

DS #:

3796-3

APN:

125-09-501-003

PROJECT:

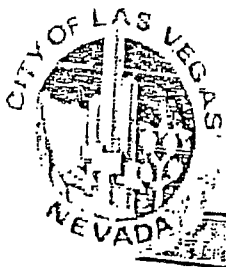
Calgary Crossing (Alca Coka & Maggie East)

SUBMITTAL:

7th (Supplemental)

SCANNED BY/DATE:

CHECKED BY/DATE:





CITY OF LAS VEGAS		DATE:
INTER-OFFICE MEMORANDUM		August 30, 2012
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: Calgary Crossing (A.K.A. Coke & Maggie East)		COPIES TO: Taney Engineering
Cross Streets:	NEC of Coke and Maggie	D. R. Horton Inc.
File Number:	F:\Depot\DSMemos\DS3796H.doc	Bart Anderson, P.E., DevCo
Parcel Number:	125-09-501-003	
Zoning Action:	SUP-4558, TMP-6237 & VAC-13158	
FEMA Flood Zone	YES NO X	
Proposed Storm Drain	YES X NO	

HISTORY	DATE RECEIVED	DATE REVIEWED	COMMENTS	REVIEW FEES	FEES PAID Tran. #
1 st Submittal	5/2/2005	5/26/2005	Not Approved	\$400.00	21096: \$400
2 nd Submittal	5/2/2006 & 5/30/2006	6/20/2006	Not Approved	\$400.00	44660: \$400
3 rd Submittal	7/25/2006, 8/8/2006 & 10/23/2006	10/30/2006	Not Approved	\$400.00	50350: \$400
4 th Submittal	11/28/2006 & 12/20/2006	12/22/2006	Conditional Approval	\$400.00	58456: \$400
CCDDS & CCRFCD	2/12/2007	2/16/2007	Concurrence	N/C	N/C
5 th Submittal	3/11/2008	3/12/2008	Conditional Approval	\$100.00	90016: \$100
6 th Submittal	3/21/2008 & 4/8/2008	4/23/2008	Approved	\$100.00	90872: \$100
7 th Submittal & Supplement	7/30/2012 & 8/29/2012	8/13/2012 & 8/30/2012	See Comments Below	N/C	N/C
			TOTAL FEES (LDDRS):	\$1,800.00	----

REMARKS:

7th Submittal: Update to provide a 12"-nuisance drain system at the end of the southern channel

6th Submittal: Update #2 to address the construction of the south channel

5th Submittal: Update for the recordation of Final Map

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

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

****** Note to Land Development: The proposed 12"-nuisance storm drain system is within the Silverstone Golf Club. Approval of the proposed 12"-nuisance storm drain by the Golf Club must be obtained prior to the final approval of the improvement plans.**

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

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
PBJ/ays

T/R/S: T19S/R60E/09
AREA G-09

*** FAX TX REPORT ***

TRANSMISSION OK

JOB NO. 4695
 DESTINATION ADDRESS 3625233
 PSWD/SUBADDRESS
 DESTINATION ID
 ST. TIME 08/30 10:37
 USAGE T 01' 35
 PGS. 2
 RESULT OK

CITY OF LAS VEGAS INTER-OFFICE MEMORANDUM		DATE: August 30, 2012
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: Calgary Crossing (A.K.A. Coke & Maggie East)	COPIES TO: Taney Engineering
Cross Streets:	NEC of Coke and Maggie	D. R. Horton Inc.
File Number:	F:\Depot\DSMemos\DS3796H.doc	Bart Anderson, P.E., DevCo
Parcel Number:	125-09-501-003	
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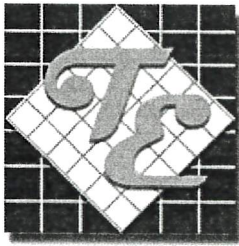
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6th Submittal: Update #2 to address the construction of the south channel

5th Submittal: Update for the recordation of Final Map



July 26, 2012

City of Las Vegas
333 N. Rancho Drive
Las Vegas, NV 89106

RE: Park Ranch Estates Revision (Delta 4)

To whom it may concern:

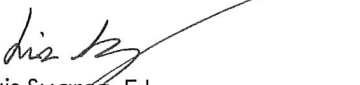
Taney Engineering is submitting this clarification letter to discuss the revision being submitted. The revision has been clouded and indicated under "Delta 4."

- Delta 4
 - Revises plans to add an 8" PVC pipe in the drainage easement.

A concrete apron will channel the flow at the end of the existing 6' x 3' "U" channel into an 8" PVC pipe that will flow underneath the existing riprap section and daylight further down in the drainage easement.

Accompanying this letter are redlines showing the revisions. We are hopeful that this letter clarifies our intent. If you have any questions or require additional information, please don't hesitate to call. Thank you.

Sincerely,


Luis Suarez, E.I.
Taney Engineering

Rec'd: 7/30/12 & 8/9/12
#46304

TANEY ENGINEERING

6030 SOUTH JONES BLVD. #100

LAS VEGAS, NV 89118

TELEPHONE: 702-362-8844

FAX: 702-362-5233

DS 3796-3
G-09
N/C

RECEIVED

JUL 26 2012

City of Las Vegas
Land Development

#46304

RECEIVED

JUL 26 2012

City of Las Vegas
Land Development

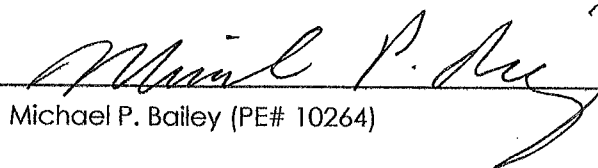
July 06, 2012

Michael P. Bailey (PE# 10264)
MickBailey@cox.net
Phone: (702) 565-6555

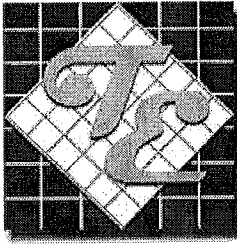
Re: Park Ranch Estates (DWG# 107Y4958)

Mr. Bailey;

Taney Engineering has been contracted by DR Horton, the property owners of the above project, to revise the civil improvement plans that were prepared and sealed by you on 06/23/08. Please sign below and return to 6030 S. Jones Blvd, Suite #100 Las Vegas, N.V. 89118 to give Taney Engineering and its employee's permission to revise the above mentioned set of Civil Improvement Plans per the Nevada Revised Statutes. Thank you for your time. Please contact Robert Cunningham at Taney Engineering (702-362-8844) if you have any questions.


Michael P. Bailey (PE# 10264)

7/19/12
Date



TANEY ENGINEERING

6030 SOUTH JONES BLVD. #100

LAS VEGAS, NV 89118

TELEPHONE: 702-362-8844

FAX: 702-362-5233

Transmittal

To:	Albert Sung	From:	Jody M. Mudano
Company:	City of Las Vegas Land Development 333 North Rancho Las Vegas, NV 89106	Date:	August 29 2012
Project:	Park Ranch Estates Aka: Calgary Crossing	Job No.:	DRH 11-015
Re:	Revised sheets		
	CLV#46304		

Items Attached

1. (1) Original redline of the correct drawings – sheets 3,4&5

COMMENTS:	
For your review, per your conversations with Michael Cunningham.	
Received:	
Date:	

REVISION REQUEST FORM

#46304

ORIGINAL CIVIL PROJECT #: 109260 19120 DATE: 7/26/12
PROJECT NAME: Park Ranch Estates Calgary Crossing
DRAWING NUMBER: 10744958 **RECEIVED**
ENGINEERING FIRM: Taney Engineering PHONE #: 702-362-8844 JUL 26 2012
ORIGINAL P.E. FOR THE PROJECT: Michael Bailey City of Las Vegas
DEVELOPER: D.R. Horton Land Development

PACKAGE SHALL INCLUDE

1. ☒ Revision fee(s). \$100/ sheet for hand change, \$200/sheet for re-plot.
2. ☒ Redlined proposed revision(s) on an approved plan sheet(s). If you are submitting replot(s), you must highlight the change(s) and provide a copy of the approved plan(s).
3. ☒ Justification for the revision(s). List reason(s) for the revision and who is requesting them, i.e. Developer, Contractor, BLDG Dept. etc. Also, fill out below and sign.

Justification

Sheet(S) 3, 4, & 5 Requested by: D.R. Horton
Reason: Added an 8" PVC pipe that daylights into the drainage
easement. PART OF FINAL PUNCH LIST ITEMS TO BE ADDRESSED.

Sheet(S) _____ Requested by: _____
Reason: _____

BOND FOR THE PROJECT HAS BEEN RELEASED: YES _____ NO X

(If the project bond has been released, revision will **not** be allowed to any off-site improvements. Also, if the proposed revision(s) increase the project construction cost by more than 10%, additional bond and fees may be required).

OFF-SITE PERMIT NO: _____

OFF-SITE PERMIT COMPLETION DATE: _____

I CERTIFY THAT THE WORK PROPOSED BY THE ABOVE REVISION(S) HAS NOT BEEN CONSTRUCTED.

Print P.E. Name: ROBERT CUNNINGHAM

P.E. Signature: Robert Cunningham DATE: 7/26/12

If a different Professional Engineer, who is not the Original Engineer of Record, is requesting this revision, please Initial.

RC I have conformed with the **NRS & NAC 625** and **Nevada Blue Book** regarding contacting the Original Professional Engineer of Record.

Albert Sung

From: Albert Sung
Sent: Wednesday, August 29, 2012 3:03 PM
To: 'Michael Cunningham'
Subject: RE: Park Ranch Estates

Mike,

The revision is good. However, we would like the developer to upsize the proposed 8" nuisance pipe to 12" diameter. Lastly, provide a 10'x10' riprap pad at the end of the pipe for erosion protection.

Also, how's the coordination with the Golf Course going? We need documentation of the Golf Course acceptance and maintenance in our file. Thanks.

Albert

From: Michael Cunningham [<mailto:MichaelC@taneycorp.com>]
Sent: Wednesday, August 29, 2012 1:31 PM
To: Albert Sung
Cc: Robert Cunningham
Subject: Park Ranch Estates

Albert,

Attached is the revised revision with the modifications you requested including:

- Adding contours near the daylight point.
- Adding type II backfill over pipe beneath riprap.
- Adding concrete apron detail.

I will have hard copies dropped off to you. Let me know if you need anything else.

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

Albert Sung

From: Albert Sung
Sent: Wednesday, August 29, 2012 1:45 PM
To: Mark Christensen
Cc: Oh-Sang Kwon
Subject: RE: Coke and Maggie East, 19120 L-Civil, Plan #107Y4958

Mark,

As I told you this morning through our phone conversation, I was under the impression that D. R. Horton will put in the nuisance (8") pipe as well as fixing the riprap channel (adjacent to the rockery wall) in the same revision plans. However, after discussion with Oh Sang, since the riprap channel was not built per plan, not that they have to revise the plan per se, ie, the original plan and section was still correct, no revision for that. Just please make sure that D.R. Horton fixes the riprap channel adjacent to the rockery wall when they put in the 8" nuisance drain.

I have logged out of Hansen-46304 for the approval of the nuisance drain construction. Please call me at X-2001 if you still have questions. Thanks.

Albert
Flood Control

From: Oh-Sang Kwon
Sent: Wednesday, August 29, 2012 1:15 PM
To: Albert Sung
Subject: FW: Coke and Maggie East, 19120 L-Civil, Plan #107Y4958

***Oh Sang Kwon, P.E.
City of Las Vegas
Department of Public Works
Flood Control Section
333 Rancho Drive, 7th Floor
Las Vegas, NV 89106
Phone: 702-229-1815
Cell: 702-379-9491
Fax: 702-382-8551***

From: Mark Christensen
Sent: Wednesday, August 29, 2012 1:02 PM
To: Brian A Defillippis
Cc: Ralph Kouns; Robert Jeannotte; Tom Hayes; Peter Jackson; Oh-Sang Kwon; Steven J Gallagher; Dennis Moyer
Subject: RE: Coke and Maggie East, 19120 L-Civil, Plan #107Y4958

Yeah Brian, I understand that the revision for the drainage channel is in the process but the standing water left over from the heavy rains is a real threat with the West Nile virus now present in Las Vegas.

We have major concerns and are just letting you know that we feel it should be addressed as soon as possible. I know you don't want to do any work on the rip-rap until you have the approved revision but we feel that the standing water should be cleaned up before any pests start breeding in it or the health district gets involved.

From: Brian A Defilippis [<mailto:BADefilippis@drhorton.com>]
Sent: Wednesday, August 29, 2012 12:48 PM
To: Mark Christensen
Subject: RE: Coke and Maggie East, 19120 L-Civil, Plan #107Y4958

I'm aware of the issue and I was hoping to have it all done by now. Frankly I don't know what's taking so long for the approval It seems foolish to do the work twice .Can someone push this along for me so we can get in there and get the work done?

From: Mark Christensen [<mailto:mschristensen@LasVegasNevada.GOV>]
Sent: Wednesday, August 29, 2012 8:00 AM
To: Brian A Defilippis; Steven J Gallagher
Cc: Ralph Kouns; Robert Jeannotte; Tom Hayes; Peter Jackson
Subject: Coke and Maggie East, 19120 L-Civil, Plan #107Y4958

I need to let you know that it has been noticed that the south east drainage channel has standing water in the concrete flume and in the rip-rap. It is a serious concern with the documented cases of West Nile virus reported here in Las Vegas.

I know you are working on a revision to the drainage channel to properly convey the nuisance water but you might want to have somebody take a look at this and make arrangements to have it cleaned out so as to eliminate the threat of the West Nile virus.

Thanks,

Mark S. Christensen
Senior Construction Inspector
Offsite Inspection and Testing
City of Las Vegas
376-1949 cell
229-6337 office

- ① Provide a ~~detail~~ of construction detail
at the entrance of the proposed
8" PVC.
- ② Protect the PVC with
Type 2 encasing.
- ③ Show existing F.G. or Contours to
verify daylighting of the pipe
- ④ May need a sidewalk underdrain
a distance beyond the daylight point
- ⑤ Golf Course Permission.

— Left message for Mike C.
8/1/12

Written record of NO. Golf Course permission required.

15

Left message for Mike C.

- stop the revision
- city will inspect the rockery wall for undercutting problem (reported by the citizen adjacent to the wall)
- May need the developer to fix all problem at one time. 8/8/12

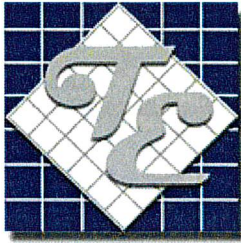
198/168

17

199/167

18

Left message for Mike C.
8/1/12



TANEY ENGINEERING

6030 SOUTH JONES BLVD. #100

LAS VEGAS, NV 89118

TELEPHONE: 702-362-8844

FAX: 702-362-5233

#46304

July 26, 2012

City of Las Vegas
333 N. Rancho Drive
Las Vegas, NV 89106

RECEIVED

JUL 26 2012

City of Las Vegas
Land Development

RE: Park Ranch Estates Revision (Delta 4)

To whom it may concern:

Taney Engineering is submitting this clarification letter to discuss the revision being submitted. The revision has been clouded and indicated under "Delta 4."

- Delta 4
 - o Revises plans to add an 8" PVC pipe in the drainage easement.

A concrete apron will channel the flow at the end of the existing 6' x 3' "U" channel into an 8" PVC pipe that will flow underneath the existing riprap section and daylight further down in the drainage easement.

Accompanying this letter are redlines showing the revisions. We are hopeful that this letter clarifies our intent. If you have any questions or require additional information, please don't hesitate to call. Thank you.

Sincerely,

Luis Suarez, E.I.
Taney Engineering

#46304

RECEIVED

JUL 26 2012

City of Las Vegas
Land Development

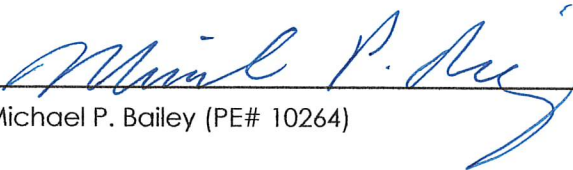
July 06, 2012

Michael P. Bailey (PE# 10264)
MickBailey@cox.net
Phone: (702) 565-6555

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Michael P. Bailey (PE# 10264)

7/19/12
Date

REVISION REQUEST FORM

#46304

ORIGINAL CIVIL PROJECT #: 109260 19120 DATE: 7/26/12
PROJECT NAME: Park Ranch Estates Calgary Crossing
DRAWING NUMBER: 10744958 **RECEIVED**
ENGINEERING FIRM: Taney Engineering PHONE #: 702-362-8844 **JUL 26 2012**
ORIGINAL P.E. FOR THE PROJECT: Michael Bailey **City of Las Vegas**
DEVELOPER: D.R. Horton **Land Development**

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Sheet(S) 3, 4, & 5 Requested by: D.R. Horton
Reason: Added an 8" PVC pipe that daylights into the drainage easement. PART OF FINAL PUNCH LIST ITEMS TO BE ADDRESSED.

Sheet(S) _____ Requested by: _____
Reason: _____

BOND FOR THE PROJECT HAS BEEN RELEASED: YES _____ NO X

(If the project bond has been released, revision will **not** be allowed to any off-site improvements. Also, if the proposed revision(s) increase the project construction cost by more than 10%, additional bond and fees may be required).

OFF-SITE PERMIT NO: _____

OFF-SITE PERMIT COMPLETION DATE: _____

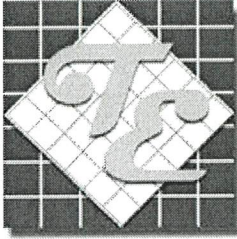
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P.E. Signature: Robert Cunningham DATE: 7/26/12

If a different Professional Engineer, who is not the Original Engineer of Record, is requesting this revision, please Initial.

RC I have conformed with the **NRS & NAC 625** and **Nevada Blue Book** regarding contacting the Original Professional Engineer of Record.



TANEY ENGINEERING

6030 SOUTH JONES BLVD. #100

LAS VEGAS, NV 89118

TELEPHONE: 702-362-8844

FAX: 702-362-5233

#46304

Transmittal

To:	Land Development	From:	Jody M. Mudano
Company:	City of Las Vegas Land Development 333 North Rancho Las Vegas, NV 89106	Date:	July 26, 2012
Project:	Park Ranch Estates	Job No.:	DRH 11-015
Re:	Revision: Added an 8: PVC Pipe		
	CLV# 109260		

Items Attached

1. (1) Revision request form
2. (1) Letter from Michael Bailey giving permission to revise drawings
3. (2) Sets of revised drawings sheets 3, 4 & 5
4. (1) Justification letter for the revision
5. (1) Check #355515, \$300.00 — *CASHIER*

COMMENTS:

For your Review

RECEIVED

Received:

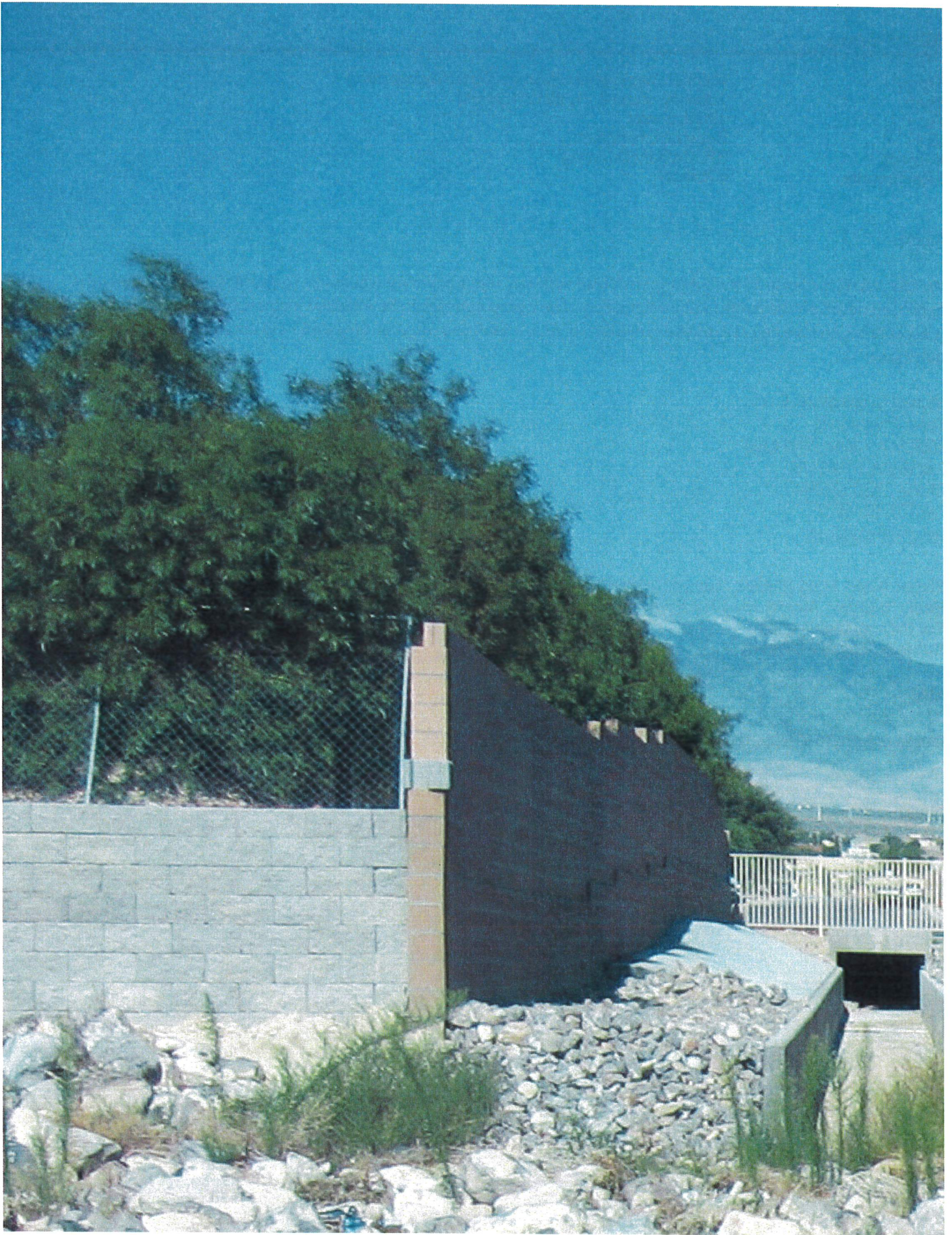
JUL 26 2012

City of Las Vegas
Land Development

Date:

MD





Albert Sung

From: Michael Cunningham [MichaelC@taneycorp.com]
Sent: Tuesday, August 21, 2012 1:34 PM
To: Albert Sung
Cc: Robert Cunningham
Subject: RE: Calgary Crossing
Attachments: detail.pdf

Albert,

We discussed the issue at the existing rock wall with our client and they would like to reinstall the riprap per the approved detail on the plans (See attachment). The riprap appears to be installed incorrectly. Please let me know if this is acceptable and we can resubmit or revision to you. Thank you for your time and help and let me know if you have any questions.

