DS #: 4600.1

APN: 137-01-101-001 ? More

PROJECT: Peaceful Ridge Residential Development - Ph 3
Update #1

SUBMITTAL: 5th

SCANNED BY/DATE:

CHECKED BY/DATE:

CITY OF LAS VEGAS
NEVADA

CITY OF LAS VEGAS INTER-OFFICE MEMORANDUM				DATE: November 26, 2013
TO: **Land Development Services** Department of Public Works				FROM: Albert Sung, P.E. Flood Control Project Engineer Department of Public Works
SUBJECT:	Drainage Study for: **Peaceful Ridge Residential Development – Phase 3 Update #1**			**COPIES TO:** Taney Engineering
Cross Streets:	SEC of Puli Road & Lone Mountain Blvd.			THM Enterprises, LLC
File Number:	F:\Depot\DSMemos\DS4600E.doc			Bart Anderson, P.E., DevCo
Parcel Number:	137-01-101-001 & more			CCRFCD
Zoning Action:	TMP-48840; SDR-47610; VAR-47609; VAR-47607 & MOD-47606			CCPW
FEMA Flood Zone	YES	NO **X**		BLM
Proposed Storm Drain	YES **X**	NO		

HISTORY	DATE RECEIVED	DATE REVIEWED	COMMENTS	REVIEW FEES	FEES PAID Payment Trn #
1st Submittal	5/9/2013	5/23/2013	Not Approved	$400.00	319303: $400
2nd Submittal	7/4/2013	7/18/2013	Not Approved	$400.00	325317: $400
3rd Submittal	8/12/2013	8/29/2013	Not Approved	$400.00	329342: $400
4th Submittal	9/18/2013	10/2/2013	Conditional Approval	$400.00	333602: $400
5th Submittal	11/4/2013	11/26/2013	See Comments Below	$100.00	338364: $100
			TOTAL FEES (LDDRS):	**$1,700.00**	**----**

REMARKS:

5th Submittal: Update #1 to address the southern half of the master development (south of *Stange Avenue*) as an independent development by a different builder

The 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 Public Works Department concurrence.

1. As the subject phase becomes a separate project under a different builder, (ie, separate master HOA in the future) the maintenance responsibility of a particular storm drain will be in question. This storm drain locates along the northern boundary in the adjacent development.

   In order to clear up future maintenance liability, re-route the storm drain in *Restless Wind Street* through *Diamond Castle Lane* and tie to an existing storm drain in *Kersee Street* for discharge.

   It is understood that the existing system in *Kersee Street* will be surcharged by the re-routed flow, provide bubbler(s) in *Kersee Street* accordingly. Submit hydraulic calculations and revise all pertinent plans, plan and profile sheets and details in the next addendum.

Rob H. to justify dual pipe not feasible. – 12/10/13

2. This drainage study update is base on the stated storm drain in Comment #1 for major flood protection. No building permit of any kinds will be issued for the subject development prior to the completion of such storm drain system in the adjacent property. Otherwise, an interim swale or drainage channel must be constructed along the northern boundary of the subject development for major flood protection. A drainage study update will be required to address the interim drainage condition. Bond for interim protection.

3. The project proposes to build drainage facilities west of the subject development. Prior to final plan approval the developer must complete a maintenance and liability agreement for the proposed drainage improvements and post a minimum maintenance bond of $25,000 or 25-percent of the construction cost for the improvements, whichever is greater. The engineer must submit an estimate of the quantities for constructing the facilities and an exhibit that adequately shows the location and limits of the drainage facilities to *Flood Control* for approval. Once the drainage study is conditionally approved, the engineer should contact the *City's Land Development Section* (229-6371) to begin the agreement process.

   In order for the maintenance bond to be released in the future, a drainage update/letter will be required to justify that the offsite facilities are no longer necessary and can be removed.

4. Provide an overall sheet (24"x36") to identify all public drainage easements (privately maintained) to be granted and recorded in each phase of developments prior to the final approval of the technical drainage study.

5. **Repeat condition**: The project proposes a 30'-Trail corridor along the *Puli* alignment within the *Bureau of Land Management* (BLM) jurisdiction adjacent to the west of the subject development. Offsite gradings, flood control facilities and a varied width of public drainage easements are also proposed within the BLM land. Obtain grant from BLM for the proposed public drainage easement (privately maintained by the HOA) prior to the final approval of the subject drainage study.

6. Add a note in all pertinent sheets for the construction of all storm drain drop inlets per a newly adopted USDCCA Drawing No. 421 (*Stormwater Quality Management Stamp and Sign Detail*).

NOTE: 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
ays

T/R/S: T20S/R59E/01
AREA K-01

****
*** FAX TX REPORT ***
****

TRANSMISSION OK

JOB NO.	2605
DESTINATION ADDRESS	3625233
PSWD/SUBADDRESS	
DESTINATION ID	
ST. TIME	11/26 15:17
USAGE T	01'58
PGS.	2
RESULT	OK

CITY OF LAS VEGAS **INTER-OFFICE MEMORANDUM**			**DATE:** **November 26, 2013**
TO: **Land Development Services** Department of Public Works			**FROM:** Albert Sung, P.E. Flood Control Project Engineer Department of Public Works
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TANEY ENGINEERING

UPDATE #1 TO THE TECHNICAL DRAINAGE STUDY

FOR

Peaceful Ridge

Residential Development

CITY OF LAS VEGAS
NEVADA

November 2013

Prepared by:
Taney Engineering
6030 S. Jones, Suite #100
Las Vegas, Nevada 89118
Telephone: (702) 362-8844
Fax: (702) 362-5233

Prepared for:
THM Enterprises, LLC
10655 Park Run Dr., Ste. 230
Las Vegas, NV 89144
Telephone: (702) 257-1188
Fax: (702) 257-1672

TANEY ENGINEERING

UPDATE #1 TO THE TECHNICAL DRAINAGE STUDY

FOR

Peaceful Ridge

Residential Development

CITY OF LAS VEGAS
NEVADA

November 2013

PROFESSIONAL ENGINEER-STATE OF NEVADA
ROBERT D. HANSEN
Exp. 6-30-15
CIVIL
No. 21527

11/1/13

Prepared by:
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6030 S. Jones, Suite #100
Las Vegas, Nevada 89118
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HYDROLOGIC CRITERIA AND DRAINAGE MANUAL

DRAINAGE STUDY INFORMATION FORM

Name of Development: Peaceful Ridge Residential Development Date: Nov 1, 2013

Location of Development: a) Descriptive (Cross Streets) North/South: Kersee St

East/West: Stange Ave

b) Section: 1 Township: 20S Range: 59E

c) APN : 137-01-101-001, 009, 010, 011; 137-01-201-001, 002, 003, 011, 012; 137-01-301-001 and 002

Name of Owner: THM Enterprises, LLC

Telephone No.: 702-257-1188 Fax No.: 702-257-1672 E-Mail Address: Brad Boe (brad@TouchstoneLiving.com)

Address: 10655 Park Run Drive, #230, Las Vegas, NV 89144

Contact Person-Name: Rob Hansen, P.E. **Telephone No.:** (702) 362-8844

* **E-Mail Address:** robh@taneycorp.com **Fax No.:** (702) 362-5233

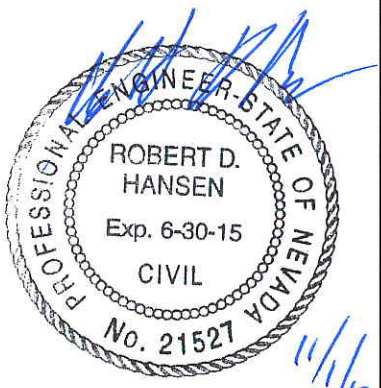
Firm: Taney Engineering

Address: 6030 S. Jones, Suite 100, Las Vegas NV. 89118

Type of Land Development/Land Disturbance Process:

☐	Rezoning	☒	Subdivision Map	☐	Clearing and Grading Only
☐	Parcel Map	☐	Planned Unit Development	☐	Other (Please specify below)
☐	Large Parcel Map	☐	Building Permit		

1. Total Owned Land Area: At Site: 55+/- acres Being Developed/Disturbed: 55+/- acres
2. Is a portion or all of the subject property located in a designated 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
5. Approximate upstream land area which drains to the subject site: 217+/- acres
6. Has the site drainage been evaluated in the past? ☒ **YES** ☐ **NO** If yes, please identify documentation: DS4600 Peaceful Ridge TDS
7. If known, please briefly identify the proposed discharge point(s) of runoff from the site: The site will discharge to the east at multiple existing locations; matching historic drainage patterns.
8. Briefly describe your proposed schedule for the subject project: A.S.A.P



Engineer's Seal

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.

***New Required Field**

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

Revision	Date

Local Entity File No.

REFERENCE:

STANDARD FORM 1

TANEY ENGINEERING
6030 SOUTH JONES BLVD, SUITE 100
LAS VEGAS, NV 89118
TELEPHONE: 702-362-8844
Fax: 702-362-5233

November 1, 2013
Job No. AST-12-002

Albert Sung, P.E.
Flood Control
City of Las Vegas Public Works
333 N. Rancho Drive
Las Vegas, NV 89106

Subject: Update #1 to the Technical Drainage Study Update for Peaceful Ridge Residential Development – DS4600

Dear Mr. Sung:

Taney Engineering is pleased to provide one (1) hard copy and (1) digital copy of Update #1 to the Technical Drainage Study for **Peaceful Ridge Residential Development**. This update addresses changes to the project phasing. Overall drainage patterns are not being changed. The onsite improvement for Phase 3 will remain the same as the approved drainage study.

The developer is planning on selling the southern portion of the site (south of the Stang alignment) to another developer. Therefore the new developer has requested the ability to prepare and process their improvement plans independently from the rest of the project. The intent of both developers is still to install the storm drain and grade the entire site at once (Phase 2). In the event that this can't happen the south may move ahead of the rest of the project. The portion of the project south of the Stang alignment is now called Phase 3.

Since Phase 3 improvements may occur prior to Phase 2 all drainage infrastructure associated with Phase 3 could be installed with Phase 3. The Phase 3 improvement plans have been revised to reflect this change. A meeting was held with Denis Moyer and other City of Las Vegas staff to discuss this change in project phasing. A copy of a summary email is provided in the Appendix.

Interim Improvements

In the event that Phase 3 is constructed before Phase 2 interim swales have been provided to protect the northern portion of Phase 3. Refer to Figure 16 for the Phase 3 Interim Drainage map. Runoff from XOF9 will be directed to the Phase 1 temporary channel north of the Pump House. Cross section AR has been updated with the increased flow rate. The Pump House will remain protected with the increased flow rate. The combination of basins XOF9-1 and DON4-1 quantify the flow in the interim swale north of Phase 3. Runoff from basins XOF9-1 and DON4-1 were determined using the area-ratio method. Hydraulic section AS provides hydraulic calculations and demonstrates Phase 3 will be protected in the interim condition.

If you need any additional information, please do not hesitate to call our office.

Sincerely,
TANEY ENGINEERING

Rob Hansen, PE, CFM

Rob Hansen

From: Michael Cunningham
Sent: Friday, November 01, 2013 11:33 AM
To: Rob Hansen
Subject: Peaceful Ridge Meeting with CLV

Rob,

Myself, Rick Barron from THM Enterprises and Jeff Armstrong from Ryland meet with City of Las Vegas to discuss the new phasing plan. The following people were present from City of Las Vegas:

- Dennis Moyer
- Doug Rankin
- Alan Reiki
- Bart Anderson
- Lucien Paet

We discussed that the southern portion of the site would be designed to follow its own path. This is due to the fact that THM is selling that portion to a home builder. The new owner would like the ability to prepare and process their improvement plans independently from the rest of the project. The intention is to still install the storm drain and grade the entire site at once. In the event this can't happen the south may move ahead of the rest of the project. We need to prepare an hydrology study update that shows the south moving forward on its own. Let me know if you have any questions.

Michael Cunningham, P.E.
Taney Engineering
6030 South Jones Blvd #100
Las Vegas, NV 89118
Phone: 702-362-8844
Fax:702-362-5233
www.taneycorp.com

APPENDICES

APPENDIX A

Interim Phase 3 Drainage Map

APPENDIX B

Hydraulic Calculations

APPENDIX C

Reference Material

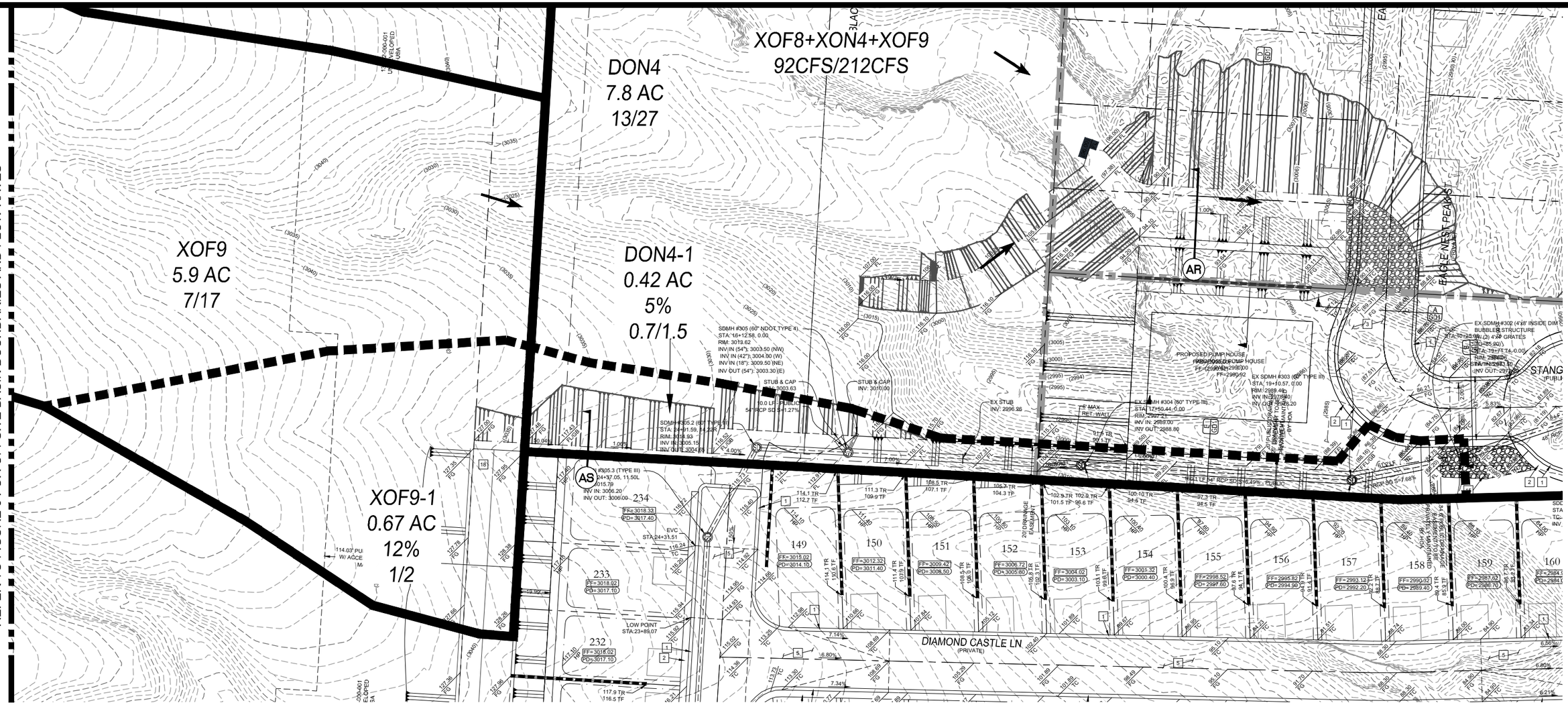
APPENDIX D

Improvement Plans

APPENDIX A

Interim Phase 3 Drainage Map

REFER TO FIGURE 6 FOR OFFSITE BASIN BOUNDARIES AND FLOW RATES



Cross Section	Description	Q (cfs)	Depth (ft)	Velocity (ft/s)	DxV
AR	XOF8+XON4+XOF9	212	1.53	6.59	10.08
AS	XOF9-1 + DON4-1	3.5	0.49	2.29	1.12

DRAINAGE LEGEND	
XOF1	BASIN IDENTIFICATION
	BASIN BOUNDARY
C1	CONCENTRATION POINT
	FLOW PATH
A	CROSS SECTION
XX/XXX	10-YR/100-YR FLOW (CFS)
(XX/XXX)	REFERENCE FLOW (CFS)

60 0 30 60 120

(IN FEET)
1 inch = 60 ft.

TANEY ENGINEERING
6030 S. JONES BLVD STE#100
LAS VEGAS, NV 89118
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FIGURE 16
PHASE 3 INTERIM DRAINAGE
PEACEFUL RIDGE

APPENDIX B

Hydraulic Calculations

Worksheet for AR

Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

Input Data

Roughness Coefficient	0.025	
Channel Slope	1.00000	%
Left Side Slope	4.00	ft/ft (H:V)
Right Side Slope	4.00	ft/ft (H:V)
Bottom Width	15.00	ft
Discharge	212.00	ft^3/s

Results

Normal Depth	1.53	ft
Flow Area	32.18	ft^2
Wetted Perimeter	27.58	ft
Hydraulic Radius	1.17	ft
Top Width	27.20	ft
Critical Depth	1.58	ft
Critical Slope	0.00868	ft/ft
Velocity	6.59	ft/s
Velocity Head	0.67	ft
Specific Energy	2.20	ft
Froude Number	1.07	
Flow Type	Supercritical	

GVF Input Data

Downstream Depth	0.00	ft
Length	0.00	ft
Number Of Steps	0	

GVF Output Data

Upstream Depth	0.00	ft
Profile Description		
Profile Headloss	0.00	ft
Downstream Velocity	Infinity	ft/s
Upstream Velocity	Infinity	ft/s
Normal Depth	1.53	ft
Critical Depth	1.58	ft
Channel Slope	1.00000	%

Worksheet for AR

GVF Output Data

Critical Slope	0.00868	ft/ft

Cross Section for AR

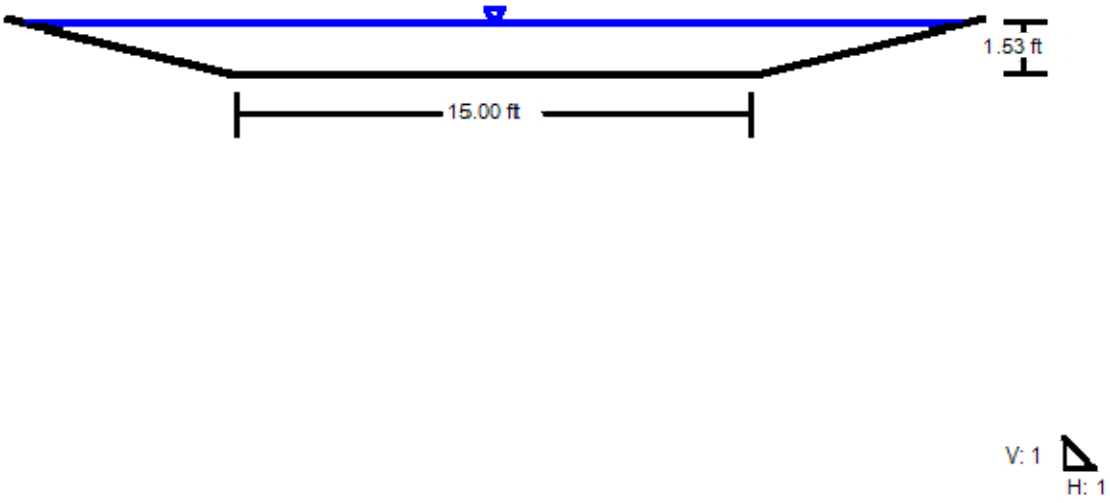
Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

Input Data

Roughness Coefficient	0.025	
Channel Slope	1.00000	%
Normal Depth	1.53	ft
Left Side Slope	4.00	ft/ft (H:V)
Right Side Slope	4.00	ft/ft (H:V)
Bottom Width	15.00	ft
Discharge	212.00	ft³/s

Cross Section Image



Worksheet for AS

Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

Input Data

Channel Slope	1.00000	%
Discharge	3.50	ft³/s

Section Definitions

Station (ft)	Elevation (ft)
0+00	0.50
0+05	0.00
0+14	3.00

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00, 0.50)	(0+14, 3.00)	0.025

Options

Current Roughness Weighted Method	Pavlovskii's Method
Open Channel Weighting Method	Pavlovskii's Method
Closed Channel Weighting Method	Pavlovskii's Method

Results

Normal Depth	0.49	ft
Elevation Range	0.00 to 3.00 ft	
Flow Area	1.53	ft²
Wetted Perimeter	6.41	ft
Hydraulic Radius	0.24	ft
Top Width	6.31	ft
Normal Depth	0.49	ft
Critical Depth	0.45	ft
Critical Slope	0.01532	ft/ft
Velocity	2.29	ft/s

Worksheet for AS

Results

Velocity Head		0.08	ft
Specific Energy		0.57	ft
Froude Number		0.82	
Flow Type	Subcritical		

GVF Input Data

Downstream Depth	0.00	ft
Length	0.00	ft
Number Of Steps	0	

GVF Output Data

Upstream Depth	0.00	ft
Profile Description		
Profile Headloss	0.00	ft
Downstream Velocity	Infinity	ft/s
Upstream Velocity	Infinity	ft/s
Normal Depth	0.49	ft
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Critical Slope	0.01532	ft/ft

Cross Section for AS

Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

Input Data

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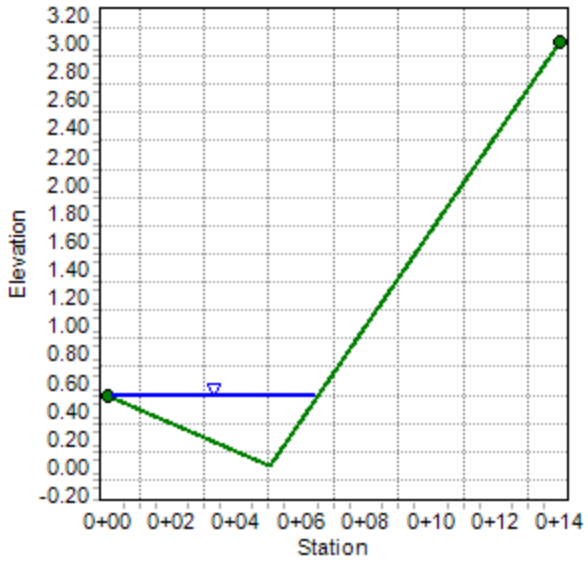
Normal Depth	0.49	ft
Discharge	3.50	ft³/s

Cross Section Image



APPENDIX C

Reference Material

CITY OF LAS VEGAS INTER-OFFICE MEMORANDUM			DATE: October 2, 2013
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3. **Repeat condition**: The project proposes a 30'-Trail corridor along the *Puli* alignment within the *Bureau of Land Management* (BLM) jurisdiction adjacent to the west of the subject development. Offsite gradings, flood control facilities and a varied width of public drainage easements are also proposed within the BLM land. Obtain permission from BLM prior to the final approval of the subject drainage study.

4. **Repeat condition**: **This 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.

5. **Repeat condition**: The site is also adjacent to the jurisdiction of the *County of Clark* to the west. Obtain concurrence from the *Clark County Public Works Department* (CCPW) prior to the final approval of the drainage study.

The following comments pertain to the Phase 1 Plans:

6. Provide a note on the grading plan: "**All Interim Flood Control Facilities are Privately Owned and to be Privately Maintained by the Developer**".

The following comments pertain to the Phase 2 Plans:

7. **Sheet GD1**: The following comments apply to all other phases.
   - **Sections M, N, Q and U**: Clearly specify the typical and minimum depth of the swale to be "6"-Min."
   - **Sections O and P**: Clearly specify the solid grout portion of the wall to be "8"-CMU".

The following comments are repeated until they are complete:

8. Add a note in all pertinent sheets for the construction of all storm drain drop inlets per a newly adopted USDCCA Drawing No. 421 (*Stormwater Quality Management Stamp and Sign Detail*).

NOTE: 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
ays

T/R/S: T20S/R59E/01
AREA K-01

REFER TO FIGURE 6 FOR OFFSITE BASIN BOUNDARIES AND FLOW RATES

BLACK GLACIER RIDGE CT (PRIVATE)

XOF8+XON4
85CFS/195CFS

XOF9
7CFS/17CFS

PUMP HOUSE
PAD=2990.00
FF=2990.92

EAGLE NEST PEAK ST (PRIVATE)

STANGE AVE (PUBLIC)

SDMH #304 (60" TYPE III)
STA: 17+50.44, 0.00
RIM: 2992.21
INV IN: 2989.00
INV OUT: 2988.80

SDMH #303 (60" TYPE III)
STA: 19+10.57, 0.00
RIM: 2989.46
INV IN: 2978.40
INV OUT: 2978.20

SDMH #302 (4'x8' INSIDE DIM BUBBLER STRUCTURE W/ (2) 4'x4' GRATES
TC=85.20)
STA: 19+71.74, 0.00
RIM: 2986.06
INV IN: 2973.50
INV OUT: 2973.20

SDMH #301 (60" TYPE III)
STA: 20+92.54, 0.00
RIM: 2978.50
INV IN: 2969.40
INV OUT: 2969.20

SDMH #400 (60" 48" EX.)
STA: 17+26.15, 6.67L
RIM: 2978.09
INV OUT: 2970.43
INV IN: 2970.43
INV IN: 2970.93

SDMH #300 (60" EX)
STA: 20+99.90, 6.00L
RIM: 2977.72
INV IN: 2968.91
INV IN: 2969.41
INV OUT: 2968.91

50 0 25 50 100

(IN FEET)
1 inch = 50 ft.

Cross Section	Description	Q (cfs)	Depth (ft)	Velocity (ft/s)	DxV
AQ	XOF9	17	1.17	6.22	7.28
AR	XOF8+XON4	195	1.49	6.42	9.57

DRAINAGE LEGEND

XOF1	BASIN IDENTIFICATION
	BASIN BOUNDARY
C1	CONCENTRATION POINT
	FLOW PATH
A	CROSS SECTION
XX/XXX	10-YR/100-YR FLOW (CFS)
(XX/XXX)	REFERENCE FLOW (CFS)

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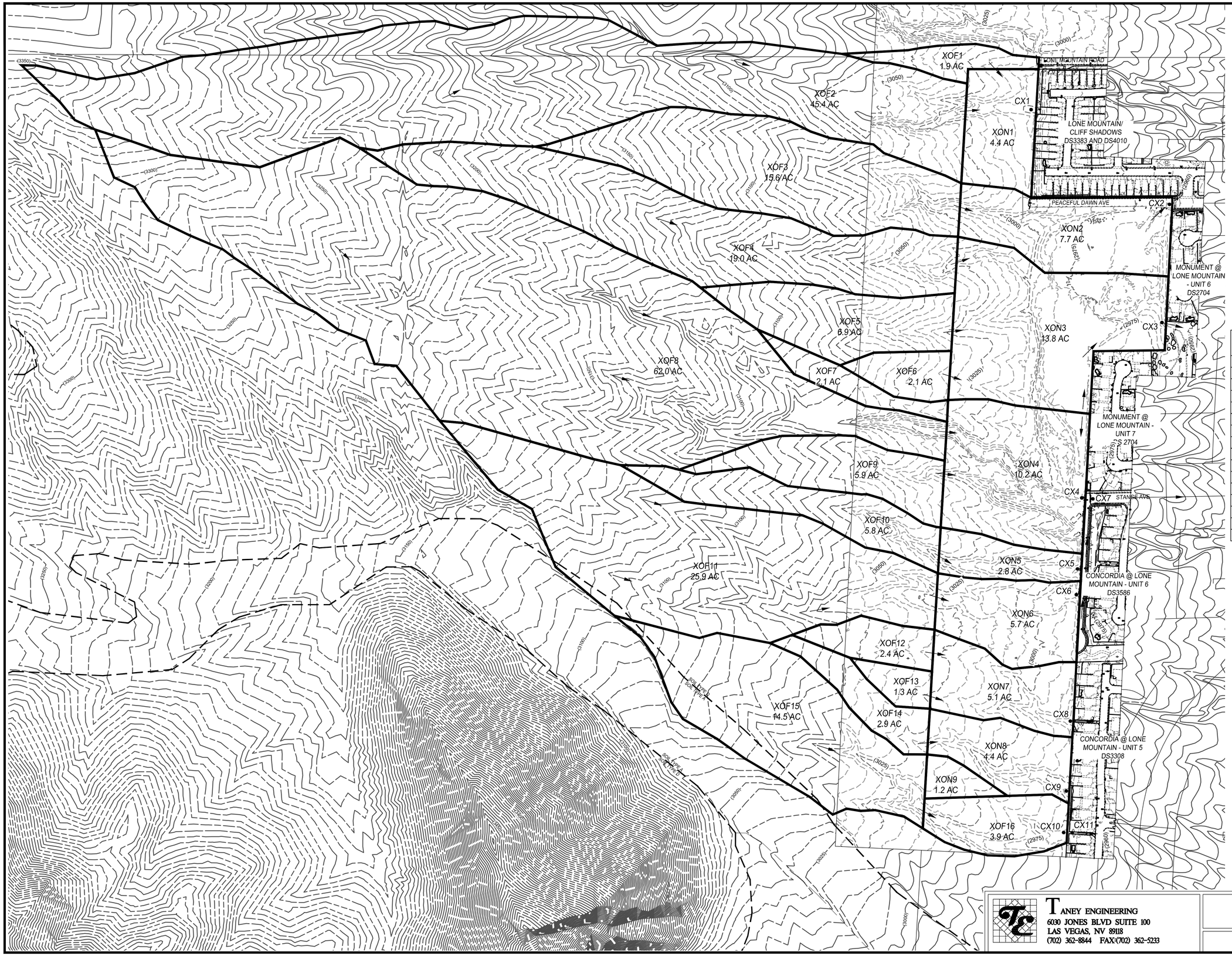
FIGURE 15
PHASE 1 INTERIM DRAINAGE
PEACEFUL RIDGE



Basin	Q_{10} (cfs)	Q_{100} (cfs)	Basin	Q_{10} (cfs)	Q_{100} (cfs)	Basin	Q_{10} (cfs)	Q_{100} (cfs)
XOF1	2	6	XON1	5	13	CX1	60	139
XOF2	53	122	XON2	5	13	CX2	25	58
XOF3	19	45	XON3	17	40	CX3	51	119
XOF4	23	53	XON4	13	29	CX4	94	216
XOF5	9	20	XON5	4	8	CX5	11	25
XOF6	3	6	XON5	4	8	CX6	34	79
XOF7	3	6	XON7	6	15	CX7	138	318
XOF8	72	166	XON8	5	13	CX8	11	26
XOF9	7	17	XON9	2	4	CX9	9	21
XOF10	7	17				CX10	20	49
XOF11	31	71				CX11	29	69
XOF12	3	7						
XOF13	2	4						
XOF14	4	8						
XOF15	14	35						
XOF16	5	11						

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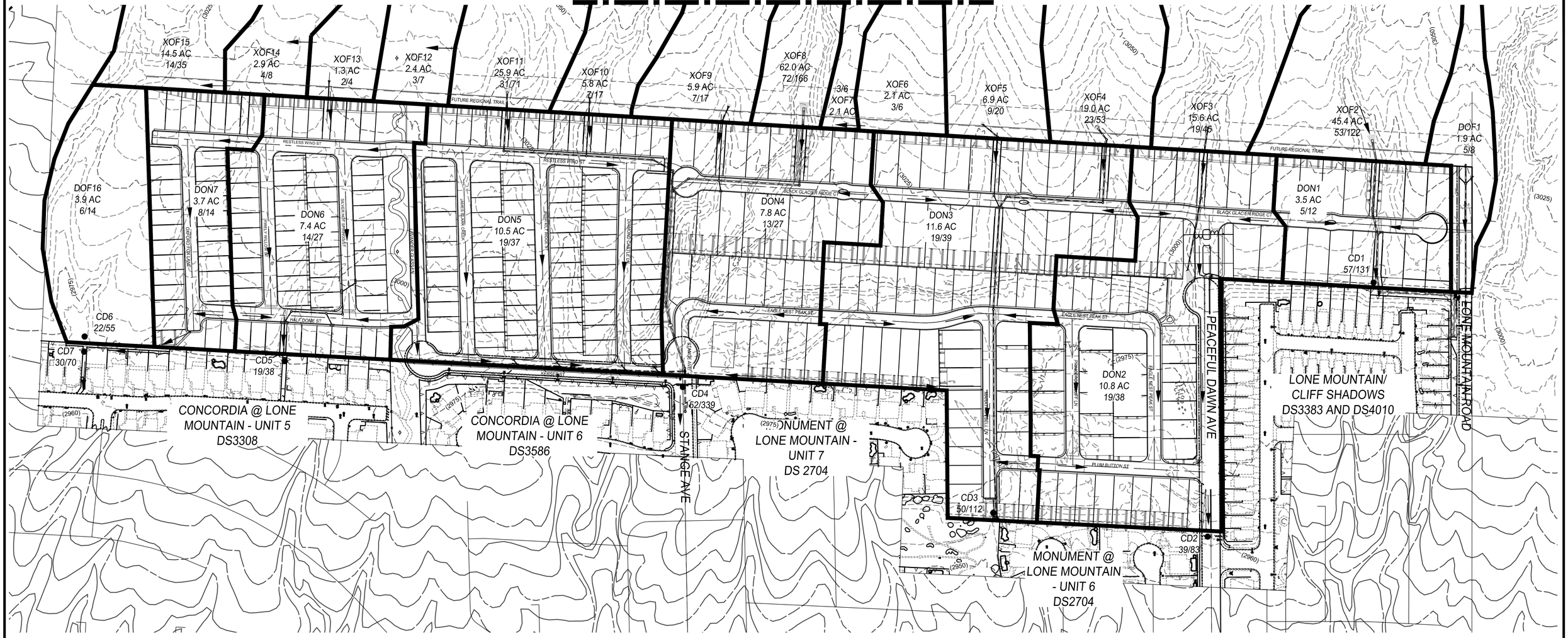
FIGURE 6
EXISTING BASIN MAP
PEACEFUL RIDGE

SEE FIGURE 6 FOR CONTINUATION



Basin	Q_{10} (cfs)	Q_{100} (cfs)	Basin	Q_{10} (cfs)	Q_{100} (cfs)	Basin	Q_{10} (cfs)	Q_{100} (cfs)
XOF2	53	122	DOF1	5	8	CD1	57	131
XOF3	19	45	DOF16	6	14	CD2	39	83
XOF4	23	53	DON1	5	12	CD3	50	112
XOF5	9	20	DON2	19	38	CD4	152	339
XOF6	3	6	DON3	19	39	CD5	19	38
XOF7	3	6	DON4	13	27	CD6	22	55
XOF8	72	166	DON5	19	37	CD7	30	70
XOF9	7	17	DON6	14	27			
XOF10	7	17	DON7	8	14			
XOF11	31	71						
XOF12	3	7						
XOF13	2	4						
XOF14	4	8						
XOF15	14	35						

GRAPHIC SCALE

120 0 60 120 240 480

(IN FEET)
1 inch = 120 ft.
CONTOUR INTERVAL 5'

