1	1620	197	35.	15.0	27.9	*	2	0040	297	3.	.1	23.3
1	0805	98	47.	32.1	30.2	*	1	1625	198	34.	14.7	27.8	*	2	0045	298	2.	.1	23.2
1	0810	99	47.	32.2	30.3	*	1	1630	199	34.	14.5	27.8	*	2	0050	299	2.	.0	23.2
1	0815	100	47.			*		1635	200	34.	14.3	27.7	*	2	0055	300	1.	.0	23.2
						*							*						

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)	(CFS)				
47.	9.50		47.	32.	31.	31.
		(INCHES)	.401	1.097	1.098	1.098
		(AC-FT)	23.	63.	63.	63.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
(AC-FT)	(HR)				
33.	9.50	31.	16.	15.	15.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
(FEET)	(HR)				
30.31	9.50	30.18	27.61	27.44	27.44

CUMULATIVE AREA = 1.08 SQ MI

HYDROGRAPH AT STATION DET2
PLAN 1, RATIO = .93

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	23.0	*	1		0820	101	46.	30.3	30.1	*	1		1640	201	30.	11.8	27.2
1		0005	2	0.	.0	23.0	*	1		0825	102	46.	30.3	30.1	*	1		1645	202	30.	11.6	27.2
1		0010	3	0.	.0	23.0	*	1		0830	103	46.	30.4	30.1	*	1		1650	203	30.	11.4	27.1
1		0015	4	0.	.0	23.0	*	1		0835	104	46.	30.4	30.1	*	1		1655	204	30.	11.2	27.1
1		0020	5	0.	.0	23.0	*	1		0840	105	46.	30.5	30.1	*	1		1700	205	29.	11.0	27.0
1		0025	6	0.	.0	23.0	*	1		0845	106	46.	30.5	30.1	*	1		1705	206	29.	10.8	27.0
1		0030	7	1.	.0	23.1	*	1		0850	107	46.	30.5	30.1	*	1		1710	207	29.	10.6	26.9
1		0035	8	1.	.0	23.2	*	1		0855	108	46.	30.6	30.1	*	1		1715	208	28.	10.4	26.9
1		0040	9	2.	.1	23.3	*	1		0900	109	46.	30.6	30.1	*	1		1720	209	28.	10.2	26.9
1		0045	10	3.	.1	23.3	*	1		0905	110	46.	30.6	30.1	*	1		1725	210	28.	10.0	26.8
1		0050	11	3.	.1	23.3	*	1		0910	111	46.	30.6	30.1	*	1		1730	211	28.	9.8	26.8
1		0055	12	3.	.1	23.3	*	1		0915	112	46.	30.6	30.1	*	1		1735	212	27.	9.7	26.7
1		0100	13	3.	.1	23.3	*	1		0920	113	46.	30.6	30.1	*	1		1740	213	27.	9.5	26.7
1		0105	14	3.	.1	23.3	*	1		0925	114	46.	30.6	30.1	*	1		1745	214	27.	9.3	26.7
1		0110	15	3.	.1	23.3	*	1		0930	115	46.	30.6	30.1	*	1		1750	215	27.	9.1	26.6
1		0115	16	3.	.1	23.3	*	1		0935	116	46.	30.6	30.1	*	1		1755	216	26.	8.9	26.6
1		0120	17	3.	.1	23.3	*	1		0940	117	46.	30.5	30.1	*	1		1800	217	26.	8.7	26.5
1		0125	18	3.	.1	23.4	*	1		0945	118	46.	30.5	30.1	*	1		1805	218	26.	8.5	26.5
1		0130	19	4.	.1	23.4	*	1		0950	119	46.	30.4	30.1	*	1		1810	219	26.	8.4	26.5
1		0135	20	5.	.1	23.5	*	1		0955	120	46.	30.4	30.1	*	1		1815	220	26.	8.2	26.4
1		0140	21	6.	.2	23.7	*	1		1000	121	46.	30.3	30.1	*	1		1820	221	25.	8.0	26.4
1		0145	22	7.	.2	23.9	*	1		1005	122	46.	30.2	30.1	*	1		1825	222	25.	7.8	26.4
1		0150	23	8.	.3	24.0	*	1		1010	123	46.	30.1	30.1	*	1		1830	223	25.	7.7	26.3
1		0155	24	9.	.3	24.1	*	1		1015	124	46.	30.1	30.0	*	1		1835	224	25.	7.5	26.3
1		0200	25	9.	.4	24.1	*	1		1020	125	46.	30.0	30.0	*	1		1840	225	24.	7.3	26.2
1		0205	26	9.	.4	24.1	*	1		1025	126	46.	29.8	30.0	*	1		1845	226	24.	7.2	26.2
1		0210	27	10.	.4	24.2	*	1		1030	127	46.	29.7	30.0	*	1		1850	227	24.	7.0	26.2
1		0215	28	10.	.5	24.2	*	1		1035	128	46.	29.6	30.0	*	1		1855	228	24.	6.8	26.1
1		0220	29	10.	.5	24.2	*	1		1040	129	46.	29.5	30.0	*	1		1900	229	24.	6.7	26.1
1		0225	30	11.	.6	24.3	*	1		1045	130	46.	29.4	30.0	*	1		1905	230	23.	6.5	26.1
1		0230	31	12.	.7	24.4	*	1		1050	131	46.	29.2	30.0	*	1		1910	231	23.	6.4	26.0
1		0235	32	12.	.8	24.5	*	1		1055	132	46.	29.1	29.9	*	1		1915	232	23.	6.2	26.0
1		0240	33	13.	.9	24.6	*	1		1100	133	46.	28.9	29.9	*	1		1920	233	23.	6.0	26.0
1		0245	34	14.	1.0	24.7	*	1		1105	134	46.	28.8	29.9	*	1		1925	234	22.	5.9	25.9
1		0250	35	15.	1.1	24.8	*	1		1110	135	45.	28.6	29.9	*	1		1930	235	22.	5.7	25.9
1		0255	36	15.	1.3	24.8	*	1		1115	136	45.	28.4	29.9	*	1		1935	236	22.	5.6	25.9
1		0300	37	16.	1.4	24.9	*	1		1120	137	45.	28.2	29.9	*	1		1940	237	22.	5.4	25.8
1		0305	38	17.	1.5	25.0	*	1		1125	138	45.	28.0	29.8	*	1		1945	238	22.	5.3	25.8
1		0310	39	17.	1.6	25.0	*	1		1130	139	45.	27.8	29.8	*	1		1950	239	21.	5.1	25.8
1		0315	40	17.	1.8	25.1	*	1		1135	140	45.	27.6	29.8	*	1		1955	240	21.	5.0	25.7
1		0320	41	18.	2.2	25.2	*	1		1140	141	45.	27.4	29.8	*	1		2000	241	21.	4.8	25.7
1		0325	42	18.	2.7	25.3	*	1		1145	142	45.	27.2	29.7	*	1		2005	242	21.	4.7	25.7
1		0330	43	19.	3.6	25.5	*	1		1150	143	45.	27.0	29.7	*	1		2010	243	21.	4.5	25.7
1		0335	44	21.	4.9	25.7	*	1		1155	144	45.	26.7	29.7	*	1		2015	244	21.	4.4	25.6
1		0340	45	23.	6.4	26.0	*	1		1200	145	44.	26.5	29.7	*	1		2020	245	20.	4.3	25.6
1		0345	46	25.	8.1	26.4	*	1		1205	146	44.	26.2	29.6	*	1		2025	246	20.	4.1	25.6
1		0350	47	28.	9.8	26.8	*	1		1210	147	44.	26.0	29.6	*	1		2030	247	20.	4.0	25.5
1		0355	48	30.	11.4	27.1	*	1		1215	148	44.	25.7	29.6	*	1		2035	248	20.	3.8	25.5
1		0400	49	32.	12.7	27.4	*	1		1220	149	44.	25.4	29.5	*	1		2040	249	20.	3.7	25.5
1		0405	50	33.	13.9	27.6	*	1		1225	150	44.	25.2	29.5	*	1		2045	250	19.	3.6	25.5
1		0410	51	35.	15.0	27.9	*	1		1230	151	44.	24.9	29.5	*	1		2050	251	19.	3.4	25.4
1		0415	52	36.	15.9	28.0	*	1		1235	152	44.	24.6	29.5	*	1		2055	252	19.	3.3	25.4
1		0420	53	37.	16.6	28.2	*	1		1240	153	43.	24.3	29.4	*	1		2100	253	19.	3.2	25.4
1		0425	54	38.	17.3	28.3	*	1		1245	154	43.	24.0	29.4	*	1		2105	254	19.	3.1	25.3
1		0430	55	38.	17.9	28.5	*	1		1250	155	43.	23.7	29.4	*	1		2110	255	19.	2.9	25.3
1		0435	56	39.	18.5	28.6	*	1		1255	156	43.	23.4	29.3	*	1		2115	256	18.	2.8	25.3
1		0440	57	40.	19.1	28.7	*	1		1300	157	43.	23.1	29.3	*	1		2120	257	18.	2.7	25.3
1		0445	58	41.	19.7	28.9	*	1		1305	158	43.	22.8	29.3	*	1		2125	258	18.	2.5	25.2
1		0450	59	42.	20.4	29.0	*	1		1310	159	43.	22.5	29.2	*	1		2130	259	18.	2.4	25.2
1		0455	60	42.	21.0	29.1	*	1		1315	160	43.	22.2	29.2	*	1		2135	260	18.	2.3	25.2
1		0500	61	42.	21.7	29.1	*	1		1320	161	42.	21.9	29.2	*	1		2140	261	18.	2.2	25.2
1		0505	62	43.	22.3	29.2	*	1		1325	162	42.	21.6	29.1	*	1		2145	262	17.	2.1	25.1
1		0510	63	43.	22.9	29.3	*	1		1330	163	42.	21.3	29.1	*	1		2150	263	17.	1.9	25.1
1		0515	64	43.	23.4	29.3	*	1		1335	164	42.	21.0	29.1	*	1		2155	264	17.	1.8	25.1
1		0520	65	43.	23.9	29.4	*	1		1340	165	42.	20.7	29.0	*	1		2200	265	17.	1.7	25.1
1		0525	66	43.	24.3	29.4	*	1		1345	166	42.	20.5	29.0	*	1		2205	266	17.	1.6	25.0
1		0530	67	44.	24.7	29.5	*	1		1350	167	41.	20.2	29.0	*	1		2210	267	17.	1.5	25.0
1		0535	68	44.	25.0	29.5	*	1		1355	168	41.	19.9	28.9	*	1		2215	268	16.	1.4	24.9
1		0540	69	44.	25.3	29.5	*	1		1400	169	41.	19.6	28.8	*	1		2220	269	15.	1.3	24.8
1		0545	70	44.	25.6	29.6	*	1		1405	170	40.	19.3	28.8	*	1		2225	270	15.	1.1	24.8
1		0550	71	44.	25.9	29.6	*	1		1410	171	40.	19.1	28.7	*	1		2230	271	14.	1.1	24.7
1		0555	72	44.	26.2	29.6	*	1		1415	172	40.	18.8	28.7	*	1		2235	272	13.	1.0	24.6
1		0600	73	44.	26.4	29.7	*	1		1420	173	39.	18.5	28.6	*	1		2240	273	13.	.9	24.5
1		0605	74	45.	26.7	29.7	*	1		1425	174	39.	18.2	28.5	*	1		2245	274	12.	.8	24.4
1		0610	75	45.	26.9	29.7	*	1		1430	175	38.	18.0	28.5	*	1		2250	275	11.	.7	24.4
1		0615	76	45.	27.1	29.7	*	1		1435	176	38.	17.7	28.4	*	1		2255	276	11.	.6	24.3
1		0620	77	45.	27.3	29.8	*	1		1440	177	38.	17.4	28.4	*	1		2300	277	10.	.6	24.3
1		0625	78	45.	27.5	29.8	*	1		1445	178	37.	17.2	28.3	*	1		2305	278	10.	.5	24.2
1		0630	79	45.	27.7	29.8	*	1		1450	179	37.	16.9	28.3	*	1		2310	279	9.	.4	24.1
1		0635	80	45.	27.9	29.8	*	1		1455	180	37.	16.7	28.2	*	1		2315	280	9.	.4	24.1
1		0640	81	45.	28.1	29.8	*	1		1500	181	36.	16.4	28.2	*	1		2320	281	9.	.3	24.0
1		0645	82	45.	28.3	29.9	*	1		1505	182	36.	16.2	28.1	*	1		2325	282	8.	.2	23.9
1		0650	83	45.	28.4	29.9	*	1		1510	183	36.	15.9	28.1	*	1		2330	283	6.	.2	23.7
1		0655	84	45.	28.6	29.9	*	1		1515	184	35.	15.7	28.0	*	1		2335	284	5.	.2	23.6
1		0700	85	45.	28.7	29.9	*	1		1520	185	35.	15.4	28.0	*	1		2340	285	4.	.1	23.5
1		0705	86	46.	28.9	29.9	*	1		1525	186	35.	15.2	27.9	*	1		2345	286	3.	.1	23.4
1		0710	87	46.	29.0	29.9	*	1		1530	187	34.	15.0	27.9	*	1		2350	287	3.	.1	23.3
1		0715	88	46.	29.1	29.9	*	1		1535	188	34.	14.7	27.8	*	1		2355	288	2.	.1	23.2
1		0720	89	46.	29.3	30.0	*	1		1540	189	34.	14.5	27.8	*	2		0000	289	2.	.0	23.2
1		0725	90	46.	29.4	30.0	*	1		1545	190	34.	14.3	27.7	*	2		0005	290	1.	.0	23.2
1		0730	91	46.	29.5	30.0	*	1		1550	191	33.	14.0	27.7	*	2		0010	291	1.	.0	23.1
1		0735	92	46.	29.6	30.0	*	1		1555	192	33.	13.8	27.6	*	2		0015	292	1.	.0	23.1
1		0740	93	46.	29.7	30.0	*	1		1600	193	33.	13.6	27.6	*	2		0020	293	1.	.0	23.1
1		0745	94	46.	29.8	30.0	*	1		1605	194	32.	13.4	27.5	*	2		0025	294	1.	.0	23.1
1		0750	95	46.	29.9	30.0	*	1		1610	195	32.	13.1	27.5	*	2		0030	295	0.	.0	23.0
1		0755	96	46.	30.0	30.0	*	1		1615	196	32.	12.9	27.4	*	2		0035	296	0.	.0	23.0
1		0800	97	46.	30.0	30.0	*	1		1620	197	31.	12.7	27.4	*	2		0040	297	0.	.0	23.0
1		0805	98	46.	30.1	30.0	*	1		1625	198	31.	12.5	27.3	*	2		0045	298	0.	.0	23.0
1		0810	99	46.	30.2	30.1	*	1		1630	199	31.	12.3	27.3	*	2		0050	299	0.	.0	23.0

1	0815	100	46.	30.2	30.1	*	1	1635	200	31.	12.0	27.2	*	2	0055	300	0.	.0	23.0

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)	(CFS)				
46.	9.25		46.	30.	29.	29.
		(INCHES)	.394	1.031	1.031	1.031
		(AC-FT)	23.	59.	59.	59.

PEAK STORAGE	TIME		MAXIMUM AVERAGE STORAGE			
			6-HR	24-HR	72-HR	24.92-HR
(AC-FT)	(HR)					
31.	9.33		29.	14.	14.	14.

PEAK STAGE	TIME		MAXIMUM AVERAGE STAGE			
			6-HR	24-HR	72-HR	24.92-HR
(FEET)	(HR)					
30.10	9.33		29.96	27.29	27.13	27.13

CUMULATIVE AREA = 1.08 SQ MI

HYDROGRAPH AT STATION DET2
PLAN 1, RATIO = .91

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	23.0	*	1		0820	101	46.	29.3	30.0	*	1		1640	201	29.	10.8	27.0
1		0005	2	0.	.0	23.0	*	1		0825	102	46.	29.4	30.0	*	1		1645	202	29.	10.6	26.9
1		0010	3	0.	.0	23.0	*	1		0830	103	46.	29.4	30.0	*	1		1650	203	28.	10.4	26.9
1		0015	4	0.	.0	23.0	*	1		0835	104	46.	29.4	30.0	*	1		1655	204	28.	10.2	26.9
1		0020	5	0.	.0	23.0	*	1		0840	105	46.	29.5	30.0	*	1		1700	205	28.	10.0	26.8
1		0025	6	0.	.0	23.0	*	1		0845	106	46.	29.5	30.0	*	1		1705	206	28.	9.8	26.8
1		0030	7	1.	.0	23.1	*	1		0850	107	46.	29.5	30.0	*	1		1710	207	27.	9.6	26.7
1		0035	8	1.	.0	23.2	*	1		0855	108	46.	29.5	30.0	*	1		1715	208	27.	9.5	26.7
1		0040	9	2.	.1	23.2	*	1		0900	109	46.	29.5	30.0	*	1		1720	209	27.	9.3	26.7
1		0045	10	2.	.1	23.3	*	1		0905	110	46.	29.6	30.0	*	1		1725	210	27.	9.1	26.6
1		0050	11	3.	.1	23.3	*	1		0910	111	46.	29.6	30.0	*	1		1730	211	26.	8.9	26.6
1		0055	12	3.	.1	23.3	*	1		0915	112	46.	29.6	30.0	*	1		1735	212	26.	8.7	26.5
1		0100	13	2.	.1	23.3	*	1		0920	113	46.	29.5	30.0	*	1		1740	213	26.	8.5	26.5
1		0105	14	2.	.1	23.3	*	1		0925	114	46.	29.5	30.0	*	1		1745	214	26.	8.4	26.5
1		0110	15	2.	.1	23.3	*	1		0930	115	46.	29.5	30.0	*	1		1750	215	26.	8.2	26.4
1		0115	16	2.	.1	23.3	*	1		0935	116	46.	29.5	30.0	*	1		1755	216	25.	8.0	26.4
1		0120	17	2.	.1	23.3	*	1		0940	117	46.	29.4	30.0	*	1		1800	217	25.	7.8	26.4
1		0125	18	3.	.1	23.3	*	1		0945	118	46.	29.4	30.0	*	1		1805	218	25.	7.7	26.3
1		0130	19	3.	.1	23.4	*	1		0950	119	46.	29.3	30.0	*	1		1810	219	25.	7.5	26.3
1		0135	20	4.	.1	23.5	*	1		0955	120	46.	29.2	30.0	*	1		1815	220	24.	7.3	26.2
1		0140	21	5.	.2	23.7	*	1		1000	121	46.	29.1	29.9	*	1		1820	221	24.	7.2	26.2
1		0145	22	7.	.2	23.8	*	1		1005	122	46.	29.0	29.9	*	1		1825	222	24.	7.0	26.2
1		0150	23	8.	.2	24.0	*	1		1010	123	46.	28.9	29.9	*	1		1830	223	24.	6.8	26.1
1		0155	24	9.	.3	24.0	*	1		1015	124	46.	28.8	29.9	*	1		1835	224	24.	6.7	26.1
1		0200	25	9.	.3	24.1	*	1		1020	125	45.	28.7	29.9	*	1		1840	225	23.	6.5	26.1
1		0205	26	9.	.4	24.1	*	1		1025	126	45.	28.6	29.9	*	1		1845	226	23.	6.4	26.0
1		0210	27	9.	.4	24.1	*	1		1030	127	45.	28.5	29.9	*	1		1850	227	23.	6.2	26.0
1		0215	28	10.	.4	24.2	*	1		1035	128	45.	28.4	29.9	*	1		1855	228	23.	6.0	26.0
1		0220	29	10.	.5	24.2	*	1		1040	129	45.	28.2	29.9	*	1		1900	229	22.	5.9	25.9
1		0225	30	11.	.6	24.3	*	1		1045	130	45.	28.1	29.8	*	1		1905	230	22.	5.7	25.9
1		0230	31	11.	.7	24.3	*	1		1050	131	45.	27.9	29.8	*	1		1910	231	22.	5.6	25.9
1		0235	32	12.	.8	24.4	*	1		1055	132	45.	27.8	29.8	*	1		1915	232	22.	5.4	25.8
1		0240	33	13.	.9	24.5	*	1		1100	133	45.	27.6	29.8	*	1		1920	233	22.	5.3	25.8
1		0245	34	13.	1.0	24.6	*	1		1105	134	45.	27.5	29.8	*	1		1925	234	21.	5.1	25.8
1		0250	35	14.	1.1	24.7	*	1		1110	135	45.	27.3	29.7	*	1		1930	235	21.	5.0	25.7
1		0255	36	15.	1.2	24.8	*	1		1115	136	45.	27.1	29.7	*	1		1935	236	21.	4.8	25.7
1		0300	37	15.	1.3	24.9	*	1		1120	137	45.	26.9	29.7	*	1		1940	237	21.	4.7	25.7
1		0305	38	16.	1.4	25.0	*	1		1125	138	45.	26.7	29.7	*	1		1945	238	21.	4.5	25.7
1		0310	39	17.	1.5	25.0	*	1		1130	139	44.	26.5	29.7	*	1		1950	239	21.	4.4	25.6
1		0315	40	17.	1.7	25.1	*	1		1135	140	44.	26.3	29.6	*	1		1955	240	20.	4.3	25.6
1		0320	41	17.	2.0	25.1	*	1		1140	141	44.	26.0	29.6	*	1		2000	241	20.	4.1	25.6
1		0325	42	18.	2.6	25.2	*	1		1145	142	44.	25.8	29.6	*	1		2005	242	20.	4.0	25.5
1		0330	43	19.	3.4	25.4	*	1		1150	143	44.	25.6	29.6	*	1		2010	243	20.	3.8	25.5
1		0335	44	21.	4.6	25.7	*	1		1155	144	44.	25.3	29.5	*	1		2015	244	20.	3.7	25.5
1		0340	45	23.	6.1	26.0	*	1		1200	145	44.	25.1	29.5	*	1		2020	245	19.	3.6	25.5
1		0345	46	25.	7.8	26.3	*	1		1205	146	44.	24.8	29.5	*	1		2025	246	19.	3.4	25.4
1		0350	47	27.	9.4	26.7	*	1		1210	147	44.	24.5	29.4	*	1		2030	247	19.	3.3	25.4
1		0355	48	29.	10.9	27.0	*	1		1215	148	43.	24.3	29.4	*	1		2035	248	19.	3.2	25.4
1		0400	49	31.	12.3	27.3	*	1		1220	149	43.	24.0	29.4	*	1		2040	249	19.	3.1	25.3
1		0405	50	32.	13.4	27.5	*	1		1225	150	43.	23.7	29.4	*	1		2045	250	19.	2.9	25.3
1		0410	51	34.	14.4	27.7	*	1		1230	151	43.	23.4	29.3	*	1		2050	251	18.	2.8	25.3
1		0415	52	35.	15.3	27.9	*	1		1235	152	43.	23.1	29.3	*	1		2055	252	18.	2.7	25.3
1		0420	53	36.	16.1	28.1	*	1		1240	153	43.	22.8	29.3	*	1		2100	253	18.	2.5	25.2
1		0425	54	37.	16.7	28.2	*	1		1245	154	43.	22.5	29.2	*	1		2105	254	18.	2.4	25.2
1		0430	55	38.	17.3	28.3	*	1		1250	155	43.	22.2	29.2	*	1		2110	255	18.	2.3	25.2
1		0435	56	38.	17.9	28.5	*	1		1255	156	42.	21.9	29.2	*	1		2115	256	18.	2.2	25.2
1		0440	57	39.	18.5	28.6	*	1		1300	157	42.	21.6	29.1	*	1		2120	257	17.	2.1	25.1
1		0445	58	40.	19.1	28.7	*	1		1305	158	42.	21.3	29.1	*	1		2125	258	17.	1.9	25.1
1		0450	59	41.	19.8	28.9	*	1		1310	159	42.	21.0	29.1	*	1		2130	259	17.	1.8	25.1
1		0455	60	42.	20.4	29.0	*	1		1315	160	42.	20.7	29.0	*	1		2135	260	17.	1.7	25.1
1		0500	61	42.	21.0	29.1	*	1		1320	161	42.	20.5	29.0	*	1		2140	261	17.	1.6	25.0
1		0505	62	42.	21.6	29.1	*	1		1325	162	41.	20.2	29.0	*	1		2145	262	17.	1.5	25.0
1		0510	63	43.	22.2	29.2	*	1		1330	163	41.	19.9	28.9	*	1		2150	263	16.	1.4	24.9
1		0515	64	43.	22.7	29.2	*	1		1335	164	41.	19.6	28.8	*	1		2155	264	15.	1.3	24.8
1		0520	65	43.	23.2	29.3	*	1		1340	165	40.	19.3	28.8	*	1		2200	265	15.	1.1	24.8
1		0525	66	43.	23.6	29.3	*	1		1345	166	40.	19.1	28.7	*	1		2205	266	14.	1.1	24.7
1		0530	67	43.	23.9	29.4	*	1		1350	167	40.	18.8	28.7	*	1		2210	267	13.	1.0	24.6
1		0535	68	43.	24.3	29.4	*	1		1355	168	39.	18.5	28.6	*	1		2215	268	13.	.9	24.5
1		0540	69	44.	24.6	29.5	*	1		1400	169	39.	18.2	28.5	*	1		2220	269	12.	.8	24.4
1		0545	70	44.	24.8	29.5	*	1		1405	170	38.	18.0	28.5	*	1		2225	270	11.	.7	24.4
1		0550	71	44.	25.1	29.5	*	1		1410	171	38.	17.7	28.4	*	1		2230	271	11.	.6	24.3
1		0555	72	44.	25.4	29.5	*	1		1415	172	38.	17.4	28.4	*	1		2235	272	10.	.6	24.3
1		0600	73	44.	25.6	29.6	*	1		1420	173	37.	17.2	28.3	*	1		2240	273	10.	.5	24.2
1		0605	74	44.	25.9	29.6	*	1		1425	174	37.	16.9	28.3	*	1		2245	274	9.	.4	24.1
1		0610	75	44.	26.1	29.6	*	1		1430	175	37.	16.7	28.2	*	1		2250	275	9.	.4	24.1
1		0615	76	44.	26.3	29.6	*	1		1435	176	36.	16.4	28.2	*	1		2255	276	9.	.3	24.0
1		0620	77	44.	26.5	29.7	*	1		1440	177	36.	16.2	28.1	*	1		2300	277	8.	.2	23.9
1		0625	78	45.	26.7	29.7	*	1		1445	178	36.	15.9	28.1	*	1		2305	278	6.	.2	23.7
1		0630	79	45.	26.9	29.7	*	1		1450	179	35.	15.7	28.0	*	1		2310	279	5.	.2	23.6
1		0635	80	45.	27.1	29.7	*	1		1455	180	35.	15.4	28.0	*	1		2315	280	4.	.1	23.5
1		0640	81	45.	27.2	29.7	*	1		1500	181	35.	15.2	27.9	*	1		2320	281	3.	.1	23.4
1		0645	82	45.	27.4	29.8	*	1		1505	182	34.	15.0	27.9	*	1		2325	282	3.	.1	23.3
1		0650	83	45.	27.6	29.8	*	1		1510	183	34.	14.7	27.8	*	1		2330	283	2.	.1	23.2
1		0655	84	45.	27.7	29.8	*	1		1515	184	34.	14.5	27.8	*	1		2335	284	2.	.0	23.2
1		0700	85	45.	27.9	29.8	*	1		1520	185	34.	14.3	27.7	*	1		2340	285	1.	.0	23.2
1		0705	86	45.	28.0	29.8	*	1		1525	186	33.	14.0	27.7	*	1		2345	286	1.	.0	23.1
1		0710	87	45.	28.1	29.8	*	1		1530	187	33.	13.8	27.6	*	1		2350	287	1.	.0	23.1
1		0715	88	45.	28.2	29.9	*	1		1535	188	33.	13.6	27.6	*	1		2355	288	1.	.0	23.1
1		0720	89	45.	28.4	29.9	*	1		1540	189	32.	13.3	27.5	*	2		0000	289	1.	.0	23.1
1		0725	90	45.	28.5	29.9	*	1		1545	190	32.	13.1	27.5	*	2		0005	290	0.	.0	23.0
1		0730	91	45.	28.6	29.9	*	1		1550	191	32.	12.9	27.4	*	2		0010	291	0.	.0	23.0
1		0735	92	45.	28.7	29.9	*	1		1555	192	31.	12.7	27.4	*	2		0015	292	0.	.0	23.0
1		0740	93	46.	28.8	29.9	*	1		1600	193	31.	12.5	27.3	*	2		0020	293	0.	.0	23.0
1		0745	94	46.	28.8	29.9	*	1		1605	194	31.	12.3	27.3	*	2		0025	294	0.	.0	23.0
1		0750	95	46.	28.9	29.9	*	1		1610	195	31.	12.0	27.2	*	2		0030	295	0.	.0	23.0
1		0755	96	46.	29.0	29.9	*	1		1615	196	30.	11.8	27.2	*	2		0035	296	0.	.0	23.0
1		0800	97	46.	29.1	29.9	*	1		1620	197	30.	11.6	27.2	*	2		0040	297	0.	.0	23.0
1		0805	98	46.	29.1	29.9	*	1		1625	198	30.	11.4	27.1	*	2		0045	298	0.	.0	23.0
1		0810	99	46.	29.2	30.0	*	1		1630	199	30.	11.2	27.1	*	2		0050	299	0.	.0	23.0
1		0815	100	46.	29.3	30.0	*	1		1635	200	29.	11.0	27.0	*	2		0055	300	0.	.0	23.0

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)	(CFS)				
46.	9.17		45.	29.	28.	28.
		(INCHES)	.390	.997	.997	.997
		(AC-FT)	22.	57.	57.	57.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
(AC-FT)	(HR)				
30.	9.17	28.	14.	13.	13.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
(FEET)	(HR)				
29.99	9.17	29.85	27.13	26.98	26.98

CUMULATIVE AREA = 1.08 SQ MI

HYDROGRAPH AT STATION DET2
PLAN 1, RATIO = .90

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	23.0	1		0820	101	46.	28.8	29.9	1		1640	201	28.	10.3	26.9
1		0005	2	0.	.0	23.0	1		0825	102	46.	28.9	29.9	1		1645	202	28.	10.1	26.8
1		0010	3	0.	.0	23.0	1		0830	103	46.	28.9	29.9	1		1650	203	28.	9.9	26.8
1		0015	4	0.	.0	23.0	1		0835	104	46.	28.9	29.9	1		1655	204	28.	9.7	26.8
1		0020	5	0.	.0	23.0	1		0840	105	46.	29.0	29.9	1		1700	205	27.	9.6	26.7
1		0025	6	0.	.0	23.0	1		0845	106	46.	29.0	29.9	1		1705	206	27.	9.4	26.7
1		0030	7	1.	.0	23.1	1		0850	107	46.	29.0	29.9	1		1710	207	27.	9.2	26.6
1		0035	8	1.	.0	23.2	1		0855	108	46.	29.0	29.9	1		1715	208	27.	9.0	26.6
1		0040	9	2.	.1	23.2	1		0900	109	46.	29.0	29.9	1		1720	209	26.	8.8	26.6
1		0045	10	2.	.1	23.3	1		0905	110	46.	29.0	29.9	1		1725	210	26.	8.6	26.5
1		0050	11	2.	.1	23.3	1		0910	111	46.	29.0	29.9	1		1730	211	26.	8.5	26.5
1		0055	12	2.	.1	23.3	1		0915	112	46.	29.0	29.9	1		1735	212	26.	8.3	26.4
1		0100	13	2.	.1	23.3	1		0920	113	46.	29.0	29.9	1		1740	213	25.	8.1	26.4
1		0105	14	2.	.1	23.3	1		0925	114	46.	29.0	29.9	1		1745	214	25.	7.9	26.4
1		0110	15	2.	.1	23.3	1		0930	115	46.	29.0	29.9	1		1750	215	25.	7.8	26.3
1		0115	16	2.	.1	23.3	1		0935	116	46.	28.9	29.9	1		1755	216	25.	7.6	26.3
1		0120	17	2.	.1	23.3	1		0940	117	46.	28.9	29.9	1		1800	217	24.	7.4	26.3
1		0125	18	2.	.1	23.3	1		0945	118	46.	28.8	29.9	1		1805	218	24.	7.2	26.2
1		0130	19	3.	.1	23.4	1		0950	119	45.	28.7	29.9	1		1810	219	24.	7.1	26.2
1		0135	20	4.	.1	23.5	1		0955	120	45.	28.6	29.9	1		1815	220	24.	6.9	26.2
1		0140	21	5.	.2	23.6	1		1000	121	45.	28.5	29.9	1		1820	221	24.	6.8	26.1
1		0145	22	7.	.2	23.8	1		1005	122	45.	28.5	29.9	1		1825	222	23.	6.6	26.1
1		0150	23	8.	.2	24.0	1		1010	123	45.	28.4	29.9	1		1830	223	23.	6.4	26.1
1		0155	24	8.	.3	24.0	1		1015	124	45.	28.2	29.9	1		1835	224	23.	6.3	26.0
1		0200	25	9.	.3	24.1	1		1020	125	45.	28.1	29.8	1		1840	225	23.	6.1	26.0
1		0205	26	9.	.4	24.1	1		1025	126	45.	28.0	29.8	1		1845	226	23.	6.0	26.0
1		0210	27	9.	.4	24.1	1		1030	127	45.	27.9	29.8	1		1850	227	22.	5.8	25.9
1		0215	28	9.	.4	24.1	1		1035	128	45.	27.7	29.8	1		1855	228	22.	5.7	25.9
1		0220	29	10.	.5	24.2	1		1040	129	45.	27.6	29.8	1		1900	229	22.	5.5	25.9
1		0225	30	10.	.5	24.2	1		1045	130	45.	27.5	29.8	1		1905	230	22.	5.3	25.8
1		0230	31	11.	.6	24.3	1		1050	131	45.	27.3	29.8	1		1910	231	22.	5.2	25.8
1		0235	32	12.	.7	24.4	1		1055	132	45.	27.2	29.7	1		1915	232	21.	5.1	25.8
1		0240	33	12.	.8	24.5	1		1100	133	45.	27.0	29.7	1		1920	233	21.	4.9	25.7
1		0245	34	13.	.9	24.6	1		1105	134	45.	26.8	29.7	1		1925	234	21.	4.8	25.7
1		0250	35	14.	1.0	24.7	1		1110	135	45.	26.6	29.7	1		1930	235	21.	4.6	25.7
1		0255	36	14.	1.1	24.7	1		1115	136	44.	26.4	29.7	1		1935	236	21.	4.5	25.6
1		0300	37	15.	1.2	24.8	1		1120	137	44.	26.2	29.6	1		1940	237	20.	4.3	25.6
1		0305	38	16.	1.3	24.9	1		1125	138	44.	26.0	29.6	1		1945	238	20.	4.2	25.6
1		0310	39	17.	1.5	25.0	1		1130	139	44.	25.8	29.6	1		1950	239	20.	4.1	25.6
1		0315	40	17.	1.7	25.0	1		1135	140	44.	25.6	29.6	1		1955	240	20.	3.9	25.5
1		0320	41	17.	2.0	25.1	1		1140	141	44.	25.4	29.5	1		2000	241	20.	3.8	25.5
1		0325	42	18.	2.5	25.2	1		1145	142	44.	25.1	29.5	1		2005	242	20.	3.6	25.5
1		0330	43	19.	3.4	25.4	1		1150	143	44.	24.9	29.5	1		2010	243	19.	3.5	25.4
1		0335	44	21.	4.5	25.7	1		1155	144	44.	24.6	29.5	1		2015	244	19.	3.4	25.4
1		0340	45	23.	6.0	26.0	1		1200	145	44.	24.4	29.4	1		2020	245	19.	3.2	25.4
1		0345	46	25.	7.6	26.3	1		1205	146	43.	24.1	29.4	1		2025	246	19.	3.1	25.4
1		0350	47	27.	9.2	26.6	1		1210	147	43.	23.8	29.4	1		2030	247	19.	3.0	25.3
1		0355	48	29.	10.7	27.0	1		1215	148	43.	23.5	29.3	1		2035	248	18.	2.9	25.3
1		0400	49	31.	12.1	27.2	1		1220	149	43.	23.2	29.3	1		2040	249	18.	2.7	25.3
1		0405	50	32.	13.2	27.5	1		1225	150	43.	22.9	29.3	1		2045	250	18.	2.6	25.2
1		0410	51	33.	14.2	27.7	1		1230	151	43.	22.6	29.2	1		2050	251	18.	2.5	25.2
1		0415	52	35.	15.0	27.9	1		1235	152	43.	22.4	29.2	1		2055	252	18.	2.4	25.2
1		0420	53	36.	15.8	28.0	1		1240	153	42.	22.1	29.2	1		2100	253	18.	2.2	25.2
1		0425	54	36.	16.4	28.2	1		1245	154	42.	21.8	29.1	1		2105	254	17.	2.1	25.1
1		0430	55	37.	17.0	28.3	1		1250	155	42.	21.5	29.1	1		2110	255	17.	2.0	25.1
1		0435	56	38.	17.6	28.4	1		1255	156	42.	21.2	29.1	1		2115	256	17.	1.9	25.1
1		0440	57	39.	18.2	28.5	1		1300	157	42.	20.9	29.1	1		2120	257	17.	1.8	25.1
1		0445	58	40.	18.8	28.7	1		1305	158	42.	20.6	29.0	1		2125	258	17.	1.6	25.0
1		0450	59	40.	19.4	28.8	1		1310	159	42.	20.3	29.0	1		2130	259	17.	1.5	25.0
1		0455	60	41.	20.1	28.9	1		1315	160	41.	20.0	28.9	1		2135	260	16.	1.4	25.0
1		0500	61	42.	20.7	29.0	1		1320	161	41.	19.8	28.9	1		2140	261	16.	1.3	24.9
1		0505	62	42.	21.3	29.1	1		1325	162	40.	19.5	28.8	1		2145	262	15.	1.2	24.8
1		0510	63	42.	21.8	29.2	1		1330	163	40.	19.2	28.7	1		2150	263	14.	1.1	24.7
1		0515	64	43.	22.3	29.2	1		1335	164	40.	18.9	28.7	1		2155	264	14.	1.0	24.6
1		0520	65	43.	22.8	29.3	1		1340	165	39.	18.6	28.6	1		2200	265	13.	.9	24.6
1		0525	66	43.	23.2	29.3	1		1345	166	39.	18.4	28.6	1		2205	266	12.	.8	24.5
1		0530	67	43.	23.5	29.3	1		1350	167	39.	18.1	28.5	1		2210	267	12.	.7	24.4
1		0535	68	43.	23.9	29.4	1		1355	168	38.	17.8	28.5	1		2215	268	11.	.7	24.3
1		0540	69	43.	24.2	29.4	1		1400	169	38.	17.6	28.4	1		2220	269	11.	.6	24.3
1		0545	70	44.	24.5	29.4	1		1405	170	38.	17.3	28.4	1		2225	270	10.	.5	24.2
1		0550	71	44.	24.7	29.5	1		1410	171	37.	17.1	28.3	1		2230	271	10.	.5	24.2
1		0555	72	44.	25.0	29.5	1		1415	172	37.	16.8	28.2	1		2235	272	9.	.4	24.1
1		0600	73	44.	25.2	29.5	1		1420	173	37.	16.6	28.2	1		2240	273	9.	.3	24.1
1		0605	74	44.	25.5	29.5	1		1425	174	36.	16.3	28.1	1		2245	274	8.	.3	24.0
1		0610	75	44.	25.7	29.6	1		1430	175	36.	16.1	28.1	1		2250	275	7.	.2	23.8
1		0615	76	44.	25.9	29.6	1		1435	176	36.	15.8	28.0	1		2255	276	6.	.2	23.7
1		0620	77	44.	26.1	29.6	1		1440	177	35.	15.6	28.0	1		2300	277	4.	.1	23.5
1		0625	78	44.	26.3	29.6	1		1445	178	35.	15.3	27.9	1		2305	278	4.	.1	23.4
1		0630	79	44.	26.5	29.7	1		1450	179	35.	15.1	27.9	1		2310	279	3.	.1	23.3
1		0635	80	45.	26.7	29.7	1		1455	180	34.	14.8	27.8	1		2315	280	2.	.1	23.3
1		0640	81	45.	26.8	29.7	1		1500	181	34.	14.6	27.8	1		2320	281	2.	.1	23.2
1		0645	82	45.	27.0	29.7	1		1505	182	34.	14.4	27.7	1		2325	282	1.	.0	23.2
1		0650	83	45.	27.1	29.7	1		1510	183	33.	14.1	27.7	1		2330	283	1.	.0	23.1
1		0655	84	45.	27.3	29.7	1		1515	184	33.	13.9	27.6	1		2335	284	1.	.0	23.1
1		0700	85	45.	27.4	29.8	1		1520	185	33.	13.7	27.6	1		2340	285	1.	.0	23.1
1		0705	86	45.	27.5	29.8	1		1525	186	33.	13.5	27.5	1		2345	286	1.	.0	23.1
1		0710	87	45.	27.7	29.8	1		1530	187	32.	13.2	27.5	1		2350	287	0.	.0	23.1
1		0715	88	45.	27.8	29.8	1		1535	188	32.	13.0	27.4	1		2355	288	0.	.0	23.0
1		0720	89	45.	27.9	29.8	1		1540	189	32.	12.8	27.4	2		0000	289	0.	.0	23.0
1		0725	90	45.	28.0	29.8	1		1545	190	31.	12.6	27.4	2		0005	290	0.	.0	23.0
1		0730	91	45.	28.1	29.8	1		1550	191	31.	12.4	27.3	2		0010	291	0.	.0	23.0
1		0735	92	45.	28.2	29.8	1		1555	192	31.	12.2	27.3	2		0015	292	0.	.0	23.0
1		0740	93	45.	28.3	29.9	1		1600	193	31.	11.9	27.2	2		0020	293	0.	.0	23.0
1		0745	94	45.	28.4	29.9	1		1605	194	30.	11.7	27.2	2		0025	294	0.	.0	23.0
1		0750	95	45.	28.5	29.9	1		1610	195	30.	11.5	27.1	2		0030	295	0.	.0	23.0
1		0755	96	45.	28.5	29.9	1		1615	196	30.	11.3	27.1	2		0035	296	0.	.0	23.0
1		0800	97	45.	28.6	29.9	1		1620	197	29.	11.1	27.0	2		0040	297	0.	.0	23.0
1		0805	98	45.	28.7	29.9	1		1625	198	29.	10.9	27.0	2		0045	298	0.	.0	23.0
1		0810	99	45.	28.7	29.9	1		1630	199	29.	10.7	27.0	2		0050	299	0.	.0	23.0
1		0815	100	46.	28.8	29.9	1		1635	200	29.	10.5	26.9	2		0055	300	0.	.0	23.0

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)	(CFS)				

+	46.	9.08		45.	28.	27.	27.
			(INCHES)	.388	.981	.981	.981
			(AC-FT)	22.	56.	56.	56.

PEAK STORAGE	TIME		MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR	
+ (AC-FT)	(HR)					
29.	9.17	28.	13.	13.	13.	

PEAK STAGE	TIME		MAXIMUM AVERAGE STAGE		
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
29.94	9.17	29.79	27.06	26.91	26.91

CUMULATIVE AREA = 1.08 SQ MI

HYDROGRAPH AT STATION DET2
PLAN 1, RATIO = .70

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	23.0	1		0820	101	40.	19.2	28.7	1		1640	201	18.	2.6	25.2
1		0005	2	0.	.0	23.0	1		0825	102	40.	19.1	28.7	1		1645	202	18.	2.5	25.2
1		0010	3	0.	.0	23.0	1		0830	103	40.	19.1	28.7	1		1650	203	18.	2.3	25.2
1		0015	4	0.	.0	23.0	1		0835	104	40.	19.0	28.7	1		1655	204	18.	2.2	25.2
1		0020	5	0.	.0	23.0	1		0840	105	40.	18.9	28.7	1		1700	205	17.	2.1	25.1
1		0025	6	0.	.0	23.0	1		0845	106	40.	18.8	28.7	1		1705	206	17.	2.0	25.1
1		0030	7	0.	.0	23.0	1		0850	107	40.	18.8	28.7	1		1710	207	17.	1.8	25.1
1		0035	8	1.	.0	23.1	1		0855	108	39.	18.7	28.6	1		1715	208	17.	1.7	25.1
1		0040	9	1.	.0	23.1	1		0900	109	39.	18.6	28.6	1		1720	209	17.	1.6	25.0
1		0045	10	1.	.0	23.1	1		0905	110	39.	18.5	28.6	1		1725	210	17.	1.5	25.0
1		0050	11	1.	.0	23.1	1		0910	111	39.	18.4	28.6	1		1730	211	16.	1.4	25.0
1		0055	12	1.	.0	23.1	1		0915	112	39.	18.3	28.5	1		1735	212	15.	1.3	24.9
1		0100	13	1.	.0	23.1	1		0920	113	39.	18.1	28.5	1		1740	213	15.	1.2	24.8
1		0105	14	1.	.0	23.1	1		0925	114	39.	18.0	28.5	1		1745	214	14.	1.1	24.7
1		0110	15	1.	.0	23.1	1		0930	115	38.	17.9	28.5	1		1750	215	13.	1.0	24.6
1		0115	16	1.	.0	23.1	1		0935	116	38.	17.7	28.4	1		1755	216	13.	.9	24.5
1		0120	17	1.	.0	23.1	1		0940	117	38.	17.6	28.4	1		1800	217	12.	.8	24.5
1		0125	18	1.	.0	23.1	1		0945	118	38.	17.4	28.4	1		1805	218	12.	.7	24.4
1		0130	19	1.	.0	23.1	1		0950	119	38.	17.3	28.3	1		1810	219	11.	.6	24.3
1		0135	20	1.	.0	23.2	1		0955	120	37.	17.1	28.3	1		1815	220	11.	.6	24.3
1		0140	21	2.	.1	23.2	1		1000	121	37.	16.9	28.3	1		1820	221	10.	.5	24.2
1		0145	22	2.	.1	23.3	1		1005	122	37.	16.7	28.2	1		1825	222	10.	.4	24.2
1		0150	23	3.	.1	23.4	1		1010	123	37.	16.5	28.2	1		1830	223	9.	.4	24.1
1		0155	24	4.	.1	23.5	1		1015	124	36.	16.3	28.1	1		1835	224	9.	.3	24.0
1		0200	25	4.	.1	23.5	1		1020	125	36.	16.1	28.1	1		1840	225	8.	.2	24.0
1		0205	26	5.	.1	23.6	1		1025	126	36.	15.9	28.1	1		1845	226	7.	.2	23.8
1		0210	27	5.	.2	23.6	1		1030	127	35.	15.7	28.0	1		1850	227	5.	.2	23.6
1		0215	28	5.	.2	23.6	1		1035	128	35.	15.5	28.0	1		1855	228	4.	.1	23.5
1		0220	29	6.	.2	23.7	1		1040	129	35.	15.3	27.9	1		1900	229	3.	.1	23.4
1		0225	30	7.	.2	23.8	1		1045	130	35.	15.0	27.9	1		1905	230	3.	.1	23.3
1		0230	31	8.	.2	23.9	1		1050	131	34.	14.8	27.8	1		1910	231	2.	.1	23.3
1		0235	32	8.	.3	24.0	1		1055	132	34.	14.5	27.8	1		1915	232	2.	.1	23.2
1		0240	33	9.	.3	24.0	1		1100	133	34.	14.3	27.7	1		1920	233	1.	.0	23.2
1		0245	34	9.	.3	24.1	1		1105	134	33.	14.1	27.7	1		1925	234	1.	.0	23.1
1		0250	35	9.	.4	24.1	1		1110	135	33.	13.9	27.6	1		1930	235	1.	.0	23.1
1		0255	36	9.	.4	24.1	1		1115	136	33.	13.6	27.6	1		1935	236	1.	.0	23.1
1		0300	37	10.	.5	24.2	1		1120	137	32.	13.4	27.5	1		1940	237	1.	.0	23.1
1		0305	38	10.	.5	24.2	1		1125	138	32.	13.2	27.5	1		1945	238	0.	.0	23.1
1		0310	39	11.	.6	24.3	1		1130	139	32.	13.0	27.4	1		1950	239	0.	.0	23.0
1		0315	40	12.	.7	24.4	1		1135	140	32.	12.7	27.4	1		1955	240	0.	.0	23.0
1		0320	41	13.	.9	24.6	1		1140	141	31.	12.5	27.3	1		2000	241	0.	.0	23.0
1		0325	42	15.	1.2	24.8	1		1145	142	31.	12.3	27.3	1		2005	242	0.	.0	23.0
1		0330	43	17.	1.8	25.1	1		1150	143	31.	12.1	27.2	1		2010	243	0.	.0	23.0
1		0335	44	18.	2.5	25.2	1		1155	144	30.	11.9	27.2	1		2015	244	0.	.0	23.0
1		0340	45	19.	3.5	25.4	1		1200	145	30.	11.7	27.2	1		2020	245	0.	.0	23.0
1		0345	46	21.	4.6	25.7	1		1205	146	30.	11.5	27.1	1		2025	246	0.	.0	23.0
1		0350	47	22.	5.7	25.9	1		1210	147	30.	11.3	27.1	1		2030	247	0.	.0	23.0
1		0355	48	24.	6.8	26.1	1		1215	148	29.	11.1	27.0	1		2035	248	0.	.0	23.0
1		0400	49	25.	7.7	26.3	1		1220	149	29.	10.9	27.0	1		2040	249	0.	.0	23.0
1		0405	50	26.	8.5	26.5	1		1225	150	29.	10.7	26.9	1		2045	250	0.	.0	23.0
1		0410	51	27.	9.2	26.6	1		1230	151	29.	10.5	26.9	1		2050	251	0.	.0	23.0
1		0415	52	28.	9.9	26.8	1		1235	152	28.	10.3	26.9	1		2055	252	0.	.0	23.0
1		0420	53	28.	10.4	26.9	1		1240	153	28.	10.1	26.8	1		2100	253	0.	.0	23.0
1		0425	54	29.	10.9	27.0	1		1245	154	28.	9.9	26.8	1		2105	254	0.	.0	23.0
1		0430	55	30.	11.3	27.1	1		1250	155	28.	9.7	26.7	1		2110	255	0.	.0	23.0
1		0435	56	30.	11.8	27.2	1		1255	156	27.	9.5	26.7	1		2115	256	0.	.0	23.0
1		0440	57	31.	12.2	27.3	1		1300	157	27.	9.3	26.7	1		2120	257	0.	.0	23.0
1		0445	58	32.	12.7	27.4	1		1305	158	27.	9.1	26.6	1		2125	258	0.	.0	23.0
1		0450	59	32.	13.2	27.5	1		1310	159	27.	9.0	26.6	1		2130	259	0.	.0	23.0
1		0455	60	33.	13.7	27.6	1		1315	160	26.	8.8	26.5	1		2135	260	0.	.0	23.0
1		0500	61	33.	14.1	27.7	1		1320	161	26.	8.6	26.5	1		2140	261	0.	.0	23.0
1		0505	62	34.	14.6	27.8	1		1325	162	26.	8.4	26.5	1		2145	262	0.	.0	23.0
1		0510	63	35.	15.0	27.9	1		1330	163	26.	8.2	26.4	1		2150	263	0.	.0	23.0
1		0515	64	35.	15.4	27.9	1		1335	164	25.	8.1	26.4	1		2155	264	0.	.0	23.0
1		0520	65	36.	15.7	28.0	1		1340	165	25.	7.9	26.4	1		2200	265	0.	.0	23.0
1		0525	66	36.	16.0	28.1	1		1345	166	25.	7.7	26.3	1		2205	266	0.	.0	23.0
1		0530	67	36.	16.3	28.1	1		1350	167	25.	7.5	26.3	1		2210	267	0.	.0	23.0
1		0535	68	37.	16.6	28.2	1		1355	168	24.	7.4	26.3	1		2215	268	0.	.0	23.0
1		0540	69	37.	16.8	28.2	1		1400	169	24.	7.2	26.2	1		2220	269	0.	.0	23.0
1		0545	70	37.	17.0	28.3	1		1405	170	24.	7.0	26.2	1		2225	270	0.	.0	23.0
1		0550	71	37.	17.2	28.3	1		1410	171	24.	6.9	26.1	1		2230	271	0.	.0	23.0
1		0555	72	38.	17.4	28.4	1		1415	172	24.	6.7	26.1	1		2235	272	0.	.0	23.0
1		0600	73	38.	17.5	28.4	1		1420	173	23.	6.5	26.1	1		2240	273	0.	.0	23.0
1		0605	74	38.	17.7	28.4	1		1425	174	23.	6.4	26.0	1		2245	274	0.	.0	23.0
1		0610	75	38.	17.9	28.5	1		1430	175	23.	6.2	26.0	1		2250	275	0.	.0	23.0
1		0615	76	39.	18.0	28.5	1		1435	176	23.	6.1	26.0	1		2255	276	0.	.0	23.0
1		0620	77	39.	18.1	28.5	1		1440	177	23.	5.9	25.9	1		2300	277	0.	.0	23.0
1		0625	78	39.	18.3	28.5	1		1445	178	22.	5.8	25.9	1		2305	278	0.	.0	23.0
1		0630	79	39.	18.4	28.6	1		1450	179	22.	5.6	25.9	1		2310	279	0.	.0	23.0
1		0635	80	39.	18.5	28.6	1		1455	180	22.	5.5	25.8	1		2315	280	0.	.0	23.0
1		0640	81	39.	18.6	28.6	1		1500	181	22.	5.3	25.8	1		2320	281	0.	.0	23.0
1		0645	82	39.	18.7	28.6	1		1505	182	22.	5.2	25.8	1		2325	282	0.	.0	23.0
1		0650	83	40.	18.7	28.7	1		1510	183	21.	5.0	25.8	1		2330	283	0.	.0	23.0
1		0655	84	40.	18.8	28.7	1		1515	184	21.	4.9	25.7	1		2335	284	0.	.0	23.0
1		0700	85	40.	18.9	28.7	1		1520	185	21.	4.7	25.7	1		2340	285	0.	.0	23.0
1		0705	86	40.	19.0	28.7	1		1525	186	21.	4.6	25.7	1		2345	286	0.	.0	23.0
1		0710	87	40.	19.0	28.7	1		1530	187	21.	4.4	25.6	1		2350	287	0.	.0	23.0
1		0715	88	40.	19.1	28.7	1		1535	188	20.	4.3	25.6	1		2355	288	0.	.0	23.0
1		0720	89	40.	19.1	28.7	1		1540	189	20.	4.2	25.6	2		0000	289	0.	.0	23.0
1		0725	90	40.	19.2	28.7	1		1545	190	20.	4.0	25.5	2		0005	290	0.	.0	23.0
1		0730	91	40.	19.2	28.8	1		1550	191	20.	3.9	25.5	2		0010	291	0.	.0	23.0
1		0735	92	40.	19.3	28.8	1		1555	192	20.	3.7	25.5	2		0015	292	0.	.0	23.0
1		0740	93	40.	19.3	28.8	1		1600	193	19.	3.6	25.5	2		0020	293	0.	.0	23.0
1		0745	94	40.	19.3	28.8	1		1605	194	19.	3.5	25.4	2		0025	294	0.	.0	23.0
1		0750	95	40.	19.3	28.8	1		1610	195	19.	3.3	25.4	2		0030	295	0.	.0	23.0
1		0755	96	40.	19.3	28.8	1		1615	196	19.	3.2	25.4	2		0035	296	0.	.0	23.0
1		0800	97	40.	19.3	28.8	1		1620	197	19.	3.1	25.3	2		0040	297	0.	.0	23.0
1		0805	98	40.	19.3	28.8	1		1625	198	19.	3.0	25.3	2		0045	298	0.	.0	23.0
1		0810	99	40.	19.3	28.8	1		1630	199	18.	2.8	25.3	2		0050	299	0.	.0	23.0
1		0815	100	40.	19.2	28.8	1		1635	200	18.	2.7	25.3	2		0055	300	0.	.0	23.0

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR	
+ (CFS)	(HR)	(CFS)				
+ 40.	7.83	38.	19.	18.	18.	
		(INCHES) .328	.656	.656	.656	
		(AC-FT) 19.	38.	38.	38.	

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
19.	7.83	18.	7.	7.	7.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
28.77	7.83	28.43	25.61	25.51	25.51

CUMULATIVE AREA = 1.08 SQ MI

HYDROGRAPH AT STATION DET2
PLAN 1, RATIO = .57

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	23.0
1		0005	2	0.	.0	23.0
1		0010	3	0.	.0	23.0
1		0015	4	0.	.0	23.0
1		0020	5	0.	.0	23.0
1		0025	6	0.	.0	23.0
1		0030	7	0.	.0	23.0
1		0035	8	0.	.0	23.0
1		0040	9	0.	.0	23.0
1		0045	10	0.	.0	23.1
1		0050	11	0.	.0	23.1
1		0055	12	0.	.0	23.1
1		0100	13	0.	.0	23.0
1		0105	14	0.	.0	23.0
1		0110	15	0.	.0	23.0
1		0115	16	0.	.0	23.0
1		0120	17	0.	.0	23.0
1		0125	18	0.	.0	23.0
1		0130	19	0.	.0	23.1
1		0135	20	1.	.0	23.1
1		0140	21	1.	.0	23.1
1		0145	22	1.	.0	23.1
1		0150	23	1.	.0	23.2
1		0155	24	1.	.0	23.2
1		0200	25	2.	.0	23.2
1		0205	26	2.	.0	23.2
1		0210	27	2.	.0	23.2
1		0215	28	2.	.1	23.2
1		0220	29	2.	.1	23.2
1		0225	30	3.	.1	23.3
1		0230	31	3.	.1	23.4
1		0235	32	4.	.1	23.5
1		0240	33	5.	.1	23.6
1		0245	34	5.	.2	23.6
1		0250	35	6.	.2	23.7
1		0255	36	7.	.2	23.8
1		0300	37	7.	.2	23.9
1		0305	38	8.	.2	23.9
1		0310	39	8.	.3	24.0
1		0315	40	9.	.3	24.1
1		0320	41	10.	.4	24.2
1		0325	42	11.	.6	24.3
1		0330	43	14.	1.0	24.6
1		0335	44	17.	1.5	25.0
1		0340	45	18.	2.2	25.2
1		0345	46	19.	2.9	25.3
1		0350	47	20.	3.7	25.5
1		0355	48	21.	4.5	25.6
1		0400	49	21.	5.1	25.8
1		0405	50	22.	5.8	25.9
1		0410	51	23.	6.3	26.0
1		0415	52	24.	6.8	26.1
1		0420	53	24.	7.2	26.2
1		0425	54	25.	7.6	26.3
1		0430	55	25.	7.9	26.4
1		0435	56	26.	8.3	26.4
1		0440	57	26.	8.7	26.5
1		0445	58	27.	9.0	26.6
1		0450	59	27.	9.4	26.7
1		0455	60	28.	9.8	26.8
1		0500	61	28.	10.1	26.8
1		0505	62	29.	10.5	26.9
1		0510	63	29.	10.8	27.0
1		0515	64	29.	11.1	27.0
1		0520	65	30.	11.4	27.1
1		0525	66	30.	11.7	27.2
1		0530	67	30.	11.9	27.2
1		0535	68	31.	12.1	27.2
1		0540	69	31.	12.3	27.3
1		0545	70	31.	12.4	27.3
1		0550	71	31.	12.6	27.4
1		0555	72	32.	12.7	27.4
1		0600	73	32.	12.9	27.4
1		0605	74	32.	13.0	27.4
1		0610	75	32.	13.1	27.5
1		0615	76	32.	13.3	27.5
1		0620	77	32.	13.4	27.5
1		0625	78	33.	13.5	27.5
1		0630	79	33.	13.5	27.6
1		0635	80	33.	13.6	27.6
1		0640	81	33.	13.7	27.6
1		0645	82	33.	13.7	27.6
1		0650	83	33.	13.8	27.6
1		0655	84	33.	13.8	27.6
1		0700	85	33.	13.8	27.6
1		0705	86	33.	13.8	27.6
1		0710	87	33.	13.8	27.6
1		0715	88	33.	13.8	27.6
1		0720	89	33.	13.8	27.6
1		0725	90	33.	13.8	27.6
1		0730	91	33.	13.8	27.6
1		0735	92	33.	13.7	27.6
1		0740	93	33.	13.7	27.6
1		0745	94	33.	13.7	27.6
1		0750	95	33.	13.6	27.6
1		0755	96	33.	13.6	27.6
1		0800	97	33.	13.5	27.5
1		0805	98	32.	13.4	27.5
1		0810	99	32.	13.3	27.5
1		0815	100	32.	13.3	27.5
1		0820	101	32.	13.2	27.5
1		0825	102	32.	13.1	27.5
1		0830	103	32.	13.0	27.4
1		0835	104	32.	12.8	27.4
1		0840	105	32.	12.7	27.4
1		0845	106	31.	12.6	27.4
1		0850	107	31.	12.5	27.3
1		0855	108	31.	12.3	27.3
1		0900	109	31.	12.2	27.3
1		0905	110	31.	12.0	27.2
1		0910	111	30.	11.8	27.2
1		0915	112	30.	11.7	27.2
1		0920	113	30.	11.5	27.1
1		0925	114	30.	11.3	27.1
1		0930	115	29.	11.1	27.0
1		0935	116	29.	10.9	27.0
1		0940	117	29.	10.7	27.0
1		0945	118	29.	10.5	26.9
1		0950	119	28.	10.3	26.9
1		0955	120	28.	10.1	26.8
1		1000	121	28.	9.9	26.8
1		1005	122	28.	9.8	26.8
1		1010	123	27.	9.6	26.7
1		1015	124	27.	9.4	26.7
1		1020	125	27.	9.2	26.6
1		1025	126	27.	9.0	26.6
1		1030	127	26.	8.8	26.6
1		1035	128	26.	8.6	26.5
1		1040	129	26.	8.5	26.5
1		1045	130	26.	8.3	26.4
1		1050	131	25.	8.1	26.4
1		1055	132	25.	7.9	26.4
1		1100	133	25.	7.8	26.3
1		1105	134	25.	7.6	26.3
1		1110	135	25.	7.4	26.3
1		1115	136	24.	7.3	26.2
1		1120	137	24.	7.1	26.2
1		1125	138	24.	6.9	26.2
1		1130	139	24.	6.8	26.1
1		1135	140	23.	6.6	26.1
1		1140	141	23.	6.4	26.1
1		1145	142	23.	6.3	26.0
1		1150	143	23.	6.1	26.0
1		1155	144	23.	6.0	26.0
1		1200	145	22.	5.8	25.9
1		1205	146	22.	5.7	25.9
1		1210	147	22.	5.5	25.9
1		1215	148	22.	5.4	25.8
1		1220	149	22.	5.2	25.8
1		1225	150	21.	5.1	25.8
1		1230	151	21.	4.9	25.7
1		1235	152	21.	4.8	25.7
1		1240	153	21.	4.6	25.7
1		1245	154	21.	4.5	25.6
1		1250	155	20.	4.3	25.6
1		1255	156	20.	4.2	25.6
1		1300	157	20.	4.1	25.6
1		1305	158	20.	3.9	25.5
1		1310	159	20.	3.8	25.5
1		1315	160	20.	3.6	25.5
1		1320	161	19.	3.5	25.4
1		1325	162	19.	3.4	25.4
1		1330	163	19.	3.3	25.4
1		1335	164	19.	3.1	25.4
1		1340	165	19.	3.0	25.3
1		1345	166	18.	2.9	25.3
1		1350	167	18.	2.7	25.3
1		1355	168	18.	2.6	25.2
1		1400	169	18.	2.5	25.2
1		1405	170	18.	2.4	25.2
1		1410	171	18.	2.2	25.2
1		1415	172	17.	2.1	25.1
1		1420	173	17.	2.0	25.1
1		1425	174	17.	1.9	25.1
1		1430	175	17.	1.8	25.1
1		1435	176	17.	1.6	25.0
1		1440	177	17.	1.5	25.0
1		1445	178	16.	1.4	25.0
1		1450	179	16.	1.3	24.9
1		1455	180	15.	1.2	24.8
1		1500	181	14.	1.1	24.7
1		1505	182	14.	1.0	24.6
1		1510	183	13.	.9	24.6
1		1515	184	12.	.8	24.5
1		1520	185	12.	.7	24.4
1		1525	186	11.	.7	24.4
1		1530	187	11.	.6	24.3
1		1535	188	10.	.5	24.2
1		1540	189	10.	.5	24.2
1		1545	190	9.	.4	24.1
1		1550	191	9.	.3	24.1
1		1555	192	8.	.3	24.0
1		1600	193	7.	.2	23.8
1		1605	194	6.	.2	23.7
1		1610	195	4.	.1	23.5
1		1615	196	4.	.1	23.4
1		1620	197	3.	.1	23.3
1		1625	198	2.	.1	23.3
1		1630	199	2.	.1	23.2
1		1635	200	1.	.0	23.2
1		1640	201	1.	.0	23.1
1		1645	202	1.	.0	23.1
1		1650	203	1.	.0	23.1
1		1655	204	1.	.0	23.1
1		1700	205	0.	.0	23.1
1		1705	206	0.	.0	23.0
1		1710	207	0.	.0	23.0
1		1715	208	0.	.0	23.0
1		1720	209	0.	.0	23.0
1		1725	210	0.	.0	23.0
1		1730	211	0.	.0	23.0
1		1735	212	0.	.0	23.0
1		1740	213	0.	.0	23.0
1		1745	214	0.	.0	23.0
1		1750	215	0.	.0	23.0
1		1755	216	0.	.0	23.0
1		1800	217	0.	.0	23.0
1		1805	218	0.	.0	23.0
1		1810	219	0.	.0	23.0
1		1815	220	0.	.0	23.0
1		1820	221	0.	.0	23.0
1		1825	222	0.	.0	23.0
1		1830	223	0.	.0	23.0
1		1835	224	0.	.0	23.0
1		1840	225	0.	.0	23.0
1		1845	226	0.	.0	23.0
1		1850	227	0.	.0	23.0
1		1855	228	0.	.0	23.0
1		1900	229	0.	.0	23.0
1		1905	230	0.	.0	23.0
1		1910	231	0.	.0	23.0
1		1915	232	0.	.0	23.0
1		1920	233	0.	.0	23.0
1		1925	234	0.	.0	23.0
1		1930	235	0.	.0	23.0
1		1935	236	0.	.0	23.0
1		1940	237	0.	.0	23.0
1		1945	238	0.	.0	23.0
1		1950	239	0.	.0	23.0
1		1955	240	0.	.0	23.0
1		2000	241	0.	.0	23.0
1		2005	242	0.	.0	23.0
1		2010	243	0.	.0	23.0
1		2015	244	0.	.0	23.0
1		2020	245	0.	.0	23.0
1		2025	246	0.	.0	23.0
1		2030	247	0.	.0	23.0
1		2035	248	0.	.0	23.0
1		2040	249	0.	.0	23.0
1		2045	250	0.	.0	23.0
1		2050	251	0.	.0	23.0
1		2055	252	0.	.0	23.0
1		2100	253	0.	.0	23.0
1		2105	254	0.	.0	23.0
1		2110	255	0.	.0	23.0
1		2115	256	0.	.0	23.0
1		2120	257	0.	.0	23.0
1		2125	258	0.	.0	23.0
1		2130	259	0.	.0	23.0
1		2135	260	0.	.0	23.0
1		2140	261	0.	.0	23.0
1		2145	262	0.	.0	23.0
1		2150	263	0.	.0	23.0
1		2155	264	0.	.0	23.0
1		2200	265	0.	.0	23.0
1		2205	266	0.	.0	23.0
1		2210	267	0.	.0	23.0
1		2215	268	0.	.0	23.0
1		2220	269	0.	.0	23.0
1		2225	270	0.	.0	23.0
1		2230	271	0.	.0	23.0
1		2235	272	0.	.0	23.0
1		2240	273	0.	.0	23.0
1		2245	274	0.	.0	23.0
1		2250	275	0.	.0	23.0
1		2255	276	0.	.0	23.0
1		2300	277	0.	.0	23.0
1		2305	278	0.	.0	23.0
1		2310	279	0.	.0	23.0
1		2315	280	0.	.0	23.0
1		2320	281	0.	.0	23.0
1		2325	282	0.	.0	23.0
1		2330	283	0.	.0	23.0
1		2335	284	0.	.0	23.0
1		2340	285	0.	.0	23.0
1		2345	286	0.	.0	23.0
1		2350	287	0.	.0	23.0
1		2355	288	0.	.0	23.0
1		0000	289	0.	.0	23.0
1		0005	290	0.	.0	23.0
1		0010	291	0.	.0	23.0
1		0015	292	0.	.0	23.0
1		0020	293	0.	.0	23.0
1		0025	294	0.	.0	23.0
1		0030	295	0.	.0	23.0
1		0035	296	0.	.0	23.0
1		0040	297	0.	.0	23.0
1		0045	298	0.	.0	23.0
1		0050	299	0.	.0	23.0
1		0055	300	0.	.0	23.0

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 33.	7.17		31.	13.	13.	13.
		(INCHES)	.264	.460	.460	.460
		(AC-FT)	15.	26.	26.	26.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
14.	7.17	12.	4.	4.	4.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
+ 27.61	7.17	27.24	24.79	24.72	24.72

CUMULATIVE AREA = 1.08 SQ MI

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1	0610	75	51.	22.6	7.0	1	1430	175	3.	.0	.3	1	2250	275	0.	.0	.0
1	0615	76	51.	22.3	7.0	1	1435	176	2.	.0	.2	1	2255	276	0.	.0	.0
1	0620	77	51.	22.0	6.9	1	1440	177	1.	.0	.1	1	2300	277	0.	.0	.0
1	0625	78	51.	21.7	6.9	1	1445	178	1.	.0	.1	1	2305	278	0.	.0	.0
1	0630	79	50.	21.4	6.8	1	1450	179	1.	.0	.0	1	2310	279	0.	.0	.0
1	0635	80	50.	21.0	6.8	1	1455	180	0.	.0	.0	1	2315	280	0.	.0	.0
1	0640	81	50.	20.7	6.7	1	1500	181	0.	.0	.0	1	2320	281	0.	.0	.0
1	0645	82	49.	20.4	6.7	1	1505	182	0.	.0	.0	1	2325	282	0.	.0	.0
1	0650	83	49.	20.0	6.7	1	1510	183	0.	.0	.0	1	2330	283	0.	.0	.0
1	0655	84	49.	19.7	6.6	1	1515	184	0.	.0	.0	1	2335	284	0.	.0	.0
1	0700	85	49.	19.4	6.6	1	1520	185	0.	.0	.0	1	2340	285	0.	.0	.0
1	0705	86	48.	19.0	6.5	1	1525	186	0.	.0	.0	1	2345	286	0.	.0	.0
1	0710	87	48.	18.7	6.5	1	1530	187	0.	.0	.0	1	2350	287	0.	.0	.0
1	0715	88	48.	18.4	6.4	1	1535	188	0.	.0	.0	1	2355	288	0.	.0	.0
1	0720	89	48.	18.0	6.4	1	1540	189	0.	.0	.0	2	0000	289	0.	.0	.0
1	0725	90	47.	17.7	6.3	1	1545	190	0.	.0	.0	2	0005	290	0.	.0	.0
1	0730	91	47.	17.4	6.3	1	1550	191	0.	.0	.0	2	0010	291	0.	.0	.0
1	0735	92	47.	17.1	6.3	1	1555	192	0.	.0	.0	2	0015	292	0.	.0	.0
1	0740	93	47.	16.8	6.2	1	1600	193	0.	.0	.0	2	0020	293	0.	.0	.0
1	0745	94	46.	16.4	6.2	1	1605	194	0.	.0	.0	2	0025	294	0.	.0	.0
1	0750	95	46.	16.1	6.1	1	1610	195	0.	.0	.0	2	0030	295	0.	.0	.0
1	0755	96	46.	15.8	6.1	1	1615	196	0.	.0	.0	2	0035	296	0.	.0	.0
1	0800	97	45.	15.5	6.0	1	1620	197	0.	.0	.0	2	0040	297	0.	.0	.0
1	0805	98	45.	15.2	6.0	1	1625	198	0.	.0	.0	2	0045	298	0.	.0	.0
1	0810	99	45.	14.9	5.9	1	1630	199	0.	.0	.0	2	0050	299	0.	.0	.0
1	0815	100	44.	14.6	5.8	1	1635	200	0.	.0	.0	2	0055	300	0.	.0	.0

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)	(CFS)				
53.	5.33		47.	18.	18.	18.
		(INCHES)	1.119	1.737	1.737	1.737
		(AC-FT)	23.	36.	36.	36.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
(AC-FT)	(HR)				
25.	5.33	18.	5.	5.	5.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
(FEET)	(HR)				
7.27	5.33	6.28	2.28	2.20	2.20

CUMULATIVE AREA = .39 SQ MI

HYDROGRAPH AT STATION DET3
PLAN 1, RATIO = .98

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	.0	1		0820	101	42.	13.5	5.5	1		1640	201	0.	.0	.0
1		0005	2	0.	.0	.0	1		0825	102	42.	13.3	5.5	1		1645	202	0.	.0	.0
1		0010	3	0.	.0	.0	1		0830	103	41.	13.0	5.4	1		1650	203	0.	.0	.0
1		0015	4	0.	.0	.0	1		0835	104	41.	12.7	5.3	1		1655	204	0.	.0	.0
1		0020	5	0.	.0	.0	1		0840	105	40.	12.4	5.2	1		1700	205	0.	.0	.0
1		0025	6	1.	.0	.0	1		0845	106	40.	12.1	5.1	1		1705	206	0.	.0	.0
1		0030	7	1.	.0	.1	1		0850	107	39.	11.9	5.1	1		1710	207	0.	.0	.0
1		0035	8	2.	.0	.2	1		0855	108	39.	11.6	5.0	1		1715	208	0.	.0	.0
1		0040	9	2.	.0	.2	1		0900	109	38.	11.3	4.9	1		1720	209	0.	.0	.0
1		0045	10	3.	.0	.3	1		0905	110	38.	11.1	4.8	1		1725	210	0.	.0	.0
1		0050	11	3.	.0	.3	1		0910	111	38.	10.8	4.8	1		1730	211	0.	.0	.0
1		0055	12	3.	.0	.3	1		0915	112	37.	10.5	4.7	1		1735	212	0.	.0	.0
1		0100	13	2.	.0	.2	1		0920	113	37.	10.3	4.6	1		1740	213	0.	.0	.0
1		0105	14	2.	.0	.2	1		0925	114	36.	10.0	4.6	1		1745	214	0.	.0	.0
1		0110	15	2.	.0	.2	1		0930	115	36.	9.8	4.5	1		1750	215	0.	.0	.0
1		0115	16	2.	.0	.2	1		0935	116	35.	9.5	4.4	1		1755	216	0.	.0	.0
1		0120	17	2.	.0	.2	1		0940	117	35.	9.3	4.3	1		1800	217	0.	.0	.0
1		0125	18	2.	.0	.2	1		0945	118	35.	9.1	4.3	1		1805	218	0.	.0	.0
1		0130	19	3.	.1	.3	1		0950	119	34.	8.8	4.2	1		1810	219	0.	.0	.0
1		0135	20	5.	.1	.5	1		0955	120	34.	8.6	4.1	1		1815	220	0.	.0	.0
1		0140	21	7.	.1	.7	1		1000	121	33.	8.4	4.1	1		1820	221	0.	.0	.0
1		0145	22	9.	.1	.9	1		1005	122	33.	8.1	4.0	1		1825	222	0.	.0	.0
1		0150	23	10.	.2	1.0	1		1010	123	33.	7.9	4.0	1		1830	223	0.	.0	.0
1		0155	24	11.	.2	1.1	1		1015	124	32.	7.7	3.9	1		1835	224	0.	.0	.0
1		0200	25	11.	.2	1.1	1		1020	125	32.	7.5	3.8	1		1840	225	0.	.0	.0
1		0205	26	11.	.2	1.1	1		1025	126	31.	7.2	3.8	1		1845	226	0.	.0	.0
1		0210	27	11.	.2	1.1	1		1030	127	31.	7.0	3.7	1		1850	227	0.	.0	.0
1		0215	28	11.	.2	1.1	1		1035	128	31.	6.8	3.6	1		1855	228	0.	.0	.0
1		0220	29	11.	.3	1.1	1		1040	129	30.	6.6	3.6	1		1900	229	0.	.0	.0
1		0225	30	12.	.3	1.2	1		1045	130	30.	6.4	3.5	1		1905	230	0.	.0	.0
1		0230	31	13.	.4	1.2	1		1050	131	30.	6.2	3.5	1		1910	231	0.	.0	.0
1		0235	32	14.	.4	1.3	1		1055	132	29.	6.0	3.4	1		1915	232	0.	.0	.0
1		0240	33	15.	.5	1.4	1		1100	133	29.	5.8	3.4	1		1920	233	0.	.0	.0
1		0245	34	16.	.6	1.5	1		1105	134	29.	5.6	3.3	1		1925	234	0.	.0	.0
1		0250	35	16.	.7	1.6	1		1110	135	28.	5.4	3.2	1		1930	235	0.	.0	.0
1		0255	36	17.	.7	1.7	1		1115	136	28.	5.2	3.2	1		1935	236	0.	.0	.0
1		0300	37	18.	.8	1.8	1		1120	137	27.	5.0	3.1	1		1940	237	0.	.0	.0
1		0305	38	19.	.8	1.8	1		1125	138	27.	4.8	3.1	1		1945	238	0.	.0	.0
1		0310	39	20.	.9	1.9	1		1130	139	27.	4.6	3.0	1		1950	239	0.	.0	.0
1		0315	40	21.	1.1	2.0	1		1135	140	27.	4.5	3.0	1		1955	240	0.	.0	.0
1		0320	41	21.	1.5	2.1	1		1140	141	26.	4.3	2.9	1		2000	241	0.	.0	.0
1		0325	42	23.	2.2	2.3	1		1145	142	26.	4.1	2.9	1		2005	242	0.	.0	.0
1		0330	43	25.	3.4	2.7	1		1150	143	26.	3.9	2.8	1		2010	243	0.	.0	.0
1		0335	44	28.	5.1	3.2	1		1155	144	25.	3.7	2.8	1		2015	244	0.	.0	.0
1		0340	45	32.	7.4	3.8	1		1200	145	25.	3.6	2.7	1		2020	245	0.	.0	.0
1		0345	46	36.	9.8	4.5	1		1205	146	25.	3.4	2.7	1		2025	246	0.	.0	.0
1		0350	47	40.	12.3	5.2	1		1210	147	24.	3.2	2.6	1		2030	247	0.	.0	.0
1		0355	48	44.	14.4	5.8	1		1215	148	24.	3.1	2.6	1		2035	248	0.	.0	.0
1		0400	49	46.	16.2	6.1	1		1220	149	24.	2.9	2.5	1		2040	249	0.	.0	.0
1		0405	50	47.	17.6	6.3	1		1225	150	24.	2.7	2.5	1		2045	250	0.	.0	.0
1		0410	51	48.	18.7	6.5	1		1230	151	23.	2.6	2.4	1		2050	251	0.	.0	.0
1		0415	52	49.	19.6	6.6	1		1235	152	23.	2.4	2.4	1		2055	252	0.	.0	.0
1		0420	53	49.	20.1	6.7	1		1240	153	23.	2.3	2.4	1		2100	253	0.	.0	.0
1		0425	54	50.	20.6	6.7	1		1245	154	22.	2.1	2.3	1		2105	254	0.	.0	.0
1		0430	55	50.	20.9	6.8	1		1250	155	22.	1.9	2.3	1		2110	255	0.	.0	.0
1		0435	56	50.	21.2	6.8	1		1255	156	22.	1.8	2.2	1		2115	256	0.	.0	.0
1		0440	57	50.	21.5	6.8	1		1300	157	22.	1.6	2.2	1		2120	257	0.	.0	.0
1		0445	58	51.	21.8	6.9	1		1305	158	21.	1.5	2.1	1		2125	258	0.	.0	.0
1		0450	59	51.	22.2	6.9	1		1310	159	21.	1.4	2.1	1		2130	259	0.	.0	.0
1		0455	60	51.	22.6	7.0	1		1315	160	21.	1.2	2.1	1		2135	260	0.	.0	.0
1		0500	61	52.	22.9	7.0	1		1320	161	21.	1.1	2.0	1		2140	261	0.	.0	.0
1		0505	62	52.	23.3	7.1	1		1325	162	20.	.9	1.9	1		2145	262	0.	.0	.0
1		0510	63	52.	23.5	7.1	1		1330	163	18.	.8	1.8	1		2150	263	0.	.0	.0
1		0515	64	52.	23.7	7.1	1		1335	164	17.	.7	1.6	1		2155	264	0.	.0	.0
1		0520	65	52.	23.8	7.2	1		1340	165	15.	.6	1.5	1		2200	265	0.	.0	.0
1		0525	66	52.	23.7	7.1	1		1345	166	14.	.5	1.4	1		2205	266	0.	.0	.0
1		0530	67	52.	23.6	7.1	1		1350	167	13.	.4	1.3	1		2210	267	0.	.0	.0
1		0535	68	52.	23.5	7.1	1		1355	168	12.	.3	1.1	1		2215	268	0.	.0	.0
1		0540	69	52.	23.3	7.1	1		1400	169	11.	.2	1.1	1		2220	269	0.	.0	.0
1		0545	70	52.	23.1	7.1	1		1405	170	9.	.1	.9	1		2225	270	0.	.0	.0
1		0550	71	52.	22.8	7.0	1		1410	171	6.	.1	.6	1		2230	271	0.	.0	.0
1		0555	72	51.	22.6	7.0	1		1415	172	4.	.1	.4	1		2235	272	0.	.0	.0
1		0600	73	51.	22.3	7.0	1		1420	173	2.	.0	.2	1		2240	273	0.	.0	.0
1		0605	74	51.	22.1	6.9	1		1425	174	2.	.0	.2	1		2245	274	0.	.0	.0
1		0610	75	51.	21.8	6.9	1		1430	175	1.	.0	.1	1		2250	275	0.	.0	.0
1		0615	76	50.	21.5	6.8	1		1435	176	1.	.0	.1	1		2255	276	0.	.0	.0
1		0620	77	50.	21.2	6.8	1		1440	177	0.	.0	.0	1		2300	277	0.	.0	.0
1		0625	78	50.	20.9	6.8	1		1445	178	0.	.0	.0	1		2305	278	0.	.0	.0

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0630	79	50.	20.5	6.7	1		1450	179	0.	.0	.0	1		2310	279	0.	.0	.0
1		0635	80	49.	20.2	6.7	1		1455	180	0.	.0	.0	1		2315	280	0.	.0	.0
1		0640	81	49.	19.9	6.6	1		1500	181	0.	.0	.0	1		2320	281	0.	.0	.0
1		0645	82	49.	19.6	6.6	1		1505	182	0.	.0	.0	1		2325	282	0.	.0	.0
1		0650	83	49.	19.2	6.5	1		1510	183	0.	.0	.0	1		2330	283	0.	.0	.0
1		0655	84	48.	18.9	6.5	1		1515	184	0.	.0	.0	1		2335	284	0.	.0	.0
1		0700	85	48.	18.6	6.5	1		1520	185	0.	.0	.0	1		2340	285	0.	.0	.0
1		0705	86	48.	18.2	6.4	1		1525	186	0.	.0	.0	1		2345	286	0.	.0	.0
1		0710	87	47.	17.9	6.4	1		1530	187	0.	.0	.0	1		2350	287	0.	.0	.0
1		0715	88	47.	17.6	6.3	1		1535	188	0.	.0	.0	1		2355	288	0.	.0	.0
1		0720	89	47.	17.3	6.3	1		1540	189	0.	.0	.0	2		0000	289	0.	.0	.0
1		0725	90	47.	16.9	6.2	1		1545	190	0.	.0	.0	2		0005	290	0.	.0	.0
1		0730	91	46.	16.6	6.2	1		1550	191	0.	.0	.0	2		0010	291	0.	.0	.0
1		0735	92	46.	16.3	6.2	1		1555	192	0.	.0	.0	2		0015	292	0.	.0	.0
1		0740	93	46.	16.0	6.1	1		1600	193	0.	.0	.0	2		0020	293	0.	.0	.0
1		0745	94	46.	15.7	6.1	1		1605	194	0.	.0	.0	2		0025	294	0.	.0	.0
1		0750	95	45.	15.4	6.0	1		1610	195	0.	.0	.0	2		0030	295	0.	.0	.0
1		0755	96	45.	15.0	6.0	1		1615	196	0.	.0	.0	2		0035	296	0.	.0	.0
1		0800	97	44.	14.7	5.9	1		1620	197	0.	.0	.0	2		0040	297	0.	.0	.0
1		0805	98	44.	14.4	5.8	1		1625	198	0.	.0	.0	2		0045	298	0.	.0	.0
1		0810	99	43.	14.1	5.7	1		1630	199	0.	.0	.0	2		0050	299	0.	.0	.0
1		0815	100	43.	13.8	5.6	1		1635	200	0.	.0	.0	2		0055	300	0.	.0	.0

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)	(CFS)				
+ 52.	5.33		46.	18.	17.	17.
		(INCHES)	1.100	1.685	1.685	1.685
		(AC-FT)	23.	35.	35.	35.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
+ 24.	5.33	17.	5.	5.	5.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
+ 7.15	5.33	6.15	2.21	2.13	2.13

CUMULATIVE AREA = .39 SQ MI

HYDROGRAPH AT STATION DET3
PLAN 1, RATIO = .97

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	.0	1		0820	101	42.	13.2	5.4	1		1640	201	0.	.0	.0
1		0005	2	0.	.0	.0	1		0825	102	41.	12.9	5.4	1		1645	202	0.	.0	.0
1		0010	3	0.	.0	.0	1		0830	103	41.	12.6	5.3	1		1650	203	0.	.0	.0
1		0015	4	0.	.0	.0	1		0835	104	40.	12.3	5.2	1		1655	204	0.	.0	.0
1		0020	5	0.	.0	.0	1		0840	105	40.	12.1	5.1	1		1700	205	0.	.0	.0
1		0025	6	0.	.0	.0	1		0845	106	39.	11.8	5.1	1		1705	206	0.	.0	.0
1		0030	7	1.	.0	.1	1		0850	107	39.	11.5	5.0	1		1710	207	0.	.0	.0
1		0035	8	2.	.0	.2	1		0855	108	38.	11.3	4.9	1		1715	208	0.	.0	.0
1		0040	9	2.	.0	.2	1		0900	109	38.	11.0	4.8	1		1720	209	0.	.0	.0
1		0045	10	3.	.0	.3	1		0905	110	37.	10.7	4.8	1		1725	210	0.	.0	.0
1		0050	11	3.	.0	.3	1		0910	111	37.	10.5	4.7	1		1730	211	0.	.0	.0
1		0055	12	3.	.0	.2	1		0915	112	37.	10.2	4.6	1		1735	212	0.	.0	.0
1		0100	13	2.	.0	.2	1		0920	113	36.	10.0	4.5	1		1740	213	0.	.0	.0
1		0105	14	2.	.0	.2	1		0925	114	36.	9.7	4.5	1		1745	214	0.	.0	.0
1		0110	15	1.	.0	.1	1		0930	115	35.	9.5	4.4	1		1750	215	0.	.0	.0
1		0115	16	1.	.0	.1	1		0935	116	35.	9.2	4.3	1		1755	216	0.	.0	.0
1		0120	17	2.	.0	.2	1		0940	117	34.	9.0	4.3	1		1800	217	0.	.0	.0
1		0125	18	2.	.0	.2	1		0945	118	34.	8.8	4.2	1		1805	218	0.	.0	.0
1		0130	19	3.	.1	.3	1		0950	119	34.	8.5	4.1	1		1810	219	0.	.0	.0
1		0135	20	4.	.1	.4	1		0955	120	33.	8.3	4.1	1		1815	220	0.	.0	.0
1		0140	21	6.	.1	.6	1		1000	121	33.	8.1	4.0	1		1820	221	0.	.0	.0
1		0145	22	9.	.1	.8	1		1005	122	32.	7.9	3.9	1		1825	222	0.	.0	.0
1		0150	23	10.	.2	1.0	1		1010	123	32.	7.6	3.9	1		1830	223	0.	.0	.0
1		0155	24	11.	.2	1.0	1		1015	124	32.	7.4	3.8	1		1835	224	0.	.0	.0
1		0200	25	11.	.2	1.1	1		1020	125	31.	7.2	3.8	1		1840	225	0.	.0	.0
1		0205	26	11.	.2	1.1	1		1025	126	31.	7.0	3.7	1		1845	226	0.	.0	.0
1		0210	27	11.	.2	1.1	1		1030	127	31.	6.8	3.6	1		1850	227	0.	.0	.0
1		0215	28	11.	.2	1.1	1		1035	128	30.	6.6	3.6	1		1855	228	0.	.0	.0
1		0220	29	11.	.2	1.1	1		1040	129	30.	6.4	3.5	1		1900	229	0.	.0	.0
1		0225	30	12.	.3	1.1	1		1045	130	29.	6.1	3.5	1		1905	230	0.	.0	.0
1		0230	31	13.	.3	1.2	1		1050	131	29.	5.9	3.4	1		1910	231	0.	.0	.0
1		0235	32	13.	.4	1.3	1		1055	132	29.	5.7	3.3	1		1915	232	0.	.0	.0
1		0240	33	14.	.5	1.4	1		1100	133	28.	5.5	3.3	1		1920	233	0.	.0	.0
1		0245	34	15.	.6	1.5	1		1105	134	28.	5.4	3.2	1		1925	234	0.	.0	.0
1		0250	35	16.	.6	1.6	1		1110	135	28.	5.2	3.2	1		1930	235	0.	.0	.0
1		0255	36	17.	.7	1.7	1		1115	136	27.	5.0	3.1	1		1935	236	0.	.0	.0
1		0300	37	18.	.8	1.7	1		1120	137	27.	4.8	3.1	1		1940	237	0.	.0	.0
1		0305	38	18.	.8	1.8	1		1125	138	27.	4.6	3.0	1		1945	238	0.	.0	.0
1		0310	39	20.	.9	1.9	1		1130	139	26.	4.4	3.0	1		1950	239	0.	.0	.0
1		0315	40	21.	1.1	2.0	1		1135	140	26.	4.2	2.9	1		1955	240	0.	.0	.0
1		0320	41	21.	1.4	2.1	1		1140	141	26.	4.1	2.9	1		2000	241	0.	.0	.0
1		0325	42	22.	2.1	2.3	1		1145	142	26.	3.9	2.8	1		2005	242	0.	.0	.0
1		0330	43	25.	3.3	2.7	1		1150	143	25.	3.7	2.8	1		2010	243	0.	.0	.0
1		0335	44	28.	5.0	3.1	1		1155	144	25.	3.5	2.7	1		2015	244	0.	.0	.0
1		0340	45	31.	7.2	3.8	1		1200	145	25.	3.4	2.7	1		2020	245	0.	.0	.0
1		0345	46	36.	9.6	4.4	1		1205	146	24.	3.2	2.6	1		2025	246	0.	.0	.0
1		0350	47	40.	12.0	5.1	1		1210	147	24.	3.0	2.6	1		2030	247	0.	.0	.0
1		0355	48	43.	14.2	5.7	1		1215	148	24.	2.9	2.5	1		2035	248	0.	.0	.0
1		0400	49	46.	15.9	6.1	1		1220	149	23.	2.7	2.5	1		2040	249	0.	.0	.0
1		0405	50	47.	17.3	6.3	1		1225	150	23.	2.5	2.4	1		2045	250	0.	.0	.0
1		0410	51	48.	18.4	6.4	1		1230	151	23.	2.4	2.4	1		2050	251	0.	.0	.0
1		0415	52	49.	19.2	6.5	1		1235	152	23.	2.2	2.4	1		2055	252	0.	.0	.0
1		0420	53	49.	19.8	6.6	1		1240	153	22.	2.1	2.3	1		2100	253	0.	.0	.0
1		0425	54	49.	20.2	6.7	1		1245	154	22.	1.9	2.3	1		2105	254	0.	.0	.0
1		0430	55	50.	20.5	6.7	1		1250	155	22.	1.8	2.2	1		2110	255	0.	.0	.0
1		0435	56	50.	20.8	6.8	1		1255	156	22.	1.6	2.2	1		2115	256	0.	.0	.0
1		0440	57	50.	21.1	6.8	1		1300	157	21.	1.5	2.1	1		2120	257	0.	.0	.0
1		0445	58	50.	21.4	6.8	1		1305	158	21.	1.3	2.1	1		2125	258	0.	.0	.0
1		0450	59	51.	21.8	6.9	1		1310	159	21.	1.2	2.1	1		2130	259	0.	.0	.0
1		0455	60	51.	22.2	6.9	1		1315	160	21.	1.0	2.0	1		2135	260	0.	.0	.0
1		0500	61	51.	22.5	7.0	1		1320	161	19.	.9	1.9	1		2140	261	0.	.0	.0
1		0505	62	52.	22.8	7.0	1		1325	162	18.	.8	1.7	1		2145	262	0.	.0	.0
1		0510	63	52.	23.1	7.1	1		1330	163	16.	.6	1.6	1		2150	263	0.	.0	.0
1		0515	64	52.	23.3	7.1	1		1335	164	15.	.5	1.5	1		2155	264	0.	.0	.0
1		0520	65	52.	23.3	7.1	1		1340	165	14.	.4	1.3	1		2200	265	0.	.0	.0
1		0525	66	52.	23.3	7.1	1		1345	166	13.	.4	1.2	1		2205	266	0.	.0	.0
1		0530	67	52.	23.2	7.1	1		1350	167	12.	.3	1.1	1		2210	267	0.	.0	.0
1		0535	68	52.	23.1	7.1	1		1355	168	11.	.2	1.0	1		2215	268	0.	.0	.0
1		0540	69	52.	22.9	7.0	1		1400	169	8.	.1	.8	1		2220	269	0.	.0	.0
1		0545	70	51.	22.7	7.0	1		1405	170	5.	.1	.5	1		2225	270	0.	.0	.0
1		0550	71	51.	22.4	7.0	1		1410	171	3.	.1	.3	1		2230	271	0.	.0	.0
1		0555	72	51.	22.2	6.9	1		1415	172	2.	.0	.2	1		2235	272	0.	.0	.0
1		0600	73	51.	21.9	6.9	1		1420	173	1.	.0	.1	1		2240	273	0.	.0	.0
1		0605	74	51.	21.6	6.9	1		1425	174	1.	.0	.1	1		2245	274	0.	.0	.0
1		0610	75	50.	21.4	6.8	1		1430	175	1.	.0	.1	1		2250	275	0.	.0	.0
1		0615	76	50.	21.1	6.8	1		1435	176	0.	.0	.0	1		2255	276	0.	.0	.0
1		0620	77	50.	20.8	6.8	1		1440	177	0.	.0	.0	1		2300	277	0.	.0	.0
1		0625	78	50.	20.4	6.7	1		1445	178	0.	.0	.0	1		2305	278	0.	.0	.0
1		0630	79	49.	20.1	6.7	1		1450	179	0.	.0	.0	1		2310	279	0.	.0	.0
1		0635	80	49.	19.8	6.6	1		1455	180	0.	.0	.0	1		2315	280	0.	.0	.0
1		0640	81	49.	19.5	6.6	1		1500	181	0.	.0	.0	1		2320	281	0.	.0	.0
1		0645	82	48.	19.2	6.5	1		1505	182	0.	.0	.0	1		2325	282	0.	.0	.0

1	0650	83	48.	18.8	6.5	1	1510	183	0.	.0	.0	1	2330	283	0.	.0	.0
1	0655	84	48.	18.5	6.4	1	1515	184	0.	.0	.0	1	2335	284	0.	.0	.0
1	0700	85	48.	18.2	6.4	1	1520	185	0.	.0	.0	1	2340	285	0.	.0	.0
1	0705	86	47.	17.8	6.4	1	1525	186	0.	.0	.0	1	2345	286	0.	.0	.0
1	0710	87	47.	17.5	6.3	1	1530	187	0.	.0	.0	1	2350	287	0.	.0	.0
1	0715	88	47.	17.2	6.3	1	1535	188	0.	.0	.0	1	2355	288	0.	.0	.0
1	0720	89	47.	16.9	6.2	1	1540	189	0.	.0	.0	2	0000	289	0.	.0	.0
1	0725	90	46.	16.6	6.2	1	1545	190	0.	.0	.0	2	0005	290	0.	.0	.0
1	0730	91	46.	16.2	6.1	1	1550	191	0.	.0	.0	2	0010	291	0.	.0	.0
1	0735	92	46.	15.9	6.1	1	1555	192	0.	.0	.0	2	0015	292	0.	.0	.0
1	0740	93	46.	15.6	6.1	1	1600	193	0.	.0	.0	2	0020	293	0.	.0	.0
1	0745	94	45.	15.3	6.0	1	1605	194	0.	.0	.0	2	0025	294	0.	.0	.0
1	0750	95	45.	15.0	6.0	1	1610	195	0.	.0	.0	2	0030	295	0.	.0	.0
1	0755	96	44.	14.7	5.9	1	1615	196	0.	.0	.0	2	0035	296	0.	.0	.0
1	0800	97	44.	14.4	5.8	1	1620	197	0.	.0	.0	2	0040	297	0.	.0	.0
1	0805	98	43.	14.1	5.7	1	1625	198	0.	.0	.0	2	0045	298	0.	.0	.0
1	0810	99	43.	13.8	5.6	1	1630	199	0.	.0	.0	2	0050	299	0.	.0	.0
1	0815	100	42.	13.5	5.5	1	1635	200	0.	.0	.0	2	0055	300	0.	.0	.0

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)					
		(CFS)				
52.	5.33		46.	17.	17.	17.
		(INCHES)	1.090	1.659	1.659	1.659
		(AC-FT)	23.	35.	35.	35.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
(AC-FT)	(HR)				
23.	5.33	17.	5.	5.	5.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
(FEET)	(HR)				
7.10	5.33	6.09	2.17	2.09	2.09

CUMULATIVE AREA = .39 SQ MI

HYDROGRAPH AT STATION DET3
PLAN 1, RATIO = .93

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	.0	1		0820	101	39.	11.8	5.1	1		1640	201	0.	.0	.0
1		0005	2	0.	.0	.0	1		0825	102	39.	11.6	5.0	1		1645	202	0.	.0	.0
1		0010	3	0.	.0	.0	1		0830	103	38.	11.3	4.9	1		1650	203	0.	.0	.0
1		0015	4	0.	.0	.0	1		0835	104	38.	11.0	4.8	1		1655	204	0.	.0	.0
1		0020	5	0.	.0	.0	1		0840	105	38.	10.8	4.8	1		1700	205	0.	.0	.0
1		0025	6	0.	.0	.0	1		0845	106	37.	10.5	4.7	1		1705	206	0.	.0	.0
1		0030	7	1.	.0	.1	1		0850	107	37.	10.3	4.6	1		1710	207	0.	.0	.0
1		0035	8	2.	.0	.1	1		0855	108	36.	10.0	4.5	1		1715	208	0.	.0	.0
1		0040	9	2.	.0	.2	1		0900	109	36.	9.8	4.5	1		1720	209	0.	.0	.0
1		0045	10	2.	.0	.2	1		0905	110	35.	9.5	4.4	1		1725	210	0.	.0	.0
1		0050	11	2.	.0	.2	1		0910	111	35.	9.3	4.3	1		1730	211	0.	.0	.0
1		0055	12	2.	.0	.2	1		0915	112	35.	9.0	4.3	1		1735	212	0.	.0	.0
1		0100	13	2.	.0	.2	1		0920	113	34.	8.8	4.2	1		1740	213	0.	.0	.0
1		0105	14	1.	.0	.1	1		0925	114	34.	8.6	4.1	1		1745	214	0.	.0	.0
1		0110	15	1.	.0	.1	1		0930	115	33.	8.3	4.1	1		1750	215	0.	.0	.0
1		0115	16	1.	.0	.1	1		0935	116	33.	8.1	4.0	1		1755	216	0.	.0	.0
1		0120	17	1.	.0	.1	1		0940	117	32.	7.9	3.9	1		1800	217	0.	.0	.0
1		0125	18	2.	.0	.2	1		0945	118	32.	7.7	3.9	1		1805	218	0.	.0	.0
1		0130	19	3.	.0	.3	1		0950	119	32.	7.4	3.8	1		1810	219	0.	.0	.0
1		0135	20	4.	.1	.4	1		0955	120	31.	7.2	3.8	1		1815	220	0.	.0	.0
1		0140	21	6.	.1	.5	1		1000	121	31.	7.0	3.7	1		1820	221	0.	.0	.0
1		0145	22	7.	.1	.7	1		1005	122	31.	6.8	3.6	1		1825	222	0.	.0	.0
1		0150	23	9.	.2	.9	1		1010	123	30.	6.6	3.6	1		1830	223	0.	.0	.0
1		0155	24	10.	.2	1.0	1		1015	124	30.	6.4	3.5	1		1835	224	0.	.0	.0
1		0200	25	10.	.2	1.0	1		1020	125	30.	6.2	3.5	1		1840	225	0.	.0	.0
1		0205	26	10.	.2	1.0	1		1025	126	29.	6.0	3.4	1		1845	226	0.	.0	.0
1		0210	27	10.	.2	1.0	1		1030	127	29.	5.8	3.4	1		1850	227	0.	.0	.0
1		0215	28	10.	.2	1.0	1		1035	128	28.	5.6	3.3	1		1855	228	0.	.0	.0
1		0220	29	10.	.2	1.0	1		1040	129	28.	5.4	3.2	1		1900	229	0.	.0	.0
1		0225	30	11.	.2	1.1	1		1045	130	28.	5.2	3.2	1		1905	230	0.	.0	.0
1		0230	31	12.	.3	1.1	1		1050	131	27.	5.0	3.1	1		1910	231	0.	.0	.0
1		0235	32	12.	.3	1.2	1		1055	132	27.	4.8	3.1	1		1915	232	0.	.0	.0
1		0240	33	13.	.4	1.3	1		1100	133	27.	4.6	3.0	1		1920	233	0.	.0	.0
1		0245	34	14.	.5	1.4	1		1105	134	26.	4.4	3.0	1		1925	234	0.	.0	.0
1		0250	35	15.	.5	1.4	1		1110	135	26.	4.3	2.9	1		1930	235	0.	.0	.0
1		0255	36	16.	.6	1.5	1		1115	136	26.	4.1	2.9	1		1935	236	0.	.0	.0
1		0300	37	16.	.6	1.6	1		1120	137	26.	3.9	2.8	1		1940	237	0.	.0	.0
1		0305	38	17.	.7	1.6	1		1125	138	25.	3.7	2.8	1		1945	238	0.	.0	.0
1		0310	39	18.	.8	1.7	1		1130	139	25.	3.5	2.7	1		1950	239	0.	.0	.0
1		0315	40	20.	.9	1.9	1		1135	140	25.	3.4	2.7	1		1955	240	0.	.0	.0
1		0320	41	21.	1.3	2.1	1		1140	141	24.	3.2	2.6	1		2000	241	0.	.0	.0
1		0325	42	22.	1.9	2.3	1		1145	142	24.	3.0	2.6	1		2005	242	0.	.0	.0
1		0330	43	24.	3.0	2.6	1		1150	143	24.	2.9	2.5	1		2010	243	0.	.0	.0
1		0335	44	27.	4.6	3.0	1		1155	144	23.	2.7	2.5	1		2015	244	0.	.0	.0
1		0340	45	30.	6.6	3.6	1		1200	145	23.	2.6	2.4	1		2020	245	0.	.0	.0
1		0345	46	34.	8.9	4.2	1		1205	146	23.	2.4	2.4	1		2025	246	0.	.0	.0
1		0350	47	38.	11.1	4.9	1		1210	147	23.	2.2	2.4	1		2030	247	0.	.0	.0
1		0355	48	42.	13.1	5.4	1		1215	148	22.	2.1	2.3	1		2035	248	0.	.0	.0
1		0400	49	45.	14.8	5.9	1		1220	149	22.	1.9	2.3	1		2040	249	0.	.0	.0
1		0405	50	46.	16.1	6.1	1		1225	150	22.	1.8	2.2	1		2045	250	0.	.0	.0
1		0410	51	47.	17.1	6.3	1		1230	151	22.	1.6	2.2	1		2050	251	0.	.0	.0
1		0415	52	47.	17.9	6.4	1		1235	152	21.	1.5	2.1	1		2055	252	0.	.0	.0
1		0420	53	48.	18.4	6.4	1		1240	153	21.	1.3	2.1	1		2100	253	0.	.0	.0
1		0425	54	48.	18.8	6.5	1		1245	154	21.	1.2	2.1	1		2105	254	0.	.0	.0
1		0430	55	48.	19.1	6.5	1		1250	155	21.	1.0	2.0	1		2110	255	0.	.0	.0
1		0435	56	49.	19.3	6.6	1		1255	156	20.	.9	1.9	1		2115	256	0.	.0	.0
1		0440	57	49.	19.6	6.6	1		1300	157	18.	.8	1.8	1		2120	257	0.	.0	.0
1		0445	58	49.	19.9	6.6	1		1305	158	16.	.7	1.6	1		2125	258	0.	.0	.0
1		0450	59	49.	20.2	6.7	1		1310	159	15.	.6	1.5	1		2130	259	0.	.0	.0
1		0455	60	50.	20.6	6.7	1		1315	160	14.	.5	1.4	1		2135	260	0.	.0	.0
1		0500	61	50.	20.9	6.8	1		1320	161	13.	.4	1.2	1		2140	261	0.	.0	.0
1		0505	62	50.	21.2	6.8	1		1325	162	12.	.3	1.1	1		2145	262	0.	.0	.0
1		0510	63	50.	21.4	6.8	1		1330	163	11.	.2	1.0	1		2150	263	0.	.0	.0
1		0515	64	51.	21.6	6.9	1		1335	164	8.	.1	.8	1		2155	264	0.	.0	.0
1		0520	65	51.	21.6	6.9	1		1340	165	5.	.1	.5	1		2200	265	0.	.0	.0
1		0525	66	51.	21.6	6.9	1		1345	166	4.	.1	.3	1		2205	266	0.	.0	.0
1		0530	67	50.	21.5	6.9	1		1350	167	2.	.0	.2	1		2210	267	0.	.0	.0
1		0535	68	50.	21.4	6.8	1		1355	168	1.	.0	.1	1		2215	268	0.	.0	.0
1		0540	69	50.	21.2	6.8	1		1400	169	1.	.0	.1	1		2220	269	0.	.0	.0
1		0545	70	50.	21.0	6.8	1		1405	170	1.	.0	.1	1		2225	270	0.	.0	.0
1		0550	71	50.	20.7	6.7	1		1410	171	0.	.0	.0	1		2230	271	0.	.0	.0
1		0555	72	50.	20.5	6.7	1		1415	172	0.	.0	.0	1		2235	272	0.	.0	.0
1		0600	73	49.	20.2	6.7	1		1420	173	0.	.0	.0	1		2240	273	0.	.0	.0
1		0605	74	49.	20.0	6.6	1		1425	174	0.	.0	.0	1		2245	274	0.	.0	.0
1		0610	75	49.	19.7	6.6	1		1430	175	0.	.0	.0	1		2250	275	0.	.0	.0
1		0615	76	49.	19.4	6.6	1		1435	176	0.	.0	.0	1		2255	276	0.	.0	.0
1		0620	77	48.	19.1	6.5	1		1440	177	0.	.0	.0	1		2300	277	0.	.0	.0
1		0625	78	48.	18.8	6.5	1		1445	178	0.	.0	.0	1		2305	278	0.	.0	.0
1		0630	79	48.	18.5	6.4	1		1450	179	0.	.0	.0	1		2310	279	0.	.0	.0
1		0635	80	48.	18.2	6.4	1		1455	180	0.	.0	.0	1		2315	280	0.	.0	.0
1		0640	81	47.	17.9	6.4	1		1500	181	0.	.0	.0	1		2320	281	0.	.0	.0
1		0645	82	47.	17.5	6.3	1		1505	182	0.	.0	.0	1		2325	282	0.	.0	.0
1		0650	83	47.	17.2	6.3	1		1510	183	0.	.0	.0	1		2330	283	0.	.0	.0
1		0655	84	47.	16.9	6.2	1		1515	184	0.	.0	.0	1		2335	284	0.	.0	.0
1		0700	85	46.	16.6	6.2	1		1520	185	0.	.0	.0	1		2340	285	0.	.0	.0
1		0705	86	46.	16.3	6.2	1		1525	186	0.	.0	.0	1		2345	286	0.	.0	.0

1	0710	87	46.	15.9	6.1	*	1	1530	187	0.	.0	.0	*	1	2350	287	0.	.0	.0
1	0715	88	46.	15.6	6.1	*	1	1535	188	0.	.0	.0	*	1	2355	288	0.	.0	.0
1	0720	89	45.	15.3	6.0	*	1	1540	189	0.	.0	.0	*	2	0000	289	0.	.0	.0
1	0725	90	45.	15.0	6.0	*	1	1545	190	0.	.0	.0	*	2	0005	290	0.	.0	.0
1	0730	91	44.	14.7	5.9	*	1	1550	191	0.	.0	.0	*	2	0010	291	0.	.0	.0
1	0735	92	44.	14.4	5.8	*	1	1555	192	0.	.0	.0	*	2	0015	292	0.	.0	.0
1	0740	93	43.	14.1	5.7	*	1	1600	193	0.	.0	.0	*	2	0020	293	0.	.0	.0
1	0745	94	43.	13.8	5.6	*	1	1605	194	0.	.0	.0	*	2	0025	294	0.	.0	.0
1	0750	95	42.	13.5	5.5	*	1	1610	195	0.	.0	.0	*	2	0030	295	0.	.0	.0
1	0755	96	42.	13.2	5.5	*	1	1615	196	0.	.0	.0	*	2	0035	296	0.	.0	.0
1	0800	97	41.	12.9	5.4	*	1	1620	197	0.	.0	.0	*	2	0040	297	0.	.0	.0
1	0805	98	41.	12.7	5.3	*	1	1625	198	0.	.0	.0	*	2	0045	298	0.	.0	.0
1	0810	99	40.	12.4	5.2	*	1	1630	199	0.	.0	.0	*	2	0050	299	0.	.0	.0
1	0815	100	40.	12.1	5.1	*	1	1635	200	0.	.0	.0	*	2	0055	300	0.	.0	.0

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 51.	5.33		44.	16.	16.	16.
		(INCHES)	1.050	1.555	1.555	1.555
		(AC-FT)	22.	32.	32.	32.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
22.	5.33	16.	5.	4.	4.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
6.87	5.33	5.82	2.02	1.95	1.95

CUMULATIVE AREA = .39 SQ MI

HYDROGRAPH AT STATION DET3
PLAN 1, RATIO = .91

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	.0	1		0820	101	38.	11.2	4.9	1		1640	201	0.	.0	.0
1		0005	2	0.	.0	.0	1		0825	102	38.	10.9	4.8	1		1645	202	0.	.0	.0
1		0010	3	0.	.0	.0	1		0830	103	37.	10.6	4.7	1		1650	203	0.	.0	.0
1		0015	4	0.	.0	.0	1		0835	104	37.	10.4	4.7	1		1655	204	0.	.0	.0
1		0020	5	0.	.0	.0	1		0840	105	36.	10.1	4.6	1		1700	205	0.	.0	.0
1		0025	6	0.	.0	.0	1		0845	106	36.	9.9	4.5	1		1705	206	0.	.0	.0
1		0030	7	1.	.0	.1	1		0850	107	36.	9.6	4.4	1		1710	207	0.	.0	.0
1		0035	8	1.	.0	.1	1		0855	108	35.	9.4	4.4	1		1715	208	0.	.0	.0
1		0040	9	2.	.0	.2	1		0900	109	35.	9.2	4.3	1		1720	209	0.	.0	.0
1		0045	10	2.	.0	.2	1		0905	110	34.	8.9	4.2	1		1725	210	0.	.0	.0
1		0050	11	2.	.0	.2	1		0910	111	34.	8.7	4.2	1		1730	211	0.	.0	.0
1		0055	12	2.	.0	.2	1		0915	112	33.	8.4	4.1	1		1735	212	0.	.0	.0
1		0100	13	1.	.0	.1	1		0920	113	33.	8.2	4.0	1		1740	213	0.	.0	.0
1		0105	14	1.	.0	.1	1		0925	114	33.	8.0	4.0	1		1745	214	0.	.0	.0
1		0110	15	1.	.0	.1	1		0930	115	32.	7.8	3.9	1		1750	215	0.	.0	.0
1		0115	16	1.	.0	.1	1		0935	116	32.	7.5	3.9	1		1755	216	0.	.0	.0
1		0120	17	1.	.0	.1	1		0940	117	32.	7.3	3.8	1		1800	217	0.	.0	.0
1		0125	18	2.	.0	.2	1		0945	118	31.	7.1	3.7	1		1805	218	0.	.0	.0
1		0130	19	2.	.0	.2	1		0950	119	31.	6.9	3.7	1		1810	219	0.	.0	.0
1		0135	20	3.	.1	.3	1		0955	120	30.	6.7	3.6	1		1815	220	0.	.0	.0
1		0140	21	5.	.1	.5	1		1000	121	30.	6.5	3.6	1		1820	221	0.	.0	.0
1		0145	22	7.	.1	.7	1		1005	122	30.	6.3	3.5	1		1825	222	0.	.0	.0
1		0150	23	9.	.1	.8	1		1010	123	29.	6.1	3.4	1		1830	223	0.	.0	.0
1		0155	24	10.	.2	1.0	1		1015	124	29.	5.9	3.4	1		1835	224	0.	.0	.0
1		0200	25	10.	.2	1.0	1		1020	125	29.	5.7	3.3	1		1840	225	0.	.0	.0
1		0205	26	10.	.2	1.0	1		1025	126	28.	5.5	3.3	1		1845	226	0.	.0	.0
1		0210	27	10.	.2	.9	1		1030	127	28.	5.3	3.2	1		1850	227	0.	.0	.0
1		0215	28	9.	.2	.9	1		1035	128	28.	5.1	3.2	1		1855	228	0.	.0	.0
1		0220	29	10.	.2	1.0	1		1040	129	27.	4.9	3.1	1		1900	229	0.	.0	.0
1		0225	30	11.	.2	1.0	1		1045	130	27.	4.7	3.1	1		1905	230	0.	.0	.0
1		0230	31	11.	.2	1.1	1		1050	131	27.	4.5	3.0	1		1910	231	0.	.0	.0
1		0235	32	12.	.3	1.2	1		1055	132	26.	4.3	3.0	1		1915	232	0.	.0	.0
1		0240	33	13.	.4	1.2	1		1100	133	26.	4.2	2.9	1		1920	233	0.	.0	.0
1		0245	34	13.	.4	1.3	1		1105	134	26.	4.0	2.9	1		1925	234	0.	.0	.0
1		0250	35	14.	.5	1.4	1		1110	135	25.	3.8	2.8	1		1930	235	0.	.0	.0
1		0255	36	15.	.5	1.5	1		1115	136	25.	3.6	2.8	1		1935	236	0.	.0	.0
1		0300	37	16.	.6	1.5	1		1120	137	25.	3.5	2.7	1		1940	237	0.	.0	.0
1		0305	38	16.	.6	1.6	1		1125	138	25.	3.3	2.7	1		1945	238	0.	.0	.0
1		0310	39	17.	.7	1.7	1		1130	139	24.	3.1	2.6	1		1950	239	0.	.0	.0
1		0315	40	19.	.9	1.9	1		1135	140	24.	3.0	2.6	1		1955	240	0.	.0	.0
1		0320	41	21.	1.2	2.1	1		1140	141	24.	2.8	2.5	1		2000	241	0.	.0	.0
1		0325	42	22.	1.8	2.2	1		1145	142	23.	2.6	2.5	1		2005	242	0.	.0	.0
1		0330	43	24.	2.8	2.5	1		1150	143	23.	2.5	2.4	1		2010	243	0.	.0	.0
1		0335	44	26.	4.4	3.0	1		1155	144	23.	2.3	2.4	1		2015	244	0.	.0	.0
1		0340	45	30.	6.4	3.5	1		1200	145	23.	2.2	2.3	1		2020	245	0.	.0	.0
1		0345	46	34.	8.6	4.1	1		1205	146	22.	2.0	2.3	1		2025	246	0.	.0	.0
1		0350	47	37.	10.7	4.8	1		1210	147	22.	1.9	2.2	1		2030	247	0.	.0	.0
1		0355	48	41.	12.7	5.3	1		1215	148	22.	1.7	2.2	1		2035	248	0.	.0	.0
1		0400	49	44.	14.3	5.7	1		1220	149	21.	1.6	2.2	1		2040	249	0.	.0	.0
1		0405	50	45.	15.5	6.1	1		1225	150	21.	1.4	2.1	1		2045	250	0.	.0	.0
1		0410	51	46.	16.5	6.2	1		1230	151	21.	1.3	2.1	1		2050	251	0.	.0	.0
1		0415	52	47.	17.2	6.3	1		1235	152	21.	1.1	2.0	1		2055	252	0.	.0	.0
1		0420	53	47.	17.7	6.3	1		1240	153	20.	1.0	2.0	1		2100	253	0.	.0	.0
1		0425	54	48.	18.1	6.4	1		1245	154	19.	.8	1.8	1		2105	254	0.	.0	.0
1		0430	55	48.	18.4	6.4	1		1250	155	17.	.7	1.7	1		2110	255	0.	.0	.0
1		0435	56	48.	18.6	6.5	1		1255	156	16.	.6	1.5	1		2115	256	0.	.0	.0
1		0440	57	48.	18.9	6.5	1		1300	157	14.	.5	1.4	1		2120	257	0.	.0	.0
1		0445	58	48.	19.2	6.5	1		1305	158	13.	.4	1.3	1		2125	258	0.	.0	.0
1		0450	59	49.	19.5	6.6	1		1310	159	12.	.3	1.2	1		2130	259	0.	.0	.0
1		0455	60	49.	19.8	6.6	1		1315	160	11.	.2	1.1	1		2135	260	0.	.0	.0
1		0500	61	49.	20.1	6.7	1		1320	161	10.	.2	1.0	1		2140	261	0.	.0	.0
1		0505	62	50.	20.4	6.7	1		1325	162	7.	.1	.7	1		2145	262	0.	.0	.0
1		0510	63	50.	20.6	6.7	1		1330	163	4.	.1	.4	1		2150	263	0.	.0	.0
1		0515	64	50.	20.8	6.8	1		1335	164	3.	.0	.3	1		2155	264	0.	.0	.0
1		0520	65	50.	20.8	6.8	1		1340	165	2.	.0	.2	1		2200	265	0.	.0	.0
1		0525	66	50.	20.8	6.8	1		1345	166	1.	.0	.1	1		2205	266	0.	.0	.0
1		0530	67	50.	20.7	6.7	1		1350	167	1.	.0	.1	1		2210	267	0.	.0	.0
1		0535	68	50.	20.5	6.7	1		1355	168	1.	.0	.0	1		2215	268	0.	.0	.0
1		0540	69	49.	20.3	6.7	1		1400	169	0.	.0	.0	1		2220	269	0.	.0	.0
1		0545	70	49.	20.1	6.7	1		1405	170	0.	.0	.0	1		2225	270	0.	.0	.0
1		0550	71	49.	19.9	6.6	1		1410	171	0.	.0	.0	1		2230	271	0.	.0	.0
1		0555	72	49.	19.6	6.6	1		1415	172	0.	.0	.0	1		2235	272	0.	.0	.0
1		0600	73	49.	19.4	6.6	1		1420	173	0.	.0	.0	1		2240	273	0.	.0	.0
1		0605	74	48.	19.1	6.5	1		1425	174	0.	.0	.0	1		2245	274	0.	.0	.0
1		0610	75	48.	18.9	6.5	1		1430	175	0.	.0	.0	1		2250	275	0.	.0	.0
1		0615	76	48.	18.6	6.5	1		1435	176	0.	.0	.0	1		2255	276	0.	.0	.0
1		0620	77	48.	18.3	6.4	1		1440	177	0.	.0	.0	1		2300	277	0.	.0	.0
1		0625	78	48.	18.0	6.4	1		1445	178	0.	.0	.0	1		2305	278	0.	.0	.0
1		0630	79	47.	17.7	6.3	1		1450	179	0.	.0	.0	1		2310	279	0.	.0	.0
1		0635	80	47.	17.4	6.3	1		1455	180	0.	.0	.0	1		2315	280	0.	.0	.0
1		0640	81	47.	17.1	6.3	1		1500	181	0.	.0	.0	1		2320	281	0.	.0	.0
1		0645	82	46.	16.7	6.2	1		1505	182	0.	.0	.0	1		2325	282	0.	.0	.0
1		0650	83	46.	16.4	6.2	1		1510	183	0.	.0	.0	1		2330	283	0.	.0	.0
1		0655	84	46.	16.1	6.1	1		1515	184	0.	.0	.0	1		2335	284	0.	.0	.0
1		0700	85	46.	15.8	6.1	1		1520	185	0.	.0	.0	1		2340	285	0.	.0	.0
1		0705	86	45.	15.5	6.0	1		1525	186	0.	.0	.0	1		2345	286	0.	.0	.0
1		0710	87	45.	15.2	6.0	1		1530	187	0.	.0	.0	1		2350	287	0.	.0	.0
1		0715	88	45.	14.9	5.9	1		1535	188	0.	.0	.0	1		2355	288	0.	.0	.0
1		0720	89	44.	14.6	5.8	1		1540	189	0.	.0	.0	2		0000	289	0.	.0	.0
1		0725	90	44.	14.3	5.8	1		1545	190	0.	.0	.0	2		0005	290	0.	.0	.0

1	0730	91	43.	14.0	5.7	1	1550	191	0.	.0	.0	2	0010	291	0.	.0	.0
1	0735	92	43.	13.7	5.6	1	1555	192	0.	.0	.0	2	0015	292	0.	.0	.0
1	0740	93	42.	13.4	5.5	1	1600	193	0.	.0	.0	2	0020	293	0.	.0	.0
1	0745	94	42.	13.1	5.4	1	1605	194	0.	.0	.0	2	0025	294	0.	.0	.0
1	0750	95	41.	12.8	5.3	1	1610	195	0.	.0	.0	2	0030	295	0.	.0	.0
1	0755	96	41.	12.5	5.3	1	1615	196	0.	.0	.0	2	0035	296	0.	.0	.0
1	0800	97	40.	12.2	5.2	1	1620	197	0.	.0	.0	2	0040	297	0.	.0	.0
1	0805	98	40.	12.0	5.1	1	1625	198	0.	.0	.0	2	0045	298	0.	.0	.0
1	0810	99	39.	11.7	5.0	1	1630	199	0.	.0	.0	2	0050	299	0.	.0	.0
1	0815	100	39.	11.4	5.0	1	1635	200	0.	.0	.0	2	0055	300	0.	.0	.0

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)	(CFS)				
+ 50.	5.33		43.	16.	15.	15.
		(INCHES)	1.030	1.504	1.504	1.504
		(AC-FT)	21.	31.	31.	31.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
+ 21.	5.33	15.	4.	4.	4.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
+ 6.76	5.33	5.68	1.95	1.88	1.88

CUMULATIVE AREA = .39 SQ MI

HYDROGRAPH AT STATION DET3
PLAN 1, RATIO = .90

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	.0	1		0820	101	38.	10.8	4.8	1		1640	201	0.	.0	.0
1		0005	2	0.	.0	.0	1		0825	102	37.	10.6	4.7	1		1645	202	0.	.0	.0
1		0010	3	0.	.0	.0	1		0830	103	37.	10.3	4.6	1		1650	203	0.	.0	.0
1		0015	4	0.	.0	.0	1		0835	104	36.	10.1	4.6	1		1655	204	0.	.0	.0
1		0020	5	0.	.0	.0	1		0840	105	36.	9.8	4.5	1		1700	205	0.	.0	.0
1		0025	6	0.	.0	.0	1		0845	106	35.	9.6	4.4	1		1705	206	0.	.0	.0
1		0030	7	1.	.0	.1	1		0850	107	35.	9.3	4.4	1		1710	207	0.	.0	.0
1		0035	8	1.	.0	.1	1		0855	108	35.	9.1	4.3	1		1715	208	0.	.0	.0
1		0040	9	2.	.0	.2	1		0900	109	34.	8.9	4.2	1		1720	209	0.	.0	.0
1		0045	10	2.	.0	.2	1		0905	110	34.	8.6	4.2	1		1725	210	0.	.0	.0
1		0050	11	2.	.0	.2	1		0910	111	33.	8.4	4.1	1		1730	211	0.	.0	.0
1		0055	12	2.	.0	.2	1		0915	112	33.	8.2	4.0	1		1735	212	0.	.0	.0
1		0100	13	1.	.0	.1	1		0920	113	33.	7.9	4.0	1		1740	213	0.	.0	.0
1		0105	14	1.	.0	.1	1		0925	114	32.	7.7	3.9	1		1745	214	0.	.0	.0
1		0110	15	1.	.0	.1	1		0930	115	32.	7.5	3.8	1		1750	215	0.	.0	.0
1		0115	16	1.	.0	.1	1		0935	116	31.	7.3	3.8	1		1755	216	0.	.0	.0
1		0120	17	1.	.0	.1	1		0940	117	31.	7.1	3.7	1		1800	217	0.	.0	.0
1		0125	18	2.	.0	.1	1		0945	118	31.	6.8	3.7	1		1805	218	0.	.0	.0
1		0130	19	2.	.0	.2	1		0950	119	30.	6.6	3.6	1		1810	219	0.	.0	.0
1		0135	20	3.	.1	.3	1		0955	120	30.	6.4	3.5	1		1815	220	0.	.0	.0
1		0140	21	5.	.1	.5	1		1000	121	30.	6.2	3.5	1		1820	221	0.	.0	.0
1		0145	22	7.	.1	.6	1		1005	122	29.	6.0	3.4	1		1825	222	0.	.0	.0
1		0150	23	8.	.1	.8	1		1010	123	29.	5.8	3.4	1		1830	223	0.	.0	.0
1		0155	24	9.	.2	.9	1		1015	124	29.	5.6	3.3	1		1835	224	0.	.0	.0
1		0200	25	10.	.2	1.0	1		1020	125	28.	5.4	3.3	1		1840	225	0.	.0	.0
1		0205	26	10.	.2	1.0	1		1025	126	28.	5.2	3.2	1		1845	226	0.	.0	.0
1		0210	27	9.	.2	.9	1		1030	127	28.	5.0	3.1	1		1850	227	0.	.0	.0
1		0215	28	9.	.1	.9	1		1035	128	27.	4.9	3.1	1		1855	228	0.	.0	.0
1		0220	29	10.	.2	.9	1		1040	129	27.	4.7	3.0	1		1900	229	0.	.0	.0
1		0225	30	10.	.2	1.0	1		1045	130	27.	4.5	3.0	1		1905	230	0.	.0	.0
1		0230	31	11.	.2	1.1	1		1050	131	26.	4.3	2.9	1		1910	231	0.	.0	.0
1		0235	32	12.	.3	1.2	1		1055	132	26.	4.1	2.9	1		1915	232	0.	.0	.0
1		0240	33	13.	.4	1.2	1		1100	133	26.	3.9	2.8	1		1920	233	0.	.0	.0
1		0245	34	13.	.4	1.3	1		1105	134	25.	3.8	2.8	1		1925	234	0.	.0	.0
1		0250	35	14.	.5	1.4	1		1110	135	25.	3.6	2.7	1		1930	235	0.	.0	.0
1		0255	36	15.	.5	1.4	1		1115	136	25.	3.4	2.7	1		1935	236	0.	.0	.0
1		0300	37	15.	.6	1.5	1		1120	137	24.	3.3	2.6	1		1940	237	0.	.0	.0
1		0305	38	16.	.6	1.5	1		1125	138	24.	3.1	2.6	1		1945	238	0.	.0	.0
1		0310	39	17.	.7	1.6	1		1130	139	24.	2.9	2.5	1		1950	239	0.	.0	.0
1		0315	40	19.	.8	1.8	1		1135	140	24.	2.8	2.5	1		1955	240	0.	.0	.0
1		0320	41	21.	1.2	2.0	1		1140	141	23.	2.6	2.5	1		2000	241	0.	.0	.0
1		0325	42	22.	1.7	2.2	1		1145	142	23.	2.4	2.4	1		2005	242	0.	.0	.0
1		0330	43	24.	2.8	2.5	1		1150	143	23.	2.3	2.4	1		2010	243	0.	.0	.0
1		0335	44	26.	4.3	2.9	1		1155	144	22.	2.1	2.3	1		2015	244	0.	.0	.0
1		0340	45	30.	6.2	3.5	1		1200	145	22.	2.0	2.3	1		2020	245	0.	.0	.0
1		0345	46	33.	8.4	4.1	1		1205	146	22.	1.8	2.2	1		2025	246	0.	.0	.0
1		0350	47	37.	10.5	4.7	1		1210	147	22.	1.7	2.2	1		2030	247	0.	.0	.0
1		0355	48	40.	12.4	5.2	1		1215	148	21.	1.5	2.2	1		2035	248	0.	.0	.0
1		0400	49	43.	14.0	5.7	1		1220	149	21.	1.4	2.1	1		2040	249	0.	.0	.0
1		0405	50	45.	15.2	6.0	1		1225	150	21.	1.2	2.1	1		2045	250	0.	.0	.0
1		0410	51	46.	16.2	6.1	1		1230	151	21.	1.1	2.0	1		2050	251	0.	.0	.0
1		0415	52	47.	16.9	6.2	1		1235	152	20.	.9	2.0	1		2055	252	0.	.0	.0
1		0420	53	47.	17.4	6.3	1		1240	153	18.	.8	1.8	1		2100	253	0.	.0	.0
1		0425	54	47.	17.7	6.3	1		1245	154	17.	.7	1.6	1		2105	254	0.	.0	.0
1		0430	55	48.	18.0	6.4	1		1250	155	15.	.6	1.5	1		2110	255	0.	.0	.0
1		0435	56	48.	18.2	6.4	1		1255	156	14.	.5	1.4	1		2115	256	0.	.0	.0
1		0440	57	48.	18.5	6.4	1		1300	157	13.	.4	1.3	1		2120	257	0.	.0	.0
1		0445	58	48.	18.8	6.5	1		1305	158	12.	.3	1.2	1		2125	258	0.	.0	.0
1		0450	59	48.	19.1	6.5	1		1310	159	11.	.2	1.1	1		2130	259	0.	.0	.0
1		0455	60	49.	19.4	6.6	1		1315	160	9.	.2	.9	1		2135	260	0.	.0	.0
1		0500	61	49.	19.7	6.6	1		1320	161	6.	.1	.6	1		2140	261	0.	.0	.0
1		0505	62	49.	20.0	6.7	1		1325	162	4.	.1	.4	1		2145	262	0.	.0	.0
1		0510	63	49.	20.2	6.7	1		1330	163	3.	.0	.3	1		2150	263	0.	.0	.0
1		0515	64	49.	20.4	6.7	1		1335	164	2.	.0	.2	1		2155	264	0.	.0	.0
1		0520	65	50.	20.4	6.7	1		1340	165	1.	.0	.1	1		2200	265	0.	.0	.0
1		0525	66	49.	20.4	6.7	1		1345	166	1.	.0	.1	1		2205	266	0.	.0	.0
1		0530	67	49.	20.3	6.7	1		1350	167	0.	.0	.0	1		2210	267	0.	.0	.0
1		0535	68	49.	20.1	6.7	1		1355	168	0.	.0	.0	1		2215	268	0.	.0	.0
1		0540	69	49.	19.9	6.6	1		1400	169	0.	.0	.0	1		2220	269	0.	.0	.0
1		0545	70	49.	19.7	6.6	1		1405	170	0.	.0	.0	1		2225	270	0.	.0	.0
1		0550	71	49.	19.5	6.6	1		1410	171	0.	.0	.0	1		2230	271	0.	.0	.0
1		0555	72	49.	19.2	6.5	1		1415	172	0.	.0	.0	1		2235	272	0.	.0	.0
1		0600	73	48.	19.0	6.5	1		1420	173	0.	.0	.0	1		2240	273	0.	.0	.0
1		0605	74	48.	18.7	6.5	1		1425	174	0.	.0	.0	1		2245	274	0.	.0	.0
1		0610	75	48.	18.4	6.4	1		1430	175	0.	.0	.0	1		2250	275	0.	.0	.0
1		0615	76	48.	18.2	6.4	1		1435	176	0.	.0	.0	1		2255	276	0.	.0	.0
1		0620	77	47.	17.9	6.4	1		1440	177	0.	.0	.0	1		2300	277	0.	.0	.0
1		0625	78	47.	17.6	6.3	1		1445	178	0.	.0	.0	1		2305	278	0.	.0	.0
1		0630	79	47.	17.3	6.3	1		1450	179	0.	.0	.0	1		2310	279	0.	.0	.0
1		0635	80	47.	17.0	6.2	1		1455	180	0.	.0	.0	1		2315	280	0.	.0	.0
1		0640	81	46.	16.7	6.2	1		1500	181	0.	.0	.0	1		2320	281	0.	.0	.0
1		0645	82	46.	16.3	6.2	1		1505	182	0.	.0	.0	1		2325	282	0.	.0	.0
1		0650	83	46.	16.0	6.1	1		1510	183	0.	.0	.0	1		2330	283	0.	.0	.0
1		0655	84	46.	15.7	6.1	1		1515	184	0.	.0	.0	1		2335	284	0.	.0	.0
1		0700	85	45.	15.4	6.0	1		1520	185	0.	.0	.0	1		2340	285	0.	.0	.0
1		0705	86	45.	15.1	6.0	1		1525	186	0.	.0	.0	1		2345	286	0.	.0	.0
1		0710	87	45.	14.8	5.9	1		1530	187	0.	.0	.0	1		2350	287	0.	.0	.0
1		0715	88	44.	14.5	5.8	1		1535	188	0.	.0	.0	1		2355	288	0.	.0	.0
1		0720	89	44.	14.2	5.7	1		1540	189	0.	.0	.0	2		0000	289	0.	.0	.0
1		0725	90	43.	13.9	5.6	1		1545	190	0.	.0	.0	2		0005	290	0.	.0	.0
1		0730	91	42.	13.6	5.6	1		1550	191	0.	.0	.0	2		0010	291	0.	.0	.0
1		0735	92	42.	13.3	5.5	1		1555	192	0.	.0	.0	2		0015	292	0.	.0	.0
1		0740	93	41.	13.0	5.4	1		1600	193	0.	.0	.0	2		0020	293	0.	.0	.0
1		0745	94	41.	12.7	5.3	1		1605	194	0.	.0	.0	2		0025	294	0.	.0	.0

1	0750	95	40.	12.5	5.2	*	1	1610	195	0.	.0	.0	*	2	0030	295	0.	.0	.0
1	0755	96	40.	12.2	5.2	*	1	1615	196	0.	.0	.0	*	2	0035	296	0.	.0	.0
1	0800	97	40.	11.9	5.1	*	1	1620	197	0.	.0	.0	*	2	0040	297	0.	.0	.0
1	0805	98	39.	11.6	5.0	*	1	1625	198	0.	.0	.0	*	2	0045	298	0.	.0	.0
1	0810	99	39.	11.4	4.9	*	1	1630	199	0.	.0	.0	*	2	0050	299	0.	.0	.0
1	0815	100	38.	11.1	4.9	*	1	1635	200	0.	.0	.0	*	2	0055	300	0.	.0	.0

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 50.	5.33		43.	16.	15.	15.
		(INCHES)	1.020	1.479	1.479	1.479
		(AC-FT)	21.	31.	31.	31.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
20.	5.33	15.	4.	4.	4.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
6.70	5.33	5.61	1.91	1.84	1.84

CUMULATIVE AREA = .39 SQ MI

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HYDROGRAPH AT STATION DET3
PLAN 1, RATIO = .70

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DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	.0	1		0820	101	28.	5.2	3.2	1		1640	201	0.	.0	.0
1		0005	2	0.	.0	.0	1		0825	102	28.	5.1	3.2	1		1645	202	0.	.0	.0
1		0010	3	0.	.0	.0	1		0830	103	27.	4.9	3.1	1		1650	203	0.	.0	.0
1		0015	4	0.	.0	.0	1		0835	104	27.	4.7	3.0	1		1655	204	0.	.0	.0
1		0020	5	0.	.0	.0	1		0840	105	27.	4.5	3.0	1		1700	205	0.	.0	.0
1		0025	6	0.	.0	.0	1		0845	106	26.	4.3	2.9	1		1705	206	0.	.0	.0
1		0030	7	0.	.0	.0	1		0850	107	26.	4.1	2.9	1		1710	207	0.	.0	.0
1		0035	8	1.	.0	.1	1		0855	108	26.	4.0	2.8	1		1715	208	0.	.0	.0
1		0040	9	1.	.0	.1	1		0900	109	25.	3.8	2.8	1		1720	209	0.	.0	.0
1		0045	10	1.	.0	.1	1		0905	110	25.	3.6	2.7	1		1725	210	0.	.0	.0
1		0050	11	1.	.0	.1	1		0910	111	25.	3.4	2.7	1		1730	211	0.	.0	.0
1		0055	12	1.	.0	.1	1		0915	112	24.	3.3	2.6	1		1735	212	0.	.0	.0
1		0100	13	1.	.0	.1	1		0920	113	24.	3.1	2.6	1		1740	213	0.	.0	.0
1		0105	14	0.	.0	.0	1		0925	114	24.	2.9	2.6	1		1745	214	0.	.0	.0
1		0110	15	0.	.0	.0	1		0930	115	24.	2.8	2.5	1		1750	215	0.	.0	.0
1		0115	16	0.	.0	.0	1		0935	116	23.	2.6	2.5	1		1755	216	0.	.0	.0
1		0120	17	0.	.0	.0	1		0940	117	23.	2.5	2.4	1		1800	217	0.	.0	.0
1		0125	18	1.	.0	.1	1		0945	118	23.	2.3	2.4	1		1805	218	0.	.0	.0
1		0130	19	1.	.0	.1	1		0950	119	22.	2.1	2.3	1		1810	219	0.	.0	.0
1		0135	20	1.	.0	.1	1		0955	120	22.	2.0	2.3	1		1815	220	0.	.0	.0
1		0140	21	2.	.0	.1	1		1000	121	22.	1.8	2.2	1		1820	221	0.	.0	.0
1		0145	22	2.	.0	.2	1		1005	122	22.	1.7	2.2	1		1825	222	0.	.0	.0
1		0150	23	3.	.0	.3	1		1010	123	21.	1.5	2.2	1		1830	223	0.	.0	.0
1		0155	24	3.	.1	.3	1		1015	124	21.	1.4	2.1	1		1835	224	0.	.0	.0
1		0200	25	3.	.1	.3	1		1020	125	21.	1.2	2.1	1		1840	225	0.	.0	.0
1		0205	26	3.	.1	.3	1		1025	126	21.	1.1	2.0	1		1845	226	0.	.0	.0
1		0210	27	3.	.1	.3	1		1030	127	20.	1.0	2.0	1		1850	227	0.	.0	.0
1		0215	28	3.	.1	.3	1		1035	128	19.	.8	1.8	1		1855	228	0.	.0	.0
1		0220	29	4.	.1	.4	1		1040	129	17.	.7	1.7	1		1900	229	0.	.0	.0
1		0225	30	5.	.1	.5	1		1045	130	16.	.6	1.5	1		1905	230	0.	.0	.0
1		0230	31	6.	.1	.6	1		1050	131	14.	.5	1.4	1		1910	231	0.	.0	.0
1		0235	32	8.	.1	.7	1		1055	132	13.	.4	1.3	1		1915	232	0.	.0	.0
1		0240	33	8.	.1	.8	1		1100	133	12.	.3	1.2	1		1920	233	0.	.0	.0
1		0245	34	9.	.1	.9	1		1105	134	11.	.2	1.1	1		1925	234	0.	.0	.0
1		0250	35	10.	.2	1.0	1		1110	135	10.	.2	.9	1		1930	235	0.	.0	.0
1		0255	36	10.	.2	1.0	1		1115	136	6.	.1	.6	1		1935	236	0.	.0	.0
1		0300	37	10.	.2	1.0	1		1120	137	4.	.1	.4	1		1940	237	0.	.0	.0
1		0305	38	11.	.2	1.0	1		1125	138	3.	.0	.3	1		1945	238	0.	.0	.0
1		0310	39	11.	.2	1.1	1		1130	139	2.	.0	.2	1		1950	239	0.	.0	.0
1		0315	40	12.	.3	1.2	1		1135	140	1.	.0	.1	1		1955	240	0.	.0	.0
1		0320	41	14.	.5	1.4	1		1140	141	1.	.0	.1	1		2000	241	0.	.0	.0
1		0325	42	19.	.8	1.8	1		1145	142	0.	.0	.0	1		2005	242	0.	.0	.0
1		0330	43	21.	1.5	2.1	1		1150	143	0.	.0	.0	1		2010	243	0.	.0	.0
1		0335	44	23.	2.4	2.4	1		1155	144	0.	.0	.0	1		2015	244	0.	.0	.0
1		0340	45	25.	3.6	2.8	1		1200	145	0.	.0	.0	1		2020	245	0.	.0	.0
1		0345	46	28.	5.1	3.2	1		1205	146	0.	.0	.0	1		2025	246	0.	.0	.0
1		0350	47	30.	6.5	3.5	1		1210	147	0.	.0	.0	1		2030	247	0.	.0	.0
1		0355	48	32.	7.7	3.9	1		1215	148	0.	.0	.0	1		2035	248	0.	.0	.0
1		0400	49	34.	8.8	4.2	1		1220	149	0.	.0	.0	1		2040	249	0.	.0	.0
1		0405	50	35.	9.6	4.4	1		1225	150	0.	.0	.0	1		2045	250	0.	.0	.0
1		0410	51	37.	10.2	4.6	1		1230	151	0.	.0	.0	1		2050	251	0.	.0	.0
1		0415	52	37.	10.7	4.7	1		1235	152	0.	.0	.0	1		2055	252	0.	.0	.0
1		0420	53	38.	11.0	4.8	1		1240	153	0.	.0	.0	1		2100	253	0.	.0	.0
1		0425	54	38.	11.2	4.9	1		1245	154	0.	.0	.0	1		2105	254	0.	.0	.0
1		0430	55	39.	11.3	4.9	1		1250	155	0.	.0	.0	1		2110	255	0.	.0	.0
1		0435	56	39.	11.5	5.0	1		1255	156	0.	.0	.0	1		2115	256	0.	.0	.0
1		0440	57	39.	11.6	5.0	1		1300	157	0.	.0	.0	1		2120	257	0.	.0	.0
1		0445	58	39.	11.8	5.1	1		1305	158	0.	.0	.0	1		2125	258	0.	.0	.0
1		0450	59	40.	12.0	5.1	1		1310	159	0.	.0	.0	1		2130	259	0.	.0	.0
1		0455	60	40.	12.2	5.2	1		1315	160	0.	.0	.0	1		2135	260	0.	.0	.0
1		0500	61	40.	12.4	5.2	1		1320	161	0.	.0	.0	1		2140	261	0.	.0	.0
1		0505	62	41.	12.5	5.3	1		1325	162	0.	.0	.0	1		2145	262	0.	.0	.0
1		0510	63	41.	12.6	5.3	1		1330	163	0.	.0	.0	1		2150	263	0.	.0	.0
1		0515	64	41.	12.7	5.3	1		1335	164	0.	.0	.0	1		2155	264	0.	.0	.0
1		0520	65	41.	12.7	5.3	1		1340	165	0.	.0	.0	1		2200	265	0.	.0	.0
1		0525	66	41.	12.6	5.3	1		1345	166	0.	.0	.0	1		2205	266	0.	.0	.0
1		0530	67	41.	12.5	5.3	1		1350	167	0.	.0	.0	1		2210	267	0.	.0	.0
1		0535	68	40.	12.4	5.2	1		1355	168	0.	.0	.0	1		2215	268	0.	.0	.0
1		0540	69	40.	12.2	5.2	1		1400	169	0.	.0	.0	1		2220	269	0.	.0	.0
1		0545	70	40.	12.0	5.1	1		1405	170	0.	.0	.0	1		2225	270	0.	.0	.0
1		0550	71	39.	11.8	5.1	1		1410	171	0.	.0	.0	1		2230	271	0.	.0	.0
1		0555	72	39.	11.6	5.0	1		1415	172	0.	.0	.0	1		2235	272	0.	.0	.0
1		0600	73	39.	11.4	4.9	1		1420	173	0.	.0	.0	1		2240	273	0.	.0	.0
1		0605	74	38.	11.2	4.9	1		1425	174	0.	.0	.0	1		2245	274	0.	.0	.0
1		0610	75	38.	11.0	4.8	1		1430	175	0.	.0	.0	1		2250	275	0.	.0	.0
1		0615	76	38.	10.8	4.8	1		1435	176	0.	.0	.0	1		2255	276	0.	.0	.0
1		0620	77	37.	10.5	4.7	1		1440	177	0.	.0	.0	1		2300	277	0.	.0	.0
1		0625	78	37.	10.3	4.6	1		1445	178	0.	.0	.0	1		2305	278	0.	.0	.0
1		0630	79	36.	10.1	4.6	1		1450	179	0.	.0	.0	1		2310	279	0.	.0	.0
1		0635	80	36.	9.8	4.5	1		1455	180	0.	.0	.0	1		2315	280	0.	.0	.0
1		0640	81	35.	9.6	4.4	1		1500	181	0.	.0	.0	1		2320	281	0.	.0	.0
1		0645	82	35.	9.3	4.4	1		1505	182	0.	.0	.0	1		2325	282	0.	.0	.0
1		0650	83	35.	9.1	4.3	1		1510	183	0.	.0	.0	1		2330	283	0.	.0	.0
1		0655	84	34.	8.9	4.2	1		1515	184	0.	.0	.0	1		2335	284	0.	.0	.0
1		0700	85	34.	8.6	4.2	1		1520	185	0.	.0	.0	1		2340	285	0.	.0	.0
1		0705	86	33.	8.4	4.1	1		1525	186	0.	.0	.0	1		2345	286	0.	.0	.0
1		0710	87	33.	8.2	4.0	1		1530	187	0.	.0	.0	1		2350	287	0.	.0	.0
1		0715	88	33.	8.0	4.0	1		1535	188	0.	.0	.0	1		2355	288	0.	.0	.0
1		0720	89	32.	7.7	3.9	1		1540	189	0.	.0	.0	2		0000	289	0.	.0	.0
1		0725	90	32.	7.5	3.8	1		1545	190	0.	.0	.0	2		0005	290	0.	.0	.0
1		0730	91	31.	7.3	3.8	1		1550	191	0.	.0	.0	2		0010	291	0.	.0	.0
1		0735	92	31.	7.1	3.7	1		1555	192	0.	.0	.0	2		0015	292	0.	.0	.0
1		0740	93	31.	6.9	3.7	1		1600	193	0.	.0	.0	2		0020	293	0.	.0	.0
1		0745	94	30.	6.7	3.6	1		1605	194	0.	.0	.0	2		0025	294	0.	.0	.0
1		0750	95	30.	6.4	3.5	1		1610	195	0.	.0	.0	2		0030	295	0.	.0	.0
1		0755	96	30.	6.2	3.5	1		1615	196	0.	.0	.0	2		0035	296	0.	.0	.0
1		0800	97	29.	6.0	3.4	1		1620	197	0.	.0	.0	2		0040	297	0.	.0	.0
1		0805	98	29.	5.8	3.4	1		1625	198	0.	.0	.0	2		0045	298	0.	.0	.0

1	0810	99	29.	5.6	3.3	1	1630	199	0.	.0	.0	2	0050	299	0.	.0	.0
1	0815	100	28.	5.4	3.3	1	1635	200	0.	.0	.0	2	0055	300	0.	.0	.0

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)					
		(CFS)				
41.	5.25		33.	10.	10.	10.
		(INCHES)	.793	.985	.985	.985
		(AC-FT)	16.	20.	20.	20.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
(AC-FT)	(HR)				
13.	5.25	8.	2.	2.	2.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
(FEET)	(HR)				
5.31	5.25	4.07	1.22	1.17	1.17

CUMULATIVE AREA = .39 SQ MI

HYDROGRAPH AT STATION DET3
PLAN 1, RATIO = .57

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	.0	1		0820	101	23.	2.2	2.3	1		1640	201	0.	.0	.0
1		0005	2	0.	.0	.0	1		0825	102	22.	2.0	2.3	1		1645	202	0.	.0	.0
1		0010	3	0.	.0	.0	1		0830	103	22.	1.9	2.2	1		1650	203	0.	.0	.0
1		0015	4	0.	.0	.0	1		0835	104	22.	1.7	2.2	1		1655	204	0.	.0	.0
1		0020	5	0.	.0	.0	1		0840	105	21.	1.6	2.2	1		1700	205	0.	.0	.0
1		0025	6	0.	.0	.0	1		0845	106	21.	1.4	2.1	1		1705	206	0.	.0	.0
1		0030	7	0.	.0	.0	1		0850	107	21.	1.3	2.1	1		1710	207	0.	.0	.0
1		0035	8	0.	.0	.0	1		0855	108	21.	1.1	2.0	1		1715	208	0.	.0	.0
1		0040	9	0.	.0	.0	1		0900	109	20.	1.0	2.0	1		1720	209	0.	.0	.0
1		0045	10	0.	.0	.0	1		0905	110	19.	.8	1.8	1		1725	210	0.	.0	.0
1		0050	11	0.	.0	.0	1		0910	111	17.	.7	1.7	1		1730	211	0.	.0	.0
1		0055	12	0.	.0	.0	1		0915	112	16.	.6	1.5	1		1735	212	0.	.0	.0
1		0100	13	0.	.0	.0	1		0920	113	14.	.5	1.4	1		1740	213	0.	.0	.0
1		0105	14	0.	.0	.0	1		0925	114	13.	.4	1.3	1		1745	214	0.	.0	.0
1		0110	15	0.	.0	.0	1		0930	115	12.	.3	1.2	1		1750	215	0.	.0	.0
1		0115	16	0.	.0	.0	1		0935	116	11.	.2	1.1	1		1755	216	0.	.0	.0
1		0120	17	0.	.0	.0	1		0940	117	10.	.2	1.0	1		1800	217	0.	.0	.0
1		0125	18	0.	.0	.0	1		0945	118	7.	.1	.6	1		1805	218	0.	.0	.0
1		0130	19	0.	.0	.0	1		0950	119	4.	.1	.4	1		1810	219	0.	.0	.0
1		0135	20	1.	.0	.1	1		0955	120	3.	.0	.3	1		1815	220	0.	.0	.0
1		0140	21	1.	.0	.1	1		1000	121	2.	.0	.2	1		1820	221	0.	.0	.0
1		0145	22	1.	.0	.1	1		1005	122	1.	.0	.1	1		1825	222	0.	.0	.0
1		0150	23	1.	.0	.1	1		1010	123	1.	.0	.1	1		1830	223	0.	.0	.0
1		0155	24	1.	.0	.1	1		1015	124	0.	.0	.0	1		1835	224	0.	.0	.0
1		0200	25	1.	.0	.1	1		1020	125	0.	.0	.0	1		1840	225	0.	.0	.0
1		0205	26	1.	.0	.1	1		1025	126	0.	.0	.0	1		1845	226	0.	.0	.0
1		0210	27	1.	.0	.1	1		1030	127	0.	.0	.0	1		1850	227	0.	.0	.0
1		0215	28	1.	.0	.1	1		1035	128	0.	.0	.0	1		1855	228	0.	.0	.0
1		0220	29	1.	.0	.1	1		1040	129	0.	.0	.0	1		1900	229	0.	.0	.0
1		0225	30	2.	.0	.2	1		1045	130	0.	.0	.0	1		1905	230	0.	.0	.0
1		0230	31	3.	.0	.3	1		1050	131	0.	.0	.0	1		1910	231	0.	.0	.0
1		0235	32	3.	.1	.3	1		1055	132	0.	.0	.0	1		1915	232	0.	.0	.0
1		0240	33	4.	.1	.4	1		1100	133	0.	.0	.0	1		1920	233	0.	.0	.0
1		0245	34	4.	.1	.4	1		1105	134	0.	.0	.0	1		1925	234	0.	.0	.0
1		0250	35	5.	.1	.5	1		1110	135	0.	.0	.0	1		1930	235	0.	.0	.0
1		0255	36	5.	.1	.5	1		1115	136	0.	.0	.0	1		1935	236	0.	.0	.0
1		0300	37	5.	.1	.5	1		1120	137	0.	.0	.0	1		1940	237	0.	.0	.0
1		0305	38	6.	.1	.6	1		1125	138	0.	.0	.0	1		1945	238	0.	.0	.0
1		0310	39	7.	.1	.7	1		1130	139	0.	.0	.0	1		1950	239	0.	.0	.0
1		0315	40	9.	.2	.9	1		1135	140	0.	.0	.0	1		1955	240	0.	.0	.0
1		0320	41	11.	.2	1.1	1		1140	141	0.	.0	.0	1		2000	241	0.	.0	.0
1		0325	42	14.	.5	1.4	1		1145	142	0.	.0	.0	1		2005	242	0.	.0	.0
1		0330	43	19.	.8	1.8	1		1150	143	0.	.0	.0	1		2010	243	0.	.0	.0
1		0335	44	21.	1.5	2.1	1		1155	144	0.	.0	.0	1		2015	244	0.	.0	.0
1		0340	45	23.	2.3	2.4	1		1200	145	0.	.0	.0	1		2020	245	0.	.0	.0
1		0345	46	24.	3.2	2.6	1		1205	146	0.	.0	.0	1		2025	246	0.	.0	.0
1		0350	47	26.	4.2	2.9	1		1210	147	0.	.0	.0	1		2030	247	0.	.0	.0
1		0355	48	28.	5.0	3.1	1		1215	148	0.	.0	.0	1		2035	248	0.	.0	.0
1		0400	49	29.	5.7	3.3	1		1220	149	0.	.0	.0	1		2040	249	0.	.0	.0
1		0405	50	30.	6.3	3.5	1		1225	150	0.	.0	.0	1		2045	250	0.	.0	.0
1		0410	51	30.	6.7	3.6	1		1230	151	0.	.0	.0	1		2050	251	0.	.0	.0
1		0415	52	31.	7.0	3.7	1		1235	152	0.	.0	.0	1		2055	252	0.	.0	.0
1		0420	53	31.	7.2	3.8	1		1240	153	0.	.0	.0	1		2100	253	0.	.0	.0
1		0425	54	32.	7.3	3.8	1		1245	154	0.	.0	.0	1		2105	254	0.	.0	.0
1		0430	55	32.	7.4	3.8	1		1250	155	0.	.0	.0	1		2110	255	0.	.0	.0
1		0435	56	32.	7.5	3.8	1		1255	156	0.	.0	.0	1		2115	256	0.	.0	.0
1		0440	57	32.	7.6	3.9	1		1300	157	0.	.0	.0	1		2120	257	0.	.0	.0
1		0445	58	32.	7.7	3.9	1		1305	158	0.	.0	.0	1		2125	258	0.	.0	.0
1		0450	59	32.	7.8	3.9	1		1310	159	0.	.0	.0	1		2130	259	0.	.0	.0
1		0455	60	33.	7.9	4.0	1		1315	160	0.	.0	.0	1		2135	260	0.	.0	.0
1		0500	61	33.	8.1	4.0	1		1320	161	0.	.0	.0	1		2140	261	0.	.0	.0
1		0505	62	33.	8.2	4.0	1		1325	162	0.	.0	.0	1		2145	262	0.	.0	.0
1		0510	63	33.	8.2	4.0	1		1330	163	0.	.0	.0	1		2150	263	0.	.0	.0
1		0515	64	33.	8.3	4.1	1		1335	164	0.	.0	.0	1		2155	264	0.	.0	.0
1		0520	65	33.	8.2	4.0	1		1340	165	0.	.0	.0	1		2200	265	0.	.0	.0
1		0525	66	33.	8.2	4.0	1		1345	166	0.	.0	.0	1		2205	266	0.	.0	.0
1		0530	67	33.	8.1	4.0	1		1350	167	0.	.0	.0	1		2210	267	0.	.0	.0
1		0535	68	33.	7.9	4.0	1		1355	168	0.	.0	.0	1		2215	268	0.	.0	.0
1		0540	69	32.	7.8	3.9	1		1400	169	0.	.0	.0	1		2220	269	0.	.0	.0
1		0545	70	32.	7.6	3.9	1		1405	170	0.	.0	.0	1		2225	270	0.	.0	.0
1		0550	71	32.	7.5	3.8	1		1410	171	0.	.0	.0	1		2230	271	0.	.0	.0
1		0555	72	32.	7.3	3.8	1		1415	172	0.	.0	.0	1		2235	272	0.	.0	.0
1		0600	73	31.	7.1	3.7	1		1420	173	0.	.0	.0	1		2240	273	0.	.0	.0
1		0605	74	31.	7.0	3.7	1		1425	174	0.	.0	.0	1		2245	274	0.	.0	.0
1		0610	75	31.	6.8	3.6	1		1430	175	0.	.0	.0	1		2250	275	0.	.0	.0
1		0615	76	30.	6.6	3.6	1		1435	176	0.	.0	.0	1		2255	276	0.	.0	.0
1		0620	77	30.	6.4	3.5	1		1440	177	0.	.0	.0	1		2300	277	0.	.0	.0
1		0625	78	30.	6.2	3.5	1		1445	178	0.	.0	.0	1		2305	278	0.	.0	.0
1		0630	79	29.	6.0	3.4	1		1450	179	0.	.0	.0	1		2310	279	0.	.0	.0
1		0635	80	29.	5.8	3.4	1		1455	180	0.	.0	.0	1		2315	280	0.	.0	.0
1		0640	81	29.	5.7	3.3	1		1500	181	0.	.0	.0	1		2320	281	0.	.0	.0
1		0645	82	28.	5.5	3.3	1		1505	182	0.	.0	.0	1		2325	282	0.	.0	.0
1		0650	83	28.	5.3	3.2	1		1510	183	0.	.0	.0	1		2330	283	0.	.0	.0
1		0655	84	28.	5.1	3.2	1		1515	184	0.	.0	.0	1		2335	284	0.	.0	.0
1		0700	85	27.	4.9	3.1	1		1520	185	0.	.0	.0	1		2340	285	0.	.0	.0
1		0705	86	27.	4.7	3.1	1		1525	186	0.	.0	.0	1		2345	286	0.	.0	.0
1		0710	87	27.	4.5	3.0	1		1530	187	0.	.0	.0	1		2350	287	0.	.0	.0
1		0715	88	26.	4.3	2.9	1		1535	188	0.	.0	.0	1		2355	288	0.	.0	.0
1		0720	89	26.	4.2	2.9	1		1540	189	0.	.0	.0	2		0000	289	0.	.0	.0
1		0725	90	26.	4.0	2.8	1		1545	190	0.	.0	.0	2		0005	290	0.	.0	.0
1		0730	91	25.	3.8	2.8	1		1550	191	0.	.0	.0	2		0010	291	0.	.0	.0
1		0735	92	25.	3.6	2.7	1		1555	192	0.	.0	.0	2		0015	292	0.	.0	.0
1		0740	93	25.	3.5	2.7	1		1600	193	0.	.0	.0	2		0020	293	0.	.0	.0
1		0745	94	24.	3.3	2.7	1		1605	194	0.	.0	.0	2		0025	294	0.	.0	.0
1		0750	95	24.	3.1	2.6	1		1610	195	0.	.0	.0	2		0030	295	0.	.0	.0
1		0755	96	24.	3.0	2.6	1		1615	196	0.	.0	.0	2		0035	296	0.	.0	.0
1		0800	97	24.	2.8	2.5	1		1620	197	0.	.0	.0	2		0040	297	0.	.0	.0
1		0805	98	23.	2.6	2.5	1		1625	198	0.	.0	.0	2		0045	298	0.	.0	.0
1		0810	99	23.	2.5	2.4	1		1630	199	0.	.0	.0	2		0050	299	0.	.0	.0
1		0815	100	23.	2.3	2.4	1		1635	200	0.	.0	.0	2		0055	300	0.	.0	.0

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)	(CFS)				
+ 33.	5.25		27.	7.	7.	7.
		(INCHES)	.640	.688	.688	.688
		(AC-FT)	13.	14.	14.	14.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
8.	5.25	5.	1.	1.	1.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
4.05	5.25	3.06	.81	.78	.78

CUMULATIVE AREA = .39 SQ MI

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PEAK FLOW AND STAGE (END-OF-PERIOD) SUMMARY FOR MULTIPLE PLAN-RATIO ECONOMIC COMPUTATIONS
FLOWS IN CUBIC FEET PER SECOND, AREA IN SQUARE MILES
TIME TO PEAK IN HOURS

OPERATION	STATION	AREA	PLAN		RATIOS APPLIED TO PRECIPITATION RATIO 1 1.00	RATIO 2 .98	RATIO 3 .97	RATIO 4 .93	RATIO 5 .91	RATIO 6 .90	RATIO 7 .70	RATIO 8 .57
+ HYDROGRAPH AT	95-5	.03	1	FLOW	57.	55.	55.	52.	51.	50.	36.	27.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ DIVERSION TO	DCHD1B	.03	1	FLOW	51.	50.	49.	47.	46.	45.	32.	24.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	DHD01B	.03	1	FLOW	6.	5.	5.	5.	5.	5.	4.	3.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	OFF8	.01	1	FLOW	22.	22.	22.	20.	20.	20.	14.	10.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	OFFY	.01	1	FLOW	22.	22.	21.	20.	20.	20.	15.	11.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 3 COMBINED AT	CHD02B	.06	1	FLOW	50.	49.	48.	46.	45.	44.	32.	24.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ DIVERSION TO	DCHD2B	.06	1	FLOW	50.	49.	48.	46.	44.	44.	32.	24.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	DHD02B	.06	1	FLOW	1.	0.	0.	0.	0.	0.	0.	0.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	WGED1A	.02	1	FLOW	33.	32.	32.	31.	30.	29.	22.	17.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	WGED1B	.04	1	FLOW	62.	60.	59.	56.	55.	54.	39.	29.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.58
+ HYDROGRAPH AT	STRT3	.00	1	FLOW	4.	4.	4.	4.	4.	4.	3.	2.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 3 COMBINED AT	WPT49	.05	1	FLOW	99.	96.	95.	91.	88.	87.	64.	48.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	OFFW	.01	1	FLOW	22.	21.	21.	20.	19.	19.	14.	10.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 3 COMBINED AT	CHD04B	.12	1	FLOW	121.	118.	116.	111.	108.	106.	77.	59.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	WBU3	.07	1	FLOW	123.	120.	119.	114.	111.	110.	82.	64.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	STRT2	.00	1	FLOW	8.	8.	8.	7.	7.	7.	5.	4.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	GRAND3	.01	1	FLOW	20.	19.	19.	18.	18.	18.	14.	11.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	WBU2B	.02	1	FLOW	44.	43.	42.	40.	39.	39.	29.	23.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	WGC1	.02	1	FLOW	41.	40.	40.	38.	37.	36.	27.	21.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 5 COMBINED AT	WPT48	.12	1	FLOW	231.	226.	224.	213.	208.	206.	154.	120.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 2 COMBINED AT	CHD05B	.24	1	FLOW	352.	344.	340.	324.	316.	312.	231.	179.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	WBU1	.04	1	FLOW	70.	69.	68.	65.	63.	63.	47.	36.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	STRT1	.00	1	FLOW	10.	10.	10.	10.	9.	9.	7.	6.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	WBU2A	.05	1	FLOW	95.	93.	92.	88.	86.	85.	63.	49.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	WL2B	.06	1	FLOW	98.	95.	94.	89.	86.	85.	60.	43.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	GRAND2	.00	1	FLOW	8.	8.	8.	8.	8.	7.	6.	5.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ 5 COMBINED AT												

+	DUMMY	.16	1	FLOW	274.	268.	265.	252.	245.	242.	178.	136.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT												
+	HORSE3	.01	1	FLOW	25.	24.	24.	23.	22.	22.	17.	14.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
2 COMBINED AT												
+	WPT46	.17	1	FLOW	296.	289.	286.	272.	265.	262.	193.	148.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT												
+	OFF14	.01	1	FLOW	26.	25.	25.	24.	23.	23.	17.	13.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
3 COMBINED AT												
+	CHD06B	.43	1	FLOW	672.	656.	648.	617.	602.	594.	438.	338.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
+	95-9A	.01	1	FLOW	21.	20.	20.	19.	19.	18.	14.	10.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
2 COMBINED AT												
+	CHD07B	.44	1	FLOW	692.	676.	668.	636.	620.	612.	452.	348.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
+	OFF15	.03	1	FLOW	62.	61.	60.	57.	56.	55.	41.	32.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
2 COMBINED AT												
+	CHD7B2	.47	1	FLOW	755.	737.	729.	694.	676.	668.	493.	380.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
+	OFF17B	.01	1	FLOW	15.	15.	15.	14.	14.	13.	10.	7.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
+	OFF17A	.03	1	FLOW	51.	50.	49.	47.	45.	45.	32.	24.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
2 COMBINED AT												
+	COFF17	.04	1	FLOW	66.	65.	64.	61.	59.	58.	42.	31.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
+	ON1	.00	1	FLOW	8.	7.	7.	7.	7.	7.	5.	4.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
+	ON4A	.00	1	FLOW	8.	8.	8.	8.	7.	7.	5.	4.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
2 COMBINED AT												
+	C1	.01	1	FLOW	16.	16.	15.	15.	14.	14.	10.	7.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
DIVERSION TO												
+	DIV1	.01	1	FLOW	13.	13.	13.	12.	12.	11.	8.	6.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
+	D1	.01	1	FLOW	3.	3.	3.	3.	3.	3.	2.	1.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
+	ON5	.01	1	FLOW	10.	9.	9.	9.	9.	8.	6.	4.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
2 COMBINED AT												
+	C2	.01	1	FLOW	13.	12.	12.	12.	11.	11.	8.	6.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
DIVERSION TO												
+	DIV1A	.01	1	FLOW	13.	12.	12.	12.	11.	11.	8.	6.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
+	D1A	.01	1	FLOW	0.	0.	0.	0.	0.	0.	0.	0.
				TIME	.00	.00	.00	.00	.00	.00	.00	.00
HYDROGRAPH AT												
+	ON4B	.00	1	FLOW	6.	5.	5.	5.	5.	5.	3.	3.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
+	RET1	.00	1	FLOW	13.	13.	13.	12.	12.	11.	8.	6.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
+	ON6	.00	1	FLOW	7.	7.	7.	7.	7.	6.	5.	3.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
2 COMBINED AT												
+	C3	.00	1	FLOW	20.	20.	20.	19.	18.	18.	13.	9.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
DIVERSION TO												
+	DIV1B	.00	1	FLOW	20.	20.	20.	19.	18.	18.	13.	9.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
+	D1B	.00	1	FLOW	0.	0.	0.	0.	0.	0.	0.	0.
				TIME	.00	.00	.00	.00	.00	.00	.00	.00
HYDROGRAPH AT												
+	ON2	.00	1	FLOW	9.	9.	9.	8.	8.	8.	6.	4.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
+	ON3	.01	1	FLOW	12.	12.	11.	11.	10.	10.	7.	6.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
+	ON9	.00	1	FLOW	8.	8.	8.	7.	7.	7.	5.	4.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
3 COMBINED AT												
+	C4	.02	1	FLOW	29.	28.	28.	26.	26.	25.	18.	13.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
DIVERSION TO												
+	DIV2	.02	1	FLOW	24.	23.	23.	22.	21.	21.	15.	11.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
+	D2	.02	1	FLOW	5.	5.	5.	5.	4.	4.	3.	2.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
+	ON10	.00	1	FLOW	5.	5.	5.	4.	4.	4.	3.	2.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
2 COMBINED AT												
+	C5	.02	1	FLOW	10.	10.	9.	9.	9.	9.	6.	5.

				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
DIVERSION TO	DIV3	.02	1	FLOW	8.	8.	8.	7.	7.	7.	5.	4.
+				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT	D3	.02	1	FLOW	2.	2.	2.	2.	2.	2.	1.	1.
+				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT	ON11	.00	1	FLOW	5.	5.	5.	4.	4.	4.	3.	2.
+				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
2 COMBINED AT	C6	.02	1	FLOW	7.	7.	7.	6.	6.	6.	4.	3.
+				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
DIVERSION TO	DIV1C	.02	1	FLOW	7.	7.	7.	6.	6.	6.	4.	3.
+				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT	D1C	.02	1	FLOW	0.	0.	0.	0.	0.	0.	0.	0.
+				TIME	.00	.00	.00	.00	.00	.00	.00	.00
4 COMBINED AT	CD1C	.04	1	FLOW	6.	5.	5.	5.	5.	5.	3.	3.
+				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
ROUTED TO	RCD1C	.04	1	FLOW	5.	5.	5.	5.	5.	4.	3.	2.
+				TIME	3.67	3.67	3.67	3.75	3.75	3.75	3.75	3.83
DIVERSION TO	DOFF23	.04	1	FLOW	5.	5.	5.	5.	5.	4.	3.	2.
+				TIME	3.67	3.67	3.67	3.75	3.75	3.75	3.75	3.83
HYDROGRAPH AT	DRCD1C	.04	1	FLOW	0.	0.	0.	0.	0.	0.	0.	0.
+				TIME	.00	.00	.00	.00	.00	.00	.00	.00
HYDROGRAPH AT	ON8	.00	1	FLOW	6.	6.	6.	5.	5.	5.	3.	2.
+				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT	RET2	.00	1	FLOW	24.	23.	23.	22.	21.	21.	15.	11.
+				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
2 COMBINED AT	C7	.00	1	FLOW	30.	29.	29.	27.	26.	26.	18.	13.
+				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT	RET3	.00	1	FLOW	8.	8.	8.	7.	7.	7.	5.	4.
+				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT	ON7	.01	1	FLOW	14.	13.	13.	12.	12.	12.	9.	6.
+				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
3 COMBINED AT	C8	.01	1	FLOW	51.	50.	49.	47.	45.	45.	32.	23.
+				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT	RET1A	.00	1	FLOW	13.	12.	12.	12.	11.	11.	8.	6.
+				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT	RET1B	.00	1	FLOW	20.	20.	20.	19.	18.	18.	13.	9.
+				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT	RET1C	.00	1	FLOW	7.	7.	7.	6.	6.	6.	4.	3.
+				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
3 COMBINED AT	C9	.00	1	FLOW	40.	39.	38.	36.	35.	35.	25.	18.
+				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT	ON2D	.01	1	FLOW	21.	21.	20.	19.	19.	19.	14.	11.
+				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT	ON5D	.00	1	FLOW	8.	8.	8.	8.	7.	7.	6.	4.
+				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
2 COMBINED AT	CP1	.01	1	FLOW	29.	29.	28.	27.	26.	26.	19.	15.
+				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT	ON3D	.00	1	FLOW	7.	7.	7.	7.	7.	7.	5.	4.
+				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
2 COMBINED AT	CP2	.02	1	FLOW	37.	36.	36.	34.	33.	33.	24.	19.
+				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT	ON1D	.01	1	FLOW	16.	15.	15.	15.	14.	14.	10.	8.
+				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT	ON4D	.00	1	FLOW	8.	8.	8.	8.	7.	7.	5.	4.
+				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
2 COMBINED AT	CP3	.01	1	FLOW	24.	23.	23.	22.	21.	21.	16.	12.
+				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
2 COMBINED AT	CP4	.03	1	FLOW	61.	59.	59.	56.	55.	54.	40.	31.
+				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
4 COMBINED AT	CENGCA	.08	1	FLOW	152.	148.	146.	139.	135.	134.	97.	73.
+				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT	WML4	.04	1	FLOW	68.	67.	66.	63.	61.	60.	44.	34.
+				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT	SHAUM1	.01	1	FLOW	14.	14.	14.	13.	13.	13.	10.	8.
+				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT	WML3A	.02	1	FLOW	38.	37.	37.	35.	34.	34.	25.	20.
+				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT	WML2	.09	1	FLOW	161.	158.	156.	149.	145.	143.	106.	82.
+				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58

+ 4 COMBINED AT	DUMMY	.15	1	FLOW	277.	271.	268.	255.	248.	245.	181.	140.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	EGAN1	.00	1	FLOW	10.	10.	10.	9.	9.	9.	7.	6.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	RACL1A	.01	1	FLOW	14.	13.	13.	13.	12.	12.	10.	8.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 3 COMBINED AT	RA-EG	.16	1	FLOW	301.	294.	291.	277.	270.	267.	198.	153.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	WML1	.02	1	FLOW	47.	46.	46.	44.	43.	42.	31.	24.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	STRT4	.00	1	FLOW	6.	6.	6.	6.	6.	6.	4.	3.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	WL3A	.03	1	FLOW	54.	53.	52.	49.	48.	47.	33.	25.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	WSCHL1	.06	1	FLOW	104.	101.	100.	94.	92.	90.	64.	47.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 5 COMBINED AT	DUMMY	.27	1	FLOW	510.	498.	492.	468.	456.	450.	329.	251.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	HUAL1	.01	1	FLOW	11.	11.	11.	11.	10.	10.	8.	6.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	RACL1B	.00	1	FLOW	11.	10.	10.	10.	10.	10.	7.	6.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 3 COMBINED AT	RA-HU	.28	1	FLOW	532.	519.	513.	488.	475.	469.	344.	263.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	WL1	.11	1	FLOW	156.	151.	149.	141.	137.	135.	94.	68.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	WNVE1	.01	1	FLOW	13.	13.	13.	12.	12.	12.	9.	7.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	WL2A	.05	1	FLOW	78.	76.	75.	71.	69.	68.	48.	35.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	RACL1C	.01	1	FLOW	14.	14.	14.	13.	13.	13.	10.	8.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 5 COMBINED AT	DUMMY	.45	1	FLOW	770.	752.	743.	706.	687.	678.	493.	374.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	GRAND1	.00	1	FLOW	6.	6.	6.	6.	6.	5.	4.	3.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ 2 COMBINED AT	CP26	.46	1	FLOW	777.	758.	749.	711.	693.	683.	497.	377.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ 2 COMBINED AT	CCP4	.54	1	FLOW	915.	893.	882.	837.	815.	804.	581.	438.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	OFF21B	.04	1	FLOW	75.	73.	72.	69.	67.	66.	49.	38.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 2 COMBINED AT	COF21B	.58	1	FLOW	990.	966.	954.	906.	882.	870.	630.	476.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	ROFF23	.00	1	FLOW	5.	5.	5.	5.	5.	4.	3.	2.
				TIME	3.67	3.67	3.67	3.75	3.75	3.75	3.75	3.83
+ HYDROGRAPH AT	OFF23	.01	1	FLOW	17.	16.	16.	15.	15.	15.	11.	8.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 2 COMBINED AT	COFF23	.01	1	FLOW	19.	18.	18.	17.	17.	16.	11.	9.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.50
+ HYDROGRAPH AT	NW29-C	.13	1	FLOW	200.	195.	193.	183.	178.	176.	128.	96.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
+ ROUTED TO	RNW29C	.13	1	FLOW	200.	195.	193.	184.	179.	176.	127.	96.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
+ HYDROGRAPH AT	NW71-W	.10	1	FLOW	156.	153.	151.	143.	139.	137.	99.	74.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.67
+ 2 COMBINED AT	CNW71W	.24	1	FLOW	354.	345.	341.	324.	316.	312.	225.	170.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
+ ROUTED TO	RCNW71	.24	1	FLOW	354.	344.	341.	322.	315.	310.	222.	165.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
+ HYDROGRAPH AT	NW71-E	.24	1	FLOW	259.	252.	249.	234.	227.	223.	152.	108.
				TIME	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75
+ 2 COMBINED AT	CNW71E	.47	1	FLOW	610.	593.	585.	552.	537.	529.	370.	272.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.75
+ HYDROGRAPH AT	GT1	.02	1	FLOW	40.	39.	39.	37.	36.	36.	28.	22.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
+ HYDROGRAPH AT	OFFU	.04	1	FLOW	74.	72.	71.	68.	66.	66.	49.	38.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58

+ 3 COMBINED AT	CP26WT	.54	1	FLOW	704.	685.	676.	639.	622.	613.	433.	319.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
+ 5 COMBINED AT	95STH	1.64	1	FLOW	2420.	2360.	2332.	2213.	2156.	2125.	1540.	1162.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	OFF21	.48	1	FLOW	473.	460.	453.	426.	413.	406.	275.	195.
				TIME	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.92
+ HYDROGRAPH AT	OFF20	.33	1	FLOW	297.	289.	284.	267.	258.	254.	169.	117.
				TIME	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92
+ HYDROGRAPH AT	DB1	.02	1	FLOW	43.	42.	41.	39.	38.	38.	28.	21.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ 3 COMBINED AT	PT1	.84	1	FLOW	792.	770.	758.	713.	690.	679.	457.	321.
				TIME	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.92
+ ROUTED TO	DET1	.84	1	FLOW	148.	146.	145.	141.	138.	137.	112.	94.
				TIME	5.42	5.42	5.42	5.42	5.33	5.33	5.33	5.25
			** PEAK STAGES IN FEET **									
			1	STAGE	40.69	40.40	40.26	39.71	39.43	39.29	36.56	34.86
				TIME	5.42	5.42	5.42	5.42	5.33	5.33	5.33	5.25
+ DIVERSION TO	DIV-1	.84	1	FLOW	68.	67.	67.	65.	64.	63.	51.	43.
				TIME	5.42	5.42	5.42	5.42	5.33	5.33	5.33	5.25
+ HYDROGRAPH AT	DIV1	.84	1	FLOW	80.	79.	78.	76.	75.	74.	61.	51.
				TIME	5.42	5.42	5.42	5.42	5.33	5.33	5.33	5.25
+ HYDROGRAPH AT	OFF18	.21	1	FLOW	213.	206.	203.	190.	184.	181.	119.	82.
				TIME	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75
+ HYDROGRAPH AT	DB2	.03	1	FLOW	55.	54.	53.	50.	49.	49.	36.	27.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ 3 COMBINED AT	PT2	1.08	1	FLOW	304.	296.	292.	277.	269.	265.	183.	132.
				TIME	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75
+ ROUTED TO	DET2	1.08	1	FLOW	48.	47.	47.	46.	46.	46.	40.	33.
				TIME	9.58	9.50	9.50	9.25	9.17	9.08	7.83	7.17
			** PEAK STAGES IN FEET **									
			1	STAGE	30.48	30.37	30.31	30.10	29.99	29.94	28.77	27.61
				TIME	9.67	9.58	9.50	9.33	9.17	9.17	7.83	7.17
+ DIVERSION TO	DIV-2	1.08	1	FLOW	48.	47.	47.	46.	46.	46.	40.	33.
				TIME	9.58	9.50	9.50	9.25	9.17	9.08	7.83	7.17
+ HYDROGRAPH AT	DIV2	1.08	1	FLOW	0.	0.	0.	0.	0.	0.	0.	0.
				TIME	.00	.00	.00	.00	.00	.00	.00	.00
+ HYDROGRAPH AT	OFF16	.36	1	FLOW	372.	361.	356.	334.	323.	317.	211.	145.
				TIME	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75
+ HYDROGRAPH AT	DB3	.03	1	FLOW	51.	50.	49.	47.	46.	45.	33.	25.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ 2 COMBINED AT	PT3	.39	1	FLOW	412.	400.	394.	371.	359.	353.	237.	166.
				TIME	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75
+ ROUTED TO	DET3	.39	1	FLOW	53.	52.	52.	51.	50.	50.	41.	33.
				TIME	5.33	5.33	5.33	5.33	5.33	5.33	5.25	5.25
			** PEAK STAGES IN FEET **									
			1	STAGE	7.27	7.15	7.10	6.87	6.76	6.70	5.31	4.05
				TIME	5.33	5.33	5.33	5.33	5.33	5.33	5.25	5.25
+ DIVERSION TO	DIV-3	.39	1	FLOW	53.	52.	52.	51.	50.	50.	41.	33.
				TIME	5.33	5.33	5.33	5.33	5.33	5.33	5.25	5.25
+ HYDROGRAPH AT	DIV3	.39	1	FLOW	0.	0.	0.	0.	0.	0.	0.	0.
				TIME	.00	.00	.00	.00	.00	.00	.00	.00
+ 3 COMBINED AT	EMPTY	3.11	1	FLOW	2420.	2360.	2332.	2213.	2156.	2125.	1540.	1162.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	WPRK3	.02	1	FLOW	32.	31.	31.	29.	28.	27.	18.	12.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	WGC2	.01	1	FLOW	19.	18.	18.	17.	17.	17.	13.	10.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	WML3B	.04	1	FLOW	81.	79.	79.	75.	73.	72.	54.	42.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	EGAN2	.00	1	FLOW	8.	7.	7.	7.	7.	7.	5.	4.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	AROY2	.01	1	FLOW	22.	21.	21.	19.	19.	19.	13.	9.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 5 COMBINED AT	DUMMY	.09	1	FLOW	159.	155.	153.	145.	141.	139.	100.	75.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	WPRK2A	.01	1	FLOW	9.	9.	9.	8.	8.	8.	5.	3.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	WPRK2B	.00	1	FLOW	3.	3.	3.	3.	3.	3.	2.	1.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	AROY3	.00	1	FLOW	7.	7.	7.	6.	6.	6.	4.	3.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50

HYDROGRAPH AT

+	WL3B	.03	1	FLOW	42.	41.	41.	39.	37.	37.	26.	19.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ 5 COMBINED AT	DUMMY	.13	1	FLOW	219.	214.	211.	200.	194.	191.	136.	101.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	HORSE2	.01	1	FLOW	25.	24.	24.	23.	23.	22.	17.	14.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	HUAL2A	.01	1	FLOW	11.	10.	10.	10.	10.	10.	7.	6.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ 3 COMBINED AT	HU-HO	.14	1	FLOW	255.	248.	245.	232.	226.	223.	160.	120.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	WML5	.04	1	FLOW	76.	75.	74.	70.	69.	68.	51.	40.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	WSCHL2	.02	1	FLOW	33.	33.	32.	31.	30.	29.	21.	16.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	WPRK1	.01	1	FLOW	18.	18.	18.	17.	16.	16.	10.	7.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	STRT5	.01	1	FLOW	15.	15.	14.	14.	13.	13.	10.	8.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 5 COMBINED AT	DUMMY	.22	1	FLOW	398.	388.	383.	364.	354.	349.	252.	190.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	AROY5	.01	1	FLOW	20.	19.	19.	18.	17.	17.	12.	8.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	WMLA1	.07	1	FLOW	133.	130.	129.	123.	120.	119.	89.	69.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	HUAL2B	.01	1	FLOW	21.	20.	20.	19.	19.	19.	14.	11.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
+ 4 COMBINED AT	DUMMY	.31	1	FLOW	562.	548.	541.	514.	501.	494.	360.	273.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	DIV-2	.00	1	FLOW	48.	47.	47.	46.	46.	46.	40.	33.
				TIME	9.58	9.50	9.50	9.25	9.17	9.08	7.83	7.17
+ HYDROGRAPH AT	AROY4	.01	1	FLOW	13.	13.	13.	12.	11.	11.	8.	5.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	WML7	.04	1	FLOW	78.	76.	76.	72.	70.	69.	52.	40.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	WPRK4	.00	1	FLOW	7.	7.	7.	6.	6.	6.	4.	3.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	SHAUM2	.01	1	FLOW	17.	16.	16.	15.	15.	15.	12.	9.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 5 COMBINED AT	DUMMY	.06	1	FLOW	135.	132.	131.	125.	122.	121.	92.	71.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	WL7	.02	1	FLOW	36.	35.	35.	33.	32.	31.	22.	16.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	WNVE2	.00	1	FLOW	3.	3.	3.	3.	2.	2.	2.	1.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	WL6	.01	1	FLOW	11.	11.	11.	10.	10.	10.	7.	5.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	HORS1A	.01	1	FLOW	19.	18.	18.	17.	17.	17.	13.	10.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 5 COMBINED AT	SH-HO	.10	1	FLOW	204.	200.	197.	188.	184.	181.	136.	104.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	DIV-3	.00	1	FLOW	53.	52.	52.	51.	50.	50.	41.	33.
				TIME	5.33	5.33	5.33	5.33	5.33	5.33	5.25	5.25
+ HYDROGRAPH AT	WL8	.01	1	FLOW	25.	24.	24.	22.	22.	21.	15.	11.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	WNVE3	.00	1	FLOW	4.	4.	4.	4.	4.	4.	2.	2.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	WL5	.04	1	FLOW	69.	67.	66.	62.	61.	60.	42.	30.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.58
+ HYDROGRAPH AT	IRON1A	.01	1	FLOW	12.	12.	12.	11.	11.	11.	9.	7.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 5 COMBINED AT	DUMMY	.06	1	FLOW	134.	131.	130.	123.	120.	119.	89.	69.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.58
+ HYDROGRAPH AT	SHAUM3	.00	1	FLOW	12.	11.	11.	11.	11.	10.	8.	6.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 3 COMBINED AT	IR-SH	.16	1	FLOW	350.	342.	338.	322.	314.	310.	232.	179.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	WML6	.03	1	FLOW	61.	59.	59.	56.	55.	54.	40.	32.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	HORS1B	.00	1	FLOW	8.	8.	8.	7.	7.	7.	6.	5.