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

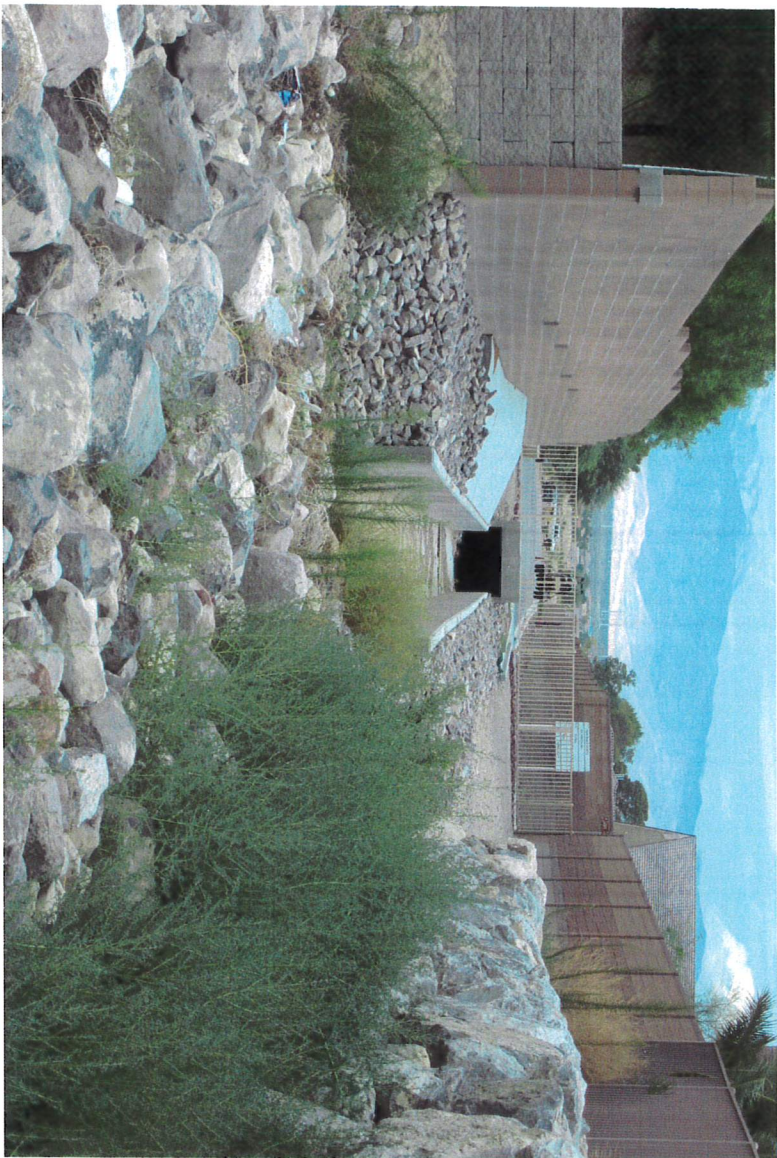
From: Albert Sung [<mailto:YSung@LasVegasNevada.GOV>]
Sent: Tuesday, August 14, 2012 8:47 AM
To: Michael Cunningham
Subject: Calgary Crossing

Mike,

Please call me to discuss the remedial action. Thanks.

Albert













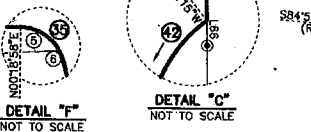
MOUNTAIN SPA

A MERGER AND RESUBDIVISION OF PARCEL 2, FILE 94, PAGE 12 OF PARCEL MAPS, AMENDED PARCEL MAP, FILE 100, PAGE 88 OF PARCEL MAPS, COMMON LOT "I", BOOK 93, PAGE 12 OF PLATS AND MOUNTAIN SPA DRIVE, SITUATE IN SECTION 10, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA

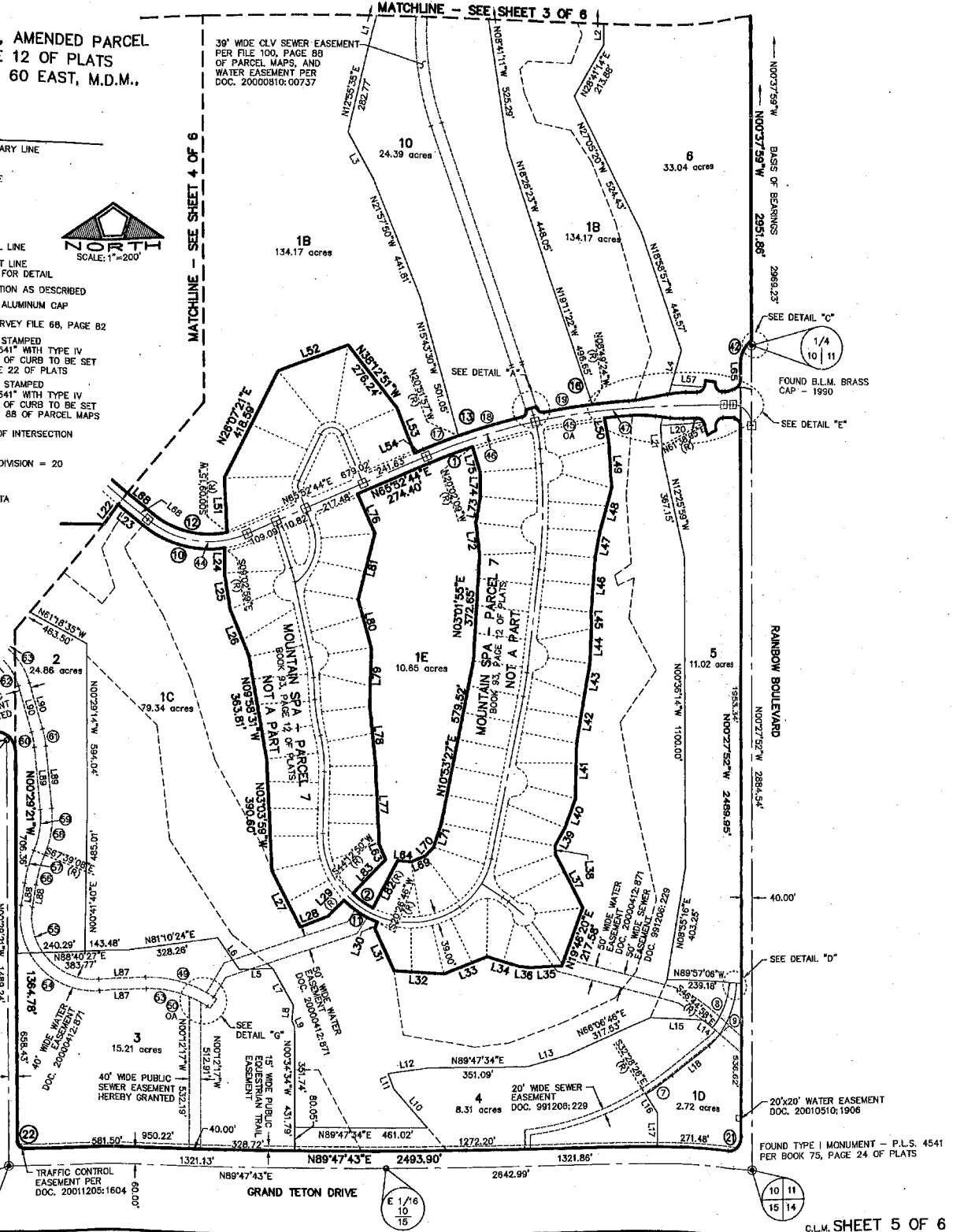
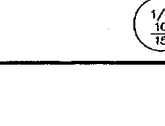
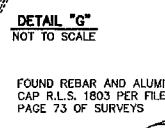
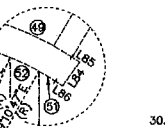
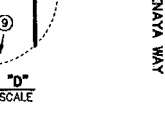
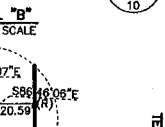
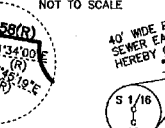
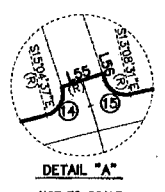
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L1	N13°59'19"E	835.28
L2	N00°17'33"E	325.82
L3	N2°50'02"W	185.03
L4	N15°35'56"E	128.42
L5	N88°12'45"E	117.35
L6	N34°45'38"W	132.79
L7	N55°18'21"W	147.22
L8	N05°42'52"E	53.42
L9	N24°52'06"W	22.08
L10	N41°00'49"W	178.89
L11	N21°33'42"W	58.89
L12	N81°57'44"E	140.79
L13	N74°34'11"E	147.19
L14	N27°22'23"E	42.28
L15	N88°32'50"W	189.84
L16	N32°34'48"W	79.05
L17	N00°08'28"W	116.32
L18	N50°34'04"E	174.17
L19	N89°32'08"E	51.11
L20	N80°43'04"E	155.29
L21	N04°28'22"E	107.94
L22	N39°30'48"E	88.80
L23	N50°29'12"W	113.61
L24	N00°01'03"E	87.50
L25	N08°58'59"W	126.22
L26	N22°03'18"W	177.02
L27	N28°47'03"W	219.05
L28	N87°42'50"E	102.23
L29	N45°04'14"E	80.00
L30	N19°50'23"E	25.00
L31	N24°50'30"W	161.23
L32	S88°32'13"W	174.79
L33	N88°21'04"E	182.64
L34	S72°52'32"E	119.33
L35	N87°08'41"E	10.80
L36	S83°45'03"E	30.80
L37	N27°22'34"W	212.89
L38	N33°48'31"W	30.00
L39	N08°37'03"W	15.00
L40	N19°44'06"E	109.29
L41	N00°47'38"E	193.62
L42	N08°56'50"E	154.97
L43	N09°28'02"E	154.97
L44	N02°11'42"E	123.30
L45	N01°21'51"W	57.83
L46	N03°33'02"E	183.33
L47	N10°04'55"E	85.72
L48	N14°32'53"E	159.52
L49	N03°56'35"W	162.54
L50	N10°36'48"E	80.56
L51	N03°13'38"W	189.74
L52	N09°08'54"E	258.12
L53	N21°11'40"W	189.18
L54	N65°52'44"E	34.39
L55	N71°32'38"E	39.00
L56	N12°22'27"E	0.00
L57	N04°50'03"W	119.25
L58	N79°57'21"W	39.60
L59	N68°12'01"E	39.00
L60	N08°49'59"E	52.78
L61	N03°00'37"E	5.00
L62	N88°59'23"W	13.92
L63	N22°49'32"W	57.73
L64	N84°13'10"E	4.68
L65	N00°27'52"W	56.18
L66	N00°37'59"W	17.37
L67	N86°59'23"W	41.88
L68	N50°29'12"W	188.18
L69	N87°00'35"E	53.49
L70	N43°31'55"E	42.71
L71	N77°08'22"E	87.88
L72	N06°52'53"W	113.76
L73	N08°41'55"E	84.19
L74	N01°27'39"W	84.75
L75	N17°03'11"W	92.16
L76	N24°14'59"W	149.24
L77	N02°55'57"W	273.80
L78	N05°50'57"W	204.97
L79	N00°59'16"E	204.32
L80	N15°24'00"W	173.88
L81	N13°42'09"E	238.72
L82	N28°45'02"E	185.41
L83	N43°14'51"E	184.30
L84	N36°22'22"E	40.02
L85	N56°30'50"W	13.07
L86	N56°40'58"W	11.73
L87	N89°33'11"E	186.43
L88	N08°42'35"E	78.79
L89	N03°58'28"W	217.81
L90	N18°00'52"W	187.24

CURVE	DELTA	RADIUS	LENGTH	TANGENT
1	04°35'07"	2274.00	162.14	81.10
2	17°27'08"	284.50	86.68	43.67
3	04°04'30"	30.00	33.55	16.77
4	17°46'41"	30.00	9.33	4.70
5	61°19'07"	30.00	32.11	17.78
6	15°52'44"	30.00	8.31	4.18
7	06°57'30"	340.00	114.18	57.35
8	38°33'32"	272.00	181.47	94.28
9	47°20'11"	320.00	264.39	140.28
10	45°33'45"	358.00	301.74	180.80
11	24°37'28"	203.50	139.03	70.81
12	51°44'29"	304.00	274.53	147.42
13	09°02'39"	2326.00	387.18	183.98
14	83°29'44"	20.00	32.80	21.27
15	84°41'10"	20.00	29.58	18.23
16	07°31'40"	2326.00	305.60	153.02
17	02°51'19"	2326.00	132.15	66.09
18	04°44'20"	2326.00	235.01	117.80
19	04°19'07"	2326.00	75.32	37.70
20	03°12'33"	2326.00	130.28	65.18
21	02°49'44"	2326.00	82.07	41.11
22	89°42'58"	25.00	39.19	24.88
23	02°19'37"	2274.00	92.35	46.18
24	12°53'08"	400.00	89.98	45.17
25	04°44'44"	200.00	47.07	23.53
26	02°10'20"	2348.00	88.93	44.48
27	01°44'29"	2348.00	50.83	25.41
28	08°43'25"	400.00	68.93	33.23
29	08°43'25"	400.00	68.93	33.23
30	01°11'48"	2254.00	47.08	23.54
31	01°00'07"	2346.00	41.03	20.51
32	81°53'11"	30.00	32.68	26.03
33	01°36'38"	487.50	13.99	6.95
34	97°02'02"	30.00	50.81	33.93
35	97°11'51"	30.00	40.42	23.95
36	96°31'31"	25.00	37.75	23.53
37	93°11'18"	30.00	33.61	17.10
38	08°19'07"	102.56	11.31	5.89
39	78°18'20"	30.00	40.98	24.41
40	53°05'37"	100.00	92.87	48.98
41	04°47'17"	15.00	1.12	0.56
42	83°38'02"	330.00	388.50	204.74
43	27°07'53"	2300.00	1089.13	554.97
44	10°05'07"	2300.00	454.78	232.92
45	17°02'52"	2300.00	884.34	444.72
46	88°31'31"	78.00	114.77	71.53
47	36°55'52"	349.50	251.08	130.08
48	36°55'52"	349.50	222.68	116.71
49	04°18'15"	349.50	28.28	14.13
50	07°17'05"	349.50	44.44	22.25
51	102°09'24"	292.00	359.39	277.39
52	13°38'17"	460.00	109.49	55.01
53	13°38'17"	500.00	119.07	59.79
54	102°09'24"	292.00	359.39	277.39
55	102°09'24"	292.00	359.39	277.39
56	13°38'17"	460.00	109.49	55.01
57	13°38'17"	500.00	119.07	59.79
58	27°57'18"	299.50	146.13	74.55
59	27°57'18"	299.50	146.13	74.55
60	102°09'24"	292.00	359.39	277.39
61	102°09'24"	292.00	359.39	277.39
62	57°10'47"	203.50	209.08	114.18
63	57°10'47"	249.50	248.99	135.97

NOTE
MONTE VISO DRIVE IS A PUBLIC DRAINAGE EASEMENT TO BE PRIVATELY MAINTAINED PER MOUNTAIN SPA - PARCEL 7, BOOK 93, PAGE 12 OF PLATS AND "MOUNTAIN SPA - PARCEL 8", BOOK 93, PAGE 22 OF PLATS.



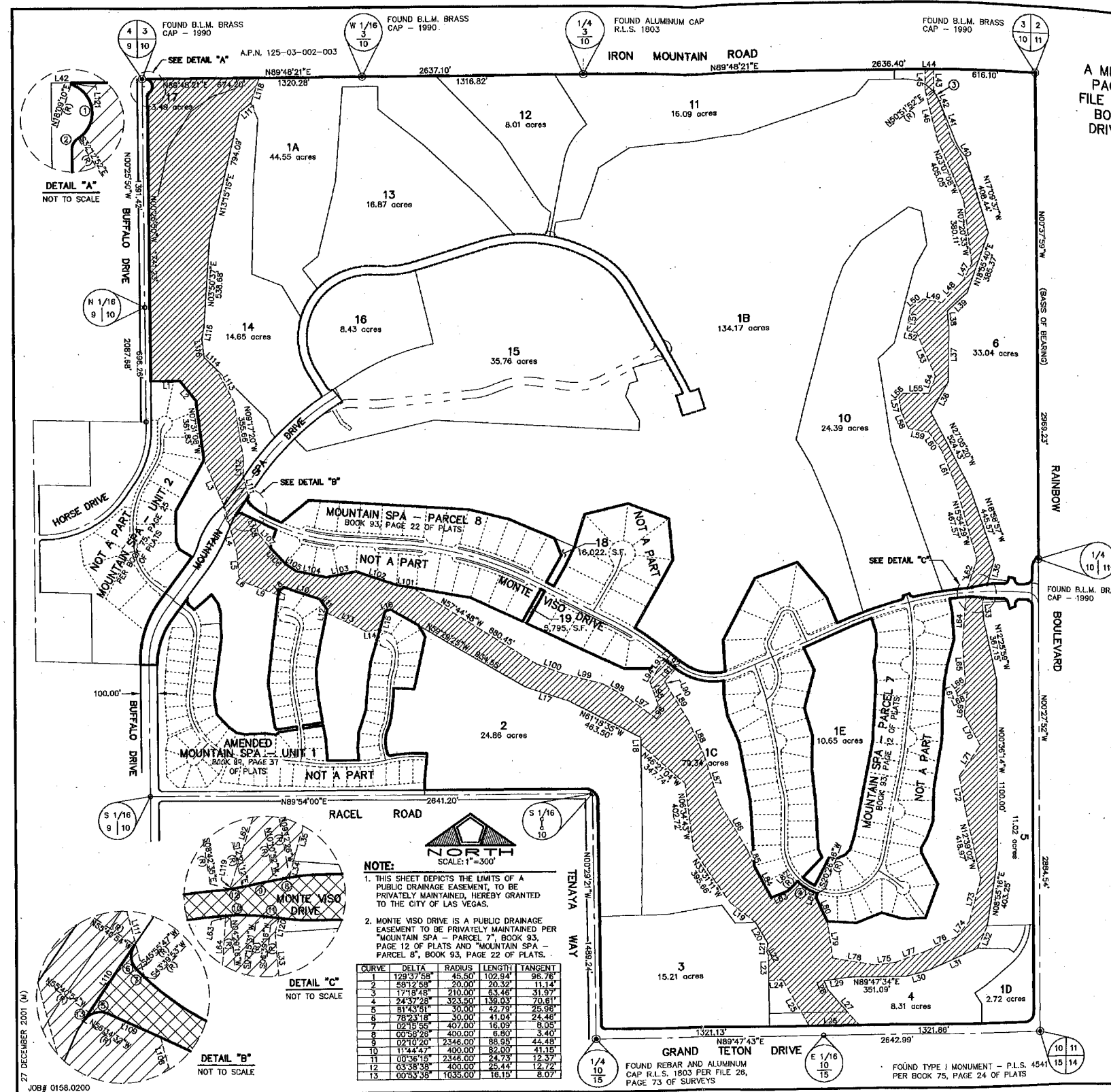
- LEGEND
- SUBDIVISION BOUNDARY LINE
 - STREET CENTERLINE
 - RIGHT-OF-WAY LINE
 - LOT LINE
 - MATCH LINE
 - EASEMENT LINE
 - ASSESSOR'S PARCEL LINE
 - DRAINAGE EASEMENT LINE
 - SEE SHEET 5 OF 6 FOR DETAIL
 - FOUND MONUMENTATION AS DESCRIBED
 - FOUND REBAR AND ALUMINUM CAP P.L.S. 6825 PER RECORD OF SURVEY FILE 68, PAGE 82
 - TYPE III MONUMENT STAMPED "F" W ORBAN PLS 4541" WITH TYPE IV MONUMENTS IN TOP OF CURB TO BE SET PER BOOK 93, PAGE 22 OF PLATS
 - TYPE III MONUMENT, STAMPED "F" W ORBAN PLS 4541" WITH TYPE IV MONUMENTS IN TOP OF CURB TO BE SET PER FILE 100, PAGE 88 OF PARCEL MAPS
 - CENTERLINE POINT OF INTERSECTION
 - LOT NUMBER
 - TOTAL LOTS IN SUBDIVISION = 20
 - S.F. SQUARE FEET
 - OA OVERALL CURVE DATA
 - (R) RADIAL BEARING



27 DECEMBER 2001 (M)
JOB# 0158.0200

C.L.M. SHEET 5 OF 6

103-34



MOUNTAIN SPA

A MERGER AND RESUBDIVISION OF PARCEL 2, FILE 94, PAGE 12 OF PARCEL MAPS, AMENDED PARCEL MAP, FILE 100, PAGE 88 OF PARCEL MAPS, COMMON LOT "I", BOOK 93, PAGE 12 OF PLATS, AND MOUNTAIN SPA DRIVE, SITUATE IN SECTION 10, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA

- LEGEND**
- SUBDIVISION BOUNDARY LINE
 - STREET CENTERLINE
 - RIGHT-OF-WAY LINE
 - LOT LINE
 - ASSESSOR'S PARCEL LINE
 - PUBLIC DRAINAGE EASEMENT, TO BE PRIVATELY MAINTAINED, HEREBY GRANTED
 - EXISTING PUBLIC DRAINAGE EASEMENT TO BE PRIVATELY MAINTAINED (SEE NOTE 2)

- FOUND MONUMENTATION AS DESCRIBED
- FOUND REBAR AND ALUMINUM CAP P.L.S. 6625 PER RECORD OF SURVEY FILE 68, PAGE 82
- TYPE II MONUMENT STAMPED "I" W ORBAN PLS 4541" WITH TYPE IV MONUMENTS IN TOP OF CURB TO BE SET PER BOOK 93, PAGE 22 OF PLATS
- TYPE III MONUMENT, STAMPED "I" W ORBAN PLS 4541" WITH TYPE IV MONUMENTS IN TOP OF CURB TO BE SET PER FILE 100, PAGE 88 OF PARCEL MAPS
- CENTERLINE POINT OF INTERSECTION
- 450 LOT NUMBER TOTAL LOTS IN SUBDIVISION = 20
- S.F. SQUARE FEET
- OA OVERALL CURVE DATA
- (R) RADIAL BEARING

LINE	BEARING	DISTANCE	LINE	BEARING	DISTANCE
1	N89°34'10"E	175.48	151	N21°58'11"W	232.03
2	N38°50'44"W	15.07	152	N11°05'51"E	174.53
3	N21°17'09"E	301.89	153	N08°25'17"E	174.53
4	N15°06'42"W	299.58	154	N04°58'33"E	8.74
5	N03°40'35"W	143.49	155	N04°45'47"W	281.56
6	N53°48'19"E	58.88	156	N53°43'02"E	235.23
7	N06°27'36"E	23.53	157	N16°59'55"E	37.42
8	N53°39'45"E	38.49	158	N64°38'11"E	37.25
9	N68°39'03"W	203.79	159	N08°39'38"E	144.88
10	N71°14'49"E	228.72	160	N27°59'30"E	205.94
11	N34°46'32"W	78.40	161	N33°55'20"E	205.94
12	N11°26'54"E	19.81	162	N10°24'28"W	224.68
13	N10°15'15"E	251.02	163	N15°23'23"E	174.53
14	N86°07'12"E	85.03	164	N38°47'18"E	286.57
15	N15°58'19"E	121.39	165	N83°59'49"E	118.25
16	N77°18'41"E	35.24	166	N69°59'10"E	200.89
17	N71°12'12"E	268.29	167	N69°59'10"E	200.89
18	N00°29'14"W	42.12	168	N80°14'18"W	206.27
19	N50°23'47"W	186.14	169	N08°31'38"W	255.80
20	N28°03'52"W	147.23	170	N24°50'39"E	255.80
21	N08°42'54"E	53.39	171	N19°50'23"E	181.23
22	N24°52'08"W	22.08	172	N45°04'14"E	25.00
23	N00°34'34"W	150.33	173	N67°52'30"E	80.00
24	N69°29'26"E	81.77	174	N26°47'03"W	102.43
25	N28°28'29"W	319.54	175	N21°38'12"W	219.05
26	N89°47'43"E	298.65	176	N26°13'29"W	39.29
27	N41°00'49"W	284.57	177	N41°05'27"W	237.18
28	N21°33'42"W	53.49	178	N23°31'55"W	299.18
29	N81°57'44"E	170.79	179	N30°18'29"W	213.63
30	N74°48'11"E	147.19	180	N22°27'10"W	243.38
31	N66°08'46"E	37.48	181	N35°40'46"E	27.26
32	N23°27'24"E	148.33	182	N50°29'14"W	98.91
33	N04°28'24"W	107.94	183	N39°30'46"E	76.38
34	N14°41'01"E	33.55	184	N31°51'43"E	65.10
35	N15°35'56"E	26.45	185	N18°54'18"W	91.87
36	N28°41'14"E	213.88	186	N36°33'05"E	146.44
37	N00°17'43"E	326.89	187	N51°59'23"W	75.07
38	N04°48'54"W	152.33	188	N58°59'07"W	168.44
39	N48°39'20"E	152.33	189	N74°47'33"W	181.74
40	N30°11'22"W	214.64	190	N69°05'48"W	226.94
41	N16°19'50"W	203.88	191	N75°45'13"W	184.28
42	N21°49'20"W	77.29	192	N71°21'49"W	96.37
43	N00°11'38"W	57.68	193	N79°33'59"E	259.47
44	N69°48'21"E	50.00	194	N77°54'29"W	181.89
45	N06°11'39"W	293.72	195	N66°31'14"W	182.91
46	N13°37'28"W	304.48	196	N42°00'24"W	78.59
47	N25°44'30"E	114.79	197	N40°50'56"W	154.43
48	N43°08'32"E	172.88	198	N14°34'48"W	105.17
49	N79°54'31"W	187.63	199	N84°50'41"W	90.36
50	N51°28'06"E	95.57	200	N34°19'06"E	86.58
51	N08°38'29"E	31.69	201	N12°42'48"W	160.56
52	N72°14'45"E	288.29	202	N07°24'29"E	180.40
53	N22°38'09"W	288.29	203	N28°49'55"W	100.40
54	N20°27'31"E	109.05	204	N45°18'42"W	95.14
55	N08°59'51"E	161.80	205	N08°59'51"E	113.58
56	N43°35'56"E	161.80	206	N52°13'52"E	71.67
57	N10°42'26"W	24.39	207	N18°08'55"E	182.25
58	N22°49'37"W	110.53	208	N09°25'19"E	182.25
59	N70°23'19"E	122.50	209	N14°41'01"E	7.24
60	N34°51'47"W	130.99	210	N00°25'50"W	30.44

NOTE:

1. THIS SHEET DEPICTS THE LIMITS OF A PUBLIC DRAINAGE EASEMENT, TO BE PRIVATELY MAINTAINED, HEREBY GRANTED TO THE CITY OF LAS VEGAS.