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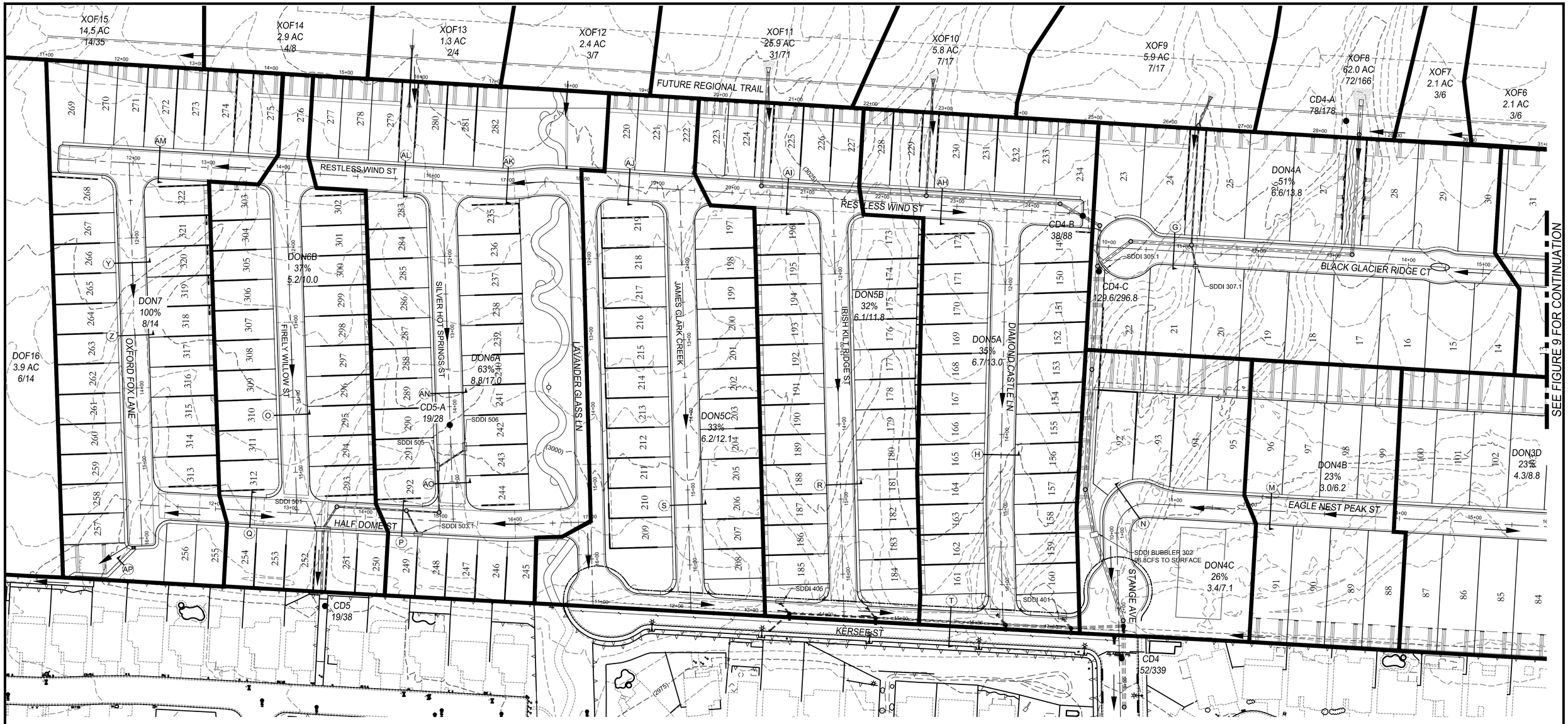
FIGURE 7
ULTIMATE BASIN MAP
PEACEFUL RIDGE



Cross Section Summary

Section	Street	Type	Basin	Flow* (cfs)	Slope* (%)	Depth (ft)	Velocity (ft/s)	DxV
A	Black Glacier	Cross Slope	DON1A	5	4.0%	0.34	4.35	1.48
B	Black Glacier	Cross Slope	DON1B	7	0.5%	0.50	2.13	1.07
C	Black Glacier	Cross Slope	DON2A	6	1.0%	0.43	2.67	1.15
D	Black Glacier	Cross Slope	DON2B	5	3.0%	0.36	3.90	1.40
E	Black Glacier	Cross Slope	DON3A	9	0.5%	0.53	2.24	1.19
F	Black Glacier	Cross Slope	DON3B	8	0.5%	0.52	2.18	1.13
G	Black Glacier	Cross Slope	See Note 1	10	0.5%	0.55	2.30	1.27
H	Diamond Castle	Standard	DON5A	13	6.5%	0.35	5.59	1.96
I	Eagle Nest Peak	Standard	DON2C	16	5.0%	0.38	5.28	2.01
J	Eagle Nest Peak	Standard	DON2C	16	5.5%	0.37	5.49	2.03
K	Eagle Nest Peak	Cross Slope	1/2 DON3C	8	1.0%	0.47	2.86	1.34
L	Eagle Nest Peak	Cross Slope	DON3D	9	0.5%	0.53	2.24	1.19
M	Eagle Nest Peak	Cross Slope	DON4B	7	0.5%	0.50	2.13	1.07
N	Eagle Nest Peak	Cross Slope	4B & 4C	14	5.5%	0.43	6.25	2.69
O	Firefly Willow	Standard	DON6B	10	8.0%	0.32	5.71	1.83
P	Half Dome	Cross Slope	See Note 2	14	2.5%	0.48	4.63	2.22
Q	Half Dome	Cross Slope	DON6B	10	3.0%	0.43	4.58	1.97
R	Irish Kilt Ridge	Standard	DON5B	12	7.0%	0.34	5.64	1.92
S	James Clark Creek	Standard	DON5C	13	6.5%	0.35	5.59	1.96
T	Kersee	51' R/W	DON5	37	1.4%	0.57	3.87	2.21
--	Lavender Glass	N/A	High Point	N/A	N/A	N/A	N/A	N/A
U	Lone Mountain	80' R/W	DOF1	8	2.3%	0.42	3.93	1.65
V	Lone Mountain	80' R/W	DOF1	8	10.0%	0.35	6.90	2.42
W	Marathon Bell	Standard	3C & 3D	23	5.5%	0.41	5.97	2.45
X	Marathon Bell	Standard	3C & 3D	23	0.5%	0.56	2.51	1.41

Cross Section Summary

Section	Street	Type	Basin	Flow* (cfs)	Slope* (%)	Depth (ft)	Velocity (ft/s)	DxV
Y	Oxford Fox	Cross Slope	DON7	14	8.0%	0.41	7.22	2.96
Z	Oxford Fox	Cross Slope	DON7	14	4.0%	0.45	5.54	2.49
AA	Peaceful Dawn	60' R/W	CD2-A	55.1	8.0%	0.49	8.48	4.16
AB	Peaceful Dawn	60' R/W	CD2-A	55.1	4.5%	0.54	6.53	3.53
AC	Peaceful Dawn	60' R/W	CD2	83	8.0%	0.56	8.88	4.97
AD	Plum Button	Cross Slope	DON2D	13	1.5%	0.51	3.71	1.89
AE	Plum Button	Cross Slope	See Note 3	28	0.5%	0.75	2.95	2.21
AF	Princeton Bluff	Standard	DON2D	13	5.5%	0.35	5.23	1.83
AG	Princeton Bluff	Standard	DON2D	13	1.5%	0.42	3.18	1.34
AH	Restless Wind	Cross Slope	DON5A	13	2.0%	0.49	4.18	2.05
AI	Restless Wind	Cross Slope	DON5B	12	2.0%	0.48	4.10	1.97
AJ	Restless Wind	Cross Slope	DON5C	13	1.0%	0.54	3.19	1.72
AK	Restless Wind	Cross Slope	XOF12	7	4.5%	0.37	4.93	1.82
AL	Restless Wind	Cross Slope	XOF13	4	0.5%	0.43	1.86	0.80
AM	Restless Wind	Cross Slope	DON7	14	4.5%	0.44	5.80	2.55
AN	Silver Hot Springs	Standard	CD5-A	28	7.0%	0.42	6.86	2.88
AO	Silver Hot Springs	Standard	Note 2	16	7.0%	0.36	6.02	2.17
AP	4' Flume east of Lot 257		DON7	14	7.0%	0.41	9.82	4.03

*For typical onsite streets the flow has been rounded to the next highest whole number. The slope has been rounded down to the nearest half percent. This produces worst case depth.

Note 1 - DON4A - SDDI 307.1

Note 2 - XOF12 + XOF13 + DON6A - SDDI 505 - SDDI 506 = 7+4+17-6-6 = 14cfs

Note 3 - DON2C + DON2D = 28cfs

Note 4 - CD4 - 300 Series SD flow = 339 - 212 = 127cfs

Strom Drain Drop Inlet Summary

Drop Inlet	Flow Reference	Drop Inlet Type	Flow Intercepted (cfs)	By-pass Flow (cfs)	Depth (ft)
103.1	DON1	7.5' CM Sump	12	N/A	0.62
201B	DON3C & DON3D	25' CM Sump	23	N/A	0.62
204	DON3A	15' CM Sump	16	N/A	0.61
305.1	DON4A - SDDI 307.1	10' CM Sump	9.8	N/A	0.52
307.1	2/3 DON4A	5' CM On-Grade	4	5	0.54
401	Kersee Half Street Capacity	10' CM On-Grade	6.5	8.5	0.46
405	DON5C	10' CM On-Grade	5.5	6.6	0.41
501	CD5- SDDI 503.1, 505 & 506	20' CM Sump	18	N/A	0.58
503.1	CD5-A - SDDI 505 & 506	10' CM On-Grade	8	8	0.5
505 & 506	1/2 CD5-A	10' CM On-Grade	6	8	0.35

Sub-Basin	Area (ac)	% of basin	Q_{10} (cfs)	Q_{100} (cfs)
DON1A	1.46	41%	2.1	5.0
DON2A	2.07	59%	2.9	7.0
DON2A	1.70	16%	3.0	6.0
DON2B	1.17	11%	2.1	4.1
DON2C	4.47	42%	7.9	15.8
DON2D	3.44	32%	6.1	12.1
DON3A	2.46	21%	4.0	8.3
DON3B	2.30	20%	3.8	7.7
DON3C	4.23	36%	6.9	14.2
DON3D	2.61	23%	4.3	8.8
DON4A	3.85	51%	6.6	13.8
DON4B	1.72	23%	3.0	6.2
DON4C	1.97	26%	3.4	7.1
DON5A	3.71	35%	6.7	13.0
DON5B	3.36	32%	6.1	11.8
DON5C	3.45	33%	6.2	12.1
DON6A	4.66	63%	8.8	17.0
DON6B	2.75	37%	5.2	10.0
DON7	3.69	100%	8.0	14.0

Basin	Q_{10} (cfs)	Q_{100} (cfs)
XOF2	53	122
XOF3	19	45
XOF4	23	53
XOF5	9	20
XOF6	3	6
XOF7	3	6
XOF8	72	166
XOF9	7	17
XOF10	7	17
XOF11	31	71
XOF12	3	7
XOF13	2	4
XOF14	4	8
XOF15	14	35

Basin	Q_{10} (cfs)	Q_{100} (cfs)
DOF1	5	8
DOF16	6	14
DON1	5	12
DON2	19	38
DON3	19	39
DON4	13	27
DON5	19	37
DON6	14	27
DON7	8	14

Basin	Q_{10} (cfs)	Q_{100} (cfs)
CD1	57	131
CD2	39	83
CD3	50	112
CD4	152	339
CD5	19	38
CD6	22	55
CD7	30	70

GRAPHIC SCALE

60 0 30 60 120 240

(IN FEET)
1 inch = 60 ft.

CONTOUR INTERVAL 5'

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FIGURE 8
ULT. SUB-BASIN MAP 1
PEACEFUL RIDGE

Section	Street	Type	Basin	Flow* (cfs)	Slope* (%)	Depth (ft)	Velocity (ft/s)	DxV
A	Black Glacier	Cross Slope	DON1A	5	4.0%	0.34	4.35	1.48
B	Black Glacier	Cross Slope	DON1B	7	0.5%	0.50	2.13	1.07
C	Black Glacier	Cross Slope	DON2A	6	1.0%	0.43	2.67	1.15
D	Black Glacier	Cross Slope	DON2B	5	3.0%	0.36	3.90	1.40
E	Black Glacier	Cross Slope	DON3A	9	0.5%	0.53	2.24	1.19
F	Black Glacier	Cross Slope	DON3B	8	0.5%	0.52	2.18	1.13
G	Black Glacier	Cross Slope	See Note 1	10	0.5%	0.55	2.30	1.27
H	Diamond Castle	Standard	DON5A	13	6.5%	0.35	5.59	1.96
I	Eagle Nest Peak	Standard	DON2C	16	5.0%	0.38	5.28	2.01
J	Eagle Nest Peak	Standard	DON2C	16	5.5%	0.37	5.49	2.03
K	Eagle Nest Peak	Cross Slope	1/2 DON3C	8	1.0%	0.47	2.86	1.34
L	Eagle Nest Peak	Cross Slope	DON3D	9	0.5%	0.53	2.24	1.19
M	Eagle Nest Peak	Cross Slope	DON4B	7	0.5%	0.50	2.13	1.07
N	Eagle Nest Peak	Cross Slope	4B & 4C	14	5.5%	0.43	6.25	2.69
O	Firefly Willow	Standard	DON6B	10	8.0%	0.32	5.71	1.83
P	Half Dome	Cross Slope	See Note 2	14	2.5%	0.48	4.63	2.22
Q	Half Dome	Cross Slope	DON6B	10	3.0%	0.43	4.58	1.97
R	Irish Kilt Ridge	Standard	DON5B	12	7.0%	0.34	5.64	1.92
S	James Clark Creek	Standard	DON5C	13	6.5%	0.35	5.59	1.96
T	Kersee	51' R/W	DON5	37	1.4%	0.57	3.87	2.21
--	Lavender Glass	N/A	High Point	N/A	N/A	N/A	N/A	N/A
U	Lone Mountain	80' R/W	DOF1	8	2.3%	0.42	3.93	1.65
V	Lone Mountain	80' R/W	DOF1	8	10.0%	0.35	6.90	2.42
W	Marathon Bell	Standard	3C & 3D	23	5.5%	0.41	5.97	2.45
X	Marathon Bell	Standard	3C & 3D	23	0.5%	0.56	2.51	1.41
Y	Oxford Fox	Cross Slope	DON7	14	8.0%	0.41	7.22	2.96
Z	Oxford Fox	Cross Slope	DON7	14	4.0%	0.45	5.54	2.49
AA	Peaceful Dawn	60' R/W	CD2-A	55.1	8.0%	0.49	8.48	4.16
AB	Peaceful Dawn	60' R/W	CD2-A	55.1	4.5%	0.54	6.53	3.53
AC	Peaceful Dawn	60' R/W	CD2	83	8.0%	0.56	8.88	4.97
AD	Plum Button	Cross Slope	DON2D	13	1.5%	0.51	3.71	1.89
AE	Plum Button	Cross Slope	See Note 3	28	0.5%	0.75	2.95	2.21
AF	Princeton Bluff	Standard	DON2D	13	5.5%	0.35	5.23	1.83
AG	Princeton Bluff	Standard	DON2D	13	1.5%	0.42	3.18	1.34
AH	Restless Wind	Cross Slope	DON5A	13	2.0%	0.49	4.18	2.05
AI	Restless Wind	Cross Slope	DON5B	12	2.0%	0.48	4.10	1.97
AJ	Restless Wind	Cross Slope	DON5C	13	1.0%	0.54	3.19	1.72
AK	Restless Wind	Cross Slope	XOF12	7	4.5%	0.37	4.93	1.82
AL	Restless Wind	Cross Slope	XOF13	4	0.5%	0.43	1.86	0.80
AM	Restless Wind	Cross Slope	DON7	14	4.5%	0.44	5.80	2.55
AN	Silver Hot Springs	Standard	CD5-A	28	7.0%	0.42	6.86	2.88
AO	Silver Hot Springs	Standard	Note 2	16	7.0%	0.36	6.02	2.17
AP	4' Flume east of Lot 257		DON7	14	7.0%	0.41	9.82	4.03

*For typical onsite streets the flow has been rounded to the next highest whole number. The slope has been rounded down to the nearest half percent. This produces worst case depth.

Note 1 - DON4A - SDDI 307.1

Note 2 - XOF12 + XOF13 + DON6A - SDDI 505 - SDDI 506 = 7+4+17-6-6 = 14cfs

Note 3 - DON2C + DON2D = 28cfs

Note 4 - CD4 - 300 Series SD flow = 339 - 212 = 127cfs

Strom Drain Drop Inlet Summary

Drop Inlet	Flow Reference	Drop Inlet Type	Flow Intercepted (cfs)	By-pass Flow (cfs)	Depth (ft)
103.1	DON1	7.5' CM Sump	12	N/A	0.62
201B	DON3C & DON3D	25' CM Sump	23	N/A	0.62
204	DON3A	15' CM Sump	16	N/A	0.61
305.1	DON4A - SDDI 307.1	10' CM Sump	9.8	N/A	0.52
307.1	2/3 DON4A	5' CM On-Grade	4	5	0.54
401	Kersee Half Street Capacity	10' CM On-Grade	6.5	8.5	0.46
405	DON5C	10' CM On-Grade	5.5	6.6	0.41
501	CD5- SDDI 503.1, 505 & 506	20' CM Sump	18	N/A	0.58
503.1	CD5-A - SDDI 505 & 506	10' CM On-Grade	8	8	0.5
505 & 506	1/2 CD5-A	10' CM On-Grade	6	8	0.35

GRAPHIC SCALE

60 0 30 60 120 240

(IN FEET)
1 inch = 60 ft.
CONTOUR INTERVAL 5'

Sub-Basin	Area (ac)	% of basin	Q_{10} (cfs)	Q_{100} (cfs)
DON1A	1.46	41%	2.1	5.0
DON2A	2.07	59%	2.9	7.0
DON2A	1.70	16%	3.0	6.0
DON2B	1.17	11%	2.1	4.1
DON2C	4.47	42%	7.9	15.8
DON2D	3.44	32%	6.1	12.1
DON3A	2.46	21%	4.0	8.3
DON3B	2.30	20%	3.8	7.7
DON3C	4.23	36%	6.9	14.2
DON3D	2.61	23%	4.3	8.8
DON4A	3.85	51%	6.6	13.8
DON4B	1.72	23%	3.0	6.2
DON4C	1.97	26%	3.4	7.1
DON5A	3.71	35%	6.7	13.0
DON5B	3.36	32%	6.1	11.8
DON5C	3.45	33%	6.2	12.1
DON6A	4.66	63%	8.8	17.0
DON6B	2.75	37%	5.2	10.0
DON7	3.69	100%	8.0	14.0

Basin	Q_{10} (cfs)	Q_{100} (cfs)	Basin	Q_{10} (cfs)	Q_{100} (cfs)	Basin	Q_{10} (cfs)	Q_{100} (cfs)
XOF2	53	122	DOF1	5	8	CD1	57	131
XOF3	19	45	DOF16	6	14	CD2	39	83
XOF4	23	53	DON1	5	12	CD3	50	112
XOF5	9	20	DON2	19	38	CD4	152	339
XOF6	3	6	DON3	19	39	CD5	19	38
XOF7	3	6	DON4	13	27	CD6	22	55
XOF8	72	166	DON5	19	37	CD7	30	70
XOF9	7	17	DON6	14	27			
XOF10	7	17	DON7	8	14			
XOF11	31	71						
XOF12	3	7						
XOF13	2	4						
XOF14	4	8						
XOF15	14	35						

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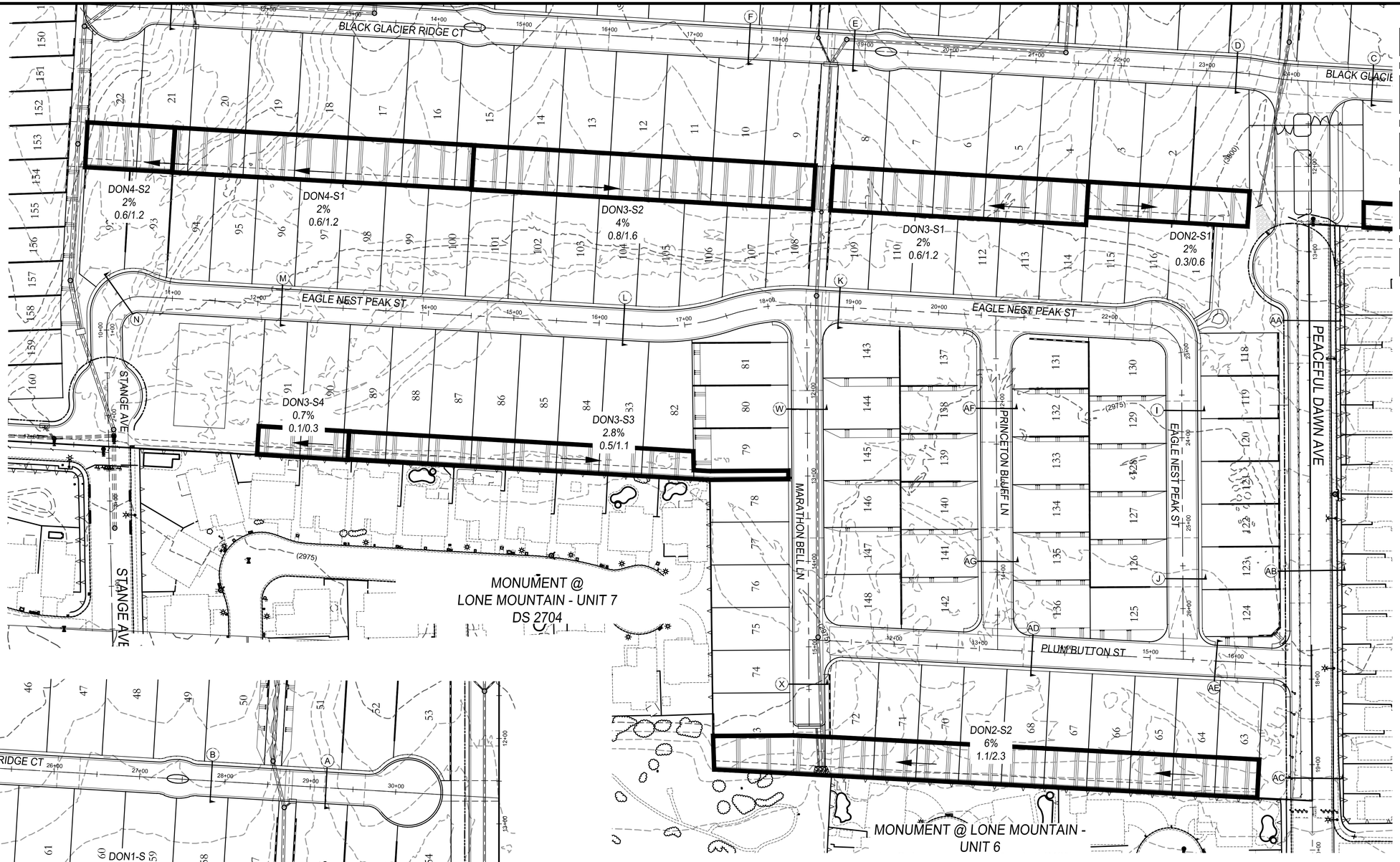
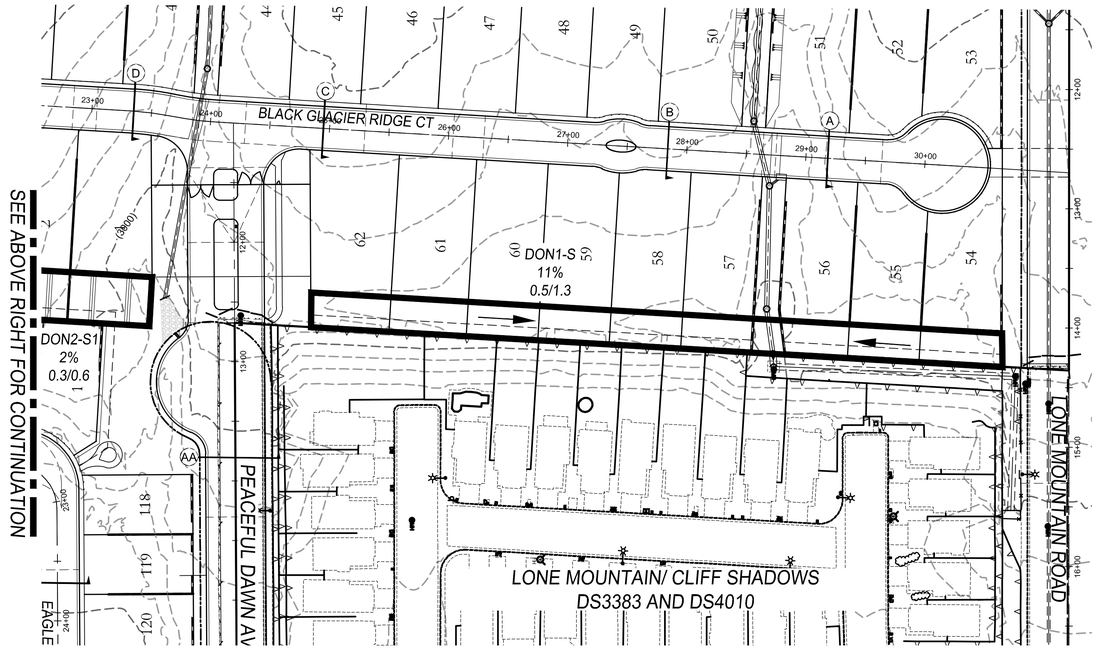
FIGURE 9
ULT. SUB-BASIN MAP 2
PEACEFUL RIDGE





Basin	Q_{10} (cfs)	Q_{100} (cfs)	Basin	Q_{10} (cfs)	Q_{100} (cfs)	Basin	Q_{10} (cfs)	Q_{100} (cfs)
XOF2	53	122	DOF1	5	8	CD1	57	131
XOF3	19	45	DOF16	6	14	CD2	39	83
XOF4	23	53	DON1	5	12	CD3	50	112
XOF5	9	20	DON2	19	38	CD4	152	339
XOF6	3	6	DON3	19	39	CD5	19	38
XOF7	3	6	DON4	13	27	CD6	22	55
XOF8	72	166	DON5	19	37	CD7	30	70
XOF9	7	17	DON6	14	27			
XOF10	7	17	DON7	8	14			
XOF11	31	71						
XOF12	3	7						
XOF13	2	4						
XOF14	4	8						
XOF15	14	35						

Slope Sub-Basin	Area (ac)	% of basin	Q_{10} (cfs)	Q_{100} (cfs)	Proposed Facility	Max Capacity*	Wall Solid Grouted?
DON1-S	0.38	11%	0.5	1.3	L-curb	1.66	Yes, Existing
DON2-S1	0.18	2%	0.3	0.6	L-curb	1.66	Yes, Proposed
DON2-S2	0.65	6%	1.1	2.3	2' Flume	3.89	Yes, Existing
DON3-S1	0.35	3%	0.6	1.2	L-curb	1.66	Yes, Proposed
DON3-S2	0.47	4%	0.8	1.6	L-curb	1.66	Yes, Proposed
DON3-S3	0.33	3%	0.5	1.1	2' Flume	1.38	No, Flume designed for 2xD
DON3-S4	0.08	1%	0.1	0.3	2' Flume	1.38	No, Flume designed for 2xD
DON4-S1	0.42	6%	0.7	1.5	L-curb	1.66	Yes, Proposed
DON4-S1 + DON4-S2	0.54	7%	0.9	1.9	2' Flume	3.89	Yes, Proposed

*Max capacity is based on a 0.5% minimum slope to curb height (0.5'). Where there is no solid grouting the maximum capacity is based on a depth of 0.25' to meet 2xd criteria.

GRAPHIC SCALE

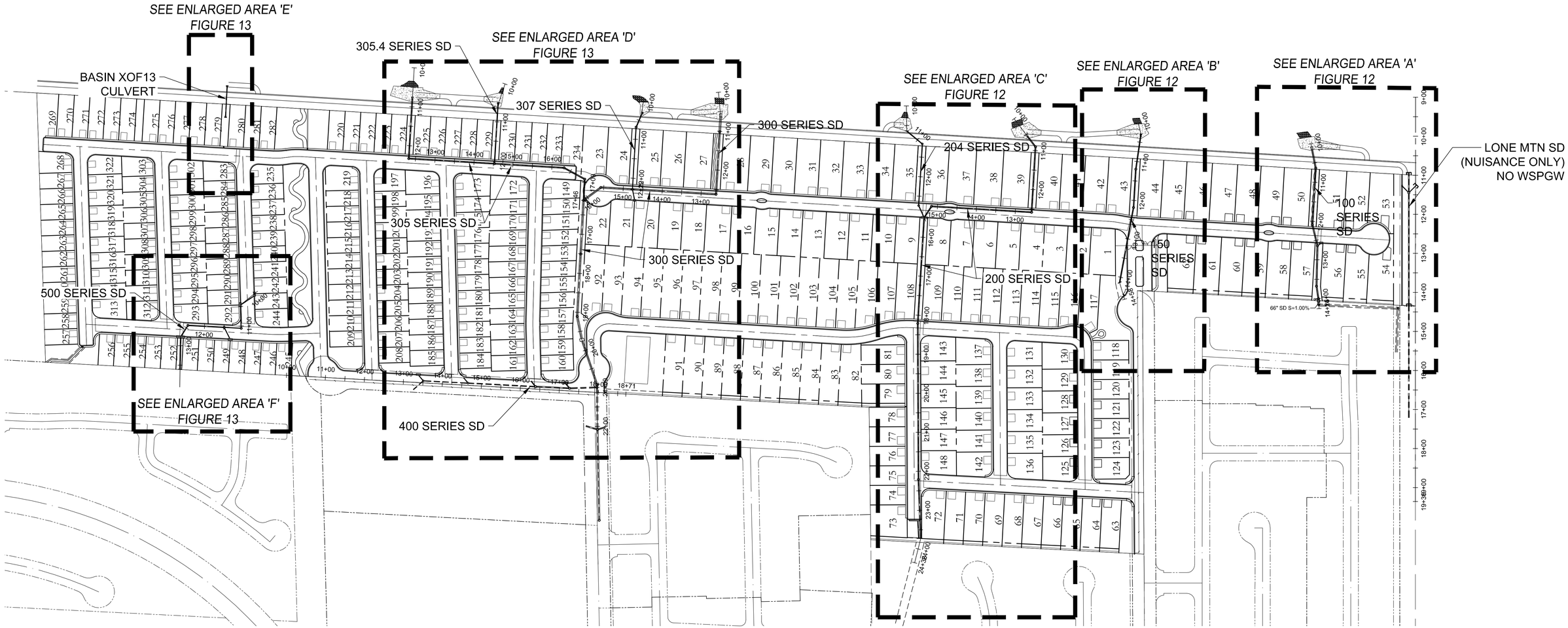
60 0 30 60 120 240

(IN FEET)
1 inch = 60 ft.

CONTOUR INTERVAL 5'

TANEY ENGINEERING
6030 JONES BLVD SUITE 100
LAS VEGAS, NV 89118
(702) 362-8844 FAX:(702) 362-5233

FIGURE 10
SLOPE SUB-BASIN MAP
PEACEFUL RIDGE



GRAPHIC SCALE

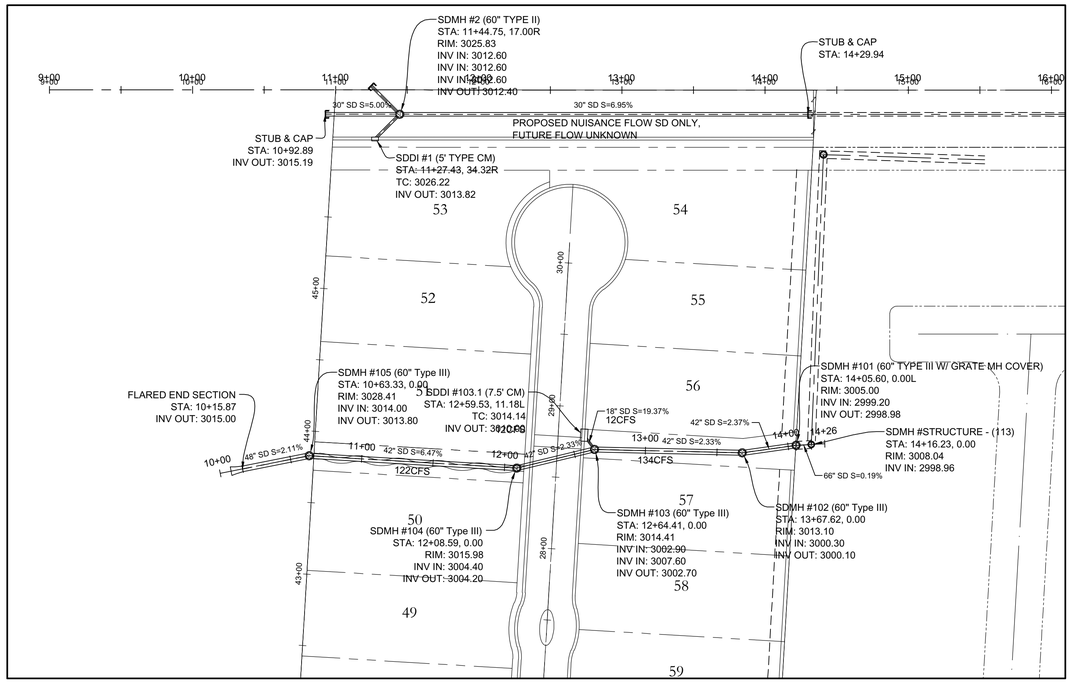
120 0 60 120 240 480

(IN FEET)
1 inch = 120 ft.

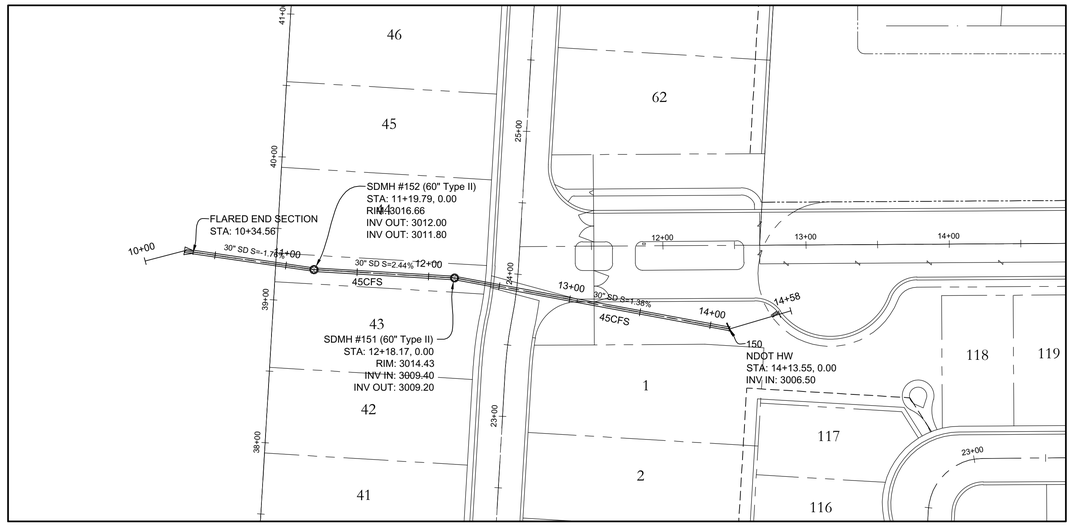
FILE NAME: SD FIGS.DWG

TANEY ENGINEERING
6030 S. JONES BLVD STE#100
LAS VEGAS, NV 89118
(702) 362-8844 FAX: (702) 362-5233

FIGURE 11
OVERALL STORM DRAIN
PEACEFUL RIDGE



ENLARGED AREA 'A'
LONE MOUNTAIN AND 100 SERIES SD



ENLARGED AREA 'B'
150 SERIES SD

ENLARGED AREA 'C'
200 AND 204 SERIES SD

GRAPHIC SCALE

60 0 30 60 120 240

(IN FEET)
1 inch = 60 ft.