				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT	WL4	.05	1	FLOW	82.	80.	79.	74.	72.	71.	50.	37.
+				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
3 COMBINED AT	DUMMY	.08	1	FLOW	145.	141.	140.	133.	129.	127.	92.	69.
+				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT	DIV-1	.00	1	FLOW	68.	67.	67.	65.	64.	63.	51.	43.
+				TIME	5.42	5.42	5.42	5.42	5.33	5.33	5.33	5.25
HYDROGRAPH AT	AROY1	.00	1	FLOW	5.	4.	4.	4.	4.	4.	3.	2.
+				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT	WPRK5	.00	1	FLOW	6.	6.	6.	5.	5.	5.	3.	2.
+				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT	SHEEP1	.10	1	FLOW	143.	140.	138.	131.	128.	126.	93.	71.
+				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
5 COMBINED AT	SM-IR	.19	1	FLOW	304.	297.	293.	278.	271.	267.	195.	148.
+				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT	IRON1B	.00	1	FLOW	9.	9.	9.	9.	9.	8.	7.	5.
+				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
4 COMBINED AT	HU-IR	.67	1	FLOW	1201.	1172.	1158.	1101.	1072.	1058.	775.	593.
+				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.58
HYDROGRAPH AT	OFF4-1	.30	1	FLOW	397.	386.	380.	358.	347.	342.	234.	167.
+				TIME	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75
ROUTED TO	ROFF41	.30	1	FLOW	402.	390.	385.	362.	351.	346.	235.	166.
+				TIME	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.92
HYDROGRAPH AT	OFF4-2	.42	1	FLOW	682.	662.	652.	613.	594.	584.	393.	274.
+				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT	COFF42	.72	1	FLOW	871.	844.	830.	777.	751.	737.	480.	325.
+				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.67
ROUTED TO	RCOFF4	.72	1	FLOW	866.	841.	824.	772.	749.	734.	476.	326.
+				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT	OFF5-1	.30	1	FLOW	375.	364.	358.	335.	324.	319.	209.	143.
+				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
2 COMBINED AT	COFF51	1.02	1	FLOW	1241.	1205.	1182.	1108.	1074.	1052.	685.	469.
+				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
ROUTED TO	RCOFF5	1.02	1	FLOW	1206.	1167.	1151.	1078.	1043.	1025.	682.	464.
+				TIME	3.67	3.67	3.67	3.75	3.67	3.75	3.75	3.75
HYDROGRAPH AT	OFF5-2	.40	1	FLOW	467.	454.	447.	421.	408.	401.	272.	191.
+				TIME	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75
ROUTED TO	ROFF52	.40	1	FLOW	462.	449.	441.	415.	402.	396.	267.	187.
+				TIME	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75
HYDROGRAPH AT	NW1-C	.29	1	FLOW	327.	317.	312.	291.	281.	276.	179.	121.
+				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.75
2 COMBINED AT	CNW1-C	.69	1	FLOW	780.	757.	746.	700.	677.	666.	445.	308.
+				TIME	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75
2 COMBINED AT	2CNW1C	1.70	1	FLOW	1985.	1914.	1895.	1778.	1716.	1691.	1126.	772.
+				TIME	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75
ROUTED TO	R2CNW1	1.70	1	FLOW	1975.	1904.	1886.	1766.	1706.	1676.	1109.	755.
+				TIME	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75
HYDROGRAPH AT	NW7-C	.49	1	FLOW	500.	486.	479.	450.	436.	429.	290.	204.
+				TIME	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83
2 COMBINED AT	CNW-7	2.19	1	FLOW	2473.	2388.	2363.	2213.	2140.	2103.	1394.	955.
+				TIME	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.83
ROUTED TO	RCNW7C	2.19	1	FLOW	2451.	2369.	2342.	2191.	2118.	2081.	1373.	954.
+				TIME	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.83
HYDROGRAPH AT	NW21-C	.16	1	FLOW	242.	236.	233.	221.	215.	212.	152.	114.
+				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT	CNW21C	2.35	1	FLOW	2649.	2562.	2533.	2373.	2295.	2255.	1500.	1030.
+				TIME	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.83
ROUTED TO	RCNW21	2.35	1	FLOW	2605.	2517.	2486.	2323.	2251.	2209.	1483.	1030.
+				TIME	3.75	3.75	3.75	3.75	3.75	3.75	3.83	3.83
HYDROGRAPH AT	NW35-C	.34	1	FLOW	423.	413.	407.	385.	374.	369.	260.	191.
+				TIME	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75
2 COMBINED AT	CNW35C	2.69	1	FLOW	3028.	2929.	2893.	2709.	2626.	2578.	1721.	1206.
+				TIME	3.75	3.75	3.75	3.75	3.75	3.75	3.83	3.83
2 COMBINED AT	CKC5	3.36	1	FLOW	3803.	3687.	3642.	3424.	3324.	3268.	2228.	1574.
+				TIME	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75
HYDROGRAPH AT	NW50-C	.17	1	FLOW	228.	222.	218.	205.	199.	196.	132.	93.
+				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT	CKC6	3.53	1	FLOW	3978.	3857.	3810.	3582.	3477.	3419.	2332.	1649.
+				TIME	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75

HYDROGRAPH AT	OFF1A-	1.14	1	FLOW	731.	704.	691.	637.	611.	598.	352.	213.
+				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.08	4.08
ROUTED TO	ROFF1A	1.14	1	FLOW	726.	700.	687.	635.	609.	596.	352.	211.
+				TIME	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.17
HYDROGRAPH AT	OFF1A-	.39	1	FLOW	475.	460.	453.	424.	410.	403.	264.	181.
+				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.75
2 COMBINED AT	COFF1A	1.53	1	FLOW	1007.	971.	954.	883.	848.	830.	501.	309.
+				TIME	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92
ROUTED TO	RCFF1A	1.53	1	FLOW	1002.	963.	946.	876.	845.	824.	502.	310.
+				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
HYDROGRAPH AT	OFF1A-	.30	1	FLOW	328.	318.	312.	292.	282.	277.	179.	120.
+				TIME	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75
2 COMBINED AT	COFF1A	1.83	1	FLOW	1276.	1225.	1204.	1118.	1075.	1051.	648.	407.
+				TIME	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92
ROUTED TO	RCFF1A	1.83	1	FLOW	1259.	1219.	1192.	1107.	1065.	1048.	648.	408.
+				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
HYDROGRAPH AT	OFF1A-	.27	1	FLOW	261.	252.	248.	230.	222.	217.	134.	84.
+				TIME	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75
2 COMBINED AT	COFF1A	2.11	1	FLOW	1464.	1415.	1387.	1287.	1236.	1216.	749.	469.
+				TIME	3.92	3.92	3.92	3.92	3.92	3.92	3.92	4.00
ROUTED TO	RCFF1A	2.11	1	FLOW	1466.	1418.	1390.	1289.	1238.	1219.	750.	475.
+				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.08
HYDROGRAPH AT	OFF1A-	.42	1	FLOW	334.	322.	317.	293.	282.	276.	166.	102.
+				TIME	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83
2 COMBINED AT	COFF1A	2.53	1	FLOW	1740.	1682.	1650.	1531.	1470.	1447.	891.	552.
+				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.08
ROUTED TO	ROFF1A	2.53	1	FLOW	1739.	1680.	1641.	1524.	1463.	1439.	878.	550.
+				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.08	4.08
HYDROGRAPH AT	OFF2A	.32	1	FLOW	269.	260.	255.	236.	226.	222.	132.	81.
+				TIME	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75
2 COMBINED AT	COFF2A	2.84	1	FLOW	1923.	1858.	1817.	1687.	1620.	1593.	963.	602.
+				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.08
ROUTED TO	RCOFF2	2.84	1	FLOW	1913.	1847.	1801.	1667.	1606.	1568.	963.	598.
+				TIME	4.00	4.00	4.00	4.00	4.00	4.08	4.08	4.17
HYDROGRAPH AT	OFF3	.22	1	FLOW	190.	183.	180.	166.	160.	156.	94.	57.
+				TIME	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75
2 COMBINED AT	COFF3	3.07	1	FLOW	2030.	1960.	1912.	1770.	1705.	1664.	1013.	625.
+				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.08	4.17
ROUTED TO	RCOFF3	3.07	1	FLOW	2016.	1945.	1898.	1754.	1689.	1650.	1006.	622.
+				TIME	4.00	4.00	4.00	4.00	4.00	4.08	4.08	4.17
HYDROGRAPH AT	OFF2B	.16	1	FLOW	133.	128.	126.	116.	111.	108.	62.	35.
+				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
2 COMBINED AT	COFF2B	3.23	1	FLOW	2079.	2005.	1958.	1810.	1743.	1698.	1032.	636.
+				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.08	4.17
ROUTED TO	RCOFF2	3.23	1	FLOW	2066.	1992.	1945.	1796.	1728.	1692.	1024.	632.
+				TIME	4.00	4.00	4.00	4.00	4.00	4.08	4.08	4.17
HYDROGRAPH AT	OFF1A-	.47	1	FLOW	313.	301.	295.	271.	259.	254.	144.	82.
+				TIME	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83
2 COMBINED AT	COFF1A	3.70	1	FLOW	2327.	2243.	2192.	2024.	1946.	1896.	1132.	689.
+				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.08	4.17
ROUTED TO	RCFF1A	3.70	1	FLOW	2314.	2229.	2179.	2009.	1929.	1880.	1123.	684.
+				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.08	4.17
HYDROGRAPH AT	NW2-C	.40	1	FLOW	334.	323.	317.	296.	285.	279.	176.	114.
+				TIME	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83
ROUTED TO	RNW2-C	.40	1	FLOW	333.	318.	315.	291.	283.	274.	175.	112.
+				TIME	3.83	3.83	3.83	3.83	3.83	3.83	3.92	3.92
HYDROGRAPH AT	NW5-C	.27	1	FLOW	180.	173.	170.	157.	151.	148.	88.	54.
+				TIME	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92
2 COMBINED AT	CNW5-C	.67	1	FLOW	512.	490.	484.	447.	433.	421.	263.	165.
+				TIME	3.83	3.83	3.83	3.83	3.83	3.92	3.92	3.92
2 COMBINED AT	2CNW5-	4.37	1	FLOW	2783.	2681.	2623.	2422.	2330.	2272.	1343.	810.
+				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.08	4.17
ROUTED TO	RCNW5-	4.37	1	FLOW	2776.	2670.	2614.	2411.	2317.	2258.	1337.	807.
+				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.08	4.17
HYDROGRAPH AT	NW9-C	.27	1	FLOW	302.	294.	289.	272.	263.	259.	175.	122.
+				TIME	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75
ROUTED TO	RNW9-C	.27	1	FLOW	302.	294.	290.	273.	264.	260.	176.	123.
+				TIME	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83

+ HYDROGRAPH AT	NW11-C	.27	1	FLOW	223.	216.	212.	196.	189.	185.	112.	70.
				TIME	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75
+ 2 COMBINED AT	CNW11-	.54	1	FLOW	522.	506.	497.	464.	448.	439.	281.	190.
				TIME	3.75	3.75	3.75	3.75	3.75	3.75	3.83	3.83
+ 2 COMBINED AT	2CNW11	4.91	1	FLOW	3149.	3032.	2971.	2746.	2641.	2577.	1514.	910.
				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.08	4.08
+ ROUTED TO	RCNW11	4.91	1	FLOW	3145.	3028.	2967.	2741.	2635.	2571.	1512.	909.
				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.08	4.17
+ HYDROGRAPH AT	NW17-C	.43	1	FLOW	400.	388.	382.	359.	347.	341.	227.	156.
				TIME	3.75	3.83	3.83	3.83	3.83	3.83	3.83	3.83
+ 2 COMBINED AT	CNW17-	5.34	1	FLOW	3471.	3340.	3275.	3030.	2914.	2846.	1672.	1010.
				TIME	3.92	4.00	4.00	4.00	4.00	4.00	4.00	4.08
+ ROUTED TO	RCNW17	5.34	1	FLOW	3466.	3339.	3273.	3028.	2910.	2841.	1668.	1004.
				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.08	4.17
+ HYDROGRAPH AT	NW23-C	.38	1	FLOW	370.	359.	354.	332.	321.	316.	210.	145.
				TIME	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75
+ 2 COMBINED AT	CNW23-	5.71	1	FLOW	3763.	3620.	3551.	3271.	3144.	3072.	1814.	1096.
				TIME	3.92	3.92	3.92	3.92	4.00	4.00	4.00	4.08
+ ROUTED TO	RCNW23	5.71	1	FLOW	3737.	3601.	3531.	3269.	3141.	3069.	1800.	1089.
				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.08	4.08
+ HYDROGRAPH AT	NW51-C	.50	1	FLOW	500.	485.	478.	449.	434.	427.	285.	198.
				TIME	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.83
+ 2 COMBINED AT	CNW51-	6.21	1	FLOW	4172.	4019.	3943.	3637.	3485.	3408.	2021.	1221.
				TIME	3.92	3.92	3.92	3.92	3.92	3.92	4.00	4.08
+ HYDROGRAPH AT	202	5.55	1	FLOW	6455.	6256.	6157.	5763.	5567.	5469.	3567.	2410.
				TIME	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92
+ ROUTED TO	R202	5.55	1	FLOW	6180.	5988.	5892.	5510.	5320.	5226.	3388.	2284.
				TIME	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.17
+ HYDROGRAPH AT	203	6.41	1	FLOW	6508.	6305.	6204.	5802.	5602.	5503.	3568.	2408.
				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.08
+ HYDROGRAPH AT	204	2.71	1	FLOW	2705.	2620.	2578.	2410.	2326.	2285.	1476.	988.
				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
+ 3 COMBINED AT	C203	14.67	1	FLOW	15193.	14724.	14490.	13559.	13096.	12865.	8375.	5649.
				TIME	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08
+ ROUTED TO	RC203	14.67	1	FLOW	14023.	13590.	13374.	12513.	12085.	11872.	7724.	5207.
				TIME	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
+ HYDROGRAPH AT	209-A	5.20	1	FLOW	2197.	2104.	2057.	1875.	1785.	1740.	933.	508.
				TIME	4.42	4.42	4.42	4.42	4.42	4.42	4.50	4.58
+ 2 COMBINED AT	C209-A	19.86	1	FLOW	16209.	15684.	15422.	14382.	13866.	13609.	8657.	5711.
				TIME	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
+ HYDROGRAPH AT	210-C	12.04	1	FLOW	6558.	6330.	6217.	5767.	5544.	5433.	3315.	2082.
				TIME	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.58
+ 2 COMBINED AT	C210-C	31.91	1	FLOW	22767.	22014.	21639.	20149.	19410.	19042.	11972.	7793.
				TIME	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
+ ROUTED TO	RC210-	31.91	1	FLOW	22508.	21763.	21392.	19917.	19186.	18822.	11827.	7694.
				TIME	4.58	4.58	4.58	4.58	4.58	4.58	4.58	4.58
+ HYDROGRAPH AT	210-A	2.52	1	FLOW	1783.	1719.	1687.	1561.	1498.	1467.	875.	539.
				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.08
+ 2 COMBINED AT	C210-A	34.43	1	FLOW	23430.	22644.	22253.	20708.	19948.	19570.	12300.	8003.
				TIME	4.50	4.50	4.50	4.58	4.58	4.58	4.58	4.58
+ ROUTED TO	RC210-	34.43	1	FLOW	23113.	22340.	21955.	20425.	19667.	19289.	12085.	7873.
				TIME	4.67	4.67	4.67	4.67	4.67	4.67	4.75	4.75
+ HYDROGRAPH AT	209-B	1.62	1	FLOW	671.	640.	625.	566.	537.	522.	261.	130.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.25
+ 2 COMBINED AT	C209-B	36.05	1	FLOW	23523.	22734.	22340.	20778.	20003.	19618.	12258.	7970.
				TIME	4.67	4.67	4.67	4.67	4.67	4.67	4.75	4.75
+ ROUTED TO	RC209-	36.05	1	FLOW	22532.	21781.	21407.	19919.	19182.	18815.	11773.	7625.
				TIME	5.08	5.08	5.08	5.08	5.08	5.08	5.08	5.08
+ HYDROGRAPH AT	213A-1	2.97	1	FLOW	1405.	1353.	1327.	1224.	1174.	1148.	675.	407.
				TIME	4.33	4.33	4.33	4.33	4.33	4.33	4.42	4.42
+ 2 COMBINED AT	C213A-	39.02	1	FLOW	23452.	22669.	22280.	20732.	19965.	19583.	12254.	7936.
				TIME	5.08	5.08	5.08	5.08	5.08	5.08	5.08	5.08
+ ROUTED TO	RC213A	39.02	1	FLOW	23498.	22706.	22259.	20708.	19946.	19553.	12195.	7925.
				TIME	5.08	5.08	5.08	5.08	5.08	5.08	5.08	5.17
+ HYDROGRAPH AT	213A-2	.50	1	FLOW	419.	405.	397.	369.	354.	347.	211.	131.
				TIME	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83
+ 2 COMBINED AT	C213A-	39.52	1	FLOW	23620.	22824.	22376.	20818.	20052.	19657.	12266.	7970.
				TIME	5.08	5.08	5.08	5.08	5.08	5.08	5.08	5.17
ROUTED TO												

+	RC213A	39.52	1	FLOW	23540.	22748.	22300.	20737.	19964.	19573.	12247.	7942.
				TIME	5.08	5.08	5.08	5.08	5.08	5.08	5.17	5.17
+ HYDROGRAPH AT	213A-3	.37	1	FLOW	324.	312.	307.	284.	273.	267.	160.	100.
				TIME	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.83
+ 2 COMBINED AT	C213A-	39.89	1	FLOW	23628.	22834.	22384.	20816.	20041.	19648.	12292.	7973.
				TIME	5.08	5.08	5.08	5.08	5.08	5.08	5.17	5.17
+ ROUTED TO	RC213A	39.89	1	FLOW	23532.	22734.	22293.	20750.	19995.	19598.	12266.	7934.
				TIME	5.08	5.17	5.17	5.17	5.17	5.17	5.17	5.25
+ HYDROGRAPH AT	213A-4	.25	1	FLOW	221.	213.	209.	193.	186.	182.	109.	67.
				TIME	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75
+ 2 COMBINED AT	C213A-	40.14	1	FLOW	23588.	22785.	22338.	20793.	20036.	19638.	12294.	7952.
				TIME	5.08	5.08	5.17	5.17	5.17	5.17	5.17	5.17
+ ROUTED TO	RC213A	40.14	1	FLOW	23064.	22287.	21859.	20348.	19606.	19218.	12019.	7782.
				TIME	5.33	5.42	5.42	5.42	5.42	5.42	5.42	5.50
+ HYDROGRAPH AT	213A-5	2.06	1	FLOW	914.	878.	860.	790.	755.	738.	419.	242.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.25	4.25
+ 2 COMBINED AT	C213A-	42.20	1	FLOW	23505.	22705.	22261.	20716.	19961.	19566.	12241.	7918.
				TIME	5.33	5.33	5.33	5.42	5.42	5.42	5.42	5.50
+ ROUTED TO	RC213A	42.20	1	FLOW	23477.	22687.	22250.	20705.	19944.	19551.	12196.	7914.
				TIME	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.50
+ HYDROGRAPH AT	213A-1	.25	1	FLOW	376.	367.	363.	346.	338.	333.	247.	191.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
+ 2 COMBINED AT	C213A-	42.45	1	FLOW	23500.	22710.	22273.	20726.	19966.	19572.	12212.	7924.
				TIME	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.50
+ ROUTED TO	RC13A-	42.45	1	FLOW	23472.	22679.	22240.	20687.	19923.	19530.	12181.	7904.
				TIME	5.42	5.42	5.42	5.42	5.42	5.42	5.50	5.50
+ HYDROGRAPH AT	213A-1	.26	1	FLOW	376.	368.	364.	347.	338.	334.	248.	193.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
+ 2 COMBINED AT	C213A-	42.71	1	FLOW	23494.	22701.	22262.	20708.	19943.	19550.	12193.	7913.
				TIME	5.42	5.42	5.42	5.42	5.42	5.42	5.50	5.50
+ ROUTED TO	RC13A-	42.71	1	FLOW	23426.	22634.	22194.	20631.	19864.	19473.	12180.	7881.
				TIME	5.42	5.42	5.42	5.42	5.42	5.42	5.50	5.58
+ HYDROGRAPH AT	213B-6	.24	1	FLOW	349.	341.	337.	321.	313.	309.	230.	178.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
+ 2 COMBINED AT	C213B-	42.95	1	FLOW	23447.	22656.	22215.	20651.	19883.	19493.	12191.	7888.
				TIME	5.42	5.42	5.42	5.42	5.42	5.42	5.50	5.58
+ ROUTED TO	RC213B	42.95	1	FLOW	23410.	22620.	22177.	20613.	19844.	19454.	12176.	7887.
				TIME	5.42	5.42	5.42	5.42	5.42	5.42	5.50	5.58
+ 2 COMBINED AT	2C213A	49.16	1	FLOW	24570.	23749.	23291.	21665.	20866.	20460.	12803.	8315.
				TIME	5.42	5.42	5.42	5.42	5.42	5.42	5.50	5.50
+ ROUTED TO	RC213A	49.16	1	FLOW	24529.	23711.	23248.	21619.	20820.	20413.	12788.	8297.
				TIME	5.42	5.42	5.42	5.42	5.42	5.42	5.50	5.58
+ HYDROGRAPH AT	213B-7	.25	1	FLOW	315.	308.	304.	290.	282.	279.	206.	158.
				TIME	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75
+ 2 COMBINED AT	C213B-	49.41	1	FLOW	24558.	23739.	23277.	21647.	20846.	20439.	12804.	8307.
				TIME	5.42	5.42	5.42	5.42	5.42	5.42	5.50	5.58
+ HYDROGRAPH AT	213B-1	.26	1	FLOW	394.	385.	380.	363.	354.	349.	259.	201.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
+ ROUTED TO	RC213B	.26	1	FLOW	381.	374.	374.	351.	347.	344.	253.	195.
				TIME	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75
+ HYDROGRAPH AT	213B-2	.26	1	FLOW	392.	384.	379.	362.	353.	348.	259.	201.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
+ 2 COMBINED AT	C213B-	.52	1	FLOW	763.	750.	742.	702.	689.	678.	502.	384.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
+ ROUTED TO	RC213B	.52	1	FLOW	752.	738.	734.	691.	685.	675.	494.	386.
				TIME	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75
+ HYDROGRAPH AT	213B-3	.25	1	FLOW	372.	364.	359.	343.	334.	330.	245.	190.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
+ 2 COMBINED AT	C213B-	.78	1	FLOW	1093.	1071.	1064.	1006.	992.	978.	720.	562.
				TIME	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75
+ ROUTED TO	RC213B	.78	1	FLOW	1085.	1067.	1054.	1000.	979.	961.	708.	544.
				TIME	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75
+ HYDROGRAPH AT	213B-4	.25	1	FLOW	363.	354.	350.	334.	326.	321.	239.	185.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
+ 2 COMBINED AT	C213B-	1.03	1	FLOW	1425.	1400.	1384.	1314.	1286.	1264.	934.	720.
				TIME	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75
+ ROUTED TO	RC213B	1.03	1	FLOW	1399.	1375.	1357.	1289.	1257.	1239.	909.	705.
				TIME	3.75	3.75	3.75	3.75	3.75	3.75	3.83	3.83
+ 2 COMBINED AT	2C213B	50.44	1	FLOW	24726.	23904.	23440.	21803.	21000.	20591.	12900.	8373.

				TIME	5.42	5.42	5.42	5.42	5.42	5.42	5.50	5.50
+ ROUTED TO	RC213B	50.44	1	FLOW	24686.	23861.	23397.	21758.	20956.	20544.	12883.	8370.
				TIME	5.42	5.42	5.42	5.42	5.42	5.42	5.50	5.58
+ HYDROGRAPH AT	213B-5	.24	1	FLOW	311.	303.	300.	285.	278.	274.	202.	155.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.75	3.75
+ 2 COMBINED AT	C213B5	50.68	1	FLOW	24711.	23886.	23421.	21782.	20979.	20566.	12896.	8378.
				TIME	5.42	5.42	5.42	5.42	5.42	5.42	5.50	5.58
+ HYDROGRAPH AT	OFFT	.02	1	FLOW	26.	25.	25.	24.	23.	23.	16.	12.
				TIME	3.50	3.50	3.50	3.50	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	SHEEP2	.06	1	FLOW	76.	73.	72.	68.	65.	64.	42.	29.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	SHEEP3	.01	1	FLOW	17.	17.	17.	16.	15.	15.	10.	7.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	EMLA2	.14	1	FLOW	184.	180.	177.	168.	163.	161.	115.	86.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
+ 5 COMBINED AT	DUMMY	50.91	1	FLOW	24725.	23899.	23435.	21795.	20992.	20579.	12904.	8383.
				TIME	5.42	5.42	5.42	5.42	5.42	5.42	5.50	5.58
+ HYDROGRAPH AT	ENVE1	.03	1	FLOW	24.	23.	22.	20.	19.	19.	10.	6.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.75
+ HYDROGRAPH AT	OFFZ	.05	1	FLOW	69.	67.	66.	62.	60.	59.	40.	28.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	HUAL3	.00	1	FLOW	6.	6.	6.	6.	6.	6.	4.	4.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ 5 COMBINED AT	SH-MO	54.53	1	FLOW	25367.	24530.	24059.	22393.	21578.	21159.	13296.	8665.
				TIME	5.42	5.42	5.42	5.42	5.42	5.42	5.50	5.50
+ HYDROGRAPH AT	SKY3	.01	1	FLOW	12.	12.	12.	12.	11.	11.	9.	7.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	95-6	.01	1	FLOW	19.	18.	18.	17.	17.	16.	12.	9.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	OFFH	.01	1	FLOW	14.	14.	13.	13.	12.	12.	9.	7.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 3 COMBINED AT	SK-IR	.02	1	FLOW	44.	43.	43.	41.	40.	39.	29.	22.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	EML1A	.03	1	FLOW	47.	46.	45.	43.	42.	41.	30.	22.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	IRON2	.00	1	FLOW	10.	9.	9.	9.	9.	9.	7.	5.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	EMLA1B	.02	1	FLOW	43.	42.	41.	39.	38.	38.	28.	22.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	TP2	.00	1	FLOW	2.	2.	2.	2.	2.	2.	1.	1.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 5 COMBINED AT	IR-TP	.08	1	FLOW	144.	141.	139.	132.	129.	127.	93.	71.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	ES1	.02	1	FLOW	29.	28.	28.	27.	26.	25.	18.	14.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	IRON3	.00	1	FLOW	5.	5.	5.	5.	5.	4.	3.	3.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 3 COMBINED AT	IR-FT	.10	1	FLOW	178.	174.	172.	163.	159.	157.	115.	88.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ DIVERSION TO	IREAST	.10	1	FLOW	118.	117.	116.	114.	113.	113.	102.	88.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	FTNOR	.10	1	FLOW	60.	57.	55.	49.	46.	44.	13.	0.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	.00
+ HYDROGRAPH AT	RETD1B	.00	1	FLOW	51.	50.	49.	47.	46.	45.	32.	24.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	RETD2B	.00	1	FLOW	50.	49.	48.	46.	44.	44.	32.	24.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	OFF9	.04	1	FLOW	62.	61.	60.	57.	55.	55.	39.	29.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ 3 COMBINED AT	COFF9	.04	1	FLOW	153.	150.	148.	140.	136.	134.	96.	72.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	OFFS	.01	1	FLOW	18.	18.	18.	17.	16.	16.	11.	8.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	SKY4	.01	1	FLOW	16.	16.	16.	15.	15.	15.	11.	9.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ 3 COMBINED AT	LC-SK	.06	1	FLOW	186.	181.	179.	170.	165.	163.	117.	88.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	EML1B	.07	1	FLOW	120.	117.	116.	110.	107.	106.	76.	57.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58

+ HYDROGRAPH AT	ESCHL1	.02	1	FLOW	29.	28.	27.	26.	25.	24.	15.	10.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	EPRK1	.01	1	FLOW	6.	6.	6.	5.	5.	4.	2.	1.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.75
+ HYDROGRAPH AT	STRT6	.01	1	FLOW	10.	10.	10.	9.	9.	9.	7.	6.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	EML2A	.07	1	FLOW	106.	103.	102.	97.	94.	93.	67.	50.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ 5 COMBINED AT	DUMMY	.18	1	FLOW	272.	264.	261.	247.	240.	236.	167.	123.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	TP3	.01	1	FLOW	11.	10.	10.	10.	10.	10.	7.	6.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
+ HYDROGRAPH AT	TP4A	.00	1	FLOW	5.	5.	5.	5.	5.	5.	4.	3.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	LOG1	.01	1	FLOW	15.	15.	15.	14.	14.	13.	10.	8.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 5 COMBINED AT	LC-TP	.26	1	FLOW	480.	468.	462.	438.	426.	420.	302.	226.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	EL1	.12	1	FLOW	110.	106.	104.	96.	93.	91.	55.	35.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.67	3.67
+ HYDROGRAPH AT	LOG2	.00	1	FLOW	9.	9.	9.	9.	8.	8.	6.	5.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	FORT1	.01	1	FLOW	14.	14.	14.	13.	13.	13.	10.	8.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
+ 5 COMBINED AT	FT-LC	.49	1	FLOW	661.	642.	633.	594.	575.	566.	378.	271.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ DIVERSION TO	OHARE	.49	1	FLOW	49.	47.	46.	41.	39.	37.	14.	0.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	.00
+ HYDROGRAPH AT	RFTLC	.49	1	FLOW	612.	595.	587.	553.	537.	528.	364.	271.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ DIVERSION TO	LOGCAB	.49	1	FLOW	193.	187.	184.	172.	166.	164.	106.	73.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	R2FTLC	.49	1	FLOW	419.	408.	403.	381.	370.	365.	258.	198.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	EML2B	.04	1	FLOW	66.	65.	64.	61.	59.	58.	42.	31.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	TP4B	.00	1	FLOW	7.	7.	7.	7.	7.	7.	5.	4.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	EML3	.06	1	FLOW	90.	88.	87.	82.	80.	79.	56.	42.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	STRT7	.00	1	FLOW	8.	8.	8.	8.	8.	8.	6.	5.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 5 COMBINED AT	DUMMY	.60	1	FLOW	588.	573.	565.	535.	520.	513.	365.	278.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	EML4	.07	1	FLOW	112.	109.	108.	102.	100.	98.	70.	52.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	ENVE2	.01	1	FLOW	11.	11.	11.	10.	9.	9.	5.	3.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.67
+ HYDROGRAPH AT	FORT2	.01	1	FLOW	14.	13.	13.	13.	12.	12.	9.	8.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
+ 4 COMBINED AT	FT-MO	.70	1	FLOW	724.	705.	696.	659.	641.	632.	449.	340.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ 2 COMBINED AT	CP43	55.23	1	FLOW	25392.	24553.	24082.	22416.	21600.	21181.	13309.	8676.
				TIME	5.42	5.42	5.42	5.42	5.42	5.42	5.50	5.50
+ HYDROGRAPH AT	95-7A	.01	1	FLOW	14.	14.	13.	13.	13.	12.	9.	7.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	95-7B	.01	1	FLOW	16.	15.	15.	15.	14.	14.	10.	8.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	95-8A	.01	1	FLOW	11.	11.	11.	10.	10.	10.	7.	6.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	95-8B	.00	1	FLOW	7.	7.	7.	6.	6.	6.	4.	3.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 4 COMBINED AT	C95-8B	.02	1	FLOW	47.	46.	46.	44.	43.	42.	31.	24.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	SKY2	.01	1	FLOW	16.	15.	15.	14.	14.	14.	11.	9.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	EMLA1A	.01	1	FLOW	27.	26.	26.	25.	24.	24.	18.	14.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50

HYDROGRAPH AT	TP1	.00	1	FLOW	2.	2.	2.	2.	2.	2.	1.	1.
+				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
4 COMBINED AT	BR-TP	.05	1	FLOW	92.	90.	89.	85.	83.	82.	61.	48.
+				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT	ES2	.05	1	FLOW	84.	82.	81.	77.	75.	74.	55.	43.
+				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT	BRENT1	.00	1	FLOW	4.	4.	4.	4.	4.	4.	3.	2.
+				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT	EGC3	.02	1	FLOW	44.	43.	42.	40.	39.	39.	29.	23.
+				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT	HORSE5	.00	1	FLOW	11.	11.	11.	11.	10.	10.	8.	6.
+				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
5 COMBINED AT	CP44	.12	1	FLOW	228.	223.	220.	210.	205.	202.	151.	118.
+				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
DIVERSION TO	BRENT	.12	1	FLOW	178.	173.	170.	160.	155.	152.	101.	68.
+				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT	SOUTH	.12	1	FLOW	50.	50.	50.	50.	50.	50.	50.	50.
+				TIME	3.33	3.33	3.33	3.33	3.42	3.42	3.50	3.50
HYDROGRAPH AT	SKY1	.01	1	FLOW	16.	16.	16.	15.	15.	15.	11.	9.
+				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT	HORSE4	.00	1	FLOW	9.	8.	8.	8.	8.	8.	6.	5.
+				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT	EGC1	.01	1	FLOW	17.	16.	16.	15.	15.	15.	11.	9.
+				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT	EGC2	.01	1	FLOW	24.	24.	24.	22.	22.	22.	16.	13.
+				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
5 COMBINED AT	DUMMY	.15	1	FLOW	116.	115.	114.	111.	110.	109.	95.	85.
+				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT	95-9B	.01	1	FLOW	23.	22.	22.	21.	21.	20.	15.	12.
+				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT	CP45	.17	1	FLOW	138.	136.	135.	131.	129.	128.	109.	96.
+				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
DIVERSION TO	RACEL	.17	1	FLOW	101.	101.	101.	101.	101.	101.	101.	96.
+				TIME	3.33	3.33	3.42	3.42	3.42	3.42	3.50	3.50
HYDROGRAPH AT	HORSE	.17	1	FLOW	37.	35.	34.	30.	28.	27.	8.	0.
+				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	.00

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SUMMARY OF KINEMATIC WAVE - MUSKINGUM-CUNGE ROUTING
(FLOW IS DIRECT RUNOFF WITHOUT BASE FLOW)

ISTAQ	ELEMENT	DT	PEAK	TIME TO PEAK	VOLUME	DT	INTERPOLATED TO COMPUTATION INTERVAL PEAK	TIME TO PEAK	VOLUME
		(MIN)	(CFS)	(MIN)	(IN)	(MIN)	(CFS)	(MIN)	(IN)
FOR PLAN = 1 RATIO= 1.00									
	RCD1C MANE	5.00	5.67	221.08	.16	5.00	5.16	220.00	.16

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3238E+00 EXCESS= .0000E+00 OUTFLOW= .3523E+00 BASIN STORAGE= .1286E-03 PERCENT ERROR= -8.8

FOR PLAN = 1 RATIO= .98									
	RCD1C MANE	5.00	5.11	219.85	.15	5.00	5.11	220.00	.15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3150E+00 EXCESS= .0000E+00 OUTFLOW= .3298E+00 BASIN STORAGE= .1227E-03 PERCENT ERROR= -4.7

FOR PLAN = 1 RATIO= .97									
	RCD1C MANE	5.00	5.16	220.26	.15	5.00	5.04	220.00	.15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3106E+00 EXCESS= .0000E+00 OUTFLOW= .3258E+00 BASIN STORAGE= .1231E-03 PERCENT ERROR= -4.9

FOR PLAN = 1 RATIO= .93									
	RCD1C MANE	5.00	4.93	223.66	.14	5.00	4.64	225.00	.14

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2932E+00 EXCESS= .0000E+00 OUTFLOW= .3030E+00 BASIN STORAGE= .1264E-03 PERCENT ERROR= -3.4

FOR PLAN = 1 RATIO= .91									
	RCD1C MANE	5.00	4.66	225.48	.13	5.00	4.59	225.00	.13

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2845E+00 EXCESS= .0000E+00 OUTFLOW= .2939E+00 BASIN STORAGE= .1102E-03 PERCENT ERROR= -3.4

FOR PLAN = 1 RATIO= .90									
	RCD1C MANE	5.00	4.29	226.36	.13	5.00	4.22	225.00	.13

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2801E+00 EXCESS= .0000E+00 OUTFLOW= .2856E+00 BASIN STORAGE= .1289E-03 PERCENT ERROR= -2.0

FOR PLAN = 1 RATIO= .70									
	RCD1C MANE	4.95	3.43	226.03	.09	5.00	3.07	225.00	.09

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1951E+00 EXCESS= .0000E+00 OUTFLOW= .2013E+00 BASIN STORAGE= .1055E-03 PERCENT ERROR= -3.2

FOR PLAN = 1 RATIO= .57									
	RCD1C MANE	5.00	2.44	230.11	.07	5.00	2.42	230.00	.07

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1422E+00 EXCESS= .0000E+00 OUTFLOW= .1470E+00 BASIN STORAGE= .1296E-03 PERCENT ERROR= -3.5

FOR PLAN = 1 RATIO= .00
RNW29C MANE 1.16 200.70 216.99 2.20 5.00 199.82 220.00 2.20

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1547E+02 EXCESS= .0000E+00 OUTFLOW= .1547E+02 BASIN STORAGE= .1101E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RNW29C MANE 1.17 195.60 216.78 2.14 5.00 195.08 220.00 2.14

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1507E+02 EXCESS= .0000E+00 OUTFLOW= .1507E+02 BASIN STORAGE= .1164E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RNW29C MANE 1.18 193.06 216.68 2.11 5.00 192.77 220.00 2.12

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1487E+02 EXCESS= .0000E+00 OUTFLOW= .1487E+02 BASIN STORAGE= .1183E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RNW29C MANE 1.20 183.62 219.98 2.00 5.00 183.59 220.00 2.00

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1408E+02 EXCESS= .0000E+00 OUTFLOW= .1408E+02 BASIN STORAGE= .1103E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RNW29C MANE 1.21 178.86 219.91 1.94 5.00 178.72 220.00 1.95

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1368E+02 EXCESS= .0000E+00 OUTFLOW= .1368E+02 BASIN STORAGE= .1120E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RNW29C MANE 1.22 176.46 219.89 1.91 5.00 176.30 220.00 1.92

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1348E+02 EXCESS= .0000E+00 OUTFLOW= .1348E+02 BASIN STORAGE= .1152E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RNW29C MANE 1.39 127.40 220.84 1.36 5.00 126.98 220.00 1.36

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9562E+01 EXCESS= .0000E+00 OUTFLOW= .9563E+01 BASIN STORAGE= .1193E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RNW29C MANE 1.55 95.94 220.65 1.01 5.00 95.76 220.00 1.01

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7101E+01 EXCESS= .0000E+00 OUTFLOW= .7101E+01 BASIN STORAGE= .1210E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCNW71 MANE 2.94 355.46 220.39 2.17 5.00 354.10 220.00 2.17

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2731E+02 EXCESS= .0000E+00 OUTFLOW= .2733E+02 BASIN STORAGE= .3491E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00
RCNW71 MANE 2.97 345.10 219.57 2.11 5.00 344.48 220.00 2.11

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2660E+02 EXCESS= .0000E+00 OUTFLOW= .2662E+02 BASIN STORAGE= .4070E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00
RCNW71 MANE 2.98 342.49 220.64 2.09 5.00 340.66 220.00 2.09

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2625E+02 EXCESS= .0000E+00 OUTFLOW= .2627E+02 BASIN STORAGE= .4628E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00
RCNW71 MANE 3.04 322.83 222.04 1.98 5.00 322.13 220.00 1.97

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2485E+02 EXCESS= .0000E+00 OUTFLOW= .2486E+02 BASIN STORAGE= .3489E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00
RCNW71 MANE 3.07 316.43 221.36 1.92 5.00 314.51 220.00 1.92

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2415E+02 EXCESS= .0000E+00 OUTFLOW= .2416E+02 BASIN STORAGE= .3970E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00
RCNW71 MANE 3.09 310.02 219.48 1.89 5.00 309.77 220.00 1.89

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2379E+02 EXCESS= .0000E+00 OUTFLOW= .2381E+02 BASIN STORAGE= .4236E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00
RCNW71 MANE 3.52 224.69 221.80 1.34 5.00 222.14 220.00 1.34

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1687E+02 EXCESS= .0000E+00 OUTFLOW= .1688E+02 BASIN STORAGE= .4211E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00
RCNW71 MANE 3.94 167.37 220.66 .99 5.00 164.87 220.00 .99

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1251E+02 EXCESS= .0000E+00 OUTFLOW= .1252E+02 BASIN STORAGE= .4172E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00
ROFF41 MANE 5.00 401.70 230.00 2.08 5.00 401.70 230.00 2.08

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3333E+02 EXCESS= .0000E+00 OUTFLOW= .3335E+02 BASIN STORAGE= .1750E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00
ROFF41 MANE 5.00 390.47 230.00 2.02 5.00 390.47 230.00 2.02

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3236E+02 EXCESS= .0000E+00 OUTFLOW= .3237E+02 BASIN STORAGE= .2744E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00
ROFF41 MANE 5.00 384.86 230.00 1.99 5.00 384.86 230.00 1.99

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3187E+02 EXCESS= .0000E+00 OUTFLOW= .3189E+02 BASIN STORAGE= .2723E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00
ROFF41 MANE 5.00 362.42 230.00 1.87 5.00 362.42 230.00 1.87

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2994E+02 EXCESS= .0000E+00 OUTFLOW= .2996E+02 BASIN STORAGE= .2637E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00

ROFF41	MANE	5.00	351.22	230.00	1.81	5.00	351.22	230.00	1.81

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2899E+02 EXCESS= .0000E+00 OUTFLOW= .2900E+02 BASIN STORAGE= .2593E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00

ROFF41	MANE	5.00	345.62	230.00	1.78	5.00	345.62	230.00	1.78

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2851E+02 EXCESS= .0000E+00 OUTFLOW= .2853E+02 BASIN STORAGE= .2571E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00

ROFF41	MANE	5.00	235.01	230.00	1.20	5.00	235.01	230.00	1.20

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1923E+02 EXCESS= .0000E+00 OUTFLOW= .1925E+02 BASIN STORAGE= .2167E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00

ROFF41	MANE	5.00	166.38	235.00	.85	5.00	166.38	235.00	.85

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1358E+02 EXCESS= .0000E+00 OUTFLOW= .1360E+02 BASIN STORAGE= .1829E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00

RCOFF4	MANE	3.24	865.73	220.01	1.97	5.00	865.68	220.00	1.97

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7577E+02 EXCESS= .0000E+00 OUTFLOW= .7578E+02 BASIN STORAGE= .1079E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOFF4	MANE	3.26	842.05	221.73	1.91	5.00	840.86	220.00	1.91

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7352E+02 EXCESS= .0000E+00 OUTFLOW= .7352E+02 BASIN STORAGE= .9388E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOFF4	MANE	3.27	825.35	219.35	1.88	5.00	824.16	220.00	1.88

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7236E+02 EXCESS= .0000E+00 OUTFLOW= .7237E+02 BASIN STORAGE= .1105E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOFF4	MANE	3.33	772.80	219.69	1.77	5.00	772.08	220.00	1.77

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6788E+02 EXCESS= .0000E+00 OUTFLOW= .6788E+02 BASIN STORAGE= .9246E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOFF4	MANE	3.36	752.34	221.60	1.71	5.00	749.29	220.00	1.71

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6567E+02 EXCESS= .0000E+00 OUTFLOW= .6567E+02 BASIN STORAGE= .1193E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOFF4	MANE	3.37	734.27	219.22	1.68	5.00	733.69	220.00	1.68

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6454E+02 EXCESS= .0000E+00 OUTFLOW= .6455E+02 BASIN STORAGE= .9505E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOFF4	MANE	3.76	482.18	221.57	1.12	5.00	476.02	220.00	1.12

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4305E+02 EXCESS= .0000E+00 OUTFLOW= .4306E+02 BASIN STORAGE= .1196E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOFF4	MANE	4.14	330.33	223.45	.78	5.00	326.15	220.00	.78

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3008E+02 EXCESS= .0000E+00 OUTFLOW= .3009E+02 BASIN STORAGE= .1165E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOFF5	MANE	2.25	1228.06	222.36	1.90	5.00	1205.92	220.00	1.90

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1033E+03 EXCESS= .0000E+00 OUTFLOW= .1033E+03 BASIN STORAGE= .3651E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOFF5	MANE	2.26	1185.89	223.68	1.85	5.00	1167.37	220.00	1.85

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1001E+03 EXCESS= .0000E+00 OUTFLOW= .1001E+03 BASIN STORAGE= .4261E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOFF5	MANE	2.27	1169.63	222.25	1.82	5.00	1150.99	220.00	1.82

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9855E+02 EXCESS= .0000E+00 OUTFLOW= .9855E+02 BASIN STORAGE= .4446E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOFF5	MANE	2.30	1095.29	222.88	1.70	5.00	1077.77	225.00	1.70

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9234E+02 EXCESS= .0000E+00 OUTFLOW= .9234E+02 BASIN STORAGE= .4656E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOFF5	MANE	2.31	1055.93	224.27	1.65	5.00	1042.62	220.00	1.65

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8931E+02 EXCESS= .0000E+00 OUTFLOW= .8932E+02 BASIN STORAGE= .4131E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOFF5	MANE	2.32	1040.15	222.85	1.62	5.00	1024.57	225.00	1.62

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8773E+02 EXCESS= .0000E+00 OUTFLOW= .8773E+02 BASIN STORAGE= .4439E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOFF5	MANE	2.53	681.78	225.10	1.07	5.00	681.59	225.00	1.07

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5812E+02 EXCESS= .0000E+00 OUTFLOW= .5812E+02 BASIN STORAGE= .3873E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOFF5 MANE 2.73 465.13 223.77 .74 5.00 463.68 225.00 .74

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4036E+02 EXCESS= .0000E+00 OUTFLOW= .4036E+02 BASIN STORAGE= .3573E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
ROFF52 MANE 1.35 464.06 226.77 1.91 5.00 461.60 225.00 1.91

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4017E+02 EXCESS= .0000E+00 OUTFLOW= .4017E+02 BASIN STORAGE= .1739E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
ROFF52 MANE 1.36 451.14 226.72 1.85 5.00 448.50 225.00 1.85

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3898E+02 EXCESS= .0000E+00 OUTFLOW= .3898E+02 BASIN STORAGE= .2037E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
ROFF52 MANE 1.36 445.36 226.03 1.82 5.00 441.49 225.00 1.82

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3839E+02 EXCESS= .0000E+00 OUTFLOW= .3839E+02 BASIN STORAGE= .2024E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
ROFF52 MANE 1.38 419.07 226.04 1.71 5.00 415.13 225.00 1.71

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3603E+02 EXCESS= .0000E+00 OUTFLOW= .3603E+02 BASIN STORAGE= .1941E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
ROFF52 MANE 1.39 406.06 226.09 1.65 5.00 402.05 225.00 1.66

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3486E+02 EXCESS= .0000E+00 OUTFLOW= .3486E+02 BASIN STORAGE= .1879E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
ROFF52 MANE 1.39 398.62 226.83 1.63 5.00 395.81 225.00 1.63

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3428E+02 EXCESS= .0000E+00 OUTFLOW= .3428E+02 BASIN STORAGE= .1844E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
ROFF52 MANE 1.50 270.32 227.13 1.09 5.00 267.08 225.00 1.09

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2297E+02 EXCESS= .0000E+00 OUTFLOW= .2297E+02 BASIN STORAGE= .1880E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
ROFF52 MANE 1.61 190.57 227.49 .76 5.00 187.21 225.00 .77

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1611E+02 EXCESS= .0000E+00 OUTFLOW= .1611E+02 BASIN STORAGE= .2012E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
R2CNW1 MANE 1.49 1981.82 225.82 1.86 5.00 1974.68 225.00 1.86

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1690E+03 EXCESS= .0000E+00 OUTFLOW= .1691E+03 BASIN STORAGE= .3892E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
R2CNW1 MANE 1.51 1912.07 223.11 1.80 5.00 1904.02 225.00 1.80

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1639E+03 EXCESS= .0000E+00 OUTFLOW= .1639E+03 BASIN STORAGE= .3878E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
R2CNW1 MANE 1.51 1888.16 225.53 1.77 5.00 1886.09 225.00 1.78

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1613E+03 EXCESS= .0000E+00 OUTFLOW= .1613E+03 BASIN STORAGE= .3547E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
R2CNW1 MANE 1.55 1769.31 226.69 1.66 5.00 1765.56 225.00 1.66

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1511E+03 EXCESS= .0000E+00 OUTFLOW= .1512E+03 BASIN STORAGE= .3480E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
R2CNW1 MANE 1.57 1707.90 223.62 1.61 5.00 1706.46 225.00 1.61

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1462E+03 EXCESS= .0000E+00 OUTFLOW= .1462E+03 BASIN STORAGE= .3701E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
R2CNW1 MANE 1.58 1687.56 226.52 1.58 5.00 1676.39 225.00 1.58

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1436E+03 EXCESS= .0000E+00 OUTFLOW= .1436E+03 BASIN STORAGE= .4003E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
R2CNW1 MANE 1.86 1120.27 227.36 1.05 5.00 1108.60 225.00 1.05

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9509E+02 EXCESS= .0000E+00 OUTFLOW= .9509E+02 BASIN STORAGE= .3506E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
R2CNW1 MANE 2.17 766.32 227.62 .72 5.00 755.28 225.00 .72

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6589E+02 EXCESS= .0000E+00 OUTFLOW= .6590E+02 BASIN STORAGE= .3445E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCNW7C MANE .89 2462.18 226.26 1.84 5.00 2451.36 225.00 1.84

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2155E+03 EXCESS= .0000E+00 OUTFLOW= .2155E+03 BASIN STORAGE= .2461E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCNW7C MANE .91 2383.87 225.83 1.79 5.00 2368.76 225.00 1.79

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2089E+03 EXCESS= .0000E+00 OUTFLOW= .2089E+03 BASIN STORAGE= .2472E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCNW7C MANE .91 2359.23 225.87 1.76 5.00 2342.07 225.00 1.76

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2057E+03 EXCESS= .0000E+00 OUTFLOW= .2057E+03 BASIN STORAGE= .2299E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCNW7C MANE .93 2206.43 226.24 1.65 5.00 2191.30 225.00 1.65

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1928E+03 EXCESS= .0000E+00 OUTFLOW= .1928E+03 BASIN STORAGE= .2334E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCNW7C MANE .95 2130.60 225.53 1.59 5.00 2118.47 225.00 1.60

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1864E+03 EXCESS= .0000E+00 OUTFLOW= .1864E+03 BASIN STORAGE= .2256E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCNW7C MANE .95 2098.20 226.16 1.57 5.00 2080.99 225.00 1.57

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1831E+03 EXCESS= .0000E+00 OUTFLOW= .1831E+03 BASIN STORAGE= .2490E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCNW7C MANE 1.12 1392.22 226.06 1.04 5.00 1373.42 225.00 1.04

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1214E+03 EXCESS= .0000E+00 OUTFLOW= .1214E+03 BASIN STORAGE= .2317E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCNW7C MANE 1.31 957.73 227.73 .72 5.00 954.41 230.00 .72

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8430E+02 EXCESS= .0000E+00 OUTFLOW= .8430E+02 BASIN STORAGE= .2502E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCNW21 MANE 1.78 2629.57 226.17 1.87 5.00 2604.73 225.00 1.87

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2336E+03 EXCESS= .0000E+00 OUTFLOW= .2336E+03 BASIN STORAGE= .4681E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCNW21 MANE 1.80 2550.70 227.42 1.81 5.00 2516.67 225.00 1.81

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2265E+03 EXCESS= .0000E+00 OUTFLOW= .2265E+03 BASIN STORAGE= .4816E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCNW21 MANE 1.81 2525.46 226.65 1.78 5.00 2485.75 225.00 1.78

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2231E+03 EXCESS= .0000E+00 OUTFLOW= .2231E+03 BASIN STORAGE= .5740E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCNW21 MANE 1.86 2368.81 227.07 1.67 5.00 2323.41 225.00 1.67

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2092E+03 EXCESS= .0000E+00 OUTFLOW= .2092E+03 BASIN STORAGE= .4579E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCNW21 MANE 1.89 2276.25 226.34 1.62 5.00 2251.38 225.00 1.62

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2024E+03 EXCESS= .0000E+00 OUTFLOW= .2024E+03 BASIN STORAGE= .4940E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCNW21 MANE 1.90 2242.47 227.93 1.59 5.00 2209.02 225.00 1.59

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1988E+03 EXCESS= .0000E+00 OUTFLOW= .1988E+03 BASIN STORAGE= .5501E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCNW21 MANE 2.24 1497.78 228.05 1.06 5.00 1483.14 230.00 1.06

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1325E+03 EXCESS= .0000E+00 OUTFLOW= .1325E+03 BASIN STORAGE= .4606E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCNW21 MANE 2.60 1030.60 228.67 .74 5.00 1030.01 230.00 .74

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9245E+02 EXCESS= .0000E+00 OUTFLOW= .9247E+02 BASIN STORAGE= .4743E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
ROFF1A MANE 3.14 726.65 244.77 1.36 5.00 726.17 245.00 1.36

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8277E+02 EXCESS= .0000E+00 OUTFLOW= .8278E+02 BASIN STORAGE= .1118E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
ROFF1A MANE 3.17 702.02 243.92 1.31 5.00 700.26 245.00 1.31

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7974E+02 EXCESS= .0000E+00 OUTFLOW= .7975E+02 BASIN STORAGE= .8961E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
ROFF1A MANE 3.18 686.97 241.92 1.28 5.00 686.64 245.00 1.28

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7824E+02 EXCESS= .0000E+00 OUTFLOW= .7824E+02 BASIN STORAGE= .9853E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
ROFF1A MANE 3.25 637.22 243.58 1.18 5.00 635.17 245.00 1.18

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7229E+02 EXCESS= .0000E+00 OUTFLOW= .7229E+02 BASIN STORAGE= .8390E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
ROFF1A MANE 3.28 610.61 242.88 1.14 5.00 608.60 245.00 1.14

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6935E+02 EXCESS= .0000E+00 OUTFLOW= .6935E+02 BASIN STORAGE= .9038E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
ROFF1A MANE 3.30 596.89 244.20 1.11 5.00 595.86 245.00 1.11

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6789E+02 EXCESS= .0000E+00 OUTFLOW= .6790E+02 BASIN STORAGE= .9733E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
ROFF1A MANE 3.77 351.62 244.92 .67 5.00 351.60 245.00 .67

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4065E+02 EXCESS= .0000E+00 OUTFLOW= .4066E+02 BASIN STORAGE= .8282E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

ROFF1A	MANE	3.25	212.34	247.00	.42	5.00	210.92	250.00	.42

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2534E+02 EXCESS= .0000E+00 OUTFLOW= .2534E+02 BASIN STORAGE= .8581E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCFF1A	MANE	4.26	1007.35	238.77	1.47	5.00	1001.61	240.00	1.47

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1204E+03 EXCESS= .0000E+00 OUTFLOW= .1204E+03 BASIN STORAGE= .1595E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCFF1A	MANE	4.30	966.42	236.69	1.42	5.00	963.42	240.00	1.42

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1163E+03 EXCESS= .0000E+00 OUTFLOW= .1163E+03 BASIN STORAGE= .1437E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCFF1A	MANE	4.32	951.08	237.74	1.40	5.00	945.51	240.00	1.40

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1142E+03 EXCESS= .0000E+00 OUTFLOW= .1142E+03 BASIN STORAGE= .1784E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCFF1A	MANE	4.41	880.80	237.96	1.30	5.00	875.86	240.00	1.30

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1059E+03 EXCESS= .0000E+00 OUTFLOW= .1059E+03 BASIN STORAGE= .1464E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCFF1A	MANE	4.45	845.25	240.35	1.25	5.00	844.98	240.00	1.25

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1017E+03 EXCESS= .0000E+00 OUTFLOW= .1018E+03 BASIN STORAGE= .1320E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCFF1A	MANE	4.47	826.55	237.15	1.22	5.00	823.91	240.00	1.22

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9975E+02 EXCESS= .0000E+00 OUTFLOW= .9976E+02 BASIN STORAGE= .1604E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCFF1A	MANE	5.00	501.79	240.00	.75	5.00	501.79	240.00	.75

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6147E+02 EXCESS= .0000E+00 OUTFLOW= .6149E+02 BASIN STORAGE= .1638E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCFF1A	MANE	5.00	310.21	240.00	.48	5.00	310.21	240.00	.48

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3957E+02 EXCESS= .0000E+00 OUTFLOW= .3958E+02 BASIN STORAGE= .1416E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCFF1A	MANE	4.48	1270.78	237.63	1.52	5.00	1258.74	240.00	1.52

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1483E+03 EXCESS= .0000E+00 OUTFLOW= .1484E+03 BASIN STORAGE= .1902E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCFF1A	MANE	4.53	1218.63	240.05	1.46	5.00	1218.62	240.00	1.47

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1432E+03 EXCESS= .0000E+00 OUTFLOW= .1433E+03 BASIN STORAGE= .1662E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCFF1A	MANE	4.55	1200.06	236.53	1.44	5.00	1191.69	240.00	1.44

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1407E+03 EXCESS= .0000E+00 OUTFLOW= .1407E+03 BASIN STORAGE= .1360E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCFF1A	MANE	4.63	1112.81	236.34	1.34	5.00	1107.05	240.00	1.34

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1307E+03 EXCESS= .0000E+00 OUTFLOW= .1307E+03 BASIN STORAGE= .1912E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCFF1A	MANE	4.68	1071.98	238.64	1.28	5.00	1065.32	240.00	1.28

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1256E+03 EXCESS= .0000E+00 OUTFLOW= .1257E+03 BASIN STORAGE= .1826E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCFF1A	MANE	4.71	1047.94	239.99	1.26	5.00	1047.86	240.00	1.26

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1233E+03 EXCESS= .0000E+00 OUTFLOW= .1233E+03 BASIN STORAGE= .1366E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCFF1A	MANE	5.00	648.35	240.00	.78	5.00	648.35	240.00	.78

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7660E+02 EXCESS= .0000E+00 OUTFLOW= .7662E+02 BASIN STORAGE= .1312E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCFF1A	MANE	5.00	407.90	240.00	.51	5.00	407.90	240.00	.51

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4976E+02 EXCESS= .0000E+00 OUTFLOW= .4978E+02 BASIN STORAGE= .1720E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCFF1A	MANE	5.00	1466.07	240.00	1.51	5.00	1466.07	240.00	1.51

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1696E+03 EXCESS= .0000E+00 OUTFLOW= .1697E+03 BASIN STORAGE= .2235E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCFF1A	MANE	5.00	1417.95	240.00	1.46	5.00	1417.95	240.00	1.46

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1639E+03 EXCESS= .0000E+00 OUTFLOW= .1639E+03 BASIN STORAGE= .2230E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCFF1A MANE 5.00 1390.04 240.00 1.43 5.00 1390.04 240.00 1.43

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1608E+03 EXCESS= .0000E+00 OUTFLOW= .1609E+03 BASIN STORAGE= .2284E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCFF1A MANE 5.00 1289.48 240.00 1.33 5.00 1289.48 240.00 1.33

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1495E+03 EXCESS= .0000E+00 OUTFLOW= .1495E+03 BASIN STORAGE= .2721E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCFF1A MANE 5.00 1238.01 240.00 1.28 5.00 1238.01 240.00 1.28

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1436E+03 EXCESS= .0000E+00 OUTFLOW= .1437E+03 BASIN STORAGE= .2757E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCFF1A MANE 5.00 1218.88 240.00 1.26 5.00 1218.88 240.00 1.26

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1411E+03 EXCESS= .0000E+00 OUTFLOW= .1412E+03 BASIN STORAGE= .1841E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCFF1A MANE 5.00 749.72 240.00 .78 5.00 749.72 240.00 .78

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8752E+02 EXCESS= .0000E+00 OUTFLOW= .8756E+02 BASIN STORAGE= .2568E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCFF1A MANE 5.00 475.16 245.00 .51 5.00 475.16 245.00 .51

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5680E+02 EXCESS= .0000E+00 OUTFLOW= .5683E+02 BASIN STORAGE= .2137E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00
ROFF1A MANE 2.84 1747.85 241.10 1.48 5.00 1738.74 240.00 1.48

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1995E+03 EXCESS= .0000E+00 OUTFLOW= .1995E+03 BASIN STORAGE= .1164E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
ROFF1A MANE 2.86 1682.14 240.27 1.43 5.00 1679.55 240.00 1.43

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1927E+03 EXCESS= .0000E+00 OUTFLOW= .1927E+03 BASIN STORAGE= .9298E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
ROFF1A MANE 2.87 1653.80 241.45 1.40 5.00 1641.06 240.00 1.40

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1891E+03 EXCESS= .0000E+00 OUTFLOW= .1891E+03 BASIN STORAGE= .9542E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
ROFF1A MANE 2.93 1525.26 240.14 1.30 5.00 1523.84 240.00 1.30

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1756E+03 EXCESS= .0000E+00 OUTFLOW= .1757E+03 BASIN STORAGE= .1140E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
ROFF1A MANE 2.96 1468.42 242.58 1.25 5.00 1462.93 240.00 1.25

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1688E+03 EXCESS= .0000E+00 OUTFLOW= .1688E+03 BASIN STORAGE= .1154E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
ROFF1A MANE 2.97 1444.58 240.59 1.23 5.00 1438.99 240.00 1.23

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1657E+03 EXCESS= .0000E+00 OUTFLOW= .1658E+03 BASIN STORAGE= .9582E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
ROFF1A MANE 3.35 882.22 241.43 .76 5.00 878.20 245.00 .76

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1025E+03 EXCESS= .0000E+00 OUTFLOW= .1025E+03 BASIN STORAGE= .9777E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
ROFF1A MANE 3.78 552.31 245.62 .49 5.00 549.84 245.00 .49

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6625E+02 EXCESS= .0000E+00 OUTFLOW= .6626E+02 BASIN STORAGE= .9268E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCOFF2 MANE 2.62 1923.25 241.00 1.46 5.00 1913.33 240.00 1.46

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2216E+03 EXCESS= .0000E+00 OUTFLOW= .2216E+03 BASIN STORAGE= .8924E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCOFF2 MANE 2.64 1855.03 240.45 1.41 5.00 1847.08 240.00 1.41

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2141E+03 EXCESS= .0000E+00 OUTFLOW= .2141E+03 BASIN STORAGE= .9242E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCOFF2 MANE 2.66 1809.23 241.82 1.38 5.00 1801.45 240.00 1.38

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2100E+03 EXCESS= .0000E+00 OUTFLOW= .2100E+03 BASIN STORAGE= .8809E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCOFF2 MANE 2.71 1681.51 240.91 1.29 5.00 1666.50 240.00 1.29

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1951E+03 EXCESS= .0000E+00 OUTFLOW= .1951E+03 BASIN STORAGE= .1021E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCOFF2 MANE 2.73 1616.25 240.63 1.24 5.00 1606.04 240.00 1.24

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1874E+03 EXCESS= .0000E+00 OUTFLOW= .1874E+03 BASIN STORAGE= .9506E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCOFF2 MANE 2.75 1585.35 241.64 1.21 5.00 1568.03 245.00 1.21

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1840E+03 EXCESS= .0000E+00 OUTFLOW= .1840E+03 BASIN STORAGE= .1075E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOFF2	MANE	3.11	964.41	246.01	.75	5.00	963.22	245.00	.75

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1135E+03 EXCESS= .0000E+00 OUTFLOW= .1135E+03 BASIN STORAGE= .8593E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOFF2	MANE	3.50	602.93	248.65	.48	5.00	597.93	250.00	.48

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7322E+02 EXCESS= .0000E+00 OUTFLOW= .7323E+02 BASIN STORAGE= .1048E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOFF3	MANE	1.02	2026.40	241.24	1.45	5.00	2016.06	240.00	1.45

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2365E+03 EXCESS= .0000E+00 OUTFLOW= .2365E+03 BASIN STORAGE= .2383E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOFF3	MANE	1.04	1955.59	241.54	1.40	5.00	1944.56	240.00	1.40

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2286E+03 EXCESS= .0000E+00 OUTFLOW= .2286E+03 BASIN STORAGE= .2379E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOFF3	MANE	1.05	1907.78	240.79	1.37	5.00	1898.39	240.00	1.37

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2242E+03 EXCESS= .0000E+00 OUTFLOW= .2242E+03 BASIN STORAGE= .2627E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOFF3	MANE	1.08	1766.43	241.89	1.27	5.00	1754.22	240.00	1.27

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2082E+03 EXCESS= .0000E+00 OUTFLOW= .2082E+03 BASIN STORAGE= .2603E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOFF3	MANE	1.10	1704.28	241.11	1.22	5.00	1689.48	240.00	1.22

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2000E+03 EXCESS= .0000E+00 OUTFLOW= .2000E+03 BASIN STORAGE= .2490E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOFF3	MANE	1.11	1663.28	241.29	1.20	5.00	1649.88	245.00	1.20

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1963E+03 EXCESS= .0000E+00 OUTFLOW= .1963E+03 BASIN STORAGE= .2629E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOFF3	MANE	1.35	1010.25	245.63	.74	5.00	1005.78	245.00	.74

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1210E+03 EXCESS= .0000E+00 OUTFLOW= .1210E+03 BASIN STORAGE= .2489E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOFF3	MANE	1.64	622.44	250.58	.48	5.00	622.24	250.00	.48

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7790E+02 EXCESS= .0000E+00 OUTFLOW= .7791E+02 BASIN STORAGE= .2625E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOFF2	MANE	.83	2075.73	241.15	1.43	5.00	2066.35	240.00	1.43

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2461E+03 EXCESS= .0000E+00 OUTFLOW= .2461E+03 BASIN STORAGE= .1962E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOFF2	MANE	.84	2002.83	241.29	1.38	5.00	1991.64	240.00	1.38

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2378E+03 EXCESS= .0000E+00 OUTFLOW= .2378E+03 BASIN STORAGE= .1961E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOFF2	MANE	.85	1956.45	241.06	1.36	5.00	1945.48	240.00	1.36

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2332E+03 EXCESS= .0000E+00 OUTFLOW= .2332E+03 BASIN STORAGE= .2102E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOFF2	MANE	.88	1809.49	240.90	1.26	5.00	1796.25	240.00	1.26

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2165E+03 EXCESS= .0000E+00 OUTFLOW= .2165E+03 BASIN STORAGE= .1961E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOFF2	MANE	.89	1742.49	241.00	1.21	5.00	1727.65	240.00	1.21

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2080E+03 EXCESS= .0000E+00 OUTFLOW= .2080E+03 BASIN STORAGE= .2172E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOFF2	MANE	.90	1699.18	241.70	1.19	5.00	1692.04	245.00	1.19

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2041E+03 EXCESS= .0000E+00 OUTFLOW= .2041E+03 BASIN STORAGE= .2090E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOFF2	MANE	1.10	1028.22	246.77	.73	5.00	1023.84	245.00	.73

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1255E+03 EXCESS= .0000E+00 OUTFLOW= .1255E+03 BASIN STORAGE= .2126E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOFF2	MANE	1.33	633.63	250.27	.47	5.00	632.35	250.00	.47

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8063E+02 EXCESS= .0000E+00 OUTFLOW= .8063E+02 BASIN STORAGE= .2197E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCFF1A	MANE	.93	2322.69	240.67	1.39	5.00	2313.98	240.00	1.39

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2741E+03 EXCESS= .0000E+00 OUTFLOW= .2741E+03 BASIN STORAGE= .2535E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCFF1A MANE .94 2236.73 241.42 1.34 5.00 2228.89 240.00 1.34

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2648E+03 EXCESS= .0000E+00 OUTFLOW= .2648E+03 BASIN STORAGE= .2376E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCFF1A MANE .95 2189.09 240.81 1.32 5.00 2178.67 240.00 1.32

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2596E+03 EXCESS= .0000E+00 OUTFLOW= .2596E+03 BASIN STORAGE= .2559E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCFF1A MANE .98 2020.58 240.78 1.22 5.00 2008.60 240.00 1.22

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2408E+03 EXCESS= .0000E+00 OUTFLOW= .2408E+03 BASIN STORAGE= .2389E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCFF1A MANE .99 1941.94 241.61 1.17 5.00 1929.08 240.00 1.17

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2313E+03 EXCESS= .0000E+00 OUTFLOW= .2313E+03 BASIN STORAGE= .2500E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCFF1A MANE 1.00 1896.22 241.10 1.15 5.00 1879.70 240.00 1.15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2268E+03 EXCESS= .0000E+00 OUTFLOW= .2268E+03 BASIN STORAGE= .2486E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCFF1A MANE 1.23 1127.73 245.75 .70 5.00 1122.77 245.00 .70

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1387E+03 EXCESS= .0000E+00 OUTFLOW= .1387E+03 BASIN STORAGE= .2382E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCFF1A MANE 1.51 688.42 251.49 .45 5.00 684.04 250.00 .45

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8862E+02 EXCESS= .0000E+00 OUTFLOW= .8863E+02 BASIN STORAGE= .2398E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RNW2-C MANE 4.52 334.88 230.47 1.42 5.00 332.55 230.00 1.42

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2987E+02 EXCESS= .0000E+00 OUTFLOW= .2987E+02 BASIN STORAGE= .1417E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RNW2-C MANE 4.56 322.08 232.41 1.37 5.00 317.74 230.00 1.37

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2882E+02 EXCESS= .0000E+00 OUTFLOW= .2882E+02 BASIN STORAGE= .9642E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RNW2-C MANE 4.58 315.84 233.41 1.35 5.00 314.74 230.00 1.35

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2835E+02 EXCESS= .0000E+00 OUTFLOW= .2835E+02 BASIN STORAGE= .1253E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RNW2-C MANE 4.66 294.45 232.94 1.25 5.00 290.67 230.00 1.25

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2631E+02 EXCESS= .0000E+00 OUTFLOW= .2631E+02 BASIN STORAGE= .1309E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RNW2-C MANE 4.70 285.05 230.42 1.21 5.00 282.99 230.00 1.21

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2540E+02 EXCESS= .0000E+00 OUTFLOW= .2540E+02 BASIN STORAGE= .1320E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RNW2-C MANE 4.72 279.02 231.52 1.18 5.00 273.86 230.00 1.18

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2485E+02 EXCESS= .0000E+00 OUTFLOW= .2486E+02 BASIN STORAGE= .1064E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RNW2-C MANE 5.00 175.14 235.00 .74 5.00 175.14 235.00 .74

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1557E+02 EXCESS= .0000E+00 OUTFLOW= .1558E+02 BASIN STORAGE= .1056E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RNW2-C MANE 4.00 111.88 236.00 .48 5.00 111.72 235.00 .48

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1019E+02 EXCESS= .0000E+00 OUTFLOW= .1019E+02 BASIN STORAGE= .1168E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCNW5- MANE .80 2779.60 240.82 1.38 5.00 2775.91 240.00 1.38

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3217E+03 EXCESS= .0000E+00 OUTFLOW= .3217E+03 BASIN STORAGE= .2113E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCNW5- MANE .81 2674.96 240.41 1.33 5.00 2670.41 240.00 1.33

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3106E+03 EXCESS= .0000E+00 OUTFLOW= .3106E+03 BASIN STORAGE= .2164E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCNW5- MANE .82 2619.14 240.88 1.31 5.00 2614.39 240.00 1.31

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3047E+03 EXCESS= .0000E+00 OUTFLOW= .3047E+03 BASIN STORAGE= .2160E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCNW5- MANE .85 2417.85 241.05 1.21 5.00 2410.96 240.00 1.21

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2825E+03 EXCESS= .0000E+00 OUTFLOW= .2825E+03 BASIN STORAGE= .2135E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCNW5- MANE .86 2324.62 240.53 1.17 5.00 2316.66 240.00 1.17

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2716E+03 EXCESS= .0000E+00 OUTFLOW= .2716E+03 BASIN STORAGE= .2117E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCNW5-	MANE	.87	2267.01	241.25	1.14	5.00	2257.97	240.00	1.14

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2662E+03 EXCESS= .0000E+00 OUTFLOW= .2662E+03 BASIN STORAGE= .2130E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCNW5-	MANE	1.07	1340.05	246.27	.70	5.00	1337.06	245.00	.70

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1630E+03 EXCESS= .0000E+00 OUTFLOW= .1630E+03 BASIN STORAGE= .2342E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCNW5-	MANE	1.31	808.49	250.41	.45	5.00	807.05	250.00	.45

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1043E+03 EXCESS= .0000E+00 OUTFLOW= .1043E+03 BASIN STORAGE= .2418E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RNW9-C	MANE	5.00	302.38	230.00	1.74	5.00	302.38	230.00	1.74

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2521E+02 EXCESS= .0000E+00 OUTFLOW= .2522E+02 BASIN STORAGE= .1582E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RNW9-C	MANE	5.00	293.84	230.00	1.69	5.00	293.84	230.00	1.69

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2446E+02 EXCESS= .0000E+00 OUTFLOW= .2447E+02 BASIN STORAGE= .1556E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RNW9-C	MANE	5.00	289.57	230.00	1.66	5.00	289.57	230.00	1.66

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2408E+02 EXCESS= .0000E+00 OUTFLOW= .2409E+02 BASIN STORAGE= .1543E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RNW9-C	MANE	5.00	272.54	230.00	1.56	5.00	272.54	230.00	1.56

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2258E+02 EXCESS= .0000E+00 OUTFLOW= .2259E+02 BASIN STORAGE= .1490E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RNW9-C	MANE	5.00	264.04	230.00	1.51	5.00	264.04	230.00	1.51

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2184E+02 EXCESS= .0000E+00 OUTFLOW= .2184E+02 BASIN STORAGE= .1463E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RNW9-C	MANE	5.00	259.79	230.00	1.48	5.00	259.79	230.00	1.48

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2147E+02 EXCESS= .0000E+00 OUTFLOW= .2147E+02 BASIN STORAGE= .1449E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RNW9-C	MANE	5.00	175.97	230.00	.99	5.00	175.97	230.00	.99

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1429E+02 EXCESS= .0000E+00 OUTFLOW= .1429E+02 BASIN STORAGE= .1120E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RNW9-C	MANE	5.00	123.30	230.00	.69	5.00	123.30	230.00	.69

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9955E+01 EXCESS= .0000E+00 OUTFLOW= .9959E+01 BASIN STORAGE= .1492E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00

RCNW11	MANE	.73	3145.61	239.73	1.39	5.00	3145.29	240.00	1.39

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3648E+03 EXCESS= .0000E+00 OUTFLOW= .3648E+03 BASIN STORAGE= .2230E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCNW11	MANE	.74	3028.58	240.38	1.35	5.00	3028.15	240.00	1.35

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3523E+03 EXCESS= .0000E+00 OUTFLOW= .3523E+03 BASIN STORAGE= .2237E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCNW11	MANE	.75	2967.80	240.10	1.32	5.00	2967.42	240.00	1.32

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3458E+03 EXCESS= .0000E+00 OUTFLOW= .3458E+03 BASIN STORAGE= .2132E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCNW11	MANE	.77	2742.09	240.81	1.23	5.00	2741.38	240.00	1.23

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3209E+03 EXCESS= .0000E+00 OUTFLOW= .3209E+03 BASIN STORAGE= .2184E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCNW11	MANE	.79	2637.51	240.66	1.18	5.00	2634.58	240.00	1.18

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3085E+03 EXCESS= .0000E+00 OUTFLOW= .3085E+03 BASIN STORAGE= .2108E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCNW11	MANE	.79	2573.70	240.65	1.16	5.00	2570.50	240.00	1.16

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3025E+03 EXCESS= .0000E+00 OUTFLOW= .3025E+03 BASIN STORAGE= .2215E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCNW11	MANE	.98	1512.22	245.61	.71	5.00	1511.87	245.00	.71

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1863E+03 EXCESS= .0000E+00 OUTFLOW= .1863E+03 BASIN STORAGE= .2233E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCNW11	MANE	1.20	911.11	246.90	.46	5.00	909.14	250.00	.46

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1199E+03 EXCESS= .0000E+00 OUTFLOW= .1199E+03 BASIN STORAGE= .2078E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCNW17 MANE .73 3472.96 236.10 1.41 5.00 3465.70 240.00 1.41

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4016E+03 EXCESS= .0000E+00 OUTFLOW= .4016E+03 BASIN STORAGE= .2317E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCNW17 MANE .74 3339.80 239.75 1.36 5.00 3338.63 240.00 1.36

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3879E+03 EXCESS= .0000E+00 OUTFLOW= .3879E+03 BASIN STORAGE= .2274E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCNW17 MANE .75 3275.79 236.40 1.34 5.00 3273.45 240.00 1.34

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3808E+03 EXCESS= .0000E+00 OUTFLOW= .3808E+03 BASIN STORAGE= .2272E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCNW17 MANE .77 3028.15 239.98 1.24 5.00 3028.09 240.00 1.24

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3537E+03 EXCESS= .0000E+00 OUTFLOW= .3537E+03 BASIN STORAGE= .2313E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCNW17 MANE .79 2910.14 240.61 1.19 5.00 2909.88 240.00 1.20

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3402E+03 EXCESS= .0000E+00 OUTFLOW= .3402E+03 BASIN STORAGE= .2223E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCNW17 MANE .79 2841.72 240.53 1.17 5.00 2841.01 240.00 1.17

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3336E+03 EXCESS= .0000E+00 OUTFLOW= .3336E+03 BASIN STORAGE= .2272E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCNW17 MANE .98 1672.50 241.60 .73 5.00 1667.68 245.00 .73

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2068E+03 EXCESS= .0000E+00 OUTFLOW= .2068E+03 BASIN STORAGE= .2394E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCNW17 MANE 1.20 1009.80 246.26 .47 5.00 1003.83 250.00 .47

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1340E+03 EXCESS= .0000E+00 OUTFLOW= .1340E+03 BASIN STORAGE= .2472E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCNW23 MANE .96 3762.38 236.30 1.42 5.00 3736.55 240.00 1.42

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4340E+03 EXCESS= .0000E+00 OUTFLOW= .4340E+03 BASIN STORAGE= .2966E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCNW23 MANE .97 3621.34 236.08 1.38 5.00 3600.73 240.00 1.38

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4194E+03 EXCESS= .0000E+00 OUTFLOW= .4194E+03 BASIN STORAGE= .3292E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCNW23 MANE .98 3551.70 235.95 1.35 5.00 3531.26 240.00 1.35

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4117E+03 EXCESS= .0000E+00 OUTFLOW= .4117E+03 BASIN STORAGE= .3038E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCNW23 MANE 1.01 3274.40 236.76 1.26 5.00 3268.57 240.00 1.26

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3827E+03 EXCESS= .0000E+00 OUTFLOW= .3827E+03 BASIN STORAGE= .3271E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCNW23 MANE 1.03 3142.33 239.50 1.21 5.00 3140.91 240.00 1.21

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3682E+03 EXCESS= .0000E+00 OUTFLOW= .3682E+03 BASIN STORAGE= .2994E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCNW23 MANE 1.04 3069.75 239.68 1.18 5.00 3068.78 240.00 1.19

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3611E+03 EXCESS= .0000E+00 OUTFLOW= .3611E+03 BASIN STORAGE= .3026E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCNW23 MANE 1.28 1812.47 242.07 .74 5.00 1800.25 245.00 .74

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2249E+03 EXCESS= .0000E+00 OUTFLOW= .2249E+03 BASIN STORAGE= .2932E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCNW23 MANE 1.57 1093.70 245.98 .48 5.00 1088.96 245.00 .48

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1466E+03 EXCESS= .0000E+00 OUTFLOW= .1466E+03 BASIN STORAGE= .3346E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RC213A MANE 2.50 23498.96 305.01 1.75 5.00 23498.43 305.00 1.75

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3639E+04 EXCESS= .0000E+00 OUTFLOW= .3639E+04 BASIN STORAGE= .1975E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RC213A MANE 2.52 22709.79 305.09 1.69 5.00 22705.68 305.00 1.69

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3514E+04 EXCESS= .0000E+00 OUTFLOW= .3514E+04 BASIN STORAGE= .1722E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RC213A MANE 2.53 22260.09 303.88 1.66 5.00 22259.10 305.00 1.66

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3451E+04 EXCESS= .0000E+00 OUTFLOW= .3451E+04 BASIN STORAGE= .1626E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RC213A MANE 2.58 20712.76 304.24 1.54 5.00 20708.34 305.00 1.54

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3205E+04 EXCESS= .0000E+00 OUTFLOW= .3205E+04 BASIN STORAGE= .1592E-02 PERCENT ERROR= .0

```
 FOR PLAN = 1  RATIO=  .00
   RC213A  MANE          2.60  19951.13    304.52       1.48       5.00  19945.90    305.00         1.48

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3083E+04 EXCESS= .0000E+00 OUTFLOW= .3083E+04 BASIN STORAGE= .1735E-02 PERCENT ERROR=    .0

 FOR PLAN = 1  RATIO=  .00
   RC213A  MANE          2.62  19581.13    306.00       1.45       5.00  19553.11    305.00         1.45

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3023E+04 EXCESS= .0000E+00 OUTFLOW= .3023E+04 BASIN STORAGE= .1604E-02 PERCENT ERROR=    .0

 FOR PLAN = 1  RATIO=  .00
   RC213A  MANE          2.94  12223.62    305.82        .90       5.00  12195.37    305.00          .90

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1879E+04 EXCESS= .0000E+00 OUTFLOW= .1879E+04 BASIN STORAGE= .1831E-02 PERCENT ERROR=    .0

 FOR PLAN = 1  RATIO=  .00
   RC213A  MANE          3.28   7937.77    308.12        .59       5.00   7925.33    310.00          .59

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1222E+04 EXCESS= .0000E+00 OUTFLOW= .1222E+04 BASIN STORAGE= .1772E-02 PERCENT ERROR=    .0

 FOR PLAN = 1  RATIO=  .00
   RC213A  MANE          1.52  23603.49    306.23       1.74       5.00  23540.46    305.00         1.74

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3676E+04 EXCESS= .0000E+00 OUTFLOW= .3676E+04 BASIN STORAGE= .9370E-03 PERCENT ERROR=    .0

 FOR PLAN = 1  RATIO=  .00
   RC213A  MANE          1.53  22788.35    305.81       1.68       5.00  22748.28    305.00         1.68

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3551E+04 EXCESS= .0000E+00 OUTFLOW= .3551E+04 BASIN STORAGE= .9372E-03 PERCENT ERROR=    .0

 FOR PLAN = 1  RATIO=  .00
   RC213A  MANE          1.54  22338.35    305.79       1.65       5.00  22299.61    305.00         1.65

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3486E+04 EXCESS= .0000E+00 OUTFLOW= .3486E+04 BASIN STORAGE= .1117E-02 PERCENT ERROR=    .0

 FOR PLAN = 1  RATIO=  .00
   RC213A  MANE          1.56  20809.33    306.66       1.54       5.00  20737.02    305.00         1.54

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3237E+04 EXCESS= .0000E+00 OUTFLOW= .3237E+04 BASIN STORAGE= .1001E-02 PERCENT ERROR=    .0

 FOR PLAN = 1  RATIO=  .00
   RC213A  MANE          1.58  20041.79    306.39       1.48       5.00  19964.37    305.00         1.48

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3115E+04 EXCESS= .0000E+00 OUTFLOW= .3115E+04 BASIN STORAGE= .9195E-03 PERCENT ERROR=    .0

 FOR PLAN = 1  RATIO=  .00
   RC213A  MANE          1.59  19645.11    306.33       1.45       5.00  19573.11    305.00         1.45

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3053E+04 EXCESS= .0000E+00 OUTFLOW= .3053E+04 BASIN STORAGE= .1127E-02 PERCENT ERROR=    .0

 FOR PLAN = 1  RATIO=  .00
   RC213A  MANE          1.79  12271.75    307.16        .90       5.00  12247.12    310.00          .90

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1898E+04 EXCESS= .0000E+00 OUTFLOW= .1898E+04 BASIN STORAGE= .9310E-03 PERCENT ERROR=    .0

 FOR PLAN = 1  RATIO=  .00
   RC213A  MANE          1.99   7958.11    312.29        .59       5.00   7941.93    310.00          .59

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1234E+04 EXCESS= .0000E+00 OUTFLOW= .1234E+04 BASIN STORAGE= .1155E-02 PERCENT ERROR=    .0

 FOR PLAN = 1  RATIO=  .00
   RC213A  MANE          1.38  23612.79    306.20       1.74       5.00  23532.01    305.00         1.74

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3704E+04 EXCESS= .0000E+00 OUTFLOW= .3704E+04 BASIN STORAGE= .8615E-03 PERCENT ERROR=    .0

 FOR PLAN = 1  RATIO=  .00
   RC213A  MANE          1.39  22813.65    307.44       1.68       5.00  22734.15    310.00         1.68

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3578E+04 EXCESS= .0000E+00 OUTFLOW= .3578E+04 BASIN STORAGE= .1006E-02 PERCENT ERROR=    .0

 FOR PLAN = 1  RATIO=  .00
   RC213A  MANE          1.40  22367.10    306.18       1.65       5.00  22293.13    310.00         1.65

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3512E+04 EXCESS= .0000E+00 OUTFLOW= .3512E+04 BASIN STORAGE= .8683E-03 PERCENT ERROR=    .0

 FOR PLAN = 1  RATIO=  .00
   RC213A  MANE          1.42  20805.79    307.52       1.53       5.00  20750.07    310.00         1.53

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3261E+04 EXCESS= .0000E+00 OUTFLOW= .3261E+04 BASIN STORAGE= .1040E-02 PERCENT ERROR=    .0

 FOR PLAN = 1  RATIO=  .00
   RC213A  MANE          1.44  20037.29    307.58       1.47       5.00  19995.20    310.00         1.47

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3138E+04 EXCESS= .0000E+00 OUTFLOW= .3138E+04 BASIN STORAGE= .8461E-03 PERCENT ERROR=    .0

 FOR PLAN = 1  RATIO=  .00
   RC213A  MANE          1.44  19643.38    307.66       1.45       5.00  19597.95    310.00         1.45

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3076E+04 EXCESS= .0000E+00 OUTFLOW= .3076E+04 BASIN STORAGE= .9898E-03 PERCENT ERROR=    .0

 FOR PLAN = 1  RATIO=  .00
   RC213A  MANE          1.62  12278.84    311.83        .90       5.00  12266.45    310.00          .90

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1911E+04 EXCESS= .0000E+00 OUTFLOW= .1911E+04 BASIN STORAGE= .8691E-03 PERCENT ERROR=    .0

 FOR PLAN = 1  RATIO=  .00
   RC213A  MANE          1.81   7964.64    313.08        .58       5.00   7934.32    315.00          .58
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .1242E+04 EXCESS= .0000E+00 OUTFLOW= .1242E+04 BASIN STORAGE= .9359E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213A	MANE	1.48	23507.08	322.53	1.71	5.00	23476.93	325.00	1.71

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3844E+04 EXCESS= .0000E+00 OUTFLOW= .3844E+04 BASIN STORAGE= .1049E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213A	MANE	1.49	22708.73	322.34	1.65	5.00	22686.89	325.00	1.65

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3712E+04 EXCESS= .0000E+00 OUTFLOW= .3712E+04 BASIN STORAGE= .1010E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213A	MANE	1.50	22267.34	322.44	1.62	5.00	22250.27	325.00	1.62

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3644E+04 EXCESS= .0000E+00 OUTFLOW= .3644E+04 BASIN STORAGE= .9119E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213A	MANE	1.53	20709.48	323.71	1.50	5.00	20704.71	325.00	1.50

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3383E+04 EXCESS= .0000E+00 OUTFLOW= .3383E+04 BASIN STORAGE= .9346E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213A	MANE	1.54	19946.40	323.65	1.45	5.00	19944.49	325.00	1.45

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3254E+04 EXCESS= .0000E+00 OUTFLOW= .3254E+04 BASIN STORAGE= .1034E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213A	MANE	1.55	19552.94	323.72	1.42	5.00	19551.09	325.00	1.42

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3190E+04 EXCESS= .0000E+00 OUTFLOW= .3190E+04 BASIN STORAGE= .9489E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213A	MANE	1.74	12227.48	327.42	.88	5.00	12195.80	325.00	.88

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1978E+04 EXCESS= .0000E+00 OUTFLOW= .1978E+04 BASIN STORAGE= .9191E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213A	MANE	1.94	7924.22	328.20	.57	5.00	7914.08	330.00	.57

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1283E+04 EXCESS= .0000E+00 OUTFLOW= .1283E+04 BASIN STORAGE= .9120E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC13A-	MANE	1.48	23479.75	325.50	1.71	5.00	23471.62	325.00	1.71

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3875E+04 EXCESS= .0000E+00 OUTFLOW= .3875E+04 BASIN STORAGE= .9421E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC13A-	MANE	1.49	22683.61	325.31	1.65	5.00	22679.18	325.00	1.65

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3743E+04 EXCESS= .0000E+00 OUTFLOW= .3743E+04 BASIN STORAGE= .9124E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC13A-	MANE	1.50	22246.64	325.40	1.62	5.00	22240.11	325.00	1.62

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3675E+04 EXCESS= .0000E+00 OUTFLOW= .3675E+04 BASIN STORAGE= .1052E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC13A-	MANE	1.53	20705.82	326.73	1.51	5.00	20687.46	325.00	1.51

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3412E+04 EXCESS= .0000E+00 OUTFLOW= .3412E+04 BASIN STORAGE= .1073E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC13A-	MANE	1.54	19948.74	326.71	1.45	5.00	19922.66	325.00	1.45

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3282E+04 EXCESS= .0000E+00 OUTFLOW= .3283E+04 BASIN STORAGE= .9321E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC13A-	MANE	1.55	19552.25	326.79	1.42	5.00	19530.24	325.00	1.42

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3218E+04 EXCESS= .0000E+00 OUTFLOW= .3218E+04 BASIN STORAGE= .1082E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC13A-	MANE	1.74	12210.76	327.61	.88	5.00	12180.95	330.00	.88

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1998E+04 EXCESS= .0000E+00 OUTFLOW= .1998E+04 BASIN STORAGE= .9520E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC13A-	MANE	1.94	7917.02	332.02	.57	5.00	7903.79	330.00	.57

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1298E+04 EXCESS= .0000E+00 OUTFLOW= .1298E+04 BASIN STORAGE= .1043E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC13A-	MANE	1.61	23475.10	326.27	1.72	5.00	23425.66	325.00	1.72

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3907E+04 EXCESS= .0000E+00 OUTFLOW= .3907E+04 BASIN STORAGE= .1176E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC13A-	MANE	1.62	22664.00	325.84	1.66	5.00	22634.44	325.00	1.66

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3774E+04 EXCESS= .0000E+00 OUTFLOW= .3774E+04 BASIN STORAGE= .1214E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC13A-	MANE	1.63	22223.94	327.43	1.63	5.00	22193.65	325.00	1.63

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3705E+04 EXCESS= .0000E+00 OUTFLOW= .3705E+04 BASIN STORAGE= .1160E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RC13A- MANE 1.66 20700.71 326.77 1.51 5.00 20631.43 325.00 1.51

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3440E+04 EXCESS= .0000E+00 OUTFLOW= .3440E+04 BASIN STORAGE= .1047E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RC13A- MANE 1.67 19932.44 326.52 1.45 5.00 19863.85 325.00 1.45

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3311E+04 EXCESS= .0000E+00 OUTFLOW= .3311E+04 BASIN STORAGE= .9887E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RC13A- MANE 1.68 19536.82 326.46 1.42 5.00 19473.35 325.00 1.42

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3245E+04 EXCESS= .0000E+00 OUTFLOW= .3245E+04 BASIN STORAGE= .1238E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RC13A- MANE 1.89 12180.61 329.49 .89 5.00 12179.89 330.00 .89

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2018E+04 EXCESS= .0000E+00 OUTFLOW= .2018E+04 BASIN STORAGE= .1089E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RC13A- MANE 2.11 7908.30 333.34 .58 5.00 7881.10 335.00 .58

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1313E+04 EXCESS= .0000E+00 OUTFLOW= .1313E+04 BASIN STORAGE= .1036E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RC213B MANE .60 23440.04 325.87 1.72 5.00 23410.42 325.00 1.72

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3936E+04 EXCESS= .0000E+00 OUTFLOW= .3936E+04 BASIN STORAGE= .4097E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RC213B MANE .61 22651.67 325.64 1.66 5.00 22620.33 325.00 1.66

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3802E+04 EXCESS= .0000E+00 OUTFLOW= .3802E+04 BASIN STORAGE= .3946E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RC213B MANE .61 22208.25 326.02 1.63 5.00 22177.28 325.00 1.63

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3733E+04 EXCESS= .0000E+00 OUTFLOW= .3733E+04 BASIN STORAGE= .3962E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RC213B MANE .62 20648.76 325.80 1.51 5.00 20612.80 325.00 1.51

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3467E+04 EXCESS= .0000E+00 OUTFLOW= .3467E+04 BASIN STORAGE= .3740E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RC213B MANE .63 19881.67 325.75 1.46 5.00 19844.13 325.00 1.46

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3336E+04 EXCESS= .0000E+00 OUTFLOW= .3336E+04 BASIN STORAGE= .4111E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RC213B MANE .63 19492.00 326.11 1.43 5.00 19453.76 325.00 1.43

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3271E+04 EXCESS= .0000E+00 OUTFLOW= .3271E+04 BASIN STORAGE= .3652E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RC213B MANE .71 12184.34 330.46 .89 5.00 12176.28 330.00 .89

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2037E+04 EXCESS= .0000E+00 OUTFLOW= .2037E+04 BASIN STORAGE= .4105E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RC213B MANE .79 7887.30 335.18 .58 5.00 7887.30 335.00 .58

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1327E+04 EXCESS= .0000E+00 OUTFLOW= .1327E+04 BASIN STORAGE= .4043E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RC213A MANE .95 24544.12 325.40 1.68 5.00 24528.79 325.00 1.68

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4415E+04 EXCESS= .0000E+00 OUTFLOW= .4415E+04 BASIN STORAGE= .6280E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RC213A MANE .96 23735.09 326.02 1.63 5.00 23710.57 325.00 1.63

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4265E+04 EXCESS= .0000E+00 OUTFLOW= .4265E+04 BASIN STORAGE= .5991E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RC213A MANE .97 23271.34 325.67 1.60 5.00 23248.28 325.00 1.60

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4188E+04 EXCESS= .0000E+00 OUTFLOW= .4188E+04 BASIN STORAGE= .5976E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RC213A MANE .99 21649.86 326.28 1.48 5.00 21619.38 325.00 1.48

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3890E+04 EXCESS= .0000E+00 OUTFLOW= .3890E+04 BASIN STORAGE= .6464E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RC213A MANE 1.01 20855.08 326.18 1.43 5.00 20819.61 325.00 1.43

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3744E+04 EXCESS= .0000E+00 OUTFLOW= .3744E+04 BASIN STORAGE= .6274E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RC213A MANE 1.02 20441.48 326.71 1.40 5.00 20412.95 325.00 1.40

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3670E+04 EXCESS= .0000E+00 OUTFLOW= .3670E+04 BASIN STORAGE= .6753E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RC213A MANE 1.23 12791.35 330.25 .87 5.00 12787.79 330.00 .87

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2287E+04 EXCESS= .0000E+00 OUTFLOW= .2287E+04 BASIN STORAGE= .6852E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213A	MANE	1.46	8312.09	332.66	.57	5.00	8297.11	335.00	.57

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1491E+04 EXCESS= .0000E+00 OUTFLOW= .1491E+04 BASIN STORAGE= .5926E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213B	MANE	4.11	385.25	222.05	2.34	5.00	381.14	225.00	2.34

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3258E+02 EXCESS= .0000E+00 OUTFLOW= .3259E+02 BASIN STORAGE= .1063E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213B	MANE	4.14	382.94	223.33	2.29	5.00	374.39	225.00	2.29

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3181E+02 EXCESS= .0000E+00 OUTFLOW= .3182E+02 BASIN STORAGE= .1273E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213B	MANE	4.15	379.44	223.98	2.26	5.00	373.57	225.00	2.26

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3142E+02 EXCESS= .0000E+00 OUTFLOW= .3143E+02 BASIN STORAGE= .1082E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213B	MANE	4.20	356.05	222.49	2.14	5.00	350.53	225.00	2.14

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2981E+02 EXCESS= .0000E+00 OUTFLOW= .2982E+02 BASIN STORAGE= .9519E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213B	MANE	4.22	352.57	223.89	2.09	5.00	346.80	225.00	2.09

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2906E+02 EXCESS= .0000E+00 OUTFLOW= .2906E+02 BASIN STORAGE= .1083E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213B	MANE	4.24	346.67	224.60	2.06	5.00	344.45	225.00	2.06

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2866E+02 EXCESS= .0000E+00 OUTFLOW= .2867E+02 BASIN STORAGE= .9433E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213B	MANE	4.57	257.00	223.69	1.50	5.00	253.21	225.00	1.50

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2086E+02 EXCESS= .0000E+00 OUTFLOW= .2087E+02 BASIN STORAGE= .1050E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213B	MANE	4.75	197.08	223.25	1.14	5.00	194.91	225.00	1.14

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1587E+02 EXCESS= .0000E+00 OUTFLOW= .1588E+02 BASIN STORAGE= .1051E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213B	MANE	3.58	753.14	225.30	2.33	5.00	752.13	225.00	2.33

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6503E+02 EXCESS= .0000E+00 OUTFLOW= .6504E+02 BASIN STORAGE= .9567E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213B	MANE	3.59	740.18	222.64	2.28	5.00	737.64	225.00	2.28

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6349E+02 EXCESS= .0000E+00 OUTFLOW= .6350E+02 BASIN STORAGE= .1138E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213B	MANE	3.60	738.48	223.24	2.25	5.00	734.25	225.00	2.25

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6272E+02 EXCESS= .0000E+00 OUTFLOW= .6273E+02 BASIN STORAGE= .1001E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213B	MANE	3.65	693.68	222.71	2.13	5.00	691.24	225.00	2.14

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5954E+02 EXCESS= .0000E+00 OUTFLOW= .5955E+02 BASIN STORAGE= .1109E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213B	MANE	3.67	689.46	223.74	2.08	5.00	685.19	225.00	2.08

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5802E+02 EXCESS= .0000E+00 OUTFLOW= .5803E+02 BASIN STORAGE= .1322E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213B	MANE	3.68	676.70	224.62	2.05	5.00	675.26	225.00	2.05

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5724E+02 EXCESS= .0000E+00 OUTFLOW= .5725E+02 BASIN STORAGE= .1081E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213B	MANE	3.97	496.71	226.32	1.50	5.00	493.71	225.00	1.50

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4170E+02 EXCESS= .0000E+00 OUTFLOW= .4171E+02 BASIN STORAGE= .1051E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213B	MANE	4.24	386.42	224.95	1.14	5.00	386.33	225.00	1.14

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3178E+02 EXCESS= .0000E+00 OUTFLOW= .3179E+02 BASIN STORAGE= .1324E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213B	MANE	3.27	1089.77	225.52	2.31	5.00	1084.61	225.00	2.31

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9557E+02 EXCESS= .0000E+00 OUTFLOW= .9558E+02 BASIN STORAGE= .1138E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213B	MANE	3.29	1074.62	226.68	2.26	5.00	1066.75	225.00	2.26

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9333E+02 EXCESS= .0000E+00 OUTFLOW= .9334E+02 BASIN STORAGE= .1260E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RC213B MANE 3.29 1063.56 227.06 2.23 5.00 1054.21 225.00 2.23

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9216E+02 EXCESS= .0000E+00 OUTFLOW= .9217E+02 BASIN STORAGE= .1144E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RC213B MANE 3.34 1008.02 226.94 2.12 5.00 1000.18 225.00 2.11

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8752E+02 EXCESS= .0000E+00 OUTFLOW= .8753E+02 BASIN STORAGE= .1152E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RC213B MANE 3.35 988.22 227.72 2.06 5.00 979.23 225.00 2.06

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8528E+02 EXCESS= .0000E+00 OUTFLOW= .8529E+02 BASIN STORAGE= .9758E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RC213B MANE 3.36 970.00 228.52 2.03 5.00 961.45 225.00 2.03

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8410E+02 EXCESS= .0000E+00 OUTFLOW= .8412E+02 BASIN STORAGE= .1221E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RC213B MANE 3.63 717.51 228.59 1.48 5.00 708.28 225.00 1.48

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6126E+02 EXCESS= .0000E+00 OUTFLOW= .6127E+02 BASIN STORAGE= .1118E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RC213B MANE 3.86 558.27 227.72 1.13 5.00 544.04 225.00 1.13

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4672E+02 EXCESS= .0000E+00 OUTFLOW= .4673E+02 BASIN STORAGE= .1309E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RC213B MANE 1.81 1421.15 226.80 2.29 5.00 1398.85 225.00 2.29

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1260E+03 EXCESS= .0000E+00 OUTFLOW= .1260E+03 BASIN STORAGE= .6918E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RC213B MANE 1.82 1382.88 227.82 2.24 5.00 1375.00 225.00 2.24

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1230E+03 EXCESS= .0000E+00 OUTFLOW= .1230E+03 BASIN STORAGE= .6535E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RC213B MANE 1.83 1376.51 226.66 2.21 5.00 1357.26 225.00 2.21

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1215E+03 EXCESS= .0000E+00 OUTFLOW= .1215E+03 BASIN STORAGE= .6996E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RC213B MANE 1.85 1301.06 227.74 2.10 5.00 1289.02 225.00 2.10

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1154E+03 EXCESS= .0000E+00 OUTFLOW= .1154E+03 BASIN STORAGE= .6618E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RC213B MANE 1.86 1279.85 227.14 2.04 5.00 1256.97 225.00 2.04

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1124E+03 EXCESS= .0000E+00 OUTFLOW= .1124E+03 BASIN STORAGE= .6352E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RC213B MANE 1.87 1251.52 228.10 2.02 5.00 1238.58 225.00 2.02

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1108E+03 EXCESS= .0000E+00 OUTFLOW= .1108E+03 BASIN STORAGE= .5988E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RC213B MANE 2.02 929.47 227.88 1.47 5.00 908.81 230.00 1.47

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8076E+02 EXCESS= .0000E+00 OUTFLOW= .8076E+02 BASIN STORAGE= .5836E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RC213B MANE 2.15 716.48 228.17 1.12 5.00 704.50 230.00 1.12

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6158E+02 EXCESS= .0000E+00 OUTFLOW= .6158E+02 BASIN STORAGE= .6663E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RC213B MANE .88 24708.90 325.62 1.70 5.00 24685.60 325.00 1.70

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4571E+04 EXCESS= .0000E+00 OUTFLOW= .4571E+04 BASIN STORAGE= .6444E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RC213B MANE .89 23885.10 325.58 1.64 5.00 23860.85 325.00 1.64

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4417E+04 EXCESS= .0000E+00 OUTFLOW= .4417E+04 BASIN STORAGE= .6254E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RC213B MANE .90 23420.90 326.34 1.61 5.00 23396.90 325.00 1.61

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4338E+04 EXCESS= .0000E+00 OUTFLOW= .4338E+04 BASIN STORAGE= .5613E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RC213B MANE .93 21789.49 325.72 1.50 5.00 21758.04 325.00 1.50

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4032E+04 EXCESS= .0000E+00 OUTFLOW= .4032E+04 BASIN STORAGE= .5613E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RC213B MANE .94 20994.76 325.94 1.44 5.00 20956.08 325.00 1.44

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3882E+04 EXCESS= .0000E+00 OUTFLOW= .3882E+04 BASIN STORAGE= .5588E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RC213B MANE .95 20579.12 326.61 1.42 5.00 20543.79 325.00 1.42

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3807E+04 EXCESS= .0000E+00 OUTFLOW= .3807E+04 BASIN STORAGE= .6507E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213B	MANE	1.14	12889.52	330.83	.89	5.00	12882.68	330.00	.89	

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2386E+04 EXCESS= .0000E+00 OUTFLOW= .2386E+04 BASIN STORAGE= .5651E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213B	MANE	1.36	8374.14	332.04	.58	5.00	8369.76	335.00	.58	

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1567E+04 EXCESS= .0000E+00 OUTFLOW= .1567E+04 BASIN STORAGE= .5896E-02 PERCENT ERROR= .0

*** NORMAL END OF HEC-1 ***

"Local" Ultimate Condition SDN5 Storm HEC-1 Analysis

```
1*****************************************
*                                       *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
*         JUN  1998                     *
*          VERSION 4.1                  *
*                                       *
*  RUN DATE   08DEC11  TIME  14:43:36   *
*                                       *
*****************************************
```

```
*****************************************
*                                       *
*    U.S. ARMY CORPS OF ENGINEERS       *
*    HYDROLOGIC ENGINEERING CENTER      *
*          609 SECOND STREET            *
*       DAVIS, CALIFORNIA 95616         *
*           (916) 756-1104              *
*                                       *
*****************************************
```

```
X     X  XXXXXXX   XXXXX          X
X     X  X        X     X        XX
X     X  X        X              X
XXXXXXX  XXXX     X        XXXXX  X
X     X  X        X              X
X     X  X        X     X        X
X     X  XXXXXXX   XXXXX         XXX
```

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

1 HEC-1 INPUT PAGE 1

```
LINE          ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

              *DIAGRAM
    1         ID     SLATER HANIFAN GROUP
    2         ID     CARWIN ADVISORS
    3         ID     KYLE CANYON
    4         ID     MASTER DRAINAGE STUDY - CLV ADDENDUM #3
    5         ID     ULTIMATE DRAINAGE CONDITION - LOCAL ONSITE
    6         ID
    7         ID     RETURN PERIOD ------- 100 & 10-YEAR
    8         ID     DISTRIBUTION -------- 6-HOUR SDN5
    9         ID     PROJECT NO. --------- WCP0902.003
   10         ID     FILENAME ------------ Ultimate5-Local.H1
   11         ID     DATE ---------------- 12/08/11
   12         ID     MODELED BY ---------- SMJ/KCR
   13         ID
   14         ID        SIX HOUR DEPTH-AREA REDUCTION FACTORS
   15         ID        DRAINAGE AREA (MI^2)     DARF
   16         ID        12-20                    0.86
   17         ID        20-30                    0.79
   18         ID        30-50                    0.74
   19         ID        50-100                   0.68
   20         ID
   21         IT       5       0       0     300
   22         IO       5       0       0
   23         IN       5       0       0
   24         JR    PREC    0.86    0.79    0.74    0.68
              *
   25         KK    95-5
   26         KM   REVISED FROM GCW MASTER DRAINAGE STUDY, MINUS OFFV
   27         BA   .0303
   28         PB    2.77
   29         PC       0   0.020   0.059   0.080   0.110   0.144   0.150   0.160   0.168   0.171
   30         PC   0.180   0.182   0.187   0.190   0.197   0.202   0.210   0.220   0.230   0.241
   31         PC   0.250   0.259   0.265   0.280   0.290   0.300   0.305   0.309   0.310   0.317
   32         PC   0.321   0.327   0.333   0.346   0.361   0.381   0.408   0.430   0.477   0.514
   33         PC   0.561   0.630   0.710   0.720   0.731   0.752   0.779   0.790   0.795   0.804
   34         PC   0.810   0.820   0.826   0.840   0.859   0.889   0.910   0.938   0.966   0.970
   35         PC   0.974   0.979   0.981   0.983   0.985   0.989   0.990   0.992   0.993   0.996
   36         PC   0.997   0.999   1.000
   37         LS       0    92.2
   38         UD   0.074
              *
   39         KK  DHD01B
   40         KM   FACILITY E-9
   41         KM   FLOW SPLIT AT VTN CULVERT 1
   42         KM   FLOW SPLITS TO BETWEEN NB AND SB ROADS OF US-95
   43         KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
   44         DT  DCHD1B
   45         DI       0     133     187     250
   46         DQ       0     120     135     150
              *
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1 HEC-1 INPUT PAGE 2

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LINE          ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

   47         KK    OFF8
   48         KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
   49         BA   .0133
   50         PB    2.77
   51         LS       0    92.2
   52         UD   0.103
              *
   53         KK    OFFY
   54         BA   .0125
   55         PB    2.77
   56         LS       0    95.0
   57         UD   0.113
              *
   58         KK  CHD02B
   59         KM   COMBINE RDHD1B, OFF8, OFFY
   60         KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
   61         HC       3
              *
   62         KK  DHD02B
   63         KM   FACILITY E-10
   64         KM   FLOW SPLIT AT VTN CULVERT 2
   65         KM   FLOW SPLITS TO BETWEEN NB AND SB ROADS OF US-95
   66         KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
   67         DT  DCHD2B
   68         DI       0     100     138
   69         DQ       0      99     135
              *
   70         KK  WGED1A
   71         BA   .0167
   72         PB    2.93
   73         LS       0    94.6
   74         UD    .096
              *
   75         KK  WGED1B
   76         BA   .0367
   77         PB    2.77
   78         LS       0    92.8
```

```
 79          UD    .110
             *

 80          KK   STRT3
 81          BA   .0016
 82          PB    2.93
 83          LS       0    98.0
 84          UD    .050
             *
```



```
LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9.....10

 85          KK   WPT49
 86          KM   TOTAL KYLE CANYON DEVELOPMENT DISCHARGE TOWARD VTN CULVERT 4
 87          HC       3
             *

 88          KK    OFFW
 89          BA   .0122
 90          PB    2.77
 91          LS       0    92.0
 92          UD    .089
             *

 93          KK  CHD04B
 94          KM   COMBINE RDHD2B, WPT49, OFFW
 95          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
 96          HC       3
             *

 97          KK    WBU3
 98          BA   .0661
 99          PB    2.93
100          LS       0    95.0
101          UD    .127
             *

102          KK   STRT2
103          BA   .0035
104          PB    2.93
105          LS       0    98.0
106          UD    .078
             *

107          KK  GRAND3
108          BA   .0100
109          PB    2.93
110          LS       0    98.0
111          UD    .124
             *

112          KK   WBU2B
113          BA   .0214
114          PB    2.93
115          LS       0    95.0
116          UD    .092
             *

117          KK    WGC1
118          BA   .0187
119          PB    2.93
120          LS       0    95.0
121          UD    .070
             *
```



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LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9.....10

122          KK   WPT48
123          KM   TOTAL KYLE CANYON DEVELOPMENT DISCHARGE TOWARD VTN CULVERT 5
124          HC       5
             *

125          KK  CHD05B
126          KM   COMBINE CHD04B, WPT48
127          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
128          KM   DISCHARGE DIRECTLY INTO EXISTING US-95 INTERIM MPU FACILITY
129          HC       2
             *

130          KK    WBU1
131          BA   .0358
132          PB    2.93
133          LS       0    95.0
134          UD    .102
             *

135          KK   STRT1
136          BA   .0048
137          PB    2.93
138          LS       0    98.0
139          UD    .090
             *

140          KK   WBU2A
141          BA   .0505
142          PB    2.93
143          LS       0    95.0
144          UD    .114
             *

145          KK    WL2B
146          BA   .0631
147          PB    2.93
148          LS       0    90.0
149          UD    .160
             *

150          KK  GRAND2
151          BA   .0043
152          PB    2.93
153          LS       0    98.0
154          UD    .146
             *

155          KK   DUMMY
156          HC       5
             *
```



```
LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9.....10

157          KK  HORSE3
158          BA   .0117
159          PB    2.93
160          LS       0    98.0
161          UD    .098
             *

162          KK   WPT46
163          KM   TOTAL KYLE CANYON DEVELOPMENT DISCHARGE TOWARD VTN CULVERT 6
164          HC       2
             *
```

```
165          KK   OFF14
166          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
167          BA   .0128
168          PB    2.77
169          LS       0    94.7
170          UD   0.074
             *

171          KK  CHD06B
172          KM   COMBINE CHD05B, WPT46, OFF14
173          KM   REVISED FROM GCW MASTER DRAINAGE STUDY
174          KM   TO ACCOUNT FOR DIRECT CONNECTION FROM CHD05B TO US-95 INTERIM MPU FACILITY
175          HC       3
             *

176          KK   95-9A
177          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
178          BA   .0110
179          PB    2.77
180          LS       0    94.7
181          UD   0.095
             *

182          KK  CHD07B
183          KM   COMBINE CHD06B, 95-9A
184          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
185          HC       2
             *

186          KK   OFF15
187          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
188          BA   .0348
189          PB    2.77
190          LS       0    94.7
191          UD   0.108
             *
1                                          HEC-1 INPUT                                          PAGE  6

        LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9.....10

192          KK  CHD7B2
193          KM   COMBINE CHD07B, OFF15
194          KM   COMBINE FLOWS IN MPU FACILITY
195          KM   REVISED FROM GCW MASTER DRAINAGE STUDY
196          HC       2
             *

197          KK  OFF17B
198          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
199          KM   ADDED FROM HORSE INTERCHANGE MODEL
200          BA   .0080
201          PB   2.773
202          LS       0    92.1
203          UD   0.069
             *

204          KK  OFF17A
205          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
206          KM   ADDED FROM HORSE INTERCHANGE MODEL
207          BA   .0305
208          PB   2.773
209          LS       0    92.1
210          UD   0.104
             *

211          KK  COFF17
212          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
213          KM   ADDED FROM HORSE INTERCHANGE MODEL
214          KM   COMBINE OFF17A, OFF17B
215          KM   CULVERT AT BASIN OFF24B
216          HC       2
             *

217          KK     ON1
218          KM   START CENTENNIAL POINT HEC-1 DATA
219          BA   .0042
220          PB    2.86
221          LS       0    91.2
222          UD   0.085
             *

223          KK    ON4A
224          BA   .0045
225          LS       0    91.2
226          UD   0.077
             *

227          KK      C1
228          KM   COMBINE ON1 AND ON4A
229          HC       2
             *
1                                          HEC-1 INPUT                                          PAGE  7

        LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9.....10

230          KK      D1
231          KM   DIVERT FLOW INTO BASIN ON6
232          DT    DIV1
233          DI       0      16
234          DQ       0      13
             *

235          KK     ON5
236          BA   .0052
237          LS       0    91.2
238          UD   0.080
             *

239          KK      C2
240          KM   COMBINE C1 AND ON5
241          HC       2
             *

242          KK     D1A
243          KM   DIVERT FLOW FOR LATER USE IN HEC-1 RUN
244          DT   DIV1A
245          DI       0      50
246          DQ       0      50
             *

247          KK    ON4B
248          BA   .0031
249          LS       0    91.2
250          UD   0.085
             *

251          KK    RET1
252          KM   RETRIEVE FLOW FROM D1
253          DR    DIV1
             *

254          KK     ON6
255          BA   .0039
256          LS       0    91.2
```

```
257          UD   0.074
             *

258          KK      C3
259          KM   COMBINE RET1 AND ON6
260          HC       2
             *

261          KK     D1B
262          KM   DIVERT FLOW FOR LATER USE IN HEC-1 RUN
263          DT   DIV1B
264          DI       0      50
265          DQ       0      50
             *
1                                        HEC-1 INPUT                                        PAGE  8

        LINE         ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

266          KK     ON2
267          BA   .0050
268          LS       0    91.2
269          UD   0.080
             *

270          KK     ON3
271          BA   .0063
272          LS       0    91.5
273          UD   0.079
             *

274          KK     ON9
275          BA   .0045
276          LS       0    91.4
277          UD   0.096
             *

278          KK      C4
279          KM   COMBINE ON2, ON3 AND ON9
280          HC       3
             *

281          KK      D2
282          KM   DIVERT FLOW INTO BASIN ON8
283          DT    DIV2
284          DI       0      29
285          DQ       0      24
             *

286          KK    ON10
287          BA   .0025
288          LS       0    91.5
289          UD   0.071
             *

290          KK      C5
291          KM   COMBINE C4 AND ON10
292          HC       2
             *

293          KK      D3
294          KM   DIVERT FLOW INTO BASIN ON7
295          DT    DIV3
296          DI       0      10
297          DQ       0       8
             *

298          KK    ON11
299          BA   .0025
300          LS       0    91.5
301          UD   0.067
             *
1                                        HEC-1 INPUT                                        PAGE  9

        LINE         ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

302          KK      C6
303          KM   COMBINE C5 AND ON11
304          HC       2
             *

305          KK     D1C
306          KM   DIVERT FLOW FOR LATER USE IN HEC-1 RUN
307          DT   DIV1C
308          DI       0      50
309          DQ       0      50
             *

310          KK    CD1C
311          KM   COMBINE D1A, ON4B, D1B AND D1C
312          KM   PICK UP AT OFF23
313          HC       4
             *

314          KK   RCD1C
315          KM   ROUTE CD1C TO BASIN OFF23
316          RK    2640  0.0346    0.02            TRAP     100       2
             *

317          KK  DRCD1C
318          KM   DIVERT FLOW TO BASIN OFF23
319          DT  DOFF23
320          DI       0      50     100
321          DQ       0      50     100
             *

322          KK     ON8
323          BA   .0042
324          LS       0    83.5
325          UD   0.074
             *

326          KK    RET2
327          KM   RETRIEVE FLOW FROM D2
328          DR    DIV2
             *

329          KK      C7
330          KM   COMBINE ON11 AND RET2
331          HC       2
             *

332          KK    RET3
333          KM   RETRIEVE FLOW FROM D3
334          DR    DIV3
             *
1                                        HEC-1 INPUT                                        PAGE 10

        LINE         ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

335          KK     ON7
336          BA   .0073
337          LS       0    91.3
338          UD   0.077
             *
```

```
339          KK      C8
340          KM   COMBINE C7, RET3 AND ON7
341          HC       3
             *

342          KK   RET1A
343          KM   RETRIEVE FLOW FROM D1A IN TEE PEE
344          DR   DIV1A
             *

345          KK   RET1B
346          KM   RETRIEVE FLOW FROM D1B IN TEE PEE
347          DR   DIV1B
             *

348          KK   RET1C
349          KM   RETRIEVE FLOW FROM D1C IN TEE PEE
350          DR   DIV1C
             *

351          KK      C9
352          KM   COMBINE C8, RET1A, RET1B, RET1C IN TEE PEE
353          KM   END CENTENNIAL POINT HEC-1 DATA
354          HC       3
             *

355          KK    ON2D
356          KM   START GRAND CANYON APARTMENTS HEC-1 DATA
357          BA   .0105
358          PB    2.90
359          LS       0      95
360          UD   0.094
             *

361          KK    ON5D
362          BA   .0038
363          LS       0      95
364          UD   0.067
             *

365          KK     CP1
366          KM   COMBINE ON2D AND ON5D
367          HC       2
             *
1                                        HEC-1 INPUT                                    PAGE 11

           LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

368          KK    ON3D
369          BA   .0036
370          LS       0      95
371          UD   0.084
             *

372          KK     CP2
373          KM   COMBINE CP1 AND ON3D
374          HC       2
             *

375          KK    ON1D
376          BA   .0075
377          LS       0      95
378          UD   0.079
             *

379          KK    ON4D
380          BA   .0041
381          LS       0      95
382          UD   0.096
             *

383          KK     CP3
384          KM   COMBINE ON1D AND ON4D
385          HC       2
             *

386          KK     CP4
387          KM   COMBINE CP2 AND CP3
388          KM   END GRAND CANYON APARTMENTS HEC-1 DATA
389          HC       2
             *

390          KK  CENGCA
391          KM   COMBINE DRCD1C, C9, CP4
392          KM   CD1C IS DIVERSION OF FLOW ON TEE PEE FROM CENTENNIAL POINT
393          KM   CP4 AND C9 ARE ENDING OF THE APARTMENT COMPLEX AND DEVELOPMENT
394          HC       4
             *

395          KK    WML4
396          BA   .0373
397          PB    3.00
398          LS       0    93.2
399          UD    .121
             *

400          KK  SHAUM1
401          BA   .0066
402          PB    3.00
403          LS       0    98.0
404          UD    .098
             *
1                                        HEC-1 INPUT                                    PAGE 12

           LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

405          KK   WML3A
406          BA   .0174
407          PB    3.00
408          LS       0    95.0
409          UD    .080
             *

410          KK    WML2
411          BA   .0858
412          PB    3.00
413          LS       0    94.2
414          UD    .123
             *

415          KK   DUMMY
416          HC       4
             *

417          KK   EGAN1
418          BA   .0048
419          PB    3.00
420          LS       0    98.0
421          UD    .104
             *

422          KK  RACL1A
423          BA   .0062
424          PB    3.00
```

```
425          LS       0    98.0
426          UD    .090
             *

427          KK   RA-EG
428          KM   TOTAL FLOW AT INTERSECTION OF RACEL AND EGAN CREST
429          KM   ROUTED EAST IN RACEL
430          HC       3
             *

431          KK    WML1
432          BA   .0232
433          PB    3.00
434          LS       0    94.9
435          UD    .098
             *

436          KK   STRT4
437          BA   .0031
438          PB    3.00
439          LS       0    98.0
440          UD    .125
             *
```

1 HEC-1 INPUT PAGE 13

```
LINE         ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

441          KK    WL3A
442          BA   .0324
443          PB    3.00
444          LS       0    90.0
445          UD    .125
             *

446          KK  WSCHL1
447          BA   .0573
448          PB    3.00
449          LS       0    91.0
450          UD    .101
             *

451          KK   DUMMY
452          HC       5
             *

453          KK   HUAL1
454          BA   .0057
455          PB    3.00
456          LS       0    98.0
457          UD    .130
             *

458          KK  RACL1B
459          BA   .0045
460          PB    3.00
461          LS       0    98.0
462          UD    .071
             *

463          KK   RA-HU
464          KM   TOTAL FLOW AT INTERSECTION OF RACEL AND HUALAPAI
465          KM   ROUTED EAST IN RACEL
466          HC       3
             *

467          KK     WL1
468          BA   .1068
469          PB    2.93
470          LS       0    90.0
471          UD    .187
             *

472          KK   WNVE1
473          BA   .0063
474          PB    2.93
475          LS       0    94.0
476          UD    .075
             *
```

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```
LINE         ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

477          KK    WL2A
478          BA   .0502
479          PB    2.93
480          LS       0    90.0
481          UD    .156
             *

482          KK  RACL1C
483          BA   .0068
484          PB    2.93
485          LS       0    98.0
486          UD    .096
             *

487          KK   DUMMY
488          HC       5
             *

489          KK  GRAND1
490          BA   .0031
491          PB    2.93
492          LS       0    98.0
493          UD    .132
             *

494          KK    CP26
495          KM   KYLE CANYON DEVELOPMENT TOTAL DISCHARGE AT GRAND CANYON AND OSTINATO
496          KM   ROUTED THRU CENTENNIAL POINT TOWARD US-95
497          HC       2
             *

498          KK    CCP4
499          KM   COMBINE DRCD1C, C9, CP4, CP26
500          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
501          HC       2
             *

502          KK  OFF21B
503          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
504          KM   BASIN IS DEVELOPED, CHECK FOR REFERENCE MATERIAL
505          BA   .0414
506          PB   2.775
507          LS       0      95
508          UD   0.110
             *

509          KK  COF21B
510          KM   COMBINE OFF21B WITH FLOW FROM CENTENNIAL POINT AND GRAND CANYON APTS
511          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
512          HC       2
             *
```

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```
LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

  513     KK  ROFF23
  514     KM   RETRIEVE FLOW FROM DIVOFF23
  515     KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
  516     DR  DOFF23
          *

  517     KK   OFF23
  518     KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
  519     BA   .0091
  520     PB   2.787
  521     LS      0      95
  522     UD   0.109
          *

  523     KK  COFF23
  524     KM   COMBINE OFF23, DOFF23
  525     KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
  526     HC      2
          *

  527     KK  NW29-C
  528     KM   REFERENCED FROM 2008 MPU
  529     BA   0.132
  530     PB    3.00
  531     LS      0    92.4
  532     UD   0.214
          *

  533     KK  RNW29C
  534     KM  ROUTE NW29-C TO CNW71-W
  535     KM  FACILITY = CENTENNIAL PARKWAY CHANNEL WEST/GRAND TETON BRANCH
  536     KM  FACILITY ID-MILE = CNGT 0118
  537     KM  LINING = ARCH CON
  538     KM   REFERENCED FROM 2008 MPU
  539     RD    2100   0.037   0.015       0    TRAP       6       0
          *

  540     KK  NW71-W
  541     KM   REFERENCED FROM 2008 MPU
  542     BA   0.104
  543     PB    2.92
  544     LS      0    92.5
  545     UD   0.206
          *

  546     KK  CNW71W
  547     KM  COMBINE RNW29C AND NW71-W
  548     KM  CENTENNIAL PKWY CHANNEL WEST/GRAND TETON BRANCH @ HUALAPAI
  549     KM   REFERENCED FROM 2008 MPU
  550     HC      2
          *
1                                        HEC-1 INPUT                                        PAGE 16

LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

  551     KK  RCNW71-W
  552     KM  ROUTE CNW71-W TO CNW71-E
  553     KM  FACILITY = CENTENNIAL PARKWAY CHANNEL WEST/GRAND TETON BRANCH
  554     KM  FACILITY ID-MILE = CNGT 0000,0043
  555     KM  LINING = RCB
  556     KM   REFERENCED FROM 2008 MPU
  557     RD    6270   0.030   0.015       0    TRAP       6       0
          *

  558     KK  NW71-E
  559     KM   REFERENCED FROM 2008 MPU
  560     BA   0.238
  561     PB    2.85
  562     LS      0    88.3
  563     UD   0.293
          *

  564     KK  CNW71E
  565     KM  COMBINE NW71-E AND RCNW71-W
  566     KM  CENTENNIAL PKWY CHANNEL WEST/GRAND TETON BRANCH @ US 95
  567     KM   REFERENCED FROM 2008 MPU
  568     HC      2
          *

  569     KK    GT1
  570     BA   .0243
  571     PB    3.00
  572     LS      0    98.0
  573     UD    .256
          *

  574     KK    OFFU
  575     BA   .0398
  576     PB    2.93
  577     LS      0    94.8
  578     UD   0.118
          *

  579     KK  CP26WT
  580     KM   COMBINE CNW71-E, GT1, OFFU
  581     HC      3
          *

  582     KK   95STH
  583     KM   FLOW CONVEYED SOUTH IN US-95 AT GRAND TETON
  584     KM   FLOW CONVEYED IN FACILITY ID = CN95 0167
  585     KM   COMBINE CP26WT, COFF23, COF218, COFF17, CHD7B2
  586     HC      5
          *
1                                        HEC-1 INPUT                                        PAGE 17

LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

  587     KK   OFF21
  588     KM   OFFSITE MPA BASIN
  589     PB    3.08
  590     BA   .4788
  591     LS      0    87.6
  592     UD   0.425
          *

  593     KK   OFF20
  594     KM   OFFSITE MPA BASIN
  595     BA   .3349
  596     PB    3.01
  597     LS      0    86.3
  598     UD   0.440
          *

  599     KK     DB1
  600     KM   DETENTION BASIN 1
  601     BA   .0243
  602     PB    3.00
  603     LS      0    94.0
  604     UD   0.174
          *
```

```
605          KK     PT1
606          KM   DETENTION BASIN 1 INFLOW
607          HC       3
             *

608          KK    DET1
609          KM   OUTLET = 2 - 30" ORIFICE
610          KM   DICHARGE INTO SOUTHERN MAINTAINED ARROYO AND INTO DETENTION BASIN 2
611          KO       1
612          RS       1    ELEV    29.5
613          SA       0    0.26    3.14    5.20    6.64
614          SE    29.5      30      32      34    41.6
615          SQ       0   23.62   85.18  127.22  158.48
616          SE    29.5      31      34      38      42
             *

617          KK    DIV1
618          KM   DIVERT PORTION OF OUTFLOW EAST INTO SOUTHERN ARROYO
619          DT   DIV-1
620          DI       0     148
621          DQ       0      68
             *

622          KK   OFF18
623          KM   OFFSITE MPA BASIN
624          BA   .2098
625          PB    3.00
626          LS       0    86.0
627          UD   0.334
             *
1                                        HEC-1 INPUT                                    PAGE 18

LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

628          KK     DB2
629          KM   DETENTION BASIN 2
630          BA   .0316
631          PB    3.00
632          LS       0    94.0
633          UD   0.180
             *

634          KK     PT2
635          KM   DETENTION BASIN 2 INFLOW
636          KM   COMBINATION OF OFF18, DB2, PLUS 30" FLOW PIPE FROM DET1
637          HC       3
             *

638          KK    DET2
639          KM   OUTLET = 27" ORIFICE
640          KO       1
641          RS       1    ELEV      23
642          SA       0    0.76    8.75    9.67   10.44
643          SE      23      24      29      30      32
644          SQ       0   16.57   41.71   45.89   53.28
645          SE      23      25      29      30      32
             *

646          KK    DIV2
647          KM   DIVERT OUTFLOW INTO NORTHERN ARROYO
648          DT   DIV-2
649          DI       0     150
650          DQ       0     150
             *

651          KK   OFF16
652          KM   OFFSITE MPA BASIN
653          BA   .3598
654          PB    3.00
655          LS       0    86.3
656          UD   0.329
             *

657          KK     DB3
658          KM   DETENTION BASIN 3
659          BA   .0302
660          PB    3.00
661          LS       0    94.0
662          UD   0.192
             *

663          KK     PT3
664          KM   DETENTION BASIN 3 INFLOW
665          HC       2
             *
1                                        HEC-1 INPUT                                    PAGE 19

LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

666          KK    DET3
667          KM   OUTLET = 30" ORIFICE
668          KO       1
669          RS       1    ELEV       0
670          SA       0    0.50    6.66    9.09
671          SE       0       1       6    11.7
672          SQ       0   20.46   69.89   77.46
673          SE       0       2      10      12
             *

674          KK    DIV3
675          KM   DIVERT OUTFLOW INTO IRON MOUNTAIN
676          DT   DIV-3
677          DI       0     150
678          DQ       0     150
             *

679          KK   EMPTY
680          HC       3
             *

681          KK   WPRK3
682          BA   .0222
683          PB    3.00
684          LS       0    84.0
685          UD    .088
             *

686          KK    WGC2
687          BA   .0083
688          PB    3.00
689          LS       0    95.0
690          UD    .068
             *

691          KK   WML3B
692          BA   .0425
693          PB    3.00
694          LS       0    95.0
695          UD    .128
             *

696          KK   EGAN2
697          BA   .0037
698          PB    3.00
699          LS       0    98.0
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 700          UD    .118
              *
1                                        HEC-1 INPUT                                        PAGE 20

 LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9.....10

 701          KK   AROY2
 702          BA   .0132
 703          PB    3.00
 704          LS       0    88.0
 705          UD    .100
              *

 706          KK   DUMMY
 707          HC       5
              *

 708          KK  WPRK2A
 709          BA   .0059
 710          PB    3.00
 711          LS       0    84.0
 712          UD    .074
              *

 713          KK  WPRK2B
 714          BA   .0022
 715          PB    3.00
 716          LS       0    84.0
 717          UD    .069
              *

 718          KK   AROY3
 719          BA   .0043
 720          PB    3.00
 721          LS       0    88.0
 722          UD    .100
              *

 723          KK    WL3B
 724          BA   .0253
 725          PB    3.00
 726          LS       0    90.0
 727          UD    .122
              *

 728          KK   DUMMY
 729          HC       5
              *

 730          KK  HORSE2
 731          BA   .0117
 732          PB    3.00
 733          LS       0    98.0
 734          UD    .103
              *
1                                        HEC-1 INPUT                                        PAGE 21

 LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9.....10

 735          KK  HUAL2A
 736          BA   .0053
 737          PB    3.00
 738          LS       0    98.0
 739          UD    .129
              *

 740          KK   HU-HO
 741          KM   TOTAL FLOW AT INTERSECTION OF HUALAPAI AND HORSE
 742          KM   ROUTED NORTH IN  HUALAPAI
 743          HC       3
              *

 744          KK    WML5
 745          BA   .0370
 746          PB    3.00
 747          LS       0    95.0
 748          UD    .096
              *

 749          KK  WSCHL2
 750          BA   .0171
 751          PB    3.00
 752          LS       0    91.0
 753          UD    .079
              *

 754          KK   WPRK1
 755          BA   .0115
 756          PB    3.00
 757          LS       0    84.0
 758          UD    .066
              *

 759          KK   STRT5
 760          BA   .0065
 761          PB    3.00
 762          LS       0    98.0
 763          UD    .081
              *

 764          KK   DUMMY
 765          HC       5
              *

 766          KK   AROY5
 767          BA   .0122
 768          PB    3.00
 769          LS       0    88.0
 770          UD    .100
              *
1                                        HEC-1 INPUT                                        PAGE 22

 LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9.....10

 771          KK   WMLA1
 772          BA   .0697
 773          PB    3.00
 774          LS       0    95.0
 775          UD    .129
              *

 776          KK  HUAL2B
 777          BA   .0124
 778          PB    3.00
 779          LS       0    98.0
 780          UD    .250
              *

 781          KK   DUMMY
 782          HC       4
              *

 783          KK   DIV-2
 784          KM   DETENTION BASIN 2 DISCHARGE INTO NORTHERN MAINTAINED ARROYO
```

```
785          DR   DIV-2
             *
786          KK   AROY4
787          KM   DOWNSTREAM OF NORTHERN MAINTAINED ARROYO OUTFALL DISCHARGE
788          BA   .0080
789          PB    3.00
790          LS      0    88.0
791          UD    .100
             *
792          KK    WML7
793          BA   .0380
794          PB    3.00
795          LS      0    95.0
796          UD    .097
             *
797          KK   WPRK4
798          BA   .0048
799          PB    3.00
800          LS      0    84.0
801          UD    .083
             *
802          KK  SHAUM2
803          BA   .0080
804          PB    3.00
805          LS      0    98.0
806          UD    .110
             *
1                                        HEC-1 INPUT                                    PAGE 23
         LINE        ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
807          KK   DUMMY
808          HC       5
             *
809          KK    WL7
810          BA   .0207
811          PB    3.00
812          LS      0    90.0
813          UD    .101
             *
814          KK   WNVE2
815          BA   .0018
816          PB    3.00
817          LS      0    88.0
818          UD    .131
             *
819          KK    WL6
820          BA   .0060
821          PB    3.00
822          LS      0    90.0
823          UD    .078
             *
824          KK  HORS1A
825          BA   .0086
826          PB    3.00
827          LS      0    98.0
828          UD    .095
             *
829          KK   SH-HO
830          KM   TOTAL FLOW AT INTERSECTION OF SHAUMBER AND HORSE
831          KM   ROUTED NORTH IN SHAUMBER
832          HC       5
             *
833          KK   DIV-3
834          KM   DETENTION BASIN 3 DISCHARGE INTO IRON MOUNTAIN
835          DR   DIV-3
             *
836          KK    WL8
837          BA   .0133
838          PB    3.00
839          LS      0    90.0
840          UD    .085
             *
1                                        HEC-1 INPUT                                    PAGE 24
         LINE        ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
841          KK   WNVE3
842          BA   .0028
843          PB    3.00
844          LS      0    88.0
845          UD    .159
             *
846          KK    WL5
847          BA   .0402
848          PB    3.00
849          LS      0    90.0
850          UD    .107
             *
851          KK  IRON1A
852          BA   .0055
853          PB    3.00
854          LS      0    98.0
855          UD    .087
             *
856          KK   DUMMY
857          HC       5
             *
858          KK  SHAUM3
859          BA   .0048
860          PB    3.00
861          LS      0    98.0
862          UD    .064
             *
863          KK   IR-SH
864          KM   TOTAL FLOW AT INTERSECTION OF IRON MOUNTAIN AND SHAUMBER
865          KM   ROUTED EAST IN IRON MOUNTAIN
866          HC       3
             *
867          KK    WML6
868          BA   .0284
869          PB    3.00
870          LS      0    95.0
871          UD    .085
             *
872          KK  HORS1B
873          BA   .0032
```

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874          PB    3.00
875          LS       0    98.0
876          UD    .050
             *
1                                        HEC-1 INPUT                                                    PAGE 25
        LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9.....10

877          KK     WL4
878          BA   .0492
879          PB    3.00
880          LS       0    90.0
881          UD    .133
             *
882          KK   DUMMY
883          HC       3
             *
884          KK   DIV-1
885          KM   OUTFLOW FROM DETENTION BASIN 1 INTO SOUTHERN MAINTAINED ARROYO
886          DR   DIV-1
             *
887          KK   AROY1
888          KM   DOWNSTREAM OF SOUTHERN MAINTAINED ARROYO OUTFALL DISCHARGE
889          BA   .0028
890          PB    3.00
891          LS       0    88.0
892          UD    .100
             *
893          KK   WPRK5
894          BA   .0037
895          PB    3.00
896          LS       0    84.0
897          UD    .066
             *
898          KK  SHEEP1
899          KM   ONSITE MPA BASIN NWSHP
900          BA   .1008
901          PB    3.00
902          LS       0    93.8
903          UD   0.287
             *
904          KK   SM-IR
905          KM   TOTAL FLOW IN SHEEP MOUNTAIN PARKWAY AT ITS INTERSECTION WITH IRON MOUNTAIN R
906          KM   ROUTED EAST IN IRON MOUNTAIN
907          HC       5
             *
908          KK  IRON1B
909          BA   .0044
910          PB    3.00
911          LS       0    98.0
912          UD    .101
             *
1                                        HEC-1 INPUT                                                    PAGE 26
        LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9.....10

913          KK   HU-IR
914          KM   TOTAL FLOW AT INTERSECTION OF HUALAPAI AND IRON MOUNTAIN
915          KM   ROUTED NORTH IN REGIONAL FACILITY ALIGNMENT
916          HC       4
             *
917          KK  OFF4-1
918          KM  REFERENCED FROM 2008 MPU
919          BA   0.301
920          PB    3.40
921          LS       0    86.8
922          UD   0.295
             *
923          KK  ROFF41
924          KM  ROUTE OFF4-1 TO COFF4-2
925          KM  KYLE CANYON ROAD
926          KM  REFERENCED FROM 2008 MPU
927          RD    5800  0.0414   0.016       0    TRAP       0      50
             *
928          KK  OFF4-2
929          KM  REFERENCED FROM 2008 MPU
930          BA   0.420
931          PB    3.34
932          LS       0    85.2
933          UD   0.140
             *
934          KK  COFF42
935          KM  COMBINE ROFF4-1 AND OFF4-2
936          KM  REFERENCED FROM 2008 MPU
937          HC       2
             *
938          KK  RCOFF4-2
939          KM  ROUTE COFF4-2 TO COFF5-1
940          KM  KYLE CANYON ROAD
941          KM  REFERENCED FROM 2008 MPU
942          RD    2800  0.0392   0.016       0    TRAP       0      50
             *
943          KK  OFF5-1
944          KM  REFERENCED FROM 2008 MPU
945          BA   0.296
946          PB    3.26
947          LS       0    84.1
948          UD   0.222
             *
1                                        HEC-1 INPUT                                                    PAGE 27
        LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9.....10

949          KK  COFF51
950          KM  COMBINE RCOFF4-2 AND OFF5-1
951          KM  REFERENCED FROM 2008 MPU
952          HC       2
             *
953          KK  RCOFF5-1
954          KM  ROUTE COFF5-1 TO 2CNW1-C
955          KM  FACILITY = MOCCASIN AND KYLE CANYON ROAD
956          KM  FACILITY ID-MILE = MOKC 0380
957          KM  LINING = RCP
958          KM  REFERENCED FROM 2008 MPU
959          RD    5800  0.0373   0.013       0    CIRC     7.5       0
             *
960          KK  OFF5-2
961          KM  REFERENCED FROM 2008 MPU
962          BA   0.395
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963           PB    3.20
964           LS       0    86.9
965           UD   0.317
              *

966           KK  ROFF52
967           KM  ROUTE OFF5-2 TO CNW1-C
968           KM  FACILITY =KYLE CANYON ROAD AND UNKNOWN
969           KM  FACILITY ID-MILE = KCUN 0000
970           KM  LINING = RCP
971           KM  REFERENCED FROM 2008 MPU
972           RD    2300   0.022   0.013       0    CIRC       7       0
              *

973           KK   NW1-C
974           KM  REFERENCED FROM 2008 MPU
975           BA   0.293
976           PB    3.12
977           LS       0    84.3
978           UD   0.263
              *

979           KK  CNW1-C
980           KM  COMBINE ROFF5-2 AND NW1-C
981           KM  REFERENCED FROM 2008 MPU
982           HC       2
              *

983           KK  2CNW1C
984           KM  COMBINE RCOFF5-1 AND CNW1-C
985           KM  REFERENCED FROM 2008 MPU
986           HC       2
              *
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9.....10

987           KK  R2CNW1-C
988           KM  ROUTE 2CNW1-C TO CNW-7
989           KM  FACILITY =MOCCASIN AND KYLE CANYON ROAD
990           KM  FACILITY ID-MILE = MOKC 0325
991           KM  LINING = RCB
992           KM  REFERENCED FROM 2008 MPU
993           RD    5700  0.0365   0.015       0    TRAP       9       0
              *

994           KK   NW7-C
995           KM  REFERENCED FROM 2008 MPU
996           BA   0.488
997           PB    3.03
998           LS       0    87.2
999           UD   0.364
              *

1000          KK   CNW-7
1001          KM  COMBINE NW7-C AND R2CNW1-C
1002          KM  REFERENCED FROM 2008 MPU
1003          HC       2
              *

1004          KK  RCNW7C
1005          KM  ROUTE CNW7-C TO CNW21-C
1006          KM  FACILITY =MOCCASIN AND KYLE CANYON ROAD
1007          KM  FACILITY ID-MILE = MOKC
1008          KM  LINING = RCB
1009          KM  REVISED FROM 2008 MPU
1010          RD    2660  0.0338   0.015       0    TRAP      20       0
              *

1011          KK  NW21-C
1012          KM   PROPOSED ULTIMATE CONDITION MPA BASIN
1013          BA   .1552
1014          PB    3.00
1015          LS       0    92.0
1016          UD   0.199
              *

1017          KK  CNW21C
1018          KM   COMBINE NW21-C AND CNW-7
1019          HC       2
              *

1020          KK  RCNW21-C
1021          KM  ROUTE CNW21-C TO CNW35-C
1022          KM  FACILITY =MOCCASIN AND KYLE CANYON ROAD
1023          KM  FACILITY ID-MILE = MOKC
1024          KM  LINING = RCB
1025          KM  REVISED FROM 2008 MPU
1026          RD    5450  0.0339   0.015       0    TRAP      20       0
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9.....10

1027          KK  NW35-C
1028          KM   PROPOSED ULTIMATE CONDITION MPA BASIN
1029          BA   .3447
1030          PB    2.93
1031          LS       0    90.5
1032          UD   0.291
              *

1033          KK  CNW35C
1034          KM   COMBINE NW35-C AND CNW21-C
1035          HC       2
              *

1036          KK    CKC5
1037          KM   COMBINE HU-IR, CNW35C
1038          HC       2
              *

1039          KK  NW50-C
1040          KM   PROPOSED ULTIMATE CONDITION MPA BASIN
1041          BA   .1677
1042          PB    2.92
1043          LS       0    87.8
1044          UD   0.179
              *

1045          KK    CKC6
1046          KM   COMBINE CKC5, NW50-C
1047          HC       2
              *

1048          KK  OFF1A-1
1049          KM  REFERENCED FROM 2008 MPU
1050          BA   1.144
1051          PB    3.40
1052          LS       0    77.0
1053          UD   0.546
              *

1054          KK  ROFF1A-1
1055          KM  ROUTE OFF1A-1 TO COFF1A-2
```

```
1056          KM  GRAND TETON
1057          KM  REFERENCED FROM 2008 MPU
1058          RD    2600  0.0392   0.016       0    TRAP       0      50
              *

1059          KK  OFF1A-2
1060          KM  REFERENCED FROM 2008 MPU
1061          BA   0.387
1062          PB    3.36
1063          LS       0    84.1
1064          UD   0.268
              *
1                                        HEC-1 INPUT                                                    PAGE 30

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9.....10

1065          KK  COFF1A-2
1066          KM  COMBINE ROFF1A-1 AND OFF1A-2
1067          KM  GRAND TETON AND SCOTTIE
1068          KM  REFERENCED FROM 2008 MPU
1069          HC       2
              *

1070          KK  RCFF1A-2
1071          KM  ROUTE COFF1A-2 TO OFF1A-3
1072          KM  SCOTTIE AND RACEL
1073          KM  REFERENCED FROM 2008 MPU
1074          RD    3600  0.0333   0.016       0    TRAP       0      50
              *

1075          KK  OFF1A-3
1076          KM  REFERENCED FROM 2008 MPU
1077          BA   0.303
1078          PB    3.34
1079          LS       0    83.0
1080          UD   0.319
              *

1081          KK  COFF1A-3
1082          KM  COMBINE RCFF1A-2 AND OFF1A-3
1083          KM  RACEL AND HURTADO
1084          KM  REFERENCED FROM 2008 MPU
1085          HC       2
              *

1086          KK  RCFF1A-3
1087          KM  ROUTE COFF1A-3 TO COFF1A-4
1088          KM  HURTADO AND HORSE
1089          KM  REFERENCED FROM 2008 MPU
1090          RD    3900  0.0308   0.016       0    TRAP       0      50
              *

1091          KK  OFF1A-4
1092          KM  REFERENCED FROM 2008 MPU
1093          BA   0.274
1094          PB    3.29
1095          LS       0    79.8
1096          UD   0.295
              *

1097          KK  COFF1A-4
1098          KM  COMBINE RCFF1A-3 AND OFF1A-4
1099          KM  HORSE AND REYMORE
1100          KM  REFERENCED FROM 2008 MPU
1101          HC       2
              *
1                                        HEC-1 INPUT                                                    PAGE 31

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9.....10

1102          KK  RCFF1A-4
1103          KM  ROUTE COFF1A-4 TO COFF1A-5
1104          KM  HORSE AND UNKNOWN STREET
1105          KM  REFERENCED FROM 2008 MPU
1106          RD    5100  0.0255   0.016       0    TRAP       0      50
              *

1107          KK  OFF1A-5
1108          KM  REFERENCED FROM 2008 MPU
1109          BA   0.418
1110          PB    3.21
1111          LS       0    78.9
1112          UD   0.354
              *

1113          KK  COFF1A-5
1114          KM  COMBINE RCFF1A-4 AND OFF1A-5
1115          KM  REFERENCED FROM 2008 MPU
1116          HC       2
              *

1117          KK  ROFF1A-5
1118          KM  ROUTE COFF1A-5 TO COFF2A
1119          KM  IRON MOUNTAIN
1120          KM  REFERENCED FROM 2008 MPU
1121          RD    2600  0.0288   0.016       0    TRAP       0      50
              *

1122          KK   OFF2A
1123          KM  REFERENCED FROM 2008 MPU
1124          BA   0.318
1125          PB    3.16
1126          LS       0    79.0
1127          UD   0.303
              *

1128          KK  COFF2A
1129          KM  COMBINE RCFF1A-5 AND OFF2A
1130          KM  REFERENCED FROM 2008 MPU
1131          HC       2
              *

1132          KK  RCOFF2A
1133          KM  ROUTE COFF2A AND COFF3
1134          KM  IRON MOUNTAIN
1135          KM  REFERENCED FROM 2008 MPU
1136          RD    2600  0.0333   0.016       0    TRAP       0      50
              *
1                                        HEC-1 INPUT                                                    PAGE 32

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9.....10

1137          KK    OFF3
1138          KM  REFERENCED FROM 2008 MPU
1139          BA   0.222
1140          PB    3.11
1141          LS       0    79.0
1142          UD   0.272
              *

1143          KK   COFF3
1144          KM  COMBINE RCOFF2A AND OFF3
1145          KM  REFERENCED FROM 2008 MPU
1146          HC       2
```

```
                *
1147            KK  RCOFF3
1148            KM  ROUTE COFF3 AND COFF2B
1149            KM  FACILITY = MOCCASIN AND SHEEP MOUNTAIN
1150            KM  FACILITY ID-MILE = MOSH 0053
1151            KM  LINING = CONCRETE
1152            KM  REFERENCED FROM 2008 MPU
1153            RD    2640  0.0139   0.015       0    TRAP      12       0
                *

1154            KK   OFF2B
1155            KM  REFERENCED FROM 2008 MPU
1156            BA   0.160
1157            PB    3.06
1158            LS       0    77.0
1159            UD   0.216
                *

1160            KK  COFF2B
1161            KM  COMBINE RCOFF3 AND OFF2B
1162            KM  REFERENCED FROM 2008 MPU
1163            HC       2
                *

1164            KK  RCOFF2B
1165            KM  ROUTE COFF2B TO COFF1A-6
1166            KM  FACILITY = MOCCASIN AND SHEEP MOUNTAIN
1167            KM  FACILITY ID-MILE = MOSH 0000
1168            KM  LINING = CONCRETE
1169            KM  REFERENCED FROM 2008 MPU
1170            RD    2640  0.0271   0.015       0    TRAP      12       0
                *

1171            KK  OFF1A-6
1172            KM  REFERENCED FROM 2008 MPU
1173            BA   0.473
1174            PB    3.05
1175            LS       0    77.0
1176            UD   0.355
                *
1                                        HEC-1 INPUT                                                    PAGE 33

                LINE        ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1177            KK  COFF1A-6
1178            KM  COMBINE RCOFF2B AND OFF1A-6
1179            KM  REFERENCED FROM 2008 MPU
1180            HC       2
                *

1181            KK  RCFF1A-6
1182            KM  ROUTE COFF1A-6 TO 2CNW5-C
1183            KM  FACILITY = LAS VEGAS WASH - MOCCASIN
1184            KM  FACILITY ID-MILE = LVMO 0494
1185            KM  LINING = CONCRETE
1186            KM  REFERENCED FROM 2008 MPU
1187            RD    2800  0.0288   0.015       0    TRAP      16       0
                *

1188            KK   NW2-C
1189            KM  REFERENCED FROM 2008 MPU
1190            BA   0.395
1191            PB    3.04
1192            LS       0    82.1
1193            UD   0.351
                *

1194            KK  RNW2-C
1195            KM  ROUTE NW2-C TO CNW5-C
1196            KM  RANTOOL
1197            KM  REFERENCED FROM 2008 MPU
1198            RD    2600   0.025   0.016       0    TRAP       0      50
                *

1199            KK   NW5-C
1200            KM  REFERENCED FROM 2008 MPU
1201            BA   0.274
1202            PB    2.96
1203            LS       0    79.7
1204            UD   0.419
                *

1205            KK  CNW5-C
1206            KM  COMBINE RNW2-C AND NW5-C
1207            KM  REFERENCED FROM 2008 MPU
1208            HC       2
                *

1209            KK  2CNW5-C
1210            KM  COMBINE RCFF1A-6 AND CNW5-C
1211            KM  REFERENCED FROM 2008 MPU
1212            HC       2
                *
1                                        HEC-1 INPUT                                                    PAGE 34

                LINE        ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1213            KK  RCNW5-C
1214            KM  ROUTE 2CNW5-C TO 2CNW11-C
1215            KM  FACILITY = LAS VEGAS WASH - MOCCASIN
1216            KM  FACILITY ID-MILE = LVMO 0445
1217            KM  LINING = CONCRETE
1218            KM  REFERENCED FROM 2008 MPU
1219            RD    2600  0.0288   0.015       0    TRAP      16       0
                *

1220            KK   NW9-C
1221            KM  REFERENCED FROM 2008 MPU
1222            BA   0.272
1223            PB    2.99
1224            LS       0    87.1
1225            UD   0.295
                *

1226            KK  RNW9-C
1227            KM  ROUTE NW9-C TO CNW11-C
1228            KM  WITCH MOUNTAIN
1229            KM  REFERENCED FROM 2008 MPU
1230            RD    2600  0.0192   0.016       0    TRAP       0      50
                *

1231            KK  NW11-C
1232            KM  REFERENCED FROM 2008 MPU
1233            BA   0.270
1234            PB    2.93
1235            LS       0    80.6
1236            UD   0.275
                *

1237            KK  CNW11-C
1238            KM  COMBINE RNW9-C AND NW11-C
1239            KM  WITCH MOUNTAIN AND MOCCASIN
1240            KM  REFERENCED FROM 2008 MPU
1241            HC       2
```

```
                *

1242            KK  2CNW11-C
1243            KM  COMBINE RCNW5-C AND CNW11-C
1244            KM  WITCH MOUNTAIN AND MOCCASIN
1245            KM  REFERENCED FROM 2008 MPU
1246            HC       2
                *

1247            KK  RCNW11-C
1248            KM  ROUTE 2CNW11-C TO CNW17-C
1249            KM  FACILITY = LAS VEGAS WASH - MOCCASIN
1250            KM  FACILITY ID-MILE = LVMO 0396
1251            KM  LINING = CONCRETE
1252            KM  REFERENCED FROM 2008 MPU
1253            RD    2600  0.0327   0.015       0    TRAP      16       0
                *
1                                          HEC-1 INPUT                                                    PAGE 35

LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9.....10

1254            KK  NW17-C
1255            KM  REFERENCED FROM 2008 MPU
1256            BA   0.429
1257            PB    2.89
1258            LS       0    86.4
1259            UD   0.357
                *

1260            KK  CNW17-C
1261            KM  COMBINE RCNW11-C AND NW17-C
1262            KM  RUFUS AND MOCCASIN
1263            KM  REFERENCED FROM 2008 MPU
1264            HC       2
                *

1265            KK  RCNW17-C
1266            KM  ROUTE CNW17-C TO CNW23-C
1267            KM  FACILITY = LAS VEGAS WASH AND MOCCASIN
1268            KM  FACILITY ID-MILE = LVMO 0346
1269            KM  LINING = CONCRETE
1270            KM  REFERENCED FROM 2008 MPU
1271            RD    2600  0.0287   0.015       0    TRAP      16       0
                *

1272            KK  NW23-C
1273            KM  REFERENCED FROM 2008 MPU
1274            BA   0.376
1275            PB    2.84
1276            LS       0    87.1
1277            UD   0.330
                *

1278            KK  CNW23-C
1279            KM  COMBINE RCNW17-C AND NW23-C
1280            KM  MAINWAL AND MOCCASIN
1281            KM  REFERENCED FROM 2008 MPU
1282            HC       2
                *

1283            KK  RCNW23-C
1284            KM  ROUTE CNW23-C TO 2C213B-5
1285            KM  FACILITY = LAS VEGAS WASH AND MOCCASIN
1286            KM  FACILITY ID-MILE = LVMO 0280
1287            KM  LINING = CONCRETE
1288            KM  REFERENCED FROM 2008 MPU
1289            RD    3500  0.0286   0.015       0    TRAP      16       0
                *

1290            KK  NW51-C
1291            KM   PROPOSED ULTIMATE CONDITION MPA BASIN
1292            BA   .4950
1293            PB    2.93
1294            LS       0    87.1
1295            UD   0.342
                *
1                                          HEC-1 INPUT                                                    PAGE 36

LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9.....10

1296            KK  CNW51-C
1297            KM   COMBINE NW51-C AND CNW23-C
1298            HC       2
                *

1299            KK     202
1300            KM  REFERENCED FROM 2008 MPU
1301            BA   5.550
1302            PB    4.19
1303            LS       0    80.0
1304            UD   0.438
                *

1305            KK    R202
1306            KM  ROUTE 202 TO C203
1307            KM  NATURAL WASH
1308            KM  TRAVEL LENGTH = 13,500
1309            KM  SLOPE = 5.3%
1310            KM  N = 0.040
1311            KM  HYDRAULIC RADIUS = 1.5
1312            KM  VELOCITY = 18.0
1313            KM  REFERENCED FROM 2008 MPU
1314            RM       3   0.209    0.15
                *

1315            KK     203
1316            KM  REFERENCED FROM 2008 MPU
1317            BA   6.405
1318            PB    4.20
1319            LS       0    80.0
1320            UD   0.561
                *

1321            KK     204
1322            KM  REFERENCED FROM 2008 MPU
1323            BA   2.712
1324            PB    4.04
1325            LS       0    80.0
1326            UD   0.521
                *

1327            KK    C203
1328            KM  COMBINE R202, 203 AND 204
1329            KM  REFERENCED FROM 2008 MPU
1330            HC       3
                *

1331            KK   RC203
1332            KM  ROUTE C203 TO C209-A
1333            KM  NATURAL WASH
1334            KM  TRAVEL LENGTH = 26,500
1335            KM  SLOPE = 5.4%
1336            KM  N = 0.040
1337            KM  HYDRAULIC RADIUS = 1.5
1                                          HEC-1 INPUT                                                    PAGE 37
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LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

1338      KM  VELOCITY = 18.1
1339      KM  REFERENCED FROM 2008 MPU
1340      RM       5   0.406    0.15
          *

1341      KK   209-A
1342      KM  REFERENCED FROM 2008 MPU
1343      BA   5.196
1344      PB    4.00
1345      LS       0    69.0
1346      UD   0.900
          *

1347      KK  C209-A
1348      KM  COMBINE RC203 AND 209-A
1349      KM  REFERENCED FROM 2008 MPU
1350      HC       2
          *

1351      KK  210-C
1352      KM  REFERENCED FROM 2008 MPU
1353      BA  12.044
1354      PB    3.84
1355      LS       0    77.0
1356      UD   0.960
          *

1357      KK  C210-C
1358      KM  COMBINE C209-A AND 210-C
1359      KM  REFERENCED FROM 2008 MPU
1360      HC       2
          *

1361      KK  RC210-C
1362      KM  ROUTE C210-C TO C210-A
1363      KM  NATURAL WASH
1364      KM  TRAVEL LENGTH = 5,000
1365      KM  SLOPE = 4.4%
1366      KM  N = 0.040
1367      KM  HYDRAULIC RADIUS = 1.5
1368      KM  VELOCITY = 16.4
1369      KM  REFERENCED FROM 2008 MPU
1370      RM       1   0.085    0.15
          *

1371      KK   210-A
1372      KM  REFERENCED FROM 2008 MPU
1373      BA   2.523
1374      PB    3.58
1375      LS       0    77.0
1376      UD   0.541
          *
1                                   HEC-1 INPUT                                   PAGE 38

LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

1377      KK  C210-A
1378      KM  COMBINE RC210-C AND 210-A
1379      KM  REFERENCED FROM 2008 MPU
1380      HC       2
          *

1381      KK  RC210-A
1382      KM  ROUTE C210-A TO C209-B
1383      KM  NATURAL WASH
1384      KM  TRAVEL LENGTH = 8,000
1385      KM  SLOPE = 3.8%
1386      KM  N = 0.040
1387      KM  HYDRAULIC RADIUS = 1.5
1388      KM  VELOCITY = 15.2
1389      KM  REFERENCED FROM 2008 MPU
1390      RM       2   0.146    0.15
          *

1391      KK   209-B
1392      KM  REFERENCED FROM 2008 MPU
1393      BA   1.622
1394      PB    3.53
1395      LS       0    69.0
1396      UD   0.619
          *

1397      KK  C209-B
1398      KM  COMBINE RC210-A AND 209-B
1399      KM  REFERENCED FROM 2008 MPU
1400      HC       2
          *

1401      KK  RC209-B
1402      KM  ROUTE C209-B TO C213A-1
1403      KM  NATURAL WASH
1404      KM  TRAVEL LENGTH = 20,500
1405      KM  SLOPE = 4.1%
1406      KM  N = 0.040
1407      KM  HYDRAULIC RADIUS = 1.5
1408      KM  VELOCITY = 15.8
1409      KM  REFERENCED FROM 2008 MPU
1410      RM       4    0.36    0.15
          *

1411      KK  213A-1
1412      KM  REFERENCED FROM 2008 MPU
1413      BA   2.970
1414      PB    3.39
1415      LS       0    77.0
1416      UD   0.852
          *
1                                   HEC-1 INPUT                                   PAGE 39

LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

1417      KK  C213A-1
1418      KM  COMBINE RC209-B AND 213A-1
1419      KM  REFERENCED FROM 2008 MPU
1420      HC       2
          *

1421      KK  RC213A-1
1422      KM  ROUTE C213A-1 TO C213A-2
1423      KM  IRON MOUNTAIN
1424      KM  REFERENCED FROM 2008 MPU
1425      RD    4600  0.0326   0.016       0    TRAP       0       50
          *

1426      KK  213A-2
1427      KM  REFERENCED FROM 2008 MPU
1428      BA   0.500
1429      PB    3.28
1430      LS       0    78.9
1431      UD   0.345
          *
```

```
1432          KK  C213A-2
1433          KM  ROUTE RC213A-1 AND 213A-2
1434          KM  IRON MOUNTAIN AND SCOTTIE
1435          KM  REFERENCED FROM 2008 MPU
1436          HC       2
              *

1437          KK  RC213A-2
1438          KM  ROUTE C213A-2 TO C213A-3
1439          KM  IRON MOUNTAIN
1440          KM  REFERENCED FROM 2008 MPU
1441          RD    2600  0.0269   0.016       0    TRAP       0      50
              *

1442          KK  213A-3
1443          KM  REFERENCED FROM 2008 MPU
1444          BA   0.371
1445          PB    3.26
1446          LS       0    79.0
1447          UD   0.319
              *

1448          KK  C213A-3
1449          KM  COMBINE RC213A-2 TO 213A-3
1450          KM  IRON MOUNTAIN AND HURTADO
1451          KM  REFERENCED FROM 2008 MPU
1452          HC       2
              *
1                                        HEC-1 INPUT                                                    PAGE 40

              LINE          ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

1453          KK  RC213A-3
1454          KM  ROUTE C213A-3 TO C213A-4
1455          KM  IRON MOUNTAIN
1456          KM  REFERENCED FROM 2008 MPU
1457          RD    2600  0.0346   0.016       0    TRAP       0      50
              *

1458          KK  213A-4
1459          KM  REFERENCED FROM 2008 MPU
1460          BA   0.251
1461          PB    3.21
1462          LS       0    78.6
1463          UD   0.281
              *

1464          KK  C213A-4
1465          KM  COMBINE RC213A-3 AND 213A-4
1466          KM  IRON MOUNTAIN AND REYMORE
1467          KM  REFERENCED FROM 2008 MPU
1468          HC       2
              *

1469          KK  RC213A-4
1470          KM  ROUTE C213A-4 TO C213A-5
1471          KM  NATURAL WASH
1472          KM  TRAVEL LENGTH = 13,000
1473          KM  SLOPE = 3.5%
1474          KM  N = 0.040
1475          KM  HYDRAULIC RADIUS = 1.5
1476          KM  VELOCITY = 14.6
1477          KM  REFERENCED FROM 2008 MPU
1478          RM       3   0.247    0.15
              *

1479          KK  213A-5
1480          KM  REFERENCED FROM 2008 MPU
1481          BA   2.058
1482          PB    3.06
1483          LS       0    77.0
1484          UD   0.703
              *

1485          KK  C213A-5
1486          KM  COMBINE RC213A-4 AND 213A-5
1487          KM  REFERENCED FROM 2008 MPU
1488          HC       2
              *

1489          KK  RC213A-5
1490          KM  ROUTE C213A-5 TO C213A-10
1491          KM  REFERENCED FROM 2008 MPU
1492          RD    2600  0.0288   0.016       0    TRAP       0      50
              *
1                                        HEC-1 INPUT                                                    PAGE 41

              LINE          ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

1493          KK  213A-10
1494          KM  REFERENCED FROM 2008 MPU
1495          BA   0.252
1496          PB    2.91
1497          LS       0    94.7
1498          UD   0.256
              *

1499          KK  C213A-10
1500          KM  COMBINE RC213A-5 AND 213A-10
1501          KM  REFERENCED FROM 2008 MPU
1502          HC       2
              *

1503          KK  RC13A-10
1504          KM  ROUTE C213A-10 TO C213A-11
1505          KM  REFERENCED FROM 2008 MPU
1506          RD    2600  0.0288   0.016       0    TRAP       0      50
              *

1507          KK  213A-11
1508          KM  REFERENCED FROM 2008 MPU
1509          BA   0.256
1510          PB    2.83
1511          LS       0    95.0
1512          UD   0.250
              *

1513          KK  C213A-11
1514          KM  COMBINE RC13A-10 AND 213A-11
1515          KM  REFERENCED FROM 2008 MPU
1516          HC       2
              *

1517          KK  RC13A-11
1518          KM  ROUTE C213A-11 TO C213B-6
1519          KM  REFERENCED FROM 2008 MPU
1520          RD    2600  0.0231   0.016       0    TRAP       0      50
              *

1521          KK  213B-6
1522          KM  REFERENCED FROM 2008 MPU
1523          BA   0.244
1524          PB    2.78
1525          LS       0    95.0
1526          UD   0.255
```

```
                *
1527            KK  C213B-6
1528            KM  COMBINE RC13A-11 TO 213B-6
1529            KM  REFERENCED FROM 2008 MPU
1530            HC       2
                *
1                                        HEC-1 INPUT                                        PAGE 42

LINE            ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

1531            KK  RC213B-6
1532            KM  ROUTE C213B-6 TO 2C213A-9
1533            KM  REFERENCED FROM 2008 MPU
1534            RD    1100  0.0318   0.016       0    TRAP       0      50
                *
1535            KK  2C213A-9
1536            KM  COMBINE RC213B-6 AND C213A-9
1537            KM  REFERENCED FROM 2008 MPU
1538            HC       2
                *
1539            KK  RC213A-9
1540            KM  ROUTE C213A-9 TO C213B-7
1541            KM  FACILITY = RANCHO/ MOCCASIN
1542            KM  FACILITY ID-MILE = MORC 0070
1543            KM  LINING = CONCRETE
1544            KM  REFERENCED FROM 2008 MPU
1545            RD    3700  0.0080   0.015       0    TRAP      34       0
                *
1546            KK  213B-7
1547            KM  REFERENCED FROM 2008 MPU
1548            BA   0.249
1549            PB    2.77
1550            LS       0    94.5
1551            UD   0.320
                *
1552            KK  C213B-7
1553            KM  COMBINE RC213A-9 AND 231B-7
1554            KM  REFERENCED FROM 2008 MPU
1555            HC       2
                *
1556            KK  213B-1
1557            KM  REFERENCED FROM 2008 MPU
1558            BA   0.261
1559            PB    2.92
1560            LS       0    94.7
1561            UD   0.251
                *
1562            KK  RC213B-1
1563            KM  ROUTE 213B-1 TO C213B-2
1564            KM  REFERENCED FROM 2008 MPU
1565            RD    2600  0.0288   0.016       0    TRAP       0      50
                *
1                                        HEC-1 INPUT                                        PAGE 43

LINE            ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

1566            KK  213B-2
1567            KM  REFERENCED FROM 2008 MPU
1568            BA   0.262
1569            PB    2.87
1570            LS       0    95.0
1571            UD   0.248
                *
1572            KK  C213B-2
1573            KM  COMBINE R213B-1 AND 213B-2
1574            KM  REFERENCED FROM 2008 MPU
1575            HC       2
                *
1576            KK  RC213B-2
1577            KM  ROUTE C213B-2 TO C213B-3
1578            KM  REFERENCED FROM 2008 MPU
1579            RD    2600  0.0269   0.016       0    TRAP       0      50
                *
1580            KK  213B-3
1581            KM  REFERENCED FROM 2008 MPU
1582            BA   0.253
1583            PB    2.82
1584            LS       0    94.9
1585            UD   0.245
                *
1586            KK  C213B-3
1587            KM  ROUTE RC213B-2 AND 213B-3
1588            KM  REFERENCED FROM 2008 MPU
1589            HC       2
                *
1590            KK  RC213B-3
1591            KM  ROUTE C213B-3 TO C213B-4
1592            KM  REFERENCED FROM 2008 MPU
1593            RD    2600  0.0269   0.016       0    TRAP       0      50
                *
1594            KK  213B-4
1595            KM  REFERENCED FROM 2008 MPU
1596            BA   0.255
1597            PB    2.78
1598            LS       0    95.0
1599            UD   0.259
                *
1600            KK  C213B-4
1601            KM  COMBINE RC213B-3 AND 213B-4
1602            KM  REFERENCED FROM 2008 MPU
1603            HC       2
                *
1                                        HEC-1 INPUT                                        PAGE 44

LINE            ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

1604            KK  RC213B-4
1605            KM  ROUTE C213B-4 TO 2C213B-7
1606            KM  REFERENCED FROM 2008 MPU
1607            RD    1100  0.0318  0.0273       0    TRAP       0      50
                *
1608            KK  2C213B-7
1609            KM  COMBINE C213B-7 AND RC213B-4
1610            KM  REFERENCED FROM 2008 MPU
1611            HC       2
                *
1612            KK  RC213B-7
1613            KM  ROUTE C213B-7 TO C213B-5
```

```
1614          KM  FACILITY = RANCHO/ MOCCASIN
1615          KM  FACILITY ID-MILE = MORC 0000
1616          KM  LINING = CONCRETE
1617          KM  REFERENCED FROM 2008 MPU
1618          RD    3700  0.0100   0.015       0    TRAP      34       0
              *

1619          KK  213B-5
1620          KM  REFERENCED FROM 2008 MPU
1621          BA   0.240
1622          PB    2.77
1623          LS       0    94.3
1624          UD   0.294
              *

1625          KK  C213B5
1626          KM  COMBINE RC213B-7 AND 213B-5
1627          KM  REFERENCED FROM 2008 MPU
1628          HC       2
              *

1629          KK    OFFT
1630          BA   .0173
1631          PB    2.77
1632          LS       0    90.0
1633          UD   0.111
              *

1634          KK  SHEEP2
1635          BA   .0627
1636          PB    2.77
1637          LS       0    86.6
1638          UD    .176
              *
1                                        HEC-1 INPUT                                        PAGE 45

LINE          ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

1639          KK  SHEEP3
1640          BA   .0137
1641          PB    2.77
1642          LS       0    86.6
1643          UD    .152
              *

1644          KK   EMLA2
1645          BA   .1368
1646          PB    2.77
1647          LS       0    92.0
1648          UD    .225
              *

1649          KK   DUMMY
1650          HC       5
              *

1651          KK   ENVE1
1652          BA   .0341
1653          PB    2.77
1654          LS       0    77.0
1655          UD    .210
              *

1656          KK    OFFZ
1657          BA   .0523
1658          PB    2.77
1659          LS       0    87.0
1660          UD   0.138
              *

1661          KK   HUAL3
1662          BA   .0037
1663          PB    2.77
1664          LS       0    98.0
1665          UD    .177
              *

1666          KK   SH-MO
1667          KM   TOTAL KYLE CANYON DEVELOPMENT DISCHARGE IN SHEEP MOUNTAIN PKWY @ MOCCASIN
1668          HC       5
              *

1669          KK    SKY3
1670          BA   .0068
1671          PB    2.77
1672          LS       0    98.0
1673          UD    .146
              *
1                                        HEC-1 INPUT                                        PAGE 46

LINE          ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

1674          KK    95-6
1675          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1676          BA   .0104
1677          PB    2.77
1678          LS       0    92.8
1679          UD   0.091
              *

1680          KK    OFFH
1681          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1682          BA   .0074
1683          PB    2.77
1684          LS       0    92.5
1685          UD   0.076
              *

1686          KK   SK-IR
1687          KM   COMBINE SKY3, 95-6, OFFH
1688          HC       3
              *

1689          KK   EML1A
1690          BA   .0293
1691          PB    2.77
1692          LS       0    92.0
1693          UD    .124
              *

1694          KK   IRON2
1695          BA   .0041
1696          PB    2.93
1697          LS       0    98.0
1698          UD    .063
              *

1699          KK  EMLA1B
1700          BA   .0221
1701          PB    2.93
1702          LS       0    94.6
1703          UD    .104
              *

1704          KK     TP2
```

```
1705          BA   .0009
1706          PB    2.93
1707          LS       0    98.0
1708          UD    .079
              *
1                                        HEC-1 INPUT                                        PAGE 47

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1709          KK   IR-TP
1710          KM   COMBINE SK-IR, EML1A, IRON2, EMLA1B, TP2
1711          HC        5
              *

1712          KK     ES1
1713          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1714          BA   .0173
1715          PB    2.77
1716          LS       0    92.7
1717          UD   0.109
              *

1718          KK   IRON3
1719          BA   .0021
1720          PB    2.93
1721          LS       0    98.0
1722          UD    .062
              *

1723          KK   IR-FT
1724          KM   COMBINE IR-TP, ES1, IRON3
1725          HC        3
              *

1726          KK   FTNOR
1727          KM   FLOW SPLIT AT IRON MOUNTAIN/FORT APACHE
1728          KM   DIVERT FLOW EAST IN IRON MOUNTAIN ROAD
1729          KM   DIVERT MAX. SD FLOW + MAX. STREET FLOW (118/98 CFS) LESS THAN NWNS 235/98 CFS
1730          DT  IREAST
1731          DI        0      98     178
1732          DQ        0      98     118
              *

1733          KK  RETD1B
1734          KM   RETRIEVE FLOW FROM VTN CULVERT 1
1735          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1736          DR  DCHD1B
              *

1737          KK  RETD2B
1738          KM   RETRIEVE FLOW FROM VTN CULVERT 2
1739          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1740          DR  DCHD2B
              *

1741          KK    OFF9
1742          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1743          BA   .0424
1744          PB    2.77
1745          LS       0    92.2
1746          UD   0.186
              *
1                                        HEC-1 INPUT                                        PAGE 48

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1747          KK   COFF9
1748          KM   COMBINE OFF9, DCHD1C, DCHD2C
1749          HC        3
              *

1750          KK    OFFS
1751          BA   .0109
1752          PB    2.77
1753          LS       0    90.0
1754          UD   0.082
              *

1755          KK    SKY4
1756          BA   .0095
1757          PB    2.77
1758          LS       0    98.0
1759          UD    .183
              *

1760          KK   LC-SK
1761          KM   TOTAL FLOW AT INTERSECTION OF LOG CABIN AND SKY
1762          KM   FLOW ROUTED EAST IN LOG CABIN
1763          HC        3
              *

1764          KK   EML1B
1765          BA   .0749
1766          PB    2.77
1767          LS       0    92.0
1768          UD    .129
              *

1769          KK  ESCHL1
1770          BA   .0249
1771          PB    2.77
1772          LS       0    83.5
1773          UD    .126
              *

1774          KK   EPRK1
1775          BA   .0123
1776          PB    2.77
1777          LS       0    69.0
1778          UD    .122
              *

1779          KK   STRT6
1780          BA   .0055
1781          PB    2.77
1782          LS       0    98.0
1783          UD    .141
              *
1                                        HEC-1 INPUT                                        PAGE 49

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1784          KK   EML2A
1785          BA   .0665
1786          PB    2.77
1787          LS       0    92.0
1788          UD    .138
              *

1789          KK   DUMMY
1790          HC        5
              *

1791          KK     TP3
```

```
1792          BA   .0068
1793          PB    2.77
1794          LS       0    98.0
1795          UD    .231
              *

1796          KK    TP4A
1797          BA   .0029
1798          PB    2.77
1799          LS       0    98.0
1800          UD    .115
              *

1801          KK    LOG1
1802          BA   .0073
1803          PB    2.77
1804          LS       0    98.0
1805          UD    .088
              *

1806          KK   LC-TP
1807          KM   TOTAL FLOW AT INTERSECTION OF LOG CABIN AND TEE PEE
1808          KM   FLOW ROUTED EAST IN LOG CABIN
1809          HC       5
              *

1810          KK     EL1
1811          BA   .1161
1812          PB    2.77
1813          LS       0    82.0
1814          UD    .184
              *

1815          KK    LOG2
1816          BA   .0042
1817          PB    2.77
1818          LS       0    98.0
1819          UD    .065
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1820          KK   FORT1
1821          BA   .0091
1822          PB    2.77
1823          LS       0    98.0
1824          UD    .238
              *

1825        0 KK   FT-LC
1826          KM   TOTAL FLOW AT INTERSECTION OF FORT APACHE AND LOG CABIN
1827          KM   FLOW ROUTED NORTH IN FORT APACHE
1828          HC       5
              *

1829          KK   RFTLC
1830          KM   DIVERT FLOW SPLIT INTO O'HARE ROAD
1831          DT   OHARE
1832          DI       0     271     642
1833          DQ       0       0      47
              *

1834          KK  R2FTLC
1835          KM   DIVERT FLOW SPLIT INTO LOG CABIN WAY
1836          DT   LOGCAB
1837          DI       0     271     595
1838          DQ       0      73     187
              *

1839          KK   EML2B
1840          BA   .0412
1841          PB    2.77
1842          LS       0    92.0
1843          UD    .120
              *

1844          KK    TP4B
1845          BA   .0036
1846          PB    2.77
1847          LS       0    98.0
1848          UD    .085
              *

1849          KK    EML3
1850          BA   .0575
1851          PB    2.77
1852          LS       0    92.0
1853          UD    .153
              *

1854          KK   STRT7
1855          BA   .0039
1856          PB    2.77
1857          LS       0    98.0
1858          UD    .071
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1859          KK   DUMMY
1860          HC       5
              *

1861          KK    EML4
1862          BA   .0718
1863          PB    2.77
1864          LS       0    92.0
1865          UD    .153
              *

1866          KK   ENVE2
1867          BA   .0144
1868          PB    2.77
1869          LS       0    77.0
1870          UD    .157
              *

1871          KK   FORT2
1872          BA   .0090
1873          PB    2.77
1874          LS       0    98.0
1875          UD    .253
              *

1876          KK   FT-MO
1877          KM   TOTAL KYLE CANYON DEVELOPMENT DISCHARGE IN FORT APACHE @ MOCCASIN
1878          KM   FLOW ROUTED EAST ADJACENT TO MOCCASIN
1879          HC       4
              *

1880          KK    CP43
1881          KM   TOTAL KYLE CANYON DEVELOPMENT DISCHARGE IN MOCCASIN REGIONAL ALIGNMENT
1882          HC       2
```

```
                *
1883            KK   95-7A
1884            KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1885            BA   .0069
1886            PB    2.77
1887            LS       0    94.7
1888            UD   0.073
                *

1889            KK   95-7B
1890            KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1891            BA   .0081
1892            PB    2.77
1893            LS       0    94.7
1894            UD   0.084
                *
1                                          HEC-1 INPUT                                          PAGE 52

LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1895            KK   95-8A
1896            KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1897            BA   .0052
1898            PB    2.77
1899            LS       0    94.7
1900            UD   0.061
                *

1901            KK   95-8B
1902            KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1903            BA   .0031
1904            PB    2.77
1905            LS       0    94.7
1906            UD   0.050
                *

1907            KK  C95-8B
1908            KM   COMBINE 95-7A, 95-7B, 95-8A, 95-8B
1909            HC       4
                *

1910            KK    SKY2
1911            BA   .0074
1912            PB    2.93
1913            LS       0    98.0
1914            UD    .099
                *

1915            KK  EMLA1A
1916            BA   .0135
1917            PB    2.93
1918            LS       0    95.0
1919            UD    .100
                *

1920            KK     TP1
1921            BA   .0009
1922            PB    2.93
1923            LS       0    98.0
1924            UD    .082
                *

1925            KK   BR-TP
1926            KM   TOTAL FLOW AT INTERSECTION OF BRENT AND TEE PEE
1927            KM   FLOW ROUTED EAST IN BRENT
1928            HC       4
                *

1929            KK     ES2
1930            KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1931            BA   .0491
1932            PB    2.77
1933            LS       0    94.7
1934            UD   0.149
                *
1                                          HEC-1 INPUT                                          PAGE 53

LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1935            KK  BRENT1
1936            BA   .0018
1937            PB    2.93
1938            LS       0    98.0
1939            UD    .062
                *

1940            KK    EGC3
1941            BA   .0215
1942            PB    2.93
1943            LS       0    95.0
1944            UD    .091
                *

1945            KK  HORSE5
1946            BA   .0048
1947            PB    2.93
1948            LS       0    98.0
1949            UD    .063
                *

1950            KK    CP44
1951            KM   TOTAL KYLE CANYON DEVELOPMENT DISCHARGE AT INTERSECTION OF BRENT LANE AND FOR
1952            KM   PROPOSED FLOW SPLIT INTO EXISTING STORM DRAIN SOUTH
1953            HC       5
                *

1954            KK   SOUTH
1955            KM   FLOW SPLIT AT BRENT/FT. APACHE
1956            KM   DIVERT STORM DRAIN DESIGN FLOW 65 CFS SOUTH IN FORT APACHE
1957            DT   BRENT
1958            DI       0     118     228
1959            DQ       0      68     178
                *

1960            KK    SKY1
1961            BA   .0074
1962            PB    2.93
1963            LS       0    98.1
1964            UD    .084
                *

1965            KK  HORSE4
1966            BA   .0035
1967            PB    2.93
1968            LS       0    98.0
1969            UD    .050
                *
1                                          HEC-1 INPUT                                          PAGE 54

LINE            ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1970            KK    EGC1
1971            BA   .0076
```

```
1972            PB    2.93
1973            LS       0    95.0
1974            UD    .070
                *

1975            KK    EGC2
1976            BA   .0121
1977            PB    2.93
1978            LS       0    95.0
1979            UD    .095
                *

1980            KK   DUMMY
1981            HC       5
                *

1982            KK   95-9B
1983            KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1984            BA   .0133
1985            PB    2.77
1986            LS       0    94.7
1987            UD   0.136
                *

1988            KK    CP45
1989            KM   TOTAL KYLE CANYON DISCHARGE AT INTERSECTION OF FORT APACHE AND HORSE
1990            KM   PROPOSED FLOW SPLIT AT INTERSECTION
1991            HC       2
                *