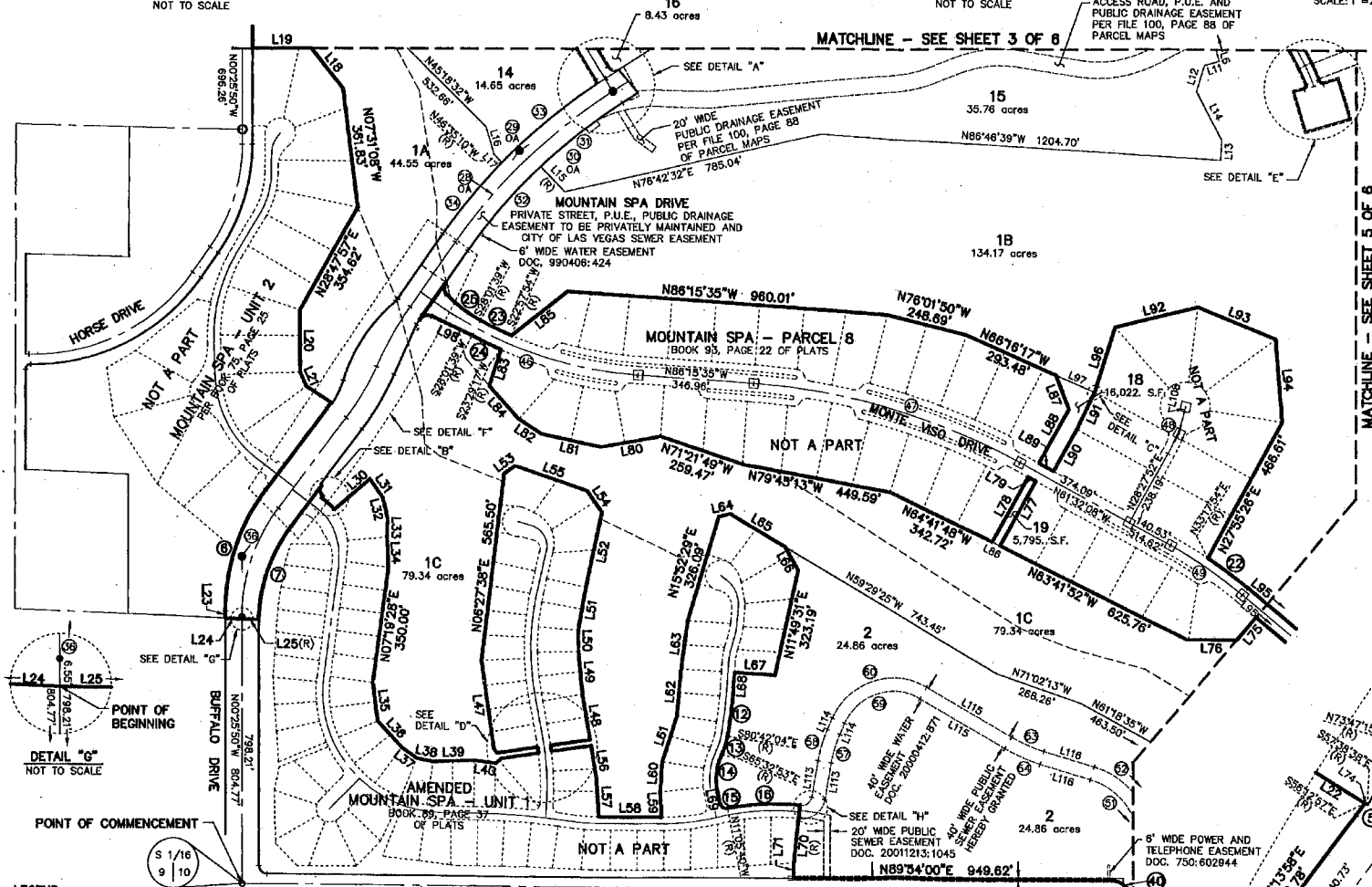
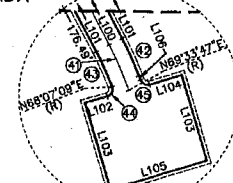
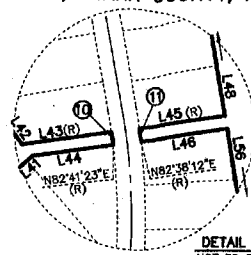
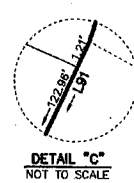
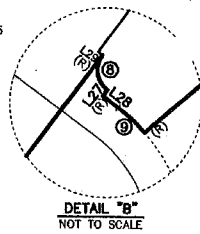
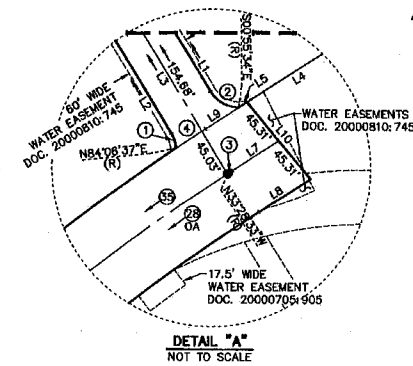
2. MONTE VISO DRIVE IS A PUBLIC DRAINAGE EASEMENT TO BE PRIVATELY MAINTAINED PER "MOUNTAIN SPA - PARCEL 7", BOOK 93, PAGE 12 OF PLATS AND "MOUNTAIN SPA - PARCEL 8", BOOK 93, PAGE 22 OF PLATS.

CURVE	DELTA	RADIUS	LENGTH	TANGENT
1	129°17'58"	49.50	102.94	98.78
2	58°12'58"	20.00	20.32	11.14
3	17°18'48"	210.00	63.46	31.97
4	93°39'23"	323.50	138.03	70.61
5	81°43'51"	30.00	42.78	25.98
6	78°23'18"	30.00	41.04	24.46
7	02°15'55"	407.00	16.09	8.05
8	00°59'23"	400.00	8.90	3.40
9	02°10'20"	2346.00	88.95	44.49
10	11°44'47"	490.00	82.00	41.15
11	08°36'18"	2346.00	24.23	12.37
12	03°48'58"	400.00	25.44	12.72
13	00°53'38"	1035.00	18.19	8.07

27 DECEMBER 2001 (A)
JOB# 0158.0200

MOUNTAIN SPA

A MERGER AND RESUBDIVISION OF PARCEL 2, FILE 94, PAGE 12 OF PARCEL MAPS, AMENDED PARCEL MAP, FILE 100, PAGE 88 OF PARCEL MAPS, COMMON LOT "I", BOOK 93, PAGE 12 OF PLATS AND MOUNTAIN SPA DRIVE, SITUATE IN SECTION 10, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA



CURVE	DELTA	RADIUS	LENGTH	TANGENT
1	28.2836°	38.00	12.95	6.59
2	28.2836°	38.00	12.95	6.59
3	00.1109°	1703.00	5.82	1.73
4	01.0258°	1745.00	31.97	15.88
5	02.0856°	1743.00	32.26	15.89
6	36.3848°	613.00	392.26	203.17
7	36.3848°	613.00	392.26	158.89
8	02.0856°	1743.00	32.26	15.89
9	01.0258°	1745.00	31.97	15.88
10	00.1109°	1703.00	5.82	1.73
11	01.0258°	1745.00	31.97	15.88
12	02.0856°	1743.00	32.26	15.89
13	36.3848°	613.00	392.26	203.17
14	36.3848°	613.00	392.26	158.89
15	02.0856°	1743.00	32.26	15.89
16	01.0258°	1745.00	31.97	15.88
17	00.1109°	1703.00	5.82	1.73
18	01.0258°	1745.00	31.97	15.88
19	02.0856°	1743.00	32.26	15.89
20	36.3848°	613.00	392.26	203.17
21	36.3848°	613.00	392.26	158.89
22	02.0856°	1743.00	32.26	15.89
23	01.0258°	1745.00	31.97	15.88
24	00.1109°	1703.00	5.82	1.73
25	01.0258°	1745.00	31.97	15.88
26	02.0856°	1743.00	32.26	15.89
27	36.3848°	613.00	392.26	203.17
28	36.3848°	613.00	392.26	158.89
29	02.0856°	1743.00	32.26	15.89
30	01.0258°	1745.00	31.97	15.88
31	00.1109°	1703.00	5.82	1.73
32	01.0258°	1745.00	31.97	15.88
33	02.0856°	1743.00	32.26	15.89
34	36.3848°	613.00	392.26	203.17
35	36.3848°	613.00	392.26	158.89
36	02.0856°	1743.00	32.26	15.89
37	01.0258°	1745.00	31.97	15.88
38	00.1109°	1703.00	5.82	1.73
39	01.0258°	1745.00	31.97	15.88
40	02.0856°	1743.00	32.26	15.89
41	36.3848°	613.00	392.26	203.17
42	36.3848°	613.00	392.26	158.89
43	02.0856°	1743.00	32.26	15.89
44	01.0258°	1745.00	31.97	15.88
45	00.1109°	1703.00	5.82	1.73
46	01.0258°	1745.00	31.97	15.88
47	02.0856°	1743.00	32.26	15.89
48	36.3848°	613.00	392.26	203.17
49	36.3848°	613.00	392.26	158.89
50	02.0856°	1743.00	32.26	15.89
51	01.0258°	1745.00	31.97	15.88
52	00.1109°	1703.00	5.82	1.73
53	01.0258°	1745.00	31.97	15.88
54	02.0856°	1743.00	32.26	15.89
55	36.3848°	613.00	392.26	203.17
56	36.3848°	613.00	392.26	158.89
57	02.0856°	1743.00	32.26	15.89
58	01.0258°	1745.00	31.97	15.88
59	00.1109°	1703.00	5.82	1.73
60	01.0258°	1745.00	31.97	15.88

LINE	BEARING	DISTANCE
L1	N31°28'58"W	127.59
L2	N31°28'58"W	143.32
L3	N31°28'58"W	138.71
L4	N56°42'37"E	118.14
L5	N56°42'37"E	84.34
L6	N56°42'37"E	49.88
L7	N56°42'37"E	58.16
L8	N56°42'37"E	35.82
L9	N56°42'37"E	30.82
L10	N30°40'00"E	47.39
L11	N7°30'40"E	82.79
L12	N16°31'48"E	61.31
L13	N02°10'58"E	61.31
L14	N28°13'54"W	164.96
L15	N44°03'07"W	105.63
L16	N16°32'17"W	84.06
L17	N40°11'15"W	44.06
L18	N38°50'44"W	153.07
L19	N89°24'10"E	175.48
L20	N04°47'07"W	187.00
L21	N23°22'39"W	47.02
L22	N58°03'38"W	89.04
L23	N00°23'59"W	21.68
L24	N87°43'41"W	50.06
L25	N89°19'59"W	50.11
L26	N36°13'58"E	153.73
L27	N37°12'58"E	7.98
L28	N52°47'22"W	17.98
L29	N03°48'02"W	5.09
L30	N48°48'02"W	140.07
L31	N34°55'23"W	67.23
L32	N14°18'02"W	63.83
L33	N00°53'23"E	57.52
L34	N03°00'07"W	20.60
L35	N07°37'17"W	117.62
L36	N42°52'23"W	108.15
L37	N54°28'31"W	54.78
L38	N74°11'09"W	50.72
L39	N87°37'21"E	123.22
L40	N89°54'39"W	66.05
L41	N44°11'17"W	10.90
L42	N39°41'24"W	16.46
L43	N81°28'38"E	123.00
L44	N81°28'38"E	110.78
L45	N81°28'38"E	119.88
L46	N81°28'38"E	120.75
L47	N08°22'39"W	268.23
L48	N00°15'48"W	59.59
L49	N05°44'12"W	128.51
L50	N01°07'19"W	64.66
L51	N09°29'04"E	130.79
L52	N11°13'02"E	229.89
L53	N53°39'45"E	53.48
L54	N34°48'32"W	78.45
L55	N71°42'49"W	228.72
L56	N09°20'04"W	104.76
L57	N04°00'06"W	114.90
L58	N89°57'42"W	187.74
L59	N03°19'11"W	78.12
L60	N03°28'04"E	90.95
L61	N17°22'16"E	145.31
L62	N04°34'10"E	141.93
L63	N07°20'05"E	144.68
L64	N77°18'41"E	35.25
L65	N59°29'25"W	191.10
L66	N25°43'30"W	50.89
L67	N88°30'53"W	121.94
L68	N03°24'07"E	44.42
L69	N12°33'41"W	53.73
L70	N05°10'09"E	174.06
L71	N00°05'38"W	46.28
L72	N36°13'58"E	208.77
L73	N34°18'02"W	113.90
L74	N4°48'02"W	4.63
L75	N39°30'46"E	88.60
L76	N89°38'17"E	151.18
L77	N28°17'52"E	222.44
L78	N28°17'52"E	223.37
L79	N61°32'08"W	26.00
L80	N79°33'59"E	181.82
L81	N77°14'29"W	182.51
L82	N56°37'14"W	79.59
L83	N17°52'01"E	113.78
L84	N42°00'24"W	134.43
L85	N61°06'48"E	213.58
L86	N53°38'17"W	26.02
L87	N21°04'13"W	109.15
L88	N28°17'52"E	185.73
L89	N61°32'08"W	50.00
L90	N28°17'52"E	144.24
L91	N24°30'07"E	124.17
L92	N75°38'28"E	253.05
L93	N68°16'57"W	282.00
L94	N05°02'49"W	251.07
L95	N50°29'14"W	188.18
L96	N16°58'25"E	204.70
L97	N68°16'17"W	125.69
L98	N64°00'41"W	132.02
L99	N54°10'06"E	121.59
L100	N28°07'30"W	644.51
L101	N28°07'30"W	202.28
L102	N73°01'40"E	32.03
L103	N16°58'25"W	123.70
L104	N73°01'40"E	45.00
L105	N73°01'40"E	137.28
L106	N21°58'20"W	6.00
L107	N45°30'10"W	42.18
L108	N12°49'14"E	14.28
L109	N34°19'00"E	236.90
L110	N55°40'54"W	90.00
L111	N84°33'51"W	3.00
L112	N05°26'09"E	40.00
L113	N09°19'35"E	111.38
L114	N22°57'48"E	36.79
L115	N59°53'35"W	235.53
L116	N73°11'39"W	157.19

NOTE
MONTE VISO DRIVE IS A PUBLIC DRAINAGE EASEMENT TO BE PRIVATELY MAINTAINED PER "MOUNTAIN SPA - PARCEL 7", BOOK 93, PAGE 12 OF PLATS AND "MOUNTAIN SPA - PARCEL 8", BOOK 93, PAGE 22 OF PLATS.

LEGEND
SUBDIVISION BOUNDARY LINE
STREET CENTERLINE
RIGHT-OF-WAY LINE
LOT LINE
MATCH LINE
EASEMENT LINE
ASSESSOR'S PARCEL LINE
DRAINAGE EASEMENT LINE
SEE SHEET 6 OF 6 FOR DETAIL
FOUND MONUMENTATION AS DESCRIBED
FOUND REBAR AND ALUMINUM CAP, PLS 6625
PER RECORD OF SURVEY FILE 88, PAGE 82
TYPE III MONUMENT STAMPED
"F W ORBAN PLS 4541" WITH TYPE IV
MONUMENTS IN TOP OF CURB TO BE SET
PER BOOK 93, PAGE 22 OF PLATS
TYPE II MONUMENT, STAMPED
"F W ORBAN PLS 4541" WITH TYPE IV
MONUMENTS IN TOP OF CURB TO BE SET
PER FILE 100, PAGE 88 OF PARCEL MAPS
CENTERLINE POINT OF INTERSECTION

27 DECEMBER 2001 (M)
JOB# 0158.0200

MOUNTAIN SPA

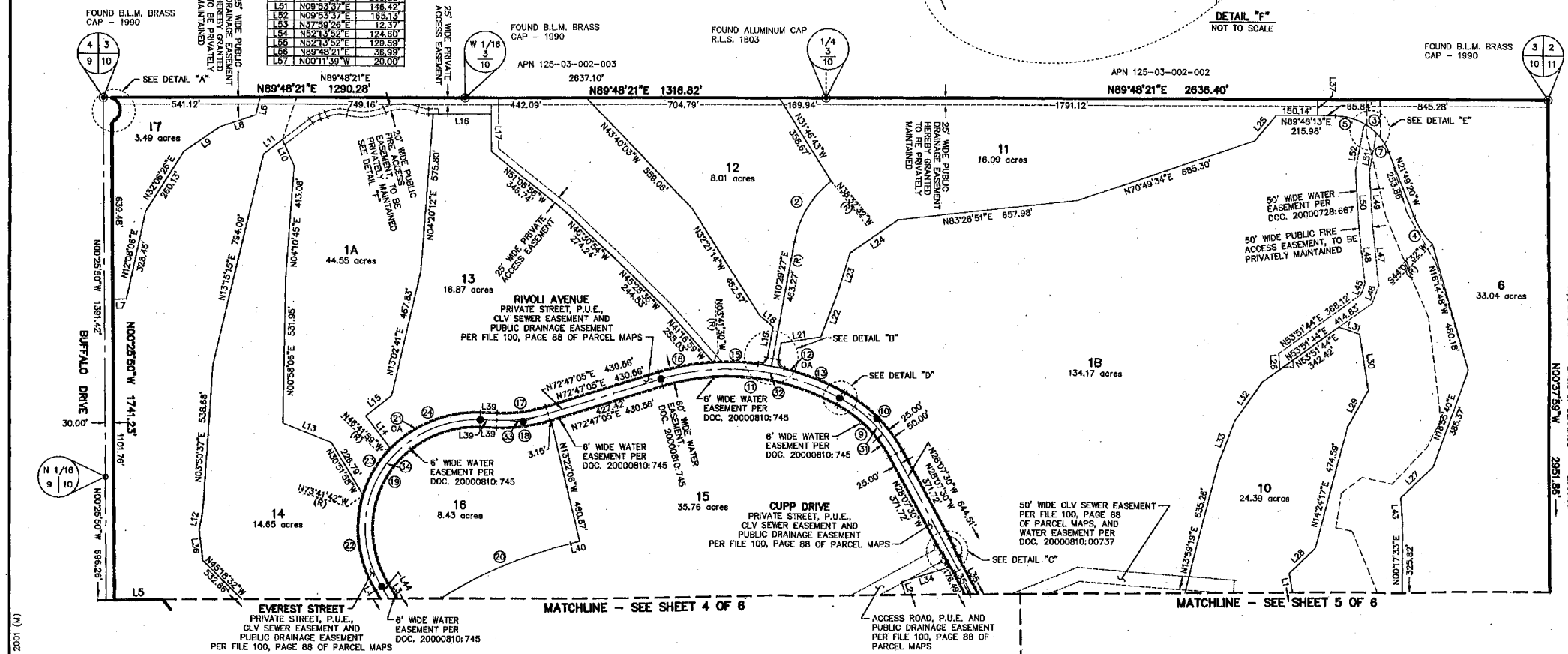
A MERGER AND RESUBDIVISION OF PARCEL 2, FILE 94, PAGE 12 OF PARCEL MAPS, AMENDED PARCEL MAP, FILE 100, PAGE 88 OF PARCEL MAPS, COMMON LOT "I", BOOK 93, PAGE 12 OF PLATS AND MOUNTAIN SPA DRIVE, SITUATE IN SECTION 10, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA



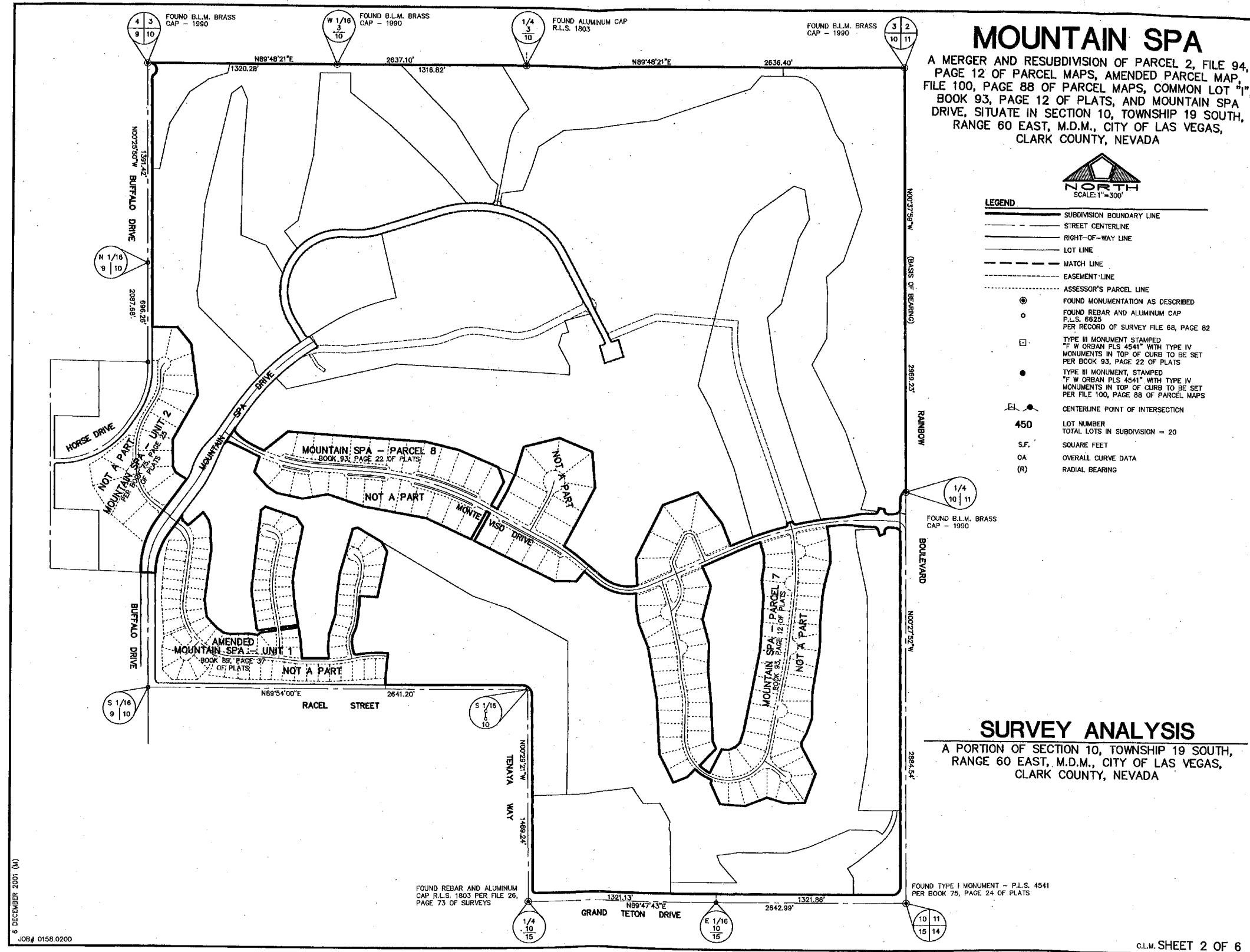
LEGEND

- SUBDIVISION BOUNDARY LINE
- STREET CENTERLINE
- RIGHT-OF-WAY LINE
- LOT LINE
- MATCH LINE
- EASEMENT LINE
- ASSESSOR'S PARCEL LINE
- DRAINAGE EASEMENT LINE
SEE SHEET 6 OF 6 FOR DETAIL
- FOUND MONUMENTATION AS DESCRIBED
- FOUND REBAR AND ALUMINUM CAP
P.L.S. 6825
PER RECORD OF SURVEY FILE 68, PAGE 82
- TYPE II MONUMENT STAMPED
"F" W ORBAN PLS 4541" WITH TYPE IV
MONUMENTS IN TOP OF CURB TO BE SET
PER BOOK 93, PAGE 22 OF PLATS
- TYPE III MONUMENT, STAMPED
"F" W ORBAN PLS 4541" WITH TYPE IV
MONUMENTS IN TOP OF CURB TO BE SET
PER FILE 100, PAGE 88 OF PARCEL MAPS
- CENTERLINE POINT OF INTERSECTION
- 450 LOT NUMBER
TOTAL LOTS IN SUBDIVISION = 20
- S.F. SQUARE FEET
- OA OVERALL CURVE DATA
- (R) RADIAL BEARING

