

DS #:

4600

APN:

137-01.101-001 S. More

PROJECT:

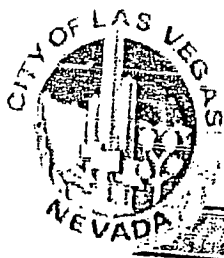
Peaceful Ridge Residential Development

SUBMITTAL:

2nd

SCANNED BY/DATE:

CHECKED BY/DATE:



CITY OF LAS VEGAS INTER-OFFICE MEMORANDUM			DATE: July 18, 2013
TO: Land Development Services Department of Public Works			FROM: Albert Sung, P.E. Flood Control Project Engineer Department of Public Works
SUBJECT: Drainage Study for: Peaceful Ridge Residential Development			COPIES TO: Taney Engineering
Cross Streets:	SEC of Puli Road & Lone Mountain Blvd.		THM Enterprises, LLC
File Number:	F:\Depot\DSMemos\DS4600B.doc		Bart Anderson, P.E., DevCo
Parcel Number:	137-01-101-001 & more		CCRFCD
Zoning Action:	TMP-48840; SDR-47610; VAR-47609; VAR-47607 & MOD-47606		CCPW
FEMA Flood Zone	YES	NO X	BLM
Proposed Storm Drain	YES X	NO	

HISTORY	DATE RECEIVED	DATE REVIEWED	COMMENTS	REVIEW FEES	FEES PAID Payment Trn #
1 st Submittal	5/9/2013	5/23/2013	Not Approved	\$400.00	319303: \$400
2 nd Submittal	7/4/2013	7/18/2013	See Comments Below	\$400.00	325317: \$400
			TOTAL FEES (LDDRS):	\$800.00	----

REMARKS:

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

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

1. Sites with a grade difference of 2 feet above or below existing grades are required to have approval from the *City of Las Vegas Planning and Development Department*. The engineer must submit copies of the grading plans and detail sheet with a letter justifying the grade difference to the *City Planning Department* (229-6301). The engineer must provide *Planning* approval with the next submittal.
2. The project proposes a 30'-Trail corridor along the *Puli* alignment within the *Bureau of Land Management* (BLM) jurisdiction adjacent to the west of the subject development. Offsite grading is also proposed within the BLM land. Obtain permission from BLM prior to the final approval of the subject drainage study.
3. The site is adjacent to or crosses an existing or proposed *Clark County Regional Flood Control District* (CCRFCD) master planned facility. Therefore, CCRFCD concurrence is required prior to final approval of the drainage study.
4. The site is also adjacent to the jurisdiction of the *County of Clark* to the west. Obtain concurrence from the *Clark County Public Works Department* (CCPW) prior to the final approval of the drainage study.

5. For development in two or more phases (as stated in the study), City of Las Vegas does not allow rough grading (such as rough pad and interior street grading) in the future phases in conjunction with the present phase improvements. Contour grading (to balance cut & fill) is the only grading activity allowed in the future phases. The other option is to leave the future phases in a natural and undisturbed condition. Provide interim grading plan for phased construction in the next submittal.

The proposed grading in the undeveloped portion of **Phase 1 Development** appears to have rough pad and interior street grading. The engineer/developer must obtain approval from **City Planning Department** prior to the final approval of the drainage study.

The following comments pertain to the Phase 1 Plans:

6. The rough graded onsite without any permanent cover such as paving, building construction or planting, is considered ongoing project under construction whereas a *Stormwater Pollution Prevention Plan* must be kept active under the NDEP Permit. In order to close out the permit, the developer must install permanent cover to the site to stabilize and control stormwater pollution to the satisfaction of NDEP.
7. The engineer/developer proposed to construct the drainage system to the full extent during the Phase 1 development. Address in the next submittal who is responsible to maintain the drainage facilities located in the undeveloped portion during interim condition? Is it the developer or the homeowners association of Phase 1?
8. **Sheet G2:**
- Shift SDMH #101 westerly to be completely within the subject development boundary.
9. **Sheet G3:**
- Provide erosion protection at the interim ends of *Black Glacier Ridge Ct.* and *Eagle Nest Peak St.*
10. **Sheet G4:**
- Provide erosion protection at the interim end of *Plum Button St.*
 - Provide interim swale for flood protection along the property walls of Lots 120 and 125 to 128.
 - Provide interim swale at the bottom of the scarp along the east property line.
11. **Sheet G6:**
- Provide interim swale at the bottom of the scarp along the east property line.
 - Provide erosion control at the cul-de-sac of *Stange Avenue*.
12. **Sheet G7:**
- Provide erosion control at the property line to minimize the debris impact to *Kersee Street*.
13. **Sheet G8:**
- Provide erosion control around the proposed drop inlets to reduce debris getting into the storm drain system.
 - Provide erosion control at the entrance of the adjacent existing public drainage easement.
 - It appears that a pond is created at the east end of the south east-west running rough graded street. This may cause health hazard. Review and revise accordingly.

The following comments pertain to the ultimate Plans:

14. Sheet G8:

- Show a proposed 3'-concrete flume in the public drainage easement between *Black Glacier Ridge Ct.* and *Eagle Nest Peak St.* as shown in *Detail Section KK/GD2*.

15. Sheet G11:

- Provide a cross gutter at *Restless Wind St.* to perpetuate a proposed low point on the west curb of the street at Sta. 15+99.91.

16. Sheet G12:

- Identify what kind of easement is between Lot 274 and Lot 275.

17. Sheet PP8:

- The storm drain is missing in *Marathon Bell Lane* in the profile.

18. Sheet PP30:

- Show the hydraulic grade line (HGL) of the proposed storm drain in *Lone Mountain Road* in the profile.

19. All drainage easements must be public drainage easements to be privately maintained and common lots to be labeled on the grading plans and to be dedicated as such in the final map.
20. The engineer must provide a table on the grading plans that shows a quantity estimate of all drainage improvements within Public Drainage Easements. All drainage improvements within Public Drainage Easements must be bonded and inspected.
21. Private streets must be public drainage easements. Provide a note on the grading plans "Note: All private streets are P.U.E., Public Sewer Easements and Public Drainage Easements to be privately maintained by the HOA".
22. Add a note in all pertinent sheets for the construction of all storm drain drop inlets per a newly adopted USDCCA Drawing No. 421 (*Stormwater Quality Management Stamp and Sign Detail*).

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

END OF REMARKS

ays

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

Oh-Sang Kwon

From: Rob Hansen [robh@taneycorp.com]
Sent: Monday, August 05, 2013 4:06 PM
To: Oh-Sang Kwon
Subject: FW: BLM Trail Grant for Peaceful Ridge

From: Albert Sung [<mailto:YSung@LasVegasNevada.GOV>]
Sent: Thursday, July 25, 2013 8:59 AM
To: Michael Cunningham
Cc: brad@touchstoneliving.com; Rob Hansen; Mary A. Wulff
Subject: RE: BLM Trail Grant for Peaceful Ridge

Mike,

Flood Control has no further comment for the BLM grant to move forward.

Albert Sung, P.E.
CLV Flood

From: Michael Cunningham [<mailto:MichaelC@taneycorp.com>]
Sent: Thursday, July 25, 2013 8:45 AM
To: Albert Sung
Subject: RE: BLM Trail Grant for Peaceful Ridge

Albert,

I thought I sent it yesterday, see attached.

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

From: Albert Sung [<mailto:YSung@LasVegasNevada.GOV>]
Sent: Thursday, July 25, 2013 8:43 AM
To: Michael Cunningham
Subject: RE: BLM Trail Grant for Peaceful Ridge

Michael, have you sent me a revised exhibit yet?

From: Michael Cunningham [<mailto:MichaelC@taneycorp.com>]
Sent: Thursday, July 25, 2013 8:18 AM
To: Albert Sung; Mary A. Wulff
Cc: Brad Boe (brad@TouchstoneLiving.com); Robert Cunningham; Rob Hansen
Subject: BLM Trail Grant for Peaceful Ridge

Albert/Mary,

Just wanted to follow up and make sure you didn't need any additional modifications to the exhibit and you are comfortable with the BLM Grant moving forward. We are hoping that this can make the August City Council Date. Please let me know if you have any questions.

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

01	C1	COVER SHEET
02	C2	GENERAL NOTES & QUANTITIES
03	G1	KEY MAP FOR GRADING SHEETS
04	G2	GRADING PLAN
05	G3	GRADING PLAN
06	G4	GRADING PLAN
07	G5	GRADING PLAN
08	G6	GRADING PLAN
09	G7	GRADING PLAN
10	G8	GRADING PLAN
11	G9	GRADING PLAN
12	G10	GRADING PLAN
13	G11	GRADING PLAN
14	G12	GRADING PLAN
15	GD1	GRADING DETAILS AND CROSS SECTIONS
16	GD2	GRADING DETAILS AND CROSS SECTIONS
17	GD3	GRADING DETAILS AND CROSS SECTIONS
18	GD4	GRADING DETAILS AND CROSS SECTIONS
19	PP1	PLAN & PROFILE KEY MAP
20	PP2	BLACK GLACIER RIDGE CT. PLAN & PROFILE STA: 10+00.00 - 16+50.00
21	PP3	BLACK GLACIER RIDGE CT. PLAN & PROFILE STA: 16+50.00 - 23+00.00
22	PP4	BLACK GLACIER RIDGE STA: 23+00.00 TO 30+00.00 PLAN & PROFILE
23	PP5	PEACEFUL DAWN STA: 11+00.00 TO 17+00.00 PLAN & PROFILE
24	PP6	PEACEFUL DAWN STA: 17+00.00 TO 20+00.00 & PLUM BUTTON - STA: 11+00.00 TO 13+50.00 PLAN AND PROFILE
25	PP7	PLUM BUTTON - STA: 13+50.00 TO 17+00.00 & MARATHON BELL - STA: 11+00.00 TO 12+50.00 PLAN AND PROFILE
26	PP8	MARATHON BELL STA: 12+50.00 TO 17+00.00 PLAN & PROFILE
27	PP9	PRINCETON BLUFF STA: 11+00.00 TO 15+00.00 PLAN AND PROFILE
28	PP10	STANGE NEB STA: 1+00.00 TO 3+00.00 & EAGLE NEST PEAK STA: 10+00.00 TO 13+00.00 PLAN AND PROFILE
29	PP11	EAGLE NEST PEAK STA: 13+00.00 TO 20+00.00 PLAN AND PROFILE
30	PP12	CLARK PEAK STA: 20+00.00 TO 23+00.00 & STA: 23+00.00 TO 27+00.00 PLAN AND PROFILE
31	PP13	KERSEE ST STA: 11+00.00 TO 18+00.00 PLAN AND PROFILE
32	PP14	HALF DOME ST STA: 11+00.00 TO 18+00.00 PLAN AND PROFILE
33	PP15	OXFORD FOX LN STA: 1+00.00 TO 17+00.00 PLAN AND PROFILE
34	PP16	FIREFLY WILLOW ST STA: 1+00.00 TO 16+00.00 PLAN AND PROFILE
35	PP17	SILVER HOLE SPRINGS ST STA: 11+00.00 TO 16+00.00 PLAN AND PROFILE
36	PP18	LAVENDER GLASS LN STA: 1+00.00 TO 17+00.00 PLAN AND PROFILE
37	PP19	JAMES CLARK CREEK STA: 11+00.00 TO 17+00.00 PLAN AND PROFILE
38	PP20	IRISH KILT ST STA: 1+00.00 TO 17+00.00 PLAN AND PROFILE
39	PP21	DIAMOND CASTLE LN STA: 11+00.00 TO 17+00.00 PLAN AND PROFILE
40	PP22	RESTLESS WIND ST STA: 11+00.00 TO 18+00.00 PLAN AND PROFILE
41	PP23	RESTLESS WIND ST STA: 18+00.00 TO 25+00.00 PLAN AND PROFILE
42	PP24	24" STORM DRAIN & 36" STORM DRAIN PLAN AND PROFILE
43	PP25	54" STORM DRAIN PLAN AND PROFILE
44	PP26	18" STORM DRAIN & 48" STORM DRAIN PLAN AND PROFILE
45	PP27	18" STORM DRAIN & 36" STORM DRAIN PLAN AND PROFILE
46	PP28	18" STORM DRAIN & 36" STORM DRAIN PLAN AND PROFILE
47	PP29	42" STORM DRAIN & 18" STORM DRAIN LATERAL PLAN AND PROFILE
48	PP30	LONE MOUNTAIN RD PLAN & PROFILE

CITY OF LAS VEGAS, NEVADA

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

[illegible]

A map showing the Project Site, which is a shaded area. The site is bounded by Lone Mountain Rd to the north, Cliff Shadows Blvd to the east, and Hickam Ave to the south. To the west of the site is a hatched area labeled 'RUIJ RD'. Other roads shown include Peaceful Dawn Ave, Stange Ave, and N 215. A north arrow is located to the right of the map, labeled 'NTS'.

APN #: 137-01-101-001, 009, 010, 011, 137-01-201-001, 002, 003, 011, 012, 137-01-301-001, & 002
BENCHMARK
PROJECT VERTICAL DATUM: NAVD88 CITY OF LAS VEGAS BENCHMARK 1V09-1W6 NAVD88 ELEV: 856.0090M 2536.55 FT RIVET AND PLATE IN TOP OF CURB AT NORTHEAST CORNER OF CLIFF SHADOWS AND DIEGOVILLE.
BASIS OF BEARINGS
SOUTH 87°47'07" WEST, BEING THE BEARING OF THE SOUTH LINE OF THE NORTHWEST QUARTER (NW1/4) OF THE SOUTHWEST QUARTER (SW1/4) OF SECTION 1, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF ON FILE IN BOOK 113, PAGE 87 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

AC	ASPHALTIC CONCRETE	GB	GRADE BREAK
BC	BACK OF CURB	GF	GRAVE FINISH FLOOR
BCR	BACK OF CURB RADIUS	HP	HIGH POINT
BE	BASE FLOOD ELEVATION	INV	INVERT
BFP	BACK FLOW PREVENTER	LF	LINEAR FEET
BFL	BUREAU OF LAND MANAGEMENT	LT	LEFT
BM	BENCHMARK	LWVWD	LAS VEGAS VALLEY WATER DISTRICT
BPMI	BLAISE RAISED PAVEMENT MARKER	MAX	MAXIMUM
BS	BEGIN VERTICAL CURVE	M	MANHOLE
BW	BOTTOM OF EXISTING WALL	MIN	MINIMUM
CC	CABLE TELEVISION	NO	NUMBER
CC	CLARK COUNTY	NTS	NOT TO SCALE
CL	CENTERLINE	OC	ON CENTER
CLSM	CONTROLLED LOW STRENGTH MATERIAL	OC	ON CENTER
CLV	CITY OF LAS VEGAS	PC	POINT OF CURVE
CLV	CORRUPTED CHEMICAL PIPE	PC	POINT OF CURVE
CNLU	CITY OF NORTH LAS VEGAS	PE	POLYETHYLENE
CNLU	CLEAN OUT, SEWER	PI	POINT OF INTERSECTION
CNLU	CITY OF HENDERSON	PROP	PROPERTY
OT	CUBIC YARD	PLT	PLATE
CSOWS	CITY OF WASHINGTON CONSTRUCTION STANDARDS OF WASTE WATER COLLECTION SYSTEMS	PO	POINT OF CONNECTION
DG	DESIGN GRADE	PP	POWER POLE
DG	DESIGN GRADE	PRC	POINT OF REVERSE CURVE
DIP	DROP IN ELEVATION	PRC	PROJECT
DIP	DUCTILE IRON PIPE	PRV	PRESSURE REDUCING VALVE
EG	EXISTING	PT	POINT OF TANGENCY
EG	EXISTING GRADE	PVC	POLYVINYL CHLORIDE
ELEC	ELECTRICAL	R	RADIUS
EG	EDGE OF PAVEMENT	RCB	REINFORCED CONCRETE BOX
EVC	END VERTICAL CURVE	RCP	REINFORCED CONCRETE PIPE
EX	EXISTING	R/W	RIGHT-OF-WAY
FF	FINISH FLOOR ELEVATION	RT	RIGHT
FG	FINISH GRADE	SD	STORM DRAIN
FG	FINISH FLOOR	SH	SHEET
FL	FLY LINE	STLT	STREET LIGHT
FL	FLY LINE	STLT	SOUTHERN CALIFORNIA WATER ALTHOUGH

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

CALL BEFORE YOU DIG: 1-800-227-2600
CALL BEFORE YOU OVERHEAD: 1-702-277-7929

THM ENTERPRISES LLC 10655 PARK RUN DRIVE SUITE #230 LAS VEGAS, NV 89144 (702) 853-6320 PHONE	TANEY ENGINEERING COMPANY 6030 S. JONES BLVD STE #100 LAS VEGAS, NV 89118 (702) 362-8844 PHONE (702) 362-5233 FAX
---	--

TANEY ENGINEERING COMPANY	EX EXISTING	CONCRETE CURVE	RTW RIGHT-OF-WAY
6030 S. JONES BLVD STE #100	FF FINISH FLOOR ELEVATION		R RIGHT
LAS VEGAS, NV 89118	FH FINISH GRADE		SD STORM DRAIN
(702) 362-8844 PHONE (702) 362-5233 FAX	FG FIRE HYDRANT		SHT SHEET
	FL FLOW LINE		STLT STREETLIGHT
	FT FEET.		SNWA SOUTHERN NEVADA WATER AUTHORITY

The map shows a residential area with the following streets and lot/unit numbers:

- Lone Mountain**: 53, 54, 55, 56, 57, 58, 59, 60, 61, 62
- Peaceful Dawn Ave**: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52
- Eagle Nest Peak St**: 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 85

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

APPROVED FOR CONSTRUCTION		
CITY OF LAS VEGAS FIRE DEPARTMENT		DATE
DAVID BOWERS, P.E., P.T.O.E. (P/E#18758) ACTING CITY ENGINEER - CITY OF LAS VEGAS APPROVAL OF THESE PLANS BY THE CITY ENGINEER IS LIMITED TO THOSE IMPROVEMENTS CONSTRUCTED IN THE DEDICATED RIGHT-OF-WAY, AND/OR DEDICATED EASEMENTS. THIS APPROVAL DOES NOT AUTHORIZE CONSTRUCTION OF ANY IMPROVEMENTS THAT DEVIATE FROM ADOPTED STANDARDS AND/OR SPECIFICATIONS EXCEPT THOSE SPECIFICALLY LISTED UNDER DEVIATIONS FROM STANDARDS. THE ENGINEER SHALL RESOLVE ANY DEVIATION OTHER THAN THOSE LISTED IN DEVIATIONS FROM STANDARD IN FAVOR OF THE UNIFORM STANDARD DRAWINGS AND SPECIFICATIONS, CLARK COUNTY AREA, NEVADA.		
DOUG RANKIN, AICP PLANNING MANAGER		DATE
THIS PLAN MEETS THE APPLICABLE STANDARDS OF THE PLANNING AND DEVELOPMENT		

COX COMMUNICATIONS LAS VEGAS, INC. DATE

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

PEACEFUL RIDGE - PHASE 1
LONE MOUNTAIN & PULI
A RESIDENTIAL SUBDIVISION

COVER SHEET

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CLV GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA", LATEST ISSUE, THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA NEVADA", LATEST REVISED EDITION, THE "SUMMERLIN IMPROVEMENT STANDARDS" FOR WORK IN THE SUMMERLIN AREA AND OTHER APPLICABLE AND OTHER APPLICABLE IMPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY, THE "UNIFORM BUILDING CODE, AND ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE, EXCEPT AS NOTED ON THIS SHEET AS "DEVIATIONS FROM STANDARDS".
2. THE EXISTENCE AND LOCATION OF ANY OVERHEAD OR UNDERGROUND UTILITY LINES, PIPES, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A RESEARCH OF THE AVAILABLE RECORDS. EXISTING UTILITIES AS SHOWN FROM CLV PLANS LIBRARY ARE APPROXIMATE AND FOR RECORD PURPOSES. EXISTING UTILITIES ARE LOCATED ON PLANS ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. EXISTING UTILITY SERVICE LATERALS MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, LOCATE ALL UNDERGROUND AND OVERHEAD INTERFERENCE'S WHICH MAY AFFECT HIS OPERATION DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO SAME. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COST AND LIABILITY IN CONNECTION THEREWITH.
3. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING UTILITY LINES, STRUCTURES AND STREET IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE, FROM DAMAGE, AND ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED SATISFACTORY TO THE CITY ENGINEER AND OWNING UTILITY COMPANY AT THE EXPENSE OF THE CONTRACTOR.
4. ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS, ANY REVISIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.
5. TYPE V CEMENT SHALL BE USED IN ALL OFF-SITE CONCRETE WORK. CONCRETE TO BE 3000 P.S.I. MINIMUM @ 28 DAYS. MIX DESIGNS TO BE APPROVED BY THE CITY, PRIOR TO THE USE ON THE PROJECT.
6. PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.
7. EXPANSION JOINTS REQUIRED, MAXIMUM EVERY 300' IN EXTRUDED-TYPE CURB & AC PAVEMENT TO BE ONE-HALF INCH (1/2) ABOVE LIP OF ALL GUTTERS AFTER COMPACTION, EXCEPT AT SIDEWALK RAMPS AND CROSS GUTTERS.
9. CURB AND GUTTER FOUND TO BE UNACCEPTABLE TO THE CITY OF LAS VEGAS SHALL BE REMOVED AND REPLACED PER STANDARD DRAWING 216.
10. SIDEWALK RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER STANDARD DRAWING 235. EXACT LOCATION OF RAMPS MAY BE ADJUSTED IN THE FIELD BY A CITY INSPECTOR.
11. CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND FOR INGRESS AND EGRESS TO NEW CONSTRUCTION. THE EXTENT OF THE TRANSITIONS TO BE AS SHOWN ON PLANS.
12. ALL GRADING WORK SHALL CONFORM TO THE SOILS REPORT AS PREPARED BY AMERICAN SOILS ENGINEERING, LLC REPORT NO. 1588-GEO DATE 08/04/12 APPROVED BY THE CITY ENGINEER, AND AS SHOWN ON THESE PLANS.
13. EXACT LOCATION OF ALL SAWCUT LINES MAY BE ADJUSTED OR DETERMINED IN THE FIELD BY A CITY OF LAS VEGAS ENGINEER IF LOCATION ON PLANS IS NOT CLEARLY SHOWN, OR EXISTING PAVEMENT CONDITION REQUIRES RELOCATIONS.
14. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT SURVEY MONUMENTS, ANY MONUMENTS DISTURBED SHALL BE REPLACED AND ADJUSTED PER AVAILABLE RECORDS IN ACCORDANCE WITH N.R.S. STATUTE NO. 625.380 & CITY OF LAS VEGAS TITLE 18, APPENDIX D.
15. UTILITY COMPANY METER BOXES, MANHOLE LIDS, VALVE COVERS, ETC., SHALL BE LOCATED OUT OF DRIVEWAYS, DRIVEWAY APRONS, FLOWLINES, AND CROSS GUTTERS UNLESS WRITTEN APPROVAL IS GRANTED BY THE UTILITY COMPANY AND THE CITY ENGINEER.
- WALL NOTES:
16. ALL WALLS, NEW OR EXISTING, ARE ONLY SHOWN ON CIVIL PLANS FOR THE PURPOSE OF REVIEWING GRADING RELATIONSHIPS, FLOOD CONTROL AND SIGHT DISTANCE AT INTERSECTIONS. NEW WALLS REQUIRE A SEPARATE PERMIT AND INSPECTION BY THE BUILDING DEPARTMENT.
17. ASPHALT MIX DESIGN MUST BE SUBMITTED AND APPROVED BY THE CITY ENGINEER PRIOR TO THE PLACEMENT OF ASPHALT WITHIN CITY RIGHT OF WAY.
18. CONTRACTOR SHALL ADJUST ALL NEW AND EXISTING INLETS, VALVE BOXES, MANHOLE RIMS, AND SEWER CLEAN OUTS, ETC. TO FINISH GRADE AS APPLICABLE WHETHER OR NOT THEY ARE SHOWN ON THE PLANS.
19. MATERIALS, HANDLING AND PLACEMENT OF PORTLAND CEMENT CONCRETE SHALL BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF NDOT OR THE CLARK COUNTY AREA SPECIFICATIONS (AS APPLICABLE) AND THE PLANS AND DETAILS SHOWN HEREON.
20. WHEN INSTALLING UNDERGROUND FACILITIES THAT REQUIRE UNDERGROUND LOCATING DEVICES SUCH AS MARKER BALLS, LOCATING RIBBON, ETC. THE CONTRACTOR SHALL PROVIDE WRITTEN DOCUMENTATION TO THE CITY ENGINEER TO OFFSITE INSPECTION AND TESTING CERTIFYING THAT ALL DEVICES HAVE BEEN PLACED AND VERIFIED TO BE IN GOOD WORKING CONDITION PRIOR TO THE CONSTRUCTION OF ANY ROAD BASE.
21. SANITARY SEWER AND STORM DRAIN FINAL LOCATION MAP(S) SHALL BE PROVIDED TO THE OFFSITE INSPECTION AND TESTING SECTION PRIOR TO PROJECT ACCEPTANCE. THE MAP(S) SHALL INCLUDE THE HORIZONTAL AND VERTICAL (INVERT) LOCATION OF PUBLIC SEWER MANHOLES, STORM DRAIN MANHOLES, STORM DRAIN LATERALS AT THE CONNECTION TO THE STORM DRAIN MAIN AND AT THE CONNECTION TO A DROP INLET, AND THE CONNECTION OF THE SEWER SERVICE LATERALS TO THE SEWER MAIN AND WHERE THE SEWER SERVICE LATERALS EXITS THE PUBLIC RIGHT-OF-WAY. THE LOCATION SHALL BE DESCRIBED BY STATE PLANE COORDINATES WHICH SHALL BE BASED ON THE "NEVADA COORDINATE SYSTEM OF 1983, EAST ZONE" AS DEFINED BY THE NEVADA REVISED STATUTES CHAPTER 327, AND TIED TO THE CITY OF LAS VEGAS VERTICAL CONTROL BENCHMARK NETWORK. COORDINATES MUST BE CERTIFIED BY A NEVADA PROFESSIONAL LAND SURVEYOR TO HAVE POSITIONAL CERTAINITY OF +/- 0.1 METER (+/- 0.3 FEET). A SEPARATE ELECTRONIC COMMA DELIMITED FILE FOR THE SANITARY SEWER AND STORM DRAIN COORDINATES SHALL ALSO ACCOMPANY THE SANITARY SEWER AND STORM DRAIN FINAL LOCATION MAP(S).
22. SANITARY SEWER SERVICE LATERALS REQUIRE THE INSTALLATION OF A MARKER BALL AT THE CONNECTION OF THE SEWER SERVICE LATERAL TO THE SEWER MAIN AND WHERE THE SEWER SERVICE LATERAL EXITS THE PUBLIC RIGHT-OF-WAY. STORM DRAIN LATERALS REQUIRE THE INSTALLATION OF A MARKER BALL AT THE CONNECTION OF THE STORM DRAIN LATERAL TO THE STORM DRAIN MAIN AND WHERE THE STORM DRAIN LATERAL EXITS THE PUBLIC RIGHT-OF-WAY OR WHEN THE STORM DRAIN LATERAL CONNECTS TO A DROP INLET. THE MARKER BALL SHALL BE 3M 4" MARKER BALL, 1404XLR OR APPROVED EQUAL.
23. CCTV VIDEO INSPECTION IS REQUIRED FOR ALL SEWER AND STORM DRAINS. THE CCTV VIDEO INSPECTIONS NEED TO BE PERFORMED PER THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS LATEST ADDITION.
24. A SEPARATE BORING PERMIT IS REQUIRED FOR ALL BORING ACTIVITIES.

CLV TRAFFIC NOTES

1. ALL CONSTRUCTION SIGNING, BARRICADING, AND TRAFFIC DELINEATION SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION.
2. THE STREET SIGN CONTRACTOR SHALL OBTAIN STREET NAMES AND BLOCK NUMBERING FROM THE PLANNING DEPARTMENT PRIOR TO CONSTRUCTION.
3. BEFORE ANY WORK IS STARTED IN THE RIGHT-OF-WAY, THE CONTRACTOR SHALL INSTALL ALL ADVANCE WARNING SIGNS FOR THE CONSTRUCTION ZONE. THE CONTRACTOR SHALL INSTALL TEMPORARY STOP SIGNS AT ALL NEW STREET ENCROACHMENTS INTO EXISTING CITY STREETS WHERE WARRANTED IMMEDIATELY AFTER FIRST GRADING WORK IS ACCOMPLISHED, AND SHALL MAINTAIN SAID SIGNS UNTIL PERMANENT SIGNS ARE INSTALLED.
4. WHEN A DESIGNATED "SAFE ROUTE TO SCHOOL" IS ENCLOSED UPON BY A CONSTRUCTION WORK ZONE AND PUBLIC WORKS STAFF IDENTIFIES A NEED FOR STUDENTS TO BE ASSISTED IN THE SAFE CROSSING THROUGH THAT WORK ZONE, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE A QUALIFIED "CROSSING GUARD". THE GUARD SHALL BE PRESENT FOR THE FULL DURATION OF TIME THAT CHILDREN ARE LIKELY TO BE PRESENT.
5. IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY OBSTRUCTION, TEMPORARY REMOVAL OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS TO THE SATISFACTION OF THE CITY TRAFFIC ENGINEER.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL PERMANENT SIGNS SHOWN ON THE PLANS. ALL NEW TRAFFIC SIGNS SHALL BE FABRICATED WITH DIAMOND GRADE VIB CLASS 8 REFLECTIVE SHEETING OR APPROVED EQUAL. ALL NEW TRAFFIC SIGNS, EXCEPT STREETNAME AND SCHOOL SPEED LIMIT SIGNS, SHALL HAVE 3M SERIES 1160 OR APPROVED EQUIVALENT ANTI-GRAFFITI PROTECTIVE OVERLAY FILM. SCHOOL ZONE SIGNS SHALL HAVE 3M SERIES 1160 ANTI-GRAFFITI PROTECTIVE OVERLAY FILM. STREET NAME SIGNS SHALL CONFORM IN THEIR ENTIRETY TO CURRENT CITY STANDARDS. ALL OTHER SIGNS SHALL BE STANDARD SIZE UNLESS OTHERWISE SPECIFIED ON THE PLANS. ALL SIGN POSTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT CITY STANDARDS.
7. WHEN A PROPOSED STREET LIGHT STANDARD IS LOCATED WITHIN FIVE (5) FEET OF ANY PROPOSED SIGN SHOWN ON THE PLANS TO BE MOUNTED ON A SIGNPOST, THE SIGN SHALL BE MOUNTED ON THE STREET LIGHT STANDARD AND THE SIGNPOST SHALL BE ELIMINATED.
8. ALL PERMANENT TRAFFIC CONTROL DEVICES CALLED FOR HEREON SHALL BE IN PLACE AND IN FINAL POSITION PRIOR TO ALLOWING ANY PUBLIC TRAFFIC ONTO THE PORTIONS OF THE ROAD(S) BEING IMPROVED HERE UNDER, REGARDLESS OF THE STATUS OF COMPLETION OF PAVING OR OTHER OFF-SITE IMPROVEMENTS CALLED FOR BY THESE PLANS.
9. STREET SIGNS AND STOPS SIGNS SHALL BE INSTALLED PER CITY STANDARD SPECIFICATIONS FOR PLACEMENT OF STREET NAME SIGNS.
10. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAFFIC CONTROL DEVICES AND FLAGGERS TO INSURE THE SAFETY OF THE PUBLIC IN OR AROUND THE WORK AREA. THE CONTRACTOR SHALL HAVE A CERTIFIED ATSSA TRAFFIC CONTROL TECHNICIAN OR IMAA WORK ZONE SAFETY SPECIALIST SET UP, MAINTAIN AND/OR REMOVE ALL TRAFFIC CONTROL DEVICES IN THE CITY OF LAS VEGAS RIGHT OF WAY.
11. WORK IN PUBLIC STREETS, ONCE BEGUN, SHALL BE EXPEDITED TO COMPLETION SO AS TO PROVIDE MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND TO THE TRAVELING PUBLIC.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING CITIZENS AREA TRANSIT (C.A.T.) IF THE CONSTRUCTION INTERRUPTS OR RELOCATES A BUS STOP OR HAS AN ADVERSE EFFECT ON BUS SERVICE ON THAT STREET TO ARRANGE FOR TEMPORARY RELOCATION OF STOP.
13. GUARDS SHALL BE OBTAINED BY CONTACTING THE METROPOLITAN POLICE DEPARTMENT SPECIAL EVENTS UNIT (PHONE # 828-3442) WHO WILL PROVIDE OFFICERS PROPERLY TRAINED IN TRAFFIC CONTROL, FEES FOR THE USE OF THESE OFFICERS SHALL BE SET BY METRO AND WILL BE PAID BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR ALL ARRANGEMENTS WITH METRO.
14. ANY WORK WITHIN 300' OF A SIGNALIZED INTERSECTION WILL BE NIGHT WORK, UNLESS OTHERWISE DIRECTED BY THE CITY OF LAS VEGAS TRAFFIC ENGINEER.
15. THE CONTRACTOR SHALL CONTACT THE TRAFFIC ENGINEERING DIVISION (TRANSPORTATION SECTION) THROUGH THE PROJECTS OFFSITE INSPECTOR PRIOR TO INITIATING PAVING TO RECEIVING DIRECTION FOR ANY PERMANENT OR TEMPORARY MODIFICATIONS TO THE APPROVED DRAWINGS REGARDING FINAL PAVEMENT TRANSITIONS, MARKINGS AND SIGNING THAT ARE REQUIRED TO MATCH ADJACENT ROADWAY SEGMENTS. THE CONTRACTOR SHALL PROVIDE A DRAWING FOR APPROVAL BY THE TRAFFIC ENGINEERING DIVISION DEPICTING ANY ADJUSTMENTS TO THE FINAL PAVEMENT MARKINGS AND SIGNAGE, WHICH MAY INCLUDE OMITTING, ADDING OR MODIFYING PAVEMENT MARKINGS AND TRAFFIC CONTROL SIGNS SUCH THAT ADEQUATE TRANSITIONS AND LANE TERMINATIONS BETWEEN ADJACENT ROADWAY SEGMENTS ARE CONSTRUCTED.