1992            KK   HORSE
1993            KM   FLOW SPLIT AT HORSE/RACEL
1994            KM   DIVERT NWNS 101 CFS SOUTH IN FORT APACHE/RACEL
1995            DT   RACEL
1996            DI       0     101    1000
1997            DQ       0     101     101
                *
1998            ZZ
```

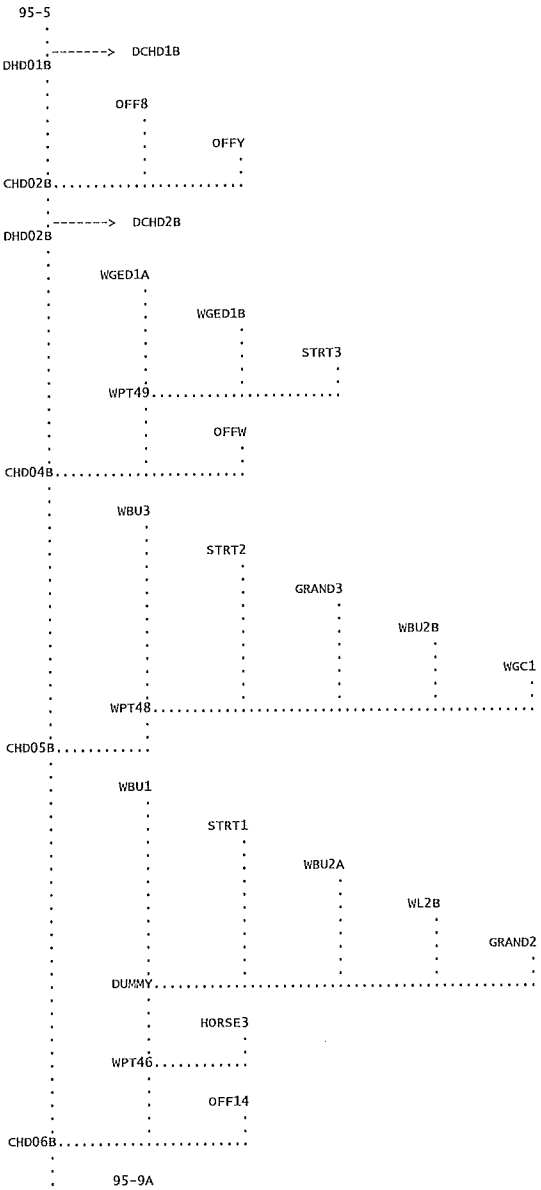
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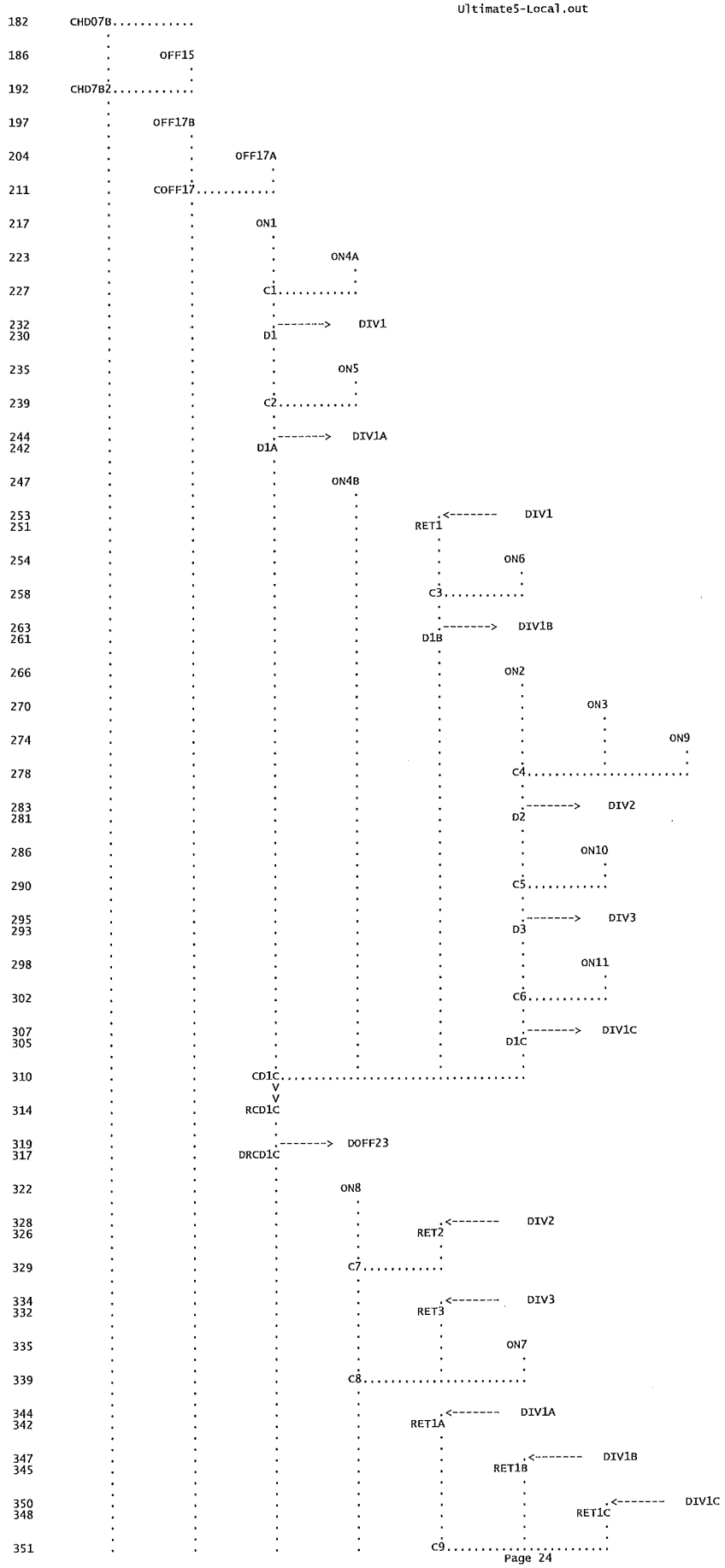
SCHEMATIC DIAGRAM OF STREAM NETWORK

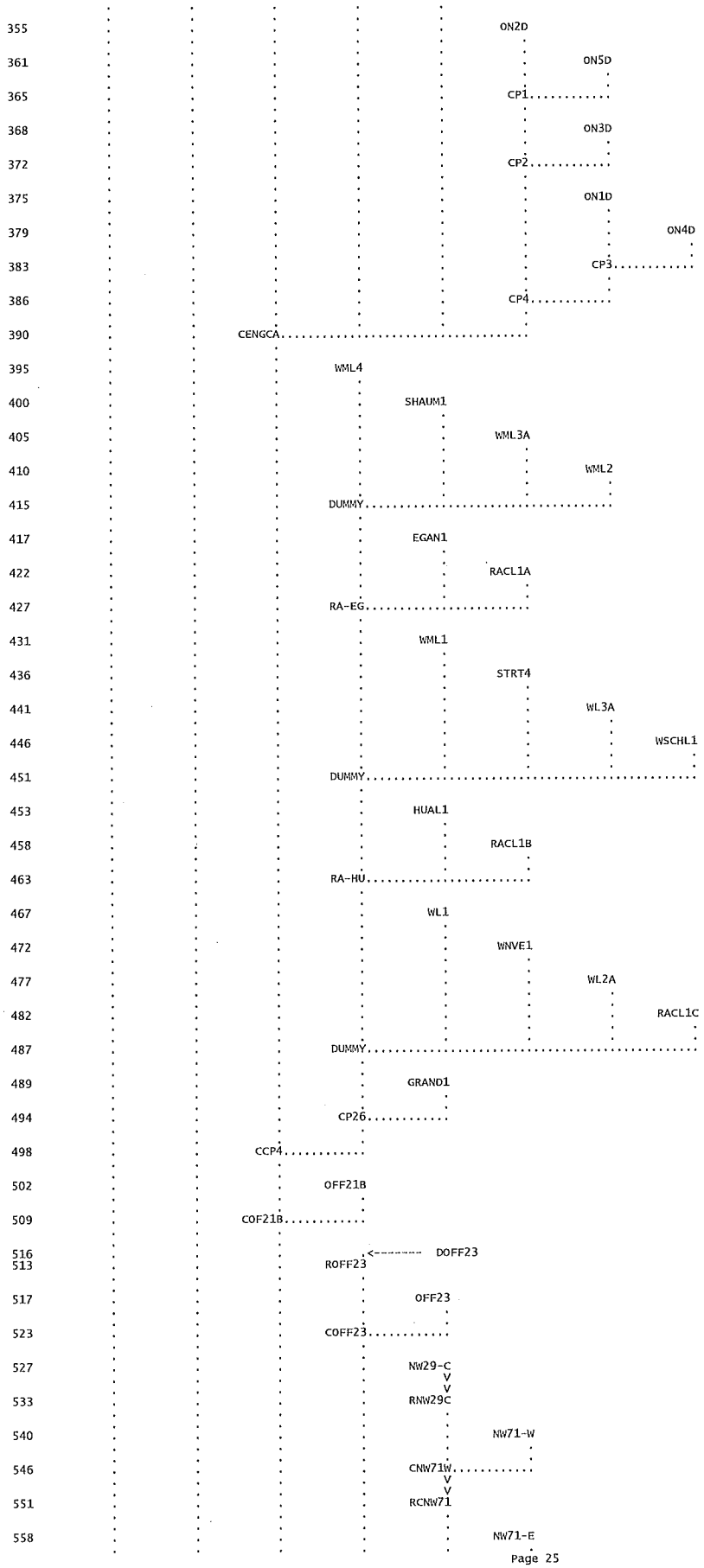
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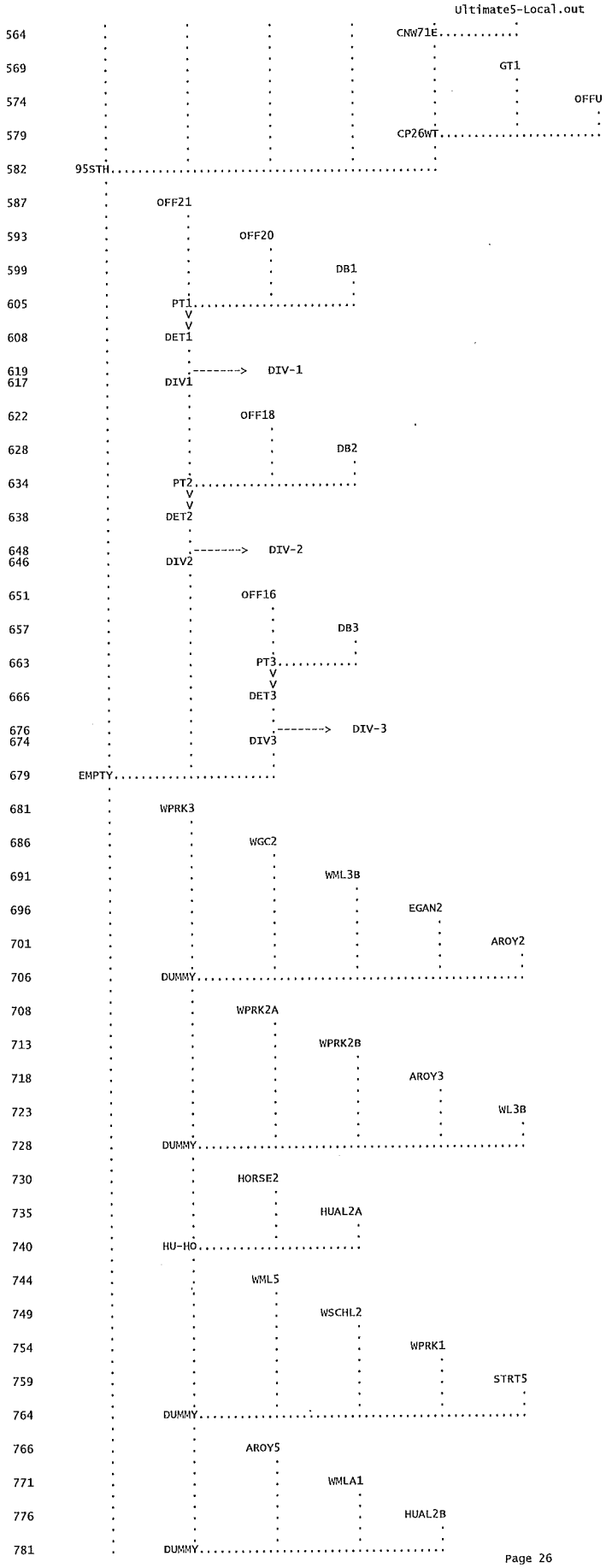
(V) ROUTING (---->) DIVERSION OR PUMP FLOW

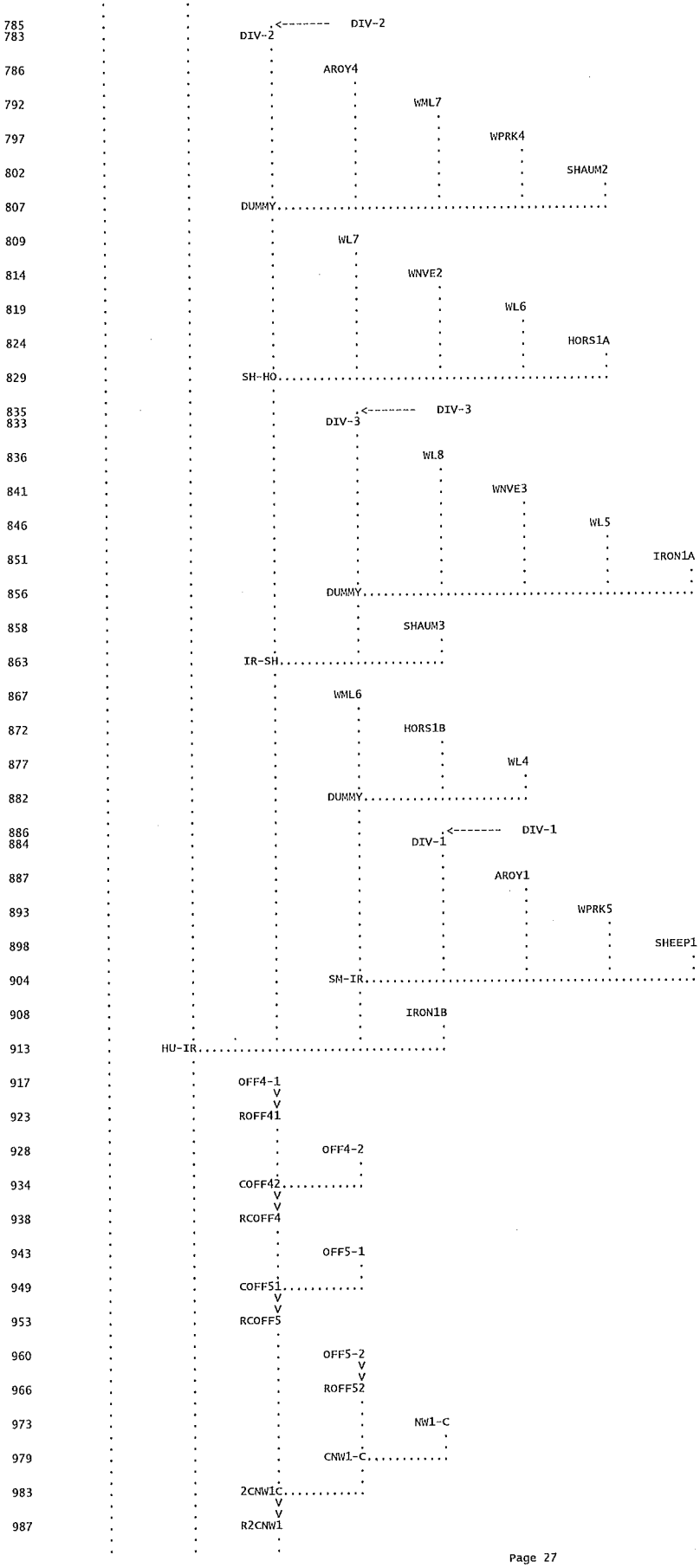
(.) CONNECTOR (<----) RETURN OF DIVERTED OR PUMPED FLOW

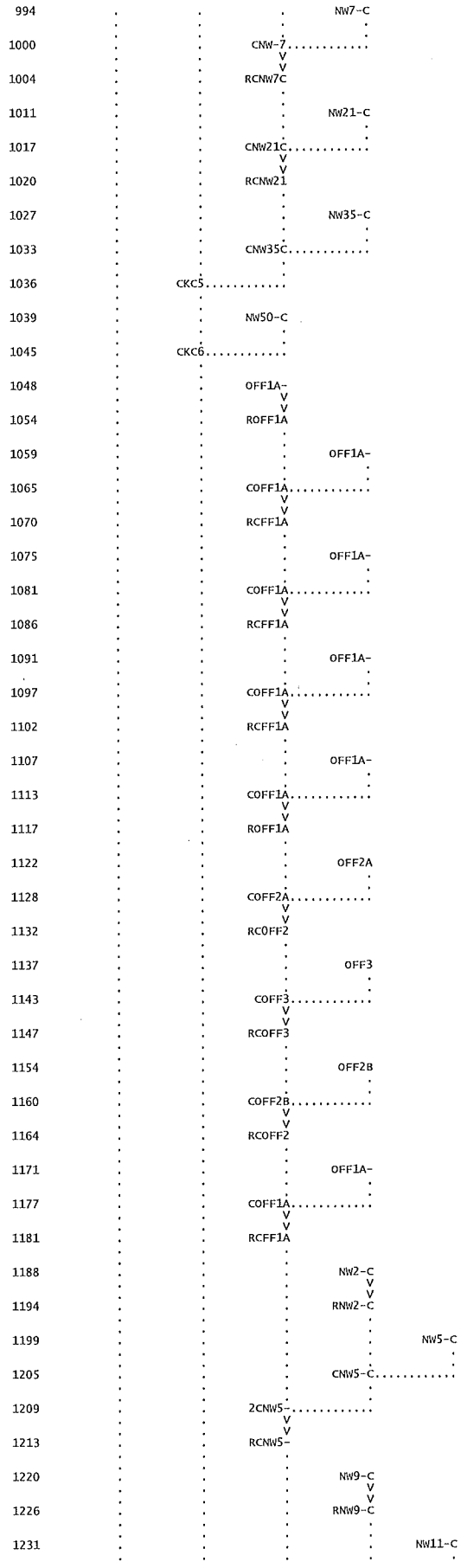


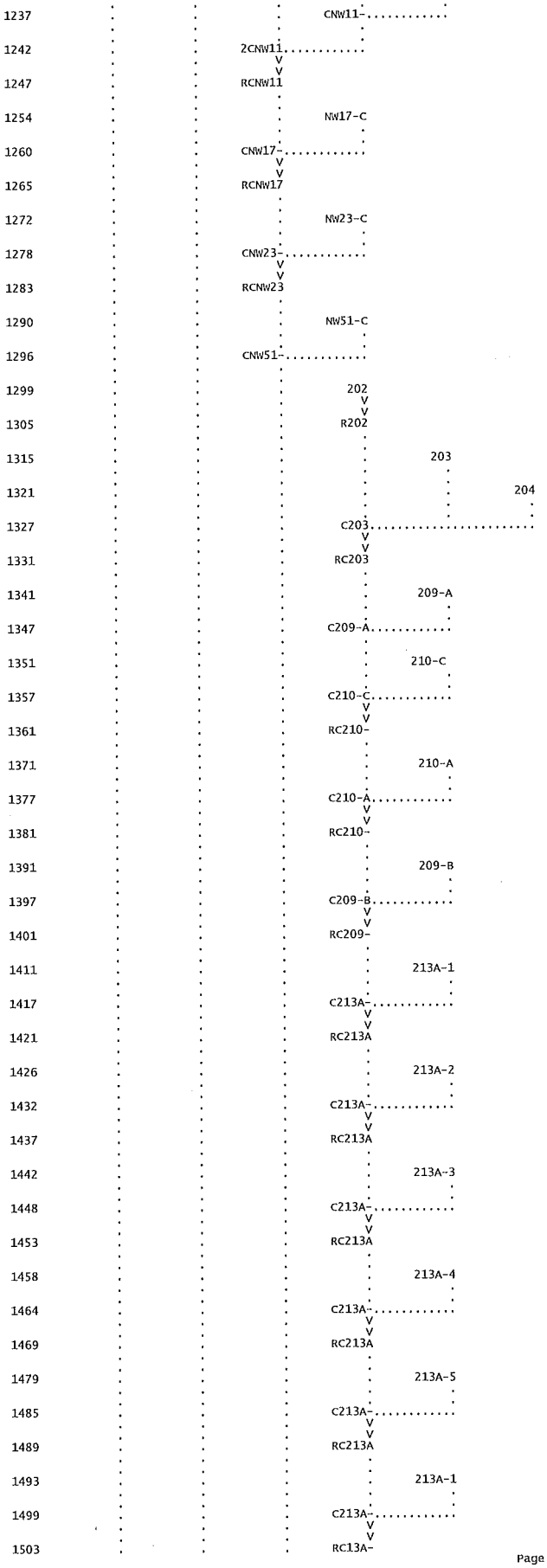

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186 OFF15
192 CHD7B2
197 OFF17B
204 OFF17A
211 COFF17
217 ON1
223 ON4A
227 C1
232 DIV1
230 D1
235 ON5
239 C2
244 DIV1A
242 D1A
247 ON4B
253 DIV1
251 RET1
254 ON6
258 C3
263 DIV1B
261 D1B
266 ON2
270 ON3
274 ON9
278 C4
283 DIV2
281 D2
286 ON10
290 C5
295 DIV3
293 D3
298 ON11
302 C6
307 DIV1C
305 D1C
310 CD1C
314 RCD1C
319 DOFF23
317 DRCD1C
322 ON8
328 DIV2
326 RET2
329 C7
334 DIV3
332 RET3
335 ON7
339 C8
344 DIV1A
342 RET1A
347 DIV1B
345 RET1B
350 DIV1C
348 RET1C
351 C9

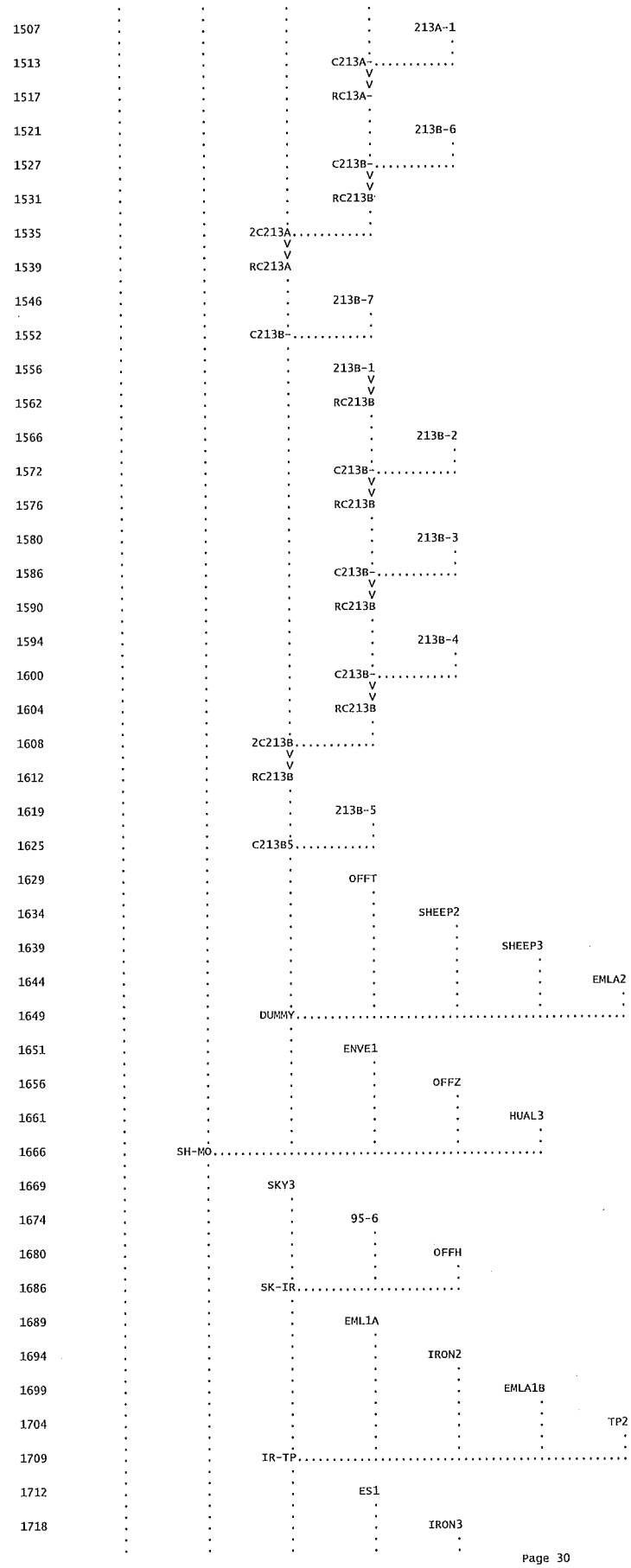

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551
558
ON2D
ON5D
CP1
ON3D
CP2
ON1D
ON4D
CP3
CP4
CENGCA
WML4
SHAUM1
WML3A
WML2
DUMMY
EGAN1
RACL1A
RA-EG
WML1
STRT4
WL3A
WSCHL1
DUMMY
HUAL1
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RA-HU
WL1
WNVE1
WL2A
RACL1C
DUMMY
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COF21B
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V
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NW71-E

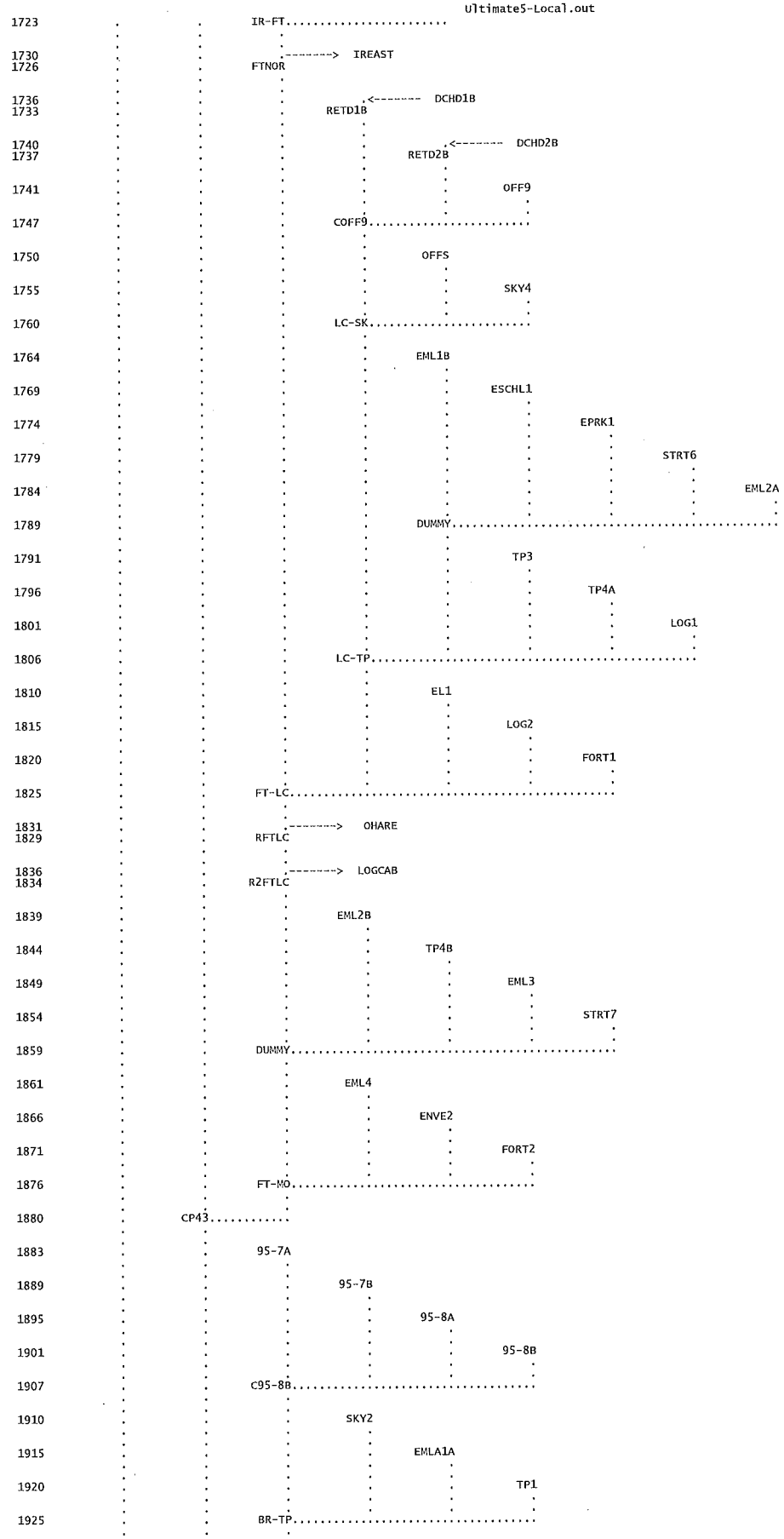

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DB1
605
PT1
608
DET1
619
617
DIV1
DIV-1
622
OFF18
628
DB2
634
PT2
638
DET2
648
646
DIV2
DIV-2
651
OFF16
657
DB3
663
PT3
666
DET3
676
674
DIV3
DIV-3
679
EMPTY
681
WPRK3
686
WGC2
691
WML3B
696
EGAN2
701
AROY2
706
DUMMY
708
WPRK2A
713
WPRK2B
718
AROY3
723
WL3B
728
DUMMY
730
HORSE2
735
HUAL2A
740
HU-HO
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WML5
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WSCHL2
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HUAL2B
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DUMMY

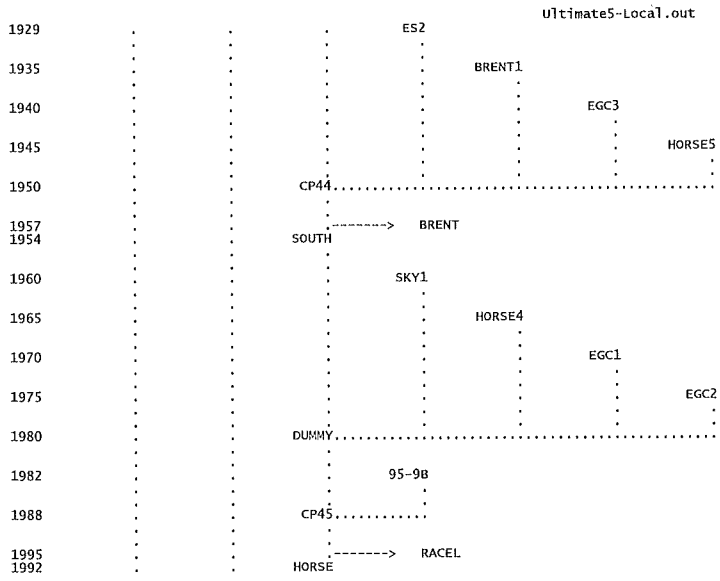

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792 WML7
797 WPRK4
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807 DUMMY
809 WL7
814 WNVE2
819 WL6
824 HORS1A
829 SH-HO
835
833 DIV-3
<-------- DIV-3
836 WL8
841 WNVE3
846 WL5
851 IRON1A
856 DUMMY
858 SHAUM3
863 IR-SH
867 WML6
872 HORS1B
877 WL4
882 DUMMY
886
884 DIV-1
<------- DIV-1
887 AROY1
893 WPRK5
898 SHEEP1
904 SM-IR
908 IRON1B
913 HU-IR
917 OFF4-1
923 ROFF41
928 OFF4-2
934 COFF42
938 RCOFF4
943 OFF5-1
949 COFF51
953 RCOFF5
960 OFF5-2
966 ROFF52
973 NW1-C
979 CNW1-C
983 2CNW1C
987 R2CNW1


994
NW7-C
1000
CNW-7
1004
RCNW7C
1011
NW21-C
1017
CNW21C
1020
RCNW21
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NW35-C
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CNW35C
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CKC5
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NW50-C
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CKC6
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EMLA2
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DUMMY
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ENVE1
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HUAL3
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SH-MO
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SKY3
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IRON3


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FTNOR
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RETD2B
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COFF9
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EPRK1
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LOG2
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RFTLC
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EML3
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DUMMY
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EML4
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ENVE2
1871
FORT2
1876
FT-MO
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1895
95-8A
1901
95-8B
1907
C95-8B
1910
SKY2
1915
EMLA1A
1920
TP1
1925
BR-TP



(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

```
1**********************************************
*                                            *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)        *
*             JUN  1998                      *
*           VERSION 4.1                      *
*                                            *
*  RUN DATE   08DEC11  TIME  14:43:36        *
*                                            *
**********************************************
```

```
**********************************************
*                                            *
*    U.S. ARMY CORPS OF ENGINEERS            *
*    HYDROLOGIC ENGINEERING CENTER           *
*          609 SECOND STREET                 *
*       DAVIS, CALIFORNIA 95616              *
*           (916) 756-1104                   *
*                                            *
**********************************************
```

SLATER HANIFAN GROUP
CARWIN ADVISORS
KYLE CANYON
MASTER DRAINAGE STUDY - CLV ADDENDUM #3
ULTIMATE DRAINAGE CONDITION - LOCAL ONSITE

RETURN PERIOD ------- 100 & 10-YEAR
DISTRIBUTION -------- 6-HOUR SDN5
PROJECT NO. --------- WCP0902.003
FILENAME ------------ Ultimate5-Local.H1
DATE ---------------- 12/08/11
MODELED BY ---------- SMJ/KCR

SIX HOUR DEPTH-AREA REDUCTION FACTORS

DRAINAGE AREA (MI^2)	DARF
12-20	0.86
20-30	0.79
30-50	0.74
50-100	0.68

```
 22 IO          OUTPUT CONTROL VARIABLES
                     IPRNT          5  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL          0.  HYDROGRAPH PLOT SCALE

    IT          HYDROGRAPH TIME DATA
                     NMIN           5  MINUTES IN COMPUTATION INTERVAL
                     IDATE      1   0  STARTING DATE
                     ITIME        0000  STARTING TIME
                       NQ         300  NUMBER OF HYDROGRAPH ORDINATES
                    NDDATE      2   0  ENDING DATE
                    NDTIME       0055  ENDING TIME
                     ICENT         19  CENTURY MARK

                   COMPUTATION INTERVAL      .08 HOURS
                       TOTAL TIME BASE   24.92 HOURS

         ENGLISH UNITS
              DRAINAGE AREA         SQUARE MILES
              PRECIPITATION DEPTH   INCHES
              LENGTH, ELEVATION     FEET
              FLOW                  CUBIC FEET PER SECOND
              STORAGE VOLUME        ACRE-FEET
              SURFACE AREA          ACRES
              TEMPERATURE           DEGREES FAHRENHEIT

    JP          MULTI-PLAN OPTION
                     NPLAN          1  NUMBER OF PLANS

    JR          MULTI-RATIO OPTION
                    RATIOS OF PRECIPITATION
                     .86       .79       .74       .68
```

*** ***

```
          ****************
          *              *
608 KK    *     DET1     *
          *              *
          ****************

611 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          1  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL          0.  HYDROGRAPH PLOT SCALE

              HYDROGRAPH ROUTING DATA

612 RS          STORAGE ROUTING
                     NSTPS          1  NUMBER OF SUBREACHES
                      ITYP       ELEV  TYPE OF INITIAL CONDITION
                     RSVRIC     29.50  INITIAL CONDITION
                          X       .00 WORKING R AND D COEFFICIENT

613 SA               AREA          .0        .3       3.1       5.2       6.6
```

614 SE	ELEVATION	29.50	30.00	32.00	34.00	41.60
615 SQ	DISCHARGE	0.	24.	85.	127.	158.
616 SE	ELEVATION	29.50	31.00	34.00	38.00	42.00

***

COMPUTED STORAGE-ELEVATION DATA

STORAGE	.00	.04	2.91	11.17	56.05
ELEVATION	29.50	30.00	32.00	34.00	41.60

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	.04	.76	2.91	11.17	33.42	56.05	58.72
OUTFLOW	.00	7.87	23.62	44.14	85.18	127.22	155.35	158.48
ELEVATION	29.50	30.00	31.00	32.00	34.00	38.00	41.60	42.00

HYDROGRAPH AT STATION DET1
PLAN 1, RATIO = .86

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	29.5
1		0005	2	0.	.0	29.5
1		0010	3	0.	.0	29.5
1		0015	4	0.	.0	29.5
1		0020	5	0.	.0	29.5
1		0025	6	1.	.0	29.6
1		0030	7	3.	.0	29.7
1		0035	8	5.	.0	29.8
1		0040	9	6.	.0	29.9
1		0045	10	8.	.0	30.0
1		0050	11	8.	.1	30.0
1		0055	12	9.	.1	30.1
1		0100	13	10.	.1	30.1
1		0105	14	10.	.2	30.2
1		0110	15	11.	.2	30.2
1		0115	16	12.	.2	30.3
1		0120	17	13.	.3	30.3
1		0125	18	13.	.3	30.3
1		0130	19	14.	.3	30.4
1		0135	20	16.	.4	30.5
1		0140	21	17.	.5	30.6
1		0145	22	20.	.6	30.7
1		0150	23	22.	.7	30.9
1		0155	24	24.	.8	31.0
1		0200	25	25.	1.0	31.1
1		0205	26	27.	1.1	31.2
1		0210	27	29.	1.3	31.2
1		0215	28	30.	1.5	31.3
1		0220	29	32.	1.7	31.4
1		0225	30	34.	1.8	31.5
1		0230	31	35.	2.0	31.6
1		0235	32	36.	2.1	31.6
1		0240	33	37.	2.1	31.6
1		0245	34	37.	2.2	31.7
1		0250	35	38.	2.3	31.7
1		0255	36	39.	2.3	31.7
1		0300	37	40.	2.5	31.8
1		0305	38	42.	2.7	31.9
1		0310	39	45.	3.1	32.0
1		0315	40	48.	3.7	32.2
1		0320	41	52.	4.4	32.4
1		0325	42	57.	5.5	32.6
1		0330	43	64.	6.9	33.0
1		0335	44	73.	8.7	33.4
1		0340	45	84.	10.9	33.9
1		0345	46	89.	13.3	34.4
1		0350	47	94.	15.8	34.8
1		0355	48	98.	18.2	35.3
1		0400	49	103.	20.4	35.7
1		0405	50	106.	22.3	36.0
1		0410	51	109.	23.9	36.3
1		0415	52	112.	25.1	36.5
1		0420	53	113.	26.1	36.7
1		0425	54	115.	26.9	36.8
1		0430	55	116.	27.5	36.9
1		0435	56	117.	27.9	37.0
1		0440	57	118.	28.4	37.1
1		0445	58	119.	28.9	37.2
1		0450	59	120.	29.5	37.3
1		0455	60	121.	30.3	37.4
1		0500	61	123.	31.3	37.6
1		0505	62	125.	32.2	37.8
1		0510	63	127.	33.1	37.9
1		0515	64	128.	33.8	38.1
1		0520	65	128.	34.3	38.1
1		0525	66	129.	34.6	38.2
1		0530	67	129.	34.7	38.2
1		0535	68	129.	34.6	38.2
1		0540	69	128.	34.3	38.1
1		0545	70	128.	34.0	38.1
1		0550	71	127.	33.6	38.0
1		0555	72	127.	33.1	37.9
1		0600	73	126.	32.6	37.8
1		0605	74	125.	32.0	37.7
1		0610	75	123.	31.4	37.6
1		0615	76	122.	30.8	37.5
1		0620	77	121.	30.1	37.4
1		0625	78	120.	29.4	37.3
1		0630	79	118.	28.7	37.2
1		0635	80	117.	28.0	37.0
1		0640	81	116.	27.3	36.9
1		0645	82	114.	26.5	36.8
1		0650	83	113.	25.8	36.6
1		0655	84	111.	25.0	36.5
1		0700	85	110.	24.3	36.4
1		0705	86	109.	23.6	36.2
1		0710	87	107.	22.8	36.1
1		0715	88	106.	22.1	36.0
1		0720	89	104.	21.4	35.8
1		0725	90	103.	20.7	35.7
1		0730	91	102.	20.0	35.6
1		0735	92	101.	19.3	35.5
1		0740	93	99.	18.6	35.3
1		0745	94	98.	17.9	35.2
1		0750	95	97.	17.2	35.1
1		0755	96	95.	16.6	35.0
1		0800	97	94.	15.9	34.9
1		0805	98	93.	15.3	34.7
1		0810	99	92.	14.7	34.6
1		0815	100	91.	14.0	34.5
1		0820	101	89.	13.4	34.4
1		0825	102	88.	12.8	34.3
1		0830	103	87.	12.2	34.2
1		0835	104	86.	11.6	34.1
1		0840	105	84.	11.0	34.0
1		0845	106	82.	10.4	33.8
1		0850	107	79.	9.9	33.7
1		0855	108	76.	9.3	33.6
1		0900	109	74.	8.8	33.4
1		0905	110	71.	8.3	33.3
1		0910	111	69.	7.9	33.2
1		0915	112	66.	7.4	33.1
1		0920	113	64.	6.9	33.0
1		0925	114	62.	6.5	32.9
1		0930	115	60.	6.1	32.8
1		0935	116	58.	5.7	32.7
1		0940	117	56.	5.3	32.6
1		0945	118	54.	4.9	32.5
1		0950	119	52.	4.5	32.4
1		0955	120	50.	4.2	32.3
1		1000	121	49.	3.8	32.2
1		1005	122	47.	3.5	32.1
1		1010	123	46.	3.2	32.1
1		1015	124	44.	2.9	32.0
1		1020	125	41.	2.6	31.9
1		1025	126	39.	2.3	31.7
1		1030	127	36.	2.1	31.6
1		1035	128	34.	1.8	31.5
1		1040	129	32.	1.6	31.4
1		1045	130	30.	1.4	31.3
1		1050	131	28.	1.2	31.2
1		1055	132	26.	1.0	31.1
1		1100	133	24.	.8	31.0
1		1105	134	22.	.7	30.9
1		1110	135	19.	.5	30.7
1		1115	136	16.	.4	30.5
1		1120	137	14.	.3	30.4
1		1125	138	12.	.2	30.3
1		1130	139	10.	.1	30.1
1		1135	140	9.	.1	30.1
1		1140	141	6.	.0	29.9
1		1145	142	1.	.0	29.6
1		1150	143	0.	.0	29.5
1		1155	144	0.	.0	29.5
1		1200	145	0.	.0	29.5
1		1205	146	0.	.0	29.5
1		1210	147	0.	.0	29.5
1		1215	148	0.	.0	29.5
1		1220	149	0.	.0	29.5
1		1225	150	0.	.0	29.5
1		1230	151	0.	.0	29.5
1		1235	152	0.	.0	29.5
1		1240	153	0.	.0	29.5
1		1245	154	0.	.0	29.5
1		1250	155	0.	.0	29.5
1		1255	156	0.	.0	29.5
1		1300	157	0.	.0	29.5
1		1305	158	0.	.0	29.5
1		1310	159	0.	.0	29.5
1		1315	160	0.	.0	29.5
1		1320	161	0.	.0	29.5
1		1325	162	0.	.0	29.5
1		1330	163	0.	.0	29.5
1		1335	164	0.	.0	29.5
1		1340	165	0.	.0	29.5
1		1345	166	0.	.0	29.5
1		1350	167	0.	.0	29.5
1		1355	168	0.	.0	29.5
1		1400	169	0.	.0	29.5
1		1405	170	0.	.0	29.5
1		1410	171	0.	.0	29.5
1		1415	172	0.	.0	29.5
1		1420	173	0.	.0	29.5
1		1425	174	0.	.0	29.5
1		1430	175	0.	.0	29.5
1		1435	176	0.	.0	29.5
1		1440	177	0.	.0	29.5
1		1445	178	0.	.0	29.5
1		1450	179	0.	.0	29.5
1		1455	180	0.	.0	29.5
1		1500	181	0.	.0	29.5
1		1505	182	0.	.0	29.5
1		1510	183	0.	.0	29.5
1		1515	184	0.	.0	29.5
1		1520	185	0.	.0	29.5
1		1525	186	0.	.0	29.5
1		1530	187	0.	.0	29.5
1		1535	188	0.	.0	29.5
1		1540	189	0.	.0	29.5
1		1545	190	0.	.0	29.5
1		1550	191	0.	.0	29.5
1		1555	192	0.	.0	29.5
1		1600	193	0.	.0	29.5
1		1605	194	0.	.0	29.5
1		1610	195	0.	.0	29.5
1		1615	196	0.	.0	29.5
1		1620	197	0.	.0	29.5
1		1625	198	0.	.0	29.5
1		1630	199	0.	.0	29.5
1		1635	200	0.	.0	29.5
1		1640	201	0.	.0	29.5
1		1645	202	0.	.0	29.5
1		1650	203	0.	.0	29.5
1		1655	204	0.	.0	29.5
1		1700	205	0.	.0	29.5
1		1705	206	0.	.0	29.5
1		1710	207	0.	.0	29.5
1		1715	208	0.	.0	29.5
1		1720	209	0.	.0	29.5
1		1725	210	0.	.0	29.5
1		1730	211	0.	.0	29.5
1		1735	212	0.	.0	29.5
1		1740	213	0.	.0	29.5
1		1745	214	0.	.0	29.5
1		1750	215	0.	.0	29.5
1		1755	216	0.	.0	29.5
1		1800	217	0.	.0	29.5
1		1805	218	0.	.0	29.5
1		1810	219	0.	.0	29.5
1		1815	220	0.	.0	29.5
1		1820	221	0.	.0	29.5
1		1825	222	0.	.0	29.5
1		1830	223	0.	.0	29.5
1		1835	224	0.	.0	29.5
1		1840	225	0.	.0	29.5
1		1845	226	0.	.0	29.5
1		1850	227	0.	.0	29.5
1		1855	228	0.	.0	29.5
1		1900	229	0.	.0	29.5
1		1905	230	0.	.0	29.5
1		1910	231	0.	.0	29.5
1		1915	232	0.	.0	29.5
1		1920	233	0.	.0	29.5
1		1925	234	0.	.0	29.5
1		1930	235	0.	.0	29.5
1		1935	236	0.	.0	29.5
1		1940	237	0.	.0	29.5
1		1945	238	0.	.0	29.5
1		1950	239	0.	.0	29.5
1		1955	240	0.	.0	29.5
1		2000	241	0.	.0	29.5
1		2005	242	0.	.0	29.5
1		2010	243	0.	.0	29.5
1		2015	244	0.	.0	29.5
1		2020	245	0.	.0	29.5
1		2025	246	0.	.0	29.5
1		2030	247	0.	.0	29.5
1		2035	248	0.	.0	29.5
1		2040	249	0.	.0	29.5
1		2045	250	0.	.0	29.5
1		2050	251	0.	.0	29.5
1		2055	252	0.	.0	29.5
1		2100	253	0.	.0	29.5
1		2105	254	0.	.0	29.5
1		2110	255	0.	.0	29.5
1		2115	256	0.	.0	29.5
1		2120	257	0.	.0	29.5
1		2125	258	0.	.0	29.5
1		2130	259	0.	.0	29.5
1		2135	260	0.	.0	29.5
1		2140	261	0.	.0	29.5
1		2145	262	0.	.0	29.5
1		2150	263	0.	.0	29.5
1		2155	264	0.	.0	29.5
1		2200	265	0.	.0	29.5
1		2205	266	0.	.0	29.5
1		2210	267	0.	.0	29.5
1		2215	268	0.	.0	29.5
1		2220	269	0.	.0	29.5
1		2225	270	0.	.0	29.5
1		2230	271	0.	.0	29.5
1		2235	272	0.	.0	29.5
1		2240	273	0.	.0	29.5
1		2245	274	0.	.0	29.5
1		2250	275	0.	.0	29.5
1		2255	276	0.	.0	29.5
1		2300	277	0.	.0	29.5
1		2305	278	0.	.0	29.5
1		2310	279	0.	.0	29.5
1		2315	280	0.	.0	29.5
1		2320	281	0.	.0	29.5
1		2325	282	0.	.0	29.5
1		2330	283	0.	.0	29.5
1		2335	284	0.	.0	29.5
1		2340	285	0.	.0	29.5
1		2345	286	0.	.0	29.5
1		2350	287	0.	.0	29.5
1		2355	288	0.	.0	29.5
1		0000	289	0.	.0	29.5
1		0005	290	0.	.0	29.5
1		0010	291	0.	.0	29.5
1		0015	292	0.	.0	29.5
1		0020	293	0.	.0	29.5
1		0025	294	0.	.0	29.5
1		0030	295	0.	.0	29.5
1		0035	296	0.	.0	29.5
1		0040	297	0.	.0	29.5
1		0045	298	0.	.0	29.5
1		0050	299	0.	.0	29.5
1		0055	300	0.	.0	29.5

PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW 6-HR (CFS)	24-HR	72-HR	24.92-HR
129.	5.50	104.	32.	31.	31.

(INCHES)	1.156	1.436	1.436	1.436
(AC-FT)	52.	64.	64.	64.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
35.	5.50	22.	6.	6.	6.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
38.20	5.50	35.91	31.47	31.40	31.40

CUMULATIVE AREA = .84 SQ MI

HYDROGRAPH AT STATION DET1
PLAN 1, RATIO = .79

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	29.5	1		0820	101	78.	9.7	33.6	1		1640	201	0.	.0	29.5
1		0005	2	0.	.0	29.5	1		0825	102	75.	9.2	33.5	1		1645	202	0.	.0	29.5
1		0010	3	0.	.0	29.5	1		0830	103	73.	8.7	33.4	1		1650	203	0.	.0	29.5
1		0015	4	0.	.0	29.5	1		0835	104	70.	8.2	33.3	1		1655	204	0.	.0	29.5
1		0020	5	0.	.0	29.5	1		0840	105	68.	7.7	33.2	1		1700	205	0.	.0	29.5
1		0025	6	1.	.0	29.6	1		0845	106	66.	7.2	33.0	1		1705	206	0.	.0	29.5
1		0030	7	2.	.0	29.6	1		0850	107	63.	6.8	32.9	1		1710	207	0.	.0	29.5
1		0035	8	3.	.0	29.7	1		0855	108	61.	6.4	32.8	1		1715	208	0.	.0	29.5
1		0040	9	4.	.0	29.8	1		0900	109	59.	6.0	32.7	1		1720	209	0.	.0	29.5
1		0045	10	5.	.0	29.8	1		0905	110	57.	5.6	32.6	1		1725	210	0.	.0	29.5
1		0050	11	6.	.0	29.9	1		0910	111	55.	5.2	32.5	1		1730	211	0.	.0	29.5
1		0055	12	8.	.0	30.0	1		0915	112	53.	4.8	32.5	1		1735	212	0.	.0	29.5
1		0100	13	8.	.1	30.0	1		0920	113	52.	4.4	32.4	1		1740	213	0.	.0	29.5
1		0105	14	8.	.1	30.0	1		0925	114	50.	4.1	32.3	1		1745	214	0.	.0	29.5
1		0110	15	9.	.1	30.0	1		0930	115	48.	3.7	32.2	1		1750	215	0.	.0	29.5
1		0115	16	9.	.1	30.1	1		0935	116	47.	3.4	32.1	1		1755	216	0.	.0	29.5
1		0120	17	9.	.1	30.1	1		0940	117	45.	3.1	32.0	1		1800	217	0.	.0	29.5
1		0125	18	10.	.1	30.1	1		0945	118	43.	2.8	31.9	1		1805	218	0.	.0	29.5
1		0130	19	11.	.2	30.2	1		0950	119	40.	2.5	31.8	1		1810	219	0.	.0	29.5
1		0135	20	12.	.2	30.3	1		0955	120	38.	2.2	31.7	1		1815	220	0.	.0	29.5
1		0140	21	13.	.3	30.3	1		1000	121	35.	2.0	31.6	1		1820	221	0.	.0	29.5
1		0145	22	15.	.4	30.4	1		1005	122	33.	1.8	31.5	1		1825	222	0.	.0	29.5
1		0150	23	17.	.5	30.6	1		1010	123	31.	1.5	31.4	1		1830	223	0.	.0	29.5
1		0155	24	19.	.6	30.7	1		1015	124	29.	1.3	31.3	1		1835	224	0.	.0	29.5
1		0200	25	22.	.7	30.9	1		1020	125	27.	1.1	31.2	1		1840	225	0.	.0	29.5
1		0205	26	24.	.8	31.0	1		1025	126	25.	.9	31.1	1		1845	226	0.	.0	29.5
1		0210	27	25.	.9	31.1	1		1030	127	24.	.8	31.0	1		1850	227	0.	.0	29.5
1		0215	28	27.	1.1	31.1	1		1035	128	21.	.6	30.8	1		1855	228	0.	.0	29.5
1		0220	29	28.	1.2	31.2	1		1040	129	18.	.5	30.6	1		1900	229	0.	.0	29.5
1		0225	30	29.	1.3	31.3	1		1045	130	15.	.4	30.5	1		1905	230	0.	.0	29.5
1		0230	31	30.	1.4	31.3	1		1050	131	13.	.3	30.3	1		1910	231	0.	.0	29.5
1		0235	32	31.	1.5	31.4	1		1055	132	11.	.2	30.2	1		1915	232	0.	.0	29.5
1		0240	33	31.	1.6	31.4	1		1100	133	10.	.1	30.1	1		1920	233	0.	.0	29.5
1		0245	34	32.	1.6	31.4	1		1105	134	8.	.1	30.0	1		1925	234	0.	.0	29.5
1		0250	35	32.	1.7	31.4	1		1110	135	4.	.0	29.7	1		1930	235	0.	.0	29.5
1		0255	36	33.	1.7	31.5	1		1115	136	1.	.0	29.6	1		1935	236	0.	.0	29.5
1		0300	37	34.	1.9	31.5	1		1120	137	0.	.0	29.5	1		1940	237	0.	.0	29.5
1		0305	38	36.	2.1	31.6	1		1125	138	0.	.0	29.5	1		1945	238	0.	.0	29.5
1		0310	39	39.	2.4	31.8	1		1130	139	0.	.0	29.5	1		1950	239	0.	.0	29.5
1		0315	40	43.	2.8	32.0	1		1135	140	0.	.0	29.5	1		1955	240	0.	.0	29.5
1		0320	41	47.	3.5	32.1	1		1140	141	0.	.0	29.5	1		2000	241	0.	.0	29.5
1		0325	42	52.	4.4	32.4	1		1145	142	0.	.0	29.5	1		2005	242	0.	.0	29.5
1		0330	43	58.	5.6	32.7	1		1150	143	0.	.0	29.5	1		2010	243	0.	.0	29.5
1		0335	44	65.	7.2	33.0	1		1155	144	0.	.0	29.5	1		2015	244	0.	.0	29.5
1		0340	45	75.	9.1	33.5	1		1200	145	0.	.0	29.5	1		2020	245	0.	.0	29.5
1		0345	46	85.	11.2	34.0	1		1205	146	0.	.0	29.5	1		2025	246	0.	.0	29.5
1		0350	47	89.	13.3	34.4	1		1210	147	0.	.0	29.5	1		2030	247	0.	.0	29.5
1		0355	48	93.	15.4	34.8	1		1215	148	0.	.0	29.5	1		2035	248	0.	.0	29.5
1		0400	49	97.	17.2	35.1	1		1220	149	0.	.0	29.5	1		2040	249	0.	.0	29.5
1		0405	50	100.	18.9	35.4	1		1225	150	0.	.0	29.5	1		2045	250	0.	.0	29.5
1		0410	51	102.	20.3	35.6	1		1230	151	0.	.0	29.5	1		2050	251	0.	.0	29.5
1		0415	52	104.	21.3	35.8	1		1235	152	0.	.0	29.5	1		2055	252	0.	.0	29.5
1		0420	53	106.	22.2	36.0	1		1240	153	0.	.0	29.5	1		2100	253	0.	.0	29.5
1		0425	54	107.	22.8	36.1	1		1245	154	0.	.0	29.5	1		2105	254	0.	.0	29.5
1		0430	55	108.	23.3	36.2	1		1250	155	0.	.0	29.5	1		2110	255	0.	.0	29.5
1		0435	56	109.	23.7	36.2	1		1255	156	0.	.0	29.5	1		2115	256	0.	.0	29.5
1		0440	57	109.	24.0	36.3	1		1300	157	0.	.0	29.5	1		2120	257	0.	.0	29.5
1		0445	58	110.	24.5	36.4	1		1305	158	0.	.0	29.5	1		2125	258	0.	.0	29.5
1		0450	59	111.	25.0	36.5	1		1310	159	0.	.0	29.5	1		2130	259	0.	.0	29.5
1		0455	60	113.	25.7	36.6	1		1315	160	0.	.0	29.5	1		2135	260	0.	.0	29.5
1		0500	61	114.	26.5	36.8	1		1320	161	0.	.0	29.5	1		2140	261	0.	.0	29.5
1		0505	62	116.	27.3	36.9	1		1325	162	0.	.0	29.5	1		2145	262	0.	.0	29.5
1		0510	63	117.	28.1	37.0	1		1330	163	0.	.0	29.5	1		2150	263	0.	.0	29.5
1		0515	64	118.	28.7	37.2	1		1335	164	0.	.0	29.5	1		2155	264	0.	.0	29.5
1		0520	65	119.	29.1	37.2	1		1340	165	0.	.0	29.5	1		2200	265	0.	.0	29.5
1		0525	66	120.	29.4	37.3	1		1345	166	0.	.0	29.5	1		2205	266	0.	.0	29.5
1		0530	67	120.	29.4	37.3	1		1350	167	0.	.0	29.5	1		2210	267	0.	.0	29.5
1		0535	68	119.	29.3	37.3	1		1355	168	0.	.0	29.5	1		2215	268	0.	.0	29.5
1		0540	69	119.	29.0	37.2	1		1400	169	0.	.0	29.5	1		2220	269	0.	.0	29.5
1		0545	70	118.	28.7	37.2	1		1405	170	0.	.0	29.5	1		2225	270	0.	.0	29.5
1		0550	71	118.	28.3	37.1	1		1410	171	0.	.0	29.5	1		2230	271	0.	.0	29.5
1		0555	72	117.	27.8	37.0	1		1415	172	0.	.0	29.5	1		2235	272	0.	.0	29.5
1		0600	73	116.	27.3	36.9	1		1420	173	0.	.0	29.5	1		2240	273	0.	.0	29.5
1		0605	74	115.	26.8	36.8	1		1425	174	0.	.0	29.5	1		2245	274	0.	.0	29.5
1		0610	75	114.	26.3	36.7	1		1430	175	0.	.0	29.5	1		2250	275	0.	.0	29.5
1		0615	76	113.	25.7	36.6	1		1435	176	0.	.0	29.5	1		2255	276	0.	.0	29.5
1		0620	77	111.	25.1	36.5	1		1440	177	0.	.0	29.5	1		2300	277	0.	.0	29.5
1		0625	78	110.	24.4	36.4	1		1445	178	0.	.0	29.5	1		2305	278	0.	.0	29.5
1		0630	79	109.	23.8	36.3	1		1450	179	0.	.0	29.5	1		2310	279	0.	.0	29.5
1		0635	80	108.	23.1	36.1	1		1455	180	0.	.0	29.5	1		2315	280	0.	.0	29.5
1		0640	81	106.	22.4	36.0	1		1500	181	0.	.0	29.5	1		2320	281	0.	.0	29.5
1		0645	82	105.	21.8	35.9	1		1505	182	0.	.0	29.5	1		2325	282	0.	.0	29.5
1		0650	83	104.	21.1	35.8	1		1510	183	0.	.0	29.5	1		2330	283	0.	.0	29.5
1		0655	84	103.	20.4	35.7	1		1515	184	0.	.0	29.5	1		2335	284	0.	.0	29.5
1		0700	85	101.	19.7	35.5	1		1520	185	0.	.0	29.5	1		2340	285	0.	.0	29.5
1		0705	86	100.	19.0	35.4	1		1525	186	0.	.0	29.5	1		2345	286	0.	.0	29.5
1		0710	87	99.	18.3	35.3	1		1530	187	0.	.0	29.5	1		2350	287	0.	.0	29.5
1		0715	88	97.	17.7	35.2	1		1535	188	0.	.0	29.5	1		2355	288	0.	.0	29.5
1		0720	89	96.	17.0	35.1	1		1540	189	0.	.0	29.5	2		0000	289	0.	.0	29.5
1		0725	90	95.	16.4	34.9	1		1545	190	0.	.0	29.5	2		0005	290	0.	.0	29.5
1		0730	91	94.	15.7	34.8	1		1550	191	0.	.0	29.5	2		0010	291	0.	.0	29.5
1		0735	92	93.	15.1	34.7	1		1555	192	0.	.0	29.5	2		0015	292	0.	.0	29.5
1		0740	93	91.	14.4	34.6	1		1600	193	0.	.0	29.5	2		0020	293	0.	.0	29.5
1		0745	94	90.	13.8	34.5	1		1605	194	0.	.0	29.5	2		0025	294	0.	.0	29.5
1		0750	95	89.	13.2	34.4	1		1610	195	0.	.0	29.5	2		0030	295	0.	.0	29.5
1		0755	96	88.	12.6	34.3	1		1615	196	0.	.0	29.5	2		0035	296	0.	.0	29.5
1		0800	97	87.	12.0	34.1	1		1620	197	0.	.0	29.5	2		0040	297	0.	.0	29.5
1		0805	98	86.	11.4	34.0	1		1625	198	0.	.0	29.5	2		0045	298	0.	.0	29.5
1		0810	99	83.	10.8	33.9	1		1630	199	0.	.0	29.5	2		0050	299	0.	.0	29.5
1		0815	100	81.	10.3	33.8	1		1635	200	0.	.0	29.5	2		0055	300	0.	.0	29.5

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
120.	5.50	95.	28.	27.	27.
	(CFS)				
	(INCHES)	1.051	1.256	1.256	1.256
	(AC-FT)	47.	56.	56.	56.

PEAK STORAGE TIME MAXIMUM AVERAGE STORAGE

	6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT) (HR)				
29. 5.50	18.	5.	5.	5.

PEAK STAGE TIME	MAXIMUM AVERAGE STAGE			
	6-HR	24-HR	72-HR	24.92-HR
+ (FEET) (HR)				
37.28 5.50	35.15	31.19	31.13	31.13

CUMULATIVE AREA = .84 SQ MI

HYDROGRAPH AT STATION DET1
PLAN 1, RATIO = .74

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	29.5	1		0820	101	66.	7.4	33.1	1		1640	201	0.	.0	29.5
1		0005	2	0.	.0	29.5	1		0825	102	64.	6.9	33.0	1		1645	202	0.	.0	29.5
1		0010	3	0.	.0	29.5	1		0830	103	62.	6.5	32.9	1		1650	203	0.	.0	29.5
1		0015	4	0.	.0	29.5	1		0835	104	60.	6.1	32.8	1		1655	204	0.	.0	29.5
1		0020	5	0.	.0	29.5	1		0840	105	58.	5.7	32.7	1		1700	205	0.	.0	29.5
1		0025	6	1.	.0	29.5	1		0845	106	56.	5.3	32.6	1		1705	206	0.	.0	29.5
1		0030	7	2.	.0	29.6	1		0850	107	54.	4.9	32.5	1		1710	207	0.	.0	29.5
1		0035	8	2.	.0	29.7	1		0855	108	52.	4.5	32.4	1		1715	208	0.	.0	29.5
1		0040	9	3.	.0	29.7	1		0900	109	50.	4.2	32.3	1		1720	209	0.	.0	29.5
1		0045	10	4.	.0	29.7	1		0905	110	49.	3.8	32.2	1		1725	210	0.	.0	29.5
1		0050	11	4.	.0	29.8	1		0910	111	47.	3.5	32.1	1		1730	211	0.	.0	29.5
1		0055	12	5.	.0	29.8	1		0915	112	45.	3.2	32.1	1		1735	212	0.	.0	29.5
1		0100	13	6.	.0	29.9	1		0920	113	44.	2.9	32.0	1		1740	213	0.	.0	29.5
1		0105	14	7.	.0	29.9	1		0925	114	41.	2.6	31.8	1		1745	214	0.	.0	29.5
1		0110	15	7.	.0	30.0	1		0930	115	38.	2.3	31.7	1		1750	215	0.	.0	29.5
1		0115	16	8.	.0	30.0	1		0935	116	36.	2.1	31.6	1		1755	216	0.	.0	29.5
1		0120	17	8.	.1	30.0	1		0940	117	34.	1.8	31.5	1		1800	217	0.	.0	29.5
1		0125	18	8.	.1	30.0	1		0945	118	32.	1.6	31.4	1		1805	218	0.	.0	29.5
1		0130	19	9.	.1	30.1	1		0950	119	30.	1.4	31.3	1		1810	219	0.	.0	29.5
1		0135	20	10.	.1	30.1	1		0955	120	28.	1.2	31.2	1		1815	220	0.	.0	29.5
1		0140	21	11.	.2	30.2	1		1000	121	26.	1.0	31.1	1		1820	221	0.	.0	29.5
1		0145	22	12.	.2	30.3	1		1005	122	24.	.8	31.0	1		1825	222	0.	.0	29.5
1		0150	23	14.	.3	30.4	1		1010	123	22.	.7	30.9	1		1830	223	0.	.0	29.5
1		0155	24	16.	.4	30.5	1		1015	124	19.	.5	30.7	1		1835	224	0.	.0	29.5
1		0200	25	18.	.5	30.6	1		1020	125	16.	.4	30.5	1		1840	225	0.	.0	29.5
1		0205	26	20.	.6	30.8	1		1025	126	14.	.3	30.4	1		1845	226	0.	.0	29.5
1		0210	27	23.	.7	30.9	1		1030	127	12.	.2	30.2	1		1850	227	0.	.0	29.5
1		0215	28	24.	.8	31.0	1		1035	128	10.	.1	30.1	1		1855	228	0.	.0	29.5
1		0220	29	25.	.9	31.1	1		1040	129	9.	.1	30.1	1		1900	229	0.	.0	29.5
1		0225	30	26.	1.0	31.1	1		1045	130	6.	.0	29.9	1		1905	230	0.	.0	29.5
1		0230	31	27.	1.1	31.2	1		1050	131	1.	.0	29.6	1		1910	231	0.	.0	29.5
1		0235	32	28.	1.2	31.2	1		1055	132	0.	.0	29.5	1		1915	232	0.	.0	29.5
1		0240	33	28.	1.2	31.2	1		1100	133	0.	.0	29.5	1		1920	233	0.	.0	29.5
1		0245	34	28.	1.2	31.2	1		1105	134	0.	.0	29.5	1		1925	234	0.	.0	29.5
1		0250	35	29.	1.3	31.2	1		1110	135	0.	.0	29.5	1		1930	235	0.	.0	29.5
1		0255	36	29.	1.3	31.3	1		1115	136	0.	.0	29.5	1		1935	236	0.	.0	29.5
1		0300	37	30.	1.4	31.3	1		1120	137	0.	.0	29.5	1		1940	237	0.	.0	29.5
1		0305	38	32.	1.6	31.4	1		1125	138	0.	.0	29.5	1		1945	238	0.	.0	29.5
1		0310	39	35.	1.9	31.5	1		1130	139	0.	.0	29.5	1		1950	239	0.	.0	29.5
1		0315	40	38.	2.3	31.7	1		1135	140	0.	.0	29.5	1		1955	240	0.	.0	29.5
1		0320	41	44.	2.9	32.0	1		1140	141	0.	.0	29.5	1		2000	241	0.	.0	29.5
1		0325	42	48.	3.7	32.2	1		1145	142	0.	.0	29.5	1		2005	242	0.	.0	29.5
1		0330	43	53.	4.7	32.4	1		1150	143	0.	.0	29.5	1		2010	243	0.	.0	29.5
1		0335	44	60.	6.1	32.8	1		1155	144	0.	.0	29.5	1		2015	244	0.	.0	29.5
1		0340	45	69.	7.8	33.2	1		1200	145	0.	.0	29.5	1		2020	245	0.	.0	29.5
1		0345	46	78.	9.7	33.6	1		1205	146	0.	.0	29.5	1		2025	246	0.	.0	29.5
1		0350	47	86.	11.6	34.1	1		1210	147	0.	.0	29.5	1		2030	247	0.	.0	29.5
1		0355	48	89.	13.4	34.4	1		1215	148	0.	.0	29.5	1		2035	248	0.	.0	29.5
1		0400	49	93.	15.1	34.7	1		1220	149	0.	.0	29.5	1		2040	249	0.	.0	29.5
1		0405	50	95.	16.6	35.0	1		1225	150	0.	.0	29.5	1		2045	250	0.	.0	29.5
1		0410	51	98.	17.8	35.2	1		1230	151	0.	.0	29.5	1		2050	251	0.	.0	29.5
1		0415	52	99.	18.7	35.4	1		1235	152	0.	.0	29.5	1		2055	252	0.	.0	29.5
1		0420	53	101.	19.5	35.5	1		1240	153	0.	.0	29.5	1		2100	253	0.	.0	29.5
1		0425	54	102.	20.0	35.6	1		1245	154	0.	.0	29.5	1		2105	254	0.	.0	29.5
1		0430	55	103.	20.4	35.7	1		1250	155	0.	.0	29.5	1		2110	255	0.	.0	29.5
1		0435	56	103.	20.7	35.7	1		1255	156	0.	.0	29.5	1		2115	256	0.	.0	29.5
1		0440	57	104.	21.0	35.8	1		1300	157	0.	.0	29.5	1		2120	257	0.	.0	29.5
1		0445	58	105.	21.4	35.8	1		1305	158	0.	.0	29.5	1		2125	258	0.	.0	29.5
1		0450	59	105.	21.9	35.9	1		1310	159	0.	.0	29.5	1		2130	259	0.	.0	29.5
1		0455	60	107.	22.5	36.0	1		1315	160	0.	.0	29.5	1		2135	260	0.	.0	29.5
1		0500	61	108.	23.2	36.2	1		1320	161	0.	.0	29.5	1		2140	261	0.	.0	29.5
1		0505	62	109.	23.9	36.3	1		1325	162	0.	.0	29.5	1		2145	262	0.	.0	29.5
1		0510	63	111.	24.6	36.4	1		1330	163	0.	.0	29.5	1		2150	263	0.	.0	29.5
1		0515	64	112.	25.1	36.5	1		1335	164	0.	.0	29.5	1		2155	264	0.	.0	29.5
1		0520	65	112.	25.5	36.6	1		1340	165	0.	.0	29.5	1		2200	265	0.	.0	29.5
1		0525	66	113.	25.7	36.6	1		1345	166	0.	.0	29.5	1		2205	266	0.	.0	29.5
1		0530	67	113.	25.7	36.6	1		1350	167	0.	.0	29.5	1		2210	267	0.	.0	29.5
1		0535	68	112.	25.6	36.6	1		1355	168	0.	.0	29.5	1		2215	268	0.	.0	29.5
1		0540	69	112.	25.4	36.5	1		1400	169	0.	.0	29.5	1		2220	269	0.	.0	29.5
1		0545	70	111.	25.0	36.5	1		1405	170	0.	.0	29.5	1		2225	270	0.	.0	29.5
1		0550	71	111.	24.6	36.4	1		1410	171	0.	.0	29.5	1		2230	271	0.	.0	29.5
1		0555	72	110.	24.2	36.3	1		1415	172	0.	.0	29.5	1		2235	272	0.	.0	29.5
1		0600	73	109.	23.7	36.3	1		1420	173	0.	.0	29.5	1		2240	273	0.	.0	29.5
1		0605	74	108.	23.2	36.2	1		1425	174	0.	.0	29.5	1		2245	274	0.	.0	29.5
1		0610	75	107.	22.7	36.1	1		1430	175	0.	.0	29.5	1		2250	275	0.	.0	29.5
1		0615	76	106.	22.1	36.0	1		1435	176	0.	.0	29.5	1		2255	276	0.	.0	29.5
1		0620	77	105.	21.6	35.9	1		1440	177	0.	.0	29.5	1		2300	277	0.	.0	29.5
1		0625	78	104.	21.0	35.8	1		1445	178	0.	.0	29.5	1		2305	278	0.	.0	29.5
1		0630	79	103.	20.3	35.7	1		1450	179	0.	.0	29.5	1		2310	279	0.	.0	29.5
1		0635	80	101.	19.7	35.5	1		1455	180	0.	.0	29.5	1		2315	280	0.	.0	29.5
1		0640	81	100.	19.1	35.4	1		1500	181	0.	.0	29.5	1		2320	281	0.	.0	29.5
1		0645	82	99.	18.4	35.3	1		1505	182	0.	.0	29.5	1		2325	282	0.	.0	29.5
1		0650	83	98.	17.8	35.2	1		1510	183	0.	.0	29.5	1		2330	283	0.	.0	29.5
1		0655	84	96.	17.1	35.1	1		1515	184	0.	.0	29.5	1		2335	284	0.	.0	29.5
1		0700	85	95.	16.5	35.0	1		1520	185	0.	.0	29.5	1		2340	285	0.	.0	29.5
1		0705	86	94.	15.9	34.8	1		1525	186	0.	.0	29.5	1		2345	286	0.	.0	29.5
1		0710	87	93.	15.2	34.7	1		1530	187	0.	.0	29.5	1		2350	287	0.	.0	29.5
1		0715	88	92.	14.6	34.6	1		1535	188	0.	.0	29.5	1		2355	288	0.	.0	29.5
1		0720	89	90.	14.0	34.5	1		1540	189	0.	.0	29.5	2		0000	289	0.	.0	29.5
1		0725	90	89.	13.4	34.4	1		1545	190	0.	.0	29.5	2		0005	290	0.	.0	29.5
1		0730	91	88.	12.8	34.3	1		1550	191	0.	.0	29.5	2		0010	291	0.	.0	29.5
1		0735	92	87.	12.2	34.2	1		1555	192	0.	.0	29.5	2		0015	292	0.	.0	29.5
1		0740	93	86.	11.6	34.1	1		1600	193	0.	.0	29.5	2		0020	293	0.	.0	29.5
1		0745	94	84.	11.0	34.0	1		1605	194	0.	.0	29.5	2		0025	294	0.	.0	29.5
1		0750	95	81.	10.4	33.8	1		1610	195	0.	.0	29.5	2		0030	295	0.	.0	29.5
1		0755	96	79.	9.9	33.7	1		1615	196	0.	.0	29.5	2		0035	296	0.	.0	29.5
1		0800	97	76.	9.3	33.6	1		1620	197	0.	.0	29.5	2		0040	297	0.	.0	29.5
1		0805	98	73.	8.8	33.4	1		1625	198	0.	.0	29.5	2		0045	298	0.	.0	29.5
1		0810	99	71.	8.3	33.3	1		1630	199	0.	.0	29.5	2		0050	299	0.	.0	29.5
1		0815	100	69.	7.8	33.2	1		1635	200	0.	.0	29.5	2		0055	300	0.	.0	29.5

PEAK FLOW TIME		MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS) (HR)	(CFS)				
113. 5.50		88.	25.	25.	25.
	(INCHES)	.974	1.131	1.131	1.131
	(AC-FT)	44.	51.	51.	51.

PEAK STORAGE TIME		MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT) (HR)					
26. 5.50		15.	4.	4.	4.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
36.62	5.50	34.62	31.00	30.94	30.94

CUMULATIVE AREA = .84 SQ MI

HYDROGRAPH AT STATION DET1
PLAN 1, RATIO = .68

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	29.5
1		0005	2	0.	.0	29.5
1		0010	3	0.	.0	29.5
1		0015	4	0.	.0	29.5
1		0020	5	0.	.0	29.5
1		0025	6	1.	.0	29.5
1		0030	7	1.	.0	29.6
1		0035	8	2.	.0	29.6
1		0040	9	2.	.0	29.6
1		0045	10	2.	.0	29.6
1		0050	11	2.	.0	29.7
1		0055	12	3.	.0	29.7
1		0100	13	3.	.0	29.7
1		0105	14	4.	.0	29.8
1		0110	15	4.	.0	29.8
1		0115	16	5.	.0	29.8
1		0120	17	6.	.0	29.9
1		0125	18	7.	.0	29.9
1		0130	19	8.	.0	30.0
1		0135	20	8.	.1	30.0
1		0140	21	9.	.1	30.1
1		0145	22	10.	.1	30.1
1		0150	23	11.	.2	30.2
1		0155	24	13.	.3	30.3
1		0200	25	14.	.3	30.4
1		0205	26	16.	.4	30.5
1		0210	27	18.	.5	30.6
1		0215	28	20.	.6	30.8
1		0220	29	22.	.7	30.9
1		0225	30	23.	.7	31.0
1		0230	31	24.	.8	31.0
1		0235	32	24.	.8	31.0
1		0240	33	24.	.8	31.0
1		0245	34	25.	.9	31.0
1		0250	35	25.	.9	31.1
1		0255	36	25.	.9	31.1
1		0300	37	26.	1.0	31.1
1		0305	38	27.	1.2	31.2
1		0310	39	30.	1.4	31.3
1		0315	40	33.	1.7	31.5
1		0320	41	37.	2.2	31.7
1		0325	42	44.	2.9	32.0
1		0330	43	48.	3.8	32.2
1		0335	44	54.	5.0	32.5
1		0340	45	62.	6.4	32.9
1		0345	46	70.	8.0	33.2
1		0350	47	78.	9.7	33.6
1		0355	48	85.	11.3	34.0
1		0400	49	88.	12.7	34.3
1		0405	50	90.	13.9	34.5
1		0410	51	92.	14.9	34.7
1		0415	52	94.	15.7	34.8
1		0420	53	95.	16.3	34.9
1		0425	54	96.	16.8	35.0
1		0430	55	96.	17.1	35.1
1		0435	56	97.	17.3	35.1
1		0440	57	97.	17.5	35.1
1		0445	58	98.	17.8	35.2
1		0450	59	99.	18.2	35.3
1		0455	60	99.	18.7	35.4
1		0500	61	101.	19.3	35.5
1		0505	62	102.	19.9	35.6
1		0510	63	103.	20.5	35.7
1		0515	64	104.	21.0	35.8
1		0520	65	104.	21.3	35.8
1		0525	66	105.	21.4	35.8
1		0530	67	105.	21.4	35.8
1		0535	68	104.	21.3	35.8
1		0540	69	104.	21.0	35.8
1		0545	70	103.	20.7	35.7
1		0550	71	102.	20.3	35.6
1		0555	72	102.	19.9	35.6
1		0600	73	101.	19.5	35.5
1		0605	74	100.	19.0	35.4
1		0610	75	99.	18.5	35.3
1		0615	76	98.	18.0	35.2
1		0620	77	97.	17.4	35.1
1		0625	78	96.	16.9	35.0
1		0630	79	95.	16.3	34.9
1		0635	80	94.	15.7	34.8
1		0640	81	93.	15.1	34.7
1		0645	82	92.	14.5	34.6
1		0650	83	90.	13.9	34.5
1		0655	84	89.	13.3	34.4
1		0700	85	88.	12.7	34.3
1		0705	86	87.	12.2	34.2
1		0710	87	86.	11.6	34.1
1		0715	88	84.	11.0	34.0
1		0720	89	81.	10.4	33.8
1		0725	90	79.	9.9	33.7
1		0730	91	76.	9.3	33.6
1		0735	92	74.	8.8	33.4
1		0740	93	71.	8.3	33.3
1		0745	94	69.	7.8	33.2
1		0750	95	66.	7.4	33.1
1		0755	96	64.	6.9	33.0
1		0800	97	62.	6.5	32.9
1		0805	98	60.	6.1	32.8
1		0810	99	58.	5.7	32.7
1		0815	100	56.	5.3	32.6
1		0820	101	54.	4.9	32.5
1		0825	102	52.	4.5	32.4
1		0830	103	50.	4.2	32.3
1		0835	104	49.	3.8	32.2
1		0840	105	47.	3.5	32.1
1		0845	106	46.	3.2	32.1
1		0850	107	44.	2.9	32.0
1		0855	108	41.	2.6	31.9
1		0900	109	39.	2.3	31.7
1		0905	110	36.	2.1	31.6
1		0910	111	34.	1.8	31.5
1		0915	112	32.	1.6	31.4
1		0920	113	30.	1.4	31.3
1		0925	114	28.	1.2	31.2
1		0930	115	26.	1.0	31.1
1		0935	116	24.	.8	31.0
1		0940	117	22.	.7	30.9
1		0945	118	19.	.5	30.7
1		0950	119	16.	.4	30.5
1		0955	120	14.	.3	30.4
1		1000	121	12.	.2	30.3
1		1005	122	10.	.1	30.1
1		1010	123	9.	.1	30.1
1		1015	124	6.	.0	29.9
1		1020	125	1.	.0	29.6
1		1025	126	0.	.0	29.5
1		1030	127	0.	.0	29.5
1		1035	128	0.	.0	29.5
1		1040	129	0.	.0	29.5
1		1045	130	0.	.0	29.5
1		1050	131	0.	.0	29.5
1		1055	132	0.	.0	29.5
1		1100	133	0.	.0	29.5
1		1105	134	0.	.0	29.5
1		1110	135	0.	.0	29.5
1		1115	136	0.	.0	29.5
1		1120	137	0.	.0	29.5
1		1125	138	0.	.0	29.5
1		1130	139	0.	.0	29.5
1		1135	140	0.	.0	29.5
1		1140	141	0.	.0	29.5
1		1145	142	0.	.0	29.5
1		1150	143	0.	.0	29.5
1		1155	144	0.	.0	29.5
1		1200	145	0.	.0	29.5
1		1205	146	0.	.0	29.5
1		1210	147	0.	.0	29.5
1		1215	148	0.	.0	29.5
1		1220	149	0.	.0	29.5
1		1225	150	0.	.0	29.5
1		1230	151	0.	.0	29.5
1		1235	152	0.	.0	29.5
1		1240	153	0.	.0	29.5
1		1245	154	0.	.0	29.5
1		1250	155	0.	.0	29.5
1		1255	156	0.	.0	29.5
1		1300	157	0.	.0	29.5
1		1305	158	0.	.0	29.5
1		1310	159	0.	.0	29.5
1		1315	160	0.	.0	29.5
1		1320	161	0.	.0	29.5
1		1325	162	0.	.0	29.5
1		1330	163	0.	.0	29.5
1		1335	164	0.	.0	29.5
1		1340	165	0.	.0	29.5
1		1345	166	0.	.0	29.5
1		1350	167	0.	.0	29.5
1		1355	168	0.	.0	29.5
1		1400	169	0.	.0	29.5
1		1405	170	0.	.0	29.5
1		1410	171	0.	.0	29.5
1		1415	172	0.	.0	29.5
1		1420	173	0.	.0	29.5
1		1425	174	0.	.0	29.5
1		1430	175	0.	.0	29.5
1		1435	176	0.	.0	29.5
1		1440	177	0.	.0	29.5
1		1445	178	0.	.0	29.5
1		1450	179	0.	.0	29.5
1		1455	180	0.	.0	29.5
1		1500	181	0.	.0	29.5
1		1505	182	0.	.0	29.5
1		1510	183	0.	.0	29.5
1		1515	184	0.	.0	29.5
1		1520	185	0.	.0	29.5
1		1525	186	0.	.0	29.5
1		1530	187	0.	.0	29.5
1		1535	188	0.	.0	29.5
1		1540	189	0.	.0	29.5
1		1545	190	0.	.0	29.5
1		1550	191	0.	.0	29.5
1		1555	192	0.	.0	29.5
1		1600	193	0.	.0	29.5
1		1605	194	0.	.0	29.5
1		1610	195	0.	.0	29.5
1		1615	196	0.	.0	29.5
1		1620	197	0.	.0	29.5
1		1625	198	0.	.0	29.5
1		1630	199	0.	.0	29.5
1		1635	200	0.	.0	29.5
1		1640	201	0.	.0	29.5
1		1645	202	0.	.0	29.5
1		1650	203	0.	.0	29.5
1		1655	204	0.	.0	29.5
1		1700	205	0.	.0	29.5
1		1705	206	0.	.0	29.5
1		1710	207	0.	.0	29.5
1		1715	208	0.	.0	29.5
1		1720	209	0.	.0	29.5
1		1725	210	0.	.0	29.5
1		1730	211	0.	.0	29.5
1		1735	212	0.	.0	29.5
1		1740	213	0.	.0	29.5
1		1745	214	0.	.0	29.5
1		1750	215	0.	.0	29.5
1		1755	216	0.	.0	29.5
1		1800	217	0.	.0	29.5
1		1805	218	0.	.0	29.5
1		1810	219	0.	.0	29.5
1		1815	220	0.	.0	29.5
1		1820	221	0.	.0	29.5
1		1825	222	0.	.0	29.5
1		1830	223	0.	.0	29.5
1		1835	224	0.	.0	29.5
1		1840	225	0.	.0	29.5
1		1845	226	0.	.0	29.5
1		1850	227	0.	.0	29.5
1		1855	228	0.	.0	29.5
1		1900	229	0.	.0	29.5
1		1905	230	0.	.0	29.5
1		1910	231	0.	.0	29.5
1		1915	232	0.	.0	29.5
1		1920	233	0.	.0	29.5
1		1925	234	0.	.0	29.5
1		1930	235	0.	.0	29.5
1		1935	236	0.	.0	29.5
1		1940	237	0.	.0	29.5
1		1945	238	0.	.0	29.5
1		1950	239	0.	.0	29.5
1		1955	240	0.	.0	29.5
2		0000	241	0.	.0	29.5
2		0005	242	0.	.0	29.5
2		0010	243	0.	.0	29.5
2		0015	244	0.	.0	29.5
2		0020	245	0.	.0	29.5
2		0025	246	0.	.0	29.5
2		0030	247	0.	.0	29.5
2		0035	248	0.	.0	29.5
2		0040	249	0.	.0	29.5
2		0045	250	0.	.0	29.5
2		0050	251	0.	.0	29.5
2		0055	252	0.	.0	29.5
2		0100	253	0.	.0	29.5
2		0105	254	0.	.0	29.5
2		0110	255	0.	.0	29.5
2		0115	256	0.	.0	29.5
2		0120	257	0.	.0	29.5
2		0125	258	0.	.0	29.5
2		0130	259	0.	.0	29.5
2		0135	260	0.	.0	29.5
2		0140	261	0.	.0	29.5
2		0145	262	0.	.0	29.5
2		0150	263	0.	.0	29.5
2		0155	264	0.	.0	29.5
2		0200	265	0.	.0	29.5
2		0205	266	0.	.0	29.5
2		0210	267	0.	.0	29.5
2		0215	268	0.	.0	29.5
2		0220	269	0.	.0	29.5
2		0225	270	0.	.0	29.5
2		0230	271	0.	.0	29.5
2		0235	272	0.	.0	29.5
2		0240	273	0.	.0	29.5
2		0245	274	0.	.0	29.5
2		0250	275	0.	.0	29.5
2		0255	276	0.	.0	29.5
2		0300	277	0.	.0	29.5
2		0305	278	0.	.0	29.5
2		0310	279	0.	.0	29.5
2		0315	280	0.	.0	29.5
2		0320	281	0.	.0	29.5
2		0325	282	0.	.0	29.5
2		0330	283	0.	.0	29.5
2		0335	284	0.	.0	29.5
2		0340	285	0.	.0	29.5
2		0345	286	0.	.0	29.5
2		0350	287	0.	.0	29.5
2		0355	288	0.	.0	29.5
2		0000	289	0.	.0	29.5
2		0005	290	0.	.0	29.5
2		0010	291	0.	.0	29.5
2		0015	292	0.	.0	29.5
2		0020	293	0.	.0	29.5
2		0025	294	0.	.0	29.5
2		0030	295	0.	.0	29.5
2		0035	296	0.	.0	29.5
2		0040	297	0.	.0	29.5
2		0045	298	0.	.0	29.5
2		0050	299	0.	.0	29.5
2		0055	300	0.	.0	29.5

PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
105.	5.42	79.	22.	21.	21.
		(INCHES) .876	.983	.983	.983
		(AC-FT) 39.	44.	44.	44.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
21.	5.42	12.	3.	3.	3.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
35.84	5.42	34.00	30.77	30.73	30.73

CUMULATIVE AREA = .84 SQ MI

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1	0635	80	44.	24.8	29.5	*	1	1455	180	30.	11.8	27.2	*	1	2315	280	0.	.0	23.0
1	0640	81	44.	24.9	29.5	*	1	1500	181	30.	11.6	27.2	*	1	2320	281	0.	.0	23.0
1	0645	82	44.	25.1	29.5	*	1	1505	182	30.	11.4	27.1	*	1	2325	282	0.	.0	23.0
1	0650	83	44.	25.2	29.5	*	1	1510	183	30.	11.2	27.1	*	1	2330	283	0.	.0	23.0
1	0655	84	44.	25.3	29.5	*	1	1515	184	29.	11.0	27.0	*	1	2335	284	0.	.0	23.0
1	0700	85	44.	25.4	29.5	*	1	1520	185	29.	10.8	27.0	*	1	2340	285	0.	.0	23.0
1	0705	86	44.	25.5	29.6	*	1	1525	186	29.	10.6	26.9	*	1	2345	286	0.	.0	23.0
1	0710	87	44.	25.6	29.6	*	1	1530	187	28.	10.4	26.9	*	1	2350	287	0.	.0	23.0
1	0715	88	44.	25.7	29.6	*	1	1535	188	28.	10.2	26.9	*	1	2355	288	0.	.0	23.0
1	0720	89	44.	25.8	29.6	*	1	1540	189	28.	10.0	26.8	*	2	0000	289	0.	.0	23.0
1	0725	90	44.	25.9	29.6	*	1	1545	190	28.	9.8	26.8	*	2	0005	290	0.	.0	23.0
1	0730	91	44.	26.0	29.6	*	1	1550	191	27.	9.7	26.7	*	2	0010	291	0.	.0	23.0
1	0735	92	44.	26.0	29.6	*	1	1555	192	27.	9.5	26.7	*	2	0015	292	0.	.0	23.0
1	0740	93	44.	26.1	29.6	*	1	1600	193	27.	9.3	26.7	*	2	0020	293	0.	.0	23.0
1	0745	94	44.	26.2	29.6	*	1	1605	194	27.	9.1	26.6	*	2	0025	294	0.	.0	23.0
1	0750	95	44.	26.2	29.6	*	1	1610	195	26.	8.9	26.6	*	2	0030	295	0.	.0	23.0
1	0755	96	44.	26.3	29.6	*	1	1615	196	26.	8.7	26.5	*	2	0035	296	0.	.0	23.0
1	0800	97	44.	26.3	29.6	*	1	1620	197	26.	8.6	26.5	*	2	0040	297	0.	.0	23.0
1	0805	98	44.	26.3	29.6	*	1	1625	198	26.	8.4	26.5	*	2	0045	298	0.	.0	23.0
1	0810	99	44.	26.4	29.7	*	1	1630	199	26.	8.2	26.4	*	2	0050	299	0.	.0	23.0
1	0815	100	44.	26.4	29.7	*	1	1635	200	25.	8.0	26.4	*	2	0055	300	0.	.0	23.0

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 44.	8.75		44.	27.	26.	26.
		(INCHES)	.378	.914	.914	.914
		(AC-FT)	22.	53.	53.	53.

PEAK STORAGE	TIME		MAXIMUM AVERAGE STORAGE			
			6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)					
27.	8.75		25.	11.	11.	11.

PEAK STAGE	TIME		MAXIMUM AVERAGE STAGE			
			6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)					
29.67	8.75		29.51	26.73	26.59	26.59

CUMULATIVE AREA = 1.08 SQ MI

HYDROGRAPH AT STATION DET2
PLAN 1, RATIO = .79

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	23.0 *	1		0820	101	43.	22.9	29.3 *	1		1640	201	21.	5.1	25.8
1		0005	2	0.	.0	23.0 *	1		0825	102	43.	22.9	29.3 *	1		1645	202	21.	4.9	25.7
1		0010	3	0.	.0	23.0 *	1		0830	103	43.	22.9	29.3 *	1		1650	203	21.	4.8	25.7
1		0015	4	0.	.0	23.0 *	1		0835	104	43.	22.9	29.3 *	1		1655	204	21.	4.6	25.7
1		0020	5	0.	.0	23.0 *	1		0840	105	43.	22.9	29.3 *	1		1700	205	21.	4.5	25.6
1		0025	6	0.	.0	23.1 *	1		0845	106	43.	22.8	29.3 *	1		1705	206	20.	4.3	25.6
1		0030	7	1.	.0	23.1 *	1		0850	107	43.	22.8	29.3 *	1		1710	207	20.	4.2	25.6
1		0035	8	2.	.1	23.2 *	1		0855	108	43.	22.7	29.2 *	1		1715	208	20.	4.1	25.6
1		0040	9	3.	.1	23.3 *	1		0900	109	43.	22.6	29.2 *	1		1720	209	20.	3.9	25.5
1		0045	10	3.	.1	23.4 *	1		0905	110	43.	22.5	29.2 *	1		1725	210	20.	3.8	25.5
1		0050	11	4.	.1	23.5 *	1		0910	111	43.	22.5	29.2 *	1		1730	211	20.	3.6	25.5
1		0055	12	5.	.1	23.5 *	1		0915	112	43.	22.4	29.2 *	1		1735	212	19.	3.5	25.4
1		0100	13	5.	.2	23.6 *	1		0920	113	43.	22.3	29.2 *	1		1740	213	19.	3.4	25.4
1		0105	14	6.	.2	23.7 *	1		0925	114	43.	22.2	29.2 *	1		1745	214	19.	3.3	25.4
1		0110	15	6.	.2	23.7 *	1		0930	115	42.	22.1	29.2 *	1		1750	215	19.	3.1	25.4
1		0115	16	6.	.2	23.8 *	1		0935	116	42.	21.9	29.2 *	1		1755	216	19.	3.0	25.3
1		0120	17	7.	.2	23.8 *	1		0940	117	42.	21.8	29.2 *	1		1800	217	18.	2.9	25.3
1		0125	18	7.	.2	23.9 *	1		0945	118	42.	21.7	29.1 *	1		1805	218	18.	2.7	25.3
1		0130	19	8.	.2	24.0 *	1		0950	119	42.	21.6	29.1 *	1		1810	219	18.	2.6	25.2
1		0135	20	8.	.3	24.0 *	1		0955	120	42.	21.4	29.1 *	1		1815	220	18.	2.5	25.2
1		0140	21	9.	.3	24.1 *	1		1000	121	42.	21.3	29.1 *	1		1820	221	18.	2.4	25.2
1		0145	22	9.	.4	24.1 *	1		1005	122	42.	21.1	29.1 *	1		1825	222	18.	2.2	25.2
1		0150	23	10.	.4	24.2 *	1		1010	123	42.	20.9	29.1 *	1		1830	223	17.	2.1	25.1
1		0155	24	10.	.5	24.2 *	1		1015	124	42.	20.7	29.0 *	1		1835	224	17.	2.0	25.1
1		0200	25	11.	.6	24.3 *	1		1020	125	42.	20.6	29.0 *	1		1840	225	17.	1.9	25.1
1		0205	26	11.	.7	24.4 *	1		1025	126	42.	20.4	29.0 *	1		1845	226	17.	1.8	25.1
1		0210	27	12.	.8	24.5 *	1		1030	127	41.	20.2	29.0 *	1		1850	227	17.	1.6	25.0
1		0215	28	13.	.9	24.6 *	1		1035	128	41.	20.0	28.9 *	1		1855	228	17.	1.5	25.0
1		0220	29	14.	1.0	24.6 *	1		1040	129	41.	19.8	28.9 *	1		1900	229	16.	1.4	25.0
1		0225	30	14.	1.1	24.7 *	1		1045	130	41.	19.5	28.8 *	1		1905	230	16.	1.3	24.9
1		0230	31	15.	1.2	24.8 *	1		1050	131	40.	19.3	28.8 *	1		1910	231	15.	1.2	24.8
1		0235	32	15.	1.3	24.9 *	1		1055	132	40.	19.1	28.7 *	1		1915	232	14.	1.1	24.7
1		0240	33	16.	1.3	24.9 *	1		1100	133	40.	18.9	28.7 *	1		1920	233	14.	1.0	24.6
1		0245	34	16.	1.4	25.0 *	1		1105	134	39.	18.6	28.6 *	1		1925	234	13.	.9	24.6
1		0250	35	17.	1.5	25.0 *	1		1110	135	39.	18.4	28.6 *	1		1930	235	12.	.8	24.5
1		0255	36	17.	1.6	25.0 *	1		1115	136	39.	18.1	28.5 *	1		1935	236	12.	.7	24.4
1		0300	37	17.	1.7	25.1 *	1		1120	137	38.	17.8	28.5 *	1		1940	237	11.	.7	24.3
1		0305	38	17.	1.9	25.1 *	1		1125	138	38.	17.6	28.4 *	1		1945	238	11.	.6	24.3
1		0310	39	18.	2.2	25.2 *	1		1130	139	38.	17.3	28.4 *	1		1950	239	10.	.5	24.2
1		0315	40	18.	2.5	25.2 *	1		1135	140	37.	17.1	28.3 *	1		1955	240	10.	.5	24.2
1		0320	41	19.	2.9	25.3 *	1		1140	141	37.	16.8	28.2 *	1		2000	241	9.	.4	24.1
1		0325	42	19.	3.4	25.4 *	1		1145	142	37.	16.6	28.2 *	1		2005	242	9.	.3	24.1
1		0330	43	20.	4.1	25.6 *	1		1150	143	36.	16.3	28.1 *	1		2010	243	8.	.3	24.0
1		0335	44	21.	4.9	25.7 *	1		1155	144	36.	16.1	28.1 *	1		2015	244	7.	.2	23.8
1		0340	45	22.	5.9	25.9 *	1		1200	145	36.	15.8	28.0 *	1		2020	245	6.	.2	23.7
1		0345	46	24.	6.9	26.2 *	1		1205	146	35.	15.6	28.0 *	1		2025	246	4.	.1	23.5
1		0350	47	25.	7.8	26.4 *	1		1210	147	35.	15.3	27.9 *	1		2030	247	4.	.1	23.4
1		0355	48	26.	8.7	26.5 *	1		1215	148	35.	15.1	27.9 *	1		2035	248	3.	.1	23.3
1		0400	49	27.	9.5	26.7 *	1		1220	149	34.	14.8	27.8 *	1		2040	249	2.	.1	23.3
1		0405	50	28.	10.2	26.9 *	1		1225	150	34.	14.6	27.8 *	1		2045	250	2.	.1	23.2
1		0410	51	29.	10.9	27.0 *	1		1230	151	34.	14.4	27.7 *	1		2050	251	1.	.0	23.2
1		0415	52	30.	11.5	27.1 *	1		1235	152	33.	14.1	27.7 *	1		2055	252	1.	.0	23.1
1		0420	53	31.	12.0	27.2 *	1		1240	153	33.	13.9	27.6 *	1		2100	253	1.	.0	23.1
1		0425	54	31.	12.4	27.3 *	1		1245	154	33.	13.7	27.6 *	1		2105	254	1.	.0	23.1
1		0430	55	32.	12.9	27.4 *	1		1250	155	33.	13.5	27.5 *	1		2110	255	1.	.0	23.1
1		0435	56	32.	13.3	27.5 *	1		1255	156	32.	13.2	27.5 *	1		2115	256	0.	.0	23.1
1		0440	57	33.	13.8	27.6 *	1		1300	157	32.	13.0	27.4 *	1		2120	257	0.	.0	23.0
1		0445	58	34.	14.4	27.7 *	1		1305	158	32.	12.8	27.4 *	1		2125	258	0.	.0	23.0
1		0450	59	35.	15.0	27.9 *	1		1310	159	31.	12.6	27.4 *	1		2130	259	0.	.0	23.0
1		0455	60	35.	15.6	28.0 *	1		1315	160	31.	12.4	27.3 *	1		2135	260	0.	.0	23.0
1		0500	61	36.	16.3	28.1 *	1		1320	161	31.	12.2	27.3 *	1		2140	261	0.	.0	23.0
1		0505	62	37.	16.9	28.3 *	1		1325	162	31.	11.9	27.2 *	1		2145	262	0.	.0	23.0
1		0510	63	38.	17.5	28.4 *	1		1330	163	30.	11.7	27.2 *	1		2150	263	0.	.0	23.0
1		0515	64	39.	18.0	28.5 *	1		1335	164	30.	11.5	27.1 *	1		2155	264	0.	.0	23.0
1		0520	65	39.	18.5	28.6 *	1		1340	165	30.	11.3	27.1 *	1		2200	265	0.	.0	23.0
1		0525	66	40.	18.8	28.7 *	1		1345	166	29.	11.1	27.0 *	1		2205	266	0.	.0	23.0
1		0530	67	40.	19.2	28.7 *	1		1350	167	29.	10.9	27.0 *	1		2210	267	0.	.0	23.0
1		0535	68	40.	19.5	28.8 *	1		1355	168	29.	10.7	27.0 *	1		2215	268	0.	.0	23.0
1		0540	69	41.	19.7	28.9 *	1		1400	169	29.	10.5	26.9 *	1		2220	269	0.	.0	23.0
1		0545	70	41.	20.0	28.9 *	1		1405	170	28.	10.3	26.9 *	1		2225	270	0.	.0	23.0
1		0550	71	41.	20.2	29.0 *	1		1410	171	28.	10.1	26.8 *	1		2230	271	0.	.0	23.0
1		0555	72	42.	20.4	29.0 *	1		1415	172	28.	9.9	26.8 *	1		2235	272	0.	.0	23.0
1		0600	73	42.	20.6	29.0 *	1		1420	173	28.	9.8	26.8 *	1		2240	273	0.	.0	23.0
1		0605	74	42.	20.8	29.0 *	1		1425	174	27.	9.6	26.7 *	1		2245	274	0.	.0	23.0
1		0610	75	42.	21.0	29.1 *	1		1430	175	27.	9.4	26.7 *	1		2250	275	0.	.0	23.0
1		0615	76	42.	21.2	29.1 *	1		1435	176	27.	9.2	26.6 *	1		2255	276	0.	.0	23.0
1		0620	77	42.	21.3	29.1 *	1		1440	177	27.	9.0	26.6 *	1		2300	277	0.	.0	23.0
1		0625	78	42.	21.5	29.1 *	1		1445	178	26.	8.8	26.6 *	1		2305	278	0.	.0	23.0
1		0630	79	42.	21.6	29.1 *	1		1450	179	26.	8.6	26.5 *	1		2310	279	0.	.0	23.0
1		0635	80	42.	21.7	29.1 *	1		1455	180	26.	8.5	26.5 *	1		2315	280	0.	.0	23.0
1		0640	81	42.	21.8	29.2 *	1		1500	181	26.	8.3	26.4 *	1		2320	281	0.	.0	23.0
1		0645	82	42.	21.9	29.2 *	1		1505	182	25.	8.1	26.4 *	1		2325	282	0.	.0	23.0
1		0650	83	42.	22.0	29.2 *	1		1510	183	25.	7.9	26.4 *	1		2330	283	0.	.0	23.0

1	0655	84	42.	22.1	29.2	*	1	1515	184	25.	7.8	26.3	*	1	2335	284	0.	.0	23.0
1	0700	85	43.	22.2	29.2	*	1	1520	185	25.	7.6	26.3	*	1	2340	285	0.	.0	23.0
1	0705	86	43.	22.3	29.2	*	1	1525	186	25.	7.4	26.3	*	1	2345	286	0.	.0	23.0
1	0710	87	43.	22.4	29.2	*	1	1530	187	24.	7.3	26.2	*	1	2350	287	0.	.0	23.0
1	0715	88	43.	22.5	29.2	*	1	1535	188	24.	7.1	26.2	*	1	2355	288	0.	.0	23.0
1	0720	89	43.	22.5	29.2	*	1	1540	189	24.	6.9	26.2	*	2	0000	289	0.	.0	23.0
1	0725	90	43.	22.6	29.2	*	1	1545	190	24.	6.8	26.1	*	2	0005	290	0.	.0	23.0
1	0730	91	43.	22.6	29.2	*	1	1550	191	23.	6.6	26.1	*	2	0010	291	0.	.0	23.0
1	0735	92	43.	22.7	29.2	*	1	1555	192	23.	6.4	26.1	*	2	0015	292	0.	.0	23.0
1	0740	93	43.	22.7	29.3	*	1	1600	193	23.	6.3	26.0	*	2	0020	293	0.	.0	23.0
1	0745	94	43.	22.8	29.3	*	1	1605	194	23.	6.1	26.0	*	2	0025	294	0.	.0	23.0
1	0750	95	43.	22.8	29.3	*	1	1610	195	23.	6.0	26.0	*	2	0030	295	0.	.0	23.0
1	0755	96	43.	22.9	29.3	*	1	1615	196	22.	5.8	25.9	*	2	0035	296	0.	.0	23.0
1	0800	97	43.	22.9	29.3	*	1	1620	197	22.	5.7	25.9	*	2	0040	297	0.	.0	23.0
1	0805	98	43.	22.9	29.3	*	1	1625	198	22.	5.5	25.9	*	2	0045	298	0.	.0	23.0
1	0810	99	43.	22.9	29.3	*	1	1630	199	22.	5.4	25.8	*	2	0050	299	0.	.0	23.0
1	0815	100	43.	22.9	29.3	*	1	1635	200	22.	5.2	25.8	*	2	0055	300	0.	.0	23.0

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)	(CFS)				
+ 43.	8.25		42.	23.	22.	22.
		(INCHES)	.361	.800	.800	.800
		(AC-FT)	21.	46.	46.	46.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
+ 23.	8.25	21.	9.	9.	9.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
+ 29.28	8.25	29.08	26.21	26.10	26.10

CUMULATIVE AREA = 1.08 SQ MI

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HYDROGRAPH AT STATION DET2
PLAN 1, RATIO = .74

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DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	23.0 *	1		0820	101	42.	20.5	29.0 *	1		1640	201	19.	3.4	25.4
1		0005	2	0.	.0	23.0 *	1		0825	102	42.	20.5	29.0 *	1		1645	202	19.	3.2	25.4
1		0010	3	0.	.0	23.0 *	1		0830	103	42.	20.4	29.0 *	1		1650	203	19.	3.1	25.4
1		0015	4	0.	.0	23.0 *	1		0835	104	42.	20.4	29.0 *	1		1655	204	19.	3.0	25.3
1		0020	5	0.	.0	23.0 *	1		0840	105	42.	20.3	29.0 *	1		1700	205	18.	2.9	25.3
1		0025	6	0.	.0	23.0 *	1		0845	106	41.	20.2	29.0 *	1		1705	206	18.	2.7	25.3
1		0030	7	1.	.0	23.1 *	1		0850	107	41.	20.1	28.9 *	1		1710	207	18.	2.6	25.2
1		0035	8	1.	.0	23.2 *	1		0855	108	41.	20.0	28.9 *	1		1715	208	18.	2.5	25.2
1		0040	9	2.	.1	23.3 *	1		0900	109	41.	20.0	28.9 *	1		1720	209	18.	2.4	25.2
1		0045	10	3.	.1	23.3 *	1		0905	110	41.	19.9	28.9 *	1		1725	210	18.	2.2	25.2
1		0050	11	3.	.1	23.4 *	1		0910	111	41.	19.7	28.9 *	1		1730	211	17.	2.1	25.1
1		0055	12	3.	.1	23.4 *	1		0915	112	41.	19.6	28.8 *	1		1735	212	17.	2.0	25.1
1		0100	13	4.	.1	23.5 *	1		0920	113	41.	19.5	28.8 *	1		1740	213	17.	1.9	25.1
1		0105	14	4.	.1	23.5 *	1		0925	114	40.	19.4	28.8 *	1		1745	214	17.	1.8	25.1
1		0110	15	5.	.1	23.6 *	1		0930	115	40.	19.3	28.8 *	1		1750	215	17.	1.6	25.0
1		0115	16	5.	.2	23.6 *	1		0935	116	40.	19.1	28.7 *	1		1755	216	17.	1.5	25.0
1		0120	17	5.	.2	23.7 *	1		0940	117	40.	19.0	28.7 *	1		1800	217	16.	1.4	25.0
1		0125	18	6.	.2	23.7 *	1		0945	118	40.	18.8	28.7 *	1		1805	218	16.	1.3	24.9
1		0130	19	7.	.2	23.8 *	1		0950	119	39.	18.7	28.6 *	1		1810	219	15.	1.2	24.8
1		0135	20	7.	.2	23.9 *	1		0955	120	39.	18.5	28.6 *	1		1815	220	14.	1.1	24.7
1		0140	21	8.	.3	24.0 *	1		1000	121	39.	18.3	28.6 *	1		1820	221	14.	1.0	24.6
1		0145	22	9.	.3	24.0 *	1		1005	122	39.	18.2	28.5 *	1		1825	222	13.	.9	24.6
1		0150	23	9.	.3	24.1 *	1		1010	123	39.	18.0	28.5 *	1		1830	223	12.	.8	24.5
1		0155	24	9.	.4	24.1 *	1		1015	124	38.	17.8	28.5 *	1		1835	224	12.	.7	24.4
1		0200	25	10.	.5	24.2 *	1		1020	125	38.	17.6	28.4 *	1		1840	225	11.	.7	24.3
1		0205	26	10.	.5	24.2 *	1		1025	126	38.	17.4	28.4 *	1		1845	226	11.	.6	24.3
1		0210	27	11.	.6	24.3 *	1		1030	127	37.	17.2	28.3 *	1		1850	227	10.	.5	24.2
1		0215	28	12.	.7	24.4 *	1		1035	128	37.	17.0	28.3 *	1		1855	228	10.	.4	24.2
1		0220	29	12.	.8	24.5 *	1		1040	129	37.	16.8	28.2 *	1		1900	229	9.	.4	24.1
1		0225	30	13.	.9	24.5 *	1		1045	130	37.	16.5	28.2 *	1		1905	230	9.	.3	24.1
1		0230	31	13.	1.0	24.6 *	1		1050	131	36.	16.3	28.1 *	1		1910	231	8.	.3	24.0
1		0235	32	14.	1.0	24.7 *	1		1055	132	36.	16.0	28.1 *	1		1915	232	7.	.2	23.8
1		0240	33	14.	1.1	24.7 *	1		1100	133	36.	15.8	28.0 *	1		1920	233	5.	.2	23.7
1		0245	34	15.	1.2	24.8 *	1		1105	134	35.	15.6	28.0 *	1		1925	234	4.	.1	23.5
1		0250	35	15.	1.2	24.8 *	1		1110	135	35.	15.3	27.9 *	1		1930	235	3.	.1	23.4
1		0255	36	16.	1.3	24.9 *	1		1115	136	35.	15.1	27.9 *	1		1935	236	3.	.1	23.3
1		0300	37	17.	1.4	25.0 *	1		1120	137	34.	14.8	27.8 *	1		1940	237	2.	.1	23.3
1		0305	38	17.	1.6	25.0 *	1		1125	138	34.	14.6	27.8 *	1		1945	238	2.	.1	23.2
1		0310	39	17.	1.8	25.1 *	1		1130	139	34.	14.4	27.7 *	1		1950	239	1.	.0	23.2
1		0315	40	17.	2.1	25.1 *	1		1135	140	33.	14.1	27.7 *	1		1955	240	1.	.0	23.1
1		0320	41	18.	2.4	25.2 *	1		1140	141	33.	13.9	27.6 *	1		2000	241	1.	.0	23.1
1		0325	42	19.	2.9	25.3 *	1		1145	142	33.	13.7	27.6 *	1		2005	242	1.	.0	23.1
1		0330	43	19.	3.5	25.4 *	1		1150	143	32.	13.5	27.5 *	1		2010	243	1.	.0	23.1
1		0335	44	20.	4.2	25.6 *	1		1155	144	32.	13.2	27.5 *	1		2015	244	0.	.0	23.1
1		0340	45	21.	5.1	25.8 *	1		1200	145	32.	13.0	27.4 *	1		2020	245	0.	.0	23.0
1		0345	46	23.	6.0	26.0 *	1		1205	146	32.	12.8	27.4 *	1		2025	246	0.	.0	23.0
1		0350	47	24.	6.9	26.1 *	1		1210	147	31.	12.6	27.3 *	1		2030	247	0.	.0	23.0
1		0355	48	25.	7.7	26.3 *	1		1215	148	31.	12.4	27.3 *	1		2035	248	0.	.0	23.0
1		0400	49	26.	8.4	26.5 *	1		1220	149	31.	12.1	27.3 *	1		2040	249	0.	.0	23.0
1		0405	50	27.	9.1	26.6 *	1		1225	150	30.	11.9	27.2 *	1		2045	250	0.	.0	23.0
1		0410	51	27.	9.7	26.7 *	1		1230	151	30.	11.7	27.2 *	1		2050	251	0.	.0	23.0
1		0415	52	28.	10.2	26.8 *	1		1235	152	30.	11.5	27.1 *	1		2055	252	0.	.0	23.0
1		0420	53	29.	10.7	26.9 *	1		1240	153	30.	11.3	27.1 *	1		2100	253	0.	.0	23.0
1		0425	54	29.	11.1	27.0 *	1		1245	154	29.	11.1	27.0 *	1		2105	254	0.	.0	23.0
1		0430	55	30.	11.5	27.1 *	1		1250	155	29.	10.9	27.0 *	1		2110	255	0.	.0	23.0
1		0435	56	31.	11.9	27.2 *	1		1255	156	29.	10.7	27.0 *	1		2115	256	0.	.0	23.0
1		0440	57	31.	12.4	27.3 *	1		1300	157	29.	10.5	26.9 *	1		2120	257	0.	.0	23.0
1		0445	58	32.	12.9	27.4 *	1		1305	158	28.	10.3	26.9 *	1		2125	258	0.	.0	23.0
1		0450	59	33.	13.5	27.5 *	1		1310	159	28.	10.1	26.8 *	1		2130	259	0.	.0	23.0
1		0455	60	33.	14.1	27.7 *	1		1315	160	28.	9.9	26.8 *	1		2135	260	0.	.0	23.0
1		0500	61	34.	14.7	27.8 *	1		1320	161	28.	9.7	26.8 *	1		2140	261	0.	.0	23.0
1		0505	62	35.	15.3	27.9 *	1		1325	162	27.	9.5	26.7 *	1		2145	262	0.	.0	23.0
1		0510	63	36.	15.8	28.0 *	1		1330	163	27.	9.4	26.7 *	1		2150	263	0.	.0	23.0
1		0515	64	36.	16.3	28.1 *	1		1335	164	27.	9.2	26.6 *	1		2155	264	0.	.0	23.0
1		0520	65	37.	16.7	28.2 *	1		1340	165	27.	9.0	26.6 *	1		2200	265	0.	.0	23.0
1		0525	66	37.	17.0	28.3 *	1		1345	166	26.	8.8	26.6 *	1		2205	266	0.	.0	23.0
1		0530	67	38.	17.3	28.4 *	1		1350	167	26.	8.6	26.5 *	1		2210	267	0.	.0	23.0
1		0535	68	38.	17.6	28.4 *	1		1355	168	26.	8.4	26.5 *	1		2215	268	0.	.0	23.0
1		0540	69	38.	17.9	28.5 *	1		1400	169	26.	8.3	26.4 *	1		2220	269	0.	.0	23.0
1		0545	70	39.	18.1	28.5 *	1		1405	170	25.	8.1	26.4 *	1		2225	270	0.	.0	23.0
1		0550	71	39.	18.3	28.6 *	1		1410	171	25.	7.9	26.4 *	1		2230	271	0.	.0	23.0
1		0555	72	39.	18.5	28.6 *	1		1415	172	25.	7.7	26.3 *	1		2235	272	0.	.0	23.0
1		0600	73	39.	18.7	28.6 *	1		1420	173	25.	7.6	26.3 *	1		2240	273	0.	.0	23.0
1		0605	74	40.	18.9	28.7 *	1		1425	174	24.	7.4	26.3 *	1		2245	274	0.	.0	23.0
1		0610	75	40.	19.1	28.7 *	1		1430	175	24.	7.2	26.2 *	1		2250	275	0.	.0	23.0
1		0615	76	40.	19.2	28.7 *	1		1435	176	24.	7.1	26.2 *	1		2255	276	0.	.0	23.0
1		0620	77	40.	19.4	28.8 *	1		1440	177	24.	6.9	26.2 *	1		2300	277	0.	.0	23.0
1		0625	78	40.	19.5	28.8 *	1		1445	178	24.	6.7	26.1 *	1		2305	278	0.	.0	23.0
1		0630	79	41.	19.6	28.8 *	1		1450	179	23.	6.6	26.1 *	1		2310	279	0.	.0	23.0
1		0635	80	41.	19.7	28.9 *	1		1455	180	23.	6.4	26.1 *	1		2315	280	0.	.0	23.0
1		0640	81	41.	19.8	28.9 *	1		1500	181	23.	6.3	26.0 *	1		2320	281	0.	.0	23.0
1		0645	82	41.	19.9	28.9 *	1		1505	182	23.	6.1	26.0 *	1		2325	282	0.	.0	23.0
1		0650	83	41.	20.0	28.9 *	1		1510	183	23.	6.0	26.0 *	1		2330	283	0.	.0	23.0
1		0655	84	41.	20.1	28.9 *	1		1515	184	22.	5.8	25.9 *	1		2335	284	0.	.0	23.0
1		0700	85	41.	20.1	28.9 *	1		1520	185	22.	5.6	25.9 *	1		2340	285	0.	.0	23.0
1		0705	86	41.	20.2	29.0 *	1		1525	186	22.	5.5	25.9 *	1		2345	286	0.	.0	23.0
1		0710	87	42.	20.3	29.0 *	1		1530	187	22.	5.3	25.8 *	1		2350	287	0.	.0	23.0

1	0715	88	42.	20.3	29.0	*	1	1535	188	22.	5.2	25.8	*	1	2355	288	0.	.0	23.0
1	0720	89	42.	20.4	29.0	*	1	1540	189	21.	5.0	25.8	*	2	0000	289	0.	.0	23.0
1	0725	90	42.	20.4	29.0	*	1	1545	190	21.	4.9	25.7	*	2	0005	290	0.	.0	23.0
1	0730	91	42.	20.5	29.0	*	1	1550	191	21.	4.8	25.7	*	2	0010	291	0.	.0	23.0
1	0735	92	42.	20.5	29.0	*	1	1555	192	21.	4.6	25.7	*	2	0015	292	0.	.0	23.0
1	0740	93	42.	20.5	29.0	*	1	1600	193	21.	4.5	25.6	*	2	0020	293	0.	.0	23.0
1	0745	94	42.	20.6	29.0	*	1	1605	194	20.	4.3	25.6	*	2	0025	294	0.	.0	23.0
1	0750	95	42.	20.6	29.0	*	1	1610	195	20.	4.2	25.6	*	2	0030	295	0.	.0	23.0
1	0755	96	42.	20.6	29.0	*	1	1615	196	20.	4.0	25.6	*	2	0035	296	0.	.0	23.0
1	0800	97	42.	20.6	29.0	*	1	1620	197	20.	3.9	25.5	*	2	0040	297	0.	.0	23.0
1	0805	98	42.	20.6	29.0	*	1	1625	198	20.	3.8	25.5	*	2	0045	298	0.	.0	23.0
1	0810	99	42.	20.6	29.0	*	1	1630	199	19.	3.6	25.5	*	2	0050	299	0.	.0	23.0
1	0815	100	42.	20.5	29.0	*	1	1635	200	19.	3.5	25.4	*	2	0055	300	0.	.0	23.0

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)	(CFS)				
+ 42.	7.92		40.	21.	20.	20.
		(INCHES)	.343	.719	.719	.719
		(AC-FT)	20.	41.	41.	41.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
21.	7.92	19.	8.	7.	7.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
29.02	7.92	28.70	25.86	25.76	25.76

CUMULATIVE AREA = 1.08 SQ MI

HYDROGRAPH AT STATION DET2
PLAN 1, RATIO = .68

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000		1	0.	.0	23.0	*	1	0820		101	38.	17.8	28.5	*	1	1640		201	17.	1.7	25.1
1	0005		2	0.	.0	23.0	*	1	0825		102	38.	17.8	28.4	*	1	1645		202	17.	1.6	25.0
1	0010		3	0.	.0	23.0	*	1	0830		103	38.	17.7	28.4	*	1	1650		203	17.	1.4	25.0
1	0015		4	0.	.0	23.0	*	1	0835		104	38.	17.6	28.4	*	1	1655		204	16.	1.3	24.9
1	0020		5	0.	.0	23.0	*	1	0840		105	38.	17.5	28.4	*	1	1700		205	15.	1.2	24.8
1	0025		6	0.	.0	23.0	*	1	0845		106	38.	17.4	28.4	*	1	1705		206	14.	1.1	24.7
1	0030		7	1.	.0	23.1	*	1	0850		107	38.	17.3	28.4	*	1	1710		207	14.	1.0	24.7
1	0035		8	1.	.0	23.1	*	1	0855		108	38.	17.2	28.3	*	1	1715		208	13.	.9	24.6
1	0040		9	2.	.0	23.2	*	1	0900		109	37.	17.1	28.3	*	1	1720		209	12.	.9	24.5
1	0045		10	2.	.1	23.2	*	1	0905		110	37.	17.0	28.3	*	1	1725		210	12.	.8	24.4
1	0050		11	2.	.1	23.3	*	1	0910		111	37.	16.9	28.3	*	1	1730		211	11.	.7	24.4
1	0055		12	2.	.1	23.3	*	1	0915		112	37.	16.8	28.2	*	1	1735		212	11.	.6	24.3
1	0100		13	3.	.1	23.3	*	1	0920		113	37.	16.6	28.2	*	1	1740		213	10.	.5	24.2
1	0105		14	3.	.1	23.3	*	1	0925		114	36.	16.5	28.2	*	1	1745		214	10.	.5	24.2
1	0110		15	3.	.1	23.4	*	1	0930		115	36.	16.3	28.1	*	1	1750		215	9.	.4	24.1
1	0115		16	3.	.1	23.4	*	1	0935		116	36.	16.2	28.1	*	1	1755		216	9.	.3	24.1
1	0120		17	4.	.1	23.4	*	1	0940		117	36.	16.0	28.1	*	1	1800		217	8.	.3	24.0
1	0125		18	4.	.1	23.5	*	1	0945		118	36.	15.8	28.0	*	1	1805		218	7.	.2	23.9
1	0130		19	5.	.1	23.6	*	1	0950		119	35.	15.6	28.0	*	1	1810		219	6.	.2	23.7
1	0135		20	5.	.2	23.7	*	1	0955		120	35.	15.5	28.0	*	1	1815		220	5.	.1	23.6
1	0140		21	6.	.2	23.8	*	1	1000		121	35.	15.3	27.9	*	1	1820		221	4.	.1	23.5
1	0145		22	7.	.2	23.9	*	1	1005		122	35.	15.1	27.9	*	1	1825		222	3.	.1	23.4
1	0150		23	8.	.3	24.0	*	1	1010		123	34.	14.9	27.8	*	1	1830		223	2.	.1	23.3
1	0155		24	9.	.3	24.0	*	1	1015		124	34.	14.7	27.8	*	1	1835		224	2.	.1	23.2
1	0200		25	9.	.3	24.1	*	1	1020		125	34.	14.4	27.7	*	1	1840		225	2.	.0	23.2
1	0205		26	9.	.4	24.1	*	1	1025		126	34.	14.2	27.7	*	1	1845		226	1.	.0	23.1
1	0210		27	10.	.4	24.2	*	1	1030		127	33.	14.0	27.6	*	1	1850		227	1.	.0	23.1
1	0215		28	10.	.5	24.2	*	1	1035		128	33.	13.8	27.6	*	1	1855		228	1.	.0	23.1
1	0220		29	11.	.6	24.3	*	1	1040		129	33.	13.5	27.6	*	1	1900		229	1.	.0	23.1
1	0225		30	11.	.7	24.3	*	1	1045		130	32.	13.3	27.5	*	1	1905		230	0.	.0	23.1
1	0230		31	12.	.7	24.4	*	1	1050		131	32.	13.1	27.5	*	1	1910		231	0.	.0	23.0
1	0235		32	12.	.8	24.4	*	1	1055		132	32.	12.9	27.4	*	1	1915		232	0.	.0	23.0
1	0240		33	12.	.8	24.5	*	1	1100		133	31.	12.6	27.4	*	1	1920		233	0.	.0	23.0
1	0245		34	13.	.9	24.5	*	1	1105		134	31.	12.4	27.3	*	1	1925		234	0.	.0	23.0
1	0250		35	13.	.9	24.6	*	1	1110		135	31.	12.2	27.3	*	1	1930		235	0.	.0	23.0
1	0255		36	14.	1.0	24.6	*	1	1115		136	31.	12.0	27.2	*	1	1935		236	0.	.0	23.0
1	0300		37	14.	1.1	24.7	*	1	1120		137	30.	11.8	27.2	*	1	1940		237	0.	.0	23.0
1	0305		38	15.	1.2	24.8	*	1	1125		138	30.	11.6	27.1	*	1	1945		238	0.	.0	23.0
1	0310		39	16.	1.4	25.0	*	1	1130		139	30.	11.4	27.1	*	1	1950		239	0.	.0	23.0
1	0315		40	17.	1.6	25.0	*	1	1135		140	29.	11.2	27.1	*	1	1955		240	0.	.0	23.0
1	0320		41	17.	1.9	25.1	*	1	1140		141	29.	11.0	27.0	*	1	2000		241	0.	.0	23.0
1	0325		42	18.	2.3	25.2	*	1	1145		142	29.	10.8	27.0	*	1	2005		242	0.	.0	23.0
1	0330		43	18.	2.8	25.3	*	1	1150		143	29.	10.6	26.9	*	1	2010		243	0.	.0	23.0
1	0335		44	19.	3.5	25.4	*	1	1155		144	28.	10.4	26.9	*	1	2015		244	0.	.0	23.0
1	0340		45	20.	4.2	25.6	*	1	1200		145	28.	10.2	26.8	*	1	2020		245	0.	.0	23.0
1	0345		46	21.	5.0	25.8	*	1	1205		146	28.	10.0	26.8	*	1	2025		246	0.	.0	23.0
1	0350		47	22.	5.8	25.9	*	1	1210		147	28.	9.8	26.8	*	1	2030		247	0.	.0	23.0
1	0355		48	23.	6.5	26.1	*	1	1215		148	27.	9.6	26.7	*	1	2035		248	0.	.0	23.0
1	0400		49	24.	7.1	26.2	*	1	1220		149	27.	9.4	26.7	*	1	2040		249	0.	.0	23.0
1	0405		50	25.	7.7	26.3	*	1	1225		150	27.	9.2	26.6	*	1	2045		250	0.	.0	23.0
1	0410		51	26.	8.3	26.4	*	1	1230		151	27.	9.1	26.6	*	1	2050		251	0.	.0	23.0
1	0415		52	26.	8.7	26.5	*	1	1235		152	26.	8.9	26.6	*	1	2055		252	0.	.0	23.0
1	0420		53	27.	9.2	26.6	*	1	1240		153	26.	8.7	26.5	*	1	2100		253	0.	.0	23.0
1	0425		54	27.	9.6	26.7	*	1	1245		154	26.	8.5	26.5	*	1	2105		254	0.	.0	23.0
1	0430		55	28.	10.0	26.8	*	1	1250		155	26.	8.3	26.5	*	1	2110		255	0.	.0	23.0
1	0435		56	28.	10.3	26.9	*	1	1255		156	25.	8.2	26.4	*	1	2115		256	0.	.0	23.0
1	0440		57	29.	10.7	27.0	*	1	1300		157	25.	8.0	26.4	*	1	2120		257	0.	.0	23.0
1	0445		58	30.	11.2	27.1	*	1	1305		158	25.	7.8	26.3	*	1	2125		258	0.	.0	23.0
1	0450		59	30.	11.7	27.2	*	1	1310		159	25.	7.6	26.3	*	1	2130		259	0.	.0	23.0
1	0455		60	31.	12.3	27.3	*	1	1315		160	25.	7.5	26.3	*	1	2135		260	0.	.0	23.0
1	0500		61	32.	12.8	27.4	*	1	1320		161	24.	7.3	26.2	*	1	2140		261	0.	.0	23.0
1	0505		62	32.	13.4	27.5	*	1	1325		162	24.	7.1	26.2	*	1	2145		262	0.	.0	23.0
1	0510		63	33.	13.8	27.6	*	1	1330		163	24.	7.0	26.2	*	1	2150		263	0.	.0	23.0
1	0515		64	34.	14.3	27.7	*	1	1335		164	24.	6.8	26.1	*	1	2155		264	0.	.0	23.0
1	0520		65	34.	14.6	27.8	*	1	1340		165	23.	6.6	26.1	*	1	2200		265	0.	.0	23.0
1	0525		66	34.	14.9	27.8	*	1	1345		166	23.	6.5	26.1	*	1	2205		266	0.	.0	23.0
1	0530		67	35.	15.2	27.9	*	1	1350		167	23.	6.3	26.0	*	1	2210		267	0.	.0	23.0
1	0535		68	35.	15.5	28.0	*	1	1355		168	23.	6.2	26.0	*	1	2215		268	0.	.0	23.0
1	0540		69	35.	15.7	28.0	*	1	1400		169	23.	6.0	26.0	*	1	2220		269	0.	.0	23.0
1	0545		70	36.	15.9	28.1	*	1	1405		170	22.	5.8	25.9	*	1	2225		270	0.	.0	23.0
1	0550		71	36.	16.1	28.1	*	1	1410		171	22.	5.7	25.9	*	1	2230		271	0.	.0	23.0
1	0555		72	36.	16.3	28.1	*	1	1415		172	22.	5.5	25.9	*	1	2235		272	0.	.0	23.0
1	0600		73	37.	16.5	28.2	*	1	1420		173	22.	5.4	25.8	*	1	2240		273	0.	.0	23.0
1	0605		74	37.	16.6	28.2	*	1	1425		174	22.	5.2	25.8	*	1	2245		274	0.	.0	23.0
1	0610		75	37.	16.8	28.2	*	1	1430		175	21.	5.1	25.8	*	1	2250		275	0.	.0	23.0
1	0615		76	37.	16.9	28.3	*	1	1435		176	21.	4.9	25.7	*	1	2255		276	0.	.0	23.0
1	0620		77	37.	17.1	28.3	*	1	1440		177	21.	4.8	25.7	*	1	2300		277	0.	.0	23.0
1	0625		78	37.	17.2	28.3	*	1	1445		178	21.	4.7	25.7	*	1	2305		278	0.	.0	23.0
1	0630		79	38.	17.3	28.3	*	1	1450		179	21.	4.5	25.6	*	1	2310		279	0.	.0	23.0
1	0635		80	38.	17.4	28.4	*	1	1455		180	20.	4.4	25.6	*	1	2315		280	0.	.0	23.0
1	0640		81	38.	17.5	28.4	*	1	1500		181	20.	4.2	25.6	*	1	2320		281	0.	.0	23.0
1	0645		82	38.	17.6	28.4	*	1	1505		182	20.	4.1	25.6	*	1	2325		282	0.	.0	23.0
1	0650		83	38.	17.7	28.4	*	1	1510		183	20.	4.0	25.5	*	1	2330		283	0.	.0	23.0
1	0655		84	38.	17.7	28.4	*	1	1515		184	20.	3.8	25.5	*	1	2335		284	0.	.0	23.0
1	0700		85	38.	17.8	28.5	*	1	1520		185	20.	3.7	25.5	*	1	2340		285	0.	.0	23.0
1	0705		86	38.	17.9	28.5	*	1	1525		186	19.	3.6	25.4	*	1	2345		286	0.	.0	23.0
1	0710		87	38.	17.9	28.5	*	1	1530		187	19.	3.4	25.4	*	1	2350		287	0.	.0	23.0
1	0715		88	38.	18.0	28.5	*	1	1535		188	19.	3.3	25.4	*	1	2355		288	0.	.0	23.0
1	0720		89	39.	18.0	28.5	*	1	1540		189	19.	3.2	25.4	*	2	0000		289	0.	.0	23.0
1	0725		90	39.	18.1	28.5	*	1	1545		190	19.	3.0	25.3	*	2	0005		290	0.	.0	23.0
1	0730		91	39.	18.1	28.5	*	1	1550		191	19.	2.9	25.3	*	2	0010		291	0.	.0	23.0

1	0735	92	39.	18.1	28.5	*	1	1555	192	18.	2.8	25.3	*	2	0015	292	0.	.0	23.0
1	0740	93	39.	18.1	28.5	*	1	1600	193	18.	2.6	25.3	*	2	0020	293	0.	.0	23.0
1	0745	94	39.	18.1	28.5	*	1	1605	194	18.	2.5	25.2	*	2	0025	294	0.	.0	23.0
1	0750	95	39.	18.1	28.5	*	1	1610	195	18.	2.4	25.2	*	2	0030	295	0.	.0	23.0
1	0755	96	39.	18.0	28.5	*	1	1615	196	18.	2.3	25.2	*	2	0035	296	0.	.0	23.0
1	0800	97	39.	18.0	28.5	*	1	1620	197	18.	2.2	25.2	*	2	0040	297	0.	.0	23.0
1	0805	98	38.	18.0	28.5	*	1	1625	198	17.	2.0	25.1	*	2	0045	298	0.	.0	23.0
1	0810	99	38.	17.9	28.5	*	1	1630	199	17.	1.9	25.1	*	2	0050	299	0.	.0	23.0
1	0815	100	38.	17.9	28.5	*	1	1635	200	17.	1.8	25.1	*	2	0055	300	0.	.0	23.0

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
39.	7.67		36.	18.	17.	17.
		(INCHES)	.313	.625	.625	.625
		(AC-FT)	18.	36.	36.	36.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
18.	7.67	16.	6.	6.	6.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
28.51	7.67	28.15	25.47	25.37	25.37

CUMULATIVE AREA = 1.08 SQ MI

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666 KK          ***************
                *             *
                *    DET3     *
                *             *
                ***************

668 KO          OUTPUT CONTROL VARIABLES
                     IPRNT        1  PRINT CONTROL
                     IPLOT        0  PLOT CONTROL
                     QSCAL       0.  HYDROGRAPH PLOT SCALE

                HYDROGRAPH ROUTING DATA

669 RS          STORAGE ROUTING
                     NSTPS        1  NUMBER OF SUBREACHES
                      ITYP     ELEV  TYPE OF INITIAL CONDITION
                    RSVRIC      .00  INITIAL CONDITION
                         X      .00 WORKING R AND D COEFFICIENT

670 SA              AREA          .0       .5      6.7      9.1

671 SE          ELEVATION         .00     1.00     6.00    11.70

672 SQ          DISCHARGE          0.      20.      70.      77.

673 SE          ELEVATION         .00     2.00    10.00    12.00
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COMPUTED STORAGE-ELEVATION DATA

STORAGE	.00	.17	15.14	59.85	
ELEVATION	.00	1.00	6.00	11.70	

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	.17	.98	15.14	45.05	59.85	62.60
OUTFLOW	.00	10.23	20.46	45.17	69.89	76.32	77.46
ELEVATION	.00	1.00	2.00	6.00	10.00	11.70	12.00

HYDROGRAPH AT STATION DET3
PLAN 1, RATIO = .86

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	.0 *	1		0820	101	34.	8.9	4.2 *	1		1640	201	0.	.0	.0
1		0005	2	0.	.0	.0 *	1		0825	102	34.	8.7	4.2 *	1		1645	202	0.	.0	.0
1		0010	3	0.	.0	.0 *	1		0830	103	33.	8.4	4.1 *	1		1650	203	0.	.0	.0
1		0015	4	0.	.0	.0 *	1		0835	104	33.	8.2	4.0 *	1		1655	204	0.	.0	.0
1		0020	5	0.	.0	.0 *	1		0840	105	33.	8.0	4.0 *	1		1700	205	0.	.0	.0
1		0025	6	1.	.0	.1 *	1		0845	106	32.	7.8	3.9 *	1		1705	206	0.	.0	.0
1		0030	7	2.	.0	.2 *	1		0850	107	32.	7.5	3.9 *	1		1710	207	0.	.0	.0
1		0035	8	3.	.0	.3 *	1		0855	108	32.	7.3	3.8 *	1		1715	208	0.	.0	.0
1		0040	9	4.	.1	.4 *	1		0900	109	31.	7.1	3.7 *	1		1720	209	0.	.0	.0
1		0045	10	4.	.1	.4 *	1		0905	110	31.	6.9	3.7 *	1		1725	210	0.	.0	.0
1		0050	11	5.	.1	.5 *	1		0910	111	30.	6.7	3.6 *	1		1730	211	0.	.0	.0
1		0055	12	5.	.1	.5 *	1		0915	112	30.	6.5	3.5 *	1		1735	212	0.	.0	.0
1		0100	13	6.	.1	.6 *	1		0920	113	30.	6.3	3.5 *	1		1740	213	0.	.0	.0
1		0105	14	6.	.1	.6 *	1		0925	114	29.	6.1	3.4 *	1		1745	214	0.	.0	.0
1		0110	15	6.	.1	.6 *	1		0930	115	29.	5.9	3.4 *	1		1750	215	0.	.0	.0
1		0115	16	7.	.1	.6 *	1		0935	116	29.	5.7	3.3 *	1		1755	216	0.	.0	.0
1		0120	17	7.	.1	.7 *	1		0940	117	28.	5.5	3.3 *	1		1800	217	0.	.0	.0
1		0125	18	7.	.1	.7 *	1		0945	118	28.	5.3	3.2 *	1		1805	218	0.	.0	.0
1		0130	19	8.	.1	.8 *	1		0950	119	28.	5.1	3.2 *	1		1810	219	0.	.0	.0
1		0135	20	10.	.2	1.0 *	1		0955	120	27.	4.9	3.1 *	1		1815	220	0.	.0	.0
1		0140	21	11.	.2	1.0 *	1		1000	121	27.	4.7	3.1 *	1		1820	221	0.	.0	.0
1		0145	22	11.	.2	1.1 *	1		1005	122	27.	4.5	3.0 *	1		1825	222	0.	.0	.0
1		0150	23	12.	.3	1.1 *	1		1010	123	26.	4.3	2.9 *	1		1830	223	0.	.0	.0
1		0155	24	13.	.3	1.2 *	1		1015	124	26.	4.2	2.9 *	1		1835	224	0.	.0	.0
1		0200	25	13.	.4	1.3 *	1		1020	125	26.	4.0	2.8 *	1		1840	225	0.	.0	.0
1		0205	26	14.	.5	1.4 *	1		1025	126	25.	3.8	2.8 *	1		1845	226	0.	.0	.0
1		0210	27	15.	.6	1.5 *	1		1030	127	25.	3.6	2.7 *	1		1850	227	0.	.0	.0
1		0215	28	16.	.6	1.6 *	1		1035	128	25.	3.5	2.7 *	1		1855	228	0.	.0	.0
1		0220	29	17.	.7	1.7 *	1		1040	129	24.	3.3	2.7 *	1		1900	229	0.	.0	.0
1		0225	30	18.	.8	1.7 *	1		1045	130	24.	3.1	2.6 *	1		1905	230	0.	.0	.0
1		0230	31	18.	.8	1.8 *	1		1050	131	24.	3.0	2.6 *	1		1910	231	0.	.0	.0
1		0235	32	18.	.8	1.8 *	1		1055	132	24.	2.8	2.5 *	1		1915	232	0.	.0	.0
1		0240	33	18.	.8	1.8 *	1		1100	133	23.	2.6	2.5 *	1		1920	233	0.	.0	.0
1		0245	34	18.	.8	1.8 *	1		1105	134	23.	2.5	2.4 *	1		1925	234	0.	.0	.0
1		0250	35	18.	.8	1.8 *	1		1110	135	23.	2.3	2.4 *	1		1930	235	0.	.0	.0
1		0255	36	19.	.9	1.9 *	1		1115	136	23.	2.2	2.3 *	1		1935	236	0.	.0	.0
1		0300	37	20.	1.0	2.0 *	1		1120	137	22.	2.0	2.3 *	1		1940	237	0.	.0	.0
1		0305	38	21.	1.1	2.0 *	1		1125	138	22.	1.8	2.2 *	1		1945	238	0.	.0	.0
1		0310	39	21.	1.4	2.1 *	1		1130	139	22.	1.7	2.2 *	1		1950	239	0.	.0	.0
1		0315	40	22.	1.7	2.2 *	1		1135	140	21.	1.5	2.2 *	1		1955	240	0.	.0	.0
1		0320	41	23.	2.2	2.4 *	1		1140	141	21.	1.4	2.1 *	1		2000	241	0.	.0	.0
1		0325	42	24.	2.9	2.6 *	1		1145	142	21.	1.3	2.1 *	1		2005	242	0.	.0	.0
1		0330	43	25.	3.8	2.8 *	1		1150	143	21.	1.1	2.0 *	1		2010	243	0.	.0	.0
1		0335	44	27.	5.0	3.1 *	1		1155	144	20.	1.0	2.0 *	1		2015	244	0.	.0	.0
1		0340	45	30.	6.3	3.5 *	1		1200	145	19.	.8	1.8 *	1		2020	245	0.	.0	.0
1		0345	46	32.	7.7	3.9 *	1		1205	146	17.	.7	1.7 *	1		2025	246	0.	.0	.0
1		0350	47	34.	9.0	4.3 *	1		1210	147	16.	.6	1.5 *	1		2030	247	0.	.0	.0
1		0355	48	36.	10.1	4.6 *	1		1215	148	14.	.5	1.4 *	1		2035	248	0.	.0	.0
1		0400	49	38.	11.0	4.8 *	1		1220	149	13.	.4	1.3 *	1		2040	249	0.	.0	.0
1		0405	50	39.	11.7	5.0 *	1		1225	150	12.	.3	1.2 *	1		2045	250	0.	.0	.0

1	0410	51	40.	12.3	5.2	1	1230	151	11.	.2	1.1	1	2050	251	0.	.0	.0
1	0415	52	41.	12.7	5.3	1	1235	152	10.	.2	1.0	1	2055	252	0.	.0	.0
1	0420	53	42.	13.1	5.4	1	1240	153	6.	.1	.6	1	2100	253	0.	.0	.0
1	0425	54	42.	13.3	5.5	1	1245	154	4.	.1	.4	1	2105	254	0.	.0	.0
1	0430	55	42.	13.5	5.5	1	1250	155	3.	.0	.3	1	2110	255	0.	.0	.0
1	0435	56	43.	13.7	5.6	1	1255	156	2.	.0	.2	1	2115	256	0.	.0	.0
1	0440	57	43.	13.9	5.7	1	1300	157	1.	.0	.1	1	2120	257	0.	.0	.0
1	0445	58	44.	14.3	5.8	1	1305	158	1.	.0	.1	1	2125	258	0.	.0	.0
1	0450	59	44.	14.7	5.9	1	1310	159	0.	.0	.0	1	2130	259	0.	.0	.0
1	0455	60	45.	15.3	6.0	1	1315	160	0.	.0	.0	1	2135	260	0.	.0	.0
1	0500	61	46.	15.8	6.1	1	1320	161	0.	.0	.0	1	2140	261	0.	.0	.0
1	0505	62	46.	16.4	6.2	1	1325	162	0.	.0	.0	1	2145	262	0.	.0	.0
1	0510	63	47.	16.8	6.2	1	1330	163	0.	.0	.0	1	2150	263	0.	.0	.0
1	0515	64	47.	17.1	6.3	1	1335	164	0.	.0	.0	1	2155	264	0.	.0	.0
1	0520	65	47.	17.2	6.3	1	1340	165	0.	.0	.0	1	2200	265	0.	.0	.0
1	0525	66	47.	17.3	6.3	1	1345	166	0.	.0	.0	1	2205	266	0.	.0	.0
1	0530	67	47.	17.3	6.3	1	1350	167	0.	.0	.0	1	2210	267	0.	.0	.0
1	0535	68	47.	17.2	6.3	1	1355	168	0.	.0	.0	1	2215	268	0.	.0	.0
1	0540	69	47.	17.0	6.3	1	1400	169	0.	.0	.0	1	2220	269	0.	.0	.0
1	0545	70	47.	16.9	6.2	1	1405	170	0.	.0	.0	1	2225	270	0.	.0	.0
1	0550	71	46.	16.7	6.2	1	1410	171	0.	.0	.0	1	2230	271	0.	.0	.0
1	0555	72	46.	16.5	6.2	1	1415	172	0.	.0	.0	1	2235	272	0.	.0	.0
1	0600	73	46.	16.3	6.2	1	1420	173	0.	.0	.0	1	2240	273	0.	.0	.0
1	0605	74	46.	16.1	6.1	1	1425	174	0.	.0	.0	1	2245	274	0.	.0	.0
1	0610	75	46.	15.8	6.1	1	1430	175	0.	.0	.0	1	2250	275	0.	.0	.0
1	0615	76	46.	15.6	6.1	1	1435	176	0.	.0	.0	1	2255	276	0.	.0	.0
1	0620	77	45.	15.3	6.0	1	1440	177	0.	.0	.0	1	2300	277	0.	.0	.0
1	0625	78	45.	15.1	6.0	1	1445	178	0.	.0	.0	1	2305	278	0.	.0	.0
1	0630	79	45.	14.8	5.9	1	1450	179	0.	.0	.0	1	2310	279	0.	.0	.0
1	0635	80	44.	14.5	5.8	1	1455	180	0.	.0	.0	1	2315	280	0.	.0	.0
1	0640	81	44.	14.2	5.7	1	1500	181	0.	.0	.0	1	2320	281	0.	.0	.0
1	0645	82	43.	13.9	5.7	1	1505	182	0.	.0	.0	1	2325	282	0.	.0	.0
1	0650	83	43.	13.6	5.6	1	1510	183	0.	.0	.0	1	2330	283	0.	.0	.0
1	0655	84	42.	13.3	5.5	1	1515	184	0.	.0	.0	1	2335	284	0.	.0	.0
1	0700	85	42.	13.1	5.4	1	1520	185	0.	.0	.0	1	2340	285	0.	.0	.0
1	0705	86	41.	12.8	5.3	1	1525	186	0.	.0	.0	1	2345	286	0.	.0	.0
1	0710	87	41.	12.5	5.3	1	1530	187	0.	.0	.0	1	2350	287	0.	.0	.0
1	0715	88	40.	12.2	5.2	1	1535	188	0.	.0	.0	1	2355	288	0.	.0	.0
1	0720	89	40.	11.9	5.1	1	1540	189	0.	.0	.0	2	0000	289	0.	.0	.0
1	0725	90	39.	11.7	5.0	1	1545	190	0.	.0	.0	2	0005	290	0.	.0	.0
1	0730	91	39.	11.4	4.9	1	1550	191	0.	.0	.0	2	0010	291	0.	.0	.0
1	0735	92	38.	11.1	4.9	1	1555	192	0.	.0	.0	2	0015	292	0.	.0	.0
1	0740	93	38.	10.9	4.8	1	1600	193	0.	.0	.0	2	0020	293	0.	.0	.0
1	0745	94	37.	10.6	4.7	1	1605	194	0.	.0	.0	2	0025	294	0.	.0	.0
1	0750	95	37.	10.4	4.7	1	1610	195	0.	.0	.0	2	0030	295	0.	.0	.0
1	0755	96	36.	10.1	4.6	1	1615	196	0.	.0	.0	2	0035	296	0.	.0	.0
1	0800	97	36.	9.9	4.5	1	1620	197	0.	.0	.0	2	0040	297	0.	.0	.0
1	0805	98	36.	9.6	4.4	1	1625	198	0.	.0	.0	2	0045	298	0.	.0	.0
1	0810	99	35.	9.4	4.4	1	1630	199	0.	.0	.0	2	0050	299	0.	.0	.0
1	0815	100	35.	9.1	4.3	1	1635	200	0.	.0	.0	2	0055	300	0.	.0	.0

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)					
47.	5.42	(CFS)	39.	14.	14.	14.
		(INCHES)	.940	1.377	1.377	1.377
		(AC-FT)	20.	29.	29.	29.

PEAK STORAGE	TIME		MAXIMUM AVERAGE STORAGE			
			6-HR	24-HR	72-HR	24.92-HR
(AC-FT)	(HR)					
17.	5.42		12.	3.	3.	3.

PEAK STAGE	TIME		MAXIMUM AVERAGE STAGE			
			6-HR	24-HR	72-HR	24.92-HR
(FEET)	(HR)					
6.29	5.42		5.07	1.74	1.68	1.68

CUMULATIVE AREA = .39 SQ MI

HYDROGRAPH AT STATION DET3
PLAN 1, RATIO = .79

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	.0	1		0820	101	31.	7.1	3.7	1		1640	201	0.	.0	.0
1		0005	2	0.	.0	.0	1		0825	102	31.	6.8	3.7	1		1645	202	0.	.0	.0
1		0010	3	0.	.0	.0	1		0830	103	30.	6.6	3.6	1		1650	203	0.	.0	.0
1		0015	4	0.	.0	.0	1		0835	104	30.	6.4	3.5	1		1655	204	0.	.0	.0
1		0020	5	0.	.0	.0	1		0840	105	30.	6.2	3.5	1		1700	205	0.	.0	.0
1		0025	6	0.	.0	.0	1		0845	106	29.	6.0	3.4	1		1705	206	0.	.0	.0
1		0030	7	1.	.0	.1	1		0850	107	29.	5.8	3.4	1		1710	207	0.	.0	.0
1		0035	8	2.	.0	.2	1		0855	108	29.	5.6	3.3	1		1715	208	0.	.0	.0
1		0040	9	3.	.0	.3	1		0900	109	28.	5.4	3.3	1		1720	209	0.	.0	.0
1		0045	10	3.	.0	.3	1		0905	110	28.	5.2	3.2	1		1725	210	0.	.0	.0
1		0050	11	3.	.1	.3	1		0910	111	28.	5.0	3.1	1		1730	211	0.	.0	.0
1		0055	12	4.	.1	.4	1		0915	112	27.	4.8	3.1	1		1735	212	0.	.0	.0
1		0100	13	4.	.1	.4	1		0920	113	27.	4.7	3.0	1		1740	213	0.	.0	.0
1		0105	14	4.	.1	.4	1		0925	114	27.	4.5	3.0	1		1745	214	0.	.0	.0
1		0110	15	4.	.1	.4	1		0930	115	26.	4.3	2.9	1		1750	215	0.	.0	.0
1		0115	16	5.	.1	.4	1		0935	116	26.	4.1	2.9	1		1755	216	0.	.0	.0
1		0120	17	5.	.1	.5	1		0940	117	26.	3.9	2.8	1		1800	217	0.	.0	.0
1		0125	18	5.	.1	.5	1		0945	118	25.	3.8	2.8	1		1805	218	0.	.0	.0
1		0130	19	6.	.1	.6	1		0950	119	25.	3.6	2.7	1		1810	219	0.	.0	.0
1		0135	20	7.	.1	.7	1		0955	120	25.	3.4	2.7	1		1815	220	0.	.0	.0
1		0140	21	9.	.1	.9	1		1000	121	24.	3.2	2.6	1		1820	221	0.	.0	.0
1		0145	22	10.	.2	1.0	1		1005	122	24.	3.1	2.6	1		1825	222	0.	.0	.0
1		0150	23	11.	.2	1.0	1		1010	123	24.	2.9	2.5	1		1830	223	0.	.0	.0
1		0155	24	11.	.2	1.1	1		1015	124	24.	2.8	2.5	1		1835	224	0.	.0	.0
1		0200	25	12.	.3	1.2	1		1020	125	23.	2.6	2.5	1		1840	225	0.	.0	.0
1		0205	26	12.	.3	1.2	1		1025	126	23.	2.4	2.4	1		1845	226	0.	.0	.0
1		0210	27	13.	.4	1.3	1		1030	127	23.	2.3	2.4	1		1850	227	0.	.0	.0
1		0215	28	14.	.5	1.4	1		1035	128	22.	2.1	2.3	1		1855	228	0.	.0	.0
1		0220	29	15.	.5	1.4	1		1040	129	22.	2.0	2.3	1		1900	229	0.	.0	.0
1		0225	30	15.	.5	1.5	1		1045	130	22.	1.8	2.2	1		1905	230	0.	.0	.0
1		0230	31	15.	.6	1.5	1		1050	131	22.	1.7	2.2	1		1910	231	0.	.0	.0
1		0235	32	15.	.6	1.5	1		1055	132	21.	1.5	2.2	1		1915	232	0.	.0	.0
1		0240	33	15.	.6	1.5	1		1100	133	21.	1.4	2.1	1		1920	233	0.	.0	.0
1		0245	34	15.	.6	1.5	1		1105	134	21.	1.2	2.1	1		1925	234	0.	.0	.0
1		0250	35	16.	.6	1.5	1		1110	135	21.	1.1	2.0	1		1930	235	0.	.0	.0
1		0255	36	16.	.6	1.6	1		1115	136	20.	.9	2.0	1		1935	236	0.	.0	.0
1		0300	37	17.	.7	1.7	1		1120	137	18.	.8	1.8	1		1940	237	0.	.0	.0
1		0305	38	19.	.8	1.8	1		1125	138	17.	.7	1.6	1		1945	238	0.	.0	.0
1		0310	39	21.	1.0	2.0	1		1130	139	15.	.6	1.5	1		1950	239	0.	.0	.0
1		0315	40	21.	1.3	2.1	1		1135	140	14.	.5	1.4	1		1955	240	0.	.0	.0
1		0320	41	22.	1.8	2.2	1		1140	141	13.	.4	1.3	1		2000	241	0.	.0	.0
1		0325	42	23.	2.3	2.4	1		1145	142	12.	.3	1.2	1		2005	242	0.	.0	.0
1		0330	43	24.	3.1	2.6	1		1150	143	11.	.2	1.1	1		2010	243	0.	.0	.0
1		0335	44	26.	4.1	2.9	1		1155	144	9.	.1	.9	1		2015	244	0.	.0	.0
1		0340	45	28.	5.3	3.2	1		1200	145	6.	.1	.6	1		2020	245	0.	.0	.0
1		0345	46	30.	6.5	3.6	1		1205	146	4.	.1	.4	1		2025	246	0.	.0	.0
1		0350	47	32.	7.6	3.9	1		1210	147	3.	.0	.2	1		2030	247	0.	.0	.0
1		0355	48	34.	8.5	4.1	1		1215	148	2.	.0	.2	1		2035	248	0.	.0	.0
1		0400	49	35.	9.3	4.4	1		1220	149	1.	.0	.1	1		2040	249	0.	.0	.0
1		0405	50	36.	10.0	4.5	1		1225	150	1.	.0	.1	1		2045	250	0.	.0	.0
1		0410	51	37.	10.5	4.7	1		1230	151	0.	.0	.0	1		2050	251	0.	.0	.0
1		0415	52	38.	10.8	4.8	1		1235	152	0.	.0	.0	1		2055	252	0.	.0	.0
1		0420	53	38.	11.1	4.9	1		1240	153	0.	.0	.0	1		2100	253	0.	.0	.0
1		0425	54	39.	11.3	4.9	1		1245	154	0.	.0	.0	1		2105	254	0.	.0	.0

1	0430	55	39.	11.5	5.0	1	1250	155	0.	.0	.0	1	2110	255	0.	.0	.0
1	0435	56	39.	11.7	5.0	1	1255	156	0.	.0	.0	1	2115	256	0.	.0	.0
1	0440	57	39.	11.9	5.1	1	1300	157	0.	.0	.0	1	2120	257	0.	.0	.0
1	0445	58	40.	12.2	5.2	1	1305	158	0.	.0	.0	1	2125	258	0.	.0	.0
1	0450	59	41.	12.6	5.3	1	1310	159	0.	.0	.0	1	2130	259	0.	.0	.0
1	0455	60	42.	13.0	5.4	1	1315	160	0.	.0	.0	1	2135	260	0.	.0	.0
1	0500	61	42.	13.5	5.5	1	1320	161	0.	.0	.0	1	2140	261	0.	.0	.0
1	0505	62	43.	14.0	5.7	1	1325	162	0.	.0	.0	1	2145	262	0.	.0	.0
1	0510	63	44.	14.4	5.8	1	1330	163	0.	.0	.0	1	2150	263	0.	.0	.0
1	0515	64	44.	14.6	5.9	1	1335	164	0.	.0	.0	1	2155	264	0.	.0	.0
1	0520	65	44.	14.7	5.9	1	1340	165	0.	.0	.0	1	2200	265	0.	.0	.0
1	0525	66	45.	14.8	5.9	1	1345	166	0.	.0	.0	1	2205	266	0.	.0	.0
1	0530	67	44.	14.7	5.9	1	1350	167	0.	.0	.0	1	2210	267	0.	.0	.0
1	0535	68	44.	14.6	5.9	1	1355	168	0.	.0	.0	1	2215	268	0.	.0	.0
1	0540	69	44.	14.5	5.8	1	1400	169	0.	.0	.0	1	2220	269	0.	.0	.0
1	0545	70	44.	14.3	5.8	1	1405	170	0.	.0	.0	1	2225	270	0.	.0	.0
1	0550	71	43.	14.2	5.7	1	1410	171	0.	.0	.0	1	2230	271	0.	.0	.0
1	0555	72	43.	14.0	5.7	1	1415	172	0.	.0	.0	1	2235	272	0.	.0	.0
1	0600	73	43.	13.8	5.6	1	1420	173	0.	.0	.0	1	2240	273	0.	.0	.0
1	0605	74	42.	13.6	5.6	1	1425	174	0.	.0	.0	1	2245	274	0.	.0	.0
1	0610	75	42.	13.4	5.5	1	1430	175	0.	.0	.0	1	2250	275	0.	.0	.0
1	0615	76	42.	13.1	5.4	1	1435	176	0.	.0	.0	1	2255	276	0.	.0	.0
1	0620	77	41.	12.9	5.4	1	1440	177	0.	.0	.0	1	2300	277	0.	.0	.0
1	0625	78	41.	12.6	5.3	1	1445	178	0.	.0	.0	1	2305	278	0.	.0	.0
1	0630	79	40.	12.4	5.2	1	1450	179	0.	.0	.0	1	2310	279	0.	.0	.0
1	0635	80	40.	12.1	5.1	1	1455	180	0.	.0	.0	1	2315	280	0.	.0	.0
1	0640	81	39.	11.9	5.1	1	1500	181	0.	.0	.0	1	2320	281	0.	.0	.0
1	0645	82	39.	11.6	5.0	1	1505	182	0.	.0	.0	1	2325	282	0.	.0	.0
1	0650	83	39.	11.3	4.9	1	1510	183	0.	.0	.0	1	2330	283	0.	.0	.0
1	0655	84	38.	11.1	4.9	1	1515	184	0.	.0	.0	1	2335	284	0.	.0	.0
1	0700	85	38.	10.8	4.8	1	1520	185	0.	.0	.0	1	2340	285	0.	.0	.0
1	0705	86	37.	10.6	4.7	1	1525	186	0.	.0	.0	1	2345	286	0.	.0	.0
1	0710	87	37.	10.3	4.6	1	1530	187	0.	.0	.0	1	2350	287	0.	.0	.0
1	0715	88	36.	10.1	4.6	1	1535	188	0.	.0	.0	1	2355	288	0.	.0	.0
1	0720	89	36.	9.8	4.5	1	1540	189	0.	.0	.0	2	0000	289	0.	.0	.0
1	0725	90	35.	9.6	4.4	1	1545	190	0.	.0	.0	2	0005	290	0.	.0	.0
1	0730	91	35.	9.3	4.4	1	1550	191	0.	.0	.0	2	0010	291	0.	.0	.0
1	0735	92	35.	9.1	4.3	1	1555	192	0.	.0	.0	2	0015	292	0.	.0	.0
1	0740	93	34.	8.8	4.2	1	1600	193	0.	.0	.0	2	0020	293	0.	.0	.0
1	0745	94	34.	8.6	4.2	1	1605	194	0.	.0	.0	2	0025	294	0.	.0	.0
1	0750	95	33.	8.4	4.1	1	1610	195	0.	.0	.0	2	0030	295	0.	.0	.0
1	0755	96	33.	8.2	4.0	1	1615	196	0.	.0	.0	2	0035	296	0.	.0	.0
1	0800	97	33.	7.9	4.0	1	1620	197	0.	.0	.0	2	0040	297	0.	.0	.0
1	0805	98	32.	7.7	3.9	1	1625	198	0.	.0	.0	2	0045	298	0.	.0	.0
1	0810	99	32.	7.5	3.8	1	1630	199	0.	.0	.0	2	0050	299	0.	.0	.0
1	0815	100	31.	7.3	3.8	1	1635	200	0.	.0	.0	2	0055	300	0.	.0	.0

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)					
		(CFS)				
45.	5.42		36.	13.	12.	12.
		(INCHES)	.862	1.203	1.203	1.203
		(AC-FT)	18.	25.	25.	25.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
(AC-FT)	(HR)				
15.	5.42	10.	3.	3.	3.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
(FEET)	(HR)				
5.89	5.42	4.54	1.50	1.44	1.44

CUMULATIVE AREA = .39 SQ MI

HYDROGRAPH AT STATION DET3
PLAN 1, RATIO = .74

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	.0	1		0820	101	29.	5.8	3.4	1		1640	201	0.	.0	.0
1		0005	2	0.	.0	.0	1		0825	102	29.	5.6	3.3	1		1645	202	0.	.0	.0
1		0010	3	0.	.0	.0	1		0830	103	28.	5.4	3.3	1		1650	203	0.	.0	.0
1		0015	4	0.	.0	.0	1		0835	104	28.	5.2	3.2	1		1655	204	0.	.0	.0
1		0020	5	0.	.0	.0	1		0840	105	28.	5.1	3.1	1		1700	205	0.	.0	.0
1		0025	6	0.	.0	.0	1		0845	106	27.	4.9	3.1	1		1705	206	0.	.0	.0
1		0030	7	1.	.0	.1	1		0850	107	27.	4.7	3.0	1		1710	207	0.	.0	.0
1		0035	8	2.	.0	.2	1		0855	108	27.	4.5	3.0	1		1715	208	0.	.0	.0
1		0040	9	2.	.0	.2	1		0900	109	26.	4.3	2.9	1		1720	209	0.	.0	.0
1		0045	10	2.	.0	.2	1		0905	110	26.	4.1	2.9	1		1725	210	0.	.0	.0
1		0050	11	2.	.0	.2	1		0910	111	26.	4.0	2.8	1		1730	211	0.	.0	.0
1		0055	12	3.	.0	.3	1		0915	112	25.	3.8	2.8	1		1735	212	0.	.0	.0
1		0100	13	3.	.0	.3	1		0920	113	25.	3.6	2.7	1		1740	213	0.	.0	.0
1		0105	14	3.	.0	.3	1		0925	114	25.	3.4	2.7	1		1745	214	0.	.0	.0
1		0110	15	3.	.1	.3	1		0930	115	24.	3.3	2.6	1		1750	215	0.	.0	.0
1		0115	16	3.	.1	.3	1		0935	116	24.	3.1	2.6	1		1755	216	0.	.0	.0
1		0120	17	4.	.1	.4	1		0940	117	24.	2.9	2.6	1		1800	217	0.	.0	.0
1		0125	18	4.	.1	.4	1		0945	118	24.	2.8	2.5	1		1805	218	0.	.0	.0
1		0130	19	5.	.1	.5	1		0950	119	23.	2.6	2.5	1		1810	219	0.	.0	.0
1		0135	20	6.	.1	.6	1		0955	120	23.	2.4	2.4	1		1815	220	0.	.0	.0
1		0140	21	7.	.1	.7	1		1000	121	23.	2.3	2.4	1		1820	221	0.	.0	.0
1		0145	22	9.	.1	.8	1		1005	122	22.	2.1	2.3	1		1825	222	0.	.0	.0
1		0150	23	10.	.2	1.0	1		1010	123	22.	2.0	2.3	1		1830	223	0.	.0	.0
1		0155	24	10.	.2	1.0	1		1015	124	22.	1.8	2.2	1		1835	224	0.	.0	.0
1		0200	25	11.	.2	1.1	1		1020	125	22.	1.7	2.2	1		1840	225	0.	.0	.0
1		0205	26	11.	.3	1.1	1		1025	126	21.	1.5	2.2	1		1845	226	0.	.0	.0
1		0210	27	12.	.3	1.2	1		1030	127	21.	1.4	2.1	1		1850	227	0.	.0	.0
1		0215	28	13.	.3	1.2	1		1035	128	21.	1.2	2.1	1		1855	228	0.	.0	.0
1		0220	29	13.	.4	1.3	1		1040	129	21.	1.1	2.0	1		1900	229	0.	.0	.0
1		0225	30	13.	.4	1.3	1		1045	130	20.	1.0	2.0	1		1905	230	0.	.0	.0
1		0230	31	14.	.4	1.3	1		1050	131	18.	.8	1.8	1		1910	231	0.	.0	.0
1		0235	32	14.	.4	1.3	1		1055	132	17.	.7	1.7	1		1915	232	0.	.0	.0
1		0240	33	14.	.4	1.3	1		1100	133	16.	.6	1.5	1		1920	233	0.	.0	.0
1		0245	34	14.	.4	1.3	1		1105	134	14.	.5	1.4	1		1925	234	0.	.0	.0
1		0250	35	14.	.4	1.3	1		1110	135	13.	.4	1.3	1		1930	235	0.	.0	.0
1		0255	36	14.	.5	1.4	1		1115	136	12.	.3	1.2	1		1935	236	0.	.0	.0
1		0300	37	15.	.5	1.5	1		1120	137	11.	.2	1.1	1		1940	237	0.	.0	.0
1		0305	38	16.	.7	1.6	1		1125	138	9.	.2	.9	1		1945	238	0.	.0	.0
1		0310	39	19.	.8	1.8	1		1130	139	6.	.1	.6	1		1950	239	0.	.0	.0
1		0315	40	21.	1.1	2.0	1		1135	140	4.	.1	.4	1		1955	240	0.	.0	.0
1		0320	41	21.	1.5	2.1	1		1140	141	3.	.0	.3	1		2000	241	0.	.0	.0
1		0325	42	22.	2.0	2.3	1		1145	142	2.	.0	.2	1		2005	242	0.	.0	.0
1		0330	43	23.	2.6	2.5	1		1150	143	1.	.0	.1	1		2010	243	0.	.0	.0
1		0335	44	25.	3.5	2.7	1		1155	144	1.	.0	.1	1		2015	244	0.	.0	.0
1		0340	45	27.	4.6	3.0	1		1200	145	0.	.0	.0	1		2020	245	0.	.0	.0
1		0345	46	29.	5.6	3.3	1		1205	146	0.	.0	.0	1		2025	246	0.	.0	.0
1		0350	47	30.	6.6	3.6	1		1210	147	0.	.0	.0	1		2030	247	0.	.0	.0
1		0355	48	32.	7.5	3.8	1		1215	148	0.	.0	.0	1		2035	248	0.	.0	.0
1		0400	49	33.	8.2	4.0	1		1220	149	0.	.0	.0	1		2040	249	0.	.0	.0
1		0405	50	34.	8.7	4.2	1		1225	150	0.	.0	.0	1		2045	250	0.	.0	.0
1		0410	51	35.	9.2	4.3	1		1230	151	0.	.0	.0	1		2050	251	0.	.0	.0
1		0415	52	35.	9.5	4.4	1		1235	152	0.	.0	.0	1		2055	252	0.	.0	.0
1		0420	53	36.	9.8	4.5	1		1240	153	0.	.0	.0	1		2100	253	0.	.0	.0
1		0425	54	36.	10.0	4.5	1		1245	154	0.	.0	.0	1		2105	254	0.	.0	.0
1		0430	55	36.	10.1	4.6	1		1250	155	0.	.0	.0	1		2110	255	0.	.0	.0
1		0435	56	37.	10.2	4.6	1		1255	156	0.	.0	.0	1		2115	256	0.	.0	.0
1		0440	57	37.	10.4	4.7	1		1300	157	0.	.0	.0	1		2120	257	0.	.0	.0
1		0445	58	37.	10.7	4.7	1		1305	158	0.	.0	.0	1		2125	258	0.	.0	.0

1	0450	59	38.	11.1	4.8	*	1	1310	159	0.	.0	.0	*	1	2130	259	0.	.0	.0
1	0455	60	39.	11.5	5.0	*	1	1315	160	0.	.0	.0	*	1	2135	260	0.	.0	.0
1	0500	61	40.	11.9	5.1	*	1	1320	161	0.	.0	.0	*	1	2140	261	0.	.0	.0
1	0505	62	40.	12.4	5.2	*	1	1325	162	0.	.0	.0	*	1	2145	262	0.	.0	.0
1	0510	63	41.	12.7	5.3	*	1	1330	163	0.	.0	.0	*	1	2150	263	0.	.0	.0
1	0515	64	41.	12.9	5.4	*	1	1335	164	0.	.0	.0	*	1	2155	264	0.	.0	.0
1	0520	65	41.	13.0	5.4	*	1	1340	165	0.	.0	.0	*	1	2200	265	0.	.0	.0
1	0525	66	42.	13.0	5.4	*	1	1345	166	0.	.0	.0	*	1	2205	266	0.	.0	.0
1	0530	67	41.	13.0	5.4	*	1	1350	167	0.	.0	.0	*	1	2210	267	0.	.0	.0
1	0535	68	41.	12.9	5.4	*	1	1355	168	0.	.0	.0	*	1	2215	268	0.	.0	.0
1	0540	69	41.	12.8	5.3	*	1	1400	169	0.	.0	.0	*	1	2220	269	0.	.0	.0
1	0545	70	41.	12.6	5.3	*	1	1405	170	0.	.0	.0	*	1	2225	270	0.	.0	.0
1	0550	71	40.	12.5	5.2	*	1	1410	171	0.	.0	.0	*	1	2230	271	0.	.0	.0
1	0555	72	40.	12.3	5.2	*	1	1415	172	0.	.0	.0	*	1	2235	272	0.	.0	.0
1	0600	73	40.	12.1	5.1	*	1	1420	173	0.	.0	.0	*	1	2240	273	0.	.0	.0
1	0605	74	40.	11.9	5.1	*	1	1425	174	0.	.0	.0	*	1	2245	274	0.	.0	.0
1	0610	75	39.	11.7	5.0	*	1	1430	175	0.	.0	.0	*	1	2250	275	0.	.0	.0
1	0615	76	39.	11.5	5.0	*	1	1435	176	0.	.0	.0	*	1	2255	276	0.	.0	.0
1	0620	77	38.	11.3	4.9	*	1	1440	177	0.	.0	.0	*	1	2300	277	0.	.0	.0
1	0625	78	38.	11.0	4.8	*	1	1445	178	0.	.0	.0	*	1	2305	278	0.	.0	.0
1	0630	79	38.	10.8	4.8	*	1	1450	179	0.	.0	.0	*	1	2310	279	0.	.0	.0
1	0635	80	37.	10.6	4.7	*	1	1455	180	0.	.0	.0	*	1	2315	280	0.	.0	.0
1	0640	81	37.	10.3	4.6	*	1	1500	181	0.	.0	.0	*	1	2320	281	0.	.0	.0
1	0645	82	36.	10.1	4.6	*	1	1505	182	0.	.0	.0	*	1	2325	282	0.	.0	.0
1	0650	83	36.	9.8	4.5	*	1	1510	183	0.	.0	.0	*	1	2330	283	0.	.0	.0
1	0655	84	35.	9.6	4.4	*	1	1515	184	0.	.0	.0	*	1	2335	284	0.	.0	.0
1	0700	85	35.	9.3	4.4	*	1	1520	185	0.	.0	.0	*	1	2340	285	0.	.0	.0
1	0705	86	35.	9.1	4.3	*	1	1525	186	0.	.0	.0	*	1	2345	286	0.	.0	.0
1	0710	87	34.	8.9	4.2	*	1	1530	187	0.	.0	.0	*	1	2350	287	0.	.0	.0
1	0715	88	34.	8.6	4.2	*	1	1535	188	0.	.0	.0	*	1	2355	288	0.	.0	.0
1	0720	89	33.	8.4	4.1	*	1	1540	189	0.	.0	.0	*	2	0000	289	0.	.0	.0
1	0725	90	33.	8.2	4.0	*	1	1545	190	0.	.0	.0	*	2	0005	290	0.	.0	.0
1	0730	91	33.	7.9	4.0	*	1	1550	191	0.	.0	.0	*	2	0010	291	0.	.0	.0
1	0735	92	32.	7.7	3.9	*	1	1555	192	0.	.0	.0	*	2	0015	292	0.	.0	.0
1	0740	93	32.	7.5	3.8	*	1	1600	193	0.	.0	.0	*	2	0020	293	0.	.0	.0
1	0745	94	31.	7.3	3.8	*	1	1605	194	0.	.0	.0	*	2	0025	294	0.	.0	.0
1	0750	95	31.	7.1	3.7	*	1	1610	195	0.	.0	.0	*	2	0030	295	0.	.0	.0
1	0755	96	31.	6.9	3.7	*	1	1615	196	0.	.0	.0	*	2	0035	296	0.	.0	.0
1	0800	97	30.	6.6	3.6	*	1	1620	197	0.	.0	.0	*	2	0040	297	0.	.0	.0
1	0805	98	30.	6.4	3.5	*	1	1625	198	0.	.0	.0	*	2	0045	298	0.	.0	.0
1	0810	99	30.	6.2	3.5	*	1	1630	199	0.	.0	.0	*	2	0050	299	0.	.0	.0
1	0815	100	29.	6.0	3.4	*	1	1635	200	0.	.0	.0	*	2	0055	300	0.	.0	.0

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)	(CFS)				
42.	5.42		34.	11.	11.	11.
		(INCHES)	.805	1.081	1.081	1.081
		(AC-FT)	17.	22.	22.	22.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
(AC-FT)	(HR)				
13.	5.42	9.	2.	2.	2.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
(FEET)	(HR)				
5.41	5.42	4.15	1.33	1.28	1.28

CUMULATIVE AREA = .39 SQ MI

HYDROGRAPH AT STATION DET3
PLAN 1, RATIO = .68

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	.0	1		0820	101	26.	4.4	3.0	1		1640	201	0.	.0	.0
1		0005	2	0.	.0	.0	1		0825	102	26.	4.2	2.9	1		1645	202	0.	.0	.0
1		0010	3	0.	.0	.0	1		0830	103	26.	4.0	2.9	1		1650	203	0.	.0	.0
1		0015	4	0.	.0	.0	1		0835	104	25.	3.9	2.8	1		1655	204	0.	.0	.0
1		0020	5	0.	.0	.0	1		0840	105	25.	3.7	2.8	1		1700	205	0.	.0	.0
1		0025	6	0.	.0	.0	1		0845	106	25.	3.5	2.7	1		1705	206	0.	.0	.0
1		0030	7	1.	.0	.1	1		0850	107	25.	3.3	2.7	1		1710	207	0.	.0	.0
1		0035	8	1.	.0	.1	1		0855	108	24.	3.2	2.6	1		1715	208	0.	.0	.0
1		0040	9	2.	.0	.2	1		0900	109	24.	3.0	2.6	1		1720	209	0.	.0	.0
1		0045	10	2.	.0	.2	1		0905	110	24.	2.8	2.5	1		1725	210	0.	.0	.0
1		0050	11	2.	.0	.2	1		0910	111	23.	2.7	2.5	1		1730	211	0.	.0	.0
1		0055	12	2.	.0	.2	1		0915	112	23.	2.5	2.4	1		1735	212	0.	.0	.0
1		0100	13	2.	.0	.2	1		0920	113	23.	2.4	2.4	1		1740	213	0.	.0	.0
1		0105	14	2.	.0	.2	1		0925	114	23.	2.2	2.3	1		1745	214	0.	.0	.0
1		0110	15	2.	.0	.2	1		0930	115	22.	2.0	2.3	1		1750	215	0.	.0	.0
1		0115	16	2.	.0	.2	1		0935	116	22.	1.9	2.3	1		1755	216	0.	.0	.0
1		0120	17	2.	.0	.2	1		0940	117	22.	1.7	2.2	1		1800	217	0.	.0	.0
1		0125	18	3.	.0	.3	1		0945	118	22.	1.6	2.2	1		1805	218	0.	.0	.0
1		0130	19	3.	.1	.3	1		0950	119	21.	1.4	2.1	1		1810	219	0.	.0	.0
1		0135	20	4.	.1	.4	1		0955	120	21.	1.3	2.1	1		1815	220	0.	.0	.0
1		0140	21	5.	.1	.5	1		1000	121	21.	1.2	2.1	1		1820	221	0.	.0	.0
1		0145	22	6.	.1	.6	1		1005	122	21.	1.0	2.0	1		1825	222	0.	.0	.0
1		0150	23	7.	.1	.7	1		1010	123	19.	.9	1.9	1		1830	223	0.	.0	.0
1		0155	24	9.	.1	.8	1		1015	124	18.	.8	1.7	1		1835	224	0.	.0	.0
1		0200	25	10.	.2	.9	1		1020	125	16.	.6	1.6	1		1840	225	0.	.0	.0
1		0205	26	10.	.2	1.0	1		1025	126	15.	.5	1.4	1		1845	226	0.	.0	.0
1		0210	27	11.	.2	1.1	1		1030	127	14.	.4	1.3	1		1850	227	0.	.0	.0
1		0215	28	11.	.2	1.1	1		1035	128	12.	.3	1.2	1		1855	228	0.	.0	.0
1		0220	29	11.	.3	1.1	1		1040	129	11.	.3	1.1	1		1900	229	0.	.0	.0
1		0225	30	12.	.3	1.1	1		1045	130	10.	.2	1.0	1		1905	230	0.	.0	.0
1		0230	31	12.	.3	1.1	1		1050	131	7.	.1	.7	1		1910	231	0.	.0	.0
1		0235	32	12.	.3	1.1	1		1055	132	5.	.1	.5	1		1915	232	0.	.0	.0
1		0240	33	12.	.3	1.1	1		1100	133	3.	.1	.3	1		1920	233	0.	.0	.0
1		0245	34	12.	.3	1.1	1		1105	134	2.	.0	.2	1		1925	234	0.	.0	.0
1		0250	35	12.	.3	1.1	1		1110	135	1.	.0	.1	1		1930	235	0.	.0	.0
1		0255	36	12.	.3	1.2	1		1115	136	1.	.0	.1	1		1935	236	0.	.0	.0
1		0300	37	13.	.4	1.2	1		1120	137	1.	.0	.1	1		1940	237	0.	.0	.0
1		0305	38	14.	.5	1.4	1		1125	138	0.	.0	.0	1		1945	238	0.	.0	.0
1		0310	39	16.	.6	1.5	1		1130	139	0.	.0	.0	1		1950	239	0.	.0	.0
1		0315	40	18.	.8	1.8	1		1135	140	0.	.0	.0	1		1955	240	0.	.0	.0
1		0320	41	21.	1.1	2.0	1		1140	141	0.	.0	.0	1		2000	241	0.	.0	.0
1		0325	42	21.	1.5	2.2	1		1145	142	0.	.0	.0	1		2005	242	0.	.0	.0
1		0330	43	22.	2.1	2.3	1		1150	143	0.	.0	.0	1		2010	243	0.	.0	.0
1		0335	44	24.	2.9	2.5	1		1155	144	0.	.0	.0	1		2015	244	0.	.0	.0
1		0340	45	25.	3.8	2.8	1		1200	145	0.	.0	.0	1		2020	245	0.	.0	.0
1		0345	46	27.	4.7	3.0	1		1205	146	0.	.0	.0	1		2025	246	0.	.0	.0
1		0350	47	28.	5.5	3.3	1		1210	147	0.	.0	.0	1		2030	247	0.	.0	.0
1		0355	48	30.	6.2	3.5	1		1215	148	0.	.0	.0	1		2035	248	0.	.0	.0
1		0400	49	31.	6.8	3.7	1		1220	149	0.	.0	.0	1		2040	249	0.	.0	.0
1		0405	50	32.	7.3	3.8	1		1225	150	0.	.0	.0	1		2045	250	0.	.0	.0
1		0410	51	32.	7.7	3.9	1		1230	151	0.	.0	.0	1		2050	251	0.	.0	.0
1		0415	52	33.	8.0	4.0	1		1235	152	0.	.0	.0	1		2055	252	0.	.0	.0
1		0420	53	33.	8.2	4.0	1		1240	153	0.	.0	.0	1		2100	253	0.	.0	.0
1		0425	54	33.	8.4	4.1	1		1245	154	0.	.0	.0	1		2105	254	0.	.0	.0
1		0430	55	34.	8.5	4.1	1		1250	155	0.	.0	.0	1		2110	255	0.	.0	.0
1		0435	56	34.	8.6	4.2	1		1255	156	0.	.0	.0	1		2115	256	0.	.0	.0
1		0440	57	34.	8.8	4.2	1		1300	157	0.	.0	.0	1		2120	257	0.	.0	.0
1		0445	58	34.	9.0	4.3	1		1305	158	0.	.0	.0	1		2125	258	0.	.0	.0
1		0450	59	35.	9.3	4.3	1		1310	159	0.	.0	.0	1		2130	259	0.	.0	.0
1		0455	60	36.	9.7	4.5	1		1315	160	0.	.0	.0	1		2135	260	0.	.0	.0
1		0500	61	36.	10.1	4.6	1		1320	161	0.	.0	.0	1		2140	261	0.	.0	.0
1		0505	62	37.	10.4	4.7	1		1325	162	0.	.0	.0	1		2145	262	0.	.0	.0

1	0510	63	37.	10.7	4.8	*	1	1330	163	0.	.0	.0	*	1	2150	263	0.	.0	.0
1	0515	64	38.	10.9	4.8	*	1	1335	164	0.	.0	.0	*	1	2155	264	0.	.0	.0
1	0520	65	38.	11.0	4.8	*	1	1340	165	0.	.0	.0	*	1	2200	265	0.	.0	.0
1	0525	66	38.	11.0	4.8	*	1	1345	166	0.	.0	.0	*	1	2205	266	0.	.0	.0
1	0530	67	38.	11.0	4.8	*	1	1350	167	0.	.0	.0	*	1	2210	267	0.	.0	.0
1	0535	68	38.	10.9	4.8	*	1	1355	168	0.	.0	.0	*	1	2215	268	0.	.0	.0
1	0540	69	38.	10.8	4.8	*	1	1400	169	0.	.0	.0	*	1	2220	269	0.	.0	.0
1	0545	70	37.	10.6	4.7	*	1	1405	170	0.	.0	.0	*	1	2225	270	0.	.0	.0
1	0550	71	37.	10.5	4.7	*	1	1410	171	0.	.0	.0	*	1	2230	271	0.	.0	.0
1	0555	72	37.	10.3	4.6	*	1	1415	172	0.	.0	.0	*	1	2235	272	0.	.0	.0
1	0600	73	36.	10.1	4.6	*	1	1420	173	0.	.0	.0	*	1	2240	273	0.	.0	.0
1	0605	74	36.	9.9	4.5	*	1	1425	174	0.	.0	.0	*	1	2245	274	0.	.0	.0
1	0610	75	36.	9.8	4.5	*	1	1430	175	0.	.0	.0	*	1	2250	275	0.	.0	.0
1	0615	76	35.	9.6	4.4	*	1	1435	176	0.	.0	.0	*	1	2255	276	0.	.0	.0
1	0620	77	35.	9.4	4.4	*	1	1440	177	0.	.0	.0	*	1	2300	277	0.	.0	.0
1	0625	78	35.	9.1	4.3	*	1	1445	178	0.	.0	.0	*	1	2305	278	0.	.0	.0
1	0630	79	34.	8.9	4.2	*	1	1450	179	0.	.0	.0	*	1	2310	279	0.	.0	.0
1	0635	80	34.	8.7	4.2	*	1	1455	180	0.	.0	.0	*	1	2315	280	0.	.0	.0
1	0640	81	34.	8.5	4.1	*	1	1500	181	0.	.0	.0	*	1	2320	281	0.	.0	.0
1	0645	82	33.	8.3	4.1	*	1	1505	182	0.	.0	.0	*	1	2325	282	0.	.0	.0
1	0650	83	33.	8.0	4.0	*	1	1510	183	0.	.0	.0	*	1	2330	283	0.	.0	.0
1	0655	84	32.	7.8	3.9	*	1	1515	184	0.	.0	.0	*	1	2335	284	0.	.0	.0
1	0700	85	32.	7.6	3.9	*	1	1520	185	0.	.0	.0	*	1	2340	285	0.	.0	.0
1	0705	86	32.	7.4	3.8	*	1	1525	186	0.	.0	.0	*	1	2345	286	0.	.0	.0
1	0710	87	31.	7.2	3.7	*	1	1530	187	0.	.0	.0	*	1	2350	287	0.	.0	.0
1	0715	88	31.	6.9	3.7	*	1	1535	188	0.	.0	.0	*	1	2355	288	0.	.0	.0
1	0720	89	31.	6.7	3.6	*	1	1540	189	0.	.0	.0	*	2	0000	289	0.	.0	.0
1	0725	90	30.	6.5	3.6	*	1	1545	190	0.	.0	.0	*	2	0005	290	0.	.0	.0
1	0730	91	30.	6.3	3.5	*	1	1550	191	0.	.0	.0	*	2	0010	291	0.	.0	.0
1	0735	92	29.	6.1	3.5	*	1	1555	192	0.	.0	.0	*	2	0015	292	0.	.0	.0
1	0740	93	29.	5.9	3.4	*	1	1600	193	0.	.0	.0	*	2	0020	293	0.	.0	.0
1	0745	94	29.	5.7	3.3	*	1	1605	194	0.	.0	.0	*	2	0025	294	0.	.0	.0
1	0750	95	28.	5.5	3.3	*	1	1610	195	0.	.0	.0	*	2	0030	295	0.	.0	.0
1	0755	96	28.	5.3	3.2	*	1	1615	196	0.	.0	.0	*	2	0035	296	0.	.0	.0
1	0800	97	28.	5.1	3.2	*	1	1620	197	0.	.0	.0	*	2	0040	297	0.	.0	.0
1	0805	98	27.	4.9	3.1	*	1	1625	198	0.	.0	.0	*	2	0045	298	0.	.0	.0
1	0810	99	27.	4.8	3.1	*	1	1630	199	0.	.0	.0	*	2	0050	299	0.	.0	.0
1	0815	100	27.	4.6	3.0	*	1	1635	200	0.	.0	.0	*	2	0055	300	0.	.0	.0

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 38.	5.42		31.	10.	9.	9.
		(INCHES)	.738	.938	.938	.938
		(AC-FT)	15.	20.	20.	20.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
11.	5.42	7.	2.	2.	2.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
4.83	5.42	3.70	1.13	1.09	1.09

CUMULATIVE AREA = .39 SQ MI

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PEAK FLOW AND STAGE (END-OF-PERIOD) SUMMARY FOR MULTIPLE PLAN-RATIO ECONOMIC COMPUTATIONS
FLOWS IN CUBIC FEET PER SECOND, AREA IN SQUARE MILES
TIME TO PEAK IN HOURS

OPERATION	STATION	AREA	PLAN		RATIOS APPLIED TO PRECIPITATION RATIO 1 .86	RATIO 2 .79	RATIO 3 .74	RATIO 4 .68
HYDROGRAPH AT	95-5	.03	1	FLOW	33.	30.	27.	24.
+				TIME	3.50	3.50	3.50	3.50
DIVERSION TO	DCHD1B	.03	1	FLOW	30.	27.	25.	22.
+				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT	DHD01B	.03	1	FLOW	3.	3.	3.	2.
+				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT	OFF8	.01	1	FLOW	13.	12.	11.	10.
+				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT	OFFY	.01	1	FLOW	13.	12.	11.	10.
+				TIME	3.50	3.50	3.50	3.50
3 COMBINED AT	CHD02B	.06	1	FLOW	29.	26.	24.	22.
+				TIME	3.50	3.50	3.50	3.50
DIVERSION TO	DCHD2B	.06	1	FLOW	29.	26.	24.	22.
+				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT	DHD02B	.06	1	FLOW	0.	0.	0.	0.
+				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT	WGED1A	.02	1	FLOW	20.	18.	16.	15.
+				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT	WGED1B	.04	1	FLOW	36.	32.	30.	27.
+				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT	STRT3	.00	1	FLOW	2.	2.	2.	2.
+				TIME	3.50	3.50	3.50	3.50
3 COMBINED AT	WPT49	.05	1	FLOW	58.	52.	48.	43.
+				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT	OFFW	.01	1	FLOW	13.	11.	10.	9.
+				TIME	3.50	3.50	3.50	3.50
3 COMBINED AT	CHD04B	.12	1	FLOW	71.	64.	59.	53.
+				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT	WBU3	.07	1	FLOW	70.	63.	59.	53.
+				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT	STRT2	.00	1	FLOW	5.	4.	4.	4.
+				TIME	3.50	3.50	3.50	3.50

HYDROGRAPH AT

+	GRAND3	.01	1	FLOW	11.	10.	10.	9.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	WBU2B	.02	1	FLOW	26.	23.	22.	20.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	WGC1	.02	1	FLOW	24.	22.	20.	18.
				TIME	3.50	3.50	3.50	3.50
5 COMBINED AT								
+	WPT48	.12	1	FLOW	135.	123.	114.	104.
				TIME	3.50	3.50	3.50	3.50
2 COMBINED AT								
+	CHD05B	.24	1	FLOW	206.	187.	173.	156.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	WBU1	.04	1	FLOW	41.	38.	35.	32.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	STRT1	.00	1	FLOW	6.	6.	5.	5.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	WBU2A	.05	1	FLOW	56.	51.	47.	43.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	WL2B	.06	1	FLOW	55.	49.	45.	40.
				TIME	3.58	3.58	3.58	3.58
HYDROGRAPH AT								
+	GRAND2	.00	1	FLOW	5.	4.	4.	4.
				TIME	3.58	3.58	3.58	3.58
5 COMBINED AT								
+	DUMMY	.16	1	FLOW	158.	143.	132.	118.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	HORSE3	.01	1	FLOW	15.	13.	13.	11.
				TIME	3.50	3.50	3.50	3.50
2 COMBINED AT								
+	WPT46	.17	1	FLOW	173.	156.	144.	130.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	OFF14	.01	1	FLOW	15.	14.	13.	11.
				TIME	3.50	3.50	3.50	3.50
3 COMBINED AT								
+	CHD06B	.43	1	FLOW	394.	357.	330.	298.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	95-9A	.01	1	FLOW	12.	11.	10.	9.
				TIME	3.50	3.50	3.50	3.50
2 COMBINED AT								
+	CHD07B	.44	1	FLOW	406.	368.	340.	307.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	OFF15	.03	1	FLOW	37.	33.	31.	28.
				TIME	3.50	3.50	3.50	3.50
2 COMBINED AT								
+	CHD7B2	.47	1	FLOW	443.	401.	371.	335.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	OFF17B	.01	1	FLOW	9.	8.	7.	7.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	OFF17A	.03	1	FLOW	30.	27.	25.	22.
				TIME	3.50	3.50	3.50	3.50
2 COMBINED AT								
+	COFF17	.04	1	FLOW	39.	35.	32.	28.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	ON1	.00	1	FLOW	4.	4.	4.	3.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	ON4A	.00	1	FLOW	5.	4.	4.	4.
				TIME	3.50	3.50	3.50	3.50
2 COMBINED AT								
+	C1	.01	1	FLOW	9.	8.	8.	7.
				TIME	3.50	3.50	3.50	3.50
DIVERSION TO								
+	DIV1	.01	1	FLOW	8.	7.	6.	6.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	D1	.01	1	FLOW	2.	2.	1.	1.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	ON5	.01	1	FLOW	6.	5.	5.	4.
				TIME	3.50	3.50	3.50	3.50
2 COMBINED AT								
+	C2	.01	1	FLOW	7.	7.	6.	5.
				TIME	3.50	3.50	3.50	3.50
DIVERSION TO								
+	DIV1A	.01	1	FLOW	7.	7.	6.	5.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	D1A	.01	1	FLOW	0.	0.	0.	0.
				TIME	.00	.00	.00	.00
HYDROGRAPH AT								
+	ON4B	.00	1	FLOW	3.	3.	3.	2.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	RET1	.00	1	FLOW	8.	7.	6.	6.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	ON6	.00	1	FLOW	4.	4.	4.	3.
				TIME	3.50	3.50	3.50	3.50
2 COMBINED AT								
+	C3	.00	1	FLOW	12.	11.	10.	9.

				TIME	3.50	3.50	3.50	3.50
DIVERSION TO								
+	DIV1B	.00	1	FLOW	12.	11.	10.	9.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	D1B	.00	1	FLOW	0.	0.	0.	0.
				TIME	.00	.00	.00	.00
HYDROGRAPH AT								
+	ON2	.00	1	FLOW	5.	5.	4.	4.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	ON3	.01	1	FLOW	7.	6.	6.	5.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	ON9	.00	1	FLOW	5.	4.	4.	3.
				TIME	3.50	3.50	3.50	3.50
3 COMBINED AT								
+	C4	.02	1	FLOW	17.	15.	14.	12.
				TIME	3.50	3.50	3.50	3.50
DIVERSION TO								
+	DIV2	.02	1	FLOW	14.	12.	11.	10.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	D2	.02	1	FLOW	3.	3.	2.	2.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	ON10	.00	1	FLOW	3.	3.	2.	2.
				TIME	3.50	3.50	3.50	3.50
2 COMBINED AT								
+	C5	.02	1	FLOW	6.	5.	5.	4.
				TIME	3.50	3.50	3.50	3.50
DIVERSION TO								
+	DIV3	.02	1	FLOW	5.	4.	4.	3.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	D3	.02	1	FLOW	1.	1.	1.	1.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	ON11	.00	1	FLOW	3.	3.	2.	2.
				TIME	3.50	3.50	3.50	3.50
2 COMBINED AT								
+	C6	.02	1	FLOW	4.	4.	3.	3.
				TIME	3.50	3.50	3.50	3.50
DIVERSION TO								
+	DIV1C	.02	1	FLOW	4.	4.	3.	3.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	D1C	.02	1	FLOW	0.	0.	0.	0.
				TIME	.00	.00	.00	.00
4 COMBINED AT								
+	CD1C	.04	1	FLOW	3.	3.	3.	2.
				TIME	3.50	3.50	3.50	3.50
ROUTED TO								
+	RCD1C	.04	1	FLOW	3.	3.	2.	2.
				TIME	3.75	3.75	3.83	3.83
DIVERSION TO								
+	DOFF23	.04	1	FLOW	3.	3.	2.	2.
				TIME	3.75	3.75	3.83	3.83
HYDROGRAPH AT								
+	DRCD1C	.04	1	FLOW	0.	0.	0.	0.
				TIME	.00	.00	.00	.00
HYDROGRAPH AT								
+	ON8	.00	1	FLOW	3.	3.	3.	2.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	RET2	.00	1	FLOW	14.	12.	11.	10.
				TIME	3.50	3.50	3.50	3.50
2 COMBINED AT								
+	C7	.00	1	FLOW	17.	15.	14.	12.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	RET3	.00	1	FLOW	5.	4.	4.	3.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	ON7	.01	1	FLOW	8.	7.	7.	6.
				TIME	3.50	3.50	3.50	3.50
3 COMBINED AT								
+	C8	.01	1	FLOW	30.	27.	24.	22.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	RET1A	.00	1	FLOW	7.	7.	6.	5.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	RET1B	.00	1	FLOW	12.	11.	10.	9.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	RET1C	.00	1	FLOW	4.	4.	3.	3.
				TIME	3.50	3.50	3.50	3.50
3 COMBINED AT								
+	C9	.00	1	FLOW	23.	21.	19.	17.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	ON2D	.01	1	FLOW	12.	11.	10.	9.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	ON5D	.00	1	FLOW	5.	4.	4.	4.
				TIME	3.50	3.50	3.50	3.50
2 COMBINED AT								
+	CP1	.01	1	FLOW	17.	16.	14.	13.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	ON3D	.00	1	FLOW	4.	4.	4.	3.
				TIME	3.50	3.50	3.50	3.50

+ 2 COMBINED AT	CP2	.02	1	FLOW	22.	20.	18.	16.
				TIME	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	ON1D	.01	1	FLOW	9.	8.	8.	7.
				TIME	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	ON4D	.00	1	FLOW	5.	4.	4.	4.
				TIME	3.50	3.50	3.50	3.50
+ 2 COMBINED AT	CP3	.01	1	FLOW	14.	13.	12.	11.
				TIME	3.50	3.50	3.50	3.50
+ 2 COMBINED AT	CP4	.03	1	FLOW	36.	32.	30.	27.
				TIME	3.50	3.50	3.50	3.50
+ 4 COMBINED AT	CENGCA	.08	1	FLOW	88.	80.	73.	66.
				TIME	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	WML4	.04	1	FLOW	39.	35.	33.	29.
				TIME	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	SHAUM1	.01	1	FLOW	8.	8.	7.	7.
				TIME	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	WML3A	.02	1	FLOW	22.	20.	19.	17.
				TIME	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	WML2	.09	1	FLOW	92.	84.	77.	70.
				TIME	3.50	3.50	3.50	3.50
+ 4 COMBINED AT	DUMMY	.15	1	FLOW	162.	147.	136.	123.
				TIME	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	EGAN1	.00	1	FLOW	6.	6.	5.	5.
				TIME	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	RACL1A	.01	1	FLOW	8.	7.	7.	6.
				TIME	3.50	3.50	3.50	3.50
+ 3 COMBINED AT	RA-EG	.16	1	FLOW	176.	160.	148.	134.
				TIME	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	WML1	.02	1	FLOW	28.	25.	23.	21.
				TIME	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	STRT4	.00	1	FLOW	4.	3.	3.	3.
				TIME	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	WL3A	.03	1	FLOW	30.	27.	24.	22.
				TIME	3.50	3.50	3.58	3.58
+ HYDROGRAPH AT	WSCHL1	.06	1	FLOW	60.	54.	50.	44.
				TIME	3.50	3.50	3.50	3.50
+ 5 COMBINED AT	DUMMY	.27	1	FLOW	298.	269.	249.	224.
				TIME	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	HUAL1	.01	1	FLOW	7.	6.	6.	5.
				TIME	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	RACL1B	.00	1	FLOW	6.	6.	5.	5.
				TIME	3.50	3.50	3.50	3.50
+ 3 COMBINED AT	RA-HU	.28	1	FLOW	311.	281.	259.	234.
				TIME	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	WL1	.11	1	FLOW	89.	80.	73.	64.
				TIME	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	WNVE1	.01	1	FLOW	8.	7.	6.	6.
				TIME	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	WL2A	.05	1	FLOW	44.	39.	36.	32.
				TIME	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	RACL1C	.01	1	FLOW	9.	8.	7.	7.
				TIME	3.50	3.50	3.50	3.50
+ 5 COMBINED AT	DUMMY	.45	1	FLOW	445.	401.	369.	331.
				TIME	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	GRAND1	.00	1	FLOW	3.	3.	3.	3.
				TIME	3.58	3.58	3.58	3.58
+ 2 COMBINED AT	CP26	.46	1	FLOW	449.	404.	372.	333.
				TIME	3.50	3.50	3.50	3.50
+ 2 COMBINED AT	CCP4	.54	1	FLOW	537.	483.	445.	399.
				TIME	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	OFF21B	.04	1	FLOW	44.	40.	37.	33.
				TIME	3.50	3.50	3.50	3.50
+ 2 COMBINED AT	COF21B	.58	1	FLOW	581.	523.	482.	432.
				TIME	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	ROFF23	.00	1	FLOW	3.	3.	2.	2.
				TIME	3.75	3.75	3.83	3.83
+ HYDROGRAPH AT	OFF23	.01	1	FLOW	10.	9.	8.	7.
				TIME	3.50	3.50	3.50	3.50

2 COMBINED AT								
+	COFF23	.01	1	FLOW	11.	10.	9.	8.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	NW29-C	.13	1	FLOW	117.	105.	97.	87.
				TIME	3.58	3.58	3.58	3.58
ROUTED TO								
+	RNW29C	.13	1	FLOW	113.	102.	93.	83.
				TIME	3.58	3.58	3.58	3.58
HYDROGRAPH AT								
+	NW71-W	.10	1	FLOW	91.	82.	75.	68.
				TIME	3.58	3.58	3.58	3.58
2 COMBINED AT								
+	CNW71W	.24	1	FLOW	205.	184.	169.	151.
				TIME	3.58	3.58	3.58	3.58
ROUTED TO								
+	RCNW71	.24	1	FLOW	201.	179.	164.	149.
				TIME	3.67	3.67	3.67	3.67
HYDROGRAPH AT								
+	NW71-E	.24	1	FLOW	148.	131.	118.	103.
				TIME	3.67	3.67	3.67	3.67
2 COMBINED AT								
+	CNW71E	.47	1	FLOW	350.	310.	282.	253.
				TIME	3.67	3.67	3.67	3.67
HYDROGRAPH AT								
+	GT1	.02	1	FLOW	23.	21.	20.	18.
				TIME	3.67	3.67	3.67	3.67
HYDROGRAPH AT								
+	OFFU	.04	1	FLOW	43.	39.	36.	33.
				TIME	3.50	3.50	3.50	3.50
3 COMBINED AT								
+	CP26WT	.54	1	FLOW	398.	354.	323.	290.
				TIME	3.67	3.67	3.67	3.67
5 COMBINED AT								
+	95STH	1.64	1	FLOW	1401.	1259.	1158.	1037.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	OFF21	.48	1	FLOW	272.	239.	217.	189.
				TIME	3.83	3.83	3.83	3.83
HYDROGRAPH AT								
+	OFF20	.33	1	FLOW	171.	149.	134.	117.
				TIME	3.83	3.83	3.83	3.83
HYDROGRAPH AT								
+	DB1	.02	1	FLOW	25.	22.	21.	19.
				TIME	3.58	3.58	3.58	3.58
3 COMBINED AT								
+	PT1	.84	1	FLOW	454.	399.	361.	315.
				TIME	3.83	3.83	3.83	3.83
ROUTED TO								
+	DET1	.84	1	FLOW	129.	120.	113.	105.
				TIME	5.50	5.50	5.50	5.42
			**	PEAK STAGES IN FEET **				
			1	STAGE	38.20	37.28	36.62	35.84
				TIME	5.50	5.50	5.50	5.42
DIVERSION TO								
+	DIV-1	.84	1	FLOW	59.	55.	52.	48.
				TIME	5.50	5.50	5.50	5.42
HYDROGRAPH AT								
+	DIV1	.84	1	FLOW	70.	65.	61.	57.
				TIME	5.50	5.50	5.50	5.42
HYDROGRAPH AT								
+	OFF18	.21	1	FLOW	118.	104.	93.	81.
				TIME	3.75	3.75	3.75	3.75
HYDROGRAPH AT								
+	DB2	.03	1	FLOW	32.	29.	27.	24.
				TIME	3.58	3.58	3.58	3.58
3 COMBINED AT								
+	PT2	1.08	1	FLOW	190.	168.	152.	133.
				TIME	3.67	3.67	3.67	3.67
ROUTED TO								
+	DET2	1.08	1	FLOW	44.	43.	42.	39.
				TIME	8.75	8.25	7.92	7.67
			**	PEAK STAGES IN FEET **				
			1	STAGE	29.67	29.28	29.02	28.51
				TIME	8.75	8.25	7.92	7.67
DIVERSION TO								
+	DIV-2	1.08	1	FLOW	44.	43.	42.	39.
				TIME	8.75	8.25	7.92	7.67
HYDROGRAPH AT								
+	DIV2	1.08	1	FLOW	0.	0.	0.	0.
				TIME	.00	.00	.00	.00
HYDROGRAPH AT								
+	OFF16	.36	1	FLOW	207.	181.	163.	142.
				TIME	3.67	3.67	3.75	3.75
HYDROGRAPH AT								
+	DB3	.03	1	FLOW	30.	27.	25.	22.
				TIME	3.58	3.58	3.58	3.58
2 COMBINED AT								
+	PT3	.39	1	FLOW	233.	205.	185.	161.
				TIME	3.67	3.67	3.67	3.67
ROUTED TO								
+	DET3	.39	1	FLOW	47.	45.	42.	38.
				TIME	5.42	5.42	5.42	5.42
			**	PEAK STAGES IN FEET **				
			1	STAGE	6.29	5.89	5.41	4.83
				TIME	5.42	5.42	5.42	5.42
DIVERSION TO								
+	DIV-3	.39	1	FLOW	47.	45.	42.	38.
				TIME	5.42	5.42	5.42	5.42
HYDROGRAPH AT								
+	DIV3	.39	1	FLOW	0.	0.	0.	0.
				TIME	.00	.00	.00	.00
3 COMBINED AT								

+	EMPTY	3.11	1	FLOW	1401.	1259.	1158.	1037.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	WPRK3	.02	1	FLOW	18.	16.	14.	12.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	WGC2	.01	1	FLOW	11.	10.	9.	8.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	WML3B	.04	1	FLOW	46.	42.	39.	35.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	EGAN2	.00	1	FLOW	4.	4.	4.	3.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	AROY2	.01	1	FLOW	12.	11.	10.	9.
				TIME	3.50	3.50	3.50	3.50
5 COMBINED AT								
+	DUMMY	.09	1	FLOW	92.	83.	76.	68.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	WPRK2A	.01	1	FLOW	5.	5.	4.	3.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	WPRK2B	.00	1	FLOW	2.	2.	2.	1.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	AROY3	.00	1	FLOW	4.	4.	3.	3.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	WL3B	.03	1	FLOW	24.	21.	19.	17.
				TIME	3.50	3.50	3.50	3.50
5 COMBINED AT								
+	DUMMY	.13	1	FLOW	127.	114.	104.	93.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	HORSE2	.01	1	FLOW	15.	13.	13.	12.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	HUAL2A	.01	1	FLOW	6.	6.	5.	5.
				TIME	3.50	3.50	3.50	3.50
3 COMBINED AT								
+	HU-HO	.14	1	FLOW	148.	133.	122.	109.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	WML5	.04	1	FLOW	45.	41.	38.	34.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	WSCHL2	.02	1	FLOW	19.	17.	16.	14.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	WPRK1	.01	1	FLOW	10.	9.	8.	7.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	STRT5	.01	1	FLOW	9.	8.	8.	7.
				TIME	3.50	3.50	3.50	3.50
5 COMBINED AT								
+	DUMMY	.22	1	FLOW	231.	208.	191.	172.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	AROY5	.01	1	FLOW	12.	10.	9.	8.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	WMLA1	.07	1	FLOW	75.	68.	63.	57.
				TIME	3.50	3.50	3.50	3.58
HYDROGRAPH AT								
+	HUAL2B	.01	1	FLOW	12.	11.	10.	9.
				TIME	3.67	3.67	3.67	3.67
4 COMBINED AT								
+	DUMMY	.31	1	FLOW	328.	296.	273.	245.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	DIV-2	.00	1	FLOW	44.	43.	42.	39.
				TIME	8.75	8.25	7.92	7.67
HYDROGRAPH AT								
+	AROY4	.01	1	FLOW	8.	7.	6.	5.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	WML7	.04	1	FLOW	46.	42.	39.	35.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	WPRK4	.00	1	FLOW	4.	4.	3.	3.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	SHAUM2	.01	1	FLOW	10.	9.	8.	8.
				TIME	3.50	3.50	3.50	3.50
5 COMBINED AT								
+	DUMMY	.06	1	FLOW	89.	81.	76.	69.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	WL7	.02	1	FLOW	21.	19.	17.	15.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	WNVE2	.00	1	FLOW	2.	1.	1.	1.
				TIME	3.58	3.58	3.58	3.58
HYDROGRAPH AT								
+	WL6	.01	1	FLOW	7.	6.	5.	5.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	HORS1A	.01	1	FLOW	11.	10.	10.	9.
				TIME	3.50	3.50	3.50	3.50
5 COMBINED AT								
+	SH-HO	.10	1	FLOW	129.	117.	109.	99.

				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	DIV-3	.00	1	FLOW	47.	45.	42.	38.
				TIME	5.42	5.42	5.42	5.42
HYDROGRAPH AT								
+	WL8	.01	1	FLOW	14.	13.	12.	10.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	WNVE3	.00	1	FLOW	2.	2.	2.	2.
				TIME	3.58	3.58	3.58	3.58
HYDROGRAPH AT								
+	WL5	.04	1	FLOW	40.	36.	33.	29.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	IRON1A	.01	1	FLOW	7.	7.	6.	6.
				TIME	3.50	3.50	3.50	3.50
5 COMBINED AT								
+	DUMMY	.06	1	FLOW	89.	81.	75.	69.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	SHAUM3	.00	1	FLOW	7.	6.	6.	5.
				TIME	3.50	3.50	3.50	3.50
3 COMBINED AT								
+	IR-SH	.16	1	FLOW	225.	205.	190.	173.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	WML6	.03	1	FLOW	36.	32.	30.	27.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	HORS1B	.00	1	FLOW	5.	4.	4.	4.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	WL4	.05	1	FLOW	45.	41.	37.	33.
				TIME	3.58	3.58	3.58	3.58
3 COMBINED AT								
+	DUMMY	.08	1	FLOW	85.	76.	70.	63.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	DIV-1	.00	1	FLOW	59.	55.	52.	48.
				TIME	5.50	5.50	5.50	5.42
HYDROGRAPH AT								
+	AROY1	.00	1	FLOW	3.	2.	2.	2.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	WPRK5	.00	1	FLOW	3.	3.	3.	2.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	SHEEP1	.10	1	FLOW	84.	76.	70.	63.
				TIME	3.67	3.67	3.67	3.67
5 COMBINED AT								
+	SM-IR	.19	1	FLOW	191.	172.	158.	142.
				TIME	3.58	3.58	3.58	3.58
HYDROGRAPH AT								
+	IRON1B	.00	1	FLOW	6.	5.	5.	4.
				TIME	3.50	3.50	3.50	3.50
4 COMBINED AT								
+	HU-IR	.67	1	FLOW	745.	673.	622.	561.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	OFF4-1	.30	1	FLOW	227.	200.	181.	159.
				TIME	3.67	3.67	3.67	3.67
ROUTED TO								
+	ROFF41	.30	1	FLOW	227.	201.	182.	160.
				TIME	3.83	3.83	3.83	3.83
HYDROGRAPH AT								
+	OFF4-2	.42	1	FLOW	377.	331.	299.	261.
				TIME	3.58	3.58	3.58	3.58
2 COMBINED AT								
+	COFF42	.72	1	FLOW	522.	456.	410.	355.
				TIME	3.58	3.58	3.58	3.58
ROUTED TO								
+	RCOFF4	.72	1	FLOW	492.	431.	395.	342.
				TIME	3.67	3.67	3.67	3.67
HYDROGRAPH AT								
+	OFF5-1	.30	1	FLOW	208.	181.	162.	140.
				TIME	3.58	3.58	3.58	3.58
2 COMBINED AT								
+	COFF51	1.02	1	FLOW	694.	608.	554.	479.
				TIME	3.67	3.67	3.67	3.67
ROUTED TO								
+	RCOFF5	1.02	1	FLOW	696.	611.	549.	478.
				TIME	3.67	3.67	3.67	3.67
HYDROGRAPH AT								
+	OFF5-2	.40	1	FLOW	264.	232.	210.	183.
				TIME	3.67	3.67	3.67	3.67
ROUTED TO								
+	ROFF52	.40	1	FLOW	259.	228.	206.	180.
				TIME	3.75	3.75	3.75	3.75
HYDROGRAPH AT								
+	NW1-C	.29	1	FLOW	183.	159.	142.	123.
				TIME	3.67	3.67	3.67	3.67
2 COMBINED AT								
+	CNW1-C	.69	1	FLOW	439.	384.	345.	299.
				TIME	3.67	3.67	3.67	3.67
2 COMBINED AT								
+	2CNW1C	1.70	1	FLOW	1135.	995.	894.	777.
				TIME	3.67	3.67	3.67	3.67
ROUTED TO								
+	R2CNW1	1.70	1	FLOW	1102.	962.	864.	757.
				TIME	3.67	3.67	3.75	3.75
HYDROGRAPH AT								
+	NW7-C	.49	1	FLOW	286.	252.	227.	198.
				TIME	3.75	3.75	3.75	3.75

+ 2 COMBINED AT	CNW-7	2.19	1	FLOW	1379.	1209.	1091.	956.
				TIME	3.67	3.75	3.75	3.75
+ ROUTED TO	RCNW7C	2.19	1	FLOW	1376.	1210.	1088.	953.
				TIME	3.75	3.75	3.75	3.75
+ HYDROGRAPH AT	NW21-C	.16	1	FLOW	141.	126.	116.	104.
				TIME	3.58	3.58	3.58	3.58
+ 2 COMBINED AT	CNW21C	2.35	1	FLOW	1475.	1297.	1169.	1025.
				TIME	3.67	3.75	3.75	3.75
+ ROUTED TO	RCNW21	2.35	1	FLOW	1478.	1301.	1172.	1015.
				TIME	3.75	3.75	3.75	3.75
+ HYDROGRAPH AT	NW35-C	.34	1	FLOW	246.	219.	200.	177.
				TIME	3.67	3.67	3.67	3.67
+ 2 COMBINED AT	CNW35C	2.69	1	FLOW	1709.	1507.	1360.	1182.
				TIME	3.75	3.75	3.75	3.75
+ 2 COMBINED AT	CKC5	3.36	1	FLOW	2140.	1884.	1704.	1486.
				TIME	3.67	3.67	3.67	3.75
+ HYDROGRAPH AT	NW50-C	.17	1	FLOW	130.	114.	103.	91.
				TIME	3.58	3.58	3.58	3.58
+ 2 COMBINED AT	CKC6	3.53	1	FLOW	2251.	1982.	1792.	1562.
				TIME	3.67	3.67	3.67	3.67
+ HYDROGRAPH AT	OFF1A-	1.14	1	FLOW	405.	341.	297.	246.
				TIME	4.00	4.00	4.00	4.00
+ ROUTED TO	ROFF1A	1.14	1	FLOW	404.	340.	295.	244.
				TIME	4.00	4.00	4.00	4.08
+ HYDROGRAPH AT	OFF1A-	.39	1	FLOW	267.	233.	209.	181.
				TIME	3.67	3.67	3.67	3.67
+ 2 COMBINED AT	COFF1A	1.53	1	FLOW	566.	480.	421.	353.
				TIME	3.83	3.92	3.92	3.92
+ ROUTED TO	RCFF1A	1.53	1	FLOW	564.	480.	421.	353.
				TIME	3.92	4.00	4.00	4.00
+ HYDROGRAPH AT	OFF1A-	.30	1	FLOW	181.	157.	140.	120.
				TIME	3.67	3.67	3.67	3.67
+ 2 COMBINED AT	COFF1A	1.83	1	FLOW	717.	614.	539.	453.
				TIME	3.83	3.83	3.83	3.83
+ ROUTED TO	RCFF1A	1.83	1	FLOW	718.	615.	540.	454.
				TIME	3.92	3.92	3.92	3.92
+ HYDROGRAPH AT	OFF1A-	.27	1	FLOW	143.	122.	107.	90.
				TIME	3.67	3.67	3.67	3.67
+ 2 COMBINED AT	COFF1A	2.11	1	FLOW	827.	711.	623.	523.
				TIME	3.83	3.83	3.83	3.92
+ ROUTED TO	RCFF1A	2.11	1	FLOW	830.	716.	630.	529.
				TIME	4.00	4.00	4.00	4.00
+ HYDROGRAPH AT	OFF1A-	.42	1	FLOW	182.	154.	135.	112.
				TIME	3.75	3.75	3.75	3.75
+ 2 COMBINED AT	COFF1A	2.53	1	FLOW	984.	841.	738.	620.
				TIME	3.92	3.92	4.00	4.00
+ ROUTED TO	ROFF1A	2.53	1	FLOW	981.	840.	737.	614.
				TIME	4.00	4.00	4.00	4.00
+ HYDROGRAPH AT	OFF2A	.32	1	FLOW	145.	122.	107.	89.
				TIME	3.67	3.67	3.67	3.67
+ 2 COMBINED AT	COFF2A	2.84	1	FLOW	1078.	924.	811.	676.
				TIME	4.00	4.00	4.00	4.00
+ ROUTED TO	RCOFF2	2.84	1	FLOW	1070.	910.	801.	671.
				TIME	4.00	4.00	4.08	4.08
+ HYDROGRAPH AT	OFF3	.22	1	FLOW	104.	88.	77.	64.
				TIME	3.67	3.67	3.67	3.67
+ 2 COMBINED AT	COFF3	3.07	1	FLOW	1134.	965.	843.	706.
				TIME	4.00	4.00	4.08	4.08
+ ROUTED TO	RCOFF3	3.07	1	FLOW	1127.	958.	842.	703.
				TIME	4.00	4.08	4.08	4.08
+ HYDROGRAPH AT	OFF2B	.16	1	FLOW	70.	58.	50.	41.
				TIME	3.58	3.58	3.58	3.67
+ 2 COMBINED AT	COFF2B	3.23	1	FLOW	1164.	985.	864.	722.
				TIME	4.00	4.00	4.08	4.08
+ ROUTED TO	RCOFF2	3.23	1	FLOW	1156.	983.	863.	718.
				TIME	4.00	4.08	4.08	4.08
+ HYDROGRAPH AT	OFF1A-	.47	1	FLOW	166.	138.	119.	97.
				TIME	3.75	3.75	3.75	3.75

+ 2 COMBINED AT	COFF1A	3.70	1	FLOW	1290.	1087.	949.	790.
				TIME	4.00	4.00	4.08	4.08
+ ROUTED TO	RCFF1A	3.70	1	FLOW	1282.	1083.	948.	786.
				TIME	4.00	4.08	4.08	4.08
+ HYDROGRAPH AT	NW2-C	.40	1	FLOW	185.	159.	140.	119.
				TIME	3.75	3.75	3.75	3.75
+ ROUTED TO	RNW2-C	.40	1	FLOW	186.	160.	141.	120.
				TIME	3.83	3.83	3.83	3.83
+ HYDROGRAPH AT	NW5-C	.27	1	FLOW	98.	83.	72.	60.
				TIME	3.83	3.83	3.83	3.83
+ 2 COMBINED AT	CNW5-C	.67	1	FLOW	284.	243.	214.	180.
				TIME	3.83	3.83	3.83	3.83
+ 2 COMBINED AT	2CNW5-	4.37	1	FLOW	1530.	1290.	1121.	931.
				TIME	4.00	4.00	4.00	4.08
+ ROUTED TO	RCNW5-	4.37	1	FLOW	1525.	1283.	1118.	929.
				TIME	4.00	4.00	4.08	4.08
+ HYDROGRAPH AT	NW9-C	.27	1	FLOW	172.	151.	136.	119.
				TIME	3.67	3.67	3.67	3.67
+ ROUTED TO	RNW9-C	.27	1	FLOW	172.	151.	136.	118.
				TIME	3.75	3.75	3.75	3.75
+ HYDROGRAPH AT	NW11-C	.27	1	FLOW	123.	104.	91.	76.
				TIME	3.67	3.67	3.67	3.67
+ 2 COMBINED AT	CNW11-	.54	1	FLOW	286.	248.	221.	190.
				TIME	3.75	3.75	3.75	3.75
+ 2 COMBINED AT	2CNW11	4.91	1	FLOW	1725.	1458.	1270.	1049.
				TIME	4.00	4.00	4.00	4.00
+ ROUTED TO	RCNW11	4.91	1	FLOW	1723.	1454.	1265.	1049.
				TIME	4.00	4.00	4.00	4.08
+ HYDROGRAPH AT	NW17-C	.43	1	FLOW	227.	199.	178.	155.
				TIME	3.75	3.75	3.75	3.75
+ 2 COMBINED AT	CNW17-	5.34	1	FLOW	1905.	1607.	1403.	1163.
				TIME	3.92	4.00	4.00	4.00
+ ROUTED TO	RCNW17	5.34	1	FLOW	1898.	1605.	1399.	1159.
				TIME	4.00	4.00	4.00	4.00
+ HYDROGRAPH AT	NW23-C	.38	1	FLOW	206.	180.	163.	141.
				TIME	3.67	3.67	3.75	3.75
+ 2 COMBINED AT	CNW23-	5.71	1	FLOW	2065.	1735.	1516.	1260.
				TIME	3.92	3.92	4.00	4.00
+ ROUTED TO	RCNW23	5.71	1	FLOW	2056.	1734.	1513.	1256.
				TIME	3.92	4.00	4.00	4.00
+ HYDROGRAPH AT	NW51-C	.50	1	FLOW	281.	247.	223.	194.
				TIME	3.75	3.75	3.75	3.75
+ 2 COMBINED AT	CNW51-	6.21	1	FLOW	2291.	1931.	1683.	1400.
				TIME	3.92	3.92	3.92	4.00
+ HYDROGRAPH AT	202	5.55	1	FLOW	3672.	3189.	2850.	2451.
				TIME	3.83	3.83	3.83	3.83
+ ROUTED TO	R202	5.55	1	FLOW	3515.	3056.	2733.	2353.
				TIME	4.08	4.08	4.08	4.08
+ HYDROGRAPH AT	203	6.41	1	FLOW	3756.	3263.	2918.	2511.
				TIME	4.00	4.00	4.00	4.00
+ HYDROGRAPH AT	204	2.71	1	FLOW	1555.	1347.	1201.	1029.
				TIME	3.92	3.92	3.92	3.92
+ 3 COMBINED AT	C203	14.67	1	FLOW	8785.	7626.	6812.	5855.
				TIME	4.00	4.00	4.00	4.00
+ ROUTED TO	RC203	14.67	1	FLOW	8257.	7167.	6402.	5503.
				TIME	4.42	4.42	4.42	4.42
+ HYDROGRAPH AT	209-A	5.20	1	FLOW	1242.	1013.	856.	709.
				TIME	4.42	4.42	4.42	5.33
+ 2 COMBINED AT	C209-A	19.86	1	FLOW	9500.	8180.	7259.	6181.
				TIME	4.42	4.42	4.42	4.42
+ HYDROGRAPH AT	210-C	12.04	1	FLOW	3948.	3357.	2947.	2472.
				TIME	4.42	4.42	4.42	4.50
+ 2 COMBINED AT	C210-C	31.91	1	FLOW	13448.	11537.	10205.	8651.
				TIME	4.42	4.42	4.42	4.42
+ ROUTED TO	RC210-	31.91	1	FLOW	13317.	11423.	10103.	8563.
				TIME	4.50	4.50	4.50	4.50
+ HYDROGRAPH AT	210-A	2.52	1	FLOW	990.	839.	734.	612.
				TIME	3.92	4.00	4.00	4.00

2 COMBINED AT

+	C210-A	34.43	1	FLOW	13918.	11939.	10560.	8951.
				TIME	4.50	4.50	4.50	4.50
ROUTED TO								
+	RC210-	34.43	1	FLOW	13732.	11784.	10426.	8841.
				TIME	4.67	4.67	4.67	4.67
HYDROGRAPH AT								
+	209-B	1.62	1	FLOW	353.	281.	234.	188.
				TIME	4.08	4.17	4.17	5.25
2 COMBINED AT								
+	C209-B	36.05	1	FLOW	13976.	11985.	10597.	8978.
				TIME	4.67	4.67	4.67	4.67
ROUTED TO								
+	RC209-	36.05	1	FLOW	13535.	11594.	10242.	8669.
				TIME	5.00	5.00	5.00	5.08
HYDROGRAPH AT								
+	213A-1	2.97	1	FLOW	822.	691.	601.	497.
				TIME	4.33	4.33	4.33	4.33
2 COMBINED AT								
+	C213A-	39.02	1	FLOW	14201.	12165.	10747.	9104.
				TIME	5.00	5.00	5.00	5.08
ROUTED TO								
+	RC213A	39.02	1	FLOW	14168.	12148.	10738.	9097.
				TIME	5.08	5.08	5.08	5.08
HYDROGRAPH AT								
+	213A-2	.50	1	FLOW	229.	194.	170.	143.
				TIME	3.75	3.75	3.75	3.75
2 COMBINED AT								
+	C213A-	39.52	1	FLOW	14308.	12271.	10849.	9193.
				TIME	5.08	5.08	5.08	5.08
ROUTED TO								
+	RC213A	39.52	1	FLOW	14296.	12247.	10823.	9161.
				TIME	5.08	5.08	5.08	5.08
HYDROGRAPH AT								
+	213A-3	.37	1	FLOW	173.	147.	129.	108.
				TIME	3.67	3.75	3.75	3.75
2 COMBINED AT								
+	C213A-	39.89	1	FLOW	14398.	12336.	10904.	9231.
				TIME	5.08	5.08	5.08	5.08
ROUTED TO								
+	RC213A	39.89	1	FLOW	14367.	12298.	10863.	9211.
				TIME	5.08	5.08	5.08	5.17
HYDROGRAPH AT								
+	213A-4	.25	1	FLOW	120.	102.	89.	74.
				TIME	3.67	3.67	3.67	3.67
2 COMBINED AT								
+	C213A-	40.14	1	FLOW	14431.	12354.	10913.	9246.
				TIME	5.08	5.08	5.08	5.17
ROUTED TO								
+	RC213A	40.14	1	FLOW	14172.	12132.	10724.	9096.
				TIME	5.33	5.33	5.42	5.42
HYDROGRAPH AT								
+	213A-5	2.06	1	FLOW	516.	429.	369.	300.
				TIME	4.17	4.17	4.17	4.17
2 COMBINED AT								
+	C213A-	42.20	1	FLOW	14577.	12481.	11026.	9350.
				TIME	5.33	5.33	5.33	5.42
ROUTED TO								
+	RC213A	42.20	1	FLOW	14524.	12456.	11018.	9340.
				TIME	5.33	5.42	5.42	5.42
HYDROGRAPH AT								
+	213A-1	.25	1	FLOW	215.	195.	181.	163.
				TIME	3.67	3.67	3.67	3.67
2 COMBINED AT								
+	C213A-	42.45	1	FLOW	14557.	12479.	11039.	9359.
				TIME	5.33	5.42	5.42	5.42
ROUTED TO								
+	RC13A-	42.45	1	FLOW	14540.	12470.	11021.	9335.
				TIME	5.42	5.42	5.42	5.42
HYDROGRAPH AT								
+	213A-1	.26	1	FLOW	214.	195.	180.	163.
				TIME	3.67	3.67	3.67	3.67
2 COMBINED AT								
+	C213A-	42.71	1	FLOW	14565.	12492.	11042.	9354.
				TIME	5.42	5.42	5.42	5.42
ROUTED TO								
+	RC13A-	42.71	1	FLOW	14548.	12463.	11010.	9335.
				TIME	5.42	5.42	5.42	5.50
HYDROGRAPH AT								
+	213B-6	.24	1	FLOW	200.	181.	168.	152.
				TIME	3.67	3.67	3.67	3.67
2 COMBINED AT								
+	C213B-	42.95	1	FLOW	14571.	12484.	11030.	9349.
				TIME	5.42	5.42	5.42	5.50
ROUTED TO								
+	RC213B	42.95	1	FLOW	14557.	12468.	11012.	9346.
				TIME	5.42	5.42	5.50	5.50
2 COMBINED AT								
+	2C213A	49.16	1	FLOW	15741.	13515.	11960.	10140.
				TIME	5.42	5.42	5.42	5.42
ROUTED TO								
+	RC213A	49.16	1	FLOW	15738.	13504.	11944.	10119.
				TIME	5.42	5.42	5.42	5.42
HYDROGRAPH AT								
+	213B-7	.25	1	FLOW	184.	166.	154.	139.
				TIME	3.67	3.67	3.67	3.67
2 COMBINED AT								
+	C213B-	49.41	1	FLOW	15770.	13534.	11972.	10144.
				TIME	5.42	5.42	5.42	5.42
HYDROGRAPH AT								
+	213B-1	.26	1	FLOW	225.	204.	189.	171.
				TIME	3.67	3.67	3.67	3.67
ROUTED TO								
+	RC213B	.26	1	FLOW	221.	197.	181.	170.

				TIME	3.67	3.67	3.67	3.67
HYDROGRAPH AT								
+	213B-2	.26	1	FLOW	223.	203.	188.	170.
				TIME	3.67	3.67	3.67	3.67
2 COMBINED AT								
+	C213B-	.52	1	FLOW	444.	400.	369.	340.
				TIME	3.67	3.67	3.67	3.67
ROUTED TO								
+	RC213B	.52	1	FLOW	435.	387.	358.	330.
				TIME	3.75	3.75	3.75	3.75
HYDROGRAPH AT								
+	213B-3	.25	1	FLOW	211.	191.	177.	160.
				TIME	3.67	3.67	3.67	3.67
2 COMBINED AT								
+	C213B-	.78	1	FLOW	632.	571.	528.	478.
				TIME	3.67	3.67	3.67	3.67
ROUTED TO								
+	RC213B	.78	1	FLOW	628.	561.	521.	477.
				TIME	3.75	3.75	3.75	3.75
HYDROGRAPH AT								
+	213B-4	.25	1	FLOW	208.	189.	175.	158.
				TIME	3.67	3.67	3.67	3.67
2 COMBINED AT								
+	C213B-	1.03	1	FLOW	811.	727.	675.	616.
				TIME	3.75	3.75	3.75	3.75
ROUTED TO								
+	RC213B	1.03	1	FLOW	807.	727.	674.	610.
				TIME	3.75	3.75	3.75	3.75
2 COMBINED AT								
+	2C213B	50.44	1	FLOW	15974.	13707.	12135.	10295.
				TIME	5.33	5.42	5.42	5.42
ROUTED TO								
+	RC213B	50.44	1	FLOW	15959.	13701.	12126.	10277.
				TIME	5.42	5.42	5.42	5.42
HYDROGRAPH AT								
+	213B-5	.24	1	FLOW	183.	165.	153.	138.
				TIME	3.67	3.67	3.67	3.67
2 COMBINED AT								
+	C213B5	50.68	1	FLOW	15986.	13727.	12150.	10298.
				TIME	5.42	5.42	5.42	5.42
HYDROGRAPH AT								
+	OFFT	.02	1	FLOW	15.	13.	12.	11.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	SHEEP2	.06	1	FLOW	43.	37.	34.	29.
				TIME	3.58	3.58	3.58	3.58
HYDROGRAPH AT								
+	SHEEP3	.01	1	FLOW	10.	9.	8.	7.
				TIME	3.58	3.58	3.58	3.58
HYDROGRAPH AT								
+	EMLA2	.14	1	FLOW	105.	94.	86.	77.
				TIME	3.58	3.58	3.58	3.58
5 COMBINED AT								
+	DUMMY	50.91	1	FLOW	16001.	13740.	12162.	10309.
				TIME	5.42	5.42	5.42	5.42
HYDROGRAPH AT								
+	ENVE1	.03	1	FLOW	12.	10.	9.	7.
				TIME	3.58	3.58	3.58	3.58
HYDROGRAPH AT								
+	OFFZ	.05	1	FLOW	38.	34.	30.	26.
				TIME	3.58	3.58	3.58	3.58
HYDROGRAPH AT								
+	HUAL3	.00	1	FLOW	4.	3.	3.	3.
				TIME	3.58	3.58	3.58	3.58
5 COMBINED AT								
+	SH-MO	54.53	1	FLOW	16767.	14397.	12741.	10825.
				TIME	5.33	5.33	5.33	5.42
HYDROGRAPH AT								
+	SKY3	.01	1	FLOW	7.	7.	6.	6.
				TIME	3.58	3.58	3.58	3.58
HYDROGRAPH AT								
+	95-6	.01	1	FLOW	11.	10.	9.	8.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	OFFH	.01	1	FLOW	8.	7.	7.	6.
				TIME	3.50	3.50	3.50	3.50
3 COMBINED AT								
+	SK-IR	.02	1	FLOW	26.	23.	22.	19.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	EML1A	.03	1	FLOW	26.	24.	22.	19.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	IRON2	.00	1	FLOW	6.	5.	5.	4.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	EMLA1B	.02	1	FLOW	25.	23.	21.	19.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	TP2	.00	1	FLOW	1.	1.	1.	1.
				TIME	3.50	3.50	3.50	3.50
5 COMBINED AT								
+	IR-TP	.08	1	FLOW	84.	76.	70.	63.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	ES1	.02	1	FLOW	17.	15.	14.	13.
				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT								
+	IRON3	.00	1	FLOW	3.	3.	3.	2.
				TIME	3.50	3.50	3.50	3.50
3 COMBINED AT								
+	IR-FT	.10	1	FLOW	104.	94.	87.	78.
				TIME	3.50	3.50	3.50	3.50

DIVERSION TO	IREAST	.10	1	FLOW	100.	94.	87.	78.
+				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT	FTNOR	.10	1	FLOW	5.	0.	0.	0.
+				TIME	3.50	.00	.00	.00
HYDROGRAPH AT	RETD1B	.00	1	FLOW	30.	27.	25.	22.
+				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT	RETD2B	.00	1	FLOW	29.	26.	24.	22.
+				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT	OFF9	.04	1	FLOW	36.	32.	30.	26.
+				TIME	3.58	3.58	3.58	3.58
3 COMBINED AT	COFF9	.04	1	FLOW	90.	81.	75.	67.
+				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT	OFFS	.01	1	FLOW	11.	9.	9.	8.
+				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT	SKY4	.01	1	FLOW	10.	9.	8.	7.
+				TIME	3.58	3.58	3.58	3.58
3 COMBINED AT	LC-SK	.06	1	FLOW	109.	98.	90.	81.
+				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT	EML1B	.07	1	FLOW	67.	60.	55.	49.
+				TIME	3.58	3.58	3.58	3.58
HYDROGRAPH AT	ESCHL1	.02	1	FLOW	15.	13.	12.	10.
+				TIME	3.58	3.58	3.58	3.58
HYDROGRAPH AT	EPRK1	.01	1	FLOW	3.	2.	2.	1.
+				TIME	3.58	3.58	3.58	4.83
HYDROGRAPH AT	STRT6	.01	1	FLOW	6.	5.	5.	5.
+				TIME	3.58	3.58	3.58	3.58
HYDROGRAPH AT	EML2A	.07	1	FLOW	60.	53.	49.	44.
+				TIME	3.58	3.58	3.58	3.58
5 COMBINED AT	DUMMY	.18	1	FLOW	151.	134.	123.	109.
+				TIME	3.58	3.58	3.58	3.58
HYDROGRAPH AT	TP3	.01	1	FLOW	6.	6.	5.	5.
+				TIME	3.58	3.58	3.58	3.58
HYDROGRAPH AT	TP4A	.00	1	FLOW	3.	3.	3.	3.
+				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT	LOG1	.01	1	FLOW	9.	8.	8.	7.
+				TIME	3.50	3.50	3.50	3.50
5 COMBINED AT	LC-TP	.26	1	FLOW	274.	245.	225.	200.
+				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT	EL1	.12	1	FLOW	61.	52.	46.	39.
+				TIME	3.58	3.58	3.58	3.58
HYDROGRAPH AT	LOG2	.00	1	FLOW	5.	5.	5.	4.
+				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT	FORT1	.01	1	FLOW	8.	8.	7.	6.
+				TIME	3.58	3.58	3.58	3.58
5 COMBINED AT	FT-LC	.49	1	FLOW	343.	300.	274.	242.
+				TIME	3.50	3.50	3.58	3.58
DIVERSION TO	OHARE	.49	1	FLOW	9.	4.	0.	0.
+				TIME	3.50	3.50	3.58	.00
HYDROGRAPH AT	RFTLC	.49	1	FLOW	334.	297.	273.	242.
+				TIME	3.50	3.50	3.58	3.58
DIVERSION TO	LOGCAB	.49	1	FLOW	95.	82.	74.	65.
+				TIME	3.50	3.50	3.58	3.58
HYDROGRAPH AT	R2FTLC	.49	1	FLOW	239.	215.	200.	177.
+				TIME	3.50	3.50	3.58	3.58
HYDROGRAPH AT	EML2B	.04	1	FLOW	38.	34.	31.	28.
+				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT	TP4B	.00	1	FLOW	4.	4.	4.	3.
+				TIME	3.50	3.50	3.50	3.50
HYDROGRAPH AT	EML3	.06	1	FLOW	51.	46.	42.	37.
+				TIME	3.58	3.58	3.58	3.58
HYDROGRAPH AT	STRT7	.00	1	FLOW	5.	5.	4.	4.
+				TIME	3.50	3.50	3.50	3.50
5 COMBINED AT	DUMMY	.60	1	FLOW	333.	299.	277.	246.
+				TIME	3.50	3.50	3.50	3.58
HYDROGRAPH AT	EML4	.07	1	FLOW	64.	57.	52.	47.
+				TIME	3.58	3.58	3.58	3.58
HYDROGRAPH AT	ENVE2	.01	1	FLOW	6.	5.	4.	3.
+				TIME	3.58	3.58	3.58	3.58

+ HYDROGRAPH AT	FORT2	.01	1	FLOW	8.	7.	7.	6.
				TIME	3.67	3.67	3.67	3.67
+ 4 COMBINED AT	FT-MO	.70	1	FLOW	407.	368.	340.	303.
				TIME	3.58	3.58	3.58	3.58
+ 2 COMBINED AT	CP43	55.23	1	FLOW	16797.	14424.	12766.	10844.
				TIME	5.33	5.33	5.33	5.42
+ HYDROGRAPH AT	95-7A	.01	1	FLOW	8.	7.	7.	6.
				TIME	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	95-7B	.01	1	FLOW	9.	8.	8.	7.
				TIME	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	95-8A	.01	1	FLOW	6.	6.	5.	5.
				TIME	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	95-8B	.00	1	FLOW	4.	4.	3.	3.
				TIME	3.50	3.50	3.50	3.50
+ 4 COMBINED AT	C95-8B	.02	1	FLOW	28.	25.	23.	21.
				TIME	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	SKY2	.01	1	FLOW	9.	8.	8.	7.
				TIME	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	EMLA1A	.01	1	FLOW	16.	14.	13.	12.
				TIME	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	TP1	.00	1	FLOW	1.	1.	1.	1.
				TIME	3.50	3.50	3.50	3.50
+ 4 COMBINED AT	BR-TP	.05	1	FLOW	54.	49.	45.	41.
				TIME	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	ES2	.05	1	FLOW	48.	43.	40.	36.
				TIME	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	BRENT1	.00	1	FLOW	3.	2.	2.	2.
				TIME	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	EGC3	.02	1	FLOW	26.	23.	22.	20.
				TIME	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	HORSE5	.00	1	FLOW	7.	6.	6.	5.
				TIME	3.50	3.50	3.50	3.50
+ 5 COMBINED AT	CP44	.12	1	FLOW	134.	121.	113.	102.
				TIME	3.50	3.50	3.50	3.50
+ DIVERSION TO	BRENT	.12	1	FLOW	84.	71.	65.	59.
				TIME	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	SOUTH	.12	1	FLOW	50.	50.	48.	43.
				TIME	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	SKY1	.01	1	FLOW	10.	9.	8.	8.
				TIME	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	HORSE4	.00	1	FLOW	5.	5.	4.	4.
				TIME	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	EGC1	.01	1	FLOW	10.	9.	8.	7.
				TIME	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	EGC2	.01	1	FLOW	14.	13.	12.	11.
				TIME	3.50	3.50	3.50	3.50
+ 5 COMBINED AT	DUMMY	.15	1	FLOW	89.	85.	81.	73.
				TIME	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	95-9B	.01	1	FLOW	13.	12.	11.	10.
				TIME	3.58	3.58	3.58	3.58
+ 2 COMBINED AT	CP45	.17	1	FLOW	101.	97.	91.	83.
				TIME	3.50	3.50	3.50	3.50
+ DIVERSION TO	RACEL	.17	1	FLOW	101.	97.	91.	83.
				TIME	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	HORSE	.17	1	FLOW	0.	0.	0.	0.
				TIME	3.50	.00	.00	.00

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SUMMARY OF KINEMATIC WAVE - MUSKINGUM-CUNGE ROUTING
(FLOW IS DIRECT RUNOFF WITHOUT BASE FLOW)

ISTAQ	ELEMENT	DT	PEAK	TIME TO PEAK	VOLUME	INTERPOLATED TO COMPUTATION INTERVAL DT	PEAK	TIME TO PEAK	VOLUME
		(MIN)	(CFS)	(MIN)	(IN)	(MIN)	(CFS)	(MIN)	(IN)
FOR PLAN = 1 RATIO= .86									
RCD1C	MANE	5.00	3.28	224.94	.12	5.00	3.27	225.00	.12

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2629E+00 EXCESS= .0000E+00 OUTFLOW= .2737E+00 BASIN STORAGE= .1158E-03 PERCENT ERROR= -4.2

FOR PLAN = 1 RATIO= .79									
RCD1C	MANE	5.00	2.90	225.48	.11	5.00	2.79	225.00	.11

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2329E+00 EXCESS= .0000E+00 OUTFLOW= .2404E+00 BASIN STORAGE= .1289E-03 PERCENT ERROR= -3.3

FOR PLAN = 1 RATIO= .74									
RCD1C	MANE	5.00	2.61	228.97	.10	5.00	2.44	230.00	.10

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2118E+00 EXCESS= .0000E+00 OUTFLOW= .2181E+00 BASIN STORAGE= .1211E-03 PERCENT ERROR= -3.0

FOR PLAN = 1 RATIO= .68

RCD1C	MANE	4.67	2.31	227.72	.09	5.00	2.16	230.00	.09

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1868E+00 EXCESS= .0000E+00 OUTFLOW= .1912E+00 BASIN STORAGE= .1331E-03 PERCENT ERROR= -2.4

FOR PLAN = 1 RATIO= .00

RNW29C	MANE	1.44	116.25	217.08	1.80	5.00	113.25	215.00	1.80

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1269E+02 EXCESS= .0000E+00 OUTFLOW= .1269E+02 BASIN STORAGE= .1181E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RNW29C	MANE	1.50	104.23	216.04	1.61	5.00	101.57	215.00	1.61

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1131E+02 EXCESS= .0000E+00 OUTFLOW= .1131E+02 BASIN STORAGE= .1244E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RNW29C	MANE	1.55	96.15	217.20	1.47	5.00	93.27	215.00	1.47

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1033E+02 EXCESS= .0000E+00 OUTFLOW= .1034E+02 BASIN STORAGE= .1131E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RNW29C	MANE	1.62	86.09	217.31	1.30	5.00	83.29	215.00	1.30

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9178E+01 EXCESS= .0000E+00 OUTFLOW= .9179E+01 BASIN STORAGE= .1114E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCNW71	MANE	3.66	202.55	219.48	1.78	5.00	201.31	220.00	1.78

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2238E+02 EXCESS= .0000E+00 OUTFLOW= .2239E+02 BASIN STORAGE= .3788E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00

RCNW71	MANE	3.82	179.70	217.70	1.59	5.00	178.91	220.00	1.58

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1994E+02 EXCESS= .0000E+00 OUTFLOW= .1995E+02 BASIN STORAGE= .3758E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00

RCNW71	MANE	3.95	164.66	221.25	1.45	5.00	164.20	220.00	1.45

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1822E+02 EXCESS= .0000E+00 OUTFLOW= .1823E+02 BASIN STORAGE= .4043E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00

RCNW71	MANE	4.13	150.78	219.01	1.29	5.00	149.38	220.00	1.29

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1619E+02 EXCESS= .0000E+00 OUTFLOW= .1620E+02 BASIN STORAGE= .4305E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00

ROFF41	MANE	5.00	227.11	230.00	1.66	5.00	227.11	230.00	1.66

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2661E+02 EXCESS= .0000E+00 OUTFLOW= .2662E+02 BASIN STORAGE= .2209E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

ROFF41	MANE	5.00	200.93	230.00	1.45	5.00	200.93	230.00	1.45

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2334E+02 EXCESS= .0000E+00 OUTFLOW= .2334E+02 BASIN STORAGE= .2074E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

ROFF41	MANE	5.00	182.29	230.00	1.31	5.00	182.29	230.00	1.31

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2104E+02 EXCESS= .0000E+00 OUTFLOW= .2105E+02 BASIN STORAGE= .1975E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

ROFF41	MANE	5.00	160.01	230.00	1.14	5.00	160.01	230.00	1.14

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1834E+02 EXCESS= .0000E+00 OUTFLOW= .1835E+02 BASIN STORAGE= .1797E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOFF4	MANE	3.68	509.59	216.97	1.56	5.00	491.95	220.00	1.56

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6013E+02 EXCESS= .0000E+00 OUTFLOW= .6013E+02 BASIN STORAGE= .8757E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOFF4	MANE	3.80	442.96	216.78	1.37	5.00	431.25	220.00	1.36

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5249E+02 EXCESS= .0000E+00 OUTFLOW= .5249E+02 BASIN STORAGE= .1077E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOFF4	MANE	3.91	405.82	218.74	1.23	5.00	395.04	220.00	1.23

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4725E+02 EXCESS= .0000E+00 OUTFLOW= .4725E+02 BASIN STORAGE= .9007E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOFF4	MANE	4.05	351.80	218.62	1.07	5.00	341.81	220.00	1.07

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4104E+02 EXCESS= .0000E+00 OUTFLOW= .4104E+02 BASIN STORAGE= .1093E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOFF5	MANE	2.52	699.16	219.46	1.50	5.00	696.11	220.00	1.50

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8162E+02 EXCESS= .0000E+00 OUTFLOW= .8162E+02 BASIN STORAGE= .3552E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOFF5	MANE	2.59	612.17	220.18	1.31	5.00	611.20	220.00	1.31

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7117E+02 EXCESS= .0000E+00 OUTFLOW= .7117E+02 BASIN STORAGE= .4401E-03 PERCENT ERROR= .0

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 FOR PLAN = 1  RATIO= .00
  RCOFF5  MANE          2.64    549.25    219.06      1.18      5.00    548.63    220.00         1.18

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6391E+02 EXCESS= .0000E+00 OUTFLOW= .6391E+02 BASIN STORAGE= .3734E-03 PERCENT ERROR=     .0

 FOR PLAN = 1  RATIO= .00
  RCOFF5  MANE          2.72    478.06    220.06      1.02      5.00    477.61    220.00         1.02

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5538E+02 EXCESS= .0000E+00 OUTFLOW= .5538E+02 BASIN STORAGE= .4315E-03 PERCENT ERROR=     .0

 FOR PLAN = 1  RATIO= .00
  ROFF52  MANE          1.51    262.98    222.47      1.52      5.00    259.06    225.00         1.52

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3196E+02 EXCESS= .0000E+00 OUTFLOW= .3196E+02 BASIN STORAGE= .1884E-03 PERCENT ERROR=     .0

 FOR PLAN = 1  RATIO= .00
  ROFF52  MANE          1.55    231.56    222.04      1.33      5.00    228.03    225.00         1.33

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2797E+02 EXCESS= .0000E+00 OUTFLOW= .2797E+02 BASIN STORAGE= .1885E-03 PERCENT ERROR=     .0

 FOR PLAN = 1  RATIO= .00
  ROFF52  MANE          1.58    209.25    221.85      1.19      5.00    206.04    225.00         1.19

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2517E+02 EXCESS= .0000E+00 OUTFLOW= .2517E+02 BASIN STORAGE= .1772E-03 PERCENT ERROR=     .0

 FOR PLAN = 1  RATIO= .00
  ROFF52  MANE          1.63    182.76    223.07      1.04      5.00    180.26    225.00         1.04

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2189E+02 EXCESS= .0000E+00 OUTFLOW= .2189E+02 BASIN STORAGE= .1753E-03 PERCENT ERROR=     .0

 FOR PLAN = 1  RATIO= .00
  R2CNW1  MANE          1.86   1122.59    222.96      1.47      5.00   1101.92    220.00         1.47

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1336E+03 EXCESS= .0000E+00 OUTFLOW= .1336E+03 BASIN STORAGE= .4072E-02 PERCENT ERROR=     .0

 FOR PLAN = 1  RATIO= .00
  R2CNW1  MANE          1.96    984.78    223.24      1.28      5.00    962.02    220.00         1.28

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1165E+03 EXCESS= .0000E+00 OUTFLOW= .1165E+03 BASIN STORAGE= .3453E-02 PERCENT ERROR=     .0

 FOR PLAN = 1  RATIO= .00
  R2CNW1  MANE          2.04    887.93    222.81      1.15      5.00    864.24    225.00         1.15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1045E+03 EXCESS= .0000E+00 OUTFLOW= .1045E+03 BASIN STORAGE= .3647E-02 PERCENT ERROR=     .0

 FOR PLAN = 1  RATIO= .00
  R2CNW1  MANE          2.16    772.78    222.69      1.00      5.00    757.29    225.00         1.00

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9053E+02 EXCESS= .0000E+00 OUTFLOW= .9053E+02 BASIN STORAGE= .4137E-02 PERCENT ERROR=     .0

 FOR PLAN = 1  RATIO= .00
  RCNW7C  MANE          1.13   1381.05    221.39      1.46      5.00   1375.67    225.00         1.46

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1704E+03 EXCESS= .0000E+00 OUTFLOW= .1704E+03 BASIN STORAGE= .2260E-02 PERCENT ERROR=     .0

 FOR PLAN = 1  RATIO= .00
  RCNW7C  MANE          1.19   1210.28    225.02      1.27      5.00   1210.18    225.00         1.27

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1486E+03 EXCESS= .0000E+00 OUTFLOW= .1486E+03 BASIN STORAGE= .2357E-02 PERCENT ERROR=     .0

 FOR PLAN = 1  RATIO= .00
  RCNW7C  MANE          1.24   1088.53    224.51      1.14      5.00   1088.23    225.00         1.14

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1334E+03 EXCESS= .0000E+00 OUTFLOW= .1334E+03 BASIN STORAGE= .2378E-02 PERCENT ERROR=     .0

 FOR PLAN = 1  RATIO= .00
  RCNW7C  MANE          1.31    952.89    225.01       .99      5.00    952.81    225.00          .99

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1156E+03 EXCESS= .0000E+00 OUTFLOW= .1156E+03 BASIN STORAGE= .2359E-02 PERCENT ERROR=     .0

 FOR PLAN = 1  RATIO= .00
  RCNW21  MANE          2.25   1478.27    222.86      1.48      5.00   1478.00    225.00         1.48

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1851E+03 EXCESS= .0000E+00 OUTFLOW= .1851E+03 BASIN STORAGE= .5792E-02 PERCENT ERROR=     .0

 FOR PLAN = 1  RATIO= .00
  RCNW21  MANE          2.37   1301.34    225.11      1.29      5.00   1300.92    225.00         1.29

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1618E+03 EXCESS= .0000E+00 OUTFLOW= .1618E+03 BASIN STORAGE= .5378E-02 PERCENT ERROR=     .0

 FOR PLAN = 1  RATIO= .00
  RCNW21  MANE          2.47   1172.86    224.84      1.16      5.00   1171.52    225.00         1.16

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1453E+03 EXCESS= .0000E+00 OUTFLOW= .1453E+03 BASIN STORAGE= .4684E-02 PERCENT ERROR=     .0

 FOR PLAN = 1  RATIO= .00
  RCNW21  MANE          2.60   1016.66    226.55      1.01      5.00   1015.20    225.00         1.01

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1262E+03 EXCESS= .0000E+00 OUTFLOW= .1262E+03 BASIN STORAGE= .5291E-02 PERCENT ERROR=     .0

 FOR PLAN = 1  RATIO= .00
  ROFF1A  MANE          3.64    404.06    240.11      1.02      5.00    403.84    240.00         1.02

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6216E+02 EXCESS= .0000E+00 OUTFLOW= .6216E+02 BASIN STORAGE= .9339E-03 PERCENT ERROR=     .0

 FOR PLAN = 1  RATIO= .00
  ROFF1A  MANE          3.80    340.64    243.02       .86      5.00    339.81    240.00          .86
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .5244E+02 EXCESS= .0000E+00 OUTFLOW= .5244E+02 BASIN STORAGE= .8528E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

ROFF1A	MANE	3.93	296.64	243.71	.75	5.00	295.37	240.00	.75

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4578E+02 EXCESS= .0000E+00 OUTFLOW= .4578E+02 BASIN STORAGE= .9027E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

ROFF1A	MANE	4.12	245.45	243.11	.63	5.00	244.20	245.00	.63

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3815E+02 EXCESS= .0000E+00 OUTFLOW= .3815E+02 BASIN STORAGE= .1182E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCFF1A	MANE	4.92	565.81	236.38	1.12	5.00	564.40	235.00	1.12

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9174E+02 EXCESS= .0000E+00 OUTFLOW= .9175E+02 BASIN STORAGE= .1496E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCFF1A	MANE	5.00	480.07	240.00	.96	5.00	480.07	240.00	.96

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7810E+02 EXCESS= .0000E+00 OUTFLOW= .7811E+02 BASIN STORAGE= .1697E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCFF1A	MANE	5.00	420.77	240.00	.84	5.00	420.77	240.00	.84

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6873E+02 EXCESS= .0000E+00 OUTFLOW= .6873E+02 BASIN STORAGE= .1612E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCFF1A	MANE	5.00	353.13	240.00	.71	5.00	353.13	240.00	.71

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5792E+02 EXCESS= .0000E+00 OUTFLOW= .5792E+02 BASIN STORAGE= .1450E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCFF1A	MANE	5.00	717.92	235.00	1.16	5.00	717.92	235.00	1.16

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1135E+03 EXCESS= .0000E+00 OUTFLOW= .1135E+03 BASIN STORAGE= .1462E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCFF1A	MANE	5.00	614.81	235.00	.99	5.00	614.81	235.00	.99

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9688E+02 EXCESS= .0000E+00 OUTFLOW= .9689E+02 BASIN STORAGE= .1377E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCFF1A	MANE	5.00	540.39	235.00	.87	5.00	540.39	235.00	.87

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8545E+02 EXCESS= .0000E+00 OUTFLOW= .8546E+02 BASIN STORAGE= .1314E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCFF1A	MANE	5.00	454.10	235.00	.74	5.00	454.10	235.00	.74

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7225E+02 EXCESS= .0000E+00 OUTFLOW= .7226E+02 BASIN STORAGE= .1844E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCFF1A	MANE	5.00	830.32	240.00	1.15	5.00	830.32	240.00	1.15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1297E+03 EXCESS= .0000E+00 OUTFLOW= .1298E+03 BASIN STORAGE= .1961E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCFF1A	MANE	5.00	715.71	240.00	.99	5.00	715.71	240.00	.99

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1107E+03 EXCESS= .0000E+00 OUTFLOW= .1107E+03 BASIN STORAGE= .1856E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCFF1A	MANE	5.00	629.80	240.00	.87	5.00	629.80	240.00	.87

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9764E+02 EXCESS= .0000E+00 OUTFLOW= .9766E+02 BASIN STORAGE= .2669E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCFF1A	MANE	5.00	529.24	240.00	.73	5.00	529.24	240.00	.73

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8253E+02 EXCESS= .0000E+00 OUTFLOW= .8254E+02 BASIN STORAGE= .2435E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

ROFF1A	MANE	3.27	982.76	238.74	1.13	5.00	980.58	240.00	1.13

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1523E+03 EXCESS= .0000E+00 OUTFLOW= .1523E+03 BASIN STORAGE= .1190E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

ROFF1A	MANE	3.40	840.78	241.54	.96	5.00	840.22	240.00	.96

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1298E+03 EXCESS= .0000E+00 OUTFLOW= .1299E+03 BASIN STORAGE= .1137E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

ROFF1A	MANE	3.52	737.75	242.55	.85	5.00	736.71	240.00	.85

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1144E+03 EXCESS= .0000E+00 OUTFLOW= .1144E+03 BASIN STORAGE= .1175E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

ROFF1A	MANE	3.67	619.28	242.27	.72	5.00	613.73	240.00	.72

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9655E+02 EXCESS= .0000E+00 OUTFLOW= .9656E+02 BASIN STORAGE= .1015E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOFF2	MANE	3.03	1077.21	242.20	1.11	5.00	1070.39	240.00	1.11

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1690E+03 EXCESS= .0000E+00 OUTFLOW= .1690E+03 BASIN STORAGE= .1089E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCOFF2 MANE 3.15 921.22 242.30 .95 5.00 910.39 240.00 .95

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1440E+03 EXCESS= .0000E+00 OUTFLOW= .1440E+03 BASIN STORAGE= .8983E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCOFF2 MANE 3.25 805.67 243.85 .84 5.00 801.02 245.00 .84

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1268E+03 EXCESS= .0000E+00 OUTFLOW= .1268E+03 BASIN STORAGE= .1102E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCOFF2 MANE 3.40 670.70 244.94 .71 5.00 670.57 245.00 .71

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1069E+03 EXCESS= .0000E+00 OUTFLOW= .1069E+03 BASIN STORAGE= .9601E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCOFF3 MANE 1.29 1132.23 241.32 1.10 5.00 1127.07 240.00 1.10

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1804E+03 EXCESS= .0000E+00 OUTFLOW= .1804E+03 BASIN STORAGE= .2716E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCOFF3 MANE 1.38 963.42 242.27 .94 5.00 957.60 245.00 .94

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1536E+03 EXCESS= .0000E+00 OUTFLOW= .1536E+03 BASIN STORAGE= .2597E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCOFF3 MANE 1.45 842.41 242.66 .83 5.00 841.51 245.00 .83

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1352E+03 EXCESS= .0000E+00 OUTFLOW= .1352E+03 BASIN STORAGE= .2659E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCOFF3 MANE 1.56 704.89 246.43 .70 5.00 702.68 245.00 .70

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1139E+03 EXCESS= .0000E+00 OUTFLOW= .1139E+03 BASIN STORAGE= .2706E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCOFF2 MANE 1.05 1162.68 241.43 1.09 5.00 1156.21 240.00 1.09

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1874E+03 EXCESS= .0000E+00 OUTFLOW= .1874E+03 BASIN STORAGE= .2020E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCOFF2 MANE 1.12 985.23 241.36 .93 5.00 983.41 245.00 .93

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1595E+03 EXCESS= .0000E+00 OUTFLOW= .1595E+03 BASIN STORAGE= .2218E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCOFF2 MANE 1.18 863.02 244.90 .82 5.00 862.93 245.00 .82

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1403E+03 EXCESS= .0000E+00 OUTFLOW= .1403E+03 BASIN STORAGE= .2115E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCOFF2 MANE 1.27 719.84 245.48 .69 5.00 718.25 245.00 .69

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1182E+03 EXCESS= .0000E+00 OUTFLOW= .1182E+03 BASIN STORAGE= .1972E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCFF1A MANE 1.17 1287.62 241.45 1.06 5.00 1282.27 240.00 1.06

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2081E+03 EXCESS= .0000E+00 OUTFLOW= .2081E+03 BASIN STORAGE= .2378E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCFF1A MANE 1.25 1087.42 242.19 .90 5.00 1082.91 245.00 .90

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1768E+03 EXCESS= .0000E+00 OUTFLOW= .1768E+03 BASIN STORAGE= .2380E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCFF1A MANE 1.33 948.41 245.13 .79 5.00 948.13 245.00 .79

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1553E+03 EXCESS= .0000E+00 OUTFLOW= .1553E+03 BASIN STORAGE= .2345E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCFF1A MANE 1.43 787.63 246.70 .66 5.00 786.40 245.00 .66

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1305E+03 EXCESS= .0000E+00 OUTFLOW= .1305E+03 BASIN STORAGE= .2397E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RNW2-C MANE 5.00 185.79 230.00 1.09 5.00 185.79 230.00 1.09

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2294E+02 EXCESS= .0000E+00 OUTFLOW= .2294E+02 BASIN STORAGE= .1112E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RNW2-C MANE 5.00 159.61 230.00 .93 5.00 159.61 230.00 .93

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1963E+02 EXCESS= .0000E+00 OUTFLOW= .1963E+02 BASIN STORAGE= .1024E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RNW2-C MANE 5.00 141.29 230.00 .82 5.00 141.29 230.00 .82

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1735E+02 EXCESS= .0000E+00 OUTFLOW= .1735E+02 BASIN STORAGE= .9591E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RNW2-C MANE 5.00 119.82 230.00 .70 5.00 119.82 230.00 .70

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1471E+02 EXCESS= .0000E+00 OUTFLOW= .1471E+02 BASIN STORAGE= .1375E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00
RCNW5- MANE 1.02 1528.21 240.91 1.05 5.00 1525.15 240.00 1.05

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2444E+03 EXCESS= .0000E+00 OUTFLOW= .2444E+03 BASIN STORAGE= .2129E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCNW5-	MANE	1.09	1288.92	241.57	.89	5.00	1282.98	240.00	.89

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2077E+03 EXCESS= .0000E+00 OUTFLOW= .2077E+03 BASIN STORAGE= .2374E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCNW5-	MANE	1.15	1121.07	241.77	.78	5.00	1118.10	245.00	.78

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1824E+03 EXCESS= .0000E+00 OUTFLOW= .1824E+03 BASIN STORAGE= .2359E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCNW5-	MANE	1.24	929.89	245.47	.66	5.00	929.09	245.00	.66

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1534E+03 EXCESS= .0000E+00 OUTFLOW= .1534E+03 BASIN STORAGE= .2379E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RNW9-C	MANE	5.00	171.69	225.00	1.38	5.00	171.69	225.00	1.38

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1999E+02 EXCESS= .0000E+00 OUTFLOW= .2000E+02 BASIN STORAGE= .1120E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RNW9-C	MANE	5.00	150.61	225.00	1.20	5.00	150.61	225.00	1.20

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1746E+02 EXCESS= .0000E+00 OUTFLOW= .1746E+02 BASIN STORAGE= .1042E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RNW9-C	MANE	5.00	135.70	225.00	1.08	5.00	135.70	225.00	1.08

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1568E+02 EXCESS= .0000E+00 OUTFLOW= .1568E+02 BASIN STORAGE= .1580E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RNW9-C	MANE	5.00	118.19	225.00	.94	5.00	118.19	225.00	.94

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1360E+02 EXCESS= .0000E+00 OUTFLOW= .1360E+02 BASIN STORAGE= .1542E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCNW11	MANE	.93	1723.71	240.60	1.06	5.00	1723.48	240.00	1.06

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2779E+03 EXCESS= .0000E+00 OUTFLOW= .2779E+03 BASIN STORAGE= .2216E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCNW11	MANE	1.00	1455.70	240.37	.90	5.00	1454.47	240.00	.90

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2366E+03 EXCESS= .0000E+00 OUTFLOW= .2366E+03 BASIN STORAGE= .2277E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCNW11	MANE	1.05	1268.97	241.39	.80	5.00	1264.79	240.00	.80

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2082E+03 EXCESS= .0000E+00 OUTFLOW= .2082E+03 BASIN STORAGE= .2094E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCNW11	MANE	1.14	1050.12	242.34	.67	5.00	1048.70	245.00	.67

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1754E+03 EXCESS= .0000E+00 OUTFLOW= .1754E+03 BASIN STORAGE= .2144E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCNW17	MANE	.93	1904.78	236.73	1.08	5.00	1897.81	240.00	1.08

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3067E+03 EXCESS= .0000E+00 OUTFLOW= .3067E+03 BASIN STORAGE= .2289E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCNW17	MANE	1.00	1605.53	240.43	.92	5.00	1605.21	240.00	.92

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2617E+03 EXCESS= .0000E+00 OUTFLOW= .2617E+03 BASIN STORAGE= .2206E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCNW17	MANE	1.05	1400.95	241.25	.81	5.00	1399.33	240.00	.81

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2306E+03 EXCESS= .0000E+00 OUTFLOW= .2306E+03 BASIN STORAGE= .2187E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCNW17	MANE	1.14	1162.33	241.82	.68	5.00	1158.66	240.00	.68

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1948E+03 EXCESS= .0000E+00 OUTFLOW= .1948E+03 BASIN STORAGE= .2468E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCNW23	MANE	1.22	2061.43	235.96	1.09	5.00	2056.46	235.00	1.09

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3323E+03 EXCESS= .0000E+00 OUTFLOW= .3323E+03 BASIN STORAGE= .3365E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCNW23	MANE	1.30	1735.94	237.30	.93	5.00	1734.12	240.00	.93

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2839E+03 EXCESS= .0000E+00 OUTFLOW= .2839E+03 BASIN STORAGE= .2964E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCNW23	MANE	1.38	1514.37	240.86	.82	5.00	1513.05	240.00	.82

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2506E+03 EXCESS= .0000E+00 OUTFLOW= .2506E+03 BASIN STORAGE= .2989E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCNW23	MANE	1.48	1259.71	241.52	.70	5.00	1256.09	240.00	.70

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2121E+03 EXCESS= .0000E+00 OUTFLOW= .2121E+03 BASIN STORAGE= .2955E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213A	MANE	2.83	14178.11	303.25	1.34	5.00	14168.28	305.00	1.34

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2784E+04 EXCESS= .0000E+00 OUTFLOW= .2784E+04 BASIN STORAGE= .1692E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213A	MANE	2.95	12152.28	303.43	1.14	5.00	12148.20	305.00	1.14

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2377E+04 EXCESS= .0000E+00 OUTFLOW= .2377E+04 BASIN STORAGE= .1858E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213A	MANE	3.04	10738.12	303.86	1.01	5.00	10738.07	305.00	1.01

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2097E+04 EXCESS= .0000E+00 OUTFLOW= .2097E+04 BASIN STORAGE= .1628E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213A	MANE	3.17	9102.55	307.23	.85	5.00	9097.06	305.00	.85

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1773E+04 EXCESS= .0000E+00 OUTFLOW= .1773E+04 BASIN STORAGE= .1807E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213A	MANE	1.72	14297.22	304.15	1.33	5.00	14296.30	305.00	1.33

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2812E+04 EXCESS= .0000E+00 OUTFLOW= .2812E+04 BASIN STORAGE= .1031E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213A	MANE	1.79	12258.88	307.13	1.14	5.00	12247.12	305.00	1.14

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2401E+04 EXCESS= .0000E+00 OUTFLOW= .2401E+04 BASIN STORAGE= .1023E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213A	MANE	1.84	10835.18	307.53	1.00	5.00	10823.11	305.00	1.00

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2117E+04 EXCESS= .0000E+00 OUTFLOW= .2117E+04 BASIN STORAGE= .1016E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213A	MANE	1.92	9188.34	307.09	.85	5.00	9160.91	305.00	.85

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1790E+04 EXCESS= .0000E+00 OUTFLOW= .1790E+04 BASIN STORAGE= .1005E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213A	MANE	1.56	14385.75	305.98	1.33	5.00	14366.62	305.00	1.33

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2832E+04 EXCESS= .0000E+00 OUTFLOW= .2832E+04 BASIN STORAGE= .1056E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213A	MANE	1.62	12334.02	306.68	1.14	5.00	12297.74	305.00	1.14

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2418E+04 EXCESS= .0000E+00 OUTFLOW= .2418E+04 BASIN STORAGE= .8708E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213A	MANE	1.67	10892.67	306.25	1.00	5.00	10862.87	305.00	1.00

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2133E+04 EXCESS= .0000E+00 OUTFLOW= .2133E+04 BASIN STORAGE= .1043E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213A	MANE	1.74	9232.71	307.06	.85	5.00	9210.65	310.00	.85

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1803E+04 EXCESS= .0000E+00 OUTFLOW= .1803E+04 BASIN STORAGE= .8514E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213A	MANE	1.67	14575.49	321.77	1.30	5.00	14523.68	320.00	1.30

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2936E+04 EXCESS= .0000E+00 OUTFLOW= .2936E+04 BASIN STORAGE= .9043E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213A	MANE	1.73	12481.42	322.36	1.11	5.00	12455.80	325.00	1.11

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2505E+04 EXCESS= .0000E+00 OUTFLOW= .2505E+04 BASIN STORAGE= .1099E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213A	MANE	1.79	11032.52	323.57	.98	5.00	11017.66	325.00	.98

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2208E+04 EXCESS= .0000E+00 OUTFLOW= .2208E+04 BASIN STORAGE= .1096E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213A	MANE	1.86	9340.65	324.15	.83	5.00	9339.78	325.00	.83

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1865E+04 EXCESS= .0000E+00 OUTFLOW= .1865E+04 BASIN STORAGE= .9060E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC13A-	MANE	1.67	14559.92	321.88	1.31	5.00	14540.36	325.00	1.31

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2962E+04 EXCESS= .0000E+00 OUTFLOW= .2962E+04 BASIN STORAGE= .9697E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC13A-	MANE	1.73	12470.74	324.11	1.12	5.00	12469.66	325.00	1.12

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2529E+04 EXCESS= .0000E+00 OUTFLOW= .2529E+04 BASIN STORAGE= .9396E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC13A-	MANE	1.79	11030.95	327.05	.98	5.00	11020.91	325.00	.98

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2230E+04 EXCESS= .0000E+00 OUTFLOW= .2230E+04 BASIN STORAGE= .9657E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC13A-	MANE	1.86	9348.01	327.79	.83	5.00	9334.74	325.00	.83

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1885E+04 EXCESS= .0000E+00 OUTFLOW= .1885E+04 BASIN STORAGE= .1059E-02 PERCENT ERROR= .0

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 FOR PLAN = 1  RATIO=  .00
   RC13A-  MANE          1.81  14549.47    326.03      1.31      5.00  14547.78    325.00        1.31

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2988E+04 EXCESS= .0000E+00 OUTFLOW= .2988E+04 BASIN STORAGE= .9962E-03 PERCENT ERROR=    .0

 FOR PLAN = 1  RATIO=  .00
   RC13A-  MANE          1.88  12479.41    327.50      1.12      5.00  12462.88    325.00        1.12

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2552E+04 EXCESS= .0000E+00 OUTFLOW= .2552E+04 BASIN STORAGE= .1071E-02 PERCENT ERROR=    .0

 FOR PLAN = 1  RATIO=  .00
   RC13A-  MANE          1.94  11030.30    328.05       .99      5.00  11010.28    325.00         .99

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2251E+04 EXCESS= .0000E+00 OUTFLOW= .2251E+04 BASIN STORAGE= .1074E-02 PERCENT ERROR=    .0

 FOR PLAN = 1  RATIO=  .00
   RC13A-  MANE          2.02   9352.78    327.78       .84      5.00   9334.85    330.00         .84

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1904E+04 EXCESS= .0000E+00 OUTFLOW= .1904E+04 BASIN STORAGE= .1267E-02 PERCENT ERROR=    .0

 FOR PLAN = 1  RATIO=  .00
   RC213B  MANE           .68  14566.77    325.57      1.32      5.00  14557.33    325.00        1.32

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3013E+04 EXCESS= .0000E+00 OUTFLOW= .3013E+04 BASIN STORAGE= .3718E-03 PERCENT ERROR=    .0

 FOR PLAN = 1  RATIO=  .00
   RC213B  MANE           .71  12482.18    325.68      1.12      5.00  12467.86    325.00        1.12

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2574E+04 EXCESS= .0000E+00 OUTFLOW= .2574E+04 BASIN STORAGE= .4176E-03 PERCENT ERROR=    .0

 FOR PLAN = 1  RATIO=  .00
   RC213B  MANE           .73  11030.07    326.45       .99      5.00  11011.87    330.00         .99

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2271E+04 EXCESS= .0000E+00 OUTFLOW= .2271E+04 BASIN STORAGE= .4089E-03 PERCENT ERROR=    .0

 FOR PLAN = 1  RATIO=  .00
   RC213B  MANE           .76   9346.42    330.35       .84      5.00   9345.95    330.00         .84

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1922E+04 EXCESS= .0000E+00 OUTFLOW= .1922E+04 BASIN STORAGE= .3756E-03 PERCENT ERROR=    .0

 FOR PLAN = 1  RATIO=  .00
   RC213A  MANE          1.13  15742.40    322.14      1.29      5.00  15737.77    325.00        1.29

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3380E+04 EXCESS= .0000E+00 OUTFLOW= .3380E+04 BASIN STORAGE= .5958E-02 PERCENT ERROR=    .0

 FOR PLAN = 1  RATIO=  .00
   RC213A  MANE          1.20  13506.68    325.59      1.10      5.00  13504.24    325.00        1.10

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2888E+04 EXCESS= .0000E+00 OUTFLOW= .2888E+04 BASIN STORAGE= .6093E-02 PERCENT ERROR=    .0

 FOR PLAN = 1  RATIO=  .00
   RC213A  MANE          1.26  11950.43    325.49       .97      5.00  11944.50    325.00         .97

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2549E+04 EXCESS= .0000E+00 OUTFLOW= .2549E+04 BASIN STORAGE= .6733E-02 PERCENT ERROR=    .0

 FOR PLAN = 1  RATIO=  .00
   RC213A  MANE          1.35  10135.06    326.15       .82      5.00  10119.35    325.00         .82

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2158E+04 EXCESS= .0000E+00 OUTFLOW= .2158E+04 BASIN STORAGE= .6351E-02 PERCENT ERROR=    .0

 FOR PLAN = 1  RATIO=  .00
   RC213B  MANE          4.50    223.27    220.50      1.95      5.00    220.85    220.00        1.95

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2708E+02 EXCESS= .0000E+00 OUTFLOW= .2709E+02 BASIN STORAGE= .1197E-02 PERCENT ERROR=    .0

 FOR PLAN = 1  RATIO=  .00
   RC213B  MANE          4.85    202.30    223.09      1.75      5.00    197.07    220.00        1.75

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2433E+02 EXCESS= .0000E+00 OUTFLOW= .2434E+02 BASIN STORAGE= .1170E-02 PERCENT ERROR=    .0

 FOR PLAN = 1  RATIO=  .00
   RC213B  MANE          4.94    187.51    222.46      1.61      5.00    181.38    220.00        1.61

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2240E+02 EXCESS= .0000E+00 OUTFLOW= .2240E+02 BASIN STORAGE= .1304E-02 PERCENT ERROR=    .0

 FOR PLAN = 1  RATIO=  .00
   RC213B  MANE          5.00    169.60    220.00      1.44      5.00    169.60    220.00        1.44

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2008E+02 EXCESS= .0000E+00 OUTFLOW= .2009E+02 BASIN STORAGE= .1190E-02 PERCENT ERROR=    .0

 FOR PLAN = 1  RATIO=  .00
   RC213B  MANE          4.09    435.64    225.16      1.94      5.00    435.44    225.00        1.94

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5412E+02 EXCESS= .0000E+00 OUTFLOW= .5413E+02 BASIN STORAGE= .1358E-02 PERCENT ERROR=    .0

 FOR PLAN = 1  RATIO=  .00
   RC213B  MANE          4.20    394.36    222.77      1.74      5.00    386.72    225.00        1.74

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4861E+02 EXCESS= .0000E+00 OUTFLOW= .4862E+02 BASIN STORAGE= .9802E-03 PERCENT ERROR=    .0

 FOR PLAN = 1  RATIO=  .00
   RC213B  MANE          4.29    364.53    222.94      1.61      5.00    357.84    225.00        1.60

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4477E+02 EXCESS= .0000E+00 OUTFLOW= .4477E+02 BASIN STORAGE= .1384E-02 PERCENT ERROR=    .0

 FOR PLAN = 1  RATIO=  .00
   RC213B  MANE          4.38    334.95    223.27      1.44      5.00    329.67    225.00        1.44
```