CURVE	DELTA	RADIUS	LENGTH	TANGENT
1	80°45'40"	30.00'	45.43'	28.35'
2	105°30'01"	370.00'	204.15'	138.22'
3	88°22'27"	210.00'	250.80'	142.85'
4	24°03'08"	290.00'	121.74'	61.78'
5	31°03'59"	210.00'	114.90'	58.95'
6	13°41'47"	210.00'	66.20'	28.22'
7	23°19'41"	210.00'	85.50'	43.35'
8	08°08'35"	250.00'	35.38'	17.72'
9	12°13'58"	475.00'	271.32'	139.47'
10	32°43'38"	525.00'	299.88'	154.19'
11	46°21'47"	805.00'	651.40'	344.72'
12	46°21'47"	855.00'	691.86'	366.13'
13	19°23'05"	855.00'	230.08'	115.74'
14	03°14'20"	855.00'	48.33'	24.17'
15	10°56'38"	855.00'	103.31'	51.90'
16	13°12'58"	855.00'	201.81'	101.37'
17	19°02'28"	855.00'	343.73'	181.17'
18	19°02'28"	855.00'	583.75'	319.83'
19	12°31'28"	381.87'	822.17'	708.59'
20	12°31'28"	1485.00'	518.33'	260.90'
21	12°31'28"	431.87'	923.82'	801.38'
22	47°47'15"	431.87'	360.20'	181.32'
23	26°59'43"	431.87'	203.48'	103.68'
24	48°44'30"	431.87'	361.14'	194.88'
25	23°04'14"	80.00'	32.21'	16.33'
26	23°04'14"	100.00'	40.27'	20.41'
27	12°03'55"	120.00'	65.27'	32.61'
28	12°03'55"	100.00'	51.06'	25.67'
29	58°12'58"	20.00'	20.32'	11.14'
30	12°37'58"	45.50'	102.34'	51.78'
31	12°37'58"	600.00'	285.50'	145.81'
32	46°21'47"	830.00'	671.83'	355.42'
33	19°02'28"	568.75'	189.50'	95.64'
34	12°31'28"	408.87'	875.89'	754.97'
35	41°12'30"	120.00'	66.59'	33.29'
36	41°12'30"	100.00'	72.21'	37.76'
37	37°59'15"	220.00'	145.89'	75.72'
38	37°59'15"	200.00'	132.63'	68.84'
39	44°24'10"	150.00'	116.25'	61.22'
40	44°24'10"	170.00'	131.75'	69.38'
41	21°13'14"	120.00'	44.44'	22.48'
42	21°13'14"	100.00'	37.04'	18.73'



6 DECEMBER 2001 (4)
JOB# 0158.0200



ACKNOWLEDGMENT

STATE OF NEVADA, SS
COUNTY OF CLARKTHIS INSTRUMENT WAS ACKNOWLEDGED BEFORE ME ON 11/11/02
BY BRENT LOVETT AS VICE PRESIDENT OF
MOUNTAIN SPA DRIVE, LLC, A DELAWARE LIMITED LIABILITY
COMPANYNotary Public - State of Nevada
My Commission Expires 11/19/2004NOTARY PUBLIC IN AND FOR SAID COUNTY AND STATE
MY COMMISSION EXPIRES 11/19/2004

OWNER'S CERTIFICATE & DEDICATION

MOUNTAIN SPA RESIDENTIAL DEVELOPMENT, LLC, A NEVADA LIMITED LIABILITY COMPANY, MOUNTAIN SPA RESORT DEVELOPMENT, LLC, A NEVADA LIMITED LIABILITY COMPANY AND MOUNTAIN SPA DRIVE, LLC, A DELAWARE LIMITED LIABILITY COMPANY (LESSORS) DO HEREBY CERTIFY THAT THEY ARE THE OWNERS OF THE PARCEL OF LAND WHICH IS SHOWN UPON THE MAP OF:

MOUNTAIN SPA

AND DO HEREBY CONSENT TO THE PREPARATION AND RECORDATION OF THIS MAP AND DO HEREBY OFFER AND GRANT ALL PUBLIC EASEMENTS AS INDICATED AND OUTLINED HEREON TO THE CITY OF LAS VEGAS FOR THE USE OF THE PUBLIC.

FURTHERMORE, THE UNDERSIGNED OWNERS HEREBY GRANT AND CONVEY TO SPRINT, SOUTHWEST GAS CORPORATION, LAS VEGAS VALLEY WATER DISTRICT AND COX COMMUNICATIONS, LAS VEGAS, INC., AND TO THEIR RESPECTIVE SUCCESSORS AND ASSIGNS A FIVE FOOT WIDE EASEMENT ON ALL PROPERTY LINES THAT ADJUT PRIVATE STREETS, TO INCLUDE ACCESS TO ABOVEGROUND TELEPHONE EQUIPMENT PADS; AND TO NEVADA POWER COMPANY, A FIVE FOOT WIDE EASEMENT CONTIGUOUS TO AND/OR BACK OF PUBLIC OR PRIVATE STREETS FOR ABOVEGROUND TRANSFORMERS, WHERE NO SIDEWALK EXISTS, THE WIDTH OF SAID EASEMENT SHALL BE DEFINED BY A LINE RUNNING PARALLEL TO AND TEN FEET DISTANT, MEASURED AT RIGHT ANGLES FROM THE BACK OF SAID DRIVEWAY OR SIDEWALK, AND AN ADDITIONAL TWO FEET AROUND TRANSFORMER PADS WITHIN THE PLATTED LOTS FOR THE CONSTRUCTION, MAINTENANCE OPERATION AND FUTURE REMOVAL OF UNDERGROUND POWER LINES AND APPURTENANCES, TOGETHER WITH THE RIGHT OF INGRESS AND EGRESS HEREON. FURTHERMORE, THE UNDERSIGNED OWNERS HEREBY GRANT AND CONVEY TO THE CITY OF LAS VEGAS AND TO ITS SUCCESSORS AND ASSIGNS A FIVE-FOOT WIDE EASEMENT ADJACENT TO ALL PROPERTY LINES WHERE LOTS ADJUT PUBLIC OR PRIVATE STREETS FOR THE PURPOSE OF PLACING PUBLIC FIRE HYDRANTS AND A FIVE-FOOT WIDE EASEMENT ADJACENT TO ALL PROPERTY LINES WHERE LOTS ADJUT PUBLIC STREETS FOR THE PURPOSE OF PLACING PUBLIC STREETLIGHTS AND AN ADDITIONAL EASEMENT OF UP TO TWO FEET IN RADIUS FROM EACH FIRE HYDRANT AND STREETLIGHT, TO EXTEND BEYOND THE FIVE-FOOT EASEMENT IF NECESSARY, TOGETHER WITH THE RIGHT OF INGRESS TO AND EGRESS THEREFROM.

MOUNTAIN SPA RESIDENTIAL DEVELOPMENT, LLC, A NEVADA LIMITED LIABILITY COMPANY

JACK SOMMER, MANAGER/PRESIDENT 12/6/01 DATE

MOUNTAIN SPA RESORT DEVELOPMENT, LLC, A NEVADA LIMITED LIABILITY COMPANY

BRENT LOVETT, VICE PRESIDENT 11/16/02 DATE

MOUNTAIN SPA RESORT DEVELOPMENT, LLC, A NEVADA LIMITED LIABILITY COMPANY

JACK SOMMER, MANAGER/PRESIDENT 12/6/01 DATE

ACKNOWLEDGMENT

STATE OF NEVADA, SS
COUNTY OF CLARKTHIS INSTRUMENT WAS ACKNOWLEDGED BEFORE ME ON December 6, 2001
BY JACK SOMMER AS MANAGER/PRESIDENT OF MOUNTAIN SPA RESIDENTIAL DEVELOPMENT, LLC, A NEVADA LIMITED LIABILITY COMPANY AND MOUNTAIN SPA RESORT DEVELOPMENT, LLC, A NEVADA LIMITED LIABILITY COMPANYNotary Public - State of Nevada
My Commission Expires 11/2/05NOTARY PUBLIC IN AND FOR SAID COUNTY AND STATE
MY COMMISSION EXPIRES 11/2/05

CERTIFICATE OF EASEMENT RECIPIENTS

WE, THE HEREIN NAMED EASEMENT RECIPIENTS APPROVE THE GRANT OF THE DESIGNATED EASEMENTS.

Gary Lange 11/29/01 DATE
LAS VEGAS VALLEY WATER DISTRICT GARY LANGEStephen Jones 11/29/01 DATE
SOUTHWEST GAS CORPORATION STEPHEN JONESJames C. Bell 12/5/01 DATE
NEVADA POWER COMPANY JAMES C. BELLPatrick R. Richardson 11-28-01 DATE
SPRINT PATRICK R. RICHARDSONMarsha Thatcher 11/28/01 DATE
COX COMMUNICATIONS LAS VEGAS, INC. MARSHA THATCHERCharles Kulkowski 12-11-2001 DATE
CITY OF LAS VEGAS CHARLES KULKOWSKI

MOUNTAIN SPA

A MERGER AND RESUBDIVISION OF PARCEL 2, FILE 94, PAGE 12 OF PARCEL MAPS, AMENDED PARCEL MAP, FILE 100, PAGE 88 OF PARCEL MAPS, COMMON LOT "1", BOOK 93, PAGE 12 OF PLATS AND MOUNTAIN SPA DRIVE, SITUATE IN SECTION 10, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA

SURVEYOR'S CERTIFICATE

I, FREDERICK W. ORBAN, A PROFESSIONAL LAND SURVEYOR LICENSED IN THE STATE OF NEVADA, CERTIFY THAT:

1. THIS PLAT REPRESENTS THE RESULTS OF A SURVEY CONDUCTED UNDER MY DIRECT SUPERVISION AT THE INSTANCE OF MOUNTAIN SPA RESIDENTIAL DEVELOPMENT, LLC, A NEVADA LIMITED LIABILITY CORPORATION.
2. THE LANDS SURVEYED LIE WITHIN SECTION 10, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AND THE SURVEY WAS COMPLETED ON AUGUST 31, 1994.
3. THIS PLAT COMPLIES WITH THE APPLICABLE STATE STATUTES AND ANY LOCAL ORDINANCES IN EFFECT ON THE DATE THAT THE GOVERNING BODY GAVE ITS FINAL APPROVAL.
4. THE MONUMENTS DEPICTED ON THE PLAT ARE OF THE CHARACTER SHOWN, OCCUPY THE POSITIONS INDICATED AND ARE OF SUFFICIENT DURABILITY.

RECORDATION OF THIS SUBDIVISION MAP ESTABLISHES A LIMITED WATER COMMITMENT FROM THE LAS VEGAS WATER DISTRICT AS FOLLOWS:

LOT/BLOCK	ACRE- FEET/YEAR
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	0.00
9	0.00
10	0.00
11	0.00
12	0.00
13	0.00
14	0.00
15	0.00
16	0.00
17	0.00
18	0.00
19	0.00

FREDERICK W. ORBAN
PROFESSIONAL LAND SURVEYOR
NEVADA LICENSE NO. 4541

LEGAL DESCRIPTION

BEING PARCEL 2, AS SHOWN ON THAT CERTAIN MAP ON FILE IN THE CLARK COUNTY RECORDER'S OFFICE IN FILE 94 OF PARCEL MAPS AT PAGE 12, SITUATE IN SECTION 10, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA;

TOGETHER WITH THAT CERTAIN AMENDED PARCEL MAP ON FILE IN THE CLARK COUNTY RECORDER'S OFFICE IN FILE 100 OF PARCEL MAPS AT PAGE 88, SITUATE IN SAID SECTION 10;

TOGETHER WITH COMMON LOT "1" AS SHOWN ON THAT CERTAIN MAP KNOWN AS "MOUNTAIN SPA - PARCEL 7" ON FILE IN THE CLARK COUNTY RECORDER'S OFFICE IN BOOK 93 OF PLATS AT PAGE 12;

TOGETHER WITH THAT PORTION OF MOUNTAIN SPA DRIVE (A PRIVATE STREET), SITUATE IN SAID SECTION 10, DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHWEST CORNER OF THE NORTHWEST QUARTER (NW 1/4) OF THE SOUTHWEST QUARTER (SW 1/4) OF SAID SECTION 10, MARKED BY AN ALUMINUM CAP, STAMPED "PLS 6625", SAME BEING THE CENTERLINE INTERSECTION OF BUFFALO DRIVE (100 FEET WIDE) AND RACEL ROAD (60 FEET WIDE); THENCE NORTH 00°25'50" WEST ALONG THE WEST LINE OF SAID NORTHWEST QUARTER (NW 1/4), COINCIDENT WITH THE CENTERLINE OF SAID BUFFALO DRIVE, 799.21 FEET TO THE POINT OF BEGINNING;

THENCE NORTH 87°43'47" WEST, DEPARTING SAID CENTERLINE, 50.08 FEET TO THE WESTERLY RIGHT-OF-WAY LINE OF MOUNTAIN SPA DRIVE (A PRIVATE STREET); THENCE ALONG SAID WESTERLY RIGHT-OF-WAY LINE, THE FOLLOWING NINE (9) COURSES: (1.) NORTH 00°25'50" WEST, 21.83 FEET TO THE BEGINNING OF A CURVE CONCAVE SOUTHEASTERLY, HAVING A RADIUS OF 613.00 FEET; (2.) NORTHEASTERLY 392.26 FEET ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 36°39'48"; (3.) NORTH 36°13'58" EAST, 306.78 FEET TO THE BEGINNING OF A CURVE CONCAVE NORTHEASTERLY, HAVING A RADIUS OF 500.00 FEET; (4.) NORTHEASTERLY 21.37 FEET ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 02°22'59"; (5.) SOUTH 54°28'52" EAST, 4.83 FEET TO THE BEGINNING OF A NON-TANGENT CURVE CONCAVE NORTHEASTERLY, HAVING A RADIUS OF 275.00 FEET, A RADIAL LINE TO SAID BEGINNING BEARS SOUTH 57°38'38" EAST; (6.) NORTHEASTERLY 77.48 FEET ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 18°08'37" TO THE BEGINNING OF A REVERSE CURVE CONCAVE SOUTHEASTERLY, HAVING A RADIUS OF 495.00 FEET, A RADIAL LINE TO SAID BEGINNING BEARS NORTH 58°13'45" WEST; (7.) NORTHEASTERLY 289.15 FEET ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 33°28'10" TO THE BEGINNING OF A NON-TANGENT CURVE CONCAVE SOUTHEASTERLY, HAVING A RADIUS OF 1125.00 FEET, A RADIAL LINE TO SAID BEGINNING BEARS NORTH 58°13'45" WEST; (8.) NORTHEASTERLY 10.75 FEET ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 00°32'51"; (9.) NORTH 34°19'08" EAST, 121.99 FEET; THENCE SOUTH 55°40'54" EAST DEPARTING SAID WESTERLY RIGHT-OF-WAY LINE, 90.00 FEET TO THE EASTERLY RIGHT-OF-WAY LINE OF SAID MOUNTAIN SPA DRIVE; THENCE ALONG SAID EASTERLY RIGHT-OF-WAY LINE, THE FOLLOWING EIGHT (8) COURSES: (1.) SOUTH 12°41'06" EAST, 121.99 FEET TO THE BEGINNING OF A CURVE CONCAVE SOUTHEASTERLY, HAVING A RADIUS OF 1035.00 FEET; (2.) SOUTHWESTERLY 32.12 FEET ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 01°46'40"; (3.) SOUTH 23°28'58" WEST, 165.31 FEET TO THE BEGINNING OF A CURVE CONCAVE NORTHEASTERLY, HAVING A RADIUS OF 858.00 FEET; (4.) SOUTHWESTERLY 191.43 FEET ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 12°47'00"; (5.) SOUTH 38°13'58" WEST, 208.77 FEET; (6.) SOUTH 53°46'02" EAST, 5.00 FEET; (7.) SOUTH 36°13'58" WEST, 153.73 FEET TO THE BEGINNING OF A CURVE CONCAVE SOUTHWESTERLY, HAVING A RADIUS OF 487.00 FEET; (8.) SOUTHWESTERLY 301.74 FEET ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 35°29'58"; THENCE NORTH 80°15'59" WEST, DEPARTING SAID EASTERLY RIGHT-OF-WAY LINE, 60.11 FEET TO THE POINT OF BEGINNING.

CONTAINING 501.27 ACRES.

BASIS OF BEARINGS

NORTH 00°37'59" WEST, BEING THE BEARING OF THE EAST LINE OF THE NORTHEAST QUARTER (NE 1/4) OF SECTION 10, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN ON THAT CERTAIN MAP ON FILE IN THE CLARK COUNTY RECORDER'S OFFICE IN FILE 87 OF PARCEL MAPS, AT PAGE 84.

CITY SURVEYOR'S CERTIFICATE

I, RITA M. LUNOS, CITY SURVEYOR OF THE CITY OF LAS VEGAS, DO HEREBY CERTIFY THAT I HAVE EXAMINED THE FINAL SUBDIVISION MAP OF

MOUNTAIN SPA

AND AM SATISFIED THAT THE MAP IS TECHNICALLY CORRECT.

Rita M. Lunos
RITA M. LUNOS, P.L.S.
CITY OF LAS VEGAS SURVEYOR
NEVADA LICENSE NO. 509411/14/02
DATE

DISTRICT BOARD OF HEALTH CERTIFICATE

THIS FINAL MAP IS APPROVED BY THE CLARK COUNTY DISTRICT BOARD OF HEALTH. THIS APPROVAL CONCERNS SEWAGE DISPOSAL, WATER POLLUTION, WATER QUALITY, AND WATER SUPPLY FACILITIES AND IS PREDICATED UPON PLANS FOR A PUBLIC WATER SUPPLY AND A COMMUNITY SYSTEM FOR DISPOSAL OF SEWAGE.

Mary L. Hahn
CLARK COUNTY DISTRICT BOARD OF HEALTH MARY L. HAHN12/5/01
DATE

DIVISION OF WATER RESOURCES CERTIFICATE

THIS FINAL MAP IS APPROVED BY THE DIVISION OF WATER RESOURCES OF THE DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES CONCERNING WATER QUANTITY SUBJECT TO THE REVIEW OF APPROVAL ON FILE IN THIS OFFICE.

DIVISION OF WATER RESOURCES - ROBERT S. GENZER, P.E.

12-4-01
DATE

CERTIFICATE OF DIRECTOR OF PLANNING AND DEVELOPMENT APPROVAL

I CERTIFY THAT THIS FINAL MAP SUBSTANTIALLY COMPLIES WITH THE TENTATIVE MAP AND ANY APPROVED ALTERATIONS THERETO; THAT THE MAP COMPLIES WITH APPLICABLE STATUTORY AND ORDINANCE PROVISIONS; THAT ALL CONDITIONS IMPOSED UPON THE FINAL MAP HAVE BEEN MET; AND THAT THE MAP WAS APPROVED AND THE PARCELS HEREIN WERE ACCEPTED FOR DEDICATION BY THE DIRECTOR OF PLANNING AND DEVELOPMENT ON THE 15th DAY OF DECEMBER, 2001.

Robert S. Genzer
ROBERT S. GENZER
DIRECTOR OF PLANNING AND DEVELOPMENT
CITY OF LAS VEGAS, NEVADA12/14/01
DATE

SURVEYOR'S NOTE

THIS PLAT AND THE SURVEY ON WHICH IT IS BASED MEET THE MINIMUM RELATIVE POSITIONAL ACCURACY REQUIREMENTS FOR A HIGH URBAN LAND BOUNDARY SURVEY AS DEFINED BY N.A.C. 625.730 AND N.A.C. 625.750.

RECORDER'S NOTE

ANY SUBSEQUENT CHANGES TO THIS MAP SHOULD BE EXAMINED AND MAY BE DETERMINED BY REFERENCE TO THE COUNTY RECORDER'S CUMULATIVE MAP INDEX.
N.R.S. 278.5695

Final Map Prepared By:

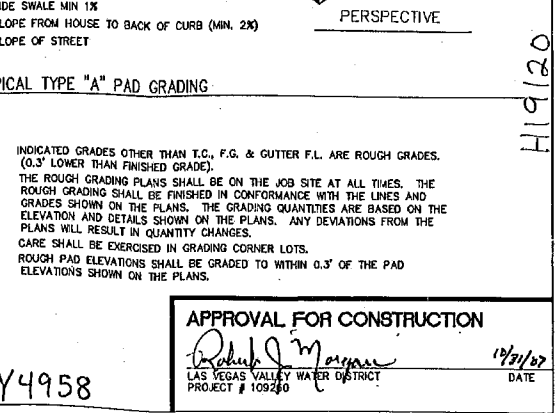
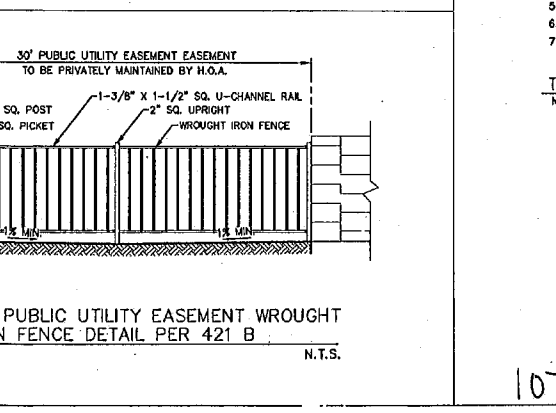
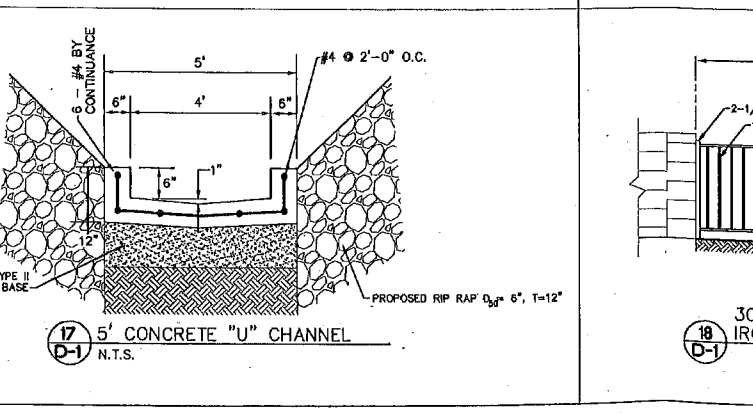
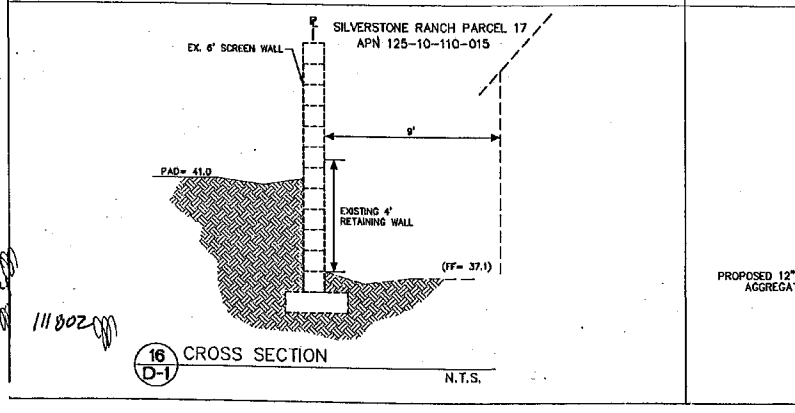
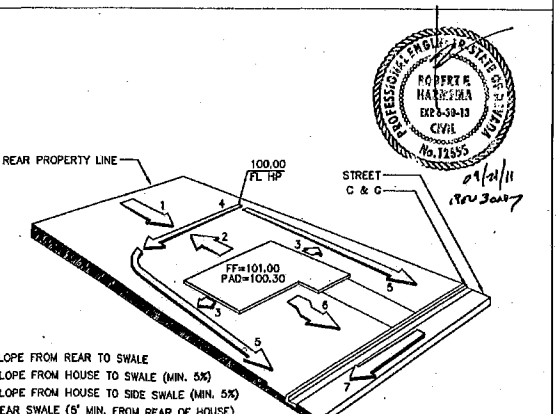
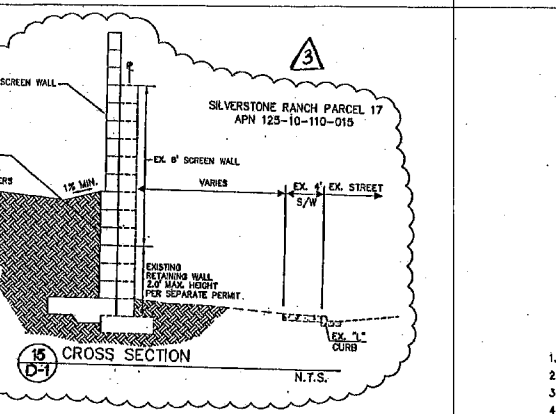
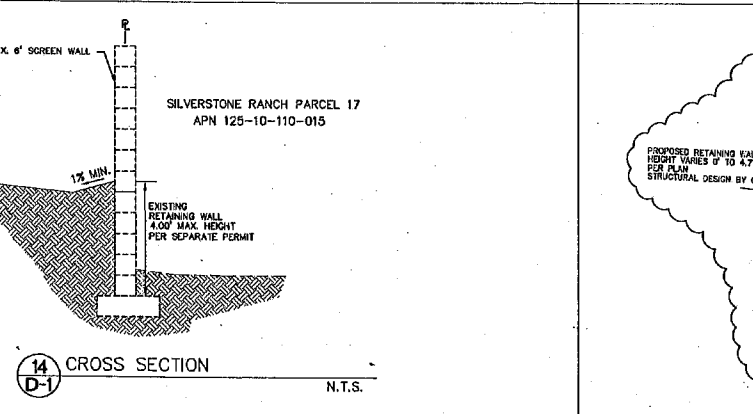
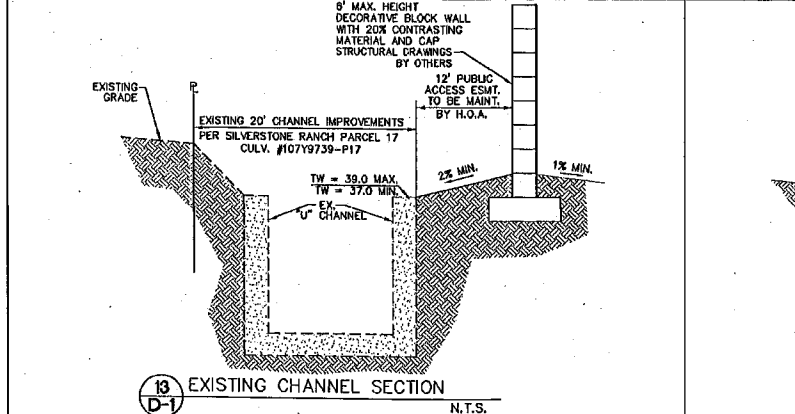
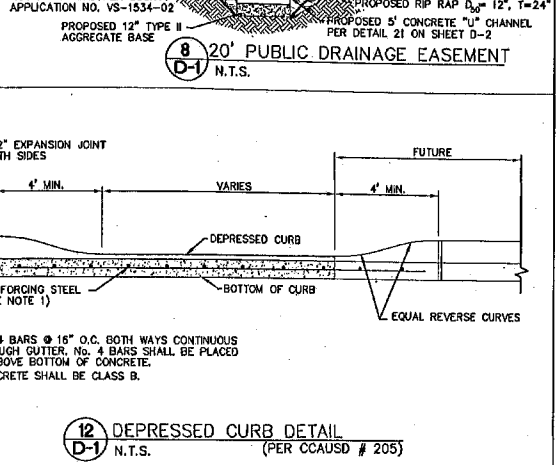
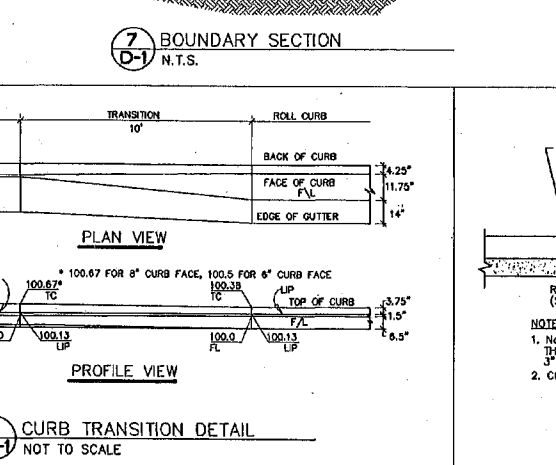
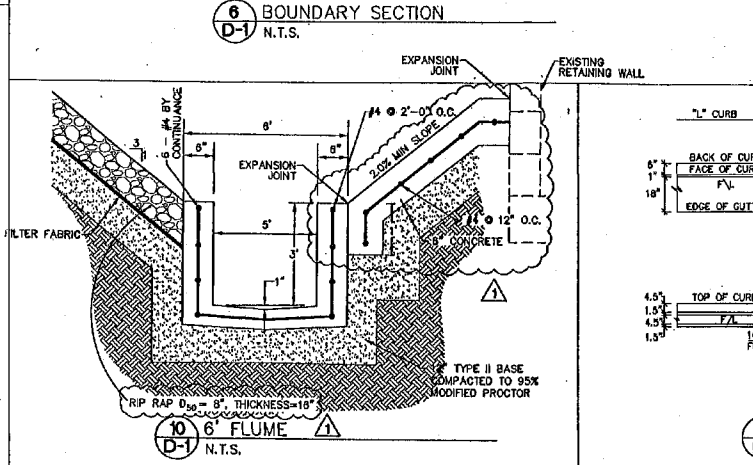
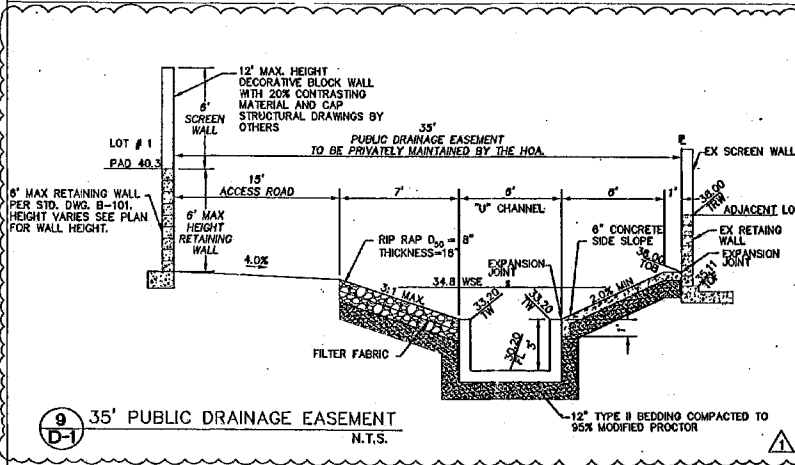
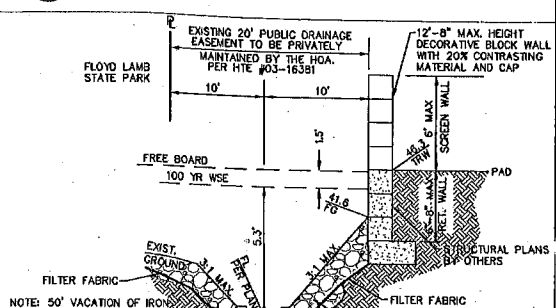
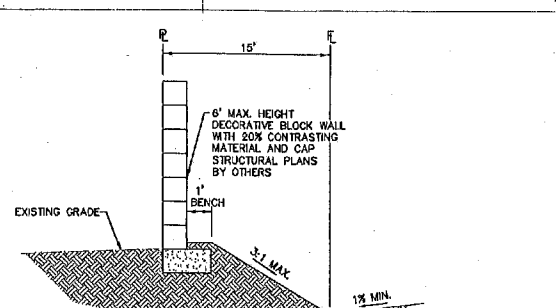
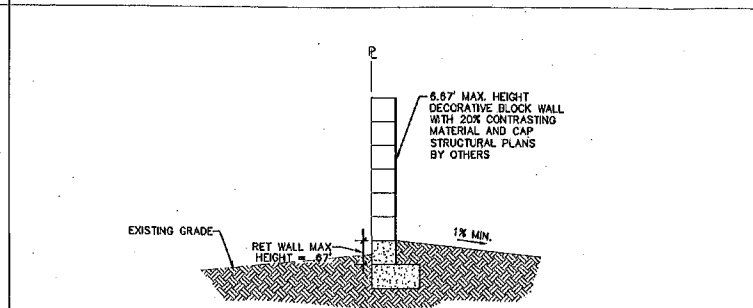
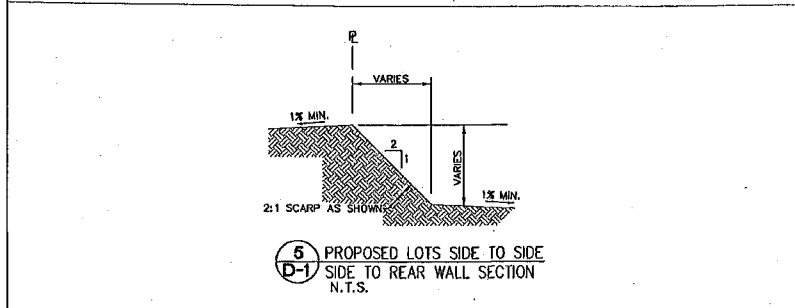
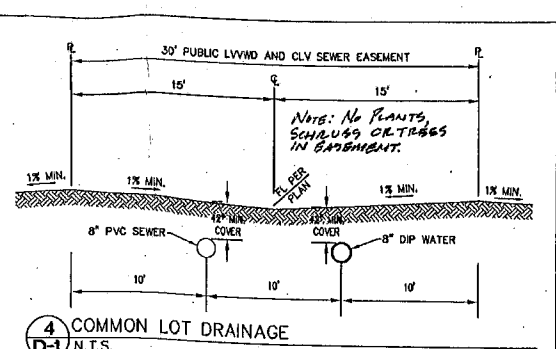
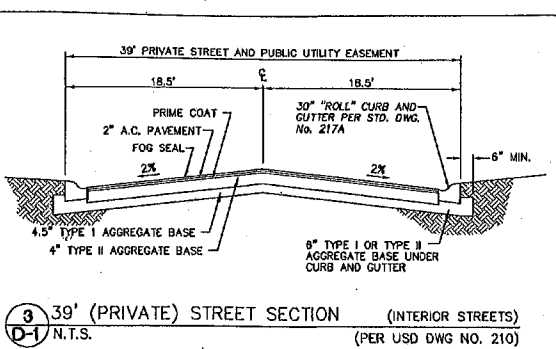
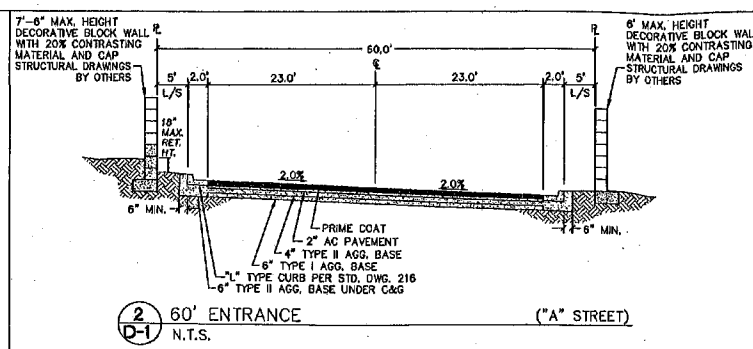
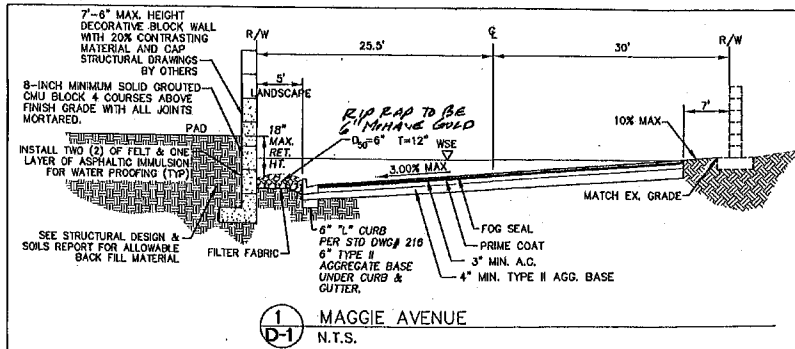
PENTACORE

6763 W. Charleston Blvd.
Las Vegas, Nevada 89146 (702) 258-4110

SHEET 1 OF 6

FM-59-01

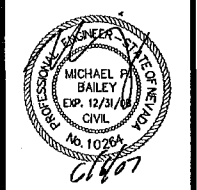
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FILED AT THE REQUEST OF
PENTACORE SURVEYING INC.
DATE 11/14/02 AT 15:48
BOOK 103 PAGE 31
OF PLATS
CLARK COUNTY, NEVADA RECORDS
JUDITH A. VANDEVER, RECORDER
FEE \$ 1046.00 DEPUTY JEB



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DESIGN
301 W. HORIZON RIDGE PKWY., HENDERSON, NEVADA 89052
Tel. 702.990.9600 Fax 702.990.9605
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DETAILS AND SECTIONS
CALGARY CROSSING
BARTON K. MAYBIE
CITY OF LAS VEGAS, NEVADA

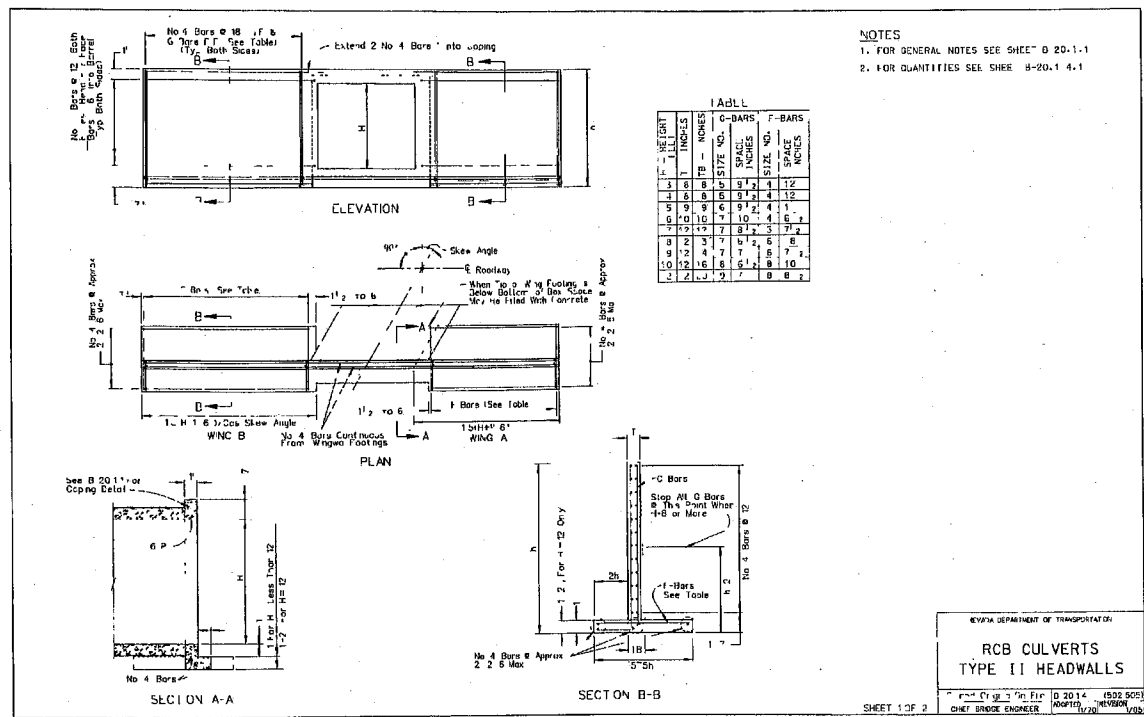
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10/15/06	REVISED CHANNEL LINING
10/15/06	REVISED CHANNEL LINING
10/15/06	REVISED CHANNEL LINING
10/15/06	REVISED CHANNEL LINING
10/15/06	REVISED CHANNEL LINING
10/15/06	REVISED CHANNEL LINING
10/15/06	REVISED CHANNEL LINING
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10/15/06	REVISED CHANNEL LINING



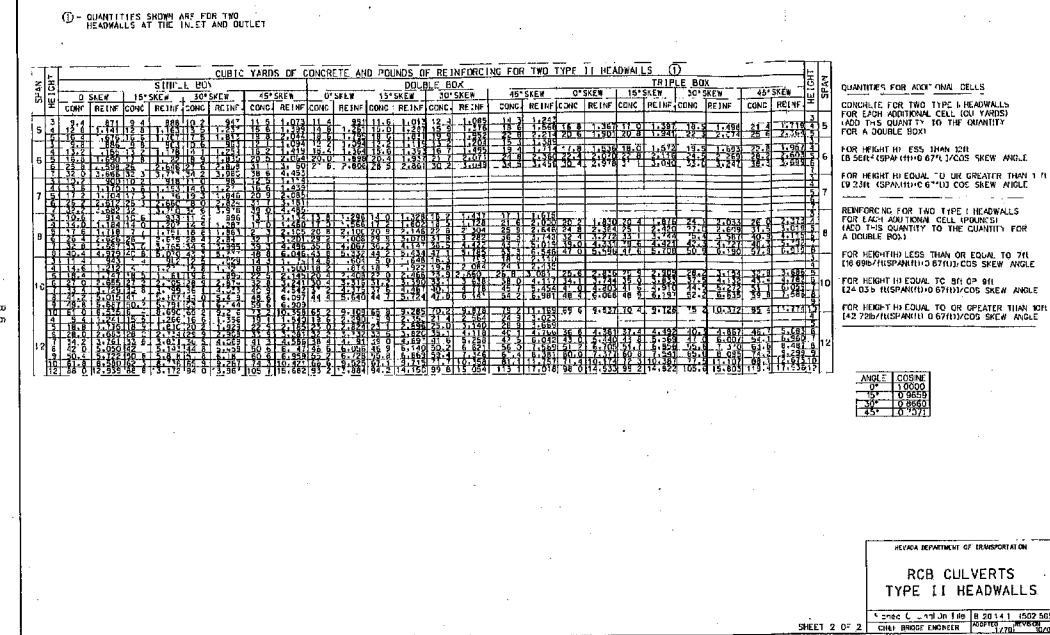
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DATE 10/15/06
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DETAILS
SHEET NUMBER
D-1
11 OF 13 SHEETS

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106312
105874
111802

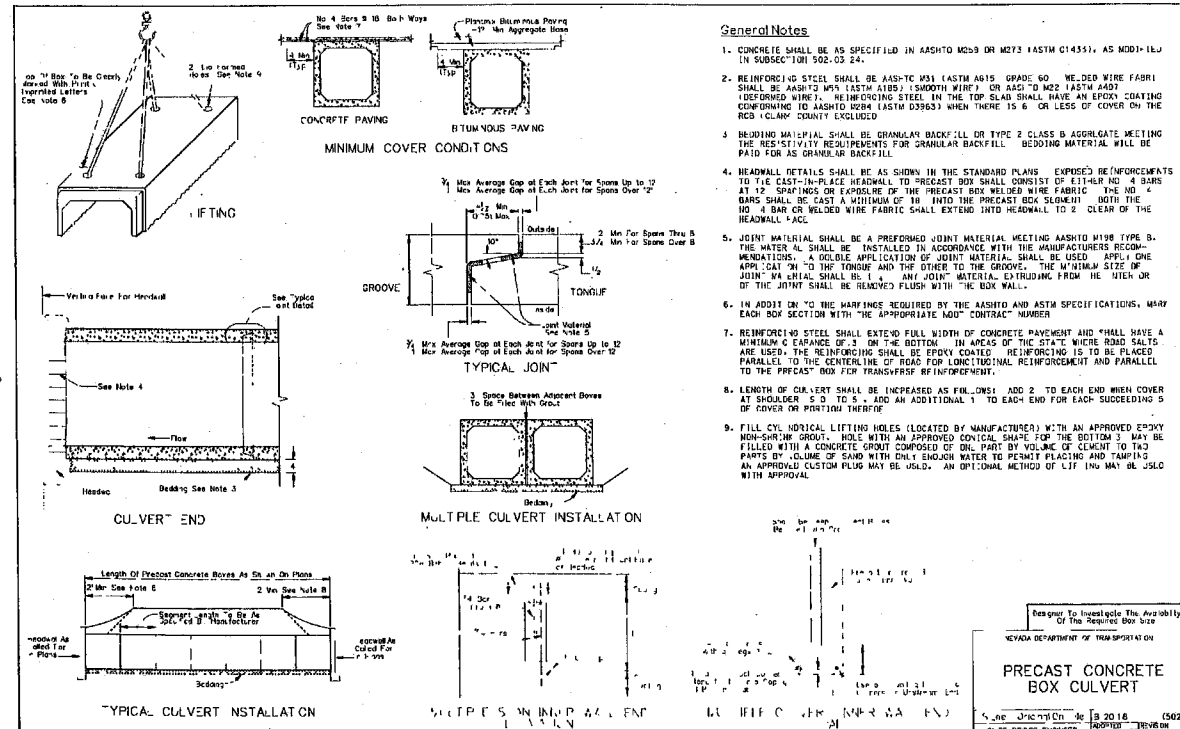
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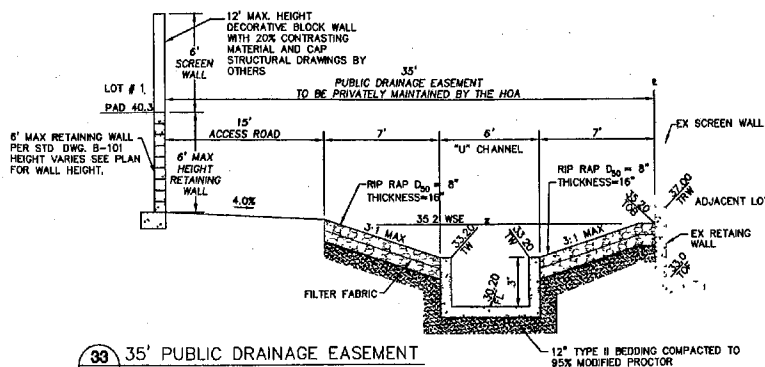
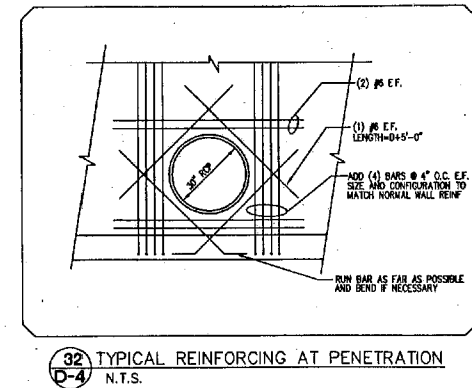
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D-4 N.T.S.