CLV FIRE DEPARTMENT NOTES

- ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE LAS VEGAS FIRE AND RESCUE ADOPTED FIRE CODE ORDINANCE # 6124 FOR HYDRANT SPECIFICATIONS AND HYDRANT INSTALLATION SPECIFICATIONS. AUTHORIZED FIRE HYDRANTS ARE AS FOLLOWS:
- KENNEDY - GUARDIAN MODELS K81A AND K81D
 - MUELLER - SUPER CENTURION 250, MODEL A-423
 - CLOW-MEDALLION MODEL F-2461VD
 - TROY VALVE - PATRIOT MODEL PT810N, NEVADA HYDRANT
 - U.S. PIPE - METROFLOWM-03
- A PERMIT IS REQUIRED FROM LAS VEGAS FIRE AND RESCUE FOR THE INSTALLATION OF ON-SITE WATER LINES AND FIRE HYDRANTS. THE PERMIT AND CONTRACTORS MATERIAL TEST CERTIFICATE FOR UNDERGROUND PIPING FORM SHALL BE OBTAINED FROM THE FIRE PROTECTION ENGINEER BEFORE COMMENCEMENT OF WORK.
- ON ANY RESIDENTIAL OR COMMERCIAL INSTALLATIONS, FIRE HYDRANTS SHALL BE INSTALLED AND FIRE APPARATUS ACCESS ROADS SHALL BE MAINTAINED BEFORE COMMENCEMENT OF ANY COMBUSTIBLE CONSTRUCTION. ALL FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER AND SHALL BE CAPABLE OF DELIVERING THE REQUIRED FIRE FLOW. SNFC #6124, SECTION 14.12.
- TO IDENTIFY THE FIRE HYDRANT LOCATIONS, THE CONTRACTOR SHALL PLACE A BLUE REFLECTIVE MARKER AT THE CENTER LINE OF THE STREET ADJACENT TO THE FIRE HYDRANTS. SNFC #6124 SECTION 507.5.7.3
- ALL UNDERGROUND INSPECTIONS, PRESSURE AND FLUSH VERIFICATIONS OF ALL FIRE HYDRANTS AND FIRE LINES, SHALL BE CONDUCTED BEFORE COVERING THE LINES. CENTER LOADING IS ACCEPTABLE FOR THE HYDRO TESTS WITH PRIOR FIRE PREVENTION APPROVAL. ALL ON-SITE UNDERGROUND WATER MAINS AND MATERIALS SHALL BE U.L. LISTED, A.W.W.A APPROVED AND SHALL BE RATED FOR THE APPROPRIATE WORKING PRESSURE. SNFC 507.2.1, NFPA 24
- PAINTING OF CURBS, FIRE HYDRANTS, PADS, PROTECTION OF FIRE HYDRANTS FROM PHYSICAL DAMAGE, AND ALL OTHER WORK NECESSARY PER PLANS SHALL BE COMPLETED BEFORE APPROVAL BY LAS VEGAS FIRE AND RESCUE, FIRE PREVENTION DIVISION. IFC 507; SNFC 507.5.7
- PRIVATE HYDRANTS SHALL BE PAINTED RED. SNFC 507.5.7.1
- PRIOR TO THE FINAL OCCUPANCY, A FIRE FLOW TEST SHALL BE WITNESSED BY LAS VEGAS FIRE AND RESCUE, FIRE PREVENTION DIVISION TO VERIFY AVAILABILITY OF THE REQUIRED FIRE FLOW. IFC 507; SNFC 507.1
- FIRE HYDRANT SPACING SHALL BE AS FOLLOWS: SNFC C102
- RESIDENTIAL - 500 FT UNSPRINKLERED, 800 FT SPRINKLERED.
 - COMMERCIAL - 300 FT UNSPRINKLERED, 400 FT SPRINKLERED.
- WHERE THE WATER MAINS ARE EXTENDED ALONG STREETS OR NEW STREETS ARE INSTALLED WHERE FIRE HYDRANTS ARE NOT NEEDED FOR PROTECTION OF THE STRUCTURES, FIRE HYDRANTS SHALL BE INSTALLED AT A MAXIMUM OF 1000 FT SPACING. TO PROVIDE FOR TRANSPORTATION HAZARDS, WHERE STREETS ARE PROVIDED WITH MEDIAN DIVIDERS OR HAVE FOUR (4) OR MORE TRAFFIC LANES AND HAVE A TRAFFIC COUNT OF MORE THAN 30,000 PER DAY, HYDRANTS ARE REQUIRED ON EACH SIDE OF THE STREET SPACED AT 500 FT ON AN ALTERNATING BASIS. SNFC C102.14
- NO FIRE HYDRANTS SHALL BE LOCATED WITHIN THE RADIUS OF A CUL-DE-SAC OR WITHIN 20 FT OF THE PERIMETER OF THE RADIUS OF THE CUL-DE-SAC. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN 6 FT OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREETLIGHT OR ANY OTHER OBSTRUCTION. SNFC C102.12
- A MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A ONE-TWO FAMILY DWELLING SHALL NOT EXCEED 300 FT, AS MEASURED BY AN APPROVED ROUTE. SNFC 102.2. THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A FIRE DEPARTMENT CONNECTION (FDC) SHALL NOT EXCEED 100 FT, AS MEASURED BY AN APPROVED ROUTE. SNFC C102.1
- THE MAXIMUM DISTANCE FROM A HYDRANT TO THE END OF A DEAD-END STREET SHALL NOT EXCEED 200 FT. SNFC 102.6
- TWO (2) SOURCES OF SUPPLY ARE REQUIRED WHENEVER THERE IS 4 OR MORE FIRE HYDRANTS/SPRINKLER LEAD-INS ARE INSTALLED ON A SINGLE SYSTEM. SECTIONAL CONTROL VALVES SHALL BE INSTALLED SO THAT NO MORE THAN 2 FIRE HYDRANTS CAN BE OUT OF SERVICE DUE TO A BREAK IN A WATER MAIN.
- ALL FIRE APPARATUS ACCESS ROADS SHALL BE PAVED TO PROVIDE ALL-WEATHER DRIVING CAPABILITIES, AND SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF THE FIRE APPARATUS. SNFC 503.2.3
- THE GRADIENT FOR THE FIRE APPARATUS ACCESS ROADS SHALL NOT EXCEED 12%. ANGLES OF APPROACH AND ANGLES OF DEPARTURE SHALL NOT EXCEED 6% FOR 25 FT PRIOR TO OR AFTER THE GRADE CHANGE, ADJACENT TO THE STRUCTURES GRADIENT SHALL NOT EXCEED 6%. SNFC 503.2.7 / 503.2.8
- THE TURNING RADIUS OF THE FIRE APPARATUS ACCESS ROADS SHALL BE NO LESS THAN 52 FT OUTSIDE AND 28 FT INSIDE TURNING RADII. SNFC 503.2.4
- VERTICAL CLEARANCE OF ALL FIRE APPARATUS ACCESS ROADS SHALL NOT BE LESS THAN 13FT 6 INS. SNFC 503.2.1.1 / IFC 503
- FIRE DEPARTMENT ACCESS ROADS IN ALL RESIDENTIAL DEVELOPMENTS (EXCEPT APARTMENT BUILDINGS) SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF NOT LESS THAN 36 FT FLOW LINE TO FLOW LINE (THIS WIDTH MAY BE REDUCED TO 24 FT IF ALL BUILDINGS FRONTING THE STREET ARE SPRINKLERED) FOR MAIN RESIDENTIAL STREETS, WITH PARKING PERMITTED ON BOTH SIDES OF THE STREET. PRIVATE DRIVE AISLES, DRIVEWAYS, ETC. SHALL BE ALLOWED TO BE REDUCED TO A MINIMUM WIDTH OF 24 FT FLOW LINE TO FLOW LINE WHEN SERVING NO MORE THE 6 RESIDENTS, AND WHEN ON STREET PARKING IS DISALLOWED. SNFC 503.2.1 / 503.2.1.1
- ALL FIRE APPARATUS ACCESS ROADS IN COMMERCIAL DEVELOPMENTS AND APARTMENT COMPLEXES SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF NOT LESS THAN 24 FT (FLOW LINE TO FLOW LINE), PROVIDED NO PARKING IS ALLOWED ON EITHER SIDE. 32 FT (FLOW LINE TO FLOW LINE), WITH PARALLEL PARKING ON ONE SIDE, AND 36 FT (FLOW LINE TO FLOW LINE), IF PARALLEL PARKING IS ALLOWED ON BOTH SIDES. THESE WIDTHS MAY BE REDUCED TO 24 FT IF SPRINKLERED. SNFC 503.2.1.1
- A FIRE APPARATUS ACCESS ROAD SHALL BE REQUIRED WHEN ANY PORTION OF AN EXTERIOR WALL OF THE FIRST STORY IS LOCATED MORE THAN 150 FT FROM A FIRE DEPARTMENT VEHICLE ACCESS. THIS DISTANCE COULD BE INCREASED TO 250 FT IF THE BUILDING IS SPRINKLERED. IFC 503.1.1 / SNFC 503.1.1
- APPROVED SECONDARY FIRE APPARATUS ACCESS SHALL BE PROVIDED FOR 100 OR MORE DWELLING UNITS, ROAD(S) WITH DEAD-ENDS OR WITH A SINGLE POINT OF ACCESS IN EXCESS OF 600 FT, AND FOR ALL COMMERCIAL, INDUSTRIAL, AND MULTI-FAMILY RESIDENTIAL DEVELOPMENTS. SNFC 503.1.2
- ALL DEAD-END FIRE APPARATUS ROADS AND/OR FIRE LANES, PUBLIC OR PRIVATE, IN EXCESS OF 150 FT IN LENGTH SHALL BE PROVIDED WITH AN APPROVED TURN AROUND HAVING A MINIMUM DIAMETER OF 81 FT. SNFC 503.2.5
- ALL FIRE APPARATUS ACCESS ROADS SHALL BE MARKED BY PLACING APPROVED SIGNS AT THE START OF THE DESIGNATED FIRE LANE, ONE SIGN AT THE END OF THE FIRE LANE AND WITH SIGNS AT INTERVALS OF 100 FT ALONG THE DESIGNATED FIRE LANE. SIGNS SHALL BE PLACED ON BOTH SIDES OF AN ACCESS ROADWAY IF NEEDED TO PREVENT PARKING ON EITHER SIDE. SIGNS TO BE INSTALLED NO HIGHER THAN 10 FT OR LESS THAN 6 FT FROM THE PAINT IN ADDITION TO THE SIGNS. SNFC 503.3
- ELECTRICALLY CONTROLLED ACCESS GATES SHALL BE PROVIDED WITH AN APPROVED EMERGENCY VEHICLE DETECTOR/RECEIVER SYSTEM. SAID SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF LAS VEGAS GUIDELINES FOR AUTOMATIC EMERGENCY VEHICLE ACCESS GATES. IFC / SNFC 503.6

CLV STREETLIGHT NOTES

1. ALL STREET LIGHTING INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE STREET LIGHTING PLANS, THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST REVISION, AND THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST REVISION, AND ANY ADOPTED SPECIAL AREA STANDARDS.
2. NO DEVIATION OF STREET LIGHT, PULL BOX, CONDUITS (ETC.) LOCATIONS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL OF TRAFFIC ENGINEERING AND THE CITY ENGINEER.
3. ALL EXISTING STREET LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION.
4. ALL STREET LIGHTING CONDUITS STUB SHALL HAVE AT LEAST ONE GREEN #8 THW WIRE INSTALLED, AS TRACER WIRE. WHEN "EMPTY" CONDUIT IS COMPLETELY INSTALLED FROM PB TO PB, IT SHALL HAVE MINIMUM OF 2 #4 AND 1 #8 THW WIRE WITH THE ENDS TAPED OR "SAFE OFF" PRIOR TO FINAL INSPECTION.
5. ANY STRUCTURE SUCH AS BLOCK WALLS, CHAIN LINK FENCES, RETAINING WALLS, ETC., SHALL LEAVE A MINIMUM CLEARANCE IN ACCORDANCE WITH THE USD NO. 320A.
6. AS-BUILT DRAWINGS SHALL BE SUPPLIED TO THE TEF0 PRIOR TO ANY PRE-FINAL INSPECTION. THE ASBUILT DRAWING NEEDS TO BE STAMPED AS-BUILT AND SIGNED BY THE PREPARER.
7. SERVICE POINT SHALL BE COORDINATED WITH NV ENERGY COMPANY, AND WHEREVER POSSIBLE, BE LOCATED NEAR THE CENTER OF THE CIRCUIT. SERVICE POINTS SHALL BE SHOWN ON THE CIVIL PLANS.
8. IT SHALL BE ASSUMED THAT IN THE ABSENCE OF AN EXISTING, WORKABLE CIRCUIT TO ATTACH TO, ALL INSTALLATIONS SHALL REQUIRE A NEW SERVICE FOR OPERATION OF THE CIRCUIT.
9. WHEREVER THERE IS AN OVERHEAD UTILITY THAT MAY CONFLICT WITH THE INSTALLATION OF STREET LIGHTING CIRCUITS AND/OR POLES, THESE CONFLICTS MUST BE RESOLVED BETWEEN THE DEVELOPER AND THE UTILITIES INVOLVED, AT NO EXPENSE TO THE CITY OF LAS VEGAS, BEFORE STREETLIGHT BASES ARE INSTALLED.
10. THE CONTRACTOR SHALL FURNISH COMPLETE SERVICE TO TRANSFORMERS AND CONTROL SYSTEMS IF REQUIRED ON PLANS.
11. THE DEVELOPER/OWNER WILL BE REQUIRED TO SUPPLY POWER TO ALL NEW PUBLIC STREET LIGHTS INSTALLED UNDER THIS DESIGN PRIOR TO BOND RELEASE OR PROJECT COMPLETION. THE DEVELOPER/OWNER WILL BE RESPONSIBLE FOR ALL ITEMS ASSOCIATED WITH THE INSTALLATION, CONSTRUCTION, ENERGIZING, MAINTENANCE AND OPERATIONAL COST OF SAID STREET LIGHTS PRIOR TO PROJECT COMPLETION. REFER TO THE PLAN FOR ANY NEW SERVICE REQUIREMENTS. THE TRANSFER OF OWNERSHIP FROM THE DEVELOPER/OWNER TO THE CITY OF LAS VEGAS FOR ALL NEW PUBLIC STREET LIGHTS AND/OR SERVICES INSTALLED UNDER THIS PLAN DESIGN WILL BE IN CONJUNCTION WITH THIS PROJECT COMPLETION. COORDINATE ALL MAINTENANCE AND OPERATIONAL TRANSFERS WITH THE CITY OF LAS VEGAS TRAFFIC ENGINEERING DEPARTMENT (TEF0) AT (702) 229-6331.

STORMWATER RUNOFF MANAGEMENT NOTES

1. THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATE IN, THE PUBLIC RIGHTS OF WAY OF CLARK COUNTY AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.
2. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN CLARK COUNTY TITLE 24-40 AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BEST MANAGEMENT PRACTICES MANUAL.
3. TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVRI00000, SECTION III.A.5.
4. AT A MINIMUM, THE CONTRACTOR R HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS AND ALL BMPs WEEKLY, AND WITHIN 24 HOURS AFTER AND ACTUAL RAIN EVENT OF 0.5 INCHES OR MORE. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVRI00000, SECTION III.A.12.
5. ACCUMULATED SEDIMENT IN BMPs SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

CLV GRADING NOTES

1. IN THE EVENT THAT ANY UNFORESEEN CONDITIONS NOT COVERED BY THESE NOTES ARE ENCOUNTERED DURING GRADING OPERATIONS, THE OWNER/ENGINEER SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTION.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL NECESSARY CUTS AND FILLS WITHIN THE LIMITS OF THIS PROJECT AND THE RELATED OFF-SITE WORK, SO AS TO GENERATE THE DESIRED SUBGRADE, FINISH GRADES AND SLOPES SHOWN.
3. CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ALL EXCAVATION. ADEQUATE SHORING SHALL BE DESIGNED AND PROVIDED BY THE CONTRACTOR TO PREVENT UNDERMINING OF ANY ADJACENT FEATURES OR FACILITIES AND/OR CAVING OF EXCAVATION.
4. THE CONTRACTOR IS WARNED THAT AN EARTHWORK BALANCE WAS NOT NECESSARILY THE INTENT OF THIS PROJECT. ANY ADDITIONAL MATERIAL REQUIRED OR LEFTOVER MATERIAL FOLLOWING EARTHWORK OPERATIONS BECOMES THE RESPONSIBILITY OF THE CONTRACTOR.
5. THE GRADING CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH THE OWNER TO PROVIDE FOR THE REQUIREMENTS OF THE PROJECT STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND ASSOCIATED PERMIT.
6. THE CONTRACTOR SHALL GRADE TO THE LINES AND ELEVATIONS SHOWN ON THE PLANS WITHIN THE FOLLOWING HORIZONTAL AND VERTICAL TOLERANCES AND DEGREES OF COMPACTION IN THE AREAS INDICATED:
- | | HORIZONTAL | VERTICAL | COMPACTION |
|---------------------------|------------|----------------|------------------|
| A. PAVEMENT AREA SUBGRADE | 0.1" | +0.1" TO -0.1" | SEE SOILS REPORT |
| B. ENGINEERED FILL | 0.5" | +0.1" TO -0.1" | SEE SOILS REPORT |
- COMPACTION TESTING WILL BE PERFORMED BY THE OWNER OR HIS REPRESENTATIVE.
7. ALL CUT AND FILL SLOPES SHALL BE PROTECTED UNTIL EFFECTIVE EROSION CONTROL HAS BEEN ESTABLISHED.
8. THE USE OF POTABLE WATER WITHOUT A SPECIAL PERMIT FOR BUILDING OR CONSTRUCTION PURPOSES INCLUDING CONSOLIDATION OF BACKFILL OR DUST CONTROL IS PROHIBITED. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR CONSTRUCTION WATER.
9. THE CONTRACTOR SHALL MAINTAIN THE STREETS, SIDEWALKS, AND ALL OTHER PUBLIC RIGHT-OF-WAY IN A CLEAN, SAFE, AND USEABLE CONDITION. ALL SPILLS OF SOIL, ROCK, OR CONSTRUCTION DEBRIS SHALL BE PROMPTLY REMOVED FROM THE PUBLICLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC SHALL BE MAINTAINED IN A CLEAN, SAFE, AND USABLE CONDITION.
10. IN THE EVENT THAT ANY TEMPORARY CONSTRUCTION ITEM IS REQUIRED THAT IS NOT SHOWN ON THESE DRAWINGS, THE OWNER AGREES TO PROVIDE AND INSTALL SUCH ITEM AT HIS OWN EXPENSE AND AT THE DIRECTION OF THE CITY ENGINEER. TEMPORARY CONSTRUCTION INCLUDES DITCHES, BERMS, ROAD SIGNS, BARRICADES, ETC.

GRADING QUANTITIES

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

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

CLV SEWER NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF DESIGN & CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS AND THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, AS AMENDED. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTORS TO BE AWARE OF THE CONTENTS OF THE ABOVE SPECIFICATIONS.
2. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PERFORM CONSTRUCTION AS PER PLANS. ANY ADDITIONS, DELETIONS, OR CHANGES SHALL FIRST MEET WITH THE APPROVAL OF THE CITY ENGINEERS.
3. CHISEL "S" OR "G" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.
4. POLYVINYL (PVC) SEWER PIPE SHALL MEET ASTM D-3034 SDR 35 SPECIFICATIONS, INSTALLED WITH SAND BEDDING AND BACKFILL OF TYPE II AGGREGATE BASE.
5. ALL MANHOLES IN PAVED STREETS EIGHTY FEET (80') R/W AND LARGER SHALL HAVE CONCRETE COLLARS. STREETS LESS THAN EIGHTY FEET (80') WILL REQUIRE RETROFITTING IF PAVING DOES NOT CONFORM TO CITY STANDARDS AT THE MANHOLE.
6. TEE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO TWELVE INCHES (12") IN DIAMETER. CONNECTIONS TO FIFTEEN INCH (15") OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES. INLINE "Y" SHALL BE USED ON LINES TWELVE INCHES (12") IN DIAMETER AND ABOVE.
7. WATER MAINS SHALL BE PROTECTED IN ACCORDANCE WITH LVVWD STANDARDS WHENEVER A SEWER MAIN CROSSES OVER A MAIN LINE OR THE SEWER IS LESS THAN EIGHTEEN INCHES (18") UNDER A WATER MAIN.
8. ALL CONTRACTORS INSTALLING SEWER MAINS THAT WILL BE UNDER JURISDICTION OF THE CITY OF LAS VEGAS MUST BE STATE OF NEVADA CLASS "A" CONTRACTORS.
9. THE CITY OF LAS VEGAS WILL NOT ACCEPT ANY SEWER MAINS WHICH HAVE A VERTICAL DEFLECTION OF MORE THAN ONE TENTH OF A FOOT (0.1') FROM THE APPROVED CONSTRUCTION PLANS AT ANY LOCATION. SEWER MAINS FOUND TO EXCEED THIS TOLERANCE WILL HAVE TO BE REPAIRED OR REMOVED AND REPLACED TO THE SATISFACTION OF THE CITY ENGINEER PRIOR TO ACCEPTANCE BY THE CITY OF LAS VEGAS.
10. INSTALLATION OF CURVED SEWER REQUIRES THE USE OF PVC C800 WHICH ALLOWS FOR PIPE DEFLECTION AT THE JOINTS.

LAS VEGAS VALLEY WATER DISTRICT NOTES

- LVVWD PROJECT #XX
1. NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN APPROVED FOR CONSTRUCTION BY THE LVVWD. FOLLOWING WATER PLAN APPROVAL, NOTICE SHALL BE GIVEN TO THE LVVWD COMMUNICATION SUPPORT CENTER (258-7171) TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. FOR FUTURE INSPECTIONS, NOTICE MUST BE GIVEN BY 2:00 P.M. THE BUSINESS DAY PRIOR TO THE REQUESTED LVVWD INSPECTION. WHEN REQUESTING INSPECTIONS, PLEASE REFER TO THE PROJECT # IDENTIFIED ABOVE.
2. ALL WORK SHALL CONFORM TO LVVWD STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS, AND TO THE 2010 EDITION OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS). THE LATEST EDITION OF UDACS SHALL SUPERSEDE ANY CONFLICTS CONTAINED IN THE APPROVED DRAWINGS AND/OR SPECIFICATIONS.
3. ALL WORK, EXCEPT AS MODIFIED BY THESE PLANS OR BY NOTE 2 ABOVE, SHALL BE DONE IN ACCORDANCE WITH THE MOST RECENT DRAFT OR EDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENT, CLARK COUNTY AREA.
4. A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVVWD.
5. ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING WITH LVVWD APPROVED SERVICE SADDLES.
6. ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
7. ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY AND CURB GUTTERS.
8. ALL WATER AND STORM DRAIN OR SANITARY SEWER CROSSINGS SHALL CONFORM TO SECTION 2.22 OF THE 2010 EDITION OF THE UDACS.
9. ALL WATER FACILITIES SHALL BE FILLED, DISINFECTED, PRESSURE TESTED, FLUSHED, FILLED, AND AN ACCEPTABLE WATER SAMPLE OBTAINED, PRIOR TO CONNECTION TO THE LVVWD DISTRIBUTION SYSTEM.
10. THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES AND SMALLER FROM LVVWD CENTRAL STORES. TELEPHONE 258-3152 OR 258-3802, TWO (2) WORKING DAYS PRIOR TO METER PICKUP.
11. ANY INTERRUPTION OF SERVICE MUST BE PERFORMED IN ACCORDANCE WITH UDACS SECTION 3.14.01, AND APPROVED BY THE LVVWD INSPECTION DIVISION PRIOR TO SHUTDOWN. PROPER WRITTEN NOTIFICATION MUST BE GIVEN TO ALL AFFECTED CUSTOMERS.
12. ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST BE AS LISTED ON THE LVVWD PRE-APPROVED MATERIALS AND MANUFACTURERS LISTING FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS.
13. TELEPHONE "CALL BEFORE YOU DIG" AT "811" OR 1-800-227-2600.
14. THE INSTALLATION OF LAS VEGAS VALLEY WATER DISTRICT (LVVWD) MUNICIPAL WATER FACILITIES WITHIN ALL STREETS IS ASSUMED TO BE IN COMPLIANCE WITH THE UNIFORM STANDARDS, INCLUDING THE PLACEMENT OF ASPHALT PAVING STREET SURFACES. ANY REPAIR WORK DONE BY THE LVVWD TO THE MUNICIPAL WATER FACILITIES WILL INCLUDE THE PLACEMENT OF AN APPROPRIATELY SIZED ASPHALT REPAIR PATCH ON THE STREET SURFACE.
- ANY DECORATIVE PAVING SURFACE WITHIN THE STREET IS THE RESPONSIBILITY OF THE OWNER'S ASSOCIATION, OR THE INDIVIDUAL PROPERTY OWNERS IF NO OWNER'S ASSOCIATION IS IN EXISTENCE, OR THE AGENCY HAVING JURISDICTION. DECORATIVE SURFACE MATERIALS PLACED WITHIN THE TEN FOOT EASEMENT ABUTTING A PUBLIC OR PRIVATE STREET, IF DISTURBED BY THE LVVWD DURING THE REPAIR OR OPERATION OF ITS FACILITIES, WILL BE REPLACED BY LVVWD WITH AN APPROPRIATELY SIZED PLAIN FINISH CONCRETE PATCH. THE LVVWD WILL NOT RESTORE, AND WILL NOT BE RESPONSIBLE FOR THE RESTORATION OF, ANY DECORATIVE PAVING SURFACE WITHIN THE STREET. THE LVVWD WILL NOT ATTEMPT TO MATCH COLOR OR FINISH OF ANY ADJACENT MATERIALS.