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4016E+02 EXCESS= .0000E+00 OUTFLOW= .4016E+02 BASIN STORAGE= .1184E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213B	MANE	3.75	628.04	224.88	1.92	5.00	627.51	225.00	1.92

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7955E+02 EXCESS= .0000E+00 OUTFLOW= .7955E+02 BASIN STORAGE= .1227E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213B	MANE	3.84	565.63	222.96	1.73	5.00	560.95	225.00	1.73

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7141E+02 EXCESS= .0000E+00 OUTFLOW= .7142E+02 BASIN STORAGE= .1289E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213B	MANE	3.92	525.19	223.48	1.59	5.00	520.84	225.00	1.59

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6574E+02 EXCESS= .0000E+00 OUTFLOW= .6575E+02 BASIN STORAGE= .1057E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213B	MANE	4.02	476.79	225.03	1.42	5.00	476.63	225.00	1.43

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5896E+02 EXCESS= .0000E+00 OUTFLOW= .5897E+02 BASIN STORAGE= .1054E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213B	MANE	2.09	809.83	223.53	1.91	5.00	807.11	225.00	1.91

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1048E+03 EXCESS= .0000E+00 OUTFLOW= .1048E+03 BASIN STORAGE= .6439E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213B	MANE	2.15	729.63	223.25	1.71	5.00	727.04	225.00	1.71

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9414E+02 EXCESS= .0000E+00 OUTFLOW= .9414E+02 BASIN STORAGE= .7048E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213B	MANE	2.19	674.51	225.27	1.58	5.00	674.43	225.00	1.58

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8666E+02 EXCESS= .0000E+00 OUTFLOW= .8666E+02 BASIN STORAGE= .6799E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213B	MANE	2.24	610.50	225.99	1.41	5.00	610.19	225.00	1.41

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7773E+02 EXCESS= .0000E+00 OUTFLOW= .7773E+02 BASIN STORAGE= .6782E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213B	MANE	1.05	15973.61	321.59	1.30	5.00	15958.55	325.00	1.30

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3509E+04 EXCESS= .0000E+00 OUTFLOW= .3509E+04 BASIN STORAGE= .6076E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213B	MANE	1.12	13702.14	325.14	1.12	5.00	13701.50	325.00	1.12

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3004E+04 EXCESS= .0000E+00 OUTFLOW= .3004E+04 BASIN STORAGE= .6369E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213B	MANE	1.17	12128.68	326.12	.99	5.00	12126.09	325.00	.99

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2656E+04 EXCESS= .0000E+00 OUTFLOW= .2656E+04 BASIN STORAGE= .5726E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RC213B	MANE	1.25	10286.72	325.74	.84	5.00	10276.84	325.00	.84

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2253E+04 EXCESS= .0000E+00 OUTFLOW= .2253E+04 BASIN STORAGE= .5761E-02 PERCENT ERROR= .0

*** NORMAL END OF HEC-1 ***

Conceptual Flood Control Facility Hydraulic Computations
(*Designed for Ultimate Condition Flows*)

Facility P15W
Worksheet for Circular Channel

Project Description	
Worksheet	Facility P15W
Flow Element	Circular Channel
Method	Manning's Formula
Solve For	Full Flow Diameter

Input Data		
Mannings Coefficient	0.013	
Channel Slope	3.60	%
Discharge	338	cfs

Results		
Depth	4.34	ft
Diameter	52.0	in
Flow Area	14.8	ft²
Wetted Perimeter	7.85	ft
Top Width	0.00	ft
Critical Depth	4.29	ft
Percent Full	100.0	%
Critical Slope	3.30	%
Velocity	22.89	ft/s
Velocity Head	8.14	ft
Specific Energy	12.48	ft
Froude Number	0.00	
Maximum Discharge	364	cfs
Discharge Full	338	cfs
Slope Full	3.60	%
Flow Type	N/A	

Facility P19W
Worksheet for Rectangular Channel

Project Description	
Worksheet	Facility P19W
Flow Element	Rectangular Channel
Method	Manning's Formula
Solve For	Channel Depth

Input Data		
Mannings Coefficient	0.013	
Channel Slope	3.60	%
Bottom Width	5.00	ft
Discharge	489	cfs

Results		
Depth	3.51	ft
Flow Area	17.5	ft²
Wetted Perimeter	12.01	ft
Top Width	5.00	ft
Critical Depth	6.67	ft
Critical Slope	0.74	%
Velocity	27.90	ft/s
Velocity Head	12.10	ft
Specific Energy	15.60	ft
Froude Number	2.63	
Flow Type	Supercritical	

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Facility P22W
Worksheet for Rectangular Channel

Project Description	
Worksheet	Facility P22W
Flow Element	Rectangular Channel
Method	Manning's Formula
Solve For	Channel Depth

Input Data		
Mannings Coefficient	0.013	
Channel Slope	3.60	%
Bottom Width	6.00	ft
Discharge	631	cfs

Results		
Depth	3.52	ft
Flow Area	21.1	ft²
Wetted Perimeter	13.03	ft
Top Width	6.00	ft
Critical Depth	7.01	ft
Critical Slope	0.64	%
Velocity	29.90	ft/s
Velocity Head	13.90	ft
Specific Energy	17.41	ft
Froude Number	2.81	
Flow Type	Supercritical	

Facility P66W
Worksheet for Circular Channel

Project Description	
Worksheet	Facility P66W
Flow Element	Circular Channel
Method	Manning's Formula
Solve For	Full Flow Diameter

Input Data		
Mannings Coefficient	0.013	
Channel Slope	1.80	%
Discharge	99	cfs

Results		
Depth	3.12	ft
Diameter	37.4	in
Flow Area	7.6	ft²
Wetted Perimeter	7.85	ft
Top Width	0.00	ft
Critical Depth	2.96	ft
Percent Full	100.0	%
Critical Slope	1.56	%
Velocity	12.98	ft/s
Velocity Head	2.62	ft
Specific Energy	5.74	ft
Froude Number	0.00	
Maximum Discharge	106	cfs
Discharge Full	99	cfs
Slope Full	1.80	%
Flow Type	N/A	

Facility P68W
Worksheet for Rectangular Channel

Project Description	
Worksheet	Facility P68W
Flow Element	Rectangular Channel
Method	Manning's Formula
Solve For	Channel Depth

Input Data		
Mannings Coefficient	0.013	
Channel Slope	0.50	%
Bottom Width	6.00	ft
Discharge	378	cfs

Results		
Depth	5.10	ft
Flow Area	30.6	ft²
Wetted Perimeter	16.20	ft
Top Width	6.00	ft
Critical Depth	4.98	ft
Critical Slope	0.53	%
Velocity	12.35	ft/s
Velocity Head	2.37	ft
Specific Energy	7.47	ft
Froude Number	0.96	
Flow Type	Subcritical	

Facility P70W
Worksheet for Rectangular Channel

Project Description	
Worksheet	Facility P70W
Flow Element	Rectangular Channel
Method	Manning's Formula
Solve For	Channel Depth

Input Data		
Mannings Coefficient	0.013	
Channel Slope	3.00	%
Bottom Width	14.00	ft
Discharge	3,324	cfs

Results		
Depth	5.62	ft
Flow Area	78.7	ft²
Wetted Perimeter	25.24	ft
Top Width	14.00	ft
Critical Depth	12.06	ft
Critical Slope	0.41	%
Velocity	42.25	ft/s
Velocity Head	27.74	ft
Specific Energy	33.36	ft
Froude Number	3.14	
Flow Type	Supercritical	

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Facility P70AW
Worksheet for Rectangular Channel

Project Description	
Worksheet	Facility P70AW
Flow Element	Rectangular Channel
Method	Manning's Formula
Solve For	Channel Depth

Input Data		
Mannings Coefficient	0.013	
Channel Slope	3.00	%
Bottom Width	14.00	ft
Discharge	3,477	cfs

Results		
Depth	5.81	ft
Flow Area	81.3	ft²
Wetted Perimeter	25.62	ft
Top Width	14.00	ft
Critical Depth	12.42	ft
Critical Slope	0.41	%
Velocity	42.76	ft/s
Velocity Head	28.42	ft
Specific Energy	34.22	ft
Froude Number	3.13	
Flow Type	Supercritical	

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Facility P71W
Worksheet for Rectangular Channel

Project Description	
Worksheet	Facility P71W
Flow Element	Rectangular Channel
Method	Manning's Formula
Solve For	Channel Depth

Input Data		
Mannings Coefficient	0.013	
Channel Slope	1.60	%
Bottom Width	5.00	ft
Discharge	352	cfs

Results		
Depth	3.72	ft
Flow Area	18.6	ft²
Wetted Perimeter	12.45	ft
Top Width	5.00	ft
Critical Depth	5.36	ft
Critical Slope	0.65	%
Velocity	18.91	ft/s
Velocity Head	5.56	ft
Specific Energy	9.28	ft
Froude Number	1.73	
Flow Type	Supercritical	

Faciltiy P01E
Worksheet for Circular Channel

Project Description	
Worksheet	Facility P01E
Flow Element	Circular Channel
Method	Manning's Formula
Solve For	Full Flow Diameter

Input Data		
Mannings Coefficient	0.013	
Channel Slope	1.80	%
Discharge	30.00	cfs

Results		
Depth	1.99	ft
Diameter	23.9	in
Flow Area	3.1	ft²
Wetted Perimeter	0.00	ft
Top Width	0.00	ft
Critical Depth	1.86	ft
Percent Full	100.0	%
Critical Slope	1.56	%
Velocity	9.63	ft/s
Velocity Head	1.44	ft
Specific Energy	3.43	ft
Froude Number	0.00	
Maximum Discharge	32.27	cfs
Discharge Full	30.00	cfs
Slope Full	1.80	%
Flow Type	N/A	

Faciltiy P15E
Worksheet for Circular Channel

Project Description	
Worksheet	Facility P15E
Flow Element	Circular Channel
Method	Manning's Formula
Solve For	Full Flow Diameter

Input Data		
Mannings Coefficient	0.013	
Channel Slope	0.50	%
Discharge	153.00	cfs

Results		
Depth	4.66	ft
Diameter	56.0	in
Flow Area	17.1	ft²
Wetted Perimeter	0.00	ft
Top Width	0.00	ft
Critical Depth	3.60	ft
Percent Full	100.0	%
Critical Slope	0.56	%
Velocity	8.95	ft/s
Velocity Head	1.25	ft
Specific Energy	5.91	ft
Froude Number	0.00	
Maximum Discharge	164.58	cfs
Discharge Full	153.00	cfs
Slope Full	0.50	%
Flow Type	N/A	

Faciltiy P16E
Worksheet for Circular Channel

Project Description	
Worksheet	Facility P16E
Flow Element	Circular Channel
Method	Manning's Formula
Solve For	Full Flow Diameter

Input Data		
Mannings Coefficient	0.013	
Channel Slope	3.00	%
Discharge	186.00	cfs

Results		
Depth	3.59	ft
Diameter	43.0	in
Flow Area	10.1	ft²
Wetted Perimeter	0.00	ft
Top Width	0.00	ft
Critical Depth	3.52	ft
Percent Full	100.0	%
Critical Slope	2.70	%
Velocity	18.41	ft/s
Velocity Head	5.27	ft
Specific Energy	8.85	ft
Froude Number	0.00	
Maximum Discharge	200.08	cfs
Discharge Full	186.00	cfs
Slope Full	3.00	%
Flow Type	N/A	

Faciltiy P18E
Worksheet for Circular Channel

Project Description	
Worksheet	Facility P18E
Flow Element	Circular Channel
Method	Manning's Formula
Solve For	Full Flow Diameter

Input Data		
Mannings Coefficient	0.013	
Channel Slope	3.00	%
Discharge	288.00	cfs

Results		
Depth	4.23	ft
Diameter	50.7	in
Flow Area	14.0	ft²
Wetted Perimeter	0.00	ft
Top Width	0.00	ft
Critical Depth	4.16	ft
Percent Full	100.0	%
Critical Slope	2.71	%
Velocity	20.54	ft/s
Velocity Head	6.55	ft
Specific Energy	10.78	ft
Froude Number	0.00	
Maximum Discharge	309.80	cfs
Discharge Full	288.00	cfs
Slope Full	3.00	%
Flow Type	N/A	

Faciltiy P22E
Worksheet for Circular Channel

Project Description	
Worksheet	Facility P22E
Flow Element	Circular Channel
Method	Manning's Formula
Solve For	Full Flow Diameter

Input Data		
Mannings Coefficient	0.013	
Channel Slope	3.00	%
Discharge	480.00	cfs

Results		
Depth	5.12	ft
Diameter	61.4	in
Flow Area	20.6	ft²
Wetted Perimeter	0.00	ft
Top Width	0.00	ft
Critical Depth	5.05	ft
Percent Full	100.0	%
Critical Slope	2.73	%
Velocity	23.33	ft/s
Velocity Head	8.46	ft
Specific Energy	13.58	ft
Froude Number	0.00	
Maximum Discharge	516.34	cfs
Discharge Full	480.00	cfs
Slope Full	3.00	%
Flow Type	N/A	

Facility P32E
Worksheet for Rectangular Channel

Project Description	
Worksheet	Facility P32E
Flow Element	Rectangular Channel
Method	Manning's Formula
Solve For	Channel Depth

Input Data		
Mannings Coefficient	0.013	
Channel Slope	2.40	%
Bottom Width	14.00	ft
Discharge	3,503.00	cfs

Results		
Depth	6.34	ft
Flow Area	88.8	ft²
Wetted Perimeter	26.68	ft
Top Width	14.00	ft
Critical Depth	12.48	ft
Critical Slope	0.42	%
Velocity	39.46	ft/s
Velocity Head	24.20	ft
Specific Energy	30.54	ft
Froude Number	2.76	
Flow Type	Supercritical	

Facility P33E
Worksheet for Rectangular Channel

Project Description	
Worksheet	Facility P33E
Flow Element	Rectangular Channel
Method	Manning's Formula
Solve For	Channel Depth

Input Data		
Mannings Coefficient	0.013	
Channel Slope	2.40	%
Bottom Width	14.00	ft
Discharge	3,687.00	cfs

Results		
Depth	6.59	ft
Flow Area	92.2	ft²
Wetted Perimeter	27.17	ft
Top Width	14.00	ft
Critical Depth	12.92	ft
Critical Slope	0.42	%
Velocity	39.99	ft/s
Velocity Head	24.85	ft
Specific Energy	31.43	ft
Froude Number	2.75	
Flow Type	Supercritical	

Facility P34E
Worksheet for Rectangular Channel

Project Description	
Worksheet	Facility P34E
Flow Element	Rectangular Channel
Method	Manning's Formula
Solve For	Channel Depth

Input Data		
Mannings Coefficient	0.013	
Channel Slope	2.90	%
Bottom Width	14.00	ft
Discharge	3,787.00	cfs

Results		
Depth	6.26	ft
Flow Area	87.7	ft²
Wetted Perimeter	26.53	ft
Top Width	14.00	ft
Critical Depth	13.15	ft
Critical Slope	0.43	%
Velocity	43.19	ft/s
Velocity Head	28.99	ft
Specific Energy	35.26	ft
Froude Number	3.04	
Flow Type	Supercritical	

Facility P39E
Worksheet for Rectangular Channel

Project Description	
Worksheet	Facility P39E
Flow Element	Rectangular Channel
Method	Manning's Formula
Solve For	Channel Depth

Input Data		
Mannings Coefficient	0.013	
Channel Slope	2.60	%
Bottom Width	14.00	ft
Discharge	3,880.00	cfs

Results		
Depth	6.64	ft
Flow Area	93.0	ft²
Wetted Perimeter	27.28	ft
Top Width	14.00	ft
Critical Depth	13.36	ft
Critical Slope	0.43	%
Velocity	41.74	ft/s
Velocity Head	27.07	ft
Specific Energy	33.71	ft
Froude Number	2.86	
Flow Type	Supercritical	

Brent Lane Street Flow Computations

Brent Lane (Ultimate Condition) East of Ft. Apache
Worksheet for Irregular Channel

Project Description	
Worksheet	Brent D/S Fort Apache
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Channel Depth

Input Data		
Channel Slope	2.73	%
Discharge	153.00	cfs

Options	
Current Roughness Method	Improved Lotter's Method
Open Channel Weighting Method	Improved Lotter's Method
Closed Channel Weighting Method	Horton's Method

Results		
Mannings Coefficient	0.016	
Water Surface Elevation	0.75	ft
Elevation Range	0.00 to 0.63	
Flow Area	20.6	ft²
Wetted Perimeter	61.37	ft
Top Width	60.00	ft
Actual Depth	0.75	ft
Critical Elevation	1.00	ft
Critical Slope	0.46	%
Velocity	7.42	ft/s
Velocity Head	0.86	ft
Specific Energy	1.61	ft
Froude Number	2.23	
Flow Type	Supercritical	

Calculation Messages:
Water elevation exceeds lowest end station by 0.15352398 ft.

Roughness Segments		
Start Station	End Station	Mannings Coefficient
0+00.0	0+60.0	0.016

Natural Channel Points	
Station (ft)	Elevation (ft)
0+00.0	0.60
0+05.0	0.50
0+05.5	0.48
0+05.5	0.00
0+07.0	0.13
0+07.0	0.17
0+30.0	0.63
0+53.0	0.17
0+53.0	0.13
0+54.5	0.00
0+54.5	0.48

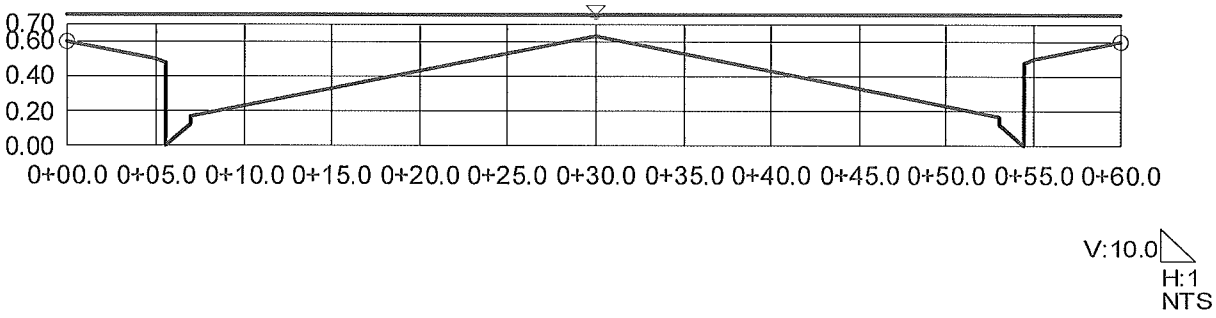
Brent Lane (Ultimate Condition) East of Ft. Apache
Worksheet for Irregular Channel

Natural Channel Points	
Station (ft)	Elevation (ft)
0+55.0	0.50
0+60.0	0.60

Brent Lane (Ultimate Condition) East of Ft. Apache
Cross Section for Irregular Channel

Project Description	
Worksheet	Brent D/S Fort Apache
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Channel Depth

Section Data		
Mannings Coefficient	0.016	
Channel Slope	2.73	%
Water Surface Elevation	0.75	ft
Elevation Range	0.00 to 0.63	
Discharge	153.00	cfs



Reference Material from CLV Northwest Neighborhood Study
(*Allowable Discharge at Horse Drive & Fort Apache Road*)

NORTHWEST NEIGHBORHOOD STUDY PHASE 2

CITY OF LAS VEGAS NEVADA

LEGEND

- EXISTING REGIONAL DETENTION BASINS
- PROPOSED REGIONAL DETENTION BASINS (Not Included In 1996 MPU)
- EXISTING REGIONAL BRIDGES
- PROPOSED REGIONAL BRIDGES
- PROPOSED REGIONAL BRIDGES (Not Included In 1996 MPU)
- EXISTING LOCAL BRIDGES
- PROPOSED REGIONAL CULVERT
- EXISTING REGIONAL CULVERT
- EXISTING LOCAL CULVERT
- EXISTING REGIONAL PIPELINE
- PROPOSED REGIONAL PIPELINE
- PROPOSED REGIONAL PIPELINE (Not Included In 1996 MPU)
- EXISTING LOCAL PIPELINE
- PROPOSED LOCAL PIPELINE
- EXISTING REGIONAL CHANNEL
- PROPOSED REGIONAL CHANNEL
- EXISTING LOCAL CHANNEL
- PROPOSED LOCAL CHANNEL
- PROPOSED REGIONAL CHANNEL (Not Included In 1996 MPU)
- EXISTING REGIONAL DIKE/LEVEE
- PROPOSED REGIONAL DIKE/LEVEE
- PROPOSED REGIONAL DIKE/LEVEE (Not Included In 1996 MPU)
- PROPOSED LOCAL DIKE/LEVEE

N W E S

800 600 400 200 0 400 800

(IN FEET)
SCALE: 1 INCH = 800 FEET

FLOW ARROW

250	10-YEAR STREET FLOW
500	100-YEAR STREET FLOW
(300)	10-YEAR FACILITY FLOW
(800)	100-YEAR FACILITY FLOW

(FLOWS IN CFS)

NOTE:

Ultimate drainage conditions are based on future CN values with all flood control facilities in place.
Regional facility identifiers were established based on the methodology used in the "1996 Clark County Regional Flood Control Master Plan Update for the Las Vegas Valley."

NOTE:

All regional facilities proposed in the "1996 Clark County Regional Flood Control Master Plan Update for the Las Vegas Valley" have been resized based on the flows developed in this study. In addition, many of these facilities have been changed from channels to reinforced concrete box culverts.

FIGURE F-8

FUTURE DRAINAGE CONDITIONS

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ENGINEERING PLANNING GIS SURVEYING CONSTRUCTION SERVICES

IF7/NW/F8.MAP

Reference Material from 2008 MPU

REGIONAL FLOOD CONTROL DISTRICT

2008 LAS VEGAS VALLEY FLOOD CONTROL MASTER PLAN UPDATE

FIGURE H-13

HYDROLOGIC SUMMARY

LEGEND

- Ultimate Development Boundary
- Watershed Boundary
- Subbasin Boundary
- Drought Ordinance Boundary
- Flow Arrows

Flood Control Facilities

- Existing Facilities
- Category A Proposed Facilities
- Category B Proposed Facilities
- Category A Remove & Replace/ Parallel Facilities
- Category B Remove & Replace/ Parallel Facilities

Type Hydrologic Soil Groups

- A Low Runoff Potential
- B Moderately Low Runoff Potential
- C Moderately High Runoff Potential
- D High Runoff Potential/Rock Outcrops

Typical Land Use

- 1 Undeveloped Land, Open Desert
- 2 Parks, Golf Courses
- 3 Rural
- 4 / 14* Low Density Residential
- 5 / 15* Medium Density Residential
- 6 / 16* High Density Residential
- 7 / 17* Public Facility, Residential
- 8 / 18* Very High Density Residential
- 9 / 19* Commerical, Retail, Casino, High Rise Condominiums
- 10 / 20* Light Industrial
- 11 / 21* Heavy Industrial
- 12 / 22* Schools
- 13 Lakes

* Drought Ordinance Applied

N

0 500 1,000 2,000 3,000 Feet

Scale: 1 inch = 2,000 feet

Refer to Figure G-2 for Aerial Source(s)

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REGIONAL FLOOD CONTROL DISTRICT

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FIGURE F-13
FLOOD CONTROL FACILITIES

LEGEND

- Ultimate Development Boundary
- Existing Facilities
- Category A Proposed Facilities
- Category B Proposed Facilities
- Local Existing Facilities
- Local Proposed Facilities
- Detention Basin
- Culvert or Bridge Crossing
- Stormdrain
- Lined Channel
- Unlined Channel
- Levee/Dike
- Natural Wash/Floodway
- ID-Mile Separator

Remove & Replace/Parallel Facilities

Category A	Category B
Channel	Channel
Stormdrain	Stormdrain
Crossing	Crossing

N

0 500 1,000 2,000 3,000
Feet

Scale: 1 inch = 2,000 feet

Refer to Figure G-2 for Aerial Source(s)

US95 I-15 I-215

1	2	3								
4	5	6								
7	8	9	10							
11	12	13	14	15	16	17				
	18	19	20	21	22	23				
	24	25	26	27	28					
	29	30	31	32	33	34				
	35	36	37	38	39	40				
	41	42	43	44	45	46				
	47	48	49	50	51	52				
	53	54	55	56						
	57	58	59							

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ID / River Mile	Status	Facility Description	Length (ft.)	Flow (cfs)	HEC-1 Node	HEC-1 Model	Tributary Area (sq.mi.)	Channel Slope (%) **
BCHU		BELTWAY CHANNEL - HUALAPAI						
0000	E	12' X 5' RCAP	853	501	CBA3-C	WEST3	0.84	1.11
0017	E	8' X 5' RCAP	1216	501	CBA3-C	WEST3	0.84	1.33
0040	E	66" RCP	60	222	DNW26-C	WEST3	0.51	1.04
0042	E	60" RCP	615	222	DNW26-C	WEST3	0.51	1.42
0054	E	54" RCP	770	222	DNW26-C	WEST3	0.51	1.23
BRDB		BRENT DRAINAGE SYSTEM						
0000	P3	36" RCP with 18" Orifice Plate	2170	37	BRDB	WEST3	2.48	0.40
0031	P3	45,080 cfs PMF Spillway		45080	CBRDB	WEST3	2.48	
0032	P3	450 ac-ft South Environmental Enhancement Area		1902	CBRDB	WEST3	2.48	
0033	P3	Energy Dissipator	100	957	CNW113-C	WEST3	1.58	
0043	P1	8' X 6' RCB	2920	957	CNW113-C	WEST3	1.58	2.10
0107	P1	8' X 6' RCB	2660	957	CNW113-C	WEST3	1.58	2.40
0157	P1	12' X 6' RCB	1260	741	CNW96-C	WEST3	0.95	0.25
CN95		CENTENNIAL PKWY CHANNEL WEST / U.S 95 BRANCH						
0000	P2	Conc Chnl 22'W 10'D 0:1 SS	2690	3340	CNWBB3-C	WEST3	3.36	2.17
0068	P1	3: 8' X 7' RCB	3380	3216	CNW103-C	WEST3	3.05	2.12
0102	P1	3: 8' X 6' RCB	1710	2888	2CNW89-C	WEST3	2.66	2.09
0167	P1	2: 10' X 6' RCB	1580	2160	2CNW71-E	WEST3	1.64	1.50
0199	P3	Conc Chnl 15'W 11'D 0:1 SS	1015	1609	2CNW72-C	WEST3	1.17	0.82
0218	P3	16' X 8' RCB	556	1609	2CNW72-C	WEST3	1.17	0.77
0257	P3	Transition Structure	100	1609	2CNW72-C	WEST3	1.17	0.77
0259	P3	16' X 8' RCB	2848	674	CNW74-C	WEST3	0.45	2.06
0313	P3	Transition Structure	240	674	CNW74-C	WEST3	0.45	1.50
0318	P3	14' X 6' RCB	797	333	NW62-S	WEST3	0.21	1.47
0333	P3	12' X 6' RCB	300	333	NW62-S	WEST3	0.21	5.50
CNGT		CENTENNIAL PKWY CHANNEL WEST / GRAND TETON BRANCH						
0000	P3	10' X 5' RCB	2290	600	CNW71-E	WEST3	0.47	2.63
0043	P0	6' X 6' RCB	3980	600	CNW71-E	WEST3	0.47	3.00
0118	E	6' X 5' RCAP	5472	363	KYLEDET*	KYLEDB	57.73	3.72
CNKC		CENTENNIAL PKWY CHANNEL WEST / KYLE CANYON BRANCH						
0000	E	12' X 4' RCB	377	999	CNW72-C	WEST3	0.71	4.58
0007	E	10' X 5' RCB	874	999	CNW72-C	WEST3	0.71	3.28
0024	E	8' X 5' RCB	1385	999	CNW72-C	WEST3	0.71	2.40
0050	P0	6' X 6' RCB	2830	999	CNW72-C	WEST3	0.71	3.00
0104	P0	6' X 5' RCB	565	452	NW45-S	WEST3	0.27	3.00
0115	P0	72" RCP	1513	452	NW45-S	WEST3	0.27	3.00
CNWE		CENTENNIAL PKWY CHANNEL WEST						
0150	P2	Conc Chnl 42'W 10'D 0:1 SS	720	4233	CNW3B3-C	WEST3	5.64	0.40
0173	P2	42' X 10' RCBC @ Torrey Pines	190	4233	CNW3B3-C	WEST3	5.64	0.40
0176	P2	Conc Chnl 32'W 12'D 0:1 SS	795	4233	CNW3B3-C	WEST3	5.64	0.40
0189	P2	Conc Chnl 32'W 10'D 0:1 SS	1845	4067	CNW2D4-C	WEST3	5.15	0.54
0226	P2	Conc Chnl 12'W 12'D 2:1 SS	1165	4067	CNW2D4-C	WEST3	5.15	1.00
0251	P2	Conc Chnl 12'W 12'D 2:1 SS	1135	3951	CNW2D3-C	WEST3	4.65	0.59
0271	P2	Conc Chnl 32'W 10'D 0:1 SS	185	3951	CNW2D3-C	WEST3	4.65	0.59
0274	E	32' X 10' RCBC @ Tenaya	130	3951	CNW2D3-C	WEST3	4.65	0.45
0277	P2	Conc Chnl 13'W 10'D 2:1 SS	590	3951	CNW2D3-C	WEST3	4.65	0.45
0287	P2	Conc Chnl 13'W 10'D 2:1 SS	605	3593	CNW2B2-C	WEST3	3.84	1.19
0301	P2	Conc Chnl 32'W 10'D 0:1 SS	235	3593	CNW2B2-C	WEST3	3.84	1.19
0304	P2	32' X 10' RCB	6510	3593	CNW2B2-C	WEST3	3.84	1.75
EKBU		ELKHORN SPRINGS AND BUFFALO						
0000	P1	78" RCP	860	375	NW134-C	WEST3	0.46	1.00
EKDB		ELKHORN SPRINGS DETENTION BASIN						
0000	E	Grass Chnl 15'W 5.8'D 3.5:1 SS	2575	238	CNW150-C	WEST3	1.41	0.39
0025	E	4' X 3' RCB	160	120	ELKBASIN	WEST3	0.84	0.50
0026	E	48" RCP	1270	120	ELKBASIN	WEST3	0.84	1.23
0049	E	60" RCP	1095	120	ELKBASIN	WEST3	0.84	0.13
0070	E	48 ac-ft Elkhorn Springs Detention Basin		629	CNW133-C	WEST3	0.84	
EKHU		ELKHORN AND HUALAPAI						
0000	E	6' X 5' RCB Overflow Structure	48	638	CNW26-C	WEST3	0.51	0.91
0001	E	6' X 5' RCAP	72	638	CNW26-C	WEST3	0.51	0.91

ID / River Mile	Status	Facility Description	Length (ft.)	Flow (cfs)	HEC-1 Node	HEC-1 Model	Tributary Area (sq.mi.)	Channel Slope (%) **
EKHU		ELKHORN AND HUALAPAI						
0003	E	6' X 4' RCAP	980	638	CNW26-C	WEST3	0.51	3.61
0020	E	6' X 5' RCAP	150	638	CNW26-C	WEST3	0.51	3.61
0023	E	8' X 5' RCAP	1200	638	CNW26-C	WEST3	0.51	0.90
GOEC		GOWAN NORTH - EL CAPITAN BRANCH						
0176	P1	78" RCP	1320	363	CCPFR-C	ALLGOW3	0.46	1.15
GONO		GOWAN NORTH SYSTEM						
0511	P1	7' X 6' RCB	1320	546	CCPHW-C	ALLGOW3	0.60	1.14
LVMD		LAS VEGAS WASH - MIDDLE						
2490	P2	2: 13' X 7' RCB	2555	2278	CNW168-C	CWEST3	4.69	0.40
2507	E	2: 13' X 9' RCB	2831	2278	CNW168-C	CWEST3	4.69	0.36
2525	P1	21' X 6' RCB	1140	1913	CNW159-C	CWEST3	3.91	0.40
2550	P1	21' X 6' RCB	1445	1664	CD161-C	CWEST3	3.41	0.40
2574	P1	21' X 6' RCB	1430	1664	CD161-C	CWEST3	3.41	0.60
2599	P1	Conc Chnl 30'W 5'D 2:1 SS	1577	1585	CNW162-C	CWEST3	3.08	0.40
2632	P1	13' X 5' RCB	1580	968	CNW138-C	WEST3	1.16	0.59
2661	P1	11' X 5' RCB	2640	968	CNW138-C	WEST3	1.16	1.00
2711	P1	8' X 5' RCB	1320	968	CNW138-C	WEST3	1.16	1.80
2737	P1	8' X 5' RCB	1320	818	CNW139-C	WEST3	0.93	1.81
2763	P1	78" RCP	1320	818	CNW139-C	WEST3	0.93	2.40
MOFA		MOCCASIN - FORT APACHE						
0024	P0	12' X 6' RCB	1520	394	DNW100-W	LOWER3	0.46	0.25
0053	P0	10' X 6' RCB	1345	258	DNW78-C	LOWER3	0.24	0.25
MOKY		MOCCASIN - KYLE CANYON BRANCH						
0078	P0	2: 13' X 7' RCB	965	1205	CNW50-E	LOWER3	1.06	0.40
0096	P0	2: 13' X 7' RCBC @ US 95	210	1066	CNW35-C	LOWER3	0.89	1.70
0100	P0	2: 13' X 7' RCB	1515	1066	CNW35-C	LOWER3	0.89	0.40
0129	P0	2: 11' X 7' RCB	675	779	CNW33-C	LOWER3	0.64	0.40
0142	P0	2: 9' X 7' RCB	430	779	CNW33-C	LOWER3	0.64	0.40
MSNV		MOUNTAIN SPA/VISTA RANCH						
0000	E	6: 12' X 5' RCBC @ Grand Teton	273	679	CNW163-C	CWEST3	1.67	0.40
0005	E	Grass Chnl 100'W 4.5'D 10:1 SS	6325	679	CNW163-C	CWEST3	1.67	0.40
0125	E	Grass Chnl 100'W 4.5'D 10:1 SS	1300	116	CNW147E	WEST3	1.54	0.40
RACO		RACEL STREET COLLECTOR						
0000	P3	96" RCP Baffled Energy Dissipator	54	497	CNW111S	WEST3	0.55	4.20
0001	P3	78" RCP	3245	497	CNW111S	WEST3	0.55	2.46
0064	P3	78" RCP	2650	423	DNW111S	WEST3	0.44	2.09
RCBC		RANCHO ROAD SYSTEM - BELTWAY CHANNEL						
0000	E	6' X 5' RCB	1062	222	FADB	WEST3	1.60	1.04
0002	E	54" RCP Outlet with 41" Orifice	503	222	FADB	WEST3	1.60	2.38
0003	E	2,341 cfs PMF Spillway		2341	FADBIN	WEST3	1.60	
0004	E	76 ac-ft Fort Apache Detention Basin		1255	FADBIN	WEST3	1.60	
0007	E	Energy Dissipator	100	1255	FADBIN	WEST3	1.60	
0009	E	12' X 6' RCBC @ Fort Apache Detention Basin	133	1255	FADBIN	WEST3	1.60	1.79
0012	E	Conc Chnl 12'W 6'-7'D 0:1 SS	1937	1255	FADBIN	WEST3	1.60	3.15
0048	E	12' X 6' RCBC @ Grand Canyon	140	1040	CMNA1	WEST3	1.32	3.15
0051	E	Conc Chnl 12'W 6'-8'D 0:1 SS	2660	1040	CMNA1	WEST3	1.32	3.44
0096	E	1: 10' X 6' and 1: 6' X 6' RCBC @ Hualapai Way	190	1040	CMNA1	WEST3	1.32	1.93
0100	E	Conc Chnl 12'W 5.5'D 0:1 SS	2085	598	CDMNA1	WEST3	0.48	2.88
0140	E	Conc Chnl 10'W 5'D 0:1 SS	2155	598	CDMNA1	WEST3	0.48	1.65
RCHB		RANCHO ROAD SYSTEM - BELTWAY						
0034	E	Conc Chnl 21'W 8'D 0:1 SS	1000	2631	CNW1C-W	WEST3	4.68	1.19
0053	E	2: 12' X 8' RCBC @ South Ramp Connector	85	2304	CDW1C1	WEST3	4.31	1.40
0054	E	Conc Chnl 21'W 8'D 0:1 SS	432	2304	CDW1C1	WEST3	4.31	1.51
0062	E	Transition Structure	130	2304	CDW1C1	WEST3	4.31	1.51
0065	E	24' X 7' RCB	480	2304	CDW1C1	WEST3	4.31	0.30
0074	E	24' X 6' RCB	50	2226	CNWBC6-C	WEST3	4.17	0.30
0075	E	20' X 6' RCBC @ Beltway	428	2226	CNWBC6-C	WEST3	4.17	2.81
0083	P2	20' X 6' RCB	950	2226	CNWBC6-C	WEST3	4.17	2.49
0101	P2	Conc Chnl 20'W 7'D 0:1 SS	980	2226	CNWBC6-C	WEST3	4.17	2.38
0120	E	20' X 6' RCBC @ Grand Montecito	120	2226	CNWBC6-C	WEST3	4.17	1.00

ID / River Mile	Status	Facility Description	Length (ft.)	Flow (cfs)	HEC-1 Node	HEC-1 Model	Tributary Area (sq.mi.)	Channel Slope (%) **
RCHB		RANCHO ROAD SYSTEM - BELTWAY						
0122	P2	Conc Chnl 16'-20'W 6'D 0:1 SS	350	2226	CNWBC6-C	WEST3	4.17	1.84
0130	P2	Conc Chnl 16'W 6'D 0:1 SS	1012	2226	CNWBC6-C	WEST3	4.17	2.67
0149	P2	Conc Chnl 16'W 6'-7'D 0:1 SS	87	1888	CNWBC3	WEST3	3.75	2.27
0151	P2	Conc Chnl 16'W 7'D 0:1 SS	1255	1888	CNWBC3	WEST3	3.75	2.65
0171	E	16' X 6' RCBC @ El Capitan Way	234	1888	CNWBC3	WEST3	3.75	1.75
0175	E	Conc Chnl 14'W 7'D 0:1 SS	1220	1888	CNWBC3	WEST3	3.75	2.93
0198	E	Conc Chnl 14'W 7'D 0:1 SS	225	1402	CNWBA6-C	WEST3	3.61	2.93
0227	P1	11' X 8' RCB	1885	1402	CNWBA6-C	WEST3	3.61	2.17
0250	P1	11' X 8' RCB	3200	1402	CNWBA6-C	WEST3	3.61	1.06
0295	P1	7' X 6' RCB	5525	973	CNW66-C	WEST3	1.75	3.30
TSDB		TULE SPRINGS DRAINAGE SYSTEM						
0000	E	2: 10' X 4' RCBC @ Echo Grande	100	26	TULEDB	WEST3	1.35	1.04
0002	P3	36" RCP with 22" Orifice Plate	320	26	TULEDB	WEST3	1.35	0.33
0010	P3	14,013 cfs PMF Spillway		14013	CTULEDB	WEST3	1.35	
0011	P3	117 ac-ft North Environmental Enhancement Area		804	CTULEDB	WEST3	1.35	
0012	P3	Energy Dissipator	260	376	CNW148-C	WEST3	0.52	
0023	P1	84" RCP	1320	376	CNW148-C	WEST3	0.52	0.80
0059	P1	78" RCP	2640	376	CNW148-C	WEST3	0.52	1.03

** The HEC-1 node shown identifies the controlling concentration point for the associated facility and is located upstream of this facility due to decreasing peak flow with increasing tributary area caused by storm distribution transitions, depth area reduction factors, or attenuation of flow from routing.*

*** As-built or design slopes were used when available. All other slopes are based on existing topography. The user should verify the facility slope listed prior to performing any facility specific analysis.*

^ For parallel facilities, the existing facility flow equals its normal depth capacity, and the proposed parallel facility flow equals the remaining flow (i.e., HEC-1 Node flow = existing facility normal depth capacity + proposed parallel facility flow).

REGIONAL FLOOD CONTROL DISTRICT

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FACILITY INVENTORY FIGURE F - 13

LEGEND

ID (Facility Identifier) AABB
- Parent Stream Name
- Stream Name

River Mile 0000
- Distance Above Confluence with Parent Stream (Miles)
- Miles in Hundredths

Existing Facility..... E
Proposed or Modified Facility..... P
Contingency Level
- Category B..... P0
- Master Plan..... P1
- Preliminary Design..... P2
- Design..... P3

Bottom Width..... W

Depth..... D

Side Slope, H:V..... SS

Construction Features

- Cast in Place Concrete Pipe..... CIPCP
- Corrugated Metal Arch Pipe Culvert..... CMAP
- Corrugated Metal Pipe Culvert..... CMPC
- High Density Polyethylene..... HDPE
- Horizontal Elliptical Reinforced Concrete Pipe..... HERCP
- Reinforced Concrete Arch Pipe..... RCAP
- Reinforced Concrete Arch Culvert..... RCAC
- Reinforced Concrete Box..... RCB
- Reinforced Concrete Box Culvert..... RCBC
- Reinforced Concrete Pipe..... RCP
- Reinforced Concrete Pipe Culvert..... RCPC
- Storm Sewer Pipe..... SSP

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MASTER PLAN UPDATE

FIGURE F- 8

FLOOD CONTROL FACILITIES

LEGEND

- Ultimate Development Boundary
- Existing Facilities
- Category A Proposed Facilities
- Category B Proposed Facilities
- Local Existing Facilities
- Local Proposed Facilities
- Detention Basin
- Culvert or Bridge Crossing
- Stormdrain
- Lined Channel
- Unlined Channel
- Levee/Dike
- Natural Wash/Floodway
- ID-Mile Separator

Remove & Replace/Parallel Facilities

Category A	Category B
Channel	Channel
Stormdrain	Stormdrain
Crossing	Crossing

N

0 500 1,000 2,000 3,000
Feet

Scale: 1 inch = 2,000 feet

Refer to Figure G-2 for Aerial Source(s)

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ID / River Mile	Status	Facility Description	Length (ft.)	Flow (cfs)	HEC-1 Node	HEC-1 Model	Tributary Area (sq.mi.)	Channel Slope (%) **
BUUN		BUFFALO AND UNKNOWN						
0000	P0	3: 9' X 8' RCB	2620	2239	C125A-11	LOWER3	1.80	0.38
0050	P0	3: 9' X 8' RCB	2735	1949	C125A-10	LOWER3	1.55	0.36
0102	P0	2: 6' X 6' RCB	2685	1626	C125A-9	LOWER3	1.28	2.97
0153	P0	2: 9' X 8' RCB	2675	1314	C125A-7	LOWER3	1.02	0.38
LVBU		UPPER LAS VEGAS WASH - BUFFALO BRANCH						
0000	P0	3: 9' X 9' RCB	1640	4363	C125A-13	LOWER3	4.68	1.21
0030	P0	3: 9' X 8' RCB	2660	4363	C125A-13	LOWER3	4.68	1.95
0080	P0	2: 7' X 6' RCB	2680	2066	C125B-4	LOWER3	2.64	3.54
0130	P0	7' X 7' RCB	2530	1454	C125B-2	LOWER3	2.14	4.15
LVMO		LAS VEGAS WASH - MOCCASIN						
0000	P1	Conc Chnl 30'W 13'D 0:1 SS	7530	12709	CNW130-W	LOWER5	77.80	2.10
0144	P1	Conc Chnl 27'W 13'D 0:1 SS	2125	12637	2CNW64-C	LOWER5	76.54	3.10
0184	P1	Conc Chnl 27'W 12.5'D 0:1 SS	2230	12439	CNW64-C	LOWER5	75.49	3.10
0226	P1	Conc Chnl 27'W 12.5'D 0:1 SS	2500	11853	CNW51-C	LOWER5	71.25	3.10
0276	P1	Bridge 30'W 10'D	400	11837	2C213B-5	LOWER5	70.94	3.10
0280	P1	Conc Chnl 16'W 8'D 0:1 SS	3500	3095	CNW23-C	LOWER3	5.71	2.86
LVUP		UPPER LAS VEGAS WASH						
0976	E	Floodway	7000	14661	ULWIN	LOWER5	110.99	0.71
1076	E	Unlined Chnl 300'W 8.5'D 3:1 SS	9200	13643	3CA-15	LOWER5	91.52	0.80
1077	E	Soil Cement Levee 8.5' with 300'W Chnl	9200	13643	3CA-15	LOWER5	91.52	0.82
MOFA		MOCCASIN - FORT APACHE						
0000	P0	19' X 6' RCB	1250	936	CNW64-E	LOWER3	0.90	0.25
0024	P0	12' X 6' RCB	1520	394	DNW100-W	LOWER3	0.46	0.25
0053	P0	10' X 6' RCB	1345	258	DNW78-C	LOWER3	0.24	0.25
MOKY		MOCCASIN - KYLE CANYON BRANCH						
0000	P1	2: 13' X 5' RCB	4120	1205	CNW50-E	LOWER3	1.06	0.40
0078	P0	2: 13' X 7' RCB	965	1205	CNW50-E	LOWER3	1.06	0.40
0096	P0	2: 13' X 7' RCBC @ US 95	210	1066	CNW35-C	LOWER3	0.89	1.70
0100	P0	2: 13' X 7' RCB	1515	1066	CNW35-C	LOWER3	0.89	0.40
MORC		RANCHO/MOCCASIN						
0000	P0	Conc Chnl 34'W 13'D 0:1 SS	3700	11711	C213B-5	LOWER5	65.23	1.00
MOSM		MOCCASIN AND SHEEP MOUNTAIN PARKWAY						
0000	P1	12' X 9' RCB	6530	3751	CNW50-W	LOWER3	4.10	3.06
TSDB		TULE SPRINGS DRAINAGE SYSTEM						
0023	P1	84" RCP	1320	376	CNW148-C	WEST3	0.52	0.80
0059	P1	78" RCP	2640	376	CNW148-C	WEST3	0.52	1.03
UPEA		UPPER LAS VEGAS WASH - EAST						
0100	P0	Transition Structure	315	4132	2C125B-5	LOWER4	10.83	0.25
0105	P0	Conc Chnl 60'W 6.5'D 4:1 SS	787	4132	2C125B-5	LOWER4	10.83	0.25
0106	P0	Unlined Levee 6.5'	787	4132	2C125B-5	LOWER4	10.83	2.47
0120	P0	Conc Chnl 60'W 5'D 4:1 SS	3318	4132	2C125B-5	LOWER4	10.83	3.61
0121	P0	Unlined Levee 6'	2831	4132	2C125B-5	LOWER4	10.83	3.36
0140	P0	Unlined Levee 8'	6050	1925	C117	LOWER3	3.87	2.39
0141	P0	Unlined Levee 8'	4100	3284	C125B-5	LOWER3	6.97	0.90
0151	P0	Conc Chnl 50'-60'W 5'D 4:1 SS	469	1925	C117	LOWER3	3.87	2.64
0152	P0	Conc Chnl 50'W 5'D 4:1 SS	4330	3284	C125B-5	LOWER3	6.97	0.90
0160	P0	Conc Chnl 50'W 5'D 4:1 SS	5614	1925	C117	LOWER3	3.87	2.24
UPWE		UPPER LAS VEGAS WASH - WEST						
0000	E	Floodway	30000	14272	2C116-7	LOWER5	105.83	1.30
0424	P0	Riprap Levee 11.5'	12725	5837	C126B-2	SHEEP5	30.77	1.30
0436	P0	3,385 ac-ft Northwest Detention Basin		16866	NWDBIN	NWDB5	199.98	
0447	P0	Riprap Chnl 200'W 5'D 3:1 SS	12740	5837	C126B-2	SHEEP5	30.77	1.00

** The HEC-1 node shown identifies the controlling concentration point for the associated facility and is located upstream of this facility due to decreasing peak flow with increasing tributary area caused by storm distribution transitions, depth area reduction factors, or attenuation of flow from routing.*

*** As-built or design slopes were used when available. All other slopes are based on existing topography. The user should verify the facility slope listed prior to performing any facility specific analysis.*

^ For parallel facilities, the existing facility flow equals its normal depth capacity, and the proposed parallel facility flow equals the remaining flow (i.e., HEC-1 Node flow = existing facility normal depth capacity + proposed parallel facility flow).

REGIONAL FLOOD CONTROL DISTRICT

2008 LAS VEGAS VALLEY FLOOD CONTROL MASTER PLAN UPDATE

FACILITY INVENTORY FIGURE F - 8

LEGEND

ID (Facility Identifier) AABB
- Parent Stream Name
- Stream Name

River Mile 0000
- Distance Above Confluence with Parent Stream (Miles)
- Miles in Hundredths

Existing Facility..... E
Proposed or Modified Facility..... P
Contingency Level
- Category B..... P0
- Master Plan..... P1
- Preliminary Design..... P2
- Design..... P3

Bottom Width..... W

Depth..... D

Side Slope, H:V..... SS

Construction Features

Cast in Place Concrete Pipe..... CIPCP	Reinforced Concrete Arch Culvert..... RCAC
Corrugated Metal Arch Pipe Culvert..... CMAP	Reinforced Concrete Box..... RCB
Corrugated Metal Pipe Culvert..... CMPC	Reinforced Concrete Box Culvert..... RCBC
High Density Polyethylene..... HDPE	Reinforced Concrete Pipe..... RCP
Horizontal Elliptical Reinforced Concrete Pipe..... HERCP	Reinforced Concrete Pipe Culvert..... RCPC
Reinforced Concrete Arch Pipe..... RCAP	Storm Sewer Pipe..... SSP

PBS&J PB

Reference Material from G.C. Wallace Master Drainage Study

Existing Condition

DS 4091
12/15/06

RESPONSE TO COMMENTS ON THE MASTER DRAINAGE STUDY FOR KYLE CANYON

$400.00
6-06

784-016-1
784-016-2

December 2006

Prepared For:

Kyle Acquisition Group, LLC
c/o Landtek, LLC
3425 Cliff Edge Shadow Pkwy; Suite 250
Las Vegas, Nevada 89129
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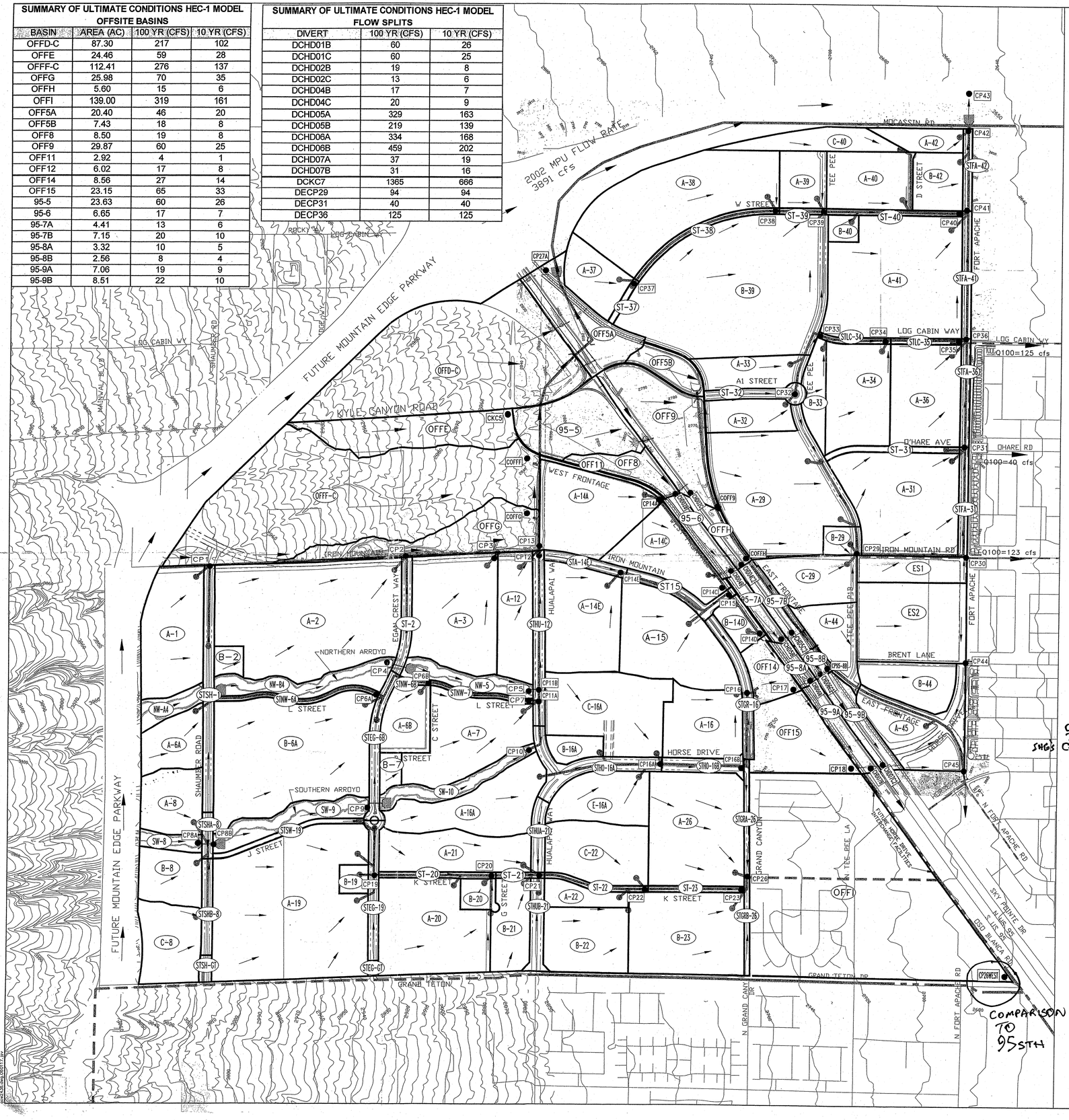
G. C. WALLACE COMPANIES
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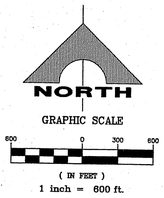
SUMMARY OF ULTIMATE CONDITIONS HEC-1 MODEL OFFSITE BASINS

BASIN	AREA (AC)	100 YR (CFS)	10 YR (CFS)
OFFD-C	87.30	217	102
OFFE	24.46	59	28
OFFF-C	112.41	276	137
OFFG	25.98	70	35
OFFH	5.60	15	6
OFFI	139.00	319	161
OFF5A	20.40	46	20
OFF5B	7.43	18	8
OFF8	8.50	19	8
OFF9	29.87	60	25
OFF11	2.92	4	1
OFF12	6.02	17	8
OFF14	8.56	27	14
OFF15	23.15	65	33
95-5	23.63	60	26
95-6	6.65	17	7
95-7A	4.41	13	6
95-7B	7.15	20	10
95-8A	3.32	10	5
95-8B	2.56	8	4
95-9A	7.06	19	9
95-9B	8.51	22	10

SUMMARY OF ULTIMATE CONDITIONS HEC-1 MODEL FLOW SPLITS

DIVERT	100 YR (CFS)	10 YR (CFS)
DCHD01B	60	26
DCHD01C	60	25
DCHD02B	19	8
DCHD02C	13	6
DCHD04B	17	7
DCHD04C	20	9
DCHD05A	329	163
DCHD05B	219	139
DCHD06A	334	168
DCHD06B	459	202
DCHD07A	37	19
DCHD07B	31	16
DCKC7	1365	666
DECP29	94	94
DECP31	40	40
DECP36	125	125





LEGEND

- SUBBASIN BOUNDARY
- A-1 — ONSITE SUBBASIN NAME
- FLOW DIRECTION
- CP6 — COMBINATION POINT

SUMMARY OF ULTIMATE CONDITIONS HEC-1 MODEL CONCENTRATION POINTS

CONCENTRATION POINT	100 YR (CFS)	10 YR (CFS)
CHD02B	19	8
CHD02C	20	9
CHD04B	17	7
CHD04B2	13	6
CHD04C	22	10
CHD04C2	2	1
CHD5B	341	169
CHD05B2	129	38
CHD05C	331	164
CHD05C2	331	164
CHD06B	459	20
CHD06B2	19	9
CHD06C	661	330
CHD06C2	661	330
CHD07B	54	27
CHD07B2	22	11
CHD07C	687	339
CHD07C2	687	339
CKC5	1365	666
COFFF	1325	650
COFFG	1070	525
COFFH	164	68
COFF9	145	52
CP1	100	51
CP2	314	161
CP3	406	207
CP4	36	12
CP5	49	16
CP8A	215	110
CP8B	264	135
CP7	356	182
CP8A	89	44
CP8B	151	75
CP9	174	83
CP10	182	85
CP11A	535	257
CP11B	584	273
CP12	628	290
CP13	1011	497
CP14A	81	38
CP14B	92	44
CP14C	134	64
CP14D	329	163
CP14E	83	43
CP15	315	156
CP16	316	161
CP16A	240	123
CP16B	249	127
CP17	334	169
CP18	65	33
CP19	251	128
CP20	369	188
CP21	490	250
CP22	627	319
CP23	725	368
CP26	840	427
CP26WEST	2039	1139
CP27A	1562	786
CP29	344	149
CP30	123	108
CP31	345	97
CP32	40	19
CP33	87	42
CP34	150	71
CP35	150	71
CP36	508	146
CP37	36	17
CP38	169	80
CP39	390	183
CP40	471	220
CP41	928	332
CP42	936	342
CP43	2446	1126
CP44	154	78
CP45	108	54
CP95-8B	28	13

SUMMARY OF ULTIMATE CONDITIONS HEC-1 MODEL ONSITE BASINS EAST

BASIN	AREA (AC)	100 YR (CFS)	10 YR (CFS)
A-29	53.63	132	62
A-31	41.38	100	47
A-32	10.22	27	12
A-33	12.26	31	15
A-34	24.12	60	28
A-36	25.75	63	30
A-37	12.08	32	15
A-38	51.73	127	60
A-39	10.11	25	12
A-40	18.53	47	22
A-41	56.97	130	60
A-42	6.61	18	8
A-44	12.29	33	17
A-45	22.51	62	32
B-29	4.08	11	5
B-33	7.51	19	9
B-39	87.53	194	90
B-40	3.03	9	4
B-42	10.78	27	13
B-44	13.59	37	19
C-29	16.08	45	22
C-40	11.55	29	14
ES1	11.05	29	14
ES2	31.35	84	43
ST-31	3.03	9	5
ST-32	4.36	14	7
ST-37	1.10	4	2
ST-38	3.69	11	5
ST-39	1.06	4	2
ST-40	2.70	8	4
STFA-31	3.72	10	5
STFA-36	3.62	10	5
STFA-41	4.31	11	5
STFA-42	2.83	7	4
STLC-34	1.64	5	3
STLC-35	1.57	2	1

SUMMARY OF ULTIMATE CONDITIONS HEC-1 MODEL ONSITE BASINS WEST

BASIN	AREA (AC)	100 YR (CFS)	10 YR (CFS)
A-1	27.22	76	39
A-2	71.82	197	101
A-3	35.23	95	49
A-6A	11.81	35	18
A-6B	11.76	34	17
A-7	29.87	83	43
A-8	14.02	42	21
A-12	16.35	44	22
A-14A	29.80	77	37
A-14C	20.80	54	27
A-14D	13.30	37	18
A-14E	27.70	75	38
A-15	31.60	86	44
A-16	19.50	53	27
A-16A	25.22	71	36
A-19	77.33	219	111
A-20	36.02	103	53
A-21	21.14	60	31
A-22	6.46	19	10
A-26	38.72	103	52
B-2	3.01	10	5
B-6A	62.71	172	88
B-7	2.95	10	5
B-8	12.33	39	20
B-14D	5.50	17	9
B-16A	4.81	15	8
B-19	3.00	10	5
B-20	4.10	12	6
B-21	12.50	35	18
B-22	19.94	57	29
B-23	34.61	95	49
C-8	17.28	49	24
C-16A	31.71	86	44
C-22	21.62	60	31
D-16A	3.05	9	5
E-16A	16.99	47	24
NW-A4	5.12	12	4
NW-B4	12.37	27	11
NW-5	8.41	18	7
ST-2	4.48	13	7
ST-15	4.90	16	8
ST-20	2.71	9	5
ST-21	1.08	4	2
ST-22	2.34	8	4
ST-23	2.13	7	4
STA-14E	3.50	12	6
STEG-6B	6.02	18	9
STEG-19	5.63	16	8
STEG-GT	0.57	2	1
STGR-16	6.09	18	10
STGRA-26	2.55	7	4
STGRB-26	1.94	6	3
STHO-16A	9.25	30	16
STHO-16B	4.41	15	8
STHU-12	7.44	19	10
STHUA-21	3.63	10	5
STHUB-21	4.96	14	8
STNW-6A	3.17	10	5
STNW-6B	0.61	2	1
STNW-7	1.97	7	4
STSH-1	9.71	24	12
STSHA-8	1.78	6	3
STSHB-8	3.86	12	6
STSH-GT	1.19	4	2
STSW-19	2.95	10	5
SW-8	3.66	11	6
SW-9	11.84	27	11
SW-10	8.60	18	7

* COMPARISON TO CHD05B SHG's

This grading plan is a part of drainage study #4021 which was received by City of Las Vegas on 5/25/07 and approved on 6/18/07. Page 1 of 6

DESIGN:
DRAWN:
CHECK:
ISSUE DATE:
ISSUE EDITOR:
PLOT DATE: 05-24-07
PLOT TIME: 16:00:28

REV	DATE	DESCRIPTION	DATE	AGEN. APP.	DATE	DCM. APP.	DATE

G.C. WALLACE COMPANIES
ENGINEERS | PLANNERS | SURVEYORS
1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146
T: 702.804.2000 - F: 702.804.2299 - GCWALLACE.COM

H:\2701\784-015\dwg\Hydro\master-topo\ote\figures\Fig-6U.dwg

KYLE ACQUISITION GROUP, LLC.
KYLE CANYON MASTER DRAINAGE STUDY - UPDATE
FIGURE 6U
ULTIMATE CONDITIONS DRAINAGE MAP

DRAWING
FIG6U
SHT OF SHTS

Ultimate Condition

Rec'd: 5/25/07
DS4091-1
G-06
$400.

UPDATE TO THE MASTER DRAINAGE STUDY FOR KYLE CANYON

784-016

May 2007

Prepared For:

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Las Vegas, Nevada 89129
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Fax: (702) 645-8852

G. C. WALLACE COMPANIES
ENGINEERS | PLANNERS | SURVEYORS

```
1*****************************************
*                                       *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
*              JUN   1998               *
*            VERSION 4.1                *
*                                       *
*  RUN DATE   22MAY07  TIME  10:05:12   *
*                                       *
*****************************************
```

```
*****************************************
*                                       *
*    U.S. ARMY CORPS OF ENGINEERS       *
*    HYDROLOGIC ENGINEERING CENTER      *
*         609 SECOND STREET             *
*       DAVIS, CALIFORNIA 95616         *
*           (916) 756-1104              *
*                                       *
*****************************************
```

```
X     X  XXXXXXX   XXXXX           X
X     X  X        X     X         XX
X     X  X        X                X
XXXXXXX  XXXX     X        XXXXX   X
X     X  X        X                X
X     X  X        X     X          X
X     X  XXXXXXX   XXXXX           XXX
```

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM


```
          LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
                    *DIAGRAM
*** FREE ***
               1    ID   ************************************************************
               2    ID   * ..................................................... *
               3    ID   * :                                                   : *
               4    ID   * :              KYLE CANYON WEST                     : *
               5    ID   * :                                                   : *
               6    ID   * :         UPDATED ULTIMATE CONDITIONS FOR TOWN CENTER : *
               7    ID   * :...................................................: *
               8    ID   * :              RETURN PERIOD_ _ _ _100 & 10 -YEAR   : *
               9    ID   * :              DISTRIBUTION_ _ _ _ 6-HOUR SDN3      : *
              10    ID   * :              PROJECT NO_ _ _ _ _ 784.016          : *
              11    ID   * :              FILENAME_ _ _ _ _ _ 016-ULT.H1       : *
              12    ID   * :              DATE MODELED_ _ _ _ 5-18-07          : *
              13    ID   * :              MODELED BY_ _ _ _ _     RJR          : *
              14    ID   * :...................................................: *
              15    ID   * :                                                   : *
              16    ID   * :...................................................: *
              17    ID   ************************************************************
              18    ID  SPECIAL NOTES:
              19    ID
              20    ID  1.  DUE TO THE NUMBER OF DIVERSIONS AND THE FACT THAT TRIBUTARY AREA IS
              21    ID      NOT CARRIED WITH A DIVERTED FLOW, IT MAY BE DIFFICULT TO DETERMINE THE
              22    ID      CORRECT DARF TO USE FOR CERTAIN CONCENTRATION POINTS, HOWEVER, AS A
              23    ID      GENERAL RULE TRIBUTARY AREA WAS MANUALLY CARRIED WITH A DIVERTED
              24    ID      FLOW OR ESTIMATED BASED ON THE SIZE OF THE UPSTREAM WATERSHED AND THE
              25    ID      QUANTITY OF FLOW.
              26    ID
              27    ID
              28    ID    JR CARDS CONTAIN DARFS BASED ON THE FOLLOWING VALUES:
              29    ID
              30    ID
              31    ID
              32    ID                              AREA      DARF
              33    ID                            SQ.MI.
              34    ID
              35    ID                          0.0 - 0.5    1.00
              36    ID                          0.5 - 1.0    0.98
              37    ID                          1.0 - 2.0    0.95
              38    ID                          2.0 - 4.0    0.92
              39    ID                          4.0 - 6.0    0.91
              40    ID                          6.0 - 8.0    0.89
              41    ID
              42    ID
              43    ID
              44    ID
              45    IT       5       0       0     300
              46    IO       5       0       0
              47    IN       5       0       0
              48    JR    PREC       1    0.98    0.95    0.92    0.91    0.89    0.57
                    *
```



```
          LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
              49    KK     A-1
```

```
 363          DT   DCKC7
 364          DI      0     100     500    1000    5000
 365          DQ      0     100     500    1000    5000
              *

 366          KK   A-14A
 367          KM                AREA  29.8 AC
 368          PB   2.77
 369          BA   .0466
 370          LS      0    92.7
 371          UD    .125
              *

 372          KK   OFF11
 373          KM                AREA  2.9 AC
 374          PB   2.77
 375          BA  0.0046
 376          LS      0    77.4
 377          UD    .093
              *

 378          KK   CP14A
 379          KM   COMBINE A-14A AND OFF11
 380          HC      2
              *
```



```
LINE          ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

 381          KK  RCP14A
 382          KM   ROUTE TO CP14C
 383          RD    1320   .0182    0.02       0    TRAP       0      10
              *

 384          KK   A-14C
 385          KM                AREA 20.8 AC
 386          PB   2.77
 387          BA   .0325
 388          LS      0    93.5
 389          UD    .136
              *

 390          KK   CP14C
 391          KM   COMBINE A-14C AND CP14A
 392          HC      2
              *

 393          KK   A-14E
 394          KM                AREA  27.7 AC
 395          PB   2.77
 396          BA   .0433
 397          LS      0    94.7
 398          UD    .131
              *

 399          KK STA-14E
 400          KM                AREA  3.5 AC
 401          PB   2.77
 402          BA   .0054
 403          LS      0    95.8
 404          UD    .064
              *

 405          KK   CP14E
 406          KM   COMBINE STA-14E AND A-14E
 407          HC      2
              *

 408          KK  RCP14E
 409          KM   ROUTE TO CP15
 410          RD    1488     .03    .016       0    TRAP       0      50
              *

 411          KK    ST15
 412          KM                AREA  4.9 AC
 413          PB   2.77
 414          BA   .0077
 415          LS      0    95.8
 416          UD    .080
              *
```



```
LINE          ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

 417          KK    A-15
 418          KM                AREA  31.6 AC
 419          PB   2.77
 420          BA   .0494
 421          LS      0    94.7
 422          UD    .131
              *

 423          KK    CP15
```

```
424          KM   COMBINE CP14C, CP14E, A-15 AND ST15
425          HC        4
             *

426          KK   B-14D
427          KM             AREA      5.5
428          PB    2.77
429          BA   .0086
430          LS        0     94.7
431          UD    .080
             *

432          KK   CP14D
433          KM   COMBINE B-14D AND CP15
434          HC        2
             *

435          KK  DCP14D
436          KM   FLOW SPLIT AT CULVERT
437          KM   DIVERSION TO THE OTHER SIDE OF FRONTAGE ROAD
438          DT  DCHD05
439          DI        0      100      200      300
440          DQ        0      100      200      300
             *

441          KK  RCP14D
442          KM   ROUTE TO CP17
443          RD      785      2.3      .02        0    TRAP        0       10
             *

444          KK   A-16A
445          KM             AREA  25.2 AC
446          PB     2.86
447          BA   0.0394
448          LS        0     94.6
449          UD    .127
             *

450          KK  RA-16A
451          KM   ROUTE A-16A TO CP16A
452          KM   LENGTH  SLOPE   n-VALUE          SHAPE   DIAMETER
453          RD    1484    .030    .013        0    CIRC        5
             *
```



```
LINE         ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

454          KK   B-16A
455          KM             AREA  4.8 AC
456          PB     2.81
457          BA    .0075
458          LS        0     94.6
459          UD     .081
             *

460          KK  RB-16A
461          KM   ROUTE B-16A TO CP16A.
462          KM   LENGTH  SLOPE   n-VALUE          SHAPE   DIAMETER
463          RD     787    .030    .013        0    CIRC        5
             *

464          KK   C-16A
465          KM             AREA 31.7 AC
466          PB     2.80
467          BA    .0495
468          LS        0     94.6
469          UD     .140
             *

470          KK   E-16A
471          KM             AREA  17.0 AC
472          PB     2.82
473          BA   0.0265
474          LS        0     94.6
475          UD     .121
             *

476          KKSTHO-16A
477          KM             AREA  9.3 AC
478          PB     2.81
479          BA   0.0145
480          LS        0     95.6
481          UD     .081
             *

482          KK   CP16A
483          KM   COMBINE A-16A, B-16A, C-16A, E-16A, AND STHO-16A
484          HC        5
             *

485          KK  RCP16A
486          KM   ROUTE CP16A TO CP16B
487          KM   LENGTH  SLOPE   n-VALUE          SHAPE   DIAMETER
488          RD    1037    .030    .013        0    CIRC        5
```

```
 977          LS       0    94.6
 978          UD    .157
              *

 979          KKSTGRA-26
 980          KM            AREA  2.5 AC
 981          PB    2.78
 982          BA  0.0040
 983          LS       0    95.7
 984          UD    .138
              *

 985          KKSTGRB-26
 986          KM            AREA  1.9 AC
 987          PB    2.81
 988          BA  0.0030
 989          LS       0    95.7
 990          UD    .101
              *
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LINE          ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

 991          KK    CP26
 992          KM   COMBINE CP23, A-26, STGRA-26 AND STGRB-26
 993          HC       4
              *

 994          KK STEG-GT
 995          KM            AREA  0.6 AC
 996          PB    2.95
 997          BA  0.0009
 998          LS       0    95.3
 999          UD    .050
              *

1000          KK STSH-GT
1001          KM            AREA  1.2 AC
1002          PB    2.97
1003          BA  0.0019
1004          LS       0    95.5
1005          UD    .062
              *

1006          KK    OFFI
1007          KM            AREA  139.0 AC
1008          PB    2.78
1009          BA  0.2172
1010          LS       0    94.5
1011          UD    .219
              *

1012          KK  NW28-C
1013          BA   0.495
1014          PB    3.04
1015          LS       0    85.7
1016          UD   0.197
              *

1017          KK DNW71-C
1018          KM  REMAINING 81 CFS FROM DNW71-C TO KYLE CANYON
1019          KM  OUTFALL IN PROPOSED LOCAL FACILITY
1020          DT  DNW28-
1021          DI       0      82     100     500    1000    5000
1022          DQ       0       1      19     419     919    4919
              *

1023          KKRDNW71-C
1024          KM  ROUTE DNW71-C TO CNW71-C
1025          KM  FACILITY = CENTENNIAL PARKWAY CHANNEL WEST/GRAND TETON BRANCH
1026          KM  FACILITY ID-MILE = CNGT 0000,0067,0118
1027          KM  LINING = RCP
1028          RD    8920  0.0341   0.013       0    CIRC       6       0
              *
```

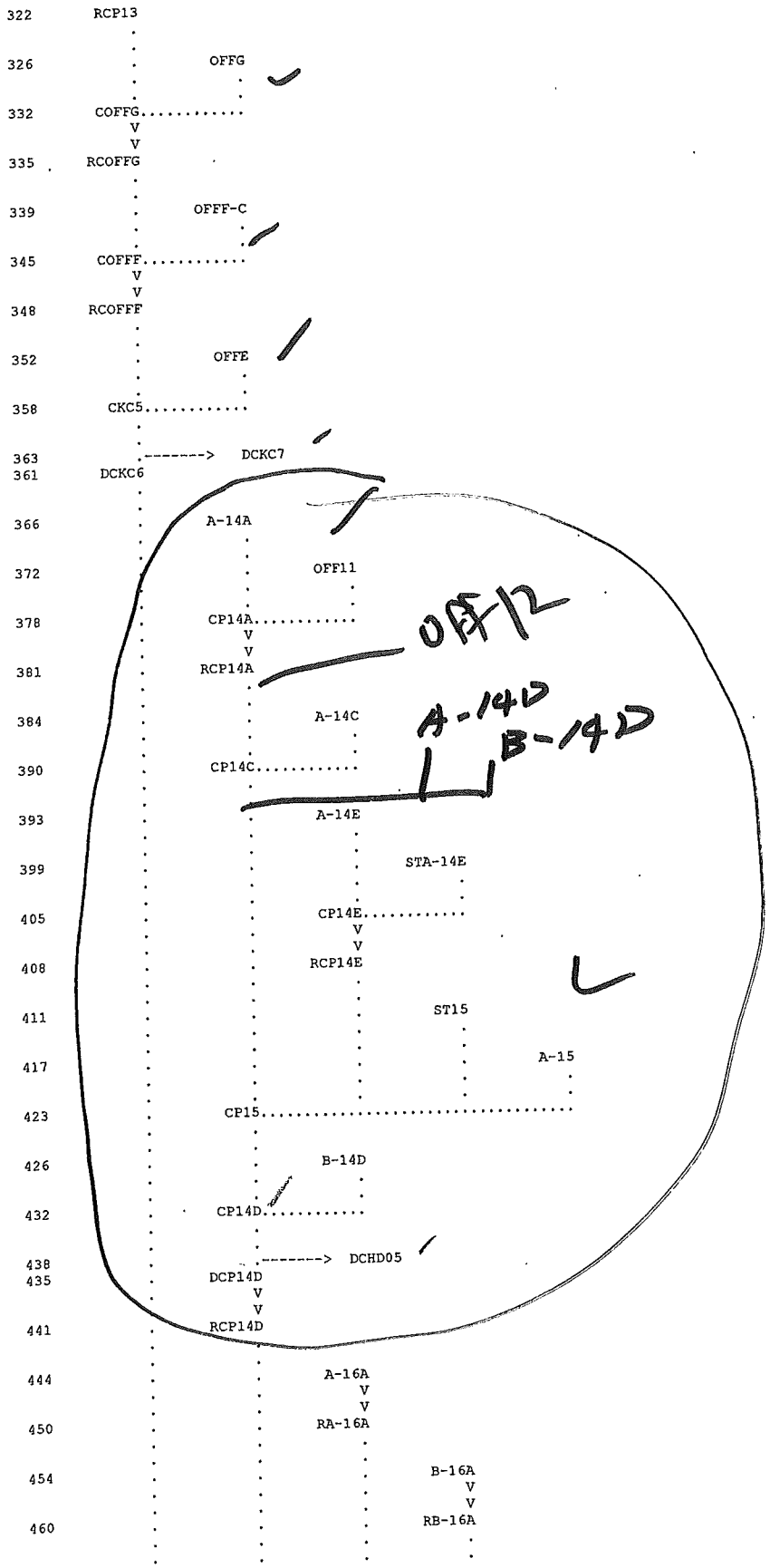


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LINE          ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

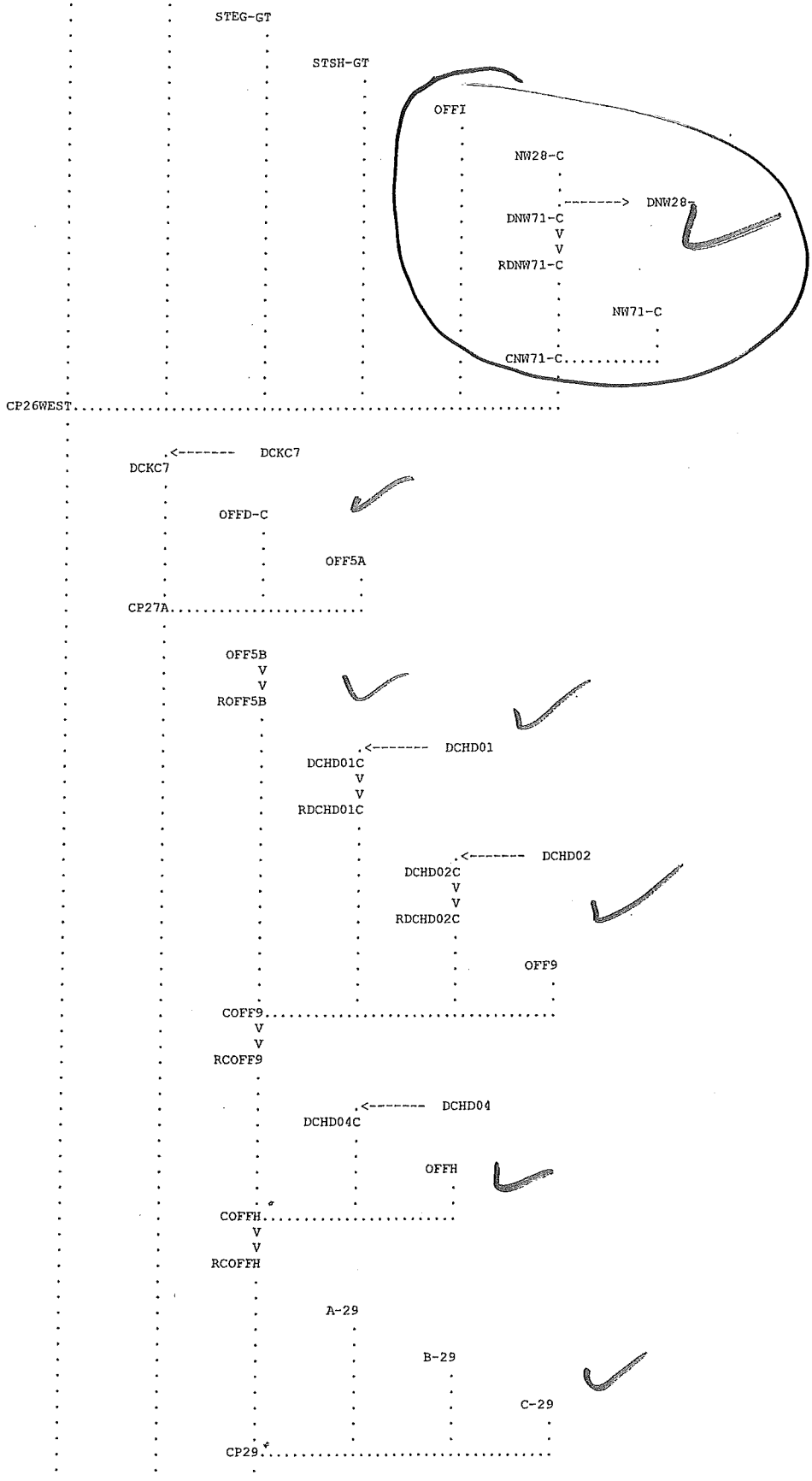
1029          KK  NW71-C
1030          BA   0.340
1031          PB    2.87
1032          LS       0    87.1
1033          UD   0.347
              *

1034          KK CNW71-C
1035          KM  COMBINE NW71-C AND RDNW71-C
1036          KM  WEST TRIBUTARY FLOW @ RANCHO ROAD SYSTEM
1037          HC       2
              *

1038          KKCP26WEST
1039          KM   COMBINE ALL WESTERN TRIBUTARY AT SE CORNER
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EQUIVALENT DRAINAGE AREA TO CHD05B


994 STEG-GT
1000 STSH-GT
1006 OFFI
1012 NW28-C
1020 DNW28
1017 DNW71-C
1023 RDNW71-C
1029 NW71-C
1034 CNW71-C
1038 CP26WEST
1043 DCKC7
1041 DCKC7
1044 OFFD-C
1050 OFF5A
1056 CP27A
1059 OFF5B
1065 ROFF5B
1071 DCHD01
1069 DCHD01C
1072 RDCHD01C
1078 DCHD02
1076 DCHD02C
1079 RDCHD02C
1083 OFF9
1089 COFF9
1092 RCOFF9
1098 DCHD04
1096 DCHD04C
1099 OFFH
1105 COFFH
1108 RCOFFH
1112 A-29
1118 B-29
1124 C-29
1130 CP29

ROUTED TO											
+	RCP13	.63	1	FLOW	1026.	1001.	966.	927.	914.	889.	490.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT											
+	OFFG	.04	1	FLOW	70.	68.	66.	63.	63.	61.	35.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT											
+	COFFG	.67	1	FLOW	1096.	1070.	1032.	990.	977.	950.	525.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58
ROUTED TO											
+	RCOFFG	.67	1	FLOW	1082.	1055.	1019.	975.	963.	935.	514.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT											
+	OFFF-C	.18	1	FLOW	276.	270.	260.	251.	247.	241.	137.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT											
+	COFFF	.85	1	FLOW	1358.	1325.	1279.	1226.	1210.	1176.	650.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58
ROUTED TO											
+	RCOFFF	.85	1	FLOW	1339.	1307.	1260.	1207.	1192.	1159.	641.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.67
HYDROGRAPH AT											
+	OFFE	.04	1	FLOW	59.	58.	55.	53.	53.	51.	28.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT											
+	CKC5	.89	1	FLOW	1398.	1365.	1316.	1261.	1244.	1210.	666.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.67
DIVERSION TO											
+	DCKC7	.89	1	FLOW	1398.	1365.	1316.	1261.	1244.	1210.	666.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.67
HYDROGRAPH AT											
+	DCKC6	.89	1	FLOW	0.	0.	0.	0.	0.	0.	0.
				TIME	.00	.00	.00	.00	.00	.00	.00
HYDROGRAPH AT											
+	A-14A	.05	1	FLOW	77.	75.	72.	69.	68.	67.	37.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT											
+	OFF11	.00	1	FLOW	4.	4.	4.	3.	3.	3.	1.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.58
2 COMBINED AT											
+	CP14A	.05	1	FLOW	81.	79.	76.	73.	72.	70.	38.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58
ROUTED TO											
+	RCP14A	.05	1	FLOW	79.	78.	74.	72.	70.	69.	37.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT											
+	A-14C	.03	1	FLOW	54.	53.	51.	49.	49.	47.	27.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT											
+	CP14C	.08	1	FLOW	134.	131.	125.	121.	119.	116.	64.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT											
+	A-14E	.04	1	FLOW	75.	73.	71.	68.	67.	66.	38.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT											
+	STA-14E	.01	1	FLOW	12.	11.	11.	11.	10.	10.	6.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50
2 COMBINED AT											
+	CP14E	.05	1	FLOW	83.	81.	79.	76.	75.	73.	43.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.58
ROUTED TO											
+	RCP14E	.05	1	FLOW	83.	81.	79.	76.	75.	73.	42.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT											
+	ST15	.01	1	FLOW	16.	15.	15.	14.	14.	14.	8.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT											
+	A-15	.05	1	FLOW	86.	84.	81.	78.	77.	75.	44.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58
4 COMBINED AT											
+	CP15	.19	1	FLOW	315.	308.	297.	286.	282.	275.	156.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58

HYDROGRAPH AT												
+	B-14D	.01	1	FLOW	17.	17.	16.	15.	15.	15.	9.	
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	
2 COMBINED AT												
+	CP14D	.20	1	FLOW	329.	321.	310.	298.	294.	287.	163.	
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	
DIVERSION TO												
+	DCHD05	.20	1	FLOW	329.	321.	310.	298.	294.	287.	163.	
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	
HYDROGRAPH AT												
+	DCP14D	.20	1	FLOW	0.	0.	0.	0.	0.	0.	0.	
				TIME	.00	.00	.00	.00	.00	.00	.00	
ROUTED TO												
+	RCP14D	.20	1	FLOW	0.	0.	0.	0.	0.	0.	0.	
				TIME	.00	.00	.00	.00	.00	.00	.00	
HYDROGRAPH AT												
+	A-16A	.04	1	FLOW	71.	69.	67.	64.	64.	62.	36.	
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	
ROUTED TO												
+	RA-16A	.04	1	FLOW	70.	69.	66.	64.	63.	61.	36.	
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	
HYDROGRAPH AT												
+	B-16A	.01	1	FLOW	15.	15.	14.	14.	13.	13.	8.	
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	
ROUTED TO												
+	RB-16A	.01	1	FLOW	14.	14.	14.	13.	13.	13.	7.	
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	
HYDROGRAPH AT												
+	C-16A	.05	1	FLOW	86.	84.	81.	78.	77.	75.	44.	
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	
HYDROGRAPH AT												
+	E-16A	.03	1	FLOW	47.	46.	44.	43.	42.	41.	24.	
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	
HYDROGRAPH AT												
+	STHO-16A	.01	1	FLOW	30.	29.	28.	27.	27.	26.	16.	
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	
5 COMBINED AT												
+	CP16A	.14	1	FLOW	240.	234.	226.	218.	215.	210.	123.	
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	
ROUTED TO												
+	RCP16A	.14	1	FLOW	239.	234.	226.	217.	215.	209.	122.	
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	
HYDROGRAPH AT												
+	STHO-16B	.01	1	FLOW	15.	15.	14.	14.	14.	13.	8.	
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	
2 COMBINED AT												
+	CP16B	.14	1	FLOW	249.	243.	235.	226.	223.	218.	127.	
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	
ROUTED TO												
+	RCP16B	.14	1	FLOW	247.	242.	233.	224.	222.	216.	126.	
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	
HYDROGRAPH AT												
+	A-16	.03	1	FLOW	53.	52.	50.	49.	48.	47.	27.	
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.58	
HYDROGRAPH AT												
+	STGR-16	.01	1	FLOW	18.	18.	17.	17.	16.	16.	10.	
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	
3 COMBINED AT												
+	CP16	.18	1	FLOW	316.	310.	299.	288.	284.	277.	161.	
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	
HYDROGRAPH AT												
+	OFF14	.01	1	FLOW	19.	19.	18.	17.	17.	16.	8.	
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	
3 COMBINED AT												
+	CP17	.40	1	FLOW	334.	327.	315.	303.	299.	292.	169.	
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	
DIVERSION TO												
+	DCHD06	.40	1	FLOW	334.	327.	315.	303.	299.	292.	168.	
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	
HYDROGRAPH AT												
+	DCP17	.40	1	FLOW	0.	0.	0.	0.	0.	0.	0.	

EQUIVALENT TO CHDOS8

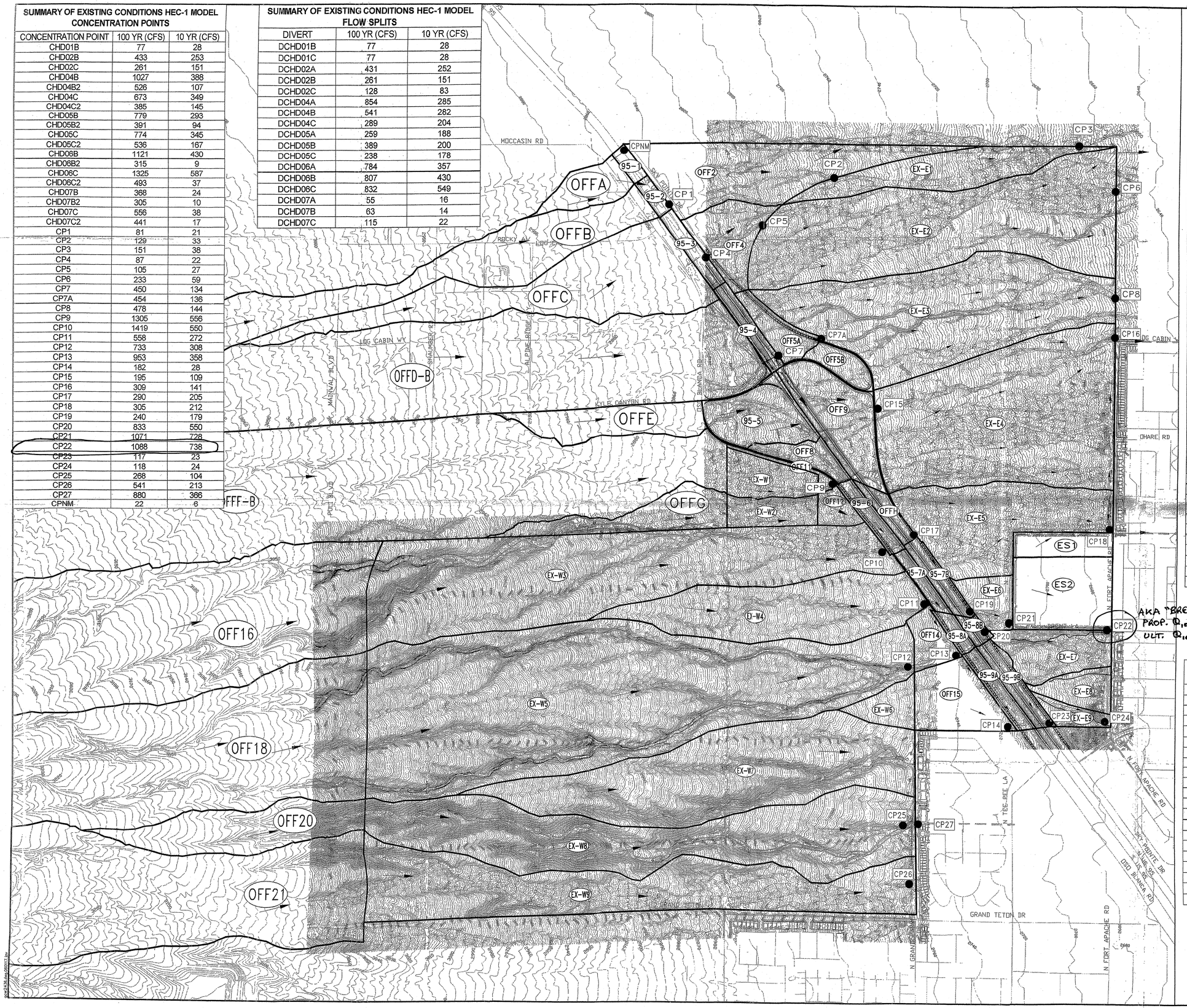
+	CP26	.48	1	FLOW	840.	821.	792.	764.	754.	735.	427.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT											
+	STEG-GT	.00	1	FLOW	2.	2.	2.	2.	2.	2.	1.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT											
+	STSH-GT	.00	1	FLOW	4.	4.	4.	4.	4.	4.	2.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT											
+	OFFI	.22	1	FLOW	319.	311.	300.	289.	286.	279.	161.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT											
+	NW28-C	.50	1	FLOW	624.	605.	577.	549.	539.	521.	242.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.67
DIVERSION TO											
+	DNW28-	.50	1	FLOW	543.	524.	496.	468.	458.	440.	161.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.67
HYDROGRAPH AT											
+	DNW71-C	.50	1	FLOW	81.	81.	81.	81.	81.	81.	81.
				TIME	3.25	3.25	3.25	3.25	3.25	3.25	3.42
ROUTED TO											
+	RDNW71-C	.50	1	FLOW	81.	82.	82.	85.	85.	87.	82.
				TIME	3.42	3.42	3.42	3.42	3.42	3.42	3.58
HYDROGRAPH AT											
+	NW71-C	.34	1	FLOW	330.	320.	306.	291.	286.	277.	131.
				TIME	3.75	3.75	3.75	3.75	3.75	3.75	3.83
2 COMBINED AT											
+	CNW71-C	.84	1	FLOW	411.	401.	387.	372.	367.	357.	212.
				TIME	3.75	3.75	3.75	3.75	3.75	3.83	3.83
6 COMBINED AT											
+	CP26WEST	2.94	1	FLOW	2218.	2160.	2090.	2013.	1986.	1934.	1119.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT											
+	DCKC7	.00	1	FLOW	1398.	1365.	1316.	1261.	1244.	1210.	666.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.67
HYDROGRAPH AT											
+	OFFD-C	.14	1	FLOW	217.	212.	204.	196.	193.	188.	102.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT											
+	OFF5A	.03	1	FLOW	46.	45.	43.	41.	40.	39.	20.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58
3 COMBINED AT											
+	CP27A	.17	1	FLOW	1661.	1621.	1562.	1497.	1478.	1437.	786.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT											
+	OFF5B	.01	1	FLOW	18.	17.	17.	16.	16.	15.	8.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50
ROUTED TO											
+	ROFF5B	.01	1	FLOW	16.	16.	15.	15.	14.	14.	7.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT											
+	DCHD01C	.00	1	FLOW	60.	59.	56.	54.	53.	51.	26.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50
ROUTED TO											
+	RDCHD01C	.00	1	FLOW	55.	53.	51.	49.	48.	47.	23.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT											
+	DCHD02C	.00	1	FLOW	19.	19.	18.	17.	17.	17.	8.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58
ROUTED TO											
+	RDCHD02C	.00	1	FLOW	19.	19.	18.	17.	17.	17.	8.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT											
+	OFF9	.05	1	FLOW	60.	58.	56.	53.	52.	51.	25.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58
4 COMBINED AT											
+	COFF9	.06	1	FLOW	145.	141.	135.	129.	127.	123.	62.
				TIME	3.58	3.67	3.67	3.67	3.67	3.67	3.67
ROUTED TO											
+	RCOFF9	.06	1	FLOW	144.	140.	135.	128.	127.	123.	60.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67

SUMMARY OF EXISTING CONDITIONS HEC-1 MODEL CONCENTRATION POINTS

CONCENTRATION POINT	100 YR (CFS)	10 YR (CFS)
CHD01B	77	28
CHD02B	433	253
CHD02C	261	151
CHD04B	1027	388
CHD04B2	526	107
CHD04C	673	349
CHD04C2	385	145
CHD05B	779	293
CHD05B2	391	94
CHD05C	774	345
CHD05C2	536	167
CHD06B	1121	430
CHD06B2	315	9
CHD06C	1325	587
CHD06C2	493	37
CHD07B	368	24
CHD07B2	305	10
CHD07C	556	38
CHD07C2	441	17
CP1	81	21
CP2	129	33
CP3	151	38
CP4	87	22
CP5	105	27
CP6	233	59
CP7	450	134
CP7A	454	136
CP8	478	144
CP9	1305	556
CP10	1419	550
CP11	558	272
CP12	733	308
CP13	953	358
CP14	182	28
CP15	195	109
CP16	309	141
CP17	290	205
CP18	305	212
CP19	240	179
CP20	833	550
CP21	1071	728
CP22	1088	738
CP23	117	23
CP24	118	24
CP25	268	104
CP26	541	213
CP27	880	366
CPNM	22	6

SUMMARY OF EXISTING CONDITIONS HEC-1 MODEL FLOW SPLITS

DIVERT	100 YR (CFS)	10 YR (CFS)
DCHD01B	77	28
DCHD01C	77	28
DCHD02A	431	252
DCHD02B	261	151
DCHD02C	128	83
DCHD04A	854	285
DCHD04B	541	282
DCHD04C	289	204
DCHD05A	259	188
DCHD05B	389	200
DCHD05C	238	178
DCHD06A	784	357
DCHD06B	807	430
DCHD06C	832	549
DCHD07A	55	16
DCHD07B	63	14
DCHD07C	115	22



LEGEND

- SUBBASIN BOUNDARY
- ON2 — SUBBASIN NAME
- FLOW DIRECTION
- CP20 — COMBINATION POINT

NORTH

GRAPHIC SCALE
600 0 300 600
(IN FEET)
1 inch = 600 ft.

SUMMARY OF EXISTING CONDITIONS HEC-1 MODEL OFFSITE BASINS

BASIN	AREA (AC)	100 YR (CFS)	10 YR (CFS)
OFFA	12.99	17	4
OFFB	85.55	79	21
OFFC	85.34	80	20
OFFD-A	411.49	343	97
OFFD-B	319.21	232	61
OFFE	24.48	26	6
OFFF-A	636.03	843	322
OFFF-B	391.15	433	160
OFFG	25.98	48	18
OFFH	5.60	15	6
OFF2	59.39	61	15
OFF4	20.39	27	7
OFF5A	10.30	26	11
OFF5B	7.43	18	8
OFF8	8.50	19	8
OFF9	29.87	60	25
OFF10	429.46	591	248
OFF11	2.92	4	1
OFF12	6.02	8	2
OFF14	8.56	19	8
OFF15	23.15	49	19
OFF16	504.67	538	220
OFF18	351.44	480	196
OFF20	42.00	85	33
OFF21	337.93	461	186
95-1	2.71	7	3
95-2	2.80	7	3
95-3	6.06	15	6
95-4	6.99	17	7
95-5	23.63	60	26
95-6	6.65	17	7
95-7A	4.41	13	6
95-7B	7.15	20	10
95-8A	3.32	10	5
95-8B	2.56	8	4
95-9A	7.06	19	9
95-9B	8.51	22	10

AKA "BRENT"
PROP. Q_{100}/Q_{10} = 373/160
ULT. Q_{100}/Q_{10} = 153/55

SUMMARY OF EXISTING CONDITIONS HEC-1 MODEL ONSITE BASINS

BASIN	AREA (AC)	100 YR (CFS)	10 YR (CFS)
EX-W1	15.36	20	5
EX-W2	13.24	22	7
EX-W3	172.93	268	103
EX-W4	67.06	121	47
EX-W5	285.43	443	170
EX-W6	9.93	21	8
EX-W7	126.63	197	76
EX-W8	139.52	213	81
EX-W9	116.76	173	63
EX-E1	33.75	36	9
EX-E2	140.59	141	35
EX-E3	119.48	112	28
EX-E4	140.56	147	36
EX-E5	63.30	79	22
EX-E6	10.26	21	9
EX-E7	21.31	45	18
EX-E8	10.67	22	9
EX-E9	6.13	13	5
ES1	11.10	29	14
ES2	31.40	84	43

This grading plan is a part of drainage study # 4155 which was received on 4/3/07 and rejected on 5/2/07. Page 54 of 57.

DESIGN:
DRAWN:
CHECK:
ISSUE DATE:
ISSUE EDITOR:
PLOT DATE: 12-14-06
PLOT TIME: 17:21:55

REV	DATE	DESCRIPTION	DATE	AGEN.	APP	DATE	CCW	APP

G.C. WALLACE COMPANIES
ENGINEERS | PLANNERS | SURVEYORS
1555 S. RAINBOW BOULEVARD · LAS VEGAS, NV 89146
T: 702.804.2000 · F: 702.804.2299 · GCWALLACE.COM

H:\07\0784-016\Civil\Hyde\Master Drainage Study\XR\Fig-5Rsheet.dgn

KYLE ACQUISITION GROUP, LLC.
KYLE CANYON MASTER DRAINAGE STUDY
FIGURE 5AR
EXISTING CONDITIONS ONSITE DRAINAGE MAP

DRAWING FIG 5AR
SHT OF SHTS

2002 MPU Hydrology

CLARK COUNTY
REGIONAL FLOOD CONTROL DISTRICT

2002 LAS VEGAS VALLEY FLOOD CONTROL MASTER PLAN UPDATE

LEGEND

- Ultimate Development Boundary
- Watershed Boundary
- ID — Subarea Boundary
- Flow Arrows

Flood Control Facilities

- Existing Facilities
- Proposed Facilities

Type — Hydrologic Soil Groups

- A — Low Runoff Potential
- B — Moderately Low Runoff Potential
- C — Moderately High Runoff Potential
- D — High Runoff Potential

Typical Land Use

1. Undeveloped Land, Open Desert
2. Parks, Golf Courses
3. Rural
4. Low Density Residential
5. Medium Density Residential
6. High Density Residential
7. Public Facility, Multi Family
8. Commercial, Office, Retail, Casino
9. Light Industrial
10. Heavy Industrial
11. Schools
12. Lakes

N W E S

0 1,000 2,000 3,000 4,000 5,000
Feet

SCALE: 1 inch = 3000 feet

US95 I-15 I-215

HYDROLOGIC SUBAREAS, LAND USE & SOILS

FIGURE H-3

PBS&J

G.C. WALLACE, INC.

Brent Lane Flow Excerpts

DR4091-2
10/19/07
67-06
$400

RESPONSE TO COMMENTS ON UPDATE #2 OF THE KYLE CANYON MASTER DRAINAGE STUDY

784.017.200

October 2007

Prepared for:

Kyle Acquisition Group, LLC.
c/o Landtek, LLC.
3425 Cliff Shadows Pkwy - Suite 250
Las Vegas, Nevada 89129
Phone: (702) 777-1221
Fax: (702) 645-8852

G. C. WALLACE COMPANIES
ENGINEERS | PLANNERS | SURVEYORS

Comment: "7. Technical drainage studies are required for each of the POD's. The technical drainage studies for the POD's may not be submitted until the conditional approval of the pertinent infrastructure drainages study is obtained. Final approval for the infrastructure drainage study must be obtained prior to conditional approval of the impacted POD drainage studies.

Response: Noted.

Comment: "8. Building permits for the homes within the individual POD's will not be issued until construction of the street and flood control infrastructure around the POD is substantially complete."

Response: Noted.

Comment: "9. As stated in this Master Drainage Study, the proposed developments within ultimate condition Subbasins B-44, A-45, and A-44 cannot be constructed prior to completion of the Horse Drive Interchange storm drain facilities and all pertinent storm drain facilities downstream of the proposed Horse Drive Interchange."

Response: The interim conditions hydrologic analysis presented in Update #2 shows that the portion of the Kyle Canyon Gateway Project within B-44, A-45, and A-44 can be developed once the Horse Drive Interchange Facilities have been constructed without the downstream MPU facilities in place. As described in the previous submittal, proposed flowrates conveyed east of US 95 under interim conditions are comparable to existing conditions. Additionally, flowrates proposed under interim conditions within Brent Lane and Horse Drive east of subbasins B-44, A-45, and A-44 will be less than flowrates under existing conditions. See Figures 5AR, 6U2, and 7U2, which have been provided in the Appendix. must meet ultimate condition street criteria.

The following discussion is an excerpt from Update #2:

> "Flows perpetuated east at Culvert 6 will be routed within an easement within Subbasins A-44 and B-44 to the intersection of Brent Lane and Fort Apache Road for a total of 551 cfs that will continue east in Brent Lane. Under existing conditions, 1088 cfs continues east in Brent Lane at this location. See referenced Figure 5AR from the *Response to Comments on the Master Drainage Study for Kyle Canyon*. A normal depth calculation for Brent Lane east of Fort Apache shows a depth of flow equal to 1.6 feet and velocity equal to 17.1 feet per second under existing conditions and depth of flow equal to 1.2 feet and velocity equal to 13.1 feet per second under interim conditions. Note that block walls a minimum of 2 courses high above top-of-curb elevation exist on both sides of Brent Lane between Fort Apache Road and El Capitan Way. See Brent Lane photos included in Appendix C. Note that side streets between Fort Apache Road and El Capitan Way appear to have significant humps to prevent flow splits. The flow at the intersection of Brent Lane and El Capitan continues northeast in an existing wash located at the northeast corner of the intersection. Based on the supporting calculations and field visits, GCW feels

that the proposed reduced flow in Brent Lane east of Fort Apache will reduce burden on properties and facilities downstream of this location."

An exhibit showing the flow comparison between the Horse Drive Interchange MPU facility flow and Kyle Canyon Master Plan flow has been provided in the Appendix.

Comment: "10. Please note that the flows within all non-standard street sections are not allowed to over top the median and overflow onto the lower street. Also, nuisance flows are not allowed to sheet flow across the street. Storm drain facilities must be designed to meet these conditions and these storm drain facilities are the responsibility of the Master Developer."

Response: Flows will not over top the median and overflow onto the lower street. Major streets (equivalent 80-foot right-of-way or greater) will meet street criteria by providing storm drains and drop inlets or erosion protection if flows exceed curb height.

"L" type curb and gutter will be proposed along the edge of right-of-way for major streets (equivalent 80-foot right-of-way or greater) to prevent nuisance flows from sheet flowing across the street. Revised sections have been included.

For all non-standard street sections

Significant nuisance flows are not anticipated along major streets (equivalent 80-foot right-of-way or greater) since drought tolerant landscaping and drip irrigation is proposed. No spray irrigation is proposed. Drop inlets and storm drain will be provided to meet the more restrictive 10-year dry lane or 100-year street conveyance criteria and will capture nuisance flows.

Comment: "11. The site is adjacent to or crosses an existing or proposed *Clark County Regional Flood Control District (CCRFCD)* master planned facility. Therefore, CCRFCD concurrence is required prior to final approval of the drainage study."

Response: Noted. Upon conditional approval by CLV, this update will be submitted to CCRFCD for concurrence.

Comment: "12. The site is adjacent to Clark County boundary. The engineer must coordinate with Clark County Department of Development Services (CCDDS) and incorporate any concerns for boundary conditions. CCDDS concurrence is required prior to final acceptance of the master drainage study."

Response: Noted. Upon conditional approval by CLV, this update will be submitted to CCDDS for concurrence.

Comment: "13. The project proposed to construct facilities and/or increase flows within Nevada Department of Transportation (NDOT) right-of-way. Therefore, NDOT concurrence is required prior to final approval of the master drainage study."

Reference Material from Horse Interchange Storm Drain

STORM DRAIN PROFILE
MPd 3.00 TO MPd 16.50
HORSE DRIVE / US 95 INTERCHANGE

PUBLIC WORKS DEPARTMENT
CITY OF LAS VEGAS, NV

DRAWN BY: JS	DESIGNED BY: JLB	CHECKED BY: JAL	PROJECT NO: 6900	SCALE: 1"=50' HORIZ. 1"=5' VERT.
6/20/2008	6/20/2008	6/20/2008		

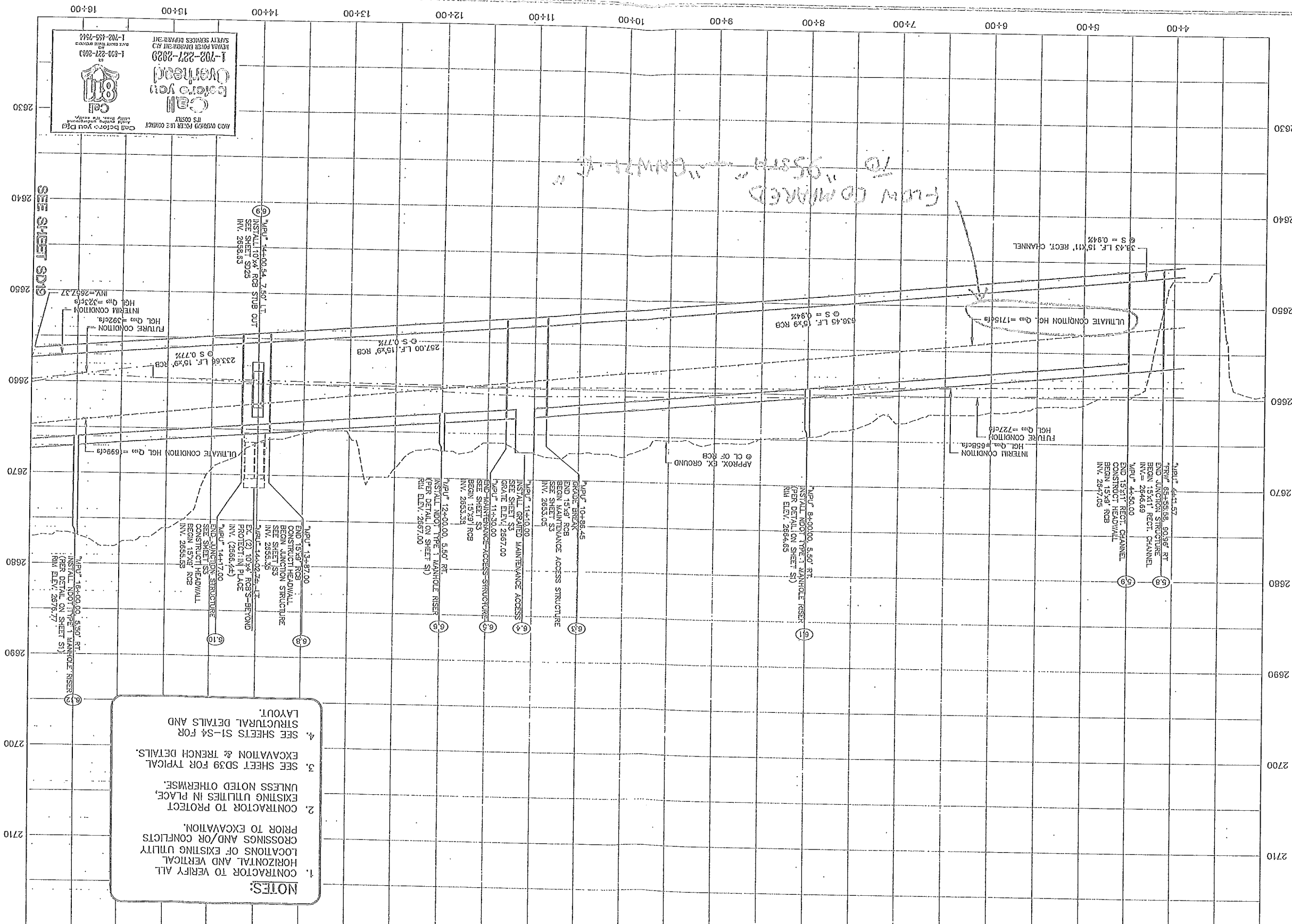
NO.	DATE	BY	REVISION

VISION — INFRASTRUCTURE CONSULTING ENGINEERS • PLANNERS • LAND SURVEYORS
2223 SOUTH RANCHO BOULEVARD LAS VEGAS, NEVADA 89146-5519
PH. (702) 825-7000 FAX (702) 382-2857

LANNY K. LEVITT — EQUILIBRIUM-SYSTEMS, INC. — 6E Associates, LLC — 62 BOUND — No. 10263 — STATE OF NEVADA — PROFESSIONAL ENGINEER — CIVIL

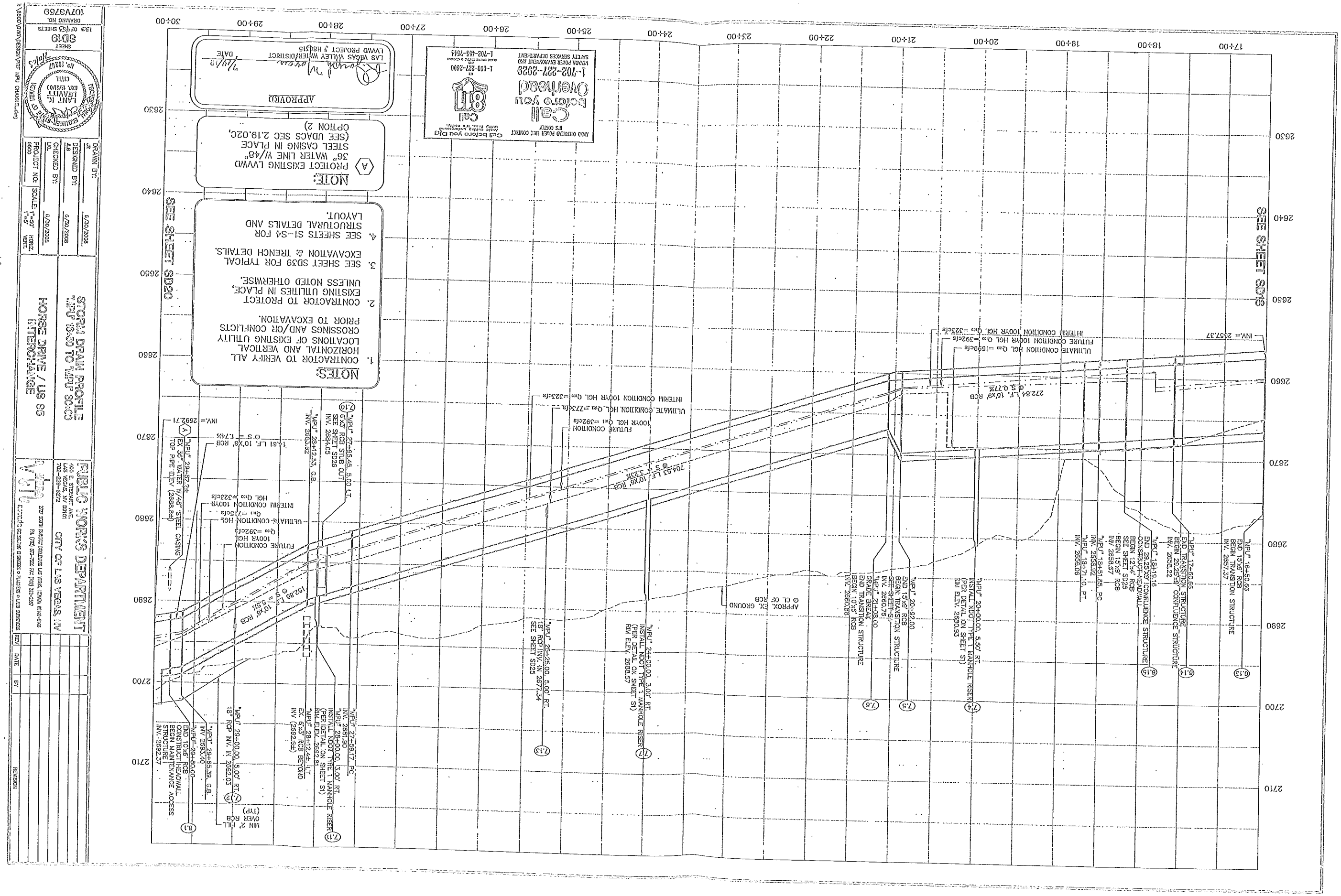
SHEET SD16
432 OF 435 SHEETS
DRAWING NO. 10V/37/69

Call before you Dig
Allow 2 working days before you begin
1-800-227-2600
Back to back calls required
Call
before you Dig
(Verified)
1-702-227-2929
NEVADA POWER DIVISION OF AES
SAFETY SERVICES DEPARTMENT
1-702-455-7844
AND WASHOE POWER LINE CONTACT ITS CONTRACTOR
Call Before You Dig
Allow working days before you begin
Call back to back calls required



NOTES:

1. CONTRACTOR TO VERIFY ALL HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING UTILITY CROSSINGS AND/OR CONFLICTS PRIOR TO EXCAVATION.
2. CONTRACTOR TO PROTECT EXISTING UTILITIES IN PLACE, UNLESS NOTED OTHERWISE.
3. SEE SHEET SD39 FOR TYPICAL EXCAVATION & TRENCH DETAILS.
4. SEE SHEETS S1–S4 FOR STRUCTURAL DETAILS AND LAYOUT.