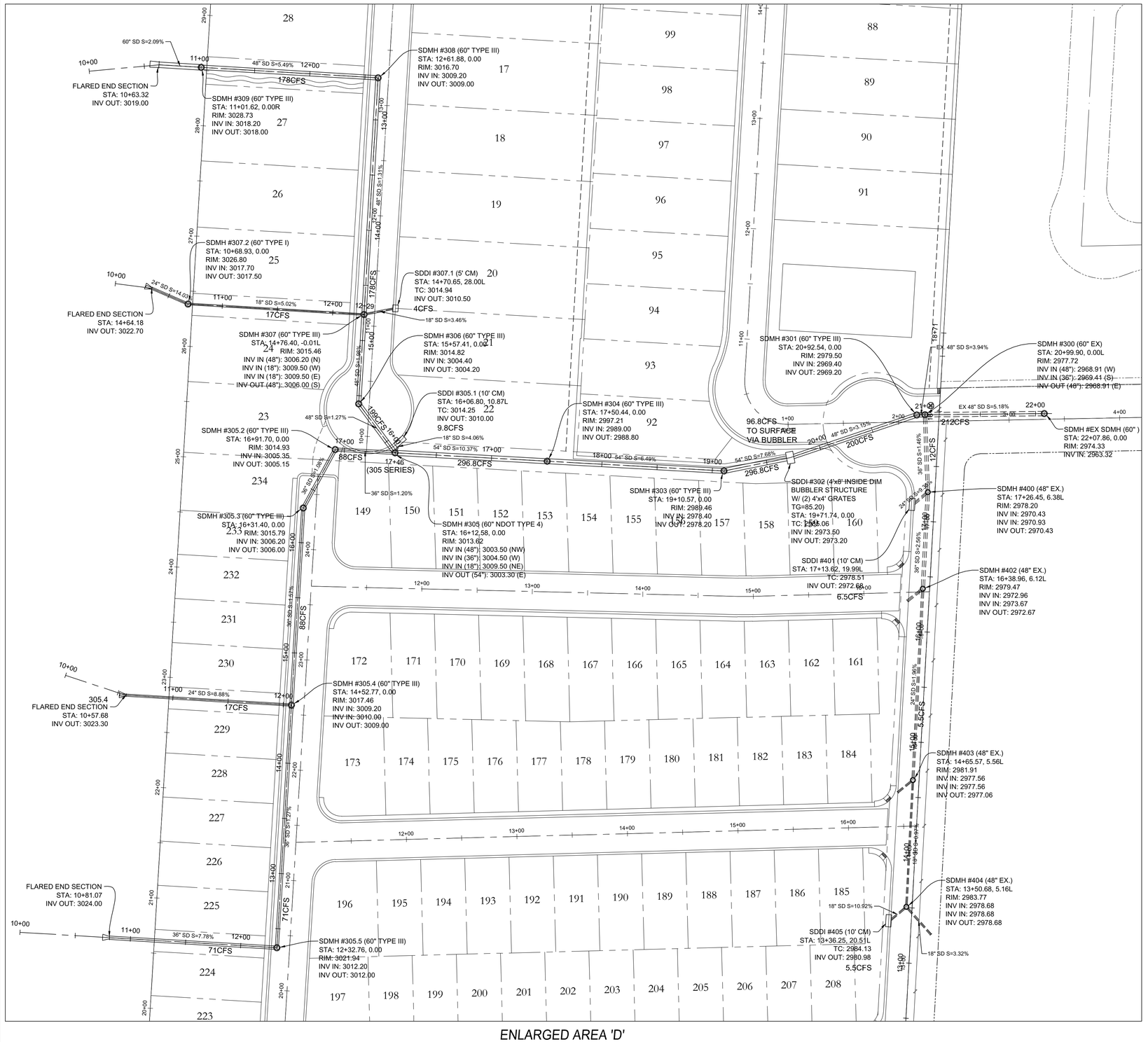
Strom Drain Drop Inlet Summary

Drop Inlet	Flow Reference	Drop Inlet Type	Flow Intercepted (cfs)	By-pass Flow (cfs)	Depth (ft)
103.1	DON1	7.5' CM Sump	12	N/A	0.62
201B	DON3C & DON3D	25' CM Sump	23	N/A	0.62
204	DON3A	15' CM Sump	16	N/A	0.61
305.1	DON4A - SDDI 307.1	10' CM Sump	9.8	N/A	0.52
307.1	2/3 DON4A	5' CM On-Grade	4	5	0.54
401	Kersee Half Street Capacity	10' CM On-Grade	6.5	8.5	0.46
405	DON5C	10' CM On-Grade	5.5	6.6	0.41
501	CD5- SDDI 503.1, 505 & 506	20' CM Sump	18	N/A	0.58
503.1	CD5-A - SDDI 505 & 506	10' CM On-Grade	8	8	0.5
505 & 506	1/2 CD5-A	10' CM On-Grade	6	8	0.35

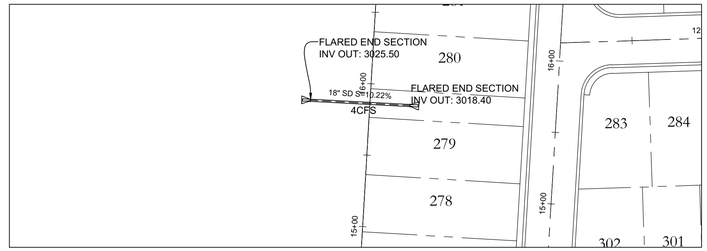
TANEY ENGINEERING
6030 S. JONES BLVD STE#100
LAS VEGAS, NV 89118
(702) 362-8844 FAX: (702) 362-5233

FIGURE 12
LN MTN, 100, 150 & 200 SERIES SD
PEACEFUL RIDGE

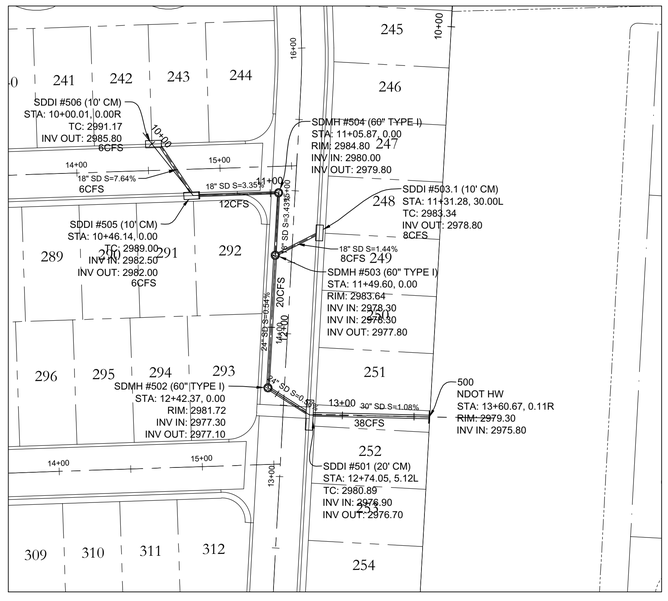
FILE NAME: SD FIGS.DWG



ENLARGED AREA 'D'
300, 305, 305.4, 307 AND 400 SERIES SD



ENLARGED AREA 'E'
BASIN XOF13 CULVERT



ENLARGED AREA 'F'
500 SERIES SD

Strom Drain Drop Inlet Summary					
Drop Inlet	Flow Reference	Drop Inlet Type	Flow Intercepted (cfs)	By-pass Flow (cfs)	Depth (ft)
103.1	DON1	7.5' CM Sump	12	N/A	0.62
201B	DON3C & DON3D	25' CM Sump	23	N/A	0.62
204	DON3A	15' CM Sump	16	N/A	0.61
305.1	DON4A - SDDI 307.1	10' CM Sump	9.8	N/A	0.52
307.1	2/3 DON4A	5' CM On-Grade	4	5	0.54
401	Kersee Half Street Capacity	10' CM On-Grade	6.5	8.5	0.46
405	DON5C	10' CM On-Grade	5.5	6.6	0.41
501	CD5- SDDI 503.1, 505 & 506	20' CM Sump	18	N/A	0.58
503.1	CD5-A - SDDI 505 & 506	10' CM On-Grade	8	8	0.5
505 & 506	1/2 CD5-A	10' CM On-Grade	6	8	0.35

GRAPHIC SCALE
60 0 30 60 120 240
(IN FEET)
1 inch = 60 ft.

TANEY ENGINEERING
6030 S. JONES BLVD STE#100
LAS VEGAS, NV 89118
(702) 362-8844 FAX: (702) 362-5233

FIGURE 13
300, 400 & 500 SERIES SD
PEACEFUL RIDGE

FILE NAME: SD FIGS.DWG

APPENDIX D

Improvement Plans

IMPROVEMENT PLANS
FOR
PEACEFUL RIDGE
PHASE 3 AT
LONE MOUNTAIN & PULI
A RESIDENTIAL SUBDIVISION
CITY OF LAS VEGAS, NEVADA
APN: 137-01-101-001, 009, 010, 011,
137-01-201-001, 002, 003, 011, 012
137-01-301-001 & 002

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06	G4	GRADING PLAN 4
07	GD1	GRADING DETAILS AND SECTIONS
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11	PP2	DIAMOND CASTLE PLAN AND PROFILE
12	PP3	IRISH KILT PLAN AND PROFILE
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14	PP5	SILVER HOT SPRINGS PLAN AND PROFILE
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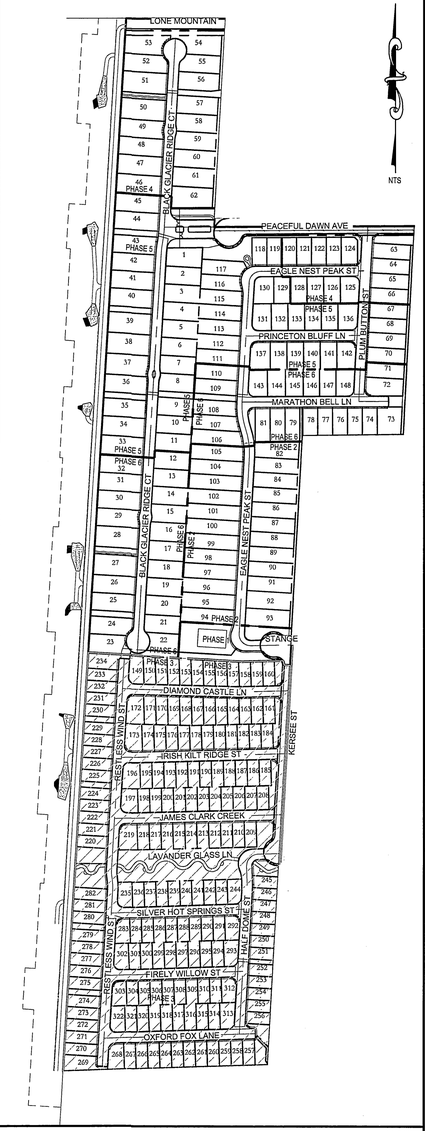
16	PP7	OXFORD FOX PLAN AND PROFILE
17	PP8	HALF DOME PLAN AND PROFILE
18	PP9	KERSEE STREET PLAN AND PROFILE
19	PP10	RESTLESS WIND PLAN AND PROFILE STA:11+00 TO 18+00
20	PP11	RESTLESS WIND PLAN AND PROFILE STA: 18+00 TO 25+00
21	PP12	DRAINAGE EASEMENT PLAN AND PROFILE
22	PP13	54" STORM DRAIN AND 36" STRORM DRAIN PLAN AND PROFILE

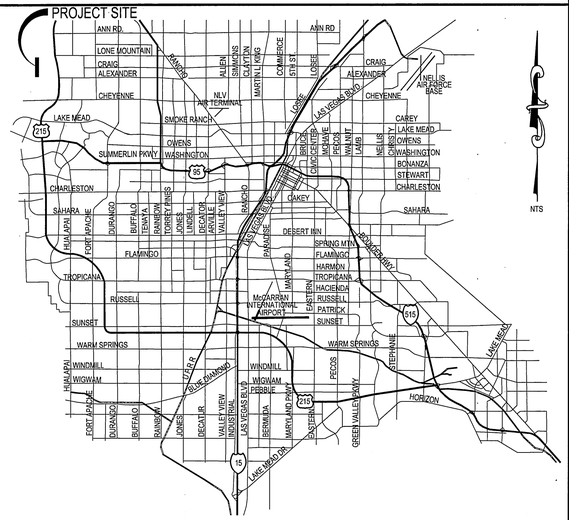
KEY MAP



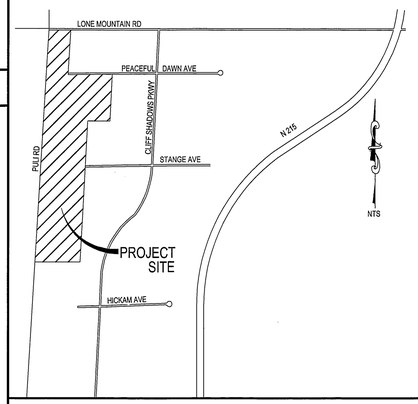
LEGEND

	EXISTING	PROPOSED
DESIGN ELEVATION	(10.00)	10.00
FUTURE ELEVATION		[10.00]
SCARP (SLOPE VARIES)		
CONTOUR (1' INTERVAL)		
CONTOUR (5' INTERVAL)		
DIRECTION OF FLOW		
RETAINING WALL		
CMU WALL		
CENTERLINE		
RIGHT-OF-WAY		
CUT LINE-ASPHALT		
CURB AND GUTTER		
POWER POLE		
SIDEWALK RAMP		
CURB DROP INLET		
STORM DRAIN W/MANHOLE		
SIDEWALK		
PROPERTY LINE		
CUT-FILL LINE		
EDGE OF PAVEMENT		
SIGHT VISIBILITY ZONE		
CAP & 2" BLOW OFF VALVE		
WATERLINE FITTINGS		
GATE VALVE		
FIRE HYDRANT		
SEWER LINE W/MANHOLE		
SEWER LATERAL		
WATER LINE		
WATER LATERAL W/METER		
PRESSURE REDUCING VALVE		PRV
BACKWATER VALVE		BWV
200A SERVICE PEDESTAL		
STREET LIGHT CONDUIT		
F.A.S.T. CONDUIT		
TRAFFIC SIGN		
STOP SIGN W/STREET NAME SIGN		
100W HPS LUMINAIRE W/11 GA. POLE		
250W HPS LUMINAIRE W/11 GA. POLE		
400W HPS LUMINAIRE W/11 GA. POLE		

VICINITY MAP



SITE MAP



UTILITY DISCLAIMER NOTE

EXISTING UTILITY LOCATIONS SHOWN HEREIN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATIONS.
CALL BEFORE YOU DIG: 1-800-227-2600
CALL BEFORE YOU OVERHEAD: 1-702-227-2929

DEVELOPER/OWNER

THM ENTERPRISES LLC
10655 PARK RUN DRIVE SUITE #230
LAS VEGAS, NV 89144
(702) 853-6320 PHONE

ENGINEER

TANEY ENGINEERING COMPANY
6030 S. JONES BLVD STE #100
LAS VEGAS, NV 89118
(702) 362-8844 PHONE (702) 362-5233 FAX

LEGAL DESCRIPTION

APN #: 137-01-101-001, 009, 010, 011,
137-01-201-001, 002, 003, 011,
012, 137-01-301-001, & 002

BENCHMARK

PROJECT VERTICAL DATUM: NAVD88
CITY OF LAS VEGAS BENCHMARK 1LV09-1W6
NAVD88 ELEV: 895.0609M 2936.55 FT
RIVET AND PLATE IN TOP OF CURB AT NORTHEAST CORNER OF CLIFF SHADOWS AND DIEGOVILLE.

BASIS OF BEARINGS

SOUTH 87°47'07" WEST, BEING THE BEARING OF THE SOUTH LINE OF THE NORTHWEST QUARTER (NW1/4) OF THE SOUTHWEST QUARTER (SW1/4) OF SECTION 1, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY NEVADA, AS SHOWN BY MAP THEREOF ON FILE IN BOOK 113, PAGE 87 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

ABBREVIATIONS

AC	ASPHALTIC CONCRETE
BC	BACK OF CURB
BCR	BACK OF CURB RADIUS
BFE	BASE FLOOD ELEVATION
BFP	BACK FLOW PREVENTOR
BLM	BUREAU OF LAND MANAGEMENT
BM	BENCHMARK
BRPM	BLUE RAISED PAVEMENT MARKER
BVC	BEGIN VERTICAL CURVE
BW	BOTTOM OF EXISTING WALL
CATV	CABLE TELEVISION
CC	CLARK COUNTY
CL	CENTERLINE
CLSM	CONTROLLED LOW STRENGTH MATERIAL
CLV	CITY OF LAS VEGAS
CMP	CORRUGATED METAL PIPE
CNLV	CITY OF NORTH LAS VEGAS
CO	CLEAN OUT, SEWER
COH	CITY OF HENDERSON
CY	CUBIC YARD
DCSWCS	DESIGN AND CONSTRUCTION STANDARDS OF WASTE WATER COLLECTION SYSTEMS
DG	DESIGN GRADE
DI	DROP INLET
DIP	DUCTILE IRON PIPE
EC	END OF CURVE
EG	EXISTING GRADE
ELEC	ELECTRICAL
EP	EDGE OF PAVEMENT
EVC	END VERTICAL CURVE
EX	EXISTING
FF	FINISH FLOOR ELEVATION
FG	FINISH GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
FT	FEET
GB	GRADE BREAK
GFF	GARAGE FINISH FLOOR
HP	HIGH POINT
INV	INVERT
LF	LINEAR FEET
LT	LEFT
LVVWD	LAS VEGAS VALLEY WATER DISTRICT
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
NO.	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
PB	PULL BOX
PC	POINT OF CURVE
PCC	POINT OF COMPOUND CURVE
PE	POLYETHYLENE
PI	POINT OF INTERSECTION
PL	PROPERTY LINE
PLT	PLATE
POC	POINT OF CONNECTION
PP	POWER POLE
PRC	POINT OF REVERSE CURVE
PROJ	PROJECT
PRV	PRESSURE REDUCING VALVE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
R	RADIUS
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
ROW	RIGHT-OF-WAY
RT	RIGHT
SD	STORM DRAIN
SHT	SHEET
STLT	STREETLIGHT
SNWA	SOUTHERN NEVADA WATER AUTHORITY
SS	SANITARY SEWER
STA	STATION
STD	STANDARD
SVZ	SIGHT VISIBILITY ZONE
SW	SIDEWALK
SY	SQUARE YARD
TC	TOP OF CURB
TELE	TELEPHONE
TF	TOP OF FOOTING
TR	TOP OF RETAINING
TW	TOP OF WALL
TYP	TYPICAL
UDACS	UNIFORM DESIGN AND CONSTRUCTION STANDARDS
USD	UNIFORM STANDARD DRAWING
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VG	VALLEY GUTTER
W	WATER
ZC	ZERO LIP CURB

Call Before You Dig
AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.
CALL 811 OR 1-800-227-2600

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.
CALL BEFORE YOU DIG OVERHEAD
1-702-227-2929

APPROVAL SIGNATURES

APPROVED FOR CONSTRUCTION

CITY OF LAS VEGAS FIRE DEPARTMENT — DATE

DAVID BOWERS, P.E., P.T.O.E. (P.E.#16736) — DATE
ACTING CITY ENGINEER -- CITY OF LAS VEGAS
APPROVAL OF THESE PLANS BY THE CITY ENGINEER IS LIMITED TO THOSE IMPROVEMENTS CONSTRUCTED IN THE DEDICATED RIGHT-OF-WAY, AND/OR DEDICATED EASEMENTS. THIS APPROVAL DOES NOT AUTHORIZE CONSTRUCTION OF ANY IMPROVEMENTS THAT DEVIATE FROM ADOPTED STANDARDS AND/OR SPECIFICATIONS EXCEPT THOSE SPECIFICALLY LISTED UNDER DEVIATIONS FROM STANDARDS. THE ENGINEER SHALL RESOLVE ANY DEVIATION OTHER THAN THOSE LISTED IN DEVIATIONS FROM STANDARD IN FAVOR OF THE UNIFORM STANDARD DRAWINGS AND SPECIFICATIONS, CLARK COUNTY AREA, NEVADA.

DOUG RANKIN, AICP PLANNING MANAGER — DATE
THIS PLAN MEETS THE APPLICABLE STANDARDS OF THE PLANNING AND DEVELOPMENT DEPARTMENT.

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER — DATE
(PROJ# XXXXXX), SHEETS:

COX COMMUNICATIONS LAS VEGAS, INC. — DATE

SOUTHWEST GAS — DATE

CENTURYLINK — DATE
"THE AFFIXED CENTURYLINK APPROVAL DOES NOT ASSUME OR GUARANTEE LIABILITY FOR KNOWN OR UNKNOWN CONFLICTS WITH EXISTING OR PROPOSED IMPROVEMENTS. RESOLUTION OF ANY CONFLICT WILL BE ACCOMPLISHED PURSUANT TO LOCAL ORDINANCES, NEVADA REVISED STATUTES AND/OR PUBLIC UTILITY COMMISSION RULES AND REGULATIONS"

NV ENERGY — DATE
NV ENERGY ACKNOWLEDGES THAT WE HAVE RECEIVED YOUR PLANS WILL PROVIDE SERVICE TO ALL ELECTRICAL NEEDS ASSOCIATED WITH THIS PROJECT. NV ENERGY RESERVES THE RIGHT TO ADDRESS ANY EXISTING OR FUTURE CONFLICTS ONCE THE FINAL DESIGN IS COMPLETED. THE NEW SERVICE AND THE RESOLUTION OF ANY CONFLICTS WILL BE ACCOMPLISHED PURSUANT TO THE NEVADA PUBLIC UTILITY COMMISSION'S RULES AND REGULATIONS.

REVISIONS

NO.	DESCRIPTION	SHTS.	APPR.	DATE

THM ENTERPRISE LLC
10655 PARK RUN DRIVE SUITE #220
LAS VEGAS, NV 89144
(702) 853-6320 FAX: —

TANEY ENGINEERING
6030 S. JONES BLVD, SUITE 100
LAS VEGAS, NV 89118
(702) 362-8844 FAX: (702) 362-5233

PEACEFUL RIDGE - PHASE 3
LONE MOUNTAIN & PULI
A RESIDENTIAL SUBDIVISION

COVER SHEET

PROFESSIONAL ENGINEER — STATE OF NEVADA — MICHAEL A. CUNNINGHAM — No. 22027 — CIVIL
ENGINEER'S SEAL

DATE:	10/30/2013
SCALE:	N.T.S.
JOB NO:	AST-12-002
DESIGNED BY:	SF
CHECKED BY:	MC
SHEET NAME:	C1
SHEET:	01 OF 22

CLV

FILE NAME: COVER SHEET.DWG

CLV GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA", LATEST ISSUE; THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA NEVADA", LATEST REVISED EDITION; THE "SUMMERLIN IMPROVEMENT STANDARDS" FOR WORK IN THE SUMMERLIN AREA; AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY; THE UNIFORM BUILDING CODE; AND ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE, EXCEPT AS NOTED ON THIS SHEET AS "DEVIATIONS FROM STANDARDS".

2. THE EXISTENCE AND LOCATION OF ANY OVERHEAD OR UNDERGROUND UTILITY LINES, PIPES, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A RESEARCH OF THE AVAILABLE RECORDS. EXISTING UTILITIES AS SHOWN FROM CLV PLANS LIBRARY ARE APPROXIMATE AND FOR RECORD PURPOSES. EXISTING UTILITIES ARE LOCATED ON PLANS ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. EXISTING UTILITY SERVICE LATERALS MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, LOCATE ALL UNDERGROUND AND OVERHEAD INTERFERENCE'S WHICH MAY AFFECT HIS OPERATION DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO SAME. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COST AND LIABILITY IN CONNECTION THEREWITH.

3. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING UTILITY LINES, STRUCTURES AND STREET IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE, FROM DAMAGE, AND ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED SATISFACTORY TO THE CITY ENGINEER AND OWNING UTILITY COMPANY AT THE EXPENSE OF THE CONTRACTOR.

4. ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS, ANY REVISIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.

5. TYPE V CEMENT SHALL BE USED IN ALL OFF-SITE CONCRETE WORK. CONCRETE TO BE 3000 P.S.I. MINIMUM @ 28 DAYS. MIX DESIGNS TO BE APPROVED BY THE CITY, PRIOR TO THE USE ON THE PROJECT.

6. PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.

7. EXPANSION JOINTS REQUIRED, MAXIMUM EVERY 300' IN EXTRUDED-TYPE CURB, 8. AC PAVEMENT TO BE ONE-HALF INCH (½") ABOVE LIP OF ALL GUTTERS AFTER COMPACTION, EXCEPT AT SIDEWALK RAMPS AND CROSS GUTTERS.

9. CURB AND GUTTER FOUND TO BE UNACCEPTABLE TO THE CITY OF LAS VEGAS SHALL BE REMOVED AND REPLACED PER STANDARD DRAWING 216.

10. SIDEWALK RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER STANDARD DRAWING 235. EXACT LOCATION OF RAMPS MAY BE ADJUSTED IN THE FIELD BY A CITY INSPECTOR.

11. CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND FOR INGRESS AND EGRESS TO NEW CONSTRUCTION. THE EXTENT OF THE TRANSITIONS TO BE AS SHOWN ON PLANS.

12. ALL GRADING WORK SHALL CONFORM TO THE SOILS REPORT AS PREPARED BY AMERICAN SOILS ENGINEERING, LLC REPORT NO: 1588-GEO DATE 06/04/12 APPROVED BY THE CITY ENGINEER, AND AS SHOWN ON THESE PLANS.

13. EXACT LOCATION OF ALL SAWCUT LINES MAY BE ADJUSTED OR DETERMINED IN THE FIELD BY A CITY OF LAS VEGAS ENGINEER IF LOCATION ON PLANS IS NOT CLEARLY SHOWN, OR EXISTING PAVEMENT CONDITION REQUIRES RELOCATIONS.

14. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE REPLACED AND ADJUSTED PER AVAILABLE RECORDS IN ACCORDANCE WITH N.R.S. STATUTE NO. 625.380 & CITY OF LAS VEGAS TITLE 18, APPENDIX D.

15. UTILITY COMPANY METER BOXES, MANHOLE LIDS, VALVE COVERS, ETC., SHALL BE LOCATED OUT OF DRIVEWAYS, DRIVEWAY APRONS, FLOWLINES, AND CROSS GUTTERS UNLESS WRITTEN APPROVAL IS GRANTED BY THE UTILITY COMPANY AND THE CITY ENGINEER.

WALL NOTES:

16. ALL WALLS, NEW OR EXISTING, ARE ONLY SHOWN ON CIVIL PLANS FOR THE PURPOSE OF REVIEWING GRADING RELATIONSHIPS; FLOOD CONTROL AND SIGHT DISTANCE AT INTERSECTIONS. NEW WALLS REQUIRE A SEPARATE PERMIT AND INSPECTION BY THE BUILDING DEPARTMENT.

17. ASPHALT MIX DESIGN MUST BE SUBMITTED AND APPROVED BY THE CITY ENGINEER PRIOR TO THE PLACEMENT OF ASPHALT WITHIN CITY RIGHT OF WAY.

18. CONTRACTOR SHALL ADJUST ALL NEW AND EXISTING INLETS, VALVE BOXES, MANHOLE RIMS, AND SEWER CLEAN OUTS, ETC. TO FINISH GRADE AS APPLICABLE WHETHER OR NOT THEY ARE SHOWN ON THE PLANS.

19. MATERIALS, HANDLING AND PLACEMENT OF PORTLAND CEMENT CONCRETE SHALL BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF NDOT OR THE CLARK COUNTY AREA SPECIFICATIONS (AS APPLICABLE) AND THE PLANS AND DETAILS SHOWN HEREON.

20. WHEN INSTALLING UNDERGROUND FACILITIES THAT REQUIRE UNDERGROUND LOCATING DEVICES SUCH AS MARKER BALLS, LOCATING RIBBON, ETC, THE CONTRACTOR SHALL PROVIDE WRITTEN DOCUMENTATION TO OFFSITE INSPECTION AND TESTING CERTIFYING THAT ALL DEVICES HAVE BEEN PLACED AND VERIFIED TO BE IN GOOD WORKING CONDITION PRIOR TO THE CONSTRUCTION OF ANY ROAD BASE.

21. SANITARY SEWER AND STORM DRAIN FINAL LOCATION MAP(S) SHALL BE PROVIDED TO THE OFFSITE INSPECTION AND TESTING SECTION PRIOR TO PROJECT ACCEPTANCE. THE MAP(S) SHALL INCLUDE THE HORIZONTAL AND VERTICAL (INVERT) LOCATION OF PUBLIC SEWER MANHOLES, STORM DRAIN MANHOLES, STORM DRAIN LATERALS AT THE CONNECTION TO THE STORM DRAIN MAIN AND AT THE CONNECTION TO A DROP INLET, AND THE CONNECTION OF SEWER SERVICE LATERALS TO THE SEWER MAIN AND WHERE THE SEWER SERVICE LATERALS EXITS THE PUBLIC RIGHT-OF-WAY. THE LOCATION SHALL BE DESCRIBED BY STATE PLANE COORDINATES WHICH SHALL BE BASED ON THE "NEVADA COORDINATE SYSTEM OF 1983, EAST ZONE" AS DEFINED BY THE NEVADA REVISED STATUTES CHAPTER 327, AND TIED TO THE CITY OF LAS VEGAS VERTICAL CONTROL BENCHMARK NETWORK. COORDINATES MUST BE CERTIFIED BY A NEVADA PROFESSIONAL LAND SURVEYOR TO HAVE POSITIONAL CERTAINTIES OF +/- 0.1 METER (+/- 0.3 FEET). A SEPARATE ELECTRONIC COMMA DELIMITED FILE FOR THE SANITARY SEWER AND STORM DRAIN COORDINATES SHALL ALSO ACCOMPANY THE SANITARY SEWER AND STORM DRAIN FINAL LOCATION MAP(S).

22. SANITARY SEWER SERVICE LATERALS REQUIRE THE INSTALLATION OF A MARKER BALL AT THE CONNECTION OF THE SEWER SERVICE LATERAL TO THE SEWER MAIN AND WHERE THE SEWER SERVICE LATERAL EXITS THE PUBLIC RIGHT-OF-WAY. STORM DRAIN LATERALS REQUIRE THE INSTALLATION OF A MARKER BALL AT THE CONNECTION OF THE STORM DRAIN LATERAL TO THE STORM DRAIN MAIN AND WHERE THE STORM DRAIN LATERAL EXITS THE PUBLIC RIGHT-OF-WAY OR WHERE THE STORM DRAIN LATERAL CONNECTS TO A DROP INLET. THE MARKER BALL SHALL BE 3M 4" MARKER BALL 1404-XR OR APPROVED EQUAL.

23. CCTV VIDEO INSPECTION IS REQUIRED FOR ALL SEWER AND STORM DRAINS. THE CCTV VIDEO INSPECTIONS NEED TO BE PERFORMED PER THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS LATEST EDITION.

24. A SEPARATE BORING PERMIT IS REQUIRED FOR ALL BORING ACTIVITIES.

CLV TRAFFIC NOTES

1. ALL CONSTRUCTION SIGNING, BARRICADING, AND TRAFFIC DELINEATION SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION.

2. THE STREET SIGN CONTRACTOR SHALL OBTAIN STREET NAMES AND BLOCK NUMBERING FROM THE PLANNING DEPARTMENT PRIOR TO CONSTRUCTION.

3. BEFORE ANY WORK IS STARTED IN THE RIGHT-OF-WAY, THE CONTRACTOR SHALL INSTALL ALL ADVANCE WARNING SIGNS FOR THE CONSTRUCTION ZONE. THE CONTRACTOR SHALL INSTALL TEMPORARY STOP SIGNS AT ALL NEW STREET ENCROACHMENTS INTO EXISTING CITY STREETS WHERE WARRANTED IMMEDIATELY AFTER FIRST GRADING WORK IS ACCOMPLISHED, AND SHALL MAINTAIN SAID SIGNS UNTIL PERMANENT SIGNS ARE INSTALLED.

4. WHEN A DESIGNATED "SAFE ROUTE TO SCHOOL" IS ENCROACHED UPON BY A CONSTRUCTION WORK ZONE AND PUBLIC WORKS STAFF IDENTIFIES A NEED FOR STUDENTS TO BE ASSISTED IN THE SAFE CROSSING THROUGH THAT WORK ZONE, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE A QUALIFIED "CROSSING GUARD". THE GUARD SHALL BE PRESENT FOR THE FULL DURATION OF TIME THAT CHILDREN ARE LIKELY TO BE PRESENT.

5. IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY OBSTRUCTION, TEMPORARY REMOVAL OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS TO THE SATISFACTION OF THE CITY TRAFFIC ENGINEER.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL PERMANENT SIGNS SHOWN ON THE PLANS. ALL NEW TRAFFIC SIGNS SHALL BE FABRICATED WITH DIAMOND GRADE VIP CLASS 6 REFLECTIVE SHEETING OR APPROVED EQUAL. ALL NEW TRAFFIC SIGNS, EXCEPT STREETNAME AND SCHOOL SPEED LIMIT SIGNS, SHALL HAVE 3M SERIES 1160 OR APPROVED EQUIVALENT ANTI-GRAFFITI PROTECTIVE OVERLAY FILM; SCHOOL ZONE SIGNS SHALL HAVE 3M SERIES 1150 ANTI-GRAFFITI PROTECTIVE OVERLAY FILM. STREET NAME SIGNS SHALL CONFORM IN THEIR ENTIRETY TO CURRENT CITY STANDARDS. ALL OTHER SIGNS SHALL BE STANDARD SIZE UNLESS OTHERWISE SPECIFIED ON THE PLANS. ALL SIGN POSTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT CITY STANDARDS.

7. WHEN A PROPOSED STREET LIGHT STANDARD IS LOCATED WITHIN FIVE (5') FEET OF ANY PROPOSED SIGN SHOWN ON THE PLANS TO BE MOUNTED ON A SIGNPOST, THE SIGN SHALL BE MOUNTED ON THE STREET LIGHT STANDARD AND THE SIGNPOST SHALL BE ELIMINATED.