APPROVED FOR CONSTRUCTION

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

DATE

DEVIATIONS FROM STANDARDS

1. NONE

QUANTITIES

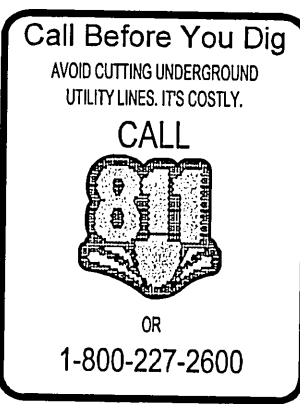
PAVING AND GRADING	PUBLIC	PRIVATE
24" L-TYPE CURB & GUTTER		25,892 LF
8.0" CROSS GUTTER		6,714 SF
SIDEWALK RAMPS		28 EA
4" THICK CONCRETE SIDEWALK		58,593 SF
2.0" AC PAVEMENT		40,248 SY
3.0" AC PAVEMENT	3,785 SY	
4.0" AC PAVEMENT	1,231 CY	
TYPE II AGGREGATE BASE		5,462 CY
SIDEWALK UNDERDRAIN		16 EA
RIPRAP D50=12"		400 CY

STORM DRAIN

6.0" TYPE CM DROP INLET	2 EA
7.5" TYPE CM DROP INLET	1 EA
10.0" TYPE CM DROP INLET	7 EA
15.0" TYPE CM DROP INLET	1 EA
20.0" TYPE CM DROP INLET	1 EA
25.0" TYPE CM DROP INLET	1 EA
25.0" TYPE CM DROP INLET	1 EA
NDOT HEADWALL	4 EA
CUSTOM DROP INLET	1 EA
FLARED END SECTION	9 EA
48" TYPE I SDMH	2 EA
60" TYPE I SDMH	4 EA
48" TYPE II SDMH	1 EA
60" TYPE II SDMH	3 EA
60" TYPE III SDMH	20 EA
NDOT TYPE IV SDMH	2 EA
16" RCP STORM DRAIN	680 LF
24" RCP STORM DRAIN	138 LF
30" RCP STORM DRAIN	800 LF
36" RCP STORM DRAIN	1,320 LF
42" RCP STORM DRAIN	343 LF
48" RCP STORM DRAIN	687 LF
54" RCP STORM DRAIN	360 LF
60" RCP STORM DRAIN	39 LF

DEBRIS BASIN AND ACCESS ROAD

12" RCP STORM DRAIN	275 LF
18" RCP STORM DRAIN	555 LF
TYPE II AGGREGATE BASE	622 CY
4" SHOTCRETE	16,240 SF



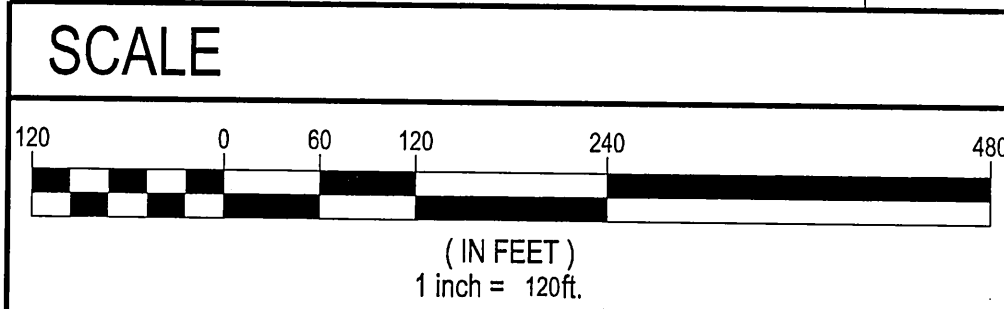
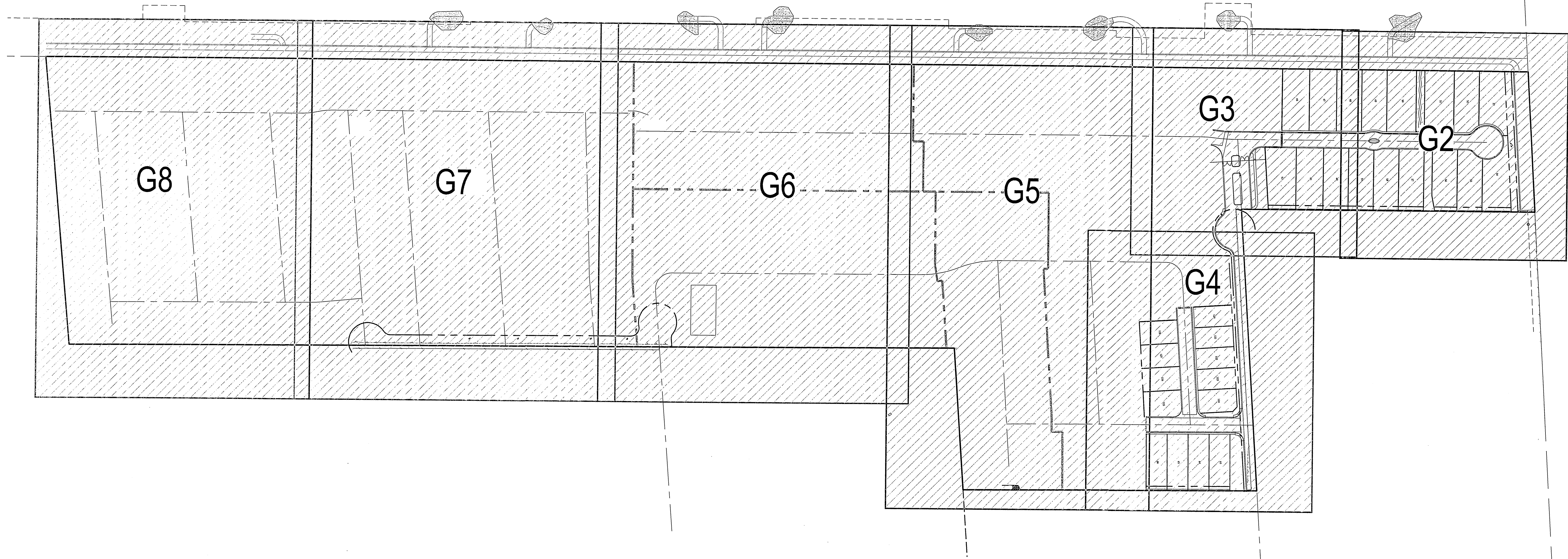
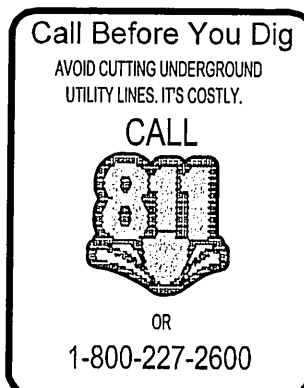
UTILITY DISCLAIMER NOTE

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

LEGAL DESCRIPTION

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

FILE NAME: 03 G1.DWG



EARTHWORK

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

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

GEOTECHNICAL

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

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

GRADING NOTES

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

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

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

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

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

FLOOD ZONE

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

GRADING CERTIFICATION

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

ROBERT D. CUNNINGHAM, P.E. DATE

LEGAL DESCRIPTION

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

BENCHMARK

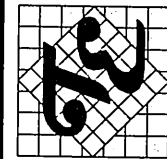
PROJECT VERTICAL DATUM: NAVD88
CITY OF LAS VEGAS BENCHMARK 1LV09-1W6
NAVD88 ELEV: 895.0800M 2936.55 FT
RIVET AND PLATE IN TOP OF CURB AT NORTHEAST CORNER OF CLIFF SHADOWS AND DIEGOVILLE.

BASIS OF BEARINGS

SOUTH 87°47'07" WEST, BEING THE BEARING OF THE SOUTH LINE OF THE NORTHWEST QUARTER (NW1/4) OF THE SOUTHWEST QUARTER (SW1/4) OF SECTION 1, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY NEVADA, AS SHOWN BY MAP THEREOF ON FILE IN BOOK 115, PAGE 87 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

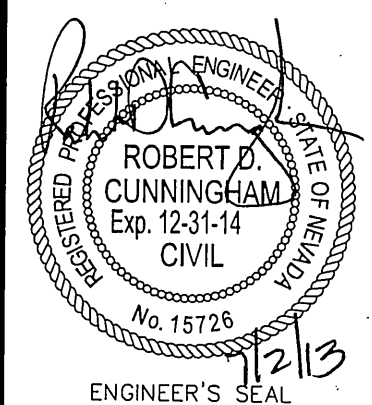
THM ENTERPRISE LLC
10655 PARK RUN DRIVE SUITE #220
LAS VEGAS, NV 89144
(702) 853-6520 FAX: —

TANEY F
ENGINEERING
600 S. JONES BLVD. SUITE 100
LAS VEGAS, NV 89118
(702) 362-8944 FAX: (702) 362-5233



PEACEFUL RIDGE - PHASE 1
LOVE MOUNTAIN & PULI
A RESIDENTIAL SUBDIVISION

GRADING PLAN KEY MAP



DATE: 7/2/2013
SCALE: 1"=120'
JOB NO: AST-12-002
DESIGNED BY: SF
CHECKED BY: MC
SHEET NAME: G1
SHEET: 03 OF 22
CLV 0000000



MATCHLINE - SEE SHEET G2

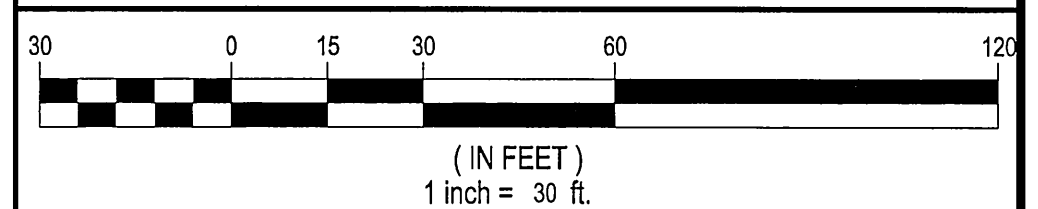


MATCHLINE - SEE SHEET G5

CONSTRUCTION NOTES

- 24" L-TYPE CURB & GUTTER (USD #216)
- 4.0' SIDEWALK (USD #234)
- 8.0' CROSS GUTTER (USD #228)
- 5.0' SIDEWALK (USD #234)
- AC PAVEMENT OVER TYPE II (PER GEOTECHNICAL REPORT)
- SAWCUT & MATCH EXISTING AC PAVEMENT
- SIDEWALK RAMP USING ARMOR TILE TRUNCATED DOMES OR EQUIVALENT (USD #235)
- RESIDENTIAL DRIVEWAY (USD #223)
- SIDEWALK UNDERDRAIN (USD #236)
- 10' MEANDERING SIDEWALK (USD #234)
- 3.0' CONCRETE FLUME (SEE DETAIL AA/GD2)
- A-TYPE CURB (USD #219)
- INSTALL WROUGHT IRON FENCE AND ACCESS GATE
- 5.0' CONCRETE FLUME (SEE DETAIL BB/GD1)
- RIPRAP: D50=12", THICKNESS=24" (SEE DETAIL AAA/GD4)
- 2.0' CURB OPENING (SEE DETAIL RR/GD2)
- 8' X 4' BUBBLER STRUCTURE W/ (2) 4' X 4' GRATES (SEE DETAIL ZZ/GD4)
- 24' X 16' BLOCK WALL OPENING (SEE DETAIL CCC/GD2)
- GROUTED RIPRAP: D50=18", THICKNESS=36"
- NDOT HEADWALL (SEE DETAIL YY/GD4)
- 4" COMPACTED TYPE II AGGREGATE
- INSTALL REMOVABLE LOCKING BOLLARDS (SEE DETAIL GGG/GD3)

SCALE



EARTHWORK

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

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

GEOTECHNICAL

GEOTEK RESIDENTIAL, LLC
8835 S. ESCONDIDO ST. STE. B
LAS VEGAS, NEVADA 89119
702-897-1424

REPORT NO: 10944-LVR8
DATE 10/30/2012

GRADING NOTES

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

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

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

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

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

FLOOD ZONE

THIS PROJECT IS LOCATED IN FLOODZONE "X" WHICH IS AN AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN PER FIRM PANEL 320032150E, MAP REVISED SEPTEMBER 27, 2002

GRADING CERTIFICATION

I CERTIFY THIS GRADING PLAN COMPLIES WITH THE APPROVED DRAINAGE STUDY, DS-4800, ON FILE WITH CITY OF LAS VEGAS FOR THIS PROJECT.

ROBERT D. CUNNINGHAM, P.E.

DATE

LEGAL DESCRIPTION

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

BENCHMARK

PROJECT VERTICAL DATUM: NAVD88
CITY OF LAS VEGAS BENCHMARK 11V09-1W6
NAVD88 ELEV. 895.0609M 2936.55 FT
RIVET AND PLATE IN TOP OF CURB AT NORTHEAST CORNER OF CLIFF SHADOWS AND DIEGOVILLE.

BASIS OF BEARINGS

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

STORM DRAIN DROP INLET NOTE

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

PRIVATE STREETS NOTE

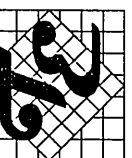
ALL PRIVATE STREETS ARE P.U.E., PUBLIC SEWER EASEMENTS AND PUBLIC DRAINAGE EASEMENTS TO BE PRIVATELY MAINTAINED BY THE HOA.

DRAINAGE EASEMENT NOTE

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

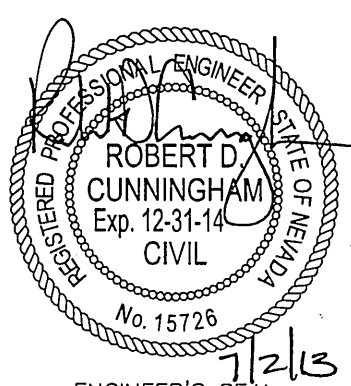
THM ENTERPRISE LLC
10655 PARK RUN DRIVE SUITE #200
LAS VEGAS, NV 89144
(702) 955-5520 FAX

TANNEY ENGINEERING
6005 W. LAS VEGAS BLVD. SUITE 100
LAS VEGAS, NV 89118
(702) 955-5520 FAX



PEACEFUL RIDGE - PHASE 1
LONE MOUNTAIN & PULL
A RESIDENTIAL SUBDIVISION

GRADING PLAN



DATE: 7/2/2013

SCALE: 1"=30'

JOB NO: AST-12-002

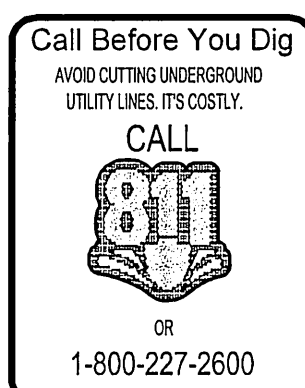
DESIGNED BY: SF

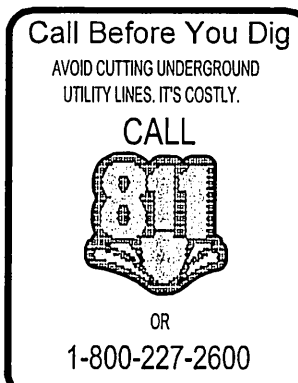
CHECKED BY: MC

SHEET NAME: G3

SHEET: 05 OF 22

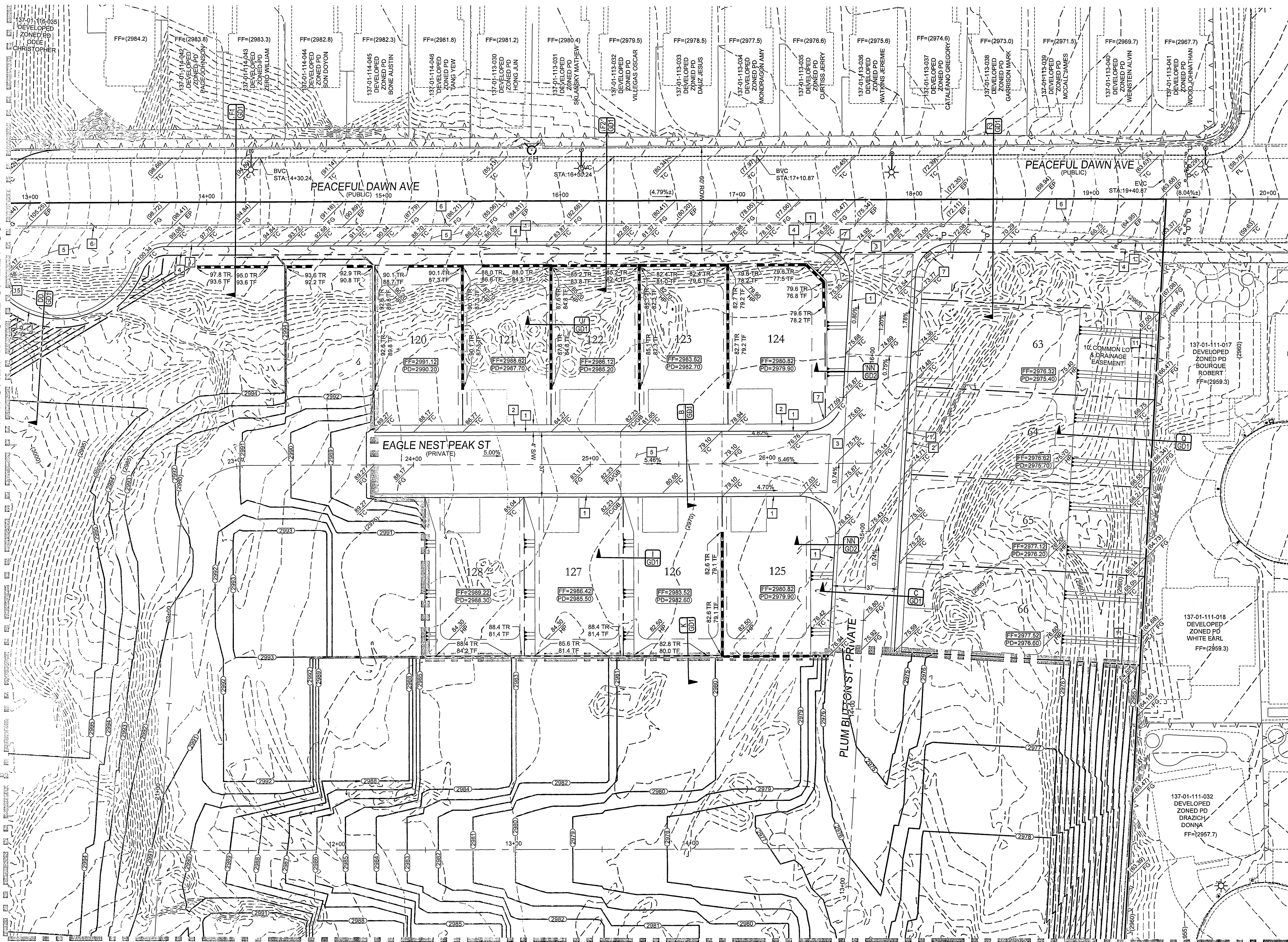
CLV 0000000





MATCHLINE - SEE SHEET G3

MATCHLINE - SEE SHEET G5



MATCHLINE - SEE SHEET G5

STORM DRAIN DROP INLET NOTE

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

PRIVATE STREETS NOTE

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

DRAINAGE EASEMENT NOTE

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

LEGAL DESCRIPTION

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

BENCHMARK

PROJECT VERTICAL DATUM: NAVD88
CITY OF LAS VEGAS BENCHMARK 1LV09-1W6
NAVD88 ELEV: 865.0000M 2336.55 FT
RIVET AND PLATE IN TOP OF CURB AT NORTHEAST CORNER OF CLIFF SHADOWS AND DIEGOVILLE.

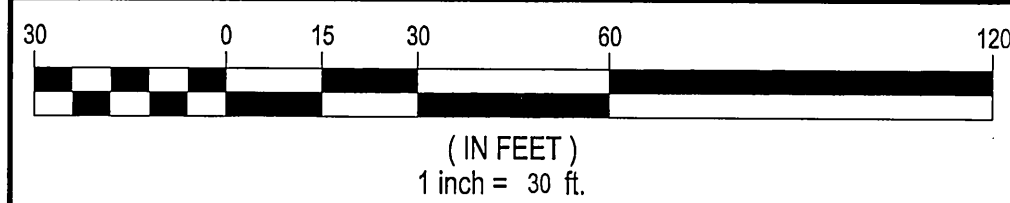
BASIS OF BEARINGS

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

CONSTRUCTION NOTES

- 24" L-TYPE CURB & GUTTER (USD #216)
- 4.0' SIDEWALK (USD #234)
- 8.0' CROSS GUTTER (USD #228)
- 5.0' SIDEWALK (USD #234)
- AC PAVEMENT OVER TYPE II (PER GEOTECHNICAL REPORT)
- SAWCUT & MATCH EXISTING AC PAVEMENT
- SIDEWALK RAMP USING ARMOR TILE TRUNCATED DOMES OR EQUIVALENT (USD #235)
- RESIDENTIAL DRIVEWAY (USD #223)
- SIDEWALK UNDERDRAIN (USD #236)
- 10' MEANDERING SIDEWALK (USD #234)
- 3.0' CONCRETE FLUME (SEE DETAIL AA/GD2)
- A-TYPE CURB (USD #219)
- INSTALL WROUGHT IRON FENCE AND ACCESS GATE
- 5.0' CONCRETE FLUME (SEE DETAIL BB/GD1)
- RIPRAP: D50=12", THICKNESS=24" (SEE DETAIL AAA/GD4)
- 2.0' CURB OPENING (SEE DETAIL RR/GD2)
- 8" X 4" BUBBLER STRUCTURE W/ (2) 4" X 4" GRATES (SEE DETAIL ZZ/GD4)
- 24" X 16" BLOCK WALL OPENING (SEE DETAIL CCC/GD2)
- GROUTED RIPRAP: D50=18", THICKNESS=36"
- NOOT HEADWALL (SEE DETAIL YY/GD4)
- 4" COMPACTED TYPE II AGGREGATE
- INSTALL REMOVABLE LOCKING BOLLARDS (SEE DETAIL GGG/GD3)

SCALE



EARTHWORK

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

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

GEOTECHNICAL

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

REPORT NO: 10844-LVR6
DATE 10/30/2012

GRADING NOTES

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

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

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

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

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

FLOOD ZONE

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

GRADING CERTIFICATION

I CERTIFY THIS GRADING PLAN COMPLIES WITH THE APPROVED DRAINAGE STUDY, DS-4800, ON FILE WITH CITY OF LAS VEGAS FOR THIS PROJECT.

ROBERT D. CUNNINGHAM, P.E.

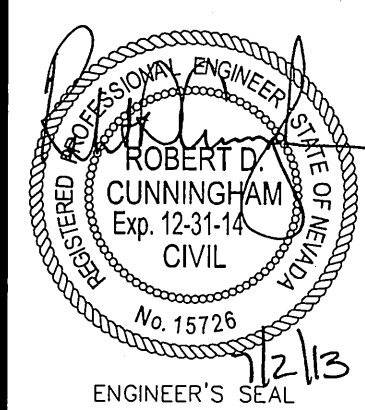
DATE

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

TANEY ENGINEERING
6630 S. JONES ROAD STEF 100
LAS VEGAS, NV 89144
(702) 362-8844 FAX: (702) 362-8233

PEACEFUL RIDGE - PHASE 1
LONE MOUNTAIN & PULI
A RESIDENTIAL SUBDIVISION

GRADING PLAN



DATE: 7/2/2013

SCALE: 1"=30'

JOB NO: AST-12-002

DESIGNED BY: SF

CHECKED BY: MC

SHEET NAME:

SHEET: G4

06 OF 22

CLV 0000000

REVISIONS

NO.

DESCRIPTION

SHTS.

APPR.

DATE

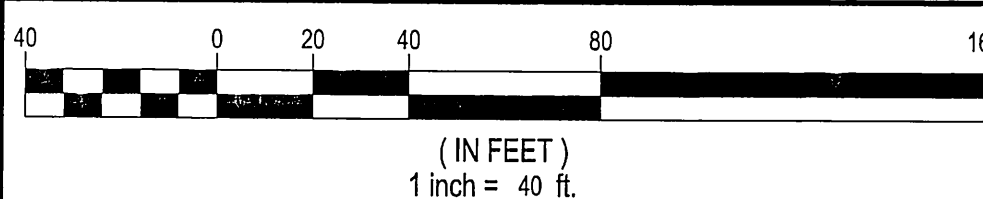
MATCHLINE - SEE SHEET G3

MATCHLINE - SEE SHEET G4



MATCHLINE - SEE SHEET G6

SCALE



STORM DRAIN DROP INLET NOTE

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

PRIVATE STREETS NOTE

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

DRAINAGE EASEMENT NOTE

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

GEOTECHNICAL

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

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

EARTHWORK

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

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

LEGAL DESCRIPTION

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

BENCHMARK

PROJECT VERTICAL DATUM: NAVD83
CITY OF LAS VEGAS BENCHMARK 11V09-1W6
NAVD83 ELEV: 895.0609M 2936.55 FT
RIVET AND PLATE IN TOP OF CURB AT NORTHEAST
CORNER OF CLIFF SHADOWS AND DIEGOVILLE.

BASIS OF BEARINGS

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

GRADING NOTES

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

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

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

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

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

FLOOD ZONE

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

GRADING CERTIFICATION

I CERTIFY THIS GRADING PLAN COMPLIES WITH THE APPROVED DRAINAGE STUDY, DS-4800, ON FILE WITH CITY OF LAS VEGAS FOR THIS PROJECT.

ROBERT D. CUNNINGHAM, P.E.

DATE

CONSTRUCTION NOTES

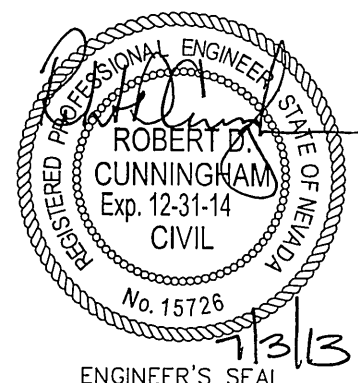
- 1 24" L-TYPE CURB & GUTTER (USD #216)
- 2 4.0" SIDEWALK (USD #234)
- 3 8.0" CROSS GUTTER (USD #228)
- 4 5.0" SIDEWALK (USD #234)
- 5 AC PAVEMENT OVER TYPE II (PER GEOTECHNICAL REPORT)
- 6 SAWCUT & MATCH EXISTING AC PAVEMENT
- 7 SIDEWALK RAMP USING ARMOR TILE TRUNCATED DOMES OR EQUIVALENT (USD #235)
- 8 RESIDENTIAL DRIVEWAY (USD #223)
- 9 SIDEWALK UNDERDRAIN (USD #236)
- 10 10" MEANDERING SIDEWALK (USD #234)
- 11 3.0" CONCRETE FLUME (SEE DETAIL AA/GD2)
- 12 A-TYPE CURB (USD #219)
- 13 INSTALL WROUGHT IRON FENCE AND ACCESS GATE
- 14 5.0" CONCRETE FLUME (SEE DETAIL BB/GD1)
- 15 RIPRAP: D50=12", THICKNESS=24" (SEE DETAIL AAA/GD4)
- 16 2.0" CURB OPENING (SEE DETAIL RR/GD2)
- 17 8' X 4' BUBBLER STRUCTURE W/ (2) 4' X 4' GRATES (SEE DETAIL ZZ/GD4)
- 18 24" X 16" BLOCK WALL OPENING (SEE DETAIL CCC/GD2)
- 19 GROUTED RIPRAP: D50=18", THICKNESS=36"
- 20 NDOT HEADWALL (SEE DETAIL YY/GD4)
- 21 4" COMPACTED TYPE II AGGREGATE
- 22 INSTALL REMOVABLE LOCKING BOLLARDS (SEE DETAIL GGG/GD3)

THM ENTERPRISE LLC
10655 PARK RUN DRIVE SUITE #200
LAS VEGAS, NV 89144
(702) 853-6320 FAX: ---

TANEY ENGINEERING
6835 S. ESCONCADO ST. STE. B
LAS VEGAS, NV 89119
(702) 853-6320 FAX: (702) 382-5233

PEACEFUL RIDGE - PHASE 1
LONE MOUNTAIN & PULI
A RESIDENTIAL SUBDIVISION

GRADING PLAN



DATE: 7/3/2013

SCALE: 1"=40'

JOB NO: AST-12-002

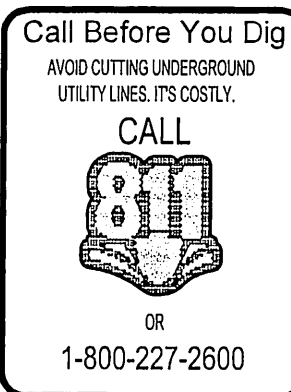
DESIGNED BY: SF

CHECKED BY: MC

SHEET NAME: G5

SHEET: 07 OF 22

CLV 0000000



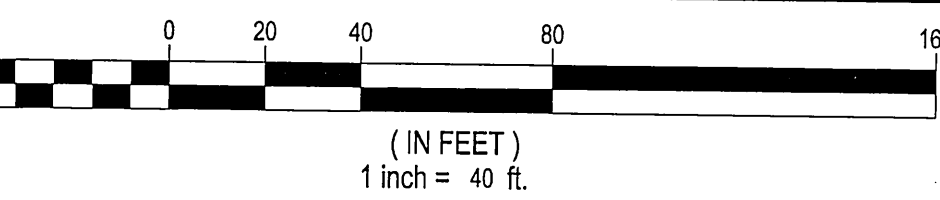
MATCHLINE - SEE SHEET G5

MATCHLINE - SEE SHEET G7

CONSTRUCTION NOTES

1. 24" L-TYPE CURB & GUTTER (USD #216)
2. 4" SIDEWALK (USD #234)
3. 8" CROSS GUTTER (USD #228)
4. 5" SIDEWALK (USD #234)
5. AC PAVEMENT OVER TYPE II (PER GEOTECHNICAL REPORT)
6. SAWCUT & MATCH EXISTING AC PAVEMENT
7. SIDEWALK RAMP USING ARMOR TILE TRUNCATED DOMES OR EQUIVALENT (USD #235)
8. RESIDENTIAL DRIVEWAY (USD #223)
9. SIDEWALK UNDERDRAIN (USD #236)
10. 10' MEANDERING SIDEWALK (USD #234)
11. 3' CONCRETE FLUME (SEE DETAIL AA/GD2)
12. A-TYPE CURB (USD #219)
13. INSTALL WROUGHT IRON FENCE AND ACCESS GATE
14. 5" CONCRETE FLUME (SEE DETAIL BB/GD1)
15. RIPRAP: D50=12", THICKNESS=24" (SEE DETAIL AAA/GD4)
16. 2' CURB OPENING (SEE DETAIL RR/GD2)
17. 8' X 4' BUBBLER STRUCTURE W/ (2) 4' X 4' GRATES (SEE DETAIL ZZ/GD4)
18. 24" X 16" BLOCK WALL OPENING (SEE DETAIL CCC/GD2)
19. GROUDED RIPRAP: D50=18", THICKNESS=35"
20. NDOT HEADWALL (SEE DETAIL YY/GD4)
21. 4" COMPACTED TYPE II AGGREGATE
22. INSTALL REMOVABLE LOCKING BOLLARDS (SEE DETAIL GGG/GD3)

SCALE



EARTHWORK

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

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

GEOTECHNICAL

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

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

GRADING NOTES

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

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

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

FLOOD ZONE

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

GRADING CERTIFICATION

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

ROBERT D. CUNNINGHAM, P.E.

DATE

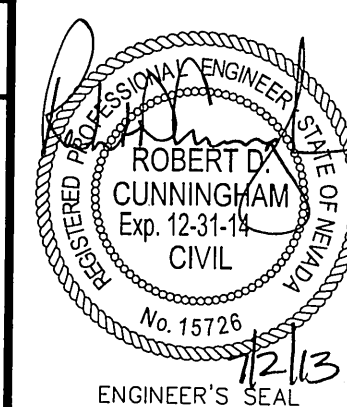
THM ENTERPRISE LLC
10655 PARK RUN DRIVE SUITE #220
LAS VEGAS, NV 89144
(702) 854-5520 FAX: (702) 362-5233

TANY E
ENGINEERING
600 S. 10TH ST. STEP 100
LAS VEGAS, NV 89144
(702) 854-5520 FAX: (702) 362-5233



PEACEFUL RIDGE - PHASE 1
LONE MOUNTAIN & PULI
A RESIDENTIAL SUBDIVISION

GRADING PLAN



DATE: 7/2/2013

SCALE: 1"=40'

JOB NO: AST-12-002

DESIGNED BY: SF

CHECKED BY: MC

SHEET NAME: G6

SHEET: 08 OF 22

CLV 0000000

STORM DRAIN DROP INLET NOTE

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

PRIVATE STREETS NOTE

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

DRAINAGE EASEMENT NOTE

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

LEGAL DESCRIPTION

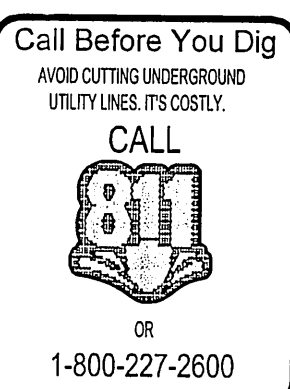
APN #: 137-01-101-001, 009, 010, 011,
137-01-201-001, 002, 003, 011,
012, 137-01-301-001, & 002

BENCHMARK

PROJECT VERTICAL DATUM: NAVD88
CITY OF LAS VEGAS BENCHMARK 11V09-1W6
NAVD88 ELEV. 895.000M/2936.55 FT
RIVET AND PLATE IN TOP OF CURB AT NORTHEAST CORNER OF CLIFF SHADOWS AND DIEGOVILLE.