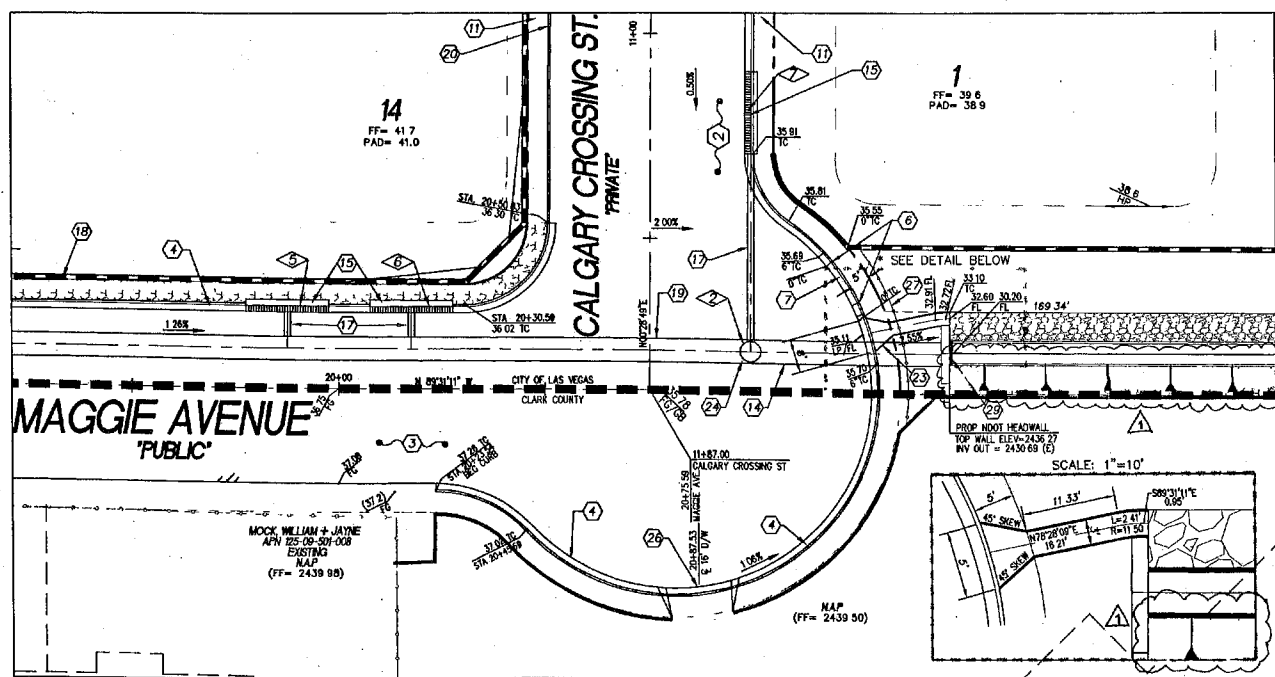
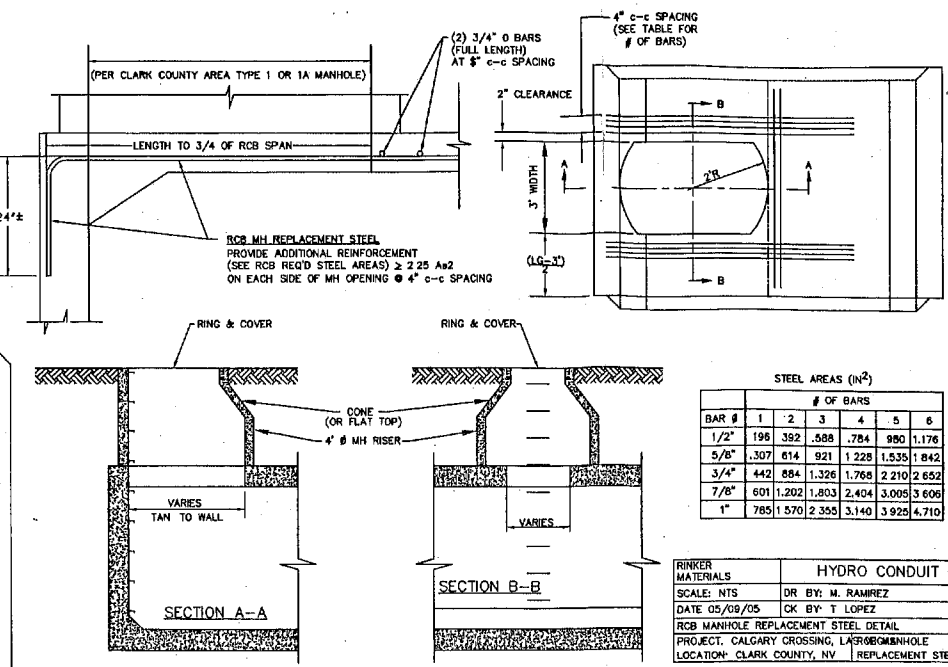
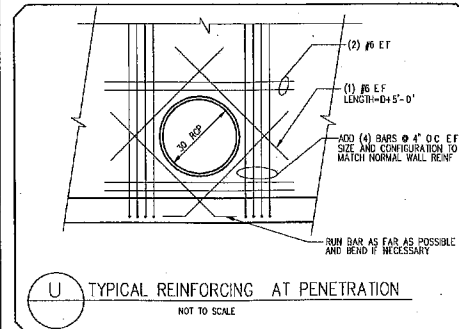
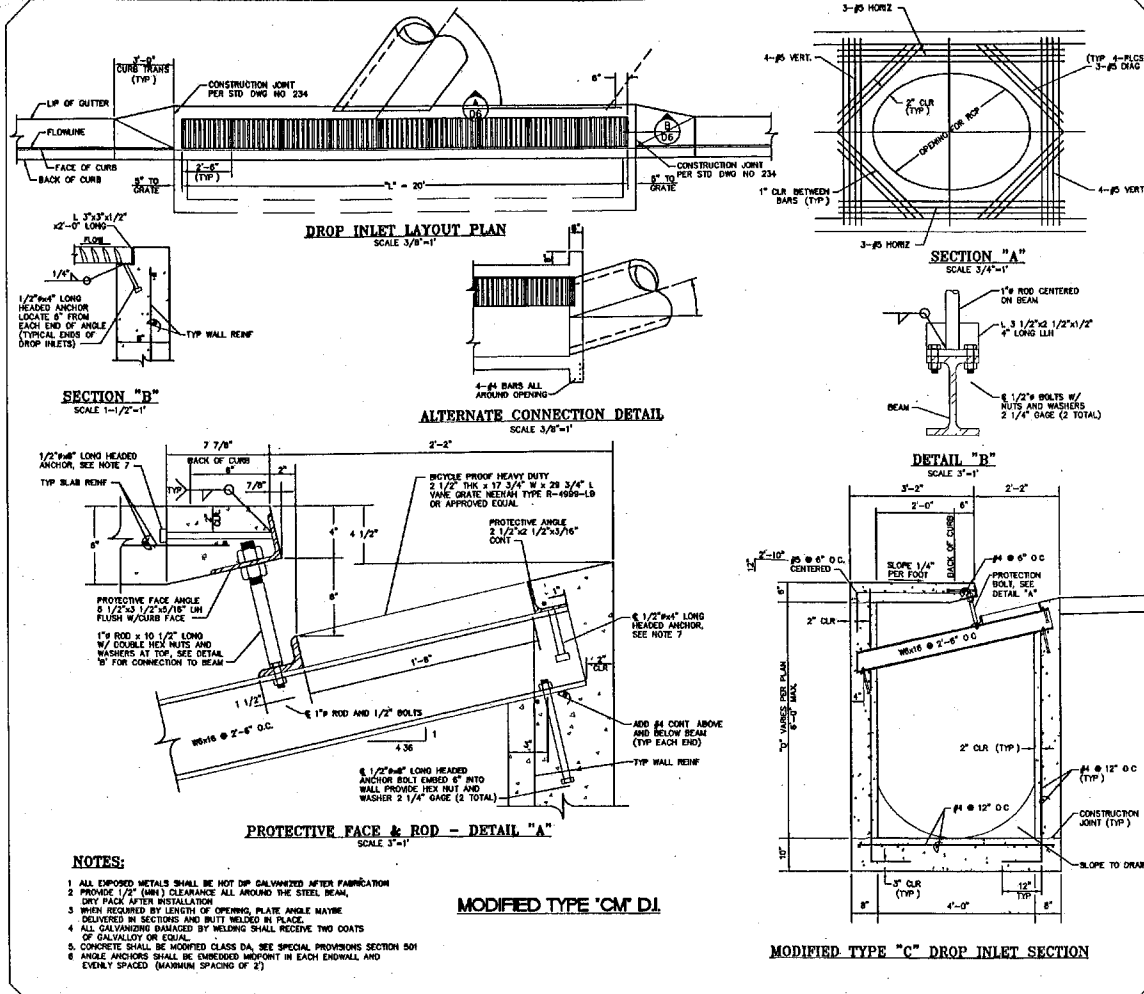


30 RCB CULVERT TYPE II HEADWALLS
D-4 N.T.S.



31 PRECAST CONCRETE BOX CULVERT
D-4 N.T.S.

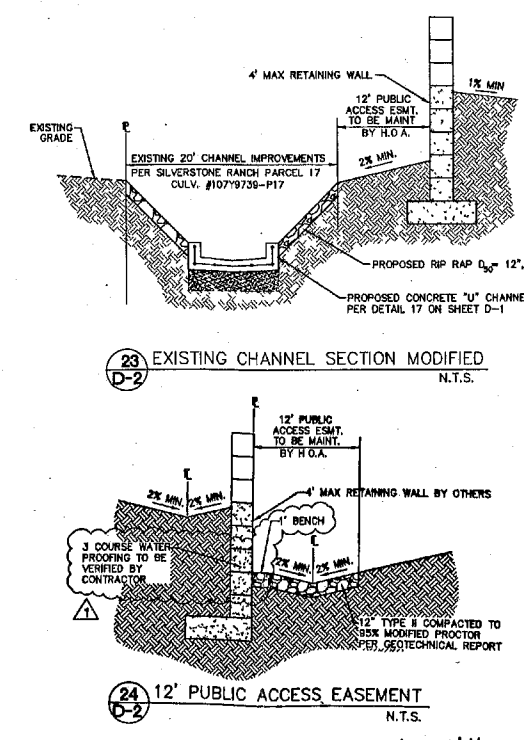




STORM DRAIN DATA

NO.	DESCRIPTION	STA.	FF	PAD
1	48" MANHOLE	17490.13	41.7	41.0
2	48" MANHOLE	17490.13	41.7	41.0
3	48" MANHOLE	17490.13	41.7	41.0
4	48" MANHOLE	17490.13	41.7	41.0
5	48" MANHOLE	17490.13	41.7	41.0
6	48" MANHOLE	17490.13	41.7	41.0
7	48" MANHOLE	17490.13	41.7	41.0
8	48" MANHOLE	17490.13	41.7	41.0
9	48" MANHOLE	17490.13	41.7	41.0
10	48" MANHOLE	17490.13	41.7	41.0
11	48" MANHOLE	17490.13	41.7	41.0
12	48" MANHOLE	17490.13	41.7	41.0
13	48" MANHOLE	17490.13	41.7	41.0
14	48" MANHOLE	17490.13	41.7	41.0
15	48" MANHOLE	17490.13	41.7	41.0
16	48" MANHOLE	17490.13	41.7	41.0
17	48" MANHOLE	17490.13	41.7	41.0
18	48" MANHOLE	17490.13	41.7	41.0
19	48" MANHOLE	17490.13	41.7	41.0
20	48" MANHOLE	17490.13	41.7	41.0
21	48" MANHOLE	17490.13	41.7	41.0
22	48" MANHOLE	17490.13	41.7	41.0
23	48" MANHOLE	17490.13	41.7	41.0
24	48" MANHOLE	17490.13	41.7	41.0
25	48" MANHOLE	17490.13	41.7	41.0
26	48" MANHOLE	17490.13	41.7	41.0
27	48" MANHOLE	17490.13	41.7	41.0
28	48" MANHOLE	17490.13	41.7	41.0
29	48" MANHOLE	17490.13	41.7	41.0
30	48" MANHOLE	17490.13	41.7	41.0
31	48" MANHOLE	17490.13	41.7	41.0
32	48" MANHOLE	17490.13	41.7	41.0
33	48" MANHOLE	17490.13	41.7	41.0
34	48" MANHOLE	17490.13	41.7	41.0
35	48" MANHOLE	17490.13	41.7	41.0
36	48" MANHOLE	17490.13	41.7	41.0
37	48" MANHOLE	17490.13	41.7	41.0
38	48" MANHOLE	17490.13	41.7	41.0
39	48" MANHOLE	17490.13	41.7	41.0
40	48" MANHOLE	17490.13	41.7	41.0
41	48" MANHOLE	17490.13	41.7	41.0
42	48" MANHOLE	17490.13	41.7	41.0
43	48" MANHOLE	17490.13	41.7	41.0
44	48" MANHOLE	17490.13	41.7	41.0
45	48" MANHOLE	17490.13	41.7	41.0
46	48" MANHOLE	17490.13	41.7	41.0
47	48" MANHOLE	17490.13	41.7	41.0
48	48" MANHOLE	17490.13	41.7	41.0
49	48" MANHOLE	17490.13	41.7	41.0
50	48" MANHOLE	17490.13	41.7	41.0
51	48" MANHOLE	17490.13	41.7	41.0
52	48" MANHOLE	17490.13	41.7	41.0
53	48" MANHOLE	17490.13	41.7	41.0
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55	48" MANHOLE	17490.13	41.7	41.0
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58	48" MANHOLE	17490.13	41.7	41.0
59	48" MANHOLE	17490.13	41.7	41.0
60	48" MANHOLE	17490.13	41.7	41.0
61	48" MANHOLE	17490.13	41.7	41.0
62	48" MANHOLE	17490.13	41.7	41.0
63	48" MANHOLE	17490.13	41.7	41.0
64	48" MANHOLE	17490.13	41.7	41.0
65	48" MANHOLE	17490.13	41.7	41.0
66	48" MANHOLE	17490.13	41.7	41.0
67	48" MANHOLE	17490.13	41.7	41.0
68	48" MANHOLE	17490.13	41.7	41.0
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70	48" MANHOLE	17490.13	41.7	41.0
71	48" MANHOLE	17490.13	41.7	41.0
72	48" MANHOLE	17490.13	41.7	41.0
73	48" MANHOLE	17490.13	41.7	41.0
74	48" MANHOLE	17490.13	41.7	41.0
75	48" MANHOLE	17490.13	41.7	41.0
76	48" MANHOLE	17490.13	41.7	41.0
77	48" MANHOLE	17490.13	41.7	41.0
78	48" MANHOLE	17490.13	41.7	41.0
79	48" MANHOLE	17490.13	41.7	41.0
80	48" MANHOLE	17490.13	41.7	41.0
81	48" MANHOLE	17490.13	41.7	41.0
82	48" MANHOLE	17490.13	41.7	41.0
83	48" MANHOLE	17490.13	41.7	41.0
84	48" MANHOLE	17490.13	41.7	41.0
85	48" MANHOLE	17490.13	41.7	41.0
86	48" MANHOLE	17490.13	41.7	41.0
87	48" MANHOLE	17490.13	41.7	41.0
88	48" MANHOLE	17490.13	41.7	41.0
89	48" MANHOLE	17490.13	41.7	41.0
90	48" MANHOLE	17490.13	41.7	41.0
91	48" MANHOLE	17490.13	41.7	41.0
92	48" MANHOLE	17490.13	41.7	41.0
93	48" MANHOLE	17490.13	41.7	41.0
94	48" MANHOLE	17490.13	41.7	41.0
95	48" MANHOLE	17490.13	41.7	41.0
96	48" MANHOLE	17490.13	41.7	41.0
97	48" MANHOLE	17490.13	41.7	41.0
98	48" MANHOLE	17490.13	41.7	41.0
99	48" MANHOLE	17490.13	41.7	41.0
100	48" MANHOLE	17490.13	41.7	41.0

- 35' PUBLIC UTILITY EASEMENT WROUGHT IRON FENCE DETAIL PER 421 B**
N.T.S.
- CONSTRUCTION NOTES:**
1. SAWCUT AND MATCH EXISTING CURB AND OUTTER, SIDEWALK, AND AC PAVEMENT.
 2. CONSTRUCT 2" AC PAVEMENT OVER 10" TYPE I AGGREGATE BASE.
 3. CONSTRUCT 3" AC PAVEMENT OVER 10" TYPE I AGGREGATE BASE.
 4. CONSTRUCT 1" CURB PER OCAUSD #216.
 5. CONSTRUCT 10" TRANSITION FROM 1" CURB TO ROLL CURB PER DETAIL 12, SHEET D-1.
 6. CONSTRUCT 3" TRANSITION FROM 1" CURB TO DEPRESSION CURB PER DETAIL 12, SHEET D-1.
 7. CONSTRUCT DEPRESSION CURB PER DETAIL 12, SHEET D-1.
 8. CONSTRUCT 8" CONCRETE VALLEY GUTTER PER OCAUSD #228.
 9. CONSTRUCT 30" ROLL CURB PER OCAUSD #217A.
 10. CONSTRUCT 6" CONCRETE "U" CHANNEL PER DETAIL 10, SHEET D-1.
 11. CONSTRUCT 5" WIDE LANDSCAPE. SEE DETAILS 1 & 2, SHEET D-1.
 12. N/A.
 13. INSTALL RIP RAP D₅₀ = 12" T = 24" OVER 12" TYPE I BEDDING.
 14. INSTALL 3" RCP STORM DRAIN PER NDOT STANDARD DETAIL B 201.2 SEE ON SHEET D-3.
 15. CONSTRUCT MODIFIED TYPE "CM" DROP INLET PER DETAIL ON SHEET D-2.
 16. CONSTRUCT TYPE II HEADWALL W/ 0° SKEW PER NDOT STANDARD DETAIL B 201.4, B 201.4.1, B-201.1, AND B-201.6 SEE ON SHEETS D-3 AND D-4.
 17. INSTALL 18" RCP CLASS II STORM DRAIN PIPE AND CONNECT TO 6" RCP STORM DRAIN PER DETAIL 30, SHEET D-4.
 18. CONSTRUCT 8-INCH WIDE MINIMUM RETAINING WALL 4 SOLID GROUTED COURSES ABOVE FINISH GRADE.
 19. INSTALL 6" RCP STORM DRAIN PER NDOT STANDARD DETAIL B 201.2, SEE ON SHEET D-3.
 20. INSTALL 12" RCP PER OCAUSD #216.
 21. INSTALL 48" STORM DRAIN MANHOLE PER DETAIL 20 ON SHEET D-2.
 22. INSTALL 5" "U" CHANNEL PER DETAIL 17, SHEET D-1.
 23. CONSTRUCT CONCRETE DRAINAGE FLUME TRANSITION STRUCTURE TO BE 5' WIDE @ MOUTH & TRANSITION INTO 3' "U" CHANNEL PER DETAIL 19 & 21 ON SHEET D-2.
 24. INSTALL SHALLOW 48" STORM DRAIN MANHOLE PER DETAIL 20 & DETAIL 22 ON SHEET D-2 PER DCSWCS #50-10.
 25. INSTALL 30" WIDE WROUGHT IRON FENCE PER DETAIL 18 ON SHEET D-1.
 26. INSTALL 16" WIDE RESIDENTIAL DRIVEWAY PER OCAUSD #223.
 27. INSTALL 30" WIDE WROUGHT IRON FENCE PER DETAIL 21 ON SHEET D-2.
 28. INSTALL 14.5" WROUGHT IRON MAINTENANCE GATE FOR DRAINAGE CHANNEL ACCESS PER CLY DETAIL 26, SHEET D-3.
 29. INSTALL 3' CUT-OFF WALL.
 30. CONSTRUCT SIDEWALK PER USD #234.
 31. CONSTRUCT SIDEWALK RAMP PER USD #235 CASE 1 WITH TRUNCATED DOMES BY ANCHOR TILE OR EQUIVALENT, "A"-8" AND "B"-8" UNLESS OTHERWISE SPECIFIED.



W R G
DESIGN
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FAX 702.960.9500
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DETAILS AND SECTIONS
CALGARY CROSSING
BARTON K. MAYBIE
CITY OF LAS VEGAS, NEVADA

NO.	DESCRIPTION	DATE	BY
1	REVISION	05/09/05	MB

PROJECT # 1306510600
DATE



COKE ST

MAGGIE AVE

CONOLIGHT LN

GRIZZLY ST

CANNAMON BEAR AVE

PANDA BEAR ST

CORBY CROSSING ST

CALGARY CROSSING

BART ST

LAKE LOUISE AVE

BUFFALO DR

SANDY ISLAND ST

ECHO GRANDE DR

DORAL PARK CT

IRON MOUNTAIN RD

LEGAL DESCRIPTION

THE NE 1/4, SW 1/4, NE 1/4, SE 1/4 AND THE NW 1/4 LESS THE EAST TEN (10') FEET OF THE SE 1/4, NE 1/4, SE 1/4 OF SECTION 26, RANGE 60 EAST, M.D.B. & M. LAS VEGAS, NEVADA

BENCHMARK

CITY OF LAS VEGAS BENCHMARK NO. 5LV90 26C4 ELEVATION = 705.767 MT./2315.50 FT. (NAVD 88)

CITY OF LAS VEGAS RIVET AND ROUND PLATE IN TRANSFORMER PAD, ON THE SOUTH SIDE OF TROPICAL PARKWAY AND 170' +/- WEST OF TORREY PINES DRIVE.

BASIS OF BEARINGS

SOUTH 83°42'59" EAST - BEING THE NORTH LINE OF THE SOUTH HALF (S 1/2) OF THE NORTHEAST QUARTER (NE 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 26, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CLARK COUNTY, AS SHOWN BY MAP THEREOF IN FILE 76 OF PARCEL MAPS, PAGE 22, OFFICIAL RECORDS.

X-RESIDENCE FF=2308.30 X-RESIDENCE FF=2307.70 X-RESIDENCE FF=2307.20

16" WIDE X 8" HIGH OPENING IN SCREEN WALL 2" EACH SIDE OF EACH LOT LINE SIX OPENINGS REQD.

DEPRESS CURB TO FLOWLINE 2" PRIVATE DRAINAGE EASEMENT TO BE RECORDED ON FINAL MAP

LOT 3 11,940.55 S.F. FF=2308.30 PAD=2307.4

LOT 2 11,004.80 S.F. FF=2307.15 PAD=2306.7

LOT 1 11,186.54 S.F. FF=2307.15 PAD=2306.2

LOT 4 17,117.19 S.F. FF=2308.30 PAD=2308.8

LOT 5 16,949.11 S.F. FF=2308.30 PAD=2306.8

LOT 6 12,135.37 S.F. FF=2307.15 PAD=2305.3

LOT 7 12,070.38 S.F. FF=2307.15 PAD=2304.9

LOT 8 11,003.75 S.F. FF=2307.15 PAD=2306.1

LOT 9 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 10 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 11 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 12 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 13 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 14 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 15 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 16 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 17 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 18 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 19 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 20 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 21 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 22 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 23 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 24 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 25 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 26 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 27 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 28 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 29 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 30 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 31 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 32 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 33 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 34 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 35 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 36 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 37 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 38 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 39 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 40 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 41 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 42 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 43 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 44 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 45 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 46 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 47 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 48 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 49 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 50 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 51 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 52 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 53 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 54 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 55 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 56 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 57 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 58 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 59 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 60 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 61 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 62 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 63 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 64 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 65 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 66 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 67 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 68 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 69 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 70 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 71 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 72 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 73 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 74 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 75 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 76 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 77 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 78 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 79 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 80 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 81 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 82 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 83 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 84 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 85 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 86 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 87 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 88 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 89 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 90 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 91 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 92 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 93 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 94 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 95 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 96 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 97 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 98 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 99 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 100 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 101 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 102 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 103 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 104 11,004.25 S.F. FF=2307.15 PAD=2306.4

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LOT 108 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 109 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 110 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 111 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 112 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 113 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 114 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 115 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 116 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 117 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 118 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 119 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 120 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 121 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 122 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 123 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 124 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 125 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 126 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 127 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 128 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 129 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 130 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 131 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 132 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 133 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 134 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 135 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 136 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 137 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 138 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 139 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 140 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 141 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 142 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 143 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 144 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 145 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 146 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 147 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 148 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 149 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 150 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 151 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 152 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 153 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 154 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 155 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 156 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 157 11,004.25 S.F. FF=2307.15 PAD=2306.4

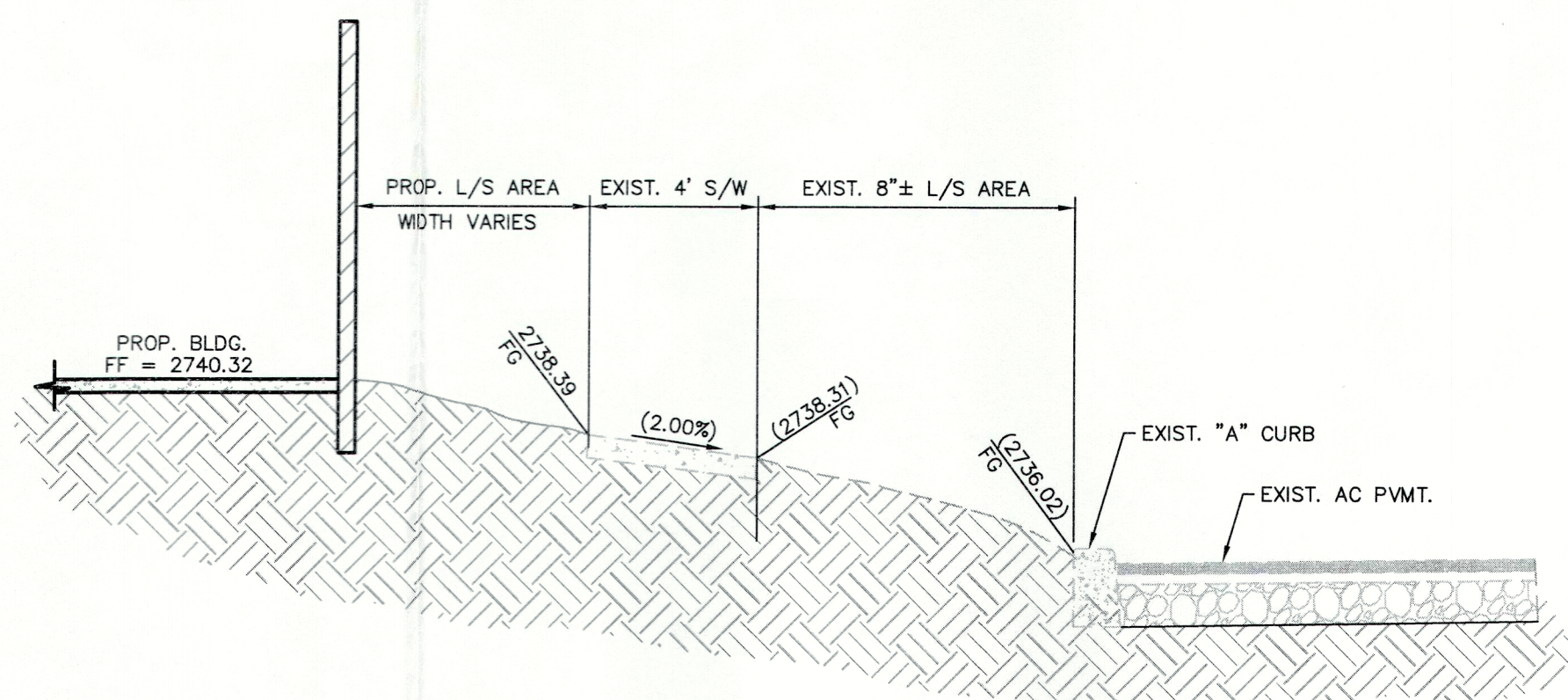
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LOT 159 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 160 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 161 11,004.25 S.F. FF=2307.15 PAD=2306.4

LOT 162



ALTA DR.