8. ALL PERMANENT TRAFFIC CONTROL DEVICES CALLED FOR HEREON SHALL BE IN PLACE AND IN FINAL POSITION PRIOR TO ALLOWING ANY PUBLIC TRAFFIC ONTO THE PORTIONS OF THE ROAD(S) BEING IMPROVED HERE UNDER, REGARDLESS OF THE STATUS OF COMPLETION OF PAVING OR OTHER OFF-SITE IMPROVEMENTS CALLED FOR BY THESE PLANS.

9. STREET SIGNS AND STOPS SIGNS SHALL BE INSTALLED PER CITY STANDARD SPECIFICATIONS FOR PLACEMENT OF STREET NAME SIGNS.

10. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAFFIC CONTROL DEVICES AND FLAGGERS TO INSURE THE SAFETY OF THE PUBLIC IN OR AROUND THE WORK AREA. THE CONTRACTOR SHALL HAVE A CERTIFIED ATSSA TRAFFIC CONTROL TECHNICIAN OR IMSA WORK ZONE SAFETY SPECIALIST SET UP, MAINTAIN AND/OR REMOVE ALL TRAFFIC CONTROL DEVICES IN THE CITY OF LAS VEGAS RIGHT OF WAY.

11. WORK IN PUBLIC STREETS, ONCE BEGUN, SHALL BE EXPEDITED TO COMPLETION SO AS TO PROVIDE MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND TO THE TRAVELING PUBLIC.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING CITIZENS AREA TRANSIT (C.A.T.) IF THE CONSTRUCTION INTERRUPTS OR RELOCATES A BUS STOP OR HAS AN ADVERSE EFFECT ON BUS SERVICE ON THAT STREET TO ARRANGE FOR TEMPORARY RELOCATION OF STOP.

13. GUARDS SHALL BE OBTAINED BY CONTACTING THE METROPOLITAN POLICE DEPARTMENT SPECIAL EVENTS UNIT (PHONE # 828-3442) WHO WILL PROVIDE OFFICERS PROPERLY TRAINED IN TRAFFIC CONTROL. FEES FOR THE USE OF THESE OFFICERS SHALL BE SET BY METRO AND WILL BE PAID BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR ALL ARRANGEMENTS WITH METRO.

14. ANY WORK WITHIN 300' OF A SIGNALIZED INTERSECTION WILL BE NIGHT WORK, UNLESS OTHERWISE DIRECTED BY THE CITY OF LAS VEGAS TRAFFIC ENGINEER.

15. THE CONTRACTOR SHALL CONTACT THE TRAFFIC ENGINEERING DIVISION (TRANSPORTATION SECTION) THROUGH THE PROJECT'S OFFSITE INSPECTOR PRIOR TO INITIATING PAVING TO RECEIVE DIRECTION FOR ANY PERMANENT OR TEMPORARY MODIFICATIONS TO THE APPROVED DRAWINGS REGARDING FINAL PAVEMENT TRANSITIONS, MARKINGS AND SIGNING THAT ARE REQUIRED TO MATCH ADJACENT ROADWAY SEGMENTS. THE CONTRACTOR SHALL PROVIDE A DRAWING FOR APPROVAL BY THE TRAFFIC ENGINEERING DIVISION DEPICTING ANY ADJUSTMENTS TO THE FINAL PAVEMENT MARKINGS AND SIGNAGE, WHICH MAY INCLUDE OMITTING, ADDING OR MODIFYING PAVEMENT MARKINGS AND TRAFFIC CONTROL SIGNS SUCH THAT ADEQUATE TRANSITIONS AND LANE TERMINATIONS BETWEEN ADJACENT ROADWAY SEGMENTS ARE CONSTRUCTED.

FILE NAME: COVER SHEET.DWG

CLV FIRE DEPARTMENT NOTES

ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE LAS VEGAS FIRE AND RESCUE ADOPTED FIRE CODE ORDINANCE # 6124 FOR HYDRANT SPECIFICATIONS AND HYDRANT INSTALLATION SPECIFICATIONS. AUTHORIZED FIRE

HYDRANTS ARE AS FOLLOWS:
- KENNEDY - GUARDIAN MODELS K81A AND K81D
- MUELLER - SUPER CENTURION 250, MODEL A-423
- CLOW -MEDALLION MODEL F-2546LVD
- TROY VALVE - PATRIOT MODEL PT8100N, NEVADA HYDRANT
- U.S.PIPE - METROFLOWIM-03

A PERMIT IS REQUIRED FROM LAS VEGAS FIRE AND RESCUE FOR THE INSTALLATION OF ON-SITE WATER LINES AND FIRE HYDRANTS. THE PERMIT AND CONTRACTORS MATERIAL TEST CERTIFICATE FOR UNDERGROUND PIPING FORM SHALL BE OBTAINED FROM THE FIRE PROTECTION ENGINEER BEFORE COMMENCEMENT OF WORK.

ON ANY RESIDENTIAL OR COMMERCIAL INSTALLATIONS, FIRE HYDRANTS SHALL BE INSTALLED AND FIRE APPARATUS ACCESS ROADS SHALL BE MAINTAINED BEFORE COMMENCEMENT OF ANY COMBUSTIBLE CONSTRUCTION. ALL FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER AND SHALL BE CAPABLE OF DELIVERING THE REQUIRED FIRE FLOW. SNFC #6124, SECTION 1412.

TO IDENTIFY THE FIRE HYDRANT LOCATIONS, THE CONTRACTOR SHALL PLACE A BLUE REFLECTIVE MARKER AT THE CENTER LINE OF THE STREET ADJACENT TO THE FIRE HYDRANTS. SNFC #6124 SECTION 507.5.7.3

ALL UNDERGROUND INSPECTIONS, PRESSURE AND FLUSH VERIFICATIONS OF ALL FIRE HYDRANTS AND FIRE LINES, SHALL BE CONDUCTED BEFORE COVERING THE LINES. CENTER LOADING IS ACCEPTABLE FOR THE HYDRO TESTS WITH PRIOR FIRE PREVENTION APPROVAL ALL ON-SITE UNDERGROUND WATER MAINS AND MATERIALS SHALL BE U.L. LISTED, A.W.W.A APPROVED AND SHALL BE RATED FOR THE APPROPRIATE WORKING PRESSURE. SNFC 507.2.1, NFPA 24

PAINTING OF CURBS, FIRE HYDRANTS, PADS, PROTECTION OF FIRE HYDRANTS FROM PHYSICAL DAMAGE, AND ALL OTHER WORK NECESSARY PER PLANS SHALL BE COMPLETED BEFORE APPROVAL BY LAS VEGAS FIRE AND RESCUE, FIRE PREVENTION DIVISION. IFC 507; SNFC 507.5.7

PRIVATE HYDRANTS SHALL BE PAINTED RED. SNFC 507.5.7.1

PRIOR TO THE FINAL OCCUPANCY, A FIRE FLOW TEST SHALL BE WITNESSED BY LAS VEGAS FIRE AND RESCUE, FIRE PREVENTION DIVISION TO VERIFY AVAILABILITY OF THE REQUIRED FIRE FLOW. IFC 507; SNFC 507.1

FIRE HYDRANT SPACING SHALL BE AS FOLLOWS: SNFC C102
- RESIDENTIAL – 500 FT UNSPRINKLERED; 600 FT SPRINKLERED.
- COMMERCIAL – 300 FT UNSPRINKLERED; 400 FT SPRINKLERED.

WHERE THE WATER MAINS ARE EXTENDED ALONG STREETS OR NEW STREETS ARE INSTALLED WHERE FIRE HYDRANTS ARE NOT NEEDED FOR PROTECTION OF THE STRUCTURES, FIRE HYDRANTS SHALL BE INSTALLED AT A MAXIMUM OF 1000 FT SPACING, TO PROVIDE FOR TRANSPORTATION HAZARDS. WHERE STREETS ARE PROVIDED WITH MEDIAN DIVIDERS OR HAVE FOUR (4) OR MORE TRAFFIC LANES AND HAVE A TRAFFIC COUNT OF MORE THAN 30,000 PER DAY, HYDRANTS ARE REQUIRED ON EACH SIDE OF THE STREET SPACED AT 500 FT ON AN ALTERNATING BASIS. SNFC C102.14

NO FIRE HYDRANTS SHALL BE LOCATED WITHIN THE RADIUS OF A CUL-DE-SAC OR WITHIN 20 FT OF THE PERIMETER OF THE RADIUS OF THE CUL-DE-SAC. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN 6 FT OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREETLIGHT OR ANY OTHER OBSTRUCTION. SNFC C102.12

A MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A ONE-TWO FAMILY DWELLING SHALL NOT EXCEED 300 FT, AS MEASURED BY AN APPROVED ROUTE. SNFC 102.4 THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A FIRE DEPARTMENT CONNECTION (FDC) SHALL NOT EXCEED 100 FT, AS MEASURED BY AN APPROVED ROUTE. SNFC C102.7

THE MAXIMUM DISTANCE FROM A HYDRANT TO THE END OF A DEAD-END STREET SHALL NOT EXCEED 200 FT. SNFC 102.6

TWO (2) SOURCES OF SUPPLY ARE REQUIRED WHENEVER THERE IS 4 OR MORE FIRE HYDRANTS/SPRINKLER LEAD-INS ARE INSTALLED ON A SINGLE SYSTEM. SECTIONAL CONTROL VALVES SHALL BE INSTALLED SO THAT NO MORE THAN 2 FIRE HYDRANTS CAN BE OUT OF SERVICE DUE TO A BREAK IN A WATER MAIN.

ALL FIRE APPARATUS ACCESS ROADS SHALL BE PAVED TO PROVIDE ALL-WEATHER DRIVING CAPABILITIES, AND SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF THE FIRE APPARATUS. SNFC 503.2.3

THE GRADIENT FOR THE FIRE APPARATUS ACCESS ROADS SHALL NOT EXCEED 12%. ANGLES OF APPROACH AND ANGLES OF DEPARTURE SHALL NOT EXCEED 6% FOR 25 FT PRIOR TO OR AFTER THE GRADE CHANGE. ADJACENT TO THE STRUCTURES GRADIENT SHALL NOT EXCEED 6%. SNFC 503.2.7 / 503.2.8

THE TURNING RADIUS OF THE FIRE APPARATUS ACCESS ROADS SHALL BE NO LESS THAN 52 FT OUTSIDE AND 28 FT INSIDE TURNING RADIUS. SNFC 503.2.4

VERTICAL CLEARANCE OF ALL FIRE APPARATUS ACCESS ROADS SHALL NOT BE LESS THAN 13FT 6 INS. SNFC 503.2.1.1 / IFC 503

FIRE DEPARTMENT ACCESS ROADS IN ALL RESIDENTIAL DEVELOPMENTS (EXCEPT APARTMENT BUILDINGS) SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF NOT LESS THAN 36 FT FLOW LINE TO FLOW LINE (THIS WIDTH MAY BE REDUCED TO 24 FT IF ALL BUILDINGS FRONTING THE STREET ARE SPRINKLERED) FOR MAIN RESIDENTIAL STREETS, WITH PARKING PERMITTED ON BOTH SIDES OF THE STREET. PRIVATE DRIVE AISLES, DRIVEWAYS, ETC. SHALL BE ALLOWED TO BE REDUCED TO A MINIMUM WIDTH OF 24 FT FLOW LINE TO FLOW LINE WHEN SERVING NO MORE THE 6 RESIDENTS, AND WHEN ON STREET PARKING IS DISALLOWED. SNFC 503.2.1 / 503.2.11

ALL FIRE APPARATUS ACCESS ROADS IN COMMERCIAL DEVELOPMENTS AND APARTMENT COMPLEXES SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF NOT LESS THAN 24 FT (FLOW LINE TO FLOW LINE), PROVIDED NO PARKING IS ALLOWED ON EITHER SIDE; 32 FT (FLOW LINE TO FLOW LINE), WITH PARALLEL PARKING ON ONE SIDE. AND 36 FT (FLOW LINE TO FLOW LINE), IF PARALLEL PARKING IS ALLOWED ON BOTH SIDES. THESE WIDTHS MAY BE REDUCED TO 24 FT IF SPRINKLERED. SNFC 503.2.1.1

A FIRE APPARATUS ACCESS ROAD SHALL BE REQUIRED WHEN ANY PORTION OF AN EXTERIOR WALL OF THE FIRST STORY IS LOCATED MORE THAN 150 FT FROM A FIRE DEPARTMENT VEHICLE ACCESS. THIS DISTANCE COULD BE INCREASED TO 250 FT IF IF THE BUILDING IS SPRINKLERED. IFC 503.1.1 / SNFC 503.11

APPROVED SECONDARY FIRE APPARATUS ACCESS SHALL BE PROVIDED FOR 100 OR MORE DWELLING UNITS, ROAD(S) WITH DEAD-ENDS OR WITH A SINGLE POINT OF ACCESS IN EXCESS OF 600 FT, AND FOR ALL COMMERCIAL, INDUSTRIAL, AND MULTI-FAMILY RESIDENTIAL DEVELOPMENTS. SNFC 503.1.2

ALL DEAD-END FIRE APPARATUS ROADS AND/OR FIRE LANES, PUBLIC OR PRIVATE, IN EXCESS OF 150 FT IN LENGTH SHALL BE PROVIDED WITH AN APPROVED TURN AROUND HAVING A MINIMUM DIAMETER OF 81 FT. SNFC 503.2.5

ALL FIRE APPARATUS ACCESS ROADS SHALL BE MARKED BY PLACING APPROVED SIGNS AT THE START OF THE DESIGNATED FIRE LANE, ONE SIGN AT THE END OF THE FIRE LANE AND WITH SIGNS AT INTERVALS OF 100 FT ALONG THE DESIGNATED FIRE LANES. SIGNS TO BE PLACED ON BOTH SIDES OF AN ACCESS ROADWAY IF NEEDED TO PREVENT PARKING ON EITHER SIDE. SIGNS TO BE INSTALLED NO HIGHER THAN 10 FT OR LESS THAN 6 FT FROM THE ROADWAY LEVEL. THE CURB ALONG OR ON THE PAVEMENT OR CEMENT (IF NO CURB IS PROVIDED) SHALL BE PAINTED WITH A RED WEATHER RESISTANT PAINT IN ADDITION TO THE SIGNS. SNFC 503.3

ELECTRICALLY CONTROLLED ACCESS GATES SHALL BE PROVIDED WITH AN APPROVED EMERGENCY VEHICLE DETECTOR/RECEIVER SYSTEM. SAID SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF LAS VEGAS GUIDELINES FOR AUTOMATIC EMERGENCY VEHICLE ACCESS GATES. IFC / SNFC 503.6

CLV STREETLIGHT NOTES

1. ALL STREET LIGHTING INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE STREET LIGHTING PLANS, THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST REVISION, AND THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST REVISION, AND ANY ADOPTED SPECIAL AREA STANDARDS.

2. NO DEVIATION OF STREET LIGHT, PULL BOX, CONDUITS (ETC.) LOCATIONS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL OF TRAFFIC ENGINEERING AND THE CITY ENGINEER.

3. ALL EXISTING STREET LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION.

4. ALL STREET LIGHTING CONDUITS STUB SHALL HAVE AT LEAST ONE GREEN #8 THW WIRE INSTALLED, AS TRACER WIRE. WHEN "EMPTY" CONDUIT IS COMPLETELY INSTALLED FROM PB TO PB, IT SHALL HAVE MINIMUM OF 2 #4 AND 1 #8 THW WIRE WITH THE ENDS TAPED OR "SAFE OFF" PRIOR TO FINAL INSPECTION.

5. ANY STRUCTURE SUCH AS BLOCK WALLS, CHAIN LINK FENCES, RETAINING WALLS, ETC., SHALL LEAVE A MINIMUM CLEARANCE IN ACCORDANCE WITH THE USD NO. 320A.

6. AS-BUILT DRAWINGS SHALL BE SUPPLIED TO THE TEFO PRIOR TO ANY PRE-FINAL INSPECTION. THE ASBUILT DRAWING NEEDS TO BE STAMPED AS-BUILT AND SIGNED BY THE PREPARER.

7. SERVICE POINT SHALL BE COORDINATED WITH NV ENERGY COMPANY, AND WHEREVER POSSIBLE, BE LOCATED NEAR THE CENTER OF THE CIRCUIT. SERVICE POINTS SHALL BE SHOWN ON THE CIVIL PLANS.

8. IT SHALL BE ASSUMED THAT IN THE ABSENCE OF AN EXISTING, WORKABLE CIRCUIT TO ATTACH TO, ALL INSTALLATIONS SHALL REQUIRE A NEW SERVICE FOR OPERATION OF THE CIRCUIT.

9. WHEREVER THERE IS AN OVERHEAD UTILITY THAT MAY CONFLICT WITH THE INSTALLATION OF STREET LIGHTING CIRCUITS AND/OR POLES, THESE CONFLICTS MUST BE RESOLVED BETWEEN THE DEVELOPER AND THE UTILITIES INVOLVED, AT NO EXPENSE TO THE CITY OF LAS VEGAS, BEFORE STREETLIGHT BASES ARE INSTALLED.

10. THE CONTRACTOR SHALL FURNISH COMPLETE SERVICE TO TRANSFORMERS AND CONTROL SYSTEMS IF REQUIRED ON PLANS.

11. THE DEVELOPER/OWNER WILL BE REQUIRED TO SUPPLY POWER TO ALL NEW PUBLIC STREET LIGHTS INSTALLED UNDER THIS DESIGN PRIOR TO BOND RELEASE OR PROJECT COMPLETION. THE DEVELOPER/OWNER WILL BE RESPONSIBLE FOR ALL ITEMS ASSOCIATED WITH THE INSTALLATION, CONSTRUCTION, ENERGIZING, MAINTENANCE AND OPERATIONAL COST OF SAID STREET LIGHTS PRIOR TO PROJECT COMPLETION. REFER TO THE PLAN FOR ANY NEW SERVICE REQUIREMENTS. THE TRANSFER OF OWNERSHIP FROM THE DEVELOPER/OWNER TO THE CITY OF LAS VEGAS FOR ALL NEW PUBLIC STREET LIGHT/S AND/OR SERVICE/S INSTALLED UNDER THIS PLAN DESIGN WILL BE IN CONJUNCTION WITH THIS PROJECT COMPLETION. COORDINATE ALL MAINTENANCE AND OPERATIONAL TRANSFERS WITH THE CITY OF LAS VEGAS TRAFFIC ENGINEERING DEPARTMENT (TEFO) AT (702) 229-6331.

STORMWATER RUNOFF MANAGEMENT NOTES

1. THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATE IN, THE PUBLIC RIGHTS OF WAY OF CLARK COUNTY AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.

2. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN CLARK COUNTY TITLE 24.40 AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BEST MANAGEMENT PRACTICES MANUAL.

3. TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION IIIA.5.

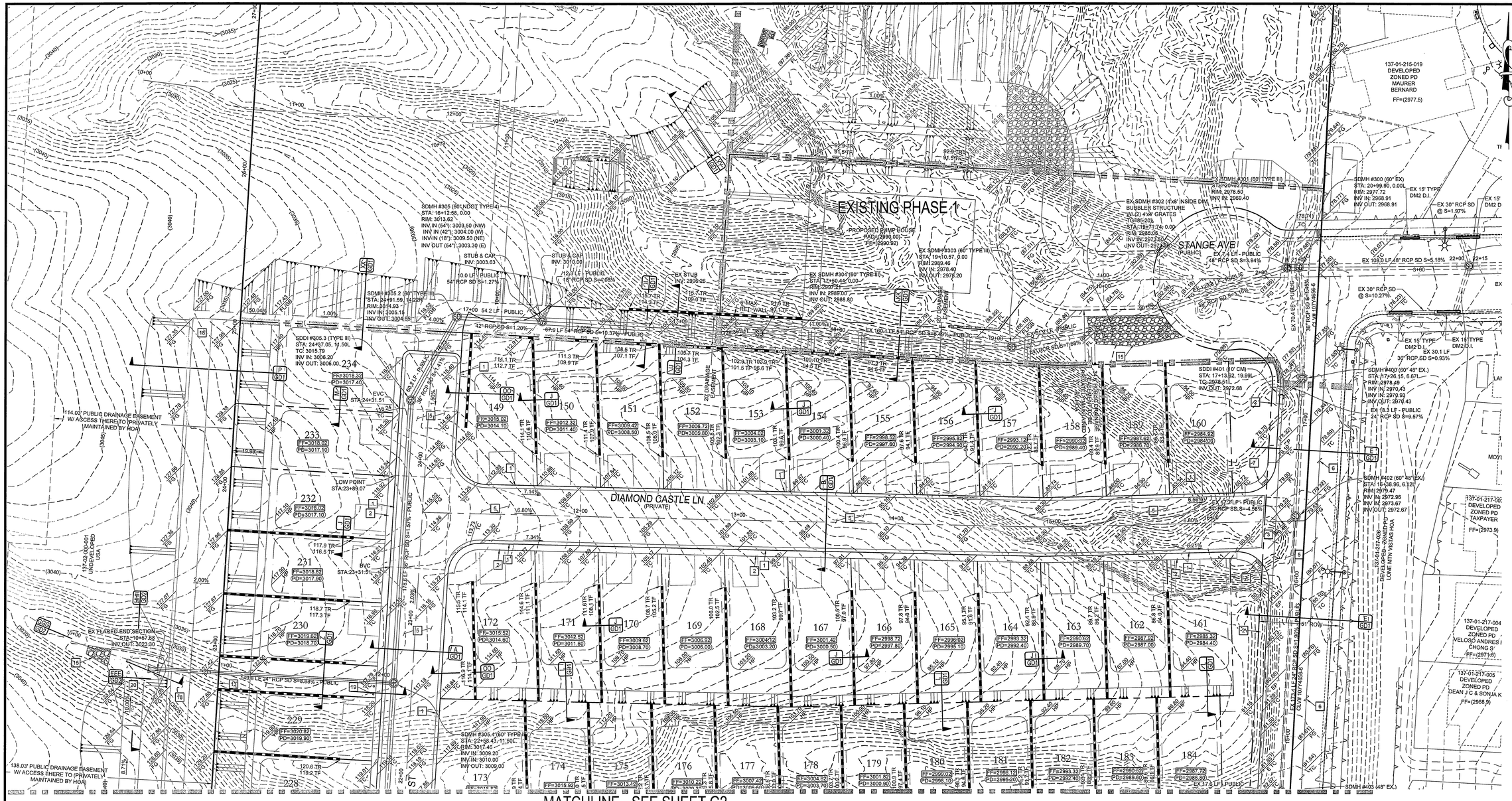
4. AT A MINIMUM, THE CONTRACTOR R HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS AND ALL BMPS WEEKLY, AND WITHIN 24 HOURS AFTER AND ACTUAL RAIN EVENT OF 0.5 INCHES OR MORE. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECCESSARY. SOME EXCEPTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION IIIA.12.

5. ACCUMULATED SEDIMENT IN BMPS SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

CLV GRADING NOTES

1. IN THE EVENT THAT ANY UNFORESEEN CONDITIONS NOT COVERED BY THESE NOTES ARE ENCOUNTEDED DURING GRADING OPERATIONS, THE OWNER/ENGINEER SHALL BE IMMDEDIATELY NOTIFIED FOR DIRECTION.

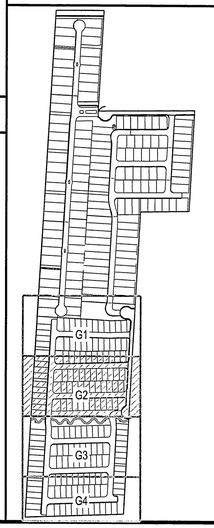
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL NECESSARY CUTS AND FILLS WITHIN THE LIM


EXISTING PHASE 1
PROPOSED PUMP HOUSE
FA=(2990.00)
FF=(2988.50)
DIAMOND CASTLE LN
(PRIVATE)
STANGE AVE
(PUBLIC)
SDMH #305 (60" LINDOT TYPE A)
STA: 16+12.68, 0.00
RIM: 3013.62
INV IN (54"): 3003.50 (NW)
INV IN (42"): 3004.00 (W)
INV IN (18"): 3009.50 (NE)
INV OUT (54"): 3003.30 (E)
SDMH #305.2 (60" TYPE III)
STA: 24+91.59, 54.28 R
RIM: 3014.93
INV IN: 3005.15
INV OUT: 3004.65
SDDI #305.3 (TYPE III)
STA: 24+37.05, 11.50L
TC: 3015.79
INV IN: 3006.20
INV OUT: 3006.00
EX SDMH #304 (60" TYPE III)
STA: 12+50.44, 0.00
RIM: 2997.21
INV IN: 2989.00
INV OUT: 2988.80
EX SDMH #303 (60" TYPE III)
STA: 19+10.57, 0.00
RIM: 2989.46
INV IN: 2978.40
INV OUT: 2978.20
EX SDMH #302 (4'x8' INSIDE DIM SUBLER STRUCTURE W/ (2) 4'x4' GRATES TG=(85.20) STA: 19+71.74, 0.00 RIM: 2986.06 INV IN: 2973.50 INV OUT: 2973.30
EX SDMH #301 (60" TYPE III)
STA: 20+92.11
RIM: 2978.50
INV IN: 2968.40
SDMH #300 (60" EX)
STA: 20+99.00, 0.00L
RIM: 2977.72
INV IN: 2968.91
INV OUT: 2968.91
137-01-215-019
DEVELOPED
ZONED PD
MAURER
BERNARD
FF=(2977.5)
SDDI #401 (10' CM)
STA: 17+13.92, 19.99L
TC: 2974.61
INV OUT: 2972.68
SDMH #400 (60" 48" EX.)
STA: 17+26.15, 6.67L
RIM: 2978.49
INV IN: 2970.43
INV IN: 2970.93
INV OUT: 2970.43
SDMH #402 (60" 48" EX)
STA: 15+38.56, 6.12L
RIM: 2979.47
INV IN: 2972.96
INV IN: 2973.87
INV OUT: 2972.67
137-01-217-004
DEVELOPED
ZONED PD
VELOSO ANDRES I
CHONG S
FF=(2971.6)
137-01-217-005
DEVELOPED
ZONED PD
DEAN J C & SONJA K
FF=(2968.9)
137-01-217-006
DEVELOPED->ZONED PD
LONE MTN VISTAS HOA
137-01-217-00
DEVELOPED
ZONED PD
TAXPAYER
FF=(2973.9)
137-02-200-001
UNDEVELOPED
USA
EX STUB
INV: 2989.86
STUB & CAP
INV: 3003.63
STUB & CAP
INV: 3010.00
EX 112.5 LF - PUBLIC
18" RCP SD S=1.27%
EX 160.1 LF 54" RCP SD S=2.50% PUBLIC
EX 67.9 LF 54" RCP SD S=10.37% PUBLIC
EX 42.1 LF - PUBLIC
42" RCP SD S=1.20%
EX 114.0 LF - PUBLIC
36" RCP SD S=1.40%
EX 69.2 LF - PUBLIC
36" RCP SD S=1.57%
EX 70.4 LF - PUBLIC
36" RCP SD S=8.45%
EX 108.0 LF 48" RCP SD S=5.18%
EX 30" RCP SD @ S=1.97%
EX 30" RCP SD @ S=10.27%
EX 30.1 LF 36" RCP SD S=0.93%
EX 18.3 LF - PUBLIC
24" RCP SD S=9.57%
EX 112 LF - PUBLIC
RCP SD S=4.56%
EX 15' TYPE DM2 D.I.
EX 15' TYPE DM2 D.I.
EX 15' TYPE DM2 D.I.
EX 15' TYPE DM2 D
EX 17.8 LF - PUBLIC
EX 20' DRAINAGE EASEMENT
EX 30' DRAINAGE EASEMENT
EX 20' DRAINAGE EASEMENT
EX 20' DRAINAGE EASEMENT
EX 20

MATCHLINE - SEE SHEET G1

MATCHLINE - SEE SHEET G3

KEY MAP



SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

GEOTECHNICAL

GEOTEK RESIDENTIAL, LLC.
6835 S. ESCONDIDO ST. STE. B
LAS VEGAS, NEVADA 89119
702-897-1424

REPORT NO: 10944-LVR6
DATE 10/30/2012

STORM DRAIN DROP INLET NOTE

THE CONSTRUCTION OF ALL STORM DRAIN DROP INLETS SHALL BE PER DETAIL XX/GD3 AND USDCCA DRAWING NO. 421

PRIVATE STREETS NOTE

ALL PRIVATE STREETS ARE P.U.E., PUBLIC SEWER EASEMENTS AND PUBLIC DRAINAGE EASEMENTS TO BE PRIVATELY MAINTAINED BY THE HOA.

DRAINAGE EASEMENT NOTE

ALL DRAINAGE EASEMENTS ARE PUBLIC DRAINAGE EASEMENTS TO BE PRIVATELY MAINTAINED BY THE HOA

EARTHWORK

TOTAL FOR OVERALL DEVELOPMENT: 284,814 CY CUT
278,664 CY FILL

THIS OPINION OF THE CUT AND FILL QUANTITIES IS PROVIDED AS REQUIRED BY CLARK COUNTY BUILDING CODE REQUIREMENTS. THIS INFORMATION SHOULD NOT BE USED FOR BIDDING PURPOSES. ALL CONTRACTORS ARE RESPONSIBLE FOR THEIR OWN QUANTITIES. THESE TOTALS ARE RAW AND DO NOT ACCOUNT FOR SHRINKAGE AND SUBSIDENCE.

LEGAL DESCRIPTION

APN #: 137-01-101-001, 009, 010, 011,
137-01-201-001, 002, 003, 011,
012, 137-01-301-001, & 002

BENCHMARK

PROJECT VERTICAL DATUM: NAVD88
CITY OF LAS VEGAS BENCHMARK 1LV09-1W6
NAVD88 ELEV: 895.05699M 2936.55 FT
RIVET AND PLATE IN TOP OF CURB AT NORTHEAST
CORNER OF CLIFF SHADOWS AND DIEGOVILLE.

BASIS OF BEARINGS

SOUTH 87°47'07" WEST, BEING THE BEARING OF THE SOUTH LINE OF THE NORTHWEST QUARTER (NW1/4) OF THE SOUTHWEST QUARTER (SW1/4) OF SECTION 1, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY NEVADA, AS SHOWN BY MAP THEREOF ON FILE IN BOOK 113, PAGE 87 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

GRADING NOTES

ADD 2900 FEET TO ALL GRADE TAGS TO GET ACTUAL ELEVATION.

THE ELEVATION DIFFERENCE BETWEEN THE PAD AND FINISH FLOOR IS DETERMINED FROM THE MINIMUM THICKNESS REQUIRED PER THE GEOTECHNICAL REPORT. FINISH FLOORS MAY INCREASE DEPENDING ON THE TYPE OF SOIL AND FOUNDATION PLAN USED. NOTE THAT THE STRUCTURAL PLANS & GEOTECHNICAL REPORT SHALL SUPERSEDE THE CIVIL IMPROVEMENT PLANS.

ALL PRIVATE STREETS AND DRAINAGE EASEMENTS ARE TO BE PRIVATELY OWNED AND MAINTAINED BY THE HOMEOWNERS ASSOCIATION (H.O.A.).

ALL WORK TO BE PERFORMED OUTSIDE OF THE PROJECT BOUNDARY AND ON PRIVATE PROPERTY SHALL NOT BE PERFORMED UNTIL WRITTEN PERMISSION AND EASEMENTS HAVE BEEN OBTAINED FROM THE OFFSITE OWNER AND GIVEN TO CITY OF LAS VEGAS.

CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING UTILITIES AND NOTIFY THE DESIGN ENGINEER IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

FLOOD ZONE

THIS PROJECT IS LOCATED IN FLOODZONE "X" WHICH IS AN AREA DETERMINED TO BE OUTSIDE OF THE 0.20% ANNUAL CHANCE FLOODPLAIN PER FIRM PANEL 32003C2150E, MAP REVISED SEPTEMBER 27, 2002

GRADING CERTIFICATION

I CERTIFY THIS GRADING PLAN COMPLIES WITH THE APPROVED DRAINAGE STUDY, DS-4600, ON FILE WITH CITY OF LAS VEGAS FOR THIS PROJECT.