BASIS OF BEARINGS

SOUTH 87°47'07" WEST, BEING THE BEARING OF THE SOUTH LINE OF THE NORTHWEST QUARTER (NW1/4) OF THE SOUTHWEST QUARTER (SW1/4) OF SECTION 1, TOWNSHIP 20 SOUTH, RANGE 50 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY NEVADA, AS SHOWN BY MAP THEREOF ON FILE IN BOOK 113, PAGE 87 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.



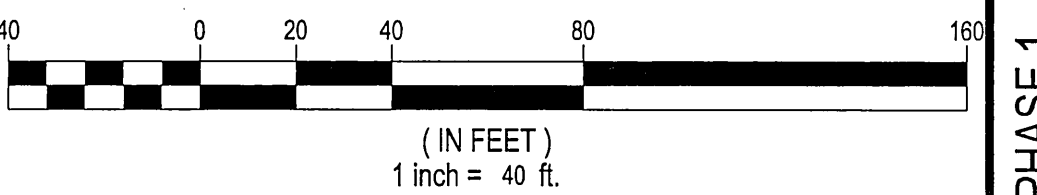
MATCHLINE - SEE SHEET G6

MATCHLINE - SEE SHEET G8

CONSTRUCTION NOTES

- 24" L-TYPE CURB & GUTTER (USD #216)
- 4.0" SIDEWALK (USD #234)
- 8.0" CROSS GUTTER (USD #228)
- 5.0" SIDEWALK (USD #234)
- AC PAVEMENT OVER TYPE II (PER GEOTECHNICAL REPORT)
- SAWCUT & MATCH EXISTING AC PAVEMENT
- SIDEWALK RAMP USING ARMOR TILE TRUNCATED DOMES OR EQUIVALENT (USD #235)
- RESIDENTIAL DRIVEWAY (USD #223)
- SIDEWALK UNDERDRAIN (USD #236)
- 10' MEANDERING SIDEWALK (USD #234)
- 3.0" CONCRETE FLUME (SEE DETAIL AA/GD2)
- A-TYPE CURB (USD #219)
- INSTALL WROUGHT IRON FENCE AND ACCESS GATE
- 5.0" CONCRETE FLUME (SEE DETAIL BB/GD1)
- RIPRAP: D50=12", THICKNESS=24" (SEE DETAIL AAA/GD4)
- 2.0' CURB OPENING (SEE DETAIL RR/GD2)
- 8" X 4" BUBBLER STRUCTURE W/ (2) 4" X 4" GRATES (SEE DETAIL ZZ/GD4)
- 24" X 16" BLOCK WALL OPENING (SEE DETAIL CCC/GD2)
- GROUTED RIPRAP: D50=18", THICKNESS=36"
- NOOT HEADWALL (SEE DETAIL YY/GD4)
- 4" COMPACTED TYPE II AGGREGATE
- INSTALL REMOVABLE LOCKING BOLLARDS (SEE DETAIL GGG/GD3)

SCALE



EARTHWORK

TOTAL FOR OVERALL DEVELOPMENT: 294,814 CY CUT
278,864 CY FILL

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

GEOTECHNICAL

GEOTEK RESIDENTIAL, LLC
8535 S. ESCONCIDO ST. STE. B
LAS VEGAS, NEVADA 89119
702-897-1424

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

GRADING NOTES

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

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

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FLOOD ZONE

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GRADING CERTIFICATION

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

ROBERT D. CUNNINGHAM, P.E.

DATE

REVISIONS

NO.	DESCRIPTION	SHTS.	APPR.	DATE

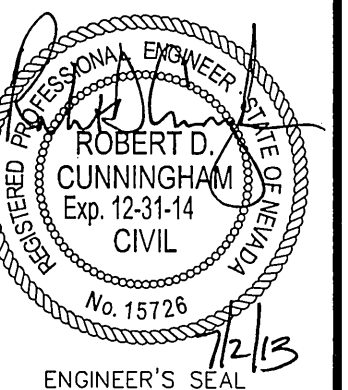
THM ENTERPRISE LLC
10655 PARK RUN DRIVE SUITE #230
LAS VEGAS, NV 89144
(702) 853-5320 FAX: ---

TANEY ENGINEERING
6030 S. LAS VEGAS BLVD. SUITE 100
LAS VEGAS, NV 89118
(702) 852-8844 FAX: (702) 382-5233



PEACEFUL RIDGE - PHASE 1
LONE MOUNTAIN & PUJI
A RESIDENTIAL SUBDIVISION

GRADING PLAN



DATE:	7/2/2013
SCALE:	1"=40'
JOB NO:	AST-12-002
DESIGNED BY:	SF
CHECKED BY:	MC
SHEET NAME:	G7
SHEET:	09 OF 22
CLV	0000000

STORM DRAIN DROP INLET NOTE

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

PRIVATE STREETS NOTE

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DRAINAGE EASEMENT NOTE

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

LEGAL DESCRIPTION

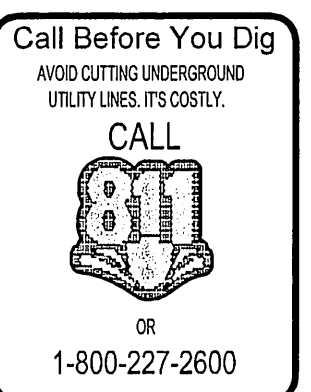
APN #: 137-01-101-001, 009, 010, 011,
137-01-201-001, 002, 003, 011,
012, 137-01-301-001, & 002

BENCHMARK

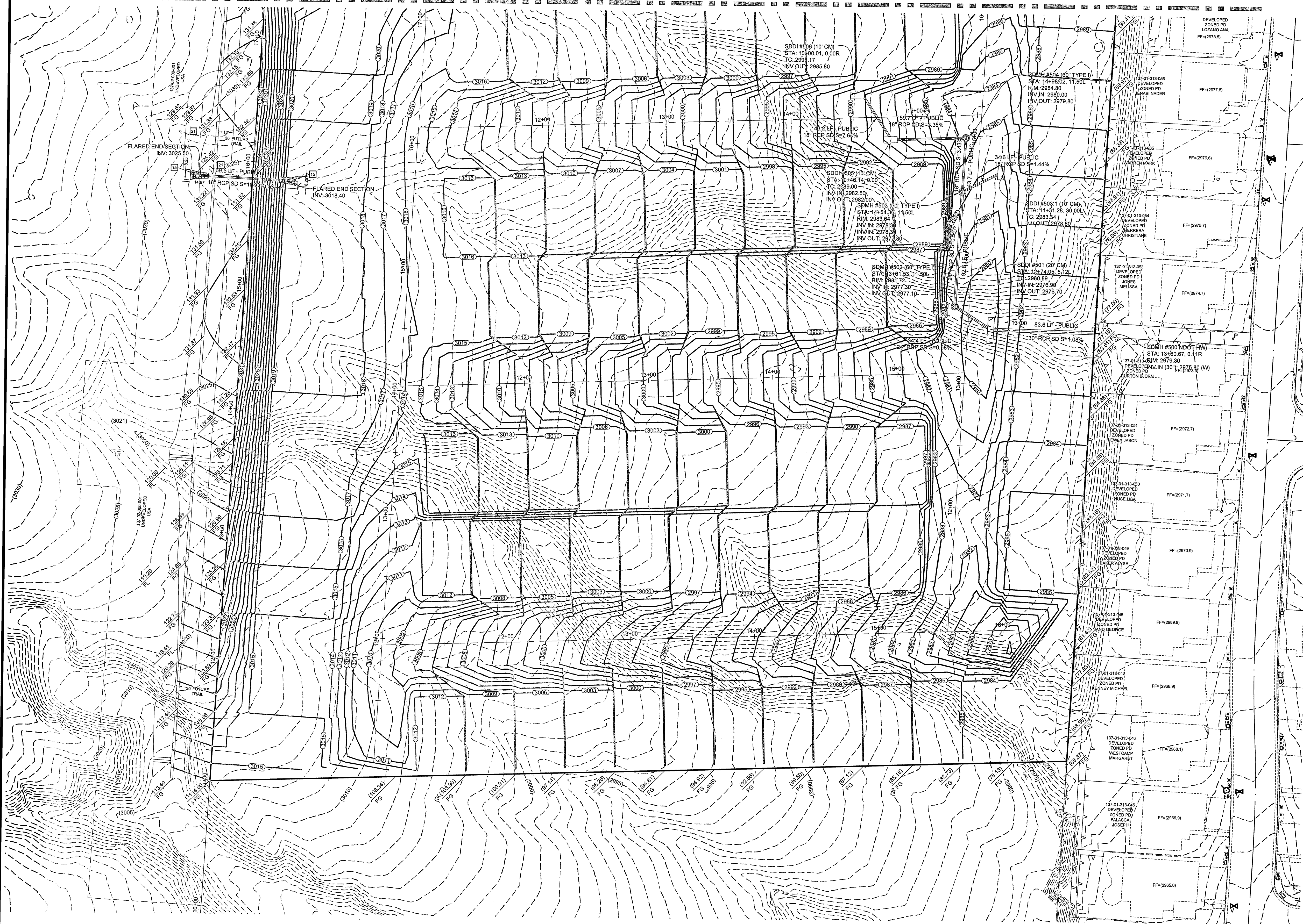
PROJECT VERTICAL DATUM: NAVD88
CITY OF LAS VEGAS BENCHMARK 1LV09-1W6
NAVD88 ELEV: 995.0505M 2935.65 FT
RIVET AND PLATE IN TOP OF CURB AT NORTHEAST CORNER OF CLIFF SHADOWS AND DIEGOVILLE.

BASIS OF BEARINGS

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



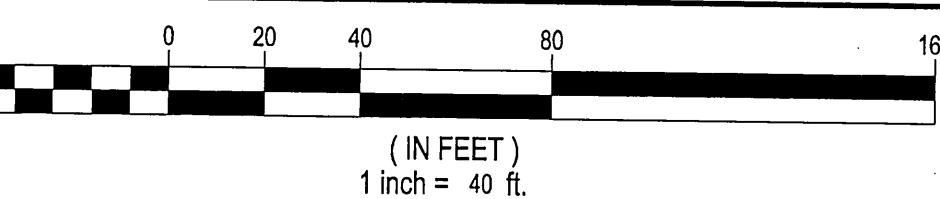
MATCHLINE - SEE SHEET G7



CONSTRUCTION NOTES

1. 24" L-TYPE CURB & GUTTER (USD #216)
2. 4.0' SIDEWALK (USD #234)
3. 8.0' CROSS GUTTER (USD #228)
4. 5.0' SIDEWALK (USD #234)
5. AC PAVEMENT OVER TYPE II (PER GEOTECHNICAL REPORT)
6. SAWCUT & MATCH EXISTING AC PAVEMENT
7. SIDEWALK RAMP USING ARMOR TILE TRUNCATED DOMES OR EQUIVALENT (USD #235)
8. RESIDENTIAL DRIVEWAY (USD #223)
9. SIDEWALK UNDERDRAIN (USD #236)
10. 10' MEANDERING SIDEWALK (USD #234)
11. 3.0' CONCRETE FLUME (SEE DETAIL AA/GD2)
12. A-TYPE CURB (USD #219)
13. INSTALL WROUGHT IRON FENCE AND ACCESS GATE
14. 5.0' CONCRETE FLUME (SEE DETAIL BB/GD1)
15. RIPRAP: D50=12", THICKNESS=24" (SEE DETAIL AAA/GD4)
16. 2.0' CURB OPENING (SEE DETAIL RR/GD2)
17. 8' X 4' BUBBLER STRUCTURE W/ (2) 4' X 4' GRATES (SEE DETAIL ZZ/GD4)
18. 24" X 16" BLOCK WALL OPENING (SEE DETAIL CCC/GD2)
19. GROUTED RIPRAP: D50=18", THICKNESS=36"
20. NDOT HEADWALL (SEE DETAIL YY/GD4)
21. 4" COMPACTED TYPE II AGGREGATE
22. INSTALL REMOVABLE LOCKING BOLLARDS (SEE DETAIL GGG/GD3)

SCALE



EARTHWORK

TOTAL FOR OVERALL DEVELOPMENT: 284,814 CY CUT
278,684 CY FILL

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

GEOTECHNICAL

GEOTEK RESIDENTIAL, LLC
5835 S. ESCONDIDO ST. STE. B
LAS VEGAS, NEVADA 89119
702-897-1424

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

GRADING NOTES

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

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

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

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

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

FLOOD ZONE

THIS PROJECT IS LOCATED IN FLOODZONE "X" WHICH IS AN AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN PER FIRM PANEL 32003C2150E, MAP REVISED SEPTEMBER 27, 2002

GRADING CERTIFICATION

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

ROBERT D. CUNNINGHAM, P.E.

DATE

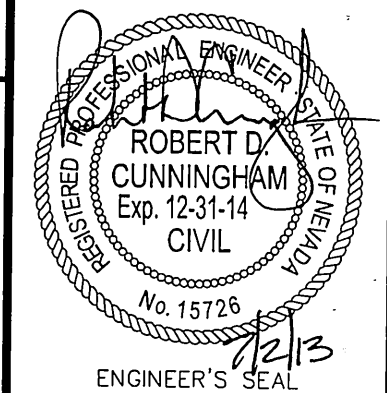
THM ENTERPRISE LLC
10855 PARK RUN DRIVE SUITE #200
LAS VEGAS, NV 89144
(702) 855-5520 FAX: ---



TANEY ENGINEERING
8800 W. LAS VEGAS BLVD. SUITE 100
LAS VEGAS, NV 89148
(702) 855-5520 FAX: (702) 362-5233

PEACEFUL RIDGE - PHASE 1
LONE MOUNTAIN & PULI
A RESIDENTIAL SUBDIVISION

GRADING PLAN



DATE: 7/2/2013

SCALE: 1"=40'

JOB NO: AST-12-002

DESIGNED BY: SF

CHECKED BY: MC

SHEET NAME: G8

SHEET: 10 OF 22

CLV 0000000

STORM DRAIN DROP INLET NOTE

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

PRIVATE STREETS NOTE

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

DRAINAGE EASEMENT NOTE

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

LEGAL DESCRIPTION

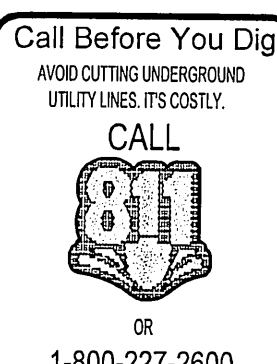
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137-01-201-001, 002, 003, 011,
012, 137-01-301-001, & 002