PROJECT SITE

RAMPART RD.

OVERVIEW DR.

CHARLESTAN BLVD.

VICINITY MAP
N.T.S.

30 0 15 30 60 120

(IN FEET)

1 inch = 30 ft.

RIGHT-OF-WAY
PROPERTY LINE

STREET CENTER LINE

EXISTING BUILDING

PROPOSED BUILDING

EXISTING CURB & GUTTER

PROPOSED CURB & GUTTER

EXISTING EDGE OF
A.C. PAVEMENT

PROPOSED CMU WALL

EXISTING 1' CONTOUR (MUR)

EXISTING 5' CONTOUR (MNR)

PROPOSED AC PAVEMENT

SECTION / DETAIL SYMBOL

GRADE BREAK

SLOPE & DIRECTION OF SLOPE

PROPOSED ELEVATION

EXISTING ELEVATION

SAWCUT LINE

LOT INFORMATION

PROPOSED CHAIN LINK FENCE

2739 PROPOSED CONTOUR

This grading plan is a part of drainage study # 4726 which was received on 4/15/15 and App'd on 4/15/15. Page 1 of 1

CLARK COUNTY VERTICAL CONTROL V.2003 POINT "3C21 31NNE6 2003", BEING A RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB, SOUTH SIDE OF CACTUS AVENUE OPPOSITE THE HINSON STREET ALIGNMENT.

ELEVATION: 2335.23 (US SURVEY FEET)
711.779 (METERS)

BASIS OF BEARINGS

NORTH 87°39'17" EAST, BEING THE BEARING OF THE CENTERLINE OF CACTUS AVENUE AND THE NORTH LINE OF THE NORTHWEST QUARTER (NW 1/4) OF THE NORTHWEST QUARTER NW 1/4) OF SECTION 32, TOWNSHIP 22 SOUTH, RANGE 61 EAST M.D.M., CLARK COUNTY, NEVADA, AS SHOWN IN BOOK 113 OF PLATS, AT PAGE 34, OFFICIAL RECORDS OF CLARK COUNTY, NEVADA.

Call before you Dig
Avoid cutting, underground utility lines. It's costly.

Call
811

or
1-800-455-7600
or
CLARK COUNTY OFFICE
1-702-455-7544

AVOID HITTING UNDERGROUND TRAFFIC SIGNAL SYSTEMS AND STREET LIGHT SYSTEM CONDUITS TO COSTLY CALL BEFORE YOU DIG

Call before you UnderGround

1-702-455-7611
CLARK COUNTY TRAFFIC OPERATIONS

1-702-432-5300
LAS VEGAS AREA COMMUNITY TRAFFIC SYSTEM

AVOID OVERHEAD POWER CONTACT. IT'S COSTLY.

Call before you OVERHEAD

1-702-227-2929
NVIDIA POWER EMERGENT QUALITY NETWORKS

[illegible]

ESTIMATED QUANTITIES

PUBLIC

3" ASPHALT PAVING	2382 SY
TYPE II AGGREGATE BASE	538 CY
1" TYPE CURB AND GUTTER	552 LF
4" SIDEWALK	332 SF
6" CROSS GUTTER	1024 SF
3" VALLEY GUTTER	20 LF
6" RCB STORM DRAIN	301 LF
6" RCB STORM DRAIN	49 LF
24" RCB STORM DRAIN	88 LF
60" STORM DRAIN MANHOLE	2 EA
MODIFIED TYPE "CM" DROP INLET	5 EA

PUBLIC DRAINAGE EASEMENTS

NOOT TYPE II HEADWALL	1 EA
CONCRETE DRAINAGE FLUMES	92 CY
RIP RAP PAD D ₅₀ = 12" T-24"	15340 SF
TYPE II AGGREGATE BASE	648 CY
1" CHANNEL	816 LF
3" CUT-OUT WALL	6 EA
FLOOD/RETAINING WALL	720 LF

STORM DRAIN DATA

- 48" MANHOLE STA 17498.13
RIM=2438.0
INV IN=2433.98
INV OUT=2432.78
- 48" MANHOLE STA 21400.09
RIM=2435.3
INV THRU=2430.58
INV IN=2431.76
- MODIFIED TYPE "CM" DROP INLET STA 17498.13
L = 20' GRATE = 20'
TC= 2438.12
INV OUT = 2434.17
- MODIFIED TYPE "CM" DROP INLET STA 18487.59
L = 20' GRATE = 20'
TC= 2438.70
INV OUT = 2433.94
- MODIFIED TYPE "CM" DROP INLET STA 19487.59
L = 20' GRATE = 20'
TC= 2438.67
INV OUT = 2432.77
- MODIFIED TYPE "CM" DROP INLET STA 20487.59
L = 20' GRATE = 20'
TC= 2438.67
INV OUT = 2432.55
- MODIFIED TYPE "CM" DROP INLET CALGARY CROSSING STA 11+19.05
L = 20' GRATE = 20'
TC= 2438.78
INV OUT = 2432.65

FLOOD ZONE DESCRIPTION

THIS SITE IS LOCATED IN ZONE "X". AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN, PER THE FLOOD INSURANCE RATE MAP COMMUNITY PANEL 3200031734 E. CLARK COUNTY, NEVADA DATED SEPTEMBER 27, 2002.

FLOOD DESIGNATION PROVIDED BY FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA).

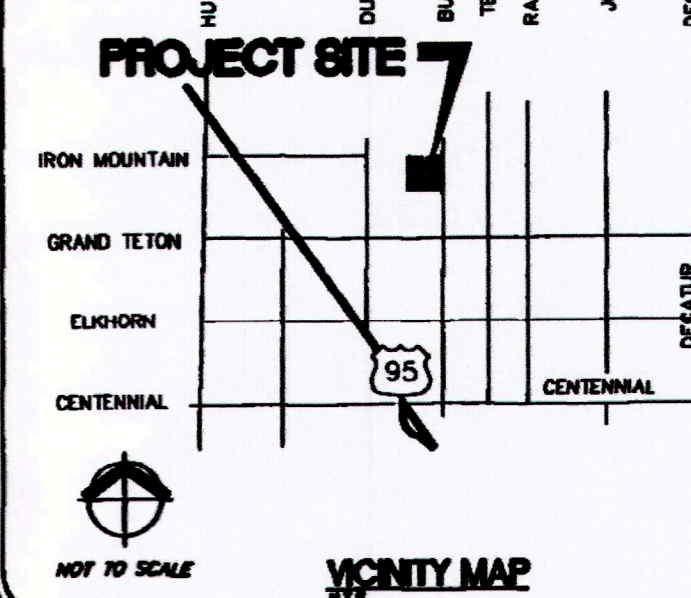
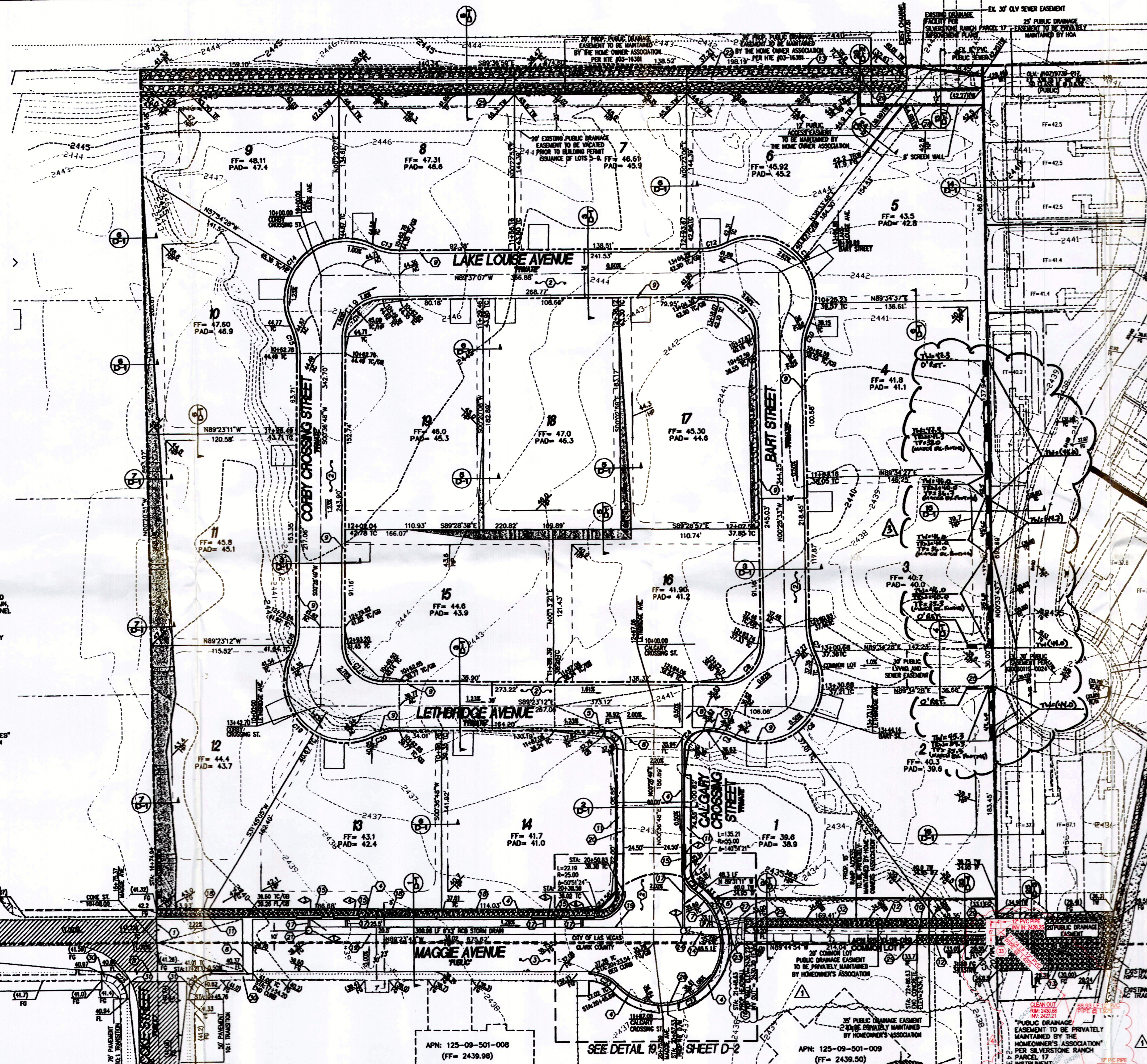
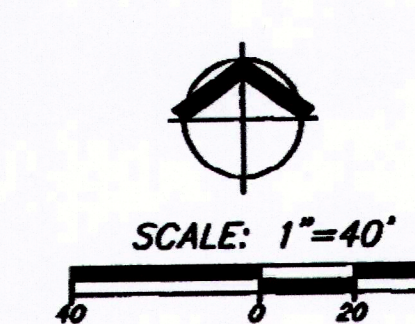
BASE OF BEARING

NORTH 89°44'54" WEST, BEING THE NORTH LINE OF THE NORTHEAST QUARTER (NE 1/4) OF SECTION 09, TOWNSHIP 19 SOUTH, RANGE 60 EAST, AS SHOWN BY MAP THEREON ON FILE IN FILE 73 OF SURVEYS, PAGE 14, OFFICIAL RECORDS OF CLARK COUNTY, NEVADA.

BENCH MARK

CLARK COUNTY VERTICAL CONTROL STATION "11590 SHES" BEING A B.M. BRASS CAP AT BUFFALO DRIVE AND IRON MOUNTAIN ROAD

ELEVATION:
FEET = 2443.33' (NAVD88)
METERS = 744.729 M (NAVD88)



LEGEND

	PROPERTY LINE / RIGHT-OF-WAY
	PROPOSED "L" CURB AND GUTTER
	EXISTING CURB AND GUTTER
	EX. WROUGHT IRON FENCE
	EX. RETAINING WALL
	PROPOSED RETAINING WALL
	EDGE OF PAVEMENT
	CROSS GUTTER
	PROPOSED SIGHT VISIBILITY ZONE NO OBSTRUCTIONS GREATER THAN 30" IN HEIGHT. FOR MORE INFORMATION SEE C.E.A.S.D. DIST. NO. 201.2
	EXISTING A.C. PAVEMENT AREA
	FUTURE ELEVATION
	PROPOSED ELEVATION
	EXISTING ELEVATION
TC	TOP OF CURB
FG	FINISHED GRADE
TW	TOP OF WALL
FL	FLOW LINE
HP	HIGH POINT
GB	GRADE BREAK
FF	FINISH FLOOR
TB	TOP OF BERM
TF	TOP OF FOOTING
TW	TOP OF WALL
1	BLOCK NUMBER
SECTION OR DETAIL IDENTIFIER	
SHEET ON WHICH SECTION OR DETAIL IS SHOWN	

CONSTRUCTION NOTES

1. SAWCUT AND MATCH EXISTING CURB AND GUTTER, SIDEWALK, AND A.C. PAVEMENT.
2. CONSTRUCT 2" A.C. PAVEMENT OVER 10" TYPE II AGGREGATE BASE.
3. CONSTRUCT 3" A.C. PAVEMENT OVER 10" TYPE II AGGREGATE BASE.
4. CONSTRUCT 1" CURB PER CCAUSD #216.
5. CONSTRUCT 10" TRANSITION FROM 1" CURB TO ROLL CURB PER DETAIL 11, SHEET D-1.
6. CONSTRUCT 3" TRANSITION FROM 1" CURB TO DEPRESSION CURB PER DETAIL 12, SHEET D-1.
7. CONSTRUCT DEPRESSION CURB PER DETAIL 12, SHEET D-1.
8. CONSTRUCT 6" CONCRETE VALLEY GUTTER PER CCAUSD #228.
9. CONSTRUCT 30" ROLL CURB PER CCAUSD #217A.
10. CONSTRUCT 6" CONCRETE "U" CHANNEL PER DETAIL 10, SHEET D-1.
11. CONSTRUCT 5" WIDE LANDSCAPE. SEE DETAILS 1 & 2, SHEET D-1.
12. INSTALL RIP RAP D₅₀ = 6" T = 16" OVER 12" TYPE II BEDDING.
13. INSTALL RIP RAP D₅₀ = 12" T = 24" OVER 12" TYPE II BEDDING.
14. INSTALL 6" X 4" RCB STORM DRAIN PER NDOT STANDARD DETAIL B.201.2 SEE ON SHEET D-3.
15. CONSTRUCT MODIFIED TYPE "CM" DROP INLET PER DETAIL ON SHEET D-2.
16. CONSTRUCT TYPE II HEADWALL W/ 10" SLOPE PER NDOT STANDARD DETAIL B.201.4, B.201.4.1, B.201.4.2, AND B.201.4.3 SEE ON SHEETS D-3 AND D-4.
17. INSTALL 18" RCB CLASS II STORM DRAIN PIPE AND CONNECT TO 6" X 4" RCB STORM DRAIN PER DETAIL 32, SHEET D-4.
18. CONSTRUCT 8-INCH WIDE MINIMUM RETAINING WALL 4 SOLID GROUTED COURSES ABOVE FINISH GRADE.
19. INSTALL 6" X 4" RCB STORM DRAIN PER NDOT STANDARD DETAIL B.201.2, SEE ON SHEET D-3.
20. INSTALL "A" CURB PER CCAUSD #216.
21. INSTALL 48" STORM DRAIN MANHOLE PER DETAIL 20 ON SHEET D-2.
22. INSTALL 5" "U" CHANNEL PER DETAIL 17, SHEET D-1.
23. CONSTRUCT CONCRETE DRAINAGE FLUME TRANSITION STRUCTURE TO BE 12" WIDE @ MOUTH & TRANSITION INTO 3" "U" CHANNEL PER DETAIL 19 & 21 ON SHEET D-3.
24. INSTALL SHALLOW 48" STORM DRAIN MANHOLE PER DETAIL 20 & DETAIL 22 ON SHEET D-2 PER DCSMS #50-10.
25. INSTALL 30" WIDE WROUGHT IRON FENCE PER DETAIL 18 ON SHEET D-1.
26. INSTALL 16" WIDE RESIDENTIAL DRIVEWAY PER CCAUSD #223.
27. INSTALL 35" WIDE WROUGHT IRON FENCE PER DETAIL 21 ON SHEET D-2.
28. INSTALL 14.5" WROUGHT IRON MAINTENANCE GATE FOR DRAINAGE CHANNEL ACCESS PER CLV DETAIL 26, SHEET D-3.
29. INSTALL 3" CUT-OUT WALL.
30. CONSTRUCT SIDEWALK PER DETAIL #234.
31. CONSTRUCT SIDEWALK RAMP PER DETAIL #235 CASE 1 WITH TRUNCATED DOMES BY ARMOR TILE OR EQUIVALENT, "A" = 8" AND "B" = 8" UNLESS OTHERWISE SPECIFIED.
32. CONSTRUCT 6" THICK CONCRETE SIDE SLOPE EMBANKMENT WITH 4 REINFORCING STEEL BARS AT 12" ON CENTER EACH WAY.

NOTE: CONTRACTOR TO INSTALL CONCRETE APPROX. 10' DRAIN INTO 12" PVC PIPE. 6" CONCRETE OVER COCONOT TYPE II. SEE DETAIL A ON SHEET D-1.

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

10744958

I CERTIFY THAT THIS GRADING PLAN CONFORMS TO THE APPROVED TECHNICAL DRAINAGE STUDY FOR THIS SITE ON FILE AT THE CITY OF LAS VEGAS (053794).

8/29/12

Page 1 of 3

DATE

DESIGN

W R

NO

GRADING PLAN

CALGARY CROSSING

BARTON K. MAYBIE

CITY OF LAS VEGAS, NEVADA

PROJECT # 1306610600

DATE 8/29/12

DESIGNED BY 1306610600

CHECKED BY 1306610600

INSP. BY 1306610600

SHEET NUMBER 1 of 3

PROJECT # 1306610600

DATE 8/29/12

DESIGNED BY 1306610600

CHECKED BY 1306610600

INSP. BY 1306610600

SHEET NUMBER 1 of 3

Call before you dig

1-800-227-2600

1-702-593-6111

1-702-455-7511

1-702-232-5611

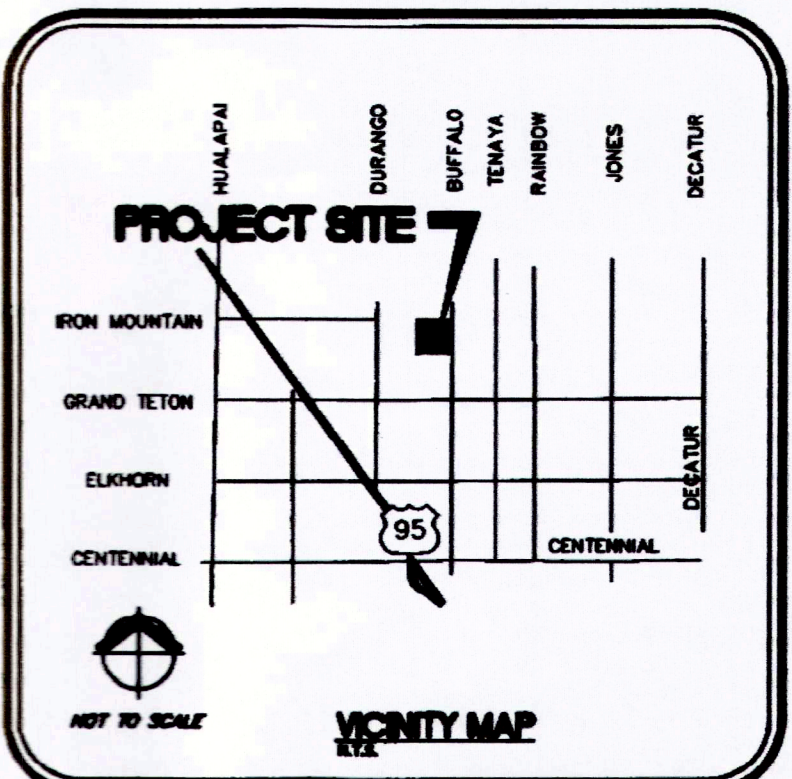
FLOYD LAMB STATE PARK
APN: 125-04-301-002
N.A.P.

FLOYD LAMB STATE PARK
APN: 125-04-301-002
N.A.P.

SCALE: 1"=40'

LEGEND

- PROPERTY LINE / RIGHT-OF-WAY
- "A" TYPE CURB
- EXISTING CURB AND GUTTER
- PROPOSED SANITARY SEWER LINE AND DIRECTION FLOW
- PROPOSED WATER
- 1 1/4" SL. CONDUIT WITH #6 PULL WIRE
- PROPOSED 48" SANITARY SEWER MANHOLE
- EX. SANITARY SEWER LINE AND EX. MANHOLE
- EX. WATER
- PROPOSED FIRE HYDRANT
- EX. SERVICE PEDISTAL
- PROPOSED 100 WATT STREET LIGHT
- EX. STREET LIGHT
- PROPOSED PULL BOX



WATER CONSTRUCTION NOTES

- REMOVE EXISTING 8" CAP & B.O. PER UDACS PLATE #4A, NOTE 1 & CONNECT TO EX. 8" WATER LINE
- REMOVE EXISTING 12" CAP & B.O. PER UDACS PLATE #4A, NOTE 1 & CONNECT TO EX. 12" WATER LINE
- INSTALL 12" X 8" REDUCER WITH THRUST BLOCKS PER UDACS PLATE NO. 5
- INSTALL 8" GATE VALVE WITH THRUST BLOCKS PER UDACS PLATE NO. 3 & 8
- INSTALL 8" X 12" TEE WITH THRUST BLOCKS PER UDACS PLATE NO. 5
- INSTALL CASING PER UDACS PLATE NO. 15 & 16
- INSTALL 8" 45° BEND WITH THRUST BLOCKS PER UDACS PLATE NO. 5
- INSTALL FIRE HYDRANT ASSEMBLY PER UDACS PLATE NO. 7 AND THE LOCATION SHALL BE DETERMINED BY CLARK CO. AREA STD. DWS. 516 / MUST MEET UDACS REQUIREMENTS
- 1" WATER METER W/ 1" SERVICE LATERAL PER UDACS STD. PLATE NO. 10
- INSTALL 8" 90° ELBOW WITH THRUST BLOCKS PER UDACS PLATE NO. 5
- INSTALL 8" PVC WATER TRENCH PER UDACS PLATE NO. 6
- INSTALL 8" DIP WATER LINE
- INSTALL 8" DIP WATER LINE
- INSTALL 8" 45° BEND WITH THRUST BLOCKS PER UDACS PLATE NO. 5
- INSTALL FIRE HYDRANT ASSEMBLY PER DEEP FIRE HYDRANT DETAIL ON SHEET P-3 AND THE LOCATION SHALL BE DETERMINED BY CLARK CO. AREA STD. DWS. 516 / MUST MEET UDACS REQUIREMENTS
- INSTALL 8" 120° BEND WITH THRUST BLOCKS PER UDACS PLATE NO. 5

SEWER CONSTRUCTION NOTES

- REMOVE 42 LF OF EX. 8" SEWER AND CONNECT TO EX. MANHOLE.
- INSTALL 8" PVC SEWER MAIN, SEWER TRENCH PER DCSWCS PLATE #80-108.
- INSTALL STANDARD 48" SEWER MANHOLE PER DCSWCS PLATE #80-1.
- INSTALL 8" SANITARY SEWER LATERAL (S=2.08 MIN.) PER DCSWCS PLATE #80-17.