MICHAEL A. CUNNINGHAM, P.E. DATE

CONSTRUCTION NOTES

1 — 24" L-TYPE CURB & GUTTER (USD #216)
2 — 4.0' SIDEWALK (USD #234)
3 — 8.0' CROSS GUTTER (USD #228)
4 — 5.0' SIDEWALK (USD #234)
5 — AC PAVEMENT OVER TYPE II (PER GEOTECHNICAL REPORT)
6 — SAWCUT & MATCH EXISTING AC PAVEMENT
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9 — SIDEWALK UNDERDRAIN (USD #236)
10 — 10' MEANDERING SIDEWALK (USD #234)
11 — 3.0' CONCRETE FLUME (SEE DETAIL AA/GD1)
12 — A-TYPE CURB (USD #219)
13 — INSTALL WROUGHT IRON FENCE AND ACCESS GATE
14 — 5.0' CONCRETE FLUME (SEE DETAIL BB/GD1)
15 — RIPRAP: D50=12", THICKNESS=24"
16 — 2.0' CURB OPENING (SEE DETAIL RR/GD1)
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19 — INSTALL REMOVABLE LOCKING BOLLARDS (SEE DETAIL GGG/GD3)
20 — 4" SHOTCRETE 3000 PSI TYPE V CEMENT W/ #4 REBAR @12" O.C. EACH WAY

FILE NAME: 03 G1.DWG

THM ENTERPRISE LLC
10655 PARK RUN DRIVE SUITE #230
LAS VEGAS, NV 89144
(702) 853-8320 FAX: —

TANEY ENGINEERING
6030 S. JONES BLVD. SUITE 100
LAS VEGAS, NV 89118
(702) 362-8844 FAX: (702) 362-8233

NO.	DESCRIPTION	SHTS.	APPR.	DATE
	REVISIONS			

PEACEFUL RIDGE - PHASE 3
LONE MOUNTAIN & PULI
A RESIDENTIAL SUBDIVISION

GRADING PLAN 2

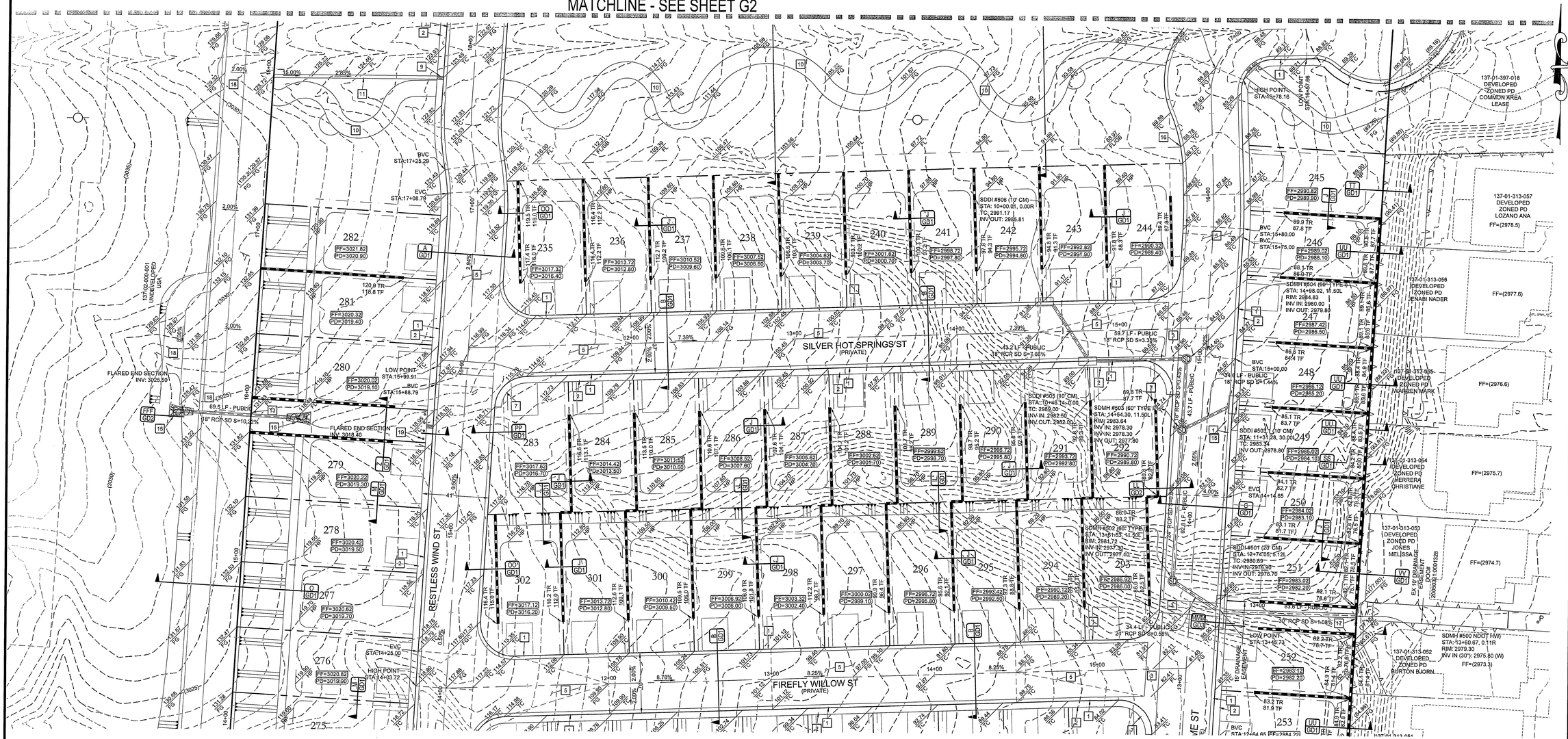
PROFESSIONAL ENGINEER — STATE OF NEVADA — MICHAEL A. CUNNINGHAM Exp. 12-31-14 CIVIL No. 22027

ENGINEER'S SEAL

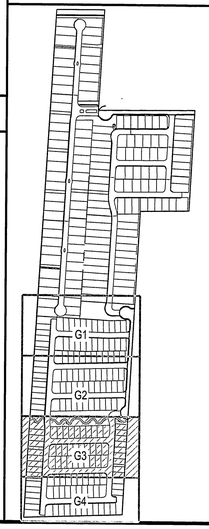
DATE:	10/30/2013
SCALE:	1"=30'
JOB NO:	AST-12-002
DESIGNED BY:	SF
CHECKED BY:	MC
SHEET NAME:	G2
SHEET:	04 OF 22

CLV

MATCHLINE - SEE SHEET G2



KEY MAP



SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

STORM DRAIN DROP INLET NOTE

THE CONSTRUCTION OF ALL STORM DRAIN DROP INLETS SHALL BE PER DETAIL XX/GD3 AND USDCCA DRAWING NO. 421

PRIVATE STREETS NOTE

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DRAINAGE EASEMENT NOTE

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EARTHWORK

TOTAL FOR OVERALL DEVELOPMENT: 294,814 CY CUT
278,664 CY FILL

THIS OPINION OF THE CUT AND FILL QUANTITIES IS PROVIDED AS REQUIRED BY CLARK COUNTY BUILDING CODE REQUIREMENTS. THIS INFORMATION SHOULD NOT BE USED FOR BIDDING PURPOSES. ALL CONTRACTORS ARE RESPONSIBLE FOR THEIR OWN QUANTITIES. THESE TOTALS ARE RAW AND DO NOT ACCOUNT FOR SHRINKAGE AND SUBSIDENCE.

LEGAL DESCRIPTION

APN #: 137-01-101-001, 009, 010, 011,
137-01-201-001, 002, 003, 011,
012, 137-01-301-001, & 002

BENCHMARK

PROJECT VERTICAL DATUM: NAVD88
CITY OF LAS VEGAS BENCHMARK 1LV09-1W6
NAVD88 ELEV: 895.0606M 2936.55 FT
RIVET AND PLATE IN TOP OF CURB AT NORTHEAST
CORNER OF CLIFF SHADOWS AND DIEGOVILLE.

BASIS OF BEARINGS

SOUTH 87°47'07" WEST, BEING THE BEARING OF THE SOUTH LINE OF THE NORTHWEST QUARTER (NW1/4) OF THE SOUTHWEST QUARTER (SW1/4) OF SECTION 1, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY NEVADA, AS SHOWN BY MAP THEREOF ON FILE IN BOOK 113, PAGE 87 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

GRADING NOTES

ADD 2900 FEET TO ALL GRADE TAGS TO GET ACTUAL ELEVATION.

THE ELEVATION DIFFERENCE BETWEEN THE PAD AND FINISH FLOOR IS DETERMINED FROM THE MINIMUM THICKNESS REQUIRED PER THE GEOTECHNICAL REPORT. FINISH FLOORS MAY INCREASE DEPENDING ON THE TYPE OF SOIL AND FOUNDATION PLAN USED. NOTE THAT THE STRUCTURAL PLANS & GEOTECHNICAL REPORT SHALL SUPERSEDE THE CIVIL IMPROVEMENT PLANS.

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FLOOD ZONE

THIS PROJECT IS LOCATED IN FLOODZONE "X" WHICH IS AN AREA DETERMINED TO BE OUTSIDE OF THE 0.20% ANNUAL CHANCE FLOODPLAIN PER FIRM PANEL 32003C2150E, MAP REVISED SEPTEMBER 27, 2002

GRADING CERTIFICATION

I CERTIFY THIS GRADING PLAN COMPLIES WITH THE APPROVED DRAINAGE STUDY, DS-4600, ON FILE WITH CITY OF LAS VEGAS FOR THIS PROJECT.

MICHAEL A. CUNNINGHAM, P.E. DATE

CONSTRUCTION NOTES

1 — 24" L-TYPE CURB & GUTTER (USD #216)
2 — 4.0' SIDEWALK (USD #234)
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AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.
CALL BEFORE YOU DIG OVERHEAD
1-702-227-2929

Call Before You Dig
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CALL 811
OR
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GEOTECHNICAL

GEOTEK RESIDENTIAL, LLC.
6835 S. ESCONDIDO ST. STE. B
LAS VEGAS, NEVADA 89119
702-897-1424

REPORT NO: 10944-LVR6
DATE 10/30/2012

FILE NAME: 03 G1.DWG

NO.	DESCRIPTION	SHTS.	APPR.	DATE
	REVISIONS			

THM ENTERPRISE LLC
10655 PARK RUN DRIVE SUITE #220
LAS VEGAS, NV 89144
(702) 853-8320 FAX: —

TANEY ENGINEERING
6635 S. JONES BLVD. SUITE 100
LAS VEGAS, NV 89118
(702) 362-8844 FAX: (702) 362-5233

PEACEFUL RIDGE - PHASE 3
LONE MOUNTAIN & PULI
A RESIDENTIAL SUBDIVISION

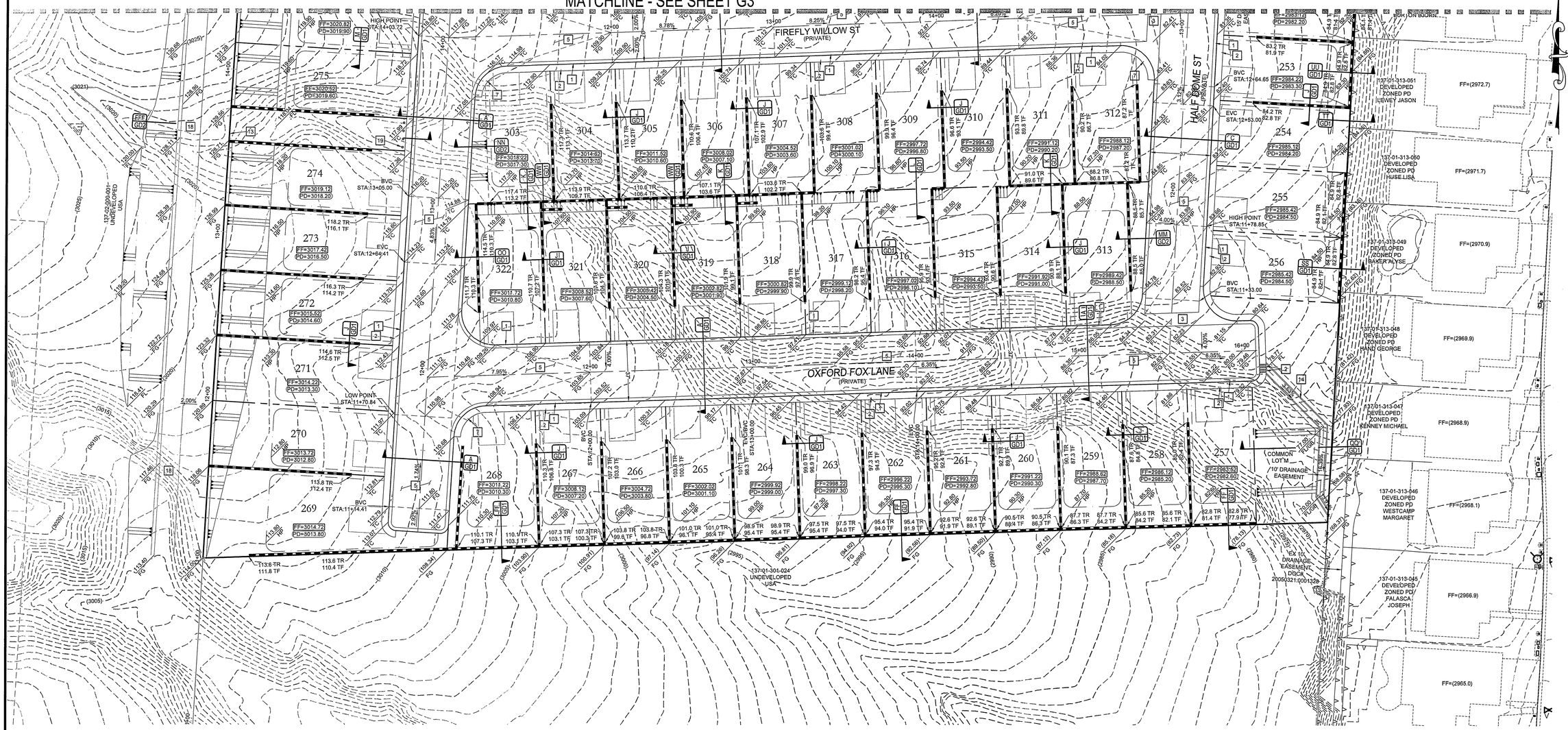
GRADING PLAN 3

MICHAEL A. CUNNINGHAM
Exp. 12-31-14
CIVIL
No. 22027
STATE OF NEVADA
REGISTERED PROFESSIONAL ENGINEER
ENGINEER'S SEAL

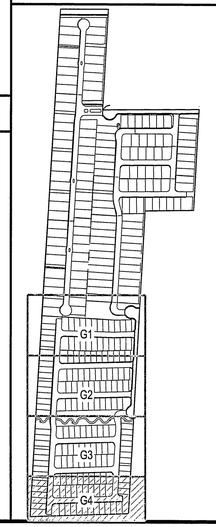
DATE: 10/30/2013
SCALE: 1"=30'
JOB NO: AST-12-002
DESIGNED BY: SF
CHECKED BY: MC
SHEET NAME: G3
SHEET: 05 OF 22

CLV

MATCHLINE - SEE SHEET G3



KEY MAP



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6835 S. ESCONDIDO ST. STE. B
LAS VEGAS, NEVADA 89119
702-897-1424

REPORT NO: 10944-LVR6
DATE 10/30/2012

EARTHWORK

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137-01-201-001, 002, 003, 011,
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PROJECT VERTICAL DATUM: NAVD88
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NAVD88 ELEV: 895.0609M 2936.55 FT
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MICHAEL A. CUNNINGHAM, P.E. DATE

CONSTRUCTION NOTES

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NO.	DESCRIPTION	SHTS.	APPR.	DATE
	REVISIONS			

THM ENTERPRISE LLC
10855 PARK RUN DRIVE SUITE #230
LAS VEGAS, NV 89144
(702) 853-8320 FAX: —

TANEY ENGINEERING
6030 S. JONES BLVD. SUITE 100
LAS VEGAS, NV 89118
(702) 362-8844 FAX: (702) 362-8233

PEACEFUL RIDGE - PHASE 3
LONE MOUNTAIN & PULI
A RESIDENTIAL SUBDIVISION

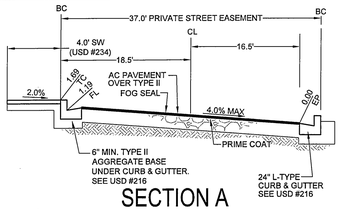
GRADING PLAN 4

PROFESSIONAL ENGINEER STATE OF NEVADA
MICHAEL A CUNNINGHAM Exp. 12-31-14 CIVIL No. 22027
11/4/13
ENGINEER'S SEAL

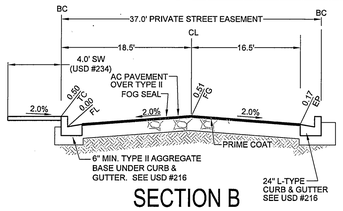
DATE: 10/30/2013
SCALE: 1"=30'
JOB NO: AST-12-002
DESIGNED BY: SF
CHECKED BY: MC
SHEET NAME: G4
SHEET: 06 OF 22

CLV

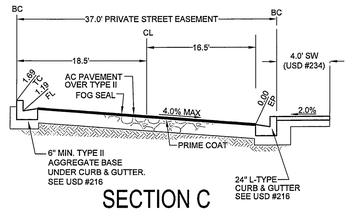
FILE NAME: 03_G1.DWG



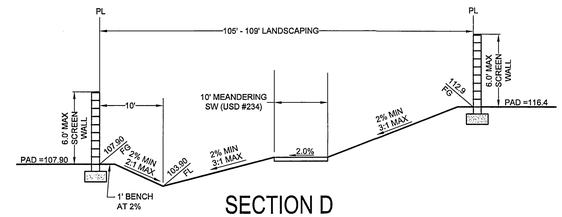
SECTION A
TYPICAL 41-FT WIDE PRIVATE DRIVE



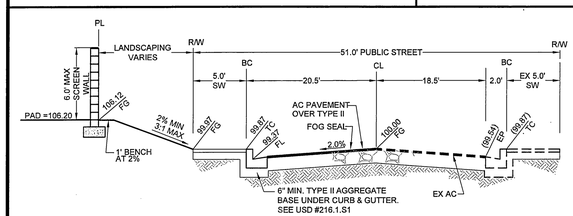
SECTION B
TYPICAL 41-FT WIDE PRIVATE DRIVE



SECTION C
TYPICAL 41-FT WIDE PRIVATE DRIVE

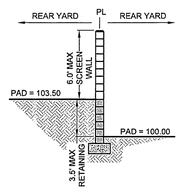


SECTION D

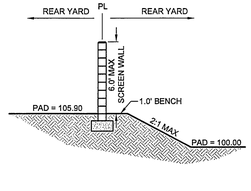


SECTION E - KERSEE ST.
51' PUBLIC STREET SECTION

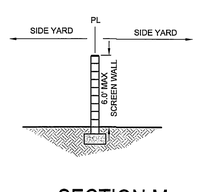
SECTION J
SIDE/SIDE YARDS



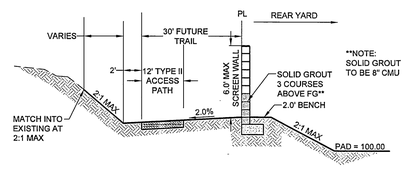
SECTION K
REAR/REAR YARDS



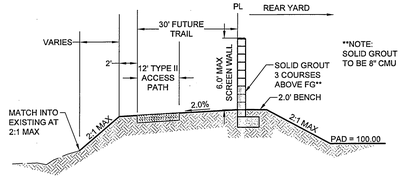
SECTION L
REAR/REAR YARDS



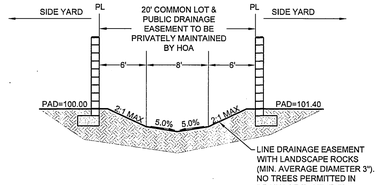
SECTION M
SIDE / SIDE YARD



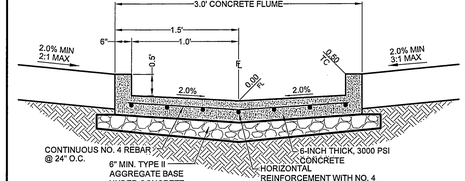
SECTION P
WEST BOUNDARY



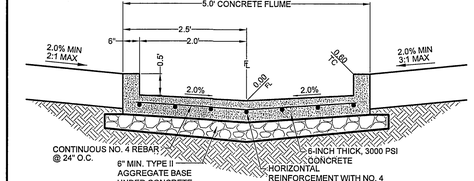
SECTION O
WEST BOUNDARY



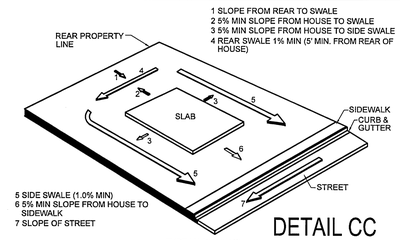
SECTION Z
20-FT DRAINAGE EASEMENT



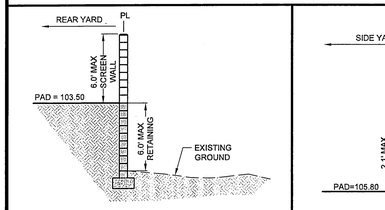
DETAIL AA
3.0' CONCRETE FLUME



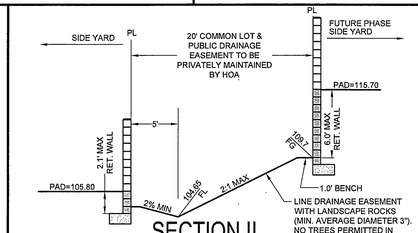
DETAIL BB
5.0' CONCRETE FLUME



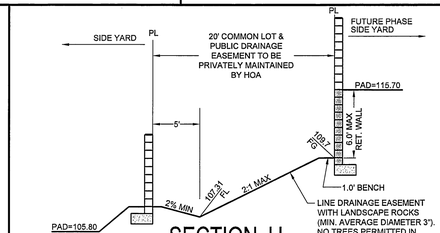
DETAIL CC
LOT DRAINAGE



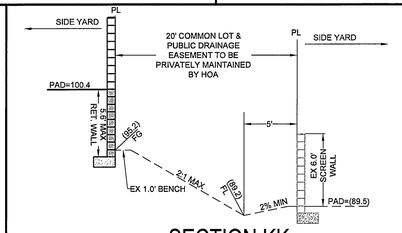
SECTION FF
SOUTHERN BOUNDARY



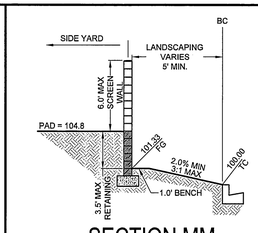
SECTION II
20-FT DRAINAGE EASEMENT



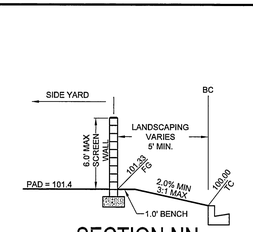
SECTION JJ
20-FT DRAINAGE EASEMENT



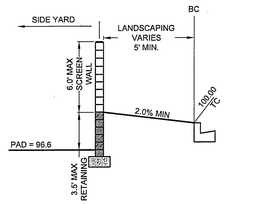
SECTION KK
20-FT DRAINAGE EASEMENT



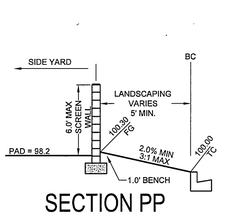
SECTION MM
SIDE CORNER YARDS



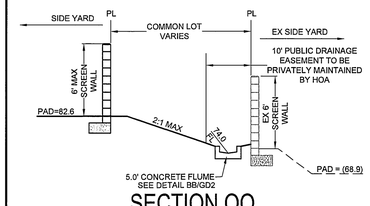
SECTION NN
SIDE CORNER YARDS



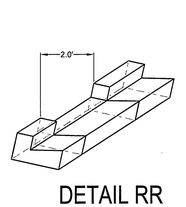
SECTION OO
SIDE CORNER YARDS



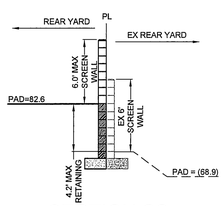
SECTION PP
SIDE CORNER YARDS



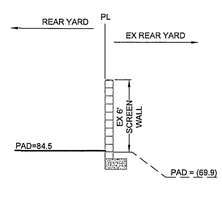
SECTION QQ
SIDE CORNER YARDS



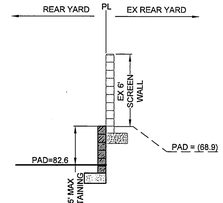
DETAIL RR
2' CURB CUT



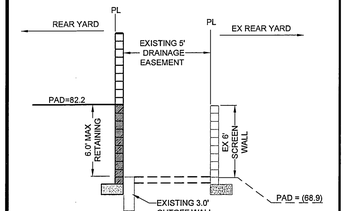
SECTION SS
EAST BOUNDARY



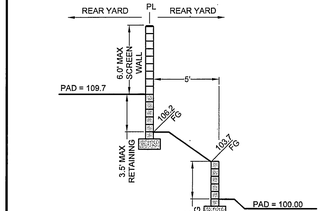
SECTION TT
EAST BOUNDARY



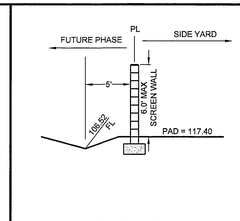
SECTION UU
EAST BOUNDARY



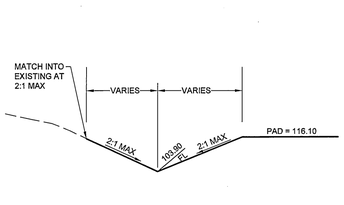
SECTION VV
EAST BOUNDARY



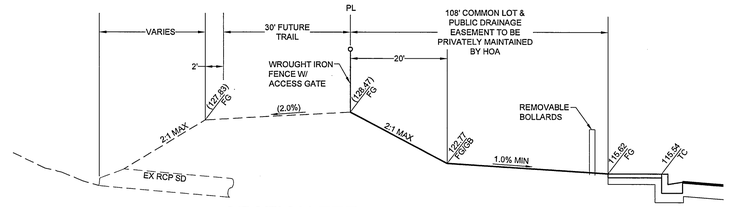
SECTION WW
REAR/REAR YARDS



SECTION XX
NORTH BOUNDARY



SECTION YY
DRAINAGE SWALE



SECTION EEE
TRAIL & DRAINAGE EASEMENT

FILE NAME: GRADING DETAILS.DWG

NO.	DESCRIPTION	SHTS.	APPR.	DATE
	REVISIONS			

THM ENTERPRISE LLC
10655 PARK RUN DRIVE SUITE #230
LAS VEGAS, NV 89144
(702) 853-8320 FAX: —

TAMEY ENGINEERING
6030 S. JONES BLVD. #100
LAS VEGAS, NV 89118
(702) 362-8844 FAX: (702) 362-5233

PEACEFUL RIDGE - PHASE 3
LONE MOUNTAIN & PULI
A RESIDENTIAL SUBDIVISION

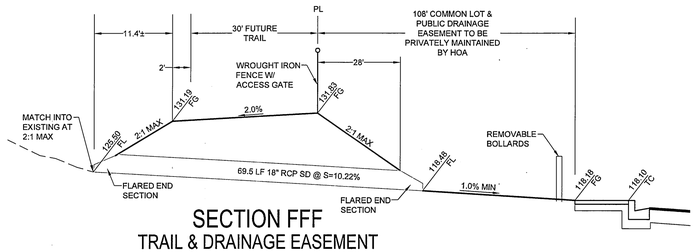
GRADING DETAILS AND SECTIONS

REGISTERED PROFESSIONAL ENGINEER — STATE OF NEVADA — MICHAEL A. CUNNINGHAM — Exp. 12-31-14 — CIVIL — No. 22027 — 11/4/13

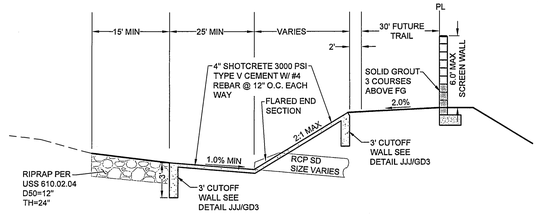
ENGINEER'S SEAL

DATE:	10/30/2013
SCALE:	NTS
JOB NO:	AST-12-002
DESIGNED BY:	SF
CHECKED BY:	MC
SHEET NAME:	GD1
SHEET:	07 OF 22

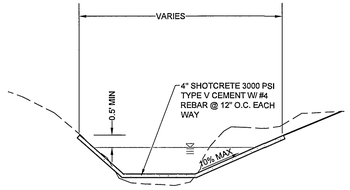
CLV



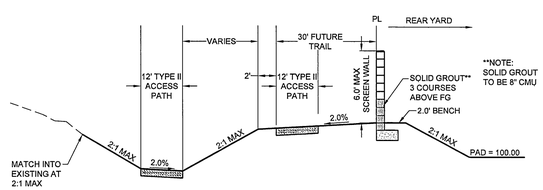
SECTION FFF
TRAIL & DRAINAGE EASEMENT



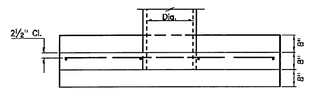
SECTION GGG
DRAINAGE ACCESS ROAD

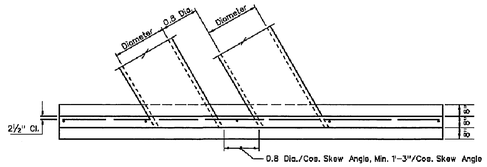


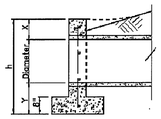
SECTION HHH
ACCESS ROAD & BERM

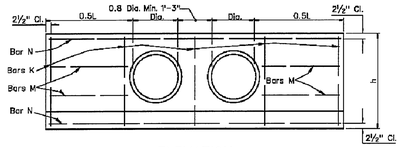


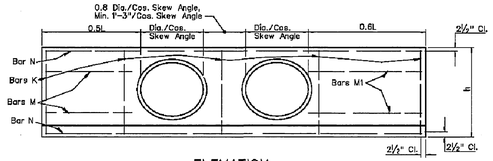
SECTION III
WEST BOUNDARY

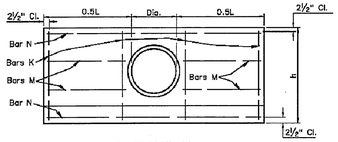


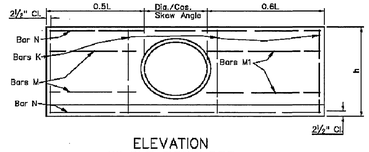












SHEET 1 OF 2

NEVADA DEPARTMENT OF TRANSPORTATION

CULVERT HEADWALLS
12" TO 36" RCP/HDPE

Signed Original On File	R-2.5.1	(SD2)
CHIEF HYDRAULICS ENGINEER	ADOPTED 8/98	REVISED 1/09

DETAIL YY
NDOT HEADWALL

QUANTITIES SHOWN BELOW ARE FOR TWO HEADWALLS.

RCP/ HDPE SIZE DIA.	RCP/ HDPE AREA SQ FT	SINGLE RCP/HDPE 0° SKEW CONC CU YD	0° SKEW STEEL LB	15° SKEW CONC CU YD	15° SKEW STEEL LB	30° SKEW CONC CU YD	30° SKEW STEEL LB	45° SKEW CONC CU YD	45° SKEW STEEL LB	DOUBLE RCP/HDPE 0° SKEW CONC CU YD	0° SKEW STEEL LB	15° SKEW CONC CU YD	15° SKEW STEEL LB	30° SKEW CONC CU YD	30° SKEW STEEL LB	45° SKEW CONC CU YD	45° SKEW STEEL LB	X	Y	L	h
12"	0.78	1.00	46	1.09	49	1.10	49	1.14	50	1.41	59	1.52	62	1.58	64	1.73	67	10"	T – 2"	4'	3'
15"	1.23	1.32	55	1.45	58	1.47	59	1.52	60	1.80	70	1.93	73	2.01	75	2.18	79	10½"	T – 2½"	5'	3' – 3½"
18"	1.77	1.82	69	1.77	73	1.80	74	1.85	75	2.15	83	2.31	89	2.40	91	2.60	96	10½"	T – 2½"	5' – 9"	3' – 7"
21"	2.41	1.95	77	2.13	82	2.16	83	2.23	85	2.59	95	2.79	101	2.90	103	3.13	108	10½"	T – 2½"	6' – 6"	3' – 10½"
24"	3.14	2.27	96	2.48	102	2.52	103	2.60	105	3.01	116	3.24	122	3.37	125	3.64	131	11"	T – 3"	7' – 3"	4' – 2"
27"	3.98	2.62	105	2.85	111	2.90	112	2.99	114	3.48	128	3.76	134	3.89	137	4.21	144	11"	T – 3"	8'	4' – 5"
30"	4.91	3.08	117	3.37	123	3.41	124	3.44	127	4.07	141	4.38	148	4.55	152	4.90	159	11½"	T – 3½"	9'	4' – 8"
33"	5.94	3.50	125	3.82	132	3.87	134	3.98	137	4.62	153	4.98	160	5.17	164	5.56	172	11½"	T – 3½"	9' – 6"	5' – ½"
36"	7.07	3.93	161	4.29	169	4.34	171	4.47	174	5.19	190	5.59	200	5.80	204	6.24	213	1'	T – 4"	10' – 6"	5' – 4"

QUANTITIES SHOWN BELOW ARE FOR ONE HEADWALL.

RCP/ HDPE SIZE DIA.	LENGTH OF REINFORCING BARS SINGLE RCP/HDPE 0°–45° NO. 4	0° NO. 5	15° NO. 5	30° NO. 5	45° NO. 5	SINGLE OR DOUBLE RCP/HDPE 0° NO. 4	15° NO. 4	15° M1	30° NO. 4	30° M1	45° NO. 4	45° M1	DOUBLE RCP/HDPE 0°–45° NO. 4	0° NO. 5	15° NO. 5	30° NO. 5	45° NO. 5
	K	N	N	N	N	M	M	M1	M	M1	M	M1	K	N	N	N	N
12"	6821'–9"	264' –9"	265' –2"	265' –4"	265' –7"	261' –7"	101' –5"	102' –1"	101' –4"	102' –2"	101' –1"	102' –5"	762' –9"	267'	267' –6"	267' –11"	268' –9"
15"	6831'–1"	265'	266' –5"	266' –8"	267'	262' –4"	101' –11"	102' –8"	101' –10"	102' –9"	101' –7"	103'	763' –1"	268' –5"	268' –2"	269' –7"	2610' –7"
18"	6831'–4"	267'	267' –8"	267' –10"	268' –2"	462' –5"	262' –3"	263' –1"	262' –2"	263' –2"	261' –11"	263' –5"	763' –4"	269' –9"	269' –5"	2610' –6"	2611'
21"	6831'–8"	268'	268' –9"	268' –11"	269' –5"	462' –9"	262' –7"	263' –6"	262' –6"	263' –7"	262' –3"	263' –10"	763' –8"	2611' –2"	2612'	2612' –7"	2613' –10"
24"	6831'–11"	269'	269' –10"	2610' –1"	2610' –7"	463' –2"	263'	264'	262' –11"	264' –1"	262' –8"	264' –4"	763' –11"	2612' –7"	2613' –7"	2614' –2"	2615' –8"
27"	6841'–2"	2610'	2610' –11"	2611' –2"	2611' –8"	463' –5"	263' –4"	264' –4"	263' –3"	264' –5"	263'	264' –8"	764' –2"	2614' –1"	2615' –1"	2615' –10"	2617' –6"
30"	6841'–6"	2611' –3"	2612' –3"	2612' –7"	2613' –2"	464'	263' –10"	265'	263' –9"	265' –1"	263' –8"	265' –4"	764' –6"	2615' –9"	2616' –11"	2617' –5"	2619' –7"
33"	6841'–10"	2612' –3"	2613' –4"	2613' –8"	2614' –4"	464' –3"	265' –1"	265' –3"	264'	265' –4"	263' –9"	265' –7"	764' –10"	2617' –3"	2618' –6"	2619' –3"	2621' –5"
36"	10065'–1"	2613' –3"	2614' –5"	2614' –9"	2615' –7"	664' –8"	364' –6"	365' –9"	364' –5"	365' –10"	364' –2"	365' –1"	1165' –7"	2618' –8"	2620'	2621'	2623' –2"

NOTES:

1. CONCRETE SHALL BE CLASS A OR AA.
2. REINFORCING STEEL SHALL BE DEFORMED BARS WITH MAXIMUM SPACING OF 18" SET 2½" CLEAR OF SURFACE OF CONCRETE EXCEPT AS NOTED. BAR ENDS SHALL BE KEPT ¾" CLEAR OF SURFACE OF CONCRETE. REINFORCING BARS MAY BE CUT AND BENT IN FIELD.
3. FOOTINGS SHOWN ARE OF MINIMUM DEPTH AND SHALL BE EXTENDED IF SOIL IS UNSUITABLE OR LIABLE TO SCOUR.
4. CULVERT PIPES TO BE SET ON A SKEW SHALL BE MITERED WHEN HEADWALLS ARE CONSTRUCTED. WHEN HEADWALLS ARE NOT CONSTRUCTED THE PIPES SHALL NOT BE MITERED EXCEPT IN OVERFLOW SECTION.
5. FOR ESTIMATING HEADWALL QUANTITIES ON SKEWED CULVERTS:
   0° to 10° – USE QUANTITIES FOR 0° SKEW.
   11° to 25° – USE QUANTITIES FOR 15° SKEW.
   26° to 40° – USE QUANTITIES FOR 30° SKEW.
   41° to 55° – USE QUANTITIES FOR 45° SKEW.
   OVER 55° – CALCULATE QUANTITIES REQUIRED.
   CULVERTS SHOULD BE INSTALLED ON 5° INCREMENTS WHERE IT IS FEASIBLE.
6. DIMENSIONS X,Y,L, AND h TO REMAIN CONSTANT REGUARDLESS OF MINOR VARIATIONS IN WALL THICKNESS DUE TO CLASS OR TYPE OF PIPE USED.
7. REFER TO SHEET R-2.9.1 FOR DETAILS IF CONNECTING TO HDPE PIPE.