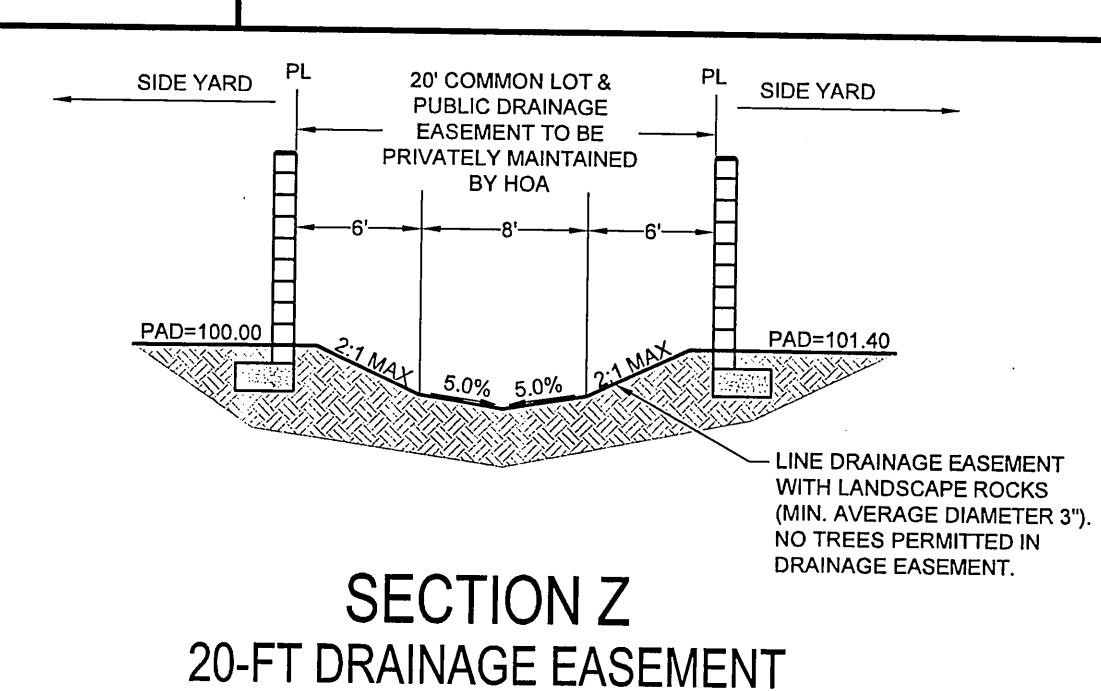
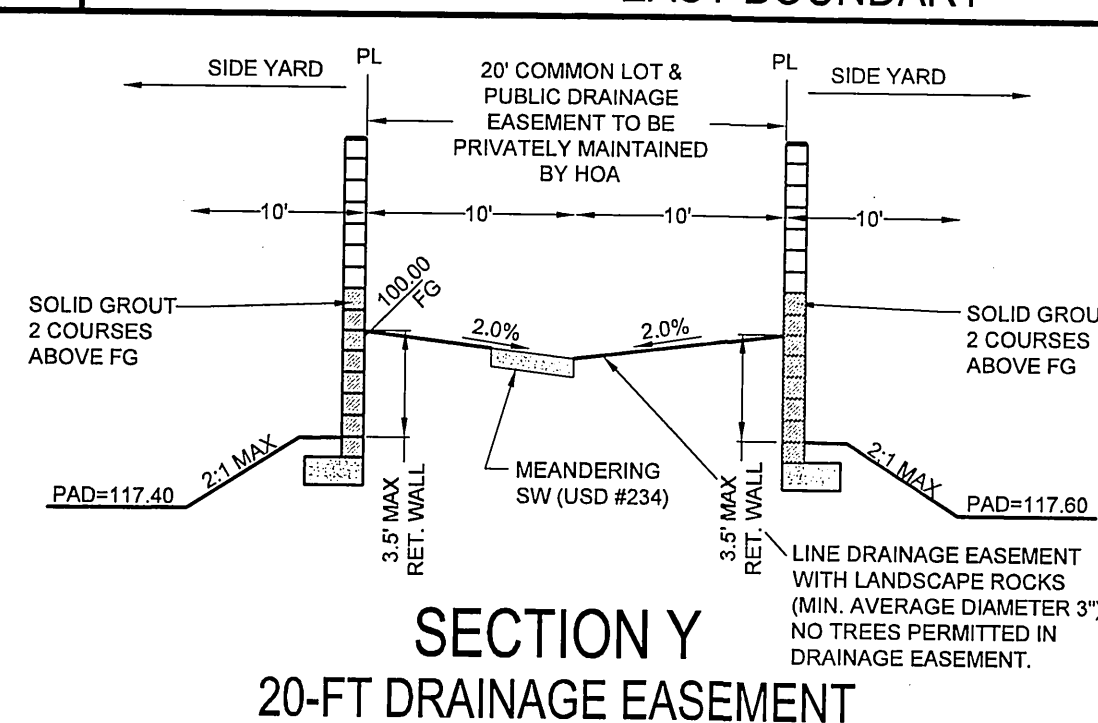
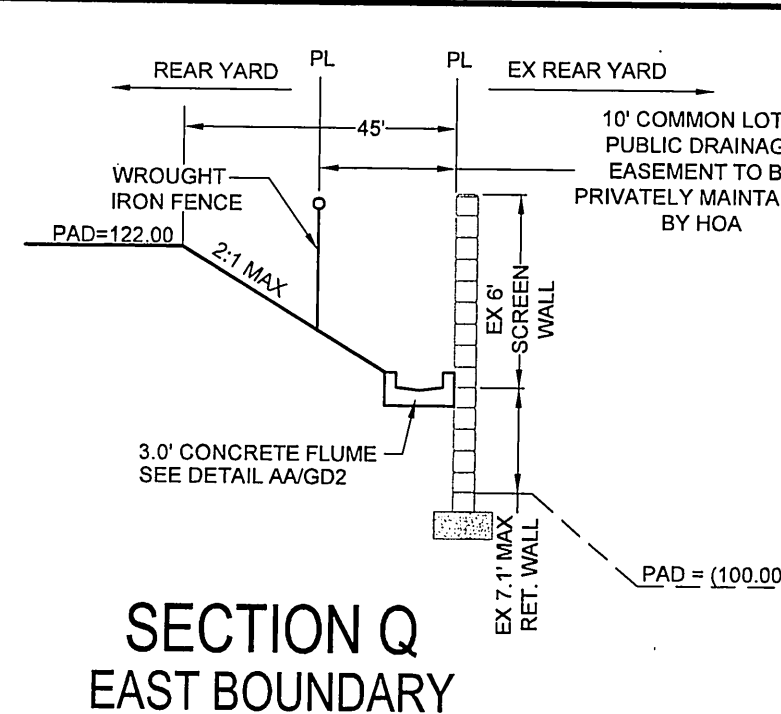
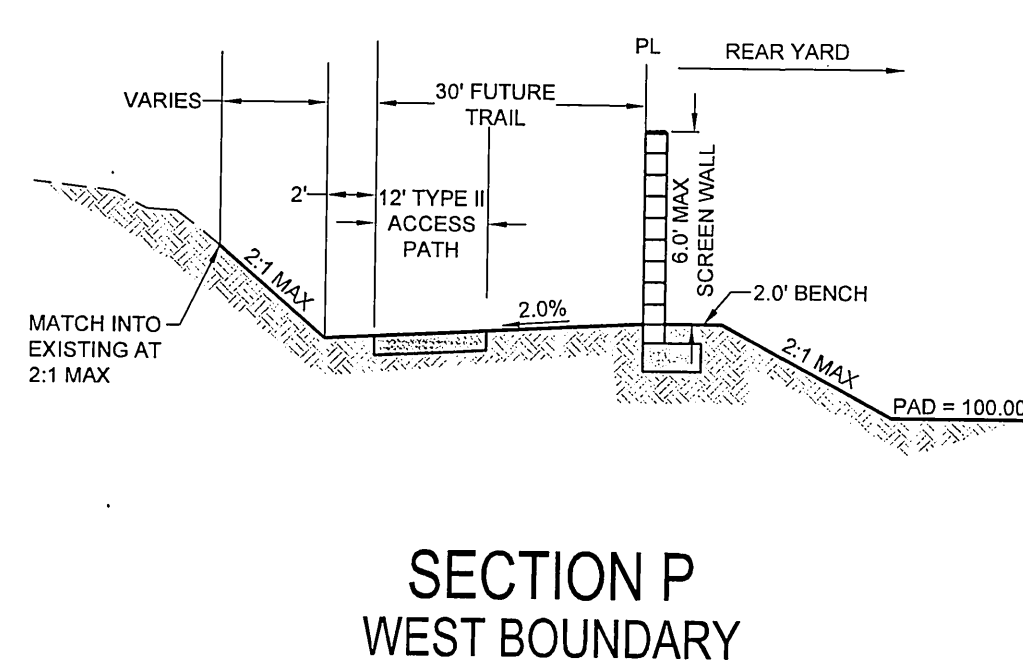
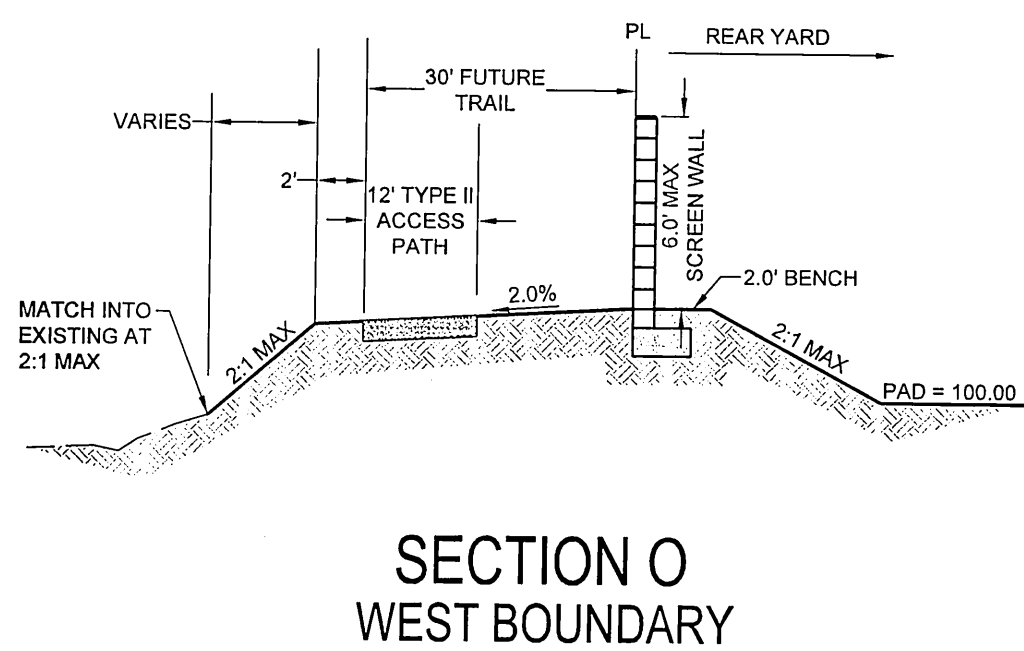
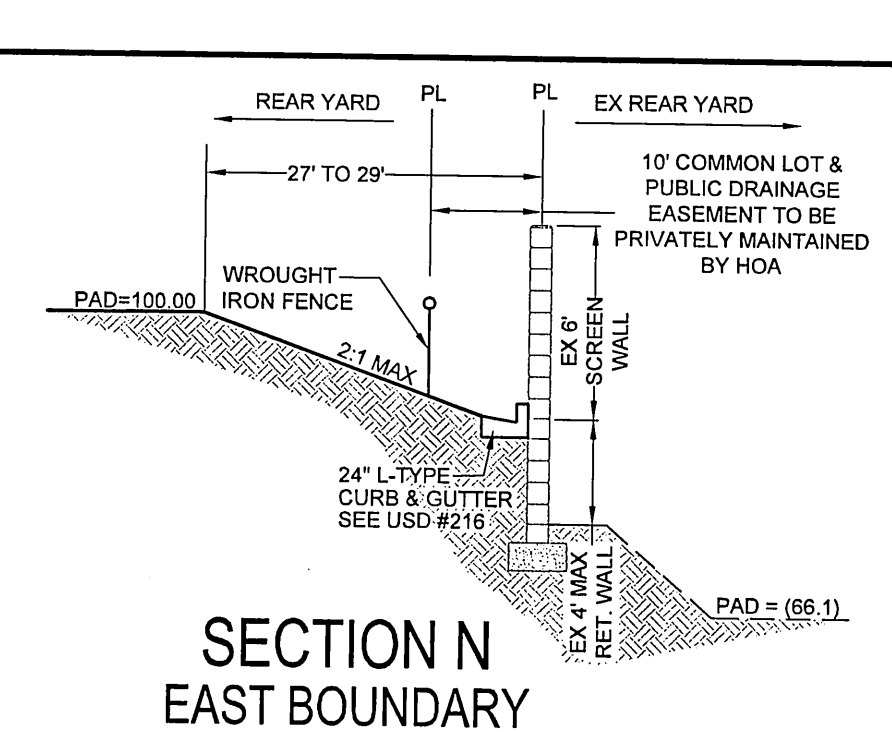
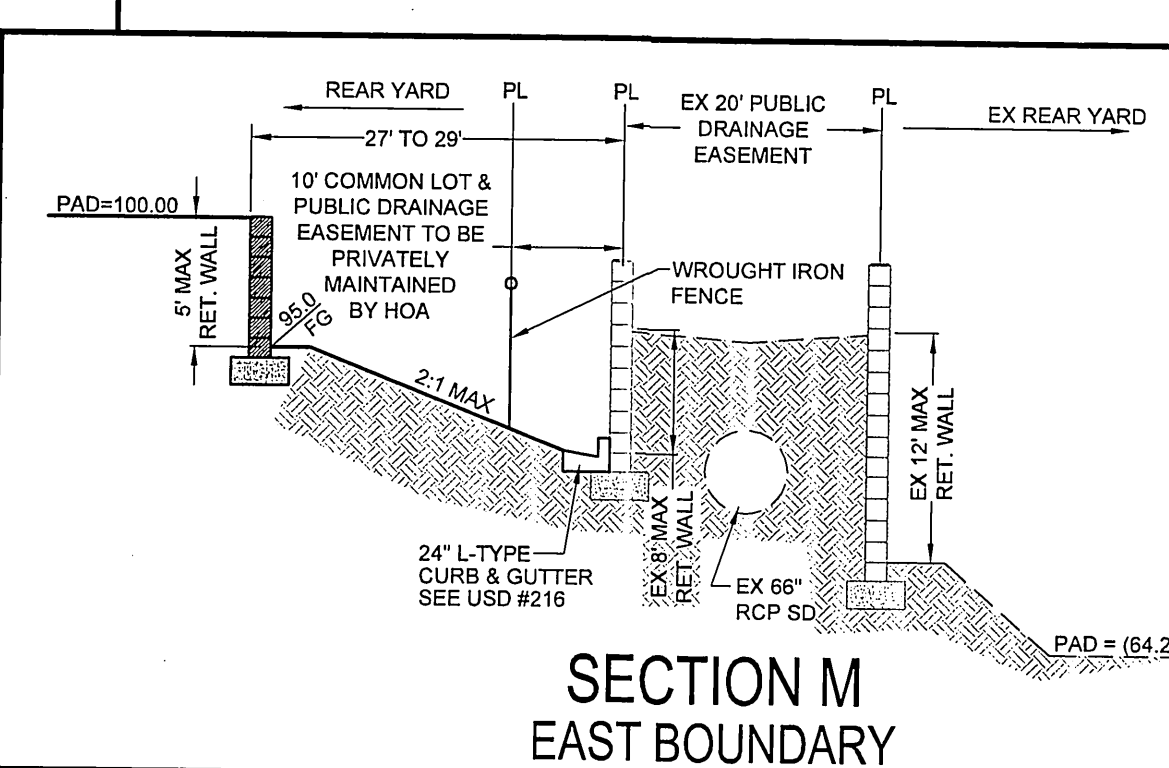
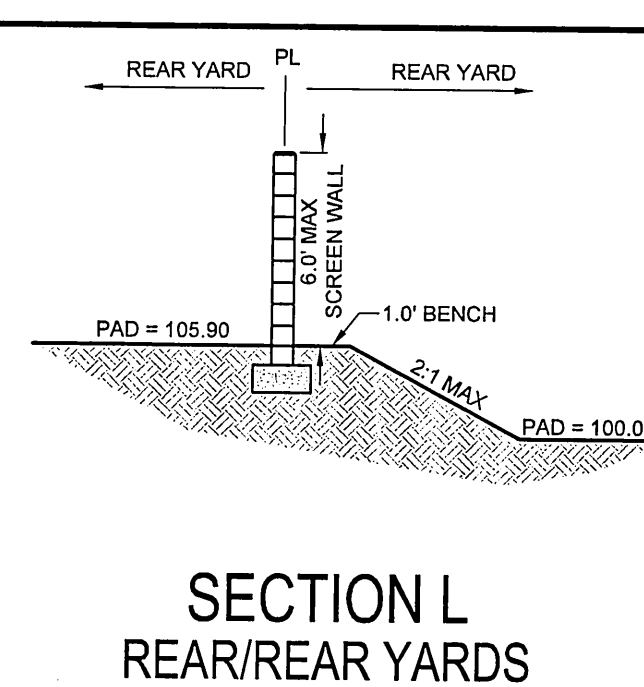
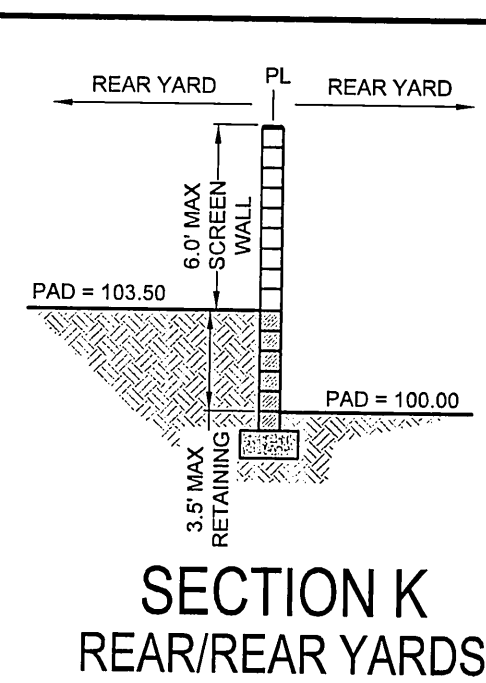
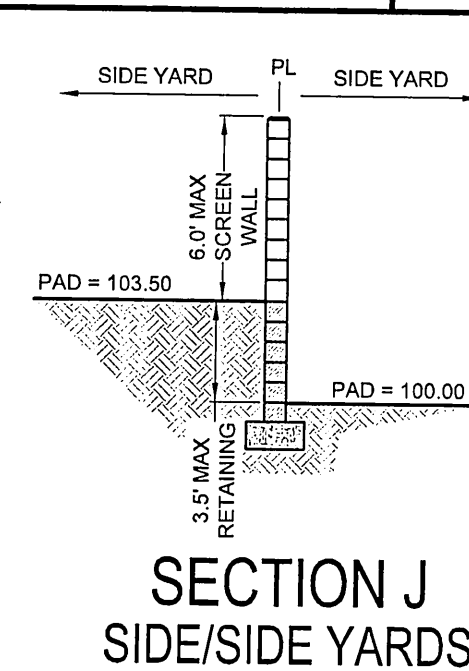
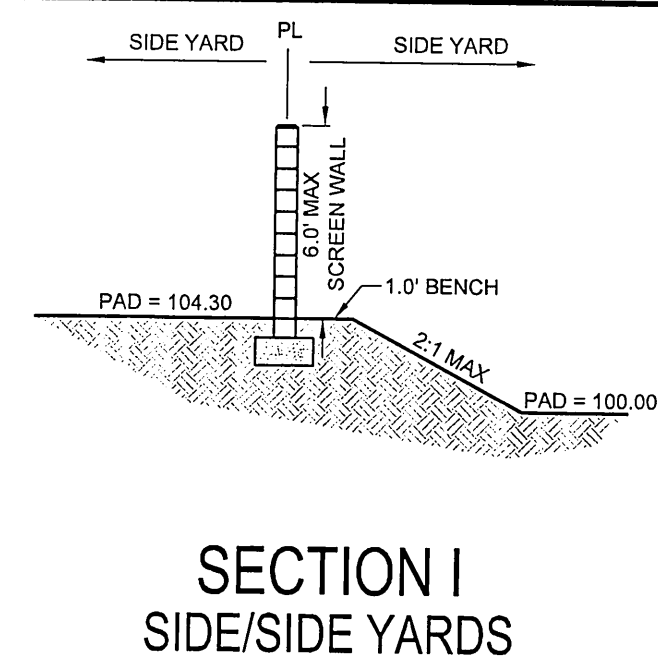
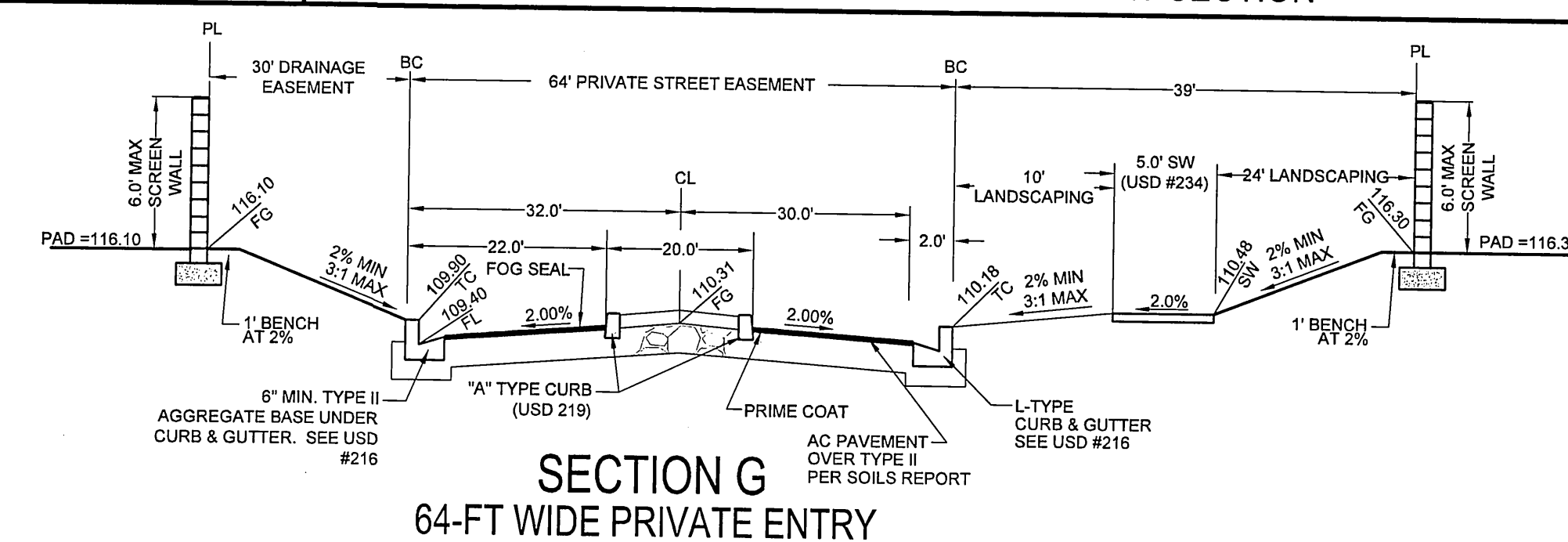
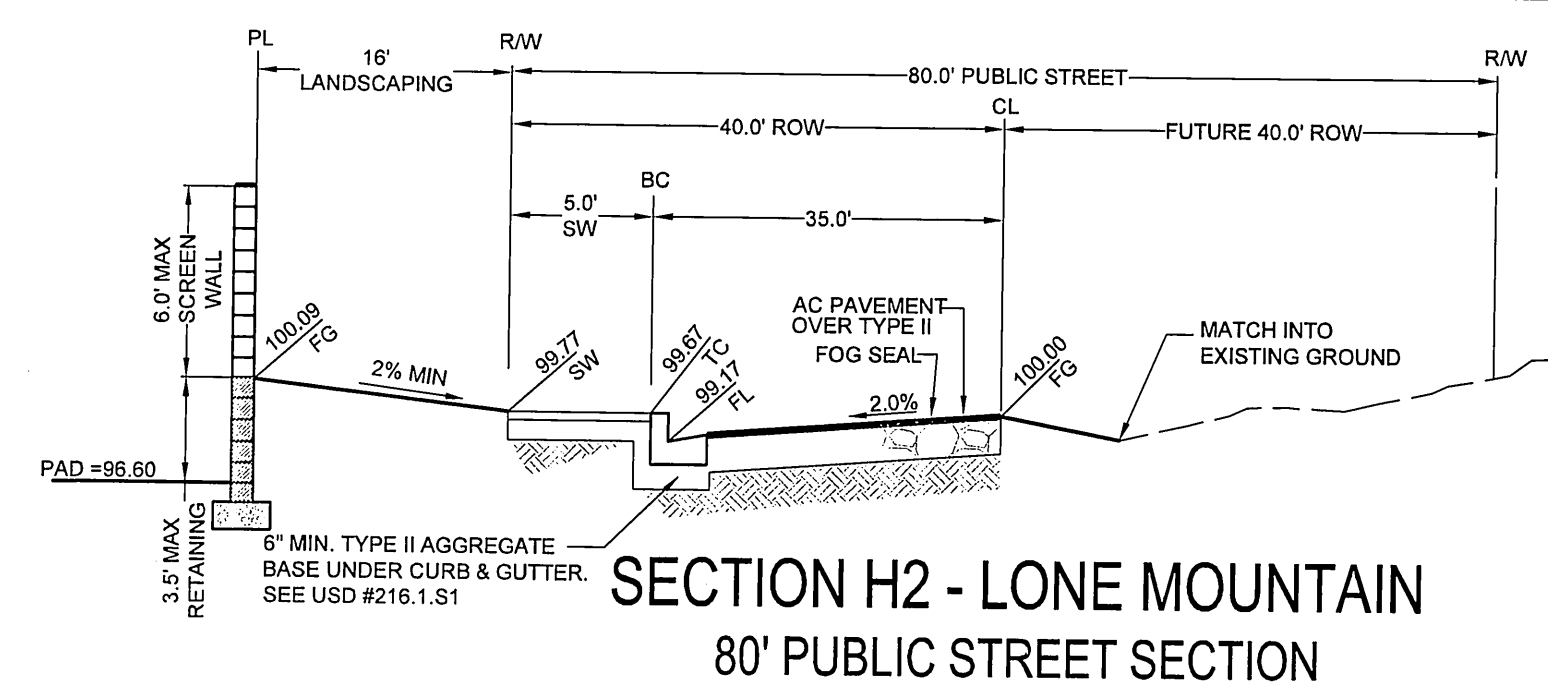
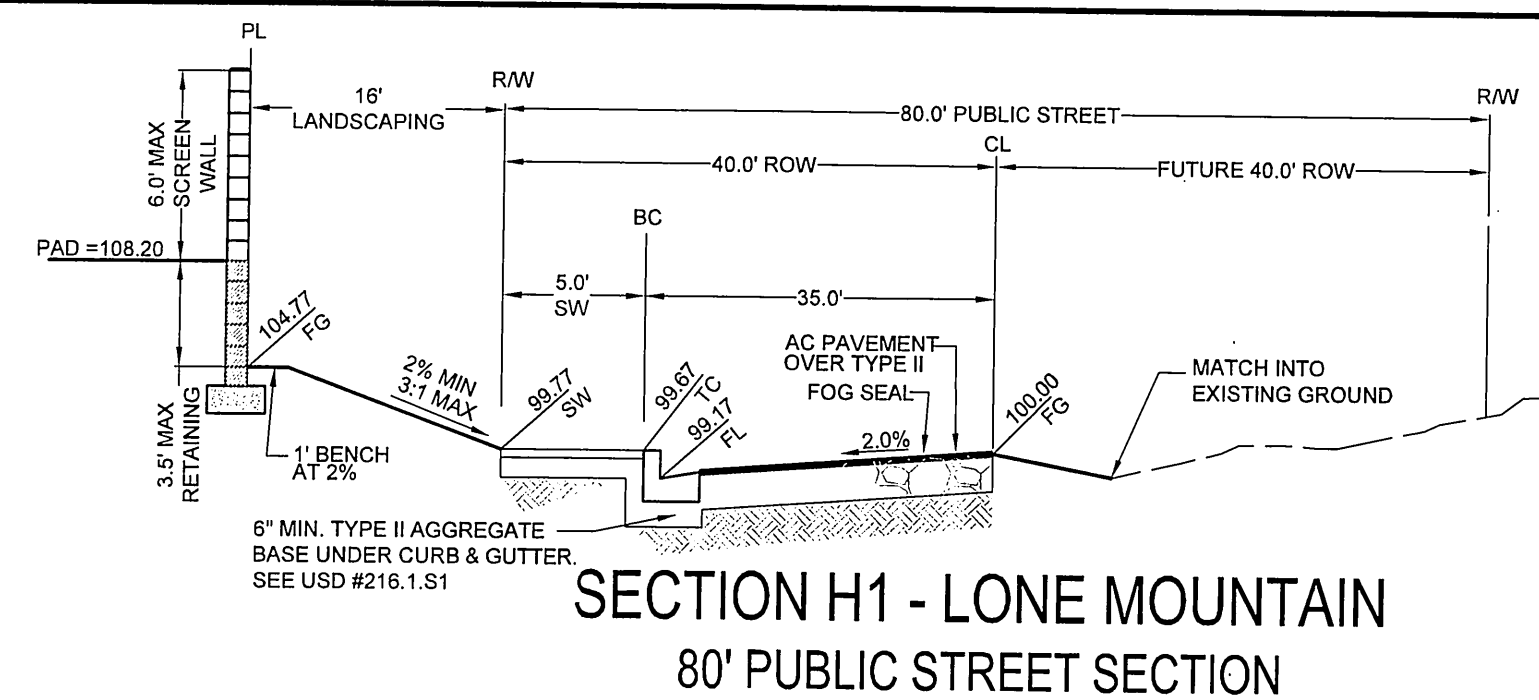
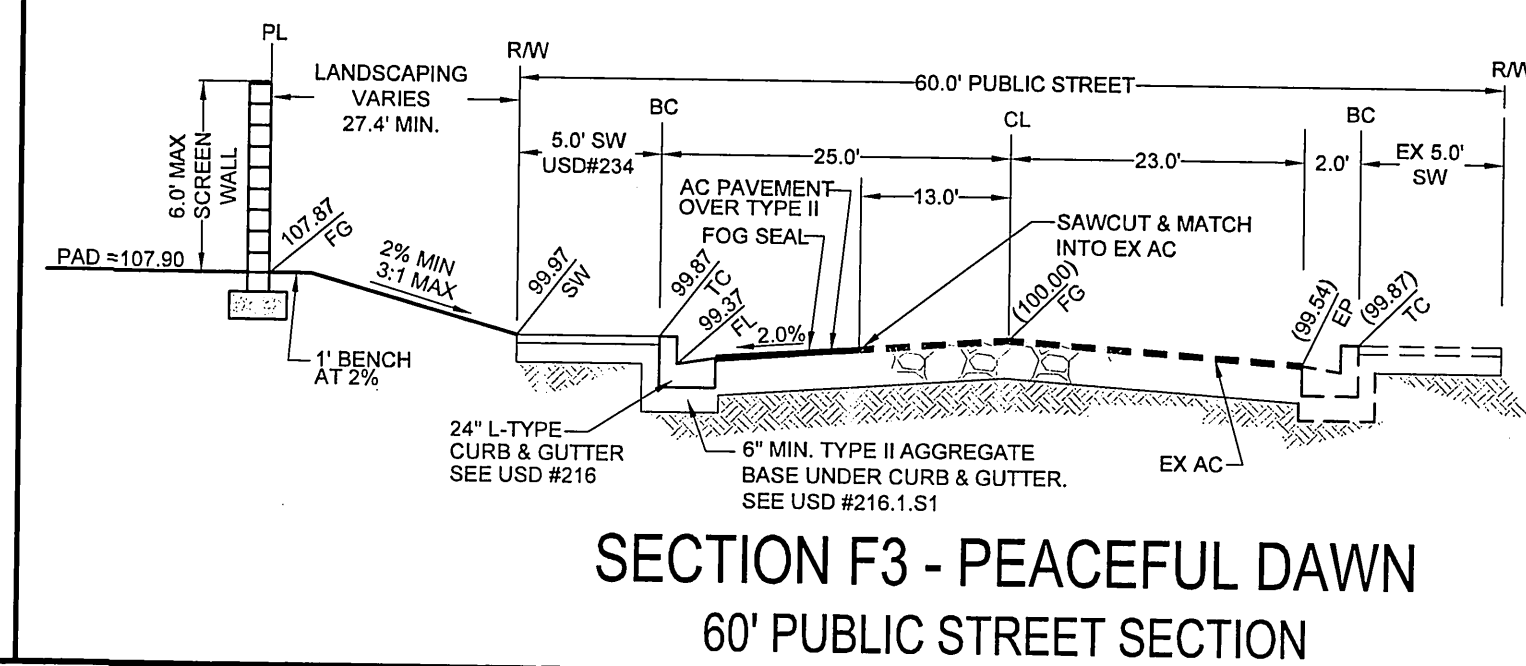
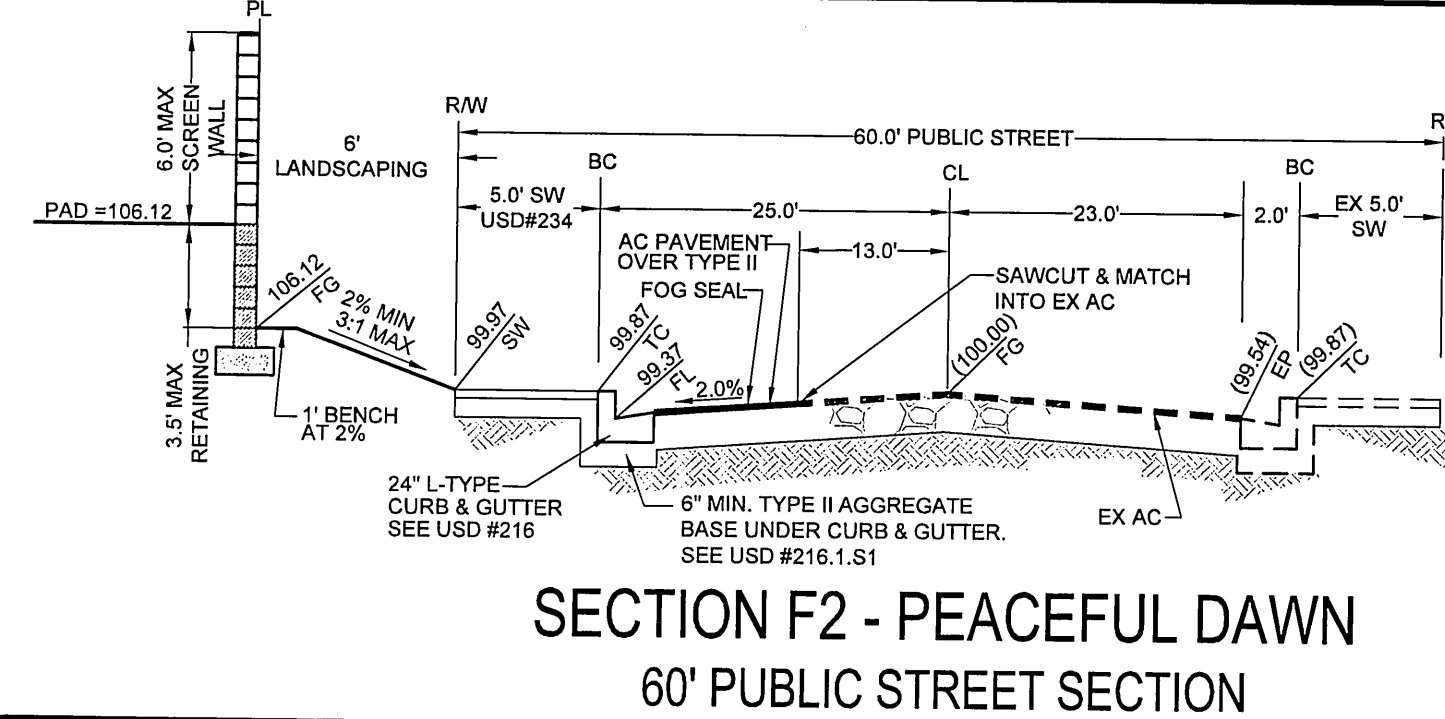
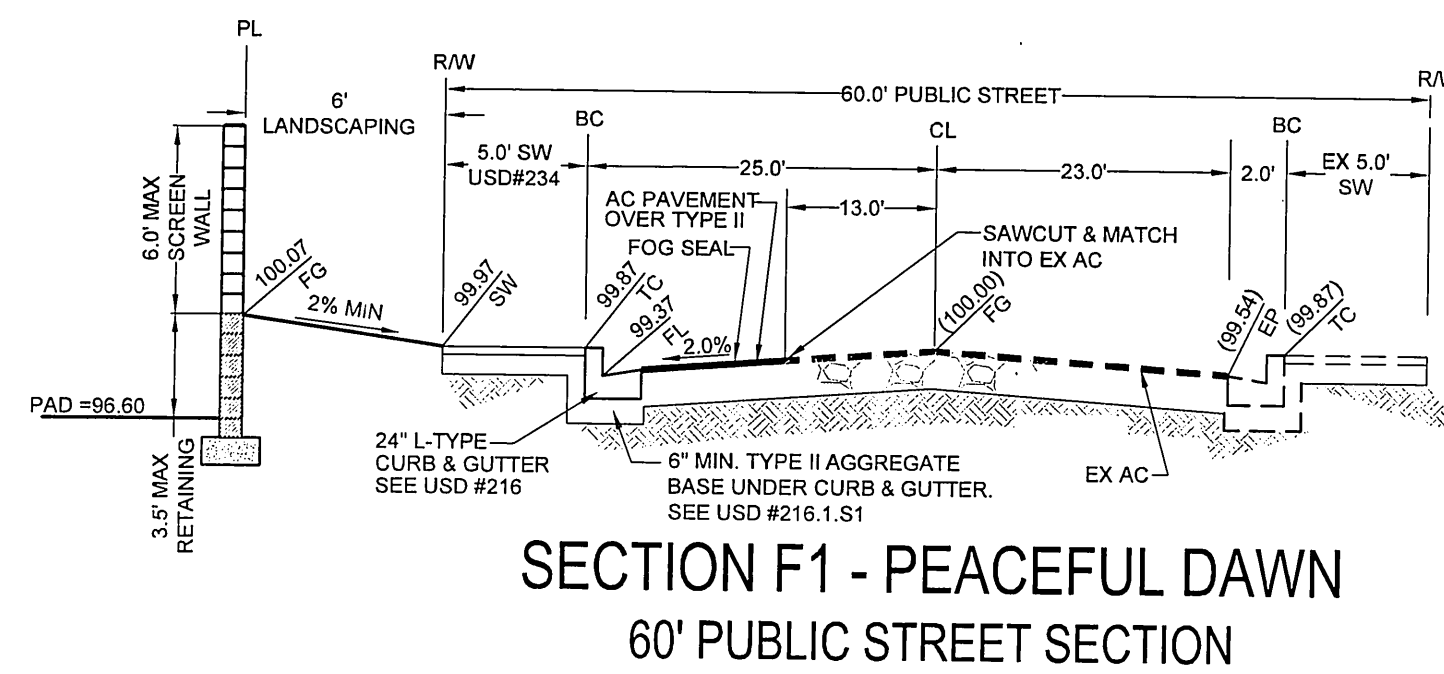
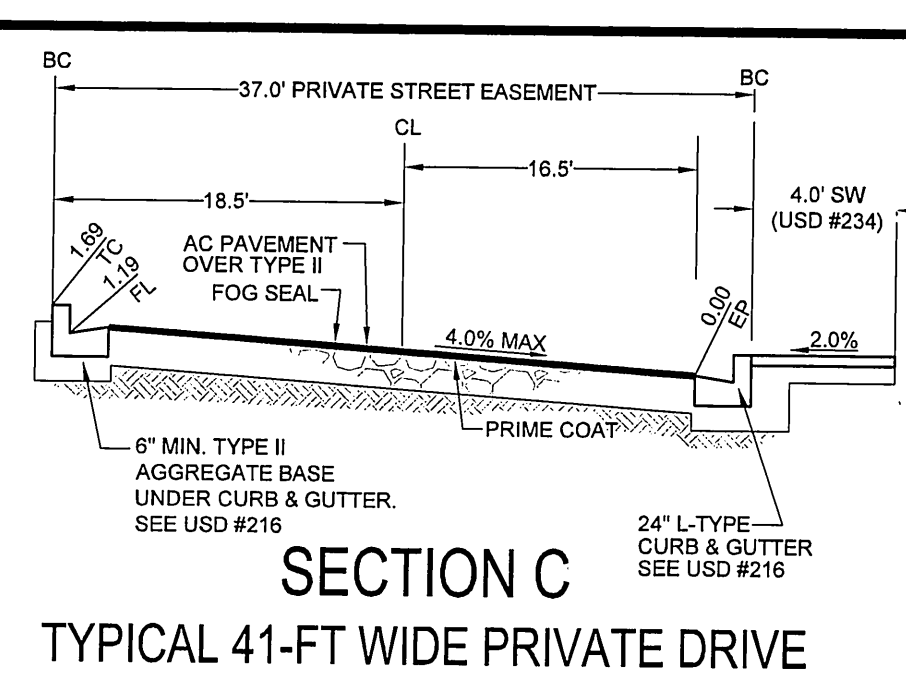
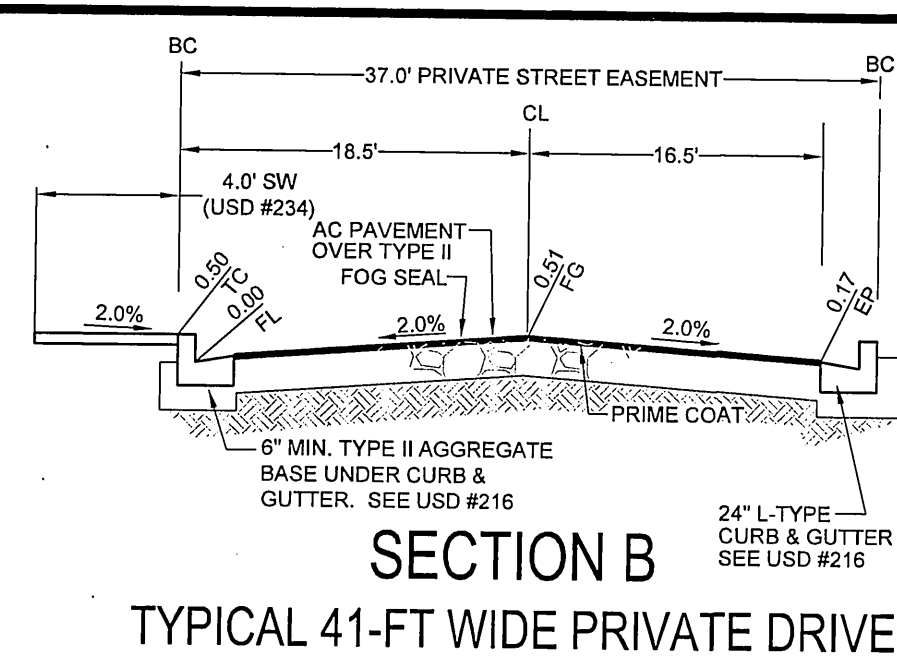
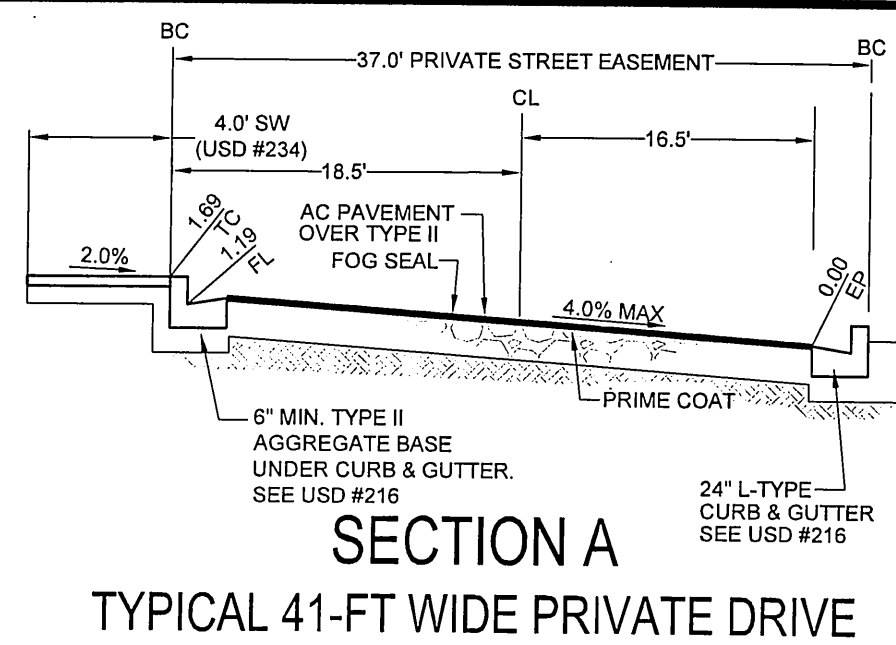
BENCHMARK

PROJECT VERTICAL DATUM: NAVD88
CITY OF LAS VEGAS BENCHMARK 11V09-1W6
NAVD88 ELEV: 895.080M 2936.55 FT
RIVET AND PLATE IN TOP OF CURB AT NORTHEAST CORNER OF CLIFF SHADOWS AND DIEGOVILLE.

BASIS OF BEARINGS

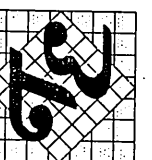
SOUTH 87°47'07" WEST, BEING THE BEARING OF THE SOUTH LINE OF THE NORTHWEST QUARTER (NW1/4) OF THE SOUTHWEST QUARTER (SW1/4) OF SECTION 1, TOWNSHIP 28 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY NEVADA, AS SHOWN BY MAP THEREOF ON FILE IN BOOK 113, PAGE 87 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.