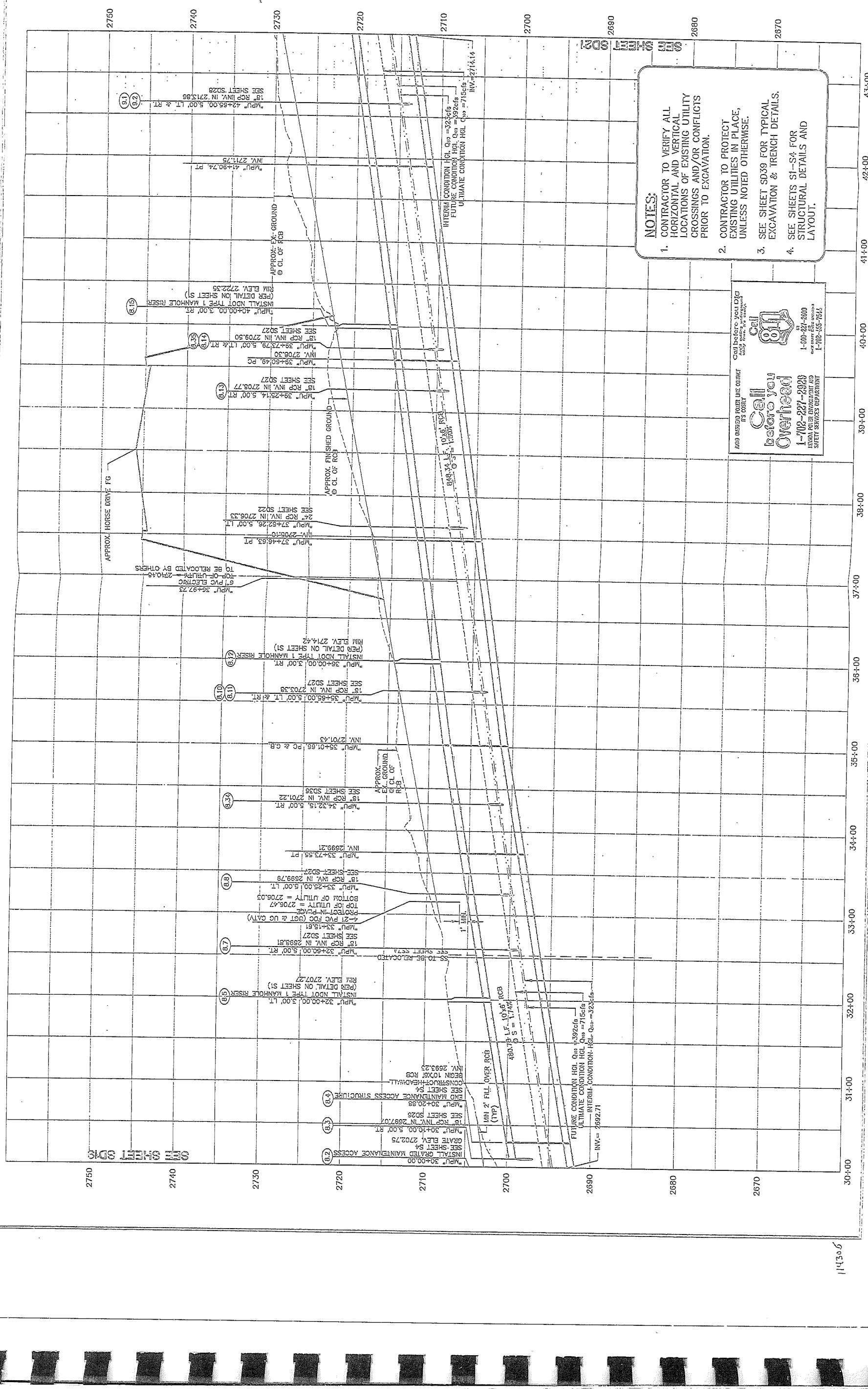

STORM DRAIN PROFILE
"MPU" 28+00 TO "MPU" 38+00
HORSE DRIVE / US 95 INTERCHANGE
CITY OF LAS VEGAS, NV
PUBLIC WORKS DEPARTMENT
DESIGNED BY: AJB
DRAWN BY: SR
CHECKED BY: MK
PROJECT NO: 6930
SCALE: HORIZ. 1"=50' VERT. 1"=5'
6/20/2008
SHEET SD19
133 OF 133 SHEETS
DRAWING NO. 107V3769
NOTES:
1. CONTRACTOR TO VERIFY ALL HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING UTILITY CROSSINGS AND/OR CONFLICTS PRIOR TO EXCAVATION.
2. CONTRACTOR TO PROTECT EXISTING UTILITIES IN PLACE, UNLESS NOTED OTHERWISE.
3. SEE SHEET SD39 FOR TYPICAL EXCAVATION & TRENCH DETAILS.
4. SEE SHEETS S1-S4 FOR STRUCTURAL DETAILS AND LAYOUT.
NOTE:
(A) PROTECT EXISTING LVVWD 36" WATER LINE W/48" STEEL CASING IN PLACE (SEE UDACS SEC 2.19.02C, OPTION 2)
APPROVED
LVVWD PROJECT # 1803016
LAS VEGAS VALLEY WATER DISTRICT
DATE
Call before you Dig
1-702-227-2929
1-800-227-2600
1-702-455-7644
811
Call before you dig
1-702-227-2929
NEVADA POWER EMERGENCY AND SAFETY SERVICES DEPARTMENT
1-800-227-2600
1-702-455-7644
MID GARDEN HOSE LINE CONTACT IT'S COSTLY
SEE SHEET SD20
SEE SHEET SD18
"MPU" 28+12.53, G.B. INV. 2693.62
"MPU" 28+12.53, 5.00' RT. 6" SCH 40 PVC RCB STUB OUT INV. 2693.05
"MPU" 28+12.44, 10.00' LT. 2' MIN. COVER CONCRETE PAD (TYP.)
"MPU" 28+65.38, G.B. INV. 2693.70
"MPU" 28+80.00 CONSTRUCT HEADWALL BEGIN MAIN TENANCE ACCESS STRUCTURE INV. 2692.57
"MPU" 28+92.24 EX 36" WATER W/48" STEEL CASING TOP PIPE ELEV (2688.84)
"MPU" 29+00.00, 5.00' RT. 18" RCP INV. IN 2692.03
"MPU" 29+25.00, 5.00' RT. 18" RCP INV. IN 2677.34 SEE SHEET SD25
"MPU" 29+56.17, PC INV. 2681.90
"MPU" 29+80.00, 5.00' RT. INSTALL NDOT TYPE 1 MANHOLE RISER (PER DETAIL ON SHEET S1) RIM ELEV. 2682.57
"MPU" 29+92.24 EX 36" WATER W/48" STEEL CASING TOP PIPE ELEV (2688.84)
"MPU" 30+00.00, 5.00' RT. INSTALL NDOT TYPE 1 MANHOLE RISER (PER DETAIL ON SHEET S1) RIM ELEV. 2688.57
"MPU" 30+00.00, 5.00' LT. 6" SCH 40 PVC RCB STUB OUT INV. 2693.05
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"MPU" 30+12.44, 10.00' LT. 2' MIN. COVER CONCRETE PAD (TYP.)
"MPU" 30+65.38, G.B. INV. 2693.70
"MPU" 30+80.00 CONSTRUCT HEADWALL BEGIN MAIN TENANCE ACCESS STRUCTURE INV. 2692.57
"MPU" 30+92.24 EX 36" WATER W/48" STEEL CASING TOP PIPE ELEV (2688.84)
"MPU" 31+00.00, 5.00' RT. 18" RCP INV. IN 2692.03
"MPU" 31+25.00, 5.00' RT. 18" RCP INV. IN 2677.34 SEE SHEET SD25
"MPU" 31+56.17, PC INV. 2681.90
"MPU" 31+80.00, 5.00' RT. INSTALL NDOT TYPE 1 MANHOLE RISER (PER DETAIL ON SHEET S1) RIM ELEV. 2682.57
"MPU" 31+92.24 EX 36" WATER W/48" STEEL CASING TOP PIPE ELEV (2688.84)
"MPU" 32+00.00, 5.00' RT. INSTALL NDOT TYPE 1 MANHOLE RISER (PER DETAIL ON SHEET S1) RIM ELEV. 2688.57
"MPU" 32+00.00, 5.00' LT. 6" SCH 40 PVC RCB STUB OUT INV. 2693.05
"MPU" 32+12.53, G.B. INV. 2693.62
"MPU" 32+12.44, 10.00' LT. 2' MIN. COVER CONCRETE PAD (TYP.)
"MPU" 32+65.38, G.B. INV. 2693.70
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"MPU" 32+92.24 EX 36" WATER W/48" STEEL CASING TOP PIPE ELEV (2688.84)
"MPU" 33+00.00, 5.00' RT. 18" RCP INV. IN 2692.03
"MPU" 33+25.00, 5.00' RT. 18" RCP INV. IN 2677.34 SEE SHEET SD25
"MPU" 33+56.17, PC INV. 2681.90
"MPU" 33+80.00, 5.00' RT. INSTALL NDOT TYPE 1 MANHOLE RISER (PER DETAIL ON SHEET S1) RIM ELEV. 2682.57
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"MPU" 34+00.00, 5.00' LT. 6" SCH 40 PVC RCB STUB OUT INV. 2693.05
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"MPU" 34+80.00 CONSTRUCT HEADWALL BEGIN MAIN TENANCE ACCESS STRUCTURE INV. 2692.57
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"MPU" 35+25.00, 5.00' RT. 18" RCP INV. IN 2677.34 SEE SHEET SD25
"MPU" 35+56.17, PC INV. 2681.90
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"MPU" 36+12.53, G.B. INV. 2693.62
"MPU" 36+12.44, 10.00' LT. 2' MIN. COVER CONCRETE PAD (TYP.)
"MPU" 36+65.38, G.B. INV. 2693.70
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"MPU" 36+92.24 EX 36" WATER W/48" STEEL CASING TOP PIPE ELEV (2688.84)
"MPU" 37+00.00, 5.00' RT. 18" RCP INV. IN 2692.03
"MPU" 37+25.00, 5.00' RT. 18" RCP INV. IN 2677.34 SEE SHEET SD25
"MPU" 37+56.17, PC INV. 2681.90
"MPU" 37+80.00, 5.00' RT. INSTALL NDOT TYPE 1 MANHOLE RISER (PER DETAIL ON SHEET S1) RIM ELEV. 2682.57
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"MPU" 39+00.00, 5.00' RT. 18" RCP INV. IN 2692.03
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"MPU" 42+65.38, G.B. INV. 2693.70
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"MPU" 43+56.17, PC INV. 2681.90
"MPU" 43+80.00, 5.00' RT. INSTALL NDOT TYPE 1 MANHOLE RISER (PER DETAIL ON SHEET S1) RIM ELEV. 2682.57
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"MPU" 44+00.00, 5.00' RT. INSTALL NDOT TYPE 1 MANHOLE RISER (PER DETAIL ON SHEET S1) RIM ELEV. 2688.57
"MPU" 44+00.00, 5.00' LT. 6" SCH 40 PVC RCB STUB OUT INV. 2693.05
"MPU" 44+12.53, G.B. INV. 2693.62
"MPU" 44+12.44, 10.00' LT. 2' MIN. COVER CONCRETE PAD (TYP.)
"MPU" 44+65.38, G.B. INV. 2693.70
"MPU" 44+80.00 CONSTRUCT HEADWALL BEGIN MAIN TENANCE ACCESS STRUCTURE INV. 2692.57
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"MPU" 46+00.00, 5.00' LT. 6" SCH 40 PVC RCB STUB OUT INV. 2693.05
"MPU" 46+12.53, G.B. INV. 2693.62
"MPU" 46+12.44, 10.00' LT. 2' MIN. COVER CONCRETE PAD (TYP.)
"MPU" 46+65.38, G.B. INV. 2693.70
"MPU" 46+80.00 CONSTRUCT HEADWALL BEGIN MAIN TENANCE ACCESS STRUCTURE INV. 2692.57
"MPU" 46+92.24 EX 36" WATER W/48" STEEL CASING TOP PIPE ELEV (2688.84)
"MPU" 47+00.00, 5.00' RT. 18" RCP INV. IN 2692.03
"MPU" 47+25.00, 5.00' RT. 18" RCP INV. IN 2677.34 SEE SHEET SD25
"MPU" 47+56.17, PC INV. 2681.90
"MPU" 47+80.00, 5.00' RT. INSTALL NDOT TYPE 1 MANHOLE RISER (PER DETAIL ON SHEET S1) RIM ELEV. 2682.57
"MPU" 47+92.24 EX 36" WATER W/48" STEEL CASING TOP PIPE ELEV (2688.84)
"MPU" 48+00.00, 5.00' RT. INSTALL NDOT TYPE 1 MANHOLE RISER (PER DETAIL ON SHEET S1) RIM ELEV. 2688.57
"MPU" 48+00.00, 5.00' LT. 6" SCH 40 PVC RCB STUB OUT INV. 2693.05
"MPU" 48+12.53, G.B. INV. 2693.62
"MPU" 48+12.44, 10.00' LT. 2' MIN. COVER CONCRETE PAD (TYP.)
"MPU" 48+65.38, G.B. INV. 2693.70
"MPU" 48+80.00 CONSTRUCT HEADWALL BEGIN MAIN TENANCE ACCESS STRUCTURE INV. 2692.57
"MPU" 48+92.24 EX 36" WATER W/48" STEEL CASING TOP PIPE ELEV (2688.84)
"MPU" 49+00.00, 5.00' RT. 18" RCP INV. IN 2692.03
"MPU" 49+25.00, 5.00' RT. 18" RCP INV. IN 2677.34 SEE SHEET SD25
"MPU" 49+56.17, PC INV. 2681.90
"MPU" 49+80.00, 5.00' RT. INSTALL NDOT TYPE 1 MANHOLE RISER (PER DETAIL ON SHEET S1) RIM ELEV. 2682.57
"MPU" 49+92.24 EX 36" WATER W/48" STEEL CASING TOP PIPE ELEV (2688.84)
"MPU" 50+00.00, 5.00' RT. INSTALL NDOT TYPE 1 MANHOLE RISER (PER DETAIL ON SHEET S1) RIM ELEV. 2688.57
"MPU" 50+00.00, 5.00' LT. 6" SCH 40 PVC RCB STUB OUT INV. 2693.05
"MPU" 50+12.53, G.B. INV. 2693.62
"MPU" 50+12.44, 10.00' LT. 2' MIN. COVER CONCRETE PAD (TYP.)
"MPU" 50+65.38, G.B. INV. 2693.70
"MPU" 50+80.00 CONSTRUCT HEADWALL BEGIN MAIN TENANCE ACCESS STRUCTURE INV. 2692.57
"MPU" 50+92.24 EX 36" WATER W/48" STEEL CASING TOP PIPE ELEV (2688.84)
"MPU" 51+00.00, 5.00' RT. 18" RCP INV. IN 2692.03
"MPU" 51+25.00, 5.00' RT. 18" RCP INV. IN 2677.34 SEE SHEET SD25
"MPU" 51+56.17, PC INV. 2681.90
"MPU" 51+80.00, 5.00' RT. INSTALL NDOT TYPE 1 MANHOLE RISER (PER DETAIL ON SHEET S1) RIM ELEV. 2682.57
"MPU" 51+92.24 EX 36" WATER W/48" STEEL CASING TOP PIPE ELEV (2688.84)
"MPU" 52+00.00, 5.00' RT. INSTALL NDOT TYPE 1 MANHOLE RISER (PER DETAIL ON SHEET S1) RIM ELEV. 2688.57
"MPU" 52+00.00, 5.00' LT. 6" SCH 40 PVC RCB STUB OUT INV. 2693.05
"MPU" 52+12.53, G.B. INV. 2693.62
"MPU" 52+12.44, 10.00' LT. 2' MIN. COVER CONCRETE PAD (TYP.)
"MPU" 52+65.38, G.B. INV. 2693.70
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"MPU" 52+92.24 EX 36" WATER W/48" STEEL CASING TOP PIPE ELEV (2688.84)
"MPU" 53+00.00, 5.00' RT. 18" RCP INV. IN 2692.03
"MPU" 53+25.00, 5.00' RT. 18" RCP INV. IN 2677.34 SEE SHEET SD25
"MPU" 53+56.17, PC INV. 2681.90
"MPU" 53+80.00, 5.00' RT. INSTALL NDOT TYPE 1 MANHOLE RISER (PER DETAIL ON SHEET S1) RIM ELEV. 2682.57
"MPU" 53+92.24 EX 36" WATER W/48" STEEL CASING TOP PIPE ELEV (2688.84)
"MPU" 54+00.00, 5.00' RT. INSTALL NDOT TYPE 1 MANHOLE RISER (PER DETAIL ON SHEET S1) RIM ELEV. 2688.57
"MPU" 54+00.00, 5.00' LT. 6" SCH 40 PVC RCB STUB OUT INV. 2693.05
"MPU" 54+12.53, G.B. INV. 2693.62
"MPU" 54+12.44, 10.00' LT. 2' MIN. COVER CONCRETE PAD (TYP.)
"MPU" 54+65.38, G.B. INV. 2693.70
"MPU" 54+80.00 CONSTRUCT HEADWALL BEGIN MAIN TENANCE ACCESS STRUCTURE INV. 2692.57
"MPU" 54+92.24 EX 36" WATER W/48" STEEL CASING TOP PIPE ELEV (2688.84)
"MPU" 55+00.00, 5.00' RT. 18" RCP INV. IN 2692.03
"MPU" 55+25.00, 5.00' RT. 18" RCP INV. IN 2677.34 SEE SHEET SD25
"MPU" 55+56.17, PC INV. 2681.90
"MPU" 55+80.00, 5.00' RT. INSTALL NDOT TYPE 1 MANHOLE RISER (PER DETAIL ON SHEET S1) RIM ELEV. 2682.57
"MPU" 55+92.24 EX 36" WATER W/48" STEEL CASING TOP PIPE ELEV (2688.84)
"MPU" 56+00.00, 5.00' RT. INSTALL NDOT TYPE 1 MANHOLE RISER (PER DETAIL ON SHEET S1) RIM ELEV. 2688.57
"MPU" 56+00.00, 5.00' LT. 6" SCH 40 PVC RCB STUB OUT INV. 2693.05
"MPU" 56+12.53, G.B. INV. 2693.62
"MPU" 56+12.44, 10.00' LT. 2' MIN. COVER CONCRETE PAD (TYP.)
"MPU" 56+65.38, G.B. INV. 2693.70
"MPU" 56+80.00 CONSTRUCT HEADWALL BEGIN MAIN TENANCE ACCESS STRUCTURE INV. 2692.57
"MPU" 56+92.24 EX 36" WATER W/48" STEEL CASING TOP PIPE ELEV (2688.84)
"MPU" 57+00.00, 5.00' RT. 18" RCP INV. IN 2692.03
"MPU" 57+25.00, 5.00' RT. 18" RCP INV. IN 2677.34 SEE SHEET SD25
"MPU" 57+56.17, PC INV. 2681.90
"MPU" 57+80.00, 5.00' RT. INSTALL NDOT TYPE 1 MANHOLE RISER (PER DETAIL ON SHEET S1) RIM ELEV. 2682.57
"MPU" 57+92.24 EX 36" WATER W/48" STEEL CASING TOP PIPE ELEV (2688.84)
"MPU" 58+00.00, 5.00' RT. INSTALL NDOT TYPE 1 MANHOLE RISER (PER DETAIL ON SHEET S1) RIM ELEV. 2688.57
"MPU" 58+00.00, 5.00' LT. 6" SCH 40 PVC RCB STUB OUT INV. 2693.05
"MPU" 58+12.53, G.B. INV. 2693.62
"MPU" 58+12.44, 10.00' LT. 2' MIN. COVER CONCRETE PAD (TYP.)
"MPU" 58+65.38, G.B. INV. 2693.70
"MPU" 58+80.00 CONSTRUCT HEADWALL BEGIN MAIN TENANCE ACCESS STRUCTURE INV. 2692.57
"MPU" 58+92.24 EX 36" WATER W/48" STEEL CASING TOP PIPE ELEV (2688.84)
"MPU" 59+00.00, 5.00' RT. 18" RCP INV. IN 2692.03
"MPU" 59+25.00, 5.00' RT. 18" RCP INV. IN 2677.34 SEE SHEET SD25
"MPU" 59+56.17, PC INV. 2681.90
"MPU" 59+80.00, 5.00' RT. INSTALL NDOT TYPE 1 MANHOLE RISER (PER DETAIL ON SHEET S1) RIM ELEV. 2682.57
"MPU" 59+92.24 EX 36" WATER W/48" STEEL CASING TOP PIPE ELEV (2688.84)
"MPU" 60+00.00, 5.00' RT. INSTALL NDOT TYPE 1 MANHOLE RISER (PER DETAIL ON SHEET S1) RIM ELEV. 2688.57
"MPU" 60+00.00, 5.00' LT. 6" SCH 40 PVC RCB STUB OUT INV. 2693.05
"MPU" 60+12.53, G.B. INV. 2693.62
"MPU" 60+12.44, 10.00' LT. 2' MIN. COVER CONCRETE PAD (TYP.)
"MPU" 60+65.38, G.B. INV. 2693.70
"MPU" 60+80.00 CONSTRUCT HEADWALL BEGIN MAIN TENANCE ACCESS STRUCTURE INV. 2692.57
"MPU" 60+92.24 EX 36" WATER W/48" STEEL CASING TOP PIPE ELEV (2688.84)
"MPU" 61+00.00, 5.00' RT. 18" RCP INV. IN 2692.03
"MPU" 61+25.00, 5.00' RT. 18" RCP INV. IN 2677.34 SEE SHEET SD25
"MPU" 61+56.17, PC INV. 2681.90
"MPU" 61+80.00, 5.00' RT. INSTALL NDOT TYPE 1 MANHOLE RISER (PER DETAIL ON SHEET S1) RIM ELEV. 2682.57
"MPU" 61+92.24 EX 36" WATER W/48" STEEL CASING TOP PIPE ELEV (2688.84)
"MPU" 62+00.00, 5.00' RT. INSTALL NDOT TYPE 1 MANHOLE RISER (PER DETAIL ON SHEET S1) RIM ELEV. 2688.57
"MPU" 62+00.00, 5.00' LT. 6" SCH 40 PVC RCB STUB OUT INV. 2693.05
"MPU" 62+12.53, G.B. INV. 2693.62
"MPU" 62+12.44, 10.00' LT. 2' MIN. COVER CONCRETE PAD (TYP.)
"MPU" 62+65.38, G.B. INV. 2693.70
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"MPU" 62+92.24 EX 36" WATER W/48" STEEL CASING TOP PIPE ELEV (2688.84)
"MPU" 63+00.00, 5.00' RT. 18" RCP INV. IN 2692.03
"MPU" 63+25.00, 5.00' RT. 18" RCP INV. IN 2677.34 SEE SHEET SD25
"MPU" 63+56.17, PC INV. 2681.90
"MPU" 63+80.00, 5.00' RT. INSTALL NDOT TYPE 1 MANHOLE RISER (PER DETAIL ON SHEET S1) RIM ELEV. 2682.57
"MPU" 63+92.24 EX 36" WATER W/48" STEEL CASING TOP PIPE ELEV (2688.84)
"MPU" 64+00.00, 5.00' RT. INSTALL NDOT TYPE 1 MANHOLE RISER (PER DETAIL ON SHEET S1) RIM ELEV. 2688.57
"MPU" 64+00.00, 5.00' LT. 6" SCH 40 PVC RCB STUB OUT INV. 2693.05
"MPU" 64+12.53, G.B. INV. 2693.62
"MPU" 64+12.44, 10.00' LT. 2' MIN. COVER CONCRETE PAD (TYP.)
"MPU" 64+65.38, G.B. INV. 2693.70
"MPU" 64+80.00 CONSTRUCT HEADWALL BEGIN MAIN TENANCE ACCESS STRUCTURE INV. 2692.57
"MPU" 64+92.24 EX 36" WATER W/48" STEEL CASING TOP PIPE ELEV (2688.84)
"MPU" 65+00.00, 5.00' RT. 18" RCP INV. IN 2692.03
"MPU" 65+25.00, 5.00' RT. 18" RCP INV. IN 2677.34 SEE SHEET SD25
"MPU" 65+56.17, PC INV. 2681.90
"MPU" 65+80.00, 5.00' RT. INSTALL NDOT TYPE 1 MANHOLE RISER (PER DETAIL ON SHEET S1) RIM ELEV. 2682.57
"MPU" 65+92.24 EX 36" WATER W/48" STEEL CASING TOP PIPE ELEV (2688.84)
"MPU" 66+00.00, 5.00' RT. INSTALL NDOT TYPE 1 MANHOLE RISER (PER DETAIL ON SHEET S1) RIM ELEV. 2688.57
"MPU" 66+00.00, 5.00' LT. 6" SCH 40 PVC RCB STUB OUT INV. 2693.05
"MPU" 66+12.53, G.B. INV. 2693.62
"MPU" 66+12.44, 10.00' LT. 2' MIN. COVER CONCRETE PAD (TYP.)
"MPU" 66+65.38, G.B. INV. 2693.70
"MPU" 66+80.00 CONSTRUCT HEADWALL BEGIN MAIN TENANCE ACCESS STRUCTURE INV. 2692.57
"MPU" 66+92.24 EX 36" WATER W/48" STEEL CASING TOP PIPE ELEV (2688.84)
"MPU" 67+00.00, 5.00' RT. 18" RCP INV. IN 2692.03
"MPU" 67+25.00, 5.00' RT. 18" RCP INV. IN 2677.34 SEE SHEET SD25
"MPU" 67+56.17, PC INV. 2681.90
"MPU" 67+80.00, 5.00' RT. INSTALL NDOT TYPE 1 MANHOLE RISER (PER DETAIL ON SHEET S1) RIM ELEV. 2682.57
"MPU" 67+92.24 EX 36" WATER W/48" STEEL CASING TOP PIPE ELEV (2688.84)
"MPU" 68+00.00, 5.00' RT. INSTALL NDOT TYPE 1 MANHOLE RISER (PER DETAIL ON SHEET S1) RIM ELEV. 2688.57
"MPU" 68+00.00, 5.00' LT. 6" SCH 40 PVC RCB STUB OUT INV. 2693.05
"MPU" 68+12.53, G.B. INV. 2693.62
"MPU" 68+12.44, 10.00' LT. 2' MIN. COVER CONCRETE PAD (TYP.)
"MPU" 68+65.38, G.B. INV. 2693.70
"MPU" 68+80.00 CONSTRUCT HEADWALL BEGIN MAIN TENANCE ACCESS STRUCTURE INV. 2692.57
"MPU" 68+92.24 EX 36" WATER W/48" STEEL CASING TOP PIPE ELEV (2688.84)
"MPU" 69+00.00, 5.00' RT. 18" RCP INV. IN 2692.03
"MPU" 69+25.00, 5.00' RT. 18" RCP INV. IN 2677.34 SEE SHEET SD25
"MPU" 69+56.17, PC INV. 2681.90
"MPU" 69+80.00, 5.00' RT. INSTALL NDOT TYPE 1 MANHOLE RISER (PER DETAIL ON SHEET S1) RIM ELEV. 2682.57
"MPU" 69+92.24 EX 36" WATER W/48" STEEL CASING TOP PIPE ELEV (2688.84)
"MPU" 70+00.00, 5.00' RT. INSTALL NDOT TYPE 1 MANHOLE RISER (PER DETAIL ON SHEET S1) RIM ELEV. 2688.57
"MPU" 70+00.00, 5.00' LT. 6" SCH 40 PVC RCB STUB OUT INV. 2693.05
"MPU" 70+12.53, G.B. INV. 2693.62
"MPU" 70+12.44, 10.00' LT. 2' MIN. COVER CONCRETE PAD (TYP.)
"MPU" 70+65.38, G.B. INV. 2693.70
"MPU" 70+80.00 CONSTRUCT HEADWALL BEGIN MAIN TENANCE ACCESS STRUCTURE INV. 2692.57
"MPU" 70+92.24 EX 36" WATER W/48" STEEL CASING TOP PIPE ELEV (2688.84)
"MPU" 71+00.00, 5.00' RT. 18" RCP INV. IN 2692.03
"MPU" 71+25.00, 5.00' RT. 18" RCP INV. IN 2677.34 SEE SHEET SD25
"MPU" 71+56.17, PC INV. 2681.90
"MPU" 71+80.00, 5.00' RT. INSTALL NDOT TYPE 1 MANHOLE RISER (PER DETAIL ON SHEET S1) RIM ELEV. 2682.57
"MPU" 71+92.24 EX 36" WATER W/48" STEEL CASING TOP PIPE ELEV (2688.84)
"MPU" 72+00.00, 5.00' RT. INSTALL NDOT TYPE 1 MANHOLE RISER (PER DETAIL ON SHEET S1) RIM ELEV. 2688.57
"MPU" 72+00.00, 5.00' LT. 6" SCH 40 PVC RCB STUB OUT INV. 2693.05
"MPU" 72+12.53, G.B. INV. 2693.62
"MPU" 72+12.44, 10.00' LT. 2' MIN. COVER CONCRETE PAD (TYP.)
"MPU" 72+65.38, G.B. INV. 2693.70
"MPU" 72+80.00 CONSTRUCT HEADWALL BEGIN MAIN TENANCE ACCESS STRUCTURE INV. 2692.57
"MPU" 72+92.24 EX 36" WATER W/48" STEEL CASING TOP PIPE ELEV (2688.84)
"MPU" 73+00.00, 5.00' RT. 18" RCP INV. IN 2692.03
"MPU" 73+25.00, 5.00' RT. 18" RCP INV. IN 2677.34 SEE SHEET SD25
"MPU" 73+56.17, PC INV. 2681.90
"MPU" 73+80.00, 5.00' RT. INSTALL NDOT TYPE 1 MANHOLE RISER (PER DETAIL ON SHEET S1) RIM ELEV. 2682.57
"MPU" 73+92.24 EX 36" WATER W/48" STEEL CASING TOP PIPE ELEV (2688.84)
"MPU" 74+00.00, 5.00' RT. INSTALL NDOT TYPE 1 MANHOLE RISER (PER DETAIL ON SHEET S1) RIM ELEV. 2688.57
"MPU" 74+00.00, 5.00' LT. 6" SCH 40 PVC RCB STUB OUT INV. 2693.05
"MPU" 74+12.53, G.B. INV. 2693.62
"MPU" 74+12.44, 10.00' LT. 2' MIN. COVER CONCRETE PAD (TYP.)
"MPU" 74+65.38, G.B. INV. 2693.70
"MPU" 74+80.00 CONSTRUCT HEADWALL BEGIN MAIN TENANCE ACCESS STRUCTURE INV. 2692.57
"MPU" 74+92.24 EX 36" WATER W/48" STEEL CASING TOP PIPE ELEV (2688.84)
"MPU" 75+00.00, 5.00' RT. 18" RCP INV. IN 2692.03
"MPU" 75+25.00, 5.00' RT. 18" RCP INV. IN 2677.34 SEE SHEET SD25
"MPU" 75+56.17, PC INV. 2681.90
"MPU" 75+80.00, 5.00' RT. INSTALL NDOT TYPE 1 MANHOLE RISER (PER DETAIL ON SHEET S1) RIM ELEV. 2682.57
"MPU" 75+92.24 EX 36" WATER W/48" STEEL CASING TOP PIPE ELEV (2688.84)
"MPU" 76+00.00, 5.00' RT. INSTALL NDOT TYPE 1 MANHOLE RISER (PER DETAIL ON SHEET S1) RIM ELEV. 2688.57
"MPU" 76+00.00, 5.00' LT. 6" SCH 40 PVC RCB STUB OUT INV. 2693.05
"MPU" 76+12.53, G.B. INV. 2693.62
"MPU" 76+12.44, 10.00' LT. 2' MIN. COVER CONCRETE PAD (TYP.)
"MPU" 76+65.38, G.B. INV. 2693.70
"MPU" 76+80.00 CONSTRUCT HEADWALL BEGIN MAIN TENANCE ACCESS STRUCTURE INV. 2692.57
"MPU" 76+92.24 EX 36" WATER W/48" STEEL CASING TOP PIPE ELEV (2688.84)
"MPU" 77+00.00, 5.00' RT. 18" RCP INV. IN 2692.03
"MPU" 77+25.00, 5.00' RT. 18" RCP INV. IN 2677.34 SEE SHEET SD25
"MPU" 77+56.17, PC INV. 2681.90
"MPU" 77+80.00, 5.00' RT. INSTALL NDOT TYPE 1 MANHOLE RISER (PER DETAIL ON SHEET S1) RIM ELEV. 2682.57
"MPU" 77+92.24 EX 36" WATER W/48" STEEL CASING TOP PIPE ELEV (2688.84)
"MPU" 78+00.00, 5.00' RT. INSTALL NDOT TYPE 1 MANHOLE RISER (PER DETAIL ON SHEET S1) RIM ELEV. 2688.57
"MPU" 78+00.00, 5.00' LT. 6" SCH 40 PVC RCB STUB OUT INV. 2693.05
"MPU" 78+12.53, G.B. INV. 2693.62
"MPU" 78+12.44, 10.00' LT. 2' MIN. COVER CONCRETE PAD (TYP.)
"MPU" 78+65.38, G.B. INV. 2693.70
"MPU" 78+80.00 CONSTRUCT HEADWALL BEGIN MAIN TENANCE ACCESS STRUCTURE INV. 2692.57
"MPU" 78+92.24 EX 36" WATER W/48" STEEL CASING TOP PIPE ELEV (2688.84)
"MPU" 79+00.00, 5.00' RT. 18" RCP INV. IN 2692.03
"MPU" 79+25.00, 5.00' RT. 18" RCP INV. IN 2677.34 SEE SHEET SD25
"MPU" 79+56.17, PC INV. 2681.90
"MPU" 79+80.00, 5.00' RT. INSTALL NDOT TYPE 1 MANHOLE RISER (PER DETAIL ON SHEET S1) RIM ELEV. 2682.57
"MPU" 79+92.24 EX 36" WATER W/48" STEEL CASING TOP PIPE ELEV (2688.84)
"MPU" 80+00.00, 5.00' RT. INSTALL NDOT TYPE 1 MANHOLE RISER (PER DETAIL ON SHEET S1) RIM ELEV. 2688.57
"MPU" 80+00.00, 5.00' LT. 6" SCH 40 PVC RCB STUB OUT INV. 2693.05
"MPU" 80+12.53, G.B. INV. 2693.62
"MPU" 80+12.44, 10.00' LT. 2' MIN. COVER CONCRETE PAD (TYP.)
"MPU" 80+65.38, G.B. INV. 2693.70
"MPU" 80+80.00 CONSTRUCT HEADWALL BEGIN MAIN TENANCE ACCESS STRUCTURE INV. 2692.57
"MPU" 80+92.24 EX 36" WATER W/48" STEEL CASING TOP PIPE ELEV (2688.84)
"MPU" 81+00.00, 5.00' RT. 18" RCP INV. IN 2692.03
"MPU" 81+25.00, 5.00' RT. 18" RCP INV. IN 2677.34 SEE SHEET SD25
"MPU" 81+56.17, PC INV. 2681.90
"MPU" 81+80.00, 5.00' RT. INSTALL NDOT TYPE 1 MANHOLE RISER (PER DETAIL ON SHEET S1) RIM ELEV. 2682.57
"MPU" 81+92.24 EX 36" WATER W/48" STEEL CASING TOP PIPE ELEV (2688.84)
"MPU" 82+00.00, 5.00' RT. INSTALL NDOT

I:\6500\dwg\DESIGN\PRF HPU CHANNEL.dwg

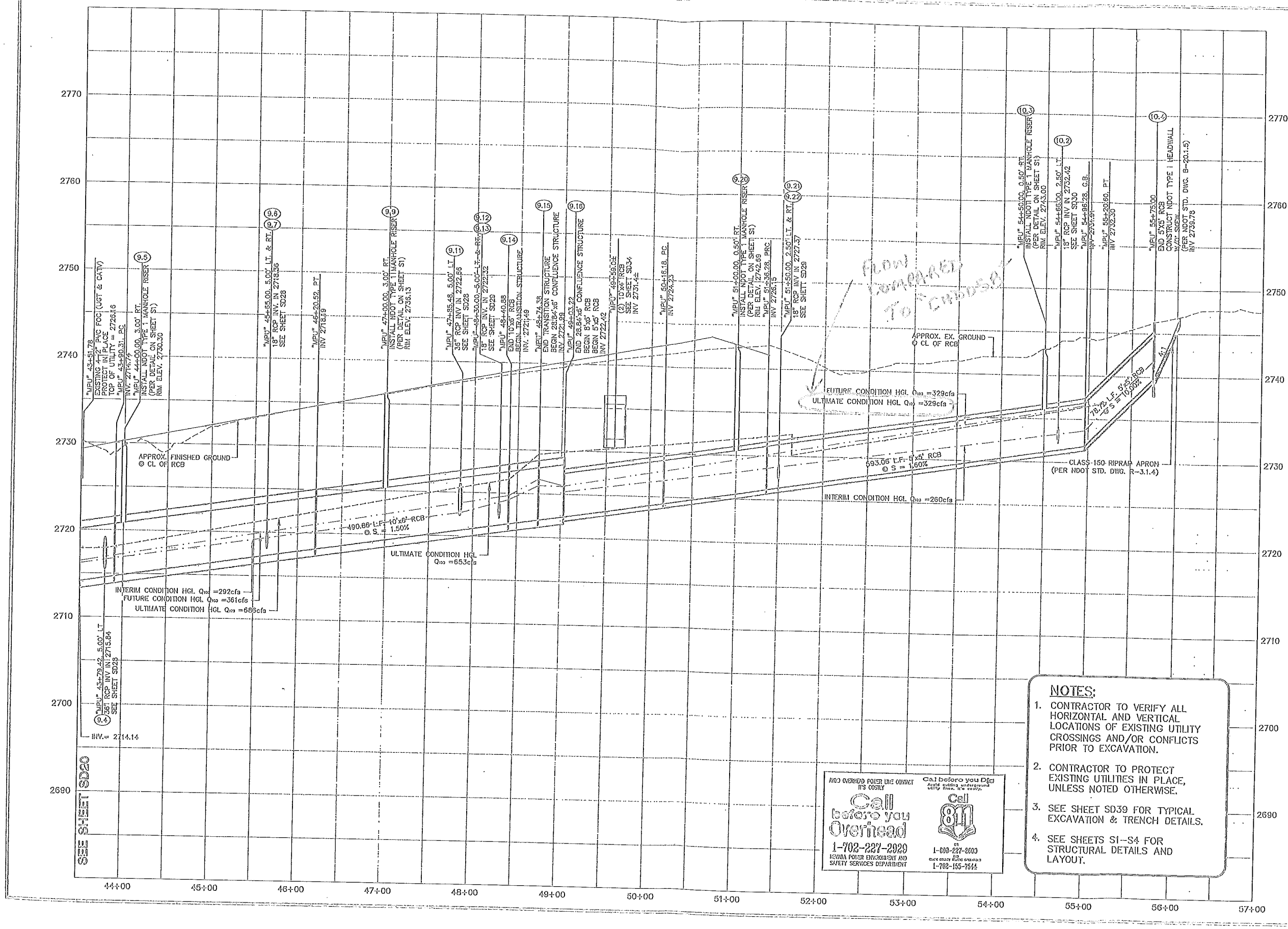
DRAWN BY: JB 6/30/2008	STORM DRAIN PROFILES "MPU 39+00 TO "MPU 43+60	HORSE DRIVE / US 95 INTERCHANGE	PUBLIC WORKS DEPARTMENT CITY OF LAS VEGAS, NV 400 E. STEWART AVE. LAS VEGAS, NV 89101 702-229-6272	Las Vegas 2727 SOUTH RAINBOW BOULEVARD LAS VEGAS, NEVADA 89146-5145 Ph. (702) 873-7550 Fax (702) 332-2397	REV. / DATE / BY / REVISION
DESIGNED BY: JB 6/30/2008					
CHECKED BY: JJA 6/30/2008					
PROJECT NO: 6500	SCALE: 1"=50' HORIZ. 1"=5' VERT.				

JAMES A. HAUER 9787 — REGISTERED PROFESSIONAL ENGINEER — CIVIL — No. 10937 — EXP. 12/31/08 — STATE OF NEVADA

SHEET SD20 434 OF 455 SHEETS — DRAWING NO. 107V3760



11430b



NOTES:

1. CONTRACTOR TO VERIFY ALL HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING UTILITY CROSSINGS AND/OR CONFLICTS PRIOR TO EXCAVATION.
2. CONTRACTOR TO PROTECT EXISTING UTILITIES IN PLACE, UNLESS NOTED OTHERWISE.
3. SEE SHEET SD39 FOR TYPICAL EXCAVATION & TRENCH DETAILS.
4. SEE SHEETS S1-S4 FOR STRUCTURAL DETAILS AND LAYOUT.

ANY OVERHEAD POWER LINE CONTACT IT'S COSTLY
Call before you Overhead
1-702-227-2929
NEVADA POWER ENGINEERING AND SAFETY SERVICES DEPARTMENT

Call before you Dig
Avoid cutting underground utility lines. It's costly.
Call 811
or
1-800-227-2600
1-702-155-7644

SEE SHEET SD20

SEE SHEET SD29

SEE SHEET SD30

SEE SHEET SD28

SEE SHEET SD28

SEE SHEET SD34

SEE SHEET SD29

SEE SHEET SD30

SEE SHEET SD28

SEE SHEET SD28

REV	DATE	BY	REVISION

PUBLIC WORKS DEPARTMENT
CITY OF LAS VEGAS, NV
400 E. STEWART AVE
LAS VEGAS, NEVADA 89101
702-229-6272
Engineering consulting standards • planners • land surveyors
2322 BOOK BINDERY DRIVE, SUITE 100, NORTH LAS VEGAS, NEVADA 89030
PH. (702) 405-2550 FAX (702) 405-2557

STORM DRAIN PROFILE
MPU 43+50 TO MPU 57+00

HORSE DRIVE / US 95
INTERCHANGE

DRAWN BY: SR	9/20/2006	SCALE: 1"=50' HORIZ. 1"=5' VERT.	
DESIGNED BY: JLB	9/20/2006		
CHECKED BY: LHC	9/20/2006	PROJECT NO.: 6500	

PROFESSIONAL ENGINEER
LANT K. HAVITT
EXP. 12/31/08
CIVIL
No. 10267

SHEET
SD31
135 OF 143 SHEETS

DRAWING NO.
107V0769

11430?

I:\6500\107V0769\DESIGN\PROF RPT\ CHANNEL.dwg

APPENDIX E

Response to Comment No. 23

Iron Mountain Road Flow

Proposed Condition SDN3 Storm HEC-1 Analysis

DARF Worksheet – Proposed Condition HEC-1 Analysis

HU-HO = HEC-1 Area + DIV-1
HU-HO = 0.25 + 0.89
HU-HO = 1.14 mi^2

SH-HO = HEC-1 Area + DIV-2
SH-HO = 0.10 + 1.20
SH-HO = 1.30 mi^2

IR-SH = HEC-1 Area + DIV-2 + DIV-3
IR-SH = 0.16 + 1.20 + 0.82
IR-SH = 2.18 mi^2

HU-IR = HEC-1 Area + DIV-1 + DIV-2 + DIV-3
HU-IR = 0.67 + 0.89 + (1.20 – 0.89) + 0.82
HU-IR = 2.69 mi^2

WPT40 = HEC-1 Area + DIV-1 + DIV-2 + DIV-3
WPT40 = 0.71 + 0.89 + (1.20 – 0.89) + 0.82
WPT40 = 2.73 mi^2

COFFF2 = HEC-1 Area + DIV-1 + DIV-2 + DIV-3
COFFF2 = 2.98 + 0.89 + (1.20 – 0.89) + 0.82
COFFF2 = 5.00 mi^2

CKC5/DCKC7 = HEC-1 Area + DIV-1 + DIV-2 + DIV-3
CKC5/DCKC7 = 3.03 + 0.89 + (1.20 – 0.89) + 0.82
CKC5/DCKC7 = 5.05 mi^2

DVCUL8 = COFF17
DVCUL8 = 0.04 mi^2

DVCUL9 = COF21B
DVCUL9 = 0.58 mi^2

COFF23 = HEC-1 Area – DVCUL8 – DVCUL9
COFF23 = 0.63 - 0.04 – 0.58
COFF23 = 0.01 mi^2

DCUL10 = COFF23
DCUL10 = 0.01 mi^2

CP26WT/DCUL11 = HEC-1 Area – DVCUL8 – DVCUL9 – DCUL10
CP26WT/DCUL11 = 0.69 – 0.04 – 0.58 – 0.01
CP26WT/DCUL11 = 0.06 mi^2

CHD04B = HEC-1 Area – DCHD2B
CHD04B = 0.13 – 0.09
CHD04B = 0.04 mi^2

CHD05B = HEC-1 Area – DCHD4B
CHD05B = 0.26 – 0.13
CHD05B = 0.13 mi^2

CHD07B = HEC-1 Area – DCHD6B
CHD07B = 0.20 – 0.19
CHD07B = 0.01 mi^2

CHD7B2 = HEC-1 Area – DCHD4B - DCHD6B
CHD7B2 = 0.49 – 0.13 – 0.19
CHD7B2 = 0.17 mi^2

CRET9 = DVCUL9
CRET9 = 0.58 mi^2

CRET10 = DVCUL9 + DCUL10
CRET10 = 0.58 + 0.01
CRET10 = 0.59 mi^2

CRET10 = DVCUL9 + DCUL10
CRET10 = 0.58 + 0.01
CRET10 = 0.59 mi^2

DIV11A = DVCUL9 + DCUL10 + DCUL11 + DCMPU6
DIV11A = 0.58 + 0.01 + 0.06 + 0.19
DIV11A = 0.59 mi^2

EPT16 = HEC-1 Area + CKC5
EPT16 = 1.17 + 5.05
EPT16 = 6.22 mi^2

FT-LC = HEC-1 Area + FTNOR + DCHD1B/95-5 + DCHD2B + DCHD4B
FT-LC = 0.40 + 0.08 + 0.03 + (0.09 - 0.03) + (0.13 - 0.09)
FT-LC = 0.61 mi^2

FT-MO = HEC-1 Area + FTNOR + DCHD1B/95-5 + DCHD2B + DCHD4B
FT-MO = 0.56 + 0.08 + 0.03 + (0.09 - 0.03) + (0.13 - 0.09)
FT-MO = 0.77 mi^2

SH-MO = HEC-1 Area + DCKC7
SH-MO = 1.78 + 5.05
SH-MO = 6.83 mi^2

CP43 = HEC-1 Area + DCKC7 + NORFA + DCHD1B/95-5 + DCHD2B + DCHD4B
CP43 = 2.34 + 5.05 + 0.08 + 0.03 + (0.09 - 0.03) + (0.13 - 0.09)
CP43 = 7.60 mi^2

CP44 = HEC-1 Area + CHD06B
CP44 = 0.11 + 0.19
CP44 = 0.30 mi^2

```
1*****************************************
*                                       *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
*             JUN  1998                 *
*           VERSION 4.1                 *
*                                       *
*  RUN DATE   05DEC11  TIME  13:11:40   *
*                                       *
*****************************************
```

```
*****************************************
*                                       *
*   U.S. ARMY CORPS OF ENGINEERS        *
*   HYDROLOGIC ENGINEERING CENTER       *
*        609 SECOND STREET              *
*      DAVIS, CALIFORNIA 95616          *
*         (916) 756-1104                *
*                                       *
*****************************************
```

```
X    X  XXXXXXX   XXXXX          X
X    X  X        X     X        XX
X    X  X        X              X
XXXXXXX  XXXX    X        XXXXX  X
X    X  X        X              X
X    X  X        X     X        X
X    X  XXXXXXX   XXXXX         XXX
```

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM


```
LINE          ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

              *DIAGRAM
    1         ID     SLATER HANIFAN GROUP
    2         ID     CARWIN ADVISORS
    3         ID     KYLE CANYON
    4         ID     MASTER DRAINAGE STUDY - CLV ADDENDUM #3
    5         ID     PROPOSED DRAINAGE CONDITION
    6         ID
    7         ID     RETURN PERIOD -------- 100 & 10-YEAR
    8         ID     DISTRIBUTION -------- 6-HOUR SDN3
    9         ID     PROJECT NO. ---------- WCP0902.003
   10         ID     FILENAME ------------ Proposed3.H1
   11         ID     DATE ----------------- 11/29/11
   12         ID     MODELED BY ---------- SMJ/KCR
   13         ID
   14         ID        SIX HOUR DEPTH-AREA REDUCTION FACTORS
   15         ID        DRAINAGE AREA (MI^2)    DARF
   16         ID        0.0-0.49                1.00
   17         ID        0.5-0.99                0.98
   18         ID        1.0-1.99                0.97
   19         ID        2.0-3.99                0.93
   20         ID        4.0-5.99                0.91
   21         ID        6.0-7.99                0.90
   22         ID        25-YR                   0.70
   23         ID        10-YR                   0.57
   24         ID
   25         IT      5       0       0     300
   26         IO      5       0       0
   27         IN      5       0       0
   28         JR   PREC    1.00    0.98    0.97    0.93    0.91    0.90    0.70    0.57
              *
   29         KK   OFF21
   30         KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
   31         PB    3.10
   32         PC       0   0.020   0.057   0.070   0.087   0.108   0.124   0.130   0.130   0.130
   33         PC   0.130   0.130   0.130   0.133   0.140   0.142   0.148   0.158   0.172   0.181
   34         PC   0.190   0.197   0.199   0.200   0.201   0.204   0.214   0.229   0.241   0.249
   35         PC   0.251   0.256   0.270   0.278   0.281   0.283   0.295   0.322   0.352   0.409
   36         PC   0.499   0.590   0.710   0.744   0.781   0.812   0.819   0.835   0.851   0.856
   37         PC   0.860   0.868   0.876   0.888   0.910   0.926   0.937   0.950   0.970   0.976
   38         PC   0.982   0.985   0.987   0.989   0.990   0.993   0.993   0.994   0.995   0.998
   39         PC   0.998   0.999       1
   40         BA   .5280
   41         LS       0    85.7
   42         UD   0.446
              *
   43         KK   OFF20
   44         KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
   45         BA   .3349
   46         PB    3.07
   47         LS       0    86.4
   48         UD   0.438
              *
```



```
LINE          ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

   49         KK     DB1
   50         KM   DETENTION BASIN 1
   51         BA   .0243
   52         PB    3.00
   53         LS       0    94.0
   54         UD   0.174
              *
   55         KK     PT1
   56         KM   DETENTION BASIN 1 INFLOW
   57         HC       3
              *
   58         KK    DET1
   59         KM   OUTLET = 2 - 30" ORIFICE
   60         KM   DICHARGE INTO SOUTHERN MAINTAINED ARROYO AND INTO DETENTION BASIN 2
   61         KO       1
   62         RS       1    ELEV    29.5
   63         SA       0    0.26    3.14    5.20    6.64
   64         SE    29.5      30      32      34    41.6
   65         SQ       0   23.62   85.18  127.22  158.48
   66         SE    29.5      31      34      38      42
              *
   67         KK    DIV1
   68         KM   DIVERT PORTION OF OUTFLOW EAST INTO SOUTHERN ARROYO
   69         DT   DIV-1
   70         DI       0     148
   71         DQ       0      68
              *
   72         KK   OFF18
   73         KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
   74         BA   .2799
   75         PB    3.00
   76         LS       0    86.2
   77         UD   0.332
              *
   78         KK     DB2
```

```
 79          KM   DETENTION BASIN 2
 80          BA   .0316
 81          PB    3.00
 82          LS      0    94.0
 83          UD   0.180
             *

 84          KK     PT2
 85          KM   DETENTION BASIN 2 INFLOW
 86          KM   COMBINATION OF OFF18, DB2, PLUS 30" FLOW PIPE FROM DET1
 87          HC      3
             *
1                                        HEC-1 INPUT                                        PAGE  3

       LINE  ID.......1.......2.......3.......4.......5.......6.......7.......8.......9.....10

 88          KK    DET2
 89          KM   OUTLET = 27" ORIFICE
 90          KO      1
 91          RS      1    ELEV      23
 92          SA      0    0.76    8.75    9.67    10.44
 93          SE     23      24      29      30       32
 94          SQ      0   16.57   41.71   45.89    53.28
 95          SE     23      25      29      30       32
             *

 96          KK    DIV2
 97          KM   DIVERT OUTFLOW INTO NORTHERN ARROYO
 98          DT   DIV-2
 99          DI      0     150
100          DQ      0     150
             *

101          KK   OFF16
102          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
103          BA   .7885
104          PB    3.06
105          LS      0    86.6
106          UD   0.692
             *

107          KK     DB3
108          KM   DETENTION BASIN 3
109          BA   .0302
110          PB    3.00
111          LS      0    94.0
112          UD   0.192
             *

113          KK     PT3
114          KM   DETENTION BASIN 3 INFLOW
115          HC      2
             *

116          KK    DET3
117          KM   OUTLET = 30" ORIFICE
118          KO      1
119          RS      1    ELEV       0
120          SA      0    0.50    6.66    9.09
121          SE      0       1       6    11.7
122          SQ      0   20.46   69.89   77.46
123          SE      0       2      10      12
             *

124          KK    DIV3
125          KM   DIVERT OUTFLOW INTO IRON MOUNTAIN
126          DT   DIV-3
127          DI      0     150
128          DQ      0     150
             *
1                                        HEC-1 INPUT                                        PAGE  4

       LINE  ID.......1.......2.......3.......4.......5.......6.......7.......8.......9.....10

129          KK   EMPTY
130          HC      2
             *

131          KK   DIV-1
132          KM   OUTFLOW FROM DETENTION BASIN 1 INTO SOUTHERN MAINTAINED ARROYO
133          DR   DIV-1
             *

134          KK   AROY1
135          KM   DOWNSTREAM OF SOUTHERN MAINTAINED ARROYO OUTFALL DISCHARGE
136          BA   .0028
137          PB    3.00
138          LS      0    88.0
139          UD    .100
             *

140          KK   WPRK5
141          BA   .0037
142          PB    3.00
143          LS      0    84.0
144          UD    .066
             *

145          KK  SHEEP1
146          KM   UNDEVELOPED FUTURE SHEEP MOUNTAIN PARKWAY
147          BA   .1011
148          PB    3.00
149          LS      0    87.9
150          UD    .168
             *

151          KK  SHEPAB
152          KM   DIVERT DISCHARGE INTO IRON MOUNTAIN DISCHARGE
153          DT  DSHEPC
154          DI      0     148
155          DQ      0      33
             *

156          KK  RSHEPA
157          KM   DIVERT DISCHARGE INTO NORTHERN MAINTAINED ARROYO
158          DT  DSHEPB
159          DI      0     115
160          DQ      0      70
             *

161          KK   AROY2
162          KM   DOWNSTREAM OF SOUTHERN MAINTAINED ARROYO DISCHARGE
163          BA   .0132
164          PB    3.00
165          LS      0    88.0
166          UD    .100
             *
1                                        HEC-1 INPUT                                        PAGE  5

       LINE  ID.......1.......2.......3.......4.......5.......6.......7.......8.......9.....10

167          KK   DUMMY
168          HC      5
             *
```

```
169          KK   WPRK3
170          BA    .0222
171          PB    3.00
172          LS       0    84.0
173          UD    .088
             *

174          KK    WGC2
175          BA   .0083
176          PB    3.00
177          LS       0    95.0
178          UD    .068
             *

179          KK   WML3B
180          BA   .0425
181          PB    3.00
182          LS       0    95.0
183          UD    .128
             *

184          KK   EGAN2
185          BA   .0037
186          PB    3.00
187          LS       0    98.0
188          UD    .118
             *

189          KK   DUMMY
190          HC       5
             *

191          KK  WPRK2A
192          BA    .0059
193          PB    3.00
194          LS       0    84.0
195          UD    .074
             *

196          KK  WPRK2B
197          BA    .0022
198          PB    3.00
199          LS       0    84.0
200          UD    .069
             *
```



```
LINE         ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

201          KK   AROY3
202          BA    .0043
203          PB    3.00
204          LS       0    88.0
205          UD    .100
             *

206          KK    WL3B
207          BA   .0253
208          PB    3.00
209          LS       0    90.0
210          UD    .122
             *

211          KK   DUMMY
212          HC       5
             *

213          KK  HORSE2
214          BA    .0117
215          PB    3.00
216          LS       0    98.0
217          UD    .103
             *

218          KK  HUAL2A
219          BA    .0053
220          PB    3.00
221          LS       0    98.0
222          UD    .129
             *

223          KK   HU-HO
224          KM   TOTAL FLOW AT INTERSECTION OF HUALAPAI AND HORSE
225          KM   ROUTED NORTH IN  HUALAPAI
226          HC       3
             *

227          KK    WML5
228          BA   .0370
229          PB    3.00
230          LS       0    95.0
231          UD    .096
             *

232          KK  WSCHL2
233          BA    .0171
234          PB    3.00
235          LS       0    91.0
236          UD    .079
             *
```



```
LINE         ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

237          KK   WPRK1
238          BA    .0115
239          PB    3.00
240          LS       0    84.0
241          UD    .066
             *

242          KK   STRT5
243          BA   .0065
244          PB    3.00
245          LS       0    98.0
246          UD    .081
             *

247          KK   DUMMY
248          HC       5
             *

249          KK  DSHEPB
250          KM   UNDEVELOPED SHEEP MOUNTAIN PARKWAY DISCHARGE INTO NORTHERN MAINTAINED ARROYO
251          DR  DSHEPB
             *

252          KK   AROY5
253          BA    .0122
254          PB    3.00
255          LS       0    88.0
256          UD    .100
             *
```

```
257          KK   WMLA1
258          BA   .0697
259          PB    3.00
260          LS       0    95.0
261          UD    .129
             *

262          KK  HUAL2B
263          BA   .0124
264          PB    3.00
265          LS       0    98.0
266          UD    .250
             *

267          KK   DUMMY
268          HC       5
             *

269          KK   DIV-2
270          KM   DETENTION BASIN 2 DISCHARGE INTO NORTHERN MAINTAINED ARROYO
271          DR   DIV-2
             *
1                                        HEC-1 INPUT                                    PAGE  8

        LINE         ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

272          KK   AROY4
273          KM   DOWNSTREAM OF NORTHERN MAINTAINED ARROYO OUTFALL DISCHARGE
274          BA   .0080
275          PB    3.00
276          LS       0    88.0
277          UD    .100
             *

278          KK    WML7
279          BA   .0380
280          PB    3.00
281          LS       0    95.0
282          UD    .097
             *

283          KK   WPRK4
284          BA   .0048
285          PB    3.00
286          LS       0    84.0
287          UD    .083
             *

288          KK  SHAUM2
289          BA   .0080
290          PB    3.00
291          LS       0    98.0
292          UD    .110
             *

293          KK   DUMMY
294          HC       5
             *

295          KK     WL7
296          BA   .0207
297          PB    3.00
298          LS       0    90.0
299          UD    .101
             *

300          KK   WNVE2
301          BA   .0018
302          PB    3.00
303          LS       0    88.0
304          UD    .131
             *

305          KK     WL6
306          BA   .0060
307          PB    3.00
308          LS       0    90.0
309          UD    .078
             *
1                                        HEC-1 INPUT                                    PAGE  9

        LINE         ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

310          KK  HORS1A
311          BA   .0086
312          PB    3.00
313          LS       0    98.0
314          UD    .095
             *

315          KK   SH-HO
316          KM   TOTAL FLOW AT INTERSECTION OF SHAUMBER AND HORSE
317          KM   ROUTED NORTH IN SHAUMBER
318          HC       5
             *

319          KK   DIV-3
320          KM   DETENTION BASIN 3 DISCHARGE INTO IRON MOUNTAIN
321          DR   DIV-3
             *

322          KK     WL8
323          BA   .0133
324          PB    3.00
325          LS       0    90.0
326          UD    .085
             *

327          KK   WNVE3
328          BA   .0028
329          PB    3.00
330          LS       0    88.0
331          UD    .159
             *

332          KK     WL5
333          BA   .0402
334          PB    3.00
335          LS       0    90.0
336          UD    .107
             *

337          KK  IRON1A
338          BA   .0055
339          PB    3.00
340          LS       0    98.0
341          UD    .087
             *

342          KK   DUMMY
343          HC       5
             *
1                                        HEC-1 INPUT                                    PAGE 10

        LINE         ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
```

```
344          KK  SHAUM3
345          BA   .0048
346          PB    3.00
347          LS       0    98.0
348          UD    .064
             *

349          KK   IR-SH
350          KM   TOTAL FLOW AT INTERSECTION OF IRON MOUNTAIN AND SHAUMBER
351          KM   ROUTED EAST IN IRON MOUNTAIN
352          HC       3
             *

353          KK    WML6
354          BA   .0284
355          PB    3.00
356          LS       0    95.0
357          UD    .085
             *

358          KK  HORS1B
359          BA   .0032
360          PB    3.00
361          LS       0    98.0
362          UD    .050
             *

363          KK     WL4
364          BA   .0492
365          PB    3.00
366          LS       0    90.0
367          UD    .133
             *

368          KK   DUMMY
369          HC       4
             *

370          KK  DSHEPC
371          KM   UNDEVELOPED SHEEP MOUNTAIN PARKWAY DISCHARGE INTO IRON MOUNTAIN ROAD
372          DR  DSHEPC
             *

373          KK  IRON1B
374          BA   .0044
375          PB    3.00
376          LS       0    98.0
377          UD    .101
             *
```



```
LINE         ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

378          KK   HU-IR
379          KM   TOTAL FLOW AT INTERSECTION OF HUALAPAI AND IRON MOUNTAIN
380          KM   ROUTED NORTH IN REGIONAL FACILITY ALIGNMENT
381          HC       4
             *

382          KK    OFFG
383          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
384          BA   .0397
385          PB    2.79
386          LS       0    86.5
387          UD  0.186
             *

388          KK   WPT40
389          KM   COMBINE HU-IR, OFFG
390          HC       2
             *

391          KK   OFF10
392          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
393          BA   .6710
394          PB    3.39
395          LS       0    86.2
396          UD  0.573
             *

397          KK  ROFF10
398          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
399          KM   STEPS       K X-FACTOR
400          RM       7   0.583    0.15
             *

401          KK   OFFFA
402          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
403          BA   .9938
404          PB    3.19
405          LS       0    83.8
406          UD  0.441
             *

407          KK  ROFFFA
408          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
409          KM   STEPS       K X-FACTOR
410          RM       3   0.238    0.15
             *

411          KK   OFFFB
412          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
413          BA   .5974
414          PB    2.89
415          LS       0    84.1
416          UD  0.490
             *
```



```
LINE         ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

417          KK  COFFF1
418          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
419          KM   COMBINE OFF10, OFFFA, OFFFB
420          HC       3
             *

421          KK   WPRK6
422          KM   IRON MOUNTAIN PARK
423          BA   .0157
424          PB    2.79
425          LS       0    84.0
426          UD  0.084
             *

427          KK  COFFF2
428          KM   COMBINE WPT40, COFFF1
429          HC       3
             *

430          KK    OFFE
431          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
432          BA   .0382
```

```
433          PB    2.78
434          LS       0    77.4
435          UD   0.232
             *

436          KK    OFFV
437          BA   .0055
438          PB    2.77
439          LS       0    77.0
440          UD   0.156
             *

441          KK    CKC5
442          KM   COMBINE COFFF2, OFFE, OFFV
443          HC       3
             *

444          KK   DCKC5
445          KM   DIVERT ALL FLOWS ACROSS US-95
446          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
447          DT   DCKC7
448          DI       0     100     500    1000    5000
449          DQ       0     100     500    1000    5000
             *

450          KK  OFF17B
451          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
452          KM   ADDED FROM HORSE INTERCHANGE MODEL
453          BA   .0080
454          PB   2.773
455          LS       0    92.1
456          UD   0.069
             *
1                                        HEC-1 INPUT                                        PAGE 13

          LINE       ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

457          KK  OFF17A
458          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
459          KM   ADDED FROM HORSE INTERCHANGE MODEL
460          BA   .0305
461          PB   2.773
462          LS       0    92.1
463          UD   0.104
             *

464          KK  COFF17
465          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
466          KM   ADDED FROM HORSE INTERCHANGE MODEL
467          KM   COMBINE OFF17A, OFF17B
468          KM   CULVERT AT BASIN OFF24B
469          HC       2
             *

470          KK  DCOF17
471          KM   FACILITY E-14
472          KM   FLOW SPLIT AT VTN CULVERT 8
473          KM   FLOW SPLITS TO BETWEEN FRONTAGE AND SB ROADS OF US-95
474          KM   ALL FLOW DIVERTED - DEVELOPMENT EXISTS ADJACENT TO FRONTAGE ROAD
475          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
476          DT  DVCUL8
477          DI       0    5000
478          DQ       0    5000
             *

479          KK     ON1
480          KM   START CENTENNIAL POINT HEC-1 DATA
481          BA   .0042
482          PB    2.86
483          LS       0    91.2
484          UD   0.085
             *

485          KK    ON4A
486          BA   .0045
487          LS       0    91.2
488          UD   0.077
             *

489          KK      C1
490          KM   COMBINE ON1 AND ON4A
491          HC       2
             *

492          KK      D1
493          KM   DIVERT FLOW INTO BASIN ON6
494          DT    DIV1
495          DI       0      16
496          DQ       0      13
             *
1                                        HEC-1 INPUT                                        PAGE 14

          LINE       ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

497          KK     ON5
498          BA   .0052
499          LS       0    91.2
500          UD   0.080
             *

501          KK      C2
502          KM   COMBINE C1 AND ON5
503          HC       2
             *

504          KK     D1A
505          KM   DIVERT FLOW FOR LATER USE IN HEC-1 RUN
506          DT   DIV1A
507          DI       0      50
508          DQ       0      50
             *

509          KK    ON4B
510          BA   .0031
511          LS       0    91.2
512          UD   0.085
             *

513          KK    RET1
514          KM   RETRIEVE FLOW FROM D1
515          DR    DIV1
             *

516          KK     ON6
517          BA   .0039
518          LS       0    91.2
519          UD   0.074
             *

520          KK      C3
521          KM   COMBINE RET1 AND ON6
522          HC       2
             *

523          KK     D1B
```

```
 524          KM   DIVERT FLOW FOR LATER USE IN HEC-1 RUN
 525          DT   DIV1B
 526          DI       0      50
 527          DQ       0      50
              *

 528          KK     ON2
 529          BA   .0050
 530          LS       0    91.2
 531          UD   0.080
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9.....10

 532          KK     ON3
 533          BA   .0063
 534          LS       0    91.5
 535          UD   0.079
              *

 536          KK     ON9
 537          BA   .0045
 538          LS       0    91.4
 539          UD   0.096
              *

 540          KK      C4
 541          KM   COMBINE ON2, ON3 AND ON9
 542          HC       3
              *

 543          KK      D2
 544          KM   DIVERT FLOW INTO BASIN ON8
 545          DT    DIV2
 546          DI       0      29
 547          DQ       0      24
              *

 548          KK    ON10
 549          BA   .0025
 550          LS       0    91.5
 551          UD   0.071
              *

 552          KK      C5
 553          KM   COMBINE C4 AND ON10
 554          HC       2
              *

 555          KK      D3
 556          KM   DIVERT FLOW INTO BASIN ON7
 557          DT    DIV3
 558          DI       0      10
 559          DQ       0       8
              *

 560          KK    ON11
 561          BA   .0025
 562          LS       0    91.5
 563          UD   0.067
              *

 564          KK      C6
 565          KM   COMBINE C5 AND ON11
 566          HC       2
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9.....10

 567          KK     D1C
 568          KM   DIVERT FLOW FOR LATER USE IN HEC-1 RUN
 569          DT   DIV1C
 570          DI       0      50
 571          DQ       0      50
              *

 572          KK    CD1C
 573          KM   COMBINE D1A, ON4B, D1B AND D1C
 574          KM   PICK UP AT OFF23
 575          HC       4
              *

 576          KK   RCD1C
 577          KM   ROUTE CD1C TO BASIN OFF23
 578          RK    2640  0.0346    0.02            TRAP     100       2
              *

 579          KK  DRCD1C
 580          KM   DIVERT FLOW TO BASIN OFF23
 581          DT  DOFF23
 582          DI       0      50     100
 583          DQ       0      50     100
              *

 584          KK     ON8
 585          BA   .0042
 586          LS       0    83.5
 587          UD   0.074
              *

 588          KK    RET2
 589          KM   RETRIEVE FLOW FROM D2
 590          DR    DIV2
              *

 591          KK      C7
 592          KM   COMBINE ON11 AND RET2
 593          HC       2
              *

 594          KK    RET3
 595          KM   RETRIEVE FLOW FROM D3
 596          DR    DIV3
              *

 597          KK     ON7
 598          BA   .0073
 599          LS       0    91.3
 600          UD   0.077
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9.....10

 601          KK      C8
 602          KM   COMBINE C7, RET3 AND ON7
 603          HC       3
              *

 604          KK   RET1A
 605          KM   RETRIEVE FLOW FROM D1A IN TEE PEE
 606          DR   DIV1A
```

```
                *
607             KK   RET1B
608             KM   RETRIEVE FLOW FROM D1B IN TEE PEE
609             DR   DIV1B
                *
610             KK   RET1C
611             KM   RETRIEVE FLOW FROM D1C IN TEE PEE
612             DR   DIV1C
                *
613             KK     C9
614             KM   COMBINE C8, RET1A, RET1B, RET1C IN TEE PEE
615             KM   END CENTENNIAL POINT HEC-1 DATA
616             HC       3
                *
617             KK    ON2D
618             KM   START GRAND CANYON APARTMENTS HEC-1 DATA
619             BA   .0105
620             PB    2.90
621             LS       0      95
622             UD   0.094
                *
623             KK    ON5D
624             BA   .0038
625             LS       0      95
626             UD   0.067
                *
627             KK     CP1
628             KM   COMBINE ON2D AND ON5D
629             HC       2
                *
630             KK    ON3D
631             BA   .0036
632             LS       0      95
633             UD   0.084
                *
1                                                HEC-1 INPUT                                                PAGE 18

              LINE      ID.......1.......2.......3.......4.......5.......6.......7.......8.......9.....10

634             KK     CP2
635             KM   COMBINE CP1 AND ON3D
636             HC       2
                *
637             KK    ON1D
638             BA   .0075
639             LS       0      95
640             UD   0.079
                *
641             KK    ON4D
642             BA   .0041
643             LS       0      95
644             UD   0.096
                *
645             KK     CP3
646             KM   COMBINE ON1D AND ON4D
647             HC       2
                *
648             KK     CP4
649             KM   COMBINE CP2 AND CP3
650             KM   END GRAND CANYON APARTMENTS HEC-1 DATA
651             HC       2
                *
652             KK  CENGCA
653             KM   COMBINE DRCD1C, C9, CP4
654             KM   CD1C IS DIVERSION OF FLOW ON TEE PEE FROM CENTENNIAL POINT
655             KM   CP4 AND C9 ARE ENDING OF THE APARTMENT COMPLEX AND DEVELOPMENT
656             HC       4
                *
657             KK    WML4
658             BA   .0373
659             PB    3.00
660             LS       0    93.2
661             UD    .121
                *
662             KK  SHAUM1
663             BA    .0066
664             PB    3.00
665             LS       0    98.0
666             UD    .098
                *
1                                                HEC-1 INPUT                                                PAGE 19

              LINE      ID.......1.......2.......3.......4.......5.......6.......7.......8.......9.....10

667             KK   WML3A
668             BA   .0174
669             PB    3.00
670             LS       0    95.0
671             UD    .080
                *
672             KK    WML2
673             BA   .0858
674             PB    3.00
675             LS       0    94.2
676             UD    .123
                *
677             KK   DUMMY
678             HC       4
                *
679             KK   EGAN1
680             BA   .0048
681             PB    3.00
682             LS       0    98.0
683             UD    .104
                *
684             KK  RACL1A
685             BA    .0062
686             PB    3.00
687             LS       0    98.0
688             UD    .090
                *
689             KK   RA-EG
690             KM   TOTAL FLOW AT INTERSECTION OF RACEL AND EGAN CREST
691             KM   ROUTED EAST IN RACEL
692             HC       3
                *
```

```
693          KK    WML1
694          BA   .0232
695          PB    3.00
696          LS       0    94.9
697          UD    .098
             *

698          KK   STRT4
699          BA   .0031
700          PB    3.00
701          LS       0    98.0
702          UD    .125
             *
1                                        HEC-1 INPUT                                        PAGE 20

         LINE        ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

703          KK    WL3A
704          BA   .0324
705          PB    3.00
706          LS       0    90.0
707          UD    .125
             *

708          KK  WSCHL1
709          BA   .0573
710          PB    3.00
711          LS       0    91.0
712          UD    .101
             *

713          KK   DUMMY
714          HC       5
             *

715          KK   HUAL1
716          BA   .0057
717          PB    3.00
718          LS       0    98.0
719          UD    .130
             *

720          KK  RACL1B
721          BA   .0045
722          PB    3.00
723          LS       0    98.0
724          UD    .071
             *

725          KK   RA-HU
726          KM   TOTAL FLOW AT INTERSECTION OF RACEL AND HUALAPAI
727          KM   ROUTED EAST IN RACEL
728          HC       3
             *

729          KK     WL1
730          BA   .1068
731          PB    2.93
732          LS       0    90.0
733          UD    .187
             *

734          KK   WNVE1
735          BA   .0063
736          PB    2.93
737          LS       0    94.0
738          UD    .075
             *
1                                        HEC-1 INPUT                                        PAGE 21

         LINE        ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

739          KK    WL2A
740          BA   .0502
741          PB    2.93
742          LS       0    90.0
743          UD    .156
             *

744          KK  RACL1C
745          BA   .0068
746          PB    2.93
747          LS       0    98.0
748          UD    .096
             *

749          KK   DUMMY
750          HC       5
             *

751          KK  GRAND1
752          BA   .0031
753          PB    2.93
754          LS       0    98.0
755          UD    .132
             *

756          KK    CP26
757          KM   KYLE CANYON DEVELOPMENT TOTAL DISCHARGE AT GRAND CANYON AND OSTINATO
758          KM   ROUTED THRU CENTENNIAL POINT TOWARD US-95
759          HC       2
             *

760          KK    CCP4
761          KM   COMBINE DRCD1C, C9, CP4, CP26
762          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
763          HC       2
             *

764          KK  OFF21B
765          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
766          KM   BASIN IS DEVELOPED, CHECK FOR REFERENCE MATERIAL
767          BA   .0414
768          PB   2.775
769          LS       0      95
770          UD   0.110
             *

771          KK  COF21B
772          KM   COMBINE OFF21B WITH FLOW FROM CENTENNIAL POINT AND GRAND CANYON APTS
773          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
774          HC       2
             *
1                                        HEC-1 INPUT                                        PAGE 22

         LINE        ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

775          KK  DOF21B
776          KM   FACILITY E-15
777          KM   FLOW SPLIT AT VTN CULVERT 9
778          KM   FLOW SPLITS TO BETWEEN FRONTAGE AND SB ROADS OF US-95
779          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
780          DT   DVCUL9
```

```
781          DI       0    5000
782          DQ       0    5000
             *

783          KK  ROFF23
784          KM   RETRIEVE FLOW FROM DIVOFF23
785          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
786          DR  DOFF23
             *

787          KK   OFF23
788          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
789          BA   .0091
790          PB   2.787
791          LS       0      95
792          UD   0.109
             *

793          KK  COFF23
794          KM   COMBINE OFF23,RDOF21B, DOFF23, DCOFF17
795          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
796          HC       4
             *

797          KK  DCOF23
798          KM   FACILITY E-16
799          KM   FLOW SPLIT AT VTN CULVERT 10
800          KM   DIVERSION TO BETWEEN FRONTAGE AND SB ROADS OF US-95
801          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
802          DT  DCUL10
803          DI       0     300     600     748    1080    1398    1614
804          DQ       0     299     599     700     799     859     891
             *

805          KK     GT1
806          BA   .0243
807          PB    3.00
808          LS       0    98.0
809          UD    .256
             *

810          KK    OFFU
811          KM   ADD INTERIM FLOW SPLIT FROM GRAND TETON STORM DRAIN TOWARD VTN CULVERT 11
812          BF     203
813          BA   .0398
814          PB    2.93
815          LS       0    83.6
816          UD   0.196
             *
1                                        HEC-1 INPUT                                    PAGE 23

         LINE        ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

817          KK  CP26WT
818          KM   COMBINE DCUL10, GT1, OFFU, INTERIM FLOW SPLIT FROM GRAND TETON STORM DRAIN
819          HC       3
             *

820          KK  DC26WT
821          KM   FACILITY E-17
822          KM   FLOW SPLIT AT VTN CULVERT 11
823          KM   DCUL11 = EAST THRU CULVERT
824          KM   DC26WT = SOUTH IN DITCH WEST OF FRONTAGE ROAD
825          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
826          DT  DCUL11
827          DI       0     100     700     900    1056
828          DQ       0      99     699     899    1000
             *

829          KK    95-5
830          KM   REVISED FROM GCW MASTER DRAINAGE STUDY, MINUS OFFV
831          BF       0
832          BA   .0303
833          PB    2.77
834          LS       0    89.1
835          UD   0.082
             *

836          KK  DHD01B
837          KM   FACILITY E-9
838          KM   FLOW SPLIT AT VTN CULVERT 1
839          KM   FLOW SPLITS TO BETWEEN NB AND SB ROADS OF US-95
840          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
841          DT  DCHD1B
842          DI       0     133     187     250
843          DQ       0     120     135     150
             *

844          KK    OFF8
845          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
846          BA   .0133
847          PB    2.77
848          LS       0    89.1
849          UD   0.111
             *

850          KK    OFFY
851          BA   .0125
852          PB    2.77
853          LS       0    77.0
854          UD   0.217
             *
1                                        HEC-1 INPUT                                    PAGE 24

         LINE        ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

855          KK  WGED1B
856          BA   .0367
857          PB    2.77
858          LS       0    92.8
859          UD    .110
             *

860          KK  CHD02B
861          KM   COMBINE RDHD1B, OFF8, OFFY, WGED1B
862          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
863          HC       4
             *

864          KK  DHD02B
865          KM   FACILITY E-10
866          KM   FLOW SPLIT AT VTN CULVERT 2
867          KM   FLOW SPLITS TO BETWEEN NB AND SB ROADS OF US-95
868          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
869          DT  DCHD2B
870          DI       0     100     138
871          DQ       0      99     135
             *

872          KK  WGED1A
873          BA   .0167
874          PB    2.93
875          LS       0    94.6
876          UD    .096
             *
```

```
 877          KK   STRT3
 878          BA   .0016
 879          PB    2.93
 880          LS       0    98.0
 881          UD    .050
              *

 882          KK   WPT49
 883          KM   TOTAL KYLE CANYON DEVELOPMENT DISCHARGE TOWARD VTN CULVERT 4
 884          HC       2
              *

 885          KK    95-6
 886          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
 887          BA   .0104
 888          PB    2.77
 889          LS       0    89.9
 890          UD   0.095
              *
1                                        HEC-1 INPUT                                        PAGE 25

        LINE  ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

 891          KK    OFFW
 892          BA   .0120
 893          PB    2.77
 894          LS       0    77.1
 895          UD    .184
              *

 896          KK  CHD04B
 897          KM   COMBINE RDHD2B, WPT49, 95-6, OFFW
 898          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
 899          HC       4
              *

 900          KK  DHD04B
 901          KM   FACILITY E-11
 902          KM   FLOW SPLIT AT VTN CULVERT 4
 903          KM   FLOW SPLITS TO BETWEEN NB AND SB ROADS OF US-95
 904          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
 905          DT  DCHD4B
 906          DI       0     611     811    1102    1379    1647
 907          DQ       0     611     733     855     977    1099
              *

 908          KK    WBU3
 909          BA   .0661
 910          PB    2.93
 911          LS       0    95.0
 912          UD    .127
              *

 913          KK   STRT2
 914          BA   .0035
 915          PB    2.93
 916          LS       0    98.0
 917          UD    .078
              *

 918          KK  GRAND3
 919          BA   .0100
 920          PB    2.93
 921          LS       0    98.0
 922          UD    .124
              *

 923          KK   WBU2B
 924          BA   .0214
 925          PB    2.93
 926          LS       0    95.0
 927          UD    .092
              *
1                                        HEC-1 INPUT                                        PAGE 26

        LINE  ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

 928          KK    WGC1
 929          BA   .0187
 930          PB    2.93
 931          LS       0    95.0
 932          UD    .070
              *

 933          KK   WPT48
 934          KM   TOTAL KYLE CANYON DEVELOPMENT DISCHARGE TOWARD VTN CULVERT 5
 935          HC       5
              *

 936          KK   95-7A
 937          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
 938          BA   .0069
 939          PB    2.77
 940          LS       0    92.6
 941          UD   0.075
              *

 942          KK  CHD05B
 943          KM   COMBINE RDHD4B, WPT48, 95-7A
 944          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
 945          KM   DISCHARGE DIRECTLY INTO EXISTING US-95 INTERIM MPU FACILITY
 946          HC       3
              *

 947          KK    WBU1
 948          BA   .0358
 949          PB    2.93
 950          LS       0    95.0
 951          UD    .102
              *

 952          KK   STRT1
 953          BA   .0048
 954          PB    2.93
 955          LS       0    98.0
 956          UD    .090
              *

 957          KK   WBU2A
 958          BA   .0505
 959          PB    2.93
 960          LS       0    95.0
 961          UD    .114
              *

 962          KK    WL2B
 963          BA   .0631
 964          PB    2.93
 965          LS       0    90.0
 966          UD    .160
              *
1                                        HEC-1 INPUT                                        PAGE 27

        LINE  ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
```

```
967           KK  GRAND2
968           BA   .0043
969           PB    2.93
970           LS       0    98.0
971           UD    .146
              *

972           KK   DUMMY
973           HC       5
              *

974           KK  HORSE3
975           BA   .0117
976           PB    2.93
977           LS       0    98.0
978           UD    .098
              *

979           KK   WPT46
980           KM   TOTAL KYLE CANYON DEVELOPMENT DISCHARGE TOWARD VTN CULVERT 6
981           HC       2
              *

982           KK   95-8A
983           KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
984           BA   .0052
985           PB    2.77
986           LS       0    92.6
987           UD   0.064
              *

988           KK   OFF14
989           KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
990           BA   .0128
991           PB    2.77
992           LS       0    86.9
993           UD   0.090
              *

994           KK  CHD06B
995           KM   COMBINE WPT46, 95-8A, OFF14
996           KM   REVISED FROM GCW MASTER DRAINAGE STUDY
997           KM   TO ACCOUNT FOR DIRECT CONNECTION FROM CHD05B TO US-95 INTERIM MPU FACILITY
998           HC       3
              *

 999          KK  RCHD6B
1000          KM   FLOW SPLIT INTO US-95 MPU FACILITY
1001          KM   33% FLOW INTO 8'X6' MPU FACILITY
1002          DT  DCMPU6
1003          DI       0     425
1004          DQ       0     142
              *
1                                        HEC-1 INPUT                                        PAGE 28

          LINE        ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1005          KK  DHD06B
1006          KM   FACILITY E-13
1007          KM   FLOW SPLIT AT VTN CULVERT 6
1008          KM   FLOW SPLITS TO BETWEEN NB AND SB ROADS OF US-95
1009          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1010          DT  DCHD6B
1011          DI       0     580     881    1846    2671    3498    4331
1012          DQ       0     580     725     869    1014    1159    1304
              *

1013          KK   95-9A
1014          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1015          BA   .0110
1016          PB    2.77
1017          LS       0    92.6
1018          UD   0.098
              *

1019          KK  CHD07B
1020          KM   COMBINE RDHD6B, 95-9A
1021          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1022          HC       2
              *

1023          KK   OFF15
1024          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1025          BA   .0348
1026          PB    2.77
1027          LS       0    86.9
1028          UD   0.126
              *

1029          KK  CHD7B2
1030          KM   COMBINE CHD05B, CHD07B, OFF15
1031          KM   COMBINE FLOWS IN MPU FACILITY
1032          KM   REVISED FROM GCW MASTER DRAINAGE STUDY
1033          KM   TO ACCOUNT FOR DIRECT CONNECTION FROM CHD05B TO US-95 INTERIM MPU FACILITY
1034          HC       3
              *

1035          KK   CRET8
1036          KM   RETRIEVE FLOW FROM DVCUL8
1037          KM   FLOW BETWEEN FRONTAGE AND US-95, NOT IN FACILITY
1038          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1039          DR  DVCUL8
              *

1040          KK  DCRET8
1041          KM   FACILITY E-14A
1042          KM   FLOW SPLIT AT VTN CULVERT 8
1043          KM   DIVERSION TO BETWEEN NB AND SB ROADS OF US-95
1044          KM   BECAUSE PROPOSED MPU FACILITY REDUCES FLOW AT CULVERT 8,
1045          KM   SIDE WEIR RAISED TO MATCH EXISTING DIVERSION AS MUCH AS POSSIBLE
1046          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1                                        HEC-1 INPUT                                        PAGE 29

          LINE        ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1047          DT   DIV8A
1048          DI       0     117     240     431     556     618    1137
1049          DQ       0     117     159     179     207     219     329
              *

1050          KK    RET9
1051          KM   RETRIEVE FLOW FROM DVCUL9
1052          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1053          DR  DVCUL9
              *

1054          KK   CRET9
1055          KM   COMBINE RET9 AND RET8
1056          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1057          HC       2
              *

1058          KK  DCCUL9
1059          KM   FACILITY E-15A
```

```
1060          KM   FLOW SPLIT AT VTN CULVERT 9
1061          KM   DIVERSION TO EAST SIDE OF US-95
1062          KM   BECAUSE PROPOSED MPU FACILITY REDUCES FLOW AT CULVERT 9,
1063          KM   SIDE WEIR RAISED TO MATCH EXISTING DIVERSION
1064          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1065          DT   DIV9A
1066          DI       0     165     377     791     920    1065    2170
1067          DQ       0     165     203     241     250     260     437
              *

1068          KK   RET10
1069          KM   RETRIEVE FLOW FROM DCUL10
1070          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1071          DR   DCUL10
              *

1072          KK   CRET10
1073          KM   COMBINE RET10 AND RDCUL9
1074          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1075          HC       2
              *

1076          KK   DCU10A
1077          KM   FACILITY E-16A
1078          KM   FLOW SPLIT AT VTN CULVERT 10
1079          KM   DIVERSION TO EAST SIDE OF US-95
1080          KM   BECAUSE PROPOSED MPU FACILITY REDUCES FLOW AT CULVERT 10,
1081          KM   SIDE WEIR RAISED TO MATCH EXISTING DIVERSION
1082          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1083          DT   DIV10A
1084          DI       0     146     312     675    1424    2223
1085          DQ       0     146     291     360     437     583
              *
1                                    HEC-1 INPUT                                    PAGE 30

              LINE  ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

1086          KK   RET11
1087          KM   RETRIEVE FLOW FROM DCUL11
1088          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1089          DR   DCUL11
              *

1090          KK    RET6
1091          KM   RETRIEVE FLOW THAT SPLITS INTO MPU FACILITY AT VTN CULVERT 6
1092          DR   DCMPU6
              *

1093          KK   DIV11A
1094          KM   COMBINE RET11, RDCU10, CHD7B2, RET6
1095          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1096          HC       4
              *

1097          KK   DUMMY
1098          KM   CLEAR HEC-1 STACK
1099          HC       2
              *

1100          KK   RETD1B
1101          KM   RETRIEVE FLOW FROM VTN CULVERT 1
1102          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1103          DR   DCHD1B
              *

1104          KK   DHD1C
1105          KM   FACILITY E-9A
1106          KM   FLOW SPLIT AT VTN CULVERT 1
1107          KM   DIVERSION TO EAST SIDE OF US-95
1108          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1109          DT   DCHD1C
1110          DI       0      10      50
1111          DQ       0      10      50
              *

1112          KK   RETD2B
1113          KM   RETRIEVE FLOW FROM VTN CULVERT 2
1114          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1115          DR   DCHD2B
              *

1116          KK   CHD02C
1117          KM   COMBINE DCHD2B, RDHD1C
1118          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1119          HC       2
              *
1                                    HEC-1 INPUT                                    PAGE 31

              LINE  ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

1120          KK   DHD2C
1121          KM   FACILITY E-10A
1122          KM   FLOW SPLIT AT VTN CULVERT 2
1123          KM   DIVERSION TO EAST SIDE OF US-95
1124          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1125          DT   DCHD2C
1126          DI       0     100     200     250     400     500     600     700     800     900
1127          DI    1000
1128          DQ       0      65     100     122     201     258     323     384     447     514
1129          DQ     581
              *

1130          KK   RETD4B
1131          KM   RETRIEVE FLOW FROM VTN CULVERT 4
1132          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1133          DR   DCHD4B
              *

1134          KK   CHD04C
1135          KM   COMBINE DCHD4B, RDHD2C
1136          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1137          HC       2
              *

1138          KK   DHD4C
1139          KM   FACILITY E-11A
1140          KM   FLOW SPLIT AT VTN CULVERT 4
1141          KM   DIVERSION TO EAST SIDE OF US-95
1142          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1143          DT   DCHD4C
1144          DI       0     200     400     600     800    1000    1200    1400    1600    1800
1145          DI    2000
1146          DQ       0     181     212     262     336     416     503     609     719     823
1147          DQ     933
              *

1148          KK   DHD5C
1149          KM   FACILITY E-12A
1150          KM   FLOW SPLIT AT VTN CULVERT 5
1151          KM   DIVERSION TO EAST SIDE OF US-95
1152          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1153          DT   DCHD5C
1154          DI       0     150     300     450     600     750     800    1050    1200    1350
1155          DI    1500
1156          DQ       0     132     171     193     208     232     245     321     380     444
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1157          DQ     513
              *

1158          KK  RETD6B
1159          KM   RETRIEVE FLOW FROM VTN CULVERT 6
1160          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1161          DR  DCHD6B
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9.....10

1162          KK  CHD06C
1163          KM   COMBINE DCHD6B, RDHD5C
1164          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1165          HC       2
              *

1166          KK   DHD6C
1167          KM   FACILITY E-13A
1168          KM   FLOW SPLIT AT VTN CULVERT 6
1169          KM   DIVERSION TO EAST SIDE OF US-95
1170          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1171          DT  DCHD6C
1172          DI     0     200     400     600     800    1000    1200    1400    1600    1680
1173          DI    2000
1174          DQ     0   199.9   399.9     560     647     713     786     860     948     988
1175          DQ    1142
              *

1176          KK   DUMMY
1177          KM   EMPTY HEC-1 STACK
1178          HC       2
              *

1179          KK  RETC5C
1180          KM   RETRIEVE FLOW FROM VTN CULVERT 5
1181          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1182          DR  DCHD5C
              *

1183          KK   95-7B
1184          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1185          BA   .0081
1186          PB    2.77
1187          LS       0    92.6
1188          UD   0.087
              *

1189          KK  C95-7B
1190          KM   COMBINE DCHD5C, 95-7B
1191          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1192          HC       2
              *

1193          KK  RETC6C
1194          KM   RETRIEVE FLOW FROM VTN CULVERT 6
1195          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1196          DR  DCHD6C
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9.....10

1197          KK   95-8B
1198          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1199          BA   .0031
1200          PB    2.77
1201          LS       0    92.6
1202          UD   0.052
              *

1203          KK  C95-8B
1204          KM   COMBINE DSHD5C, DCHD6C, 95-8B
1205          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1206          HC       2
              *

1207          KK    SKY2
1208          BA   .0074
1209          PB    2.93
1210          LS       0    98.0
1211          UD    .099
              *

1212          KK  EMLA1A
1213          BA   .0135
1214          PB    2.93
1215          LS       0    95.0
1216          UD    .100
              *

1217          KK     TP1
1218          BA   .0009
1219          PB    2.93
1220          LS       0    98.0
1221          UD    .082
              *

1222          KK   BR-TP
1223          KM   TOTAL FLOW AT INTERSECTION OF BRENT AND TEE PEE
1224          KM   FLOW ROUTED EAST IN BRENT
1225          HC       5
              *

1226          KK     ES2
1227          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1228          BA   .0491
1229          PB    2.77
1230          LS       0    94.7
1231          UD   0.149
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9.....10

1232          KK  BRENT1
1233          BA   .0018
1234          PB    2.93
1235          LS       0    98.0
1236          UD    .062
              *

1237          KK    EGC3
1238          BA   .0215
1239          PB    2.93
1240          LS       0    95.0
1241          UD    .091
              *

1242          KK  HORSE5
1243          BA   .0048
1244          PB    2.93
1245          LS       0    98.0
```

```
1246          UD    .063
              *

1247          KK     CP44
1248          KM    TOTAL KYLE CANYON DEVELOPMENT DISCHARGE AT INTERSECTION OF BRENT LANE AND FOR
1249          KM    PROPOSED FLOW SPLIT INTO EXISTING STORM DRAIN SOUTH
1250          HC        5
              *

1251          KK    SOUTH
1252          KM    FLOW SPLIT AT BRENT/FT. APACHE
1253          KM    DIVERT STORM DRAIN DESIGN FLOW 65 CFS SOUTH IN FORT APACHE
1254          DT    BRENT
1255          DI        0      212      425
1256          DQ        0      160      373
              *

1257          KK     SKY1
1258          BA    .0074
1259          PB     2.93
1260          LS        0     98.1
1261          UD     .084
              *

1262          KK   HORSE4
1263          BA    .0035
1264          PB     2.93
1265          LS        0     98.0
1266          UD     .050
              *
```



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              LINE  ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

1267          KK     EGC1
1268          BA    .0076
1269          PB     2.93
1270          LS        0     95.0
1271          UD     .070
              *

1272          KK     EGC2
1273          BA    .0121
1274          PB     2.93
1275          LS        0     95.0
1276          UD     .095
              *

1277          KK    DUMMY
1278          HC        5
              *

1279          KK    9S-9B
1280          KM    REFERENCED FROM GCW MASTER DRAINAGE STUDY
1281          BA    .0133
1282          PB     2.77
1283          LS        0     92.6
1284          UD   0.139
              *

1285          KK     CP45
1286          KM    TOTAL KYLE CANYON DISCHARGE AT INTERSECTION OF FORT APACHE AND HORSE
1287          KM    PROPOSED FLOW SPLIT AT INTERSECTION
1288          HC        2
              *

1289          KK    HORSE
1290          KM    FLOW SPLIT AT HORSE/RACEL
1291          KM    DIVERT NWNS 101 CFS SOUTH IN FORT APACHE/RACEL
1292          DT    RACEL
1293          DI        0      101     1000
1294          DQ        0      101      101
              *

1295          KK   RETC4C
1296          KM    RETRIEVE FLOW FROM VTN CULVERT 4
1297          KM    REFERENCED FROM GCW MASTER DRAINAGE STUDY
1298          DR   DCHD4C
              *

1299          KK     SKY3
1300          BA    .0068
1301          PB     2.77
1302          LS        0     98.0
1303          UD     .146
              *
```



```
              LINE  ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

1304          KK     OFFH
1305          KM    REFERENCED FROM GCW MASTER DRAINAGE STUDY
1306          BA    .0074
1307          PB     2.77
1308          LS        0     89.5
1309          UD   0.082
              *

1310          KK    SK-IR
1311          KM    COMBINE DCHD4C, SKY3, OFFH
1312          HC        3
              *

1313          KK    EML1A
1314          BA    .0293
1315          PB     2.77
1316          LS        0     92.0
1317          UD     .124
              *

1318          KK    IRON2
1319          BA    .0041
1320          PB     2.93
1321          LS        0     98.0
1322          UD     .063
              *

1323          KK   EMLA1B
1324          BA    .0221
1325          PB     2.93
1326          LS        0     94.6
1327          UD     .104
              *

1328          KK      TP2
1329          BA    .0009
1330          PB     2.93
1331          LS        0     98.0
1332          UD     .079
              *

1333          KK    IR-TP
1334          KM    COMBINE SK-IR, EML1A, IRON2, EMLA1B, TP2
1335          HC        5
              *
```

```
1336          KK     ES1
1337          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1338          BA   .0173
1339          PB    2.77
1340          LS       0    92.7
1341          UD   0.109
              *
1                                        HEC-1 INPUT                                        PAGE 37

              LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

1342          KK   IRON3
1343          BA   .0021
1344          PB    2.93
1345          LS       0    98.0
1346          UD    .062
              *

1347          KK   IR-FT
1348          KM   COMBINE IR-TP, ES1, IRON3
1349          HC       3
              *

1350          KK   FTNOR
1351          KM   FLOW SPLIT AT IRON MOUNTAIN/FORT APACHE
1352          KM   DIVERT FLOW EAST IN IRON MOUNTAIN ROAD
1353          KM   DIVERT MAX. SD FLOW + MAX. STREET FLOW (118/98 CFS) LESS THAN NWNS 235/98 CFS
1354          DT  IREAST
1355          DI       0     115     242
1356          DQ       0      98     118
              *

1357          KK   FTNOR
1358          DT   FTNOR
1359          DI       0    1000
1360          DQ       0    1000
              *

1361          KK   DUMMY
1362          HC       4
              *

1363          KK  RETC1C
1364          KM   RETRIEVE FLOW FROM VTN CULVERT 1
1365          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1366          DR  DCHD1C
              *

1367          KK  RETC2C
1368          KM   RETRIEVE FLOW FROM VTN CULVERT 2
1369          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1370          DR  DCHD2C
              *

1371          KK    OFF9
1372          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1373          BA   .0424
1374          PB    2.77
1375          LS       0    89.1
1376          UD   0.194
              *
1                                        HEC-1 INPUT                                        PAGE 38

              LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

1377          KK   COFF9
1378          KM   COMBINE OFF9, DCHD1C, DCHD2C
1379          HC       3
              *

1380          KK    OFFS
1381          BA   .0109
1382          PB    2.77
1383          LS       0    77.0
1384          UD   0.172
              *

1385          KK    SKY4
1386          BA   .0095
1387          PB    2.77
1388          LS       0    98.0
1389          UD    .183
              *

1390          KK   LC-SK
1391          KM   TOTAL FLOW AT INTERSECTION OF LOG CABIN AND SKY
1392          KM   FLOW ROUTED EAST IN LOG CABIN
1393          HC       3
              *

1394          KK   EML1B
1395          BA   .0749
1396          PB    2.77
1397          LS       0    92.0
1398          UD    .129
              *

1399          KK  ESCHL1
1400          BA   .0249
1401          PB    2.77
1402          LS       0    83.5
1403          UD    .126
              *

1404          KK   EPRK1
1405          BA   .0123
1406          PB    2.77
1407          LS       0    69.0
1408          UD    .122
              *

1409          KK   STRT6
1410          BA   .0055
1411          PB    2.77
1412          LS       0    98.0
1413          UD    .141
              *
1                                        HEC-1 INPUT                                        PAGE 39

              LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

1414          KK   EML2A
1415          BA   .0665
1416          PB    2.77
1417          LS       0    92.0
1418          UD    .138
              *

1419          KK   DUMMY
1420          HC       5
              *

1421          KK     TP3
```

```
1422          BA   .0068
1423          PB    2.77
1424          LS       0    98.0
1425          UD    .231
              *

1426          KK     TP4A
1427          BA   .0029
1428          PB    2.77
1429          LS       0    98.0
1430          UD    .115
              *

1431          KK     LOG1
1432          BA   .0073
1433          PB    2.77
1434          LS       0    98.0
1435          UD    .088
              *

1436          KK   LC-TP
1437          KM   TOTAL FLOW AT INTERSECTION OF LOG CABIN AND TEE PEE
1438          KM   FLOW ROUTED EAST IN LOG CABIN
1439          HC       5
              *

1440          KK      EL1
1441          BA   .1161
1442          PB    2.77
1443          LS       0    82.0
1444          UD    .184
              *

1445          KK     LOG2
1446          BA   .0042
1447          PB    2.77
1448          LS       0    98.0
1449          UD    .065
              *
1                                        HEC-1 INPUT                                    PAGE 40

              LINE      ID.......1.......2.......3.......4.......5.......6.......7.......8.......9.....10

1450          KK   FORT1
1451          BA   .0091
1452          PB    2.77
1453          LS       0    98.0
1454          UD    .238
              *

1455          KK   FTNOR
1456          DR   FTNOR
              *

1457          KK   FT-LC
1458          KM   TOTAL FLOW AT INTERSECTION OF FORT APACHE AND LOG CABIN
1459          KM   FLOW ROUTED NORTH IN FORT APACHE
1460          HC       5
              *

1461          KK   RFTLC
1462          KM   DIVERT FLOW SPLIT INTO O'HARE ROAD
1463          DT   OHARE
1464          DI       0     276     697
1465          DQ       0       0      47
              *

1466          KK  R2FTLC
1467          KM   DIVERT FLOW SPLIT INTO LOG CABIN WAY
1468          DT  LOGCAB
1469          DI       0     276     650
1470          DQ       0      73     187
              *

1471          KK   EML2B
1472          BA   .0412
1473          PB    2.77
1474          LS       0    92.0
1475          UD    .120
              *

1476          KK     TP4B
1477          BA   .0036
1478          PB    2.77
1479          LS       0    98.0
1480          UD    .085
              *

1481          KK     EML3
1482          BA   .0575
1483          PB    2.77
1484          LS       0    92.0
1485          UD    .153
              *
1                                        HEC-1 INPUT                                    PAGE 41

              LINE      ID.......1.......2.......3.......4.......5.......6.......7.......8.......9.....10

1486          KK   STRT7
1487          BA   .0039
1488          PB    2.77
1489          LS       0    98.0
1490          UD    .071
              *

1491          KK   DUMMY
1492          HC       5
              *

1493          KK     EML4
1494          BA   .0718
1495          PB    2.77
1496          LS       0    92.0
1497          UD    .153
              *

1498          KK   ENVE2
1499          BA   .0144
1500          PB    2.77
1501          LS       0    77.0
1502          UD    .157
              *

1503          KK   FORT2
1504          BA   .0090
1505          PB    2.77
1506          LS       0    98.0
1507          UD    .253
              *

1508          KK   FT-MO
1509          KM   TOTAL KYLE CANYON DEVELOPMENT DISCHARGE IN FORT APACHE @ MOCCASIN
1510          KM   FLOW ROUTED EAST ADJACENT TO MOCCASIN
1511          HC       4
              *
```

```
1512          KK    OFFC
1513          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1514          BA   .1333
1515          PB    2.79
1516          LS       0    77.4
1517          UD   0.313
              *

1518          KK    95-3
1519          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1520          BA   .0095
1521          PB    2.77
1522          LS       0    89.1
1523          UD   0.095
              *
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9.....10

1524          KK    OFFB
1525          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1526          BA   .1337
1527          PB    2.81
1528          LS       0    77.4
1529          UD   0.392
              *

1530          KK    95-2
1531          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1532          BA   .0044
1533          PB    2.77
1534          LS       0    89.1
1535          UD   0.090
              *

1536          KK   DUMMY
1537          HC       4
              *

1538          KK    OFFA
1539          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1540          BA   .0203
1541          PB    2.77
1542          LS       0    77.4
1543          UD   0.149
              *

1544          KK    95-1
1545          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1546          BA   .0042
1547          PB    2.77
1548          LS       0    89.1
1549          UD   0.069
              *

1550          KK   CP27B
1551          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1552          KM   COMBINE OFFC, 95-3, OFFB, 95-2, OFFA, 95-1
1553          HC       3
              *

1554          KK    OFFZ
1555          BA   .0521
1556          PB    2.77
1557          LS       0    77.0
1558          UD   0.223
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9.....10

1559          KK   COFFZ
1560          KM   COMBINE CP27B, OFFZ
1561          HC       2
              *

1562          KK   OFFDA
1563          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1564          BA   .6430
1565          PB    3.09
1566          LS       0    77.4
1567          UD   0.530
              *

1568          KK  ROFFDA
1569          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1570          KM   STEPS       K X-FACTOR
1571          RM       5   0.400    0.15
              *

1572          KK   OFFDB
1573          KM   REFERENCED FROM GCW MASTER DRAINAGE STUDY
1574          BA   .4948
1575          PB    2.84
1576          LS       0    77.4
1577          UD   0.522
              *

1578          KK   CP27A
1579          KM   COMBINE OFFDA, OFFDB
1580          HC       2
              *

1581          KK   DCKC7
1582          KM   RETRIEVE FLOW THAT CROSSES US-95 IN CCRFCD FACILITY
1583          DR   DCKC7
              *

1584          KK    OFFX
1585          BA   .0177
1586          PB    2.77
1587          LS       0    77.0
1588          UD   0.187
              *

1589          KK    OFFT
1590          BA   .0173
1591          PB    2.77
1592          LS       0    77.0
1593          UD   0.203
              *
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9.....10

1594          KK   EPT16
1595          KM   TOTAL OFFSITE & KC WEST FLOW CONVEYED THRU EAST-SHEEP MOUNTAIN PKWY
1596          KM   COMBINE CP27A, DCKC7, OFFX, OFFT
1597          HC       4
              *

1598          KK  SHEEP2
1599          BA   .0627
```

```
1600            PB    2.77
1601            LS       0    77.0
1602            UD    .218
                *

1603            KK  SHEEP3
1604            BA   .0137
1605            PB    2.77
1606            LS       0    77.0
1607            UD    .198
                *

1608            KK   EMLA2
1609            BA   .1368
1610            PB    2.77
1611            LS       0    92.0
1612            UD    .225
                *

1613            KK   DUMMY
1614            HC       4
                *

1615            KK   ENVE1
1616            BA   .0341
1617            PB    2.77
1618            LS       0    77.0
1619            UD    .210
                *

1620            KK   HUAL3
1621            BA   .0037
1622            PB    2.77
1623            LS       0    98.0
1624            UD    .177
                *

1625            KK   SH-MO
1626            KM   TOTAL KYLE CANYON DEVELOPMENT DISCHARGE IN SHEEP MOUNTAIN PKWY @ MOCCASIN
1627            HC       4
                *
```



```
LINE            ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

1628            KK    CP43
1629            KM   TOTAL KYLE CANYON DEVELOPMENT DISCHARGE IN MOCCASIN REGIONAL ALIGNMENT
1630            KO       1
1631            HC       2
                *

1632            ZZ
```

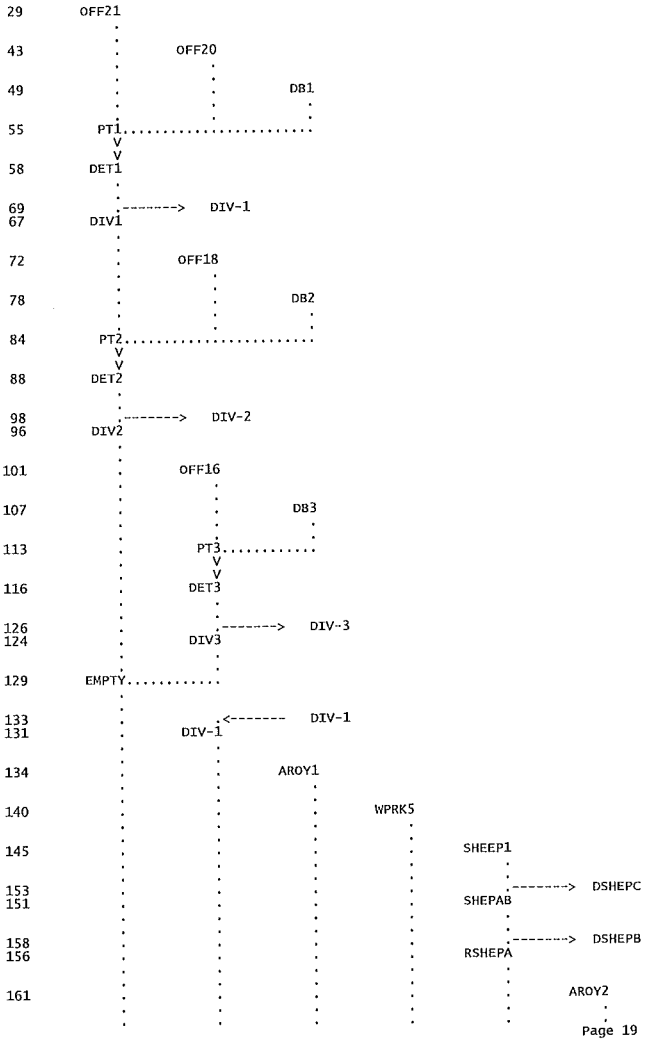
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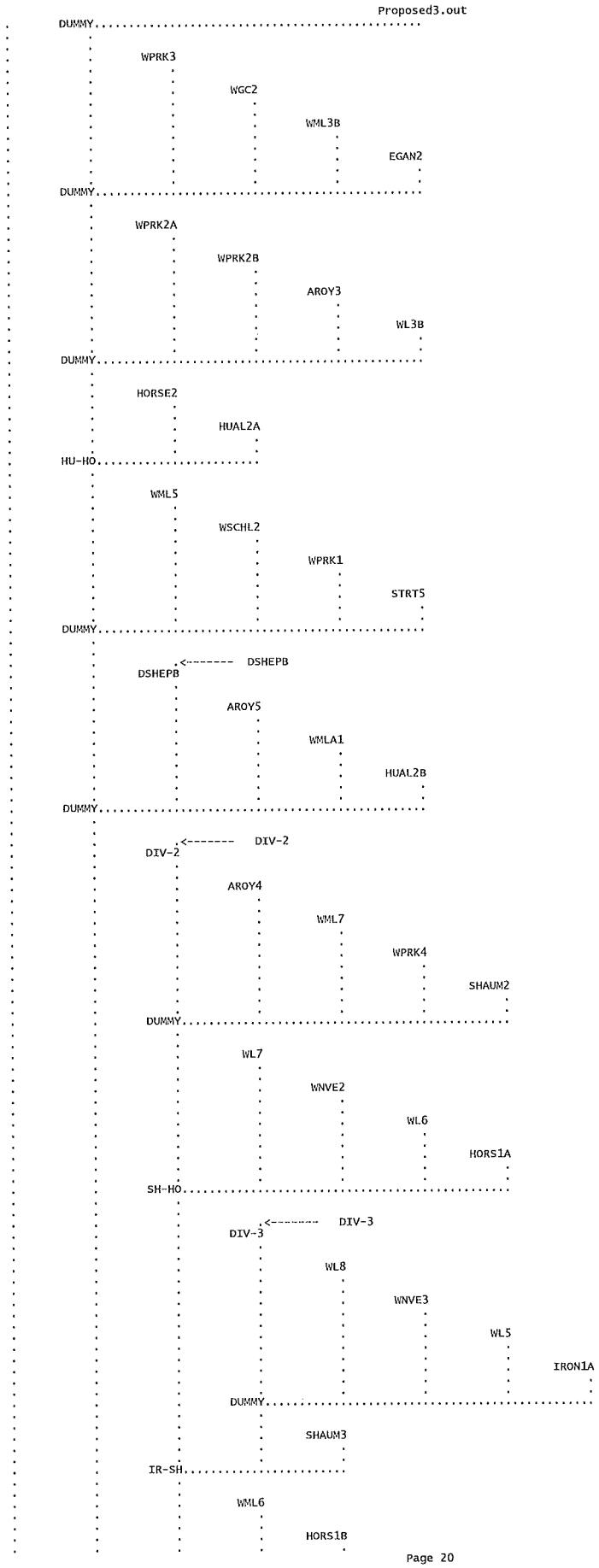
SCHEMATIC DIAGRAM OF STREAM NETWORK

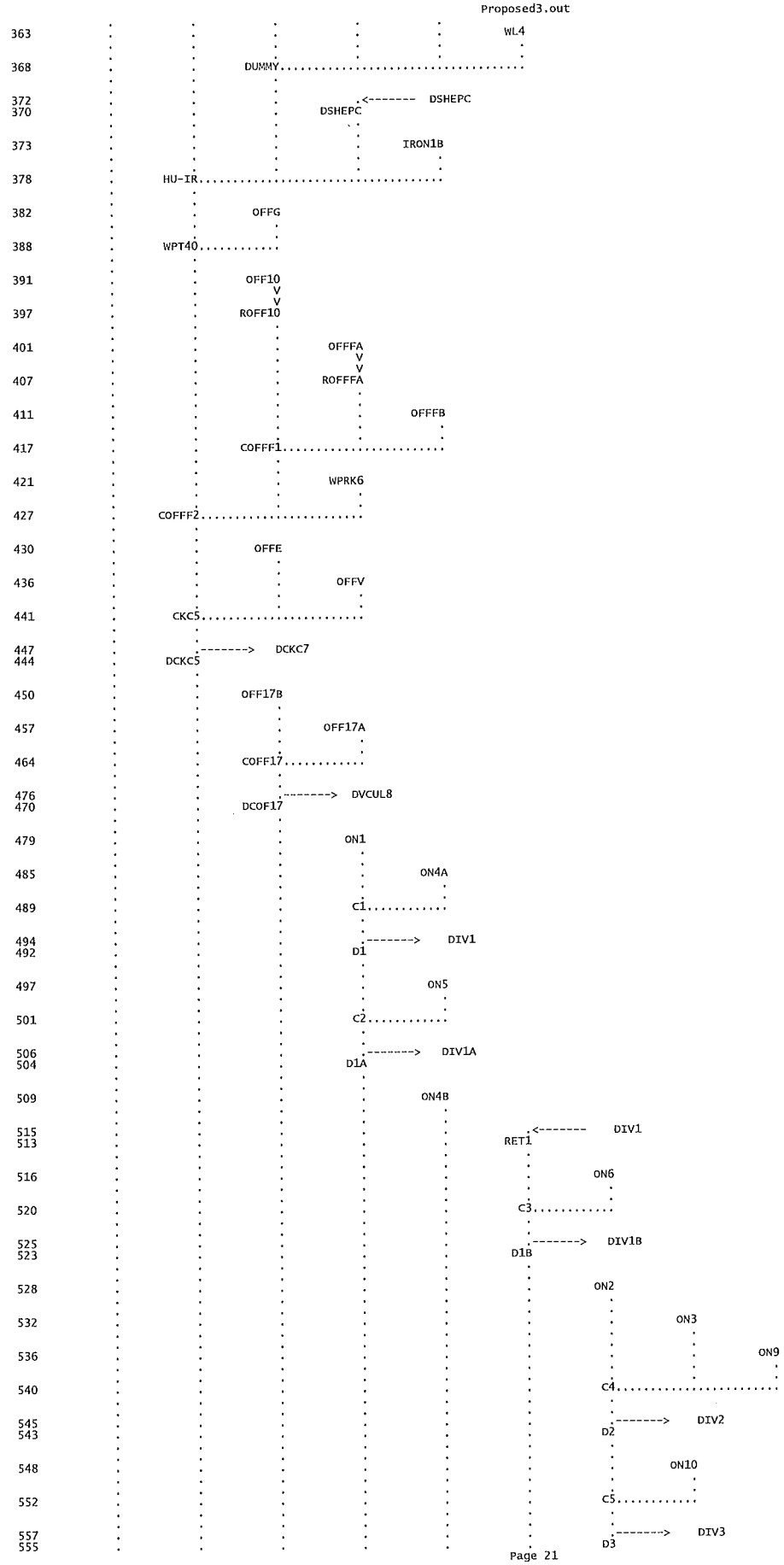
INPUT LINE NO.

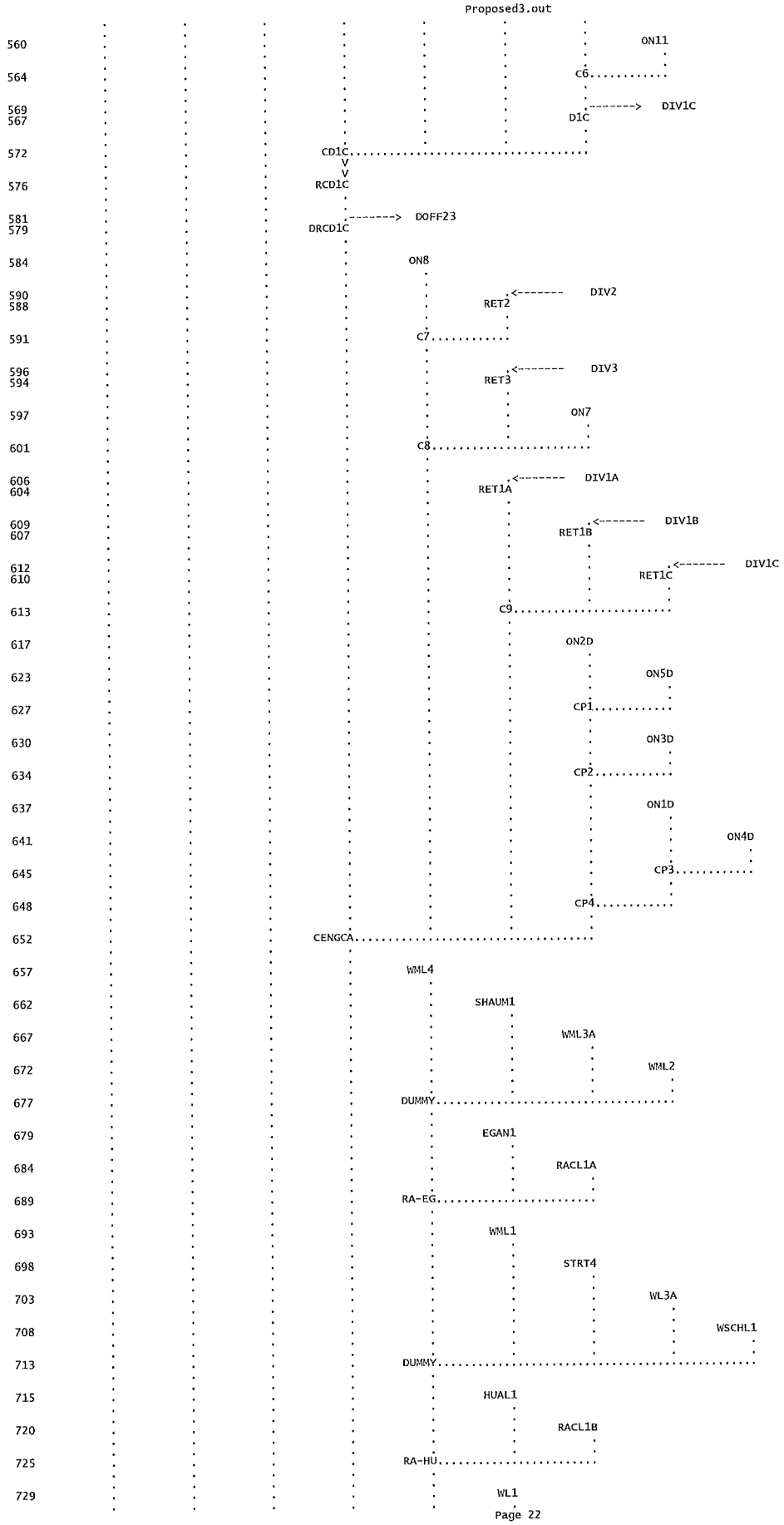
(V) ROUTING (---->) DIVERSION OR PUMP FLOW

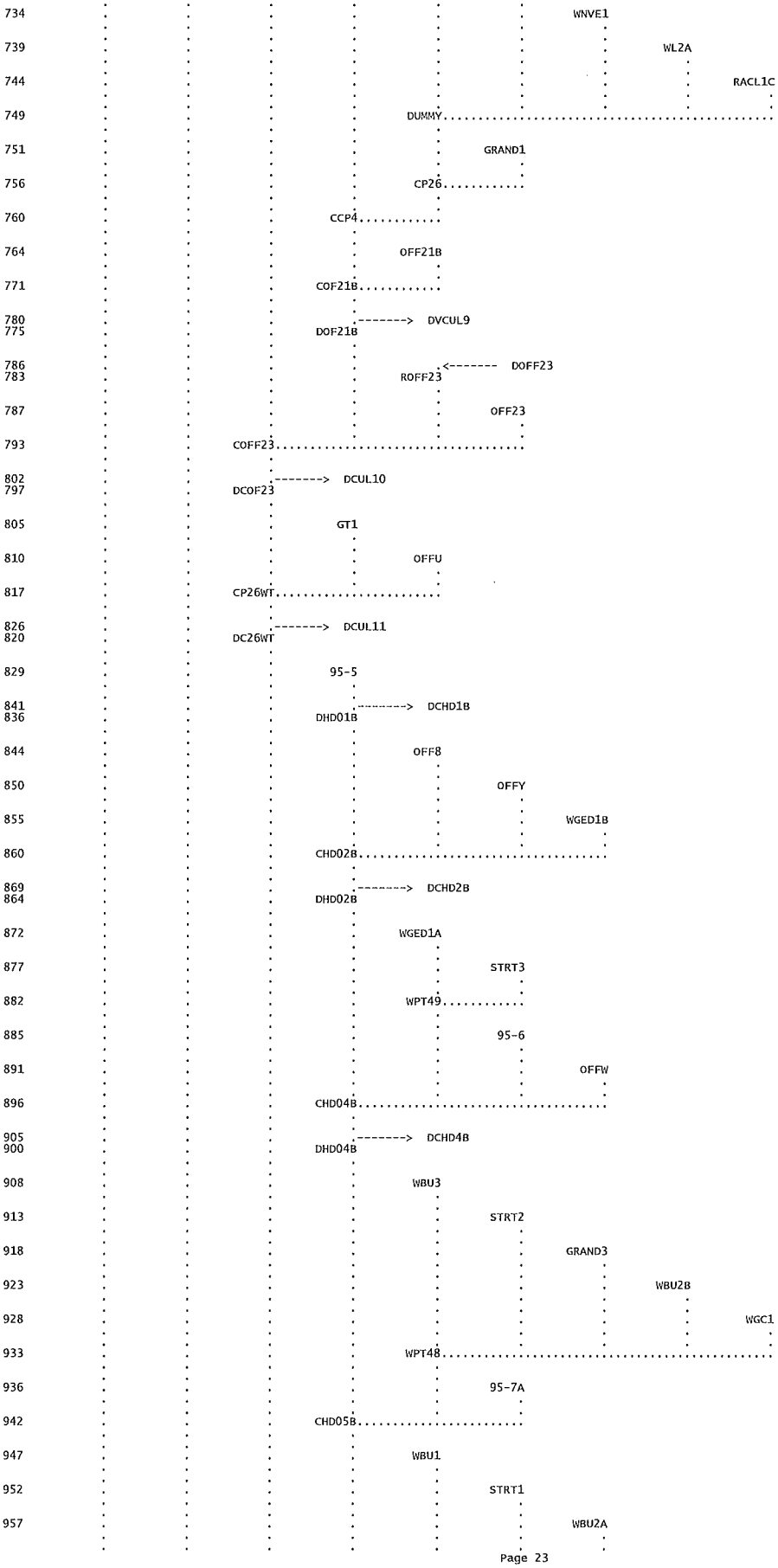
(.) CONNECTOR (<----) RETURN OF DIVERTED OR PUMPED FLOW

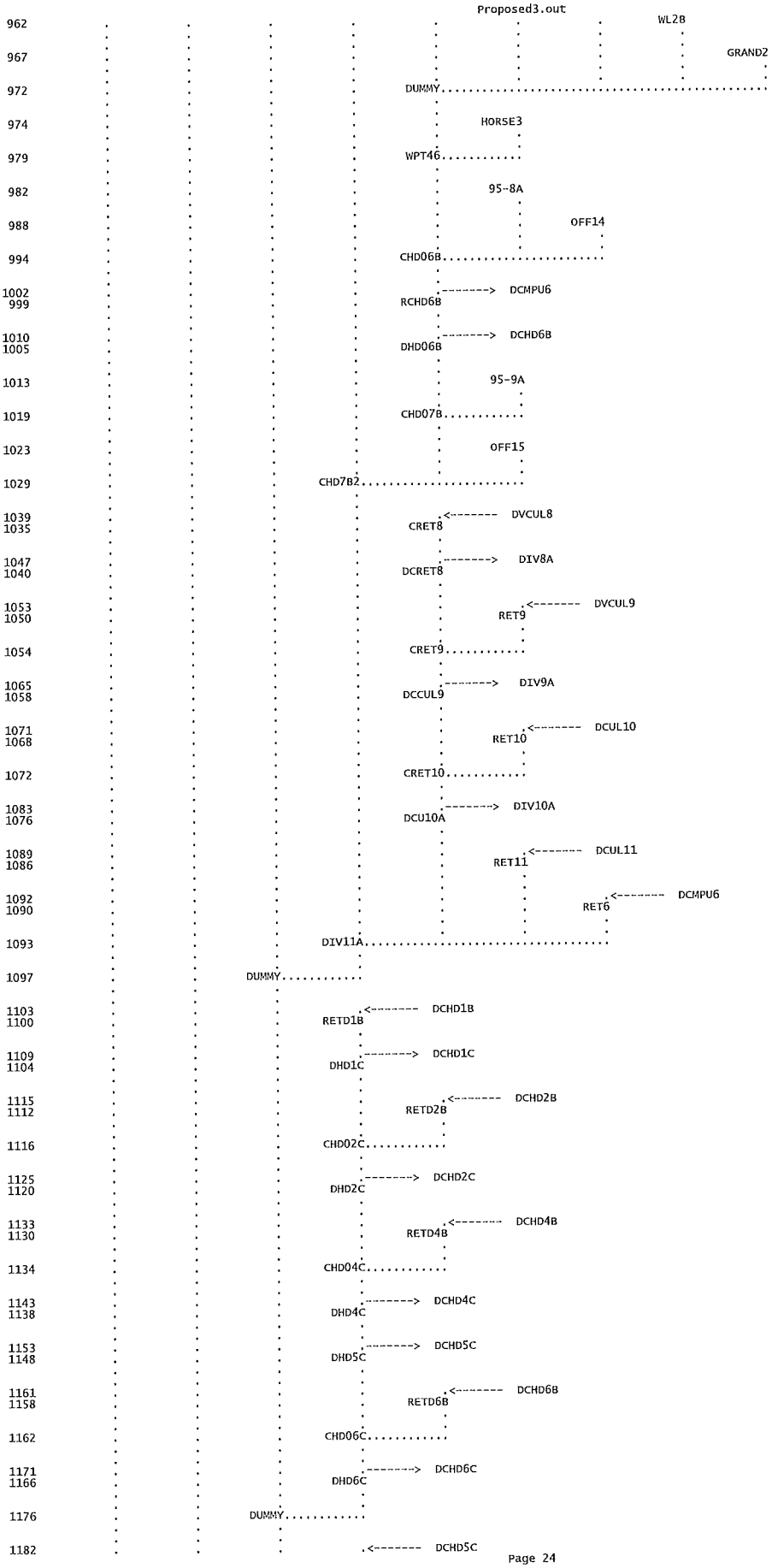


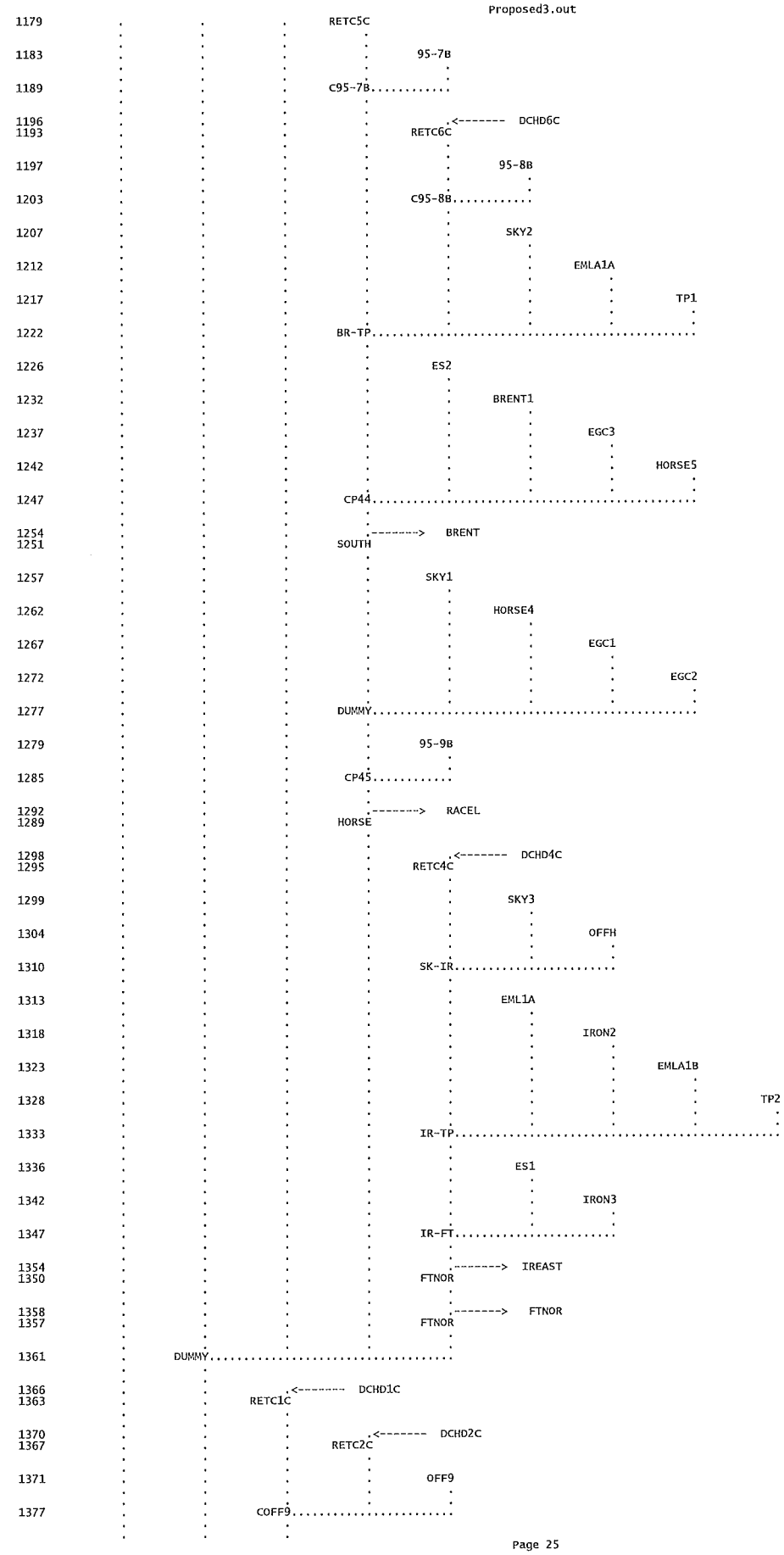

167 DUMMY
169 WPRK3
174 WGC2
179 WML3B
184 EGAN2
189 DUMMY
191 WPRK2A
196 WPRK2B
201 AROY3
206 WL3B
211 DUMMY
213 HORSE2
218 HUAL2A
223 HU-HO
227 WML5
232 WSCHL2
237 WPRK1
242 STRT5
247 DUMMY
251 <-------- DSHEPB
249 DSHEPB
252 AROY5
257 WMLA1
262 HUAL2B
267 DUMMY
271 <------- DIV-2
269 DIV-2
272 AROY4
278 WML7
283 WPRK4
288 SHAUM2
293 DUMMY
295 WL7
300 WNVE2
305 WL6
310 HORS1A
315 SH-HO
321 <-------- DIV-3
319 DIV-3
322 WL8
327 WNVE3
332 WL5
337 IRON1A
342 DUMMY
344 SHAUM3
349 IR-SH
353 WML6
358 HORS1B

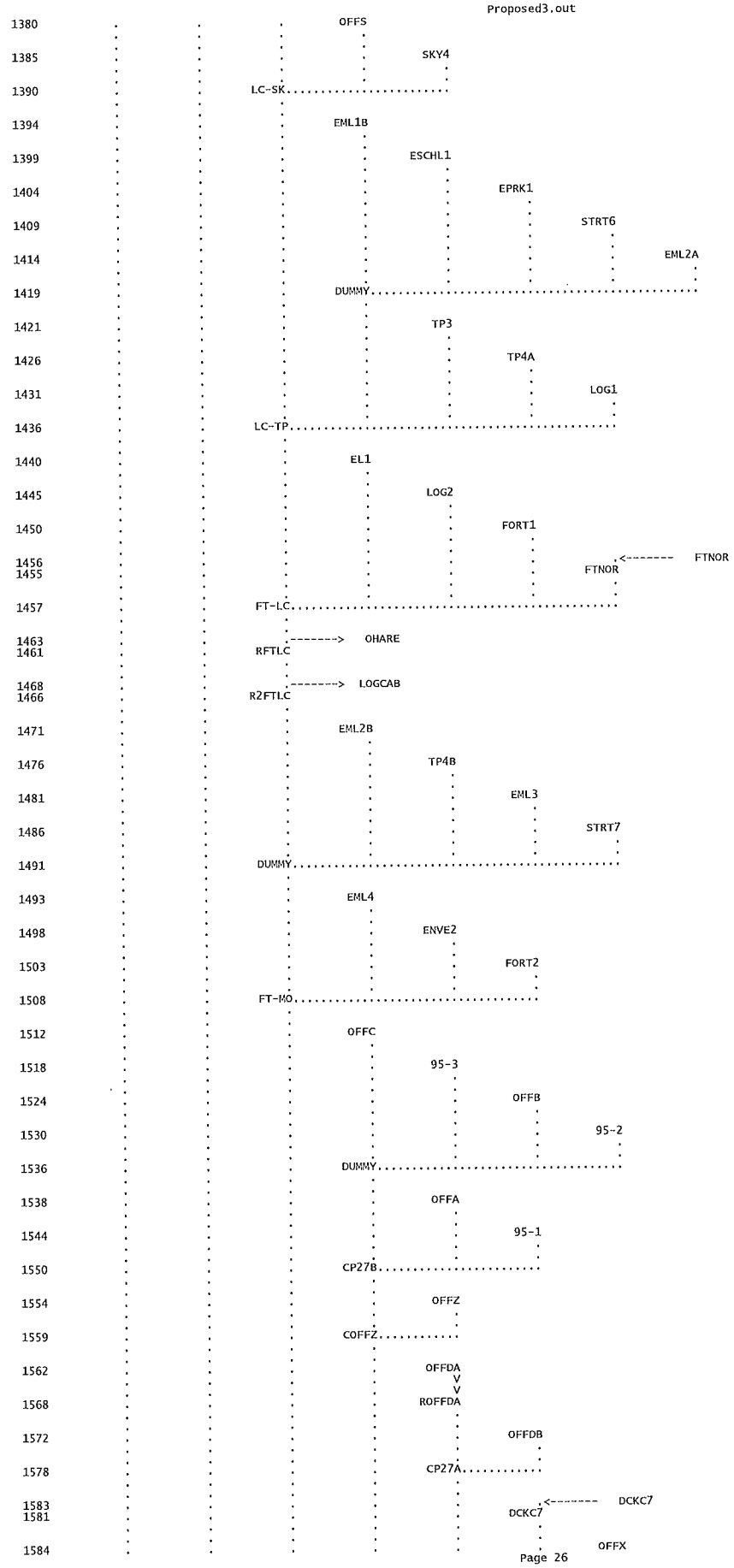

363 WL4
368 DUMMY
372 <------- DSHEPC
370 DSHEPC
373 IRON1B
378 HU-IR
382 OFFG
388 WPT40
391 OFF10
397 ROFF10
401 OFFFA
407 ROFFFA
411 OFFFB
417 COFFF1
421 WPRK6
427 COFFF2
430 OFFE
436 OFFV
441 CKC5
447 -------> DCKC7
444 DCKC5
450 OFF17B
457 OFF17A
464 COFF17
476 -------> DVCUL8
470 DCOF17
479 ON1
485 ON4A
489 C1
494 -------> DIV1
492 D1
497 ON5
501 C2
506 -------> DIV1A
504 D1A
509 ON4B
515 <------- DIV1
513 RET1
516 ON6
520 C3
525 -------> DIV1B
523 D1B
528 ON2
532 ON3
536 ON9
540 C4
545 -------> DIV2
543 D2
548 ON10
552 C5
557 -------> DIV3
555 D3

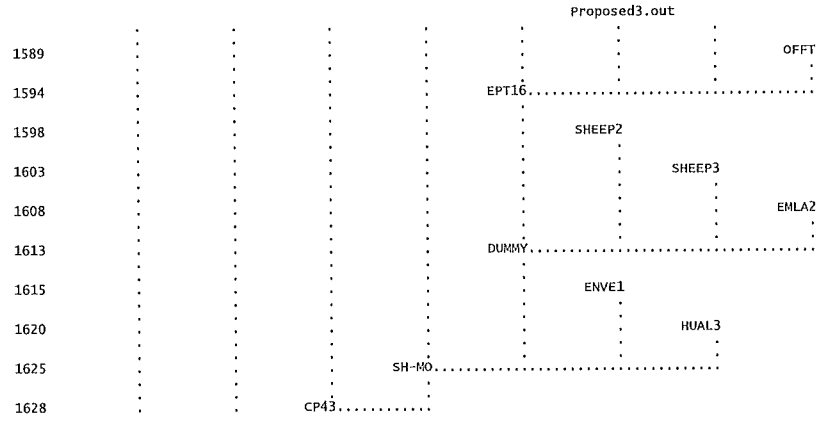

560
ON11
564
C6
569
567
DIV1C
D1C
572
CD1C
576
RCD1C
581
579
DOFF23
DRCD1C
584
ON8
590
588
DIV2
RET2
591
C7
596
594
DIV3
RET3
597
ON7
601
C8
606
604
DIV1A
RET1A
609
607
DIV1B
RET1B
612
610
DIV1C
RET1C
613
C9
617
ON2D
623
ON5D
627
CP1
630
ON3D
634
CP2
637
ON1D
641
ON4D
645
CP3
648
CP4
652
CENGCA
657
WML4
662
SHAUM1
667
WML3A
672
WML2
677
DUMMY
679
EGAN1
684
RACL1A
689
RA-EG
693
WML1
698
STRT4
703
WL3A
708
WSCHL1
713
DUMMY
715
HUAL1
720
RACL1B
725
RA-HU
729
WL1


734 WNVE1
739 WL2A
744 RACL1C
749 DUMMY
751 GRAND1
756 CP26
760 CCP4
764 OFF21B
771 COF21B
780
775 DOF21B
DVCUL9
786
783 ROFF23
DOFF23
787 OFF23
793 COFF23
802
797 DCOF23
DCUL10
805 GT1
810 OFFU
817 CP26WT
826
820 DC26WT
DCUL11
829 95-5
841
836 DHD01B
DCHD1B
844 OFF8
850 OFFY
855 WGED1B
860 CHD02B
869
864 DHD02B
DCHD2B
872 WGED1A
877 STRT3
882 WPT49
885 95-6
891 OFFW
896 CHD04B
905
900 DHD04B
DCHD4B
908 WBU3
913 STRT2
918 GRAND3
923 WBU2B
928 WGC1
933 WPT48
936 95-7A
942 CHD05B
947 WBU1
952 STRT1
957 WBU2A


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967
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1100
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1162
1171
1166
1176
1182
WL2B
GRAND2
DUMMY
HORSE3
WPT46
95-8A
OFF14
CHD06B
RCHD6B
DCMPU6
DHD06B
DCHD6B
95-9A
CHD07B
OFF15
CHD7B2
DVCUL8
CRET8
DCRET8
DIV8A
DVCUL9
RET9
CRET9
DCCUL9
DIV9A
DCUL10
RET10
CRET10
DCU10A
DIV10A
DCUL11
RET11
DCMPU6
RET6
DIV11A
DUMMY
DCHD1B
RETD1B
DHD1C
DCHD1C
DCHD2B
RETD2B
CHD02C
DHD2C
DCHD2C
DCHD4B
RETD4B
CHD04C
DHD4C
DCHD4C
DHD5C
DCHD5C
DCHD6B
RETD6B
CHD06C
DHD6C
DCHD6C
DUMMY
DCHD5C


1179
RETC5C
1183
95-7B
1189
C95-7B
1196
1193
<------- DCHD6C
RETC6C
1197
95-8B
1203
C95-8B
1207
SKY2
1212
EMLA1A
1217
TP1
1222
BR-TP
1226
ES2
1232
BRENT1
1237
EGC3
1242
HORSE5
1247
CP44
1254
1251
--------> BRENT
SOUTH
1257
SKY1
1262
HORSE4
1267
EGC1
1272
EGC2
1277
DUMMY
1279
95-9B
1285
CP45
1292
1289
-------> RACEL
HORSE
1298
1295
<------- DCHD4C
RETC4C
1299
SKY3
1304
OFFH
1310
SK-IR
1313
EML1A
1318
IRON2
1323
EMLA1B
1328
TP2
1333
IR-TP
1336
ES1
1342
IRON3
1347
IR-FT
1354
1350
--------> IREAST
FTNOR
1358
1357
-------> FTNOR
FTNOR
1361
DUMMY
1366
1363
<-------- DCHD1C
RETC1C
1370
1367
<------- DCHD2C
RETC2C
1371
OFF9
1377
COFF9


1380
OFFS
1385
SKY4
1390
LC-SK
1394
EML1B
1399
ESCHL1
1404
EPRK1
1409
STRT6
1414
EML2A
1419
DUMMY
1421
TP3
1426
TP4A
1431
LOG1
1436
LC-TP
1440
EL1
1445
LOG2
1450
FORT1
1456
1455
FTNOR
FTNOR
1457
FT-LC
1463
1461
OHARE
RFTLC
1468
1466
LOGCAB
R2FTLC
1471
EML2B
1476
TP4B
1481
EML3
1486
STRT7
1491
DUMMY
1493
EML4
1498
ENVE2
1503
FORT2
1508
FT-MO
1512
OFFC
1518
95-3
1524
OFFB
1530
95-2
1536
DUMMY
1538
OFFA
1544
95-1
1550
CP27B
1554
OFFZ
1559
COFFZ
1562
OFFDA
1568
ROFFDA
1572
OFFDB
1578
CP27A
1583
1581
DCKC7
DCKC7
1584
OFFX



(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

```
1*****************************************
*                                       *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
*              JUN  1998                *
*            VERSION 4.1                *
*                                       *
*  RUN DATE   05DEC11  TIME  13:11:40   *
*                                       *
*****************************************
```

```
*****************************************
*                                       *
*    U.S. ARMY CORPS OF ENGINEERS       *
*    HYDROLOGIC ENGINEERING CENTER      *
*         609 SECOND STREET             *
*       DAVIS, CALIFORNIA 95616         *
*           (916) 756-1104              *
*                                       *
*****************************************
```

SLATER HANIFAN GROUP
CARWIN ADVISORS
KYLE CANYON
MASTER DRAINAGE STUDY - CLV ADDENDUM #3
PROPOSED DRAINAGE CONDITION

RETURN PERIOD -------- 100 & 10-YEAR
DISTRIBUTION -------- 6-HOUR SDN3
PROJECT NO, --------- WCP0902.003
FILENAME ------------ Proposed3.H1
DATE ---------------- 11/29/11
MODELED BY ---------- SMJ/KCR

SIX HOUR DEPTH-AREA REDUCTION FACTORS

DRAINAGE AREA (MI^2)	DARF
0.0-0.49	1.00
0.5-0.99	0.98
1.0-1.99	0.97
2.0-3.99	0.93
4.0-5.99	0.91
6.0-7.99	0.90
25-YR	0.70
10-YR	0.57

```
 26 IO          OUTPUT CONTROL VARIABLES
                     IPRNT          5  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL          0.  HYDROGRAPH PLOT SCALE

    IT          HYDROGRAPH TIME DATA
                     NMIN           5  MINUTES IN COMPUTATION INTERVAL
                     IDATE      1   0  STARTING DATE
                     ITIME        0000  STARTING TIME
                     NQ            300  NUMBER OF HYDROGRAPH ORDINATES
                     NDDATE     2   0  ENDING DATE
                     NDTIME       0055  ENDING TIME
                     ICENT          19  CENTURY MARK

                   COMPUTATION INTERVAL      .08 HOURS
                       TOTAL TIME BASE    24.92 HOURS

         ENGLISH UNITS
              DRAINAGE AREA         SQUARE MILES
              PRECIPITATION DEPTH   INCHES
              LENGTH, ELEVATION     FEET
              FLOW                  CUBIC FEET PER SECOND
              STORAGE VOLUME        ACRE-FEET
              SURFACE AREA          ACRES
              TEMPERATURE           DEGREES FAHRENHEIT

    JP          MULTI-PLAN OPTION
                     NPLAN          1  NUMBER OF PLANS

    JR          MULTI-RATIO OPTION
                    RATIOS OF PRECIPITATION
                  1.00      .98       .97       .93       .91       .90       .70       .57

*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

            ***************
            *             *
 58 KK      *      DET1   *
            *             *
            ***************

 61 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          1  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL          0.  HYDROGRAPH PLOT SCALE

               HYDROGRAPH ROUTING DATA

 62 RS          STORAGE ROUTING
                     NSTPS          1  NUMBER OF SUBREACHES
                      ITYP       ELEV  TYPE OF INITIAL CONDITION
                     RSVRIC     29.50  INITIAL CONDITION
                          X       .00 WORKING R AND D COEFFICIENT