SHEET 2 OF 2

NEVADA DEPARTMENT OF TRANSPORTATION

CULVERT HEADWALLS
12" TO 36" RCP/HDPE

Signed Original On File	R-2.5.1.1	(SD2)
CHIEF HYDRAULICS ENGINEER	ADOPTED 8/98	REVISED 1/09

NO.	DESCRIPTION	SH'TS.	APPR.	DATE
	REVISIONS			

THM ENTERPRISE LLC
10655 PARK RUN DRIVE SUITE #230
LAS VEGAS, NV 89144
(702) 853-5320 FAX: —

TANEY ENGINEERING
9030 S. JONES BLVD. STE. #100
LAS VEGAS, NV 89118
(702) 362-8844 FAX: (702) 362-5233

PEACEFUL RIDGE - PHASE 3
LONE MOUNTAIN & PULI
A RESIDENTIAL SUBDIVISION

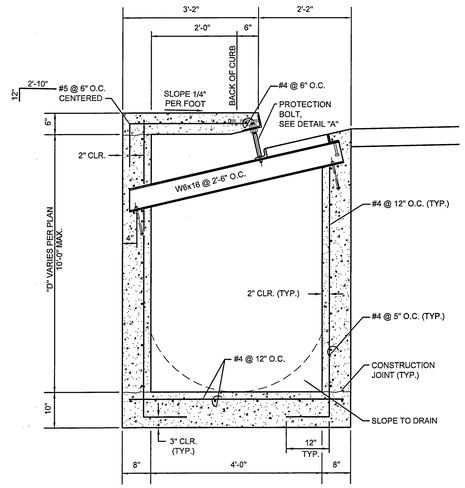
GRADING DETAILS AND CROSS SECTIONS

REGISTERED PROFESSIONAL ENGINEER
MICHAEL A. CUNNINGHAM
Exp. 12-31-14
CIVIL
No. 22021
STATE OF NEVADA
11/4/13
ENGINEER'S SEAL

DATE: 10/30/2013
SCALE: NTS
JOB NO: AST-12-002
DESIGNED BY: SF
CHECKED BY: MC
SHEET NAME: GD2
SHEET: 08 OF 22

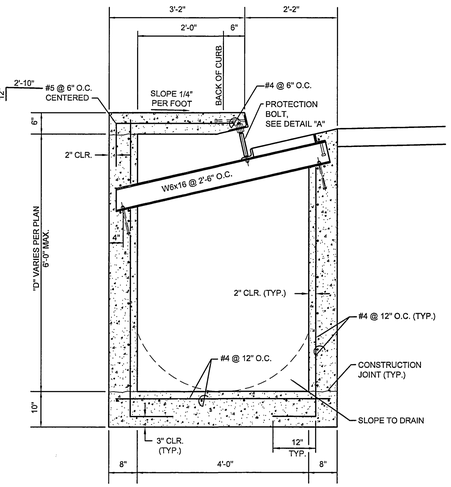
CLV

FILE NAME: GRADING DETAILS.DWG



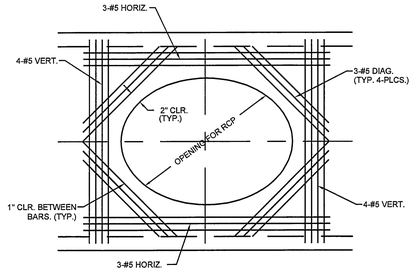
TYPE "CM" DROP INLET SECTION (8' TO 10' DEEP)

SCALE 3/4"=1'



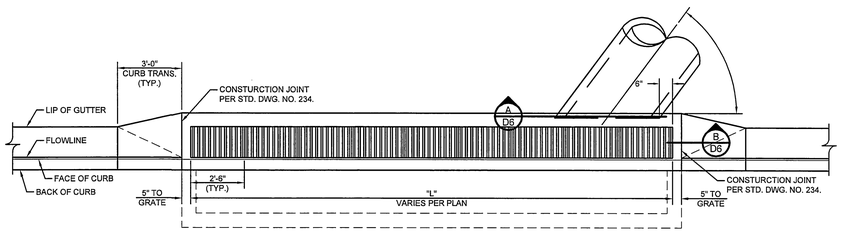
TYPE "CM" DROP INLET SECTION (6' DEEP MAX.)

SCALE 3/4"=1'



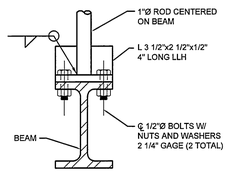
SECTION "A"

SCALE 3/4"=1'



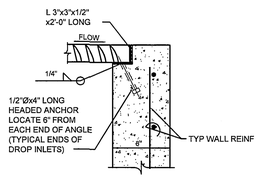
DROP INLET LAYOUT PLAN

SCALE 3/8"=1'



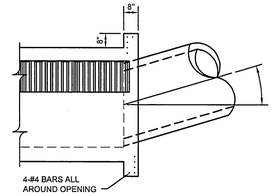
DETAIL "B"

SCALE 3"=1'



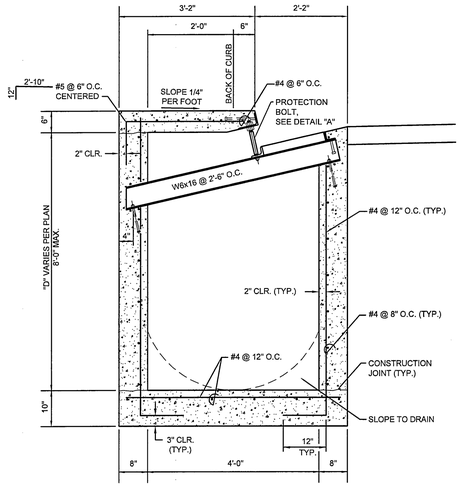
SECTION "B"

SCALE 1-1/2"=1'



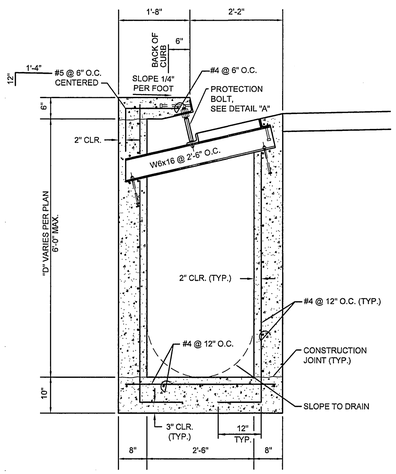
ALTERNATE CONNECTION DETAIL

SCALE 3/8"=1'



TYPE "CM" DROP INLET SECTION (6' TO 8' DEEP)

SCALE 3/4"=1'

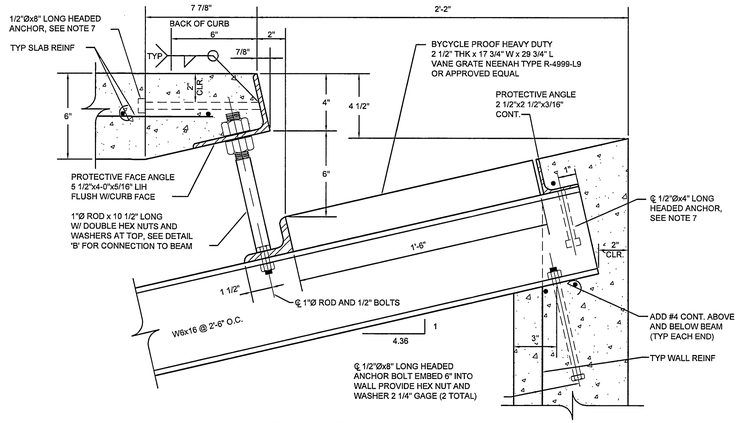


TYPE "DM" DROP INLET SECTION

SCALE 3/4"=1'

NOTES:

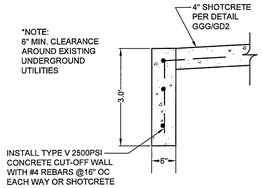
1. ALL EXPOSED METALS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.
2. PROVIDE 1/2" (MIN.) CLEARANCE ALL AROUND THE STEEL BEAM, DRY PACK AFTER INSTALLATION.
3. WHEN REQUIRED BY LENGTH OF OPENING, PLATE ANGLE MAYBE DELIVERED IN SECTIONS AND BUTT WELDED IN PLACE.
4. ALL GALVANIZING DAMAGED BY WELDING SHALL RECEIVE TWO COATS OF GALVALLOY OR EQUAL.
5. CONCRETE SHALL BE MODIFIED CLASS DA, SEE SPECIAL PROVISIONS SECTION 501.
6. SEE GENERAL NOTES FOR STRUCTURES ON DWG D8.
7. ANGLE ANCHORS SHALL BE EMBEDDED MIDPOINT IN EACH ENDWALL AND EVENLY SPACED. (MAXIMUM SPACING OF 2')



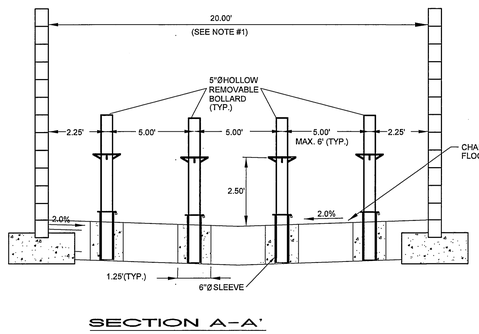
PROTECTIVE FACE & ROD – DETAIL "A"

SCALE 3"=1'

DETAIL XX
TYPE 'CM' DROP INLET



DETAIL JJJ
3.0' CUT-OFF WALL



SECTION A-A'

NOTE #1: 20' STANDARD WIDTH, DIFFERENT WIDTHS TO BE DESIGNED ACCORDINGLY.

DETAIL KKK
REMOVABLE BOLLARDS

ONE PERCENT MINIMUM SLOPE THROUGH DRAINAGE SLAB IS REQUIRED. WHERE A STORM DRAIN LINE IS AVAILABLE IN THE EXTERIOR STREET, A STORM DRAIN INLET AT THE BEGINNING OF THE EASEMENT AND AN 18-INCH MINIMUM STORM DRAIN PIPE IS REQUIRED TO COVEY NUISANCE WATER THROUGH THE EASEMENT.

GENERAL NOTE: GATE AND FENCE CONSTRUCTION IS INTENDED TO PREVENT STORAGE OF MATERIALS AND VEHICLES WITHIN CHANNEL. PREVENTION OF PEDESTRIAN USE MAY BE IMPAIRED, BUT THE DESIGN IS NOT INTENDED TO PREVENT PEDESTRIAN TRAFFIC. BOLLARDS MAY BE USED IN LIEU OF GATE IF PEDESTRIAN ACCESS IS DESIRED.

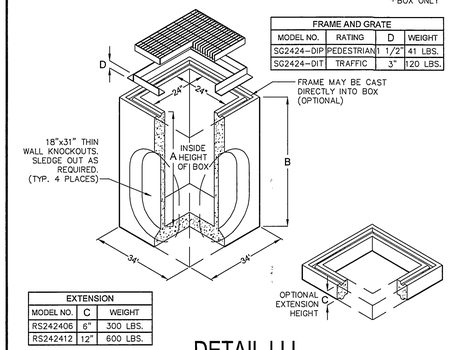
NOTE: BOLLARDS AND SLEEVE WILL BE EMBEDDED IN FRESH CONCRETE. WHEN PLACED IN HARDENED CONCRETE, THE SIZE OF THE CORINGS WILL BE 10" FOR BOLLARDS, AND 12" FOR SLEEVE BOLLARDS AND SLEEVE TO BE FULLY GROUTED WITH HIGH STRENGTH GROUT.

NOTE: ALL STEEL USED FOR BOLLARDS AND SLEEVE WILL BE SCHEDULE 40. EXPOSED STEEL WILL BE PRIMERED AND PAINTED YELLOW.

DROP INLET			
MODEL NO.	A	B	*WEIGHT
DI242436	36"	42"	1900 LBS.
DI242448	48"	54"	2500 LBS.

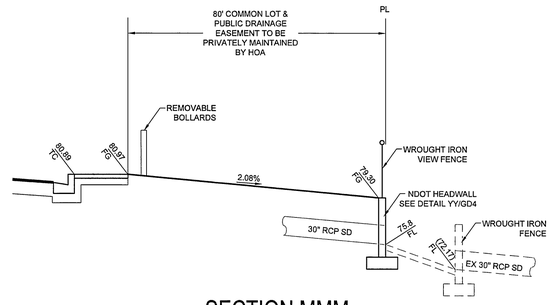
*BOX ONLY

FRAME AND GRATE			
MODEL NO.	RATING	D	WEIGHT
SG2424-DIP	PEDESTRIAN	1 1/2"	41 LBS.
SG2424-DIT	TRAFFIC	3"	120 LBS.



EXTENSION		
MODEL NO.	C	WEIGHT
RS242406	6"	300 LBS.
RS242412	12"	600 LBS.

DETAIL LLL
24" X 24" JENSEN PRECAST DROP INLET



SECTION MMM
TRAIL & DRAINAGE EASEMENT

FILE NAME: GRADING DETAILS.DWG

THM ENTERPRISE LLC
10855 PARK RUN DRIVE SUITE #230
LAS VEGAS, NV 89144
(702) 853-5320 FAX: —

TAMEY ENGINEERING
8043 S. JONES BLVD. STE# 100
LAS VEGAS, NV 89118
(702) 362-8844 FAX: (702) 362-5233

NO.	DESCRIPTION	SH'TS.	APPR.	DATE
	REVISIONS			

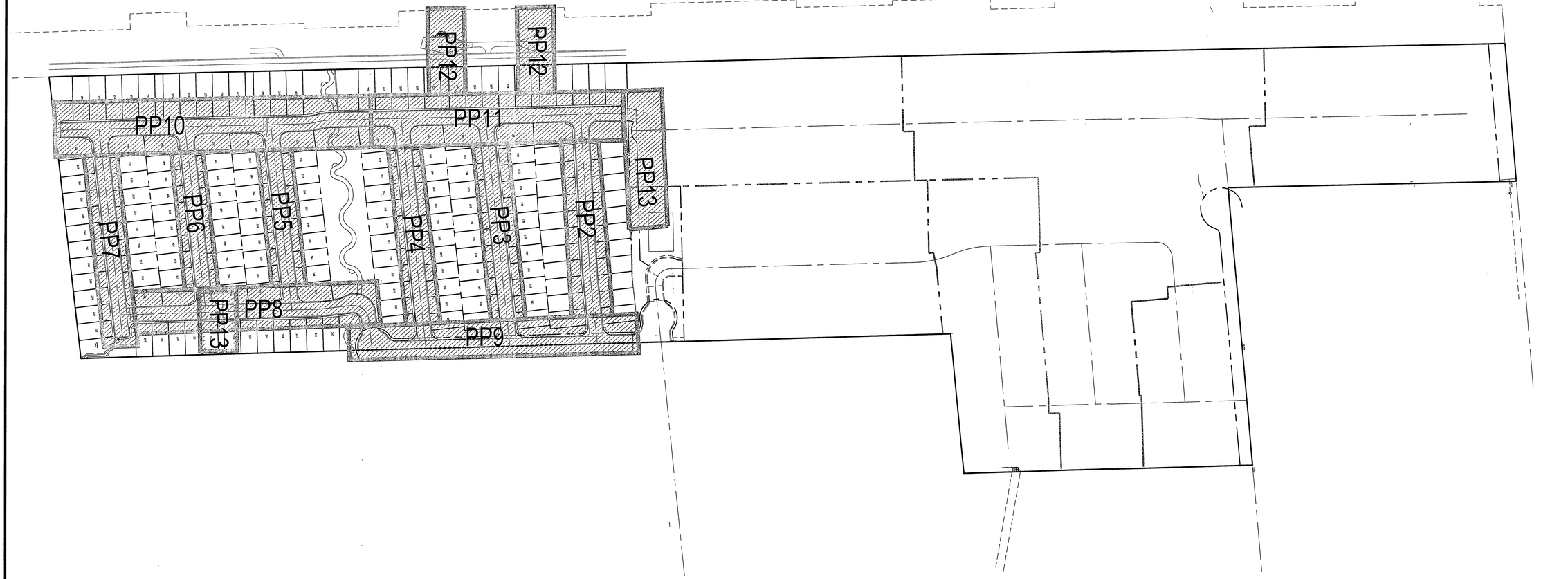
PEACEFUL RIDGE - PHASE 3
LONE MOUNTAIN & PULI
A RESIDENTIAL SUBDIVISION

GRADING DETAILS AND CROSS SECTIONS

REGISTERED PROFESSIONAL ENGINEER STATE OF NEVADA
MICHAEL A. CUNNINGHAM Exp. 12-31-14 CIVIL No. 22021
11/4/13
ENGINEER'S SEAL

DATE: 10/30/2013
SCALE: NTS
JOB NO: AST-12-002
DESIGNED BY: SF
CHECKED BY: MC
SHEET NAME: GD3
SHEET: 09 OF 22

CLV



SCALE

120 0 60 120 240 480

(IN FEET)
1 inch = 120ft.

EARTHWORK

TOTAL FOR OVERALL DEVELOPMENT: 294,814 CY CUT
278,664 CY FILL

THIS OPINION OF THE CUT AND FILL QUANTITIES IS PROVIDED AS REQUIRED BY CLARK COUNTY BUILDING CODE REQUIREMENTS. THIS INFORMATION SHOULD NOT BE USED FOR BIDDING PURPOSES. ALL CONTRACTORS ARE RESPONSIBLE FOR THEIR OWN QUANTITIES. THESE TOTALS ARE RAW AND DO NOT ACCOUNT FOR SHRINKAGE AND SUBSIDENCE.

UTILITY DISCLAIMER NOTE

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CALL BEFORE YOU DIG: 1-800-227-2600
CALL BEFORE YOU OVERHEAD: 1-702-227-2929

GEOTECHNICAL

GEOTEK RESIDENTIAL, LLC.
6835 S. ESCONDIDO ST. STE. B
LAS VEGAS, NEVADA 89119
702-897-1424

REPORT NO: 10944-LVR6
DATE 10/30/2012

LEGAL DESCRIPTION

APN #: 137-01-101-001, 009, 010, 011,
137-01-201-001, 002, 003, 011,
012, 137-01-301-001, & 002

GRADING NOTES

ADD 2900 FEET TO ALL GRADE TAGS TO GET ACTUAL ELEVATION.

THE ELEVATION DIFFERENCE BETWEEN THE PAD AND FINISH FLOOR IS DETERMINED FROM THE MINIMUM THICKNESS REQUIRED PER THE GEOTECHNICAL REPORT. FINISH FLOORS MAY INCREASE DEPENDING ON THE TYPE OF SOIL AND FOUNDATION PLAN USED. NOTE THAT THE STRUCTURAL PLANS & GEOTECHNICAL REPORT SHALL SUPERSEDE THE CIVIL IMPROVEMENT PLANS.

ALL PRIVATE STREETS AND DRAINAGE EASEMENTS ARE TO BE PRIVATELY OWNED AND MAINTAINED BY THE HOMEOWNERS ASSOCIATION (H.O.A.).

ALL WORK TO BE PERFORMED OUTSIDE OF THE PROJECT BOUNDARY AND ON PRIVATE PROPERTY SHALL NOT BE PERFORMED UNTIL WRITTEN PERMISSION AND EASEMENTS HAVE BEEN OBTAINED FROM THE OFFSITE OWNER AND GIVEN TO CITY OF LAS VEGAS.

CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING UTILITIES AND NOTIFY THE DESIGN ENGINEER IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

BENCHMARK

PROJECT VERTICAL DATUM: NAVD88
CITY OF LAS VEGAS BENCHMARK 1LV09-1W6
NAVD88 ELEV: 895.0609M 2936.55 FT
RIVET AND PLATE IN TOP OF CURB AT NORTHEAST
CORNER OF CLIFF SHADOWS AND DIEGOVILLE.

BASIS OF BEARINGS

SOUTH 87°47'07" WEST, BEING THE BEARING OF THE SOUTH LINE OF THE NORTHWEST QUARTER (NW1/4) OF THE SOUTHWEST QUARTER (SW1/4) OF SECTION 1, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY NEVADA, AS SHOWN BY MAP THEREOF ON FILE IN BOOK 113, PAGE 87 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

FLOOD ZONE

THIS PROJECT IS LOCATED IN FLOODZONE "X" WHICH IS AN AREA DETERMINED TO BE OUTSIDE OF THE 0.20% ANNUAL CHANCE FLOODPLAIN PER FIRM PANEL 32003C2150E, MAP REVISED SEPTEMBER 27, 2002

FILE NAME: P&P 1-6.DWG

NO.	DESCRIPTION	SHTS.	APPR.	DATE
	REVISIONS			

THM ENTERPRISE LLC
10655 PARK RUN DRIVE SUITE #230
LAS VEGAS, NV 89144
(702) 853-6320 FAX: —

TANEY ENGINEERING
6030 S. JONES BLVD. STE #100
LAS VEGAS, NV 89118
(702) 362-8844 FAX: (702) 362-9233

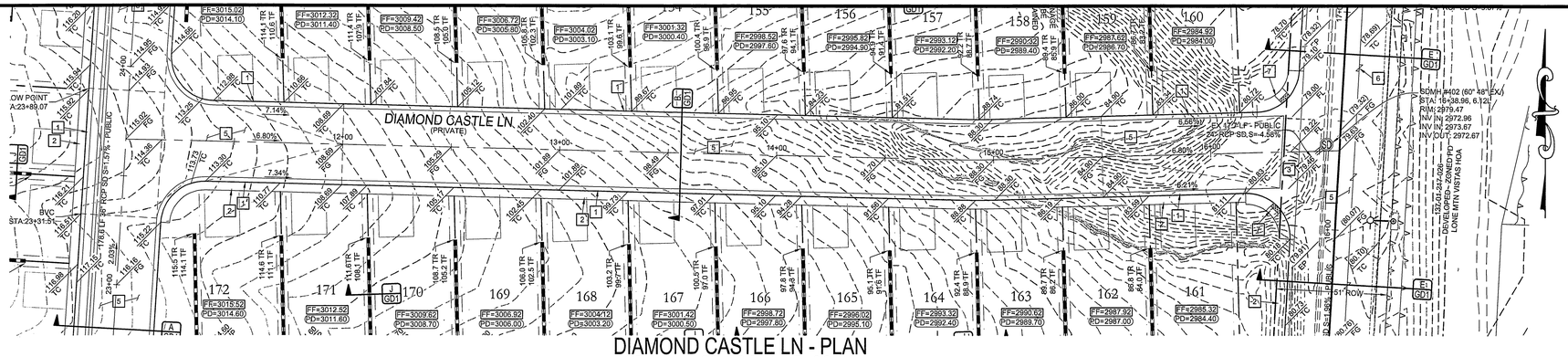
PEACEFUL RIDGE - PHASE 3
LONE MOUNTAIN & PULI
A RESIDENTIAL SUBDIVISION

PLAN AND PROFILE
KEY MAP

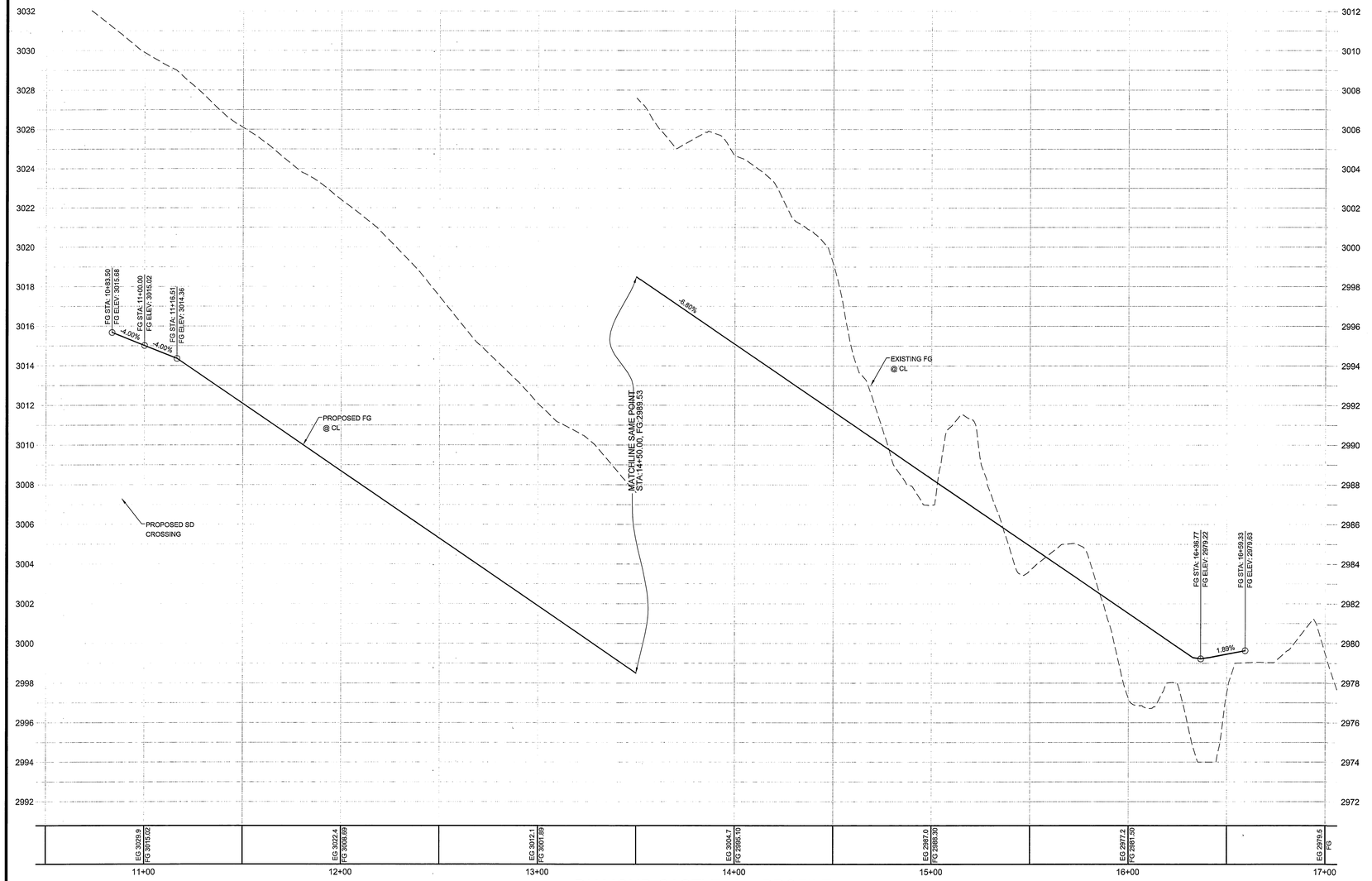
REGISTERED PROFESSIONAL ENGINEER
MICHAEL A. CUNNINGHAM
Exp. 12-31-14
CIVIL
No. 22027
STATE OF NEVADA
11/4/13
ENGINEER'S SEAL

DATE: 10/30/2013
SCALE: 1"=120'
JOB NO: AST-12-002
DESIGNED BY: SF
CHECKED BY: MC
SHEET NAME: PP1
SHEET: 10 OF 22

CLV



DIAMOND CASTLE LN - PLAN
STA: 11+00.00 TO 17+00.00



DIAMOND CASTLE LN - PROFILE
STA: 11+00.00 TO 17+00.00
SCALE: 1"=30' HORIZ., 1"=3' VERT.

CONSTRUCTION NOTES

1. 24" L-TYPE CURB & GUTTER (USD #216)
2. 4.0' SIDEWALK (USD #234)
3. 8.0' CROSS GUTTER (USD #228)
4. 5.0' SIDEWALK (USD #234)
5. AC PAVEMENT OVER TYPE II (PER GEOTECHNICAL REPORT)
6. SAWCUT & MATCH EXISTING AC PAVEMENT
7. SIDEWALK RAMP USING ARMOR TILE TRUNCATED DOMES OR EQUIVALENT (USD #235)
8. RESIDENTIAL DRIVEWAY (USD #223)
9. SIDEWALK UNDERDRAIN (USD #236)
10. 10' MEANDERING SIDEWALK (USD #234)
11. 3.0' CONCRETE FLUME (SEE DETAIL AA/GD1)
12. A-TYPE CURB (USD #219)
13. INSTALL WROUGHT IRON FENCE AND ACCESS GATE
14. 5.0' CONCRETE FLUME (SEE DETAIL BB/GD1)
15. RIPRAP: D50=12", THICKNESS=24"
16. 2.0' CURB OPENING (SEE DETAIL RR/GD1)
17. NDOT HEADWALL (SEE DETAIL YY/GD3)
18. 4" COMPACTED TYPE II AGGREGATE
19. INSTALL REMOVABLE LOCKING BOLLARDS (SEE DETAIL GGG/GD3)
20. 4" SHOTCRETE 3000 PSI TYPE V CEMENT W/ #4 REBAR @12" O.C. EACH WAY

DRAINAGE EASEMENT NOTE

ALL DRAINAGE EASEMENTS ARE PUBLIC DRAINAGE EASEMENTS TO BE PRIVATELY MAINTAINED BY THE HOA

SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

LEGAL DESCRIPTION

APN #: 137-01-101-001, 009, 010, 011,
137-01-201-001, 002, 003, 011,
012, 137-01-301-001, & 002

BENCHMARK

PROJECT VERTICAL DATUM: NAVD88
CITY OF LAS VEGAS BENCHMARK 1LV09-1W8
NAVD88 ELEV: 895.0609M 2936.55 FT
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GEOTECHNICAL

GEOTEK RESIDENTIAL, LLC.
6835 S. ESCONDIDO ST. STE. B
LAS VEGAS, NEVADA 89119
702-897-1424

REPORT NO: 10944-LVR6
DATE 10/30/2012

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Call Before You Dig
AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.
CALL 811
OR
1-800-227-2600

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.
CALL BEFORE YOU DO OVERHEAD
1-702-227-2929

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CALL BEFORE YOU DIG: 1-800-227-2600
CALL BEFORE YOU OVERHEAD: 1-702-227-2929

APPROVAL BLOCK

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER DATE
(PROJ#)

NO.	DESCRIPTION	SH'TS.	APPR.	DATE

REVISIONS

THM ENTERPRISE LLC
10655 PARK RUN DRIVE SUITE #230
LAS VEGAS, NV 89144
(702) 855-8320 FAX: —

TANEY ENGINEERING
6030 S. JONES BLVD. SUITE 100
LAS VEGAS, NV 89118
(702) 362-8844 FAX: (702) 362-8233

PEACEFUL RIDGE - PHASE 3
LONE MOUNTAIN & PULI
A RESIDENTIAL SUBDIVISION

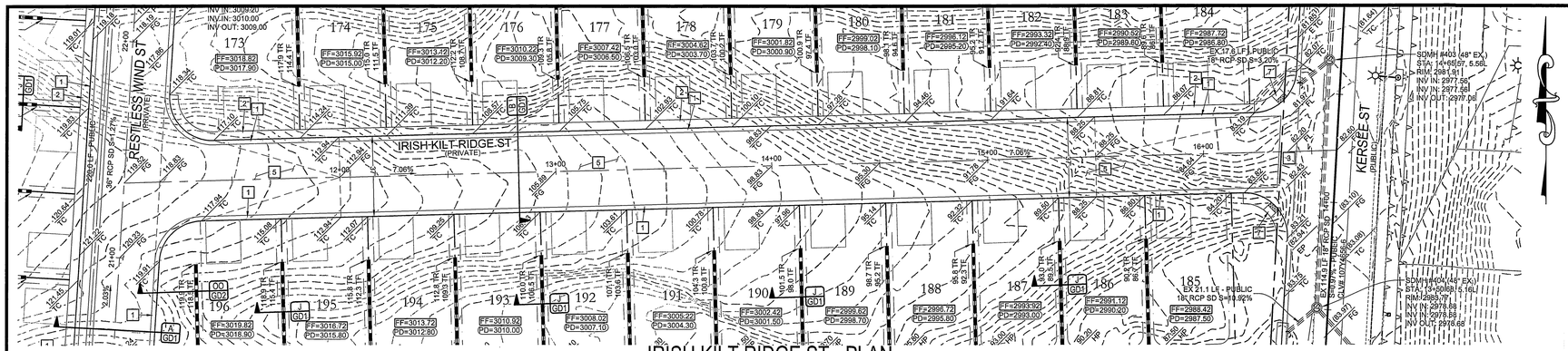
DIAMOND CASTLE
PLAN AND PROFILE

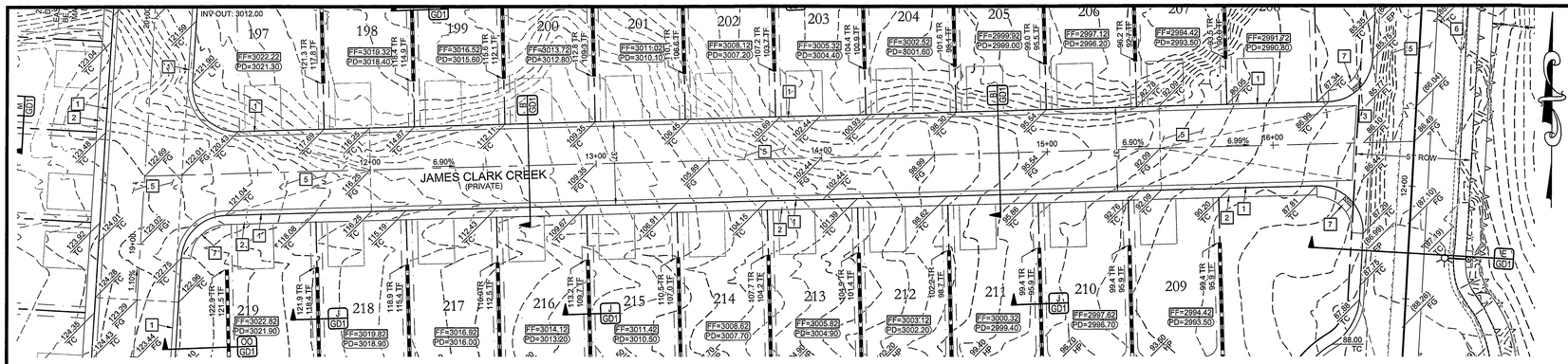
MICHAEL A. CUNNINGHAM
Exp. 12-31-14
CIVIL
No. 22021
STATE OF NEVADA
REGISTERED PROFESSIONAL ENGINEER
10/4/13
ENGINEER'S SEAL

DATE: 10/30/2013
SCALE: 1"=30'
JOB NO: AST-12-002
DESIGNED BY: SF
CHECKED BY: MC
SHEET NAME: PP2
SHEET: 11 OF 22

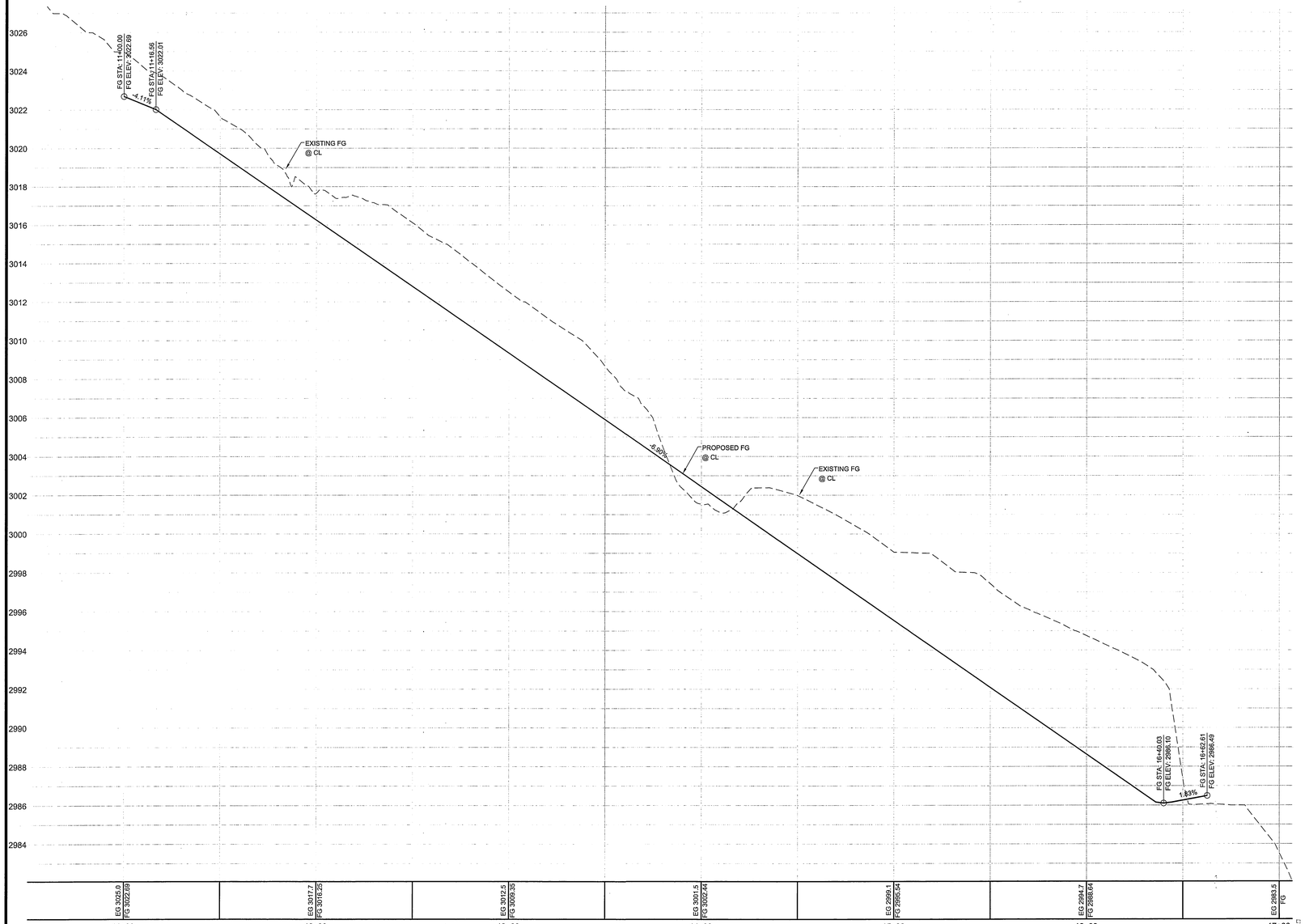
CLV

FILE NAME: P&P 1-6.DWG


RESTLESS WIND ST
(PRIVATE)
IRISH KILT RIDGE ST
(PRIVATE)
KERSEE ST
(PUBLIC)
SDMH #403 (48" EX.)
STA: 14+66.97, 5.56L
RIM: 2981.91
INV IN: 2977.56
INV IN: 2977.26
INV OUT: 2977.06
SDMH #404 (48" EX.)
STA: 15+50.58, 5.16L
RIM: 2983.70
INV IN: 2978.89
INV IN: 2978.59
INV OUT: 2978.68
EX 21.1 LF - PUBLIC
18" RCP SD S=10.92%
EX 17.8 LF - PUBLIC
18" RCP SD S=3.20%
EX 149.1 LF - PUBLIC
18" RCP SD S=7.06



JAMES CLARK CREEK - PLAN
STA: 11+00.00 TO 17+00.00



JAMES CLARK CREEK - PROFILE
STA: 11+00.00 TO 17+00.00
SCALE: 1"=30' HORIZ., 1"=3' VERT.