[illegible]

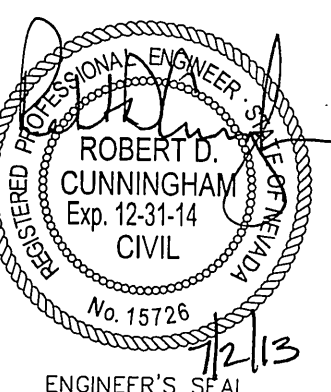
THM ENTERPRISE LLC
10655 PARK RUN DRIVE SUITE #230
LAS VEGAS, NV 89144

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



PEACEFUL RIDGE - PHASE 1
LONE MOUNTAIN & PULI
A RESIDENTIAL SUBDIVISION

GRADING DETAILS AND SECTIONS



DATE: 7/2/2013

SCALE: 1"=40'

DB NO: AST-12-002

SIGNED BY: SF

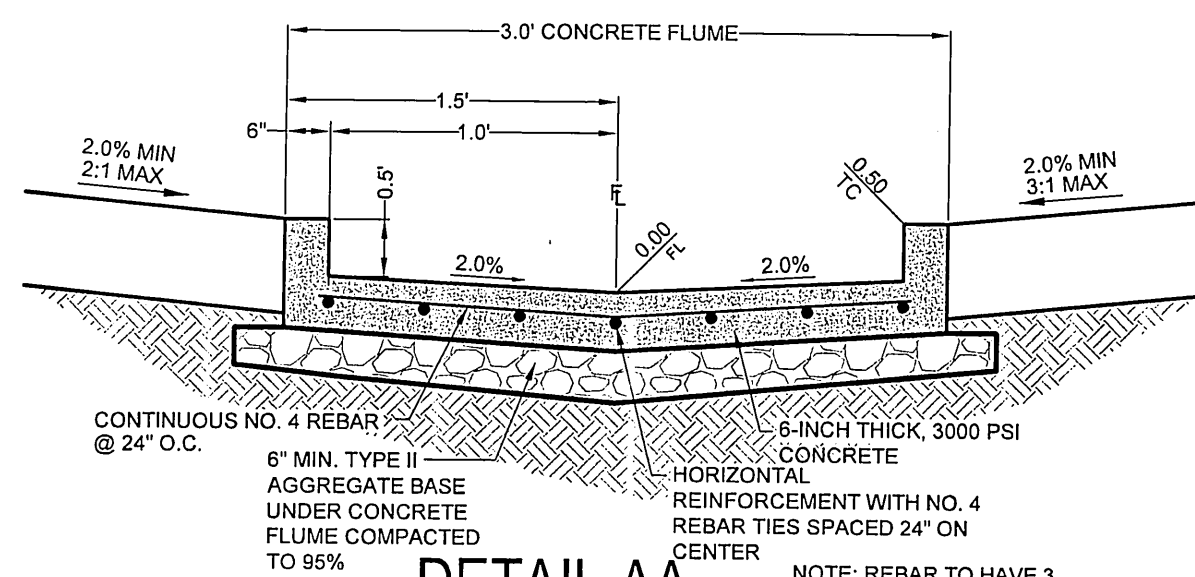
HECKED BY: MC

MEET NAME:

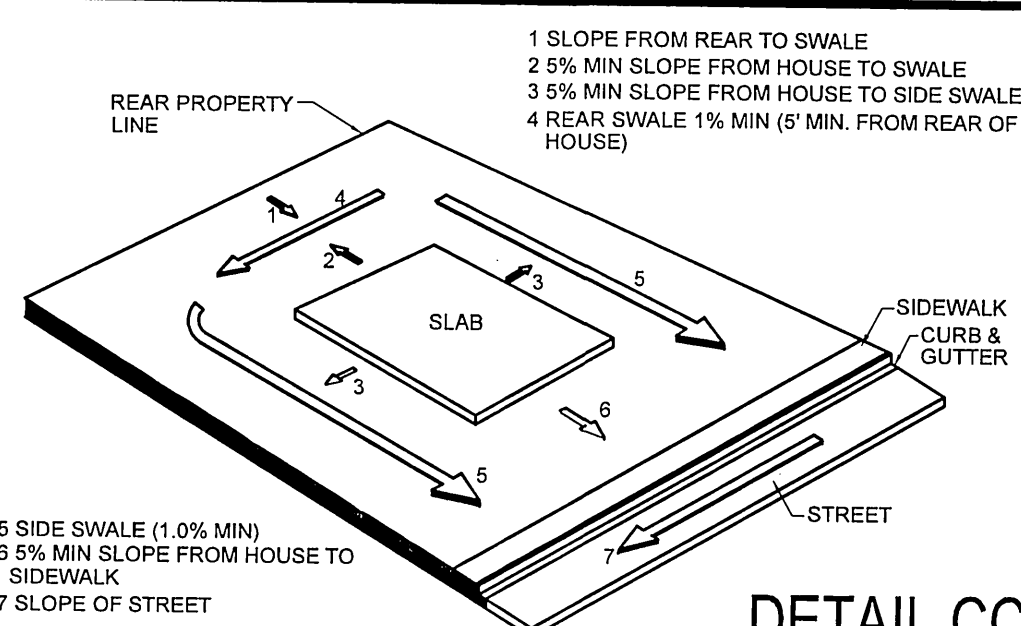
GD1

EET: 11 22

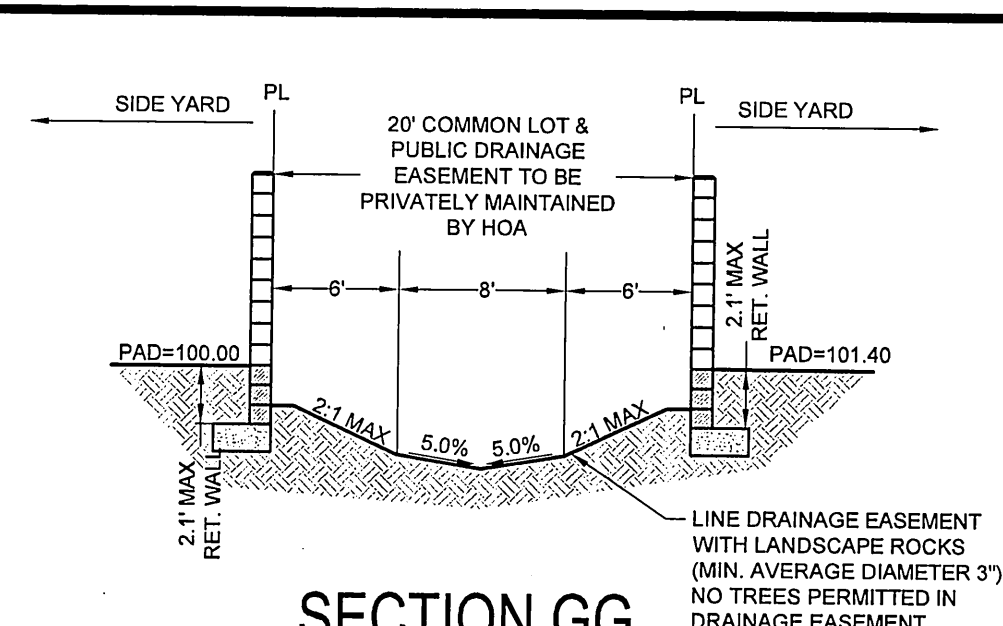
FILE NAME: GRADING DETAILS.DWG



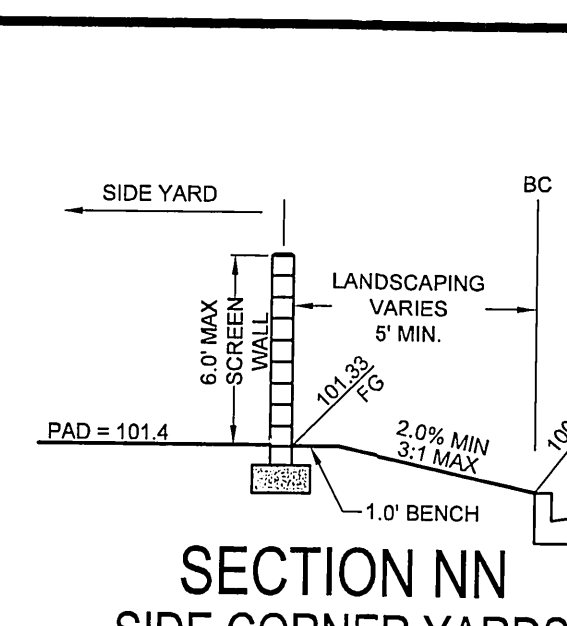
DETAIL AA
3.0' CONCRETE FLUME



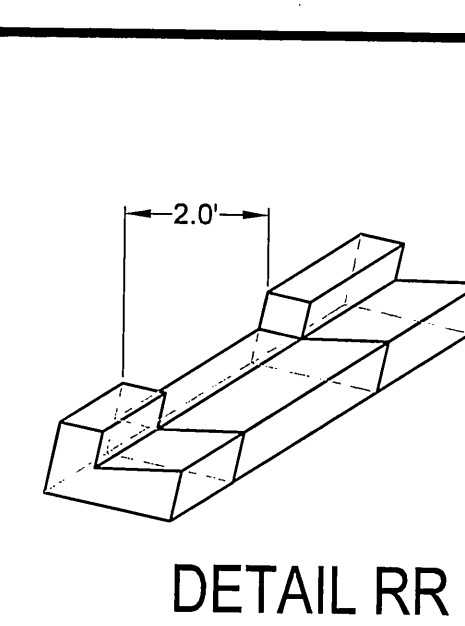
DETAIL CC
LOT DRAINAGE



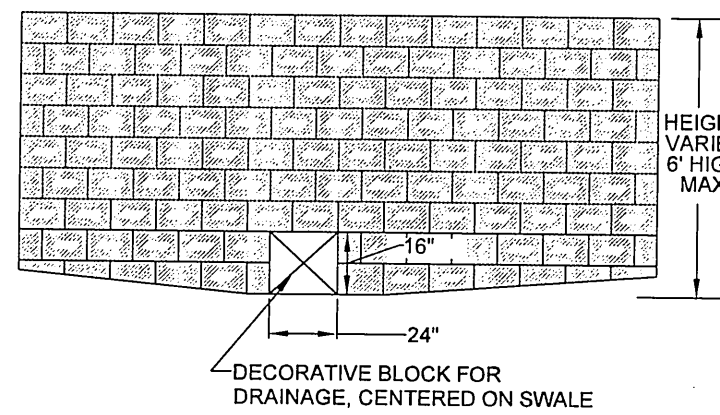
SECTION GG
20-FT DRAINAGE EASEMENT



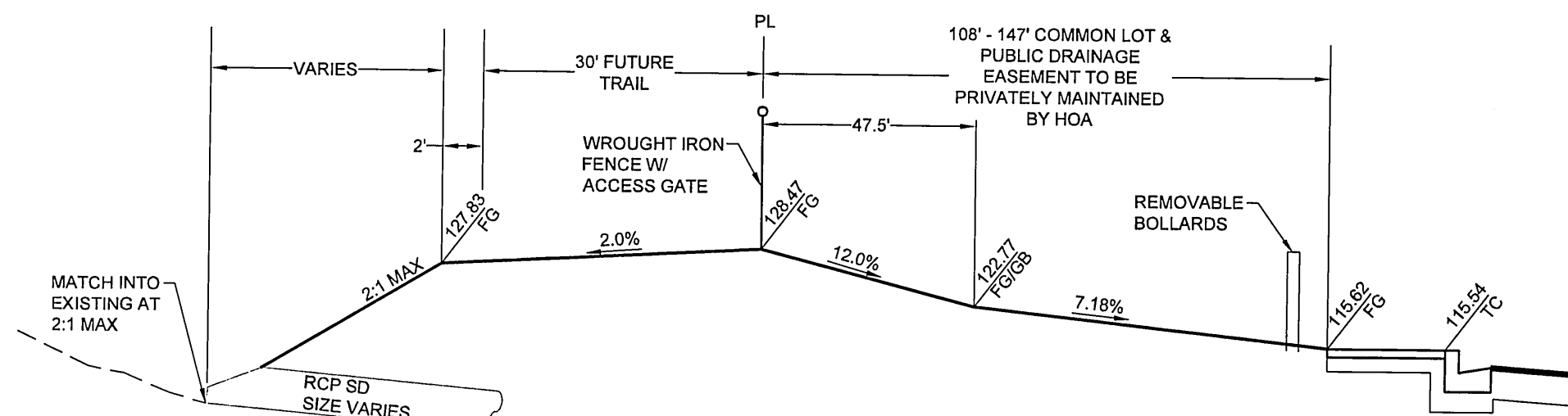
SECTION NN
SIDE CORNER YARDS



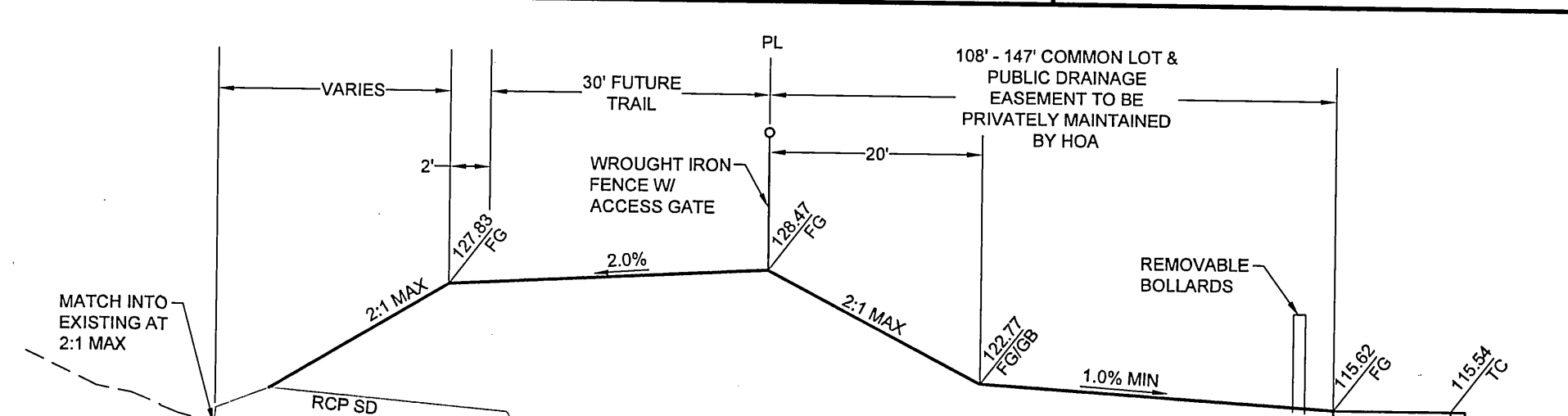
DETAIL RR
2' CURB CUT



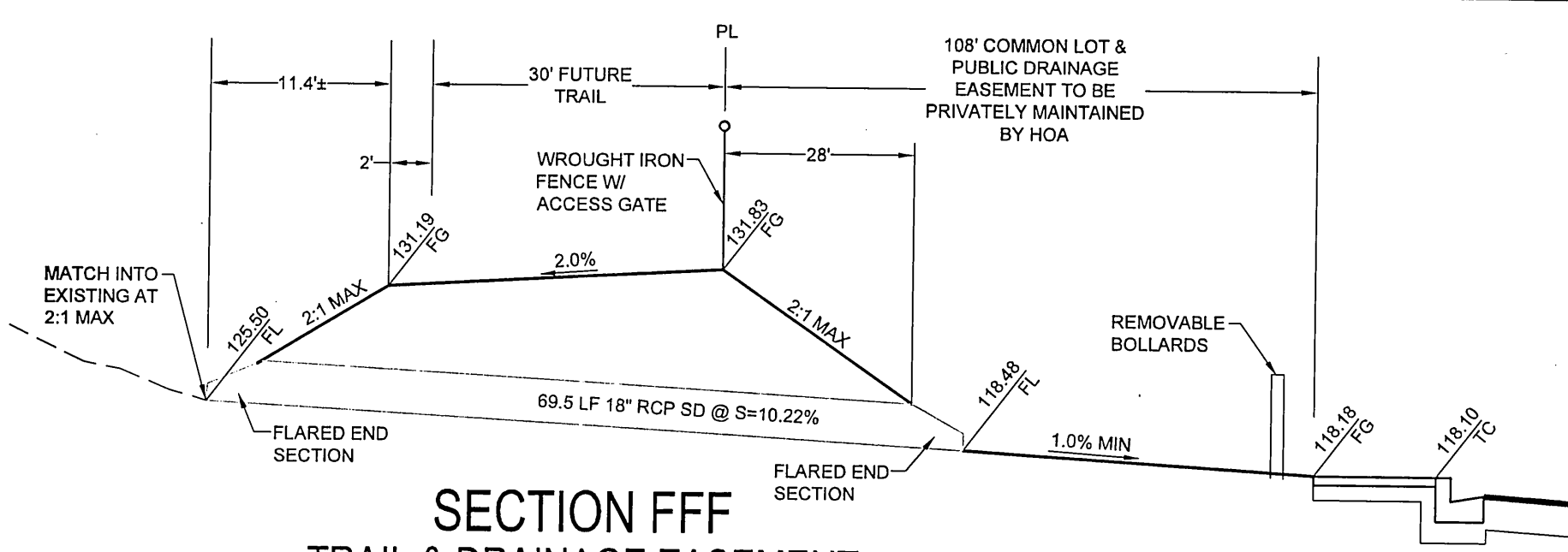
DETAIL CCC
BLOCK WALL OPENING



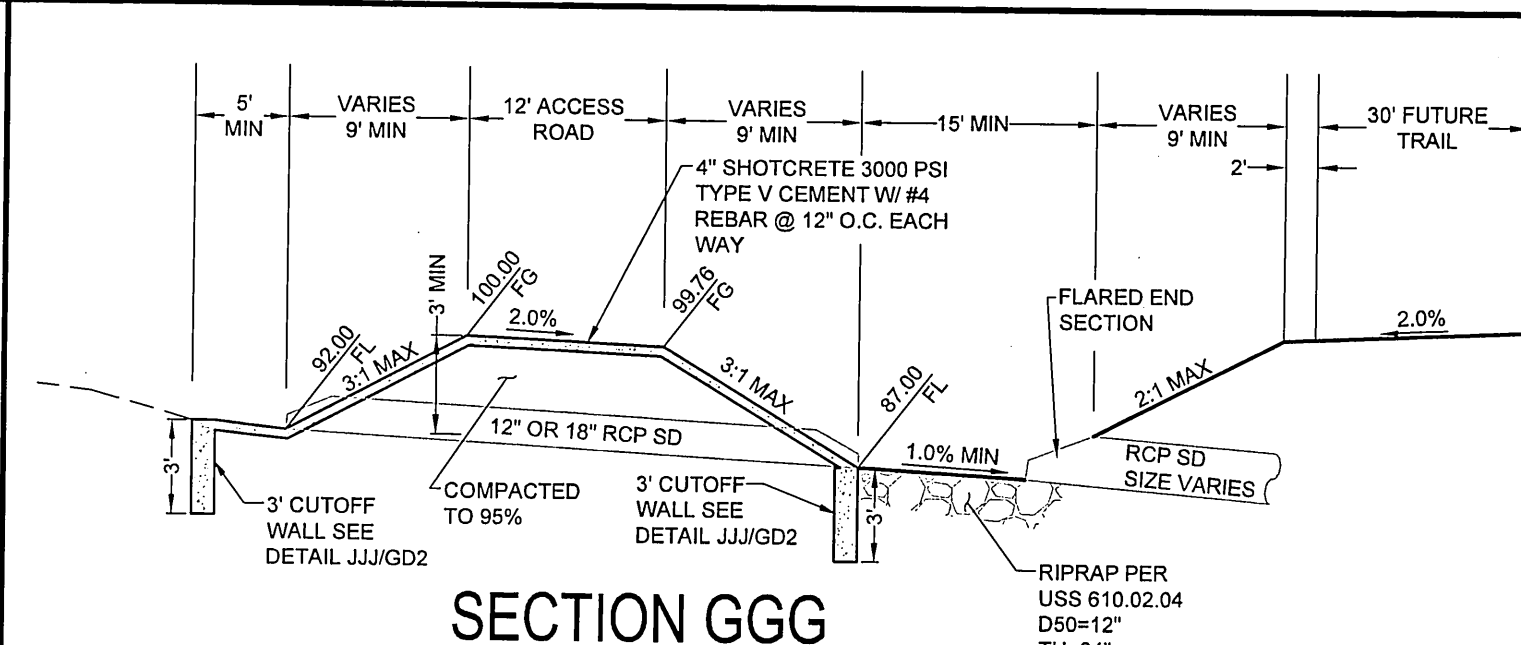
SECTION DDD
TRAIL & DRAINAGE EASEMENT



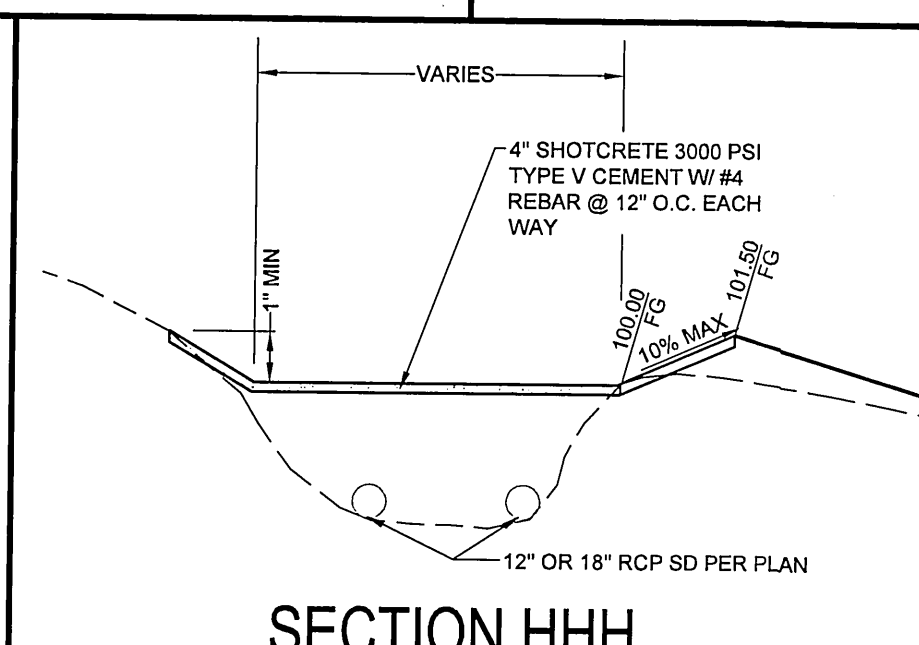
SECTION EEE
TRAIL & DRAINAGE EASEMENT



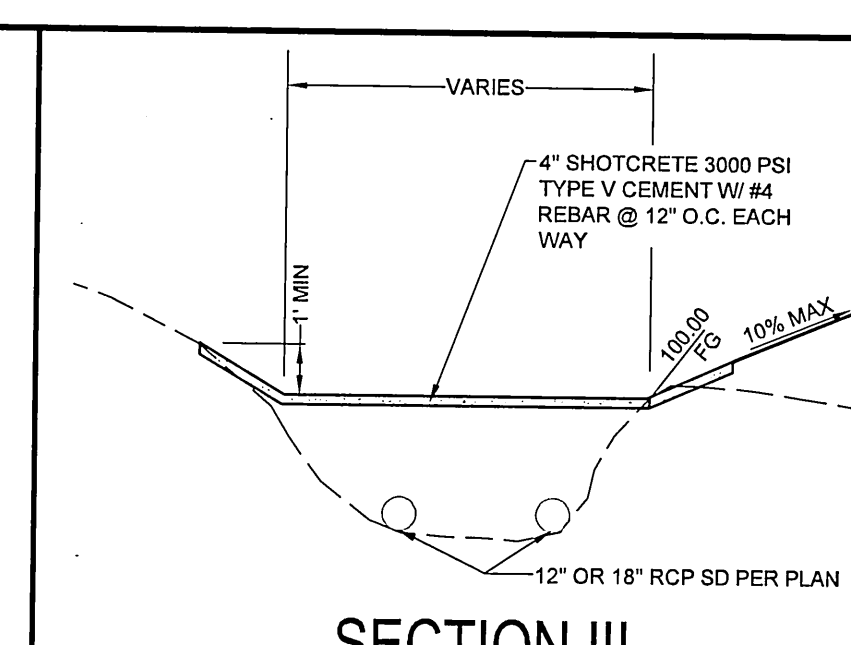
SECTION FFF
TRAIL & DRAINAGE EASEMENT



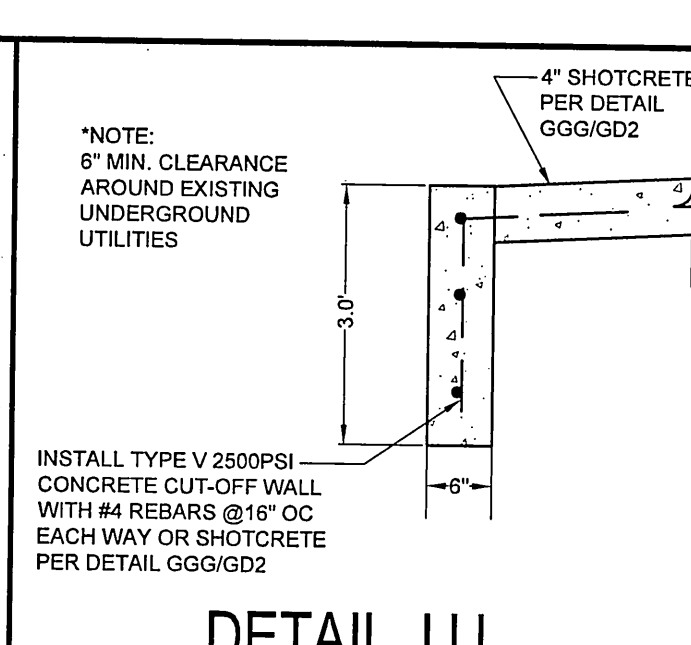
SECTION GGG
ACCESS ROAD & BERM



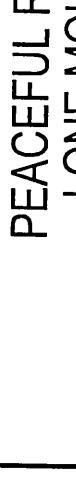
SECTION HHH
ACCESS ROAD & BERM

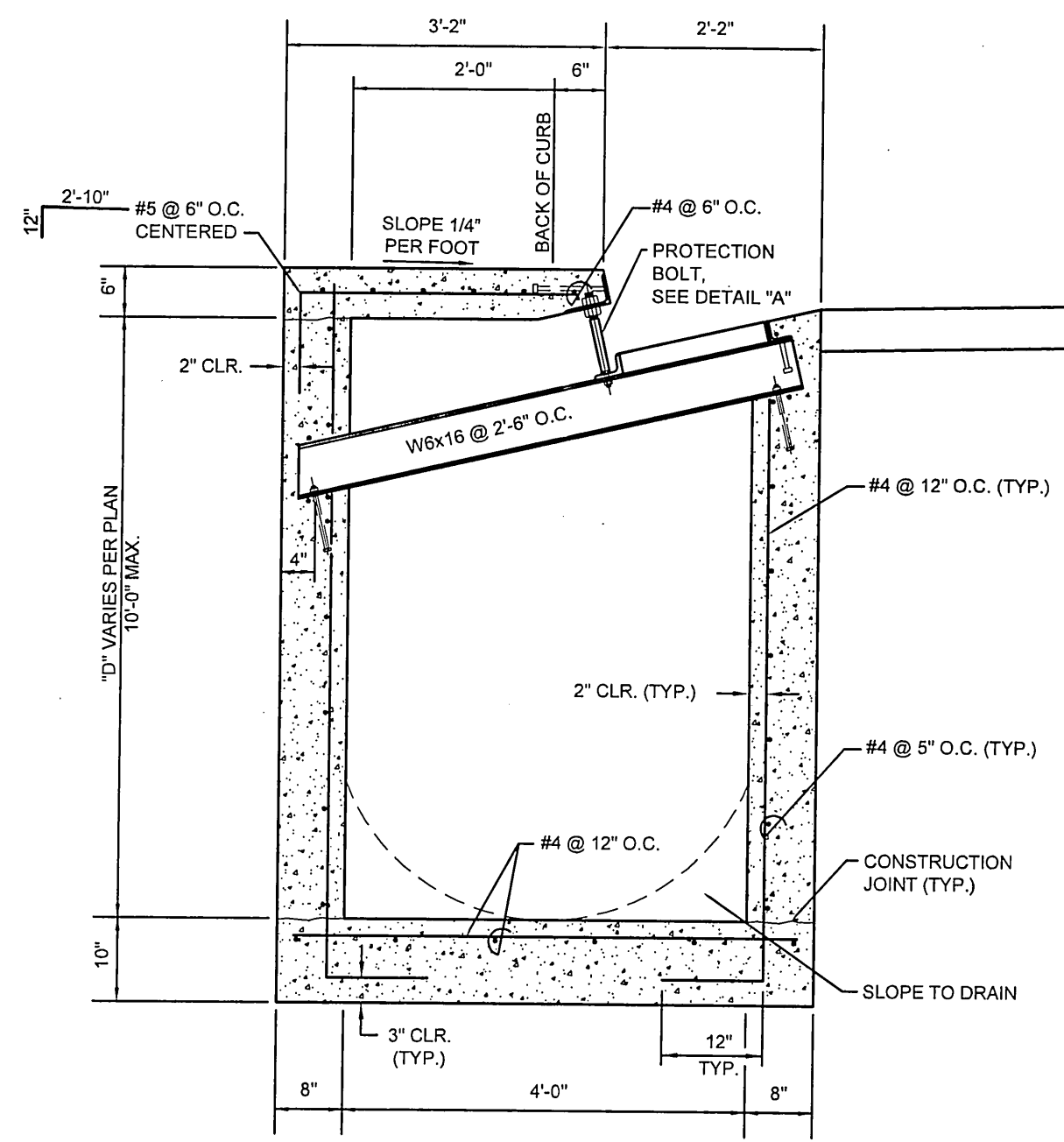


SECTION III
ACCESS ROAD & BERM

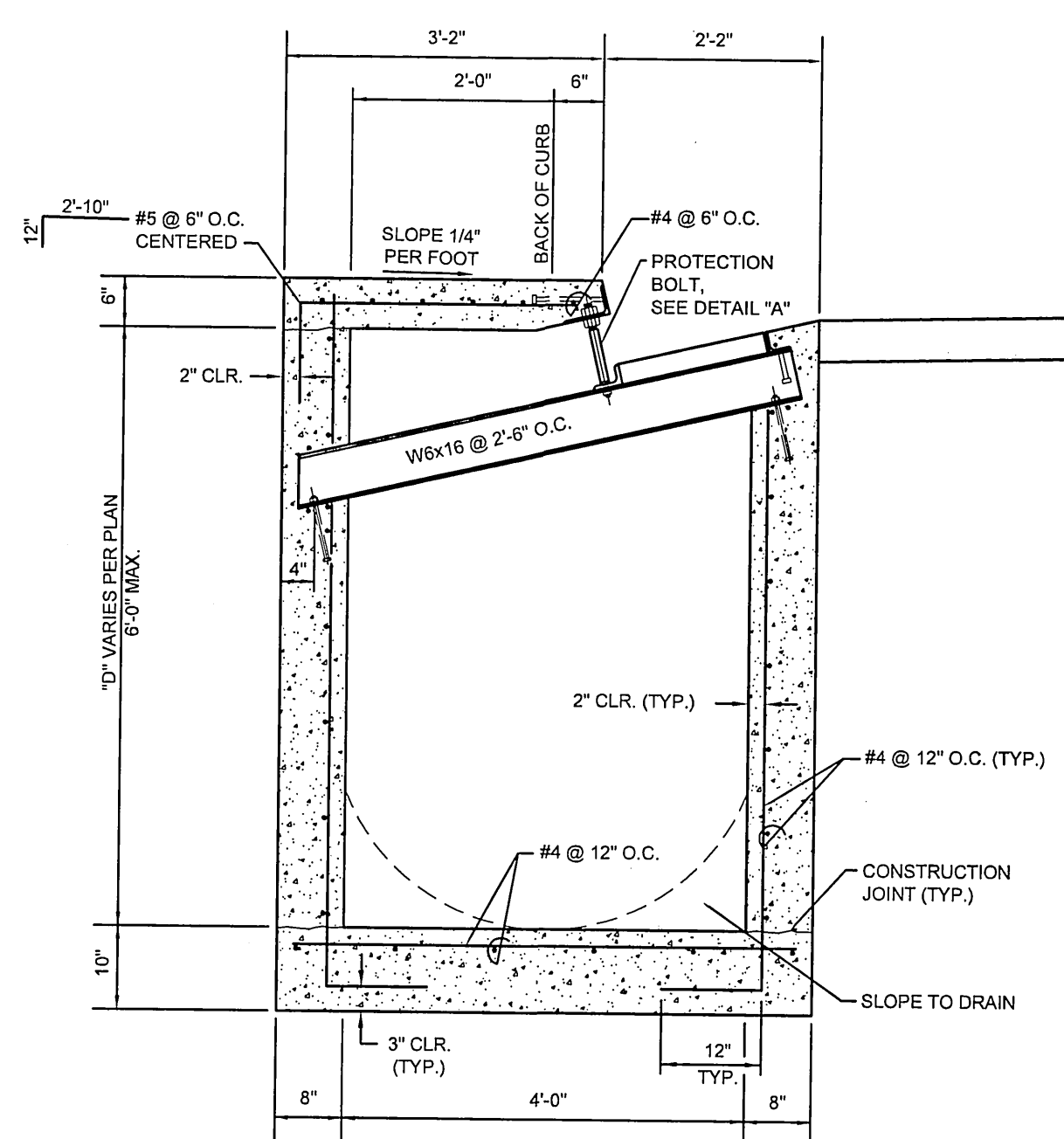


DETAIL JJJ
3.0' CUT-OFF WALL

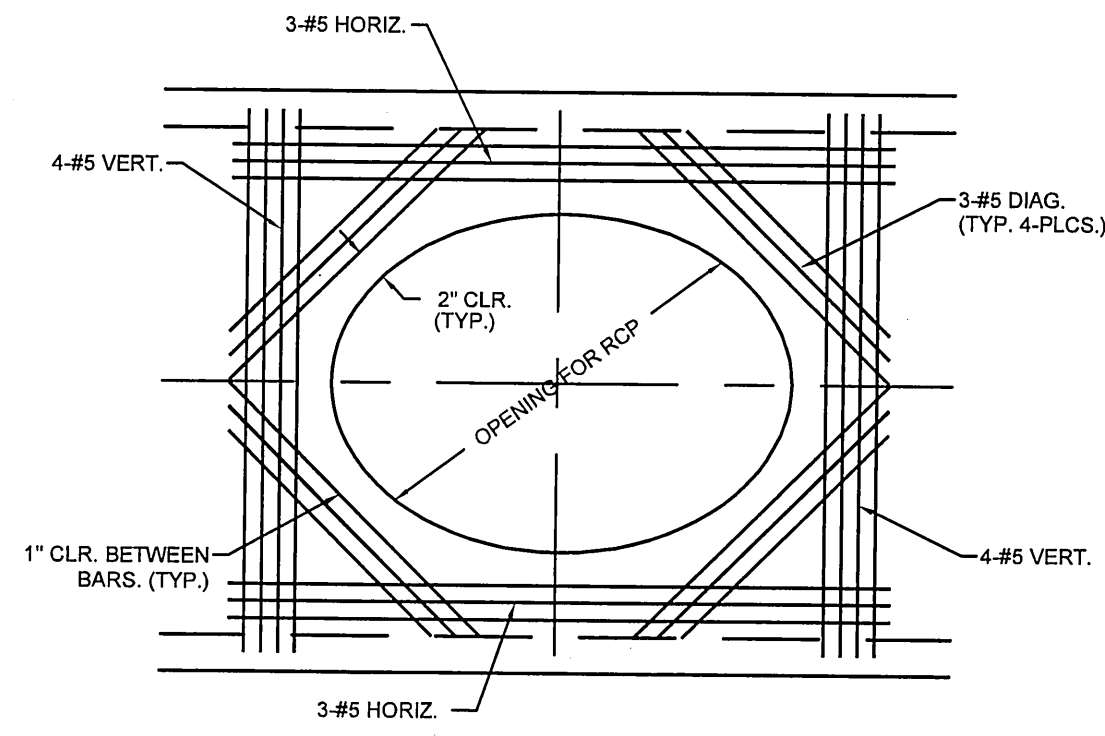
THM ENTERPRISE LLC 10555 PARK DRIVE SUITE #230 LAS VEGAS, NV 89144 (702) 853-6320 FAX: ----		 TANITY ENGINEERING 6020 S. JONES BLVD. #100 LAS VEGAS, NV 89118 (702) 362-2844 FAX: (702) 362-5233	
PEACEFUL RIDGE - PHASE 1 LONE MOUNTAIN & PULI A RESIDENTIAL SUBDIVISION			
 ENGINEER'S SEAL			
DATE: 7/2/2013		REVISIONS	
SCALE: 1"=40'			
JOB NO: AST-12-002			
DESIGNED BY:		SF	
CHECKED BY:		MC	
SHEET NAME:		GD2	
SHEET: 12 OF 22			
CLV		00000000	



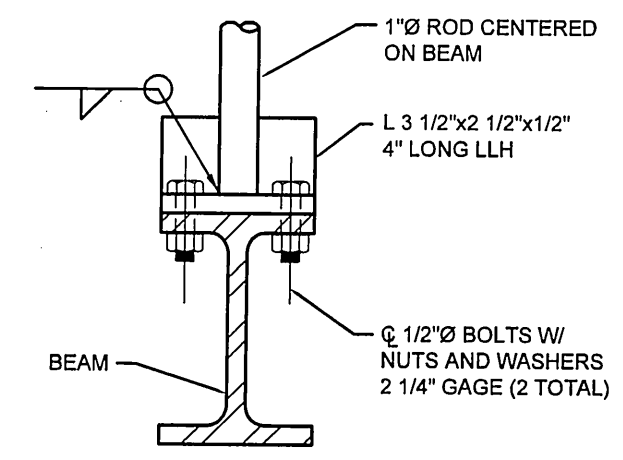
TYPE "CM" DROP INLET SECTION
(8' TO 10' DEEP)
SCALE 3/4"=1'



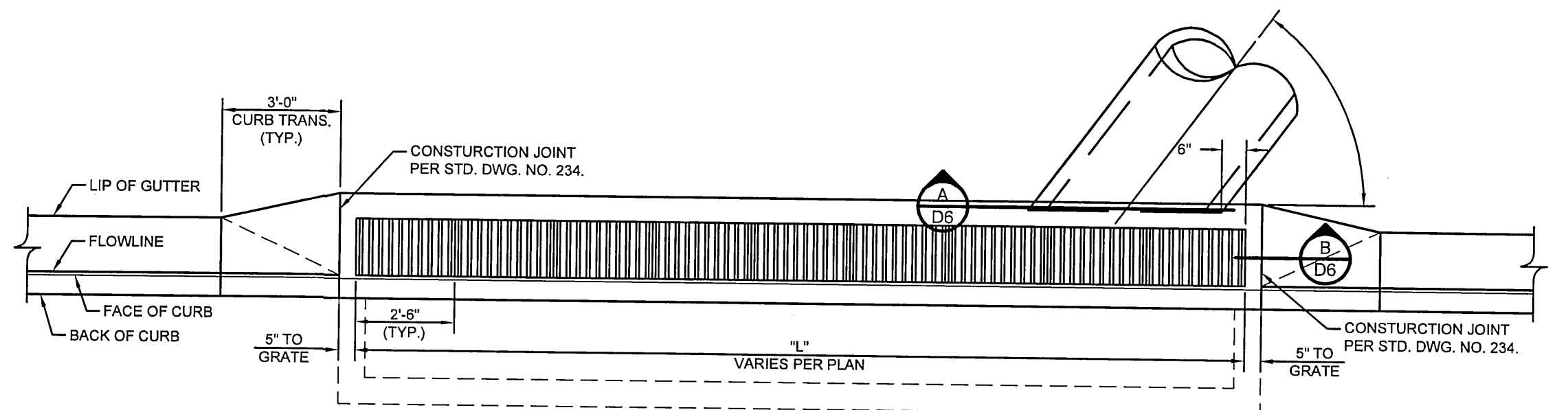
TYPE "CM" DROP INLET SECTION
(8' DEEP MAX.)
SCALE 3/4"=1'



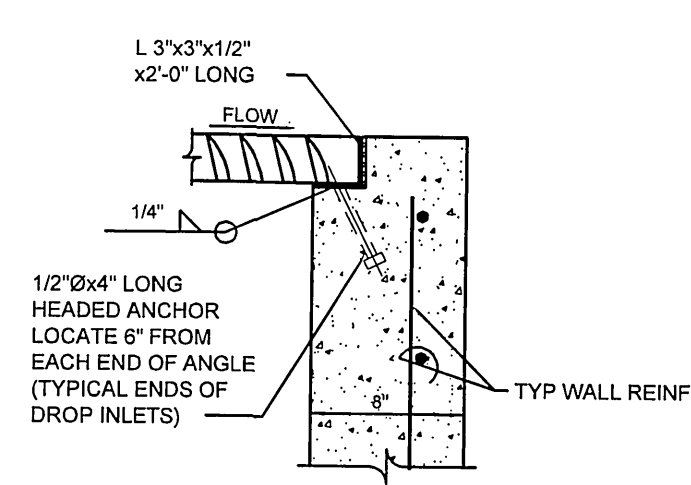
SECTION "A"
SCALE 3/4"=1'



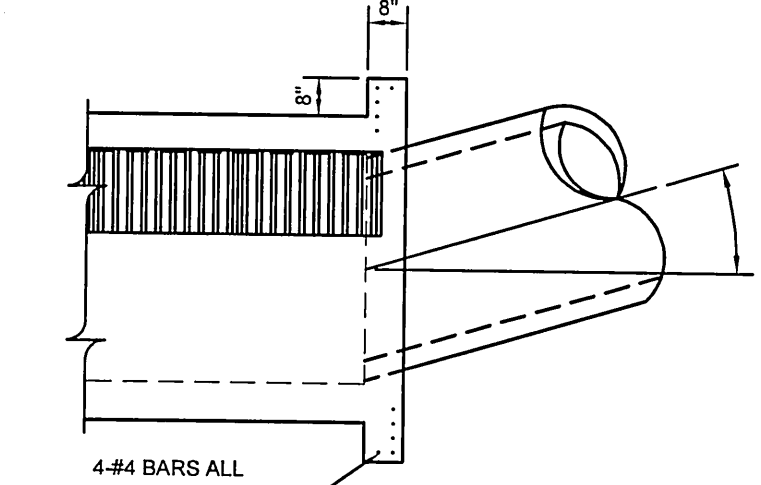
DETAIL "B"
SCALE 3/4"=1'



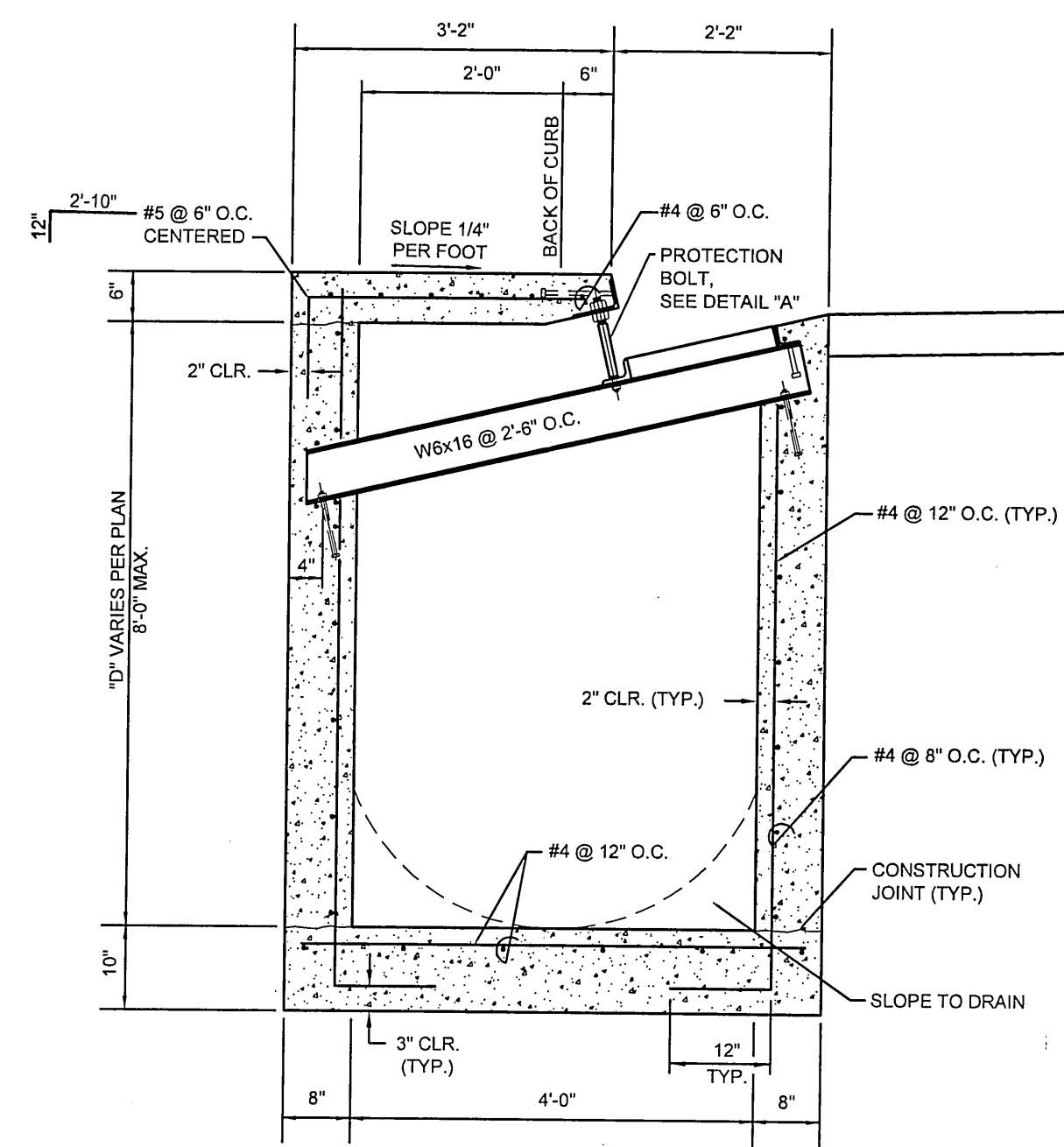
DROP INLET LAYOUT PLAN
SCALE 3/8"=1'



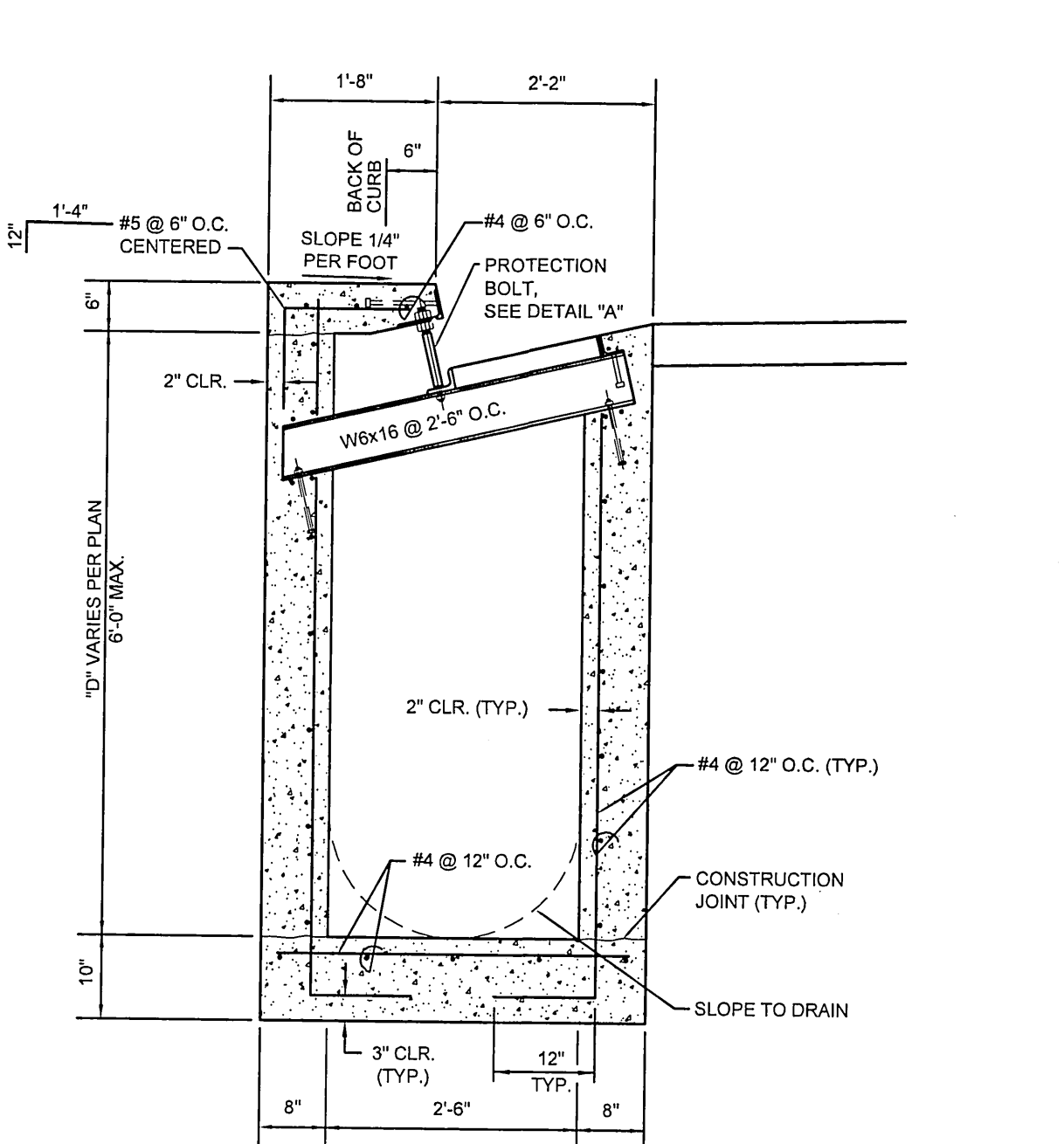
SECTION "B"
SCALE 3/8"=1'



ALTERNATE CONNECTION DETAIL
SCALE 3/8"=1'



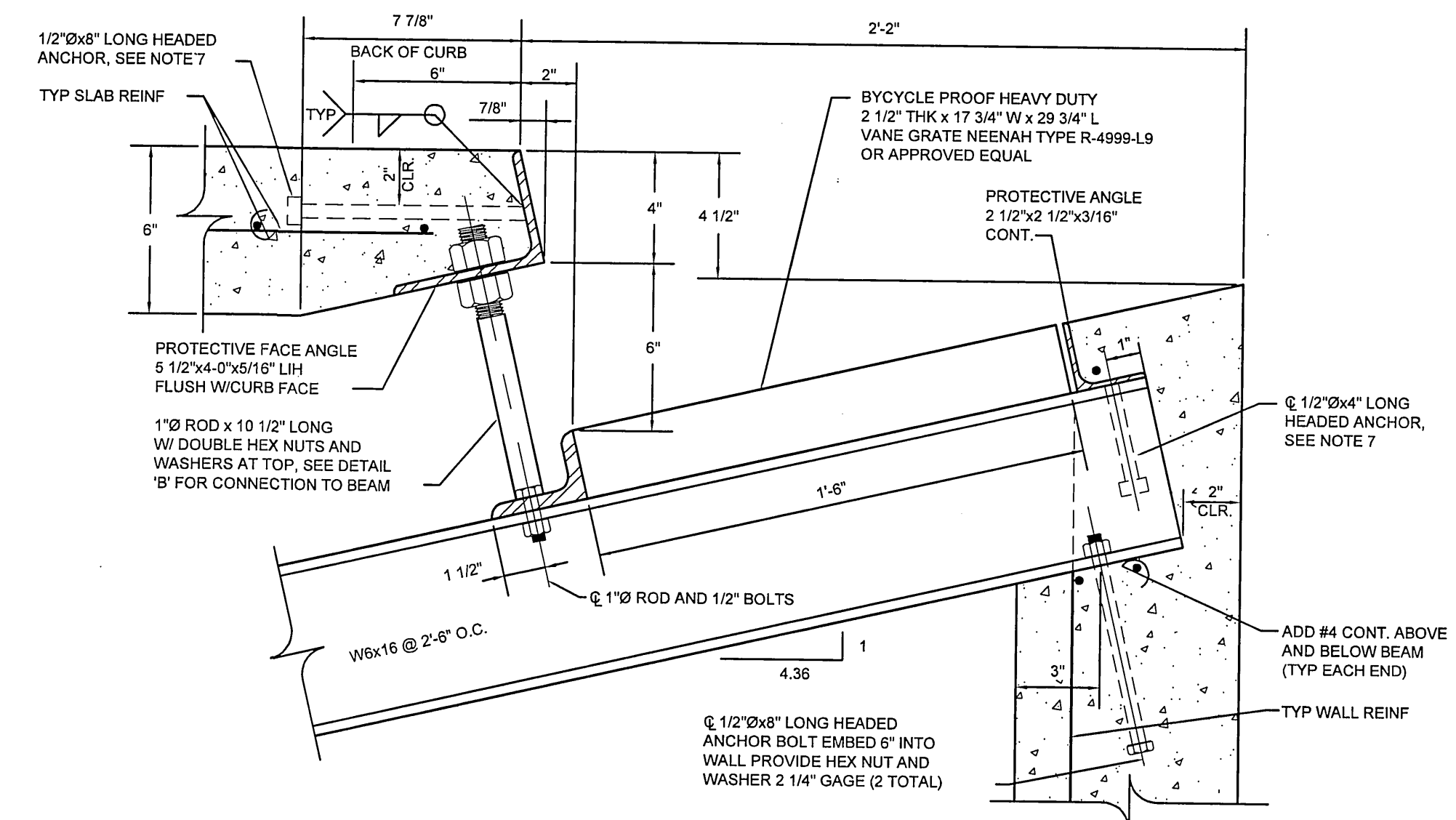
TYPE "CM" DROP INLET SECTION
(8' TO 8' DEEP)
SCALE 3/4"=1'



TYPE "DM" DROP INLET SECTION
SCALE 3/4"=1'

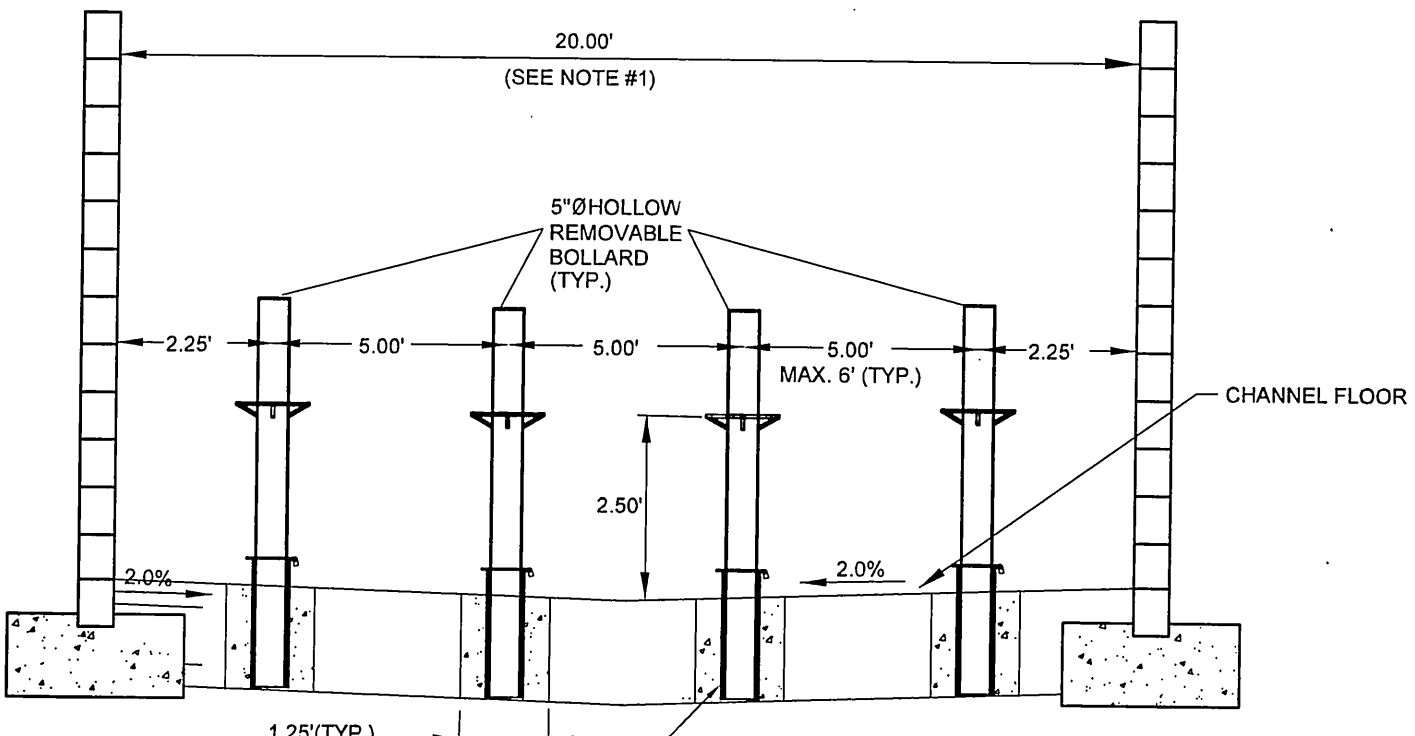
NOTES:

1. ALL EXPOSED METALS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.
2. PROVIDE 1/2" (MIN.) CLEARANCE ALL AROUND THE STEEL BEAM.
3. WHEN REQUIRED BY LENGTH OF OPENING, PLATE ANGLE MAY BE DELIVERED IN SECTIONS AND BUTT WELDED IN PLACE.
4. ALL GALVANIZING DAMAGED BY WELDING SHALL RECEIVE TWO COATS OF GALVALLOY OR EQUAL.
5. CONCRETE SHALL BE MODIFIED CLASS DA. SEE SPECIAL PROVISIONS SECTION 501.
6. SEE GENERAL NOTES FOR STRUCTURES ON DWG 03.
7. ANGLE ANCHORS SHALL BE EMBEDDED MIDPOINT IN EACH ENDWALL AND EVENLY SPACED. (MAXIMUM SPACING OF 2')



PROTECTIVE FACE & ROD - DETAIL "A"
SCALE 3/8"=1'

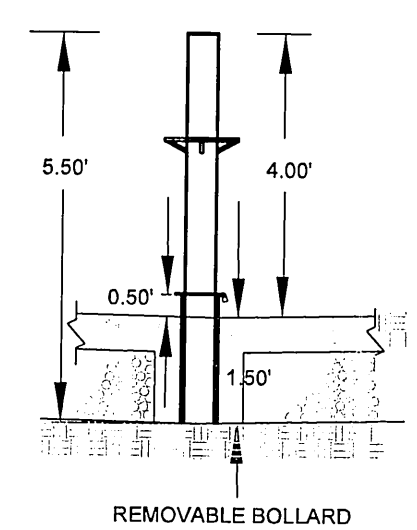
DETAIL XX
TYPE 'CM' DROP INLET



SECTION A-A'

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

DETAIL KKK
REMOVABLE BOLLARDS

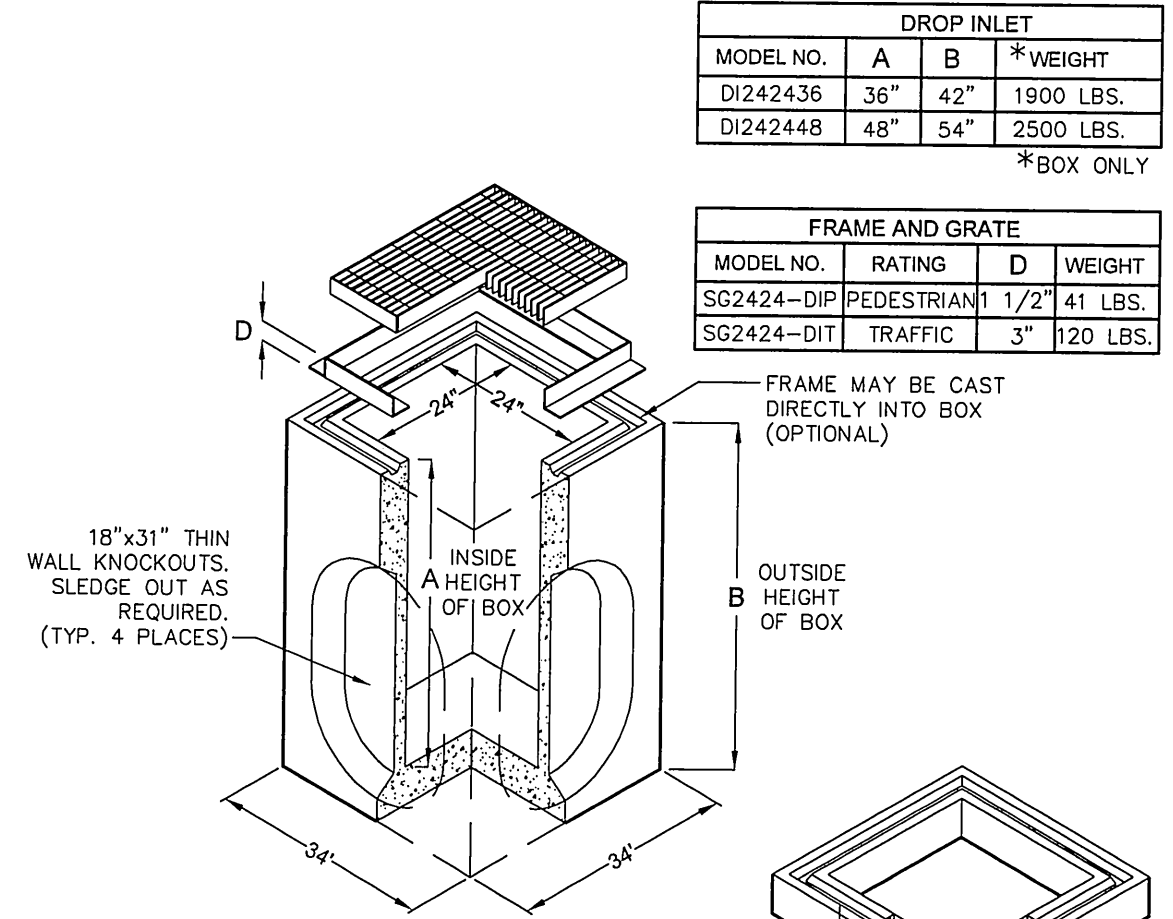


ONE PERCENT MINIMUM SLOPE THROUGH DRAINAGE SLAB IS REQUIRED. WHERE A STORM DRAIN LINE IS AVAILABLE IN THE EXTERIOR STREET, A STORM DRAIN INLET AT THE BEGINNING OF THE EASEMENT AND AN 18-INCH MINIMUM STORM DRAIN PIPE IS REQUIRED TO COVEY NUISANCE WATER THROUGH THE EASEMENT.