 63 SA              AREA          .0        .3       3.1       5.2       6.6

 64 SE          ELEVATION       29.50     30.00     32.00     34.00     41.60

 65 SQ          DISCHARGE          0.       24.       85.      127.      158.

 66 SE          ELEVATION       29.50     31.00     34.00     38.00     42.00
                                                                ***
```

COMPUTED STORAGE-ELEVATION DATA

STORAGE	.00	.04	2.91	11.17	56.05
ELEVATION	29.50	30.00	32.00	34.00	41.60

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	.04	.76	2.91	11.17	33.42	56.05	58.72
OUTFLOW	.00	7.87	23.62	44.14	85.18	127.22	155.35	158.48
ELEVATION	29.50	30.00	31.00	32.00	34.00	38.00	41.60	42.00

HYDROGRAPH AT STATION DET1
PLAN 1, RATIO = 1.00

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	29.5	1		0820	101	112.	25.4	36.6	1		1640	201	0.	.0	29.5
1		0005	2	0.	.0	29.5	1		0825	102	111.	24.6	36.4	1		1645	202	0.	.0	29.5
1		0010	3	0.	.0	29.5	1		0830	103	109.	23.9	36.3	1		1650	203	0.	.0	29.5
1		0015	4	0.	.0	29.5	1		0835	104	108.	23.1	36.1	1		1655	204	0.	.0	29.5
1		0020	5	0.	.0	29.5	1		0840	105	106.	22.4	36.0	1		1700	205	0.	.0	29.5
1		0025	6	1.	.0	29.6	1		0845	106	105.	21.7	35.9	1		1705	206	0.	.0	29.5
1		0030	7	2.	.0	29.6	1		0850	107	104.	20.9	35.8	1		1710	207	0.	.0	29.5
1		0035	8	3.	.0	29.7	1		0855	108	102.	20.2	35.6	1		1715	208	0.	.0	29.5
1		0040	9	3.	.0	29.7	1		0900	109	101.	19.5	35.5	1		1720	209	0.	.0	29.5
1		0045	10	4.	.0	29.7	1		0905	110	100.	18.8	35.4	1		1725	210	0.	.0	29.5
1		0050	11	4.	.0	29.7	1		0910	111	98.	18.2	35.3	1		1730	211	0.	.0	29.5
1		0055	12	4.	.0	29.7	1		0915	112	97.	17.5	35.1	1		1735	212	0.	.0	29.5
1		0100	13	3.	.0	29.7	1		0920	113	96.	16.8	35.0	1		1740	213	0.	.0	29.5
1		0105	14	3.	.0	29.7	1		0925	114	95.	16.2	34.9	1		1745	214	0.	.0	29.5
1		0110	15	3.	.0	29.7	1		0930	115	93.	15.5	34.8	1		1750	215	0.	.0	29.5
1		0115	16	3.	.0	29.7	1		0935	116	92.	14.9	34.7	1		1755	216	0.	.0	29.5
1		0120	17	4.	.0	29.7	1		0940	117	91.	14.2	34.6	1		1800	217	0.	.0	29.5
1		0125	18	5.	.0	29.8	1		0945	118	90.	13.6	34.4	1		1805	218	0.	.0	29.5
1		0130	19	7.	.0	29.9	1		0950	119	89.	13.0	34.3	1		1810	219	0.	.0	29.5
1		0135	20	8.	.1	30.0	1		0955	120	88.	12.4	34.2	1		1815	220	0.	.0	29.5
1		0140	21	9.	.1	30.1	1		1000	121	86.	11.8	34.1	1		1820	221	0.	.0	29.5
1		0145	22	11.	.2	30.2	1		1005	122	85.	11.2	34.0	1		1825	222	0.	.0	29.5
1		0150	23	13.	.3	30.3	1		1010	123	83.	10.6	33.9	1		1830	223	0.	.0	29.5
1		0155	24	15.	.4	30.4	1		1015	124	80.	10.1	33.7	1		1835	224	0.	.0	29.5
1		0200	25	17.	.5	30.6	1		1020	125	77.	9.5	33.6	1		1840	225	0.	.0	29.5
1		0205	26	19.	.5	30.7	1		1025	126	74.	9.0	33.5	1		1845	226	0.	.0	29.5
1		0210	27	20.	.6	30.8	1		1030	127	72.	8.5	33.4	1		1850	227	0.	.0	29.5
1		0215	28	21.	.6	30.8	1		1035	128	70.	8.0	33.2	1		1855	228	0.	.0	29.5
1		0220	29	22.	.7	30.9	1		1040	129	67.	7.6	33.1	1		1900	229	0.	.0	29.5
1		0225	30	24.	.8	31.0	1		1045	130	65.	7.1	33.0	1		1905	230	0.	.0	29.5
1		0230	31	25.	.9	31.0	1		1050	131	63.	6.7	32.9	1		1910	231	0.	.0	29.5
1		0235	32	26.	1.0	31.1	1		1055	132	61.	6.2	32.8	1		1915	232	0.	.0	29.5
1		0240	33	27.	1.2	31.2	1		1100	133	59.	5.8	32.7	1		1920	233	0.	.0	29.5
1		0245	34	29.	1.3	31.3	1		1105	134	57.	5.4	32.6	1		1925	234	0.	.0	29.5
1		0250	35	31.	1.5	31.4	1		1110	135	55.	5.0	32.5	1		1930	235	0.	.0	29.5
1		0255	36	33.	1.7	31.4	1		1115	136	53.	4.7	32.4	1		1935	236	0.	.0	29.5
1		0300	37	34.	1.9	31.5	1		1120	137	51.	4.3	32.3	1		1940	237	0.	.0	29.5
1		0305	38	36.	2.1	31.6	1		1125	138	49.	4.0	32.3	1		1945	238	0.	.0	29.5
1		0310	39	38.	2.3	31.7	1		1130	139	48.	3.6	32.2	1		1950	239	0.	.0	29.5
1		0315	40	41.	2.6	31.8	1		1135	140	46.	3.3	32.1	1		1955	240	0.	.0	29.5
1		0320	41	45.	3.1	32.0	1		1140	141	45.	3.0	32.0	1		2000	241	0.	.0	29.5
1		0325	42	50.	4.1	32.3	1		1145	142	42.	2.7	31.9	1		2005	242	0.	.0	29.5
1		0330	43	58.	5.7	32.7	1		1150	143	39.	2.4	31.8	1		2010	243	0.	.0	29.5
1		0335	44	70.	8.1	33.3	1		1155	144	37.	2.2	31.6	1		2015	244	0.	.0	29.5
1		0340	45	86.	11.5	34.1	1		1200	145	35.	1.9	31.5	1		2020	245	0.	.0	29.5
1		0345	46	94.	15.7	34.8	1		1205	146	32.	1.7	31.4	1		2025	246	0.	.0	29.5
1		0350	47	102.	20.3	35.6	1		1210	147	30.	1.5	31.3	1		2030	247	0.	.0	29.5
1		0355	48	111.	25.1	36.5	1		1215	148	28.	1.3	31.2	1		2035	248	0.	.0	29.5
1		0400	49	120.	29.7	37.3	1		1220	149	27.	1.1	31.1	1		2040	249	0.	.0	29.5
1		0405	50	128.	33.7	38.0	1		1225	150	25.	.9	31.1	1		2045	250	0.	.0	29.5
1		0410	51	132.	37.2	38.6	1		1230	151	23.	.7	31.0	1		2050	251	0.	.0	29.5
1		0415	52	135.	40.0	39.0	1		1235	152	20.	.6	30.8	1		2055	252	0.	.0	29.5
1		0420	53	138.	42.1	39.4	1		1240	153	17.	.5	30.6	1		2100	253	0.	.0	29.5
1		0425	54	140.	43.8	39.7	1		1245	154	15.	.3	30.4	1		2105	254	0.	.0	29.5
1		0430	55	142.	45.1	39.9	1		1250	155	12.	.3	30.3	1		2110	255	0.	.0	29.5
1		0435	56	143.	46.1	40.0	1		1255	156	11.	.2	30.2	1		2115	256	0.	.0	29.5
1		0440	57	144.	47.0	40.2	1		1300	157	9.	.1	30.1	1		2120	257	0.	.0	29.5
1		0445	58	145.	47.8	40.3	1		1305	158	8.	.0	30.0	1		2125	258	0.	.0	29.5
1		0450	59	146.	48.5	40.4	1		1310	159	2.	.0	29.6	1		2130	259	0.	.0	29.5
1		0455	60	147.	49.3	40.5	1		1315	160	0.	.0	29.5	1		2135	260	0.	.0	29.5
1		0500	61	148.	50.0	40.6	1		1320	161	0.	.0	29.5	1		2140	261	0.	.0	29.5
1		0505	62	149.	50.8	40.8	1		1325	162	0.	.0	29.5	1		2145	262	0.	.0	29.5
1		0510	63	150.	51.4	40.9	1		1330	163	0.	.0	29.5	1		2150	263	0.	.0	29.5
1		0515	64	150.	51.9	40.9	1		1335	164	0.	.0	29.5	1		2155	264	0.	.0	29.5
1		0520	65	151.	52.2	41.0	1		1340	165	0.	.0	29.5	1		2200	265	0.	.0	29.5
1		0525	66	151.	52.3	41.0	1		1345	166	0.	.0	29.5	1		2205	266	0.	.0	29.5
1		0530	67	151.	52.2	41.0	1		1350	167	0.	.0	29.5	1		2210	267	0.	.0	29.5
1		0535	68	150.	52.0	41.0	1		1355	168	0.	.0	29.5	1		2215	268	0.	.0	29.5
1		0540	69	150.	51.6	40.9	1		1400	169	0.	.0	29.5	1		2220	269	0.	.0	29.5
1		0545	70	149.	51.1	40.8	1		1405	170	0.	.0	29.5	1		2225	270	0.	.0	29.5
1		0550	71	148.	50.5	40.7	1		1410	171	0.	.0	29.5	1		2230	271	0.	.0	29.5
1		0555	72	148.	49.9	40.6	1		1415	172	0.	.0	29.5	1		2235	272	0.	.0	29.5
1		0600	73	147.	49.2	40.5	1		1420	173	0.	.0	29.5	1		2240	273	0.	.0	29.5
1		0605	74	146.	48.5	40.4	1		1425	174	0.	.0	29.5	1		2245	274	0.	.0	29.5
1		0610	75	145.	47.7	40.3	1		1430	175	0.	.0	29.5	1		2250	275	0.	.0	29.5
1		0615	76	144.	46.9	40.1	1		1435	176	0.	.0	29.5	1		2255	276	0.	.0	29.5
1		0620	77	143.	46.1	40.0	1		1440	177	0.	.0	29.5	1		2300	277	0.	.0	29.5
1		0625	78	142.	45.2	39.9	1		1445	178	0.	.0	29.5	1		2305	278	0.	.0	29.5
1		0630	79	141.	44.4	39.7	1		1450	179	0.	.0	29.5	1		2310	279	0.	.0	29.5
1		0635	80	140.	43.5	39.6	1		1455	180	0.	.0	29.5	1		2315	280	0.	.0	29.5
1		0640	81	139.	42.6	39.5	1		1500	181	0.	.0	29.5	1		2320	281	0.	.0	29.5
1		0645	82	138.	41.7	39.3	1		1505	182	0.	.0	29.5	1		2325	282	0.	.0	29.5
1		0650	83	136.	40.8	39.2	1		1510	183	0.	.0	29.5	1		2330	283	0.	.0	29.5
1		0655	84	135.	39.9	39.0	1		1515	184	0.	.0	29.5	1		2335	284	0.	.0	29.5
1		0700	85	134.	39.0	38.9	1		1520	185	0.	.0	29.5	1		2340	285	0.	.0	29.5
1		0705	86	133.	38.1	38.7	1		1525	186	0.	.0	29.5	1		2345	286	0.	.0	29.5
1		0710	87	132.	37.2	38.6	1		1530	187	0.	.0	29.5	1		2350	287	0.	.0	29.5
1		0715	88	131.	36.3	38.5	1		1535	188	0.	.0	29.5	1		2355	288	0.	.0	29.5
1		0720	89	130.	35.4	38.3	1		1540	189	0.	.0	29.5	2		0000	289	0.	.0	29.5
1		0725	90	129.	34.5	38.2	1		1545	190	0.	.0	29.5	2		0005	290	0.	.0	29.5
1		0730	91	127.	33.6	38.0	1		1550	191	0.	.0	29.5	2		0010	291	0.	.0	29.5
1		0735	92	126.	32.8	37.9	1		1555	192	0.	.0	29.5	2		0015	292	0.	.0	29.5
1		0740	93	124.	31.9	37.7	1		1600	193	0.	.0	29.5	2		0020	293	0.	.0	29.5
1		0745	94	123.	31.0	37.6	1		1605	194	0.	.0	29.5	2		0025	294	0.	.0	29.5
1		0750	95	121.	30.2	37.4	1		1610	195	0.	.0	29.5	2		0030	295	0.	.0	29.5
1		0755	96	120.	29.4	37.3	1		1615	196	0.	.0	29.5	2		0035	296	0.	.0	29.5
1		0800	97	118.	28.6	37.1	1		1620	197	0.	.0	29.5	2		0040	297	0.	.0	29.5
1		0805	98	117.	27.8	37.0	1		1625	198	0.	.0	29.5	2		0045	298	0.	.0	29.5
1		0810	99	115.	27.0	36.8	1		1630	199	0.	.0	29.5	2		0050	299	0.	.0	29.5
1		0815	100	114.	26.2	36.7	1		1635	200	0.	.0	29.5	2		0055	300	0.	.0	29.5

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)	(CFS)				
151.	5.42		127.	42.	40.	40.
		(INCHES)	1.334	1.753	1.753	1.753
		(AC-FT)	63.	83.	83.	83.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
(AC-FT)	(HR)				
52.	5.42	36.	10.	9.	9.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
41.00	5.42	38.28	32.26	32.16	32.16

CUMULATIVE AREA = .89 SQ MI

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HYDROGRAPH AT STATION DET1
PLAN 1, RATIO = .98

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DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	29.5	1		0820	101	109.	24.0	36.3	1		1640	201	0.	.0	29.5
1		0005	2	0.	.0	29.5	1		0825	102	108.	23.2	36.2	1		1645	202	0.	.0	29.5
1		0010	3	0.	.0	29.5	1		0830	103	107.	22.5	36.0	1		1650	203	0.	.0	29.5
1		0015	4	0.	.0	29.5	1		0835	104	105.	21.7	35.9	1		1655	204	0.	.0	29.5
1		0020	5	0.	.0	29.5	1		0840	105	104.	21.0	35.8	1		1700	205	0.	.0	29.5
1		0025	6	1.	.0	29.6	1		0845	106	102.	20.3	35.6	1		1705	206	0.	.0	29.5
1		0030	7	2.	.0	29.6	1		0850	107	101.	19.6	35.5	1		1710	207	0.	.0	29.5
1		0035	8	3.	.0	29.7	1		0855	108	100.	18.9	35.4	1		1715	208	0.	.0	29.5
1		0040	9	3.	.0	29.7	1		0900	109	99.	18.2	35.3	1		1720	209	0.	.0	29.5
1		0045	10	3.	.0	29.7	1		0905	110	97.	17.6	35.2	1		1725	210	0.	.0	29.5
1		0050	11	3.	.0	29.7	1		0910	111	96.	16.9	35.0	1		1730	211	0.	.0	29.5
1		0055	12	3.	.0	29.7	1		0915	112	95.	16.2	34.9	1		1735	212	0.	.0	29.5
1		0100	13	3.	.0	29.7	1		0920	113	94.	15.6	34.8	1		1740	213	0.	.0	29.5
1		0105	14	2.	.0	29.7	1		0925	114	92.	15.0	34.7	1		1745	214	0.	.0	29.5
1		0110	15	2.	.0	29.6	1		0930	115	91.	14.3	34.6	1		1750	215	0.	.0	29.5
1		0115	16	3.	.0	29.7	1		0935	116	90.	13.7	34.5	1		1755	216	0.	.0	29.5
1		0120	17	3.	.0	29.7	1		0940	117	89.	13.1	34.3	1		1800	217	0.	.0	29.5
1		0125	18	4.	.0	29.8	1		0945	118	88.	12.5	34.2	1		1805	218	0.	.0	29.5
1		0130	19	6.	.0	29.9	1		0950	119	87.	11.9	34.1	1		1810	219	0.	.0	29.5
1		0135	20	8.	.1	30.0	1		0955	120	85.	11.3	34.0	1		1815	220	0.	.0	29.5
1		0140	21	9.	.1	30.1	1		1000	121	83.	10.7	33.9	1		1820	221	0.	.0	29.5
1		0145	22	10.	.2	30.2	1		1005	122	80.	10.1	33.8	1		1825	222	0.	.0	29.5
1		0150	23	12.	.2	30.3	1		1010	123	77.	9.6	33.6	1		1830	223	0.	.0	29.5
1		0155	24	14.	.3	30.4	1		1015	124	75.	9.1	33.5	1		1835	224	0.	.0	29.5
1		0200	25	16.	.4	30.5	1		1020	125	72.	8.6	33.4	1		1840	225	0.	.0	29.5
1		0205	26	18.	.5	30.6	1		1025	126	70.	8.1	33.3	1		1845	226	0.	.0	29.5
1		0210	27	19.	.5	30.7	1		1030	127	67.	7.6	33.1	1		1850	227	0.	.0	29.5
1		0215	28	20.	.6	30.8	1		1035	128	65.	7.2	33.0	1		1855	228	0.	.0	29.5
1		0220	29	21.	.6	30.8	1		1040	129	63.	6.7	32.9	1		1900	229	0.	.0	29.5
1		0225	30	22.	.7	30.9	1		1045	130	61.	6.3	32.8	1		1905	230	0.	.0	29.5
1		0230	31	24.	.8	31.0	1		1050	131	59.	5.9	32.7	1		1910	231	0.	.0	29.5
1		0235	32	25.	.9	31.1	1		1055	132	57.	5.5	32.6	1		1915	232	0.	.0	29.5
1		0240	33	27.	1.1	31.1	1		1100	133	55.	5.1	32.5	1		1920	233	0.	.0	29.5
1		0245	34	28.	1.2	31.2	1		1105	134	53.	4.7	32.4	1		1925	234	0.	.0	29.5
1		0250	35	30.	1.4	31.3	1		1110	135	51.	4.4	32.3	1		1930	235	0.	.0	29.5
1		0255	36	31.	1.6	31.4	1		1115	136	50.	4.0	32.3	1		1935	236	0.	.0	29.5
1		0300	37	33.	1.7	31.5	1		1120	137	48.	3.7	32.2	1		1940	237	0.	.0	29.5
1		0305	38	35.	1.9	31.5	1		1125	138	46.	3.3	32.1	1		1945	238	0.	.0	29.5
1		0310	39	37.	2.1	31.6	1		1130	139	45.	3.0	32.0	1		1950	239	0.	.0	29.5
1		0315	40	39.	2.4	31.8	1		1135	140	42.	2.7	31.9	1		1955	240	0.	.0	29.5
1		0320	41	44.	2.9	32.0	1		1140	141	40.	2.5	31.8	1		2000	241	0.	.0	29.5
1		0325	42	49.	3.8	32.2	1		1145	142	37.	2.2	31.7	1		2005	242	0.	.0	29.5
1		0330	43	57.	5.4	32.6	1		1150	143	35.	1.9	31.5	1		2010	243	0.	.0	29.5
1		0335	44	68.	7.8	33.2	1		1155	144	33.	1.7	31.4	1		2015	244	0.	.0	29.5
1		0340	45	85.	11.0	34.0	1		1200	145	31.	1.5	31.3	1		2020	245	0.	.0	29.5
1		0345	46	93.	15.0	34.7	1		1205	146	29.	1.3	31.2	1		2025	246	0.	.0	29.5
1		0350	47	101.	19.6	35.5	1		1210	147	27.	1.1	31.2	1		2030	247	0.	.0	29.5
1		0355	48	110.	24.2	36.3	1		1215	148	25.	.9	31.1	1		2035	248	0.	.0	29.5
1		0400	49	118.	28.6	37.1	1		1220	149	23.	.7	31.0	1		2040	249	0.	.0	29.5
1		0405	50	126.	32.5	37.8	1		1225	150	20.	.6	30.8	1		2045	250	0.	.0	29.5
1		0410	51	130.	35.9	38.4	1		1230	151	17.	.5	30.6	1		2050	251	0.	.0	29.5
1		0415	52	134.	38.6	38.8	1		1235	152	15.	.4	30.4	1		2055	252	0.	.0	29.5
1		0420	53	136.	40.7	39.2	1		1240	153	13.	.3	30.3	1		2100	253	0.	.0	29.5
1		0425	54	138.	42.3	39.4	1		1245	154	11.	.2	30.2	1		2105	254	0.	.0	29.5
1		0430	55	140.	43.6	39.6	1		1250	155	9.	.1	30.1	1		2110	255	0.	.0	29.5
1		0435	56	141.	44.5	39.8	1		1255	156	8.	.1	30.0	1		2115	256	0.	.0	29.5
1		0440	57	142.	45.4	39.9	1		1300	157	3.	.0	29.7	1		2120	257	0.	.0	29.5
1		0445	58	143.	46.1	40.0	1		1305	158	1.	.0	29.5	1		2125	258	0.	.0	29.5
1		0450	59	144.	46.8	40.1	1		1310	159	0.	.0	29.5	1		2130	259	0.	.0	29.5
1		0455	60	145.	47.5	40.2	1		1315	160	0.	.0	29.5	1		2135	260	0.	.0	29.5
1		0500	61	146.	48.3	40.4	1		1320	161	0.	.0	29.5	1		2140	261	0.	.0	29.5
1		0505	62	147.	49.0	40.5	1		1325	162	0.	.0	29.5	1		2145	262	0.	.0	29.5
1		0510	63	147.	49.5	40.6	1		1330	163	0.	.0	29.5	1		2150	263	0.	.0	29.5
1		0515	64	148.	50.0	40.6	1		1335	164	0.	.0	29.5	1		2155	264	0.	.0	29.5
1		0520	65	148.	50.3	40.7	1		1340	165	0.	.0	29.5	1		2200	265	0.	.0	29.5
1		0525	66	148.	50.4	40.7	1		1345	166	0.	.0	29.5	1		2205	266	0.	.0	29.5
1		0530	67	148.	50.3	40.7	1		1350	167	0.	.0	29.5	1		2210	267	0.	.0	29.5
1		0535	68	148.	50.1	40.7	1		1355	168	0.	.0	29.5	1		2215	268	0.	.0	29.5
1		0540	69	147.	49.7	40.6	1		1400	169	0.	.0	29.5	1		2220	269	0.	.0	29.5
1		0545	70	147.	49.2	40.5	1		1405	170	0.	.0	29.5	1		2225	270	0.	.0	29.5
1		0550	71	146.	48.6	40.4	1		1410	171	0.	.0	29.5	1		2230	271	0.	.0	29.5
1		0555	72	145.	48.0	40.3	1		1415	172	0.	.0	29.5	1		2235	272	0.	.0	29.5
1		0600	73	145.	47.3	40.2	1		1420	173	0.	.0	29.5	1		2240	273	0.	.0	29.5
1		0605	74	144.	46.6	40.1	1		1425	174	0.	.0	29.5	1		2245	274	0.	.0	29.5
1		0610	75	143.	45.8	40.0	1		1430	175	0.	.0	29.5	1		2250	275	0.	.0	29.5
1		0615	76	142.	45.1	39.9	1		1435	176	0.	.0	29.5	1		2255	276	0.	.0	29.5
1		0620	77	141.	44.3	39.7	1		1440	177	0.	.0	29.5	1		2300	277	0.	.0	29.5
1		0625	78	140.	43.4	39.6	1		1445	178	0.	.0	29.5	1		2305	278	0.	.0	29.5
1		0630	79	139.	42.6	39.5	1		1450	179	0.	.0	29.5	1		2310	279	0.	.0	29.5
1		0635	80	138.	41.7	39.3	1		1455	180	0.	.0	29.5	1		2315	280	0.	.0	29.5
1		0640	81	136.	40.8	39.2	1		1500	181	0.	.0	29.5	1		2320	281	0.	.0	29.5
1		0645	82	135.	39.9	39.0	1		1505	182	0.	.0	29.5	1		2325	282	0.	.0	29.5
1		0650	83	134.	39.1	38.9	1		1510	183	0.	.0	29.5	1		2330	283	0.	.0	29.5
1		0655	84	133.	38.2	38.8	1		1515	184	0.	.0	29.5	1		2335	284	0.	.0	29.5
1		0700	85	132.	37.3	38.6	1		1520	185	0.	.0	29.5	1		2340	285	0.	.0	29.5
1		0705	86	131.	36.4	38.5	1		1525	186	0.	.0	29.5	1		2345	286	0.	.0	29.5
1		0710	87	130.	35.5	38.3	1		1530	187	0.	.0	29.5	1		2350	287	0.	.0	29.5
1		0715	88	129.	34.6	38.2	1		1535	188	0.	.0	29.5	1		2355	288	0.	.0	29.5
1		0720	89	128.	33.7	38.0	1		1540	189	0.	.0	29.5	2		0000	289	0.	.0	29.5
1		0725	90	126.	32.9	37.9	1		1545	190	0.	.0	29.5	2		0005	290	0.	.0	29.5
1		0730	91	125.	32.0	37.7	1		1550	191	0.	.0	29.5	2		0010	291	0.	.0	29.5
1		0735	92	123.	31.1	37.6	1		1555	192	0.	.0	29.5	2		0015	292	0.	.0	29.5
1		0740	93	121.	30.3	37.4	1		1600	193	0.	.0	29.5	2		0020	293	0.	.0	29.5
1		0745	94	120.	29.5	37.3	1		1605	194	0.	.0	29.5	2		0025	294	0.	.0	29.5
1		0750	95	118.	28.7	37.1	1		1610	195	0.	.0	29.5	2		0030	295	0.	.0	29.5
1		0755	96	117.	27.9	37.0	1		1615	196	0.	.0	29.5	2		0035	296	0.	.0	29.5
1		0800	97	115.	27.1	36.9	1		1620	197	0.	.0	29.5	2		0040	297	0.	.0	29.5
1		0805	98	114.	26.3	36.7	1		1625	198	0.	.0	29.5	2		0045	298	0.	.0	29.5
1		0810	99	112.	25.5	36.6	1		1630	199	0.	.0	29.5	2		0050	299	0.	.0	29.5
1		0815	100	111.	24.7	36.4	1		1635	200	0.	.0	29.5	2		0055	300	0.	.0	29.5

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)	(CFS)				
+ 148.	5.42		125.	41.	39.	39.
		(INCHES)	1.310	1.700	1.700	1.700
		(AC-FT)	62.	80.	80.	80.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
50.	5.42	34.	9.	9.	9.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
40.70	5.42	38.02	32.16	32.06	32.06

CUMULATIVE AREA = .89 SQ MI

HYDROGRAPH AT STATION DET1
PLAN 1, RATIO = .97

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	29.5	1		0820	101	108.	23.3	36.2	1		1640	201	0.	.0	29.5
1		0005	2	0.	.0	29.5	1		0825	102	107.	22.5	36.0	1		1645	202	0.	.0	29.5
1		0010	3	0.	.0	29.5	1		0830	103	105.	21.8	35.9	1		1650	203	0.	.0	29.5
1		0015	4	0.	.0	29.5	1		0835	104	104.	21.1	35.8	1		1655	204	0.	.0	29.5
1		0020	5	0.	.0	29.5	1		0840	105	103.	20.4	35.7	1		1700	205	0.	.0	29.5
1		0025	6	1.	.0	29.6	1		0845	106	101.	19.7	35.5	1		1705	206	0.	.0	29.5
1		0030	7	2.	.0	29.6	1		0850	107	100.	19.0	35.4	1		1710	207	0.	.0	29.5
1		0035	8	2.	.0	29.7	1		0855	108	99.	18.3	35.3	1		1715	208	0.	.0	29.5
1		0040	9	3.	.0	29.7	1		0900	109	97.	17.6	35.2	1		1720	209	0.	.0	29.5
1		0045	10	3.	.0	29.7	1		0905	110	96.	16.9	35.0	1		1725	210	0.	.0	29.5
1		0050	11	3.	.0	29.7	1		0910	111	95.	16.3	34.9	1		1730	211	0.	.0	29.5
1		0055	12	3.	.0	29.7	1		0915	112	94.	15.6	34.8	1		1735	212	0.	.0	29.5
1		0100	13	2.	.0	29.7	1		0920	113	92.	15.0	34.7	1		1740	213	0.	.0	29.5
1		0105	14	2.	.0	29.6	1		0925	114	91.	14.4	34.6	1		1745	214	0.	.0	29.5
1		0110	15	2.	.0	29.6	1		0930	115	90.	13.7	34.5	1		1750	215	0.	.0	29.5
1		0115	16	2.	.0	29.6	1		0935	116	89.	13.1	34.4	1		1755	216	0.	.0	29.5
1		0120	17	3.	.0	29.7	1		0940	117	88.	12.5	34.2	1		1800	217	0.	.0	29.5
1		0125	18	4.	.0	29.7	1		0945	118	87.	11.9	34.1	1		1805	218	0.	.0	29.5
1		0130	19	6.	.0	29.9	1		0950	119	85.	11.3	34.0	1		1810	219	0.	.0	29.5
1		0135	20	8.	.0	30.0	1		0955	120	83.	10.7	33.9	1		1815	220	0.	.0	29.5
1		0140	21	9.	.1	30.1	1		1000	121	80.	10.2	33.8	1		1820	221	0.	.0	29.5
1		0145	22	10.	.1	30.1	1		1005	122	78.	9.6	33.6	1		1825	222	0.	.0	29.5
1		0150	23	12.	.2	30.2	1		1010	123	75.	9.1	33.5	1		1830	223	0.	.0	29.5
1		0155	24	14.	.3	30.4	1		1015	124	72.	8.6	33.4	1		1835	224	0.	.0	29.5
1		0200	25	16.	.4	30.5	1		1020	125	70.	8.1	33.3	1		1840	225	0.	.0	29.5
1		0205	26	17.	.5	30.6	1		1025	126	68.	7.6	33.1	1		1845	226	0.	.0	29.5
1		0210	27	18.	.5	30.7	1		1030	127	65.	7.2	33.0	1		1850	227	0.	.0	29.5
1		0215	28	19.	.6	30.7	1		1035	128	63.	6.7	32.9	1		1855	228	0.	.0	29.5
1		0220	29	20.	.6	30.8	1		1040	129	61.	6.3	32.8	1		1900	229	0.	.0	29.5
1		0225	30	22.	.7	30.9	1		1045	130	59.	5.9	32.7	1		1905	230	0.	.0	29.5
1		0230	31	24.	.8	31.0	1		1050	131	57.	5.5	32.6	1		1910	231	0.	.0	29.5
1		0235	32	25.	.9	31.1	1		1055	132	55.	5.1	32.5	1		1915	232	0.	.0	29.5
1		0240	33	26.	1.0	31.1	1		1100	133	53.	4.7	32.4	1		1920	233	0.	.0	29.5
1		0245	34	28.	1.2	31.2	1		1105	134	51.	4.4	32.4	1		1925	234	0.	.0	29.5
1		0250	35	29.	1.3	31.3	1		1110	135	50.	4.0	32.3	1		1930	235	0.	.0	29.5
1		0255	36	31.	1.5	31.4	1		1115	136	48.	3.7	32.2	1		1935	236	0.	.0	29.5
1		0300	37	32.	1.7	31.4	1		1120	137	46.	3.4	32.1	1		1940	237	0.	.0	29.5
1		0305	38	34.	1.8	31.5	1		1125	138	45.	3.1	32.0	1		1945	238	0.	.0	29.5
1		0310	39	36.	2.0	31.6	1		1130	139	43.	2.8	31.9	1		1950	239	0.	.0	29.5
1		0315	40	39.	2.3	31.7	1		1135	140	40.	2.5	31.8	1		1955	240	0.	.0	29.5
1		0320	41	43.	2.8	32.0	1		1140	141	37.	2.2	31.7	1		2000	241	0.	.0	29.5
1		0325	42	48.	3.7	32.2	1		1145	142	35.	2.0	31.6	1		2005	242	0.	.0	29.5
1		0330	43	56.	5.3	32.6	1		1150	143	33.	1.7	31.4	1		2010	243	0.	.0	29.5
1		0335	44	67.	7.6	33.1	1		1155	144	31.	1.5	31.3	1		2015	244	0.	.0	29.5
1		0340	45	83.	10.8	33.9	1		1200	145	29.	1.3	31.2	1		2020	245	0.	.0	29.5
1		0345	46	92.	14.7	34.6	1		1205	146	27.	1.1	31.2	1		2025	246	0.	.0	29.5
1		0350	47	100.	19.2	35.4	1		1210	147	25.	.9	31.1	1		2030	247	0.	.0	29.5
1		0355	48	109.	23.7	36.3	1		1215	148	24.	.8	31.0	1		2035	248	0.	.0	29.5
1		0400	49	117.	28.1	37.0	1		1220	149	20.	.6	30.8	1		2040	249	0.	.0	29.5
1		0405	50	124.	31.9	37.7	1		1225	150	17.	.5	30.6	1		2045	250	0.	.0	29.5
1		0410	51	129.	35.2	38.3	1		1230	151	15.	.4	30.4	1		2050	251	0.	.0	29.5
1		0415	52	133.	37.9	38.7	1		1235	152	13.	.3	30.3	1		2055	252	0.	.0	29.5
1		0420	53	135.	40.0	39.0	1		1240	153	11.	.2	30.2	1		2100	253	0.	.0	29.5
1		0425	54	137.	41.6	39.3	1		1245	154	9.	.1	30.1	1		2105	254	0.	.0	29.5
1		0430	55	139.	42.8	39.5	1		1250	155	8.	.1	30.0	1		2110	255	0.	.0	29.5
1		0435	56	140.	43.7	39.6	1		1255	156	3.	.0	29.7	1		2115	256	0.	.0	29.5
1		0440	57	141.	44.5	39.8	1		1300	157	1.	.0	29.5	1		2120	257	0.	.0	29.5
1		0445	58	142.	45.3	39.9	1		1305	158	0.	.0	29.5	1		2125	258	0.	.0	29.5
1		0450	59	143.	46.0	40.0	1		1310	159	0.	.0	29.5	1		2130	259	0.	.0	29.5
1		0455	60	144.	46.7	40.1	1		1315	160	0.	.0	29.5	1		2135	260	0.	.0	29.5
1		0500	61	145.	47.4	40.2	1		1320	161	0.	.0	29.5	1		2140	261	0.	.0	29.5
1		0505	62	145.	48.1	40.3	1		1325	162	0.	.0	29.5	1		2145	262	0.	.0	29.5
1		0510	63	146.	48.6	40.4	1		1330	163	0.	.0	29.5	1		2150	263	0.	.0	29.5
1		0515	64	147.	49.1	40.5	1		1335	164	0.	.0	29.5	1		2155	264	0.	.0	29.5
1		0520	65	147.	49.4	40.5	1		1340	165	0.	.0	29.5	1		2200	265	0.	.0	29.5
1		0525	66	147.	49.5	40.6	1		1345	166	0.	.0	29.5	1		2205	266	0.	.0	29.5
1		0530	67	147.	49.4	40.5	1		1350	167	0.	.0	29.5	1		2210	267	0.	.0	29.5
1		0535	68	147.	49.2	40.5	1		1355	168	0.	.0	29.5	1		2215	268	0.	.0	29.5
1		0540	69	146.	48.8	40.4	1		1400	169	0.	.0	29.5	1		2220	269	0.	.0	29.5
1		0545	70	146.	48.3	40.4	1		1405	170	0.	.0	29.5	1		2225	270	0.	.0	29.5
1		0550	71	145.	47.7	40.3	1		1410	171	0.	.0	29.5	1		2230	271	0.	.0	29.5
1		0555	72	144.	47.1	40.2	1		1415	172	0.	.0	29.5	1		2235	272	0.	.0	29.5
1		0600	73	143.	46.4	40.1	1		1420	173	0.	.0	29.5	1		2240	273	0.	.0	29.5
1		0605	74	142.	45.7	39.9	1		1425	174	0.	.0	29.5	1		2245	274	0.	.0	29.5
1		0610	75	142.	44.9	39.8	1		1430	175	0.	.0	29.5	1		2250	275	0.	.0	29.5
1		0615	76	141.	44.1	39.7	1		1435	176	0.	.0	29.5	1		2255	276	0.	.0	29.5
1		0620	77	140.	43.4	39.6	1		1440	177	0.	.0	29.5	1		2300	277	0.	.0	29.5
1		0625	78	139.	42.5	39.4	1		1445	178	0.	.0	29.5	1		2305	278	0.	.0	29.5
1		0630	79	137.	41.7	39.3	1		1450	179	0.	.0	29.5	1		2310	279	0.	.0	29.5
1		0635	80	136.	40.8	39.2	1		1455	180	0.	.0	29.5	1		2315	280	0.	.0	29.5
1		0640	81	135.	40.0	39.0	1		1500	181	0.	.0	29.5	1		2320	281	0.	.0	29.5
1		0645	82	134.	39.1	38.9	1		1505	182	0.	.0	29.5	1		2325	282	0.	.0	29.5
1		0650	83	133.	38.2	38.8	1		1510	183	0.	.0	29.5	1		2330	283	0.	.0	29.5
1		0655	84	132.	37.3	38.6	1		1515	184	0.	.0	29.5	1		2335	284	0.	.0	29.5
1		0700	85	131.	36.4	38.5	1		1520	185	0.	.0	29.5	1		2340	285	0.	.0	29.5
1		0705	86	130.	35.5	38.3	1		1525	186	0.	.0	29.5	1		2345	286	0.	.0	29.5
1		0710	87	129.	34.6	38.2	1		1530	187	0.	.0	29.5	1		2350	287	0.	.0	29.5
1		0715	88	128.	33.8	38.1	1		1535	188	0.	.0	29.5	1		2355	288	0.	.0	29.5
1		0720	89	126.	32.9	37.9	1		1540	189	0.	.0	29.5	2		0000	289	0.	.0	29.5
1		0725	90	125.	32.0	37.8	1		1545	190	0.	.0	29.5	2		0005	290	0.	.0	29.5
1		0730	91	123.	31.2	37.6	1		1550	191	0.	.0	29.5	2		0010	291	0.	.0	29.5
1		0735	92	121.	30.4	37.4	1		1555	192	0.	.0	29.5	2		0015	292	0.	.0	29.5
1		0740	93	120.	29.5	37.3	1		1600	193	0.	.0	29.5	2		0020	293	0.	.0	29.5
1		0745	94	118.	28.7	37.2	1		1605	194	0.	.0	29.5	2		0025	294	0.	.0	29.5
1		0750	95	117.	27.9	37.0	1		1610	195	0.	.0	29.5	2		0030	295	0.	.0	29.5
1		0755	96	115.	27.1	36.9	1		1615	196	0.	.0	29.5	2		0035	296	0.	.0	29.5
1		0800	97	114.	26.3	36.7	1		1620	197	0.	.0	29.5	2		0040	297	0.	.0	29.5
1		0805	98	112.	25.5	36.6	1		1625	198	0.	.0	29.5	2		0045	298	0.	.0	29.5
1		0810	99	111.	24.8	36.4	1		1630	199	0.	.0	29.5	2		0050	299	0.	.0	29.5
1		0815	100	109.	24.0	36.3	1		1635	200	0.	.0	29.5	2		0055	300	0.	.0	29.5

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)	(CFS)				
147.	5.42		124.	40.	38.	38.
		(INCHES)	1.298	1.673	1.673	1.673
		(AC-FT)	61.	79.	79.	79.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
(AC-FT)	(HR)				
49.	5.42	33.	9.	9.	9.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
(FEET)	(HR)				
40.55	5.42	37.90	32.11	32.01	32.01

CUMULATIVE AREA = .89 SQ MI

HYDROGRAPH AT STATION DET1
PLAN 1, RATIO = .93

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	29.5	1		0820	101	103.	20.5	35.7	1		1640	201	0.	.0	29.5
1		0005	2	0.	.0	29.5	1		0825	102	101.	19.8	35.5	1		1645	202	0.	.0	29.5
1		0010	3	0.	.0	29.5	1		0830	103	100.	19.1	35.4	1		1650	203	0.	.0	29.5
1		0015	4	0.	.0	29.5	1		0835	104	99.	18.4	35.3	1		1655	204	0.	.0	29.5
1		0020	5	0.	.0	29.5	1		0840	105	98.	17.7	35.2	1		1700	205	0.	.0	29.5
1		0025	6	1.	.0	29.5	1		0845	106	96.	17.1	35.1	1		1705	206	0.	.0	29.5
1		0030	7	1.	.0	29.6	1		0850	107	95.	16.4	34.9	1		1710	207	0.	.0	29.5
1		0035	8	2.	.0	29.6	1		0855	108	94.	15.7	34.8	1		1715	208	0.	.0	29.5
1		0040	9	3.	.0	29.7	1		0900	109	93.	15.1	34.7	1		1720	209	0.	.0	29.5
1		0045	10	2.	.0	29.7	1		0905	110	91.	14.5	34.6	1		1725	210	0.	.0	29.5
1		0050	11	2.	.0	29.6	1		0910	111	90.	13.8	34.5	1		1730	211	0.	.0	29.5
1		0055	12	2.	.0	29.6	1		0915	112	89.	13.2	34.4	1		1735	212	0.	.0	29.5
1		0100	13	2.	.0	29.6	1		0920	113	88.	12.6	34.3	1		1740	213	0.	.0	29.5
1		0105	14	1.	.0	29.6	1		0925	114	87.	12.0	34.2	1		1745	214	0.	.0	29.5
1		0110	15	1.	.0	29.6	1		0930	115	86.	11.4	34.0	1		1750	215	0.	.0	29.5
1		0115	16	2.	.0	29.6	1		0935	116	84.	10.8	33.9	1		1755	216	0.	.0	29.5
1		0120	17	2.	.0	29.6	1		0940	117	81.	10.3	33.8	1		1800	217	0.	.0	29.5
1		0125	18	3.	.0	29.7	1		0945	118	78.	9.7	33.7	1		1805	218	0.	.0	29.5
1		0130	19	5.	.0	29.8	1		0950	119	75.	9.2	33.5	1		1810	219	0.	.0	29.5
1		0135	20	7.	.0	29.9	1		0955	120	73.	8.7	33.4	1		1815	220	0.	.0	29.5
1		0140	21	8.	.1	30.0	1		1000	121	70.	8.2	33.3	1		1820	221	0.	.0	29.5
1		0145	22	9.	.1	30.1	1		1005	122	68.	7.7	33.2	1		1825	222	0.	.0	29.5
1		0150	23	11.	.2	30.2	1		1010	123	66.	7.3	33.1	1		1830	223	0.	.0	29.5
1		0155	24	12.	.2	30.3	1		1015	124	64.	6.8	32.9	1		1835	224	0.	.0	29.5
1		0200	25	14.	.3	30.4	1		1020	125	61.	6.4	32.8	1		1840	225	0.	.0	29.5
1		0205	26	15.	.4	30.5	1		1025	126	59.	6.0	32.7	1		1845	226	0.	.0	29.5
1		0210	27	16.	.4	30.5	1		1030	127	57.	5.6	32.6	1		1850	227	0.	.0	29.5
1		0215	28	17.	.5	30.6	1		1035	128	55.	5.2	32.5	1		1855	228	0.	.0	29.5
1		0220	29	18.	.5	30.6	1		1040	129	54.	4.8	32.5	1		1900	229	0.	.0	29.5
1		0225	30	19.	.6	30.7	1		1045	130	52.	4.4	32.4	1		1905	230	0.	.0	29.5
1		0230	31	21.	.6	30.8	1		1050	131	50.	4.1	32.3	1		1910	231	0.	.0	29.5
1		0235	32	23.	.7	31.0	1		1055	132	48.	3.7	32.2	1		1915	232	0.	.0	29.5
1		0240	33	25.	.9	31.0	1		1100	133	47.	3.4	32.1	1		1920	233	0.	.0	29.5
1		0245	34	26.	1.0	31.1	1		1105	134	45.	3.1	32.0	1		1925	234	0.	.0	29.5
1		0250	35	27.	1.1	31.2	1		1110	135	43.	2.8	31.9	1		1930	235	0.	.0	29.5
1		0255	36	29.	1.3	31.2	1		1115	136	40.	2.5	31.8	1		1935	236	0.	.0	29.5
1		0300	37	30.	1.4	31.3	1		1120	137	38.	2.2	31.7	1		1940	237	0.	.0	29.5
1		0305	38	31.	1.6	31.4	1		1125	138	35.	2.0	31.6	1		1945	238	0.	.0	29.5
1		0310	39	33.	1.8	31.5	1		1130	139	33.	1.8	31.5	1		1950	239	0.	.0	29.5
1		0315	40	36.	2.0	31.6	1		1135	140	31.	1.5	31.4	1		1955	240	0.	.0	29.5
1		0320	41	40.	2.5	31.8	1		1140	141	29.	1.3	31.3	1		2000	241	0.	.0	29.5
1		0325	42	46.	3.3	32.1	1		1145	142	27.	1.1	31.2	1		2005	242	0.	.0	29.5
1		0330	43	53.	4.7	32.4	1		1150	143	25.	1.0	31.1	1		2010	243	0.	.0	29.5
1		0335	44	64.	6.9	33.0	1		1155	144	24.	.8	31.0	1		2015	244	0.	.0	29.5
1		0340	45	79.	9.9	33.7	1		1200	145	21.	.6	30.8	1		2020	245	0.	.0	29.5
1		0345	46	90.	13.6	34.4	1		1205	146	18.	.5	30.6	1		2025	246	0.	.0	29.5
1		0350	47	98.	17.7	35.2	1		1210	147	15.	.4	30.5	1		2030	247	0.	.0	29.5
1		0355	48	106.	21.9	35.9	1		1215	148	13.	.3	30.3	1		2035	248	0.	.0	29.5
1		0400	49	113.	26.0	36.7	1		1220	149	11.	.2	30.2	1		2040	249	0.	.0	29.5
1		0405	50	120.	29.6	37.3	1		1225	150	10.	.1	30.1	1		2045	250	0.	.0	29.5
1		0410	51	126.	32.7	37.9	1		1230	151	8.	.1	30.0	1		2050	251	0.	.0	29.5
1		0415	52	129.	35.2	38.3	1		1235	152	4.	.0	29.8	1		2055	252	0.	.0	29.5
1		0420	53	132.	37.1	38.6	1		1240	153	1.	.0	29.6	1		2100	253	0.	.0	29.5
1		0425	54	134.	38.6	38.8	1		1245	154	0.	.0	29.5	1		2105	254	0.	.0	29.5
1		0430	55	135.	39.7	39.0	1		1250	155	0.	.0	29.5	1		2110	255	0.	.0	29.5
1		0435	56	136.	40.6	39.1	1		1255	156	0.	.0	29.5	1		2115	256	0.	.0	29.5
1		0440	57	137.	41.3	39.3	1		1300	157	0.	.0	29.5	1		2120	257	0.	.0	29.5
1		0445	58	138.	42.0	39.4	1		1305	158	0.	.0	29.5	1		2125	258	0.	.0	29.5
1		0450	59	139.	42.6	39.5	1		1310	159	0.	.0	29.5	1		2130	259	0.	.0	29.5
1		0455	60	139.	43.3	39.6	1		1315	160	0.	.0	29.5	1		2135	260	0.	.0	29.5
1		0500	61	140.	43.9	39.7	1		1320	161	0.	.0	29.5	1		2140	261	0.	.0	29.5
1		0505	62	141.	44.5	39.8	1		1325	162	0.	.0	29.5	1		2145	262	0.	.0	29.5
1		0510	63	142.	45.0	39.8	1		1330	163	0.	.0	29.5	1		2150	263	0.	.0	29.5
1		0515	64	142.	45.4	39.9	1		1335	164	0.	.0	29.5	1		2155	264	0.	.0	29.5
1		0520	65	142.	45.7	40.0	1		1340	165	0.	.0	29.5	1		2200	265	0.	.0	29.5
1		0525	66	143.	45.8	40.0	1		1345	166	0.	.0	29.5	1		2205	266	0.	.0	29.5
1		0530	67	142.	45.7	39.9	1		1350	167	0.	.0	29.5	1		2210	267	0.	.0	29.5
1		0535	68	142.	45.4	39.9	1		1355	168	0.	.0	29.5	1		2215	268	0.	.0	29.5
1		0540	69	142.	45.0	39.8	1		1400	169	0.	.0	29.5	1		2220	269	0.	.0	29.5
1		0545	70	141.	44.6	39.8	1		1405	170	0.	.0	29.5	1		2225	270	0.	.0	29.5
1		0550	71	140.	44.0	39.7	1		1410	171	0.	.0	29.5	1		2230	271	0.	.0	29.5
1		0555	72	140.	43.4	39.6	1		1415	172	0.	.0	29.5	1		2235	272	0.	.0	29.5
1		0600	73	139.	42.7	39.5	1		1420	173	0.	.0	29.5	1		2240	273	0.	.0	29.5
1		0605	74	138.	42.0	39.4	1		1425	174	0.	.0	29.5	1		2245	274	0.	.0	29.5
1		0610	75	137.	41.3	39.2	1		1430	175	0.	.0	29.5	1		2250	275	0.	.0	29.5
1		0615	76	136.	40.5	39.1	1		1435	176	0.	.0	29.5	1		2255	276	0.	.0	29.5
1		0620	77	135.	39.7	39.0	1		1440	177	0.	.0	29.5	1		2300	277	0.	.0	29.5
1		0625	78	134.	38.9	38.9	1		1445	178	0.	.0	29.5	1		2305	278	0.	.0	29.5
1		0630	79	133.	38.1	38.7	1		1450	179	0.	.0	29.5	1		2310	279	0.	.0	29.5
1		0635	80	132.	37.3	38.6	1		1455	180	0.	.0	29.5	1		2315	280	0.	.0	29.5
1		0640	81	131.	36.4	38.5	1		1500	181	0.	.0	29.5	1		2320	281	0.	.0	29.5
1		0645	82	130.	35.6	38.3	1		1505	182	0.	.0	29.5	1		2325	282	0.	.0	29.5
1		0650	83	129.	34.7	38.2	1		1510	183	0.	.0	29.5	1		2330	283	0.	.0	29.5
1		0655	84	128.	33.9	38.1	1		1515	184	0.	.0	29.5	1		2335	284	0.	.0	29.5
1		0700	85	126.	33.0	37.9	1		1520	185	0.	.0	29.5	1		2340	285	0.	.0	29.5
1		0705	86	125.	32.2	37.8	1		1525	186	0.	.0	29.5	1		2345	286	0.	.0	29.5
1		0710	87	123.	31.3	37.6	1		1530	187	0.	.0	29.5	1		2350	287	0.	.0	29.5
1		0715	88	122.	30.5	37.5	1		1535	188	0.	.0	29.5	1		2355	288	0.	.0	29.5
1		0720	89	120.	29.7	37.3	1		1540	189	0.	.0	29.5	2		0000	289	0.	.0	29.5
1		0725	90	119.	28.8	37.2	1		1545	190	0.	.0	29.5	2		0005	290	0.	.0	29.5
1		0730	91	117.	28.0	37.0	1		1550	191	0.	.0	29.5	2		0010	291	0.	.0	29.5
1		0735	92	116.	27.2	36.9	1		1555	192	0.	.0	29.5	2		0015	292	0.	.0	29.5
1		0740	93	114.	26.4	36.7	1		1600	193	0.	.0	29.5	2		0020	293	0.	.0	29.5
1		0745	94	113.	25.7	36.6	1		1605	194	0.	.0	29.5	2		0025	294	0.	.0	29.5
1		0750	95	111.	24.9	36.5	1		1610	195	0.	.0	29.5	2		0030	295	0.	.0	29.5
1		0755	96	110.	24.1	36.3	1		1615	196	0.	.0	29.5	2		0035	296	0.	.0	29.5
1		0800	97	108.	23.4	36.2	1		1620	197	0.	.0	29.5	2		0040	297	0.	.0	29.5
1		0805	98	107.	22.6	36.1	1		1625	198	0.	.0	29.5	2		0045	298	0.	.0	29.5
1		0810	99	105.	21.9	35.9	1		1630	199	0.	.0	29.5	2		0050	299	0.	.0	29.5
1		0815	100	104.	21.2	35.8	1		1635	200	0.	.0	29.5	2		0055	300	0.	.0	29.5

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)	(CFS)				
143.	5.42		119.	37.	36.	36.
		(INCHES)	1.249	1.568	1.568	1.568
		(AC-FT)	59.	74.	74.	74.

PEAK STORAGE	TIME		MAXIMUM AVERAGE STORAGE			
			6-HR	24-HR	72-HR	24.92-HR
(AC-FT)	(HR)					
46.	5.42		30.	8.	8.	8.

PEAK STAGE	TIME		MAXIMUM AVERAGE STAGE			
			6-HR	24-HR	72-HR	24.92-HR
(FEET)	(HR)					
39.96	5.42		37.39	31.91	31.82	31.82

CUMULATIVE AREA = .89 SQ MI

HYDROGRAPH AT STATION DET1
PLAN 1, RATIO = .91

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	29.5	1		0820	101	100.	19.1	35.4	1		1640	201	0.	.0	29.5
1		0005	2	0.	.0	29.5	1		0825	102	99.	18.4	35.3	1		1645	202	0.	.0	29.5
1		0010	3	0.	.0	29.5	1		0830	103	98.	17.8	35.2	1		1650	203	0.	.0	29.5
1		0015	4	0.	.0	29.5	1		0835	104	96.	17.1	35.1	1		1655	204	0.	.0	29.5
1		0020	5	0.	.0	29.5	1		0840	105	95.	16.4	34.9	1		1700	205	0.	.0	29.5
1		0025	6	1.	.0	29.5	1		0845	106	94.	15.8	34.8	1		1705	206	0.	.0	29.5
1		0030	7	1.	.0	29.6	1		0850	107	93.	15.1	34.7	1		1710	207	0.	.0	29.5
1		0035	8	2.	.0	29.6	1		0855	108	91.	14.5	34.6	1		1715	208	0.	.0	29.5
1		0040	9	2.	.0	29.6	1		0900	109	90.	13.9	34.5	1		1720	209	0.	.0	29.5
1		0045	10	2.	.0	29.6	1		0905	110	89.	13.3	34.4	1		1725	210	0.	.0	29.5
1		0050	11	2.	.0	29.6	1		0910	111	88.	12.6	34.3	1		1730	211	0.	.0	29.5
1		0055	12	1.	.0	29.6	1		0915	112	87.	12.0	34.2	1		1735	212	0.	.0	29.5
1		0100	13	1.	.0	29.6	1		0920	113	86.	11.4	34.1	1		1740	213	0.	.0	29.5
1		0105	14	1.	.0	29.6	1		0925	114	84.	10.9	33.9	1		1745	214	0.	.0	29.5
1		0110	15	1.	.0	29.6	1		0930	115	81.	10.3	33.8	1		1750	215	0.	.0	29.5
1		0115	16	1.	.0	29.6	1		0935	116	78.	9.8	33.7	1		1755	216	0.	.0	29.5
1		0120	17	2.	.0	29.6	1		0940	117	76.	9.2	33.5	1		1800	217	0.	.0	29.5
1		0125	18	3.	.0	29.7	1		0945	118	73.	8.7	33.4	1		1805	218	0.	.0	29.5
1		0130	19	4.	.0	29.8	1		0950	119	71.	8.2	33.3	1		1810	219	0.	.0	29.5
1		0135	20	6.	.0	29.9	1		0955	120	68.	7.7	33.2	1		1815	220	0.	.0	29.5
1		0140	21	8.	.1	30.0	1		1000	121	66.	7.3	33.1	1		1820	221	0.	.0	29.5
1		0145	22	9.	.1	30.1	1		1005	122	64.	6.8	32.9	1		1825	222	0.	.0	29.5
1		0150	23	10.	.1	30.1	1		1010	123	61.	6.4	32.8	1		1830	223	0.	.0	29.5
1		0155	24	12.	.2	30.2	1		1015	124	59.	6.0	32.7	1		1835	224	0.	.0	29.5
1		0200	25	13.	.3	30.3	1		1020	125	57.	5.6	32.6	1		1840	225	0.	.0	29.5
1		0205	26	14.	.3	30.4	1		1025	126	55.	5.2	32.6	1		1845	226	0.	.0	29.5
1		0210	27	15.	.4	30.5	1		1030	127	54.	4.8	32.5	1		1850	227	0.	.0	29.5
1		0215	28	16.	.4	30.5	1		1035	128	52.	4.5	32.4	1		1855	228	0.	.0	29.5
1		0220	29	17.	.4	30.6	1		1040	129	50.	4.1	32.3	1		1900	229	0.	.0	29.5
1		0225	30	18.	.5	30.6	1		1045	130	48.	3.8	32.2	1		1905	230	0.	.0	29.5
1		0230	31	20.	.6	30.7	1		1050	131	47.	3.4	32.1	1		1910	231	0.	.0	29.5
1		0235	32	22.	.7	30.9	1		1055	132	45.	3.1	32.1	1		1915	232	0.	.0	29.5
1		0240	33	24.	.8	31.0	1		1100	133	43.	2.8	32.0	1		1920	233	0.	.0	29.5
1		0245	34	25.	.9	31.1	1		1105	134	40.	2.5	31.8	1		1925	234	0.	.0	29.5
1		0250	35	26.	1.0	31.1	1		1110	135	38.	2.3	31.7	1		1930	235	0.	.0	29.5
1		0255	36	28.	1.2	31.2	1		1115	136	36.	2.0	31.6	1		1935	236	0.	.0	29.5
1		0300	37	29.	1.3	31.3	1		1120	137	33.	1.8	31.5	1		1940	237	0.	.0	29.5
1		0305	38	30.	1.5	31.3	1		1125	138	31.	1.5	31.4	1		1945	238	0.	.0	29.5
1		0310	39	32.	1.6	31.4	1		1130	139	29.	1.3	31.3	1		1950	239	0.	.0	29.5
1		0315	40	34.	1.9	31.5	1		1135	140	27.	1.1	31.2	1		1955	240	0.	.0	29.5
1		0320	41	38.	2.3	31.7	1		1140	141	26.	1.0	31.1	1		2000	241	0.	.0	29.5
1		0325	42	45.	3.1	32.0	1		1145	142	24.	.8	31.0	1		2005	242	0.	.0	29.5
1		0330	43	52.	4.5	32.4	1		1150	143	21.	.6	30.8	1		2010	243	0.	.0	29.5
1		0335	44	62.	6.6	32.9	1		1155	144	18.	.5	30.6	1		2015	244	0.	.0	29.5
1		0340	45	77.	9.4	33.6	1		1200	145	15.	.4	30.5	1		2020	245	0.	.0	29.5
1		0345	46	89.	13.0	34.3	1		1205	146	13.	.3	30.3	1		2025	246	0.	.0	29.5
1		0350	47	96.	17.0	35.0	1		1210	147	11.	.2	30.2	1		2030	247	0.	.0	29.5
1		0355	48	104.	21.1	35.8	1		1215	148	10.	.1	30.1	1		2035	248	0.	.0	29.5
1		0400	49	111.	25.0	36.5	1		1220	149	8.	.1	30.0	1		2040	249	0.	.0	29.5
1		0405	50	118.	28.5	37.1	1		1225	150	4.	.0	29.8	1		2045	250	0.	.0	29.5
1		0410	51	123.	31.4	37.6	1		1230	151	1.	.0	29.6	1		2050	251	0.	.0	29.5
1		0415	52	128.	33.8	38.1	1		1235	152	0.	.0	29.5	1		2055	252	0.	.0	29.5
1		0420	53	130.	35.7	38.4	1		1240	153	0.	.0	29.5	1		2100	253	0.	.0	29.5
1		0425	54	132.	37.1	38.6	1		1245	154	0.	.0	29.5	1		2105	254	0.	.0	29.5
1		0430	55	133.	38.2	38.8	1		1250	155	0.	.0	29.5	1		2110	255	0.	.0	29.5
1		0435	56	134.	39.0	38.9	1		1255	156	0.	.0	29.5	1		2115	256	0.	.0	29.5
1		0440	57	135.	39.7	39.0	1		1300	157	0.	.0	29.5	1		2120	257	0.	.0	29.5
1		0445	58	136.	40.3	39.1	1		1305	158	0.	.0	29.5	1		2125	258	0.	.0	29.5
1		0450	59	137.	40.9	39.2	1		1310	159	0.	.0	29.5	1		2130	259	0.	.0	29.5
1		0455	60	137.	41.6	39.3	1		1315	160	0.	.0	29.5	1		2135	260	0.	.0	29.5
1		0500	61	138.	42.2	39.4	1		1320	161	0.	.0	29.5	1		2140	261	0.	.0	29.5
1		0505	62	139.	42.7	39.5	1		1325	162	0.	.0	29.5	1		2145	262	0.	.0	29.5
1		0510	63	139.	43.3	39.6	1		1330	163	0.	.0	29.5	1		2150	263	0.	.0	29.5
1		0515	64	140.	43.6	39.6	1		1335	164	0.	.0	29.5	1		2155	264	0.	.0	29.5
1		0520	65	140.	43.9	39.7	1		1340	165	0.	.0	29.5	1		2200	265	0.	.0	29.5
1		0525	66	140.	43.9	39.7	1		1345	166	0.	.0	29.5	1		2205	266	0.	.0	29.5
1		0530	67	140.	43.8	39.7	1		1350	167	0.	.0	29.5	1		2210	267	0.	.0	29.5
1		0535	68	140.	43.6	39.6	1		1355	168	0.	.0	29.5	1		2215	268	0.	.0	29.5
1		0540	69	139.	43.2	39.6	1		1400	169	0.	.0	29.5	1		2220	269	0.	.0	29.5
1		0545	70	139.	42.7	39.5	1		1405	170	0.	.0	29.5	1		2225	270	0.	.0	29.5
1		0550	71	138.	42.1	39.4	1		1410	171	0.	.0	29.5	1		2230	271	0.	.0	29.5
1		0555	72	137.	41.5	39.3	1		1415	172	0.	.0	29.5	1		2235	272	0.	.0	29.5
1		0600	73	136.	40.9	39.2	1		1420	173	0.	.0	29.5	1		2240	273	0.	.0	29.5
1		0605	74	136.	40.2	39.1	1		1425	174	0.	.0	29.5	1		2245	274	0.	.0	29.5
1		0610	75	135.	39.5	39.0	1		1430	175	0.	.0	29.5	1		2250	275	0.	.0	29.5
1		0615	76	134.	38.7	38.8	1		1435	176	0.	.0	29.5	1		2255	276	0.	.0	29.5
1		0620	77	133.	37.9	38.7	1		1440	177	0.	.0	29.5	1		2300	277	0.	.0	29.5
1		0625	78	132.	37.2	38.6	1		1445	178	0.	.0	29.5	1		2305	278	0.	.0	29.5
1		0630	79	131.	36.4	38.5	1		1450	179	0.	.0	29.5	1		2310	279	0.	.0	29.5
1		0635	80	130.	35.5	38.3	1		1455	180	0.	.0	29.5	1		2315	280	0.	.0	29.5
1		0640	81	129.	34.7	38.2	1		1500	181	0.	.0	29.5	1		2320	281	0.	.0	29.5
1		0645	82	128.	33.9	38.1	1		1505	182	0.	.0	29.5	1		2325	282	0.	.0	29.5
1		0650	83	126.	33.0	37.9	1		1510	183	0.	.0	29.5	1		2330	283	0.	.0	29.5
1		0655	84	125.	32.2	37.8	1		1515	184	0.	.0	29.5	1		2335	284	0.	.0	29.5
1		0700	85	123.	31.3	37.6	1		1520	185	0.	.0	29.5	1		2340	285	0.	.0	29.5
1		0705	86	122.	30.5	37.5	1		1525	186	0.	.0	29.5	1		2345	286	0.	.0	29.5
1		0710	87	120.	29.7	37.3	1		1530	187	0.	.0	29.5	1		2350	287	0.	.0	29.5
1		0715	88	119.	28.9	37.2	1		1535	188	0.	.0	29.5	1		2355	288	0.	.0	29.5
1		0720	89	117.	28.1	37.0	1		1540	189	0.	.0	29.5	2		0000	289	0.	.0	29.5
1		0725	90	116.	27.3	36.9	1		1545	190	0.	.0	29.5	2		0005	290	0.	.0	29.5
1		0730	91	114.	26.5	36.8	1		1550	191	0.	.0	29.5	2		0010	291	0.	.0	29.5
1		0735	92	113.	25.7	36.6	1		1555	192	0.	.0	29.5	2		0015	292	0.	.0	29.5
1		0740	93	111.	24.9	36.5	1		1600	193	0.	.0	29.5	2		0020	293	0.	.0	29.5
1		0745	94	110.	24.2	36.3	1		1605	194	0.	.0	29.5	2		0025	294	0.	.0	29.5
1		0750	95	108.	23.4	36.2	1		1610	195	0.	.0	29.5	2		0030	295	0.	.0	29.5
1		0755	96	107.	22.7	36.1	1		1615	196	0.	.0	29.5	2		0035	296	0.	.0	29.5
1		0800	97	106.	21.9	35.9	1		1620	197	0.	.0	29.5	2		0040	297	0.	.0	29.5
1		0805	98	104.	21.2	35.8	1		1625	198	0.	.0	29.5	2		0045	298	0.	.0	29.5
1		0810	99	103.	20.5	35.7	1		1630	199	0.	.0	29.5	2		0050	299	0.	.0	29.5
1		0815	100	102.	19.8	35.6	1		1635	200	0.	.0	29.5	2		0055	300	0.	.0	29.5

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)	(CFS)				
140.	5.42		117.	36.	35.	35.
		(INCHES)	1.223	1.515	1.515	1.515
		(AC-FT)	58.	72.	72.	72.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
(AC-FT)	(HR)				
44.	5.42	29.	8.	7.	7.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
(FEET)	(HR)				
39.67	5.42	37.13	31.81	31.72	31.72

CUMULATIVE AREA = .89 SQ MI

HYDROGRAPH AT STATION DET1
PLAN 1, RATIO = .90

DA MON HRMN ORD OUTFLOW STORAGE STAGE DA MON HRMN ORD OUTFLOW STORAGE STAGE DA MON HRMN ORD OUTFLOW STORAGE STAGE

1	0000	1	0.	.0	29.5	1	0820	101	99.	18.4	35.3	1	1640	201	0.	.0	29.5
1	0005	2	0.	.0	29.5	1	0825	102	98.	17.8	35.2	1	1645	202	0.	.0	29.5
1	0010	3	0.	.0	29.5	1	0830	103	96.	17.1	35.1	1	1650	203	0.	.0	29.5
1	0015	4	0.	.0	29.5	1	0835	104	95.	16.4	34.9	1	1655	204	0.	.0	29.5
1	0020	5	0.	.0	29.5	1	0840	105	94.	15.8	34.8	1	1700	205	0.	.0	29.5
1	0025	6	1.	.0	29.5	1	0845	106	93.	15.1	34.7	1	1705	206	0.	.0	29.5
1	0030	7	1.	.0	29.6	1	0850	107	91.	14.5	34.6	1	1710	207	0.	.0	29.5
1	0035	8	2.	.0	29.6	1	0855	108	90.	13.9	34.5	1	1715	208	0.	.0	29.5
1	0040	9	2.	.0	29.6	1	0900	109	89.	13.3	34.4	1	1720	209	0.	.0	29.5
1	0045	10	2.	.0	29.6	1	0905	110	88.	12.7	34.3	1	1725	210	0.	.0	29.5
1	0050	11	2.	.0	29.6	1	0910	111	87.	12.1	34.2	1	1730	211	0.	.0	29.5
1	0055	12	1.	.0	29.6	1	0915	112	86.	11.5	34.1	1	1735	212	0.	.0	29.5
1	0100	13	1.	.0	29.6	1	0920	113	84.	10.9	33.9	1	1740	213	0.	.0	29.5
1	0105	14	1.	.0	29.6	1	0925	114	81.	10.3	33.8	1	1745	214	0.	.0	29.5
1	0110	15	1.	.0	29.6	1	0930	115	78.	9.8	33.7	1	1750	215	0.	.0	29.5
1	0115	16	1.	.0	29.6	1	0935	116	76.	9.2	33.5	1	1755	216	0.	.0	29.5
1	0120	17	2.	.0	29.6	1	0940	117	73.	8.7	33.4	1	1800	217	0.	.0	29.5
1	0125	18	2.	.0	29.7	1	0945	118	71.	8.2	33.3	1	1805	218	0.	.0	29.5
1	0130	19	4.	.0	29.7	1	0950	119	68.	7.7	33.2	1	1810	219	0.	.0	29.5
1	0135	20	6.	.0	29.9	1	0955	120	66.	7.3	33.1	1	1815	220	0.	.0	29.5
1	0140	21	8.	.1	30.0	1	1000	121	64.	6.8	33.0	1	1820	221	0.	.0	29.5
1	0145	22	9.	.1	30.1	1	1005	122	62.	6.4	32.8	1	1825	222	0.	.0	29.5
1	0150	23	10.	.1	30.1	1	1010	123	59.	6.0	32.7	1	1830	223	0.	.0	29.5
1	0155	24	11.	.2	30.2	1	1015	124	57.	5.6	32.6	1	1835	224	0.	.0	29.5
1	0200	25	13.	.3	30.3	1	1020	125	56.	5.2	32.6	1	1840	225	0.	.0	29.5
1	0205	26	14.	.3	30.4	1	1025	126	54.	4.8	32.5	1	1845	226	0.	.0	29.5
1	0210	27	14.	.3	30.4	1	1030	127	52.	4.5	32.4	1	1850	227	0.	.0	29.5
1	0215	28	15.	.4	30.5	1	1035	128	50.	4.1	32.3	1	1855	228	0.	.0	29.5
1	0220	29	16.	.4	30.5	1	1040	129	48.	3.8	32.2	1	1900	229	0.	.0	29.5
1	0225	30	17.	.5	30.6	1	1045	130	47.	3.4	32.1	1	1905	230	0.	.0	29.5
1	0230	31	19.	.5	30.7	1	1050	131	45.	3.1	32.1	1	1910	231	0.	.0	29.5
1	0235	32	21.	.6	30.8	1	1055	132	43.	2.8	32.0	1	1915	232	0.	.0	29.5
1	0240	33	23.	.8	31.0	1	1100	133	41.	2.5	31.8	1	1920	233	0.	.0	29.5
1	0245	34	25.	.9	31.1	1	1105	134	38.	2.3	31.7	1	1925	234	0.	.0	29.5
1	0250	35	26.	1.0	31.1	1	1110	135	36.	2.0	31.6	1	1930	235	0.	.0	29.5
1	0255	36	27.	1.1	31.2	1	1115	136	33.	1.8	31.5	1	1935	236	0.	.0	29.5
1	0300	37	28.	1.3	31.2	1	1120	137	31.	1.6	31.4	1	1940	237	0.	.0	29.5
1	0305	38	30.	1.4	31.3	1	1125	138	29.	1.3	31.3	1	1945	238	0.	.0	29.5
1	0310	39	31.	1.5	31.4	1	1130	139	27.	1.1	31.2	1	1950	239	0.	.0	29.5
1	0315	40	34.	1.8	31.5	1	1135	140	26.	1.0	31.1	1	1955	240	0.	.0	29.5
1	0320	41	38.	2.2	31.7	1	1140	141	24.	.8	31.0	1	2000	241	0.	.0	29.5
1	0325	42	45.	3.0	32.0	1	1145	142	21.	.6	30.8	1	2005	242	0.	.0	29.5
1	0330	43	51.	4.3	32.3	1	1150	143	18.	.5	30.6	1	2010	243	0.	.0	29.5
1	0335	44	61.	6.4	32.8	1	1155	144	16.	.4	30.5	1	2015	244	0.	.0	29.5
1	0340	45	75.	9.2	33.5	1	1200	145	13.	.3	30.3	1	2020	245	0.	.0	29.5
1	0345	46	88.	12.7	34.3	1	1205	146	11.	.2	30.2	1	2025	246	0.	.0	29.5
1	0350	47	95.	16.6	35.0	1	1210	147	10.	.1	30.1	1	2030	247	0.	.0	29.5
1	0355	48	103.	20.6	35.7	1	1215	148	8.	.1	30.0	1	2035	248	0.	.0	29.5
1	0400	49	110.	24.5	36.4	1	1220	149	4.	.0	29.8	1	2040	249	0.	.0	29.5
1	0405	50	117.	27.9	37.0	1	1225	150	1.	.0	29.6	1	2045	250	0.	.0	29.5
1	0410	51	122.	30.8	37.5	1	1230	151	0.	.0	29.5	1	2050	251	0.	.0	29.5
1	0415	52	127.	33.1	37.9	1	1235	152	0.	.0	29.5	1	2055	252	0.	.0	29.5
1	0420	53	129.	35.0	38.2	1	1240	153	0.	.0	29.5	1	2100	253	0.	.0	29.5
1	0425	54	131.	36.3	38.5	1	1245	154	0.	.0	29.5	1	2105	254	0.	.0	29.5
1	0430	55	132.	37.4	38.6	1	1250	155	0.	.0	29.5	1	2110	255	0.	.0	29.5
1	0435	56	133.	38.2	38.8	1	1255	156	0.	.0	29.5	1	2115	256	0.	.0	29.5
1	0440	57	134.	38.9	38.9	1	1300	157	0.	.0	29.5	1	2120	257	0.	.0	29.5
1	0445	58	135.	39.5	39.0	1	1305	158	0.	.0	29.5	1	2125	258	0.	.0	29.5
1	0450	59	136.	40.1	39.1	1	1310	159	0.	.0	29.5	1	2130	259	0.	.0	29.5
1	0455	60	136.	40.7	39.2	1	1315	160	0.	.0	29.5	1	2135	260	0.	.0	29.5
1	0500	61	137.	41.3	39.3	1	1320	161	0.	.0	29.5	1	2140	261	0.	.0	29.5
1	0505	62	138.	41.9	39.3	1	1325	162	0.	.0	29.5	1	2145	262	0.	.0	29.5
1	0510	63	138.	42.4	39.4	1	1330	163	0.	.0	29.5	1	2150	263	0.	.0	29.5
1	0515	64	139.	42.7	39.5	1	1335	164	0.	.0	29.5	1	2155	264	0.	.0	29.5
1	0520	65	139.	42.9	39.5	1	1340	165	0.	.0	29.5	1	2200	265	0.	.0	29.5
1	0525	66	139.	43.0	39.5	1	1345	166	0.	.0	29.5	1	2205	266	0.	.0	29.5
1	0530	67	139.	42.9	39.5	1	1350	167	0.	.0	29.5	1	2210	267	0.	.0	29.5
1	0535	68	139.	42.6	39.5	1	1355	168	0.	.0	29.5	1	2215	268	0.	.0	29.5
1	0540	69	138.	42.3	39.4	1	1400	169	0.	.0	29.5	1	2220	269	0.	.0	29.5
1	0545	70	138.	41.8	39.3	1	1405	170	0.	.0	29.5	1	2225	270	0.	.0	29.5
1	0550	71	137.	41.2	39.2	1	1410	171	0.	.0	29.5	1	2230	271	0.	.0	29.5
1	0555	72	136.	40.6	39.1	1	1415	172	0.	.0	29.5	1	2235	272	0.	.0	29.5
1	0600	73	135.	40.0	39.0	1	1420	173	0.	.0	29.5	1	2240	273	0.	.0	29.5
1	0605	74	134.	39.3	38.9	1	1425	174	0.	.0	29.5	1	2245	274	0.	.0	29.5
1	0610	75	134.	38.6	38.8	1	1430	175	0.	.0	29.5	1	2250	275	0.	.0	29.5
1	0615	76	133.	37.8	38.7	1	1435	176	0.	.0	29.5	1	2255	276	0.	.0	29.5
1	0620	77	132.	37.1	38.6	1	1440	177	0.	.0	29.5	1	2300	277	0.	.0	29.5
1	0625	78	131.	36.3	38.5	1	1445	178	0.	.0	29.5	1	2305	278	0.	.0	29.5
1	0630	79	130.	35.5	38.3	1	1450	179	0.	.0	29.5	1	2310	279	0.	.0	29.5
1	0635	80	129.	34.7	38.2	1	1455	180	0.	.0	29.5	1	2315	280	0.	.0	29.5
1	0640	81	128.	33.8	38.1	1	1500	181	0.	.0	29.5	1	2320	281	0.	.0	29.5
1	0645	82	126.	33.0	37.9	1	1505	182	0.	.0	29.5	1	2325	282	0.	.0	29.5
1	0650	83	125.	32.2	37.8	1	1510	183	0.	.0	29.5	1	2330	283	0.	.0	29.5
1	0655	84	123.	31.3	37.6	1	1515	184	0.	.0	29.5	1	2335	284	0.	.0	29.5
1	0700	85	122.	30.5	37.5	1	1520	185	0.	.0	29.5	1	2340	285	0.	.0	29.5
1	0705	86	120.	29.7	37.3	1	1525	186	0.	.0	29.5	1	2345	286	0.	.0	29.5
1	0710	87	119.	28.9	37.2	1	1530	187	0.	.0	29.5	1	2350	287	0.	.0	29.5
1	0715	88	117.	28.1	37.0	1	1535	188	0.	.0	29.5	1	2355	288	0.	.0	29.5
1	0720	89	116.	27.3	36.9	1	1540	189	0.	.0	29.5	2	0000	289	0.	.0	29.5
1	0725	90	114.	26.5	36.8	1	1545	190	0.	.0	29.5	2	0005	290	0.	.0	29.5
1	0730	91	113.	25.7	36.6	1	1550	191	0.	.0	29.5	2	0010	291	0.	.0	29.5
1	0735	92	111.	24.9	36.5	1	1555	192	0.	.0	29.5	2	0015	292	0.	.0	29.5
1	0740	93	110.	24.2	36.3	1	1600	193	0.	.0	29.5	2	0020	293	0.	.0	29.5
1	0745	94	108.	23.4	36.2	1	1605	194	0.	.0	29.5	2	0025	294	0.	.0	29.5
1	0750	95	107.	22.7	36.1	1	1610	195	0.	.0	29.5	2	0030	295	0.	.0	29.5
1	0755	96	106.	22.0	35.9	1	1615	196	0.	.0	29.5	2	0035	296	0.	.0	29.5
1	0800	97	104.	21.2	35.8	1	1620	197	0.	.0	29.5	2	0040	297	0.	.0	29.5
1	0805	98	103.	20.5	35.7	1	1625	198	0.	.0	29.5	2	0045	298	0.	.0	29.5
1	0810	99	102.	19.8	35.6	1	1630	199	0.	.0	29.5	2	0050	299	0.	.0	29.5
1	0815	100	100.	19.1	35.4	1	1635	200	0.	.0	29.5	2	0055	300	0.	.0	29.5

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)	(CFS)				
+ 139.	5.42		115.	36.	34.	34.
		(INCHES)	1.210	1.489	1.489	1.489
		(AC-FT)	57.	70.	70.	70.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
+ 43.	5.42	28.	8.	7.	7.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
+ 39.52	5.42	37.00	31.76	31.68	31.68

CUMULATIVE AREA = .89 SQ MI

HYDROGRAPH AT STATION DET1
PLAN 1, RATIO = .70

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000		1	0.	.0	29.5	1	0820		101	63.	6.8	32.9	1	1640		201	0.	.0	29.5
1	0005		2	0.	.0	29.5	1	0825		102	61.	6.4	32.8	1	1645		202	0.	.0	29.5
1	0010		3	0.	.0	29.5	1	0830		103	59.	5.9	32.7	1	1650		203	0.	.0	29.5

1	0015	4	0.	.0	29.5	1	0835	104	57.	5.5	32.6	1	1655	204	0.	.0	29.5
1	0020	5	0.	.0	29.5	1	0840	105	55.	5.2	32.5	1	1700	205	0.	.0	29.5
1	0025	6	0.	.0	29.5	1	0845	106	53.	4.8	32.5	1	1705	206	0.	.0	29.5
1	0030	7	0.	.0	29.5	1	0850	107	52.	4.4	32.4	1	1710	207	0.	.0	29.5
1	0035	8	1.	.0	29.6	1	0855	108	50.	4.1	32.3	1	1715	208	0.	.0	29.5
1	0040	9	1.	.0	29.6	1	0900	109	48.	3.7	32.2	1	1720	209	0.	.0	29.5
1	0045	10	1.	.0	29.6	1	0905	110	47.	3.4	32.1	1	1725	210	0.	.0	29.5
1	0050	11	1.	.0	29.5	1	0910	111	45.	3.1	32.0	1	1730	211	0.	.0	29.5
1	0055	12	0.	.0	29.5	1	0915	112	43.	2.8	31.9	1	1735	212	0.	.0	29.5
1	0100	13	0.	.0	29.5	1	0920	113	40.	2.5	31.8	1	1740	213	0.	.0	29.5
1	0105	14	0.	.0	29.5	1	0925	114	38.	2.2	31.7	1	1745	214	0.	.0	29.5
1	0110	15	0.	.0	29.5	1	0930	115	35.	2.0	31.6	1	1750	215	0.	.0	29.5
1	0115	16	0.	.0	29.5	1	0935	116	33.	1.7	31.5	1	1755	216	0.	.0	29.5
1	0120	17	0.	.0	29.5	1	0940	117	31.	1.5	31.4	1	1800	217	0.	.0	29.5
1	0125	18	1.	.0	29.5	1	0945	118	29.	1.3	31.3	1	1805	218	0.	.0	29.5
1	0130	19	1.	.0	29.6	1	0950	119	27.	1.1	31.2	1	1810	219	0.	.0	29.5
1	0135	20	1.	.0	29.6	1	0955	120	25.	.9	31.1	1	1815	220	0.	.0	29.5
1	0140	21	2.	.0	29.6	1	1000	121	24.	.8	31.0	1	1820	221	0.	.0	29.5
1	0145	22	3.	.0	29.7	1	1005	122	21.	.6	30.8	1	1825	222	0.	.0	29.5
1	0150	23	4.	.0	29.7	1	1010	123	18.	.5	30.6	1	1830	223	0.	.0	29.5
1	0155	24	5.	.0	29.8	1	1015	124	15.	.4	30.5	1	1835	224	0.	.0	29.5
1	0200	25	5.	.0	29.8	1	1020	125	13.	.3	30.3	1	1840	225	0.	.0	29.5
1	0205	26	6.	.0	29.9	1	1025	126	11.	.2	30.2	1	1845	226	0.	.0	29.5
1	0210	27	6.	.0	29.9	1	1030	127	10.	.1	30.1	1	1850	227	0.	.0	29.5
1	0215	28	6.	.0	29.9	1	1035	128	8.	.1	30.0	1	1855	228	0.	.0	29.5
1	0220	29	7.	.0	30.0	1	1040	129	4.	.0	29.7	1	1900	229	0.	.0	29.5
1	0225	30	8.	.1	30.0	1	1045	130	1.	.0	29.6	1	1905	230	0.	.0	29.5
1	0230	31	9.	.1	30.1	1	1050	131	0.	.0	29.5	1	1910	231	0.	.0	29.5
1	0235	32	10.	.1	30.1	1	1055	132	0.	.0	29.5	1	1915	232	0.	.0	29.5
1	0240	33	11.	.2	30.2	1	1100	133	0.	.0	29.5	1	1920	233	0.	.0	29.5
1	0245	34	12.	.2	30.3	1	1105	134	0.	.0	29.5	1	1925	234	0.	.0	29.5
1	0250	35	13.	.3	30.3	1	1110	135	0.	.0	29.5	1	1930	235	0.	.0	29.5
1	0255	36	15.	.4	30.4	1	1115	136	0.	.0	29.5	1	1935	236	0.	.0	29.5
1	0300	37	16.	.4	30.5	1	1120	137	0.	.0	29.5	1	1940	237	0.	.0	29.5
1	0305	38	17.	.5	30.6	1	1125	138	0.	.0	29.5	1	1945	238	0.	.0	29.5
1	0310	39	19.	.5	30.7	1	1130	139	0.	.0	29.5	1	1950	239	0.	.0	29.5
1	0315	40	21.	.7	30.9	1	1135	140	0.	.0	29.5	1	1955	240	0.	.0	29.5
1	0320	41	25.	.9	31.1	1	1140	141	0.	.0	29.5	1	2000	241	0.	.0	29.5
1	0325	42	29.	1.3	31.3	1	1145	142	0.	.0	29.5	1	2005	242	0.	.0	29.5
1	0330	43	37.	2.1	31.6	1	1150	143	0.	.0	29.5	1	2010	243	0.	.0	29.5
1	0335	44	47.	3.4	32.1	1	1155	144	0.	.0	29.5	1	2015	244	0.	.0	29.5
1	0340	45	55.	5.2	32.6	1	1200	145	0.	.0	29.5	1	2020	245	0.	.0	29.5
1	0345	46	67.	7.4	33.1	1	1205	146	0.	.0	29.5	1	2025	246	0.	.0	29.5
1	0350	47	79.	9.9	33.7	1	1210	147	0.	.0	29.5	1	2030	247	0.	.0	29.5
1	0355	48	88.	12.5	34.2	1	1215	148	0.	.0	29.5	1	2035	248	0.	.0	29.5
1	0400	49	92.	14.9	34.7	1	1220	149	0.	.0	29.5	1	2040	249	0.	.0	29.5
1	0405	50	96.	17.1	35.1	1	1225	150	0.	.0	29.5	1	2045	250	0.	.0	29.5
1	0410	51	100.	19.0	35.4	1	1230	151	0.	.0	29.5	1	2050	251	0.	.0	29.5
1	0415	52	103.	20.4	35.7	1	1235	152	0.	.0	29.5	1	2055	252	0.	.0	29.5
1	0420	53	105.	21.6	35.9	1	1240	153	0.	.0	29.5	1	2100	253	0.	.0	29.5
1	0425	54	106.	22.4	36.0	1	1245	154	0.	.0	29.5	1	2105	254	0.	.0	29.5
1	0430	55	108.	23.0	36.1	1	1250	155	0.	.0	29.5	1	2110	255	0.	.0	29.5
1	0435	56	108.	23.5	36.2	1	1255	156	0.	.0	29.5	1	2115	256	0.	.0	29.5
1	0440	57	109.	23.9	36.3	1	1300	157	0.	.0	29.5	1	2120	257	0.	.0	29.5
1	0445	58	110.	24.2	36.3	1	1305	158	0.	.0	29.5	1	2125	258	0.	.0	29.5
1	0450	59	110.	24.5	36.4	1	1310	159	0.	.0	29.5	1	2130	259	0.	.0	29.5
1	0455	60	111.	24.8	36.5	1	1315	160	0.	.0	29.5	1	2135	260	0.	.0	29.5
1	0500	61	112.	25.2	36.5	1	1320	161	0.	.0	29.5	1	2140	261	0.	.0	29.5
1	0505	62	112.	25.5	36.6	1	1325	162	0.	.0	29.5	1	2145	262	0.	.0	29.5
1	0510	63	113.	25.7	36.6	1	1330	163	0.	.0	29.5	1	2150	263	0.	.0	29.5
1	0515	64	113.	25.9	36.6	1	1335	164	0.	.0	29.5	1	2155	264	0.	.0	29.5
1	0520	65	113.	25.9	36.7	1	1340	165	0.	.0	29.5	1	2200	265	0.	.0	29.5
1	0525	66	113.	25.9	36.6	1	1345	166	0.	.0	29.5	1	2205	266	0.	.0	29.5
1	0530	67	113.	25.7	36.6	1	1350	167	0.	.0	29.5	1	2210	267	0.	.0	29.5
1	0535	68	112.	25.4	36.6	1	1355	168	0.	.0	29.5	1	2215	268	0.	.0	29.5
1	0540	69	111.	25.1	36.5	1	1400	169	0.	.0	29.5	1	2220	269	0.	.0	29.5
1	0545	70	111.	24.7	36.4	1	1405	170	0.	.0	29.5	1	2225	270	0.	.0	29.5
1	0550	71	110.	24.2	36.3	1	1410	171	0.	.0	29.5	1	2230	271	0.	.0	29.5
1	0555	72	109.	23.7	36.2	1	1415	172	0.	.0	29.5	1	2235	272	0.	.0	29.5
1	0600	73	108.	23.1	36.1	1	1420	173	0.	.0	29.5	1	2240	273	0.	.0	29.5
1	0605	74	107.	22.5	36.0	1	1425	174	0.	.0	29.5	1	2245	274	0.	.0	29.5
1	0610	75	106.	22.0	35.9	1	1430	175	0.	.0	29.5	1	2250	275	0.	.0	29.5
1	0615	76	104.	21.4	35.8	1	1435	176	0.	.0	29.5	1	2255	276	0.	.0	29.5
1	0620	77	103.	20.8	35.7	1	1440	177	0.	.0	29.5	1	2300	277	0.	.0	29.5
1	0625	78	102.	20.1	35.6	1	1445	178	0.	.0	29.5	1	2305	278	0.	.0	29.5
1	0630	79	101.	19.5	35.5	1	1450	179	0.	.0	29.5	1	2310	279	0.	.0	29.5
1	0635	80	100.	18.9	35.4	1	1455	180	0.	.0	29.5	1	2315	280	0.	.0	29.5
1	0640	81	99.	18.2	35.3	1	1500	181	0.	.0	29.5	1	2320	281	0.	.0	29.5
1	0645	82	97.	17.6	35.2	1	1505	182	0.	.0	29.5	1	2325	282	0.	.0	29.5
1	0650	83	96.	17.0	35.0	1	1510	183	0.	.0	29.5	1	2330	283	0.	.0	29.5
1	0655	84	95.	16.3	34.9	1	1515	184	0.	.0	29.5	1	2335	284	0.	.0	29.5
1	0700	85	94.	15.7	34.8	1	1520	185	0.	.0	29.5	1	2340	285	0.	.0	29.5
1	0705	86	92.	15.0	34.7	1	1525	186	0.	.0	29.5	1	2345	286	0.	.0	29.5
1	0710	87	91.	14.4	34.6	1	1530	187	0.	.0	29.5	1	2350	287	0.	.0	29.5
1	0715	88	90.	13.8	34.5	1	1535	188	0.	.0	29.5	1	2355	288	0.	.0	29.5
1	0720	89	89.	13.2	34.4	1	1540	189	0.	.0	29.5	2	0000	289	0.	.0	29.5
1	0725	90	88.	12.6	34.3	1	1545	190	0.	.0	29.5	2	0005	290	0.	.0	29.5
1	0730	91	87.	12.0	34.1	1	1550	191	0.	.0	29.5	2	0010	291	0.	.0	29.5
1	0735	92	86.	11.4	34.0	1	1555	192	0.	.0	29.5	2	0015	292	0.	.0	29.5
1	0740	93	83.	10.8	33.9	1	1600	193	0.	.0	29.5	2	0020	293	0.	.0	29.5
1	0745	94	81.	10.2	33.8	1	1605	194	0.	.0	29.5	2	0025	294	0.	.0	29.5
1	0750	95	78.	9.7	33.6	1	1610	195	0.	.0	29.5	2	0030	295	0.	.0	29.5
1	0755	96	75.	9.2	33.5	1	1615	196	0.	.0	29.5	2	0035	296	0.	.0	29.5
1	0800	97	73.	8.7	33.4	1	1620	197	0.	.0	29.5	2	0040	297	0.	.0	29.5
1	0805	98	70.	8.2	33.3	1	1625	198	0.	.0	29.5	2	0045	298	0.	.0	29.5
1	0810	99	68.	7.7	33.2	1	1630	199	0.	.0	29.5	2	0050	299	0.	.0	29.5
1	0815	100	66.	7.2	33.0	1	1635	200	0.	.0	29.5	2	0055	300	0.	.0	29.5

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)	(CFS)				
+ 113.	5.33		86.	24.	23.	23.
		(INCHES)	.904	.986	.986	.986
		(AC-FT)	43.	47.	47.	47.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
26.	5.33	15.	4.	4.	4.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
36.65	5.33	34.56	30.89	30.84	30.84

CUMULATIVE AREA = .89 SQ MI

HYDROGRAPH AT STATION DET1
PLAN 1, RATIO = .57

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	29.5	1		0820	101	34.	1.9	31.5	1		1640	201	0.	.0	29.5
1		0005	2	0.	.0	29.5	1		0825	102	32.	1.6	31.4	1		1645	202	0.	.0	29.5
1		0010	3	0.	.0	29.5	1		0830	103	30.	1.4	31.3	1		1650	203	0.	.0	29.5
1		0015	4	0.	.0	29.5	1		0835	104	28.	1.2	31.2	1		1655	204	0.	.0	29.5
1		0020	5	0.	.0	29.5	1		0840	105	26.	1.0	31.1	1		1700	205	0.	.0	29.5
1		0025	6	0.	.0	29.5	1		0845	106	25.	.9	31.0	1		1705	206	0.	.0	29.5
1		0030	7	0.	.0	29.5	1		0850	107	22.	.7	30.9	1		1710	207	0.	.0	29.5

1	0035	8	0.	.0	29.5	*	1	0855	108	19.	.5	30.7	*	1	1715	208	0.	.0	29.5
1	0040	9	0.	.0	29.5	*	1	0900	109	16.	.4	30.5	*	1	1720	209	0.	.0	29.5
1	0045	10	0.	.0	29.5	*	1	0905	110	14.	.3	30.4	*	1	1725	210	0.	.0	29.5
1	0050	11	0.	.0	29.5	*	1	0910	111	12.	.2	30.3	*	1	1730	211	0.	.0	29.5
1	0055	12	0.	.0	29.5	*	1	0915	112	10.	.2	30.2	*	1	1735	212	0.	.0	29.5
1	0100	13	0.	.0	29.5	*	1	0920	113	9.	.1	30.1	*	1	1740	213	0.	.0	29.5
1	0105	14	0.	.0	29.5	*	1	0925	114	7.	.0	29.9	*	1	1745	214	0.	.0	29.5
1	0110	15	0.	.0	29.5	*	1	0930	115	2.	.0	29.6	*	1	1750	215	0.	.0	29.5
1	0115	16	0.	.0	29.5	*	1	0935	116	0.	.0	29.5	*	1	1755	216	0.	.0	29.5
1	0120	17	0.	.0	29.5	*	1	0940	117	0.	.0	29.5	*	1	1800	217	0.	.0	29.5
1	0125	18	0.	.0	29.5	*	1	0945	118	0.	.0	29.5	*	1	1805	218	0.	.0	29.5
1	0130	19	0.	.0	29.5	*	1	0950	119	0.	.0	29.5	*	1	1810	219	0.	.0	29.5
1	0135	20	1.	.0	29.5	*	1	0955	120	0.	.0	29.5	*	1	1815	220	0.	.0	29.5
1	0140	21	1.	.0	29.6	*	1	1000	121	0.	.0	29.5	*	1	1820	221	0.	.0	29.5
1	0145	22	1.	.0	29.6	*	1	1005	122	0.	.0	29.5	*	1	1825	222	0.	.0	29.5
1	0150	23	1.	.0	29.6	*	1	1010	123	0.	.0	29.5	*	1	1830	223	0.	.0	29.5
1	0155	24	1.	.0	29.6	*	1	1015	124	0.	.0	29.5	*	1	1835	224	0.	.0	29.5
1	0200	25	1.	.0	29.6	*	1	1020	125	0.	.0	29.5	*	1	1840	225	0.	.0	29.5
1	0205	26	1.	.0	29.6	*	1	1025	126	0.	.0	29.5	*	1	1845	226	0.	.0	29.5
1	0210	27	1.	.0	29.6	*	1	1030	127	0.	.0	29.5	*	1	1850	227	0.	.0	29.5
1	0215	28	1.	.0	29.6	*	1	1035	128	0.	.0	29.5	*	1	1855	228	0.	.0	29.5
1	0220	29	2.	.0	29.6	*	1	1040	129	0.	.0	29.5	*	1	1900	229	0.	.0	29.5
1	0225	30	3.	.0	29.7	*	1	1045	130	0.	.0	29.5	*	1	1905	230	0.	.0	29.5
1	0230	31	4.	.0	29.8	*	1	1050	131	0.	.0	29.5	*	1	1910	231	0.	.0	29.5
1	0235	32	5.	.0	29.8	*	1	1055	132	0.	.0	29.5	*	1	1915	232	0.	.0	29.5
1	0240	33	6.	.0	29.9	*	1	1100	133	0.	.0	29.5	*	1	1920	233	0.	.0	29.5
1	0245	34	8.	.0	30.0	*	1	1105	134	0.	.0	29.5	*	1	1925	234	0.	.0	29.5
1	0250	35	8.	.1	30.0	*	1	1110	135	0.	.0	29.5	*	1	1930	235	0.	.0	29.5
1	0255	36	8.	.1	30.0	*	1	1115	136	0.	.0	29.5	*	1	1935	236	0.	.0	29.5
1	0300	37	9.	.1	30.1	*	1	1120	137	0.	.0	29.5	*	1	1940	237	0.	.0	29.5
1	0305	38	9.	.1	30.1	*	1	1125	138	0.	.0	29.5	*	1	1945	238	0.	.0	29.5
1	0310	39	10.	.1	30.1	*	1	1130	139	0.	.0	29.5	*	1	1950	239	0.	.0	29.5
1	0315	40	12.	.2	30.2	*	1	1135	140	0.	.0	29.5	*	1	1955	240	0.	.0	29.5
1	0320	41	15.	.4	30.4	*	1	1140	141	0.	.0	29.5	*	1	2000	241	0.	.0	29.5
1	0325	42	21.	.6	30.8	*	1	1145	142	0.	.0	29.5	*	1	2005	242	0.	.0	29.5
1	0330	43	27.	1.1	31.2	*	1	1150	143	0.	.0	29.5	*	1	2010	243	0.	.0	29.5
1	0335	44	35.	1.9	31.5	*	1	1155	144	0.	.0	29.5	*	1	2015	244	0.	.0	29.5
1	0340	45	45.	3.1	32.0	*	1	1200	145	0.	.0	29.5	*	1	2020	245	0.	.0	29.5
1	0345	46	52.	4.5	32.4	*	1	1205	146	0.	.0	29.5	*	1	2025	246	0.	.0	29.5
1	0350	47	60.	6.2	32.8	*	1	1210	147	0.	.0	29.5	*	1	2030	247	0.	.0	29.5
1	0355	48	69.	7.9	33.2	*	1	1215	148	0.	.0	29.5	*	1	2035	248	0.	.0	29.5
1	0400	49	77.	9.6	33.6	*	1	1220	149	0.	.0	29.5	*	1	2040	249	0.	.0	29.5
1	0405	50	84.	11.0	34.0	*	1	1225	150	0.	.0	29.5	*	1	2045	250	0.	.0	29.5
1	0410	51	87.	12.2	34.2	*	1	1230	151	0.	.0	29.5	*	1	2050	251	0.	.0	29.5
1	0415	52	89.	13.1	34.4	*	1	1235	152	0.	.0	29.5	*	1	2055	252	0.	.0	29.5
1	0420	53	90.	13.8	34.5	*	1	1240	153	0.	.0	29.5	*	1	2100	253	0.	.0	29.5
1	0425	54	91.	14.3	34.6	*	1	1245	154	0.	.0	29.5	*	1	2105	254	0.	.0	29.5
1	0430	55	92.	14.7	34.6	*	1	1250	155	0.	.0	29.5	*	1	2110	255	0.	.0	29.5
1	0435	56	92.	14.9	34.7	*	1	1255	156	0.	.0	29.5	*	1	2115	256	0.	.0	29.5
1	0440	57	93.	15.1	34.7	*	1	1300	157	0.	.0	29.5	*	1	2120	257	0.	.0	29.5
1	0445	58	93.	15.2	34.7	*	1	1305	158	0.	.0	29.5	*	1	2125	258	0.	.0	29.5
1	0450	59	93.	15.4	34.8	*	1	1310	159	0.	.0	29.5	*	1	2130	259	0.	.0	29.5
1	0455	60	93.	15.5	34.8	*	1	1315	160	0.	.0	29.5	*	1	2135	260	0.	.0	29.5
1	0500	61	94.	15.7	34.8	*	1	1320	161	0.	.0	29.5	*	1	2140	261	0.	.0	29.5
1	0505	62	94.	15.8	34.8	*	1	1325	162	0.	.0	29.5	*	1	2145	262	0.	.0	29.5
1	0510	63	94.	15.9	34.9	*	1	1330	163	0.	.0	29.5	*	1	2150	263	0.	.0	29.5
1	0515	64	94.	16.0	34.9	*	1	1335	164	0.	.0	29.5	*	1	2155	264	0.	.0	29.5
1	0520	65	94.	16.0	34.9	*	1	1340	165	0.	.0	29.5	*	1	2200	265	0.	.0	29.5
1	0525	66	94.	15.9	34.8	*	1	1345	166	0.	.0	29.5	*	1	2205	266	0.	.0	29.5
1	0530	67	94.	15.7	34.8	*	1	1350	167	0.	.0	29.5	*	1	2210	267	0.	.0	29.5
1	0535	68	93.	15.4	34.8	*	1	1355	168	0.	.0	29.5	*	1	2215	268	0.	.0	29.5
1	0540	69	93.	15.1	34.7	*	1	1400	169	0.	.0	29.5	*	1	2220	269	0.	.0	29.5
1	0545	70	92.	14.7	34.6	*	1	1405	170	0.	.0	29.5	*	1	2225	270	0.	.0	29.5
1	0550	71	91.	14.3	34.6	*	1	1410	171	0.	.0	29.5	*	1	2230	271	0.	.0	29.5
1	0555	72	90.	13.8	34.5	*	1	1415	172	0.	.0	29.5	*	1	2235	272	0.	.0	29.5
1	0600	73	89.	13.3	34.4	*	1	1420	173	0.	.0	29.5	*	1	2240	273	0.	.0	29.5
1	0605	74	88.	12.9	34.3	*	1	1425	174	0.	.0	29.5	*	1	2245	274	0.	.0	29.5
1	0610	75	87.	12.4	34.2	*	1	1430	175	0.	.0	29.5	*	1	2250	275	0.	.0	29.5
1	0615	76	86.	11.9	34.1	*	1	1435	176	0.	.0	29.5	*	1	2255	276	0.	.0	29.5
1	0620	77	86.	11.4	34.0	*	1	1440	177	0.	.0	29.5	*	1	2300	277	0.	.0	29.5
1	0625	78	84.	10.8	33.9	*	1	1445	178	0.	.0	29.5	*	1	2305	278	0.	.0	29.5
1	0630	79	81.	10.3	33.8	*	1	1450	179	0.	.0	29.5	*	1	2310	279	0.	.0	29.5
1	0635	80	78.	9.8	33.7	*	1	1455	180	0.	.0	29.5	*	1	2315	280	0.	.0	29.5
1	0640	81	76.	9.3	33.6	*	1	1500	181	0.	.0	29.5	*	1	2320	281	0.	.0	29.5
1	0645	82	74.	8.8	33.4	*	1	1505	182	0.	.0	29.5	*	1	2325	282	0.	.0	29.5
1	0650	83	71.	8.3	33.3	*	1	1510	183	0.	.0	29.5	*	1	2330	283	0.	.0	29.5
1	0655	84	69.	7.9	33.2	*	1	1515	184	0.	.0	29.5	*	1	2335	284	0.	.0	29.5
1	0700	85	67.	7.4	33.1	*	1	1520	185	0.	.0	29.5	*	1	2340	285	0.	.0	29.5
1	0705	86	64.	7.0	33.0	*	1	1525	186	0.	.0	29.5	*	1	2345	286	0.	.0	29.5
1	0710	87	62.	6.5	32.9	*	1	1530	187	0.	.0	29.5	*	1	2350	287	0.	.0	29.5
1	0715	88	60.	6.1	32.8	*	1	1535	188	0.	.0	29.5	*	1	2355	288	0.	.0	29.5
1	0720	89	58.	5.7	32.7	*	1	1540	189	0.	.0	29.5	*	2	0000	289	0.	.0	29.5
1	0725	90	56.	5.3	32.6	*	1	1545	190	0.	.0	29.5	*	2	0005	290	0.	.0	29.5
1	0730	91	54.	4.9	32.5	*	1	1550	191	0.	.0	29.5	*	2	0010	291	0.	.0	29.5
1	0735	92	52.	4.6	32.4	*	1	1555	192	0.	.0	29.5	*	2	0015	292	0.	.0	29.5
1	0740	93	51.	4.2	32.3	*	1	1600	193	0.	.0	29.5	*	2	0020	293	0.	.0	29.5
1	0745	94	49.	3.9	32.2	*	1	1605	194	0.	.0	29.5	*	2	0025	294	0.	.0	29.5
1	0750	95	47.	3.6	32.2	*	1	1610	195	0.	.0	29.5	*	2	0030	295	0.	.0	29.5
1	0755	96	46.	3.2	32.1	*	1	1615	196	0.	.0	29.5	*	2	0035	296	0.	.0	29.5
1	0800	97	44.	2.9	32.0	*	1	1620	197	0.	.0	29.5	*	2	0040	297	0.	.0	29.5
1	0805	98	41.	2.6	31.9	*	1	1625	198	0.	.0	29.5	*	2	0045	298	0.	.0	29.5
1	0810	99	39.	2.4	31.7	*	1	1630	199	0.	.0	29.5	*	2	0050	299	0.	.0	29.5
1	0815	100	36.	2.1	31.6	*	1	1635	200	0.	.0	29.5	*	2	0055	300	0.	.0	29.5
						*							*						

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)	(CFS)				
+ 94.	5.25		64.	16.	16.	16.
		(INCHES)	.667	.683	.683	.683
		(AC-FT)	32.	32.	32.	32.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
16.	5.25	8.	2.	2.	2.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
34.87	5.25	33.05	30.41	30.38	30.38

CUMULATIVE AREA = .89 SQ MI

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          *             *
88 KK     *    DET2     *
          *             *
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90 KO          OUTPUT CONTROL VARIABLES
                    IPRNT          1  PRINT CONTROL
                    IPLOT          0  PLOT CONTROL
                    QSCAL          0.  HYDROGRAPH PLOT SCALE

               HYDROGRAPH ROUTING DATA

91 RS          STORAGE ROUTING
                    NSTPS          1  NUMBER OF SUBREACHES
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		ITYP RSVRIC X	ELEV 23.00 .00	TYPE OF INITIAL CONDITION INITIAL CONDITION WORKING R AND D COEFFICIENT			
92 SA		AREA	.0	.8	8.8	9.7	10.4
93 SE		ELEVATION	23.00	24.00	29.00	30.00	32.00
94 SQ		DISCHARGE	0.	17.	42.	46.	53.
95 SE		ELEVATION	23.00	25.00	29.00	30.00	32.00

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COMPUTED STORAGE-ELEVATION DATA

STORAGE	.00	.25	20.40	29.61	49.71
ELEVATION	23.00	24.00	29.00	30.00	32.00

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	.25	1.44	20.40	29.61	49.71
OUTFLOW	.00	8.28	16.57	41.71	45.89	53.28
ELEVATION	23.00	24.00	25.00	29.00	30.00	32.00

HYDROGRAPH AT STATION DET2
PLAN 1, RATIO = 1.00

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	23.0	1		0820	101	50.	39.5	31.0	1		1640	201	42.	20.7	29.0
1		0005	2	0.	.0	23.0	1		0825	102	50.	39.6	31.0	1		1645	202	42.	20.4	29.0
1		0010	3	0.	.0	23.0	1		0830	103	50.	39.6	31.0	1		1650	203	41.	20.1	28.9
1		0015	4	0.	.0	23.0	1		0835	104	50.	39.7	31.0	1		1655	204	41.	19.8	28.9
1		0020	5	0.	.0	23.0	1		0840	105	50.	39.8	31.0	1		1700	205	41.	19.5	28.8
1		0025	6	0.	.0	23.1	1		0845	106	50.	39.8	31.0	1		1705	206	40.	19.3	28.8
1		0030	7	1.	.0	23.1	1		0850	107	50.	39.9	31.0	1		1710	207	40.	19.0	28.7
1		0035	8	2.	.1	23.2	1		0855	108	50.	39.9	31.0	1		1715	208	39.	18.7	28.6
1		0040	9	3.	.1	23.3	1		0900	109	50.	39.9	31.0	1		1720	209	39.	18.4	28.6
1		0045	10	3.	.1	23.4	1		0905	110	50.	40.0	31.0	1		1725	210	39.	18.2	28.5
1		0050	11	4.	.1	23.4	1		0910	111	50.	40.0	31.0	1		1730	211	38.	17.9	28.5
1		0055	12	4.	.1	23.4	1		0915	112	50.	40.0	31.0	1		1735	212	38.	17.7	28.4
1		0100	13	4.	.1	23.4	1		0920	113	50.	40.0	31.0	1		1740	213	38.	17.4	28.4
1		0105	14	3.	.1	23.4	1		0925	114	50.	40.0	31.0	1		1745	214	37.	17.1	28.3
1		0110	15	3.	.1	23.4	1		0930	115	50.	40.1	31.0	1		1750	215	37.	16.9	28.3
1		0115	16	3.	.1	23.4	1		0935	116	50.	40.1	31.0	1		1755	216	37.	16.6	28.2
1		0120	17	3.	.1	23.4	1		0940	117	50.	40.1	31.0	1		1800	217	36.	16.4	28.1
1		0125	18	4.	.1	23.5	1		0945	118	50.	40.1	31.0	1		1805	218	36.	16.1	28.1
1		0130	19	5.	.1	23.5	1		0950	119	50.	40.0	31.0	1		1810	219	36.	15.9	28.0
1		0135	20	6.	.2	23.7	1		0955	120	50.	40.0	31.0	1		1815	220	35.	15.6	28.0
1		0140	21	8.	.2	23.9	1		1000	121	50.	40.0	31.0	1		1820	221	35.	15.4	27.9
1		0145	22	9.	.3	24.0	1		1005	122	50.	40.0	31.0	1		1825	222	35.	15.1	27.9
1		0150	23	9.	.4	24.1	1		1010	123	50.	40.0	31.0	1		1830	223	34.	14.9	27.8
1		0155	24	10.	.4	24.2	1		1015	124	50.	39.9	31.0	1		1835	224	34.	14.7	27.8
1		0200	25	10.	.5	24.2	1		1020	125	50.	39.9	31.0	1		1840	225	34.	14.4	27.7
1		0205	26	11.	.6	24.3	1		1025	126	50.	39.8	31.0	1		1845	226	33.	14.2	27.7
1		0210	27	11.	.6	24.3	1		1030	127	50.	39.7	31.0	1		1850	227	33.	14.0	27.6
1		0215	28	11.	.7	24.4	1		1035	128	50.	39.7	31.0	1		1855	228	33.	13.7	27.6
1		0220	29	12.	.8	24.5	1		1040	129	50.	39.6	31.0	1		1900	229	33.	13.5	27.5
1		0225	30	13.	.9	24.5	1		1045	130	50.	39.5	31.0	1		1905	230	32.	13.3	27.5
1		0230	31	14.	1.0	24.7	1		1050	131	49.	39.4	31.0	1		1910	231	32.	13.1	27.5
1		0235	32	15.	1.2	24.8	1		1055	132	49.	39.3	31.0	1		1915	232	32.	12.9	27.4
1		0240	33	16.	1.3	24.9	1		1100	133	49.	39.1	30.9	1		1920	233	31.	12.6	27.4
1		0245	34	17.	1.4	25.0	1		1105	134	49.	39.0	30.9	1		1925	234	31.	12.4	27.3
1		0250	35	17.	1.6	25.0	1		1110	135	49.	38.9	30.9	1		1930	235	31.	12.2	27.3
1		0255	36	17.	1.8	25.1	1		1115	136	49.	38.7	30.9	1		1935	236	31.	12.0	27.2
1		0300	37	17.	1.9	25.1	1		1120	137	49.	38.6	30.9	1		1940	237	30.	11.8	27.2
1		0305	38	17.	2.1	25.1	1		1125	138	49.	38.4	30.9	1		1945	238	30.	11.6	27.1
1		0310	39	18.	2.3	25.2	1		1130	139	49.	38.3	30.9	1		1950	239	30.	11.4	27.1
1		0315	40	18.	2.6	25.2	1		1135	140	49.	38.1	30.8	1		1955	240	29.	11.2	27.1
1		0320	41	19.	3.1	25.3	1		1140	141	49.	38.0	30.8	1		2000	241	29.	11.0	27.0
1		0325	42	20.	3.9	25.5	1		1145	142	49.	37.8	30.8	1		2005	242	29.	10.8	27.0
1		0330	43	21.	5.1	25.8	1		1150	143	49.	37.6	30.8	1		2010	243	29.	10.6	26.9
1		0335	44	24.	6.8	26.1	1		1155	144	49.	37.4	30.8	1		2015	244	28.	10.4	26.9
1		0340	45	26.	8.9	26.6	1		1200	145	49.	37.2	30.8	1		2020	245	28.	10.2	26.8
1		0345	46	30.	11.3	27.1	1		1205	146	49.	37.0	30.7	1		2025	246	28.	10.0	26.8
1		0350	47	33.	13.6	27.6	1		1210	147	49.	36.8	30.7	1		2030	247	28.	9.8	26.8
1		0355	48	36.	15.8	28.0	1		1215	148	48.	36.6	30.7	1		2035	248	27.	9.6	26.7
1		0400	49	38.	17.7	28.4	1		1220	149	48.	36.3	30.7	1		2040	249	27.	9.4	26.7
1		0405	50	40.	19.3	28.8	1		1225	150	48.	36.1	30.6	1		2045	250	27.	9.2	26.6
1		0410	51	42.	20.6	29.0	1		1230	151	48.	35.8	30.6	1		2050	251	27.	9.0	26.6
1		0415	52	42.	21.8	29.2	1		1235	152	48.	35.6	30.6	1		2055	252	26.	8.9	26.6
1		0420	53	43.	22.8	29.3	1		1240	153	48.	35.3	30.6	1		2100	253	26.	8.7	26.5
1		0425	54	43.	23.6	29.3	1		1245	154	48.	35.1	30.5	1		2105	254	26.	8.5	26.5
1		0430	55	44.	24.4	29.4	1		1250	155	48.	34.8	30.5	1		2110	255	26.	8.3	26.5
1		0435	56	44.	25.1	29.5	1		1255	156	48.	34.5	30.5	1		2115	256	25.	8.2	26.4
1		0440	57	44.	25.9	29.6	1		1300	157	48.	34.2	30.5	1		2120	257	25.	8.0	26.4
1		0445	58	45.	26.7	29.7	1		1305	158	47.	33.9	30.4	1		2125	258	25.	7.8	26.3
1		0450	59	45.	27.5	29.8	1		1310	159	47.	33.6	30.4	1		2130	259	25.	7.6	26.3
1		0455	60	45.	28.4	29.9	1		1315	160	47.	33.3	30.4	1		2135	260	25.	7.5	26.3
1		0500	61	46.	29.2	30.0	1		1320	161	47.	32.9	30.3	1		2140	261	24.	7.3	26.2
1		0505	62	46.	30.0	30.0	1		1325	162	47.	32.6	30.3	1		2145	262	24.	7.1	26.2
1		0510	63	46.	30.7	30.1	1		1330	163	47.	32.3	30.3	1		2150	263	24.	7.0	26.2
1		0515	64	47.	31.4	30.2	1		1335	164	47.	32.0	30.2	1		2155	264	24.	6.8	26.1
1		0520	65	47.	32.0	30.2	1		1340	165	47.	31.7	30.2	1		2200	265	23.	6.6	26.1
1		0525	66	47.	32.5	30.3	1		1345	166	47.	31.3	30.2	1		2205	266	23.	6.5	26.1
1		0530	67	47.	32.9	30.3	1		1350	167	46.	31.0	30.1	1		2210	267	23.	6.3	26.0
1		0535	68	47.	33.4	30.4	1		1355	168	46.	30.7	30.1	1		2215	268	23.	6.2	26.0
1		0540	69	47.	33.7	30.4	1		1400	169	46.	30.4	30.1	1		2220	269	23.	6.0	26.0
1		0545	70	48.	34.1	30.4	1		1405	170	46.	30.1	30.0	1		2225	270	22.	5.8	25.9
1		0550	71	48.	34.4	30.5	1		1410	171	46.	29.7	30.0	1		2230	271	22.	5.7	25.9
1		0555	72	48.	34.7	30.5	1		1415	172	46.	29.4	30.0	1		2235	272	22.	5.5	25.9
1		0600	73	48.	35.0	30.5	1		1420	173	46.	29.1	29.9	1		2240	273	22.	5.4	25.8
1		0605	74	48.	35.3	30.6	1		1425	174	46.	28.8	29.9	1		2245	274	22.	5.2	25.8
1		0610	75	48.	35.5	30.6	1		1430	175	45.	28.5	29.9	1		2250	275	21.	5.1	25.8
1		0615	76	48.	35.8	30.6	1		1435	176	45.	28.2	29.8	1		2255	276	21.	4.9	25.7
1		0620	77	48.	36.0	30.6	1		1440	177	45.	27.9	29.8	1		2300	277	21.	4.8	25.7
1		0625	78	48.	36.2	30.7	1		1445	178	45.	27.6	29.8	1		2305	278	21.	4.7	25.7
1		0630	79	48.	36.5	30.7	1		1450	179	45.	27.2	29.7	1		2310	279	21.	4.5	25.6
1		0635	80	48.	36.7	30.7	1		1455	180	45.	26.9	29.7	1		2315	280	20.	4.4	25.6
1		0640	81	49.	36.8	30.7	1		1500	181	45.	26.6	29.7	1		2320	281	20.	4.2	25.6
1		0645	82	49.	37.0	30.7	1		1505	182	44.	26.3	29.6	1		2325	282	20.	4.1	25.6
1		0650	83	49.	37.2	30.8	1		1510	183	44.	26.0	29.6	1		2330	283	20.	4.0	25.5
1		0655	84	49.	37.4	30.8	1		1515	184	44.	25.7	29.6	1		2335	284	20.	3.8	25.5
1		0700	85	49.	37.5	30.8	1		1520	185	44.	25.4	29.5	1		2340	285	20.	3.7	25.5
1		0705	86	49.	37.7	30.8	1		1525	186	44.	25.1	29.5	1		2345	286	19.	3.5	25.4
1		0710	87	49.	37.9	30.8	1		1530	187	44.	24.8	29.5	1		2350	287	19.	3.4	25.4
1		0715	88	49.	38.0	30.8	1		1535	188	44.	24.5	29.4	1		2355	288	19.	3.3	25.4
1		0720	89	49.	38.2	30.9	1		1540	189	43.	24.2	29.4	2		0000	289	19.	3.2	25.4
1		0725	90	49.	38.3	30.9	1		1545	190	43.	23.9	29.4	2		0005	290	19.	3.0	25.3
1		0730	91	49.	38.5	30.9	1		1550	191	43.	23.6	29.3	2		0010	291	19.	2.9	25.3
1		0735	92	49.	38.6	30.9	1		1555	192	43.	23.3	29.3	2		0015	292	18.	2.8	25.3
1		0740	93	49.	38.7	30.9	1		1600	193	43.	23.0	29.3	2		0020	293	18.	2.6	25.3
1		0745	94	49.	38.8	30.9	1		1605	194	43.	22.7	29.3	2		0025	294	18.	2.5	25.2
1		0750	95	49.	38.9	30.9	1		1610	195	43.	22.4	29.2	2		0030	295	18.	2.4	25.2
1		0755	96	49.	39.1	30.9	1		1615	196	42.	22.1	29.2	2		0035	296	18.	2.3	25.2
1		0800	97	49.	39.2	30.9	1		1620	197	42.	21.8	29.2	2		0040	297	18.	2.2	25.2
1		0805	98	49.	39.3	31.0	1		1625	198	42.	21.6	29.1	2		0045	298	17.	2.0	25.1
1		0810	99	49.	39.3	31.0	1		1630	199	42.	21.3	29.1	2		0050	299	17.	1.9	25.1
1		0815	100	49.	39.4	31.0	1		1635	200	42.	21.0	29.1	2		0055	300	17.	1.8	25.1

PEAK FLOW (CFS)	TIME (HR)		6-HR	MAXIMUM AVERAGE FLOW 24-HR	72-HR	24.92-HR
50.	9.58	(CFS)	49.	36.	35.	35.
		(INCHES)	.382	1.125	1.127	1.127
		(AC-FT)	24.	72.	72.	72.

PEAK STORAGE (AC-FT)	TIME (HR)	6-HR	MAXIMUM AVERAGE STORAGE 24-HR	72-HR	24.92-HR
40.	9.58	39.	21.	21.	21.

PEAK STAGE (FEET)	TIME (HR)	6-HR	MAXIMUM AVERAGE STAGE 24-HR	72-HR	24.92-HR
31.04	9.58	30.91	28.42	28.23	28.23

CUMULATIVE AREA = 1.20 SQ MI

HYDROGRAPH AT STATION DET2
PLAN 1, RATIO = .98

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	23.0	1		0820	101	49.	38.3	30.9	1		1640	201	40.	19.1	28.7
1		0005	2	0.	.0	23.0	1		0825	102	49.	38.4	30.9	1		1645	202	40.	18.9	28.7
1		0010	3	0.	.0	23.0	1		0830	103	49.	38.4	30.9	1		1650	203	39.	18.6	28.6
1		0015	4	0.	.0	23.0	1		0835	104	49.	38.5	30.9	1		1655	204	39.	18.3	28.6
1		0020	5	0.	.0	23.0	1		0840	105	49.	38.5	30.9	1		1700	205	39.	18.1	28.5
1		0025	6	0.	.0	23.1	1		0845	106	49.	38.6	30.9	1		1705	206	38.	17.8	28.4
1		0030	7	1.	.0	23.1	1		0850	107	49.	38.6	30.9	1		1710	207	38.	17.5	28.4
1		0035	8	2.	.1	23.2	1		0855	108	49.	38.7	30.9	1		1715	208	38.	17.3	28.3
1		0040	9	2.	.1	23.3	1		0900	109	49.	38.7	30.9	1		1720	209	37.	17.0	28.3
1		0045	10	3.	.1	23.4	1		0905	110	49.	38.7	30.9	1		1725	210	37.	16.8	28.2
1		0050	11	3.	.1	23.4	1		0910	111	49.	38.7	30.9	1		1730	211	37.	16.5	28.2
1		0055	12	3.	.1	23.4	1		0915	112	49.	38.7	30.9	1		1735	212	36.	16.3	28.1
1		0100	13	3.	.1	23.4	1		0920	113	49.	38.8	30.9	1		1740	213	36.	16.0	28.1
1		0105	14	3.	.1	23.4	1		0925	114	49.	38.8	30.9	1		1745	214	36.	15.8	28.0
1		0110	15	3.	.1	23.3	1		0930	115	49.	38.8	30.9	1		1750	215	35.	15.5	28.0
1		0115	16	3.	.1	23.3	1		0935	116	49.	38.8	30.9	1		1755	216	35.	15.3	27.9
1		0120	17	3.	.1	23.4	1		0940	117	49.	38.8	30.9	1		1800	217	35.	15.0	27.9
1		0125	18	3.	.1	23.4	1		0945	118	49.	38.7	30.9	1		1805	218	34.	14.8	27.8
1		0130	19	4.	.1	23.5	1		0950	119	49.	38.7	30.9	1		1810	219	34.	14.6	27.8
1		0135	20	5.	.2	23.6	1		0955	120	49.	38.7	30.9	1		1815	220	34.	14.3	27.7
1		0140	21	7.	.2	23.8	1		1000	121	49.	38.7	30.9	1		1820	221	33.	14.1	27.7
1		0145	22	8.	.3	24.0	1		1005	122	49.	38.7	30.9	1		1825	222	33.	13.9	27.6
1		0150	23	9.	.3	24.1	1		1010	123	49.	38.6	30.9	1		1830	223	33.	13.6	27.6
1		0155	24	9.	.4	24.1	1		1015	124	49.	38.5	30.9	1		1835	224	32.	13.4	27.5
1		0200	25	10.	.5	24.2	1		1020	125	49.	38.5	30.9	1		1840	225	32.	13.2	27.5
1		0205	26	10.	.5	24.2	1		1025	126	49.	38.4	30.9	1		1845	226	32.	13.0	27.4
1		0210	27	11.	.6	24.3	1		1030	127	49.	38.3	30.9	1		1850	227	32.	12.8	27.4
1		0215	28	11.	.7	24.3	1		1035	128	49.	38.2	30.9	1		1855	228	31.	12.5	27.3
1		0220	29	12.	.7	24.4	1		1040	129	49.	38.1	30.8	1		1900	229	31.	12.3	27.3
1		0225	30	12.	.8	24.5	1		1045	130	49.	38.0	30.8	1		1905	230	31.	12.1	27.3
1		0230	31	13.	1.0	24.6	1		1050	131	49.	37.9	30.8	1		1910	231	30.	11.9	27.2
1		0235	32	14.	1.1	24.7	1		1055	132	49.	37.8	30.8	1		1915	232	30.	11.7	27.2
1		0240	33	15.	1.2	24.8	1		1100	133	49.	37.7	30.8	1		1920	233	30.	11.5	27.1
1		0245	34	16.	1.4	24.9	1		1105	134	49.	37.5	30.8	1		1925	234	30.	11.3	27.1
1		0250	35	17.	1.5	25.0	1		1110	135	49.	37.4	30.8	1		1930	235	29.	11.1	27.0
1		0255	36	17.	1.6	25.0	1		1115	136	49.	37.2	30.8	1		1935	236	29.	10.9	27.0
1		0300	37	17.	1.8	25.1	1		1120	137	49.	37.1	30.7	1		1940	237	29.	10.7	26.9
1		0305	38	17.	2.0	25.1	1		1125	138	49.	36.9	30.7	1		1945	238	29.	10.5	26.9
1		0310	39	18.	2.2	25.2	1		1130	139	49.	36.8	30.7	1		1950	239	28.	10.3	26.9
1		0315	40	18.	2.4	25.2	1		1135	140	48.	36.6	30.7	1		1955	240	28.	10.1	26.8
1		0320	41	19.	2.9	25.3	1		1140	141	48.	36.4	30.7	1		2000	241	28.	9.9	26.8
1		0325	42	20.	3.7	25.5	1		1145	142	48.	36.2	30.7	1		2005	242	28.	9.7	26.7
1		0330	43	21.	4.8	25.7	1		1150	143	48.	36.0	30.6	1		2010	243	27.	9.5	26.7
1		0335	44	23.	6.5	26.1	1		1155	144	48.	35.8	30.6	1		2015	244	27.	9.3	26.7
1		0340	45	26.	8.6	26.5	1		1200	145	48.	35.6	30.6	1		2020	245	27.	9.1	26.6
1		0345	46	29.	10.9	27.0	1		1205	146	48.	35.4	30.6	1		2025	246	27.	9.0	26.6
1		0350	47	32.	13.1	27.5	1		1210	147	48.	35.2	30.6	1		2030	247	26.	8.8	26.5
1		0355	48	35.	15.2	27.9	1		1215	148	48.	34.9	30.5	1		2035	248	26.	8.6	26.5
1		0400	49	37.	17.1	28.3	1		1220	149	48.	34.7	30.5	1		2040	249	26.	8.4	26.5
1		0405	50	39.	18.7	28.6	1		1225	150	48.	34.4	30.5	1		2045	250	26.	8.2	26.4
1		0410	51	41.	20.0	28.9	1		1230	151	48.	34.2	30.5	1		2050	251	25.	8.1	26.4
1		0415	52	42.	21.1	29.1	1		1235	152	47.	33.9	30.4	1		2055	252	25.	7.9	26.4
1		0420	53	42.	22.1	29.2	1		1240	153	47.	33.6	30.4	1		2100	253	25.	7.7	26.3
1		0425	54	43.	22.9	29.3	1		1245	154	47.	33.4	30.4	1		2105	254	25.	7.6	26.3
1		0430	55	43.	23.6	29.4	1		1250	155	47.	33.1	30.3	1		2110	255	24.	7.4	26.3
1		0435	56	44.	24.4	29.4	1		1255	156	47.	32.8	30.3	1		2115	256	24.	7.2	26.2
1		0440	57	44.	25.1	29.5	1		1300	157	47.	32.5	30.3	1		2120	257	24.	7.1	26.2
1		0445	58	44.	25.9	29.6	1		1305	158	47.	32.2	30.3	1		2125	258	24.	6.9	26.1
1		0450	59	45.	26.7	29.7	1		1310	159	47.	31.8	30.2	1		2130	259	24.	6.7	26.1
1		0455	60	45.	27.5	29.8	1		1315	160	47.	31.5	30.2	1		2135	260	23.	6.6	26.1
1		0500	61	45.	28.3	29.9	1		1320	161	46.	31.2	30.2	1		2140	261	23.	6.4	26.0
1		0505	62	46.	29.1	29.9	1		1325	162	46.	30.9	30.1	1		2145	262	23.	6.2	26.0
1		0510	63	46.	29.8	30.0	1		1330	163	46.	30.6	30.1	1		2150	263	23.	6.1	26.0
1		0515	64	46.	30.5	30.1	1		1335	164	46.	30.2	30.1	1		2155	264	23.	5.9	25.9
1		0520	65	46.	31.0	30.1	1		1340	165	46.	29.9	30.0	1		2200	265	22.	5.8	25.9
1		0525	66	47.	31.5	30.2	1		1345	166	46.	29.6	30.0	1		2205	266	22.	5.6	25.9
1		0530	67	47.	32.0	30.2	1		1350	167	46.	29.3	30.0	1		2210	267	22.	5.5	25.9
1		0535	68	47.	32.4	30.3	1		1355	168	46.	29.0	29.9	1		2215	268	22.	5.3	25.8
1		0540	69	47.	32.7	30.3	1		1400	169	45.	28.7	29.9	1		2220	269	22.	5.2	25.8
1		0545	70	47.	33.1	30.3	1		1405	170	45.	28.3	29.9	1		2225	270	21.	5.0	25.8
1		0550	71	47.	33.4	30.4	1		1410	171	45.	28.0	29.8	1		2230	271	21.	4.9	25.7
1		0555	72	47.	33.7	30.4	1		1415	172	45.	27.7	29.8	1		2235	272	21.	4.7	25.7
1		0600	73	47.	34.0	30.4	1		1420	173	45.	27.4	29.8	1		2240	273	21.	4.6	25.7
1		0605	74	48.	34.2	30.5	1		1425	174	45.	27.1	29.7	1		2245	274	21.	4.4	25.6
1		0610	75	48.	34.5	30.5	1		1430	175	45.	26.8	29.7	1		2250	275	20.	4.3	25.6
1		0615	76	48.	34.7	30.5	1		1435	176	44.	26.5	29.7	1		2255	276	20.	4.2	25.6
1		0620	77	48.	35.0	30.5	1		1440	177	44.	26.2	29.6	1		2300	277	20.	4.0	25.5
1		0625	78	48.	35.2	30.6	1		1445	178	44.	25.9	29.6	1		2305	278	20.	3.9	25.5
1		0630	79	48.	35.4	30.6	1		1450	179	44.	25.6	29.6	1		2310	279	20.	3.8	25.5
1		0635	80	48.	35.6	30.6	1		1455	180	44.	25.3	29.5	1		2315	280	19.	3.6	25.5
1		0640	81	48.	35.8	30.6	1		1500	181	44.	25.0	29.5	1		2320	281	19.	3.5	25.4
1		0645	82	48.	35.9	30.6	1		1505	182	44.	24.7	29.5	1		2325	282	19.	3.4	25.4
1		0650	83	48.	36.1	30.6	1		1510	183	44.	24.4	29.4	1		2330	283	19.	3.2	25.4
1		0655	84	48.	36.3	30.7	1		1515	184	43.	24.1	29.4	1		2335	284	19.	3.1	25.3
1		0700	85	48.	36.5	30.7	1		1520	185	43.	23.8	29.4	1		2340	285	19.	3.0	25.3
1		0705	86	48.	36.6	30.7	1		1525	186	43.	23.5	29.3	1		2345	286	18.	2.8	25.3
1		0710	87	49.	36.8	30.7	1		1530	187	43.	23.2	29.3	1		2350	287	18.	2.7	25.3
1		0715	88	49.	36.9	30.7	1		1535	188	43.	22.9	29.3	1		2355	288	18.	2.6	25.2
1		0720	89	49.	37.1	30.7	1		1540	189	43.	22.6	29.2	2		0000	289	18.	2.5	25.2
1		0725	90	49.	37.2	30.8	1		1545	190	43.	22.3	29.2	2		0005	290	18.	2.3	25.2
1		0730	91	49.	37.3	30.8	1		1550	191	42.	22.0	29.2	2		0010	291	18.	2.2	25.2
1		0735	92	49.	37.4	30.8	1		1555	192	42.	21.7	29.1	2		0015	292	17.	2.1	25.1
1		0740	93	49.	37.6	30.8	1		1600	193	42.	21.4	29.1	2		0020	293	17.	2.0	25.1
1		0745	94	49.	37.7	30.8	1		1605	194	42.	21.1	29.1	2		0025	294	17.	1.9	25.1
1		0750	95	49.	37.8	30.8	1		1610	195	42.	20.8	29.0	2		0030	295	17.	1.7	25.1
1		0755	96	49.	37.9	30.8	1		1615	196	42.	20.6	29.0	2		0035	296	17.	1.6	25.0
1		0800	97	49.	38.0	30.8	1		1620	197	42.	20.3	29.0	2		0040	297	17.	1.5	25.0
1		0805	98	49.	38.1	30.8	1		1625	198	41.	20.0	28.9	2		0045	298	16.	1.4	25.0
1		0810	99	49.	38.1	30.8	1		1630	199	41.	19.7	28.9	2		0050	299	16.	1.3	24.9
1		0815	100	49.	38.2	30.9	1		1635	200	40.	19.4	28.8	2		0055	300	15.	1.2	24.8

PEAK FLOW (CFS)	TIME (HR)		6-HR	MAXIMUM AVERAGE FLOW 24-HR	72-HR	24.92-HR

(CFS)

			6-HR	24-HR	72-HR	24.92-HR
+ 49.	9.42	(CFS)	49.	35.	34.	34.
		(INCHES)	.378	1.100	1.102	1.102
		(AC-FT)	24.	70.	70.	70.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
39.	9.50	37.	20.	20.	20.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
30.91	9.50	30.78	28.27	28.08	28.08

CUMULATIVE AREA = 1.20 SQ MI

HYDROGRAPH AT STATION DET2
PLAN 1, RATIO = .97

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	23.0	1		0820	101	49.	37.7	30.8	1		1640	201	39.	18.4	28.6
1		0005	2	0.	.0	23.0	1		0825	102	49.	37.8	30.8	1		1645	202	39.	18.1	28.5
1		0010	3	0.	.0	23.0	1		0830	103	49.	37.8	30.8	1		1650	203	38.	17.9	28.5
1		0015	4	0.	.0	23.0	1		0835	104	49.	37.9	30.8	1		1655	204	38.	17.6	28.4
1		0020	5	0.	.0	23.0	1		0840	105	49.	37.9	30.8	1		1700	205	38.	17.3	28.4
1		0025	6	0.	.0	23.1	1		0845	106	49.	38.0	30.8	1		1705	206	37.	17.1	28.3
1		0030	7	1.	.0	23.1	1		0850	107	49.	38.0	30.8	1		1710	207	37.	16.8	28.2
1		0035	8	2.	.1	23.2	1		0855	108	49.	38.0	30.8	1		1715	208	37.	16.6	28.2
1		0040	9	2.	.1	23.3	1		0900	109	49.	38.1	30.8	1		1720	209	36.	16.3	28.1
1		0045	10	3.	.1	23.3	1		0905	110	49.	38.1	30.8	1		1725	210	36.	16.1	28.1
1		0050	11	3.	.1	23.4	1		0910	111	49.	38.1	30.8	1		1730	211	36.	15.8	28.0
1		0055	12	3.	.1	23.4	1		0915	112	49.	38.1	30.8	1		1735	212	35.	15.6	28.0
1		0100	13	3.	.1	23.4	1		0920	113	49.	38.1	30.8	1		1740	213	35.	15.3	27.9
1		0105	14	3.	.1	23.3	1		0925	114	49.	38.1	30.8	1		1745	214	35.	15.1	27.9
1		0110	15	3.	.1	23.3	1		0930	115	49.	38.1	30.8	1		1750	215	34.	14.9	27.8
1		0115	16	3.	.1	23.3	1		0935	116	49.	38.1	30.8	1		1755	216	34.	14.6	27.8
1		0120	17	3.	.1	23.3	1		0940	117	49.	38.1	30.8	1		1800	217	34.	14.4	27.7
1		0125	18	3.	.1	23.4	1		0945	118	49.	38.1	30.8	1		1805	218	33.	14.2	27.7
1		0130	19	4.	.1	23.5	1		0950	119	49.	38.1	30.8	1		1810	219	33.	13.9	27.6
1		0135	20	5.	.2	23.6	1		0955	120	49.	38.1	30.8	1		1815	220	33.	13.7	27.6
1		0140	21	7.	.2	23.8	1		1000	121	49.	38.0	30.8	1		1820	221	33.	13.5	27.5
1		0145	22	8.	.3	24.0	1		1005	122	49.	38.0	30.8	1		1825	222	32.	13.3	27.5
1		0150	23	9.	.3	24.1	1		1010	123	49.	37.9	30.8	1		1830	223	32.	13.0	27.4
1		0155	24	9.	.4	24.1	1		1015	124	49.	37.9	30.8	1		1835	224	32.	12.8	27.4
1		0200	25	10.	.5	24.2	1		1020	125	49.	37.8	30.8	1		1840	225	31.	12.6	27.4
1		0205	26	10.	.5	24.2	1		1025	126	49.	37.7	30.8	1		1845	226	31.	12.4	27.3
1		0210	27	11.	.6	24.3	1		1030	127	49.	37.6	30.8	1		1850	227	31.	12.2	27.3
1		0215	28	11.	.6	24.3	1		1035	128	49.	37.5	30.8	1		1855	228	31.	12.0	27.2
1		0220	29	11.	.7	24.4	1		1040	129	49.	37.4	30.8	1		1900	229	30.	11.7	27.2
1		0225	30	12.	.8	24.5	1		1045	130	49.	37.3	30.8	1		1905	230	30.	11.5	27.1
1		0230	31	13.	.9	24.6	1		1050	131	49.	37.2	30.8	1		1910	231	30.	11.3	27.1
1		0235	32	14.	1.1	24.7	1		1055	132	49.	37.1	30.7	1		1915	232	29.	11.1	27.0
1		0240	33	15.	1.2	24.8	1		1100	133	49.	36.9	30.7	1		1920	233	29.	10.9	27.0
1		0245	34	16.	1.3	24.9	1		1105	134	49.	36.8	30.7	1		1925	234	29.	10.7	27.0
1		0250	35	17.	1.5	25.0	1		1110	135	48.	36.6	30.7	1		1930	235	29.	10.5	26.9
1		0255	36	17.	1.6	25.0	1		1115	136	48.	36.5	30.7	1		1935	236	28.	10.3	26.9
1		0300	37	17.	1.7	25.1	1		1120	137	48.	36.3	30.7	1		1940	237	28.	10.1	26.8
1		0305	38	17.	1.9	25.1	1		1125	138	48.	36.2	30.7	1		1945	238	28.	9.9	26.8
1		0310	39	17.	2.1	25.1	1		1130	139	48.	36.0	30.6	1		1950	239	28.	9.8	26.8
1		0315	40	18.	2.4	25.2	1		1135	140	48.	35.8	30.6	1		1955	240	27.	9.6	26.7
1		0320	41	18.	2.8	25.3	1		1140	141	48.	35.6	30.6	1		2000	241	27.	9.4	26.7
1		0325	42	19.	3.6	25.4	1		1145	142	48.	35.4	30.6	1		2005	242	27.	9.2	26.6
1		0330	43	21.	4.7	25.7	1		1150	143	48.	35.2	30.6	1		2010	243	27.	9.0	26.6
1		0335	44	23.	6.3	26.0	1		1155	144	48.	35.0	30.5	1		2015	244	26.	8.8	26.6
1		0340	45	26.	8.4	26.5	1		1200	145	48.	34.8	30.5	1		2020	245	26.	8.6	26.5
1		0345	46	29.	10.6	26.9	1		1205	146	48.	34.6	30.5	1		2025	246	26.	8.5	26.5
1		0350	47	32.	12.9	27.4	1		1210	147	48.	34.3	30.5	1		2030	247	26.	8.3	26.4
1		0355	48	35.	15.0	27.9	1		1215	148	48.	34.1	30.4	1		2035	248	25.	8.1	26.4
1		0400	49	37.	16.8	28.2	1		1220	149	47.	33.9	30.4	1		2040	249	25.	7.9	26.4
1		0405	50	39.	18.3	28.6	1		1225	150	47.	33.6	30.4	1		2045	250	25.	7.8	26.3
1		0410	51	41.	19.6	28.8	1		1230	151	47.	33.3	30.4	1		2050	251	25.	7.6	26.3
1		0415	52	42.	20.8	29.0	1		1235	152	47.	33.1	30.3	1		2055	252	25.	7.4	26.3
1		0420	53	42.	21.7	29.1	1		1240	153	47.	32.8	30.3	1		2100	253	24.	7.3	26.2
1		0425	54	43.	22.5	29.2	1		1245	154	47.	32.5	30.3	1		2105	254	24.	7.1	26.2
1		0430	55	43.	23.3	29.3	1		1250	155	47.	32.2	30.3	1		2110	255	24.	6.9	26.2
1		0435	56	43.	24.0	29.4	1		1255	156	47.	31.9	30.2	1		2115	256	24.	6.8	26.1
1		0440	57	44.	24.7	29.5	1		1300	157	47.	31.6	30.2	1		2120	257	23.	6.6	26.1
1		0445	58	44.	25.5	29.6	1		1305	158	47.	31.3	30.2	1		2125	258	23.	6.4	26.1
1		0450	59	44.	26.3	29.6	1		1310	159	46.	31.0	30.1	1		2130	259	23.	6.3	26.0
1		0455	60	45.	27.1	29.7	1		1315	160	46.	30.6	30.1	1		2135	260	23.	6.1	26.0
1		0500	61	45.	27.9	29.8	1		1320	161	46.	30.3	30.1	1		2140	261	23.	6.0	26.0
1		0505	62	45.	28.6	29.9	1		1325	162	46.	30.0	30.0	1		2145	262	22.	5.8	25.9
1		0510	63	46.	29.4	30.0	1		1330	163	46.	29.7	30.0	1		2150	263	22.	5.7	25.9
1		0515	64	46.	30.0	30.0	1		1335	164	46.	29.4	30.0	1		2155	264	22.	5.5	25.9
1		0520	65	46.	30.6	30.1	1		1340	165	46.	29.1	29.9	1		2200	265	22.	5.4	25.8
1		0525	66	46.	31.1	30.1	1		1345	166	45.	28.7	29.9	1		2205	266	22.	5.2	25.8
1		0530	67	47.	31.5	30.2	1		1350	167	45.	28.4	29.9	1		2210	267	21.	5.1	25.8
1		0535	68	47.	31.9	30.2	1		1355	168	45.	28.1	29.8	1		2215	268	21.	4.9	25.7
1		0540	69	47.	32.2	30.3	1		1400	169	45.	27.8	29.8	1		2220	269	21.	4.8	25.7
1		0545	70	47.	32.6	30.3	1		1405	170	45.	27.5	29.8	1		2225	270	21.	4.6	25.7
1		0550	71	47.	32.9	30.3	1		1410	171	45.	27.2	29.7	1		2230	271	21.	4.5	25.6
1		0555	72	47.	33.2	30.4	1		1415	172	45.	26.9	29.7	1		2235	272	20.	4.3	25.6
1		0600	73	47.	33.4	30.4	1		1420	173	45.	26.6	29.7	1		2240	273	20.	4.2	25.6
1		0605	74	47.	33.7	30.4	1		1425	174	44.	26.3	29.6	1		2245	274	20.	4.1	25.6
1		0610	75	47.	34.0	30.4	1		1430	175	44.	26.0	29.6	1		2250	275	20.	3.9	25.5
1		0615	76	48.	34.2	30.5	1		1435	176	44.	25.7	29.6	1		2255	276	20.	3.8	25.5
1		0620	77	48.	34.4	30.5	1		1440	177	44.	25.3	29.5	1		2300	277	20.	3.7	25.5
1		0625	78	48.	34.7	30.5	1		1445	178	44.	25.0	29.5	1		2305	278	19.	3.5	25.4
1		0630	79	48.	34.9	30.5	1		1450	179	44.	24.7	29.5	1		2310	279	19.	3.4	25.4
1		0635	80	48.	35.0	30.5	1		1455	180	44.	24.4	29.4	1		2315	280	19.	3.3	25.4
1		0640	81	48.	35.2	30.6	1		1500	181	43.	24.1	29.4	1		2320	281	19.	3.1	25.4
1		0645	82	48.	35.4	30.6	1		1505	182	43.	23.8	29.4	1		2325	282	19.	3.0	25.3
1		0650	83	48.	35.6	30.6	1		1510	183	43.	23.5	29.3	1		2330	283	18.	2.9	25.3
1		0655	84	48.	35.7	30.6	1		1515	184	43.	23.3	29.3	1		2335	284	18.	2.7	25.3
1		0700	85	48.	35.9	30.6	1		1520	185	43.	23.0	29.3	1		2340	285	18.	2.6	25.2
1		0705	86	48.	36.1	30.6	1		1525	186	43.	22.7	29.2	1		2345	286	18.	2.5	25.2
1		0710	87	48.	36.2	30.7	1		1530	187	43.	22.4	29.2	1		2350	287	18.	2.4	25.2
1		0715	88	48.	36.4	30.7	1		1535	188	42.	22.1	29.2	1		2355	288	18.	2.2	25.2
1		0720	89	48.	36.5	30.7	1		1540	189	42.	21.8	29.2	2		0000	289	17.	2.1	25.1
1		0725	90	48.	36.6	30.7	1		1545	190	42.	21.5	29.1	2		0005	290	17.	2.0	25.1
1		0730	91	49.	36.8	30.7	1		1550	191	42.	21.2	29.1	2		0010	291	17.	1.9	25.1
1		0735	92	49.	36.9	30.7	1		1555	192	42.	20.9	29.1	2		0015	292	17.	1.8	25.1
1		0740	93	49.	37.0	30.7	1		1600	193	42.	20.6	29.0	2		0020	293	17.	1.7	25.0
1		0745	94	49.	37.1	30.7	1		1605	194	42.	20.3	29.0	2		0025	294	17.	1.5	25.0
1		0750	95	49.	37.2	30.8	1		1610	195	41.	20.1	28.9	2		0030	295	16.	1.4	25.0
1		0755	96	49.	37.3	30.8	1		1615	196	41.	19.8	28.9	2		0035	296	16.	1.3	24.9
1		0800	97	49.	37.4	30.8	1		1620	197	41.	19.5	28.8	2		0040	297	15.	1.2	24.8
1		0805	98	49.	37.5	30.8	1		1625	198	40.	19.2	28.7	2		0045	298	14.	1.1	24.7
1		0810	99	49.	37.6	30.8	1		1630	199	40.	18.9	28.7	2		0050	299	14.	1.0	24.6
1		0815	100	49.	37.6	30.8	1		1635	200	39.	18.7	28.6	2		0055	300	13.	.9	24.6

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
49.	9.42	(CFS) 49.	35.	34.	34.
		(INCHES) .377	1.087	1.088	1.088
		(AC-FT) 24.	69.	70.	70.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
38.	9.42	37.	20.	19.	19.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
30.85	9.42	30.72	28.19	28.00	28.00

CUMULATIVE AREA = 1.20 SQ MI

HYDROGRAPH AT STATION DET2
PLAN 1, RATIO = .93

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	23.0	1		0820	101	48.	35.3	30.6	1		1640	201	35.	15.6	28.0
1		0005	2	0.	.0	23.0	1		0825	102	48.	35.3	30.6	1		1645	202	35.	15.3	27.9
1		0010	3	0.	.0	23.0	1		0830	103	48.	35.4	30.6	1		1650	203	35.	15.1	27.9
1		0015	4	0.	.0	23.0	1		0835	104	48.	35.4	30.6	1		1655	204	34.	14.8	27.8
1		0020	5	0.	.0	23.0	1		0840	105	48.	35.5	30.6	1		1700	205	34.	14.6	27.8
1		0025	6	0.	.0	23.0	1		0845	106	48.	35.5	30.6	1		1705	206	34.	14.4	27.7
1		0030	7	1.	.0	23.1	1		0850	107	48.	35.5	30.6	1		1710	207	33.	14.1	27.7
1		0035	8	1.	.0	23.2	1		0855	108	48.	35.5	30.6	1		1715	208	33.	13.9	27.6
1		0040	9	2.	.1	23.2	1		0900	109	48.	35.5	30.6	1		1720	209	33.	13.7	27.6
1		0045	10	2.	.1	23.3	1		0905	110	48.	35.6	30.6	1		1725	210	33.	13.5	27.5
1		0050	11	3.	.1	23.3	1		0910	111	48.	35.6	30.6	1		1730	211	32.	13.2	27.5
1		0055	12	3.	.1	23.3	1		0915	112	48.	35.6	30.6	1		1735	212	32.	13.0	27.4
1		0100	13	2.	.1	23.3	1		0920	113	48.	35.6	30.6	1		1740	213	32.	12.8	27.4
1		0105	14	2.	.1	23.3	1		0925	114	48.	35.6	30.6	1		1745	214	31.	12.6	27.4
1		0110	15	2.	.1	23.2	1		0930	115	48.	35.5	30.6	1		1750	215	31.	12.4	27.3
1		0115	16	2.	.1	23.2	1		0935	116	48.	35.5	30.6	1		1755	216	31.	12.2	27.3
1		0120	17	2.	.1	23.3	1		0940	117	48.	35.5	30.6	1		1800	217	31.	11.9	27.2
1		0125	18	2.	.1	23.3	1		0945	118	48.	35.5	30.6	1		1805	218	30.	11.7	27.2
1		0130	19	3.	.1	23.4	1		0950	119	48.	35.4	30.6	1		1810	219	30.	11.5	27.1
1		0135	20	4.	.1	23.5	1		0955	120	48.	35.4	30.6	1		1815	220	30.	11.3	27.1
1		0140	21	6.	.2	23.7	1		1000	121	48.	35.3	30.6	1		1820	221	29.	11.1	27.0
1		0145	22	7.	.2	23.9	1		1005	122	48.	35.2	30.6	1		1825	222	29.	10.9	27.0
1		0150	23	8.	.3	24.0	1		1010	123	48.	35.2	30.6	1		1830	223	29.	10.7	27.0
1		0155	24	9.	.3	24.1	1		1015	124	48.	35.1	30.5	1		1835	224	29.	10.5	26.9
1		0200	25	9.	.4	24.1	1		1020	125	48.	35.0	30.5	1		1840	225	28.	10.3	26.9
1		0205	26	10.	.4	24.2	1		1025	126	48.	34.9	30.5	1		1845	226	28.	10.1	26.8
1		0210	27	10.	.5	24.2	1		1030	127	48.	34.8	30.5	1		1850	227	28.	9.9	26.8
1		0215	28	10.	.5	24.2	1		1035	128	48.	34.6	30.5	1		1855	228	28.	9.7	26.8
1		0220	29	11.	.6	24.3	1		1040	129	48.	34.5	30.5	1		1900	229	27.	9.6	26.7
1		0225	30	11.	.7	24.4	1		1045	130	48.	34.4	30.5	1		1905	230	27.	9.4	26.7
1		0230	31	12.	.8	24.4	1		1050	131	48.	34.2	30.5	1		1910	231	27.	9.2	26.6
1		0235	32	13.	.9	24.5	1		1055	132	48.	34.1	30.4	1		1915	232	27.	9.0	26.6
1		0240	33	14.	1.0	24.6	1		1100	133	47.	33.9	30.4	1		1920	233	26.	8.8	26.6
1		0245	34	14.	1.1	24.7	1		1105	134	47.	33.8	30.4	1		1925	234	26.	8.6	26.5
1		0250	35	15.	1.3	24.9	1		1110	135	47.	33.6	30.4	1		1930	235	26.	8.5	26.5
1		0255	36	16.	1.4	25.0	1		1115	136	47.	33.4	30.4	1		1935	236	26.	8.3	26.4
1		0300	37	17.	1.5	25.0	1		1120	137	47.	33.3	30.4	1		1940	237	25.	8.1	26.4
1		0305	38	17.	1.7	25.0	1		1125	138	47.	33.1	30.3	1		1945	238	25.	7.9	26.4
1		0310	39	17.	1.8	25.1	1		1130	139	47.	32.9	30.3	1		1950	239	25.	7.8	26.3
1		0315	40	17.	2.1	25.1	1		1135	140	47.	32.7	30.3	1		1955	240	25.	7.6	26.3
1		0320	41	18.	2.5	25.2	1		1140	141	47.	32.5	30.3	1		2000	241	25.	7.4	26.3
1		0325	42	19.	3.2	25.4	1		1145	142	47.	32.2	30.3	1		2005	242	24.	7.3	26.2
1		0330	43	20.	4.3	25.6	1		1150	143	47.	32.0	30.2	1		2010	243	24.	7.1	26.2
1		0335	44	22.	5.8	25.9	1		1155	144	47.	31.8	30.2	1		2015	244	24.	6.9	26.2
1		0340	45	25.	7.7	26.3	1		1200	145	47.	31.6	30.2	1		2020	245	24.	6.8	26.1
1		0345	46	28.	9.8	26.8	1		1205	146	47.	31.3	30.2	1		2025	246	23.	6.6	26.1
1		0350	47	30.	11.9	27.2	1		1210	147	46.	31.0	30.1	1		2030	247	23.	6.4	26.1
1		0355	48	33.	13.9	27.6	1		1215	148	46.	30.8	30.1	1		2035	248	23.	6.3	26.0
1		0400	49	35.	15.6	28.0	1		1220	149	46.	30.5	30.1	1		2040	249	23.	6.1	26.0
1		0405	50	37.	17.1	28.3	1		1225	150	46.	30.2	30.1	1		2045	250	23.	6.0	26.0
1		0410	51	39.	18.3	28.6	1		1230	151	46.	29.9	30.0	1		2050	251	22.	5.8	25.9
1		0415	52	40.	19.4	28.8	1		1235	152	46.	29.7	30.0	1		2055	252	22.	5.7	25.9
1		0420	53	42.	20.3	29.0	1		1240	153	46.	29.3	30.0	1		2100	253	22.	5.5	25.9
1		0425	54	42.	21.1	29.1	1		1245	154	46.	29.0	29.9	1		2105	254	22.	5.4	25.8
1		0430	55	42.	21.8	29.1	1		1250	155	45.	28.7	29.9	1		2110	255	22.	5.2	25.8
1		0435	56	43.	22.4	29.2	1		1255	156	45.	28.4	29.9	1		2115	256	21.	5.1	25.8
1		0440	57	43.	23.1	29.3	1		1300	157	45.	28.1	29.8	1		2120	257	21.	4.9	25.7
1		0445	58	43.	23.9	29.4	1		1305	158	45.	27.8	29.8	1		2125	258	21.	4.8	25.7
1		0450	59	44.	24.6	29.5	1		1310	159	45.	27.5	29.8	1		2130	259	21.	4.6	25.7
1		0455	60	44.	25.4	29.5	1		1315	160	45.	27.2	29.7	1		2135	260	21.	4.5	25.6
1		0500	61	44.	26.1	29.6	1		1320	161	45.	26.9	29.7	1		2140	261	20.	4.3	25.6
1		0505	62	45.	26.9	29.7	1		1325	162	45.	26.6	29.7	1		2145	262	20.	4.2	25.6
1		0510	63	45.	27.6	29.8	1		1330	163	44.	26.2	29.6	1		2150	263	20.	4.1	25.6
1		0515	64	45.	28.2	29.8	1		1335	164	44.	25.9	29.6	1		2155	264	20.	3.9	25.5
1		0520	65	45.	28.7	29.9	1		1340	165	44.	25.6	29.6	1		2200	265	20.	3.8	25.5
1		0525	66	46.	29.2	30.0	1		1345	166	44.	25.3	29.5	1		2205	266	20.	3.6	25.5
1		0530	67	46.	29.6	30.0	1		1350	167	44.	25.0	29.5	1		2210	267	19.	3.5	25.4
1		0535	68	46.	30.0	30.0	1		1355	168	44.	24.7	29.5	1		2215	268	19.	3.4	25.4
1		0540	69	46.	30.3	30.1	1		1400	169	44.	24.4	29.4	1		2220	269	19.	3.3	25.4
1		0545	70	46.	30.6	30.1	1		1405	170	43.	24.1	29.4	1		2225	270	19.	3.1	25.4
1		0550	71	46.	30.9	30.1	1		1410	171	43.	23.8	29.4	1		2230	271	19.	3.0	25.3
1		0555	72	46.	31.2	30.2	1		1415	172	43.	23.5	29.3	1		2235	272	18.	2.9	25.3
1		0600	73	47.	31.4	30.2	1		1420	173	43.	23.2	29.3	1		2240	273	18.	2.7	25.3
1		0605	74	47.	31.7	30.2	1		1425	174	43.	22.9	29.3	1		2245	274	18.	2.6	25.2
1		0610	75	47.	31.9	30.2	1		1430	175	43.	22.6	29.2	1		2250	275	18.	2.5	25.2
1		0615	76	47.	32.2	30.3	1		1435	176	43.	22.4	29.2	1		2255	276	18.	2.4	25.2
1		0620	77	47.	32.4	30.3	1		1440	177	42.	22.1	29.2	1		2300	277	18.	2.2	25.2
1		0625	78	47.	32.6	30.3	1		1445	178	42.	21.8	29.1	1		2305	278	17.	2.1	25.1
1		0630	79	47.	32.8	30.3	1		1450	179	42.	21.5	29.1	1		2310	279	17.	2.0	25.1
1		0635	80	47.	32.9	30.3	1		1455	180	42.	21.2	29.1	1		2315	280	17.	1.9	25.1
1		0640	81	47.	33.1	30.3	1		1500	181	42.	20.9	29.1	1		2320	281	17.	1.8	25.1
1		0645	82	47.	33.3	30.4	1		1505	182	42.	20.6	29.0	1		2325	282	17.	1.6	25.0
1		0650	83	47.	33.4	30.4	1		1510	183	42.	20.3	29.0	1		2330	283	17.	1.5	25.0
1		0655	84	47.	33.6	30.4	1		1515	184	41.	20.0	28.9	1		2335	284	16.	1.4	25.0
1		0700	85	47.	33.7	30.4	1		1520	185	41.	19.8	28.9	1		2340	285	16.	1.3	24.9
1		0705	86	47.	33.9	30.4	1		1525	186	40.	19.5	28.8	1		2345	286	15.	1.2	24.8
1		0710	87	48.	34.0	30.4	1		1530	187	40.	19.2	28.7	1		2350	287	14.	1.1	24.7
1		0715	88	48.	34.1	30.5	1		1535	188	40.	18.9	28.7	1		2355	288	14.	1.0	24.6
1		0720	89	48.	34.3	30.5	1		1540	189	39.	18.7	28.6	2		0000	289	13.	.9	24.6
1		0725	90	48.	34.4	30.5	1		1545	190	39.	18.4	28.6	2		0005	290	12.	.8	24.5
1		0730	91	48.	34.5	30.5	1		1550	191	39.	18.1	28.5	2		0010	291	12.	.7	24.4
1		0735	92	48.	34.6	30.5	1		1555	192	38.	17.8	28.5	2		0015	292	11.	.7	24.3
1		0740	93	48.	34.7	30.5	1		1600	193	38.	17.6	28.4	2		0020	293	11.	.6	24.3
1		0745	94	48.	34.8	30.5	1		1605	194	38.	17.3	28.4	2		0025	294	10.	.5	24.2
1		0750	95	48.	34.9	30.5	1		1610	195	37.	17.1	28.3	2		0030	295	10.	.5	24.2
1		0755	96	48.	35.0	30.5	1		1615	196	37.	16.8	28.2	2		0035	296	9.	.4	24.1
1		0800	97	48.	35.0	30.5	1		1620	197	37.	16.6	28.2	2		0040	297	9.	.3	24.1
1		0805	98	48.	35.1	30.5	1		1625	198	36.	16.3	28.1	2		0045	298	8.	.3	24.0
1		0810	99	48.	35.2	30.6	1		1630	199	36.	16.1	28.1	2		0050	299	7.	.2	23.8
1		0815	100	48.	35.2	30.6	1		1635	200	36.	15.8	28.0	2		0055	300	6.	.2	23.7

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 48.	9.17		48.	33.	32.	32.
		(INCHES)	.369	1.030	1.031	1.031
		(AC-FT)	24.	66.	66.	66.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
36.	9.25	34.	18.	17.	17.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
30.59	9.25	30.46	27.86	27.68	27.68

CUMULATIVE AREA = 1.20 SQ MI

HYDROGRAPH AT STATION DET2
PLAN 1, RATIO = .91

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	23.0	1		0820	101	48.	34.1	30.4	1		1640	201	34.	14.2	27.7
1		0005	2	0.	.0	23.0	1		0825	102	48.	34.1	30.4	1		1645	202	33.	14.0	27.7
1		0010	3	0.	.0	23.0	1		0830	103	48.	34.2	30.5	1		1650	203	33.	13.8	27.6
1		0015	4	0.	.0	23.0	1		0835	104	48.	34.2	30.5	1		1655	204	33.	13.6	27.6
1		0020	5	0.	.0	23.0	1		0840	105	48.	34.2	30.5	1		1700	205	32.	13.3	27.5
1		0025	6	0.	.0	23.0	1		0845	106	48.	34.3	30.5	1		1705	206	32.	13.1	27.5
1		0030	7	1.	.0	23.1	1		0850	107	48.	34.3	30.5	1		1710	207	32.	12.9	27.4
1		0035	8	1.	.0	23.2	1		0855	108	48.	34.3	30.5	1		1715	208	31.	12.7	27.4
1		0040	9	2.	.1	23.2	1		0900	109	48.	34.3	30.5	1		1720	209	31.	12.5	27.3
1		0045	10	2.	.1	23.3	1		0905	110	48.	34.3	30.5	1		1725	210	31.	12.3	27.3
1		0050	11	2.	.1	23.3	1		0910	111	48.	34.3	30.5	1		1730	211	31.	12.0	27.2
1		0055	12	2.	.1	23.3	1		0915	112	48.	34.3	30.5	1		1735	212	30.	11.8	27.2
1		0100	13	2.	.1	23.3	1		0920	113	48.	34.3	30.5	1		1740	213	30.	11.6	27.1
1		0105	14	2.	.1	23.2	1		0925	114	48.	34.3	30.5	1		1745	214	30.	11.4	27.1
1		0110	15	2.	.1	23.2	1		0930	115	48.	34.3	30.5	1		1750	215	30.	11.2	27.1
1		0115	16	2.	.1	23.2	1		0935	116	48.	34.2	30.5	1		1755	216	29.	11.0	27.0
1		0120	17	2.	.1	23.2	1		0940	117	48.	34.2	30.5	1		1800	217	29.	10.8	27.0
1		0125	18	2.	.1	23.3	1		0945	118	48.	34.1	30.5	1		1805	218	29.	10.6	26.9
1		0130	19	3.	.1	23.3	1		0950	119	48.	34.1	30.4	1		1810	219	28.	10.4	26.9
1		0135	20	4.	.1	23.5	1		0955	120	48.	34.0	30.4	1		1815	220	28.	10.2	26.9
1		0140	21	5.	.2	23.6	1		1000	121	47.	33.9	30.4	1		1820	221	28.	10.0	26.8
1		0145	22	7.	.2	23.8	1		1005	122	47.	33.8	30.4	1		1825	222	28.	9.8	26.8
1		0150	23	8.	.3	24.0	1		1010	123	47.	33.8	30.4	1		1830	223	27.	9.6	26.7
1		0155	24	9.	.3	24.0	1		1015	124	47.	33.7	30.4	1		1835	224	27.	9.5	26.7
1		0200	25	9.	.4	24.1	1		1020	125	47.	33.5	30.4	1		1840	225	27.	9.3	26.7
1		0205	26	9.	.4	24.1	1		1025	126	47.	33.4	30.4	1		1845	226	27.	9.1	26.6
1		0210	27	10.	.4	24.2	1		1030	127	47.	33.3	30.4	1		1850	227	26.	8.9	26.6
1		0215	28	10.	.5	24.2	1		1035	128	47.	33.2	30.4	1		1855	228	26.	8.7	26.5
1		0220	29	10.	.5	24.2	1		1040	129	47.	33.0	30.3	1		1900	229	26.	8.5	26.5
1		0225	30	11.	.6	24.3	1		1045	130	47.	32.9	30.3	1		1905	230	26.	8.4	26.5
1		0230	31	11.	.7	24.4	1		1050	131	47.	32.8	30.3	1		1910	231	26.	8.2	26.4
1		0235	32	12.	.8	24.5	1		1055	132	47.	32.6	30.3	1		1915	232	25.	8.0	26.4
1		0240	33	13.	.9	24.6	1		1100	133	47.	32.4	30.3	1		1920	233	25.	7.8	26.3
1		0245	34	14.	1.1	24.7	1		1105	134	47.	32.3	30.3	1		1925	234	25.	7.7	26.3
1		0250	35	15.	1.2	24.8	1		1110	135	47.	32.1	30.2	1		1930	235	25.	7.5	26.3
1		0255	36	16.	1.3	24.9	1		1115	136	47.	31.9	30.2	1		1935	236	24.	7.3	26.2
1		0300	37	16.	1.4	25.0	1		1120	137	47.	31.7	30.2	1		1940	237	24.	7.2	26.2
1		0305	38	17.	1.5	25.0	1		1125	138	47.	31.5	30.2	1		1945	238	24.	7.0	26.2
1		0310	39	17.	1.7	25.1	1		1130	139	47.	31.3	30.2	1		1950	239	24.	6.8	26.1
1		0315	40	17.	1.9	25.1	1		1135	140	46.	31.1	30.1	1		1955	240	24.	6.7	26.1
1		0320	41	18.	2.3	25.2	1		1140	141	46.	30.9	30.1	1		2000	241	23.	6.5	26.1
1		0325	42	19.	3.0	25.3	1		1145	142	46.	30.6	30.1	1		2005	242	23.	6.3	26.0
1		0330	43	20.	4.0	25.5	1		1150	143	46.	30.4	30.1	1		2010	243	23.	6.2	26.0
1		0335	44	22.	5.5	25.8	1		1155	144	46.	30.2	30.1	1		2015	244	23.	6.0	26.0
1		0340	45	24.	7.4	26.2	1		1200	145	46.	29.9	30.0	1		2020	245	22.	5.9	25.9
1		0345	46	27.	9.4	26.7	1		1205	146	46.	29.6	30.0	1		2025	246	22.	5.7	25.9
1		0350	47	30.	11.5	27.1	1		1210	147	46.	29.4	30.0	1		2030	247	22.	5.6	25.9
1		0355	48	32.	13.4	27.5	1		1215	148	46.	29.1	29.9	1		2035	248	22.	5.4	25.8
1		0400	49	35.	15.0	27.9	1		1220	149	46.	28.8	29.9	1		2040	249	22.	5.3	25.8
1		0405	50	36.	16.5	28.2	1		1225	150	45.	28.5	29.9	1		2045	250	21.	5.1	25.8
1		0410	51	38.	17.7	28.4	1		1230	151	45.	28.2	29.9	1		2050	251	21.	5.0	25.7
1		0415	52	39.	18.7	28.6	1		1235	152	45.	27.9	29.8	1		2055	252	21.	4.8	25.7
1		0420	53	41.	19.6	28.8	1		1240	153	45.	27.6	29.8	1		2100	253	21.	4.7	25.7
1		0425	54	42.	20.3	29.0	1		1245	154	45.	27.3	29.7	1		2105	254	21.	4.5	25.7
1		0430	55	42.	21.0	29.1	1		1250	155	45.	27.0	29.7	1		2110	255	20.	4.4	25.6
1		0435	56	42.	21.7	29.1	1		1255	156	45.	26.7	29.7	1		2115	256	20.	4.3	25.6
1		0440	57	43.	22.4	29.2	1		1300	157	44.	26.4	29.6	1		2120	257	20.	4.1	25.6
1		0445	58	43.	23.1	29.3	1		1305	158	44.	26.1	29.6	1		2125	258	20.	4.0	25.5
1		0450	59	43.	23.8	29.4	1		1310	159	44.	25.8	29.6	1		2130	259	20.	3.8	25.5
1		0455	60	44.	24.6	29.5	1		1315	160	44.	25.5	29.6	1		2135	260	20.	3.7	25.5
1		0500	61	44.	25.3	29.5	1		1320	161	44.	25.2	29.5	1		2140	261	19.	3.6	25.5
1		0505	62	44.	26.0	29.6	1		1325	162	44.	24.9	29.5	1		2145	262	19.	3.4	25.4
1		0510	63	45.	26.7	29.7	1		1330	163	44.	24.6	29.5	1		2150	263	19.	3.3	25.4
1		0515	64	45.	27.3	29.7	1		1335	164	43.	24.3	29.4	1		2155	264	19.	3.2	25.4
1		0520	65	45.	27.8	29.8	1		1340	165	43.	24.0	29.4	1		2200	265	19.	3.0	25.3
1		0525	66	45.	28.2	29.9	1		1345	166	43.	23.7	29.4	1		2205	266	19.	2.9	25.3
1		0530	67	45.	28.6	29.9	1		1350	167	43.	23.4	29.3	1		2210	267	18.	2.8	25.3
1		0535	68	46.	29.0	29.9	1		1355	168	43.	23.1	29.3	1		2215	268	18.	2.7	25.3
1		0540	69	46.	29.3	30.0	1		1400	169	43.	22.8	29.3	1		2220	269	18.	2.5	25.2
1		0545	70	46.	29.6	30.0	1		1405	170	43.	22.5	29.2	1		2225	270	18.	2.4	25.2
1		0550	71	46.	29.9	30.0	1		1410	171	43.	22.2	29.2	1		2230	271	18.	2.3	25.2
1		0555	72	46.	30.2	30.1	1		1415	172	42.	21.9	29.2	1		2235	272	18.	2.2	25.2
1		0600	73	46.	30.4	30.1	1		1420	173	42.	21.6	29.1	1		2240	273	17.	2.1	25.1
1		0605	74	46.	30.7	30.1	1		1425	174	42.	21.3	29.1	1		2245	274	17.	1.9	25.1
1		0610	75	46.	30.9	30.1	1		1430	175	42.	21.0	29.1	1		2250	275	17.	1.8	25.1
1		0615	76	46.	31.1	30.2	1		1435	176	42.	20.7	29.0	1		2255	276	17.	1.7	25.1
1		0620	77	47.	31.3	30.2	1		1440	177	42.	20.4	29.0	1		2300	277	17.	1.6	25.0
1		0625	78	47.	31.5	30.2	1		1445	178	41.	20.2	28.9	1		2305	278	17.	1.5	25.0
1		0630	79	47.	31.7	30.2	1		1450	179	41.	19.9	28.9	1		2310	279	16.	1.4	24.9
1		0635	80	47.	31.9	30.2	1		1455	180	41.	19.6	28.8	1		2315	280	15.	1.2	24.8
1		0640	81	47.	32.1	30.2	1		1500	181	40.	19.3	28.8	1		2320	281	15.	1.1	24.8
1		0645	82	47.	32.2	30.3	1		1505	182	40.	19.0	28.7	1		2325	282	14.	1.0	24.7
1		0650	83	47.	32.4	30.3	1		1510	183	40.	18.8	28.7	1		2330	283	13.	1.0	24.6
1		0655	84	47.	32.5	30.3	1		1515	184	39.	18.5	28.6	1		2335	284	13.	.9	24.5
1		0700	85	47.	32.7	30.3	1		1520	185	39.	18.2	28.5	1		2340	285	12.	.8	24.4
1		0705	86	47.	32.8	30.3	1		1525	186	38.	18.0	28.5	1		2345	286	11.	.7	24.4
1		0710	87	47.	32.9	30.3	1		1530	187	38.	17.7	28.4	1		2350	287	11.	.6	24.3
1		0715	88	47.	33.0	30.3	1		1535	188	38.	17.4	28.4	1		2355	288	10.	.6	24.3
1		0720	89	47.	33.2	30.4	1		1540	189	37.	17.2	28.3	2		0000	289	10.	.5	24.2
1		0725	90	47.	33.3	30.4	1		1545	190	37.	16.9	28.3	2		0005	290	9.	.4	24.1
1		0730	91	47.	33.4	30.4	1		1550	191	37.	16.7	28.2	2		0010	291	9.	.4	24.1
1		0735	92	47.	33.5	30.4	1		1555	192	36.	16.4	28.2	2		0015	292	9.	.3	24.0
1		0740	93	47.	33.6	30.4	1		1600	193	36.	16.2	28.1	2		0020	293	8.	.2	23.9
1		0745	94	47.	33.6	30.4	1		1605	194	36.	15.9	28.1	2		0025	294	6.	.2	23.7
1		0750	95	47.	33.7	30.4	1		1610	195	35.	15.7	28.0	2		0030	295	5.	.1	23.6
1		0755	96	47.	33.8	30.4	1		1615	196	35.	15.4	28.0	2		0035	296	4.	.1	23.5
1		0800	97	47.	33.9	30.4	1		1620	197	35.	15.2	27.9	2		0040	297	3.	.1	23.4
1		0805	98	47.	33.9	30.4	1		1625	198	34.	15.0	27.9	2		0045	298	2.	.1	23.3
1		0810	99	47.	34.0	30.4	1		1630	199	34.	14.7	27.8	2		0050	299	2.	.1	23.2
1		0815	100	48.	34.0	30.4	1		1635	200	34.	14.5	27.8	2		0055	300	2.	.0	23.2

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 48.	9.08		47.	32.	31.	31.
		(INCHES)	.366	.998	.999	.999
		(AC-FT)	23.	64.	64.	64.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
34.	9.17	33.	17.	16.	16.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				

30.47 9.17 30.34 27.68 27.51 27.51

CUMULATIVE AREA = 1.20 SQ MI

HYDROGRAPH AT STATION DET2
PLAN 1, RATIO = .90

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	23.0	1		0820	101	47.	33.5	30.4	1		1640	201	33.	13.6	27.6
1		0005	2	0.	.0	23.0	1		0825	102	47.	33.5	30.4	1		1645	202	32.	13.4	27.5
1		0010	3	0.	.0	23.0	1		0830	103	47.	33.6	30.4	1		1650	203	32.	13.2	27.5
1		0015	4	0.	.0	23.0	1		0835	104	47.	33.6	30.4	1		1655	204	32.	12.9	27.4
1		0020	5	0.	.0	23.0	1		0840	105	47.	33.6	30.4	1		1700	205	32.	12.7	27.4
1		0025	6	0.	.0	23.0	1		0845	106	47.	33.6	30.4	1		1705	206	31.	12.5	27.3
1		0030	7	1.	.0	23.1	1		0850	107	47.	33.7	30.4	1		1710	207	31.	12.3	27.3
1		0035	8	1.	.0	23.2	1		0855	108	47.	33.7	30.4	1		1715	208	31.	12.1	27.2
1		0040	9	2.	.1	23.2	1		0900	109	47.	33.7	30.4	1		1720	209	30.	11.9	27.2
1		0045	10	2.	.1	23.3	1		0905	110	47.	33.7	30.4	1		1725	210	30.	11.7	27.2
1		0050	11	2.	.1	23.3	1		0910	111	47.	33.7	30.4	1		1730	211	30.	11.5	27.1
1		0055	12	2.	.1	23.3	1		0915	112	47.	33.7	30.4	1		1735	212	30.	11.3	27.1
1		0100	13	2.	.1	23.2	1		0920	113	47.	33.7	30.4	1		1740	213	29.	11.1	27.0
1		0105	14	2.	.1	23.2	1		0925	114	47.	33.6	30.4	1		1745	214	29.	10.8	27.0
1		0110	15	2.	.1	23.2	1		0930	115	47.	33.6	30.4	1		1750	215	29.	10.7	26.9
1		0115	16	2.	.0	23.2	1		0935	116	47.	33.6	30.4	1		1755	216	29.	10.5	26.9
1		0120	17	2.	.1	23.2	1		0940	117	47.	33.5	30.4	1		1800	217	28.	10.3	26.9
1		0125	18	2.	.1	23.2	1		0945	118	47.	33.5	30.4	1		1805	218	28.	10.1	26.8
1		0130	19	3.	.1	23.3	1		0950	119	47.	33.4	30.4	1		1810	219	28.	9.9	26.8
1		0135	20	4.	.1	23.4	1		0955	120	47.	33.3	30.4	1		1815	220	28.	9.7	26.7
1		0140	21	5.	.2	23.6	1		1000	121	47.	33.2	30.4	1		1820	221	27.	9.5	26.7
1		0145	22	7.	.2	23.8	1		1005	122	47.	33.1	30.4	1		1825	222	27.	9.3	26.7
1		0150	23	8.	.3	24.0	1		1010	123	47.	33.0	30.3	1		1830	223	27.	9.1	26.6
1		0155	24	9.	.3	24.0	1		1015	124	47.	32.9	30.3	1		1835	224	27.	8.9	26.6
1		0200	25	9.	.3	24.1	1		1020	125	47.	32.8	30.3	1		1840	225	26.	8.8	26.5
1		0205	26	9.	.4	24.1	1		1025	126	47.	32.7	30.3	1		1845	226	26.	8.6	26.5
1		0210	27	9.	.4	24.1	1		1030	127	47.	32.6	30.3	1		1850	227	26.	8.4	26.5
1		0215	28	10.	.5	24.2	1		1035	128	47.	32.4	30.3	1		1855	228	26.	8.2	26.4
1		0220	29	10.	.5	24.2	1		1040	129	47.	32.3	30.3	1		1900	229	25.	8.0	26.4
1		0225	30	11.	.6	24.3	1		1045	130	47.	32.2	30.3	1		1905	230	25.	7.9	26.4
1		0230	31	11.	.7	24.4	1		1050	131	47.	32.0	30.2	1		1910	231	25.	7.7	26.3
1		0235	32	12.	.8	24.4	1		1055	132	47.	31.9	30.2	1		1915	232	25.	7.5	26.3
1		0240	33	13.	.9	24.5	1		1100	133	47.	31.7	30.2	1		1920	233	24.	7.4	26.2
1		0245	34	14.	1.0	24.6	1		1105	134	47.	31.5	30.2	1		1925	234	24.	7.2	26.2
1		0250	35	14.	1.1	24.7	1		1110	135	47.	31.3	30.2	1		1930	235	24.	7.0	26.2
1		0255	36	15.	1.2	24.8	1		1115	136	46.	31.1	30.2	1		1935	236	24.	6.9	26.1
1		0300	37	16.	1.4	24.9	1		1120	137	46.	30.9	30.1	1		1940	237	24.	6.7	26.1
1		0305	38	17.	1.5	25.0	1		1125	138	46.	30.7	30.1	1		1945	238	23.	6.5	26.1
1		0310	39	17.	1.6	25.0	1		1130	139	46.	30.5	30.1	1		1950	239	23.	6.4	26.0
1		0315	40	17.	1.9	25.1	1		1135	140	46.	30.3	30.1	1		1955	240	23.	6.2	26.0
1		0320	41	18.	2.3	25.2	1		1140	141	46.	30.1	30.0	1		2000	241	23.	6.1	26.0
1		0325	42	19.	2.9	25.3	1		1145	142	46.	29.8	30.0	1		2005	242	22.	5.9	25.9
1		0330	43	20.	3.9	25.5	1		1150	143	46.	29.6	30.0	1		2010	243	22.	5.8	25.9
1		0335	44	22.	5.4	25.8	1		1155	144	46.	29.3	30.0	1		2015	244	22.	5.6	25.9
1		0340	45	24.	7.2	26.2	1		1200	145	46.	29.1	29.9	1		2020	245	22.	5.4	25.8
1		0345	46	27.	9.2	26.6	1		1205	146	46.	28.8	29.9	1		2025	246	22.	5.3	25.8
1		0350	47	30.	11.2	27.1	1		1210	147	45.	28.5	29.9	1		2030	247	21.	5.1	25.8
1		0355	48	32.	13.1	27.5	1		1215	148	45.	28.3	29.9	1		2035	248	21.	5.0	25.8
1		0400	49	34.	14.8	27.8	1		1220	149	45.	28.0	29.8	1		2040	249	21.	4.9	25.7
1		0405	50	36.	16.2	28.1	1		1225	150	45.	27.7	29.8	1		2045	250	21.	4.7	25.7
1		0410	51	38.	17.4	28.4	1		1230	151	45.	27.4	29.8	1		2050	251	21.	4.6	25.7
1		0415	52	39.	18.4	28.6	1		1235	152	45.	27.1	29.7	1		2055	252	21.	4.4	25.6
1		0420	53	40.	19.2	28.8	1		1240	153	45.	26.8	29.7	1		2100	253	20.	4.3	25.6
1		0425	54	41.	20.0	28.9	1		1245	154	44.	26.4	29.7	1		2105	254	20.	4.1	25.6
1		0430	55	42.	20.7	29.0	1		1250	155	44.	26.1	29.6	1		2110	255	20.	4.0	25.5
1		0435	56	42.	21.3	29.1	1		1255	156	44.	25.8	29.6	1		2115	256	20.	3.9	25.5
1		0440	57	42.	22.0	29.2	1		1300	157	44.	25.5	29.6	1		2120	257	20.	3.7	25.5
1		0445	58	43.	22.7	29.2	1		1305	158	44.	25.2	29.5	1		2125	258	19.	3.6	25.5
1		0450	59	43.	23.4	29.3	1		1310	159	44.	24.9	29.5	1		2130	259	19.	3.5	25.4
1		0455	60	43.	24.1	29.4	1		1315	160	44.	24.6	29.5	1		2135	260	19.	3.3	25.4
1		0500	61	44.	24.9	29.5	1		1320	161	43.	24.3	29.4	1		2140	261	19.	3.2	25.4
1		0505	62	44.	25.6	29.6	1		1325	162	43.	24.0	29.4	1		2145	262	19.	3.1	25.3
1		0510	63	44.	26.2	29.6	1		1330	163	43.	23.7	29.4	1		2150	263	19.	2.9	25.3
1		0515	64	45.	26.8	29.7	1		1335	164	43.	23.4	29.3	1		2155	264	18.	2.8	25.3
1		0520	65	45.	27.3	29.8	1		1340	165	43.	23.1	29.3	1		2200	265	18.	2.7	25.3
1		0525	66	45.	27.8	29.8	1		1345	166	43.	22.8	29.3	1		2205	266	18.	2.6	25.2
1		0530	67	45.	28.2	29.8	1		1350	167	43.	22.5	29.2	1		2210	267	18.	2.4	25.2
1		0535	68	45.	28.5	29.9	1		1355	168	43.	22.2	29.2	1		2215	268	18.	2.3	25.2
1		0540	69	46.	28.8	29.9	1		1400	169	42.	22.0	29.2	1		2220	269	18.	2.2	25.2
1		0545	70	46.	29.1	29.9	1		1405	170	42.	21.7	29.1	1		2225	270	17.	2.1	25.1
1		0550	71	46.	29.4	30.0	1		1410	171	42.	21.4	29.1	1		2230	271	17.	2.0	25.1
1		0555	72	46.	29.7	30.0	1		1415	172	42.	21.1	29.1	1		2235	272	17.	1.8	25.1
1		0600	73	46.	29.9	30.0	1		1420	173	42.	20.8	29.0	1		2240	273	17.	1.7	25.1
1		0605	74	46.	30.2	30.1	1		1425	174	42.	20.5	29.0	1		2245	274	17.	1.6	25.0
1		0610	75	46.	30.4	30.1	1		1430	175	41.	20.2	29.0	1		2250	275	17.	1.5	25.0
1		0615	76	46.	30.6	30.1	1		1435	176	41.	19.9	28.9	1		2255	276	16.	1.4	25.0
1		0620	77	46.	30.8	30.1	1		1440	177	41.	19.7	28.8	1		2300	277	15.	1.3	24.9
1		0625	78	46.	31.0	30.1	1		1445	178	40.	19.4	28.8	1		2305	278	15.	1.2	24.8
1		0630	79	46.	31.2	30.2	1		1450	179	40.	19.1	28.7	1		2310	279	14.	1.1	24.7
1		0635	80	47.	31.4	30.2	1		1455	180	40.	18.8	28.7	1		2315	280	13.	1.0	24.6
1		0640	81	47.	31.5	30.2	1		1500	181	39.	18.6	28.6	1		2320	281	13.	.9	24.5
1		0645	82	47.	31.7	30.2	1		1505	182	39.	18.3	28.6	1		2325	282	12.	.8	24.5
1		0650	83	47.	31.9	30.2	1		1510	183	39.	18.0	28.5	1		2330	283	12.	.7	24.4
1		0655	84	47.	32.0	30.2	1		1515	184	38.	17.8	28.4	1		2335	284	11.	.6	24.3
1		0700	85	47.	32.1	30.3	1		1520	185	38.	17.5	28.4	1		2340	285	10.	.6	24.3
1		0705	86	47.	32.3	30.3	1		1525	186	38.	17.2	28.3	1		2345	286	10.	.5	24.2
1		0710	87	47.	32.4	30.3	1		1530	187	37.	17.0	28.3	1		2350	287	10.	.4	24.1
1		0715	88	47.	32.5	30.3	1		1535	188	37.	16.7	28.2	1		2355	288	9.	.4	24.1
1		0720	89	47.	32.6	30.3	1		1540	189	36.	16.5	28.2	2		0000	289	9.	.3	24.0
1		0725	90	47.	32.7	30.3	1		1545	190	36.	16.2	28.1	2		0005	290	8.	.2	24.0
1		0730	91	47.	32.8	30.3	1		1550	191	36.	16.0	28.1	2		0010	291	6.	.2	23.8
1		0735	92	47.	32.9	30.3	1		1555	192	36.	15.7	28.0	2		0015	292	5.	.2	23.6
1		0740	93	47.	33.0	30.3	1		1600	193	35.	15.5	28.0	2		0020	293	4.	.1	23.5
1		0745	94	47.	33.1	30.3	1		1605	194	35.	15.2	27.9	2		0025	294	3.	.1	23.4
1		0750	95	47.	33.1	30.4	1		1610	195	35.	15.0	27.9	2		0030	295	3.	.1	23.3
1		0755	96	47.	33.2	30.4	1		1615	196	34.	14.8	27.8	2		0035	296	2.	.1	23.2
1		0800	97	47.	33.3	30.4	1		1620	197	34.	14.5	27.8	2		0040	297	2.	.1	23.2
1		0805	98	47.	33.3	30.4	1		1625	198	34.	14.3	27.7	2		0045	298	1.	.0	23.2
1		0810	99	47.	33.4	30.4	1		1630	199	33.	14.1	27.7	2		0050	299	1.	.0	23.1
1		0815	100	47.	33.4	30.4	1		1635	200	33.	13.8	27.6	2		0055	300	1.	.0	23.1

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)	(CFS)				
47.	9.08		47.	32.	30.	30.
		(INCHES)	.364	.981	.982	.982
		(AC-FT)	23.	63.	63.	63.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
(AC-FT)	(HR)				
34.	9.08	32.	16.	16.	16.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
(FEET)	(HR)				
30.41	9.08	30.27	27.59	27.43	27.43

CUMULATIVE AREA = 1.20 SQ MI

HYDROGRAPH AT STATION DET2
PLAN 1, RATIO = .70

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	23.0
1		0005	2	0.	.0	23.0
1		0010	3	0.	.0	23.0
1		0015	4	0.	.0	23.0
1		0020	5	0.	.0	23.0
1		0025	6	0.	.0	23.0
1		0030	7	0.	.0	23.0
1		0035	8	1.	.0	23.1
1		0040	9	1.	.0	23.1
1		0045	10	1.	.0	23.1
1		0050	11	1.	.0	23.1
1		0055	12	1.	.0	23.1
1		0100	13	1.	.0	23.1
1		0105	14	1.	.0	23.1
1		0110	15	1.	.0	23.1
1		0115	16	1.	.0	23.1
1		0120	17	1.	.0	23.1
1		0125	18	1.	.0	23.1
1		0130	19	1.	.0	23.1
1		0135	20	1.	.0	23.1
1		0140	21	2.	.0	23.2
1		0145	22	2.	.1	23.3
1		0150	23	3.	.1	23.3
1		0155	24	3.	.1	23.4
1		0200	25	4.	.1	23.5
1		0205	26	4.	.1	23.5
1		0210	27	4.	.1	23.5
1		0215	28	5.	.1	23.6
1		0220	29	5.	.2	23.7
1		0225	30	6.	.2	23.8
1		0230	31	8.	.2	23.9
1		0235	32	8.	.3	24.0
1		0240	33	9.	.3	24.0
1		0245	34	9.	.3	24.1
1		0250	35	9.	.4	24.1
1		0255	36	10.	.4	24.2
1		0300	37	10.	.5	24.2
1		0305	38	10.	.6	24.3
1		0310	39	11.	.6	24.3
1		0315	40	12.	.8	24.4
1		0320	41	14.	1.0	24.6
1		0325	42	16.	1.4	25.0
1		0330	43	17.	2.0	25.1
1		0335	44	19.	3.0	25.3
1		0340	45	20.	4.2	25.6
1		0345	46	22.	5.5	25.9
1		0350	47	24.	6.9	26.2
1		0355	48	26.	8.2	26.4
1		0400	49	27.	9.4	26.7
1		0405	50	28.	10.4	26.9
1		0410	51	30.	11.2	27.1
1		0415	52	31.	12.0	27.2
1		0420	53	31.	12.6	27.4
1		0425	54	32.	13.2	27.5
1		0430	55	33.	13.7	27.6
1		0435	56	33.	14.2	27.7
1		0440	57	34.	14.7	27.8
1		0445	58	35.	15.2	27.9
1		0450	59	35.	15.7	28.0
1		0455	60	36.	16.3	28.1
1		0500	61	37.	16.8	28.2
1		0505	62	38.	17.3	28.3
1		0510	63	38.	17.8	28.4
1		0515	64	39.	18.2	28.5
1		0520	65	39.	18.6	28.6
1		0525	66	40.	18.9	28.7
1		0530	67	40.	19.2	28.7
1		0535	68	40.	19.4	28.8
1		0540	69	41.	19.7	28.8
1		0545	70	41.	19.9	28.9
1		0550	71	41.	20.0	28.9
1		0555	72	41.	20.2	29.0
1		0600	73	42.	20.4	29.0
1		0605	74	42.	20.5	29.0
1		0610	75	42.	20.7	29.0
1		0615	76	42.	20.8	29.0
1		0620	77	42.	20.9	29.1
1		0625	78	42.	21.0	29.1
1		0630	79	42.	21.1	29.1
1		0635	80	42.	21.2	29.1
1		0640	81	42.	21.3	29.1
1		0645	82	42.	21.4	29.1
1		0650	83	42.	21.5	29.1
1		0655	84	42.	21.5	29.1
1		0700	85	42.	21.6	29.1
1		0705	86	42.	21.6	29.1
1		0710	87	42.	21.7	29.1
1		0715	88	42.	21.7	29.1
1		0720	89	42.	21.8	29.2
1		0725	90	42.	21.8	29.2
1		0730	91	42.	21.9	29.2
1		0735	92	42.	21.9	29.2
1		0740	93	42.	21.9	29.2
1		0745	94	42.	21.9	29.2
1		0750	95	42.	21.9	29.2
1		0755	96	42.	21.9	29.2
1		0800	97	42.	21.9	29.2
1		0805	98	42.	21.9	29.2
1		0810	99	42.	21.8	29.2
1		0815	100	42.	21.8	29.2
1		0820	101	42.	21.7	29.1
1		0825	102	42.	21.7	29.1
1		0830	103	42.	21.6	29.1
1		0835	104	42.	21.5	29.1
1		0840	105	42.	21.5	29.1
1		0845	106	42.	21.4	29.1
1		0850	107	42.	21.3	29.1
1		0855	108	42.	21.2	29.1
1		0900	109	42.	21.1	29.1
1		0905	110	42.	21.0	29.1
1		0910	111	42.	20.8	29.0
1		0915	112	42.	20.7	29.0
1		0920	113	42.	20.6	29.0
1		0925	114	42.	20.4	29.0
1		0930	115	42.	20.3	29.0
1		0935	116	41.	20.1	28.9
1		0940	117	41.	20.0	28.9
1		0945	118	41.	19.8	28.9
1		0950	119	41.	19.6	28.8
1		0955	120	40.	19.4	28.8
1		1000	121	40.	19.3	28.8
1		1005	122	40.	19.1	28.7
1		1010	123	40.	18.9	28.7
1		1015	124	39.	18.6	28.6
1		1020	125	39.	18.4	28.6
1		1025	126	39.	18.2	28.5
1		1030	127	38.	18.0	28.5
1		1035	128	38.	17.7	28.4
1		1040	129	38.	17.5	28.4
1		1045	130	38.	17.3	28.3
1		1050	131	37.	17.0	28.3
1		1055	132	37.	16.7	28.2
1		1100	133	37.	16.5	28.2
1		1105	134	36.	16.2	28.1
1		1110	135	36.	16.0	28.1
1		1115	136	36.	15.7	28.0
1		1120	137	35.	15.5	28.0
1		1125	138	35.	15.3	27.9
1		1130	139	35.	15.0	27.9
1		1135	140	34.	14.8	27.8
1		1140	141	34.	14.6	27.8
1		1145	142	34.	14.3	27.7
1		1150	143	33.	14.1	27.7
1		1155	144	33.	13.9	27.6
1		1200	145	33.	13.6	27.6
1		1205	146	32.	13.4	27.5
1		1210	147	32.	13.2	27.5
1		1215	148	32.	13.0	27.4
1		1220	149	32.	12.7	27.4
1		1225	150	31.	12.5	27.3
1		1230	151	31.	12.3	27.3
1		1235	152	31.	12.1	27.3
1		1240	153	30.	11.9	27.2
1		1245	154	30.	11.7	27.2
1		1250	155	30.	11.5	27.1
1		1255	156	30.	11.3	27.1
1		1300	157	29.	11.1	27.0
1		1305	158	29.	10.9	27.0
1		1310	159	29.	10.7	26.9
1		1315	160	29.	10.5	26.9
1		1320	161	28.	10.3	26.9
1		1325	162	28.	10.1	26.8
1		1330	163	28.	9.9	26.8
1		1335	164	28.	9.7	26.7
1		1340	165	27.	9.5	26.7
1		1345	166	27.	9.3	26.7
1		1350	167	27.	9.1	26.6
1		1355	168	27.	9.0	26.6
1		1400	169	26.	8.8	26.5
1		1405	170	26.	8.6	26.5
1		1410	171	26.	8.4	26.5
1		1415	172	26.	8.2	26.4
1		1420	173	25.	8.1	26.4
1		1425	174	25.	7.9	26.4
1		1430	175	25.	7.7	26.3
1		1435	176	25.	7.5	26.3
1		1440	177	24.	7.4	26.3
1		1445	178	24.	7.2	26.2
1		1450	179	24.	7.0	26.2
1		1455	180	24.	6.9	26.1
1		1500	181	24.	6.7	26.1
1		1505	182	23.	6.6	26.1
1		1510	183	23.	6.4	26.0
1		1515	184	23.	6.2	26.0
1		1520	185	23.	6.1	26.0
1		1525	186	23.	5.9	25.9
1		1530	187	22.	5.8	25.9
1		1535	188	22.	5.6	25.9
1		1540	189	22.	5.5	25.8
1		1545	190	22.	5.3	25.8
1		1550	191	22.	5.2	25.8
1		1555	192	21.	5.0	25.8
1		1600	193	21.	4.9	25.7
1		1605	194	21.	4.7	25.7
1		1610	195	21.	4.6	25.7
1		1615	196	21.	4.4	25.6
1		1620	197	20.	4.3	25.6
1		1625	198	20.	4.2	25.6
1		1630	199	20.	4.0	25.5
1		1635	200	20.	3.9	25.5
1		1640	201	20.	3.7	25.5
1		1645	202	19.	3.6	25.5
1		1650	203	19.	3.5	25.4
1		1655	204	19.	3.3	25.4
1		1700	205	19.	3.2	25.4
1		1705	206	19.	3.1	25.3
1		1710	207	19.	3.0	25.3
1		1715	208	18.	2.8	25.3
1		1720	209	18.	2.7	25.3
1		1725	210	18.	2.6	25.2
1		1730	211	18.	2.5	25.2
1		1735	212	18.	2.3	25.2
1		1740	213	18.	2.2	25.2
1		1745	214	17.	2.1	25.1
1		1750	215	17.	2.0	25.1
1		1755	216	17.	1.9	25.1
1		1800	217	17.	1.7	25.1
1		1805	218	17.	1.6	25.0
1		1810	219	17.	1.5	25.0
1		1815	220	16.	1.4	25.0
1		1820	221	15.	1.3	24.9
1		1825	222	15.	1.2	24.8
1		1830	223	14.	1.1	24.7
1		1835	224	13.	1.0	24.6
1		1840	225	13.	.9	24.5
1		1845	226	12.	.8	24.5
1		1850	227	12.	.7	24.4
1		1855	228	11.	.6	24.3
1		1900	229	11.	.6	24.3
1		1905	230	10.	.5	24.2
1		1910	231	10.	.4	24.2
1		1915	232	9.	.4	24.1
1		1920	233	9.	.3	24.0
1		1925	234	8.	.3	24.0
1		1930	235	7.	.2	23.8
1		1935	236	5.	.2	23.6
1		1940	237	4.	.1	23.5
1		1945	238	3.	.1	23.4
1		1950	239	3.	.1	23.3
1		1955	240	2.	.1	23.3
1		2000	241	2.	.1	23.2
1		2005	242	1.	.0	23.2
1		2010	243	1.	.0	23.1
1		2015	244	1.	.0	23.1
1		2020	245	1.	.0	23.1
1		2025	246	1.	.0	23.1
1		2030	247	0.	.0	23.1
1		2035	248	0.	.0	23.0
1		2040	249	0.	.0	23.0
1		2045	250	0.	.0	23.0
1		2050	251	0.	.0	23.0
1		2055	252	0.	.0	23.0
1		2100	253	0.	.0	23.0
1		2105	254	0.	.0	23.0
1		2110	255	0.	.0	23.0
1		2115	256	0.	.0	23.0
1		2120	257	0.	.0	23.0
1		2125	258	0.	.0	23.0
1		2130	259	0.	.0	23.0
1		2135	260	0.	.0	23.0
1		2140	261	0.	.0	23.0
1		2145	262	0.	.0	23.0
1		2150	263	0.	.0	23.0
1		2155	264	0.	.0	23.0
1		2200	265	0.	.0	23.0
1		2205	266	0.	.0	23.0
1		2210	267	0.	.0	23.0
1		2215	268	0.	.0	23.0
1		2220	269	0.	.0	23.0
1		2225	270	0.	.0	23.0
1		2230	271	0.	.0	23.0
1		2235	272	0.	.0	23.0
1		2240	273	0.	.0	23.0
1		2245	274	0.	.0	23.0
1		2250	275	0.	.0	23.0
1		2255	276	0.	.0	23.0
1		2300	277	0.	.0	23.0
1		2305	278	0.	.0	23.0
1		2310	279	0.	.0	23.0
1		2315	280	0.	.0	23.0
1		2320	281	0.	.0	23.0
1		2325	282	0.	.0	23.0
1		2330	283	0.	.0	23.0
1		2335	284	0.	.0	23.0
1		2340	285	0.	.0	23.0
1		2345	286	0.	.0	23.0
1		2350	287	0.	.0	23.0
1		2355	288	0.	.0	23.0
2		0000	289	0.	.0	23.0
2		0005	290	0.	.0	23.0
2		0010	291	0.	.0	23.0
2		0015	292	0.	.0	23.0
2		0020	293	0.	.0	23.0
2		0025	294	0.	.0	23.0
2		0030	295	0.	.0	23.0
2		0035	296	0.	.0	23.0
2		0040	297	0.	.0	23.0
2		0045	298	0.	.0	23.0
2		0050	299	0.	.0	23.0
2		0055	300	0.	.0	23.0

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)	(CFS)	41.	21.	20.	20.
42.	7.83	(INCHES)	.318	.653	.653	.653
		(AC-FT)	20.	42.	42.	42.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
(AC-FT)	(HR)	20.	8.	8.	8.
22.	7.83				

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
(FEET)	(HR)	28.91	25.91	25.80	25.80
29.17	7.83				

CUMULATIVE AREA = 1.20 SQ MI

PLAN 1, RATIO = .57

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	23.0	1		0820	101	34.	14.8	27.8	1		1640	201	6.	.2	23.7
1		0005	2	0.	.0	23.0	1		0825	102	34.	14.7	27.8	1		1645	202	4.	.1	23.5
1		0010	3	0.	.0	23.0	1		0830	103	34.	14.5	27.8	1		1650	203	4.	.1	23.4
1		0015	4	0.	.0	23.0	1		0835	104	34.	14.4	27.7	1		1655	204	3.	.1	23.3
1		0020	5	0.	.0	23.0	1		0840	105	34.	14.3	27.7	1		1700	205	2.	.1	23.3
1		0025	6	0.	.0	23.0	1		0845	106	33.	14.2	27.7	1		1705	206	2.	.1	23.2
1		0030	7	0.	.0	23.0	1		0850	107	33.	14.0	27.7	1		1710	207	1.	.0	23.2
1		0035	8	0.	.0	23.0	1		0855	108	33.	13.9	27.6	1		1715	208	1.	.0	23.1
1		0040	9	0.	.0	23.0	1		0900	109	33.	13.7	27.6	1		1720	209	1.	.0	23.1
1		0045	10	0.	.0	23.1	1		0905	110	33.	13.5	27.6	1		1725	210	1.	.0	23.1
1		0050	11	0.	.0	23.1	1		0910	111	32.	13.4	27.5	1		1730	211	1.	.0	23.1
1		0055	12	0.	.0	23.1	1		0915	112	32.	13.2	27.5	1		1735	212	0.	.0	23.1
1		0100	13	0.	.0	23.0	1		0920	113	32.	13.0	27.4	1		1740	213	0.	.0	23.0
1		0105	14	0.	.0	23.0	1		0925	114	32.	12.8	27.4	1		1745	214	0.	.0	23.0
1		0110	15	0.	.0	23.0	1		0930	115	31.	12.6	27.4	1		1750	215	0.	.0	23.0
1		0115	16	0.	.0	23.0	1		0935	116	31.	12.4	27.3	1		1755	216	0.	.0	23.0
1		0120	17	0.	.0	23.0	1		0940	117	31.	12.2	27.3	1		1800	217	0.	.0	23.0
1		0125	18	0.	.0	23.0	1		0945	118	31.	12.0	27.2	1		1805	218	0.	.0	23.0
1		0130	19	0.	.0	23.1	1		0950	119	30.	11.8	27.2	1		1810	219	0.	.0	23.0
1		0135	20	1.	.0	23.1	1		0955	120	30.	11.5	27.1	1		1815	220	0.	.0	23.0
1		0140	21	1.	.0	23.1	1		1000	121	30.	11.3	27.1	1		1820	221	0.	.0	23.0
1		0145	22	1.	.0	23.1	1		1005	122	29.	11.1	27.0	1		1825	222	0.	.0	23.0
1		0150	23	1.	.0	23.2	1		1010	123	29.	10.9	27.0	1		1830	223	0.	.0	23.0
1		0155	24	1.	.0	23.2	1		1015	124	29.	10.7	27.0	1		1835	224	0.	.0	23.0
1		0200	25	1.	.0	23.2	1		1020	125	29.	10.5	26.9	1		1840	225	0.	.0	23.0
1		0205	26	1.	.0	23.2	1		1025	126	28.	10.3	26.9	1		1845	226	0.	.0	23.0
1		0210	27	1.	.0	23.2	1		1030	127	28.	10.1	26.8	1		1850	227	0.	.0	23.0
1		0215	28	1.	.0	23.2	1		1035	128	28.	10.0	26.8	1		1855	228	0.	.0	23.0
1		0220	29	2.	.0	23.2	1		1040	129	28.	9.8	26.8	1		1900	229	0.	.0	23.0
1		0225	30	2.	.1	23.3	1		1045	130	27.	9.6	26.7	1		1905	230	0.	.0	23.0
1		0230	31	3.	.1	23.3	1		1050	131	27.	9.4	26.7	1		1910	231	0.	.0	23.0
1		0235	32	4.	.1	23.4	1		1055	132	27.	9.2	26.6	1		1915	232	0.	.0	23.0
1		0240	33	4.	.1	23.5	1		1100	133	27.	9.0	26.6	1		1920	233	0.	.0	23.0
1		0245	34	5.	.2	23.6	1		1105	134	26.	8.8	26.6	1		1925	234	0.	.0	23.0
1		0250	35	6.	.2	23.7	1		1110	135	26.	8.7	26.5	1		1930	235	0.	.0	23.0
1		0255	36	7.	.2	23.8	1		1115	136	26.	8.5	26.5	1		1935	236	0.	.0	23.0
1		0300	37	7.	.2	23.9	1		1120	137	26.	8.3	26.4	1		1940	237	0.	.0	23.0
1		0305	38	8.	.2	23.9	1		1125	138	25.	8.1	26.4	1		1945	238	0.	.0	23.0
1		0310	39	8.	.3	24.0	1		1130	139	25.	7.9	26.4	1		1950	239	0.	.0	23.0
1		0315	40	9.	.3	24.1	1		1135	140	25.	7.8	26.3	1		1955	240	0.	.0	23.0
1		0320	41	10.	.5	24.2	1		1140	141	25.	7.6	26.3	1		2000	241	0.	.0	23.0
1		0325	42	11.	.7	24.4	1		1145	142	25.	7.4	26.3	1		2005	242	0.	.0	23.0
1		0330	43	14.	1.1	24.7	1		1150	143	24.	7.3	26.2	1		2010	243	0.	.0	23.0
1		0335	44	17.	1.8	25.1	1		1155	144	24.	7.1	26.2	1		2015	244	0.	.0	23.0
1		0340	45	18.	2.6	25.2	1		1200	145	24.	6.9	26.2	1		2020	245	0.	.0	23.0
1		0345	46	19.	3.5	25.4	1		1205	146	24.	6.8	26.1	1		2025	246	0.	.0	23.0
1		0350	47	21.	4.5	25.6	1		1210	147	23.	6.6	26.1	1		2030	247	0.	.0	23.0
1		0355	48	22.	5.4	25.8	1		1215	148	23.	6.4	26.1	1		2035	248	0.	.0	23.0
1		0400	49	23.	6.2	26.0	1		1220	149	23.	6.3	26.0	1		2040	249	0.	.0	23.0
1		0405	50	24.	7.0	26.2	1		1225	150	23.	6.1	26.0	1		2045	250	0.	.0	23.0
1		0410	51	25.	7.6	26.3	1		1230	151	23.	6.0	26.0	1		2050	251	0.	.0	23.0
1		0415	52	26.	8.2	26.4	1		1235	152	22.	5.8	25.9	1		2055	252	0.	.0	23.0
1		0420	53	26.	8.7	26.5	1		1240	153	22.	5.7	25.9	1		2100	253	0.	.0	23.0
1		0425	54	27.	9.1	26.6	1		1245	154	22.	5.5	25.9	1		2105	254	0.	.0	23.0
1		0430	55	27.	9.5	26.7	1		1250	155	22.	5.4	25.8	1		2110	255	0.	.0	23.0
1		0435	56	28.	9.9	26.8	1		1255	156	22.	5.2	25.8	1		2115	256	0.	.0	23.0
1		0440	57	28.	10.3	26.9	1		1300	157	21.	5.1	25.8	1		2120	257	0.	.0	23.0
1		0445	58	29.	10.7	27.0	1		1305	158	21.	4.9	25.7	1		2125	258	0.	.0	23.0
1		0450	59	29.	11.1	27.0	1		1310	159	21.	4.8	25.7	1		2130	259	0.	.0	23.0
1		0455	60	30.	11.5	27.1	1		1315	160	21.	4.6	25.7	1		2135	260	0.	.0	23.0
1		0500	61	31.	12.0	27.2	1		1320	161	21.	4.5	25.6	1		2140	261	0.	.0	23.0
1		0505	62	31.	12.4	27.3	1		1325	162	20.	4.3	25.6	1		2145	262	0.	.0	23.0
1		0510	63	32.	12.7	27.4	1		1330	163	20.	4.2	25.6	1		2150	263	0.	.0	23.0
1		0515	64	32.	13.1	27.5	1		1335	164	20.	4.1	25.6	1		2155	264	0.	.0	23.0
1		0520	65	32.	13.4	27.5	1		1340	165	20.	3.9	25.5	1		2200	265	0.	.0	23.0
1		0525	66	33.	13.6	27.6	1		1345	166	20.	3.8	25.5	1		2205	266	0.	.0	23.0
1		0530	67	33.	13.8	27.6	1		1350	167	20.	3.7	25.5	1		2210	267	0.	.0	23.0
1		0535	68	33.	14.0	27.7	1		1355	168	19.	3.5	25.4	1		2215	268	0.	.0	23.0
1		0540	69	34.	14.2	27.7	1		1400	169	19.	3.4	25.4	1		2220	269	0.	.0	23.0
1		0545	70	34.	14.4	27.7	1		1405	170	19.	3.3	25.4	1		2225	270	0.	.0	23.0
1		0550	71	34.	14.5	27.8	1		1410	171	19.	3.1	25.4	1		2230	271	0.	.0	23.0
1		0555	72	34.	14.7	27.8	1		1415	172	19.	3.0	25.3	1		2235	272	0.	.0	23.0
1		0600	73	34.	14.8	27.8	1		1420	173	18.	2.9	25.3	1		2240	273	0.	.0	23.0
1		0605	74	34.	14.9	27.8	1		1425	174	18.	2.7	25.3	1		2245	274	0.	.0	23.0
1		0610	75	35.	15.0	27.9	1		1430	175	18.	2.6	25.3	1		2250	275	0.	.0	23.0
1		0615	76	35.	15.2	27.9	1		1435	176	18.	2.5	25.2	1		2255	276	0.	.0	23.0
1		0620	77	35.	15.3	27.9	1		1440	177	18.	2.4	25.2	1		2300	277	0.	.0	23.0
1		0625	78	35.	15.3	27.9	1		1445	178	18.	2.3	25.2	1		2305	278	0.	.0	23.0
1		0630	79	35.	15.4	27.9	1		1450	179	17.	2.1	25.1	1		2310	279	0.	.0	23.0
1		0635	80	35.	15.5	28.0	1		1455	180	17.	2.0	25.1	1		2315	280	0.	.0	23.0
1		0640	81	35.	15.5	28.0	1		1500	181	17.	1.9	25.1	1		2320	281	0.	.0	23.0
1		0645	82	35.	15.6	28.0	1		1505	182	17.	1.8	25.1	1		2325	282	0.	.0	23.0
1		0650	83	35.	15.6	28.0	1		1510	183	17.	1.7	25.0	1		2330	283	0.	.0	23.0
1		0655	84	35.	15.6	28.0	1		1515	184	17.	1.5	25.0	1		2335	284	0.	.0	23.0
1		0700	85	35.	15.6	28.0	1		1520	185	17.	1.4	25.0	1		2340	285	0.	.0	23.0
1		0705	86	35.	15.6	28.0	1		1525	186	16.	1.3	24.9	1		2345	286	0.	.0	23.0
1		0710	87	35.	15.6	28.0	1		1530	187	15.	1.2	24.8	1		2350	287	0.	.0	23.0
1		0715	88	35.	15.6	28.0	1		1535	188	14.	1.1	24.7	1		2355	288	0.	.0	23.0
1		0720	89	35.	15.6	28.0	1		1540	189	14.	1.0	24.6	2		0000	289	0.	.0	23.0
1		0725	90	35.	15.5	28.0	1		1545	190	13.	.9	24.6	2		0005	290	0.	.0	23.0
1		0730	91	35.	15.5	28.0	1		1550	191	12.	.8	24.5	2		0010	291	0.	.0	23.0
1		0735	92	35.	15.5	28.0	1		1555	192	12.	.8	24.4	2		0015	292	0.	.0	23.0
1		0740	93	35.	15.4	27.9	1		1600	193	11.	.7	24.4	2		0020	293	0.	.0	23.0
1		0745	94	35.	15.4	27.9	1		1605	194	11.	.6	24.3	2		0025	294	0.	.0	23.0
1		0750	95	35.	15.3	27.9	1		1610	195	10.	.5	24.2	2		0030	295	0.	.0	23.0
1		0755	96	35.	15.2	27.9	1		1615	196	10.	.5	24.2	2		0035	296	0.	.0	23.0
1		0800	97	35.	15.2	27.9	1		1620	197	9.	.4	24.1	2		0040	297	0.	.0	23.0
1		0805	98	35.	15.1	27.9	1		1625	198	9.	.3	24.1	2		0045	298	0.	.0	23.0
1		0810	99	35.	15.0	27.9	1		1630	199	8.	.3	24.0	2		0050	299	0.	.0	23.0
1		0815	100	34.	14.9	27.8	1		1635	200	7.	.2	23.9	2		0055	300	0.	.0	23.0

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)					
35.	7.00	(CFS)	33.	15.	14.	14.
		(INCHES)	.255	.454	.454	.454
		(AC-FT)	16.	29.	29.	29.

PEAK STORAGE	TIME		MAXIMUM AVERAGE STORAGE			
			6-HR	24-HR	72-HR	24.92-HR
(AC-FT)	(HR)					
16.	7.00		14.	5.	5.	5.

PEAK STAGE	TIME		MAXIMUM AVERAGE STAGE			
			6-HR	24-HR	72-HR	24.92-HR
(FEET)	(HR)					
27.99	7.08		27.59	24.97	24.90	24.90

CUMULATIVE AREA = 1.20 SQ MI

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116 KK      *      DET3  *
            *            *
            ***************

118 KO          OUTPUT CONTROL VARIABLES
                     IPRNT         1  PRINT CONTROL
                     IPLOT         0  PLOT CONTROL
                     QSCAL         0.  HYDROGRAPH PLOT SCALE

            HYDROGRAPH ROUTING DATA

119 RS          STORAGE ROUTING
                     NSTPS         1  NUMBER OF SUBREACHES
                      ITYP      ELEV  TYPE OF INITIAL CONDITION
                    RSVRIC       .00  INITIAL CONDITION
                         X       .00 WORKING R AND D COEFFICIENT

120 SA              AREA          .0        .5       6.7       9.1

121 SE          ELEVATION         .00      1.00      6.00     11.70

122 SQ          DISCHARGE         0.       20.       70.       77.

123 SE          ELEVATION         .00      2.00     10.00     12.00
                                                      ***

                                COMPUTED STORAGE-ELEVATION DATA

                STORAGE           .00       .17     15.14     59.85
                ELEVATION         .00      1.00      6.00     11.70

                                COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

                STORAGE           .00       .17       .98     15.14     45.05     59.85     62.60
                OUTFLOW           .00     10.23     20.46     45.17     69.89     76.32     77.46
                ELEVATION         .00      1.00      2.00      6.00     10.00     11.70     12.00
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HYDROGRAPH AT STATION DET3
PLAN 1, RATIO = 1.00

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	.0	1		0820	101	71.	47.8	10.3	1		1640	201	37.	10.2	4.6
1		0005	2	0.	.0	.0	1		0825	102	71.	47.3	10.3	1		1645	202	36.	10.0	4.5
1		0010	3	0.	.0	.0	1		0830	103	71.	46.9	10.2	1		1650	203	36.	9.7	4.5
1		0015	4	0.	.0	.0	1		0835	104	70.	46.4	10.2	1		1655	204	35.	9.5	4.4
1		0020	5	0.	.0	.0	1		0840	105	70.	45.9	10.1	1		1700	205	35.	9.2	4.3
1		0025	6	1.	.0	.1	1		0845	106	70.	45.4	10.0	1		1705	206	34.	9.0	4.3
1		0030	7	1.	.0	.1	1		0850	107	70.	44.9	10.0	1		1710	207	34.	8.8	4.2
1		0035	8	2.	.0	.2	1		0855	108	69.	44.4	9.9	1		1715	208	34.	8.5	4.1
1		0040	9	3.	.0	.3	1		0900	109	69.	44.0	9.9	1		1720	209	33.	8.3	4.1
1		0045	10	3.	.0	.3	1		0905	110	69.	43.5	9.8	1		1725	210	33.	8.1	4.0
1		0050	11	3.	.0	.3	1		0910	111	68.	43.0	9.7	1		1730	211	32.	7.8	3.9
1		0055	12	3.	.0	.3	1		0915	112	68.	42.6	9.7	1		1735	212	32.	7.6	3.9
1		0100	13	3.	.0	.3	1		0920	113	67.	42.1	9.6	1		1740	213	32.	7.4	3.8
1		0105	14	3.	.0	.3	1		0925	114	67.	41.6	9.5	1		1745	214	31.	7.2	3.8
1		0110	15	3.	.0	.3	1		0930	115	67.	41.2	9.5	1		1750	215	31.	7.0	3.7
1		0115	16	3.	.0	.3	1		0935	116	66.	40.7	9.4	1		1755	216	31.	6.8	3.6
1		0120	17	3.	.1	.3	1		0940	117	66.	40.3	9.4	1		1800	217	30.	6.5	3.6
1		0125	18	4.	.1	.4	1		0945	118	66.	39.8	9.3	1		1805	218	30.	6.3	3.5
1		0130	19	4.	.1	.4	1		0950	119	65.	39.4	9.2	1		1810	219	29.	6.1	3.5
1		0135	20	6.	.1	.5	1		0955	120	65.	38.9	9.2	1		1815	220	29.	5.9	3.4
1		0140	21	7.	.1	.7	1		1000	121	64.	38.5	9.1	1		1820	221	29.	5.7	3.3
1		0145	22	9.	.1	.9	1		1005	122	64.	38.0	9.1	1		1825	222	28.	5.5	3.3
1		0150	23	10.	.2	1.0	1		1010	123	64.	37.6	9.0	1		1830	223	28.	5.3	3.2
1		0155	24	11.	.2	1.1	1		1015	124	63.	37.1	8.9	1		1835	224	28.	5.2	3.2
1		0200	25	12.	.3	1.1	1		1020	125	63.	36.7	8.9	1		1840	225	27.	5.0	3.1
1		0205	26	12.	.3	1.2	1		1025	126	63.	36.3	8.8	1		1845	226	27.	4.8	3.1
1		0210	27	13.	.4	1.3	1		1030	127	62.	35.8	8.8	1		1850	227	27.	4.6	3.0
1		0215	28	14.	.5	1.4	1		1035	128	62.	35.4	8.7	1		1855	228	26.	4.4	3.0
1		0220	29	15.	.6	1.5	1		1040	129	62.	35.0	8.7	1		1900	229	26.	4.2	2.9
1		0225	30	16.	.6	1.6	1		1045	130	61.	34.6	8.6	1		1905	230	26.	4.0	2.9
1		0230	31	18.	.7	1.7	1		1050	131	61.	34.1	8.5	1		1910	231	26.	3.9	2.8
1		0235	32	19.	.8	1.8	1		1055	132	61.	33.7	8.5	1		1915	232	25.	3.7	2.8
1		0240	33	20.	1.0	2.0	1		1100	133	60.	33.3	8.4	1		1920	233	25.	3.5	2.7
1		0245	34	21.	1.1	2.0	1		1105	134	60.	32.9	8.4	1		1925	234	25.	3.4	2.7
1		0250	35	21.	1.2	2.1	1		1110	135	60.	32.5	8.3	1		1930	235	24.	3.2	2.6
1		0255	36	21.	1.4	2.1	1		1115	136	59.	32.1	8.3	1		1935	236	24.	3.0	2.6
1		0300	37	22.	1.6	2.2	1		1120	137	59.	31.7	8.2	1		1940	237	24.	2.9	2.5
1		0305	38	22.	1.8	2.2	1		1125	138	59.	31.3	8.2	1		1945	238	23.	2.7	2.5
1		0310	39	22.	2.0	2.3	1		1130	139	58.	30.9	8.1	1		1950	239	23.	2.5	2.4
1		0315	40	23.	2.3	2.4	1		1135	140	58.	30.5	8.0	1		1955	240	23.	2.4	2.4
1		0320	41	23.	2.7	2.5	1		1140	141	58.	30.1	8.0	1		2000	241	23.	2.2	2.3
1		0325	42	25.	3.3	2.7	1		1145	142	57.	29.7	7.9	1		2005	242	22.	2.1	2.3
1		0330	43	26.	4.2	2.9	1		1150	143	57.	29.3	7.9	1		2010	243	22.	1.9	2.3
1		0335	44	28.	5.5	3.3	1		1155	144	57.	28.9	7.8	1		2015	244	22.	1.8	2.2
1		0340	45	31.	7.2	3.7	1		1200	145	56.	28.5	7.8	1		2020	245	22.	1.6	2.2
1		0345	46	35.	9.3	4.3	1		1205	146	56.	28.1	7.7	1		2025	246	21.	1.5	2.1
1		0350	47	39.	11.9	5.1	1		1210	147	56.	27.7	7.7	1		2030	247	21.	1.3	2.1
1		0355	48	45.	14.8	5.9	1		1215	148	55.	27.4	7.6	1		2035	248	21.	1.2	2.1
1		0400	49	48.	18.1	6.4	1		1220	149	55.	27.0	7.6	1		2040	249	21.	1.0	2.0
1		0405	50	51.	21.6	6.9	1		1225	150	55.	26.6	7.5	1		2045	250	19.	.9	1.9
1		0410	51	53.	25.1	7.3	1		1230	151	54.	26.2	7.5	1		2050	251	18.	.8	1.7
1		0415	52	56.	28.6	7.8	1		1235	152	54.	25.8	7.4	1		2055	252	16.	.6	1.6
1		0420	53	59.	31.9	8.2	1		1240	153	54.	25.5	7.4	1		2100	253	15.	.5	1.5
1		0425	54	61.	34.9	8.6	1		1245	154	53.	25.1	7.3	1		2105	254	14.	.4	1.3
1		0430	55	64.	37.6	9.0	1		1250	155	53.	24.7	7.3	1		2110	255	13.	.3	1.2
1		0435	56	66.	40.0	9.3	1		1255	156	53.	24.4	7.2	1		2115	256	11.	.3	1.1
1		0440	57	68.	42.2	9.6	1		1300	157	53.	24.0	7.2	1		2120	257	11.	.2	1.0
1		0445	58	69.	44.1	9.9	1		1305	158	52.	23.7	7.1	1		2125	258	8.	.1	.8
1		0450	59	70.	45.7	10.1	1		1310	159	52.	23.3	7.1	1		2130	259	5.	.1	.5
1		0455	60	71.	47.3	10.3	1		1315	160	52.	22.9	7.0	1		2135	260	3.	.1	.3
1		0500	61	72.	48.8	10.4	1		1320	161	51.	22.6	7.0	1		2140	261	2.	.0	.2
1		0505	62	72.	50.1	10.6	1		1325	162	51.	22.2	6.9	1		2145	262	1.	.0	.1
1		0510	63	73.	51.4	10.7	1		1330	163	51.	21.9	6.9	1		2150	263	1.	.0	.1
1		0515	64	73.	52.6	10.9	1		1335	164	50.	21.5	6.9	1		2155	264	1.	.0	.1
1		0520	65	74.	53.7	11.0	1		1340	165	50.	21.2	6.8	1		2200	265	0.	.0	.0
1		0525	66	74.	54.7	11.1	1		1345	166	50.	20.8	6.8	1		2205	266	0.	.0	.0
1		0530	67	74.	55.6	11.2	1		1350	167	50.	20.5	6.7	1		2210	267	0.	.0	.0
1		0535	68	75.	56.3	11.3	1		1355	168	49.	20.2	6.7	1		2215	268	0.	.0	.0
1		0540	69	75.	56.9	11.4	1		1400	169	49.	19.8	6.6	1		2220	269	0.	.0	.0
1		0545	70	75.	57.4	11.4	1		1405	170	49.	19.5	6.6	1		2225	270	0.	.0	.0
1		0550	71	75.	57.8	11.5	1		1410	171	48.	19.1	6.5	1		2230	271	0.	.0	.0
1		0555	72	76.	58.0	11.5	1		1415	172	48.	18.8	6.5	1		2235	272	0.	.0	.0
1		0600	73	76.	58.1	11.5	1		1420	173	48.	18.5	6.4	1		2240	273	0.	.0	.0
1		0605	74	76.	58.2	11.5	1		1425	174	48.	18.2	6.4	1		2245	274	0.	.0	.0
1		0610	75	76.	58.2	11.5	1		1430	175	47.	17.8	6.4	1		2250	275	0.	.0	.0
1		0615	76	76.	58.1	11.5	1		1435	176	47.	17.5	6.3	1		2255	276	0.	.0	.0
1		0620	77	75.	57.9	11.5	1		1440	177	47.	17.2	6.3	1		2300	277	0.	.0	.0
1		0625	78	75.	57.8	11.5	1		1445	178	47.	16.9	6.2	1		2305	278	0.	.0	.0
1		0630	79	75.	57.5	11.4	1		1450	179	46.	16.5	6.2	1		2310	279	0.	.0	.0
1		0635	80	75.	57.2	11.4	1		1455	180	46.	16.2	6.1	1		2315	280	0.	.0	.0
1		0640	81	75.	56.9	11.4	1		1500	181	46.	15.9	6.1	1		2320	281	0.	.0	.0
1		0645	82	75.	56.6	11.3	1		1505	182	46.	15.6	6.1	1		2325	282	0.	.0	.0
1		0650	83	75.	56.2	11.3	1		1510	183	45.	15.3	6.0	1		2330	283	0.	.0	.0
1		0655	84	75.	55.8	11.2	1		1515	184	45.	15.0	5.9	1		2335	284	0.	.0	.0
1		0700	85	74.	55.4	11.2	1		1520	185	44.	14.7	5.9	1		2340	285	0.	.0	.0
1		0705	86	74.	55.0	11.1	1		1525	186	44.	14.4	5.8	1		2345	286	0.	.0	.0
1		0710	87	74.	54.5	11.1	1		1530	187	43.	14.1	5.7	1		2350	287	0.	.0	.0
1		0715	88	74.	54.1	11.0	1		1535	188	43.	13.8	5.6	1		2355	288	0.	.0	.0
1		0720	89	74.	53.6	11.0	1		1540	189	42.	13.5	5.5	2		0000	289	0.	.0	.0
1		0725	90	73.	53.2	10.9	1		1545	190	42.	13.2	5.4	2		0005	290	0.	.0	.0

1	0730	91	73.	52.7	10.9	*	1	1550	191	41.	12.9	5.4	*	2	0010	291	0.	.0	.0
1	0735	92	73.	52.2	10.8	*	1	1555	192	41.	12.6	5.3	*	2	0015	292	0.	.0	.0
1	0740	93	73.	51.7	10.8	*	1	1600	193	40.	12.3	5.2	*	2	0020	293	0.	.0	.0
1	0745	94	73.	51.2	10.7	*	1	1605	194	40.	12.1	5.1	*	2	0025	294	0.	.0	.0
1	0750	95	72.	50.8	10.7	*	1	1610	195	39.	11.8	5.1	*	2	0030	295	0.	.0	.0
1	0755	96	72.	50.3	10.6	*	1	1615	196	39.	11.5	5.0	*	2	0035	296	0.	.0	.0
1	0800	97	72.	49.8	10.5	*	1	1620	197	38.	11.2	4.9	*	2	0040	297	0.	.0	.0
1	0805	98	72.	49.3	10.5	*	1	1625	198	38.	11.0	4.8	*	2	0045	298	0.	.0	.0
1	0810	99	72.	48.8	10.4	*	1	1630	199	37.	10.7	4.8	*	2	0050	299	0.	.0	.0
1	0815	100	71.	48.3	10.4	*	1	1635	200	37.	10.5	4.7	*	2	0055	300	0.	.0	.0

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 76.	6.08		71.	39.	38.	38.
		(INCHES)	.806	1.782	1.782	1.782
		(AC-FT)	35.	78.	78.	78.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
58.	6.08	49.	20.	19.	19.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
11.51	6.08	10.41	5.34	5.15	5.15

CUMULATIVE AREA = .82 SQ MI

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HYDROGRAPH AT STATION DET3
PLAN 1, RATIO = .98

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DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	.0	1		0820	101	70.	45.9	10.1	1		1640	201	35.	9.3	4.3
1		0005	2	0.	.0	.0	1		0825	102	70.	45.5	10.0	1		1645	202	34.	9.0	4.3
1		0010	3	0.	.0	.0	1		0830	103	70.	45.0	10.0	1		1650	203	34.	8.8	4.2
1		0015	4	0.	.0	.0	1		0835	104	69.	44.5	9.9	1		1655	204	34.	8.5	4.1
1		0020	5	0.	.0	.0	1		0840	105	69.	44.0	9.9	1		1700	205	33.	8.3	4.1
1		0025	6	1.	.0	.0	1		0845	106	69.	43.5	9.8	1		1705	206	33.	8.1	4.0
1		0030	7	1.	.0	.1	1		0850	107	68.	43.1	9.7	1		1710	207	32.	7.9	3.9
1		0035	8	2.	.0	.2	1		0855	108	68.	42.6	9.7	1		1715	208	32.	7.6	3.9
1		0040	9	2.	.0	.2	1		0900	109	67.	42.1	9.6	1		1720	209	32.	7.4	3.8
1		0045	10	3.	.0	.3	1		0905	110	67.	41.7	9.5	1		1725	210	31.	7.2	3.8
1		0050	11	3.	.0	.3	1		0910	111	67.	41.2	9.5	1		1730	211	31.	7.0	3.7
1		0055	12	3.	.0	.3	1		0915	112	66.	40.8	9.4	1		1735	212	31.	6.8	3.6
1		0100	13	2.	.0	.2	1		0920	113	66.	40.3	9.4	1		1740	213	30.	6.6	3.6
1		0105	14	2.	.0	.2	1		0925	114	66.	39.9	9.3	1		1745	214	30.	6.4	3.5
1		0110	15	2.	.0	.2	1		0930	115	65.	39.4	9.2	1		1750	215	29.	6.2	3.5
1		0115	16	3.	.0	.3	1		0935	116	65.	39.0	9.2	1		1755	216	29.	6.0	3.4
1		0120	17	3.	.0	.3	1		0940	117	64.	38.5	9.1	1		1800	217	29.	5.8	3.3
1		0125	18	3.	.1	.3	1		0945	118	64.	38.1	9.1	1		1805	218	28.	5.6	3.3
1		0130	19	4.	.1	.4	1		0950	119	64.	37.6	9.0	1		1810	219	28.	5.4	3.2
1		0135	20	5.	.1	.5	1		0955	120	63.	37.2	8.9	1		1815	220	28.	5.2	3.2
1		0140	21	6.	.1	.6	1		1000	121	63.	36.8	8.9	1		1820	221	27.	5.0	3.1
1		0145	22	8.	.1	.8	1		1005	122	63.	36.3	8.8	1		1825	222	27.	4.8	3.1
1		0150	23	10.	.2	1.0	1		1010	123	62.	35.9	8.8	1		1830	223	27.	4.6	3.0
1		0155	24	11.	.2	1.0	1		1015	124	62.	35.5	8.7	1		1835	224	26.	4.4	3.0
1		0200	25	11.	.2	1.1	1		1020	125	62.	35.0	8.7	1		1840	225	26.	4.2	2.9
1		0205	26	12.	.3	1.2	1		1025	126	61.	34.6	8.6	1		1845	226	26.	4.1	2.9
1		0210	27	13.	.4	1.2	1		1030	127	61.	34.2	8.5	1		1850	227	26.	3.9	2.8
1		0215	28	13.	.4	1.3	1		1035	128	61.	33.8	8.5	1		1855	228	25.	3.7	2.8
1		0220	29	14.	.5	1.4	1		1040	129	60.	33.4	8.4	1		1900	229	25.	3.5	2.7
1		0225	30	16.	.6	1.5	1		1045	130	60.	32.9	8.4	1		1905	230	25.	3.4	2.7
1		0230	31	17.	.7	1.6	1		1050	131	60.	32.5	8.3	1		1910	231	24.	3.2	2.6
1		0235	32	18.	.8	1.8	1		1055	132	59.	32.1	8.3	1		1915	232	24.	3.0	2.6
1		0240	33	19.	.9	1.9	1		1100	133	59.	31.7	8.2	1		1920	233	24.	2.9	2.5
1		0245	34	20.	1.0	2.0	1		1105	134	59.	31.3	8.2	1		1925	234	23.	2.7	2.5
1		0250	35	21.	1.1	2.0	1		1110	135	58.	30.9	8.1	1		1930	235	23.	2.5	2.4
1		0255	36	21.	1.3	2.1	1		1115	136	58.	30.5	8.1	1		1935	236	23.	2.4	2.4
1		0300	37	21.	1.5	2.1	1		1120	137	58.	30.1	8.0	1		1940	237	23.	2.2	2.4
1		0305	38	22.	1.6	2.2	1		1125	138	57.	29.7	7.9	1		1945	238	22.	2.1	2.3
1		0310	39	22.	1.9	2.2	1		1130	139	57.	29.3	7.9	1		1950	239	22.	1.9	2.3
1		0315	40	22.	2.1	2.3	1		1135	140	57.	28.9	7.8	1		1955	240	22.	1.8	2.2
1		0320	41	23.	2.5	2.4	1		1140	141	56.	28.5	7.8	1		2000	241	22.	1.6	2.2
1		0325	42	24.	3.1	2.6	1		1145	142	56.	28.2	7.7	1		2005	242	21.	1.5	2.1
1		0330	43	26.	3.9	2.8	1		1150	143	56.	27.8	7.7	1		2010	243	21.	1.3	2.1
1		0335	44	28.	5.2	3.2	1		1155	144	55.	27.4	7.6	1		2015	244	21.	1.2	2.1
1		0340	45	31.	6.8	3.6	1		1200	145	55.	27.0	7.6	1		2020	245	21.	1.0	2.0
1		0345	46	34.	8.9	4.2	1		1205	146	55.	26.6	7.5	1		2025	246	20.	.9	1.9
1		0350	47	39.	11.4	4.9	1		1210	147	54.	26.3	7.5	1		2030	247	18.	.8	1.7
1		0355	48	44.	14.3	5.7	1		1215	148	54.	25.9	7.4	1		2035	248	16.	.7	1.6
1		0400	49	47.	17.4	6.3	1		1220	149	54.	25.5	7.4	1		2040	249	15.	.5	1.5
1		0405	50	50.	20.8	6.8	1		1225	150	53.	25.1	7.3	1		2045	250	14.	.4	1.3
1		0410	51	53.	24.2	7.2	1		1230	151	53.	24.8	7.3	1		2050	251	13.	.4	1.2
1		0415	52	55.	27.6	7.7	1		1235	152	53.	24.4	7.2	1		2055	252	12.	.3	1.1
1		0420	53	58.	30.8	8.1	1		1240	153	53.	24.1	7.2	1		2100	253	11.	.2	1.0
1		0425	54	60.	33.7	8.5	1		1245	154	52.	23.7	7.1	1		2105	254	8.	.1	.8
1		0430	55	63.	36.3	8.8	1		1250	155	52.	23.3	7.1	1		2110	255	5.	.1	.5
1		0435	56	65.	38.7	9.1	1		1255	156	52.	23.0	7.0	1		2115	256	3.	.1	.3
1		0440	57	66.	40.7	9.4	1		1300	157	51.	22.6	7.0	1		2120	257	2.	.0	.2
1		0445	58	68.	42.6	9.7	1		1305	158	51.	22.3	7.0	1		2125	258	1.	.0	.1
1		0450	59	69.	44.2	9.9	1		1310	159	51.	21.9	6.9	1		2130	259	1.	.0	.1
1		0455	60	70.	45.7	10.1	1		1315	160	50.	21.6	6.9	1		2135	260	1.	.0	.1
1		0500	61	71.	47.1	10.2	1		1320	161	50.	21.2	6.8	1		2140	261	0.	.0	.0
1		0505	62	71.	48.5	10.4	1		1325	162	50.	20.9	6.8	1		2145	262	0.	.0	.0
1		0510	63	72.	49.7	10.5	1		1330	163	50.	20.5	6.7	1		2150	263	0.	.0	.0
1		0515	64	72.	50.9	10.7	1		1335	164	49.	20.2	6.7	1		2155	264	0.	.0	.0
1		0520	65	73.	51.9	10.8	1		1340	165	49.	19.9	6.6	1		2200	265	0.	.0	.0
1		0525	66	73.	52.9	10.9	1		1345	166	49.	19.5	6.6	1		2205	266	0.	.0	.0
1		0530	67	74.	53.7	11.0	1		1350	167	49.	19.2	6.5	1		2210	267	0.	.0	.0
1		0535	68	74.	54.4	11.1	1		1355	168	48.	18.9	6.5	1		2215	268	0.	.0	.0
1		0540	69	74.	55.0	11.1	1		1400	169	48.	18.5	6.5	1		2220	269	0.	.0	.0
1		0545	70	74.	55.5	11.2	1		1405	170	48.	18.2	6.4	1		2225	270	0.	.0	.0
1		0550	71	75.	55.8	11.2	1		1410	171	47.	17.9	6.4	1		2230	271	0.	.0	.0
1		0555	72	75.	56.1	11.3	1		1415	172	47.	17.5	6.3	1		2235	272	0.	.0	.0
1		0600	73	75.	56.2	11.3	1		1420	173	47.	17.2	6.3	1		2240	273	0.	.0	.0
1		0605	74	75.	56.2	11.3	1		1425	174	47.	16.9	6.2	1		2245	274	0.	.0	.0
1		0610	75	75.	56.2	11.3	1		1430	175	46.	16.6	6.2	1		2250	275	0.	.0	.0
1		0615	76	75.	56.1	11.3	1		1435	176	46.	16.3	6.1	1		2255	276	0.	.0	.0
1		0620	77	75.	56.0	11.3	1		1440	177	46.	15.9	6.1	1		2300	277	0.	.0	.0
1		0625	78	75.	55.8	11.2	1		1445	178	46.	15.6	6.1	1		2305	278	0.	.0	.0
1		0630	79	74.	55.5	11.2	1		1450	179	45.	15.3	6.0	1		2310	279	0.	.0	.0
1		0635	80	74.	55.3	11.2	1		1455	180	45.	15.0	6.0	1		2315	280	0.	.0	.0
1		0640	81	74.	54.9	11.1	1		1500	181	44.	14.7	5.9	1		2320	281	0.	.0	.0
1		0645	82	74.	54.6	11.1	1		1505	182	44.	14.4	5.8	1		2325	282	0.	.0	.0
1		0650	83	74.	54.2	11.1	1		1510	183	43.	14.1	5.7	1		2330	283	0.	.0	.0
1		0655	84	74.	53.9	11.0	1		1515	184	43.	13.8	5.6	1		2335	284	0.	.0	.0
1		0700	85	74.	53.4	11.0	1		1520	185	42.	13.5	5.5	1		2340	285	0.	.0	.0
1		0705	86	73.	53.0	10.9	1		1525	186	42.	13.2	5.5	1		2345	286	0.	.0	.0
1		0710	87	73.	52.6	10.9	1		1530	187	41.	12.9	5.4	1		2350	287	0.	.0	.0
1		0715	88	73.	52.1	10.8	1		1535	188	41.	12.6	5.3	1		2355	288	0.	.0	.0
1		0720	89	73.	51.7	10.8	1		1540	189	40.	12.4	5.2	2		0000	289	0.	.0	.0
1		0725	90	73.	51.2	10.7	1		1545	190	40.	12.1	5.1	2		0005	290	0.	.0	.0
1		0730	91	72.	50.7	10.7	1		1550	191	39.	11.8	5.1	2		0010	291	0.	.0	.0
1		0735	92	72.	50.3	10.6	1		1555	192	39.	11.5	5.0	2		0015	292	0.	.0	.0
1		0740	93	72.	49.8	10.5	1		1600	193	38.	11.3	4.9	2		0020	293	0.	.0	.0
1		0745	94	72.	49.3	10.5	1		1605	194	38.	11.0	4.8	2		0025	294	0.	.0	.0

1	0750	95	72.	48.8	10.4 *	1	1610	195	38.	10.8	4.8 *	2	0030	295	0.	.0	.0
1	0755	96	71.	48.3	10.4 *	1	1615	196	37.	10.5	4.7 *	2	0035	296	0.	.0	.0
1	0800	97	71.	47.9	10.3 *	1	1620	197	37.	10.2	4.6 *	2	0040	297	0.	.0	.0
1	0805	98	71.	47.4	10.3 *	1	1625	198	36.	10.0	4.5 *	2	0045	298	0.	.0	.0
1	0810	99	71.	46.9	10.2 *	1	1630	199	36.	9.7	4.5 *	2	0050	299	0.	.0	.0
1	0815	100	70.	46.4	10.2 *	1	1635	200	35.	9.5	4.4 *	2	0055	300	0.	.0	.0

PEAK FLOW (CFS)	TIME (HR)		6-HR	MAXIMUM AVERAGE FLOW 24-HR	72-HR	24.92-HR
75.	6.08	(CFS)	70.	38.	37.	37.
		(INCHES)	.794	1.729	1.729	1.729
		(AC-FT)	35.	75.	75.	75.

PEAK STORAGE (AC-FT)	TIME (HR)	6-HR	MAXIMUM AVERAGE STORAGE 24-HR	72-HR	24.92-HR
56.	6.08	47.	19.	18.	18.

PEAK STAGE (FEET)	TIME (HR)	6-HR	MAXIMUM AVERAGE STAGE 24-HR	72-HR	24.92-HR
11.28	6.08	10.19	5.16	4.97	4.97

CUMULATIVE AREA = .82 SQ MI

HYDROGRAPH AT STATION DET3
PLAN 1, RATIO = .97

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000		1	0.	.0	.0 *	1	0820		101	70.	45.0	10.0 *	1	1640		201	34.	8.8	4.2
1	0005		2	0.	.0	.0 *	1	0825		102	69.	44.5	9.9 *	1	1645		202	34.	8.6	4.1
1	0010		3	0.	.0	.0 *	1	0830		103	69.	44.0	9.9 *	1	1650		203	33.	8.3	4.1
1	0015		4	0.	.0	.0 *	1	0835		104	69.	43.6	9.8 *	1	1655		204	33.	8.1	4.0
1	0020		5	0.	.0	.0 *	1	0840		105	68.	43.1	9.7 *	1	1700		205	32.	7.9	3.9
1	0025		6	0.	.0	.0 *	1	0845		106	68.	42.6	9.7 *	1	1705		206	32.	7.7	3.9
1	0030		7	1.	.0	.1 *	1	0850		107	68.	42.2	9.6 *	1	1710		207	32.	7.4	3.8
1	0035		8	2.	.0	.2 *	1	0855		108	67.	41.7	9.6 *	1	1715		208	31.	7.2	3.8
1	0040		9	2.	.0	.2 *	1	0900		109	67.	41.2	9.5 *	1	1720		209	31.	7.0	3.7
1	0045		10	3.	.0	.3 *	1	0905		110	66.	40.8	9.4 *	1	1725		210	31.	6.8	3.6
1	0050		11	3.	.0	.3 *	1	0910		111	66.	40.3	9.4 *	1	1730		211	30.	6.6	3.6
1	0055		12	2.	.0	.2 *	1	0915		112	66.	39.9	9.3 *	1	1735		212	30.	6.4	3.5
1	0100		13	2.	.0	.2 *	1	0920		113	65.	39.4	9.2 *	1	1740		213	30.	6.2	3.5
1	0105		14	2.	.0	.2 *	1	0925		114	65.	39.0	9.2 *	1	1745		214	29.	6.0	3.4
1	0110		15	2.	.0	.2 *	1	0930		115	65.	38.5	9.1 *	1	1750		215	29.	5.8	3.4
1	0115		16	2.	.0	.2 *	1	0935		116	64.	38.1	9.1 *	1	1755		216	28.	5.6	3.3
1	0120		17	3.	.0	.3 *	1	0940		117	64.	37.6	9.0 *	1	1800		217	28.	5.4	3.2
1	0125		18	3.	.1	.3 *	1	0945		118	63.	37.2	9.0 *	1	1805		218	28.	5.2	3.2
1	0130		19	4.	.1	.4 *	1	0950		119	63.	36.8	8.9 *	1	1810		219	27.	5.0	3.1
1	0135		20	5.	.1	.5 *	1	0955		120	63.	36.3	8.8 *	1	1815		220	27.	4.8	3.1
1	0140		21	6.	.1	.6 *	1	1000		121	62.	35.9	8.8 *	1	1820		221	27.	4.6	3.0
1	0145		22	8.	.1	.8 *	1	1005		122	62.	35.5	8.7 *	1	1825		222	26.	4.4	3.0
1	0150		23	10.	.2	1.0 *	1	1010		123	62.	35.1	8.7 *	1	1830		223	26.	4.3	2.9
1	0155		24	11.	.2	1.0 *	1	1015		124	61.	34.6	8.6 *	1	1835		224	26.	4.1	2.9
1	0200		25	11.	.2	1.1 *	1	1020		125	61.	34.2	8.6 *	1	1840		225	26.	3.9	2.8
1	0205		26	12.	.3	1.1 *	1	1025		126	61.	33.8	8.5 *	1	1845		226	25.	3.7	2.8
1	0210		27	12.	.3	1.2 *	1	1030		127	60.	33.4	8.4 *	1	1850		227	25.	3.5	2.7
1	0215		28	13.	.4	1.3 *	1	1035		128	60.	33.0	8.4 *	1	1855		228	25.	3.4	2.7
1	0220		29	14.	.5	1.4 *	1	1040		129	60.	32.6	8.3 *	1	1900		229	24.	3.2	2.6
1	0225		30	15.	.6	1.5 *	1	1045		130	59.	32.1	8.3 *	1	1905		230	24.	3.0	2.6
1	0230		31	16.	.6	1.6 *	1	1050		131	59.	31.7	8.2 *	1	1910		231	24.	2.9	2.5
1	0235		32	18.	.7	1.7 *	1	1055		132	59.	31.3	8.2 *	1	1915		232	23.	2.7	2.5
1	0240		33	19.	.8	1.8 *	1	1100		133	58.	30.9	8.1 *	1	1920		233	23.	2.6	2.4
1	0245		34	20.	1.0	2.0 *	1	1105		134	58.	30.5	8.1 *	1	1925		234	23.	2.4	2.4
1	0250		35	21.	1.1	2.0 *	1	1110		135	58.	30.1	8.0 *	1	1930		235	23.	2.2	2.4
1	0255		36	21.	1.2	2.1 *	1	1115		136	57.	29.7	8.0 *	1	1935		236	22.	2.1	2.3
1	0300		37	21.	1.4	2.1 *	1	1120		137	57.	29.3	7.9 *	1	1940		237	22.	1.9	2.3
1	0305		38	21.	1.6	2.2 *	1	1125		138	57.	29.0	7.8 *	1	1945		238	22.	1.8	2.2
1	0310		39	22.	1.8	2.2 *	1	1130		139	56.	28.6	7.8 *	1	1950		239	22.	1.6	2.2
1	0315		40	22.	2.1	2.3 *	1	1135		140	56.	28.2	7.7 *	1	1955		240	21.	1.5	2.1
1	0320		41	23.	2.4	2.4 *	1	1140		141	56.	27.8	7.7 *	1	2000		241	21.	1.3	2.1
1	0325		42	24.	3.0	2.6 *	1	1145		142	55.	27.4	7.6 *	1	2005		242	21.	1.2	2.1
1	0330		43	25.	3.8	2.8 *	1	1150		143	55.	27.0	7.6 *	1	2010		243	21.	1.0	2.0
1	0335		44	28.	5.0	3.1 *	1	1155		144	55.	26.7	7.5 *	1	2015		244	20.	.9	1.9
1	0340		45	30.	6.6	3.6 *	1	1200		145	54.	26.3	7.5 *	1	2020		245	18.	.8	1.8
1	0345		46	34.	8.7	4.2 *	1	1205		146	54.	25.9	7.4 *	1	2025		246	16.	.7	1.6
1	0350		47	38.	11.1	4.9 *	1	1210		147	54.	25.5	7.4 *	1	2030		247	15.	.6	1.5
1	0355		48	43.	14.0	5.7 *	1	1215		148	53.	25.2	7.3 *	1	2035		248	14.	.5	1.4
1	0400		49	47.	17.1	6.3 *	1	1220		149	53.	24.8	7.3 *	1	2040		249	13.	.4	1.2
1	0405		50	50.	20.4	6.7 *	1	1225		150	53.	24.4	7.2 *	1	2045		250	12.	.3	1.1
1	0410		51	52.	23.8	7.2 *	1	1230		151	53.	24.1	7.2 *	1	2050		251	11.	.2	1.0
1	0415		52	55.	27.1	7.6 *	1	1235		152	52.	23.7	7.1 *	1	2055		252	8.	.1	.8
1	0420		53	58.	30.2	8.0 *	1	1240		153	52.	23.4	7.1 *	1	2100		253	5.	.1	.5
1	0425		54	60.	33.1	8.4 *	1	1245		154	52.	23.0	7.1 *	1	2105		254	4.	.1	.3
1	0430		55	62.	35.7	8.7 *	1	1250		155	51.	22.6	7.0 *	1	2110		255	2.	.0	.2
1	0435		56	64.	38.0	9.1 *	1	1255		156	51.	22.3	7.0 *	1	2115		256	1.	.0	.1
1	0440		57	66.	40.0	9.3 *	1	1300		157	51.	21.9	6.9 *	1	2120		257	1.	.0	.1
1	0445		58	67.	41.8	9.6 *	1	1305		158	51.	21.6	6.9 *	1	2125		258	1.	.0	.1
1	0450		59	69.	43.5	9.8 *	1	1310		159	50.	21.2	6.8 *	1	2130		259	0.	.0	.0
1	0455		60	70.	44.9	10.0 *	1	1315		160	50.	20.9	6.8 *	1	2135		260	0.	.0	.0
1	0500		61	70.	46.3	10.1 *	1	1320		161	50.	20.6	6.7 *	1	2140		261	0.	.0	.0
1	0505		62	71.	47.6	10.3 *	1	1325		162	49.	20.2	6.7 *	1	2145		262	0.	.0	.0
1	0510		63	72.	48.9	10.4 *	1	1330		163	49.	19.9	6.6 *	1	2150		263	0.	.0	.0
1	0515		64	72.	50.0	10.6 *	1	1335		164	49.	19.5	6.6 *	1	2155		264	0.	.0	.0
1	0520		65	72.	51.0	10.7 *	1	1340		165	49.	19.2	6.5 *	1	2200		265	0.	.0	.0
1	0525		66	73.	52.0	10.8 *	1	1345		166	48.	18.9	6.5 *	1	2205		266	0.	.0	.0
1	0530		67	73.	52.8	10.9 *	1	1350		167	48.	18.5	6.5 *	1	2210		267	0.	.0	.0
1	0535		68	74.	53.5	11.0 *	1	1355		168	48.	18.2	6.4 *	1	2215		268	0.	.0	.0
1	0540		69	74.	54.1	11.0 *	1	1400		169	47.	17.9	6.4 *	1	2220		269	0.	.0	.0
1	0545		70	74.	54.5	11.1 *	1	1405		170	47.	17.6	6.3 *	1	2225		270	0.	.0	.0
1	0550		71	74.	54.9	11.1 *	1	1410		171	47.	17.2	6.3 *	1	2230		271	0.	.0	.0
1	0555		72	74.	55.1	11.2 *	1	1415		172	47.	16.9	6.2 *	1	2235		272	0.	.0	.0
1	0600		73	74.	55.2	11.2 *	1	1420		173	46.	16.6	6.2 *	1	2240		273	0.	.0	.0
1	0605		74	74.	55.2	11.2 *	1	1425		174	46.	16.3	6.2 *	1	2245		274	0.	.0	.0
1	0610		75	74.	55.2	11.2 *	1	1430		175	46.	16.0	6.1 *	1	2250		275	0.	.0	.0
1	0615		76	74.	55.1	11.2 *	1	1435		176	46.	15.6	6.1 *	1	2255		276	0.	.0	.0
1	0620		77	74.	55.0	11.1 *	1	1440		177	45.	15.3	6.0 *	1	2300		277	0.	.0	.0
1	0625		78	74.	54.8	11.1 *	1	1445		178	45.	15.0	6.0 *	1	2305		278	0.	.0	.0
1	0630		79	74.	54.5	11.1 *	1	1450		179	44.	14.7	5.9 *	1	2310		279	0.	.0	.0
1	0635		80	74.	54.3	11.1 *	1	1455		180	44.	14.4	5.8 *	1	2315		280	0.	.0	.0
1	0640		81	74.	54.0	11.0 *	1	1500		181	43.	14.1	5.7 *	1	2320		281	0.	.0	.0
1	0645		82	74.	53.6	11.0 *	1	1505		182	43.	13.8	5.6 *	1	2325		282	0.	.0	.0
1	0650		83	73.	53.3	10.9 *	1	1510		183	42.	13.5	5.5 *	1	2330		283	0.	.0	.0
1	0655		84	73.	52.9	10.9 *	1	1515		184	42.	13.2	5.5 *	1	2335		284	0.	.0	.0
1	0700		85	73.	52.5	10.9 *	1	1520		185	41.	12.9	5.4 *	1	2340		285	0.	.0	.0
1	0705		86	73.	52.0	10.8 *	1	1525		186	41.	12.7	5.3 *	1	2345		286	0.	.0	.0
1	0710		87	73.	51.6	10.8 *	1	1530		187	40.	12.4	5.2 *	1	2350		287	0.	.0	.0
1	0715		88	73.	51.2	10.7 *	1	1535		188	40.	12.1	5.1 *	1	2355		288	0.	.0	.0
1	0720		89	72.	50.7	10.6 *	1	1540		189	39.	11.8	5.1 *	2	0000		289	0.	.0	.0
1	0725		90	72.	50.2	10.6 *	1	1545		190	39.	11.6	5.0 *	2	0005		290	0.	.0	.0
1	0730		91	72.	49.8	10.5 *	1	1550		191	38.	11.3	4.9 *	2	0010		291	0.	.0	.0
1	0735		92	72.	49.3	10.5 *	1	1555		192	38.	11.0	4.8 *	2	0015		292	0.	.0	.0
1	0740		93	72.	48.8	10.4 *	1	1600		193	38.	10.8	4.8 *	2	0020		293	0.	.0	.0
1	0745		94	71.	48.3	10.4 *	1	1605		194	37.	10.5	4.7 *	2	0025		294	0.	.0	.0
1	0750		95	71.	47.9	10.3 *	1	1610		195	37.	10.3	4.6 *	2	0030		295	0.	.0	.0
1	0755		96	71.	47.4	10.3 *	1	1615		196	36.	10.0	4.5 *	2	0035		296	0.	.0	.0
1	0800		97	71.	46.9	10.2 *	1	1620		197	36.	9.8	4.5 *	2	0040		297	0.	.0	.0
1	0805		98	70.	46.4	10.2 *	1	1625		198	35.	9.5	4.4 *	2	0045		298	0.	.0	.0

1	0810	99	70.	46.0	10.1	*	1	1630	199	35.	9.3	4.3	*	2	0050	299	0.	.0	.0
1	0815	100	70.	45.5	10.0	*	1	1635	200	35.	9.0	4.3	*	2	0055	300	0.	.0	.0

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)					
		(CFS)				
74.	6.08		69.	37.	36.	36.
		(INCHES)	.788	1.702	1.702	1.702
		(AC-FT)	34.	74.	74.	74.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
(AC-FT)	(HR)				
55.	6.08	46.	18.	18.	18.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
(FEET)	(HR)				
11.17	6.08	10.08	5.07	4.88	4.88

CUMULATIVE AREA = .82 SQ MI

HYDROGRAPH AT STATION DET3
PLAN 1, RATIO = .93

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	.0	1		0820	101	67.	41.3	9.5	1		1640	201	31.	7.0	3.7
1		0005	2	0.	.0	.0	1		0825	102	66.	40.8	9.4	1		1645	202	31.	6.8	3.6
1		0010	3	0.	.0	.0	1		0830	103	66.	40.4	9.4	1		1650	203	30.	6.6	3.6
1		0015	4	0.	.0	.0	1		0835	104	66.	39.9	9.3	1		1655	204	30.	6.4	3.5
1		0020	5	0.	.0	.0	1		0840	105	65.	39.5	9.3	1		1700	205	30.	6.2	3.5
1		0025	6	0.	.0	.0	1		0845	106	65.	39.0	9.2	1		1705	206	29.	6.0	3.4
1		0030	7	1.	.0	.1	1		0850	107	65.	38.6	9.1	1		1710	207	29.	5.8	3.4
1		0035	8	2.	.0	.1	1		0855	108	64.	38.2	9.1	1		1715	208	29.	5.6	3.3
1		0040	9	2.	.0	.2	1		0900	109	64.	37.7	9.0	1		1720	209	28.	5.4	3.2
1		0045	10	2.	.0	.2	1		0905	110	63.	37.3	9.0	1		1725	210	28.	5.2	3.2
1		0050	11	2.	.0	.2	1		0910	111	63.	36.8	8.9	1		1730	211	28.	5.0	3.1
1		0055	12	2.	.0	.2	1		0915	112	63.	36.4	8.8	1		1735	212	27.	4.8	3.1
1		0100	13	2.	.0	.2	1		0920	113	62.	36.0	8.8	1		1740	213	27.	4.6	3.0
1		0105	14	2.	.0	.2	1		0925	114	62.	35.5	8.7	1		1745	214	27.	4.5	3.0
1		0110	15	2.	.0	.2	1		0930	115	62.	35.1	8.7	1		1750	215	26.	4.3	2.9
1		0115	16	2.	.0	.2	1		0935	116	61.	34.7	8.6	1		1755	216	26.	4.1	2.9
1		0120	17	2.	.0	.2	1		0940	117	61.	34.3	8.6	1		1800	217	26.	3.9	2.8
1		0125	18	2.	.0	.2	1		0945	118	61.	33.9	8.5	1		1805	218	25.	3.7	2.8
1		0130	19	3.	.0	.3	1		0950	119	60.	33.4	8.4	1		1810	219	25.	3.6	2.7
1		0135	20	4.	.1	.4	1		0955	120	60.	33.0	8.4	1		1815	220	25.	3.4	2.7
1		0140	21	5.	.1	.5	1		1000	121	60.	32.6	8.3	1		1820	221	24.	3.2	2.6
1		0145	22	7.	.1	.6	1		1005	122	59.	32.2	8.3	1		1825	222	24.	3.1	2.6
1		0150	23	8.	.1	.8	1		1010	123	59.	31.8	8.2	1		1830	223	24.	2.9	2.5
1		0155	24	10.	.2	1.0	1		1015	124	59.	31.4	8.2	1		1835	224	24.	2.7	2.5
1		0200	25	11.	.2	1.0	1		1020	125	58.	31.0	8.1	1		1840	225	23.	2.6	2.5
1		0205	26	11.	.2	1.1	1		1025	126	58.	30.6	8.1	1		1845	226	23.	2.4	2.4
1		0210	27	12.	.3	1.1	1		1030	127	58.	30.2	8.0	1		1850	227	23.	2.3	2.4
1		0215	28	12.	.3	1.2	1		1035	128	57.	29.8	8.0	1		1855	228	22.	2.1	2.3
1		0220	29	13.	.4	1.3	1		1040	129	57.	29.4	7.9	1		1900	229	22.	2.0	2.3
1		0225	30	14.	.5	1.4	1		1045	130	57.	29.0	7.9	1		1905	230	22.	1.8	2.2
1		0230	31	15.	.5	1.4	1		1050	131	56.	28.6	7.8	1		1910	231	22.	1.7	2.2
1		0235	32	16.	.6	1.5	1		1055	132	56.	28.2	7.8	1		1915	232	21.	1.5	2.1
1		0240	33	17.	.7	1.7	1		1100	133	56.	27.9	7.7	1		1920	233	21.	1.4	2.1
1		0245	34	18.	.8	1.8	1		1105	134	55.	27.5	7.6	1		1925	234	21.	1.2	2.1
1		0250	35	20.	.9	1.9	1		1110	135	55.	27.1	7.6	1		1930	235	21.	1.1	2.0
1		0255	36	21.	1.0	2.0	1		1115	136	55.	26.7	7.5	1		1935	236	20.	.9	1.9
1		0300	37	21.	1.2	2.1	1		1120	137	54.	26.3	7.5	1		1940	237	18.	.8	1.8
1		0305	38	21.	1.3	2.1	1		1125	138	54.	26.0	7.4	1		1945	238	17.	.7	1.6
1		0310	39	21.	1.5	2.1	1		1130	139	54.	25.6	7.4	1		1950	239	15.	.6	1.5
1		0315	40	22.	1.7	2.2	1		1135	140	54.	25.2	7.3	1		1955	240	14.	.5	1.4
1		0320	41	22.	2.1	2.3	1		1140	141	53.	24.9	7.3	1		2000	241	13.	.4	1.3
1		0325	42	23.	2.6	2.5	1		1145	142	53.	24.5	7.2	1		2005	242	12.	.3	1.2
1		0330	43	25.	3.4	2.7	1		1150	143	53.	24.1	7.2	1		2010	243	11.	.2	1.1
1		0335	44	27.	4.5	3.0	1		1155	144	52.	23.8	7.2	1		2015	244	9.	.1	.9
1		0340	45	29.	6.0	3.4	1		1200	145	52.	23.4	7.1	1		2020	245	6.	.1	.6
1		0345	46	32.	7.9	3.9	1		1205	146	52.	23.0	7.1	1		2025	246	4.	.1	.4
1		0350	47	36.	10.2	4.6	1		1210	147	51.	22.7	7.0	1		2030	247	2.	.0	.2
1		0355	48	41.	12.8	5.3	1		1215	148	51.	22.3	7.0	1		2035	248	2.	.0	.2
1		0400	49	46.	15.7	6.1	1		1220	149	51.	22.0	6.9	1		2040	249	1.	.0	.1
1		0405	50	48.	18.8	6.5	1		1225	150	51.	21.6	6.9	1		2045	250	1.	.0	.1
1		0410	51	51.	22.0	6.9	1		1230	151	50.	21.3	6.8	1		2050	251	0.	.0	.0
1		0415	52	53.	25.1	7.3	1		1235	152	50.	20.9	6.8	1		2055	252	0.	.0	.0
1		0420	53	56.	28.0	7.7	1		1240	153	50.	20.6	6.7	1		2100	253	0.	.0	.0
1		0425	54	58.	30.7	8.1	1		1245	154	49.	20.3	6.7	1		2105	254	0.	.0	.0
1		0430	55	60.	33.2	8.4	1		1250	155	49.	19.9	6.6	1		2110	255	0.	.0	.0
1		0435	56	62.	35.3	8.7	1		1255	156	49.	19.6	6.6	1		2115	256	0.	.0	.0
1		0440	57	63.	37.2	9.0	1		1300	157	49.	19.3	6.5	1		2120	257	0.	.0	.0
1		0445	58	65.	38.9	9.2	1		1305	158	48.	18.9	6.5	1		2125	258	0.	.0	.0
1		0450	59	66.	40.4	9.4	1		1310	159	48.	18.6	6.5	1		2130	259	0.	.0	.0
1		0455	60	67.	41.8	9.6	1		1315	160	48.	18.3	6.4	1		2135	260	0.	.0	.0
1		0500	61	68.	43.1	9.7	1		1320	161	47.	17.9	6.4	1		2140	261	0.	.0	.0
1		0505	62	69.	44.4	9.9	1		1325	162	47.	17.6	6.3	1		2145	262	0.	.0	.0
1		0510	63	70.	45.5	10.1	1		1330	163	47.	17.3	6.3	1		2150	263	0.	.0	.0
1		0515	64	71.	46.5	10.2	1		1335	164	47.	17.0	6.2	1		2155	264	0.	.0	.0
1		0520	65	71.	47.5	10.3	1		1340	165	46.	16.6	6.2	1		2200	265	0.	.0	.0
1		0525	66	71.	48.4	10.4	1		1345	166	46.	16.3	6.2	1		2205	266	0.	.0	.0
1		0530	67	72.	49.2	10.5	1		1350	167	46.	16.0	6.1	1		2210	267	0.	.0	.0
1		0535	68	72.	49.8	10.5	1		1355	168	46.	15.7	6.1	1		2215	268	0.	.0	.0
1		0540	69	72.	50.3	10.6	1		1400	169	45.	15.4	6.0	1		2220	269	0.	.0	.0
1		0545	70	72.	50.8	10.7	1		1405	170	45.	15.1	6.0	1		2225	270	0.	.0	.0
1		0550	71	72.	51.0	10.7	1		1410	171	44.	14.8	5.9	1		2230	271	0.	.0	.0
1		0555	72	73.	51.2	10.7	1		1415	172	44.	14.4	5.8	1		2235	272	0.	.0	.0
1		0600	73	73.	51.3	10.7	1		1420	173	43.	14.1	5.7	1		2240	273	0.	.0	.0
1		0605	74	73.	51.4	10.7	1		1425	174	43.	13.8	5.6	1		2245	274	0.	.0	.0
1		0610	75	73.	51.3	10.7	1		1430	175	42.	13.6	5.6	1		2250	275	0.	.0	.0
1		0615	76	73.	51.2	10.7	1		1435	176	42.	13.3	5.5	1		2255	276	0.	.0	.0
1		0620	77	73.	51.1	10.7	1		1440	177	41.	13.0	5.4	1		2300	277	0.	.0	.0
1		0625	78	72.	50.9	10.7	1		1445	178	41.	12.7	5.3	1		2305	278	0.	.0	.0
1		0630	79	72.	50.6	10.6	1		1450	179	40.	12.4	5.2	1		2310	279	0.	.0	.0
1		0635	80	72.	50.4	10.6	1		1455	180	40.	12.1	5.2	1		2315	280	0.	.0	.0
1		0640	81	72.	50.0	10.6	1		1500	181	39.	11.9	5.1	1		2320	281	0.	.0	.0
1		0645	82	72.	49.7	10.5	1		1505	182	39.	11.6	5.0	1		2325	282	0.	.0	.0
1		0650	83	72.	49.4	10.5	1		1510	183	39.	11.3	4.9	1		2330	283	0.	.0	.0
1		0655	84	72.	49.0	10.4	1		1515	184	38.	11.1	4.8	1		2335	284	0.	.0	.0
1		0700	85	71.	48.6	10.4	1		1520	185	38.	10.8	4.8	1		2340	285	0.	.0	.0
1		0705	86	71.	48.1	10.4	1		1525	186	37.	10.5	4.7	1		2345	286	0.	.0	.0
1		0710	87	71.	47.7	10.3	1		1530	187	37.	10.3	4.6	1		2350	287	0.	.0	.0
1		0715	88	71.	47.3	10.3	1		1535	188	36.	10.0	4.6	1		2355	288	0.	.0	.0
1		0720	89	71.	46.8	10.2	1		1540	189	36.	9.8	4.5	2		0000	289	0.	.0	.0
1		0725	90	70.	46.4	10.2	1		1545	190	35.	9.5	4.4	2		0005	290	0.	.0	.0
1		0730	91	70.	45.9	10.1	1		1550	191	35.	9.3	4.4	2		0010	291	0.	.0	.0
1		0735	92	70.	45.5	10.0	1		1555	192	35.	9.1	4.3	2		0015	292	0.	.0	.0
1		0740	93	70.	45.0	10.0	1		1600	193	34.	8.8	4.2	2		0020	293	0.	.0	.0
1		0745	94	69.	44.5	9.9	1		1605	194	34.	8.6	4.2	2		0025	294	0.	.0	.0
1		0750	95	69.	44.1	9.9	1		1610	195	33.	8.4	4.1	2		0030	295	0.	.0	.0
1		0755	96	69.	43.6	9.8	1		1615	196	33.	8.1	4.0	2		0035	296	0.	.0	.0
1		0800	97	68.	43.1	9.7	1		1620	197	33.	7.9	4.0	2		0040	297	0.	.0	.0
1		0805	98	68.	42.7	9.7	1		1625	198	32.	7.7	3.9	2		0045	298	0.	.0	.0
1		0810	99	68.	42.2	9.6	1		1630	199	32.	7.5	3.8	2		0050	299	0.	.0	.0
1		0815	100	67.	41.8	9.6	1		1635	200	31.	7.2	3.8	2		0055	300	0.	.0	.0

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)	(CFS)				
+ 73.	6.08		67.	35.	34.	34.
		(INCHES)	.763	1.596	1.596	1.596
		(AC-FT)	33.	70.	70.	70.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
+ 51.	6.08	43.	16.	16.	16.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
+ 10.73	6.08	9.64	4.72	4.54	4.54

CUMULATIVE AREA = .82 SQ MI

HYDROGRAPH AT STATION DET3
PLAN 1, RATIO = .91

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	.0	1		0820	101	65.	39.5	9.3	1		1640	201	30.	6.2	3.5
1		0005	2	0.	.0	.0	1		0825	102	65.	39.1	9.2	1		1645	202	29.	6.0	3.4
1		0010	3	0.	.0	.0	1		0830	103	65.	38.6	9.1	1		1650	203	29.	5.8	3.4
1		0015	4	0.	.0	.0	1		0835	104	64.	38.2	9.1	1		1655	204	29.	5.6	3.3
1		0020	5	0.	.0	.0	1		0840	105	64.	37.7	9.0	1		1700	205	28.	5.4	3.3
1		0025	6	0.	.0	.0	1		0845	106	63.	37.3	9.0	1		1705	206	28.	5.2	3.2
1		0030	7	1.	.0	.1	1		0850	107	63.	36.9	8.9	1		1710	207	28.	5.0	3.1
1		0035	8	1.	.0	.1	1		0855	108	63.	36.4	8.8	1		1715	208	27.	4.8	3.1
1		0040	9	2.	.0	.2	1		0900	109	62.	36.0	8.8	1		1720	209	27.	4.7	3.0
1		0045	10	2.	.0	.2	1		0905	110	62.	35.6	8.7	1		1725	210	27.	4.5	3.0
1		0050	11	2.	.0	.2	1		0910	111	62.	35.1	8.7	1		1730	211	26.	4.3	2.9
1		0055	12	2.	.0	.2	1		0915	112	61.	34.7	8.6	1		1735	212	26.	4.1	2.9
1		0100	13	2.	.0	.2	1		0920	113	61.	34.3	8.6	1		1740	213	26.	3.9	2.8
1		0105	14	1.	.0	.1	1		0925	114	61.	33.9	8.5	1		1745	214	25.	3.8	2.8
1		0110	15	1.	.0	.1	1		0930	115	60.	33.5	8.5	1		1750	215	25.	3.6	2.7
1		0115	16	1.	.0	.1	1		0935	116	60.	33.0	8.4	1		1755	216	25.	3.4	2.7
1		0120	17	2.	.0	.2	1		0940	117	60.	32.6	8.3	1		1800	217	24.	3.2	2.6
1		0125	18	2.	.0	.2	1		0945	118	59.	32.2	8.3	1		1805	218	24.	3.1	2.6
1		0130	19	3.	.0	.2	1		0950	119	59.	31.8	8.2	1		1810	219	24.	2.9	2.5
1		0135	20	3.	.1	.3	1		0955	120	59.	31.4	8.2	1		1815	220	24.	2.7	2.5
1		0140	21	5.	.1	.5	1		1000	121	58.	31.0	8.1	1		1820	221	23.	2.6	2.5
1		0145	22	6.	.1	.6	1		1005	122	58.	30.6	8.1	1		1825	222	23.	2.4	2.4
1		0150	23	8.	.1	.7	1		1010	123	58.	30.2	8.0	1		1830	223	23.	2.3	2.4
1		0155	24	9.	.1	.9	1		1015	124	57.	29.8	8.0	1		1835	224	22.	2.1	2.3
1		0200	25	10.	.2	1.0	1		1020	125	57.	29.4	7.9	1		1840	225	22.	2.0	2.3
1		0205	26	11.	.2	1.0	1		1025	126	57.	29.0	7.9	1		1845	226	22.	1.8	2.2
1		0210	27	11.	.2	1.1	1		1030	127	56.	28.6	7.8	1		1850	227	22.	1.7	2.2
1		0215	28	12.	.3	1.1	1		1035	128	56.	28.3	7.8	1		1855	228	21.	1.5	2.2
1		0220	29	12.	.3	1.2	1		1040	129	56.	27.9	7.7	1		1900	229	21.	1.4	2.1
1		0225	30	13.	.4	1.3	1		1045	130	55.	27.5	7.7	1		1905	230	21.	1.2	2.1
1		0230	31	14.	.5	1.4	1		1050	131	55.	27.1	7.6	1		1910	231	21.	1.1	2.0
1		0235	32	15.	.6	1.5	1		1055	132	55.	26.7	7.6	1		1915	232	20.	.9	1.9
1		0240	33	16.	.6	1.6	1		1100	133	54.	26.4	7.5	1		1920	233	18.	.8	1.8
1		0245	34	17.	.7	1.7	1		1105	134	54.	26.0	7.4	1		1925	234	17.	.7	1.6
1		0250	35	19.	.8	1.8	1		1110	135	54.	25.6	7.4	1		1930	235	15.	.6	1.5
1		0255	36	20.	1.0	2.0	1		1115	136	54.	25.2	7.4	1		1935	236	14.	.5	1.4
1		0300	37	21.	1.1	2.0	1		1120	137	53.	24.9	7.3	1		1940	237	13.	.4	1.3
1		0305	38	21.	1.2	2.1	1		1125	138	53.	24.5	7.3	1		1945	238	12.	.3	1.2
1		0310	39	21.	1.4	2.1	1		1130	139	53.	24.1	7.2	1		1950	239	11.	.2	1.1
1		0315	40	22.	1.6	2.2	1		1135	140	52.	23.8	7.2	1		1955	240	9.	.1	.9
1		0320	41	22.	1.9	2.3	1		1140	141	52.	23.4	7.1	1		2000	241	6.	.1	.6
1		0325	42	23.	2.4	2.4	1		1145	142	52.	23.1	7.1	1		2005	242	4.	.1	.4
1		0330	43	24.	3.1	2.6	1		1150	143	51.	22.7	7.0	1		2010	243	2.	.0	.2
1		0335	44	26.	4.2	2.9	1		1155	144	51.	22.4	7.0	1		2015	244	2.	.0	.2
1		0340	45	29.	5.7	3.3	1		1200	145	51.	22.0	6.9	1		2020	245	1.	.0	.1
1		0345	46	32.	7.5	3.8	1		1205	146	51.	21.7	6.9	1		2025	246	1.	.0	.1
1		0350	47	36.	9.7	4.5	1		1210	147	50.	21.3	6.8	1		2030	247	0.	.0	.0
1		0355	48	40.	12.3	5.2	1		1215	148	50.	21.0	6.8	1		2035	248	0.	.0	.0
1		0400	49	45.	15.1	6.0	1		1220	149	50.	20.6	6.7	1		2040	249	0.	.0	.0
1		0405	50	48.	18.1	6.4	1		1225	150	49.	20.3	6.7	1		2045	250	0.	.0	.0
1		0410	51	50.	21.1	6.8	1		1230	151	49.	19.9	6.6	1		2050	251	0.	.0	.0
1		0415	52	53.	24.1	7.2	1		1235	152	49.	19.6	6.6	1		2055	252	0.	.0	.0
1		0420	53	55.	26.9	7.6	1		1240	153	49.	19.3	6.6	1		2100	253	0.	.0	.0
1		0425	54	57.	29.5	7.9	1		1245	154	48.	18.9	6.5	1		2105	254	0.	.0	.0
1		0430	55	59.	31.9	8.2	1		1250	155	48.	18.6	6.5	1		2110	255	0.	.0	.0
1		0435	56	61.	34.0	8.5	1		1255	156	48.	18.3	6.4	1		2115	256	0.	.0	.0
1		0440	57	62.	35.8	8.8	1		1300	157	47.	17.9	6.4	1		2120	257	0.	.0	.0
1		0445	58	64.	37.5	9.0	1		1305	158	47.	17.6	6.3	1		2125	258	0.	.0	.0
1		0450	59	65.	38.9	9.2	1		1310	159	47.	17.3	6.3	1		2130	259	0.	.0	.0
1		0455	60	66.	40.3	9.4	1		1315	160	47.	17.0	6.2	1		2135	260	0.	.0	.0
1		0500	61	67.	41.6	9.5	1		1320	161	46.	16.7	6.2	1		2140	261	0.	.0	.0
1		0505	62	68.	42.7	9.7	1		1325	162	46.	16.3	6.2	1		2145	262	0.	.0	.0
1		0510	63	69.	43.8	9.8	1		1330	163	46.	16.0	6.1	1		2150	263	0.	.0	.0
1		0515	64	70.	44.8	10.0	1		1335	164	46.	15.7	6.1	1		2155	264	0.	.0	.0
1		0520	65	70.	45.8	10.1	1		1340	165	45.	15.4	6.0	1		2200	265	0.	.0	.0
1		0525	66	71.	46.6	10.2	1		1345	166	45.	15.1	6.0	1		2205	266	0.	.0	.0
1		0530	67	71.	47.4	10.3	1		1350	167	45.	14.8	5.9	1		2210	267	0.	.0	.0
1		0535	68	71.	48.0	10.3	1		1355	168	44.	14.5	5.8	1		2215	268	0.	.0	.0
1		0540	69	71.	48.5	10.4	1		1400	169	43.	14.2	5.7	1		2220	269	0.	.0	.0
1		0545	70	72.	48.9	10.4	1		1405	170	43.	13.9	5.6	1		2225	270	0.	.0	.0
1		0550	71	72.	49.2	10.5	1		1410	171	42.	13.6	5.6	1		2230	271	0.	.0	.0
1		0555	72	72.	49.3	10.5	1		1415	172	42.	13.3	5.5	1		2235	272	0.	.0	.0
1		0600	73	72.	49.4	10.5	1		1420	173	41.	13.0	5.4	1		2240	273	0.	.0	.0
1		0605	74	72.	49.4	10.5	1		1425	174	41.	12.7	5.3	1		2245	274	0.	.0	.0
1		0610	75	72.	49.4	10.5	1		1430	175	40.	12.4	5.2	1		2250	275	0.	.0	.0
1		0615	76	72.	49.3	10.5	1		1435	176	40.	12.2	5.2	1		2255	276	0.	.0	.0
1		0620	77	72.	49.1	10.5	1		1440	177	39.	11.9	5.1	1		2300	277	0.	.0	.0
1		0625	78	72.	48.9	10.4	1		1445	178	39.	11.6	5.0	1		2305	278	0.	.0	.0
1		0630	79	71.	48.7	10.4	1		1450	179	39.	11.3	4.9	1		2310	279	0.	.0	.0
1		0635	80	71.	48.4	10.4	1		1455	180	38.	11.1	4.9	1		2315	280	0.	.0	.0
1		0640	81	71.	48.1	10.4	1		1500	181	38.	10.8	4.8	1		2320	281	0.	.0	.0
1		0645	82	71.	47.8	10.3	1		1505	182	37.	10.6	4.7	1		2325	282	0.	.0	.0
1		0650	83	71.	47.4	10.3	1		1510	183	37.	10.3	4.6	1		2330	283	0.	.0	.0
1		0655	84	71.	47.0	10.2	1		1515	184	36.	10.1	4.6	1		2335	284	0.	.0	.0
1		0700	85	71.	46.6	10.2	1		1520	185	36.	9.8	4.5	1		2340	285	0.	.0	.0
1		0705	86	70.	46.2	10.1	1		1525	186	35.	9.6	4.4	1		2345	286	0.	.0	.0
1		0710	87	70.	45.8	10.1	1		1530	187	35.	9.3	4.4	1		2350	287	0.	.0	.0
1		0715	88	70.	45.4	10.0	1		1535	188	35.	9.1	4.3	1		2355	288	0.	.0	.0
1		0720	89	70.	44.9	10.0	1		1540	189	34.	8.8	4.2	2		0000	289	0.	.0	.0
1		0725	90	69.	44.5	9.9	1		1545	190	34.	8.6	4.2	2		0005	290	0.	.0	.0
1		0730	91	69.	44.0	9.9	1		1550	191	33.	8.4	4.1	2		0010	291	0.	.0	.0
1		0735	92	69.	43.6	9.8	1		1555	192	33.	8.1	4.0	2		0015	292	0.	.0	.0
1		0740	93	68.	43.1	9.7	1		1600	193	33.	7.9	4.0	2		0020	293	0.	.0	.0
1		0745	94	68.	42.7	9.7	1		1605	194	32.	7.7	3.9	2		0025	294	0.	.0	.0
1		0750	95	68.	42.2	9.6	1		1610	195	32.	7.5	3.8	2		0030	295	0.	.0	.0
1		0755	96	67.	41.8	9.6	1		1615	196	31.	7.3	3.8	2		0035	296	0.	.0	.0
1		0800	97	67.	41.3	9.5	1		1620	197	31.	7.0	3.7	2		0040	297	0.	.0	.0
1		0805	98	66.	40.9	9.4	1		1625	198	31.	6.8	3.7	2		0045	298	0.	.0	.0
1		0810	99	66.	40.4	9.4	1		1630	199	30.	6.6	3.6	2		0050	299	0.	.0	.0
1		0815	100	66.	40.0	9.3	1		1635	200	30.	6.4	3.5	2		0055	300	0.	.0	.0

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				

		(CFS)				
+ 72.	6.08		66.	34.	33.	33.
		(INCHES)	.750	1.544	1.544	1.544
		(AC-FT)	33.	67.	67.	67.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
49.	6.08	41.	15.	15.	15.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
10.51	6.08	9.42	4.54	4.37	4.37

CUMULATIVE AREA = .82 SQ MI

HYDROGRAPH AT STATION DET3
PLAN 1, RATIO = .90

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000		1	0.	.0	.0
1	0005		2	0.	.0	.0
1	0010		3	0.	.0	.0
1	0015		4	0.	.0	.0
1	0020		5	0.	.0	.0
1	0025		6	0.	.0	.0
1	0030		7	1.	.0	.1
1	0035		8	1.	.0	.1
1	0040		9	2.	.0	.2
1	0045		10	2.	.0	.2
1	0050		11	2.	.0	.2
1	0055		12	2.	.0	.2
1	0100		13	2.	.0	.1
1	0105		14	1.	.0	.1
1	0110		15	1.	.0	.1
1	0115		16	1.	.0	.1
1	0120		17	2.	.0	.2
1	0125		18	2.	.0	.2
1	0130		19	2.	.0	.2
1	0135		20	3.	.1	.3
1	0140		21	4.	.1	.4
1	0145		22	6.	.1	.6
1	0150		23	7.	.1	.7
1	0155		24	9.	.1	.9
1	0200		25	10.	.2	1.0
1	0205		26	11.	.2	1.0
1	0210		27	11.	.2	1.1
1	0215		28	11.	.3	1.1
1	0220		29	12.	.3	1.2
1	0225		30	13.	.4	1.3
1	0230		31	14.	.4	1.3
1	0235		32	15.	.5	1.4
1	0240		33	16.	.6	1.5
1	0245		34	17.	.7	1.6
1	0250		35	18.	.8	1.8
1	0255		36	20.	.9	1.9
1	0300		37	21.	1.0	2.0
1	0305		38	21.	1.2	2.0
1	0310		39	21.	1.3	2.1
1	0315		40	21.	1.5	2.2
1	0320		41	22.	1.8	2.2
1	0325		42	23.	2.3	2.4
1	0330		43	24.	3.0	2.6
1	0335		44	26.	4.1	2.9
1	0340		45	28.	5.5	3.3
1	0345		46	31.	7.3	3.8
1	0350		47	35.	9.5	4.4
1	0355		48	40.	12.0	5.1
1	0400		49	44.	14.7	5.9
1	0405		50	47.	17.7	6.3
1	0410		51	50.	20.7	6.7
1	0415		52	52.	23.6	7.1
1	0420		53	54.	26.4	7.5
1	0425		54	57.	29.0	7.8
1	0430		55	59.	31.3	8.2
1	0435		56	60.	33.3	8.4
1	0440		57	62.	35.1	8.7
1	0445		58	63.	36.8	8.9
1	0450		59	64.	38.2	9.1
1	0455		60	65.	39.5	9.3
1	0500		61	66.	40.8	9.4
1	0505		62	67.	41.9	9.6
1	0510		63	68.	43.0	9.7
1	0515		64	69.	44.0	9.9
1	0520		65	70.	44.9	10.0
1	0525		66	70.	45.8	10.1
1	0530		67	71.	46.5	10.2
1	0535		68	71.	47.1	10.2
1	0540		69	71.	47.6	10.3
1	0545		70	71.	48.0	10.3
1	0550		71	71.	48.2	10.4
1	0555		72	71.	48.4	10.4
1	0600		73	71.	48.5	10.4
1	0605		74	71.	48.5	10.4
1	0610		75	71.	48.4	10.4
1	0615		76	71.	48.3	10.4
1	0620		77	71.	48.2	10.4
1	0625		78	71.	48.0	10.3
1	0630		79	71.	47.7	10.3
1	0635		80	71.	47.5	10.3
1	0640		81	71.	47.2	10.2
1	0645		82	71.	46.8	10.2
1	0650		83	71.	46.5	10.2
1	0655		84	70.	46.1	10.1
1	0700		85	70.	45.7	10.1
1	0705		86	70.	45.3	10.0
1	0710		87	70.	44.9	10.0
1	0715		88	69.	44.4	9.9
1	0720		89	69.	44.0	9.9
1	0725		90	69.	43.5	9.8
1	0730		91	68.	43.1	9.7
1	0735		92	68.	42.6	9.7
1	0740		93	68.	42.2	9.6
1	0745		94	67.	41.8	9.6
1	0750		95	67.	41.3	9.5
1	0755		96	66.	40.9	9.4
1	0800		97	66.	40.4	9.4
1	0805		98	66.	40.0	9.3
1	0810		99	65.	39.5	9.3
1	0815		100	65.	39.1	9.2
1	0820		101	65.	38.6	9.1
1	0825		102	64.	38.2	9.1
1	0830		103	64.	37.7	9.0
1	0835		104	63.	37.3	9.0
1	0840		105	63.	36.9	8.9
1	0845		106	63.	36.4	8.8
1	0850		107	62.	36.0	8.8
1	0855		108	62.	35.6	8.7
1	0900		109	62.	35.2	8.7
1	0905		110	61.	34.7	8.6
1	0910		111	61.	34.3	8.6
1	0915		112	61.	33.9	8.5
1	0920		113	60.	33.5	8.5
1	0925		114	60.	33.1	8.4
1	0930		115	60.	32.6	8.3
1	0935		116	59.	32.2	8.3
1	0940		117	59.	31.8	8.2
1	0945		118	59.	31.4	8.2
1	0950		119	58.	31.0	8.1
1	0955		120	58.	30.6	8.1
1	1000		121	58.	30.2	8.0
1	1005		122	57.	29.8	8.0
1	1010		123	57.	29.4	7.9
1	1015		124	57.	29.0	7.9
1	1020		125	56.	28.7	7.8
1	1025		126	56.	28.3	7.8
1	1030		127	56.	27.9	7.7
1	1035		128	55.	27.5	7.7
1	1040		129	55.	27.1	7.6
1	1045		130	55.	26.7	7.6
1	1050		131	54.	26.4	7.5
1	1055		132	54.	26.0	7.5
1	1100		133	54.	25.6	7.4
1	1105		134	54.	25.3	7.4
1	1110		135	53.	24.9	7.3
1	1115		136	53.	24.5	7.3
1	1120		137	53.	24.2	7.2
1	1125		138	52.	23.8	7.2
1	1130		139	52.	23.4	7.1
1	1135		140	52.	23.1	7.1
1	1140		141	51.	22.7	7.0
1	1145		142	51.	22.4	7.0
1	1150		143	51.	22.0	6.9
1	1155		144	51.	21.7	6.9
1	1200		145	50.	21.3	6.8
1	1205		146	50.	21.0	6.8
1	1210		147	50.	20.6	6.7
1	1215		148	49.	20.3	6.7
1	1220		149	49.	20.0	6.6
1	1225		150	49.	19.6	6.6
1	1230		151	49.	19.3	6.6
1	1235		152	48.	18.9	6.5
1	1240		153	48.	18.6	6.5
1	1245		154	48.	18.3	6.4
1	1250		155	47.	18.0	6.4
1	1255		156	47.	17.6	6.3
1	1300		157	47.	17.3	6.3
1	1305		158	47.	17.0	6.2
1	1310		159	46.	16.7	6.2
1	1315		160	46.	16.3	6.2
1	1320		161	46.	16.0	6.1
1	1325		162	46.	15.7	6.1
1	1330		163	45.	15.4	6.0
1	1335		164	45.	15.1	6.0
1	1340		165	45.	14.8	5.9
1	1345		166	44.	14.5	5.8
1	1350		167	43.	14.2	5.7
1	1355		168	43.	13.9	5.6
1	1400		169	42.	13.6	5.6
1	1405		170	42.	13.3	5.5
1	1410		171	41.	13.0	5.4
1	1415		172	41.	12.7	5.3
1	1420		173	40.	12.4	5.2
1	1425		174	40.	12.2	5.2
1	1430		175	39.	11.9	5.1
1	1435		176	39.	11.6	5.0
1	1440		177	39.	11.3	4.9
1	1445		178	38.	11.1	4.9
1	1450		179	38.	10.8	4.8
1	1455		180	37.	10.6	4.7
1	1500		181	37.	10.3	4.6
1	1505		182	36.	10.1	4.6
1	1510		183	36.	9.8	4.5
1	1515		184	35.	9.6	4.4
1	1520		185	35.	9.3	4.4
1	1525		186	35.	9.1	4.3
1	1530		187	34.	8.8	4.2
1	1535		188	34.	8.6	4.2
1	1540		189	33.	8.4	4.1
1	1545		190	33.	8.2	4.0
1	1550		191	33.	7.9	4.0
1	1555		192	32.	7.7	3.9
1	1600		193	32.	7.5	3.8
1	1605		194	31.	7.3	3.8
1	1610		195	31.	7.0	3.7
1	1615		196	31.	6.8	3.7
1	1620		197	30.	6.6	3.6
1	1625		198	30.	6.4	3.5
1	1630		199	30.	6.2	3.5
1	1635		200	29.	6.0	3.4
1	1640		201	29.	5.8	3.4
1	1645		202	29.	5.6	3.3
1	1650		203	28.	5.4	3.3
1	1655		204	28.	5.2	3.2
1	1700		205	28.	5.0	3.1
1	1705		206	27.	4.8	3.1
1	1710		207	27.	4.7	3.0
1	1715		208	27.	4.5	3.0
1	1720		209	26.	4.3	2.9
1	1725		210	26.	4.1	2.9
1	1730		211	26.	3.9	2.8
1	1735		212	25.	3.8	2.8
1	1740		213	25.	3.6	2.7
1	1745		214	25.	3.4	2.7
1	1750		215	24.	3.2	2.6
1	1755		216	24.	3.1	2.6
1	1800		217	24.	2.9	2.5
1	1805		218	24.	2.8	2.5
1	1810		219	23.	2.6	2.5
1	1815		220	23.	2.4	2.4
1	1820		221	23.	2.3	2.4
1	1825		222	22.	2.1	2.3
1	1830		223	22.	2.0	2.3
1	1835		224	22.	1.8	2.2
1	1840		225	22.	1.7	2.2
1	1845		226	21.	1.5	2.2
1	1850		227	21.	1.4	2.1
1	1855		228	21.	1.2	2.1
1	1900		229	21.	1.1	2.0
1	1905		230	20.	.9	2.0
1	1910		231	18.	.8	1.8
1	1915		232	17.	.7	1.6
1	1920		233	15.	.6	1.5
1	1925		234	14.	.5	1.4
1	1930		235	13.	.4	1.3
1	1935		236	12.	.3	1.2
1	1940		237	11.	.2	1.1
1	1945		238	9.	.1	.9
1	1950		239	6.	.1	.6
1	1955		240	4.	.1	.4
2	2000		241	3.	.0	.2
2	2005		242	2.	.0	.2
2	2010		243	1.	.0	.1
2	2015		244	1.	.0	.1
2	2020		245	0.	.0	.0
2	2025		246	0.	.0	.0
2	2030		247	0.	.0	.0
2	2035		248	0.	.0	.0
2	2040		249	0.	.0	.0
2	2045		250	0.	.0	.0
2	2050		251	0.	.0	.0
2	2055		252	0.	.0	.0
2	2100		253	0.	.0	.0
2	2105		254	0.	.0	.0
2	2110		255	0.	.0	.0
2	2115		256	0.	.0	.0
2	2120		257	0.	.0	.0
2	2125		258	0.	.0	.0
2	2130		259	0.	.0	.0
2	2135		260	0.	.0	.0
2	2140		261	0.	.0	.0
2	2145		262	0.	.0	.0
2	2150		263	0.	.0	.0
2	2155		264	0.	.0	.0
2	2200		265	0.	.0	.0
2	2205		266	0.	.0	.0
2	2210		267	0.	.0	.0
2	2215		268	0.	.0	.0
2	2220		269	0.	.0	.0
2	2225		270	0.	.0	.0
2	2230		271	0.	.0	.0
2	2235		272	0.	.0	.0
2	2240		273	0.	.0	.0
2	2245		274	0.	.0	.0
2	2250		275	0.	.0	.0
2	2255		276	0.	.0	.0
2	2300		277	0.	.0	.0
2	2305		278	0.	.0	.0
2	2310		279	0.	.0	.0
2	2315		280	0.	.0	.0
2	2320		281	0.	.0	.0
2	2325		282	0.	.0	.0
2	2330		283	0.	.0	.0
2	2335		284	0.	.0	.0
2	2340		285	0.	.0	.0
2	2345		286	0.	.0	.0
2	2350		287	0.	.0	.0
2	2355		288	0.	.0	.0
2	0000		289	0.	.0	.0
2	0005		290	0.	.0	.0
2	0010		291	0.	.0	.0
2	0015		292	0.	.0	.0
2	0020		293	0.	.0	.0
2	0025		294	0.	.0	.0
2	0030		295	0.	.0	.0
2	0035		296	0.	.0	.0
2	0040		297	0.	.0	.0
2	0045		298	0.	.0	.0
2	0050		299	0.	.0	.0
2	0055		300	0.	.0	.0

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 71.	6.08		65.	33.	32.	32.
		(INCHES)	.743	1.518	1.518	1.518
		(AC-FT)	32.	66.	66.	66.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
48.	6.08	40.	15.	15.	15.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
10.40	6.08	9.31	4.46	4.29	4.29

CUMULATIVE AREA = .82 SQ MI

HYDROGRAPH AT STATION DET3
PLAN 1, RATIO = .70

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	.0
1		0005	2	0.	.0	.0
1		0010	3	0.	.0	.0
1		0015	4	0.	.0	.0
1		0020	5	0.	.0	.0
1		0025	6	0.	.0	.0
1		0030	7	0.	.0	.0
1		0035	8	1.	.0	.1
1		0040	9	1.	.0	.1
1		0045	10	1.	.0	.1
1		0050	11	1.	.0	.1
1		0055	12	1.	.0	.1
1		0100	13	1.	.0	.1
1		0105	14	0.	.0	.0
1		0110	15	0.	.0	.0
1		0115	16	0.	.0	.0
1		0120	17	0.	.0	.0
1		0125	18	1.	.0	.1
1		0130	19	1.	.0	.1
1		0135	20	1.	.0	.1
1		0140	21	1.	.0	.1
1		0145	22	2.	.0	.2
1		0150	23	2.	.0	.2
1		0155	24	3.	.0	.3
1		0200	25	3.	.1	.3
1		0205	26	3.	.1	.3
1		0210	27	4.	.1	.4
1		0215	28	4.	.1	.4
1		0220	29	5.	.1	.5
1		0225	30	6.	.1	.6
1		0230	31	7.	.1	.7
1		0235	32	9.	.1	.8
1		0240	33	10.	.2	.9
1		0245	34	10.	.2	1.0
1		0250	35	11.	.2	1.1
1		0255	36	11.	.3	1.1
1		0300	37	12.	.3	1.2
1		0305	38	13.	.4	1.2
1		0310	39	13.	.4	1.3
1		0315	40	15.	.5	1.4
1		0320	41	17.	.7	1.6
1		0325	42	20.	.9	1.9
1		0330	43	21.	1.3	2.1
1		0335	44	22.	2.0	2.3
1		0340	45	24.	2.8	2.5
1		0345	46	26.	4.0	2.8
1		0350	47	28.	5.4	3.2
1		0355	48	31.	7.0	3.7
1		0400	49	34.	8.8	4.2
1		0405	50	37.	10.7	4.7
1		0410	51	41.	12.6	5.3
1		0415	52	44.	14.6	5.8
1		0420	53	46.	16.4	6.2
1		0425	54	48.	18.1	6.4
1		0430	55	49.	19.6	6.6
1		0435	56	50.	20.9	6.8
1		0440	57	51.	22.1	6.9
1		0445	58	52.	23.2	7.1
1		0450	59	53.	24.1	7.2
1		0455	60	53.	25.0	7.3
1		0500	61	54.	25.8	7.4
1		0505	62	55.	26.5	7.5
1		0510	63	55.	27.2	7.6
1		0515	64	56.	27.9	7.7
1		0520	65	56.	28.5	7.8
1		0525	66	57.	29.0	7.9
1		0530	67	57.	29.5	7.9
1		0535	68	57.	29.9	8.0
1		0540	69	58.	30.2	8.0
1		0545	70	58.	30.4	8.0
1		0550	71	58.	30.6	8.1
1		0555	72	58.	30.6	8.1
1		0600	73	58.	30.6	8.1
1		0605	74	58.	30.6	8.1
1		0610	75	58.	30.5	8.1
1		0615	76	58.	30.4	8.0
1		0620	77	58.	30.2	8.0
1		0625	78	57.	30.0	8.0
1		0630	79	57.	29.8	8.0
1		0635	80	57.	29.6	7.9
1		0640	81	57.	29.3	7.9
1		0645	82	57.	29.0	7.9
1		0650	83	56.	28.7	7.8
1		0655	84	56.	28.4	7.8
1		0700	85	56.	28.1	7.7
1		0705	86	56.	27.8	7.7
1		0710	87	55.	27.4	7.6
1		0715	88	55.	27.1	7.6
1		0720	89	55.	26.7	7.6
1		0725	90	54.	26.4	7.5
1		0730	91	54.	26.0	7.5
1		0735	92	54.	25.7	7.4
1		0740	93	54.	25.3	7.4
1		0745	94	53.	25.0	7.3
1		0750	95	53.	24.6	7.3
1		0755	96	53.	24.2	7.2
1		0800	97	52.	23.9	7.2
1		0805	98	52.	23.5	7.1
1		0810	99	52.	23.2	7.1
1		0815	100	52.	22.8	7.0
1		0820	101	51.	22.5	7.0
1		0825	102	51.	22.1	6.9
1		0830	103	51.	21.8	6.9
1		0835	104	50.	21.4	6.8
1		0840	105	50.	21.1	6.8
1		0845	106	50.	20.7	6.7
1		0850	107	50.	20.4	6.7
1		0855	108	49.	20.1	6.7
1		0900	109	49.	19.7	6.6
1		0905	110	49.	19.4	6.6
1		0910	111	48.	19.1	6.5
1		0915	112	48.	18.7	6.5
1		0920	113	48.	18.4	6.4
1		0925	114	48.	18.1	6.4
1		0930	115	47.	17.7	6.3
1		0935	116	47.	17.4	6.3
1		0940	117	47.	17.1	6.3
1		0945	118	47.	16.8	6.2
1		0950	119	46.	16.4	6.2
1		0955	120	46.	16.1	6.1
1		1000	121	46.	15.8	6.1
1		1005	122	45.	15.5	6.0
1		1010	123	45.	15.2	6.0
1		1015	124	45.	14.9	5.9
1		1020	125	44.	14.6	5.8
1		1025	126	44.	14.3	5.8
1		1030	127	43.	14.0	5.7
1		1035	128	43.	13.7	5.6
1		1040	129	42.	13.4	5.5
1		1045	130	42.	13.1	5.4
1		1050	131	41.	12.8	5.3
1		1055	132	41.	12.5	5.3
1		1100	133	40.	12.3	5.2
1		1105	134	40.	12.0	5.1
1		1110	135	39.	11.7	5.0
1		1115	136	39.	11.4	5.0
1		1120	137	38.	11.2	4.9
1		1125	138	38.	10.9	4.8
1		1130	139	37.	10.7	4.7
1		1135	140	37.	10.4	4.7
1		1140	141	36.	10.1	4.6
1		1145	142	36.	9.9	4.5
1		1150	143	36.	9.6	4.4
1		1155	144	35.	9.4	4.4
1		1200	145	35.	9.2	4.3
1		1205	146	34.	8.9	4.2
1		1210	147	34.	8.7	4.2
1		1215	148	34.	8.5	4.1
1		1220	149	33.	8.2	4.0
1		1225	150	33.	8.0	4.0
1		1230	151	32.	7.8	3.9
1		1235	152	32.	7.6	3.9
1		1240	153	32.	7.3	3.8
1		1245	154	31.	7.1	3.7
1		1250	155	31.	6.9	3.7
1		1255	156	30.	6.7	3.6
1		1300	157	30.	6.5	3.6
1		1305	158	30.	6.3	3.5
1		1310	159	29.	6.1	3.4
1		1315	160	29.	5.9	3.4
1		1320	161	29.	5.7	3.3
1		1325	162	28.	5.5	3.3
1		1330	163	28.	5.3	3.2
1		1335	164	28.	5.1	3.2
1		1340	165	27.	4.9	3.1
1		1345	166	27.	4.7	3.1
1		1350	167	27.	4.5	3.0
1		1355	168	26.	4.4	3.0
1		1400	169	26.	4.2	2.9
1		1405	170	26.	4.0	2.9
1		1410	171	25.	3.8	2.8
1		1415	172	25.	3.6	2.8
1		1420	173	25.	3.5	2.7
1		1425	174	25.	3.3	2.7
1		1430	175	24.	3.1	2.6
1		1435	176	24.	3.0	2.6
1		1440	177	24.	2.8	2.5
1		1445	178	23.	2.6	2.5
1		1450	179	23.	2.5	2.4
1		1455	180	23.	2.3	2.4
1		1500	181	23.	2.2	2.3
1		1505	182	22.	2.0	2.3
1		1510	183	22.	1.9	2.2
1		1515	184	22.	1.7	2.2
1		1520	185	21.	1.6	2.2
1		1525	186	21.	1.4	2.1
1		1530	187	21.	1.3	2.1
1		1535	188	21.	1.1	2.0
1		1540	189	20.	1.0	2.0
1		1545	190	19.	.9	1.8
1		1550	191	17.	.7	1.7
1		1555	192	16.	.6	1.5
1		1600	193	15.	.5	1.4
1		1605	194	13.	.4	1.3
1		1610	195	12.	.3	1.2
1		1615	196	11.	.2	1.1
1		1620	197	10.	.2	1.0
1		1625	198	7.	.1	.7
1		1630	199	4.	.1	.4
1		1635	200	3.	.0	.3
1		1640	201	2.	.0	.2
1		1645	202	1.	.0	.1
1		1650	203	1.	.0	.1
1		1655	204	1.	.0	.1
1		1700	205	0.	.0	.0
1		1705	206	0.	.0	.0
1		1710	207	0.	.0	.0
1		1715	208	0.	.0	.0
1		1720	209	0.	.0	.0
1		1725	210	0.	.0	.0
1		1730	211	0.	.0	.0
1		1735	212	0.	.0	.0
1		1740	213	0.	.0	.0
1		1745	214	0.	.0	.0
1		1750	215	0.	.0	.0
1		1755	216	0.	.0	.0
1		1800	217	0.	.0	.0
1		1805	218	0.	.0	.0
1		1810	219	0.	.0	.0
1		1815	220	0.	.0	.0
1		1820	221	0.	.0	.0
1		1825	222	0.	.0	.0
1		1830	223	0.	.0	.0
1		1835	224	0.	.0	.0
1		1840	225	0.	.0	.0
1		1845	226	0.	.0	.0
1		1850	227	0.	.0	.0
1		1855	228	0.	.0	.0
1		1900	229	0.	.0	.0
1		1905	230	0.	.0	.0
1		1910	231	0.	.0	.0
1		1915	232	0.	.0	.0
1		1920	233	0.	.0	.0
1		1925	234	0.	.0	.0
1		1930	235	0.	.0	.0
1		1935	236	0.	.0	.0
1		1940	237	0.	.0	.0
1		1945	238	0.	.0	.0
1		1950	239	0.	.0	.0
1		1955	240	0.	.0	.0
1		2000	241	0.	.0	.0
1		2005	242	0.	.0	.0
1		2010	243	0.	.0	.0
1		2015	244	0.	.0	.0
1		2020	245	0.	.0	.0
1		2025	246	0.	.0	.0
1		2030	247	0.	.0	.0
1		2035	248	0.	.0	.0
1		2040	249	0.	.0	.0
1		2045	250	0.	.0	.0
1		2050	251	0.	.0	.0
1		2055	252	0.	.0	.0
1		2100	253	0.	.0	.0
1		2105	254	0.	.0	.0
1		2110	255	0.	.0	.0
1		2115	256	0.	.0	.0
1		2120	257	0.	.0	.0
1		2125	258	0.	.0	.0
1		2130	259	0.	.0	.0
1		2135	260	0.	.0	.0
1		2140	261	0.	.0	.0
1		2145	262	0.	.0	.0
1		2150	263	0.	.0	.0
1		2155	264	0.	.0	.0
1		2200	265	0.	.0	.0
1		2205	266	0.	.0	.0
1		2210	267	0.	.0	.0
1		2215	268	0.	.0	.0
1		2220	269	0.	.0	.0
1		2225	270	0.	.0	.0
1		2230	271	0.	.0	.0
1		2235	272	0.	.0	.0
1		2240	273	0.	.0	.0
1		2245	274	0.	.0	.0
1		2250	275	0.	.0	.0
1		2255	276	0.	.0	.0
1		2300	277	0.	.0	.0
1		2305	278	0.	.0	.0
1		2310	279	0.	.0	.0
1		2315	280	0.	.0	.0
1		2320	281	0.	.0	.0
1		2325	282	0.	.0	.0
1		2330	283	0.	.0	.0
1		2335	284	0.	.0	.0
1		2340	285	0.	.0	.0
1		2345	286	0.	.0	.0
1		2350	287	0.	.0	.0
1		2355	288	0.	.0	.0
1		0000	289	0.	.0	.0
1		0005	290	0.	.0	.0
1		0010	291	0.	.0	.0
1		0015	292	0.	.0	.0
1		0020	293	0.	.0	.0
1		0025	294	0.	.0	.0
1		0030	295	0.	.0	.0
1		0035	296	0.	.0	.0
1		0040	297	0.	.0	.0
1		0045	298	0.	.0	.0
1		0050	299	0.	.0	.0
1		0055	300	0.	.0	.0

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)	(CFS)				
+ 58.	6.00		52.	22.	21.	21.
		(INCHES)	.596	1.012	1.012	1.012
		(AC-FT)	26.	44.	44.	44.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				

31.	6.00	24.	8.	8.	8.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
8.07	6.00	7.18	2.86	2.76	2.76

CUMULATIVE AREA = .82 SQ MI

HYDROGRAPH AT STATION DET3
PLAN 1, RATIO = .57

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	.0	1		0820	101	41.	12.9	5.4	1		1640	201	0.	.0	.0
1		0005	2	0.	.0	.0	1		0825	102	41.	12.6	5.3	1		1645	202	0.	.0	.0
1		0010	3	0.	.0	.0	1		0830	103	40.	12.4	5.2	1		1650	203	0.	.0	.0
1		0015	4	0.	.0	.0	1		0835	104	40.	12.1	5.1	1		1655	204	0.	.0	.0
1		0020	5	0.	.0	.0	1		0840	105	39.	11.8	5.1	1		1700	205	0.	.0	.0
1		0025	6	0.	.0	.0	1		0845	106	39.	11.5	5.0	1		1705	206	0.	.0	.0
1		0030	7	0.	.0	.0	1		0850	107	38.	11.3	4.9	1		1710	207	0.	.0	.0
1		0035	8	0.	.0	.0	1		0855	108	38.	11.0	4.8	1		1715	208	0.	.0	.0
1		0040	9	0.	.0	.0	1		0900	109	38.	10.8	4.8	1		1720	209	0.	.0	.0
1		0045	10	0.	.0	.0	1		0905	110	37.	10.5	4.7	1		1725	210	0.	.0	.0
1		0050	11	0.	.0	.0	1		0910	111	37.	10.2	4.6	1		1730	211	0.	.0	.0
1		0055	12	0.	.0	.0	1		0915	112	36.	10.0	4.5	1		1735	212	0.	.0	.0
1		0100	13	0.	.0	.0	1		0920	113	36.	9.7	4.5	1		1740	213	0.	.0	.0
1		0105	14	0.	.0	.0	1		0925	114	35.	9.5	4.4	1		1745	214	0.	.0	.0
1		0110	15	0.	.0	.0	1		0930	115	35.	9.3	4.3	1		1750	215	0.	.0	.0
1		0115	16	0.	.0	.0	1		0935	116	34.	9.0	4.3	1		1755	216	0.	.0	.0
1		0120	17	0.	.0	.0	1		0940	117	34.	8.8	4.2	1		1800	217	0.	.0	.0
1		0125	18	0.	.0	.0	1		0945	118	34.	8.5	4.1	1		1805	218	0.	.0	.0
1		0130	19	0.	.0	.0	1		0950	119	33.	8.3	4.1	1		1810	219	0.	.0	.0
1		0135	20	1.	.0	.1	1		0955	120	33.	8.1	4.0	1		1815	220	0.	.0	.0
1		0140	21	1.	.0	.1	1		1000	121	32.	7.9	3.9	1		1820	221	0.	.0	.0
1		0145	22	1.	.0	.1	1		1005	122	32.	7.6	3.9	1		1825	222	0.	.0	.0
1		0150	23	1.	.0	.1	1		1010	123	32.	7.4	3.8	1		1830	223	0.	.0	.0
1		0155	24	1.	.0	.1	1		1015	124	31.	7.2	3.8	1		1835	224	0.	.0	.0
1		0200	25	1.	.0	.1	1		1020	125	31.	7.0	3.7	1		1840	225	0.	.0	.0
1		0205	26	1.	.0	.1	1		1025	126	31.	6.8	3.6	1		1845	226	0.	.0	.0
1		0210	27	1.	.0	.1	1		1030	127	30.	6.6	3.6	1		1850	227	0.	.0	.0
1		0215	28	1.	.0	.1	1		1035	128	30.	6.4	3.5	1		1855	228	0.	.0	.0
1		0220	29	1.	.0	.1	1		1040	129	29.	6.2	3.5	1		1900	229	0.	.0	.0
1		0225	30	2.	.0	.2	1		1045	130	29.	6.0	3.4	1		1905	230	0.	.0	.0
1		0230	31	2.	.0	.2	1		1050	131	29.	5.8	3.3	1		1910	231	0.	.0	.0
1		0235	32	3.	.0	.3	1		1055	132	28.	5.6	3.3	1		1915	232	0.	.0	.0
1		0240	33	4.	.1	.3	1		1100	133	28.	5.4	3.2	1		1920	233	0.	.0	.0
1		0245	34	4.	.1	.4	1		1105	134	28.	5.2	3.2	1		1925	234	0.	.0	.0
1		0250	35	5.	.1	.5	1		1110	135	27.	5.0	3.1	1		1930	235	0.	.0	.0
1		0255	36	6.	.1	.6	1		1115	136	27.	4.8	3.1	1		1935	236	0.	.0	.0
1		0300	37	7.	.1	.7	1		1120	137	27.	4.6	3.0	1		1940	237	0.	.0	.0
1		0305	38	8.	.1	.8	1		1125	138	26.	4.4	3.0	1		1945	238	0.	.0	.0
1		0310	39	9.	.1	.9	1		1130	139	26.	4.2	2.9	1		1950	239	0.	.0	.0
1		0315	40	10.	.2	1.0	1		1135	140	26.	4.1	2.9	1		1955	240	0.	.0	.0
1		0320	41	11.	.3	1.1	1		1140	141	26.	3.9	2.8	1		2000	241	0.	.0	.0
1		0325	42	13.	.4	1.3	1		1145	142	25.	3.7	2.8	1		2005	242	0.	.0	.0
1		0330	43	16.	.7	1.6	1		1150	143	25.	3.5	2.7	1		2010	243	0.	.0	.0
1		0335	44	21.	1.0	2.0	1		1155	144	25.	3.4	2.7	1		2015	244	0.	.0	.0
1		0340	45	22.	1.6	2.2	1		1200	145	24.	3.2	2.6	1		2020	245	0.	.0	.0
1		0345	46	23.	2.3	2.4	1		1205	146	24.	3.0	2.6	1		2025	246	0.	.0	.0
1		0350	47	24.	3.2	2.6	1		1210	147	24.	2.9	2.5	1		2030	247	0.	.0	.0
1		0355	48	26.	4.3	2.9	1		1215	148	23.	2.7	2.5	1		2035	248	0.	.0	.0
1		0400	49	28.	5.5	3.3	1		1220	149	23.	2.5	2.4	1		2040	249	0.	.0	.0
1		0405	50	31.	6.8	3.6	1		1225	150	23.	2.4	2.4	1		2045	250	0.	.0	.0
1		0410	51	33.	8.1	4.0	1		1230	151	23.	2.2	2.4	1		2050	251	0.	.0	.0
1		0415	52	35.	9.4	4.4	1		1235	152	22.	2.1	2.3	1		2055	252	0.	.0	.0
1		0420	53	37.	10.7	4.7	1		1240	153	22.	1.9	2.3	1		2100	253	0.	.0	.0
1		0425	54	39.	11.8	5.1	1		1245	154	22.	1.8	2.2	1		2105	254	0.	.0	.0
1		0430	55	41.	12.8	5.4	1		1250	155	22.	1.6	2.2	1		2110	255	0.	.0	.0
1		0435	56	43.	13.8	5.6	1		1255	156	21.	1.5	2.1	1		2115	256	0.	.0	.0
1		0440	57	44.	14.5	5.8	1		1300	157	21.	1.3	2.1	1		2120	257	0.	.0	.0
1		0445	58	45.	15.2	6.0	1		1305	158	21.	1.2	2.1	1		2125	258	0.	.0	.0
1		0450	59	46.	15.9	6.1	1		1310	159	21.	1.0	2.0	1		2130	259	0.	.0	.0
1		0455	60	46.	16.4	6.2	1		1315	160	20.	.9	1.9	1		2135	260	0.	.0	.0
1		0500	61	47.	17.0	6.2	1		1320	161	18.	.8	1.7	1		2140	261	0.	.0	.0
1		0505	62	47.	17.5	6.3	1		1325	162	16.	.7	1.6	1		2145	262	0.	.0	.0
1		0510	63	48.	18.0	6.4	1		1330	163	15.	.5	1.5	1		2150	263	0.	.0	.0
1		0515	64	48.	18.4	6.4	1		1335	164	14.	.4	1.3	1		2155	264	0.	.0	.0
1		0520	65	48.	18.8	6.5	1		1340	165	13.	.4	1.2	1		2200	265	0.	.0	.0
1		0525	66	48.	19.1	6.5	1		1345	166	12.	.3	1.1	1		2205	266	0.	.0	.0
1		0530	67	49.	19.4	6.6	1		1350	167	11.	.2	1.0	1		2210	267	0.	.0	.0
1		0535	68	49.	19.7	6.6	1		1355	168	8.	.1	.8	1		2215	268	0.	.0	.0
1		0540	69	49.	19.9	6.6	1		1400	169	5.	.1	.5	1		2220	269	0.	.0	.0
1		0545	70	49.	20.0	6.6	1		1405	170	3.	.1	.3	1		2225	270	0.	.0	.0
1		0550	71	49.	20.0	6.7	1		1410	171	2.	.0	.2	1		2230	271	0.	.0	.0
1		0555	72	49.	20.1	6.7	1		1415	172	1.	.0	.1	1		2235	272	0.	.0	.0
1		0600	73	49.	20.0	6.7	1		1420	173	1.	.0	.1	1		2240	273	0.	.0	.0
1		0605	74	49.	19.9	6.6	1		1425	174	1.	.0	.1	1		2245	274	0.	.0	.0
1		0610	75	49.	19.8	6.6	1		1430	175	0.	.0	.0	1		2250	275	0.	.0	.0
1		0615	76	49.	19.7	6.6	1		1435	176	0.	.0	.0	1		2255	276	0.	.0	.0
1		0620	77	49.	19.5	6.6	1		1440	177	0.	.0	.0	1		2300	277	0.	.0	.0
1		0625	78	49.	19.4	6.6	1		1445	178	0.	.0	.0	1		2305	278	0.	.0	.0
1		0630	79	48.	19.2	6.5	1		1450	179	0.	.0	.0	1		2310	279	0.	.0	.0
1		0635	80	48.	18.9	6.5	1		1455	180	0.	.0	.0	1		2315	280	0.	.0	.0
1		0640	81	48.	18.7	6.5	1		1500	181	0.	.0	.0	1		2320	281	0.	.0	.0
1		0645	82	48.	18.5	6.4	1		1505	182	0.	.0	.0	1		2325	282	0.	.0	.0
1		0650	83	48.	18.2	6.4	1		1510	183	0.	.0	.0	1		2330	283	0.	.0	.0
1		0655	84	47.	17.9	6.4	1		1515	184	0.	.0	.0	1		2335	284	0.	.0	.0
1		0700	85	47.	17.6	6.3	1		1520	185	0.	.0	.0	1		2340	285	0.	.0	.0
1		0705	86	47.	17.4	6.3	1		1525	186	0.	.0	.0	1		2345	286	0.	.0	.0
1		0710	87	47.	17.1	6.3	1		1530	187	0.	.0	.0	1		2350	287	0.	.0	.0
1		0715	88	47.	16.8	6.2	1		1535	188	0.	.0	.0	1		2355	288	0.	.0	.0
1		0720	89	46.	16.5	6.2	1		1540	189	0.	.0	.0	2		0000	289	0.	.0	.0
1		0725	90	46.	16.2	6.1	1		1545	190	0.	.0	.0	2		0005	290	0.	.0	.0
1		0730	91	46.	15.9	6.1	1		1550	191	0.	.0	.0	2		0010	291	0.	.0	.0
1		0735	92	46.	15.6	6.1	1		1555	192	0.	.0	.0	2		0015	292	0.	.0	.0
1		0740	93	45.	15.3	6.0	1		1600	193	0.	.0	.0	2		0020	293	0.	.0	.0
1		0745	94	45.	15.0	6.0	1		1605	194	0.	.0	.0	2		0025	294	0.	.0	.0
1		0750	95	44.	14.7	5.9	1		1610	195	0.	.0	.0	2		0030	295	0.	.0	.0
1		0755	96	44.	14.4	5.8	1		1615	196	0.	.0	.0	2		0035	296	0.	.0	.0
1		0800	97	43.	14.1	5.7	1		1620	197	0.	.0	.0	2		0040	297	0.	.0	.0
1		0805	98	43.	13.8	5.6	1		1625	198	0.	.0	.0	2		0045	298	0.	.0	.0
1		0810	99	42.	13.5	5.5	1		1630	199	0.	.0	.0	2		0050	299	0.	.0	.0
1		0815	100	42.	13.2	5.5	1		1635	200	0.	.0	.0	2		0055	300	0.	.0	.0

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)	(CFS)				
+ 49.	5.92		43.	16.	15.	15.
		(INCHES)	.488	.706	.706	.706
		(AC-FT)	21.	31.	31.	31.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
20.	5.92	15.	4.	4.	4.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR

```
+   (FEET)      (HR)
      6.66      5.92                  5.64         1.93         1.86         1.86

                        CUMULATIVE AREA =      .82 SQ MI


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


              ***************
              *             *
1628 KK       *      CP43   *
              *             *
              ***************

1630 KO             OUTPUT CONTROL VARIABLES
                         IPRNT          1  PRINT CONTROL
                         IPLOT          0  PLOT CONTROL
                         QSCAL          0.  HYDROGRAPH PLOT SCALE

1631 HC             HYDROGRAPH COMBINATION
                         ICOMP          2  NUMBER OF HYDROGRAPHS TO COMBINE
                                                                    ***

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                                                HYDROGRAPH AT STATION     CP43
                                                   SUM OF  2 HYDROGRAPHS
                                                  PLAN 1,   RATIO =  1.00

*****************************************************************************************************************************************************

   DA MON HRMN   ORD      FLOW     *    DA MON HRMN   ORD      FLOW     *    DA MON HRMN   ORD      FLOW     *    DA MON HRMN   ORD      FLOW
                                    *                                    *                                    *
    1   0000     1        0.      *     1   0615    76       452.      *     1   1230   151       113.      *     1   1845   226       61.
    1   0005     2        0.      *     1   0620    77       411.      *     1   1235   152       111.      *     1   1850   227       60.
    1   0010     3       15.      *     1   0625    78       376.      *     1   1240   153       109.      *     1   1855   228       59.
    1   0015     4       31.      *     1   0630    79       347.      *     1   1245   154       108.      *     1   1900   229       59.
    1   0020     5       46.      *     1   0635    80       321.      *     1   1250   155       107.      *     1   1905   230       58.
    1   0025     6       77.      *     1   0640    81       298.      *     1   1255   156       105.      *     1   1910   231       58.
    1   0030     7      110.      *     1   0645    82       279.      *     1   1300   157       104.      *     1   1915   232       57.
    1   0035     8      112.      *     1   0650    83       262.      *     1   1305   158       103.      *     1   1920   233       56.
    1   0040     9       83.      *     1   0655    84       248.      *     1   1310   159       100.      *     1   1925   234       56.
    1   0045    10       50.      *     1   0700    85       236.      *     1   1315   160        99.      *     1   1930   235       55.
    1   0050    11       30.      *     1   0705    86       226.      *     1   1320   161        98.      *     1   1935   236       55.
    1   0055    12       20.      *     1   0710    87       217.      *     1   1325   162        98.      *     1   1940   237       54.
    1   0100    13       14.      *     1   0715    88       210.      *     1   1330   163        98.      *     1   1945   238       53.
    1   0105    14       18.      *     1   0720    89       203.      *     1   1335   164        97.      *     1   1950   239       53.
    1   0110    15       37.      *     1   0725    90       198.      *     1   1340   165        97.      *     1   1955   240       52.
    1   0115    16       48.      *     1   0730    91       194.      *     1   1345   166        96.      *     1   2000   241       52.
    1   0120    17       54.      *     1   0735    92       191.      *     1   1350   167        96.      *     1   2005   242       51.
    1   0125    18       78.      *     1   0740    93       187.      *     1   1355   168        96.      *     1   2010   243       51.
    1   0130    19      120.      *     1   0745    94       185.      *     1   1400   169        95.      *     1   2015   244       50.
    1   0135    20      150.      *     1   0750    95       182.      *     1   1405   170        95.      *     1   2020   245       50.
    1   0140    21      160.      *     1   0755    96       180.      *     1   1410   171        94.      *     1   2025   246       49.
    1   0145    22      163.      *     1   0800    97       179.      *     1   1415   172        94.      *     1   2030   247       49.
    1   0150    23      147.      *     1   0805    98       177.      *     1   1420   173        94.      *     1   2035   248       48.
    1   0155    24      121.      *     1   0810    99       176.      *     1   1425   174        93.      *     1   2040   249       48.
    1   0200    25      104.      *     1   0815   100       174.      *     1   1430   175        93.      *     1   2045   250       46.
    1   0205    26      104.      *     1   0820   101       173.      *     1   1435   176        92.      *     1   2050   251       44.
    1   0210    27      136.      *     1   0825   102       172.      *     1   1440   177        92.      *     1   2055   252       43.
    1   0215    28      202.      *     1   0830   103       171.      *     1   1445   178        92.      *     1   2100   253       41.
    1   0220    29      259.      *     1   0835   104       170.      *     1   1450   179        91.      *     1   2105   254       40.
    1   0225    30      276.      *     1   0840   105       169.      *     1   1455   180        91.      *     1   2110   255       38.
    1   0230    31      251.      *     1   0845   106       168.      *     1   1500   181        90.      *     1   2115   256       37.
    1   0235    32      228.      *     1   0850   107       167.      *     1   1505   182        90.      *     1   2120   257       36.
    1   0240    33      263.      *     1   0855   108       166.      *     1   1510   183        90.      *     1   2125   258       33.
    1   0245    34      310.      *     1   0900   109       165.      *     1   1515   184        89.      *     1   2130   259       30.
    1   0250    35      305.      *     1   0905   110       164.      *     1   1520   185        88.      *     1   2135   260       28.
    1   0255    36      275.      *     1   0910   111       163.      *     1   1525   186        88.      *     1   2140   261       26.
    1   0300    37      292.      *     1   0915   112       162.      *     1   1530   187        87.      *     1   2145   262       26.
    1   0305    38      416.      *     1   0920   113       161.      *     1   1535   188        86.      *     1   2150   263       25.
    1   0310    39      595.      *     1   0925   114       160.      *     1   1540   189        86.      *     1   2155   264       24.
    1   0315    40      876.      *     1   0930   115       159.      *     1   1545   190        85.      *     1   2200   265       24.
    1   0320    41     1407.      *     1   0935   116       158.      *     1   1550   191        84.      *     1   2205   266       24.
    1   0325    42     2045.      *     1   0940   117       157.      *     1   1555   192        84.      *     1   2210   267       23.
    1   0330    43     2768.      *     1   0945   118       157.      *     1   1600   193        83.      *     1   2215   268       23.
    1   0335    44     3072.      *     1   0950   119       156.      *     1   1605   194        83.      *     1   2220   269       23.
    1   0340    45     2901.      *     1   0955   120       155.      *     1   1610   195        82.      *     1   2225   270       22.
    1   0345    46     2813.      *     1   1000   121       154.      *     1   1615   196        81.      *     1   2230   271       22.
    1   0350    47     2720.      *     1   1005   122       153.      *     1   1620   197        81.      *     1   2235   272       22.
    1   0355    48     2641.      *     1   1010   123       151.      *     1   1625   198        80.      *     1   2240   273       22.
    1   0400    49     2674.      *     1   1015   124       150.      *     1   1630   199        80.      *     1   2245   274       22.
    1   0405    50     2662.      *     1   1020   125       148.      *     1   1635   200        79.      *     1   2250   275       21.
    1   0410    51     2565.      *     1   1025   126       146.      *     1   1640   201        78.      *     1   2255   276       21.
    1   0415    52     2470.      *     1   1030   127       145.      *     1   1645   202        78.      *     1   2300   277       21.
    1   0420    53     2392.      *     1   1035   128       143.      *     1   1650   203        77.      *     1   2305   278       21.
    1   0425    54     2325.      *     1   1040   129       142.      *     1   1655   204        76.      *     1   2310   279       21.
    1   0430    55     2317.      *     1   1045   130       141.      *     1   1700   205        75.      *     1   2315   280       20.
    1   0435    56     2304.      *     1   1050   131       139.      *     1   1705   206        75.      *     1   2320   281       20.
    1   0440    57     2197.      *     1   1055   132       138.      *     1   1710   207        74.      *     1   2325   282       20.
    1   0445    58     2061.      *     1   1100   133       137.      *     1   1715   208        73.      *     1   2330   283       20.
    1   0450    59     1994.      *     1   1105   134       135.      *     1   1720   209        72.      *     1   2335   284       20.
    1   0455    60     1900.      *     1   1110   135       134.      *     1   1725   210        72.      *     1   2340   285       20.
    1   0500    61     1737.      *     1   1115   136       133.      *     1   1730   211        71.      *     1   2345   286       19.
    1   0505    62     1582.      *     1   1120   137       132.      *     1   1735   212        70.      *     1   2350   287       19.
    1   0510    63     1440.      *     1   1125   138       130.      *     1   1740   213        69.      *     1   2355   288       19.
    1   0515    64     1320.      *     1   1130   139       129.      *     1   1745   214        69.      *     2   0000   289       19.
    1   0520    65     1216.      *     1   1135   140       128.      *     1   1750   215        68.      *     2   0005   290       19.
    1   0525    66     1131.      *     1   1140   141       127.      *     1   1755   216        67.      *     2   0010   291       19.
    1   0530    67     1047.      *     1   1145   142       125.      *     1   1800   217        67.      *     2   0015   292       18.
    1   0535    68      955.      *     1   1150   143       124.      *     1   1805   218        66.      *     2   0020   293       18.
    1   0540    69      874.      *     1   1155   144       122.      *     1   1810   219        65.      *     2   0025   294       18.
    1   0545    70      812.      *     1   1200   145       121.      *     1   1815   220        64.      *     2   0030   295       18.
    1   0550    71      748.      *     1   1205   146       119.      *     1   1820   221        64.      *     2   0035   296       18.
    1   0555    72      676.      *     1   1210   147       118.      *     1   1825   222        63.      *     2   0040   297       18.
    1   0600    73      615.      *     1   1215   148       117.      *     1   1830   223        63.      *     2   0045   298       17.
    1   0605    74      557.      *     1   1220   149       116.      *     1   1835   224        62.      *     2   0050   299       17.
    1   0610    75      501.      *     1   1225   150       114.      *     1   1840   225        61.      *     2   0055   300       17.
                                    *                                    *                                    *

*****************************************************************************************************************************************************

  PEAK FLOW      TIME                                MAXIMUM AVERAGE FLOW
+   (CFS)        (HR)                  6-HR          24-HR          72-HR        24.92-HR
                                (CFS)
+   3072.        3.58                 1027.          320.           309.          309.
                              (INCHES)  4.017         5.009          5.018         5.018
                              (AC-FT)    509.          635.           636.          636.

                        CUMULATIVE AREA =     2.38 SQ MI

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                                                HYDROGRAPH AT STATION     CP43
                                                   SUM OF  2 HYDROGRAPHS
                                                  PLAN 1,   RATIO =  .98