FILE NAME: P&P 1-6.DWG

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19. INSTALL REMOVABLE LOCKING BOLLARDS (SEE DETAIL GGG/GD3)
20. 4" SHOTCRETE 3000 PSI TYPE V CEMENT W/ #4 REBAR @12" O.C. EACH WAY

DRAINAGE EASEMENT NOTE

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SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

LEGAL DESCRIPTION

APN #: 137-01-101-001, 009, 010, 011,
137-01-201-001, 002, 003, 011,
012, 137-01-301-001, & 002

BENCHMARK

PROJECT VERTICAL DATUM: NAVD88
CITY OF LAS VEGAS BENCHMARK 1LV09-1W6
NAVD88 ELEV: 895.0609M 2936.55 FT
RIVET AND PLATE IN TOP OF CURB AT NORTHEAST
CORNER OF CLIFF SHADOWS AND DIEGOVILLE.

BASIS OF BEARINGS

SOUTH 87°47'07" WEST, BEING THE BEARING OF THE SOUTH LINE OF THE NORTHWEST QUARTER (NW1/4) OF THE SOUTHWEST QUARTER (SW1/4) OF SECTION 1, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY NEVADA, AS SHOWN BY MAP THEREOF ON FILE IN BOOK 113, PAGE 87 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

GEOTECHNICAL

GEOTEK RESIDENTIAL, LLC.
6835 S. ESCONDIDO ST. STE. B
LAS VEGAS, NEVADA 89119
702-897-1424

REPORT NO: 10944-LVR6
DATE 10/30/2012

GRADING NOTES

ADD 2900 FEET TO ALL GRADE TAGS TO GET ACTUAL ELEVATION.

THE ELEVATION DIFFERENCE BETWEEN THE PAD AND FINISH FLOOR IS DETERMINED FROM THE MINIMUM THICKNESS REQUIRED PER THE GEOTECHNICAL REPORT. FINISH FLOORS MAY INCREASE DEPENDING ON THE TYPE OF SOIL AND FOUNDATION PLAN USED. NOTE THAT THE STRUCTURAL PLANS & GEOTECHNICAL REPORT SHALL SUPERSEDE THE CIVIL IMPROVEMENT PLANS.

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FLOOD ZONE

THIS PROJECT IS LOCATED IN FLOODZONE "X" WHICH IS AN AREA DETERMINED TO BE OUTSIDE OF THE 0.20% ANNUAL CHANCE FLOODPLAIN PER FIRM PANEL 32003C2150E, MAP REVISED SEPTEMBER 27, 2002

Call Before You Dig
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CALL 811
OR
1-800-227-2600

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1-702-227-2929

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APPROVAL BLOCK

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER DATE
(PROJ#)

NO.	DESCRIPTION	SH'TS.	APPR.	DATE

REVISIONS

THM ENTERPRISE LLC
10655 PARK RUN DRIVE SUITE #230
LAS VEGAS, NV 89144
(702) 853-5320 FAX: —

TAMEY E NGINEERING
6835 S. JONES BLVD, STE #100
LAS VEGAS, NV 89118
(702) 362-8844 FAX: (702) 362-5333

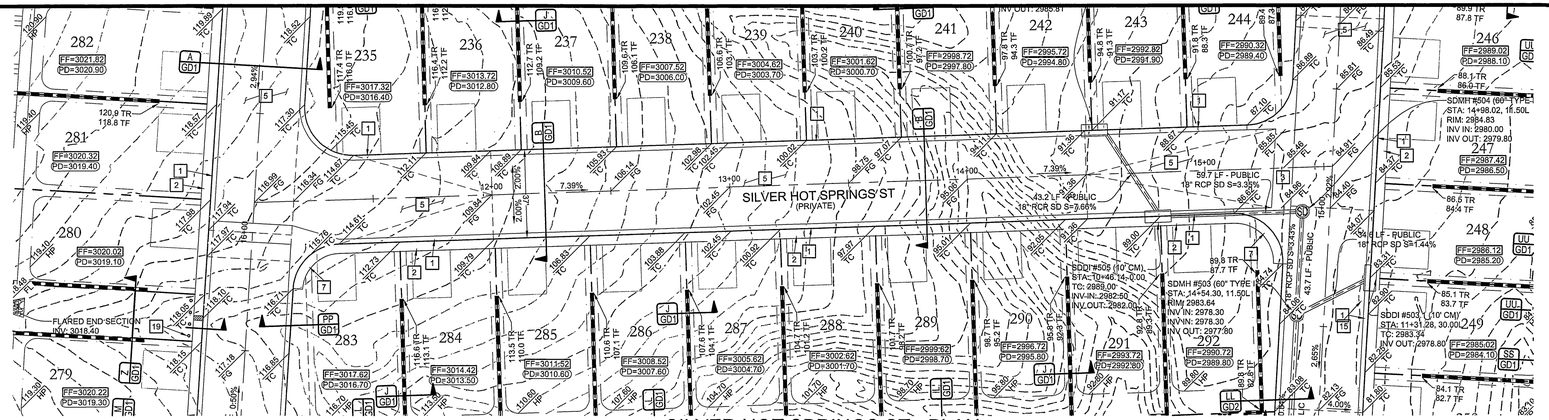
PEACEFUL RIDGE - PHASE 3
LONE MOUNTAIN & PULI
A RESIDENTIAL SUBDIVISION

JAMES CLARK CREEK
PLAN AND PROFILE

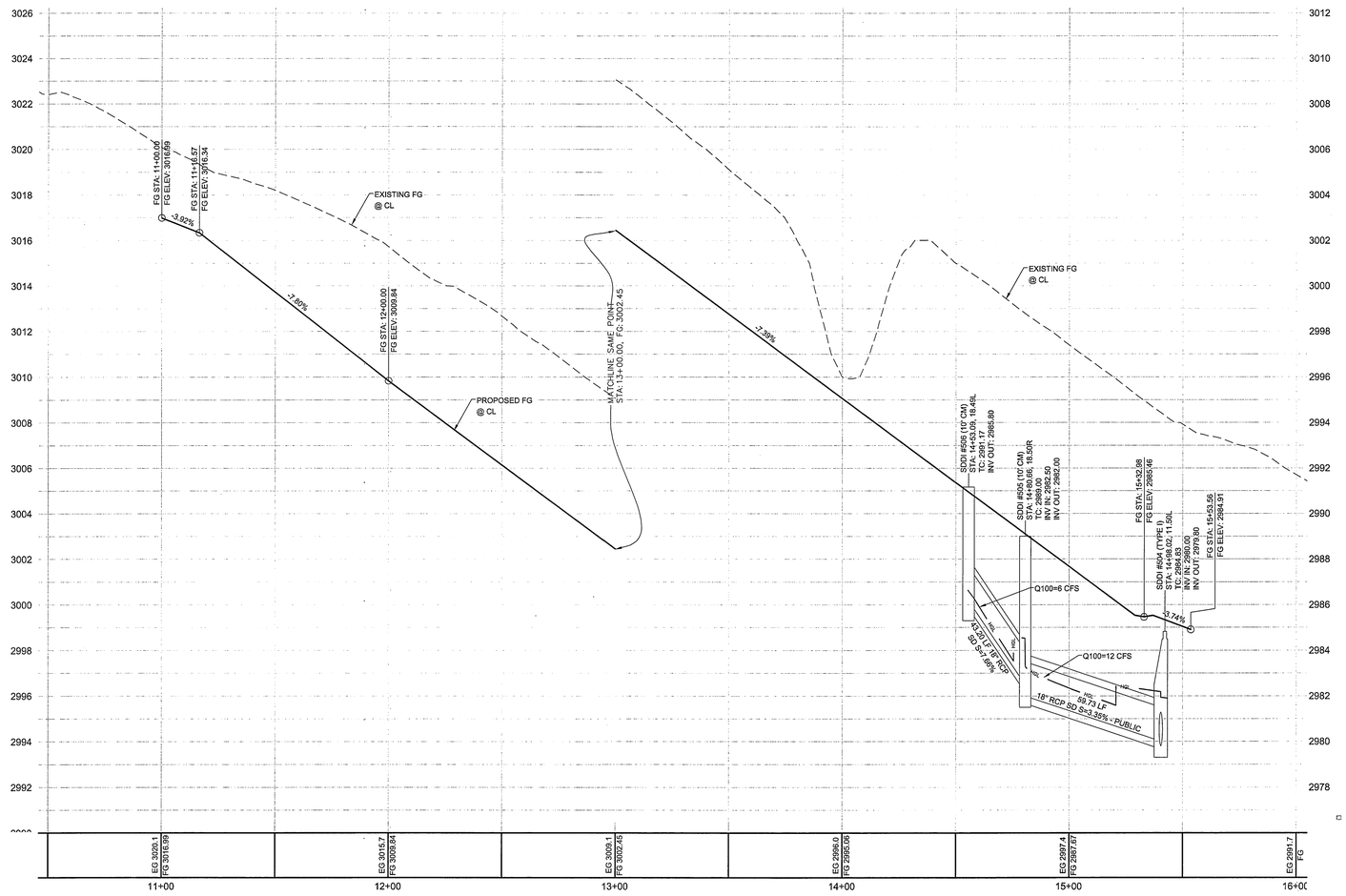
REGISTERED PROFESSIONAL ENGINEER
MICHAEL A CUNNINGHAM
Exp. 12-31-14
CIVIL
No. 22021
STATE OF NEVADA
11/4/13
ENGINEER'S SEAL

DATE:	10/30/2013
SCALE:	1"=30'
JOB NO:	AST-12-002
DESIGNED BY:	SF
CHECKED BY:	MC
SHEET NAME:	PP4
SHEET:	13 OF 22

CLV



SILVER HOT SPRINGS ST - PLAN
STA: 11+00.00 TO 16+00.00



SILVER HOT SPRINGS ST - PROFILE
STA: 11+00.00 TO 16+00.00
SCALE: 1"=30' HORIZ., 1"=3' VERT.

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11. 3.0' CONCRETE FLUME (SEE DETAIL AA/GD1)
12. A-TYPE CURB (USD #219)
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14. 5.0' CONCRETE FLUME (SEE DETAIL BB/GD1)
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CITY OF LAS VEGAS BENCHMARK 1LV09-1W6
NAVD88 ELEV: 895.0609M 2936.55 FT
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GEOTECHNICAL

GEOTEK RESIDENTIAL, LLC.
6835 S. ESCONDIDO ST. STE. B
LAS VEGAS, NEVADA 89119
702-897-1424

REPORT NO: 10944-LVR6
DATE 10/30/2012

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APPROVAL BLOCK

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER DATE
(PROJ#)

NO.	DESCRIPTION	SHTS.	APPR.	DATE
	REVISIONS			

THM ENTERPRISE LLC
10855 PARK RUN DRIVE SUITE #220
LAS VEGAS, NV 89144
(702) 853-8320 FAX: —

TANEY ENGINEERING
8040 S. JONES BLVD. STE 100
LAS VEGAS, NV 89118
(702) 362-8844 FAX: (702) 362-5333

PEACEFUL RIDGE - PHASE 3
LONE MOUNTAIN & PULI
A RESIDENTIAL SUBDIVISION

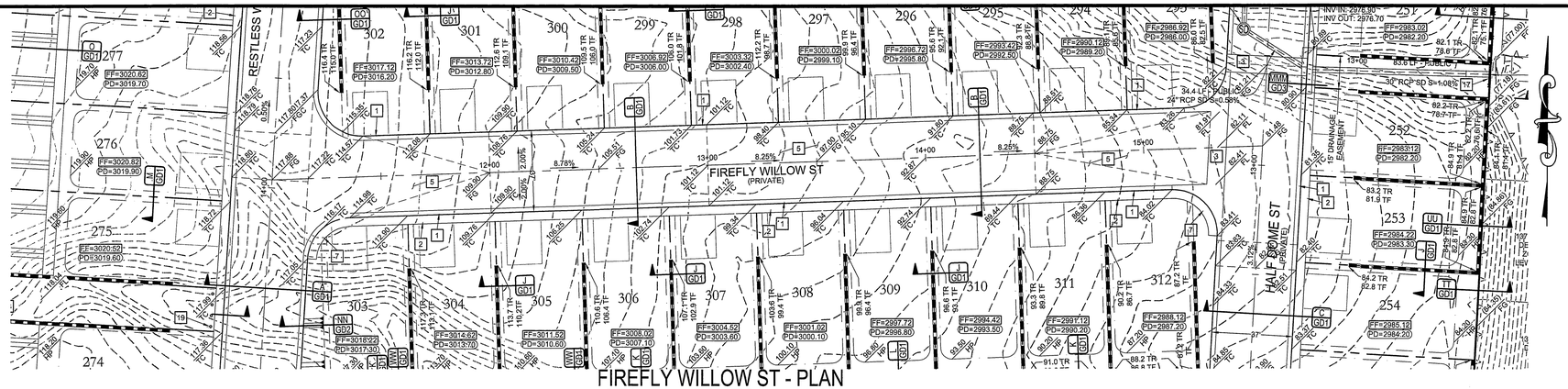
SILVER HOT SPRINGS
PLAN AND PROFILE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL A. CUNNINGHAM Exp. 12-31-14 CIVIL No. 22021 — STATE OF NEVADA
10/30/13
ENGINEER'S SEAL

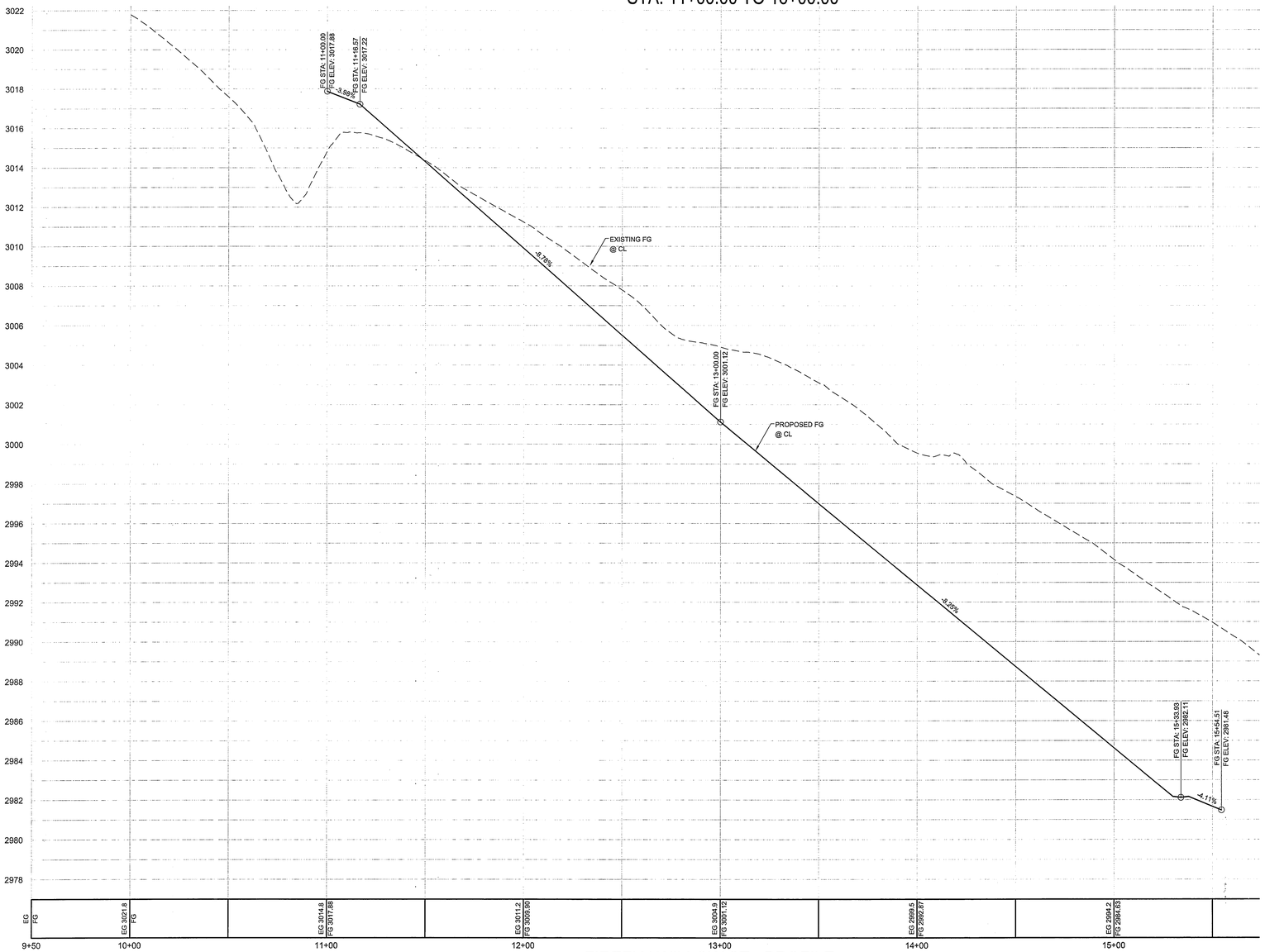
DATE: 10/30/2013
SCALE: 1"=30'
JOB NO: AST-12-002
DESIGNED BY: SF
CHECKED BY: MC
SHEET NAME: PP5
SHEET: 14 OF 22

CLV

FILE NAME: P&P 1-6.DWG



FIREFLY WILLOW ST - PLAN
STA: 11+00.00 TO 16+00.00



FIREFLY WILLOW ST - PROFILE
STA: 11+00.00 TO 16+00.00
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BENCHMARK

PROJECT VERTICAL DATUM: NAVD88
CITY OF LAS VEGAS BENCHMARK 1LV09-1W6
NAVD88 ELEV: 895.0609M 2936.55 FT
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GEOTECHNICAL

GEOTEK RESIDENTIAL, LLC.
6835 S. ESCONDIDO ST. STE. B
LAS VEGAS, NEVADA 89119
702-897-1424

REPORT NO: 10944-LVR6
DATE 10/30/2012

GRADING NOTES

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APPROVAL BLOCK

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER DATE
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NO.	DESCRIPTION	SHTS.	APPR.	DATE

REVISIONS

THM ENTERPRISE LLC
10855 PARK RUN DRIVE SUITE #230
LAS VEGAS, NV 89144
(702) 853-8320 FAX: —

TANEY ENGINEERING
6030 S. JONES BLVD. STE 100
LAS VEGAS, NV 89118
(702) 362-8844 FAX: (702) 362-5533

PEACEFUL RIDGE - PHASE 3
LONE MOUNTAIN & PULI
A RESIDENTIAL SUBDIVISION

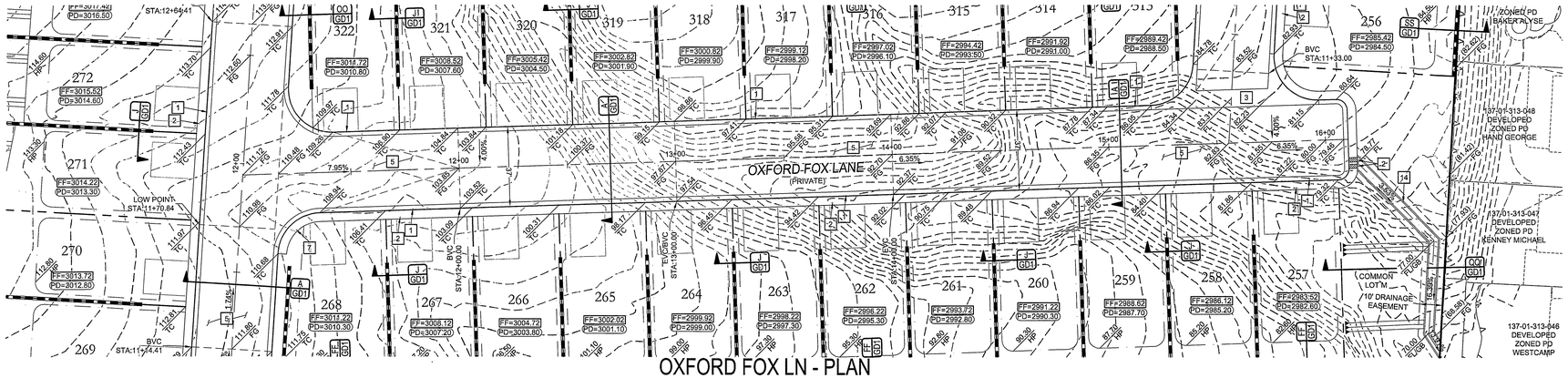
FIREFLY WILLOW
PLAN AND PROFILE

PROFESSIONAL ENGINEER STATE OF NEVADA
MICHAEL A. CUNNINGHAM
Exp. 12-31-14
CIVIL
No. 22021
11/4/13
ENGINEER'S SEAL

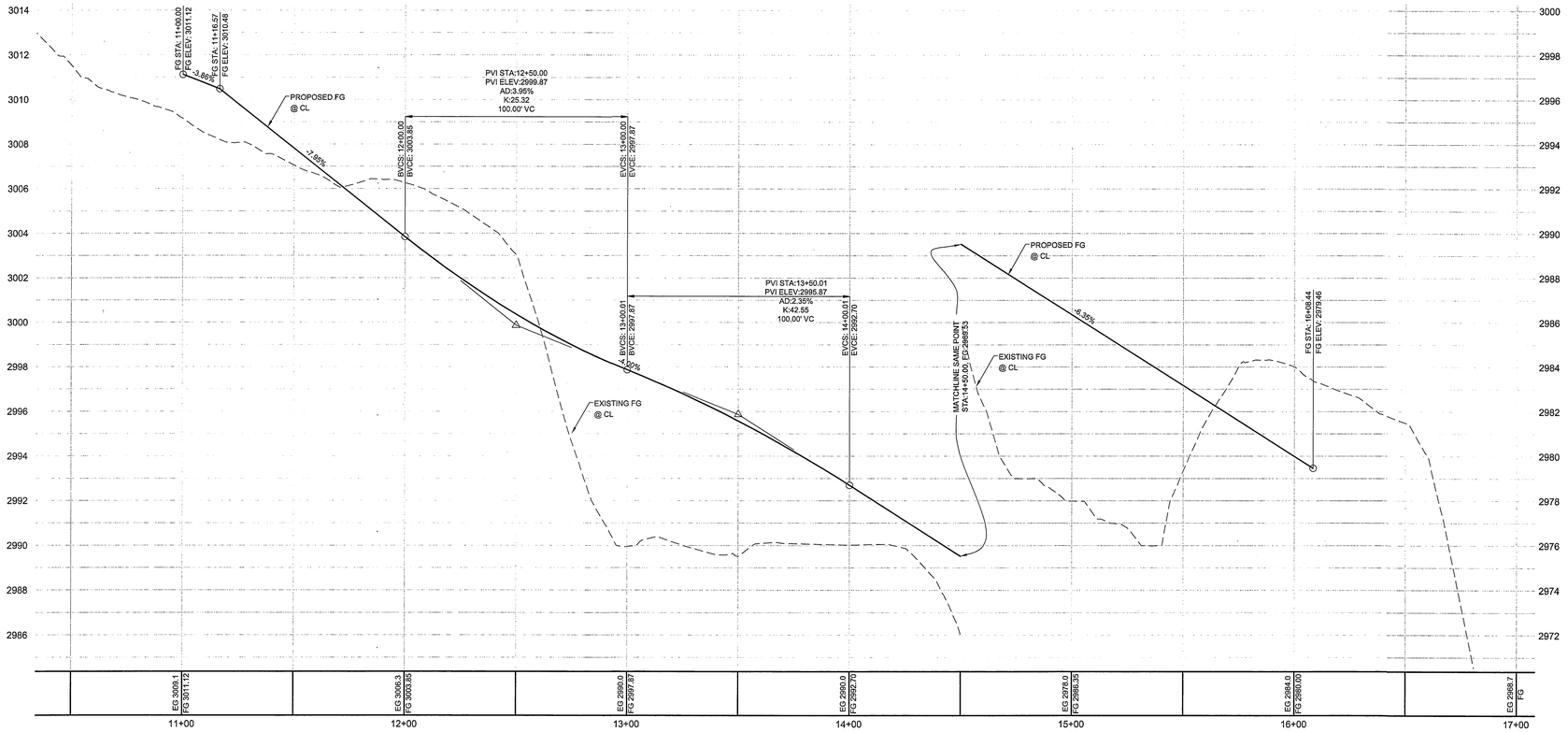
DATE: 10/30/2013
SCALE: 1"=30'
JOB NO: AST-12-002
DESIGNED BY: SF
CHECKED BY: MC
SHEET NAME: PP6
SHEET: 15 OF 22

CLV

FILE NAME: P&P 1--6.DWG



OXFORD FOX LN - PLAN
STA: 11+00.00 TO 17+00.00



OXFORD FOX LN - PROFILE
STA: 11+00.00 TO 17+00.00
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6835 S. ESCONDIDO ST. STE. B
LAS VEGAS, NEVADA 89119
702-897-1424

REPORT NO: 10944-LVR6
DATE 10/30/2012

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APPROVAL BLOCK

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NO.	DESCRIPTION	SH'TS.	APPR.	DATE
	REVISIONS			

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16655 PARK RUN DRIVE SUITE #230
LAS VEGAS, NV 89144
(702) 853-8320 FAX: —

TANEY ENGINEERING
6030 S. JONES BLVD. SUITE 100
LAS VEGAS, NV 89118
(702) 362-8844 FAX: (702) 362-8233

PEACEFUL RIDGE - PHASE 3
LONE MOUNTAIN & PULI
A RESIDENTIAL SUBDIVISION

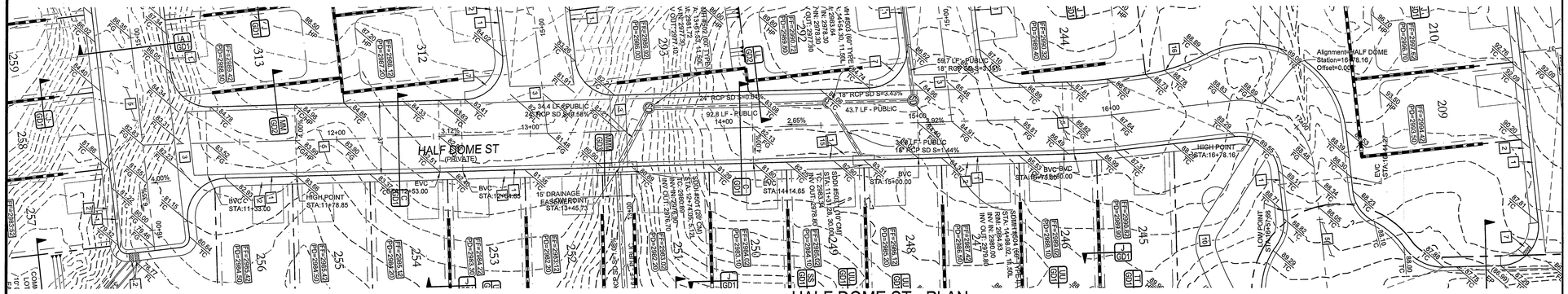
OXFORD FOX
PLAN AND PROFILE

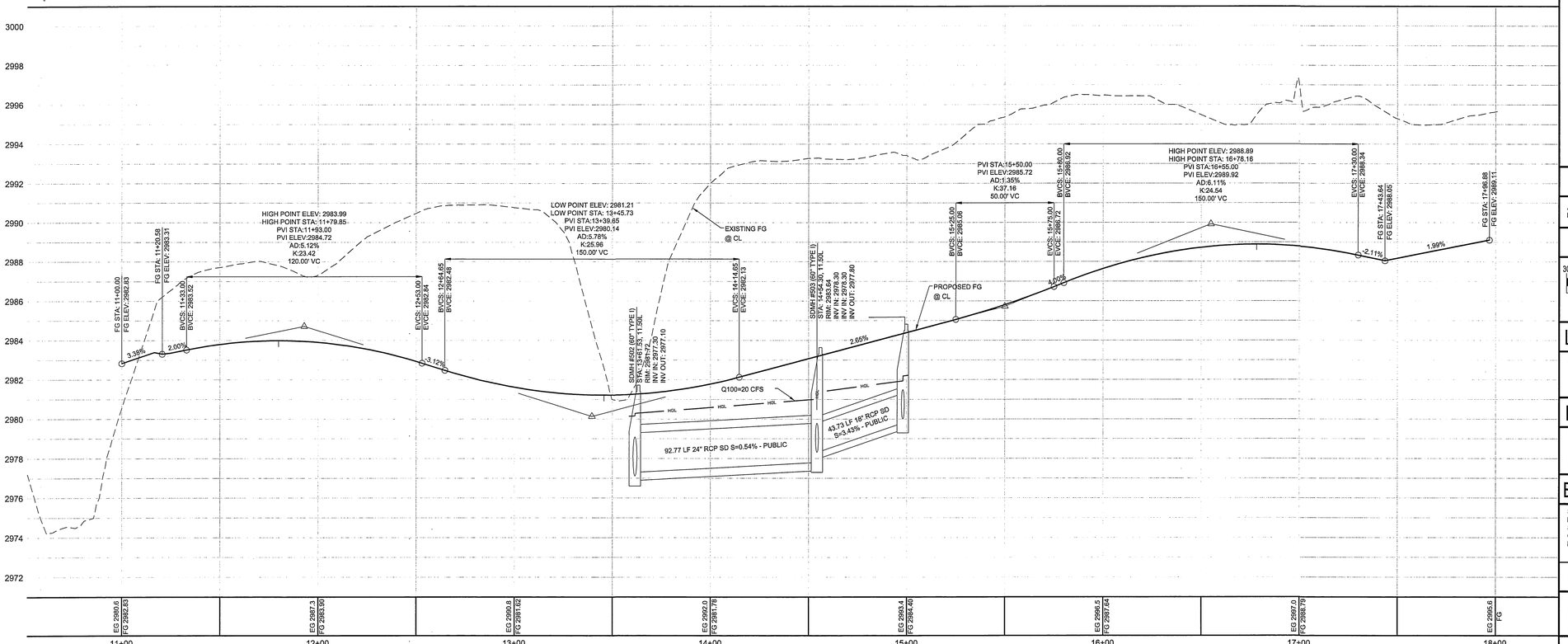
PROFESSIONAL ENGINEER STATE OF NEVADA
MICHAEL A. CUNNINGHAM
Exp. 12-31-14
CIVIL
No. 22037
10/9/13
ENGINEER'S SEAL

DATE:	10/30/2013
SCALE:	1"=30'
JOB NO:	AST-12-002
DESIGNED BY:	SF
CHECKED BY:	MC
SHEET NAME:	PP7
SHEET:	16 OF 22

CLV

FILE NAME: P&P 7-12.DWG





HALF DOME ST - PROFILE
STA: 11+00.00 TO 18+00.00
SCALE: 1"=30' HORIZ., 1"=3' VERT.

Call Before You Dig
AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.
CALL 811 OR 1-800-227-2600

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SCALE

30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

LEGAL DESCRIPTION

APN #: 137-01-101-001, 009, 010, 011,
137-01-201-001, 002, 003, 011,
012, 137-01-301-001, & 002

BENCHMARK

PROJECT VERTICAL DATUM: NAVD88
CITY OF LAS VEGAS BENCHMARK 1LV09-1W6
NAVD88 ELEV: 895.080BM 2936.65 FT
RIVET AND PLATE IN TOP OF CURB AT NORTHEAST
CORNER OF CLIFF SHADOWS AND DIEGOVILLE.