SEWER CONTRIBUTIONS

AVERAGE FLOW: 0.004 MGD
PEAK FLOW: 0.016 MGD

UTILITY ABBREVIATIONS

LF LINEAR FEET
SSMFF SANITARY SEWER
SS FINISHED FLOOR
INV INVERT
PRV PRESSURE REDUCING VALVE

CONSTRUCTION NOTE

ALL EXISTING UTILITY STRUCTURES WITHIN CONSTRUCTION AREA SHALL BE ADJUSTED TO MATCH FINISH GRADE (I.e. W. SSM, MANHOLE BOX, FI, TEL. BOX, ETC.)

FIRE DEPARTMENT APPROVAL

APPROVAL BY THE FIRE DEPARTMENT HAVING JURISDICTION IS REQUIRED PRIOR TO OBTAINING FINAL APPROVAL FROM THE LVWD.

LAS VEGAS FIRE DEPARTMENT

FIRE FLOW IS 1500 GPM AT 20 PSI RESIDUAL PRESSURE.
BASED ON:
SQUARE FOOTAGE: 3,600 S.F. (MAX)
BUILDING HEIGHT: 24' (MAX)
NUMBER OF STORIES: 2 (MAX)
OCCUPANCY: SINGLE FAMILY

WATER MAIN JOINT DEFLECTION (PVC 4'-24")

PVC PIPE SHALL BE DEFLECTED AT THE JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE ONE (1) DEGREE PER JOINT WITH A MINIMUM RADIUS OF CURVATURE OF 1:150 FEET PER UDACS 2.08.01 AND 2.08.02. FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTINGS SHALL BE USED.

CONTROLLED LOW STRENGTH MATERIAL (CLSM)

PROTECT WATERLINES IN PLACE. WHEREVER A WATERLINE IS ABOVE A STORM DRAIN OR SEWER WHERE COMPACTION REQUIREMENTS UNDER A WATERLINE CANNOT BE MET, BACKFILL TRENCH WITH CLASS 1 / CLASS 8 CONTROLLED LOW STRENGTH MATERIAL (CLSM) TO THE SPRINGLINE OF THE WATERLINE. THIS REQUIREMENT IS FOR STRUCTURAL SUPPORT ONLY. ADDITIONAL HEALTH REGULATIONS MAY APPLY PER UDACS 2.18.

WATER MAIN JOINT DEFLECTION (PVC 4'-24")

PVC PIPE SHALL BE DEFLECTED AT THE JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE ONE (1) DEGREE PER JOINT WITH A MINIMUM RADIUS OF CURVATURE OF 1:150 FEET PER UDACS 2.08.01 AND 2.08.02. FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTINGS SHALL BE USED.

ALL LOTS

THIS PROPERTY MAY HAVE STATIC WATER PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THE INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE-REDUCING VALVES BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 PSI. PRIVATE IS THE DEVELOPER'S RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVWD FACILITIES. ESN.041 REVISED 06/01/04

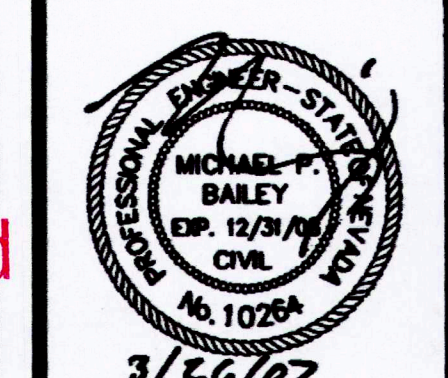
UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE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

APPROVAL FOR CONSTRUCTION

MICHAEL P. BAILEY, P.E. #10284
LAS VEGAS VALLEY WATER DISTRICT
PROJECT # 10280

UTILITY AND STREET LIGHT PLAN
CALGARY CROSSING
BARTON K. MAYBIE
CITY OF LAS VEGAS

DATE	DESCRIPTION
1/28/12	REVISED PLANS TO ADD NEW PVC PIPE IN THE DRAINAGE EASEMENT



PROJECT NO: 304384200
DATE: 10/18/08
DESIGNED BY: EJS
DRAWN BY: NUL
CHECKED BY: EJS
SHEET TITLE: UTILITY PLAN
SHEET NUMBER: UT
4 OF 13 SHEETS

NOTE:
INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING, PER MANUFACTURER INSTRUCTIONS.

* NOTE:
ALL INTERIOR STREETS PROPOSED HEREON ARE PRIVATE AND ARE PUBLIC UTILITY, C.V. SEWER AND PUBLIC DRAINAGE EASEMENTS TO BE PRIVATELY MAINTAINED BY HOMEOWNERS ASSOCIATION.

BASIS OF BEARING

NORTH 89°44'54" WEST, BEING THE NORTH LINE OF THE NORTHEAST QUARTER (NE 1/4) OF SECTION 08, TOWNSHIP 18 SOUTH, RANGE 80 EAST, AS SHOWN BY MAP THEREOF ON FILE IN FILE 73 OF SURVEYS, PAGE 14, OFFICIAL RECORDS OF CLARK COUNTY, NEVADA.

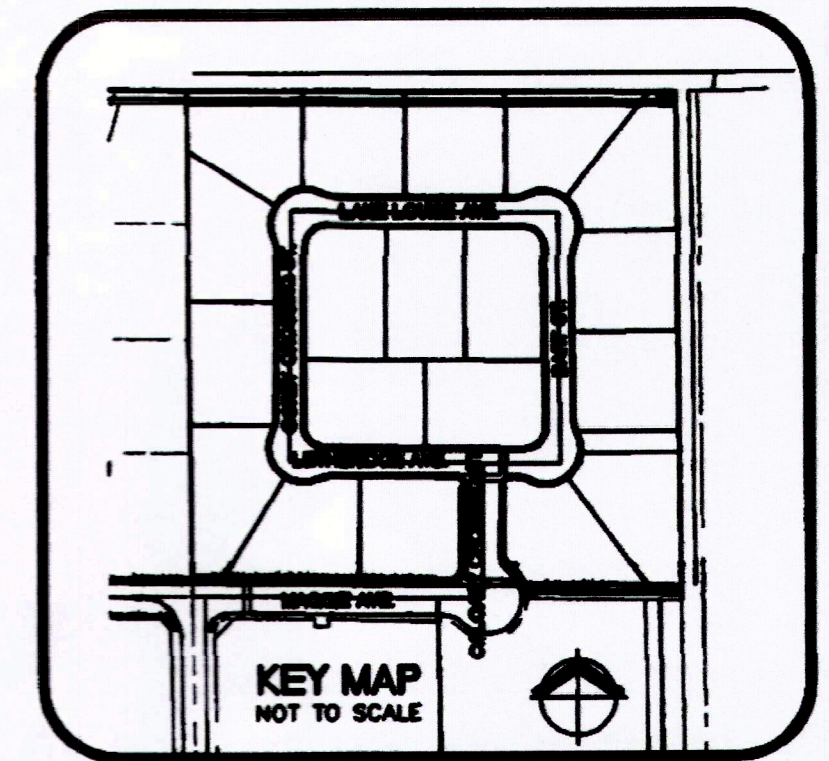
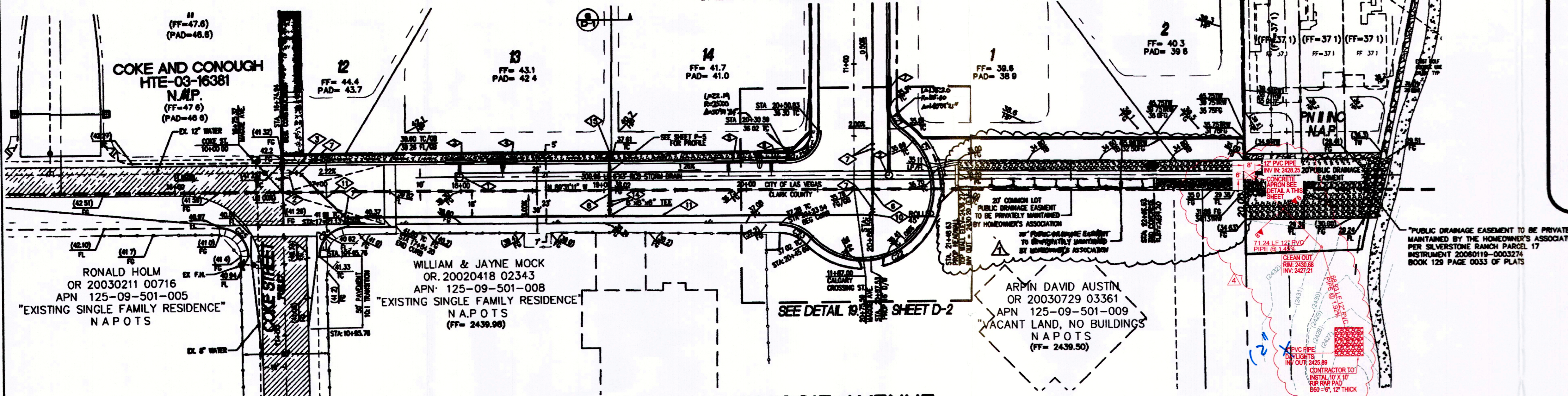
BENCH MARK

CLARK COUNTY VERTICAL CONTROL STATION "LVNO 018" BEING A BLM BRASS CAP AT BUFFALO DRIVE AND IRON MOUNTAIN ROAD
ELEVATION:
FEET = 2443.33' (NAVDS8)
METERS = 744.729 M (NAV08)

DISCLAIMER NOTE

Call before you dig
1-702-455-7511
1-800-227-2600
1-702-593-6111

107Y4958



W R G
DESIGN
301 W HORIZON RIDGE PKWY, HENDERSON, NEVADA 89052
Tel. 702.960.9300
Fax. 702.960.9305
PLANNERS • ENGINEERS • LANDSCAPE ARCHITECTS • SURVEYORS

WATER CONSTRUCTION NOTES

1. REMOVE EXISTING 8" CAP & B.O. PER UDACS PLATE #1A, NOTE 1 & CONNECT TO EX. 8" WATER LINE
2. REMOVE EXISTING 12" CAP & B.O. PER UDACS PLATE #1A, NOTE 1 & CONNECT TO EX. 12" WATER LINE
3. INSTALL 12" x 8" RISER WITH THRUST BLOCKS PER UDACS PLATE NO. 5
4. INSTALL 8" GATE VALVE WITH THRUST BLOCKS PER UDACS PLATE NO. 3 & 8
5. INSTALL 8" x 8" TEE WITH THRUST BLOCKS PER UDACS PLATE NO. 5
6. INSTALL CASING PER UDACS PLATE NO. 15 & 16
7. INSTALL 8" 45° BEND WITH THRUST BLOCKS PER UDACS PLATE NO. 5
8. INSTALL FIRE HYDRANT ASSEMBLY PER UDACS PLATE NO. 7 AND THE LOCATION SHALL BE DETERMINED BY CLARK CO. AREA STD. DWG. 016 / MUST MEET UDACS REQUIREMENTS
9. 1" WATER METER 1/2" 1" SERVICE LATERAL PER UDACS STD. PLATE NO. 10
10. INSTALL 8" 90° ELBOW WITH THRUST BLOCKS PER UDACS PLATE NO. 5
11. INSTALL 8" PVC WATER TRENCH PER UDACS PLATE NO. 6
12. INSTALL 8" DIP WATER LINE
13. INSTALL 8" 45° BEND WITH THRUST BLOCKS PER UDACS PLATE NO. 5
14. INSTALL FIRE HYDRANT ASSEMBLY PER DEEP FIRE HYDRANT DETAIL ON SHEET P-3 AND THE LOCATION SHALL BE DETERMINED BY CLARK CO. AREA STD. DWG. 016 / MUST MEET UDACS REQUIREMENTS
15. INSTALL 8" 110° BEND WITH THRUST BLOCKS PER UDACS PLATE NO. 5

SEWER CONSTRUCTION NOTES

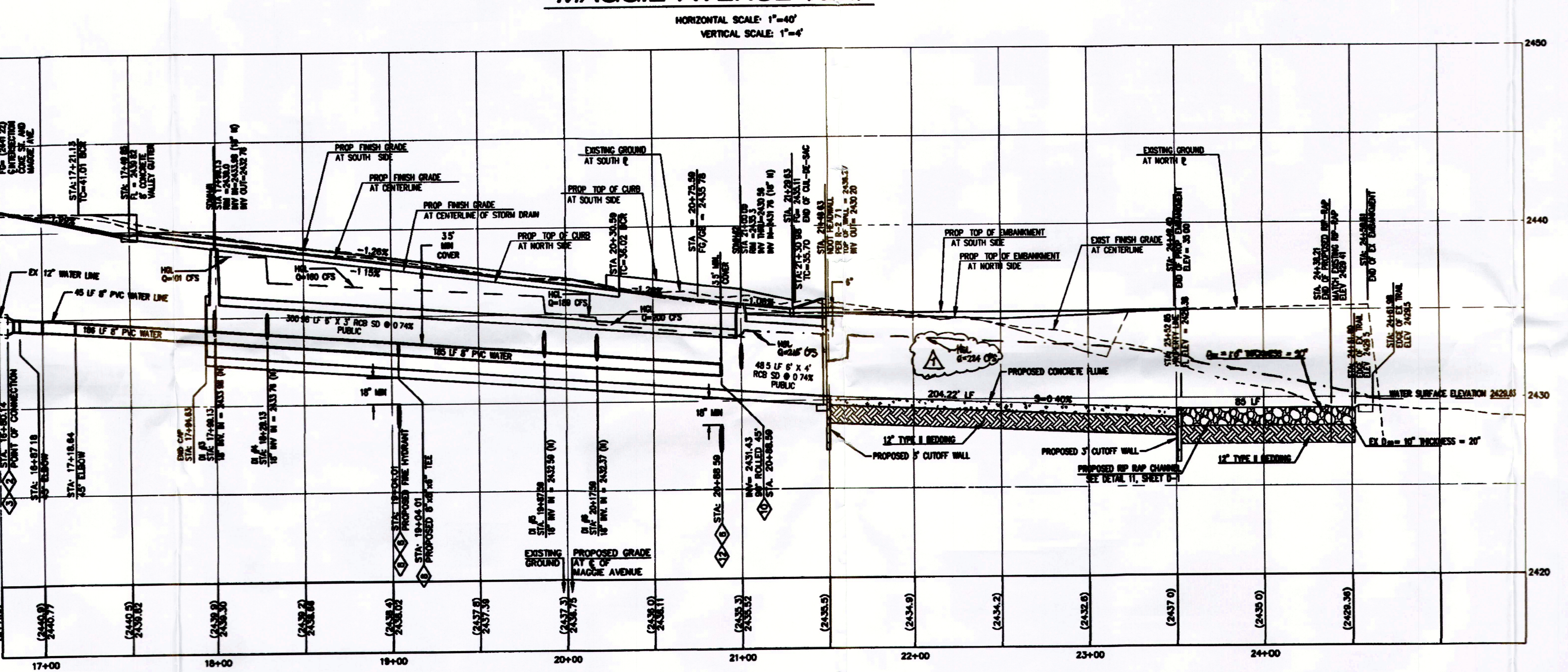
1. REMOVE EXISTING CAP AND CONNECT TO EX. 8" PVC SEWER
2. INSTALL 8" PVC SEWER MAIN, TRENCH PER DCSWS PLATE #10-100
3. INSTALL STANDARD 48" SEWER MANHOLE PER DCSWS PLATE #0-1
4. INSTALL 6" SANITARY SEWER LATERAL (S-2 OR MIN.) PER DCSWS PLATE #0-17

STORM DRAIN DATA

1. 48" MANHOLE STA 17+40.13
RM=2435.0
INV IN=2433.90
INV OUT=2432.76
2. 48" MANHOLE STA 19+40.09
RM=2435.3
INV IN=2433.06
INV OUT=2431.78
3. MODIFIED TYPE "CM" DROP INLET STA 17+40.13
L = 20', GRATE = 20'
TD= 2439.12
INV OUT = 2434.17
4. MODIFIED TYPE "CM" DROP INLET STA 19+29.13
L = 20', GRATE = 20'
TD= 2438.70
INV OUT = 2433.84
5. MODIFIED TYPE "CM" DROP INLET STA 19+47.59
L = 20', GRATE = 20'
TD= 2438.67
INV OUT = 2432.77
6. MODIFIED TYPE "CM" DROP INLET STA 20+17.59
L = 20', GRATE = 20'
TD= 2438.30
INV OUT = 2432.55
7. MODIFIED TYPE "CM" DROP INLET CALGARY CROSSING STA 11+19.05
L = 20', GRATE = 20'
TD= 2435.78
INV OUT = 2432.65

DISCLAIMER NOTE

1-702-455-7511
1-702-222-6811
1-800-227-2600
1-702-593-6111



CURVE	LENGTH	RADIUS
C1	49.29	50.00
C2	31.42	20.00
C21	18.20	18.50
C22	119.11	50.00
C23	24.38	30.00
C24	31.75	20.00
C25	31.08	20.00

LEGEND

- PROPERTY LINE / RIGHT-OF-WAY
- PROPOSED "L" CURB AND GUTTER
- EXISTING CURB AND GUTTER
- EX. BROUGHT IRON FENCE
- EX. RETAINING WALL
- PROPOSED RETAINING WALL
- EDGE OF PAVEMENT
- CROSS GUTTER
- PROPOSED SIGN VISIBILITY ZONE NO OBSTRUCTIONS GREATER THAN 3" IN HEIGHT FOR MORE INFORMATION SEE CCJASD DWG. 10-201
- EXISTING A.C. PAVEMENT AREA
- PROPOSED A.C. PAVEMENT AREA

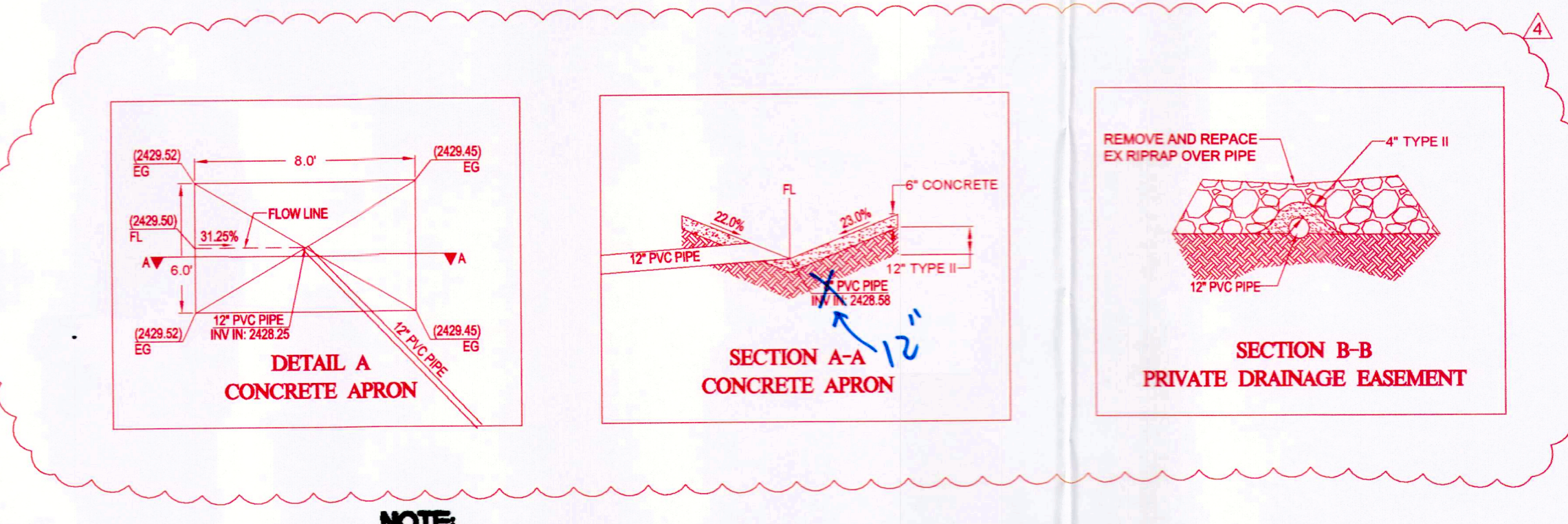
- FUTURE ELEVATION
- PROPOSED ELEVATION
- EXISTING ELEVATION
- TOP OF CURB
- FISHED GRADE
- TOP OF RETAINING WALL
- FLOW LINE
- HIGH POINT
- GRADE BREAK
- FRESH FLOOR
- BOTTOM OF WALL
- TOP OF WALL
- BLOCK NUMBER
- SECTION OR DETAIL IDENTIFIER
- SHEET ON WHICH SECTION OR DETAIL IS SHOWN

BASIS OF BEARING

NORTH 89°44'54" WEST, BEING THE NORTH LINE OF THE NORTHEAST QUARTER (NE 1/4) OF SECTION 08, TOWNSHIP 19 SOUTH, RANGE 60 EAST, AS SHOWN BY MAP THEREOF ON FILE IN FILE 73 OF SURVEYS, PAGE 14, OFFICIAL RECORDS OF CLARK COUNTY, NEVADA.

BENCH MARK

CLARK COUNTY VERTICAL CONTROL STATION "LIVD 0105" BEING A BLM BRASS CAP AT BUFFALO DRIVE AND IRON MOUNTAIN ROAD
ELEVATION: FEET = 2443.33' (NAD83) METERS = 744.728 M (NAD83)



NOTES

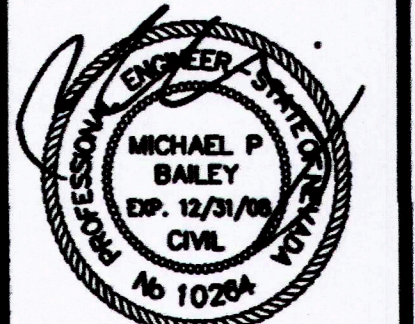
1. INSTALL WATERLINE IN STEEL CASING PER UDACS PLATES NO. 15 AND 16. MINIMUM 18-INCH CLEARANCE IS REQUIRED ABOVE THE TOP OF THE CASING FROM THE UPPER BENDS THROUGHOUT THE LOWERED SECTION OF PIPE. DUCTILE IRON PIPE WITH RESTRAINED JOINTS IS REQUIRED. IN ADDITION, THRUST BLOCKS ARE TO BE INSTALLED AT THE UPPER BENDS.
2. ANNUAL SPACE BETWEEN PIPE AND CASING SHALL BE FILLED WITH CLASS 1 CLSM.

APPROVAL FOR CONSTRUCTION

107Y4958
REVIS 06/01/04
REVIS 04/20/05

PLAN AND PROFILE- MAGGIE AVENUE AND STORM DRAIN
CALGARY CROSSING
BARTON K. MAYBIE
CITY OF LAS VEGAS

DATE	DESCRIPTION
3-4-06	REVISED CHANNEL LAYOUT & ELEVATIONS
8/28/12	REVISED PLANS TO ADD 12" PVC PIPE IN THE DRAINAGE EASEMENT



PROJECT # 130610000
DATE 10/4/2006
DRAWN I.J.K.
DESIGNED I.R.B.
CHECKED I.M.P.B.
SHEET TITLE
PLAN AND PROFILE
SHEET NUMBER

This grading plan is a part of drainage study #3796-3 which was received on 8/29/12 and App'd on 8/30/12. Page 3 of 3.