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   DA MON HRMN   ORD      FLOW     *    DA MON HRMN   ORD      FLOW     *    DA MON HRMN   ORD      FLOW     *    DA MON HRMN   ORD      FLOW
                                    *                                    *                                    *
    1   0000     1        0.      *     1   0615    76       443.      *     1   1230   151       109.      *     1   1845   226       58.
```

1	0005	2	0.	*	1	0620	77	403.	*	1	1235	152	107.	*	1	1850	227	57.	
1	0010	3	14.	*	1	0625	78	369.	*	1	1240	153	106.	*	1	1855	228	57.	
1	0015	4	29.	*	1	0630	79	340.	*	1	1245	154	105.	*	1	1900	229	56.	
1	0020	5	44.	*	1	0635	80	315.	*	1	1250	155	103.	*	1	1905	230	55.	
1	0025	6	73.	*	1	0640	81	293.	*	1	1255	156	102.	*	1	1910	231	55.	
1	0030	7	104.	*	1	0645	82	274.	*	1	1300	157	100.	*	1	1915	232	54.	
1	0035	8	107.	*	1	0650	83	258.	*	1	1305	158	98.	*	1	1920	233	54.	
1	0040	9	79.	*	1	0655	84	244.	*	1	1310	159	98.	*	1	1925	234	53.	
1	0045	10	47.	*	1	0700	85	232.	*	1	1315	160	97.	*	1	1930	235	53.	
1	0050	11	28.	*	1	0705	86	222.	*	1	1320	161	97.	*	1	1935	236	52.	
1	0055	12	18.	*	1	0710	87	214.	*	1	1325	162	96.	*	1	1940	237	51.	
1	0100	13	13.	*	1	0715	88	207.	*	1	1330	163	96.	*	1	1945	238	51.	
1	0105	14	16.	*	1	0720	89	201.	*	1	1335	164	95.	*	1	1950	239	50.	
1	0110	15	34.	*	1	0725	90	196.	*	1	1340	165	95.	*	1	1955	240	50.	
1	0115	16	45.	*	1	0730	91	191.	*	1	1345	166	95.	*	1	2000	241	49.	
1	0120	17	51.	*	1	0735	92	188.	*	1	1350	167	94.	*	1	2005	242	49.	
1	0125	18	74.	*	1	0740	93	185.	*	1	1355	168	94.	*	1	2010	243	48.	
1	0130	19	114.	*	1	0745	94	182.	*	1	1400	169	93.	*	1	2015	244	48.	
1	0135	20	143.	*	1	0750	95	180.	*	1	1405	170	93.	*	1	2020	245	47.	
1	0140	21	152.	*	1	0755	96	178.	*	1	1410	171	93.	*	1	2025	246	46.	
1	0145	22	155.	*	1	0800	97	176.	*	1	1415	172	92.	*	1	2030	247	44.	
1	0150	23	140.	*	1	0805	98	174.	*	1	1420	173	92.	*	1	2035	248	42.	
1	0155	24	115.	*	1	0810	99	173.	*	1	1425	174	91.	*	1	2040	249	41.	
1	0200	25	98.	*	1	0815	100	172.	*	1	1430	175	91.	*	1	2045	250	39.	
1	0205	26	98.	*	1	0820	101	171.	*	1	1435	176	91.	*	1	2050	251	38.	
1	0210	27	129.	*	1	0825	102	169.	*	1	1440	177	90.	*	1	2055	252	37.	
1	0215	28	193.	*	1	0830	103	168.	*	1	1445	178	90.	*	1	2100	253	36.	
1	0220	29	247.	*	1	0835	104	167.	*	1	1450	179	89.	*	1	2105	254	33.	
1	0225	30	263.	*	1	0840	105	166.	*	1	1455	180	89.	*	1	2110	255	30.	
1	0230	31	240.	*	1	0845	106	165.	*	1	1500	181	88.	*	1	2115	256	28.	
1	0235	32	217.	*	1	0850	107	164.	*	1	1505	182	88.	*	1	2120	257	26.	
1	0240	33	251.	*	1	0855	108	163.	*	1	1510	183	87.	*	1	2125	258	25.	
1	0245	34	297.	*	1	0900	109	162.	*	1	1515	184	86.	*	1	2130	259	25.	
1	0250	35	292.	*	1	0905	110	161.	*	1	1520	185	86.	*	1	2135	260	24.	
1	0255	36	263.	*	1	0910	111	160.	*	1	1525	186	85.	*	1	2140	261	24.	
1	0300	37	280.	*	1	0915	112	159.	*	1	1530	187	84.	*	1	2145	262	23.	
1	0305	38	400.	*	1	0920	113	158.	*	1	1535	188	84.	*	1	2150	263	23.	
1	0310	39	573.	*	1	0925	114	157.	*	1	1540	189	83.	*	1	2155	264	23.	
1	0315	40	846.	*	1	0930	115	156.	*	1	1545	190	82.	*	1	2200	265	22.	
1	0320	41	1362.	*	1	0935	116	155.	*	1	1550	191	82.	*	1	2205	266	22.	
1	0325	42	1982.	*	1	0940	117	155.	*	1	1555	192	81.	*	1	2210	267	22.	
1	0330	43	2685.	*	1	0945	118	154.	*	1	1600	193	81.	*	1	2215	268	22.	
1	0335	44	2981.	*	1	0950	119	153.	*	1	1605	194	80.	*	1	2220	269	22.	
1	0340	45	2813.	*	1	0955	120	152.	*	1	1610	195	79.	*	1	2225	270	21.	
1	0345	46	2726.	*	1	1000	121	150.	*	1	1615	196	79.	*	1	2230	271	21.	
1	0350	47	2636.	*	1	1005	122	149.	*	1	1620	197	78.	*	1	2235	272	21.	
1	0355	48	2558.	*	1	1010	123	147.	*	1	1625	198	77.	*	1	2240	273	21.	
1	0400	49	2590.	*	1	1015	124	146.	*	1	1630	199	77.	*	1	2245	274	21.	
1	0405	50	2579.	*	1	1020	125	144.	*	1	1635	200	76.	*	1	2250	275	20.	
1	0410	51	2485.	*	1	1025	126	142.	*	1	1640	201	75.	*	1	2255	276	20.	
1	0415	52	2395.	*	1	1030	127	141.	*	1	1645	202	74.	*	1	2300	277	20.	
1	0420	53	2320.	*	1	1035	128	140.	*	1	1650	203	73.	*	1	2305	278	20.	
1	0425	54	2256.	*	1	1040	129	138.	*	1	1655	204	73.	*	1	2310	279	20.	
1	0430	55	2250.	*	1	1045	130	137.	*	1	1700	205	72.	*	1	2315	280	19.	
1	0435	56	2239.	*	1	1050	131	136.	*	1	1705	206	71.	*	1	2320	281	19.	
1	0440	57	2136.	*	1	1055	132	134.	*	1	1710	207	70.	*	1	2325	282	19.	
1	0445	58	2005.	*	1	1100	133	133.	*	1	1715	208	70.	*	1	2330	283	19.	
1	0450	59	1940.	*	1	1105	134	132.	*	1	1720	209	69.	*	1	2335	284	19.	
1	0455	60	1850.	*	1	1110	135	131.	*	1	1725	210	68.	*	1	2340	285	19.	
1	0500	61	1692.	*	1	1115	136	129.	*	1	1730	211	67.	*	1	2345	286	18.	
1	0505	62	1541.	*	1	1120	137	128.	*	1	1735	212	67.	*	1	2350	287	18.	
1	0510	63	1403.	*	1	1125	138	127.	*	1	1740	213	66.	*	1	2355	288	18.	
1	0515	64	1287.	*	1	1130	139	126.	*	1	1745	214	65.	*	2	0000	289	18.	
1	0520	65	1185.	*	1	1135	140	125.	*	1	1750	215	65.	*	2	0005	290	18.	
1	0525	66	1103.	*	1	1140	141	123.	*	1	1755	216	64.	*	2	0010	291	18.	
1	0530	67	1021.	*	1	1145	142	121.	*	1	1800	217	63.	*	2	0015	292	17.	
1	0535	68	932.	*	1	1150	143	120.	*	1	1805	218	63.	*	2	0020	293	17.	
1	0540	69	853.	*	1	1155	144	118.	*	1	1810	219	62.	*	2	0025	294	17.	
1	0545	70	793.	*	1	1200	145	117.	*	1	1815	220	61.	*	2	0030	295	17.	
1	0550	71	731.	*	1	1205	146	116.	*	1	1820	221	61.	*	2	0035	296	17.	
1	0555	72	661.	*	1	1210	147	115.	*	1	1825	222	60.	*	2	0040	297	17.	
1	0600	73	602.	*	1	1215	148	113.	*	1	1830	223	60.	*	2	0045	298	16.	
1	0605	74	545.	*	1	1220	149	112.	*	1	1835	224	59.	*	2	0050	299	16.	
1	0610	75	490.	*	1	1225	150	110.	*	1	1840	225	58.	*	2	0055	300	15.	

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PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW				
		6-HR	24-HR	72-HR	24.92-HR	
+ (CFS)	(HR)	(CFS)				
+ 2981.	3.58	997.	310.	299.	299.	
		(INCHES) 3.903	4.858	4.867	4.867	
		(AC-FT) 495.	616.	617.	617.	

CUMULATIVE AREA = 2.38 SQ MI

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HYDROGRAPH AT STATION CP43
SUM OF 2 HYDROGRAPHS
PLAN 1, RATIO = .97

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	438.	*	1		1230	151	107.	*	1		1845	226	56.
1		0005	2	0.	*	1		0620	77	399.	*	1		1235	152	105.	*	1		1850	227	56.
1		0010	3	13.	*	1		0625	78	366.	*	1		1240	153	104.	*	1		1855	228	55.
1		0015	4	28.	*	1		0630	79	337.	*	1		1245	154	103.	*	1		1900	229	55.
1		0020	5	43.	*	1		0635	80	312.	*	1		1250	155	102.	*	1		1905	230	54.
1		0025	6	71.	*	1		0640	81	291.	*	1		1255	156	99.	*	1		1910	231	53.
1		0030	7	102.	*	1		0645	82	272.	*	1		1300	157	98.	*	1		1915	232	53.
1		0035	8	104.	*	1		0650	83	256.	*	1		1305	158	97.	*	1		1920	233	52.
1		0040	9	77.	*	1		0655	84	242.	*	1		1310	159	97.	*	1		1925	234	52.
1		0045	10	46.	*	1		0700	85	231.	*	1		1315	160	96.	*	1		1930	235	51.
1		0050	11	27.	*	1		0705	86	221.	*	1		1320	161	96.	*	1		1935	236	51.
1		0055	12	18.	*	1		0710	87	212.	*	1		1325	162	95.	*	1		1940	237	50.
1		0100	13	12.	*	1		0715	88	205.	*	1		1330	163	95.	*	1		1945	238	50.
1		0105	14	16.	*	1		0720	89	199.	*	1		1335	164	95.	*	1		1950	239	49.
1		0110	15	33.	*	1		0725	90	194.	*	1		1340	165	94.	*	1		1955	240	49.
1		0115	16	44.	*	1		0730	91	190.	*	1		1345	166	94.	*	1		2000	241	48.
1		0120	17	49.	*	1		0735	92	186.	*	1		1350	167	93.	*	1		2005	242	48.
1		0125	18	72.	*	1		0740	93	183.	*	1		1355	168	93.	*	1		2010	243	47.
1		0130	19	111.	*	1		0745	94	181.	*	1		1400	169	93.	*	1		2015	244	46.
1		0135	20	140.	*	1		0750	95	178.	*	1		1405	170	92.	*	1		2020	245	44.
1		0140	21	149.	*	1		0755	96	176.	*	1		1410	171	92.	*	1		2025	246	42.
1		0145	22	151.	*	1		0800	97	175.	*	1		1415	172	91.	*	1		2030	247	41.
1		0150	23	137.	*	1		0805	98	173.	*	1		1420	173	91.	*	1		2035	248	39.
1		0155	24	112.	*	1		0810	99	172.	*	1		1425	174	90.	*	1		2040	249	38.
1		0200	25	95.	*	1		0815	100	170.	*	1		1430	175	90.	*	1		2045	250	37.
1		0205	26	95.	*	1		0820	101	169.	*	1		1435	176	90.	*	1		2050	251	35.
1		0210	27	126.	*	1		0825	102	168.	*	1		1440	177	89.	*	1		2055	252	33.
1		0215	28	188.	*	1		0830	103	167.	*	1		1445	178	89.	*	1		2100	253	30.
1		0220	29	242.	*	1		0835	104	166.	*	1		1450	179	88.	*	1		2105	254	28.
1		0225	30	257.	*	1		0840	105	165.	*	1		1455	180	87.	*	1		2110	255	26.
1		0230	31	234.	*	1		0845	106	164.	*	1		1500	181	87.	*	1		2115	256	25.
1		0235	32	211.	*	1		0850	107	163.	*	1		1505	182	86.	*	1		2120	257	24.
1		0240	33	245.	*	1		0855	108	162.	*	1		1510	183	85.	*	1		2125	258	24.
1		0245	34	290.	*	1		0900	109	161.	*	1		1515	184	85.	*	1		2130	259	23.
1		0250	35	286.	*	1		0905	110	160.	*	1		1520	185	84.	*	1		2135	260	23.
1		0255	36	257.	*	1		0910	111	159.	*	1		1525	186	84.	*	1		2140	261	23.
1		0300	37	274.	*	1		0915	112	158.	*	1		1530	187	83.	*	1		2145	262	22.
1		0305	38	392.	*	1		0920	113	157.	*	1		1535	188	82.	*	1		2150	263	22.
1		0310	39	563.	*	1		0925	114	156.	*	1		1540	189	82.	*	1		2155	264	22.

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0315	40	831.	1		0930	115	155.	1		1545	190	81.	1		2200	265	22.
1		0320	41	1339.	1		0935	116	154.	1		1550	191	81.	1		2205	266	22.
1		0325	42	1950.	1		0940	117	153.	1		1555	192	80.	1		2210	267	21.
1		0330	43	2644.	1		0945	118	152.	1		1600	193	79.	1		2215	268	21.
1		0335	44	2935.	1		0950	119	151.	1		1605	194	79.	1		2220	269	21.
1		0340	45	2768.	1		0955	120	150.	1		1610	195	78.	1		2225	270	21.
1		0345	46	2683.	1		1000	121	148.	1		1615	196	77.	1		2230	271	21.
1		0350	47	2594.	1		1005	122	147.	1		1620	197	76.	1		2235	272	20.
1		0355	48	2516.	1		1010	123	145.	1		1625	198	75.	1		2240	273	20.
1		0400	49	2548.	1		1015	124	143.	1		1630	199	75.	1		2245	274	20.
1		0405	50	2537.	1		1020	125	142.	1		1635	200	74.	1		2250	275	20.
1		0410	51	2445.	1		1025	126	141.	1		1640	201	73.	1		2255	276	20.
1		0415	52	2357.	1		1030	127	139.	1		1645	202	72.	1		2300	277	20.
1		0420	53	2284.	1		1035	128	138.	1		1650	203	72.	1		2305	278	19.
1		0425	54	2222.	1		1040	129	136.	1		1655	204	71.	1		2310	279	19.
1		0430	55	2217.	1		1045	130	135.	1		1700	205	70.	1		2315	280	19.
1		0435	56	2207.	1		1050	131	134.	1		1705	206	69.	1		2320	281	19.
1		0440	57	2106.	1		1055	132	132.	1		1710	207	69.	1		2325	282	19.
1		0445	58	1976.	1		1100	133	131.	1		1715	208	68.	1		2330	283	18.
1		0450	59	1913.	1		1105	134	130.	1		1720	209	67.	1		2335	284	18.
1		0455	60	1825.	1		1110	135	129.	1		1725	210	67.	1		2340	285	18.
1		0500	61	1669.	1		1115	136	128.	1		1730	211	66.	1		2345	286	18.
1		0505	62	1520.	1		1120	137	127.	1		1735	212	65.	1		2350	287	18.
1		0510	63	1384.	1		1125	138	125.	1		1740	213	65.	1		2355	288	18.
1		0515	64	1270.	1		1130	139	124.	1		1745	214	64.	2		0000	289	17.
1		0520	65	1170.	1		1135	140	122.	1		1750	215	63.	2		0005	290	17.
1		0525	66	1089.	1		1140	141	121.	1		1755	216	63.	2		0010	291	17.
1		0530	67	1008.	1		1145	142	119.	1		1800	217	62.	2		0015	292	17.
1		0535	68	920.	1		1150	143	118.	1		1805	218	61.	2		0020	293	17.
1		0540	69	843.	1		1155	144	117.	1		1810	219	61.	2		0025	294	17.
1		0545	70	784.	1		1200	145	115.	1		1815	220	60.	2		0030	295	16.
1		0550	71	722.	1		1205	146	114.	1		1820	221	59.	2		0035	296	16.
1		0555	72	653.	1		1210	147	113.	1		1825	222	59.	2		0040	297	15.
1		0600	73	595.	1		1215	148	112.	1		1830	223	58.	2		0045	298	14.
1		0605	74	539.	1		1220	149	110.	1		1835	224	58.	2		0050	299	14.
1		0610	75	485.	1		1225	150	108.	1		1840	225	57.	2		0055	300	13.

PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2935.	3.58	(CFS) 983.	306.	295.	295.
		(INCHES) 3.846	4.783	4.791	4.791
		(AC-FT) 487.	606.	607.	607.

CUMULATIVE AREA = 2.38 SQ MI

HYDROGRAPH AT STATION CP43
SUM OF 2 HYDROGRAPHS
PLAN 1, RATIO = .93

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	420.	1		1230	151	100.	1		1845	226	51.
1		0005	2	0.	1		0620	77	383.	1		1235	152	98.	1		1850	227	51.
1		0010	3	12.	1		0625	78	351.	1		1240	153	96.	1		1855	228	50.
1		0015	4	25.	1		0630	79	324.	1		1245	154	95.	1		1900	229	49.
1		0020	5	38.	1		0635	80	301.	1		1250	155	95.	1		1905	230	49.
1		0025	6	64.	1		0640	81	280.	1		1255	156	94.	1		1910	231	48.
1		0030	7	91.	1		0645	82	263.	1		1300	157	94.	1		1915	232	48.
1		0035	8	94.	1		0650	83	248.	1		1305	158	93.	1		1920	233	47.
1		0040	9	69.	1		0655	84	235.	1		1310	159	93.	1		1925	234	47.
1		0045	10	41.	1		0700	85	223.	1		1315	160	93.	1		1930	235	47.
1		0050	11	24.	1		0705	86	214.	1		1320	161	92.	1		1935	236	45.
1		0055	12	15.	1		0710	87	206.	1		1325	162	92.	1		1940	237	44.
1		0100	13	10.	1		0715	88	199.	1		1330	163	91.	1		1945	238	42.
1		0105	14	13.	1		0720	89	193.	1		1335	164	91.	1		1950	239	40.
1		0110	15	29.	1		0725	90	188.	1		1340	165	90.	1		1955	240	39.
1		0115	16	39.	1		0730	91	184.	1		1345	166	90.	1		2000	241	37.
1		0120	17	43.	1		0735	92	180.	1		1350	167	90.	1		2005	242	36.
1		0125	18	64.	1		0740	93	177.	1		1355	168	89.	1		2010	243	35.
1		0130	19	100.	1		0745	94	175.	1		1400	169	89.	1		2015	244	33.
1		0135	20	126.	1		0750	95	173.	1		1405	170	88.	1		2020	245	29.
1		0140	21	134.	1		0755	96	170.	1		1410	171	88.	1		2025	246	27.
1		0145	22	136.	1		0800	97	169.	1		1415	172	87.	1		2030	247	26.
1		0150	23	123.	1		0805	98	167.	1		1420	173	86.	1		2035	248	25.
1		0155	24	100.	1		0810	99	166.	1		1425	174	86.	1		2040	249	24.
1		0200	25	85.	1		0815	100	164.	1		1430	175	85.	1		2045	250	23.
1		0205	26	84.	1		0820	101	163.	1		1435	176	84.	1		2050	251	23.
1		0210	27	113.	1		0825	102	162.	1		1440	177	84.	1		2055	252	22.
1		0215	28	170.	1		0830	103	161.	1		1445	178	83.	1		2100	253	22.
1		0220	29	220.	1		0835	104	159.	1		1450	179	83.	1		2105	254	22.
1		0225	30	234.	1		0840	105	158.	1		1455	180	82.	1		2110	255	22.
1		0230	31	212.	1		0845	106	157.	1		1500	181	81.	1		2115	256	21.
1		0235	32	191.	1		0850	107	156.	1		1505	182	81.	1		2120	257	21.
1		0240	33	222.	1		0855	108	155.	1		1510	183	80.	1		2125	258	21.
1		0245	34	264.	1		0900	109	155.	1		1515	184	79.	1		2130	259	21.
1		0250	35	260.	1		0905	110	154.	1		1520	185	78.	1		2135	260	21.
1		0255	36	234.	1		0910	111	153.	1		1525	186	78.	1		2140	261	20.
1		0300	37	250.	1		0915	112	152.	1		1530	187	77.	1		2145	262	20.
1		0305	38	360.	1		0920	113	151.	1		1535	188	76.	1		2150	263	20.
1		0310	39	520.	1		0925	114	150.	1		1540	189	75.	1		2155	264	20.
1		0315	40	772.	1		0930	115	149.	1		1545	190	74.	1		2200	265	20.
1		0320	41	1247.	1		0935	116	148.	1		1550	191	74.	1		2205	266	20.
1		0325	42	1825.	1		0940	117	146.	1		1555	192	73.	1		2210	267	19.
1		0330	43	2481.	1		0945	118	145.	1		1600	193	72.	1		2215	268	19.
1		0335	44	2753.	1		0950	119	143.	1		1605	194	71.	1		2220	269	19.
1		0340	45	2592.	1		0955	120	141.	1		1610	195	71.	1		2225	270	19.
1		0345	46	2510.	1		1000	121	140.	1		1615	196	70.	1		2230	271	19.
1		0350	47	2426.	1		1005	122	138.	1		1620	197	69.	1		2235	272	18.
1		0355	48	2350.	1		1010	123	137.	1		1625	198	68.	1		2240	273	18.
1		0400	49	2381.	1		1015	124	136.	1		1630	199	68.	1		2245	274	18.
1		0405	50	2372.	1		1020	125	134.	1		1635	200	67.	1		2250	275	18.
1		0410	51	2287.	1		1025	126	133.	1		1640	201	66.	1		2255	276	18.
1		0415	52	2207.	1		1030	127	132.	1		1645	202	66.	1		2300	277	18.
1		0420	53	2141.	1		1035	128	130.	1		1650	203	65.	1		2305	278	17.
1		0425	54	2086.	1		1040	129	129.	1		1655	204	64.	1		2310	279	17.
1		0430	55	2084.	1		1045	130	128.	1		1700	205	64.	1		2315	280	17.
1		0435	56	2077.	1		1050	131	127.	1		1705	206	63.	1		2320	281	17.
1		0440	57	1984.	1		1055	132	126.	1		1710	207	62.	1		2325	282	17.
1		0445	58	1864.	1		1100	133	125.	1		1715	208	62.	1		2330	283	17.
1		0450	59	1806.	1		1105	134	124.	1		1720	209	61.	1		2335	284	16.
1		0455	60	1724.	1		1110	135	122.	1		1725	210	60.	1		2340	285	16.
1		0500	61	1578.	1		1115	136	121.	1		1730	211	60.	1		2345	286	15.
1		0505	62	1438.	1		1120	137	119.	1		1735	212	59.	1		2350	287	14.
1		0510	63	1310.	1		1125	138	118.	1		1740	213	58.	1		2355	288	14.
1		0515	64	1203.	1		1130	139	116.	1		1745	214	58.	2		0000	289	13.
1		0520	65	1109.	1		1135	140	115.	1		1750	215	57.	2		0005	290	12.
1		0525	66	1033.	1		1140	141	113.	1		1755	216	57.	2		0010	291	12.
1		0530	67	957.	1		1145	142	112.	1		1800	217	56.	2		0015	292	11.
1		0535	68	874.	1		1150	143	111.	1		1805	218	56.	2		0020	293	11.
1		0540	69	801.	1		1155	144	110.	1		1810	219	55.	2		0025	294	10.
1		0545	70	746.	1		1200	145	108.	1		1815	220	54.	2		0030	295	10.
1		0550	71	688.	1		1205	146	106.	1		1820	221	54.	2		0035	296	9.
1		0555	72	623.	1		1210	147	105.	1		1825	222	53.	2		0040	297	9.
1		0600	73	568.	1		1215	148	104.	1		1830	223	53.	2		0045	298	8.
1		0605	74	515.	1		1220	149	102.	1		1835	224	52.	2		0050	299	7.
1		0610	75	464.	1		1225	150	101.	1		1840	225	52.	2		0055	300	6.

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2753.	3.58	(CFS)	925.	286.	276.	276.
		(INCHES)	3.620	4.484	4.489	4.489
		(AC-FT)	459.	568.	569.	569.

CUMULATIVE AREA = 2.38 SQ MI

HYDROGRAPH AT STATION CP43
SUM OF 2 HYDROGRAPHS
PLAN 1, RATIO = .91

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	411.	1		1230	151	95.	1		1845	226	49.
1		0005	2	0.	1		0620	77	375.	1		1235	152	94.	1		1850	227	48.
1		0010	3	11.	1		0625	78	344.	1		1240	153	94.	1		1855	228	48.
1		0015	4	24.	1		0630	79	318.	1		1245	154	93.	1		1900	229	47.
1		0020	5	36.	1		0635	80	295.	1		1250	155	93.	1		1905	230	47.
1		0025	6	60.	1		0640	81	275.	1		1255	156	92.	1		1910	231	46.
1		0030	7	86.	1		0645	82	258.	1		1300	157	92.	1		1915	232	45.
1		0035	8	89.	1		0650	83	243.	1		1305	158	92.	1		1920	233	43.
1		0040	9	65.	1		0655	84	230.	1		1310	159	91.	1		1925	234	42.
1		0045	10	39.	1		0700	85	219.	1		1315	160	91.	1		1930	235	40.
1		0050	11	23.	1		0705	86	210.	1		1320	161	90.	1		1935	236	38.
1		0055	12	14.	1		0710	87	202.	1		1325	162	90.	1		1940	237	37.
1		0100	13	9.	1		0715	88	195.	1		1330	163	89.	1		1945	238	36.
1		0105	14	12.	1		0720	89	190.	1		1335	164	89.	1		1950	239	35.
1		0110	15	27.	1		0725	90	185.	1		1340	165	89.	1		1955	240	33.
1		0115	16	36.	1		0730	91	180.	1		1345	166	88.	1		2000	241	29.
1		0120	17	41.	1		0735	92	177.	1		1350	167	88.	1		2005	242	27.
1		0125	18	60.	1		0740	93	174.	1		1355	168	87.	1		2010	243	25.
1		0130	19	94.	1		0745	94	171.	1		1400	169	86.	1		2015	244	24.
1		0135	20	119.	1		0750	95	169.	1		1405	170	86.	1		2020	245	24.
1		0140	21	127.	1		0755	96	167.	1		1410	171	85.	1		2025	246	23.
1		0145	22	129.	1		0800	97	165.	1		1415	172	84.	1		2030	247	22.
1		0150	23	116.	1		0805	98	164.	1		1420	173	84.	1		2035	248	22.
1		0155	24	94.	1		0810	99	162.	1		1425	174	83.	1		2040	249	22.
1		0200	25	80.	1		0815	100	161.	1		1430	175	82.	1		2045	250	22.
1		0205	26	79.	1		0820	101	160.	1		1435	176	82.	1		2050	251	21.
1		0210	27	106.	1		0825	102	159.	1		1440	177	81.	1		2055	252	21.
1		0215	28	162.	1		0830	103	157.	1		1445	178	80.	1		2100	253	21.
1		0220	29	209.	1		0835	104	156.	1		1450	179	80.	1		2105	254	21.
1		0225	30	223.	1		0840	105	155.	1		1455	180	79.	1		2110	255	21.
1		0230	31	201.	1		0845	106	154.	1		1500	181	78.	1		2115	256	20.
1		0235	32	181.	1		0850	107	153.	1		1505	182	77.	1		2120	257	20.
1		0240	33	211.	1		0855	108	153.	1		1510	183	76.	1		2125	258	20.
1		0245	34	251.	1		0900	109	152.	1		1515	184	75.	1		2130	259	20.
1		0250	35	247.	1		0905	110	151.	1		1520	185	75.	1		2135	260	20.
1		0255	36	223.	1		0910	111	150.	1		1525	186	74.	1		2140	261	19.
1		0300	37	239.	1		0915	112	149.	1		1530	187	73.	1		2145	262	19.
1		0305	38	345.	1		0920	113	148.	1		1535	188	72.	1		2150	263	19.
1		0310	39	499.	1		0925	114	147.	1		1540	189	72.	1		2155	264	19.
1		0315	40	743.	1		0930	115	145.	1		1545	190	71.	1		2200	265	19.
1		0320	41	1201.	1		0935	116	143.	1		1550	191	70.	1		2205	266	19.
1		0325	42	1763.	1		0940	117	142.	1		1555	192	69.	1		2210	267	18.
1		0330	43	2400.	1		0945	118	140.	1		1600	193	69.	1		2215	268	18.
1		0335	44	2663.	1		0950	119	139.	1		1605	194	68.	1		2220	269	18.
1		0340	45	2505.	1		0955	120	137.	1		1610	195	67.	1		2225	270	18.
1		0345	46	2425.	1		1000	121	136.	1		1615	196	67.	1		2230	271	18.
1		0350	47	2343.	1		1005	122	135.	1		1620	197	66.	1		2235	272	18.
1		0355	48	2267.	1		1010	123	133.	1		1625	198	65.	1		2240	273	17.
1		0400	49	2299.	1		1015	124	132.	1		1630	199	64.	1		2245	274	17.
1		0405	50	2290.	1		1020	125	131.	1		1635	200	64.	1		2250	275	17.
1		0410	51	2209.	1		1025	126	129.	1		1640	201	63.	1		2255	276	17.
1		0415	52	2132.	1		1030	127	128.	1		1645	202	62.	1		2300	277	17.
1		0420	53	2070.	1		1035	128	127.	1		1650	203	62.	1		2305	278	17.
1		0425	54	2018.	1		1040	129	126.	1		1655	204	61.	1		2310	279	16.
1		0430	55	2018.	1		1045	130	125.	1		1700	205	61.	1		2315	280	15.
1		0435	56	2013.	1		1050	131	124.	1		1705	206	60.	1		2320	281	15.
1		0440	57	1923.	1		1055	132	122.	1		1710	207	59.	1		2325	282	14.
1		0445	58	1808.	1		1100	133	121.	1		1715	208	59.	1		2330	283	13.
1		0450	59	1753.	1		1105	134	120.	1		1720	209	58.	1		2335	284	13.
1		0455	60	1674.	1		1110	135	118.	1		1725	210	57.	1		2340	285	12.
1		0500	61	1532.	1		1115	136	117.	1		1730	211	57.	1		2345	286	11.
1		0505	62	1397.	1		1120	137	115.	1		1735	212	56.	1		2350	287	11.
1		0510	63	1273.	1		1125	138	114.	1		1740	213	56.	1		2355	288	10.
1		0515	64	1169.	1		1130	139	113.	1		1745	214	55.	2		0000	289	10.
1		0520	65	1079.	1		1135	140	111.	1		1750	215	55.	2		0005	290	9.
1		0525	66	1005.	1		1140	141	110.	1		1755	216	54.	2		0010	291	9.
1		0530	67	931.	1		1145	142	109.	1		1800	217	53.	2		0015	292	9.
1		0535	68	851.	1		1150	143	107.	1		1805	218	53.	2		0020	293	8.
1		0540	69	781.	1		1155	144	106.	1		1810	219	52.	2		0025	294	6.
1		0545	70	727.	1		1200	145	104.	1		1815	220	52.	2		0030	295	5.
1		0550	71	671.	1		1205	146	103.	1		1820	221	51.	2		0035	296	4.
1		0555	72	608.	1		1210	147	101.	1		1825	222	51.	2		0040	297	3.
1		0600	73	554.	1		1215	148	100.	1		1830	223	50.	2		0045	298	2.
1		0605	74	504.	1		1220	149	99.	1		1835	224	50.	2		0050	299	2.
1		0610	75	454.	1		1225	150	97.	1		1840	225	49.	2		0055	300	2.

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
2663.	3.58	(CFS)	896.	277.	267.	267.
		(INCHES)	3.507	4.334	4.337	4.337
		(AC-FT)	444.	549.	550.	550.

CUMULATIVE AREA = 2.38 SQ MI

HYDROGRAPH AT STATION CP43
SUM OF 2 HYDROGRAPHS
PLAN 1, RATIO = .90

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	406.	1		1230	151	94.	1		1845	226	47.
1		0005	2	0.	1		0620	77	371.	1		1235	152	93.	1		1850	227	47.
1		0010	3	11.	1		0625	78	341.	1		1240	153	93.	1		1855	228	46.
1		0015	4	23.	1		0630	79	315.	1		1245	154	92.	1		1900	229	46.
1		0020	5	35.	1		0635	80	292.	1		1250	155	92.	1		1905	230	45.
1		0025	6	59.	1		0640	81	273.	1		1255	156	91.	1		1910	231	43.
1		0030	7	84.	1		0645	82	256.	1		1300	157	91.	1		1915	232	41.
1		0035	8	86.	1		0650	83	241.	1		1305	158	91.	1		1920	233	40.
1		0040	9	63.	1		0655	84	228.	1		1310	159	90.	1		1925	234	38.
1		0045	10	38.	1		0700	85	217.	1		1315	160	90.	1		1930	235	37.
1		0050	11	22.	1		0705	86	208.	1		1320	161	89.	1		1935	236	36.
1		0055	12	13.	1		0710	87	200.	1		1325	162	89.	1		1940	237	34.
1		0100	13	9.	1		0715	88	193.	1		1330	163	89.	1		1945	238	32.
1		0105	14	11.	1		0720	89	188.	1		1335	164	88.	1		1950	239	29.
1		0110	15	26.	1		0725	90	183.	1		1340	165	87.	1		1955	240	27.
1		0115	16	35.	1		0730	91	179.	1		1345	166	87.	1		2000	241	25.

1	0120	17	39.	*	1	0735	92	175.	*	1	1350	167	86.	*	1	2005	242	24.
1	0125	18	58.	*	1	0740	93	172.	*	1	1355	168	86.	*	1	2010	243	23.
1	0130	19	92.	*	1	0745	94	170.	*	1	1400	169	85.	*	1	2015	244	23.
1	0135	20	116.	*	1	0750	95	168.	*	1	1405	170	84.	*	1	2020	245	22.
1	0140	21	124.	*	1	0755	96	166.	*	1	1410	171	84.	*	1	2025	246	22.
1	0145	22	125.	*	1	0800	97	164.	*	1	1415	172	83.	*	1	2030	247	22.
1	0150	23	113.	*	1	0805	98	162.	*	1	1420	173	82.	*	1	2035	248	21.
1	0155	24	91.	*	1	0810	99	161.	*	1	1425	174	82.	*	1	2040	249	21.
1	0200	25	77.	*	1	0815	100	159.	*	1	1430	175	81.	*	1	2045	250	21.
1	0205	26	76.	*	1	0820	101	158.	*	1	1435	176	80.	*	1	2050	251	21.
1	0210	27	103.	*	1	0825	102	157.	*	1	1440	177	79.	*	1	2055	252	21.
1	0215	28	157.	*	1	0830	103	156.	*	1	1445	178	78.	*	1	2100	253	20.
1	0220	29	204.	*	1	0835	104	155.	*	1	1450	179	78.	*	1	2105	254	20.
1	0225	30	217.	*	1	0840	105	154.	*	1	1455	180	77.	*	1	2110	255	20.
1	0230	31	196.	*	1	0845	106	153.	*	1	1500	181	76.	*	1	2115	256	20.
1	0235	32	176.	*	1	0850	107	152.	*	1	1505	182	75.	*	1	2120	257	20.
1	0240	33	205.	*	1	0855	108	151.	*	1	1510	183	74.	*	1	2125	258	19.
1	0245	34	245.	*	1	0900	109	150.	*	1	1515	184	74.	*	1	2130	259	19.
1	0250	35	240.	*	1	0905	110	149.	*	1	1520	185	73.	*	1	2135	260	19.
1	0255	36	216.	*	1	0910	111	148.	*	1	1525	186	72.	*	1	2140	261	19.
1	0300	37	233.	*	1	0915	112	147.	*	1	1530	187	71.	*	1	2145	262	19.
1	0305	38	338.	*	1	0920	113	146.	*	1	1535	188	71.	*	1	2150	263	19.
1	0310	39	489.	*	1	0925	114	145.	*	1	1540	189	70.	*	1	2155	264	18.
1	0315	40	728.	*	1	0930	115	143.	*	1	1545	190	69.	*	1	2200	265	18.
1	0320	41	1179.	*	1	0935	116	141.	*	1	1550	191	68.	*	1	2205	266	18.
1	0325	42	1733.	*	1	0940	117	140.	*	1	1555	192	68.	*	1	2210	267	18.
1	0330	43	2359.	*	1	0945	118	138.	*	1	1600	193	67.	*	1	2215	268	18.
1	0335	44	2618.	*	1	0950	119	137.	*	1	1605	194	66.	*	1	2220	269	18.
1	0340	45	2462.	*	1	0955	120	135.	*	1	1610	195	66.	*	1	2225	270	17.
1	0345	46	2384.	*	1	1000	121	134.	*	1	1615	196	65.	*	1	2230	271	17.
1	0350	47	2302.	*	1	1005	122	133.	*	1	1620	197	64.	*	1	2235	272	17.
1	0355	48	2226.	*	1	1010	123	131.	*	1	1625	198	64.	*	1	2240	273	17.
1	0400	49	2257.	*	1	1015	124	130.	*	1	1630	199	63.	*	1	2245	274	17.
1	0405	50	2250.	*	1	1020	125	129.	*	1	1635	200	62.	*	1	2250	275	17.
1	0410	51	2169.	*	1	1025	126	128.	*	1	1640	201	62.	*	1	2255	276	16.
1	0415	52	2094.	*	1	1030	127	127.	*	1	1645	202	61.	*	1	2300	277	15.
1	0420	53	2034.	*	1	1035	128	125.	*	1	1650	203	60.	*	1	2305	278	15.
1	0425	54	1984.	*	1	1040	129	124.	*	1	1655	204	60.	*	1	2310	279	14.
1	0430	55	1985.	*	1	1045	130	123.	*	1	1700	205	59.	*	1	2315	280	13.
1	0435	56	1981.	*	1	1050	131	122.	*	1	1705	206	58.	*	1	2320	281	13.
1	0440	57	1893.	*	1	1055	132	121.	*	1	1710	207	58.	*	1	2325	282	12.
1	0445	58	1780.	*	1	1100	133	119.	*	1	1715	208	57.	*	1	2330	283	12.
1	0450	59	1726.	*	1	1105	134	118.	*	1	1720	209	57.	*	1	2335	284	11.
1	0455	60	1648.	*	1	1110	135	116.	*	1	1725	210	56.	*	1	2340	285	10.
1	0500	61	1509.	*	1	1115	136	115.	*	1	1730	211	55.	*	1	2345	286	10.
1	0505	62	1376.	*	1	1120	137	113.	*	1	1735	212	55.	*	1	2350	287	10.
1	0510	63	1254.	*	1	1125	138	112.	*	1	1740	213	54.	*	1	2355	288	9.
1	0515	64	1152.	*	1	1130	139	111.	*	1	1745	214	54.	*	2	0000	289	9.
1	0520	65	1063.	*	1	1135	140	110.	*	1	1750	215	53.	*	2	0005	290	8.
1	0525	66	991.	*	1	1140	141	109.	*	1	1755	216	53.	*	2	0010	291	6.
1	0530	67	919.	*	1	1145	142	107.	*	1	1800	217	52.	*	2	0015	292	5.
1	0535	68	840.	*	1	1150	143	105.	*	1	1805	218	52.	*	2	0020	293	4.
1	0540	69	770.	*	1	1155	144	103.	*	1	1810	219	51.	*	2	0025	294	3.
1	0545	70	718.	*	1	1200	145	102.	*	1	1815	220	50.	*	2	0030	295	3.
1	0550	71	662.	*	1	1205	146	101.	*	1	1820	221	50.	*	2	0035	296	2.
1	0555	72	600.	*	1	1210	147	100.	*	1	1825	222	49.	*	2	0040	297	2.
1	0600	73	548.	*	1	1215	148	99.	*	1	1830	223	49.	*	2	0045	298	1.
1	0605	74	498.	*	1	1220	149	96.	*	1	1835	224	48.	*	2	0050	299	1.
1	0610	75	448.	*	1	1225	150	94.	*	1	1840	225	48.	*	2	0055	300	1.

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)	(CFS)				
+ 2618.	3.58		882.	272.	262.	262.
		(INCHES)	3.450	4.260	4.261	4.261
		(AC-FT)	437.	540.	540.	540.

CUMULATIVE AREA = 2.38 SQ MI

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HYDROGRAPH AT STATION CP43
SUM OF 2 HYDROGRAPHS
PLAN 1, RATIO = .70

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	307.	*	1		1230	151	63.	*	1		1845	226	12.
1		0005	2	0.	*	1		0620	77	282.	*	1		1235	152	63.	*	1		1850	227	12.
1		0010	3	5.	*	1		0625	78	261.	*	1		1240	153	62.	*	1		1855	228	11.
1		0015	4	11.	*	1		0630	79	242.	*	1		1245	154	61.	*	1		1900	229	11.
1		0020	5	18.	*	1		0635	80	226.	*	1		1250	155	61.	*	1		1905	230	10.
1		0025	6	31.	*	1		0640	81	212.	*	1		1255	156	60.	*	1		1910	231	10.
1		0030	7	43.	*	1		0645	82	200.	*	1		1300	157	59.	*	1		1915	232	9.
1		0035	8	44.	*	1		0650	83	190.	*	1		1305	158	59.	*	1		1920	233	9.
1		0040	9	32.	*	1		0655	84	180.	*	1		1310	159	58.	*	1		1925	234	8.
1		0045	10	19.	*	1		0700	85	173.	*	1		1315	160	58.	*	1		1930	235	7.
1		0050	11	11.	*	1		0705	86	166.	*	1		1320	161	57.	*	1		1935	236	5.
1		0055	12	6.	*	1		0710	87	160.	*	1		1325	162	56.	*	1		1940	237	4.
1		0100	13	4.	*	1		0715	88	155.	*	1		1330	163	56.	*	1		1945	238	3.
1		0105	14	5.	*	1		0720	89	151.	*	1		1335	164	55.	*	1		1950	239	3.
1		0110	15	14.	*	1		0725	90	148.	*	1		1340	165	55.	*	1		1955	240	2.
1		0115	16	18.	*	1		0730	91	145.	*	1		1345	166	54.	*	1		2000	241	2.
1		0120	17	20.	*	1		0735	92	142.	*	1		1350	167	53.	*	1		2005	242	1.
1		0125	18	31.	*	1		0740	93	139.	*	1		1355	168	53.	*	1		2010	243	1.
1		0130	19	50.	*	1		0745	94	137.	*	1		1400	169	52.	*	1		2015	244	1.
1		0135	20	63.	*	1		0750	95	134.	*	1		1405	170	52.	*	1		2020	245	1.
1		0140	21	67.	*	1		0755	96	132.	*	1		1410	171	51.	*	1		2025	246	1.
1		0145	22	67.	*	1		0800	97	130.	*	1		1415	172	51.	*	1		2030	247	0.
1		0150	23	58.	*	1		0805	98	128.	*	1		1420	173	50.	*	1		2035	248	0.
1		0155	24	43.	*	1		0810	99	126.	*	1		1425	174	50.	*	1		2040	249	0.
1		0200	25	32.	*	1		0815	100	125.	*	1		1430	175	49.	*	1		2045	250	0.
1		0205	26	30.	*	1		0820	101	123.	*	1		1435	176	49.	*	1		2050	251	0.
1		0210	27	46.	*	1		0825	102	122.	*	1		1440	177	48.	*	1		2055	252	0.
1		0215	28	79.	*	1		0830	103	120.	*	1		1445	178	48.	*	1		2100	253	0.
1		0220	29	109.	*	1		0835	104	119.	*	1		1450	179	47.	*	1		2105	254	0.
1		0225	30	118.	*	1		0840	105	118.	*	1		1455	180	47.	*	1		2110	255	0.
1		0230	31	105.	*	1		0845	106	117.	*	1		1500	181	46.	*	1		2115	256	0.
1		0235	32	92.	*	1		0850	107	115.	*	1		1505	182	46.	*	1		2120	257	0.
1		0240	33	111.	*	1		0855	108	114.	*	1		1510	183	45.	*	1		2125	258	0.
1		0245	34	135.	*	1		0900	109	113.	*	1		1515	184	45.	*	1		2130	259	0.
1		0250	35	130.	*	1		0905	110	112.	*	1		1520	185	44.	*	1		2135	260	0.
1		0255	36	113.	*	1		0910	111	111.	*	1		1525	186	44.	*	1		2140	261	0.
1		0300	37	124.	*	1		0915	112	110.	*	1		1530	187	43.	*	1		2145	262	0.
1		0305	38	193.	*	1		0920	113	108.	*	1		1535	188	43.	*	1		2150	263	0.
1		0310	39	293.	*	1		0925	114	107.	*	1		1540	189	42.	*	1		2155	264	0.
1		0315	40	453.	*	1		0930	115	105.	*	1		1545	190	41.	*	1		2200	265	0.
1		0320	41	760.	*	1		0935	116	104.	*	1		1550	191	39.	*	1		2205	266	0.
1		0325	42	1138.	*	1		0940	117	102.	*	1		1555	192	37.	*	1		2210	267	0.
1		0330	43	1580.	*	1		0945	118	101.	*	1		1600	193	36.	*	1		2215	268	0.
1		0335	44	1754.	*	1		0950	119	99.	*	1		1605	194	34.	*	1		2220	269	0.
1		0340	45	1630.	*	1		0955	120	98.	*	1		1610	195	33.	*	1		2225	270	0.
1		0345	46	1571.	*	1		1000	121	97.	*	1		1615	196	32.	*	1		2230	271	0.
1		0350	47	1499.	*	1		1005	122	95.	*	1		1620	197	31.	*	1		2235	272	0.
1		0355	48	1440.	*	1		1010	123	93.	*	1		1625	198	27.	*	1		2240	273	0.
1		0400	49	1462.	*	1		1015	124	91.	*	1		1630	199	24.	*	1		2245	274	0.
1		0405	50	1461.	*	1		1020	125	89.	*	1		1635	200	23.	*	1		2250	275	0.
1		0410	51	1412.	*	1		1025	126	88.	*	1		1640	201	22.	*	1		2255	276	0.
1		0415	52	1371.	*	1		1030	127	86.	*	1		1645	202	21.	*	1		2300	277	0.
1		0420	53	1341.	*	1		1035	128	85.	*	1		1650	203	20.	*	1		2305	278	0.
1		0425	54	1320.	*	1		1040	129	82.	*	1		1655	204	20.	*	1		2310	279	0.

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0430	55	1336.	1		1045	130	80.	1		1700	205	19.	1		2315	280	0.
1		0435	56	1348.	1		1050	131	78.	1		1705	206	19.	1		2320	281	0.
1		0440	57	1297.	1		1055	132	78.	1		1710	207	19.	1		2325	282	0.
1		0445	58	1226.	1		1100	133	77.	1		1715	208	19.	1		2330	283	0.
1		0450	59	1198.	1		1105	134	76.	1		1720	209	18.	1		2335	284	0.
1		0455	60	1151.	1		1110	135	75.	1		1725	210	18.	1		2340	285	0.
1		0500	61	1057.	1		1115	136	74.	1		1730	211	18.	1		2345	286	0.
1		0505	62	966.	1		1120	137	73.	1		1735	212	18.	1		2350	287	0.
1		0510	63	883.	1		1125	138	73.	1		1740	213	18.	1		2355	288	0.
1		0515	64	815.	1		1130	139	72.	1		1745	214	17.	2		0000	289	0.
1		0520	65	755.	1		1135	140	71.	1		1750	215	17.	2		0005	290	0.
1		0525	66	707.	1		1140	141	70.	1		1755	216	17.	2		0010	291	0.
1		0530	67	659.	1		1145	142	70.	1		1800	217	17.	2		0015	292	0.
1		0535	68	605.	1		1150	143	69.	1		1805	218	17.	2		0020	293	0.
1		0540	69	558.	1		1155	144	68.	1		1810	219	17.	2		0025	294	0.
1		0545	70	523.	1		1200	145	67.	1		1815	220	16.	2		0030	295	0.
1		0550	71	486.	1		1205	146	67.	1		1820	221	15.	2		0035	296	0.
1		0555	72	442.	1		1210	147	66.	1		1825	222	15.	2		0040	297	0.
1		0600	73	406.	1		1215	148	65.	1		1830	223	14.	2		0045	298	0.
1		0605	74	371.	1		1220	149	65.	1		1835	224	13.	2		0050	299	0.
1		0610	75	337.	1		1225	150	64.	1		1840	225	13.	2		0055	300	0.

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1754.	3.58	(CFS)	601.	179.	172.	172.
		(INCHES)	2.353	2.802	2.802	2.802
		(AC-FT)	298.	355.	355.	355.

CUMULATIVE AREA = 2.38 SQ MI

HYDROGRAPH AT STATION CP43
SUM OF 2 HYDROGRAPHS
PLAN 1, RATIO = .57

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	239.	1		1230	151	45.	1		1845	226	0.
1		0005	2	0.	1		0620	77	221.	1		1235	152	45.	1		1850	227	0.
1		0010	3	3.	1		0625	78	205.	1		1240	153	44.	1		1855	228	0.
1		0015	4	6.	1		0630	79	191.	1		1245	154	44.	1		1900	229	0.
1		0020	5	10.	1		0635	80	179.	1		1250	155	43.	1		1905	230	0.
1		0025	6	18.	1		0640	81	168.	1		1255	156	43.	1		1910	231	0.
1		0030	7	25.	1		0645	82	158.	1		1300	157	42.	1		1915	232	0.
1		0035	8	25.	1		0650	83	150.	1		1305	158	42.	1		1920	233	0.
1		0040	9	18.	1		0655	84	143.	1		1310	159	42.	1		1925	234	0.
1		0045	10	10.	1		0700	85	136.	1		1315	160	40.	1		1930	235	0.
1		0050	11	6.	1		0705	86	131.	1		1320	161	39.	1		1935	236	0.
1		0055	12	3.	1		0710	87	126.	1		1325	162	37.	1		1940	237	0.
1		0100	13	2.	1		0715	88	122.	1		1330	163	35.	1		1945	238	0.
1		0105	14	3.	1		0720	89	118.	1		1335	164	34.	1		1950	239	0.
1		0110	15	8.	1		0725	90	115.	1		1340	165	33.	1		1955	240	0.
1		0115	16	10.	1		0730	91	112.	1		1345	166	31.	1		2000	241	0.
1		0120	17	12.	1		0735	92	110.	1		1350	167	30.	1		2005	242	0.
1		0125	18	18.	1		0740	93	107.	1		1355	168	28.	1		2010	243	0.
1		0130	19	30.	1		0745	94	105.	1		1400	169	24.	1		2015	244	0.
1		0135	20	38.	1		0750	95	103.	1		1405	170	22.	1		2020	245	0.
1		0140	21	41.	1		0755	96	101.	1		1410	171	21.	1		2025	246	0.
1		0145	22	41.	1		0800	97	100.	1		1415	172	20.	1		2030	247	0.
1		0150	23	34.	1		0805	98	98.	1		1420	173	19.	1		2035	248	0.
1		0155	24	24.	1		0810	99	95.	1		1425	174	19.	1		2040	249	0.
1		0200	25	17.	1		0815	100	93.	1		1430	175	19.	1		2045	250	0.
1		0205	26	14.	1		0820	101	92.	1		1435	176	18.	1		2050	251	0.
1		0210	27	24.	1		0825	102	90.	1		1440	177	18.	1		2055	252	0.
1		0215	28	45.	1		0830	103	88.	1		1445	178	18.	1		2100	253	0.
1		0220	29	63.	1		0835	104	87.	1		1450	179	18.	1		2105	254	0.
1		0225	30	68.	1		0840	105	85.	1		1455	180	17.	1		2110	255	0.
1		0230	31	58.	1		0845	106	84.	1		1500	181	17.	1		2115	256	0.
1		0235	32	49.	1		0850	107	82.	1		1505	182	17.	1		2120	257	0.
1		0240	33	61.	1		0855	108	80.	1		1510	183	17.	1		2125	258	0.
1		0245	34	77.	1		0900	109	78.	1		1515	184	17.	1		2130	259	0.
1		0250	35	73.	1		0905	110	76.	1		1520	185	17.	1		2135	260	0.
1		0255	36	62.	1		0910	111	75.	1		1525	186	16.	1		2140	261	0.
1		0300	37	69.	1		0915	112	73.	1		1530	187	15.	1		2145	262	0.
1		0305	38	118.	1		0920	113	72.	1		1535	188	14.	1		2150	263	0.
1		0310	39	188.	1		0925	114	70.	1		1540	189	14.	1		2155	264	0.
1		0315	40	300.	1		0930	115	67.	1		1545	190	13.	1		2200	265	0.
1		0320	41	518.	1		0935	116	66.	1		1550	191	12.	1		2205	266	0.
1		0325	42	788.	1		0940	117	65.	1		1555	192	12.	1		2210	267	0.
1		0330	43	1109.	1		0945	118	64.	1		1600	193	11.	1		2215	268	0.
1		0335	44	1239.	1		0950	119	64.	1		1605	194	11.	1		2220	269	0.
1		0340	45	1142.	1		0955	120	63.	1		1610	195	10.	1		2225	270	0.
1		0345	46	1084.	1		1000	121	62.	1		1615	196	10.	1		2230	271	0.
1		0350	47	1022.	1		1005	122	62.	1		1620	197	9.	1		2235	272	0.
1		0355	48	973.	1		1010	123	61.	1		1625	198	9.	1		2240	273	0.
1		0400	49	990.	1		1015	124	60.	1		1630	199	8.	1		2245	274	0.
1		0405	50	993.	1		1020	125	60.	1		1635	200	7.	1		2250	275	0.
1		0410	51	959.	1		1025	126	59.	1		1640	201	6.	1		2255	276	0.
1		0415	52	935.	1		1030	127	58.	1		1645	202	4.	1		2300	277	0.
1		0420	53	922.	1		1035	128	58.	1		1650	203	4.	1		2305	278	0.
1		0425	54	916.	1		1040	129	57.	1		1655	204	3.	1		2310	279	0.
1		0430	55	940.	1		1045	130	57.	1		1700	205	2.	1		2315	280	0.
1		0435	56	959.	1		1050	131	56.	1		1705	206	2.	1		2320	281	0.
1		0440	57	930.	1		1055	132	55.	1		1710	207	1.	1		2325	282	0.
1		0445	58	884.	1		1100	133	55.	1		1715	208	1.	1		2330	283	0.
1		0450	59	870.	1		1105	134	54.	1		1720	209	1.	1		2335	284	0.
1		0455	60	840.	1		1110	135	54.	1		1725	210	1.	1		2340	285	0.
1		0500	61	773.	1		1115	136	53.	1		1730	211	1.	1		2345	286	0.
1		0505	62	708.	1		1120	137	52.	1		1735	212	0.	1		2350	287	0.
1		0510	63	649.	1		1125	138	52.	1		1740	213	0.	1		2355	288	0.
1		0515	64	600.	1		1130	139	51.	1		1745	214	0.	2		0000	289	0.
1		0520	65	558.	1		1135	140	51.	1		1750	215	0.	2		0005	290	0.
1		0525	66	524.	1		1140	141	50.	1		1755	216	0.	2		0010	291	0.
1		0530	67	491.	1		1145	142	50.	1		1800	217	0.	2		0015	292	0.
1		0535	68	453.	1		1150	143	49.	1		1805	218	0.	2		0020	293	0.
1		0540	69	419.	1		1155	144	49.	1		1810	219	0.	2		0025	294	0.
1		0545	70	395.	1		1200	145	48.	1		1815	220	0.	2		0030	295	0.
1		0550	71	369.	1		1205	146	48.	1		1820	221	0.	2		0035	296	0.
1		0555	72	338.	1		1210	147	47.	1		1825	222	0.	2		0040	297	0.
1		0600	73	312.	1		1215	148	47.	1		1830	223	0.	2		0045	298	0.
1		0605	74	286.	1		1220	149	46.	1		1835	224	0.	2		0050	299	0.
1		0610	75	261.	1		1225	150	46.	1		1840	225	0.	2		0055	300	0.

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
1239.	3.58	(CFS)	430.	124.	119.	119.
		(INCHES)	1.682	1.934	1.934	1.934
		(AC-FT)	213.	245.	245.	245.

CUMULATIVE AREA = 2.38 SQ MI

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PEAK FLOW AND STAGE (END-OF-PERIOD) SUMMARY FOR MULTIPLE PLAN-RATIO ECONOMIC COMPUTATIONS
FLOWS IN CUBIC FEET PER SECOND, AREA IN SQUARE MILES

TIME TO PEAK IN HOURS

OPERATION	STATION	AREA	PLAN		RATIOS APPLIED TO PRECIPITATION RATIO 1 1.00	RATIO 2 .98	RATIO 3 .97	RATIO 4 .93	RATIO 5 .91	RATIO 6 .90	RATIO 7 .70	RATIO 8 .57
HYDROGRAPH AT	OFF21	.53	1	FLOW	475.	461.	454.	426.	412.	405.	269.	186.
+				TIME	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92
HYDROGRAPH AT	OFF20	.33	1	FLOW	308.	299.	294.	276.	268.	263.	176.	123.
+				TIME	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92
HYDROGRAPH AT	DB1	.02	1	FLOW	43.	42.	41.	39.	38.	38.	28.	21.
+				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
3 COMBINED AT	PT1	.89	1	FLOW	801.	777.	765.	718.	695.	684.	457.	317.
+				TIME	3.83	3.83	3.83	3.92	3.92	3.92	3.92	3.92
ROUTED TO	DET1	.89	1	FLOW	151.	148.	147.	143.	140.	139.	113.	94.
+				TIME	5.42	5.42	5.42	5.42	5.42	5.42	5.33	5.25
			**	PEAK STAGES IN FEET **								
			1	STAGE	41.00	40.70	40.55	39.96	39.67	39.52	36.65	34.87
				TIME	5.42	5.42	5.42	5.42	5.42	5.42	5.33	5.25
DIVERSION TO	DIV-1	.89	1	FLOW	69.	68.	68.	66.	64.	64.	52.	43.
+				TIME	5.42	5.42	5.42	5.42	5.42	5.42	5.33	5.25
HYDROGRAPH AT	DIV1	.89	1	FLOW	81.	80.	80.	77.	76.	75.	61.	51.
+				TIME	5.42	5.42	5.42	5.42	5.42	5.42	5.33	5.25
HYDROGRAPH AT	OFF18	.28	1	FLOW	287.	279.	274.	257.	249.	245.	162.	111.
+				TIME	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75
HYDROGRAPH AT	DB2	.03	1	FLOW	55.	54.	53.	50.	49.	49.	36.	27.
+				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
3 COMBINED AT	PT2	1.20	1	FLOW	378.	368.	363.	343.	333.	328.	225.	160.
+				TIME	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75
ROUTED TO	DET2	1.20	1	FLOW	50.	49.	49.	48.	48.	47.	42.	35.
+				TIME	9.58	9.42	9.42	9.17	9.08	9.08	7.83	7.00
			**	PEAK STAGES IN FEET **								
			1	STAGE	31.04	30.91	30.85	30.59	30.47	30.41	29.17	27.99
				TIME	9.58	9.50	9.42	9.25	9.17	9.08	7.83	7.08
DIVERSION TO	DIV-2	1.20	1	FLOW	50.	49.	49.	48.	48.	47.	42.	35.
+				TIME	9.58	9.42	9.42	9.17	9.08	9.08	7.83	7.00
HYDROGRAPH AT	DIV2	1.20	1	FLOW	0.	0.	0.	0.	0.	0.	0.	0.
+				TIME	.00	.00	.00	.00	.00	.00	.00	.00
HYDROGRAPH AT	OFF16	.79	1	FLOW	555.	538.	530.	498.	482.	474.	317.	220.
+				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
HYDROGRAPH AT	DB3	.03	1	FLOW	51.	50.	49.	47.	46.	45.	33.	25.
+				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT	PT3	.82	1	FLOW	565.	549.	540.	508.	491.	483.	324.	226.
+				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
ROUTED TO	DET3	.82	1	FLOW	76.	75.	74.	73.	72.	71.	58.	49.
+				TIME	6.08	6.08	6.08	6.08	6.08	6.08	6.00	5.92
			**	PEAK STAGES IN FEET **								
			1	STAGE	11.51	11.28	11.17	10.73	10.51	10.40	8.07	6.66
				TIME	6.08	6.08	6.08	6.08	6.08	6.08	6.00	5.92
DIVERSION TO	DIV-3	.82	1	FLOW	76.	75.	74.	73.	72.	71.	58.	49.
+				TIME	6.08	6.08	6.08	6.08	6.08	6.08	6.00	5.92
HYDROGRAPH AT	DIV3	.82	1	FLOW	0.	0.	0.	0.	0.	0.	0.	0.
+				TIME	.00	.00	.00	.00	.00	.00	.00	.00
2 COMBINED AT	EMPTY	2.02	1	FLOW	0.	0.	0.	0.	0.	0.	0.	0.
+				TIME	.00	.00	.00	.00	.00	.00	.00	.00
HYDROGRAPH AT	DIV-1	.00	1	FLOW	69.	68.	68.	66.	64.	64.	52.	43.
+				TIME	5.42	5.42	5.42	5.42	5.42	5.42	5.33	5.25
HYDROGRAPH AT	AROY1	.00	1	FLOW	5.	4.	4.	4.	4.	4.	3.	2.
+				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT	WPRK5	.00	1	FLOW	6.	6.	6.	5.	5.	5.	3.	2.
+				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT	SHEEP1	.10	1	FLOW	148.	144.	141.	133.	129.	127.	87.	61.
+				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
DIVERSION TO	DSHEPC	.10	1	FLOW	33.	32.	32.	30.	29.	28.	19.	14.
+				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT	SHEPAB	.10	1	FLOW	115.	112.	110.	104.	100.	99.	67.	48.
+				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
DIVERSION TO	DSHEPB	.10	1	FLOW	70.	68.	67.	63.	61.	60.	41.	29.
+				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT	RSHEPA	.10	1	FLOW	45.	44.	43.	41.	39.	39.	26.	19.
+				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT	AROY2	.01	1	FLOW	22.	21.	21.	19.	19.	19.	13.	9.
+				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
5 COMBINED AT	DUMMY	.12	1	FLOW	106.	103.	102.	96.	93.	92.	65.	50.
+				TIME								

				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	4.83
HYDROGRAPH AT												
+	WPRK3	.02	1	FLOW	32.	31.	31.	29.	28.	27.	18.	12.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
+	WGC2	.01	1	FLOW	19.	18.	18.	17.	17.	17.	13.	10.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
+	WML3B	.04	1	FLOW	81.	79.	79.	75.	73.	72.	54.	42.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT												
+	EGAN2	.00	1	FLOW	8.	7.	7.	7.	7.	7.	5.	4.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
5 COMBINED AT												
+	DUMMY	.20	1	FLOW	237.	231.	228.	216.	210.	207.	149.	111.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT												
+	WPRK2A	.01	1	FLOW	9.	9.	9.	8.	8.	8.	5.	3.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
+	WPRK2B	.00	1	FLOW	3.	3.	3.	3.	3.	3.	2.	1.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
+	AROY3	.00	1	FLOW	7.	7.	7.	6.	6.	6.	4.	3.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
+	WL3B	.03	1	FLOW	42.	41.	41.	39.	37.	37.	26.	19.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
5 COMBINED AT												
+	DUMMY	.24	1	FLOW	296.	288.	284.	269.	262.	258.	185.	137.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT												
+	HORSE2	.01	1	FLOW	25.	24.	24.	23.	23.	22.	17.	14.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
+	HUAL2A	.01	1	FLOW	11.	10.	10.	10.	10.	10.	7.	6.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
3 COMBINED AT												
+	HU-HO	.25	1	FLOW	330.	321.	317.	301.	292.	288.	208.	156.
				TIME	3.50	3.50	3.50	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT												
+	WML5	.04	1	FLOW	76.	75.	74.	70.	69.	68.	51.	40.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
+	WSCHL2	.02	1	FLOW	33.	33.	32.	31.	30.	29.	21.	16.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
+	WPRK1	.01	1	FLOW	18.	18.	18.	17.	16.	16.	10.	7.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
+	STRT5	.01	1	FLOW	15.	15.	14.	14.	13.	13.	10.	8.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
5 COMBINED AT												
+	DUMMY	.32	1	FLOW	473.	461.	455.	432.	420.	414.	297.	222.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
+	DSHEPB	.00	1	FLOW	70.	68.	67.	63.	61.	60.	41.	29.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT												
+	AROY5	.01	1	FLOW	20.	19.	19.	18.	17.	17.	12.	8.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
+	WMLA1	.07	1	FLOW	133.	130.	129.	123.	120.	119.	89.	69.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT												
+	HUAL2B	.01	1	FLOW	21.	20.	20.	19.	19.	19.	14.	11.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
5 COMBINED AT												
+	DUMMY	.42	1	FLOW	696.	679.	670.	636.	618.	610.	441.	334.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.58	3.58
HYDROGRAPH AT												
+	DIV-2	.00	1	FLOW	50.	49.	49.	48.	48.	47.	42.	35.
				TIME	9.58	9.42	9.42	9.17	9.08	9.08	7.83	7.00
HYDROGRAPH AT												
+	AROY4	.01	1	FLOW	13.	13.	13.	12.	11.	11.	8.	5.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
+	WML7	.04	1	FLOW	78.	76.	76.	72.	70.	69.	52.	40.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
+	WPRK4	.00	1	FLOW	7.	7.	7.	6.	6.	6.	4.	3.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
+	SHAUM2	.01	1	FLOW	17.	16.	16.	15.	15.	15.	12.	9.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
5 COMBINED AT												
+	DUMMY	.06	1	FLOW	136.	133.	132.	126.	123.	122.	92.	72.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
+	WL7	.02	1	FLOW	36.	35.	35.	33.	32.	31.	22.	16.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
+	WNVE2	.00	1	FLOW	3.	3.	3.	3.	2.	2.	2.	1.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT												
+	WL6	.01	1	FLOW	11.	11.	11.	10.	10.	10.	7.	5.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
+	HORS1A	.01	1	FLOW	19.	18.	18.	17.	17.	17.	13.	10.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
5 COMBINED AT												
+	SH-HO	.10	1	FLOW	205.	201.	198.	189.	184.	182.	136.	105.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50

+ HYDROGRAPH AT	DIV-3	.00	1	FLOW	76.	75.	74.	73.	72.	71.	58.	49.
				TIME	6.08	6.08	6.08	6.08	6.08	6.08	6.00	5.92
+ HYDROGRAPH AT	WL8	.01	1	FLOW	25.	24.	24.	22.	22.	21.	15.	11.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	WNVE3	.00	1	FLOW	4.	4.	4.	4.	4.	4.	2.	2.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	WL5	.04	1	FLOW	69.	67.	66.	62.	61.	60.	42.	30.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.58
+ HYDROGRAPH AT	IRON1A	.01	1	FLOW	12.	12.	12.	11.	11.	11.	9.	7.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 5 COMBINED AT	DUMMY	.06	1	FLOW	135.	132.	130.	124.	121.	119.	89.	68.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.58
+ HYDROGRAPH AT	SHAUM3	.00	1	FLOW	12.	11.	11.	11.	11.	10.	8.	6.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 3 COMBINED AT	IR-SH	.16	1	FLOW	352.	344.	340.	324.	316.	312.	232.	178.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	WML6	.03	1	FLOW	61.	59.	59.	56.	55.	54.	40.	32.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	HORS1B	.00	1	FLOW	8.	8.	8.	7.	7.	7.	6.	5.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	WL4	.05	1	FLOW	82.	80.	79.	74.	72.	71.	50.	37.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ 4 COMBINED AT	DUMMY	.24	1	FLOW	497.	485.	480.	456.	445.	439.	324.	247.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	DSHEPC	.00	1	FLOW	33.	32.	32.	30.	29.	28.	19.	14.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	IRON1B	.00	1	FLOW	9.	9.	9.	9.	9.	8.	7.	5.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 4 COMBINED AT	HU-IR	.67	1	FLOW	1231.	1201.	1186.	1126.	1096.	1081.	785.	592.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	OFFG	.04	1	FLOW	47.	46.	45.	42.	41.	40.	26.	18.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ 2 COMBINED AT	WPT40	.71	1	FLOW	1269.	1237.	1222.	1160.	1129.	1113.	805.	609.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.58
+ HYDROGRAPH AT	OFF10	.67	1	FLOW	608.	591.	582.	547.	530.	521.	352.	248.
				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.08
+ ROUTED TO	ROFF10	.67	1	FLOW	548.	532.	524.	493.	477.	469.	318.	224.
				TIME	4.58	4.58	4.58	4.58	4.58	4.58	4.67	4.67
+ HYDROGRAPH AT	OFFFA	.99	1	FLOW	870.	843.	830.	776.	750.	736.	479.	322.
				TIME	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92
+ ROUTED TO	ROFFFA	.99	1	FLOW	819.	793.	781.	730.	705.	693.	450.	303.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
+ HYDROGRAPH AT	OFFFB	.60	1	FLOW	428.	414.	407.	379.	366.	359.	229.	152.
				TIME	3.92	3.92	3.92	3.92	3.92	3.92	4.00	4.00
+ 3 COMBINED AT	COFFF1	2.26	1	FLOW	1469.	1423.	1400.	1310.	1265.	1242.	809.	549.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.25	4.25
+ HYDROGRAPH AT	WPRK6	.02	1	FLOW	21.	20.	20.	18.	18.	17.	11.	7.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 3 COMBINED AT	COFFF2	2.98	1	FLOW	1804.	1751.	1725.	1620.	1567.	1541.	1032.	731.
				TIME	4.08	4.08	4.08	4.08	4.08	4.08	4.08	3.58
+ HYDROGRAPH AT	OFFE	.04	1	FLOW	26.	25.	25.	22.	21.	21.	11.	6.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.75
+ HYDROGRAPH AT	OFFV	.01	1	FLOW	4.	4.	4.	4.	4.	3.	2.	1.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.67
+ 3 COMBINED AT	CKC5	3.03	1	FLOW	1816.	1763.	1736.	1630.	1578.	1551.	1038.	737.
				TIME	4.08	4.08	4.08	4.08	4.08	4.08	4.08	3.58
+ DIVERSION TO	DCKC7	3.03	1	FLOW	1816.	1763.	1736.	1630.	1578.	1551.	1038.	737.
				TIME	4.08	4.08	4.08	4.08	4.08	4.08	4.08	3.58
+ HYDROGRAPH AT	DCKC5	3.03	1	FLOW	0.	0.	0.	0.	0.	0.	0.	0.
				TIME	.00	.00	.00	.00	.00	.00	.00	.00
+ HYDROGRAPH AT	OFF17B	.01	1	FLOW	15.	15.	15.	14.	14.	13.	10.	7.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	OFF17A	.03	1	FLOW	51.	50.	49.	47.	45.	45.	32.	24.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 2 COMBINED AT	COFF17	.04	1	FLOW	66.	65.	64.	61.	59.	58.	42.	31.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ DIVERSION TO	DVCUL8	.04	1	FLOW	66.	65.	64.	61.	59.	58.	42.	31.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50

+ HYDROGRAPH AT	DCOF17	.04	1	FLOW	0.	0.	0.	0.	0.	0.	0.	0.
				TIME	.00	.00	.00	.00	.00	.00	.00	.00
+ HYDROGRAPH AT	ON1	.00	1	FLOW	8.	7.	7.	7.	7.	7.	5.	4.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	ON4A	.00	1	FLOW	8.	8.	8.	8.	7.	7.	5.	4.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 2 COMBINED AT	C1	.01	1	FLOW	16.	16.	15.	15.	14.	14.	10.	7.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ DIVERSION TO	DIV1	.01	1	FLOW	13.	13.	13.	12.	12.	11.	8.	6.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	D1	.01	1	FLOW	3.	3.	3.	3.	3.	3.	2.	1.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	ON5	.01	1	FLOW	10.	9.	9.	9.	9.	8.	6.	4.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 2 COMBINED AT	C2	.01	1	FLOW	13.	12.	12.	12.	11.	11.	8.	6.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ DIVERSION TO	DIV1A	.01	1	FLOW	13.	12.	12.	12.	11.	11.	8.	6.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	D1A	.01	1	FLOW	0.	0.	0.	0.	0.	0.	0.	0.
				TIME	.00	.00	.00	.00	.00	.00	.00	.00
+ HYDROGRAPH AT	ON4B	.00	1	FLOW	6.	5.	5.	5.	5.	5.	3.	3.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	RET1	.00	1	FLOW	13.	13.	13.	12.	12.	11.	8.	6.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	ON6	.00	1	FLOW	7.	7.	7.	7.	7.	6.	5.	3.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 2 COMBINED AT	C3	.00	1	FLOW	20.	20.	20.	19.	18.	18.	13.	9.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ DIVERSION TO	DIV1B	.00	1	FLOW	20.	20.	20.	19.	18.	18.	13.	9.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	D1B	.00	1	FLOW	0.	0.	0.	0.	0.	0.	0.	0.
				TIME	.00	.00	.00	.00	.00	.00	.00	.00
+ HYDROGRAPH AT	ON2	.00	1	FLOW	9.	9.	9.	8.	8.	8.	6.	4.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	ON3	.01	1	FLOW	12.	12.	11.	11.	10.	10.	7.	6.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	ON9	.00	1	FLOW	8.	8.	8.	7.	7.	7.	5.	4.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 3 COMBINED AT	C4	.02	1	FLOW	29.	28.	28.	26.	26.	25.	18.	13.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ DIVERSION TO	DIV2	.02	1	FLOW	24.	23.	23.	22.	21.	21.	15.	11.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	D2	.02	1	FLOW	5.	5.	5.	5.	4.	4.	3.	2.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	ON10	.00	1	FLOW	5.	5.	5.	4.	4.	4.	3.	2.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 2 COMBINED AT	C5	.02	1	FLOW	10.	10.	9.	9.	9.	9.	6.	5.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ DIVERSION TO	DIV3	.02	1	FLOW	8.	8.	8.	7.	7.	7.	5.	4.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	D3	.02	1	FLOW	2.	2.	2.	2.	2.	2.	1.	1.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	ON11	.00	1	FLOW	5.	5.	5.	4.	4.	4.	3.	2.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 2 COMBINED AT	C6	.02	1	FLOW	7.	7.	7.	6.	6.	6.	4.	3.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ DIVERSION TO	DIV1C	.02	1	FLOW	7.	7.	7.	6.	6.	6.	4.	3.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	D1C	.02	1	FLOW	0.	0.	0.	0.	0.	0.	0.	0.
				TIME	.00	.00	.00	.00	.00	.00	.00	.00
+ 4 COMBINED AT	CD1C	.04	1	FLOW	6.	5.	5.	5.	5.	5.	3.	3.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ ROUTED TO	RCD1C	.04	1	FLOW	5.	5.	5.	5.	5.	4.	3.	2.
				TIME	3.67	3.67	3.67	3.75	3.75	3.75	3.75	3.83
+ DIVERSION TO	DOFF23	.04	1	FLOW	5.	5.	5.	5.	5.	4.	3.	2.
				TIME	3.67	3.67	3.67	3.75	3.75	3.75	3.75	3.83
+ HYDROGRAPH AT	DRCD1C	.04	1	FLOW	0.	0.	0.	0.	0.	0.	0.	0.
				TIME	.00	.00	.00	.00	.00	.00	.00	.00

HYDROGRAPH AT

+	ON8	.00	1	FLOW	6.	6.	6.	5.	5.	5.	3.	2.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	RET2	.00	1	FLOW	24.	23.	23.	22.	21.	21.	15.	11.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 2 COMBINED AT	C7	.00	1	FLOW	30.	29.	29.	27.	26.	26.	18.	13.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	RET3	.00	1	FLOW	8.	8.	8.	7.	7.	7.	5.	4.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	ON7	.01	1	FLOW	14.	13.	13.	12.	12.	12.	9.	6.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 3 COMBINED AT	C8	.01	1	FLOW	51.	50.	49.	47.	45.	45.	32.	23.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	RET1A	.00	1	FLOW	13.	12.	12.	12.	11.	11.	8.	6.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	RET1B	.00	1	FLOW	20.	20.	20.	19.	18.	18.	13.	9.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	RET1C	.00	1	FLOW	7.	7.	7.	6.	6.	6.	4.	3.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 3 COMBINED AT	C9	.00	1	FLOW	40.	39.	38.	36.	35.	35.	25.	18.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	ON2D	.01	1	FLOW	21.	21.	20.	19.	19.	19.	14.	11.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	ON5D	.00	1	FLOW	8.	8.	8.	8.	7.	7.	6.	4.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 2 COMBINED AT	CP1	.01	1	FLOW	29.	29.	28.	27.	26.	26.	19.	15.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	ON3D	.00	1	FLOW	7.	7.	7.	7.	7.	7.	5.	4.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 2 COMBINED AT	CP2	.02	1	FLOW	37.	36.	36.	34.	33.	33.	24.	19.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	ON1D	.01	1	FLOW	16.	15.	15.	15.	14.	14.	10.	8.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	ON4D	.00	1	FLOW	8.	8.	8.	8.	7.	7.	5.	4.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 2 COMBINED AT	CP3	.01	1	FLOW	24.	23.	23.	22.	21.	21.	16.	12.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 2 COMBINED AT	CP4	.03	1	FLOW	61.	59.	59.	56.	55.	54.	40.	31.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 4 COMBINED AT	CENGCA	.08	1	FLOW	152.	148.	146.	139.	135.	134.	97.	73.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	WML4	.04	1	FLOW	68.	67.	66.	63.	61.	60.	44.	34.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	SHAUM1	.01	1	FLOW	14.	14.	14.	13.	13.	13.	10.	8.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	WML3A	.02	1	FLOW	38.	37.	37.	35.	34.	34.	25.	20.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	WML2	.09	1	FLOW	161.	158.	156.	149.	145.	143.	106.	82.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ 4 COMBINED AT	DUMMY	.15	1	FLOW	277.	271.	268.	255.	248.	245.	181.	140.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	EGAN1	.00	1	FLOW	10.	10.	10.	9.	9.	9.	7.	6.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	RACL1A	.01	1	FLOW	14.	13.	13.	13.	12.	12.	10.	8.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 3 COMBINED AT	RA-EG	.16	1	FLOW	301.	294.	291.	277.	270.	267.	198.	153.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	WML1	.02	1	FLOW	47.	46.	46.	44.	43.	42.	31.	24.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	STRT4	.00	1	FLOW	6.	6.	6.	6.	6.	6.	4.	3.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	WL3A	.03	1	FLOW	54.	53.	52.	49.	48.	47.	33.	25.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	WSCHL1	.06	1	FLOW	104.	101.	100.	94.	92.	90.	64.	47.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 5 COMBINED AT	DUMMY	.27	1	FLOW	510.	498.	492.	468.	456.	450.	329.	251.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	HUAL1	.01	1	FLOW	11.	11.	11.	11.	10.	10.	8.	6.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	RACL1B	.00	1	FLOW	11.	10.	10.	10.	10.	10.	7.	6.

				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 3 COMBINED AT	RA-HU	.28	1	FLOW	532.	519.	513.	488.	475.	469.	344.	263.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	WL1	.11	1	FLOW	156.	151.	149.	141.	137.	135.	94.	68.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	WNVE1	.01	1	FLOW	13.	13.	13.	12.	12.	12.	9.	7.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	WL2A	.05	1	FLOW	78.	76.	75.	71.	69.	68.	48.	35.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	RACL1C	.01	1	FLOW	14.	14.	14.	13.	13.	13.	10.	8.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 5 COMBINED AT	DUMMY	.45	1	FLOW	770.	752.	743.	706.	687.	678.	493.	374.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	GRAND1	.00	1	FLOW	6.	6.	6.	6.	6.	5.	4.	3.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ 2 COMBINED AT	CP26	.46	1	FLOW	777.	758.	749.	711.	693.	683.	497.	377.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ 2 COMBINED AT	CCP4	.54	1	FLOW	915.	893.	882.	837.	815.	804.	581.	438.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	OFF21B	.04	1	FLOW	75.	73.	72.	69.	67.	66.	49.	38.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 2 COMBINED AT	COF21B	.58	1	FLOW	990.	966.	954.	906.	882.	870.	630.	476.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ DIVERSION TO	DVCUL9	.58	1	FLOW	990.	966.	954.	906.	882.	870.	630.	476.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	DOF21B	.58	1	FLOW	0.	0.	0.	0.	0.	0.	0.	0.
				TIME	.00	.00	.00	.00	.00	.00	.00	.00
+ HYDROGRAPH AT	ROFF23	.00	1	FLOW	5.	5.	5.	5.	5.	4.	3.	2.
				TIME	3.67	3.67	3.67	3.75	3.75	3.75	3.75	3.83
+ HYDROGRAPH AT	OFF23	.01	1	FLOW	17.	16.	16.	15.	15.	15.	11.	8.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 4 COMBINED AT	COFF23	.63	1	FLOW	19.	18.	18.	17.	17.	16.	11.	9.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.50
+ DIVERSION TO	DCUL10	.63	1	FLOW	19.	18.	18.	17.	17.	16.	11.	8.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.50
+ HYDROGRAPH AT	DCOF23	.63	1	FLOW	0.	0.	0.	0.	0.	0.	0.	0.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.50	3.50
+ HYDROGRAPH AT	GT1	.02	1	FLOW	40.	39.	39.	37.	36.	36.	28.	22.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
+ HYDROGRAPH AT	OFFU	.04	1	FLOW	246.	245.	244.	241.	240.	239.	226.	218.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.67	3.67
+ 3 COMBINED AT	CP26WT	.69	1	FLOW	286.	284.	283.	278.	276.	275.	254.	241.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
+ DIVERSION TO	DCUL11	.69	1	FLOW	285.	283.	282.	277.	275.	274.	253.	240.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
+ HYDROGRAPH AT	DC26WT	.69	1	FLOW	1.	1.	1.	1.	1.	1.	1.	1.
				TIME	.00	.00	.00	.00	.00	.00	.00	.00
+ HYDROGRAPH AT	95-S	.03	1	FLOW	50.	48.	48.	45.	43.	43.	29.	21.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ DIVERSION TO	DCHD1B	.03	1	FLOW	45.	43.	43.	40.	39.	39.	27.	19.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	DHD01B	.03	1	FLOW	5.	5.	5.	4.	4.	4.	3.	2.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	OFF8	.01	1	FLOW	19.	19.	19.	18.	17.	17.	12.	8.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	OFFY	.01	1	FLOW	9.	8.	8.	7.	7.	7.	4.	2.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.75
+ HYDROGRAPH AT	WGED1B	.04	1	FLOW	62.	60.	59.	56.	55.	54.	39.	29.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.58
+ 4 COMBINED AT	CHD02B	.09	1	FLOW	92.	89.	88.	83.	81.	80.	56.	41.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ DIVERSION TO	DCHD2B	.09	1	FLOW	91.	88.	87.	82.	80.	79.	55.	41.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	DHD02B	.09	1	FLOW	1.	1.	1.	1.	1.	1.	1.	0.
				TIME	3.50	3.50	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	WGED1A	.02	1	FLOW	33.	32.	32.	31.	30.	29.	22.	17.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	STRT3	.00	1	FLOW	4.	4.	4.	4.	4.	4.	3.	2.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50

+ 2 COMBINED AT	WPT49	.02	1	FLOW	37.	36.	36.	34.	33.	33.	25.	19.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	95-6	.01	1	FLOW	17.	16.	16.	15.	15.	14.	10.	7.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	OFFW	.01	1	FLOW	9.	8.	8.	7.	7.	7.	4.	2.
				TIME	3.58	3.67	3.67	3.67	3.67	3.67	3.67	3.67
+ 4 COMBINED AT	CHD04B	.13	1	FLOW	61.	60.	59.	56.	54.	53.	38.	28.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ DIVERSION TO	DCHD4B	.13	1	FLOW	61.	60.	59.	56.	54.	53.	38.	28.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	DHD04B	.13	1	FLOW	0.	0.	0.	0.	0.	0.	0.	0.
				TIME	.00	.00	.00	.00	.00	.00	.00	.00
+ HYDROGRAPH AT	WBU3	.07	1	FLOW	123.	120.	119.	114.	111.	110.	82.	64.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	STRT2	.00	1	FLOW	8.	8.	8.	7.	7.	7.	5.	4.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	GRAND3	.01	1	FLOW	20.	19.	19.	18.	18.	18.	14.	11.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	WBU2B	.02	1	FLOW	44.	43.	42.	40.	39.	39.	29.	23.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	WGC1	.02	1	FLOW	41.	40.	40.	38.	37.	36.	27.	21.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 5 COMBINED AT	WPT48	.12	1	FLOW	231.	226.	224.	213.	208.	206.	154.	120.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	95-7A	.01	1	FLOW	13.	13.	13.	12.	12.	11.	8.	6.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 3 COMBINED AT	CHD05B	.26	1	FLOW	244.	239.	236.	225.	220.	217.	162.	126.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	WBU1	.04	1	FLOW	70.	69.	68.	65.	63.	63.	47.	36.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	STRT1	.00	1	FLOW	10.	10.	10.	10.	9.	9.	7.	6.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	WBU2A	.05	1	FLOW	95.	93.	92.	88.	86.	85.	63.	49.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	WL2B	.06	1	FLOW	98.	95.	94.	89.	86.	85.	60.	43.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	GRAND2	.00	1	FLOW	8.	8.	8.	8.	8.	7.	6.	5.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ 5 COMBINED AT	DUMMY	.16	1	FLOW	274.	268.	265.	252.	245.	242.	178.	136.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	HORSE3	.01	1	FLOW	25.	24.	24.	23.	22.	22.	17.	14.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 2 COMBINED AT	WPT46	.17	1	FLOW	296.	289.	286.	272.	265.	262.	193.	148.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	95-8A	.01	1	FLOW	10.	10.	10.	9.	9.	9.	7.	5.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	OFF14	.01	1	FLOW	19.	18.	18.	17.	16.	16.	11.	7.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 3 COMBINED AT	CHD06B	.19	1	FLOW	323.	315.	311.	296.	288.	284.	207.	159.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.58
+ DIVERSION TO	DCMPU6	.19	1	FLOW	108.	105.	104.	99.	96.	95.	69.	53.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.58
+ HYDROGRAPH AT	RCHD6B	.19	1	FLOW	215.	210.	207.	197.	192.	189.	138.	106.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.58
+ DIVERSION TO	DCHD6B	.19	1	FLOW	215.	210.	207.	197.	192.	189.	138.	106.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.58
+ HYDROGRAPH AT	DHD06B	.19	1	FLOW	0.	0.	0.	0.	0.	0.	0.	0.
				TIME	.00	.00	.00	.00	.00	.00	.00	.00
+ HYDROGRAPH AT	95-9A	.01	1	FLOW	19.	19.	18.	18.	17.	17.	12.	9.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 2 COMBINED AT	CHD07B	.20	1	FLOW	19.	19.	18.	18.	17.	17.	12.	9.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	OFF15	.03	1	FLOW	47.	45.	45.	42.	41.	40.	27.	19.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ 3 COMBINED AT	CHD7B2	.49	1	FLOW	307.	300.	296.	282.	274.	271.	199.	152.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	CRET8	.00	1	FLOW	66.	65.	64.	61.	59.	58.	42.	31.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50

+ DIVERSION TO	DIV8A	.00	1	FLOW	66.	65.	64.	61.	59.	58.	42.	31.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	DCRET8	.00	1	FLOW	0.	0.	0.	0.	0.	0.	0.	0.
				TIME	.00	.00	.00	.00	.00	.00	.00	.00
+ HYDROGRAPH AT	RET9	.00	1	FLOW	990.	966.	954.	906.	882.	870.	630.	476.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 2 COMBINED AT	CRET9	.00	1	FLOW	990.	966.	954.	906.	882.	870.	630.	476.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ DIVERSION TO	DIV9A	.00	1	FLOW	255.	253.	252.	249.	247.	246.	226.	212.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	DCCUL9	.00	1	FLOW	735.	713.	701.	657.	634.	623.	404.	264.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	RET10	.00	1	FLOW	19.	18.	18.	17.	17.	16.	11.	8.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.50
+ 2 COMBINED AT	CRET10	.00	1	FLOW	753.	730.	719.	673.	650.	639.	415.	272.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ DIVERSION TO	DIV10A	.00	1	FLOW	368.	366.	364.	360.	355.	353.	311.	256.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	DCU10A	.00	1	FLOW	385.	364.	354.	313.	295.	286.	104.	16.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	RET11	.00	1	FLOW	285.	283.	282.	277.	275.	274.	253.	240.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
+ HYDROGRAPH AT	RET6	.00	1	FLOW	108.	105.	104.	99.	96.	95.	69.	53.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.58
+ 4 COMBINED AT	DIV11A	.49	1	FLOW	1066.	1034.	1017.	954.	923.	908.	612.	453.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.58
+ 2 COMBINED AT	DUMMY	1.19	1	FLOW	1067.	1035.	1018.	955.	924.	909.	613.	454.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.58
+ HYDROGRAPH AT	RETD1B	.00	1	FLOW	45.	43.	43.	40.	39.	39.	27.	19.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ DIVERSION TO	DCHD1C	.00	1	FLOW	45.	43.	43.	40.	39.	39.	27.	19.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	DHD1C	.00	1	FLOW	0.	0.	0.	0.	0.	0.	0.	0.
				TIME	.00	.00	.00	.00	.00	.00	.00	.00
+ HYDROGRAPH AT	RETD2B	.00	1	FLOW	91.	88.	87.	82.	80.	79.	55.	41.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ 2 COMBINED AT	CHD02C	.00	1	FLOW	91.	88.	87.	82.	80.	79.	55.	41.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ DIVERSION TO	DCHD2C	.00	1	FLOW	59.	57.	57.	53.	52.	51.	36.	26.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	DHD2C	.00	1	FLOW	32.	31.	30.	29.	28.	28.	19.	14.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	RETD4B	.00	1	FLOW	61.	60.	59.	56.	54.	53.	38.	28.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 2 COMBINED AT	CHD04C	.00	1	FLOW	93.	90.	89.	84.	82.	81.	57.	42.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ DIVERSION TO	DCHD4C	.00	1	FLOW	84.	82.	81.	76.	74.	73.	51.	38.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	DHD4C	.00	1	FLOW	9.	9.	8.	8.	8.	8.	5.	4.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ DIVERSION TO	DCHD5C	.00	1	FLOW	8.	8.	7.	7.	7.	7.	5.	3.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	DHD5C	.00	1	FLOW	1.	1.	1.	1.	1.	1.	1.	0.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	RETD6B	.00	1	FLOW	215.	210.	207.	197.	192.	189.	138.	106.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.58
+ 2 COMBINED AT	CHD06C	.00	1	FLOW	216.	211.	208.	198.	193.	190.	139.	106.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.58
+ DIVERSION TO	DCHD6C	.00	1	FLOW	216.	211.	208.	198.	193.	190.	139.	106.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.58
+ HYDROGRAPH AT	DHD6C	.00	1	FLOW	0.	0.	0.	0.	0.	0.	0.	0.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 2 COMBINED AT	DUMMY	1.19	1	FLOW	1067.	1035.	1019.	955.	925.	909.	613.	454.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.58
+ HYDROGRAPH AT	RETC5C	.00	1	FLOW	8.	8.	7.	7.	7.	7.	5.	3.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	95-7B	.01	1	FLOW	15.	14.	14.	13.	13.	13.	9.	7.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50

2 COMBINED AT

+	C95-7B	.01	1	FLOW	22.	22.	22.	20.	20.	20.	14.	11.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
+	RETC6C	.00	1	FLOW	216.	211.	208.	198.	193.	190.	139.	106.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.58
HYDROGRAPH AT												
+	95-8B	.00	1	FLOW	6.	6.	6.	6.	6.	6.	4.	3.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
2 COMBINED AT												
+	C95-8B	.00	1	FLOW	222.	217.	214.	204.	198.	196.	143.	109.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
+	SKY2	.01	1	FLOW	16.	15.	15.	14.	14.	14.	11.	9.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
+	EMLA1A	.01	1	FLOW	27.	26.	26.	25.	24.	24.	18.	14.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
+	TP1	.00	1	FLOW	2.	2.	2.	2.	2.	2.	1.	1.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
5 COMBINED AT												
+	BR-TP	.03	1	FLOW	289.	282.	279.	265.	258.	255.	187.	143.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
+	ES2	.05	1	FLOW	84.	82.	81.	77.	75.	74.	55.	43.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT												
+	BRENT1	.00	1	FLOW	4.	4.	4.	4.	4.	4.	3.	2.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
+	EGC3	.02	1	FLOW	44.	43.	42.	40.	39.	39.	29.	23.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
+	HORSE5	.00	1	FLOW	11.	11.	11.	11.	10.	10.	8.	6.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
5 COMBINED AT												
+	CP44	.11	1	FLOW	425.	415.	410.	390.	380.	375.	276.	212.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
DIVERSION TO												
+	BRENT	.11	1	FLOW	373.	363.	358.	338.	328.	323.	224.	160.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
+	SOUTH	.11	1	FLOW	52.	52.	52.	52.	52.	52.	52.	52.
				TIME	3.33	3.33	3.33	3.33	3.42	3.42	3.42	3.50
HYDROGRAPH AT												
+	SKY1	.01	1	FLOW	16.	16.	16.	15.	15.	15.	11.	9.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
+	HORSE4	.00	1	FLOW	9.	8.	8.	8.	8.	8.	6.	5.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
+	EGC1	.01	1	FLOW	17.	16.	16.	15.	15.	15.	11.	9.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
+	EGC2	.01	1	FLOW	24.	24.	24.	22.	22.	22.	16.	13.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
5 COMBINED AT												
+	DUMMY	.14	1	FLOW	118.	117.	116.	113.	112.	111.	97.	87.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
+	95-9B	.01	1	FLOW	22.	21.	21.	20.	19.	19.	14.	10.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT												
+	CP45	.15	1	FLOW	138.	136.	135.	131.	129.	128.	109.	97.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
DIVERSION TO												
+	RACEL	.15	1	FLOW	101.	101.	101.	101.	101.	101.	101.	97.
				TIME	3.33	3.33	3.33	3.42	3.42	3.42	3.50	3.50
HYDROGRAPH AT												
+	HORSE	.15	1	FLOW	37.	35.	34.	30.	28.	27.	8.	0.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	.00
HYDROGRAPH AT												
+	RETC4C	.00	1	FLOW	84.	82.	81.	76.	74.	73.	51.	38.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
+	SKY3	.01	1	FLOW	12.	12.	12.	12.	11.	11.	9.	7.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT												
+	OFFH	.01	1	FLOW	12.	12.	12.	11.	11.	11.	7.	5.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
3 COMBINED AT												
+	SK-IR	.01	1	FLOW	108.	105.	104.	98.	95.	94.	67.	50.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
+	EML1A	.03	1	FLOW	47.	46.	45.	43.	42.	41.	30.	22.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT												
+	IRON2	.00	1	FLOW	10.	9.	9.	9.	9.	9.	7.	5.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
+	EMLA1B	.02	1	FLOW	43.	42.	41.	39.	38.	38.	28.	22.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
+	TP2	.00	1	FLOW	2.	2.	2.	2.	2.	2.	1.	1.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
5 COMBINED AT												
+	IR-TP	.07	1	FLOW	208.	203.	200.	190.	185.	182.	131.	99.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
+	ES1	.02	1	FLOW	29.	28.	28.	27.	26.	25.	18.	14.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
+	IRON3	.00	1	FLOW	5.	5.	5.	5.	5.	4.	3.	3.

				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 3 COMBINED AT	IR-FT	.09	1	FLOW	242.	236.	233.	221.	215.	212.	153.	115.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ DIVERSION TO	IREAST	.09	1	FLOW	118.	117.	117.	115.	114.	113.	104.	98.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	FTNOR	.09	1	FLOW	124.	119.	116.	106.	101.	99.	49.	17.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ DIVERSION TO	FTNOR	.09	1	FLOW	124.	119.	116.	106.	101.	99.	49.	17.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	FTNOR	.09	1	FLOW	0.	0.	0.	0.	0.	0.	0.	0.
				TIME	.00	.00	.00	.00	.00	.00	.00	.00
+ 4 COMBINED AT	DUMMY	4.46	1	FLOW	1104.	1070.	1053.	985.	953.	937.	621.	454.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.58
+ HYDROGRAPH AT	RETC1C	.00	1	FLOW	45.	43.	43.	40.	39.	39.	27.	19.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	RETC2C	.00	1	FLOW	59.	57.	57.	53.	52.	51.	36.	26.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	OFF9	.04	1	FLOW	54.	53.	52.	49.	47.	47.	32.	23.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ 3 COMBINED AT	COFF9	.04	1	FLOW	150.	146.	144.	136.	132.	130.	90.	65.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	OFFS	.01	1	FLOW	8.	8.	8.	7.	7.	6.	3.	2.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.67	3.67
+ HYDROGRAPH AT	SKY4	.01	1	FLOW	16.	16.	16.	15.	15.	15.	11.	9.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ 3 COMBINED AT	LC-SK	.06	1	FLOW	175.	170.	168.	158.	154.	151.	105.	76.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	EML1B	.07	1	FLOW	120.	117.	116.	110.	107.	106.	76.	57.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	ESCHL1	.02	1	FLOW	29.	28.	27.	26.	25.	24.	15.	10.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	EPRK1	.01	1	FLOW	6.	6.	6.	5.	5.	4.	2.	1.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.75
+ HYDROGRAPH AT	STRT6	.01	1	FLOW	10.	10.	10.	9.	9.	9.	7.	6.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	EML2A	.07	1	FLOW	106.	103.	102.	97.	94.	93.	67.	50.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ 5 COMBINED AT	DUMMY	.18	1	FLOW	272.	264.	261.	247.	240.	236.	167.	123.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	TP3	.01	1	FLOW	11.	10.	10.	10.	10.	10.	7.	6.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
+ HYDROGRAPH AT	TP4A	.00	1	FLOW	5.	5.	5.	5.	5.	5.	4.	3.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	LOG1	.01	1	FLOW	15.	15.	15.	14.	14.	13.	10.	8.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 5 COMBINED AT	LC-TP	.26	1	FLOW	475.	462.	456.	432.	419.	413.	291.	215.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	EL1	.12	1	FLOW	110.	106.	104.	96.	93.	91.	55.	35.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.67	3.67
+ HYDROGRAPH AT	LOG2	.00	1	FLOW	9.	9.	9.	9.	8.	8.	6.	5.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	FORT1	.01	1	FLOW	14.	14.	14.	13.	13.	13.	10.	8.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
+ HYDROGRAPH AT	FTNOR	.00	1	FLOW	124.	119.	116.	106.	101.	99.	49.	17.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 5 COMBINED AT	FT-LC	.39	1	FLOW	718.	697.	686.	643.	622.	612.	403.	276.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ DIVERSION TO	OHARE	.39	1	FLOW	49.	47.	46.	41.	39.	37.	14.	0.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	.00
+ HYDROGRAPH AT	RFTLC	.39	1	FLOW	669.	650.	640.	602.	584.	574.	389.	276.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ DIVERSION TO	LOGCAB	.39	1	FLOW	193.	187.	184.	172.	167.	164.	107.	73.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	R2FTLC	.39	1	FLOW	476.	463.	456.	430.	417.	410.	282.	203.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	EML2B	.04	1	FLOW	66.	65.	64.	61.	59.	58.	42.	31.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	TP4B	.00	1	FLOW	7.	7.	7.	7.	7.	7.	5.	4.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50

+ HYDROGRAPH AT	EML3	.06	1	FLOW	90.	88.	87.	82.	80.	79.	56.	42.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	STRT7	.00	1	FLOW	8.	8.	8.	8.	8.	8.	6.	5.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 5 COMBINED AT	DUMMY	.50	1	FLOW	645.	627.	619.	584.	567.	558.	388.	283.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	EML4	.07	1	FLOW	112.	109.	108.	102.	100.	98.	70.	52.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	ENVE2	.01	1	FLOW	11.	11.	11.	10.	9.	9.	5.	3.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.67
+ HYDROGRAPH AT	FORT2	.01	1	FLOW	14.	13.	13.	13.	12.	12.	9.	8.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
+ 4 COMBINED AT	FT-MO	.59	1	FLOW	781.	760.	750.	708.	687.	677.	472.	345.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	OFFC	.13	1	FLOW	80.	77.	75.	69.	66.	64.	36.	20.
				TIME	3.75	3.75	3.75	3.75	3.75	3.75	3.83	3.83
+ HYDROGRAPH AT	95-3	.01	1	FLOW	15.	14.	14.	13.	13.	13.	9.	6.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ HYDROGRAPH AT	OFFB	.13	1	FLOW	73.	70.	68.	63.	60.	58.	32.	18.
				TIME	3.83	3.83	3.83	3.83	3.83	3.83	3.92	3.92
+ HYDROGRAPH AT	95-2	.00	1	FLOW	7.	7.	7.	6.	6.	6.	4.	3.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 4 COMBINED AT	DUMMY	.28	1	FLOW	158.	152.	149.	137.	131.	128.	72.	40.
				TIME	3.75	3.75	3.75	3.83	3.83	3.83	3.83	3.83
+ HYDROGRAPH AT	OFFA	.02	1	FLOW	17.	16.	16.	14.	14.	13.	7.	4.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ HYDROGRAPH AT	95-1	.00	1	FLOW	7.	7.	7.	7.	6.	6.	4.	3.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
+ 3 COMBINED AT	CP27B	.31	1	FLOW	173.	166.	163.	149.	142.	139.	77.	44.
				TIME	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.83
+ HYDROGRAPH AT	OFFZ	.05	1	FLOW	35.	34.	33.	30.	29.	28.	15.	8.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.75
+ 2 COMBINED AT	COFFZ	.36	1	FLOW	206.	198.	194.	178.	170.	166.	92.	52.
				TIME	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.83
+ HYDROGRAPH AT	OFFDA	.64	1	FLOW	357.	343.	337.	310.	296.	290.	166.	97.
				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.08
+ ROUTED TO	ROFFDA	.64	1	FLOW	330.	317.	311.	286.	274.	268.	153.	90.
				TIME	4.42	4.42	4.42	4.42	4.42	4.42	4.42	4.50
+ HYDROGRAPH AT	OFFDB	.49	1	FLOW	235.	226.	221.	202.	193.	189.	104.	59.
				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.08
+ 2 COMBINED AT	CP27A	1.14	1	FLOW	492.	473.	463.	426.	408.	398.	227.	131.
				TIME	4.25	4.25	4.25	4.33	4.33	4.33	4.33	4.42
+ HYDROGRAPH AT	DCKC7	.00	1	FLOW	1816.	1763.	1736.	1630.	1578.	1551.	1038.	737.
				TIME	4.08	4.08	4.08	4.08	4.08	4.08	4.08	3.58
+ HYDROGRAPH AT	OFFX	.02	1	FLOW	13.	12.	12.	11.	10.	10.	6.	3.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
+ HYDROGRAPH AT	OFFT	.02	1	FLOW	12.	12.	11.	10.	10.	10.	5.	3.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
+ 4 COMBINED AT	EPT16	1.17	1	FLOW	2269.	2197.	2162.	2019.	1949.	1914.	1239.	843.
				TIME	4.08	4.08	4.08	4.08	4.08	4.08	4.17	4.50
+ HYDROGRAPH AT	SHEEP2	.06	1	FLOW	43.	41.	40.	37.	35.	34.	19.	10.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.75
+ HYDROGRAPH AT	SHEEP3	.01	1	FLOW	10.	9.	9.	8.	8.	8.	4.	2.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
+ HYDROGRAPH AT	EMLA2	.14	1	FLOW	184.	180.	177.	168.	163.	161.	115.	86.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
+ 4 COMBINED AT	DUMMY	1.39	1	FLOW	2352.	2278.	2241.	2094.	2022.	1985.	1285.	870.
				TIME	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08
+ HYDROGRAPH AT	ENVE1	.03	1	FLOW	24.	23.	22.	20.	19.	19.	10.	6.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.75
+ HYDROGRAPH AT	HUAL3	.00	1	FLOW	6.	6.	6.	6.	6.	6.	4.	4.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
+ 4 COMBINED AT	SH-MO	1.78	1	FLOW	2492.	2413.	2373.	2217.	2139.	2101.	1354.	912.
				TIME	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08
+ 2 COMBINED AT	CP43	2.38	1	FLOW	3072.	2981.	2935.	2753.	2663.	2618.	1754.	1239.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58

1

SUMMARY OF KINEMATIC WAVE - MUSKINGUM-CUNGE ROUTING
(FLOW IS DIRECT RUNOFF WITHOUT BASE FLOW)
INTERPOLATED TO
COMPUTATION INTERVAL

ISTAQ	ELEMENT	DT	PEAK	TIME TO PEAK	VOLUME	DT	PEAK	TIME TO PEAK	VOLUME
		(MIN)	(CFS)	(MIN)	(IN)	(MIN)	(CFS)	(MIN)	(IN)
FOR PLAN = 1 RATIO= 1.00									
	RCD1C MANE	5.00	5.67	221.08	.16	5.00	5.16	220.00	.16

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3238E+00 EXCESS= .0000E+00 OUTFLOW= .3523E+00 BASIN STORAGE= .1286E-03 PERCENT ERROR= -8.8

FOR PLAN = 1 RATIO= .98									
	RCD1C MANE	5.00	5.11	219.85	.15	5.00	5.11	220.00	.15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3150E+00 EXCESS= .0000E+00 OUTFLOW= .3298E+00 BASIN STORAGE= .1227E-03 PERCENT ERROR= -4.7

FOR PLAN = 1 RATIO= .97									
	RCD1C MANE	5.00	5.16	220.26	.15	5.00	5.04	220.00	.15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3106E+00 EXCESS= .0000E+00 OUTFLOW= .3258E+00 BASIN STORAGE= .1231E-03 PERCENT ERROR= -4.9

FOR PLAN = 1 RATIO= .93									
	RCD1C MANE	5.00	4.93	223.66	.14	5.00	4.64	225.00	.14

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2932E+00 EXCESS= .0000E+00 OUTFLOW= .3030E+00 BASIN STORAGE= .1264E-03 PERCENT ERROR= -3.4

FOR PLAN = 1 RATIO= .91									
	RCD1C MANE	5.00	4.66	225.48	.13	5.00	4.59	225.00	.13

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2845E+00 EXCESS= .0000E+00 OUTFLOW= .2939E+00 BASIN STORAGE= .1102E-03 PERCENT ERROR= -3.4

FOR PLAN = 1 RATIO= .90									
	RCD1C MANE	5.00	4.29	226.36	.13	5.00	4.22	225.00	.13

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2801E+00 EXCESS= .0000E+00 OUTFLOW= .2856E+00 BASIN STORAGE= .1289E-03 PERCENT ERROR= -2.0

FOR PLAN = 1 RATIO= .70									
	RCD1C MANE	4.95	3.43	226.03	.09	5.00	3.07	225.00	.09

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1951E+00 EXCESS= .0000E+00 OUTFLOW= .2013E+00 BASIN STORAGE= .1055E-03 PERCENT ERROR= -3.2

FOR PLAN = 1 RATIO= .57									
	RCD1C MANE	5.00	2.44	230.11	.07	5.00	2.42	230.00	.07

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1422E+00 EXCESS= .0000E+00 OUTFLOW= .1470E+00 BASIN STORAGE= .1296E-03 PERCENT ERROR= -3.5

*** NORMAL END OF HEC-1 ***

Conceptual Flood Control Facility Hydraulic Computations
(*Revised Fort Apache Road Facilities*)

Faciltiy P10E
Worksheet for Circular Channel

Project Description	
Worksheet	Facility P10E
Flow Element	Circular Channel
Method	Manning's Formula
Solve For	Full Flow Diameter

Input Data		
Mannings Coefficient	0.013	
Channel Slope	0.50	%
Discharge	124.00	cfs

Results		
Depth	4.31	ft
Diameter	51.7	in
Flow Area	14.6	ft²
Wetted Perimeter	0.00	ft
Top Width	0.00	ft
Critical Depth	3.31	ft
Percent Full	100.0	%
Critical Slope	0.57	%
Velocity	8.50	ft/s
Velocity Head	1.12	ft
Specific Energy	5.43	ft
Froude Number	0.00	
Maximum Discharge	133.39	cfs
Discharge Full	124.00	cfs
Slope Full	0.50	%
Flow Type	N/A	

Faciltiy P11E
Worksheet for Circular Channel

Project Description	
Worksheet	Facility P11E
Flow Element	Circular Channel
Method	Manning's Formula
Solve For	Full Flow Diameter

Input Data		
Mannings Coefficient	0.013	
Channel Slope	0.50	%
Discharge	152.00	cfs

Results		
Depth	4.65	ft
Diameter	55.8	in
Flow Area	17.0	ft²
Wetted Perimeter	0.00	ft
Top Width	0.00	ft
Critical Depth	3.59	ft
Percent Full	100.0	%
Critical Slope	0.56	%
Velocity	8.94	ft/s
Velocity Head	1.24	ft
Specific Energy	5.89	ft
Froude Number	0.00	
Maximum Discharge	163.51	cfs
Discharge Full	152.00	cfs
Slope Full	0.50	%
Flow Type	N/A	

Faciltiy P12E
Worksheet for Circular Channel

Project Description	
Worksheet	Facility P12E
Flow Element	Circular Channel
Method	Manning's Formula
Solve For	Full Flow Diameter

Input Data		
Mannings Coefficient	0.013	
Channel Slope	0.50	%
Discharge	140.00	cfs

Results		
Depth	4.51	ft
Diameter	54.1	in
Flow Area	16.0	ft²
Wetted Perimeter	0.00	ft
Top Width	0.00	ft
Critical Depth	3.48	ft
Percent Full	100.0	%
Critical Slope	0.57	%
Velocity	8.76	ft/s
Velocity Head	1.19	ft
Specific Energy	5.70	ft
Froude Number	0.00	
Maximum Discharge	150.60	cfs
Discharge Full	140.00	cfs
Slope Full	0.50	%
Flow Type	N/A	

Faciltiy P13E
Worksheet for Circular Channel

Project Description	
Worksheet	Facility P13E
Flow Element	Circular Channel
Method	Manning's Formula
Solve For	Full Flow Diameter

Input Data		
Mannings Coefficient	0.013	
Channel Slope	0.50	%
Discharge	167.00	cfs

Results		
Depth	4.82	ft
Diameter	57.8	in
Flow Area	18.2	ft²
Wetted Perimeter	0.00	ft
Top Width	0.00	ft
Critical Depth	3.73	ft
Percent Full	100.0	%
Critical Slope	0.56	%
Velocity	9.15	ft/s
Velocity Head	1.30	ft
Specific Energy	6.12	ft
Froude Number	0.00	
Maximum Discharge	179.64	cfs
Discharge Full	167.00	cfs
Slope Full	0.50	%
Flow Type	N/A	

Facility P23E
Worksheet for Rectangular Channel

Project Description	
Worksheet	Facility P23E
Flow Element	Rectangular Channel
Method	Manning's Formula
Solve For	Channel Depth

Input Data		
Mannings Coefficient	0.013	
Channel Slope	0.50	%
Bottom Width	7.00	ft
Discharge	463.00	cfs

Results		
Depth	5.04	ft
Flow Area	35.3	ft²
Wetted Perimeter	17.09	ft
Top Width	7.00	ft
Critical Depth	5.14	ft
Critical Slope	0.48	%
Velocity	13.11	ft/s
Velocity Head	2.67	ft
Specific Energy	7.72	ft
Froude Number	1.03	
Flow Type	Supercritical	

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Facility P24E
Worksheet for Rectangular Channel

Project Description	
Worksheet	Facility P24E
Flow Element	Rectangular Channel
Method	Manning's Formula
Solve For	Channel Depth

Input Data		
Mannings Coefficient	0.013	
Channel Slope	0.50	%
Bottom Width	8.00	ft
Discharge	507.00	cfs

Results		
Depth	4.69	ft
Flow Area	37.5	ft²
Wetted Perimeter	17.39	ft
Top Width	8.00	ft
Critical Depth	5.00	ft
Critical Slope	0.42	%
Velocity	13.50	ft/s
Velocity Head	2.83	ft
Specific Energy	7.53	ft
Froude Number	1.10	
Flow Type	Supercritical	

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Facility P26E
Worksheet for Rectangular Channel

Project Description	
Worksheet	Facility P26E
Flow Element	Rectangular Channel
Method	Manning's Formula
Solve For	Channel Depth

Input Data		
Mannings Coefficient	0.013	
Channel Slope	0.50	%
Bottom Width	9.00	ft
Discharge	641.00	cfs

Results		
Depth	4.97	ft
Flow Area	44.7	ft²
Wetted Perimeter	18.94	ft
Top Width	9.00	ft
Critical Depth	5.40	ft
Critical Slope	0.40	%
Velocity	14.33	ft/s
Velocity Head	3.19	ft
Specific Energy	8.16	ft
Froude Number	1.13	
Flow Type	Supercritical	

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Facility P27E
Worksheet for Rectangular Channel

Project Description	
Worksheet	Facility P27E
Flow Element	Rectangular Channel
Method	Manning's Formula
Solve For	Channel Depth

Input Data		
Mannings Coefficient	0.013	
Channel Slope	0.50	%
Bottom Width	10.00	ft
Discharge	703.00	cfs

Results		
Depth	4.79	ft
Flow Area	47.9	ft²
Wetted Perimeter	19.58	ft
Top Width	10.00	ft
Critical Depth	5.36	ft
Critical Slope	0.37	%
Velocity	14.67	ft/s
Velocity Head	3.35	ft
Specific Energy	8.14	ft
Froude Number	1.18	
Flow Type	Supercritical	

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Facility P28E
Worksheet for Rectangular Channel

Project Description	
Worksheet	Facility P28E
Flow Element	Rectangular Channel
Method	Manning's Formula
Solve For	Channel Depth

Input Data		
Mannings Coefficient	0.013	
Channel Slope	0.50	%
Bottom Width	10.00	ft
Discharge	760.00	cfs

Results		
Depth	5.08	ft
Flow Area	50.8	ft²
Wetted Perimeter	20.16	ft
Top Width	10.00	ft
Critical Depth	5.64	ft
Critical Slope	0.38	%
Velocity	14.97	ft/s
Velocity Head	3.48	ft
Specific Energy	8.56	ft
Froude Number	1.17	
Flow Type	Supercritical	

Street Flow Capacities Exhibit

(*Referenced from Addendum No. 2*)

Street Flow Summary - Kyle Canyon West

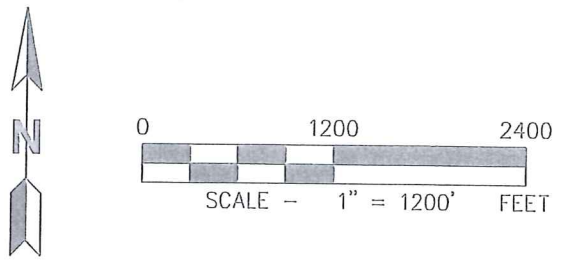
Street Section	Q (cfs)	Slope (%)	Depth (ft)	Velocity (ft/s)	D x V
WX1*	22	3.6	0.50	5.81	2.9
WX2	82	2.5	0.63	5.89	3.7
WX3	16	0.5	0.50	2.17	1.1
WX4	30	1.7	0.50	3.99	2.0
WX5	43	3.5	0.50	5.73	2.9
WX6	45	3.6	0.50	5.81	2.9
WX7	17	0.5	0.50	2.16	1.1
WX8	51	4.5	0.50	6.49	3.2
WX9	95	3.4	0.63	6.87	4.3
WX10	96	3.5	0.63	6.97	4.4
WX11	36	0.5	0.63	2.64	1.7
WX12	37	2.5	0.50	4.84	2.4
WX13*	8	0.5	0.50	2.17	1.1
WX14	35	2.2	0.50	4.54	2.3
WX15	30	1.6	0.50	3.87	1.9

* - Half Street Section

Street Flow Summary - Kyle Canyon East

Street Section	Q (cfs)	Slope (%)	Depth (ft)	Velocity (ft/s)	D x V
EX1*	21	3.2	0.50	5.48	2.7
EX2	32	1.8	0.50	4.11	2.1
EX3	17	0.5	0.50	2.16	1.1
EX4	39	2.9	0.50	5.22	2.6
EX5*	20	3.1	0.50	5.39	2.7
EX6	17	0.5	0.50	2.16	1.1
EX7	42	3.1	0.50	5.39	2.7
EX8	40	3.0	0.50	5.31	2.7
EX9*	8	0.5	0.50	2.17	1.1
EX10	30	1.6	0.50	3.87	1.9
EX11*	18	0.5	0.63	2.64	1.7
EX12*	8	0.5	0.50	2.16	1.1
EX13	38	2.6	0.50	4.94	2.5

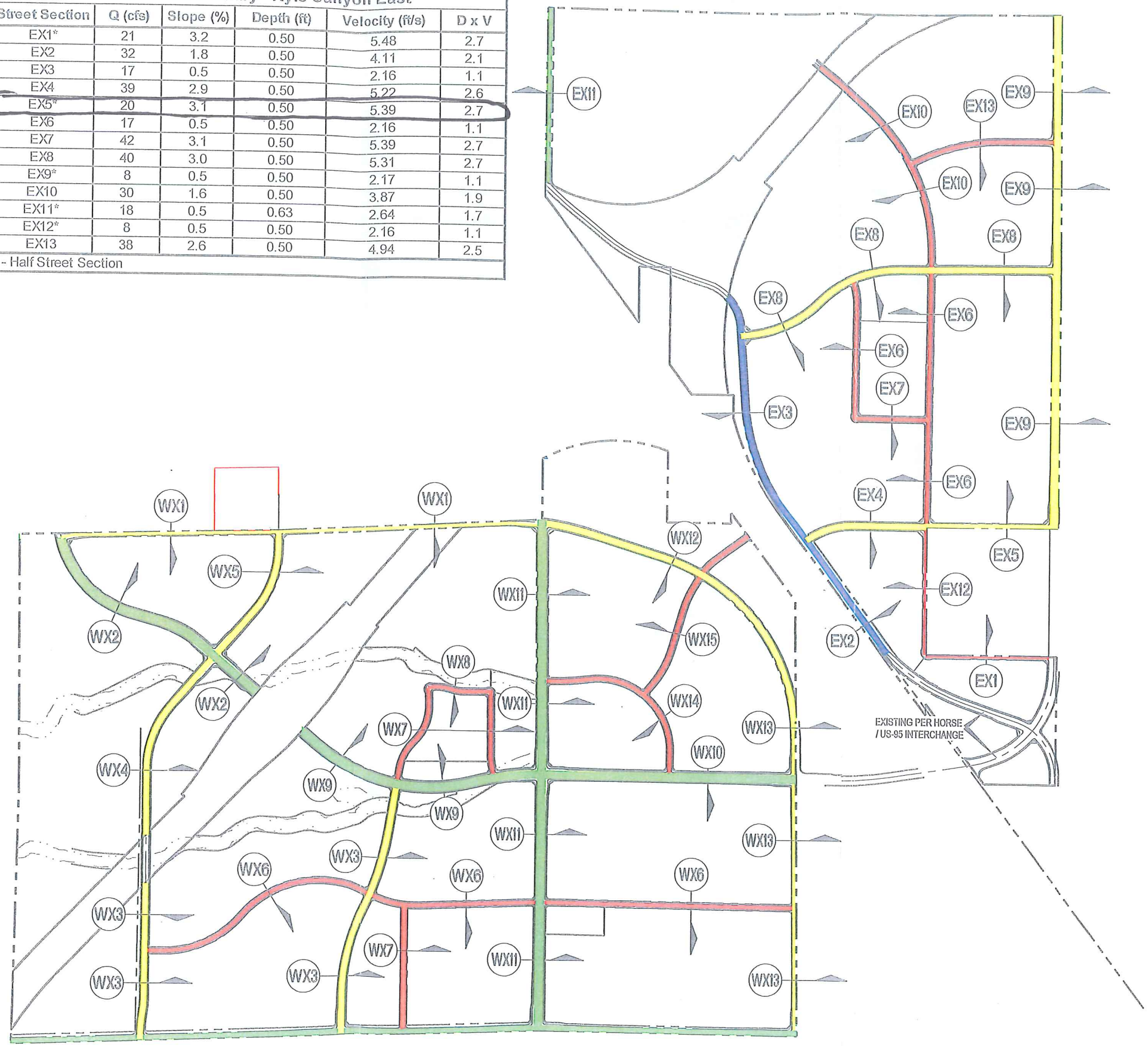
* - Half Street Section



LEGEND

- 40-FT RIGHT-OF-WAY
- 64-FT RIGHT-OF-WAY
- 70-FT RIGHT-OF-WAY
- 90-FT RIGHT-OF-WAY

NOTE THAT ROADWAYS THAT ARE ONLY PROPOSED AS HALF STREETS BY THIS PROJECT HAVE BEEN IDENTIFIED IN THE ABOVE SUMMARY TABLES..



SLATER HANIFAN GROUP
CONSULTING ENGINEERS & PLANNERS
5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 260-5300 FAX (702) 260-5300

NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.

CARWIN ADVISORS

KYLE CANYON MASTER DRAINAGE STUDY - ADDENDUM NO. 2

STREET FLOW CAPACITY MAP

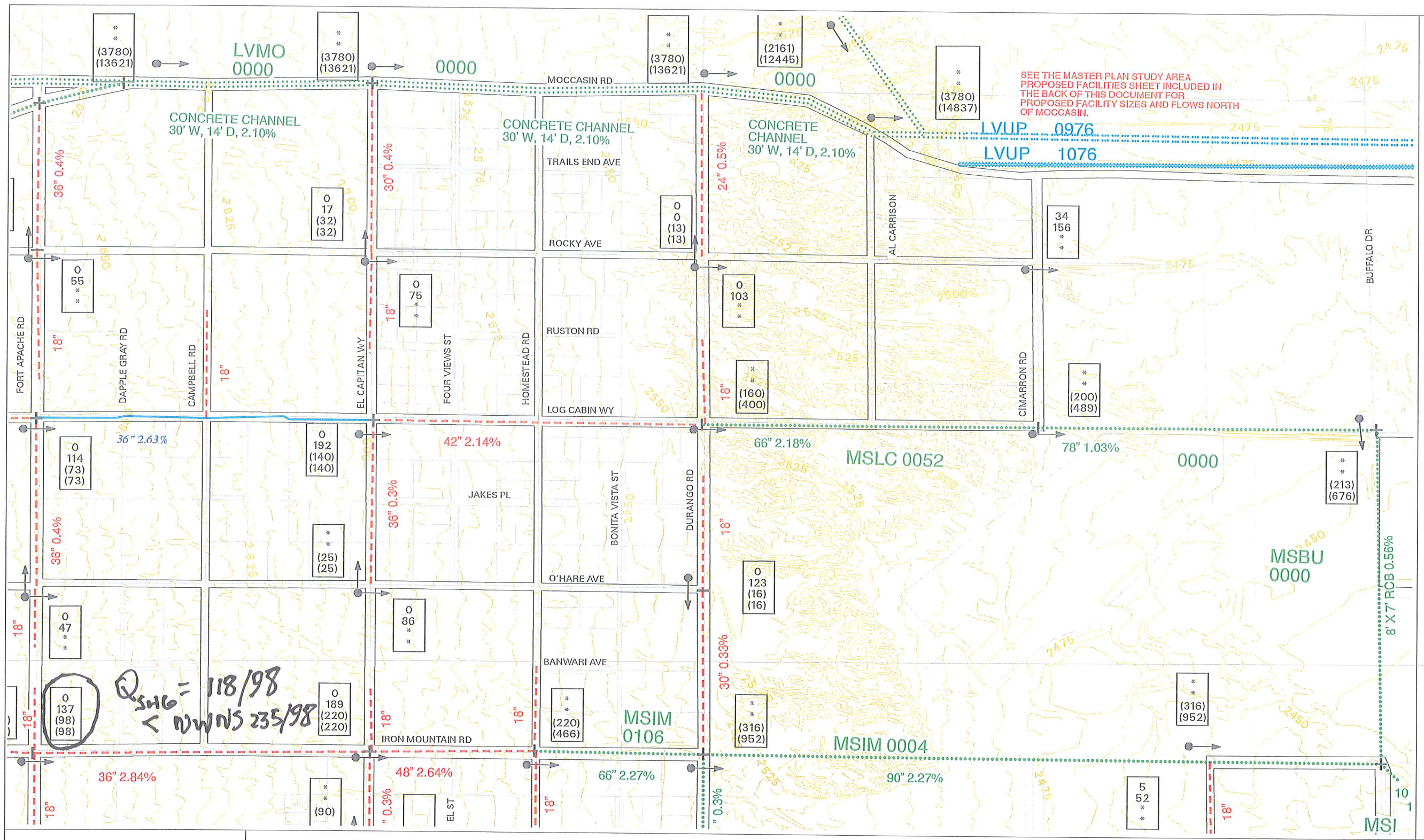
DATE:	09/19/2011
DRAFTER:	SMJ
DESIGNER:	SMJ
CHECKED:	MJF
PROJECT NO.	WCR0902.004

EXHIBIT

SHEET 1 OF 1

j:\wcp0902-004 kc mstr drainage\drainage\conceptual study\figures\street capacity exhibit.dwg 10/9/2011 3:54 PM Kylie Rowbury

Reference Material from CLV Northwest Neighborhood Study
(*Allowable Discharge at Iron Mountain Road*)



FLOW ARROW

250	10-YEAR STREET FLOW
500	100-YEAR STREET FLOW
(300)	10-YEAR FACILITY FLOW
(800)	100-YEAR FACILITY FLOW

(FLOWS IN CFS)

NOTE:

Ultimate drainage conditions are based on future CN values with all flood control facilities in place.
Regional facility identifiers were established based on the methodology used in the "1996 Clark County Regional Flood Control Master Plan Update for the Las Vegas Valley."

NOTE:

All regional facilities proposed in the "1996 Clark County Regional Flood Control Master Plan Update for the Las Vegas Valley" have been resized based on the flows developed in this study. In addition, many of these facilities have been changed from channels to reinforced concrete box culverts.

CITY OF LAS VEGAS NEVADA

NORTHWEST NEIGHBORHOOD STUDY PHASE 2

LEGEND

- EXISTING REGIONAL DETENTION BASINS
- PROPOSED REGIONAL DETENTION BASINS (Not Included in 1996 MPU)
- EXISTING REGIONAL BRIDGES
- PROPOSED REGIONAL BRIDGES
- PROPOSED REGIONAL BRIDGES (Not Included in 1996 MPU)
- EXISTING LOCAL BRIDGES
- PROPOSED REGIONAL CULVERT
- EXISTING REGIONAL CULVERT
- EXISTING LOCAL CULVERT
- EXISTING REGIONAL PIPELINE
- PROPOSED REGIONAL PIPELINE
- PROPOSED REGIONAL PIPELINE (Not Included in 1996 MPU)
- EXISTING LOCAL PIPELINE
- PROPOSED LOCAL PIPELINE
- EXISTING REGIONAL CHANNEL
- PROPOSED REGIONAL CHANNEL
- EXISTING LOCAL CHANNEL
- PROPOSED LOCAL CHANNEL
- PROPOSED REGIONAL CHANNEL (Not Included in 1996 MPU)
- EXISTING REGIONAL DIKE/LEVEE
- PROPOSED REGIONAL DIKE/LEVEE
- PROPOSED REGIONAL DIKE/LEVEE (Not Included in 1996 MPU)
- PROPOSED LOCAL DIKE/LEVEE

FIGURE F-3

FUTURE DRAINAGE CONDITIONS

PBSJ
ENGINEERING PLANNING GIS SURVEYING CONSTRUCTION SERVICES
301 North Green Valley Parkway, Suite 100
Henderson, Nevada 89014-6139
Phone: 702/263-7275
Fax: 702/263-7200

F7/NW/F3.MAP

APPENDIX F

Response to Comment No. 13

Existing BLM Right-of-Way Grants

21

Form 2800-14
(August 1985)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
RIGHT-OF-WAY GRANT/TEMPORARY USE PERMIT

| Issuing Office
| Las Vegas
| Field Office
| Serial # N-78142

1. A (right-of-way) (~~permit~~) is hereby granted pursuant to:

a. ☒ Title V of the Federal Land Policy and Management Act of October 21, 1976 (90Stat. 2776; 43 U.S.C. 1761);

b. ☐ Section 28 of the Mineral Leasing Act of 1920, as amended (30 U.S.C. 185);

c. ☐ Other (describe)_____.

2. Nature of Interest:

a. By this instrument, the holder, the City of Las Vegas, receives a right to construct, operate, maintain and terminate a roadway, sanitary sewer, and drainages within public lands (or Federal land for MLA Rights-of-Way) described as follows:

Mount Diablo Meridian, Nevada
T. 18 S., R. 60 E.,
sec. 31, SE¼SE ¼SE¼SE¼.
sec. 32, S½S½S½S½S½.
sec. 33, S½S½S½SW¼.
T. 19 S., R. 60 E.,
sec. 05, N½N½N½NW¼, together with a spandrel with a radius of 54 feet, excepting therefrom the west 50'.

(as shown and more particularly described in EXHIBIT A, attached hereto an made a part thereof)

A map showing the location of the right-of-way is on file with the Bureau of Land Management, Las Vegas Field Office (N-78142).

b. The right-of-way area granted herein is of widths of 50.0 and 100.0 feet, with spandrel, 8,017.92 feet long and contains 12.11 acres, more or less. If a site type facility, the facility contains NA acres.

c. This instrument shall ~~terminate on~~ be granted in perpetuity ~~years from its effective date~~ unless, prior thereto, it is relinquished, abandoned, terminated, or modified pursuant to the terms and conditions of this instrument or of any applicable Federal law or regulation.

d. This instrument ☐ may ☐ may not be renewed. If renewed, the right-of-way or permit shall be subject to the regulations existing at the time of renewal and any other terms and conditions that the authorized officer deems necessary to protect the public interest. NOT APPLICABLE

e. Notwithstanding ~~the expiration of this instrument or any renewal thereof~~, early relinquishment, abandonment, or termination, the provisions of this instrument, to the extent applicable, shall continue in effect and shall be binding on the holder, its successors, or assigns, until they have fully satisfied the obligations and/or liabilities accruing herein before or on account of ~~the expiration, or~~ prior termination of the grant.

3. Rental:

For and in consideration of the rights granted, the holder agrees to pay the Bureau of Land Management fair market value rental as determined by the authorized officer unless specifically exempted from such payment by regulation. Provided, however, that the rental may be adjusted by the authorized officer, whenever necessary, to reflect changes in the fair market rental value as determined by the application of sound business management principles, and so far as practicable and feasible, in accordance with comparable commercial practices.

4. Terms and Conditions:

a. This grant or permit is issued subject to the holder's compliance with all applicable regulations contained in Title 43 Code of Federal Regulations 2800 and 2880.

b. Upon grant termination by the authorized officer, all improvements shall be removed from the public lands within 120 days, or otherwise disposed of as provided in paragraph (4)(d) or as directed by the authorized officer.

c. Each grant issued pursuant to the authority of paragraph (1)(a) for a term of 20 years or more shall, at a minimum, be reviewed by the authorized officer at the end of the 20th year and at regular intervals thereafter not to exceed 10 years. Provided, however, that a right-of-way or permit granted herein may be reviewed at any time deemed necessary by the authorized officer.

d. The stipulations, plans, maps, or designs set forth in Exhibits A and B dated AUG 25 2004, attached hereto, are incorporated into and made a part of this grant instrument as fully and effectively as if they were set forth herein in their entirety.

e. Failure of the holder to comply with applicable law or any provision of this right-of-way grant or permit shall constitute grounds for suspension or termination thereof.

f. The holder shall perform all operations in a good and workmanlike manner so as to ensure protection of the environment and the health and safety of the public.

IN WITNESS WHEREOF, The undersigned agrees to the terms and condition of this right-of-way grant or permit.

(Signature of Holder)	(Signature of Authorized Officer)
Manager, Real Estate & Assets	Assistant Field Manager, Division of Lands
(Title)	(Title)
8-18-04	8/25/04
(Date)	(Date)

AUG 2 5 2004

LOG CABIN RANCH

ACQUISITION OF RIGHT-OF-WAY

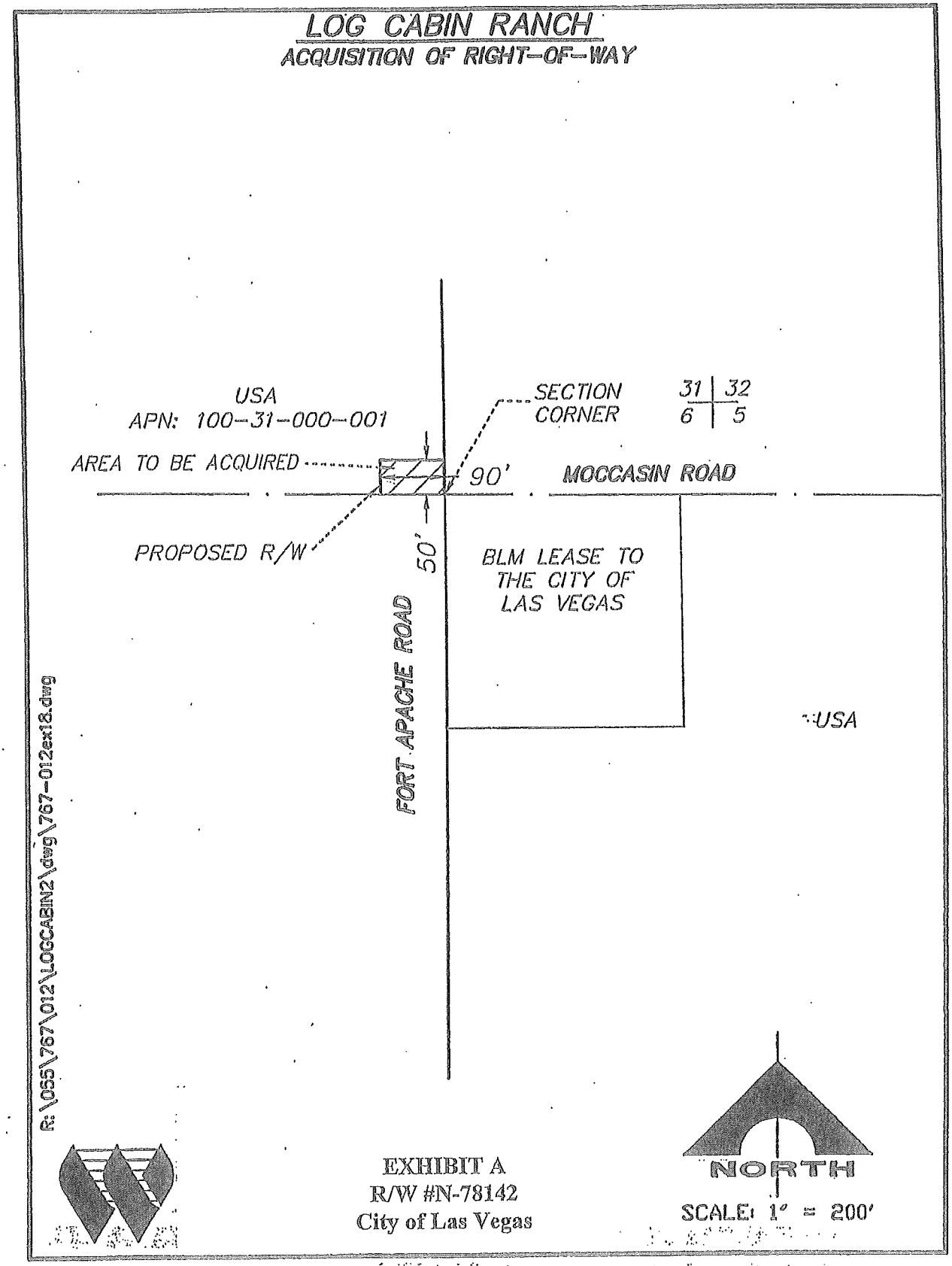


EXHIBIT A
R/W #N-78142
City of Las Vegas

EXHIBIT "A"

EXPLANATION: PROPOSED RIGHT-OF-WAY GRANT FOR ROAD, SANITARY SEWER AND DRAINAGE PURPOSES.
APN: 100-31-000-001

BEING THE SOUTH 50.00 FEET OF THE EAST 90.00 FEET OF SECTION 31, TOWNSHIP 18 SOUTH, RANGE 60 EAST, M.D.M., COUNTY OF CLARK, STATE OF NEVADA.

CONTAINING 450 SQUARE FEET.

END OF DESCRIPTION

DANNY E. HILL, P.L.S.
1555 S. RAINBOW BLVD.
LAS VEGAS, NV. 89146



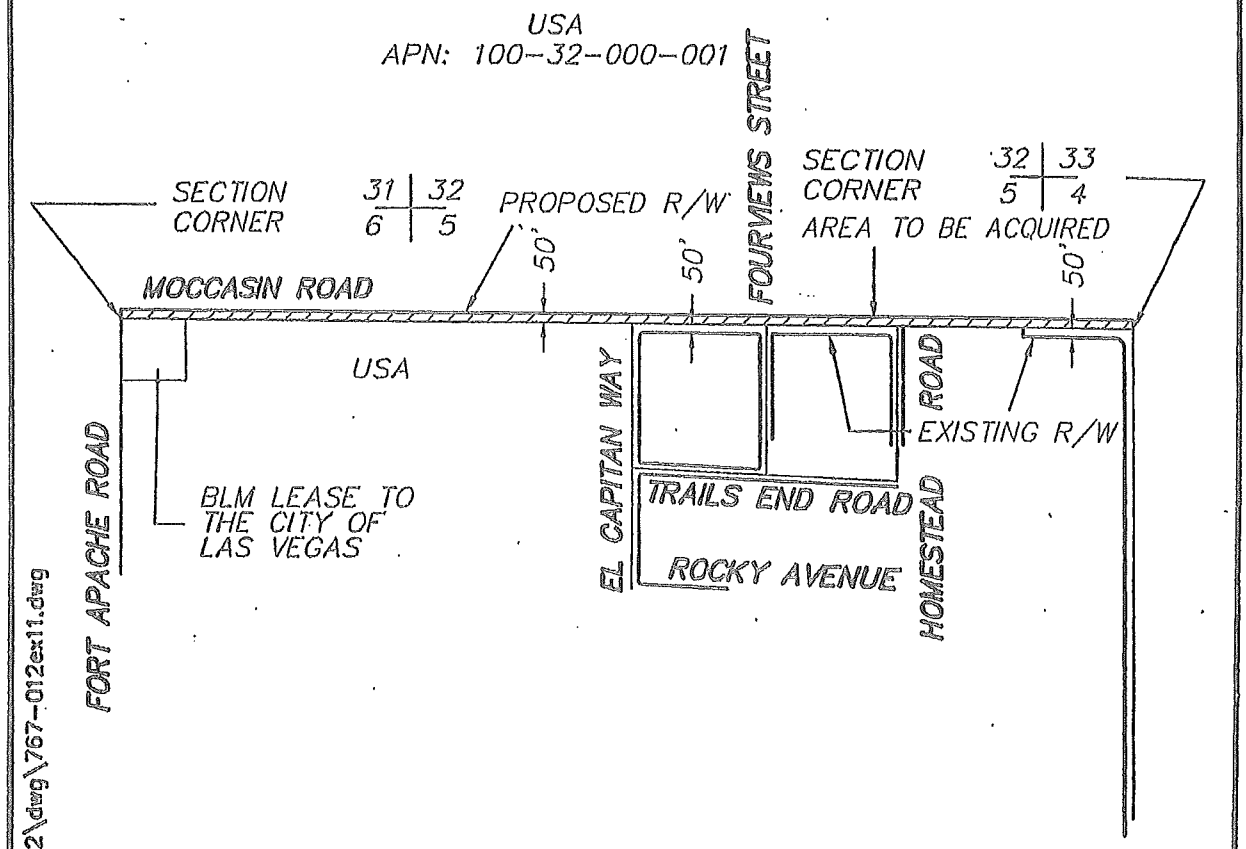
EXP. 6-30-05

19 FEB. 2004

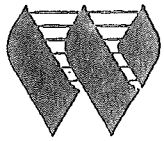
AUG 25 2004

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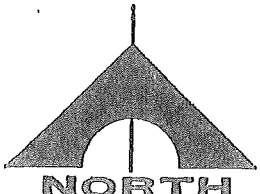
LOG CABIN RANCH
ACQUISITION OF RIGHT-OF-WAY



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G.C. WALLACE, INC.
Engineers/Planners/Surveyors
1555 SOUTH RAINBOW BLVD./LAS VEGAS, NEVADA 89146



SCALE: 1" = 1000'

PAGE 2 OF 2

AUG 25 2004

EXHIBIT "A"

EXPLANATION: PROPOSED RIGHT-OF-WAY GRANT FOR ROAD, SANITARY SEWER AND DRAINAGE PURPOSES.
APN: 100-32-000-001

BEING THE SOUTH 50.00 FEET OF SECTION 32, TOWNSHIP 18 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, COUNTY OF CLARK, STATE OF NEVADA.

CONTAINING 6.1 ACRES.

END OF DESCRIPTION

DANNY E. HILL, P.L.S.
1555 S. RAINBOW BLVD.
LAS VEGAS, NV. 89146



EXP. 6-30-05

19 FEB. 2004

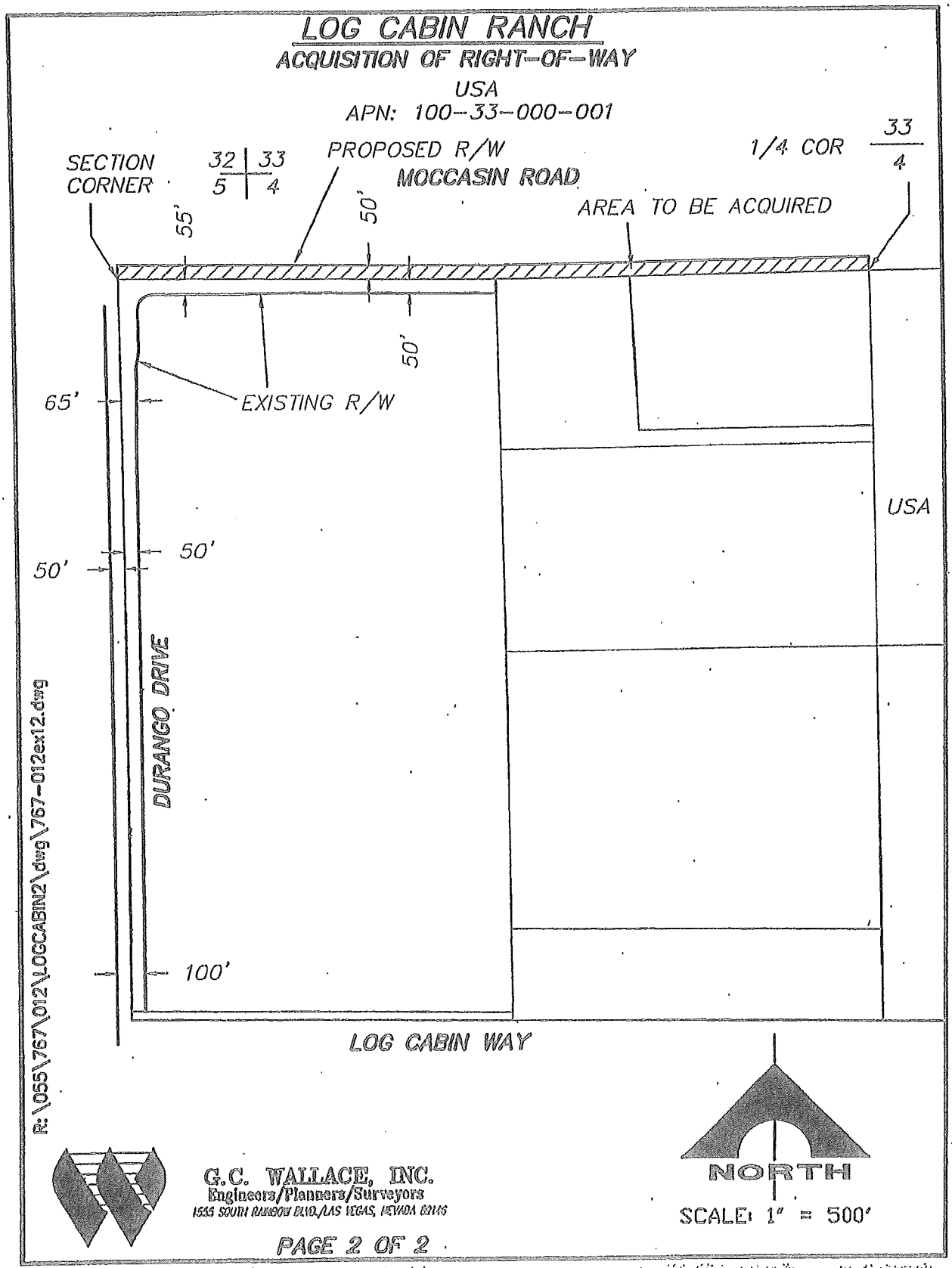
AUG 25 2004

LOG CABIN RANCH

ACQUISITION OF RIGHT-OF-WAY

USA

APN: 100-33-000-001



G.C. WALLACE, INC.
Engineers/Planners/Surveyors
1555 SOUTH RAINBOW BLVD./LAS VEGAS, NEVADA 89146

AUG 25 2004

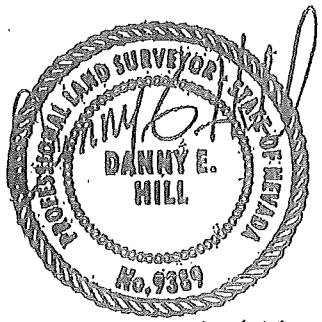
EXHIBIT "A"

EXPLANATION: PROPOSED RIGHT-OF-WAY GRANT FOR ROAD, SANITARY SEWER AND DRAINAGE PURPOSES.
APN: 100-33-000-001

BEING THE SOUTH 50.00 FEET OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 33, TOWNSHIP 18 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, COUNTY OF CLARK, STATE OF NEVADA.

CONTAINING 3.0 ACRES.

END OF DESCRIPTION

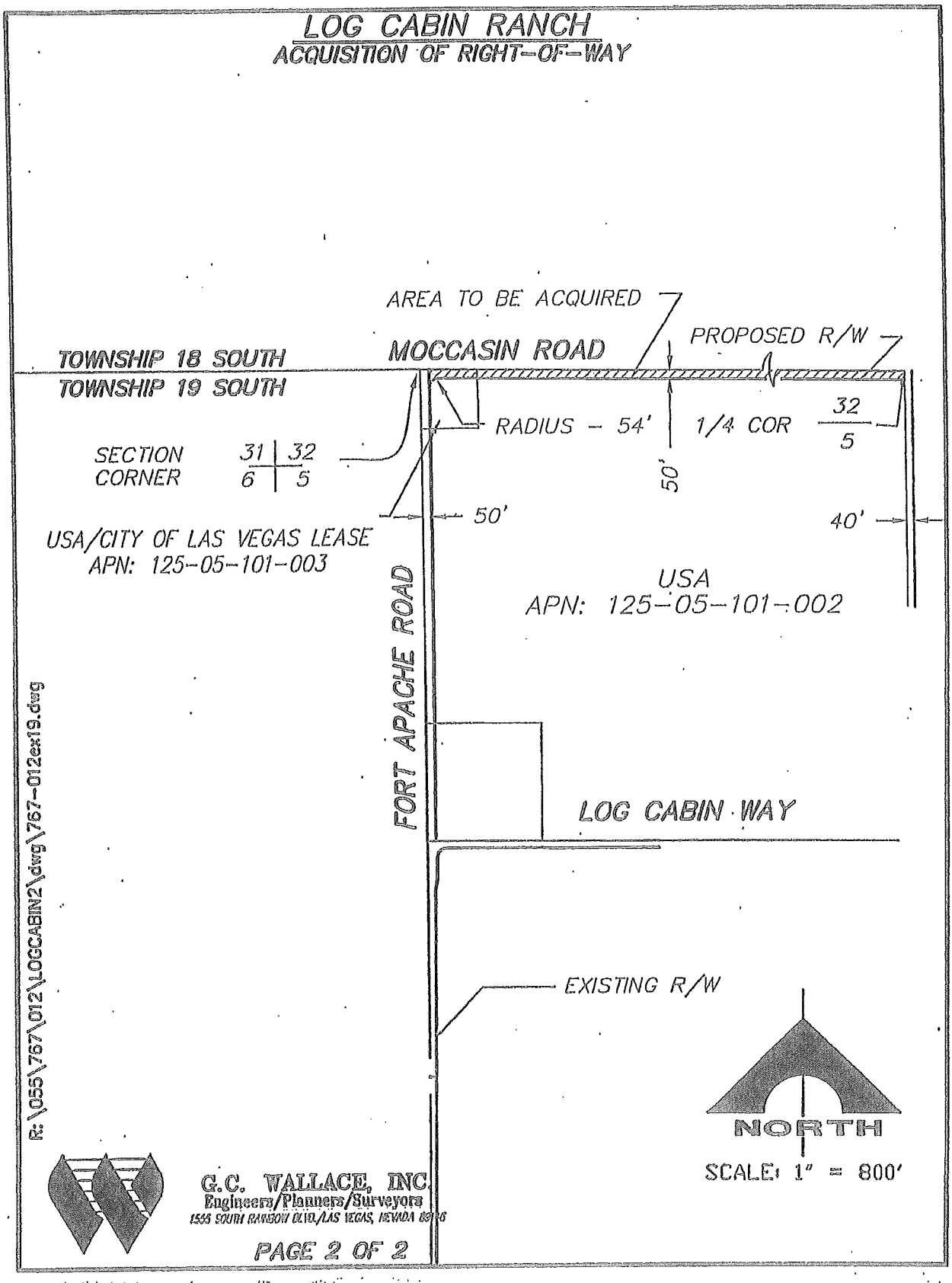


EXP 6-30-05

19 FEB. 2004

DANNY E. HILL, P.L.S.
1555 S. RAINBOW BLVD.
LAS VEGAS, NV. 89146

LOG CABIN RANCH
ACQUISITION OF RIGHT-OF-WAY



G.C. WALLACE, INC.
Engineers/Planners/Surveyors
1555 SOUTH RAINBOW BLVD./LAS VEGAS, NEVADA 89146

EXHIBIT "A"

EXPLANATION: PROPOSED RIGHT-OF-WAY GRANT FOR ROAD, SANITARY SEWER AND DRAINAGE PURPOSES.
APN: 125-05-101-002, 125-05-101-003

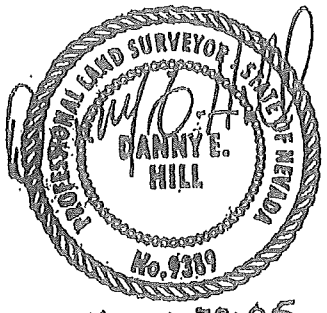
DESCRIPTION: BEING THE NORTH 50.00 FEET OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 5, TOWNSHIP 19 SOUTH, RANGE 60 EAST M.D.M., CITY OF LAS VEGAS, COUNTY OF CLARK, STATE OF NEVADA.

EXCEPTING THEREFROM THE WEST 50.00 FEET OF SAID NORTHWEST QUARTER (NW 1/4).

TOGETHER WITH A SPANDREL AREA BOUNDED AS FOLLOWS: ON THE NORTH BY THE SOUTH LINE OF SAID NORTH 50.00 FEET; ON THE WEST BY THE EAST LINE OF SAID WEST 50.00 FEET; AND ON THE SOUTHEAST BY THE ARC OF A CURVE CONCAVE SOUTHEASTERLY, HAVING A RADIUS OF 54.00 FEET, SAID ARC BEING TANGENT TO SAID SOUTH LINE AND SAID EAST LINE.

CONTAINING 3.0 ACRES.

END OF DESCRIPTION



EXP. 6-30-05

19 FEB. 2004

DANNY E. HILL, P.L.S.
1555 S. RAINBOW BLVD.
LAS VEGAS, NV. 89146

EXHIBIT B
STIPULATIONS
R/W N-78142
CITY OF LAS VEGAS

1. Plant salvage is required for all of the yucca plants within the right-of-way (R/W) area. These plants must be salvaged by a qualified contractor and taken to the Desert Tortoise Conservation Center (DTCC). Contact a BLM botanist at (702) 515-5000 for a transportation permit and directions to the DTCC.

2. Holder shall mark the exterior boundary of the project area with stake and/or lath at 100 to 200 foot intervals. The intervals may be varied at the time of staking at the discretion of the Authorized Officer. The tops of the stakes and/or laths will be painted and the laths flagged in a distinctive color as determined by Holder. Holder shall maintain all boundary stakes and/or laths in place until final cleanup and restoration is completed.

3. Holder shall conduct all activities associated with construction, operation, and termination of this right-of-way within its authorized limits.

4. Any cultural and/or paleontological resources (historic or prehistoric site or object) discovered by Holder, or any person working on his behalf, on public on Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. Holder will be responsible for the cost of evaluation. Any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with Holder. Holder shall be responsible for the resultant mitigation costs.

A Class 3 Paleontologic Resources Assessment (Moccasin Road Extension Project) was conducted by the San Bernardino County Museum in June 2004. The report concluded that there is a high potential to adversely impact significant nonrenewable paleontologic resources. A field work authorization request must be submitted to and approved by the BLM archaeologist, Stanton Rolf (702 515-5055). A qualified paleontologist must be on site to conduct monitoring activities during excavation of portions of the project area. If specimens are recovered, preparation of recovered specimens, identification and curation of specimens, and preparation of a report of findings shall be required in order to mitigate impacts. Holder shall be responsible for resultant mitigation costs.

5. Land surface treatment for areas previously disturbed: Following excavation, trenches will be backfilled with the excavated soil. The soil will be distributed and contoured evenly over the surface of the disturbed area. The soil surface will be left rough to help reduce potential wind erosion.

6. Land surface treatment for areas previously undisturbed: Strip the top six inches of soil material with associated plant material over all surfaces to be disturbed by construction.

AUG 2 5 2004

Stockpile this material along the course of construction (inside the R/W area). At the conclusion, including trench backfilling and compaction, replace the stockpiled soil with plant debris on the surface of the disturbed area in a uniform fashion.

7. Holder shall not violate applicable air and water quality standards or related facility siting standards established by or pursuant to applicable Federal and State law. Holder shall be responsible for dust abatement within the limits of the right-of-way area and is responsible for obtaining the necessary permits from the local authorities responsible for enforcing the applicable Federal and State laws for acceptable dust abatement and control methods. During excavation, backfilling, contouring, and rehabilitation, the disturbed soil should be sufficiently wetted, chemically treated, or treated by other means satisfactory to the local authority responsible for issuing air quality permits to reduce airborne dust and reduce soil erosion. Prior to relinquishment, abandonment, or termination of the right-of-way, the Holder shall apply permanent dust abatement and control (e.g., rock mulch or other means) acceptable to the Authorized Officer.

8. Holder will comply with the terms and conditions of the Biological Opinion, File No. 1-5-96-F-23R.2, on file at the Bureau of Land Management, Las Vegas Field Office.

a. Applicants may voluntarily choose to search for and remove tortoises from lands to be disturbed. Applicants who choose to voluntary search and remove tortoises shall contract or appoint a qualified individual to oversee the process. Only individuals trained to handle desert tortoises in accordance with U.S. Fish and Wildlife Service (FWS) approved guidelines shall be authorized to handle desert tortoises unless they are in imminent danger. Currently, the FWS approved handling guidelines are described in *Guidelines for Handling Desert Tortoises during Construction Projects* (Desert Tortoise Council 1994, revised 1999). For tortoise removals, the applicant shall make arrangements with Clark County's tortoise pick-up service (702) 593-9027 at least 10 days prior to the commencement of tortoise collection.

Tortoises shall not be placed on private lands or lands under management by an agency other than the Bureau of Land Management (BLM) without written permission of the landowner or agency. Results of the tortoise removal will be reported to the Authorized Officer on Form 2, Optional Tortoise Removal Form.

b. If a tortoise is in imminent danger with immediate death or injury likely (such as from an approaching vehicle or equipment), and the tortoise has been given the opportunity to move but has withdrawn in its shell and is not moving, on site personnel may capture the tortoise and place it in a clean unused cardboard box or similar container. The Clark County tortoise pick-up service, mentioned above, shall be notified immediately. The contained tortoise will be held in the shade or temperature-controlled environment until removed by the pick-up service.

c. If the applicant desires, tortoises encountered during construction may be moved out of harm's way to adjacent habitat in accordance with FWS approved protocol described above. If adjacent habitat is no available, arrangements must be made with the Clark County pick-up service for disposition of collected tortoises. Tortoises shall only e moved to adjacent habitat during the

period of March 1 through October 31. Between November 1 and March 1, tortoises shall be deposited with the Clary County pick-up service (702/593-9027).

d. Holder will pay off-site mitigation (fees) $660 per acre of surface disturbance to the Desert Tortoise Habitat Conservation Fund (702/730-9999) administered by Clark County, for all projects that are outside of the "exclusionary zone" (see Attachment A). If fees are not paid until disturbance occurs, the amount shall be based on the mitigations fee at the time of payment. An exception is that there is no mitigation fee for projects impacting less than 0.25 acre. Payment must be by certified check or money order payable to the Clark County Treasurer and delivered to:

Clark County Desert Conservation Program
c/o Dept. of Air Quality and Environmental Management
Clark County Government Center
500 So. Grand Central Parkway, first floor (front counter)
Las Vegas, Nevada 89106
(Contact: Sandy Helvey at (702) 455-5821)

The payment shall be accompanied by a cover letter form the payee that identifies the following information:
1) the project name, biological opinion number (1-5-96-F-23R.2), BLM case file serial number, and payee's name, address and telephone number; and
2) the amount of payment enclosed, and the number of the check or money order.

The project proponent or Holder may receive credit for payment of these fees and deduct such costs from desert tortoise impact fees charged by local government entities.

e. Road rights-of-way issued to local governments (Clark County, Cities of Las Vegas, North Las Vegas, Henderson, and Boulder City) may be issued before payment of off-site mitigation fees. If payment of mitigation fees is postponed, the applicant shall submit a request for a Notice-to-Proceed before surface disturbance. The applicant shall provide the BLM with proof of payment of the required mitigation fees before a Notice-to Proceed is issued. Both of these actions shall occur prior to surface disturbance. A Notice-to-Proceed shall be issued for each segment of right-of-way as mitigation fees payment is made.

f. Upon locating a dead, injured, or sick endangered or threatened species, Holder shall notify the U.S. Fish and Wildlife Service, Division of Law Enforcement (FWSLE) in Las Vegas Nevada at (702) 388-6380. Take care in handling sick or injured desert tortoises to ensure effective treatment and care of the handling of dead specimens to preserve biological material in the best possible state for later analysis of cause of death. In conjunction with the care of sick or injured desert tortoises or preservation of biological materials from a dead animal, the Holder is responsible to perform instructions provided by the FWSLE to ensure that evidence intrinsic to the specimen is not unnecessarily disturbed.

g. Sick or injured desert tortoises shall be delivered to any qualified veterinarian for appropriate treatment or disposal. Dead desert tortoises suitable for preparation as museum specimens shall

be frozen immediately and provided to an institution (per their instructions) holding appropriate Federal and State permits. Should no institutions want the desert tortoise specimens, or if it is determined that they are too damaged (crushed, spoiled, etc.) for preparation as a museum specimen, then they shall be buried away from the project area or cremated, upon authorization by the FWSLE. The Holder/permittee shall bear the cost of any required treatment of injured desert tortoises, euthanasia of sick desert tortoises, or cremation of dead desert tortoises. Sick or injured desert tortoises that are treated by a veterinarian and survive shall be transferred as directed by the FWS.

9. Holder shall construct, maintain, operate and/or modify structures and facilities as directed by the Field Manger to protect and minimize adverse effects upon raptors and other wildlife.

10. Holder shall report wildlife fatalities, including raptor electrocutions, that are discovered on or near project facilities.

11. Holder shall be responsible to incorporate monitoring and eradication of noxious weeds that may be found within the areas disturbed by construction into routine facilities inspection and maintenance.

12. Holder shall be responsible for weed control on disturbed areas within the limits of the right-of-way. Holder is responsible for consultation with the Authorized Officer and/or local authorities for acceptable weed control methods within limits imposed in the grant stipulations.

Holder shall be responsible for the requirement of high-pressure washing of all heavy equipment brought in from out of state for both Notice and Plan of Operations, including Plan of Development level activity.

Holder shall submit a pasture certification/identification that hay or other vegetation grown for use as mulches is weed free, or a feed lot certification stating that weed free feed was consumed by livestock, in the production of organic (manure) fertilizers.

13. Use of pesticides shall comply with the applicable Federal and state laws. Pesticides shall be used only in accordance with their registered uses and within limitations imposed by the Secretary of the Interior. Prior to the use of pesticides, the Holder shall obtain from the Authorized Officer written approval of a plan showing the type and quantity of material to be used, pest(s) to be controlled, method of application, location of storage and disposal of containers and any other information deemed necessary by the Authorized Officer. The plan must provide the type and quantity of material to be used; the pest, insect, storage and disposal of containers; and other information that the Authorized Officer may require. The plan shall be submitted no later than December 1 of any calendar year that covers the proposed activities for the next fiscal year. Pesticides shall not be permanently stored on public lands authorized for use under this grant amendment.

14. Construction sites shall be maintained in a sanitary condition at all times; waste materials at those sites shall be disposed of promptly at an approved waste disposal site. "Waste" means all

discarded matter including, but not limited to, human waste, trash, garbage, refuse, oil drums, construction waste, petroleum products, ashes, and equipment.

15. No hazardous substances or hazardous waste, as defined in this paragraph, shall be used, produced, transported, or stored within the right-of way area at any time by the Holder as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seg. or the Resource Conservation and Recovery Act 42 U.S.C. 6901, et seg. on the right-of-way.

16. Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, Holder/permittee shall comply with the Toxic Substances Control Act of 1976, as amended (15 U.S.C. 2601, et seg.) with regard to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant (see 40 CFR, Part 702-799 and especially, provisions on Polychlorinated biphenyls, 40 CFR 76.1-761.193).

17. Holder shall report any release of hazardous substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 as required by the Comprehensive Environmental Response, Compensation and Liability Act of 1980, Section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the Authorized Officer concurrent with the filing of the reports to the involved Federal agency or State government.

18. Holder shall immediately notify the Authorized Officer of any release of hazardous substances, toxic substances, or hazardous waste on the area authorized by this right-of-way.

19. Holder shall maintain the right-of-way in a safe, useable condition.

20. Holder shall provide the Authorized Officer (the Assistant Field Manager, Division of Lands) with data in a format compatible with the Bureau's Arc-Info Geographic Information System to accurately locate and identify the right-of-way, within 90 days of construction completion. Acceptable data formats are:

a. Corrected Global Positioning System files with sub-meter accuracy or better, in NAD 27 or NAD 83;
b. An AUTOCAD dxf file;
c. Or ARCInfo export files on a CD ROM, 100 mb ZIP disk or 1gb Jazz disk.

Data may be submitted in any of the following formats:
a. ARCInfo export file;
b. On a 3.5 inch floppy disk in compressed or uncompressed format. Compressed or ZIPed data must include a copy of the UNZIP.EXE file on the disk. All data shall include metadata for each coverage, and conform to the Content Standards for Digital Geospatial Metada Federal Geographic Data Committee standards. Contact Mr. Robert Taylor, Bureau of Land Management GIS Coordinator at (702) 515-5051.

21. Holder shall protect all survey monuments found within the authorization area. Survey monuments include, but are not limited to, General Land Office and Bureau of Land Management Cadastral Survey Corners, reference corners, witness points, U.S. Coast and Geodetic Survey benchmarks and triangulation stations, military control monuments, and recognizable civil (both public and private) survey monuments. If any of the above are to be disturbed during operations Holder shall secure the services of a Professional Land Surveyor or Bureau cadastral surveyor to perpetuate the disturbed monuments and references using surveying procedures found in the Manual of Instructions for the Survey of the Public Lands of the United States and Nevada Revised Statutes, Chapter 329, Perpetuation of Corners. Holder shall record such survey in the appropriate county and send a copy to the authorized officer. If the Bureau cadastral surveyors or other Federal surveyors are used to restore the disturbed survey monuments, Holder shall be responsible for the survey cost.

22. Between the periods of March 15 and July 30, surveys for nests of migratory birds and burrowing owls shall be completed prior to surface disturbance. If any active nests are found, the area must be avoided until the young birds fledge. If disturbance in Riparian or at higher elevations is required, Holder shall consult with the Authorized Officer prior to proceeding. Please contact a BLM wildlife biologist at (702) 515-5000 for guidance.

23. The right-of-way is issued subject to all valid and existing rights.

N-78142

DEVELOPMENT SERVICES CENTER

CITY OF LAS VEGAS

Public Works Department
Engineering Planning

731 S. Fourth Street
Las Vegas, NV 89101

Voice 702-229-6541
FAX 702-382-8551
TTY 702-386-9108

TRANSMITTAL

RECEIVED
Bureau of Land Management
MAR 03 2004
LAS VEGAS
FIELD OFFICE
Las Vegas, Nevada

TO: **Robin Yoakum, Realty Specialist**
Division of Lands
Bureau of Land Management
4701 North Torrey Pines Drive
Las Vegas, Nevada 89130-2301

FROM: **Ed Byrge, Supervisor**
Right-of-Way and Real Property Services

DATE: **February 26, 2004**

SUBJECT: **R/W Application for Roadway, Sanitary Sewer & Drainage Along Moccasin Rd., between Fort Apache Rd. & Durango Dr.**
APN's: 100-31-000-001, 100-32-000-001, 100-33-000-001, 125-05-101-002 & -003 and 125-05-503-001

Enclosed for your processing is a Right-of-Way Grant application for roadway, sanitary sewer & drainage purposes on portions of land lying within the Sections 31, 32 and 33 of Township 18 South, Range 60 East and portions of the Northeast Quarter (NE4) and Northwest Quarter (NW4) of Section 5, Township 19 South, Range 60 East, M.D.M.

Also enclosed please find a copy of the following:

- Legal descriptions & exhibits
- Overall map depicting application area
- Master Title Plat
- Assessor's Parcel Maps
- USGS Map
- Aerial

Please provide the BLM file number to this office when the number has been issued.

If you have any questions, please contact Rebecca L. Rury, Right-of-Way Agent at 229-1228.

EB:rlr

Enclosures

cc: Randy Fultz, P.E. (CLV)
Charles Kajkowski, Jr., P.E. (CLV)

Mayor
Oscar B. Goodman

City Council
Gary Reese
(Mayor Pro Tem)
Larry Brown
Lynette Boggs McDonald
Lawrence Weekly
Michael Mack
Janet Moncrief

City Manager
Douglas A. Selby

CITY OF LAS VEGAS NEVADA

STANDARD FORM 299 (10/95)
Prescribed by DOI/USDA/DOT
P.L. 96-487 and Federal
Register Notice 5-22-95

CLV Tracking #100-31-000-001/LogCabinRanch

APPLICATION FOR TRANSPORTATION AND UTILITY SYSTEMS AND FACILITIES ON FEDERAL LAND

FORM APPROVED
OMB NO. 1004-0060
Expires: August 31, 1998

NOTE: Before completing and filing the application, the applicant should completely review this package and schedule a preapplication meeting with representatives of the agency responsible for processing the application. Each agency may have specific and unique requirements to be met in preparing the application. Many times, with the help of the agency representative, the application can be completed at the preapplication meeting.

FOR AGENCY USE ONLY

Application Number
N-78142

Date Filed Feb. 26, 2004
3/3/04

1. Name and address of applicant *(include zip code)*
CITY OF LAS VEGAS
731 S. 4TH STREET
LAS VEGAS, NV 89101

2. Name, Title, and address of Authorized agent If different from Item 1 *(include zip code)*
REBECCA L. RURY, RIGHT-OF-WAY AGENT
DEPARTMENT OF PUBLIC WORKS

3. TELEPHONE *(area code)*
Applicant
(702) 229-1228
Authorized Agent
(702) 229-1228

4. As applicant are you? *(check one)*
a. ☐ Individual
b. ☐ Corporation*
c. ☐ Partnership/Association*
d. ☐ State Government/State Agency
e. ☒ Local Government
f. ☐ Federal Agency
* *If checked, complete supplemental page*

5. Specify what application is for: *(check one)*
a. ☒ New Authorization
b. ☐ Renewing existing authorization No.
c. ☐ Amend existing authorization No.
d. ☐ Assign existing authorization No.
e. ☐ Existing use for which no authorization has been received*
f. ☐ Other*
* *If checked, provide details under item 7*

6. If an individual, or partnership are you a citizen(s) of the United States? ☐ Yes ☐ No

7. Project description *(describe in detail)*: (a) Type of system or facility, *(e.g., canal, pipeline, road)*; (b) related structures and facilities; (C) physical specifications *(length, width, grading, etc.)*; (d) term of years needed; (e) time of year of use or operation; (f) Volume or amount of product to be transported; (g) duration and timing of construction; and (h) temporary work areas needed for construction *(Attach additional sheets, if additional space is needed.)*

SEE ATTACHMENT
FOR COMMENTS

8. Attach a map covering area and show location of project proposal

9. State or Local government approval: ☐ Attached ☒ Applied for ☐ Not required

10. Nonreturnable application fee: ☐ Attached ☒ Not required

11. Does project cross international boundary or affect international waterways? ☐ Yes ☒ No *(If "yes," indicate on map)*

12. Give statement of your technical and financial capability to construct, operate, maintain, and terminate system for which authorization is being requested.

CONSTRUCTION OF THE IMPROVEMENTS SHALL BE COMPLETED BY THE DEVELOPER WITH A BOND GUARANTEE TO THE CITY OF LAS VEGAS. ONCE THE IMPROVEMENTS ARE CONSTRUCTED AND ACCEPTED BY THE CITY OF LAS VEGAS, THE CITY WILL OPERATE AND MAINTAIN THE FACILITIES. MAINTENANCE WILL BECOME PART OF THE ANNUAL OPERATING BUDGET OF THE CITY OF LAS VEGAS, A MUNICIPAL CORPORATION.

(Continued on reverse)

This form is authorized for local reproduction

13a. Describe other reasonable alternative routes and modes considered.
No alternative routes were seriously considered because these road alignments are to be major routes within the northern part of Las Vegas and are needed for this development.

b. Why were these alternatives not selected?
N/A

c. Give explanation as to why it is necessary to cross Federal Lands.
These improvements will provide arterial routes within the northern part of Las Vegas. In order to utilize the alignments, it is necessary to cross federal lands.

14. List authorizations and pending applications filed for similar projects which may provide information to the authorizing agency. *(Specify number, date, code, or name)*
City of Las Vegas has numerous applications on file.

15. Provide statement of need for project, including the economic feasibility and items such as: (a) cost of proposal *(construction, operation, and maintenance)*; (b) estimated cost of next best alternative; and 8) expected public benefits.
SEE ATTACHED

16. Describe probable effects on the population in the area, including the social and economic aspects, and the rural lifestyles.
The effect on population will be beneficial. These transportation routes will allow vehicular access to residential property, schools, places of employment and other developments. The surrounding community will have better accessibility by emergency services. Impact on rural lifestyles should be minimal.

17. Describe likely environmental effects that the proposed project will have on: (a) air quality; (b) visual impact; 8) surface and ground water quality and quantity; (d) the control or structure change on any stream or other body of water; (e) existing noise levels; and (f) the surface of the land, including vegetation, permafrost, soil, and soil stability.
SEE ATTACHED

18. Describe the probable effects that the proposed project will have on (a) populations of fish, plantlife, wildlife, and marine life, including threatened and endangered species; and (b) marine mammals, including hunting, capturing, collecting, or killing these animals.
No adverse affects are foreseen from the long-term occupancy.

19. State whether any hazardous material, as defined in this paragraph, will be used, produced, transported or stored on or within the right-of-way or any of the right- of-way facilities, or used in the construction, operation, maintenance or termination of the right-of-way or any of its facilities. "Hazardous material" means any substance, pollutant or contaminant that is listed as hazardous under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended, 42 U.S.C. 9601 et seq., and its regulations. The definition of hazardous substances under CERCLA includes any "hazardous waste" as defined in the Resource Conservation and Recovery Act of 1976 (RCRA), as amended, 42 U.S.C. 9601 et seq., and its regulations. The term hazardous materials also includes any nuclear or byproduct material as defined by the Atomic Energy Act of 1954, as amended, 42 U.S.C. 2011 et seq. The term does not include petroleum, including crude oil or any fraction thereof that is not otherwise specifically listed or designated as a hazardous substance under CERCLA Section 101(14), 42 U.S.C. 9601(14), nor does the term include natural gas.
No hazardous materials will be used or transported across the requested right-of-way.

20. Name all the Department(s)/Agency (ies) where this application is being filed.
LAS VEGAS DISTRICT
BUREAU OF LAND MANAGEMENT – U.S. DEPARTMENT OF THE INTERIOR

I HEREBY CERTIFY, That I am of legal age and authorized to do business in the State and that I have personally examined the information contained in the application and believe that the information submitted is correct to the best of my knowledge.

Signature of Applicant Charles Taylor CITY OF LAS VEGAS CITY ENGINEER Date 2/26/2004

Title 18, U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

N-78142

ITEM NO. 7

PROJECT DESCRIPTION:

a. & b. The requested application covers an area generally located along the north and south sides of Moccasin Road between Fort Apache Road and Buffalo Drive. The right-of-way lies within the Southwest Quarter (SW4) of Section 5, Township 19 South, Range 60 East, the Southwest Quarter (SW4) of Section 33, the south 50' of Section 32 and portions of the south 50' of Section 31, Township 18 South, Range 60 East, M.D.M. – APN's: 100-31-000-001, 100-32-000-001, 100-33-000-001, 125-05-101-002 and -003. This right-of-way application is for roadway, sanitary sewer, and drainage purposes. The sewer will be constructed using 8" diameter PVC pipe buried approximately 7 – 10 feet. No cross-sections are available at this time.

APN	Square Feet	Length
100-31-000-001	450	90.00'
100-32-000-001	265,716	5,314.32'
100-33-000-001	130,680	2,613.60'
125-05-101-002 & -003**	130,680**	2,613.60'**
125-05-503-001**	31,105**	622.10'**

**Note: Parcels with asterisks are not included in total applicable length as their lengths are already included within other parcels).

The total requested R/W area is approximately 12.82 acres in size. The width varies from 50' to 100' and the total applicable length is approximately 8,017.92' or 1.519 miles.

ITEM NO. 15

STATEMENT OF NEED FOR PROJECT:

As lands surrounding the area continue to develop, major arterial streets are needed in order to provide motor and pedestrian access to neighborhood facilities and to provide access for emergency vehicles. The improvements, as presently planned, will contribute to these needs and connect with other major streets and highways.

a. Cost of Proposal
Cost of the project will be borne by Developers of this project.

b. Cost of Next Best Alternative
No other alternatives have been considered. The road alignments on this project will accommodate the continued growth in the northern part of Las Vegas.

Item No. 15 cont'd.:

c. As development continues to grow in the northern part of the valley, the public will benefit by being able to utilize these roadways and by having vehicular traffic flow more easily to and from residential and surrounding areas.

ITEM NO. 17

LIKELY EFFECTS PROJECT WILL HAVE ON:

a. Air Quality
Air Quality in the area will eventually deteriorate as a result of increased traffic using the roadway; however, decreased air quality in the Las Vegas Valley will likely be experienced as population continues to increase.

b. Visual Impact
Roadways will be graded to conform to the existing contours as much as possible, thereby eliminating large cuts and fills.

c. Surface and Ground Water Quality and Quantity
Surface runoff from rainfall will be somewhat intensified in the area of the roadways because of the asphalt paving; however, the water will eventually be safely channeled into the planned valley-wide flood control system. No other effects are anticipated on surface and ground water.

d. Control or Structural Change on Streams or Bodies of Water
Dirt fill will be placed in most natural washes.

e. Existing Noise Levels
Presently, minimal traffic exists in the area, but the noise levels will not increase much until more development occurs in the area and more connecting streets are built.

f. The Surface of the Land
Vegetation in the area is sparse, consisting mainly of small desert shrubs. Impact on vegetation and soil stability will be minimal.

(26)

Form 2800-14
(August 1985)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
RIGHT-OF-WAY GRANT/TEMPORARY USE PERMIT

| Issuing Office
| Las Vegas Field Office
| Serial Number
| N-83860

1. A (right-of-way) (~~permit~~) is hereby granted pursuant to:

   a. ☒ Title V of the Federal Land Policy and Management Act of October 21, 1976 (90 Stat. 2776; 43 U.S.C. 1761);

   b. ☐ Section 28 of the Mineral Leasing Act of 1920, as amended (30 U.S.C. 185);

   c. ☐ Other (describe)_____.

2. Nature of Interest:

   By this instrument, the holder, the City of Las Vegas, receives a right to construct, operate, maintain, and terminate roadway, drainage, sanitary sewer and streetscape facilities on public lands (or Federal land for MLA Rights-of-Way) described as follows:

   Mount Diablo Meridian
   T. 18 S., R. 60 E.
   Section 31, Lot 4, S½SE¼SW¼, S½S½SE¼.
   Section 32, SW¼SW¼.
   T. 19 S., R. 59 E.
   Section 01, S½SE¼SE¼ SW¼, SE¼SE¼SW¼SE¼, E½SE¼SE¼SE¼.

   Containing approximately 35.08 acres, as shown on map at Exhibit C, attached hereto and made a part thereof.

   A map showing the location of the right-of-way is on file with the Bureau of Land Management, Las Vegas Field Office (N-83860).

b. The right-of-way area granted herein is of variable widths from 50.00 to 932.64 feet wide, 8,614.80 feet long and contains 35.08 acres, more or less. If a site type facility, the facility contains NA acres.

c. This instrument shall ~~terminate on~~ be granted in perpetuity ~~years from its effective date~~ unless, prior thereto, it is relinquished, abandoned, terminated, or modified pursuant to the terms and conditions of this instrument or of any applicable Federal law or regulation.

d. This instrument ☐ may ☐ may not be renewed. If renewed, the right-of-way or permit shall be subject to the regulations existing at the time of renewal and any other terms and conditions that the authorized officer deems necessary to protect the public interest. NOT APPPLICABLE

e. Notwithstanding the ~~expiration of this instrument or any renewal thereof~~, early relinquishment, abandonment, or termination, the provisions of this instrument, to the extent applicable, shall continue in effect and shall be binding on the holder, its successors, or assigns, until they have fully satisfied the obligations and/or liabilities accruing herein before or on account of ~~the expiration, or prior~~ termination, of the grant.

Record Posted	Date	By
MT Plat	1/9/08	MC
OG Plat		
USE Plat		
HI Plat		
CDI Filming		

3. Rental:

For and in consideration of the rights granted, the holder agrees to pay the Bureau of Land Management fair market value rental as determined by the authorized officer unless specifically exempted from such payment by regulation. Provided, however, that the rental may be adjusted by the authorized officer, whenever necessary, to reflect changes in the fair market rental value as determined by the application of sound business management principles, and so far as practicable and feasible, in accordance with comparable commercial practices.

4. Terms and Conditions:

a. This grant or permit is issued subject to the holder's compliance with all applicable regulations contained in Title 43 Code of Federal Regulations 2800 and 2880.

b. Upon grant termination by the authorized officer, all improvements shall be removed from the public lands within 120 days, or otherwise disposed of as provided in paragraph (4)(d) or as directed by the authorized officer.

c. Each grant issued pursuant to the authority of paragraph (1)(a) for a term of 20 years or more shall, at a minimum, be reviewed by the authorized officer at the end of the 20th year and at regular intervals thereafter not to exceed 10 years. Provided, however, that a right-of-way or permit granted herein may be reviewed at any time deemed necessary by the authorized officer.

d. The stipulations, plans, maps, or designs set forth in Exhibits A, B, and C dated DEC 27 2007, attached hereto, are incorporated into and made a part of this grant instrument as fully and effectively as if they were set forth herein in their entirety.

e. Failure of the holder to comply with applicable law or any provision of this right-of-way grant or permit shall constitute grounds for suspension or termination thereof.

f. The holder shall perform all operations in a good and workmanlike manner so as to ensure protection of the environment and the health and safety of the public.

IN WITNESS WHEREOF, The undersigned agrees to the terms and condition of this right-of-way grant or permit.

Jana Cuvanta	Philip Rhinehart for Mark R. Chatterton
(Signature of Holder)	
City Engineer, Public Works	Assistant Field Manager, Non-Renewable Resources
(Title)	(Title)
11/8/2007	12-27-2007
(Date)	(Date)

NOTES

This map is for assessment use only and does NOT represent a survey

No liability is assumed for the accuracy of the data delineated herein.

Information on roads and other non-assessed parcels may be obtained from the Road Document Listing in the Assessor's Office.

This map is compiled from official records, including surveys and deeds, but only contains the information required for assessment. See the recorded documents for more detailed legal information

USE THIS SCALE(FEET) WHICH MAP REDUCED FROM 1IN1' ORIGINAL

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MAP LEGEND

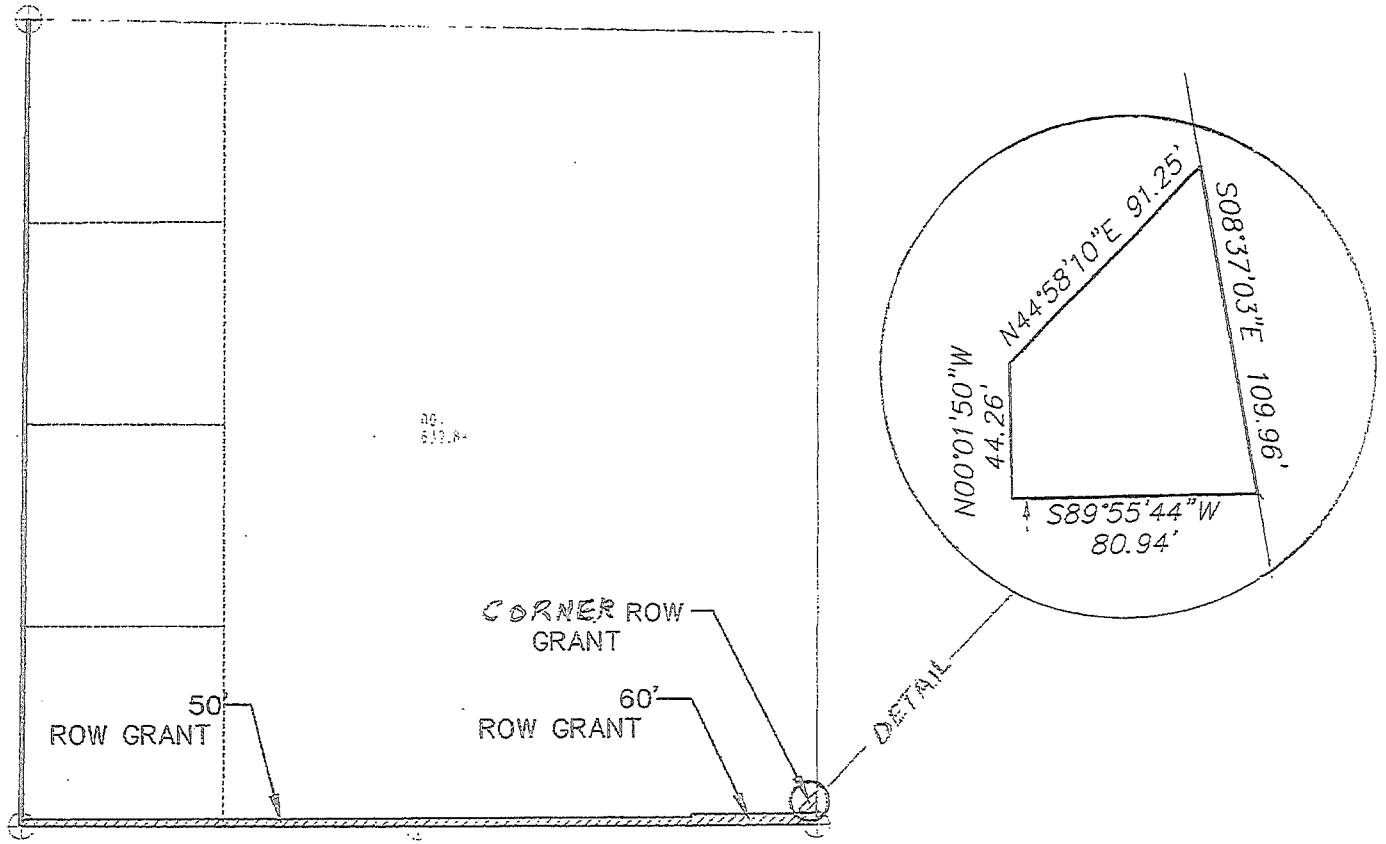
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- SUBD BOUNDARY
- ROAD EASEMENT
- PM/LD BOUNDARY
- NON-PARCEL LOT LINE
- MATCH LINE / LEADER LINE
- ROAD ID NUMBER
- PARCEL NUMBER
- ACREAGE
- PARCEL SUB/SEC NUMBER
- PLAT RECORDING NUMBER
- BLOCK NUMBER
- LOT NUMBER
- GOV LOT NUMBER

AVERAGE CA VALUE 55

ASSESSOR'S PARCELS CLARK CO., NV
W. W. Scrofield, Assessor

T18S R60E | 3 | ALL SEC | 10 S1

Scale: 1"=800' | Revised: 10-10-00



TAX DIST 200

EXHIBIT C
N-83860

NOTES

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USE THIS SCALE(FEET) WHEN MAP REDUCED FROM 11X17 ORIGINAL

0 50 100 200 400 600 800

MAP LEGEND

AVERAGE QA VALUE 55

PARCEL BOUNDARY
SUBD BOUNDARY
ROAD EASEMENT
PM/LD BOUNDARY
NON-PARCEL LOT LINE
MATCH LINE / LEADER LINE
ROAD ID NUMBER

301 PARCEL NUMBER
40.00 ACREAGE
202 PARCEL SUB/SEQ NUMBER
PLAT RECORDING NUMBER
BLOCK NUMBER
LOT NUMBER
GOV. LOT NUMBER

ASSESSOR'S PARCEL CLARK CO., NV
W. Sonchein, Assessor

VOL 1185 A60

SEC 32

TWP ALL SEC

100-32

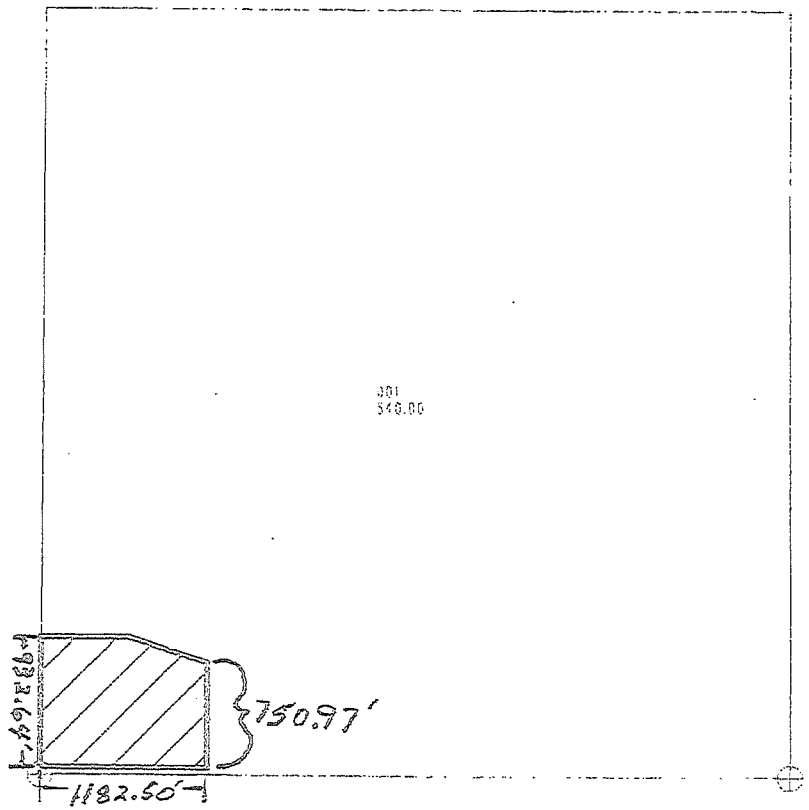
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126	125	124

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8	4		8		4	
5	1		5		1	

Scale: 1"=800'

Warning: 1E:0A



TAX DIST 200

NOTES

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USE THIS SCALE(FEET) WHEN MAP REDUCED FROM 11X17 ORIGINAL

0 50 100 200 400 600 800

MAP LEGEND

AVERAGE DA VALUE: 55

ASSESSOR'S PARCEL CLARK CO., NV.

M. W. Schofield, Assessor

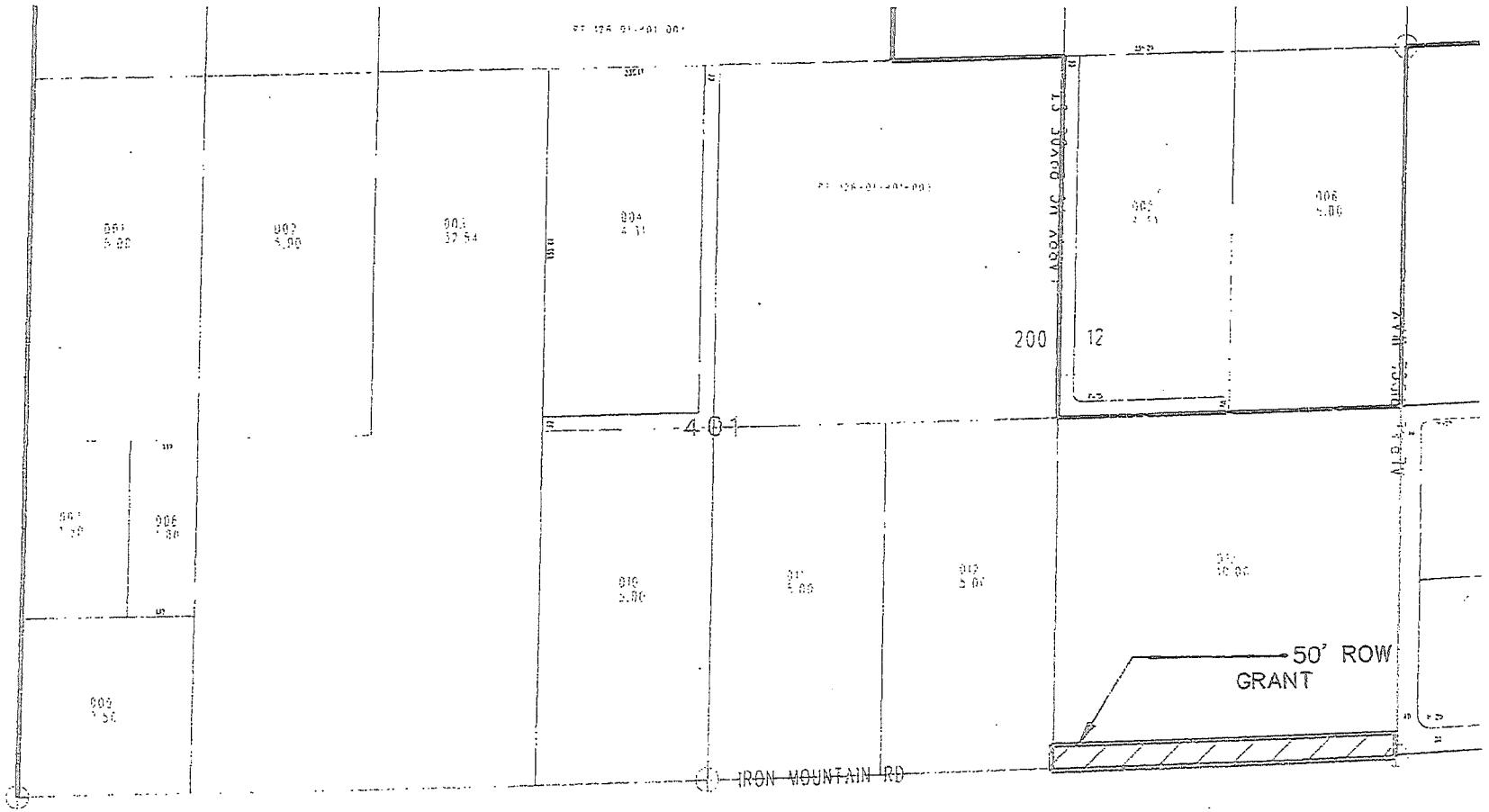
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SUBD BOUNDARY	202 PARCEL SUB/SEC NUMBER
ROAD EASEMENT	PLAT RECORDING NUMBER
PM/LD BOUNDARY	BLOCK NUMBER
NON-PARCEL LOT LINE	LOT NUMBER
MATCH LINE / LEADER LINE	GOV LOT NUMBER
ROAD ID NUMBER	

T35 R59E | 0 | S 9 SW 4 | 126-01

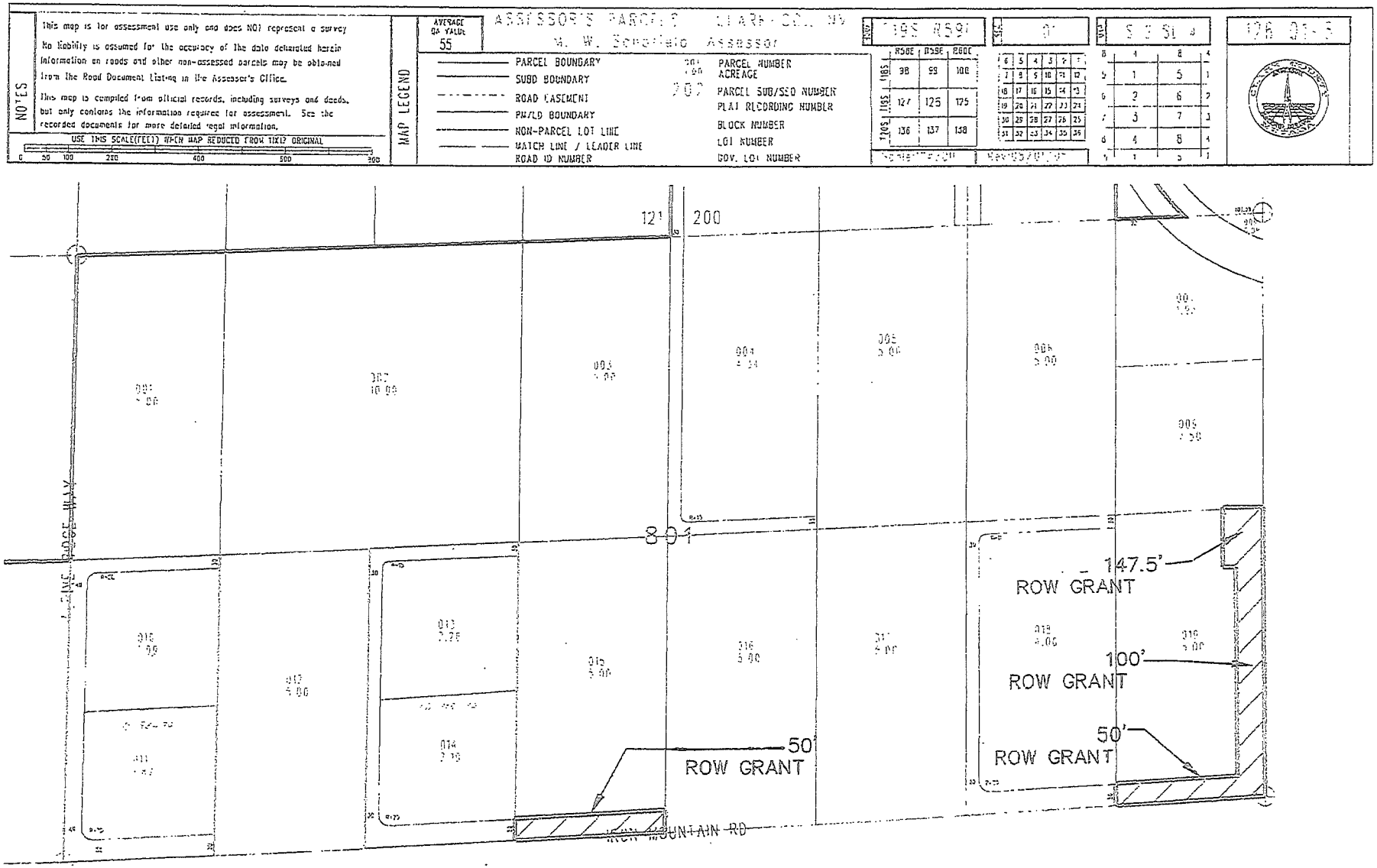
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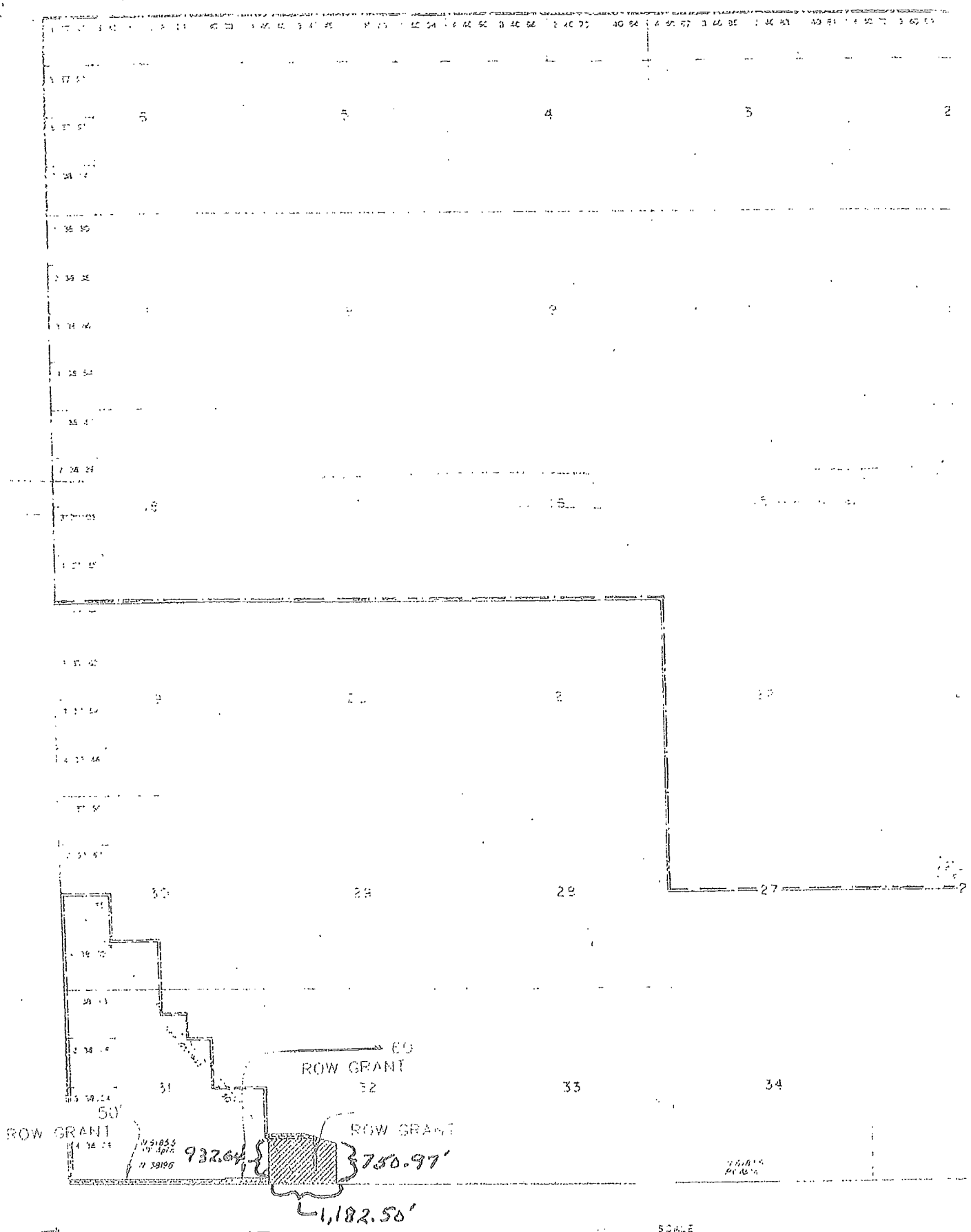
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TAX DIST 121,200

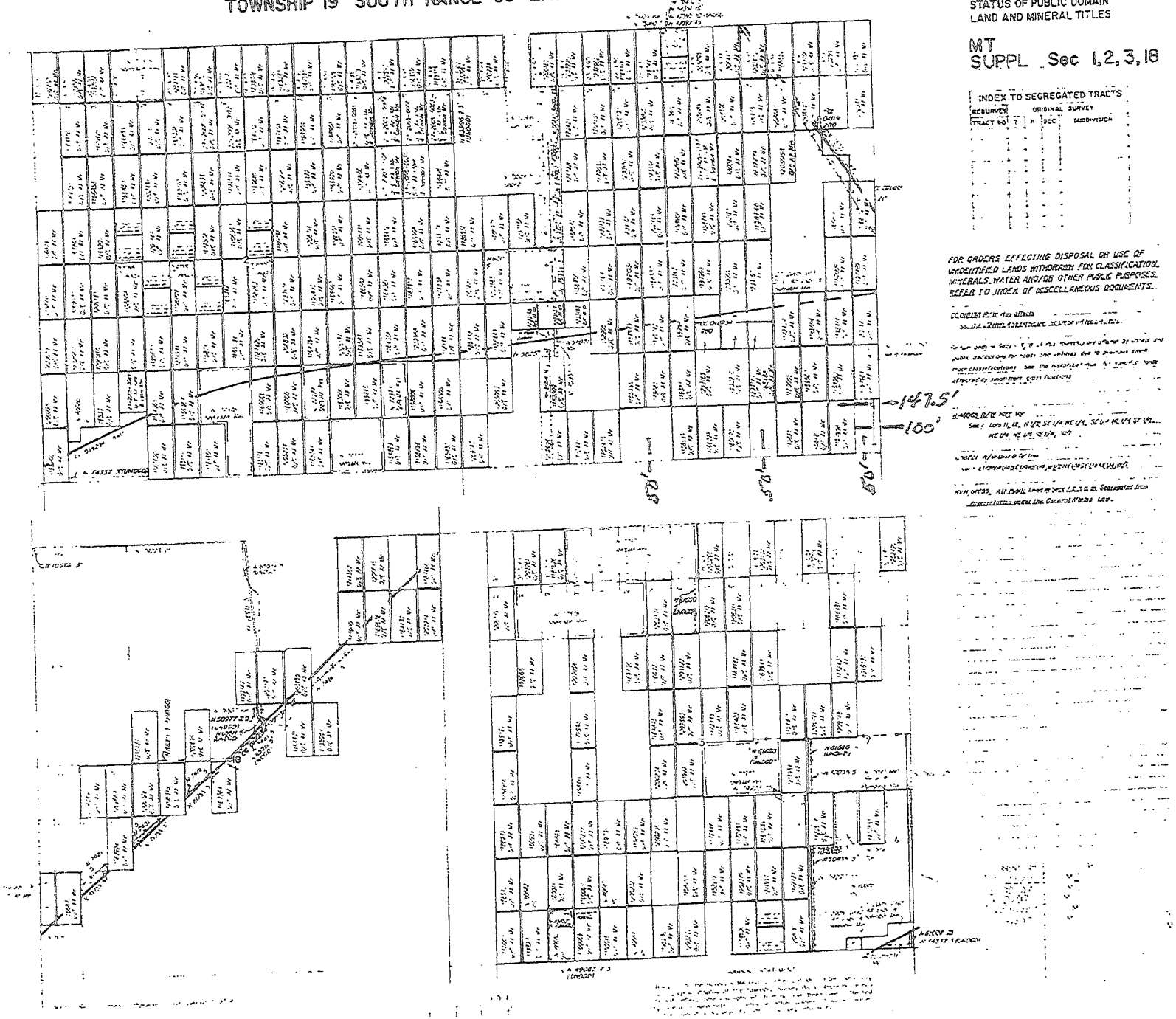


TAX DIST 121,200



T 18S R 60E

TOWNSHIP 19 SOUTH RANGE 59 EAST OF THE MOUNT DIABLO MERIDIAN, NEVADA



STATUS OF PUBLIC DOMAIN
LAND AND MINERAL TITLES

MT
SUPPL Sec 1, 2, 3, 18

INDEX TO SEGREGATED TRACTS

RE SURVEY		ORIGINAL SURVEY		
TRACT NO.	T	R	SEC	SUBDIVISION

FOR ORDERS EFFECTING DISPOSAL OR USE OF UNIDENTIFIED LANDS WITHDRAWN FOR CLASSIFICATION, MINERALS, WATER AND/OR OTHER PUBLIC PURPOSES, REFER TO INDEX OF MISCELLANEOUS DOCUMENTS.

STANDARD FORM 299 (1/2006)
Prescribed by DOI/USDA/DOT
P.L. 96487 and Federal
Register Notice 5-22-95

APPLICATION FOR TRANSPORTATION AND UTILITY SYSTEMS AND FACILITIES ON FEDERAL LANDS

FORM APPROVED
OMB NO. 1004-0189
Expires: November 30, 2008

NOTE: Before completing and filing the application, the applicant should completely review this package and schedule a preapplication meeting with representatives of the agency responsible for processing the application. Each agency may have specific and unique requirements to be met in preparing and processing the application. Many times, with the help of the agency representative, the application can be completed at the preapplication meeting.

FOR AGENCY USE ONLY

Application Number: N-83860

Date filed:

1. Name and address of applicant *(include zip code)*

City of Las Vegas
731 S. 4th Street, Las Vegas, NV 89101
Att: Ed Byrge

2. Name, title, and address of authorized agent if different from item 1 *(include zip code)*

Ed Byrge, Right-of-way and Real Property Supervisor, Department of Public Works

3. TELEPHONE *(area code)*

Applicant: (702) 229-6343

Authorized Agent: (702) 229-6343

4. As applicant are you? *(check one)*

- a. ☐ Individual
- b. ☐ Corporation*
- c. ☐ Partnership/Association*
- d. ☐ State Government/State Agency
- e. ☐ Local Government
- f. ☐ Federal Agency

* *If checked, complete supplemental page*

5. Specify what application is for: *(check one)*

- a. ☑ New authorization
- b. ☐ Renewing existing authorization No.
- c. ☐ Amend existing authorization No.
- d. ☐ Assign existing authorization No.
- e. ☐ Existing use for which no authorization has been received*
- f. ☐ Other*

* *If checked provide details under Item 7*

6. If an individual, or partnership are you a citizen(s) of the United States? ☐ Yes ☐ No

7. Project description *(describe in detail)*: (a) Type of system or facility, *(e.g., canal, pipeline, road)*; (b) related structures and facilities; (c) physical specifications *(length, width, grading, etc.)*; (d) term of years needed; (e) time of year of use or operation; (f) Volume or amount of product to be transported; (g) duration and timing of construction; and (h) temporary work areas needed for construction *(Attach additional sheets, if additional space is needed.)*

SEE ATTACHED PLAN OF DEVELOPMENT: WORK TO INCLUDE CONSTRUCTION OF ROADWAYS, DRAINAGE, SANITARY SEWER AND STREETSCAPES.

8. Attach a map covering area and show location of project proposal

9. State or local government approval: ☐ Attached ☑ Applied for ☐ Not required

10. Nonreturnable application fee. ☐ Attached ☑ Not required

11. Does project cross international boundary or affect international waterways? ☐ Yes ☑ No *(If "yes," indicate on map)*

12. Give statement of your technical and financial capability to construct, operate, maintain, and terminate system for which authorization is being requested.

APPLICANT IS A MUNICIPAL CORPORATION RESPONSIBLE FOR DESIGN AND CONSTRUCTION APPROVAL AND CONSTRUCTION OF THE IMPROVEMENTS SHALL BE BORNE BY THE DEVELOPER WITH A BOND GUARANTEE TO THE CITY OF LAS VEGAS, A MUNICIPAL CORPORATION. ONCE THE IMPROVEMENTS ARE CONSTRUCTED AND ACCEPTED BY THE CITY OF LAS VEGAS, THE CITY WILL OPERATE AND MAINTAIN THE FACILITIES. MAINTENANCE OF THESE FACILITIES WILL BECOME PART OF THE ANNUEL OPERATING BUDGET OF THE CITY.

(Continued on page 2)

This form is authorized for local reproduction.

13a. Describe other reasonable alternative routes and modes considered.

No other reasonable routes or modes available. As the lands surrounding the requested grant areas begin to develop, these roadways and related facilities will allow pedestrians and traffic to flow more easily to and from the residential and commercial developments and will provide routes for emergency vehicles.

b. Why were these alternatives not selected?

The roadway alignment selected best serves the community and the City of Las Vegas transportation, sewer and drainage needs.

c. Give explanation as to why it is necessary to cross Federal Lands

Patterns of local development and modified City of Las Vegas standards for road alignments, sewer and drainage make it necessary to cross federal lands.

14. List authorizations and pending applications filed for similar projects which may provide information to the authorizing agency. *(Specify number, date, code, or name)*

The City of Las Vegas has numerous applications on file.

15. Provide statement of need for project, including the economic feasibility and items such as: (a) cost of proposal *(construction, operation, and maintenance)*; (b) estimated cost of next best alternative; and (c) expected public benefits.

The road will be constructed to accommodate development in the area and improve vehicular access, sewer and drainage infrastructure to the proposed Kyle Canyon Master Planned Community. The estimated cost of the project is unknown at this time but it will be borne by the developers of this project. There is no other next best alternative. As development continues to expand in the area, this will provide roadway improvements, storm drain and sanitary sewer to the surrounding area.

16. Describe probable effects on the population in the area, including the social and economic aspects, and the rural lifestyles.

The roadways give access to the local developments. They will also increase mobility of the resident population within the region. As this area is developed, the social and economic aspects of development are deemed positive and consistent with the City of Las Vegas's respective development standards. Established rural lifestyles are minimal and will not be adversly impacted by this project.

17. Describe likely environmental effects that the proposed project will have on: (a) air quality; (b) visual impact; (c) surface and ground water quality and quantity; (d) the control or structural change on any stream or other body of water; (e) existing noise levels; and (f) the surface of the land, including vegetation, permafrost, soil, and soil stability.

SEE ATTACHED PLAN OF DEVELOPMENT.

18. Describe the probable effects that the proposed project will have on (a) populations of fish, plantlife, wildlife, and marine life, including threatened and endangered species; and (b) marine mammals, including hunting, capturing, collecting, or killing these animals.

Fish and marine life do no exist wihin this project. Smaller animals, such as ground squirrels, mice and others are present, but no significant impact should be noted on their populations. If desert tortoises are encountered, they will be handled in accordance with the Endangered Species Act of 1973 and Clark County Desert Conservation Plan Act of August 1, 1995. Native vegetation will be removed within the project; however, the improvements are within a planned future street alignment.

19. State whether any hazardous material, as defined in this paragraph, will be used, produced, transported or stored on or within the right-of-way or any of the right-of-way facilities, or used in the construction, operation, maintenance or termination of the right-of-way or any of its facilities. "Hazardous material" means any substance, pollutant or contaminant that is listed as hazardous under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended, 42 U.S.C. 9601 et seq., and its regulations. The definition of hazardous substances under CERCLA includes any "hazardous waste" as defined in the Resource Conservation and Recovery Act of 1976 (RCRA), as amended, 42 U.S.C. 9601 et seq., and its regulations. The term hazardous materials also includes any nuclear or byproduct material as defined by the Atomic Energy Act of 1954, as amended, 42 U.S.C. 2011 et seq. The term does not include petroleum, including crude oil or any fraction thereof that is not otherwise specifically listed or designated as a hazardous substance under CERCLA Section 101(14), 42 U.S.C. 9601(14), nor does the term include natural gas.

The City of Las Vegas does not intend to use or transport hazardous material within the requested right-of-ways in compliance with Section 9.36 ("Transportation of Hazardous Material") of the City of Las Vegas Code.

20. Name all the Department(s)/Agency(ies) where this application is being filed.

Las Vegas District Office - Bureau of Land Management, Department of the Interior.

I HEREBY CERTIFY, That I am of legal age and authorized to do business in the State and that I have personally examined the information contained in the application and believe that the information submitted is correct to the best of my knowledge.

Signature of Applicant | Date 7/10/07

Title 18, U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious, or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 3)

PLAN OF DEVELOPMENT
CITY OF LAS VEGAS PUBLIC ROADWAY

(A). Type of System or Facility/Background (purpose and need):

The proposed facilities for the Kyle Canyon Community are not only for public roadway, drainage and sanitary sewer but to also allow access to and from future development within the area. As land surrounding the area continues to develop, interconnecting roadways will be needed in order to convey drainage and provide motor vehicle access, including emergency vehicles, pedestrian access and circulation to neighborhood facilities. The described right-of-ways are necessary to allow for the construction of improvements as presently planned, and will contribute to these needs. In order to construct the roadway sections for the region, a right-of-way grant will be necessary. This application is for roadway, sanitary sewer, drainage, and streetscape amenities. Any additional area not covered by the roadway will be used as construction easements. Attached for review is the Kyle Canyon Master Drainage study (MDS) Volumes I and II and Response to Comments. The MDS has been reviewed and approved by the City of Las Vegas, Clark County Regional Flood Control District (RFCD), Nevada Department of Transportation and Clark County. It should be noted that the MDS is in conformance with all entity requirements and the RFCD Master Plan Update (MPU) that is currently being prepared.

(B). Related Structures:

None.

(C). Project Description/Physical Specifications (Application Form, Section 7):

These remote sites are located within portions of Section 1, Township 19 South, Range 59 East; Section 5 Township 19 South, Range 60 East; Sections 31, 32 Township 18 South Range 60 East, M.D.M. Construction of roadways, sanitary sewer, drainage, grading, and streetscape amenities.

	Township	Range	Section	General Description	Width (FT)	Length (FT)	Area (Acre)
Parcel B	19S	59E	1	Portion of SE1/4 of SE1/4 of SW1/4	50	668	0.77
Parcel C	19S	59E	1	Portion of E1/2 of SE1/4 of SW1/4 of SE1/4	50	346	0.40
Parcel D	19S	59E	1	Portion of E1/2 of SE1/4 of SE1/4 of SE1/4	Varies	Varies	1.92
Parcel E	18S	60E	31	Portion of S1/2	Varies	Varies	6.37
Parcel F	18S	60E	31	Portion of S1/2 of SE1/4	Varies	Varies	0.13
Parcel G	18S	60E	32	Portion of NE1/4 of NW1/4	Varies	Varies	25.49
Parcel H	18S	60E	5	Portion of NW1/4	10	2600	0.60
				TOTALS			35.68

Location:
See attached legal descriptions and exhibits.

Total amount of disturbance:
Of the approximately 35.68 acres included in the project, approximately 2.52 acres are previously disturbed; the remaining *approximate 33.16 acres will be disturbed.*

Total amount of previous disturbance:
Of the approximately 35.68 acres included in the project, *approximately 2.52 acres are previously disturbed and paved.*

Total amount of new disturbance:
33.16 acres

Time of year construction will begin:
4th Quarter of 2007

Duration of construction:
Perpetuity

Sequence of events:
For the each of the roadway projects, the work force will include an estimated 5 to 50 people, including survey crews, inspectors, contractors, laborers, and equipment operators. However, it is not likely all 50 people will be on the site at one time. Vehicles on site during construction will include trucks, heavy equipment loaders, bulldozers, and dump trucks.

(D). Term of years needed:

Perpetuity

(E). Time of year of use:

Use of the roadways will be year-round.

(F). Volume or amount of product to be transported:

There will be sufficient volumes of grading, fill and material to construct each of the roadways.

(G). How long will construction take:

Construction is anticipated to be complete in 10 years.

(H). Will temporary work areas be needed:

Yes.

Construction:
At present, the proposed roadways will be improved with asphalt pavement and ancillary drainage facilities, per the *Modified Improvement Standard* shown on the attached roadway exhibit.

Reclamation:
Short-term – areas used during construction of roadways, sanitary sewer, drainage and streetscape amenities to be returned to natural grade.

Right-of-way – all improvements are to be within the easements. Because all areas are designated for eventual development, reclamation is unlikely.

Maintenance and Operation:
The City of Las Vegas will maintain the right-of-ways as required by BLM stipulations.

(17). Environmental effects:

(a) Any potential adverse effects on air quality during construction will be mitigated by compliance with Clark County Health District, Air Quality Division, Air Pollution Control Department requirements. (b) Roadways will be graded to conform to the existing contours where possible, thereby eliminating large cuts and fills. (c) None, sources of surface or ground water do not exist in the requested grant area. (d) Dirt fill will be placed in most natural washes. (e) Presently, traffic exists in some areas of this application, but the noise levels will not increase much until more development occurs in the area and more connecting streets are built. (f) Native vegetation will be removed within the requested grant area for construction of the project. However, the location of the finished system is within a future master planned major arterial street. Permafrost is non-existent. No adverse environmental effects on soils or soil stability will be associated with the construction of the system.

G. C. WALLACE COMPANIES
ENGINEERS | PLANNERS | SURVEYORS

APN# 126-01-401-013, 126-01-801-015 AND 019, 100-31-000-001 AND 100-32-000-001

EXHIBIT "A"

EXPLANATION: THIS LEGAL DESCRIBES PERMANENT RIGHT-OF-WAY PERMIT AREAS IN SUPPORT OF THE KYLE CANYON PROJECT.

LEGAL DESCRIPTION

PORTIONS OF SECTION 1, TOWNSHIP 19 SOUTH, RANGE 59 EAST, AND SECTIONS 31 AND 32, TOWNSHIP 18 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, DESCRIBED AS FOLLOWS:

PARCEL B (PTN APN 126-01-401-013)

RIGHT-OF-WAY GRANT FOR ROADWAY, SANITARY SEWER, DRAINAGE AND STREETSCAPE AMENITIES.

BEING THE SOUTH 50.00 FEET OF THE SOUTHEAST QUARTER (SE1/4) OF THE SOUTHEAST QUARTER (SE1/4) OF SOUTHWEST QUARTER (SW1/4) OF SECTION 1, TOWNSHIP 19 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA.

CONTAINING 33,649 SQUARE FEET OR 0.77 ACRES;

TOGETHER WITH

PARCEL C (PTN APN 126-01-801-015)

RIGHT-OF-WAY GRANT FOR ROADWAY, SANITARY SEWER, DRAINAGE AND STREETSCAPE AMENITIES.

BEING THE SOUTH 50.00 FEET OF THE EAST HALF (E1/2) OF THE SOUTHEAST QUARTER (SE1/4) OF THE SOUTHWEST QUARTER (SW1/4) OF THE SOUTHEAST QUARTER (SE1/4) OF SECTION 1, TOWNSHIP 19 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA.

CONTAINING 17,293 SQUARE FEET OR 0.40 ACRES.

TOGETHER WITH

PARCEL D (PTN APN 126-01-801-019)

RIGHT-OF-WAY GRANT FOR ROADWAY, SANITARY SEWER, DRAINAGE AND STREETSCAPE AMENITIES.

BEING THE EAST 147.50 FEET OF THE NORTH 100.00 FEET, TOGETHER WITH THE EAST 100.00 FEET EXCEPTING THEREFROM THE NORTH 100.00 FEET, TOGETHER WITH THE SOUTH 50.00 FEET EXCEPTING THEREFROM THE EAST 100.00 FEET, ALL BEING OF THE EAST HALF (E1/2) OF THE SOUTHEAST QUARTER (SE1/4) OF THE SOUTHEAST QUARTER (SE1/4) OF THE SOUTHEAST QUARTER (SE1/4) OF SECTION 1, TOWNSHIP 19 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA.

CONTAINING 83,797SQUARE FEET OR 1.92 ACRES.

TOGETHER WITH

PARCEL E (PTN APN 100-31-000-001)

RIGHT-OF-WAY GRANT FOR DRAINAGE, FLOOD CONTROL AND OUTFALL.

BEING THE SOUTH 50 FEET, TOGETHER WITH THE NORTH 10.00 FEET OF THE SOUTH 60 FEET OF THE EAST 800 FEET, ALL BEING OF THE SOUTH HALF (S 1/2) OF SECTION 31, TOWNSHIP 18 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA,

CONTAINING 277,418 SQUARE FEET OR 6.37 ACRES.

TOGETHER WITH

PARCEL F (PTN APN 100-31-000-001)

RIGHT-OF-WAY GRANT FOR DRAINAGE, FLOOD CONTROL AND OUTFALL.

COMMENCING AT THE SOUTHEAST CORNER OF THE SOUTHEAST QUARTER (SE 1/4) OF SAID SECTION 31; THENCE ALONG THE EAST LINE OF SAID SOUTHEAST QUARTER (SE 1/4), NORTH 08°37'03" WEST, 60.67 FEET TO THE **POINT OF BEGINNING;**

THENCE DEPARTING SAID EAST LINE AND ALONG THE NORTH LINE OF THE SOUTH 50 FEET OF SAID SOUTHEAST QUARTER (SE 1/4), SOUTH 89°55'44" WEST, 80.94 FEET; THENCE DEPARTING SAID NORTH LINE, NORTH 00°01'50" WEST, 44.26 FEET; THENCE NORTH 44°58'10" EAST, 91.25 FEET TO A POINT ON THE EAST LINE OF SAID SOUTHEAST QUARTER (SE 1/4); THENCE ALONG SAID EAST LINE, SOUTH 08°37'03" EAST, 109.96 FEET TO THE **POINT OF BEGINNING.**

CONTAINING 5,829 SQUARE FEET OR 0.13 ACRES.

TOGETHER WITH

PARCEL G (PTN APN 100-32-000-001)

RIGHT-OF-WAY GRANT FOR DRAINAGE, FLOOD CONTROL AND OUTFALL.

COMMENCING AT THE SOUTHWEST CORNER OF THE SOUTHWEST QUARTER (SW 1/4) OF SAID SECTION 32; THENCE ALONG THE WEST LINE OF SAID SOUTHWEST QUARTER (SW 1/4), NORTH 08°37'03" WEST, 50.56 FEET TO THE **POINT OF BEGINNING;**

THENCE CONTINUING ALONG SAID WEST LINE, NORTH 08°37'03" WEST, 932.64 FEET; THENCE DEPARTING SAID WEST LINE, SOUTH 90°00'00" EAST, 768.49 FEET; THENCE SOUTH 71°53'24" EAST, 582.57 FEET; THENCE SOUTH 00°00'00" WEST 750.97 FEET TO A POINT ON THE NORTH LINE OF THE SOUTH 50.00 FEET OF SAID SOUTHWEST QUARTER (SW1/4); THENCE ALONG SAID NORTH LINE, NORTH 89°31'04" WEST, 1,182.50 FEET TO THE **POINT OF BEGINNING.**

CONTAINING 1,110,532 SQUARE FEET OR 25.49 ACRES.

TOGETHER WITH

PARCEL H (APN 125-05-101-002 AND 003 AND 125-05-201-001)

RIGHT-OF-WAY GRANT FOR ROADWAY, SANITARY SEWER DRAINAGE AND STREETSCAPE AMENITIES.

BEING THE EAST 10 FEET OF THE WEST 60 FEET OF GOVERNMENT LOTS 11, 12, 15, 16 AND 19, OF SECTION 5, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CITY OF NORTH LAS VEGAS, CLARK COUNTY, NEVADA.

EXCEPTING THEREFROM THE NORTH 50 FEET OF SAID GOVERNMENT LOT 11 AND THE SOUTH 40 FEET OF SAID GOVERNMENT LOT 19 OF SAID SECTION 5.

CONTAINING 26,046 SQUARE FEET OR 0.60 ACRES.

ALL PARCELS INCLUDED CONTAIN 1,554,564 SQUARE FEET OR 35.68 ACRES.

BASIS OF BEARINGS:
SOUTH 88°23'36" WEST, BEING THE SOUTH LINE OF THE SOUTHWEST QUARTER (SW ¼) OF SECTION 1, TOWNSHIP 19 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA AS SHOWN ON THE MAP IN FILE 158 OF SURVEYS, PAGE 40, OFFICIAL RECORDS IN THE OFFICE OF THE CLARK COUNTY NEVADA RECORDER'S OFFICE.

END OF DESCRIPTION.

PREPARED BY:
DONNA J. STRALOW, PLS
NEVADA LICENSE NO. 16448
EXPIRES: JUNE 30, 2008



29 JUNE 2007

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6/28/2007 By: ALC Ckd. By: DJS

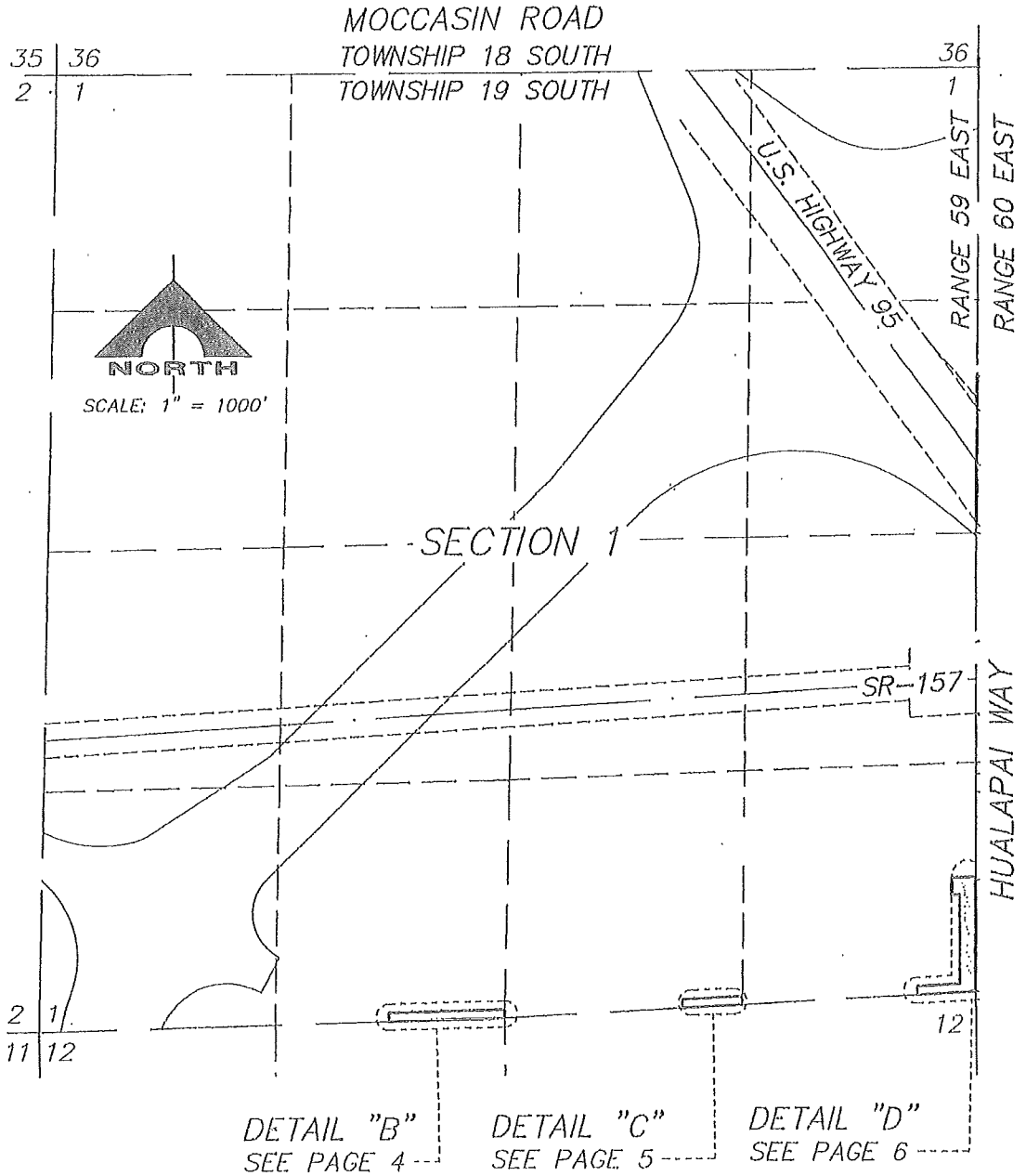
6655 SOUTH CIMARRON ROAD. / LAS VEGAS, NEVADA 89113 / TELEPHONE: (702) 804-2000 / FAX: (702) 804-4379
SUMMERLIN OFFICE FAX: (702) 804-2295 ◦ RAINBOW OFFICE FAX: (702) 804-2299

APN 126-01-401-003 AND 013, 126-01-801-015 AND 019
USA

RIGHT-OF-WAY GRANT FOR ROADWAY, SANITARY SEWER, DRAINAGE, STREETSCAPE AMENITIES

LYING WITHIN SECTION 01, T. 19 S., R. 59 E., M.D.M., CITY OF ~~NORTH~~ LAS VEGAS, CLARK COUNTY, NEVADA

EXHIBIT "B"

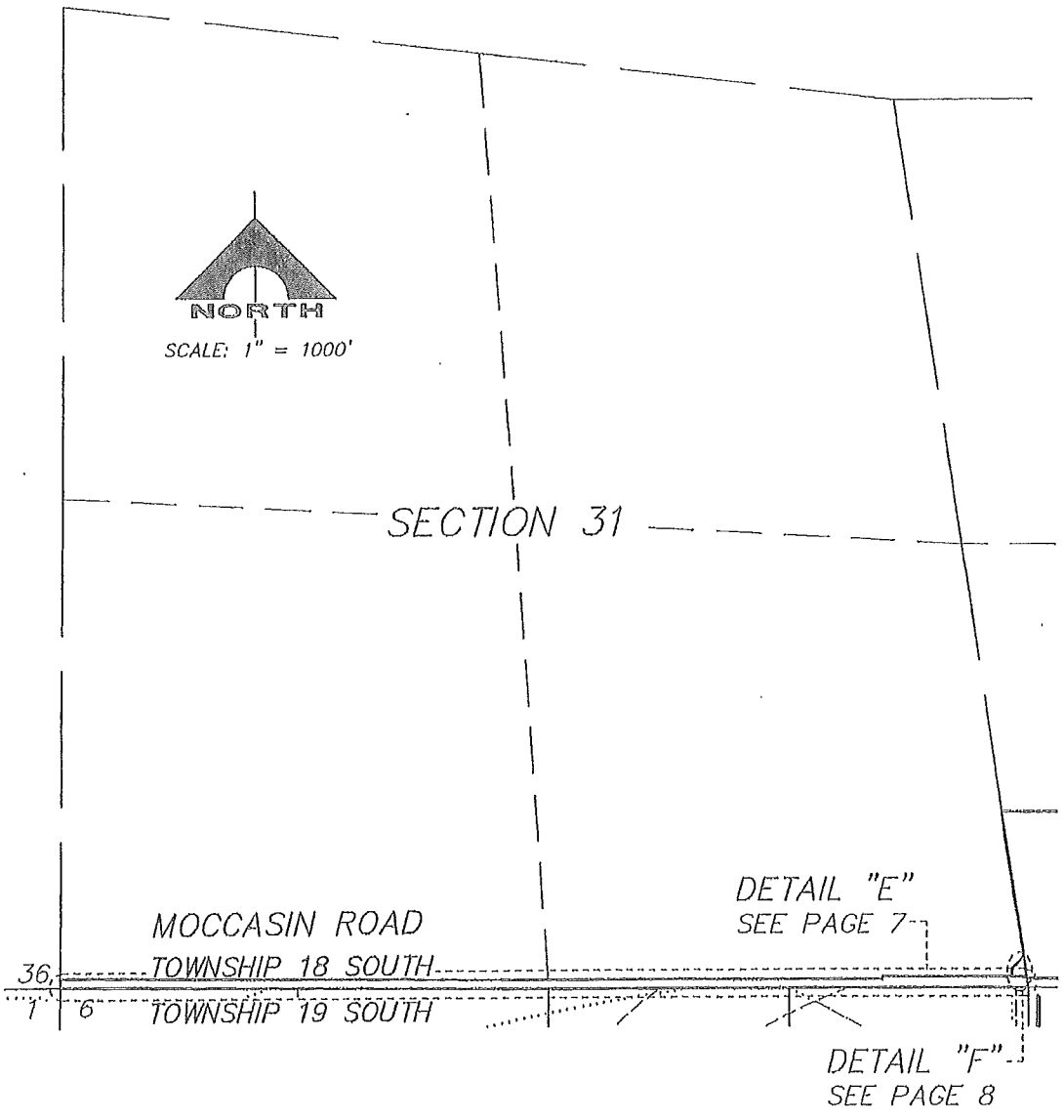


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1555 S. RAINBOW BOULEVARD · LAS VEGAS, NV 89146
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APN 100-31-000-001
USA

RIGHT-OF-WAY GRANT FOR DRAINAGE, FOOD CONTROL AND OUTFALL
LYING WITHIN SECTION 31, T. 18 S., R. 60 E., M.D.M., CITY OF
~~NORTH~~ LAS VEGAS, CLARK COUNTY, NEVADA
EXHIBIT "B"



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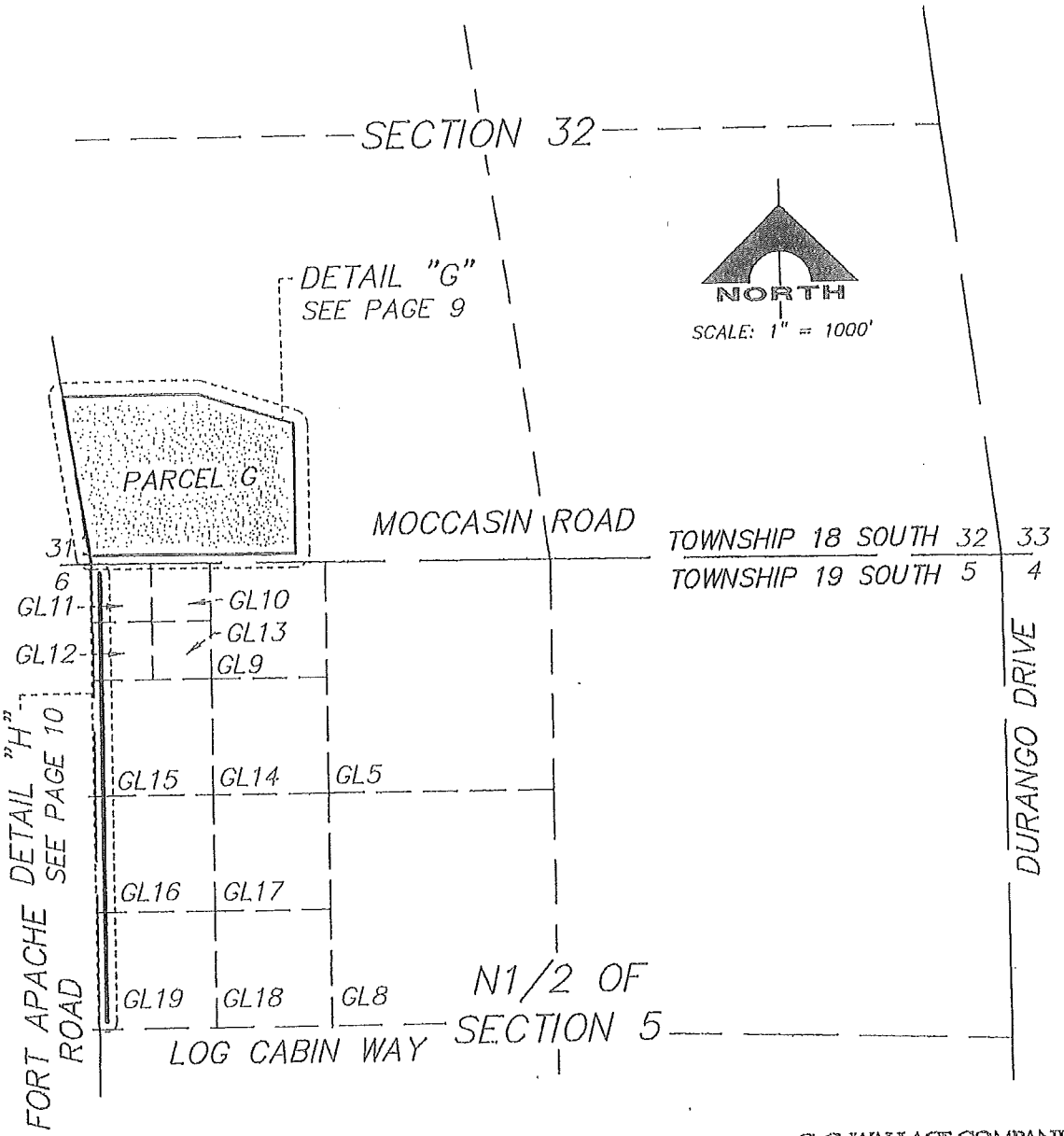
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APN 100-32-000-001, 125-05-101-002, 003 AND 125-05-201-001
USA

RIGHT-OF-WAY GRANT FOR DRAINAGE, FOOD CONTROL, OUTFALL, ROADWAY, SANITARY SEWER AND STREETSCAPE AMENITIES

LYING WITHIN SECTION 32, T. 18 S., R. 60 E., AND SECTION 5, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CITY OF ~~NORTH~~ LAS VEGAS, CLARK COUNTY, NEVADA

EXHIBIT "B"



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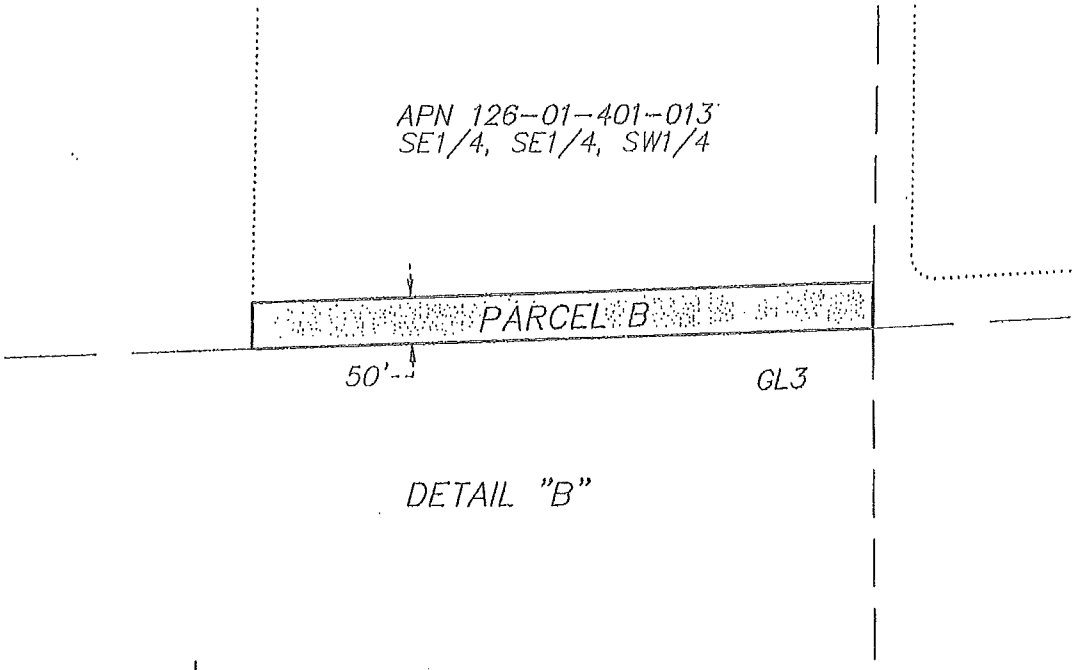
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APN 126-01-401-013
USA

RIGHT-OF-WAY GRANT FOR ROADWAY, SANITARY SEWER, DRAINAGE, STREETSCAPE AMENITIES

LYING WITHIN SECTION 01, T. 19 S., R. 59 E., M.D.M., CITY OF ~~NORTH~~ LAS VEGAS, CLARK COUNTY, NEVADA

EXHIBIT "B"



DETAIL "B"

NORTH

SCALE: 1" = 200'

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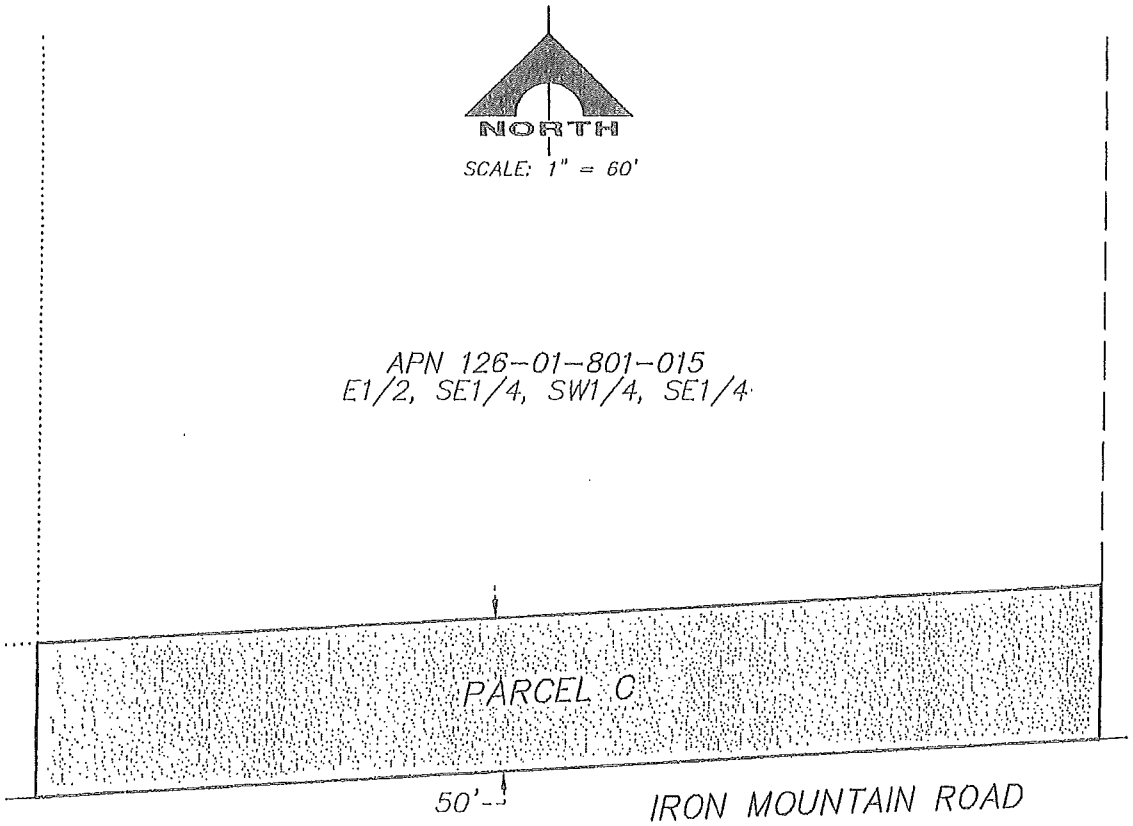
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APN 126-01-801-015
USA

RIGHT-OF-WAY GRANT FOR ROADWAY, SANITARY SEWER, DRAINAGE, STREETSCAPE AMENITIES

LYING WITHIN SECTION 01, T. 19 S., R. 59 E., M.D.M., CITY OF ~~NORTH~~ LAS VEGAS, CLARK COUNTY, NEVADA

EXHIBIT "B"



DETAIL "C"

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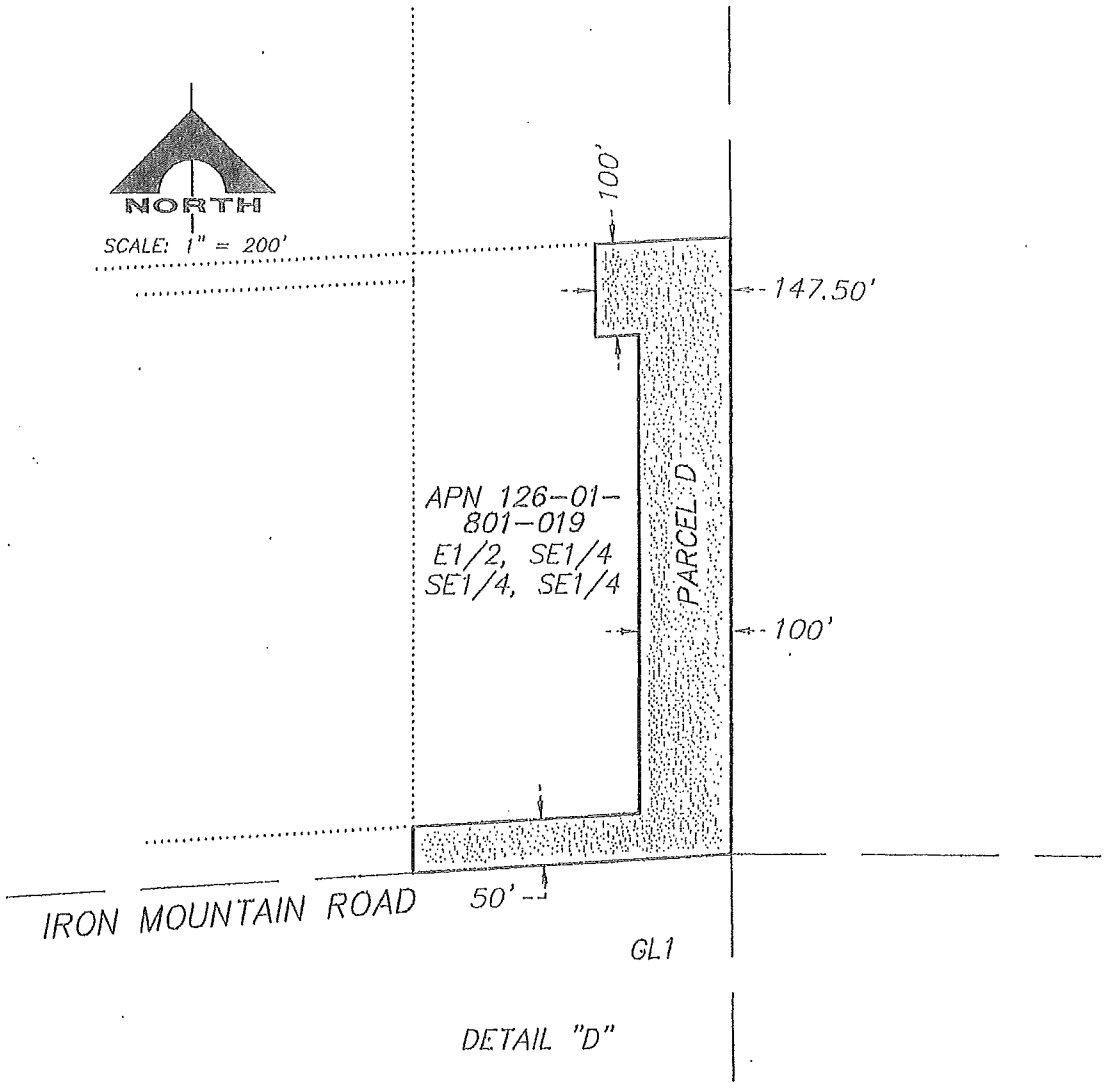
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APN 126-01-801-019
USA

RIGHT-OF-WAY GRANT FOR ROADWAY, SANITARY SEWER, DRAINAGE, STREETSCAPE AMENITIES

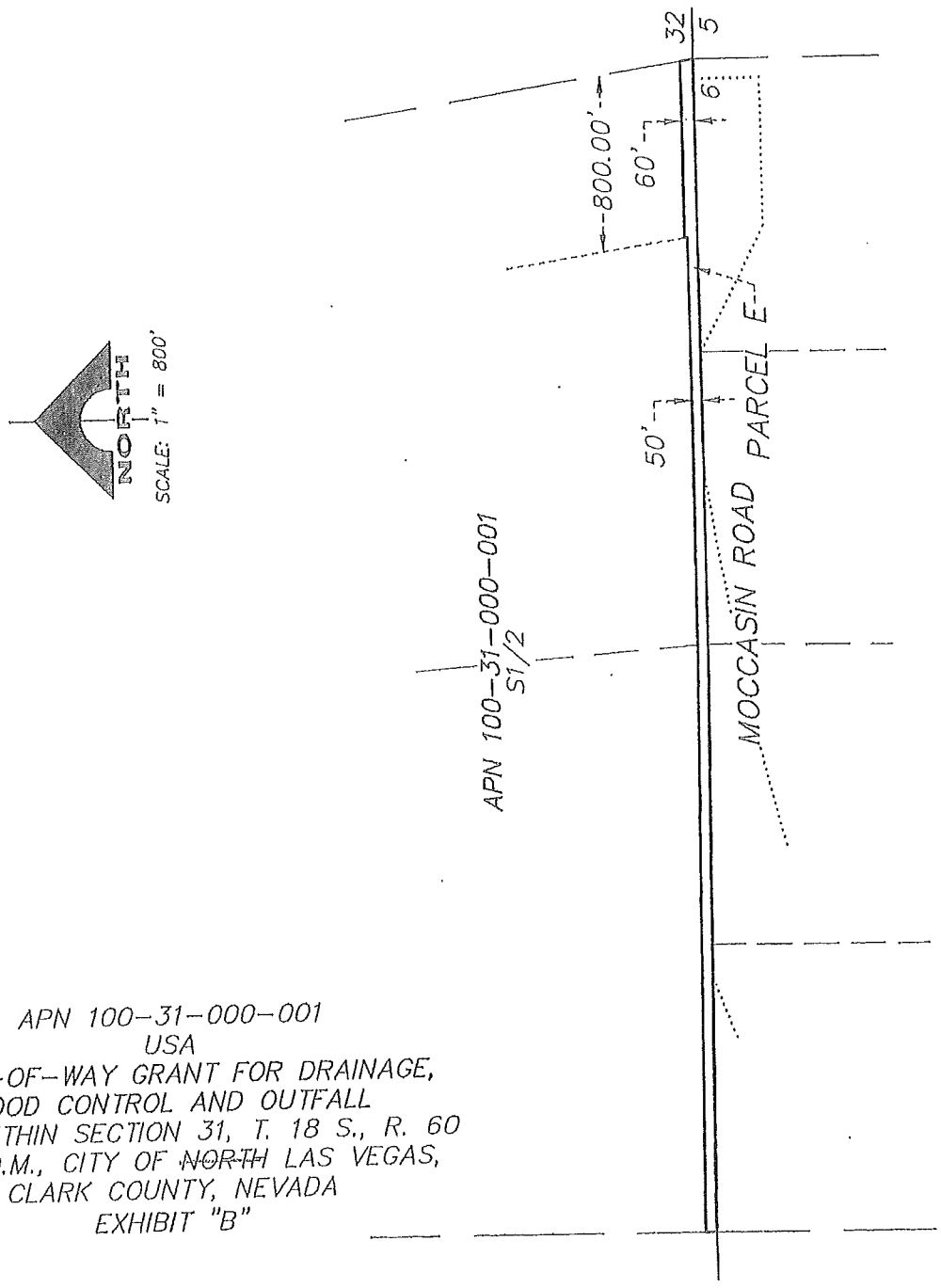
LYING WITHIN SECTION 01, T. 19 S., R. 59 E., M.D.M., CITY OF ~~NORTH~~ LAS VEGAS, CLARK COUNTY, NEVADA

EXHIBIT "B"



DETAIL "D"

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APN 100-31-000-001
USA
RIGHT-OF-WAY GRANT FOR DRAINAGE,
FOOD CONTROL AND OUTFALL
LYING WITHIN SECTION 31, T. 18 S., R. 60
E., M.D.M., CITY OF ~~NORTH~~ LAS VEGAS,
CLARK COUNTY, NEVADA
EXHIBIT "B"

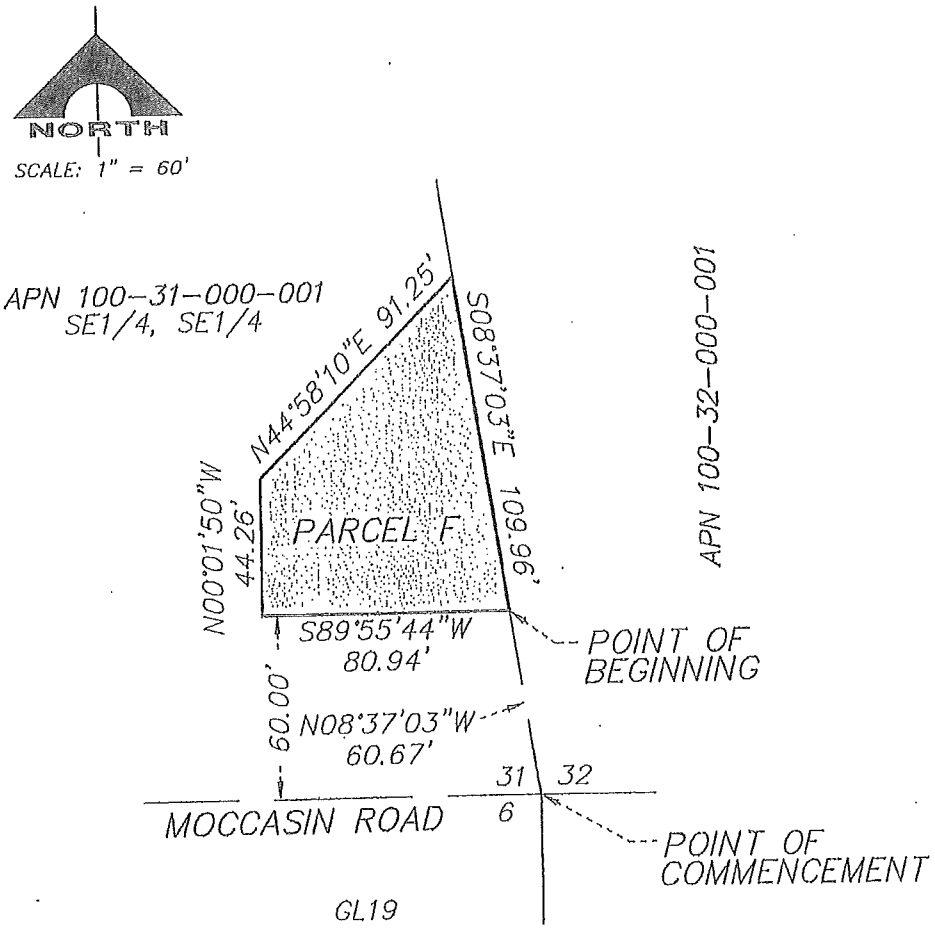
DETAIL "E"

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APN 100-31-000-001
USA

RIGHT-OF-WAY GRANT FOR DRAINAGE, FOOD CONTROL AND OUTFALL
LYING WITHIN SECTION 31, T. 18 S., R. 60 E., M.D.M., CITY OF
~~NORTH~~ LAS VEGAS, CLARK COUNTY, NEVADA
EXHIBIT "B"



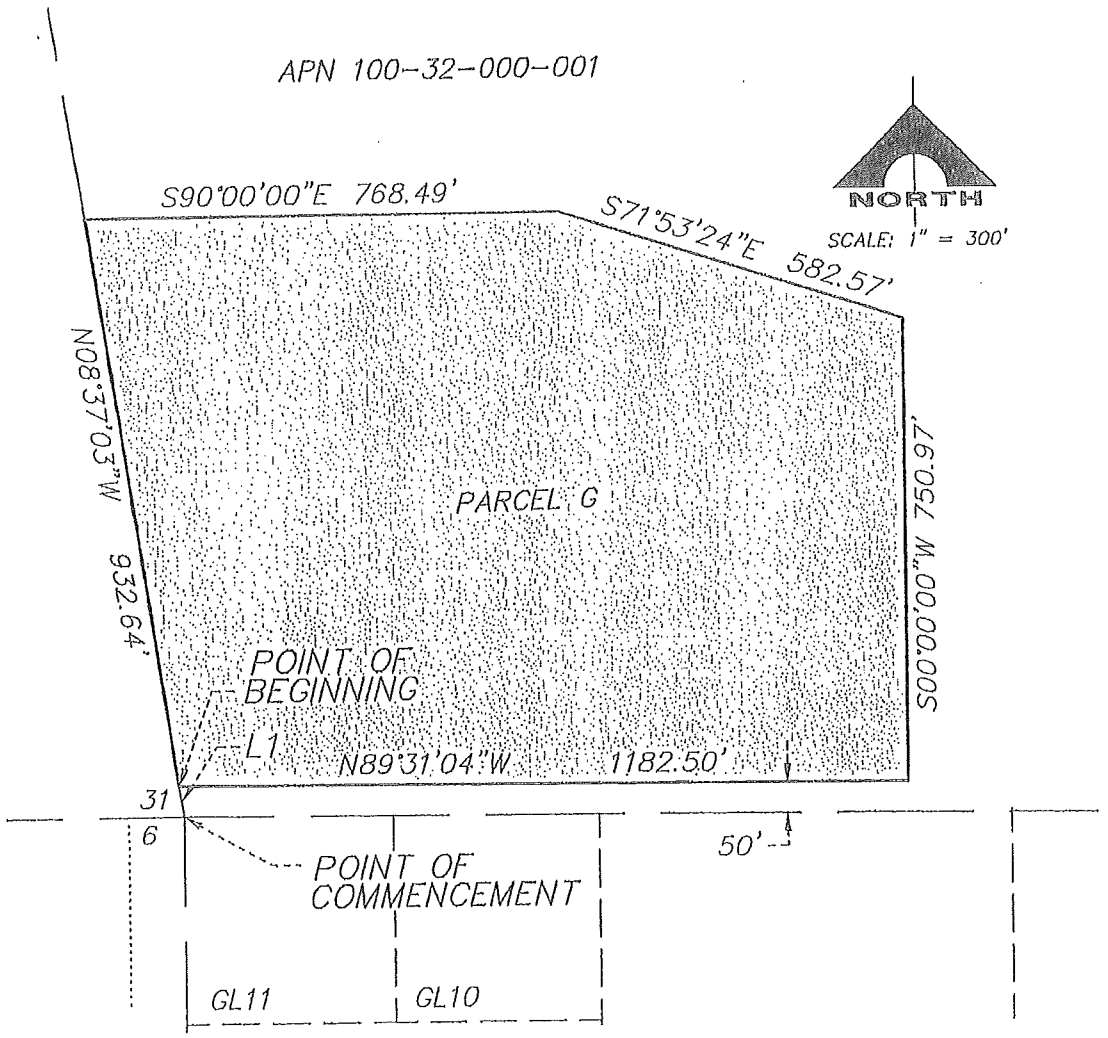
DETAIL "F"

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APN 100-32-000-001
USA

RIGHT-OF-WAY GRANT FOR DRAINAGE, FOOD CONTROL AND OUTFALL
LYING WITHIN SECTION 32, T. 18 S., R. 60 E., M.D.M., CITY OF
~~NORTH~~ LAS VEGAS, CLARK COUNTY, NEVADA
EXHIBIT "B"



LINE	BEARING	DISTANCE
1	N08°37'03"W	50.56'

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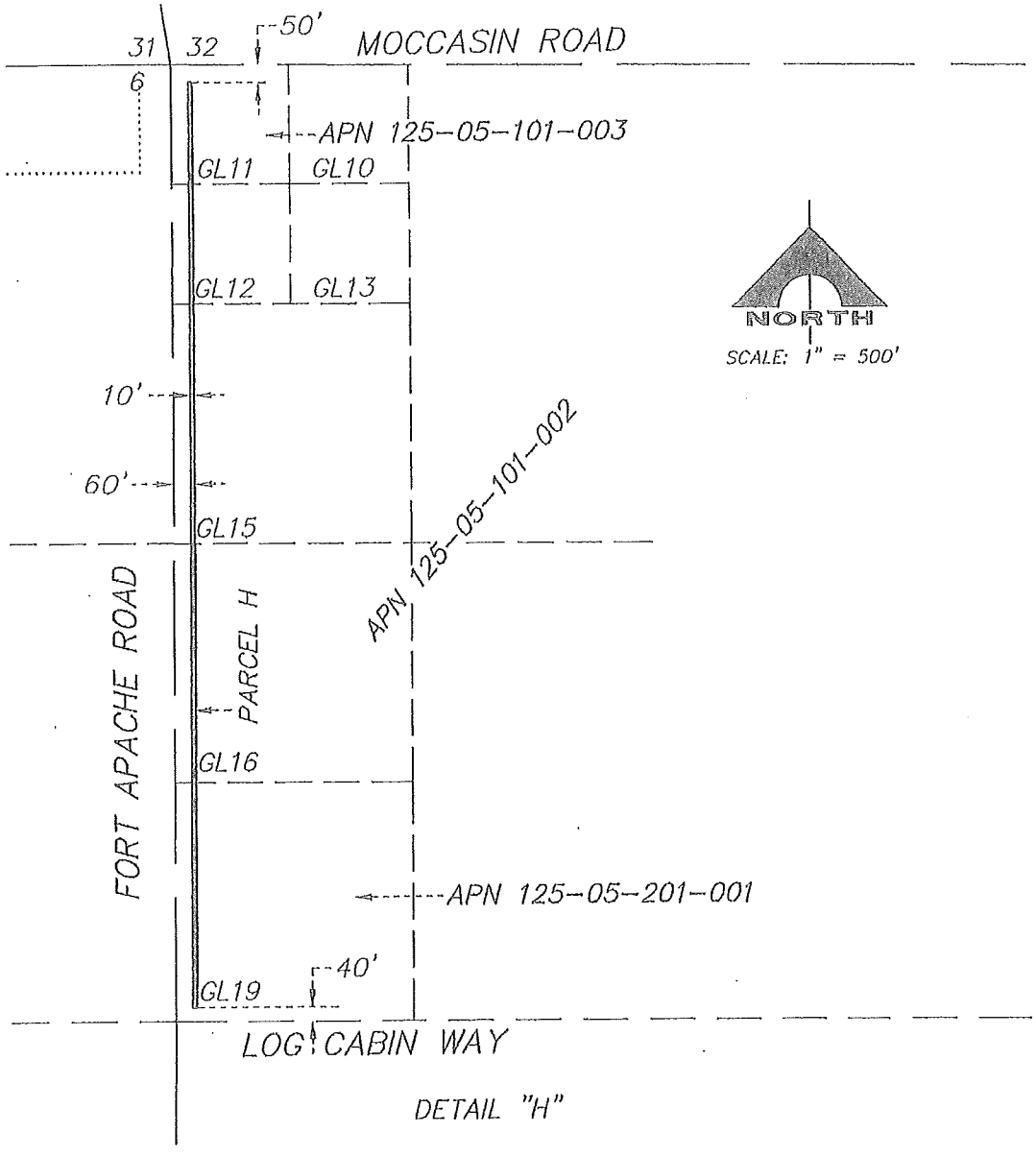
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APN 125-05-101-002 AND 003, AND 125-05-201-001
USA

RIGHT-OF-WAY GRANT FOR ROADWAY, SANITARY SEWER, DRAINAGE AND STREETSCAPE AMENITIES

LYING WITHIN SECTION 5, T. 19 S., R. 60 E., M.D.M., CITY OF ~~NORTH~~ LAS VEGAS, CLARK COUNTY, NEVADA

EXHIBIT "B"



DETAIL "H"

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R: \050(OFFICE)\PROJECTS\784\016\EXHIBITS\KC_P-R&U.DWG

Admin State: NV

Geo State: NV

Serial Number	Casetype	Disposition	Actn Code	Actn Txt	Date	Action Remarks	
NVN 037233	287001	PENDING	124	APLN RECD	10/07/1982		Total Acres = 640.000

LAS VEGAS CITY OF — 100.00000 APPLICANT
400 STEWART AVE — LAS VEGAS — 89101 — NV

MER	Township	Range	Section	Typ	Sur Nr	Suff	Aliquot Part
21	0180S	0600E	033	ALL			ENTIRE SECTION

Serial Number	Casetype	Disposition	Actn Code	Actn Txt	Date	Action Remarks	
NVN 058546	289001	PENDING	124	APLN RECD	03/02/1994		Total Acres = 3.636

LAS VEGAS PAIUTE TRIBE — 100.00000 APPLICANT
#1 PAIUTE DR — LAS VEGAS — 89106 — NV

MER	Township	Range	Section	Typ	Sur Nr	Suff	Aliquot Part
21	0180S	0600E	031	LOTS			1-4;

Serial Number	Casetype	Disposition	Actn Code	Actn Txt	Date	Action Remarks	
NVN 066364	231170	AUTHORIZED	868	EFFECTIVE DATE	10/19/1998		Total Acres = 116,612.410

BLM — 100.00000 HOLDING AGENCY
4701 N TORREY PINES DR — LAS VEGAS — 891302301 — NV

MER	Township	Range	Section	Typ	Sur Nr	Suff	Aliquot Part
21	0180S	0600E	031	ALL			ENTIRE SECTION
21	0180S	0600E	032	ALL			ENTIRE SECTION
21	0180S	0600E	033	ALL			ENTIRE SECTION

-SNPLMA
PL 105-263

Serial Number	Casetype	Disposition	Actn Code	Actn Txt	Date	Action Remarks	
NVN 076653	231145	AUTHORIZED	868	EFFECTIVE DATE	11/06/2002		Total Acres = 23,334.160

BLM — 100.00000 ADMIN MGT ENTITY

-SNPLMA Amendment
PL 107-282

NO WARRANTY IS MADE BY BLM FOR USE OF THE DATA
FOR PURPOSES NOT INTENDED BY BLM

4701 N TORREY PINES DR LAS VEGAS 891302301 NV

MER	Township	Range	Section	Typ	Sur Nr	Suff	Aliquot Part
21	0180S	0600E	031	ALL			ENTIRE SECTION
21	0180S	0600E	032	ALL			ENTIRE SECTION
21	0180S	0600E	033	ALL			ENTIRE SECTION

Serial Number	Casetype	Disposition	Actn Code	Actn Txt	Date	Action Remarks		
NVN 077772	281001	AUTHORIZED	304	AUTH AMENDED/MODIFIED	08/01/2005	502-648;	Total Acres =	1,842.270

LAS VEGAS CITY OF 100.00000 HOLDER
731 S 4TH ST LAS VEGAS 89101 NV

MER	Township	Range	Section	Typ	Sur Nr	Suff	Aliquot Part
21	0180S	0600E	031	RSDL		01	SENESESE,SESWSESE;
21	0180S	0600E	031	RSDL		02	N2SESESE,S2SESESE;
21	0180S	0600E	032	RSDL		01	SENESESE;
21	0180S	0600E	032	RSDL		02	S2S2S2,SWNWSWSW;
21	0180S	0600E	033	RSDL		01	S2S2S2,SWNWSWSW;
21	0180S	0600E	033	RSDL		02	SENESESE;

Serial Number	Casetype	Disposition	Actn Code	Actn Txt	Date	Action Remarks		
NVN 078142	281001	AUTHORIZED	307	ROW GRANTED-ISSUED	08/25/2004		Total Acres =	12.110

LAS VEGAS CITY OF 100.00000 HOLDER
731 S 4TH ST LAS VEGAS 89101 NV

MER	Township	Range	Section	Typ	Sur Nr	Suff	Aliquot Part
21	0180S	0600E	031	RSDL			SESESESE;
21	0180S	0600E	032	RSDL			S2S2S2S2S2;
21	0180S	0600E	033	RSDL			S2S2S2SW;

Serial Number	Casetype	Disposition	Actn Code	Actn Txt	Date	Action Remarks		
NVN 083498	285003	PENDING	124	APLN RECD	05/03/2007		Total Acres =	1.000

NV POWER CO 100.00000 APPLICANT
PO BOX 98910 LAS VEGAS 89151 NV

MER	Township	Range	Section	Typ	Sur Nr	Suff	Aliquot Part

NO WARRANTY IS MADE BY BLM FOR USE OF THE DATA
FOR PURPOSES NOT INTENDED BY BLM

21	0180S	0600E	031	ALIQ	E2;

Serial Number	Casetype	Disposition	Actn Code	Actn Txt	Date	Action Remarks	
NVN 083499	285003	PENDING	124	APLN RECD	05/03/2007		Total Acres = 1.000

NV POWER CO — 100.00000 APPLICANT
PO BOX 98910 — LAS VEGAS — 89151 — NV

MER	Township	Range	Section	Typ	Sur Nr	Suff	Aliquot Part
21	0180S	0600E	031	ALIQ			E2;

Serial Number	Casetype	Disposition	Actn Code	Actn Txt	Date	Action Remarks	
NVN 083860	281001	AUTHORIZED	307	ROW GRANTED-ISSUED	12/27/2007		Total Acres = 35.080

LAS VEGAS CITY OF — 100.00000 HOLDER
731 S 4TH ST — LAS VEGAS — 89101 — NV

MER	Township	Range	Section	Typ	Sur Nr	Suff	Aliquot Part
21	0180S	0600E	031	ALIQ			S2SESW,S2S2SE;
21	0180S	0600E	031	LOTS			4;
21	0180S	0600E	032	ALIQ			SWSW;

Serial Number	Casetype	Disposition	Actn Code	Actn Txt	Date	Action Remarks	
NVN 090360	283103	PENDING	124	APLN RECD	09/09/2011	50 MW	Total Acres = 579.000

HIDDEN HILLS. LLC — 100.00000 APPLICANT
657 MISSION ST STE 504 — SAN FRANCISCO — 941054118 — CA

MER	Township	Range	Section	Typ	Sur Nr	Suff	Aliquot Part
21	0180S	0600E	031	ALIQ			W2NE,SENE;

Serial Number	Casetype	Disposition	Actn Code	Actn Txt	Date	Action Remarks	
NVN 0055903	285002	AUTHORIZED	304	AUTH AMENDED/MODIFIED	11/01/2011	/C/	Total Acres = 68.190

NV POWER CO — 100.00000 HOLDER/BILLEE
PO BOX 98910 — LAS VEGAS — 89151 — NV

MER	Township	Range	Section	Typ	Sur Nr	Suff	Aliquot Part
21	0180S	0600E	031	ALIQ		01	SWNE,NENW,NESE;

NO WARRANTY IS MADE BY BLM FOR USE OF THE DATA
FOR PURPOSES NOT INTENDED BY BLM

21	0180S	0600E	031	ALIQ	02	SENE;
21	0180S	0600E	031	MNR	01	NWNWNE;
21	0180S	0600E	031	MNR	02	SWNWNE;
21	0180S	0600E	032	ALIQ		SWSW;

NO WARRANTY IS MADE BY BLM FOR USE OF THE DATA
FOR PURPOSES NOT INTENDED BY BLM

Admin State: NV

Geo State: NV

Serial Number	Casetype	Disposition	Actn Code	Actn Txt	Date	Action Remarks		
NVN 006820	285002	AUTHORIZED	307	ROW GRANTED-ISSUED	09/13/1972		Total Acres =	0.312

NV POWER CO — 100.00000 HOLDER/BILLEE
PO BOX 98910 — LAS VEGAS — 89151 — NV

MER	Township	Range	Section	Typ	Sur Nr	Suff	Aliquot Part
21	0190S	0600E	005	LOTS			5;

Serial Number	Casetype	Disposition	Actn Code	Actn Txt	Date	Action Remarks		
NVN 036876	240006	AUTHORIZED	868	EFFECTIVE DATE	10/23/1985	CLASSIFIED;	Total Acres =	1,041.330

LAS VEGAS CITY OF — 100.00000 LESSEE
400 STEWART AVE — LAS VEGAS — 89101 — NV

MER	Township	Range	Section	Typ	Sur Nr	Suff	Aliquot Part
21	0190S	0600E	004	LOTS			5-7;

Serial Number	Casetype	Disposition	Actn Code	Actn Txt	Date	Action Remarks		
NVN 037125	240006	AUTHORIZED	868	EFFECTIVE DATE	04/06/1984		Total Acres =	147.450

LAS VEGAS CITY OF — 100.00000 LESSEE
400 STEWART AVE — LAS VEGAS — 89101 — NV

MER	Township	Range	Section	Typ	Sur Nr	Suff	Aliquot Part
21	0190S	0600E	005	LOTS			5,8-10,13-19;

Serial Number	Casetype	Disposition	Actn Code	Actn Txt	Date	Action Remarks		
NVN 03712501	291200	AUTHORIZED	242	LEASE RENEWED	08/17/2010		Total Acres =	5.000

LAS VEGAS CITY OF — 100.00000 LESSEE
400 STEWART AVE — LAS VEGAS — 89101 — NV

MER	Township	Range	Section	Typ	Sur Nr	Suff	Aliquot Part

NO WARRANTY IS MADE BY BLM FOR USE OF THE DATA
FOR PURPOSES NOT INTENDED BY BLM

21 0190S 0600E 005 FF S2 OF 19;

Serial Number	Casetype	Disposition	Actn Code	Actn Txt	Date	Action Remarks	
NVN 042592	285003	AUTHORIZED	304	AUTH AMENDED/MODIFIED	05/08/2006	503-1.989;	Total Acres = 121.627

NV POWER CO — 100.00000 HOLDER/BILLEE
PO BOX 98910 — LAS VEGAS — 89151 NV

MER	Township	Range	Section	Typ	Sur Nr	Suff	Aliquot Part
21	0190S	0600E	004	LOTS			3,4;
21	0190S	0600E	005	LOTS			5,9-11;

Serial Number	Casetype	Disposition	Actn Code	Actn Txt	Date	Action Remarks	
NVN 053584	287001	AUTHORIZED	304	AUTH AMENDED/MODIFIED	09/27/1993	/A/	Total Acres = 480.010

CITY OF NORTH LAS VEGAS — 100.00000 HOLDER
2200 CIVIC CENTER DR — N LAS VEGAS — 890306307 NV

MER	Township	Range	Section	Typ	Sur Nr	Suff	Aliquot Part
21	0190S	0600E	004	LOTS			5,6;

Serial Number	Casetype	Disposition	Actn Code	Actn Txt	Date	Action Remarks	
NVN 054351	286207	AUTHORIZED	304	AUTH AMENDED/MODIFIED	05/08/2006	503-2.980;	Total Acres = 72.734

AF — 100.00000 HOLDER
5870 DEVLIN DR BLDG 595 — NELLIS AFB — 89191 NV

MER	Township	Range	Section	Typ	Sur Nr	Suff	Aliquot Part
21	0190S	0600E	004	LOTS			5,6;
21	0190S	0600E	005	LOTS			5,6;

Serial Number	Casetype	Disposition	Actn Code	Actn Txt	Date	Action Remarks	
NVN 057773FD	220100	AUTHORIZED	868	EFFECTIVE DATE	06/18/1994		Total Acres = 1,774.070

BLM — 100.00000 ADMIN MGT ENTITY
4701 N TORREY PINES DR — LAS VEGAS — 891302301 NV

MER	Township	Range	Section	Typ	Sur Nr	Suff	Aliquot Part
21	0190S	0600E	005	LOTS			5-8;

NO WARRANTY IS MADE BY BLM FOR USE OF THE DATA
FOR PURPOSES NOT INTENDED BY BLM

Serial Number	Casetype	Disposition	Actn Code	Actn Txt	Date	Action Remarks	
NVN 066364	231170	AUTHORIZED	868	EFFECTIVE DATE	10/19/1998		Total Acres = 116,612.410

BLM — 100.00000 HOLDING AGENCY
4701 N TORREY PINES DR — LAS VEGAS — 891302301 — NV

MER	Township	Range	Section	Typ	Sur Nr	Suff	Aliquot Part
21	0190S	0600E	004	LOTS			5-7;
21	0190S	0600E	005	LOTS			5,8-19;

Serial Number	Casetype	Disposition	Actn Code	Actn Txt	Date	Action Remarks	
NVN 075025	285003	AUTHORIZED	304	AUTH AMENDED/MODIFIED	12/29/2008	502 - 5280;	Total Acres = 705.900

NV POWER CO — 100.00000 HOLDER/BILLEE
PO BOX 98910 — LAS VEGAS — 89151 — NV

MER	Township	Range	Section	Typ	Sur Nr	Suff	Aliquot Part
21	0190S	0600E	004	LOTS			3-6;
21	0190S	0600E	005	LOTS			5,9-11;

Serial Number	Casetype	Disposition	Actn Code	Actn Txt	Date	Action Remarks	
NVN 075060	286203	AUTHORIZED	304	AUTH AMENDED/MODIFIED	12/29/2008	503 - 1;	Total Acres = 34.530

NV POWER CO — 100.00000 HOLDER/BILLEE
PO BOX 98910 — LAS VEGAS — 89151 — NV

MER	Township	Range	Section	Typ	Sur Nr	Suff	Aliquot Part
21	0190S	0600E	004	LOTS			3-6;
21	0190S	0600E	005	LOTS			5,9-11;

Serial Number	Casetype	Disposition	Actn Code	Actn Txt	Date	Action Remarks	
NVN 075757	281001	AUTHORIZED	304	AUTH AMENDED/MODIFIED	07/14/2009	/F/502+1301.75;	Total Acres = 62.379

LAS VEGAS CITY OF — 100.00000 HOLDER
731 S 4TH ST — LAS VEGAS — 89101 — NV

MER	Township	Range	Section	Typ	Sur Nr	Suff	Aliquot Part
21	0190S	0600E	005	LOTS			11,12,15,16,19;

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Serial Number	Casetype	Disposition	Actn Code	Actn Txt	Date	Action Remarks		
NVN 076118	287001	AUTHORIZED	307	ROW GRANTED-ISSUED	05/11/2006		Total Acres =	2.380

LAS VEGAS CITY OF — 100.00000 HOLDER
731 S 4TH ST — LAS VEGAS — 89101 — NV

MER	Township	Range	Section	Typ	Sur Nr	Suff	Aliquot Part
21	0190S	0600E	005	LOTS			8,18,19;

Serial Number	Casetype	Disposition	Actn Code	Actn Txt	Date	Action Remarks		
NVN 076432	286203	AUTHORIZED	304	AUTH AMENDED/MODIFIED	07/16/2008	/D/	Total Acres =	48.550

NV POWER CO — 100.00000 HOLDER/BILLEE
PO BOX 98910 — LAS VEGAS — 89151 — NV

MER	Township	Range	Section	Typ	Sur Nr	Suff	Aliquot Part
21	0190S	0600E	004	LOTS			5,6;
21	0190S	0600E	005	LOTS			5,9-11;

Serial Number	Casetype	Disposition	Actn Code	Actn Txt	Date	Action Remarks		
NVN 077372	240050	PENDING	387	CASE ESTABLISHED	02/27/2006		Total Acres =	102.435

CITY OF LAS VEGAS — 100.00000 ADMIN MGT ENTITY
731 S 4TH ST — LAS VEGAS — 891016706 — NV

MER	Township	Range	Section	Typ	Sur Nr	Suff	Aliquot Part
21	0190S	0600E	005	ALIQ			SWNWNENW;
21	0190S	0600E	005	LOTS			9-13;

Serial Number	Casetype	Disposition	Actn Code	Actn Txt	Date	Action Remarks		
NVN 077772	281001	AUTHORIZED	304	AUTH AMENDED/MODIFIED	08/01/2005	502-648;	Total Acres =	1,842.270

LAS VEGAS CITY OF — 100.00000 HOLDER
731 S 4TH ST — LAS VEGAS — 89101 — NV

MER	Township	Range	Section	Typ	Sur Nr	Suff	Aliquot Part
21	0190S	0600E	004	RSDL			NENENENE,NWNWNWNW;
21	0190S	0600E	005	LOTS			11;

NO WARRANTY IS MADE BY BLM FOR USE OF THE DATA
FOR PURPOSES NOT INTENDED BY BLM

MER	Township	Range	Section	Typ	Sur Nr	Suff	Aliquot Part
21	0190S	0600E	005	RSDL			NENENENE;

Serial Number	Casetype	Disposition	Actn Code	Actn Txt	Date	Action Remarks		
NVN 078142	281001	AUTHORIZED	307	ROW GRANTED-ISSUED	08/25/2004		Total Acres =	12.110

LAS VEGAS CITY OF — 100.00000 HOLDER
731 S 4TH ST — LAS VEGAS — 89101 — NV

MER	Township	Range	Section	Typ	Sur Nr	Suff	Aliquot Part
21	0190S	0600E	005	RSDL			N2N2N2NW;

Serial Number	Casetype	Disposition	Actn Code	Actn Txt	Date	Action Remarks		
NVN 082353	240006	AUTHORIZED	868	EFFECTIVE DATE	12/16/2007	CLASSIFIED;	Total Acres =	2.500

LAS VEGAS CITY OF — 100.00000 LESSEE
400 STEWART AVE — LAS VEGAS — 89101 — NV

MER	Township	Range	Section	Typ	Sur Nr	Suff	Aliquot Part
21	0190S	0600E	005	RSDL			NWSESWNW;

Serial Number	Casetype	Disposition	Actn Code	Actn Txt	Date	Action Remarks		
NVN 08235301	291200	AUTHORIZED	237	LEASE ISSUED	01/10/2008		Total Acres =	2.500

LAS VEGAS CITY OF — 100.00000 LESSEE
400 STEWART AVE — LAS VEGAS — 89101 — NV

MER	Township	Range	Section	Typ	Sur Nr	Suff	Aliquot Part
21	0190S	0600E	005	RSDL			NWSESWNW;

Serial Number	Casetype	Disposition	Actn Code	Actn Txt	Date	Action Remarks		
NVN 083258	285003	AUTHORIZED	307	ROW GRANTED-ISSUED	01/30/2008		Total Acres =	0.530

NV POWER CO — 100.00000 HOLDER/BILLEE
PO BOX 98910 — LAS VEGAS — 89151 — NV

MER	Township	Range	Section	Typ	Sur Nr	Suff	Aliquot Part
21	0190S	0600E	005	LOTS			11,12,15,16,;

NO WARRANTY IS MADE BY BLM FOR USE OF THE DATA
FOR PURPOSES NOT INTENDED BY BLM

Serial Number	Casetype	Disposition	Actn Code	Actn Txt	Date	Action Remarks	
NVN 083329	285003	AUTHORIZED	307	ROW GRANTED-ISSUED	01/30/2008		Total Acres = 5.220

NV POWER CO — 100.00000 HOLDER/BILLEE
PO BOX 98910 — LAS VEGAS — 89151 — NV

MER	Township	Range	Section	Typ	Sur Nr	Suff	Aliquot Part
21	0190S	0600E	005	LOTS			11,12,15,16;

Serial Number	Casetype	Disposition	Actn Code	Actn Txt	Date	Action Remarks	
NVN 083329O1	285003	AUTHORIZED	308	ROW RENEWED	12/31/2009		Total Acres = 0.230

NV POWER CO — 100.00000 HOLDER/BILLEE
PO BOX 98910 — LAS VEGAS — 89151 — NV

MER	Township	Range	Section	Typ	Sur Nr	Suff	Aliquot Part
21	0190S	0600E	005	LOTS			12;

Serial Number	Casetype	Disposition	Actn Code	Actn Txt	Date	Action Remarks	
NVN 089765	240006	PENDING	124	APLN RECD	05/11/2011		Total Acres = 40.000

CLARK CNTY SCHOOL DIST — 100.00000 APPLICANT
4190 MCLEOD DR FLOOR 2 — LAS VEGAS — 891214454 — NV

MER	Township	Range	Section	Typ	Sur Nr	Suff	Aliquot Part
21	0190S	0600E	005	LOTS			14,15;

Serial Number	Casetype	Disposition	Actn Code	Actn Txt	Date	Action Remarks	
NVN 089765O1	291200	PENDING	124	APLN RECD	05/11/2011		Total Acres = 40.000

CLARK CNTY SCHOOL DIST — 100.00000 APPLICANT
4190 MCLEOD DR FLOOR 2 — LAS VEGAS — 891214454 — NV

MER	Township	Range	Section	Typ	Sur Nr	Suff	Aliquot Part
21	0190S	0600E	005	LOTS			14,15;
21	0190S	0600E	005	LOTS			16,17;

NO WARRANTY IS MADE BY BLM FOR USE OF THE DATA
FOR PURPOSES NOT INTENDED BY BLM

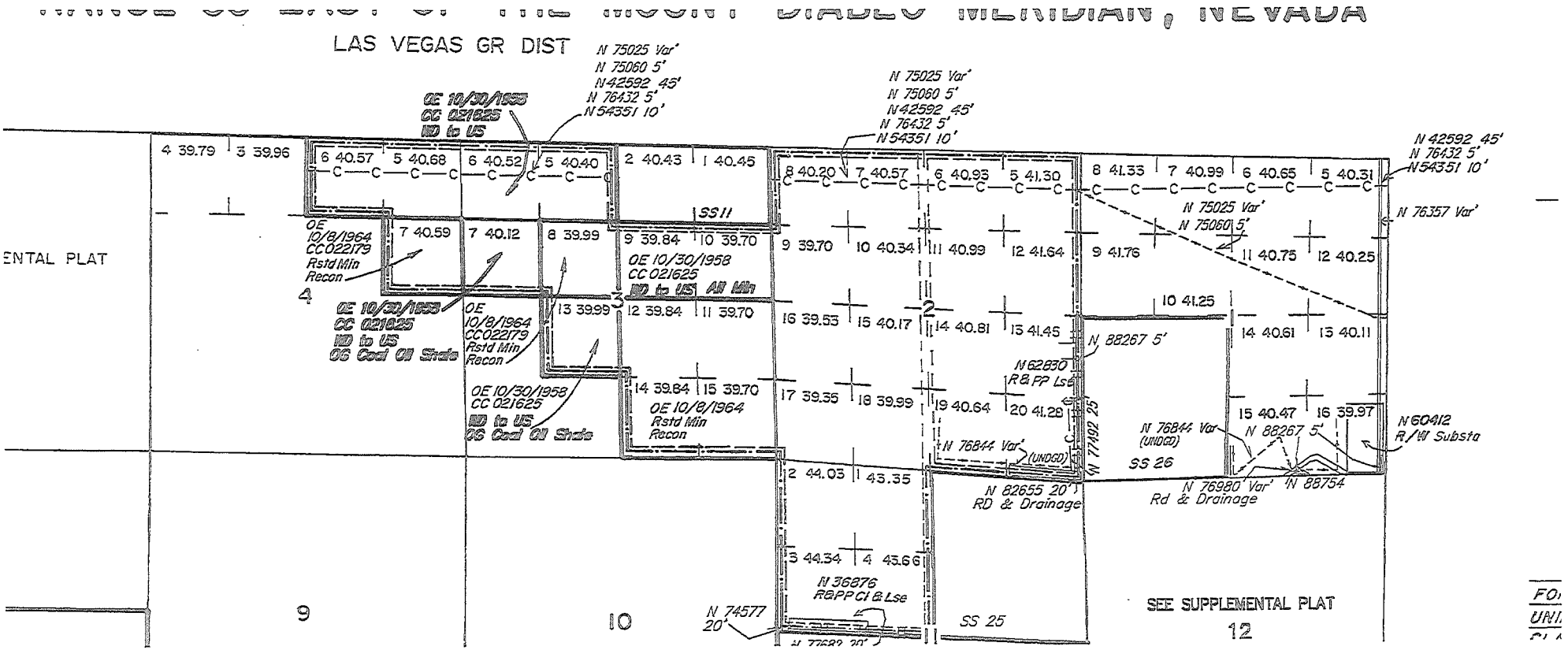
Serial Number	Casetype	Disposition	Actn Code	Actn Txt	Date	Action Remarks	
NVN 0055903	285002	AUTHORIZED	304	AUTH AMENDED/MODIFIED	11/01/2011	/C/	Total Acres = 68.190

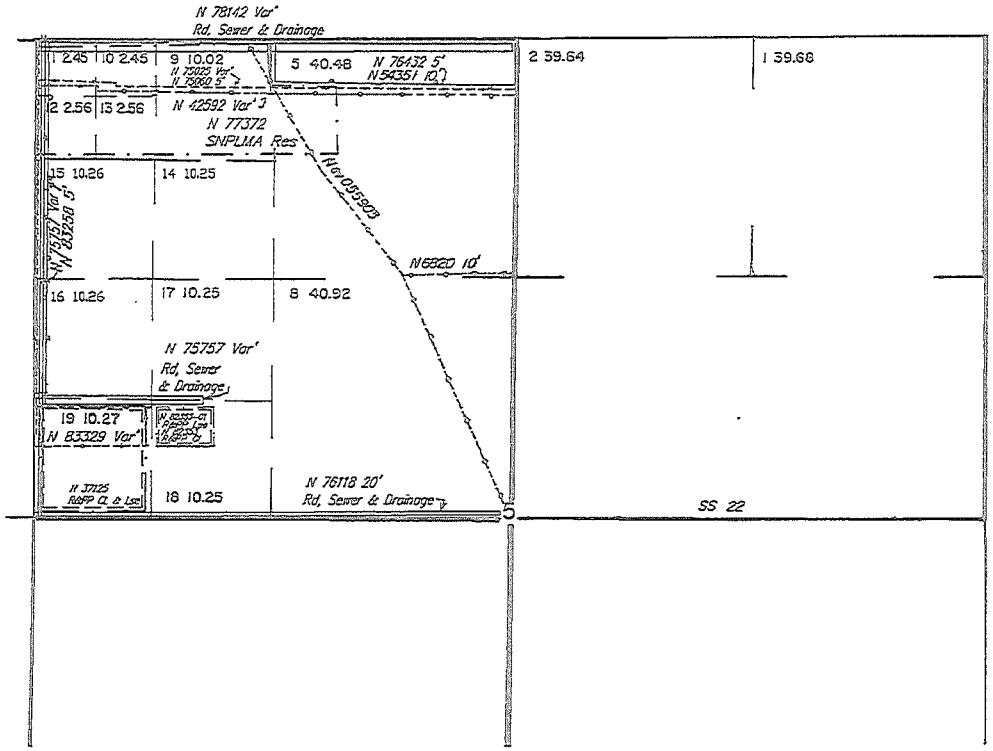
NV POWER CO 100.00000 HOLDER/BILLEE

PO BOX 98910 LAS VEGAS 89151 NV

MER	Township	Range	Section	Tvp	Sur Nr	Suff	Aliquot Part
21	0190S	0600E	005	LOTS			5,6,8;

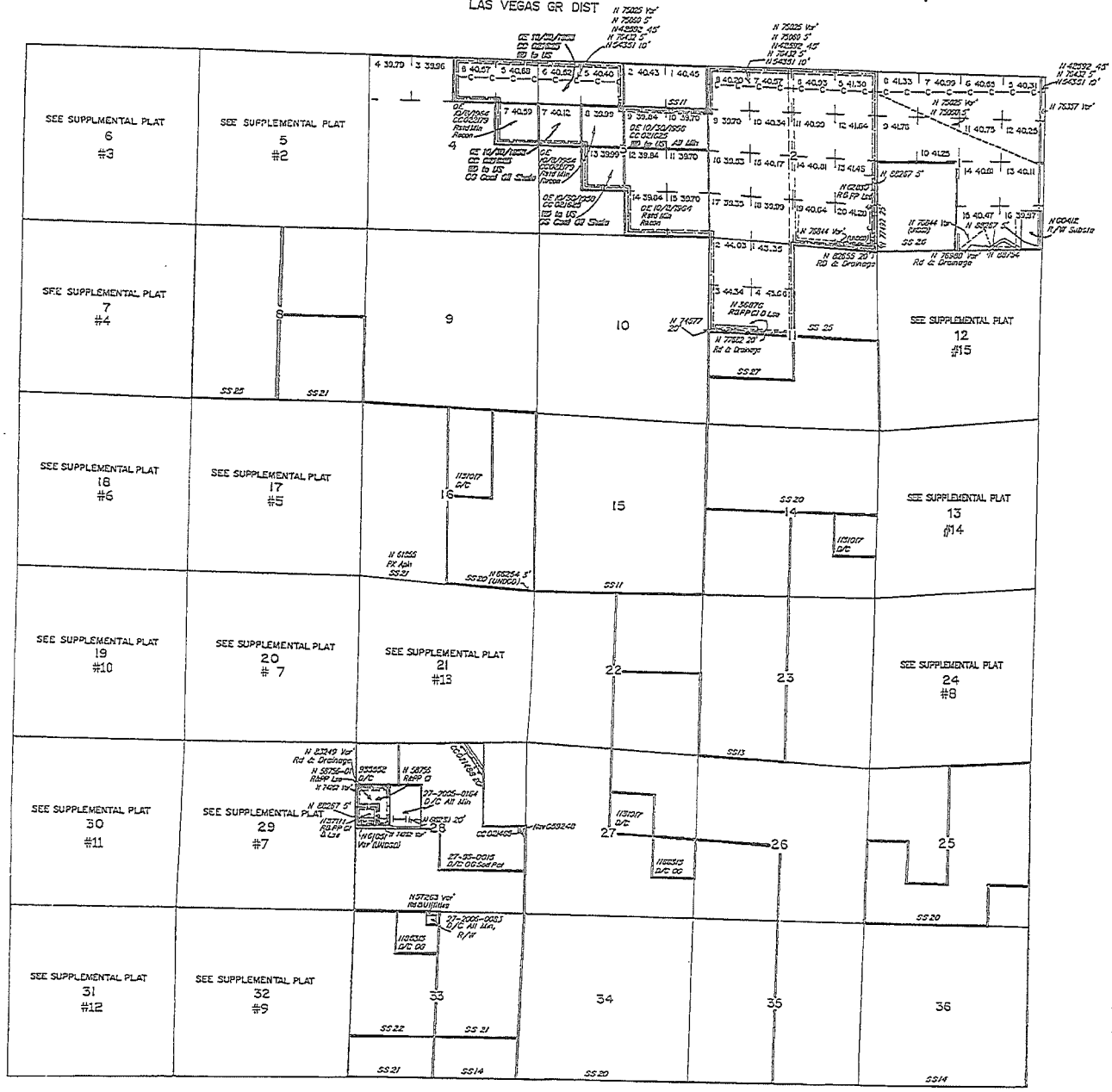
NO WARRANTY IS MADE BY BLM FOR USE OF THE DATA
FOR PURPOSES NOT INTENDED BY BLM


LAS VEGAS GR DIST
ENTAL PLAT
4 39.79 3 39.96
6 40.57 5 40.68 6 40.52 5 40.40 2 40.43 1 40.45
8 40.20 7 40.57 6 40.93 5 41.30
8 41.33 7 40.99 6 40.65 5 40.31
N 75025 Var'
N 75060 5'
N 42592 45'
N 76432 5'
N 54351 10'
OE 10/30/1958
CC 021625
MD to US
SS 11
OE 10/8/1964
CC022179
Rstd Min
Recon
7 40.59 7 40.12 8 39.99 9 39.84 10 39.70
9 39.70 10 40.34 11 40.99 12 41.64
9 41.76 11 40.75 12 40.25
N 76357 Var'
4
3
2
OE 10/30/1958
CC 021625
MD to US
OG Coal Oil Shale
13 39.99 12 39.84 11 39.70
16 39.53 15 40.17 14 40.81 13 41.45
10 41.25
14 40.61 13 40.11
N 88267 5'
N 62830
R & PP Lse
14 39.84 15 39.70
17 39.35 18 39.99 19 40.64 20 41.28
15 40.47 16 39.97
N 60412
R/W Substa
N 76844 Var'
(UNDED)
N 77192 25'
SS 26
2 44.03 1 43.35
N 82655 20'
RD & Drainage
N 76980 Var'
Rd & Drainage
N 88754
3 44.34 4 43.66
N 36876
R&PP Cl & Lse
SS 25
SEE SUPPLEMENTAL PLAT
9
10
12
N 74577
20'


N 78142 Var'
Rd, Sewer & Drainage
2.45
10 2.45
9 10.02
N 75925 Var'
N 75860 5'
5 40.48
N 76432 5'
N 54351 10'
2 39.64
1 39.68
2 2.56
13 2.56
N 42592 Var'
N 77372
SNPLMA Res
15 10.26
14 10.25
N 75757 Var'
N 83260 5'
N 66820 10'
16 10.26
17 10.25
8 40.92
N 75757 Var'
Rd, Sewer
& Drainage
19 10.27
N 83329 Var'
N 37125
RAPP Ct. & Lsn
18 10.25
N 76118 20'
Rd, Sewer & Drainage
SS 22

TOWNSHIP 19 SOUTH RANGE 60 EAST OF THE MOUNT DIABLO MERIDIAN, NEVADA

LAS VEGAS GR DIST



SCALE

10 5 0 10 20 30 60

30 chains to the inch

WARNING STATEMENT

This plat is the Bureau's representation of the Record of Title and should be used only as a graphic display of the township survey data. Records hereon do not reflect title changes which may have been been effected by lateral movements of rivers or other bodies of water. Refer to the cadastral surveys for official survey information.

STATUS OF PUBLIC DOMAIN LAND AND MINERAL TITLES

MT PLAT

INDEX TO SEGREGATED TRACTS				
RESURVEY	ORIGINAL SURVEY			
TRACT NO.	T.	R.	SEC.	SUBDIVISION

FOR ORDERS EFFECTING DISPOSAL OR USE OF UNIDENTIFIED LANDS WITHDRAWN FOR CLASSIFICATION, MINERALS, WATER AND/OR OTHER PUBLIC PURPOSES, REFER TO INDEX OF MISCELLANEOUS DOCUMENTS.

Ner 059248 R/W Hwy affects Sec 28 NE1/4SE1/4

N 37252 R/W Wa Detention Basin, M/T
Sec 28: SW2 NE1/4SE1/4, SW2 NW2 NE1/4SE1/4

Certain lands in Sec 6, 18-20, 29-32 are affected by unrecorded public dedications for roads and utilities due to previous small tract CL. See the historical index for specific lands affected by small tract CL

N 24599 Civil Action CV-LV-79-84 filed 6/26/1979
Sec 3: NE1/4

NDL W/I Las Vegas city limits
Sec 11: NW1/4

N 31608 Annexations to the City of Las Vegas 1987, 1988
Sec 9: NW1/4NE1/4NE1/4

N 46063 R/W Hwy ("Var")
Sec 28: E1/2NE1/4SE1/4, NW1/4NE1/4, NE1/4NW1/4, W/I

N 37057 RGPP Lse & CI
Sec 5: Lot 6.

N 29832 R/W A/Rd 0 Storer Lines
Sec 3: Lots 5-8, 11, 12, 14, 15, W/I

N 53554 Storm Wa Detention Basin, Diversion Dikes & Wa Reser
Sec 1: Lots 5-16
Sec 3: Lots 5-6
Sec 4: Lots 5-6

N 57577 RGPP CI & Lse
Sec 33: NE1/4NE1/4NE1/4NW1/4

N 60042 R/W Telephone & Electronic Distribution Line (UNDCD)
Sec 33: NE1/4 NE1/4 NE1/4 NW1/4, W/I

CURRENT TO	BY
6/5/07	MS
6/20/08	SLL
12/12/08	SLL
1/5/09	MS
8/27/10	MS
3/23/11	MS
5/23/11	MS

N-050
T. 19S
R. 60E