BASIS OF BEARINGS

SOUTH 87°47'07" WEST, BEING THE BEARING OF THE SOUTH LINE OF THE NORTHWEST QUARTER (NW1/4) OF THE SOUTHWEST QUARTER (SW1/4) OF SECTION 1, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY NEVADA, AS SHOWN BY MAP THEREOF ON FILE IN BOOK 113, PAGE 87 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

GEOTECHNICAL

GEOTEK RESIDENTIAL, LLC.
6835 S. ESCONDIDO ST. STE. B
LAS VEGAS, NEVADA 89119
702-897-1424

REPORT NO: 10944-LVR6
DATE 10/30/2012

GRADING NOTES

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APPROVAL BLOCK

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER DATE
(PROJ#)

NO.	DESCRIPTION	SHTS.	APPR.	DATE
	REVISIONS			

THM ENTERPRISE LLC
10655 PARK RUN DRIVE SUITE #230
LAS VEGAS, NV 89144
(702) 853-8320 FAX: —

TANEY ENGINEERING
8030 S. JONES BLVD. STE. 100
LAS VEGAS, NV 89118
(702) 362-8844 FAX: (702) 362-5333

PEACEFUL RIDGE - PHASE 3
LONE MOUNTAIN & PULI
A RESIDENTIAL SUBDIVISION

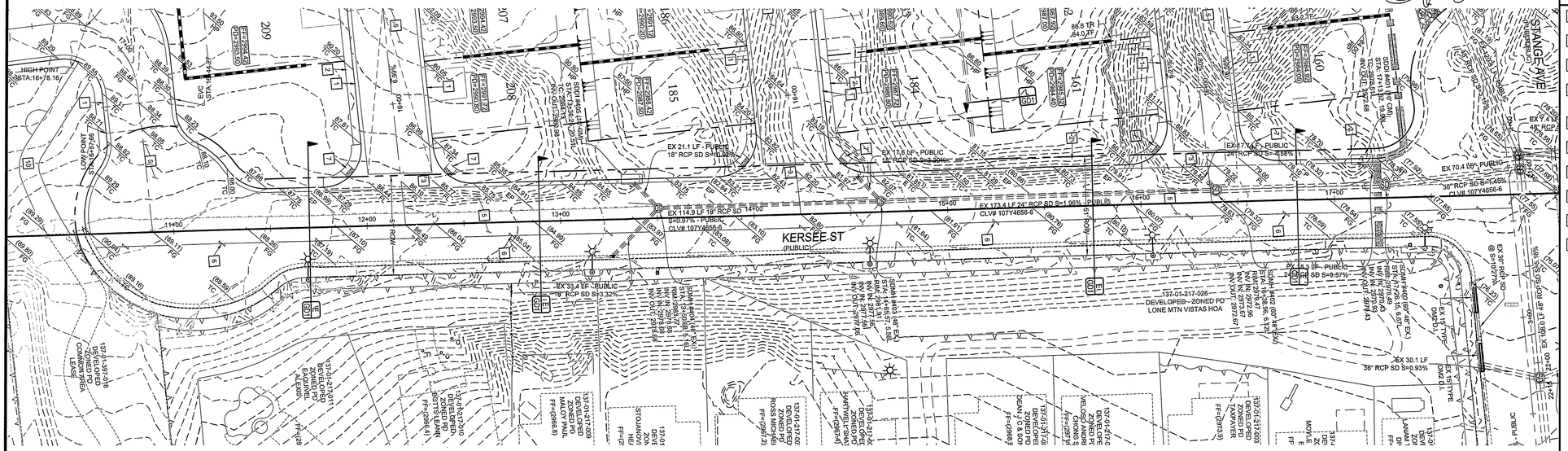
HALF DOME
PLAN AND PROFILE

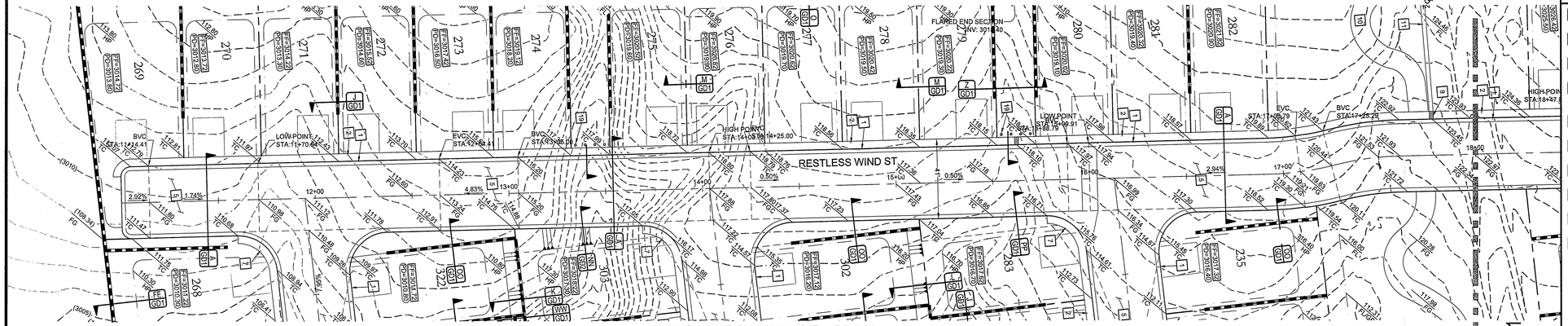
MICHAEL A. CUNNINGHAM
Exp. 12-31-14
CIVIL
No. 22027
11/4/13
ENGINEER'S SEAL

DATE: 10/30/2013
SCALE: 1"=30'
JOB NO: AST-12-002
DESIGNED BY: SF
CHECKED BY: MC
SHEET NAME: PP8
SHEET: 17 OF 22

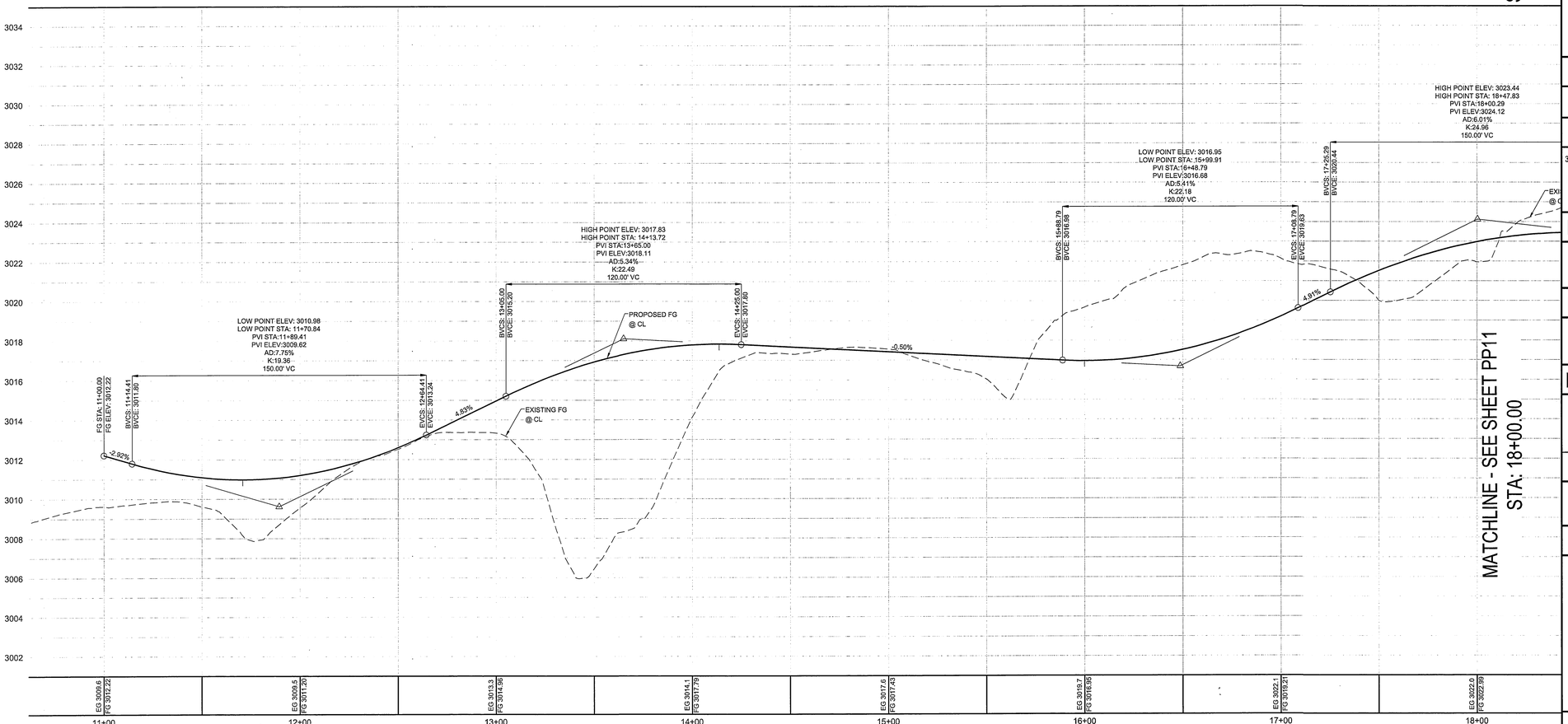
CLV

FILE NAME: P&P 7-12.DWG


KERSEE ST
(PUBLIC)
HIGH POINT
STA:16+78.16
LOW POINT
STA:11+00.00
EX 21.1 LF - PUBLIC
18" RCP SD S=4.00%
EX 17.6 LF - PUBLIC
18" RCP SD S=3.20%
EX 114.9 LF 18" RCP SD S=0.97% - PUBLIC
CLV# 107Y4656-6
EX 173.4 LF 24" RCP SD S=1.96% PUBLIC
EX 77.4 LF - PUBLIC
24" RCP SD S=4.58%
EX 70.4 LF - PUBLIC
36" RCP SD S=5.45%
CLV# 107Y4656-6
EX 33.4 LF - PUBLIC
18" RCP SD S=3.32%
EX 30.1 LF
36" RCP SD S=0.93%
137-01-217-026
DEVELOPED-- ZONED PD
LONE MTN VISTAS HOA
STANGE AVE
(PUBLIC)
EX 30" RCP SD
@ STA:10+27.78
EX 48" RCP SD
EX 18" TYPE
DW/D-1
EX 24" RCP SD
EX 36" RCP SD
EX 42" RCP SD
EX 48" RCP SD
EX 54" RCP SD
EX 60" RCP SD
EX 66" RCP SD
EX 72" RCP SD
EX 78" RCP SD
EX 84" RCP SD
EX 90" RCP SD
EX



RESTLESS WIND ST - PLAN
STA: 11+00.00 TO 18+00.00



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APPROVAL BLOCK

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER DATE
(PROJ#)

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137-01-201-001, 002, 003, 011,
012, 137-01-301-001, & 002

BENCHMARK

PROJECT VERTICAL DATUM: NAVD88
CITY OF LAS VEGAS BENCHMARK 1LV09-1W6
NAVD88 ELEV: 895.0609M 2936.55 FT
RIVET AND PLATE IN TOP OF CURB AT NORTHEAST
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GEOTECHNICAL

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6835 S. ESCONDIDO ST. STE. B
LAS VEGAS, NEVADA 89119
702-897-1424
REPORT NO: 10944-LVR6
DATE 10/30/2012

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LAS VEGAS, NV 89144
(702) 853-6320 FAX: —

TANEY ENGINEERING
6030 S. JONES BLVD. STE# 100
LAS VEGAS, NV 89118
(702) 362-8844 FAX: (702) 362-5233

NO.	DESCRIPTION	SHTS.	APPR.	DATE
	REVISIONS			

PEACEFUL RIDGE - PHASE 3
LONE MOUNTAIN & PULI
A RESIDENTIAL SUBDIVISION

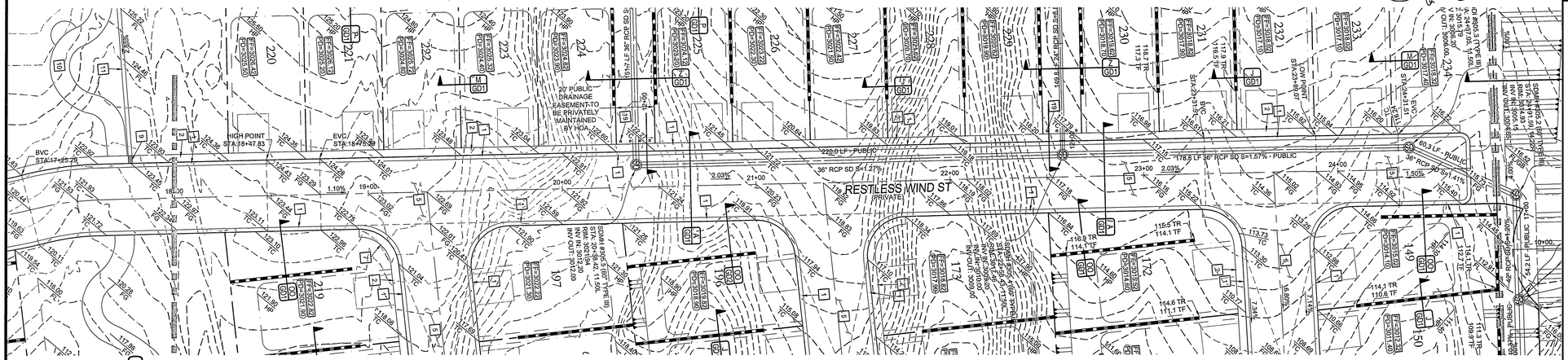
RESTLESS WIND
PLAN AND PROFILE
STA:11+00 TO 18+00

REGISTERED PROFESSIONAL ENGINEER — STATE OF NEVADA
MICHAEL A. CUNNINGHAM
Exp. 12-31-14
CIVIL
No. 22027
ENGINEER'S SEAL

DATE: 10/30/2013
SCALE: 1"=30'
JOB NO: AST-12-002
DESIGNED BY: SF
CHECKED BY: MC
SHEET NAME: PP10
SHEET: 19 OF 22

CLV

FILE NAME: P&P 7-12.DWG



RESTLESS WIND ST - PLAN
STA: 18+00.00 TO 25+00.00

MATCHLINE
SEE SHEET PP10
STA: 18+00.00

MATCHLINE - SEE SHEET PP10
STA: 18+00.00

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CITY OF LAS VEGAS BENCHMARK 1LV09-1W8
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LAS VEGAS, NEVADA 89119
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REPORT NO: 10944-LVR6
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APPROVAL BLOCK

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER DATE
(PROJ#)

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NO.	DESCRIPTION	SHTS.	APPR.	DATE

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LAS VEGAS, NV 89144
(702) 853-8320 FAX: —

TANEY ENGINEERING
8965 S. EASTERN AVE. #100
LAS VEGAS, NV 89118
(702) 362-8844 FAX: (702) 362-5233

PEACEFUL RIDGE - PHASE 3
LONE MOUNTAIN & PULI
A RESIDENTIAL SUBDIVISION

RESTLESS WIND
PLAN AND PROFILE
STA: 18+00 TO 25+00

NEVADA REGISTERED PROFESSIONAL ENGINEER
MICHAEL A CUNNINGHAM
Exp. 12-31-14
CIVIL
No. 21021
STATE OF NEVADA
11/4/13
ENGINEER'S SEAL

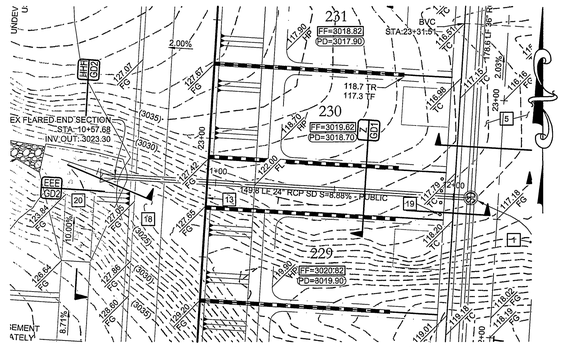
DATE:	10/30/2013
SCALE:	1"=30'
JOB NO:	AST-12-002
DESIGNED BY:	SF
CHECKED BY:	MC
SHEET NAME:	PP11
SHEET:	20 OF 22

CLV

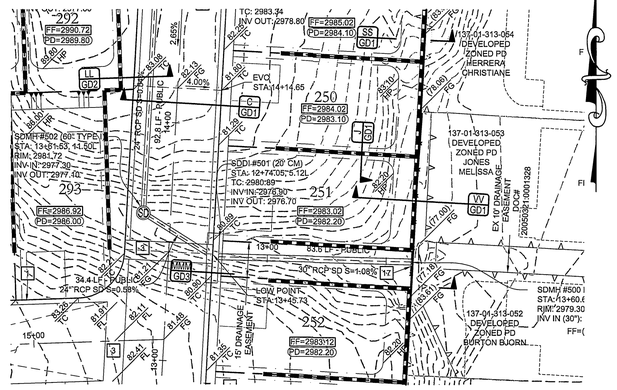
FILE NAME: P&P 7-12.DWG

RESTLESS WIND
SEE PP10

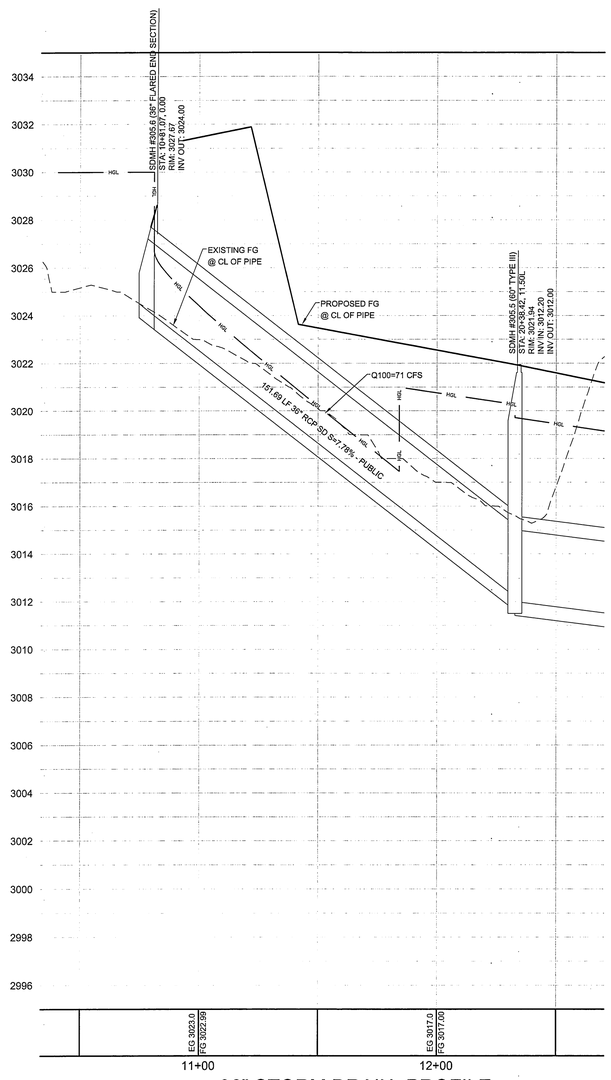
36" STORM DRAIN - PLAN



24" STORM DRAIN - PLAN



30" RCP SD - PLAN



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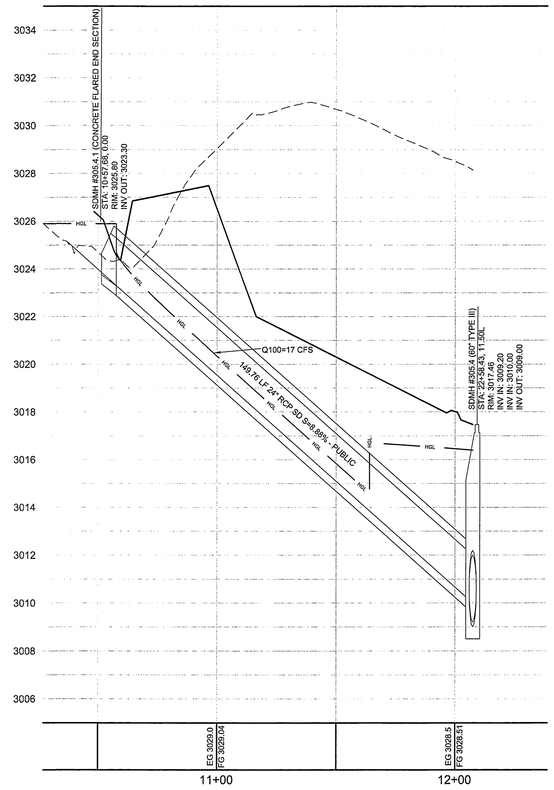

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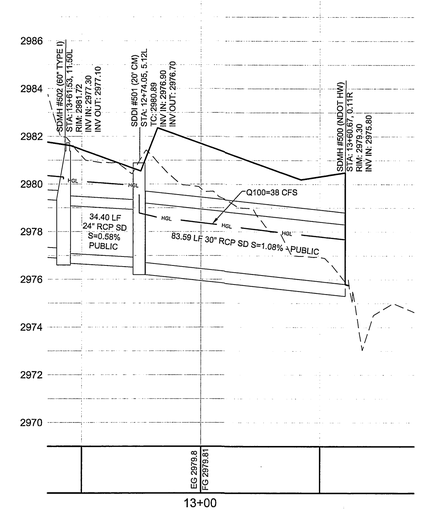

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LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER (PROJ#) DATE

CONSTRUCTION NOTES

1. 24" L-TYPE CURB & GUTTER (USD #216)
2. 4.0' SIDEWALK (USD #234)
3. 8.0' CROSS GUTTER (USD #228)
4. 5.0' SIDEWALK (USD #234)
5. AC PAVEMENT OVER TYPE II (PER GEOTECHNICAL REPORT)
6. SAWCUT & MATCH EXISTING AC PAVEMENT
7. SIDEWALK RAMP USING ARMOR TILE TRUNCATED DOMES OR EQUIVALENT (USD #235)
8. RESIDENTIAL DRIVEWAY (USD #223)
9. SIDEWALK UNDERDRAIN (USD #236)
10. 10' MEANDERING SIDEWALK (USD #234)
11. 3.0' CONCRETE FLUME (SEE DETAIL AA/GD1)
12. A-TYPE CURB (USD #219)
13. INSTALL WROUGHT IRON FENCE AND ACCESS GATE
14. 5.0' CONCRETE FLUME (SEE DETAIL BB/GD1)
15. RIPRAP: D50=12", THICKNESS=24"
16. 2.0' CURB OPENING (SEE DETAIL RR/GD1)
17. NDOT HEADWALL (SEE DETAIL YY/GD3)
18. 4" COMPACTED TYPE II AGGREGATE
19. INSTALL REMOVABLE LOCKING BOLLARDS (SEE DETAIL GGG/GD3)
20. 4" SHOTCRETE 3000 PSI TYPE V CEMENT W/ #4 REBAR @12" O.C. EACH WAY

DRAINAGE EASEMENT NOTE

ALL DRAINAGE EASEMENTS ARE PUBLIC DRAINAGE EASEMENTS TO BE PRIVATELY MAINTAINED BY THE HOA

SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

LEGAL DESCRIPTION

APN #: 137-01-101-001, 009, 010, 011, 137-01-201-001, 002, 003, 011, 012, 137-01-301-001, & 002

BENCHMARK

PROJECT VERTICAL DATUM: NAVD88
CITY OF LAS VEGAS BENCHMARK 1LV09-1WB
NAVD88 ELEV: 895.0609M 2936.55 FT
RIVET AND PLATE IN TOP OF CURB AT NORTHEAST CORNER OF CLIFF SHADOWS AND DIEGOVILLE.

BASIS OF BEARINGS

SOUTH 87°47'07" WEST, BEING THE BEARING OF THE SOUTH LINE OF THE NORTHWEST QUARTER (NW1/4) OF THE SOUTHWEST QUARTER (SW1/4) OF SECTION 1, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY NEVADA, AS SHOWN BY MAP THEREOF ON FILE IN BOOK 113, PAGE 87 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

GEOTECHNICAL

GEOTEK RESIDENTIAL, LLC.
6835 S. ESCONDIDO ST. STE. B
LAS VEGAS, NEVADA 89119
702-897-1424

REPORT NO: 10944-LVR6
DATE 10/30/2012

GRADING NOTES

ADD 2900 FEET TO ALL GRADE TAGS TO GET ACTUAL ELEVATION.

THE ELEVATION DIFFERENCE BETWEEN THE PAD AND FINISH FLOOR IS DETERMINED FROM THE MINIMUM THICKNESS REQUIRED PER THE GEOTECHNICAL REPORT. FINISH FLOORS MAY INCREASE DEPENDING ON THE TYPE OF SOIL AND FOUNDATION PLAN USED. NOTE THAT THE STRUCTURAL PLANS & GEOTECHNICAL REPORT SHALL SUPERSEDE THE CIVIL IMPROVEMENT PLANS.

ALL PRIVATE STREETS AND DRAINAGE EASEMENTS ARE TO BE PRIVATELY OWNED AND MAINTAINED BY THE HOMEOWNERS ASSOCIATION (H.O.A.).

ALL WORK TO BE PERFORMED OUTSIDE OF THE PROJECT BOUNDARY AND ON PRIVATE PROPERTY SHALL NOT BE PERFORMED UNTIL WRITTEN PERMISSION AND EASEMENTS HAVE BEEN OBTAINED FROM THE OFFSITE OWNER AND GIVEN TO CITY OF LAS VEGAS.

CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING UTILITIES AND NOTIFY THE DESIGN ENGINEER IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

FLOOD ZONE

THIS PROJECT IS LOCATED IN FLOODZONE "X" WHICH IS AN AREA DETERMINED TO BE OUTSIDE OF THE 0.20% ANNUAL CHANCE FLOODPLAIN PER FIRM PANEL 32003C2150E, MAP REVISED SEPTEMBER 27, 2002

NO.	DESCRIPTION	SH'TS.	APPR.	DATE

REVISIONS

THM ENTERPRISE LLC
10655 PARK RUN DRIVE SUITE #230
LAS VEGAS, NV 89144
(702) 853-6320 FAX: —

TANEY ENGINEERING
6030 S. JONES BLVD. STE 100
LAS VEGAS, NV 89118
(702) 362-8844 FAX: (702) 362-5233

PEACEFUL RIDGE - PHASE 3
LONE MOUNTAIN & PULI
A RESIDENTIAL SUBDIVISION

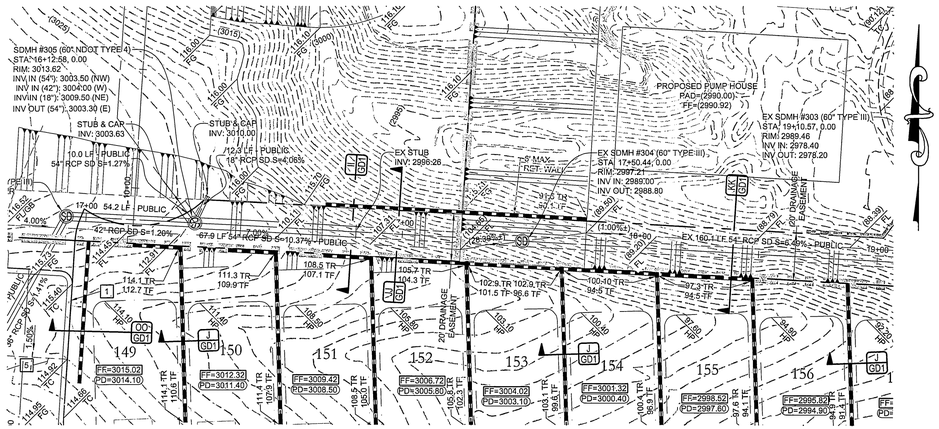
DRAINAGE EASEMENT
PLAN AND PROFILE

ENGINEER'S SEAL

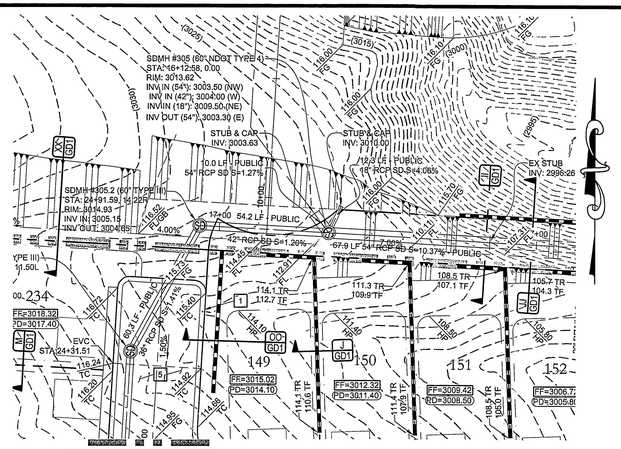
DATE: 10/30/2013
SCALE: 1"=30'
JOB NO: AST-12-002
DESIGNED BY: SF
CHECKED BY: MC
SHEET NAME: PP12
SHEET: 21 OF 22

CLV

FILE NAME: P&P 7--12.DWG

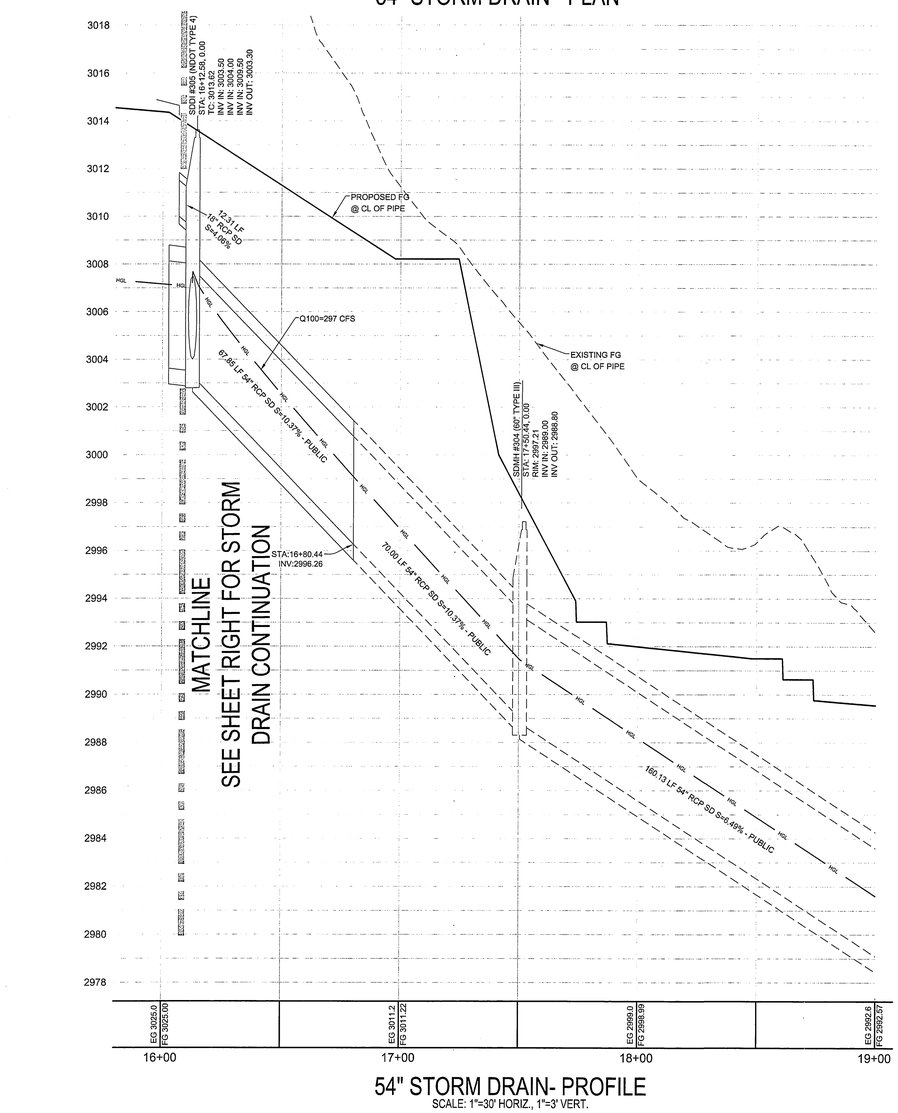


54" STORM DRAIN - PLAN



RESTLESS WIND
SEE PP11

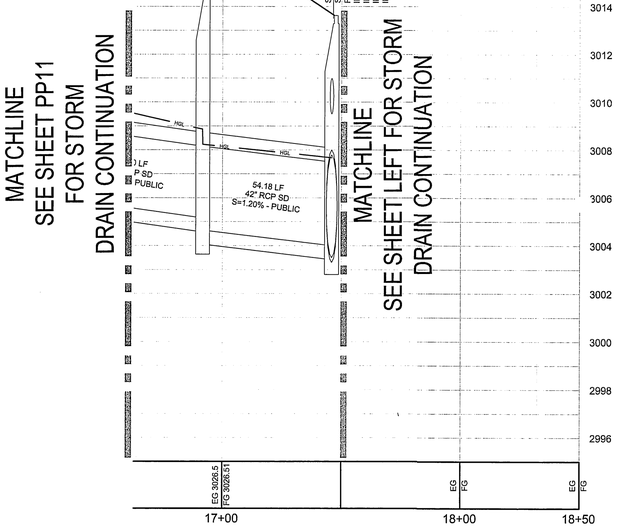
36" STORM DRAIN - PLAN



MATCHLINE
SEE SHEET RIGHT FOR STORM
DRAIN CONTINUATION

54" STORM DRAIN- PROFILE

SCALE: 1"=30' HORIZ., 1"=3' VERT.



MATCHLINE
SEE SHEET PP11
FOR STORM
DRAIN CONTINUATION

MATCHLINE
SEE SHEET LEFT FOR STORM
DRAIN CONTINUATION

36" STORM DRAIN - PLAN

SCALE: 1"=30' HORIZ., 1"=3' VERT.

Call Before You Dig
AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.
CALL 811
OR
1-800-227-2600

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.
CALL BEFORE YOU DO OVERHEAD
1-702-227-2929

UTILITY DISCLAIMER NOTE

EXISTING UTILITY LOCATIONS SHOWN HEREIN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATIONS.

CALL BEFORE YOU DIG: 1-800-227-2600
CALL BEFORE YOU OVERHEAD: 1-702-227-2929

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APPROVAL BLOCK

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER DATE
(PROJ#)

NO.	DESCRIPTION	SHTS.	APPR.	DATE
	REVISIONS			

THM ENTERPRISE LLC
10655 PARK RUN DRIVE SUITE #230
LAS VEGAS, NV 89144
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TANEY ENGINEERING
6030 S. JONES BLVD STE 100
LAS VEGAS, NEVADA 89118
(702) 362-8844 FAX: (702) 362-5233

PEACEFUL RIDGE - PHASE 3
LONE MOUNTAIN & PULI
A RESIDENTIAL SUBDIVISION

54" STORM DRAIN AND 36" STRORM DRAIN
PLAN AND PROFILE

PROFESSIONAL ENGINEER STATE OF NEVADA
MICHAEL A. CUNNINGHAM
Exp. 12-31-14
CIVIL
No. 22027
10/31/13
ENGINEER'S SEAL

DATE:	10/30/2013
SCALE:	1"=30'
JOB NO:	AST-12-002
DESIGNED BY:	SF
CHECKED BY:	MC
SHEET NAME:	PP13
SHEET:	22 OF 22

CLV

FILE NAME: P&P 7-12.DWG