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

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

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



DETAIL LLL
24" X 24" JENSEN PRECAST DROP INLET

DROP INLET			
MODEL NO.	A	B	*WEIGHT
D1242436	36"	42"	1900 LBS.
D1242448	48"	54"	2500 LBS.

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

*BOX ONLY

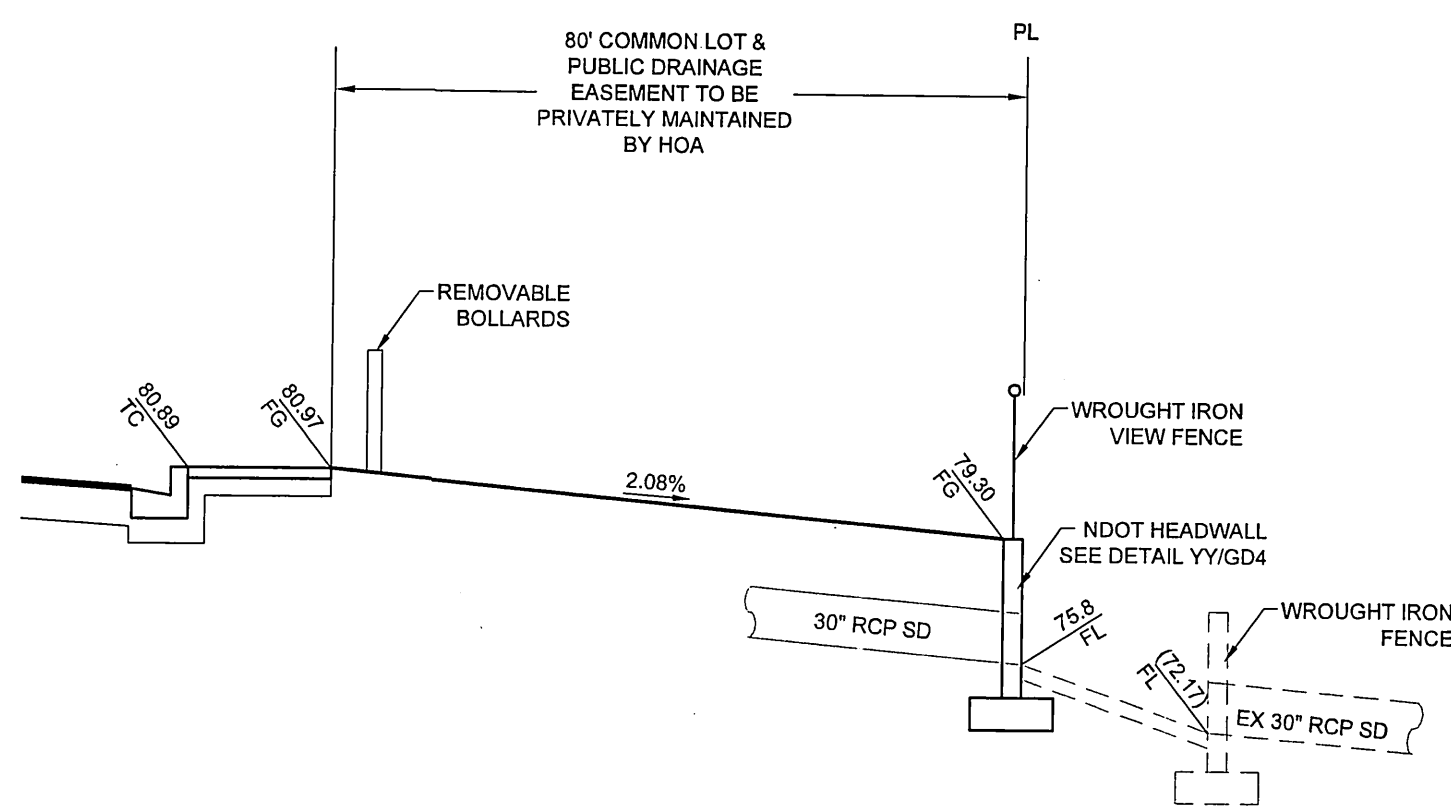
FRAME MAY BE CAST DIRECTLY INTO BOX (OPTIONAL)

18"x31" THIN WALL KNOCKOUTS, SLEDGE OUT AS REQUIRED. (TYP. 4 PLACES)

INSIDE A HEIGHT OF BOX

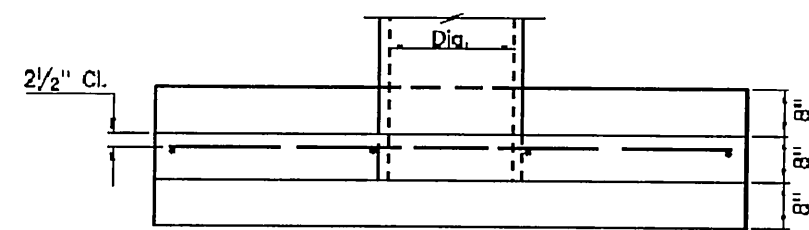
OUTSIDE HEIGHT OF BOX

OPTIONAL EXTENSION C HEIGHT

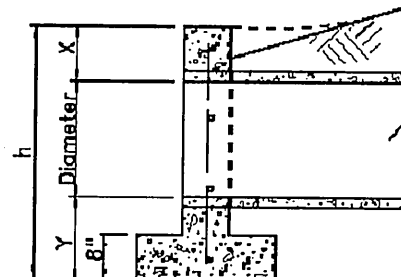


SECTION MMM
TRAIL & DRAINAGE EASEMENT

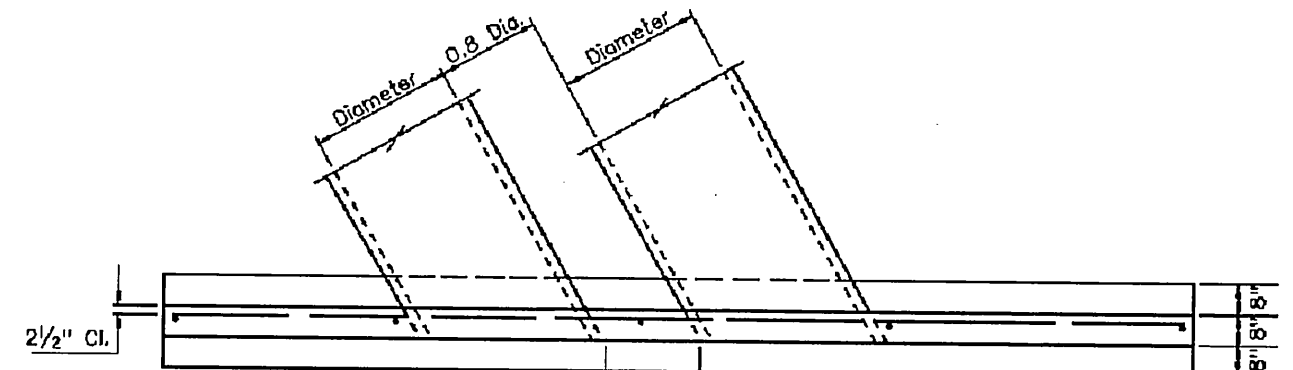
THM ENTERPRISE LLC 10655 PARK RUN DRIVE SUITE #230 LAS VEGAS, NV 89144 (702) 853-6220 FAX: (702) 362-5233	TANNEY ENGINEERING 6005 W. LAS VEGAS BLVD. SUITE 100 LAS VEGAS, NV 89118 (702) 362-8844 FAX: (702) 362-5233
PEACEFUL RIDGE - PHASE 1 LONE MOUNTAIN & PULI A RESIDENTIAL SUBDIVISION	TITLE 1 TITLE 2 TITLE 3
DATE: 7/2/2013	SCALE: 1"=4'
JOB NO: AST-12-002	DESIGNED BY: SF
CHECKED BY: MC	SHEET NAME: GD3
SHEET: 13 OF 22	CLV 0000000



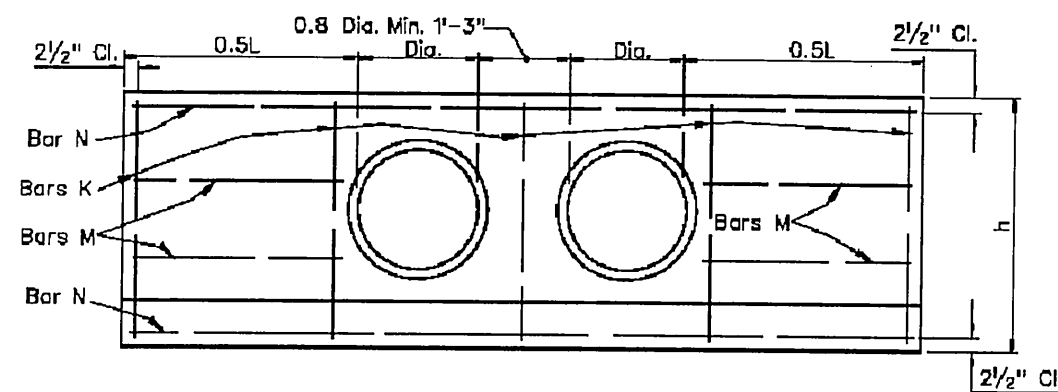
PLAN
SINGLE RCP/HDPE



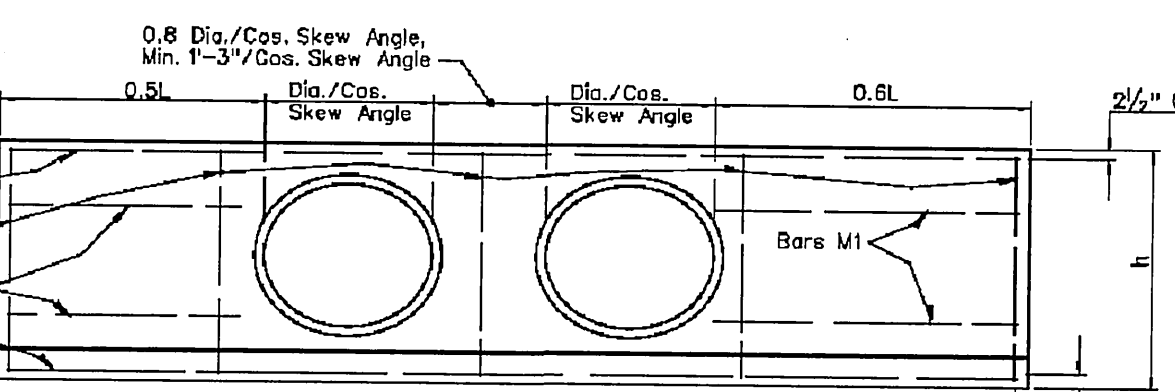
SECTION
FOR ALL HEADWALLS



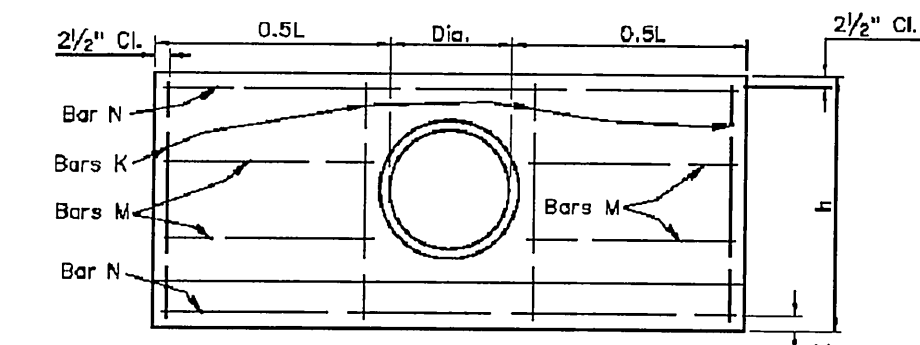
PLAN
DOUBLE RCP/HDPE



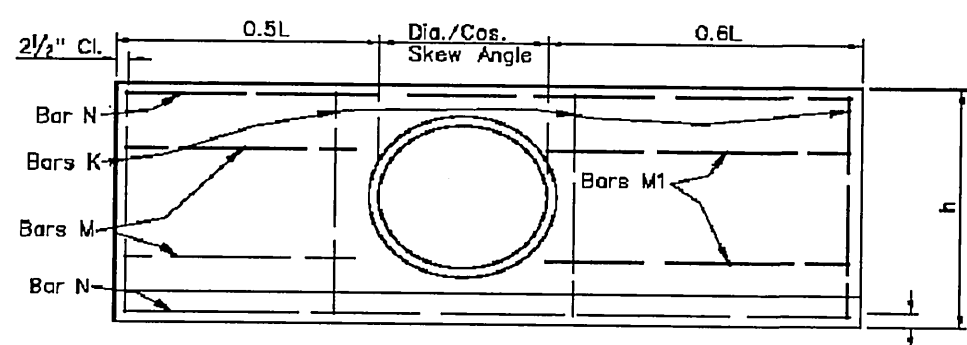
ELEVATION
DOUBLE RCP/HDPE



ELEVATION
DOUBLE RCP/HDPE



ELEVATION
SINGLE RCP/HDPE
0° SKEW



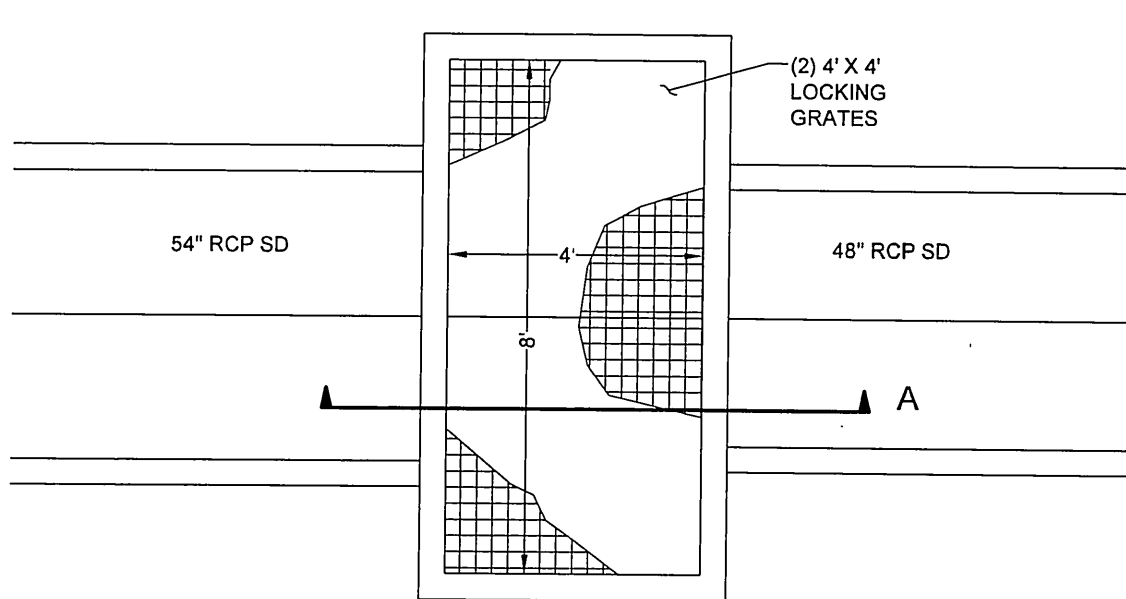
ELEVATION
SINGLE RCP/HDPE
15° TO 45° SKEW

SHEET 1 OF 2

NEVADA DEPARTMENT OF TRANSPORTATION
CULVERT HEADWALLS
12" TO 36" RCP/HDPE

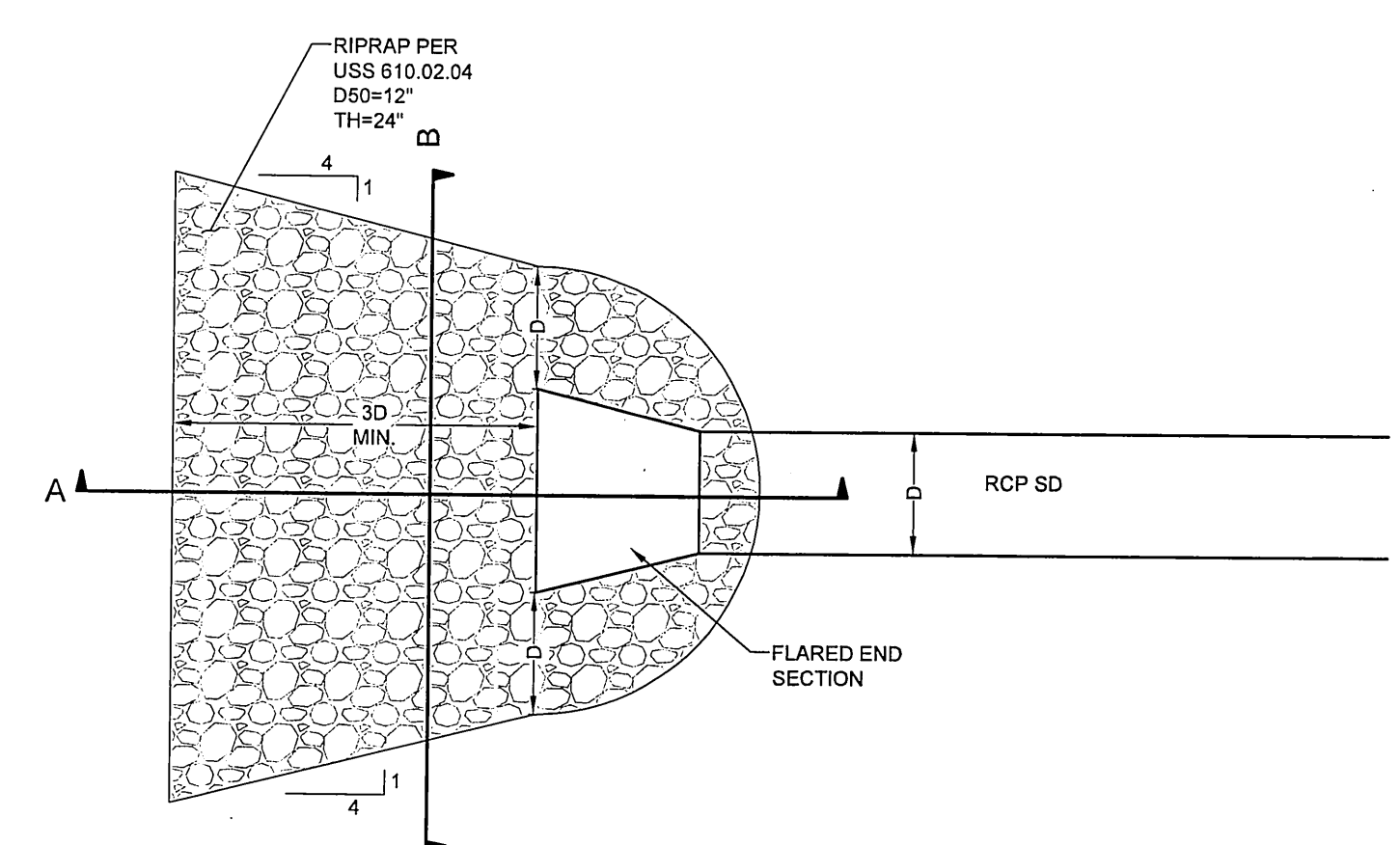
Signed Original On File R-2.5.1 (502)
CHIEF HYDRAULICS ENGINEER

DETAIL YY
NDOT HEADWALL

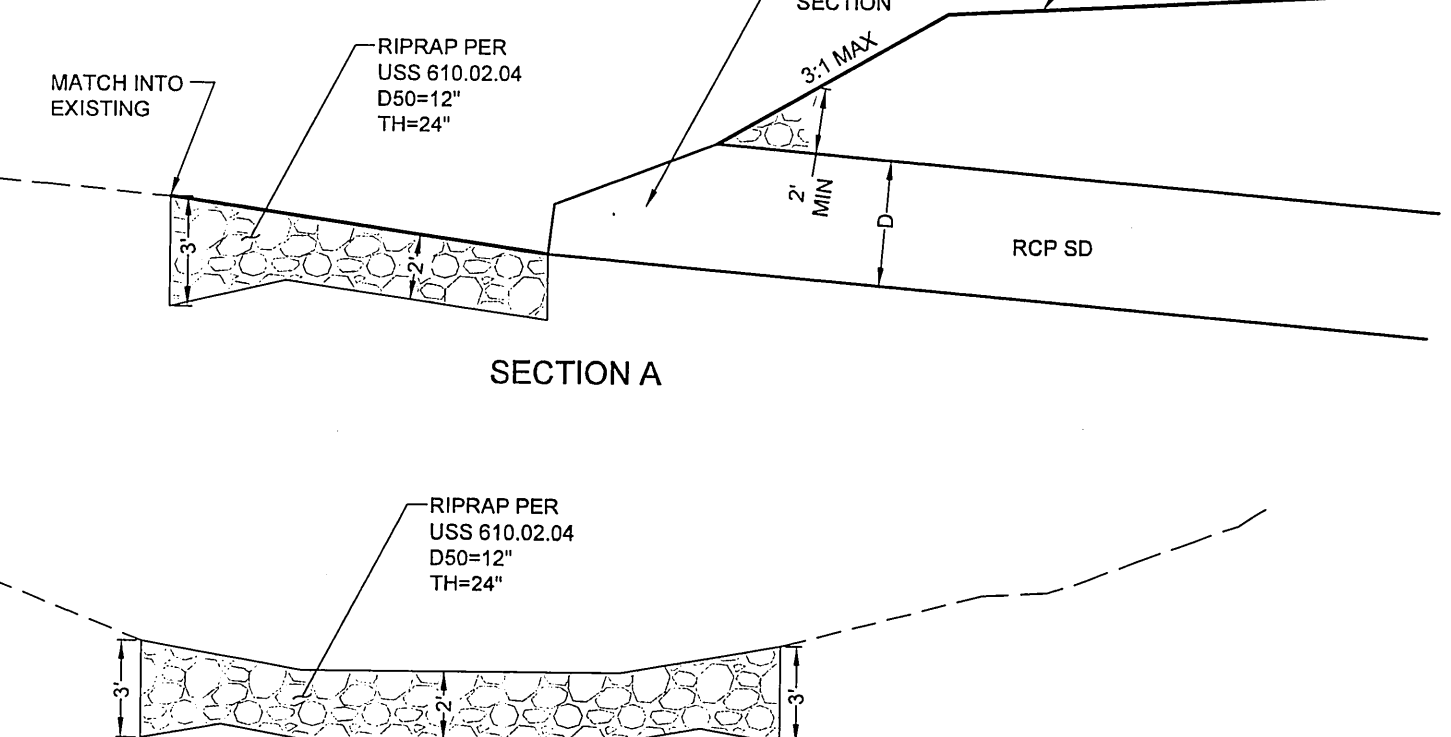


SECTION A

DETAIL ZZ
8' X 4' BUBBLER STRUCTURE



SECTION A



SECTION B

DETAIL AAA
TYPICAL RCP ENTRANCE DETAIL

QUANTITIES SHOWN BELOW ARE FOR TWO HEADWALLS.

RCP/ HDPE SIZE DIA.	RCP/ HDPE AREA SQ. FT.	SINGLE RCP/HDPE												DOUBLE RCP/HDPE												X	Y	L	h								
		0° SKEW				15° SKEW				30° SKEW				45° SKEW				0° SKEW				15° SKEW								30° SKEW				45° SKEW			
		CONC CU YD	STEEL LB	CONC CU YD	STEEL LB	CONC CU YD	STEEL LB	CONC CU YD	STEEL LB	CONC CU YD	STEEL LB	CONC CU YD	STEEL LB	CONC CU YD	STEEL LB	CONC CU YD	STEEL LB	CONC CU YD	STEEL LB	CONC CU YD	STEEL LB	CONC CU YD	STEEL LB	CONC CU YD	STEEL LB					CONC CU YD	STEEL LB	CONC CU YD	STEEL LB	CONC CU YD	STEEL LB		
12"	0.79	1.00	48	1.09	49	1.10	49	1.14	50	1.41	59	1.52	62	1.58	64	1.73	67	10'	1" - 2"	4'	3"	3' - 3 1/4"	10'	1" - 2 1/4"	5'	3' - 3 1/4"	10'	1" - 2 1/4"	5'	3' - 3 1/4"							
15"	1.32	1.55	54	1.45	58	1.47	59	1.52	60	1.80	70	1.93	73	2.01	75	2.18	79	10 1/4"	1" - 2 1/4"	5'	3' - 3 1/4"	10 1/4"	1" - 2 1/4"	5'	3' - 3 1/4"	10 1/4"	1" - 2 1/4"	5'	3' - 3 1/4"								
18"	1.77	1.82	69	1.77	73	1.80	74	1.85	75	2.15	85	2.31	89	2.40	91	2.58	94	10 1/4"	1" - 2 1/4"	5'	3' - 3 1/4"	10 1/4"	1" - 2 1/4"	5'	3' - 3 1/4"	10 1/4"	1" - 2 1/4"	5'	3' - 3 1/4"								
21"	2.41	1.95	77	2.13	82	2.15	83	2.23	85	2.59	95	2.79	101	2.90	103	3.13	108	10 1/4"	1" - 2 1/4"	5'	3' - 3 1/4"	10 1/4"	1" - 2 1/4"	5'	3' - 3 1/4"	10 1/4"	1" - 2 1/4"	5'	3' - 3 1/4"								
24"	3.14	2.27	96	2.48	102	2.52	103	2.60	105	3.01	116	3.24	122	3.37	125	3.64	131	10 1/4"	1" - 3"	8'	4' - 5"	10 1/4"	1" - 3"	8'	4' - 5"	10 1/4"	1" - 3"	8'	4' - 5"								
27"	3.96	2.82	105	2.86	111	2.90	112	3.00	114	3.44	127	3.67	133	3.80	136	4.08	144	10 1/4"	1" - 3"	8'	4' - 5"	10 1/4"	1" - 3"	8'	4' - 5"	10 1/4"	1" - 3"	8'	4' - 5"								
30"	4.91	3.08	117	3.37	123	3.41	124	3.54	127	4.07	141	4.38	148	4.55	152	4.90	160	10 1/4"	1" - 3"	8'	4' - 5"	10 1/4"	1" - 3"	8'	4' - 5"	10 1/4"	1" - 3"	8'	4' - 5"								
33"	5.94	3.50	125	3.82	132	3.87	134	3.98	137	4.62	153	4.98	160	5.17	164	5.56	172	10 1/4"	1" - 4"	10'	5' - 4"	10 1/4"	1" - 4"	10'	5' - 4"	10 1/4"	1" - 4"	10'	5' - 4"								
36"	7.07	3.93	161	4.29	169	4.34	171	4.47	174	5.19	190	5.59	200	5.80	204	6.24	213	1" - 4"	10'	5' - 4"	1" - 4"	10'	5' - 4"	1" - 4"	10'	5' - 4"	1" - 4"	10'	5' - 4"								

QUANTITIES SHOWN BELOW ARE FOR ONE HEADWALL.

RCP/HDPE SIZE DIA.	LENGTH OF REINFORCING BARS																										
	SINGLE RCP/HDPE												DOUBLE RCP/HDPE														
	0°-45°						15°						30°						45°								
	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			
12"	0°-45°	0°	15°	30°	45°	0°	15°	30°	45°	0°-45°	0°	15°	30°	45°	0°-45°	0°	15°	30°	45°	0°-45°	0°	15°	30°	45°			
12"	0.62	0.8	2.64	-9	2.65	-2	2.65	-4	2.65	-7	2.61	-7	1.0	-5	1.0	-5	1.0	-5	1.0	-5	1.0	-5	1.0	-5			
15"	0.63	-1	2.68	2.66	-6	2.66	-8	2.67	2.62	-1	1.0	-11	1.0	-10	1.0	-12	1.0	-13	1.0	-13	7.63	-1	2.68	-5	2.69	-7	
18"	0.63	-4	2.67	2.67	-5	2.67	-10	2.68	-2	4.62	-5	2.62	-3	2.63	-1	2.62	-2	2.63	-2	2.63	-5	7.63	-4	2.69	-6	2.70	-8
21"	0.63	-8	2.68	2.68	-2	2.68	-7	2.69	-7	4.63	-2	2.63	-2	2.64	-2	2.63	-1	2.63	-3	2.63	-5	7.63	-8	2.69	-6	2.70	-10
24"	0.63	-12	2.69	2.69	-10	2.69	-11	2.70	-11	4.63	-2	2.63	-2	2.64	-2	2.63	-1	2.63	-3	2.63	-5	7.63	-12	2.69	-6	2.70	-14
27"	0.64	-16	2.70	2.70	-11	2.71	-11	2.71	-12	4.63	-5	2.63	-4	2.64	-4	2.63	-3	2.63	-4	2.64	-4	9.63	-16	2.70	-7	2.71	-17
30"	0.64	-20	2.71	2.71	-12	2.72	-12	2.72	-13	4.64	-5	2.63	-10	2.63	-9	2.63	-5	2.63	-6	2.64	-6	9.64	-20	2.71	-8	2.72	-21
33"	0.64	-24	2.72	2.72	-13	2.73	-13	2.73	-14	4.64	-3	2.64	-1	2.65	-3	2.64	-5	2.64	-6	2.65	-7	9.64	-24	2.72	-9	2.73	-25
36"	0.65	-28	2.73	2.73	-14	2.74	-14	2.74	-15	4.64	-3	2.64	-1	2.65	-3	2.64	-5	2.64	-6	2.65	-7	9.64	-28	2.73	-10	2.74	-29

NOTES:

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

SHEET 2 OF 2

NEVADA DEPARTMENT OF TRANSPORTATION
CULVERT HEADWALLS
12" TO 36" RCP/HDPE

Signed Original On File R-2.5.1 (502)
CHIEF HYDRAULICS ENGINEER

THM ENTERPRISE LLC
10855 PARK RUN DRIVE SUITE #220
LAS VEGAS, NV 89144
(702) 855-5520 FAX: (702) 362-5233

TANEY ENGINEERING
6033 S. STEEP HILL
LAS VEGAS, NV 89144
(702) 362-8844 FAX: (702) 362-5233

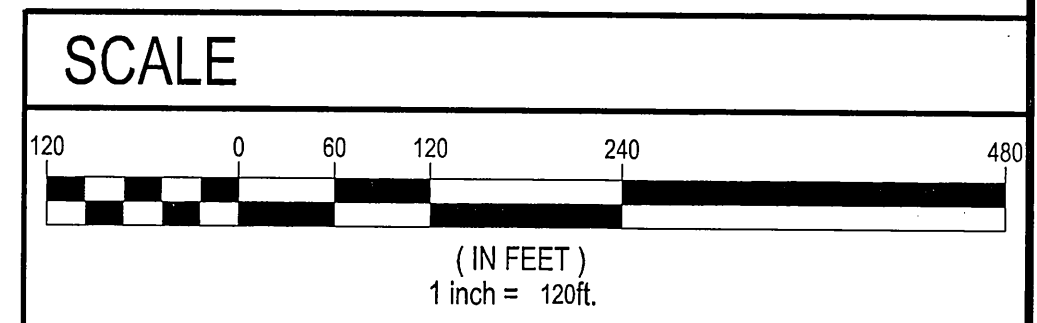
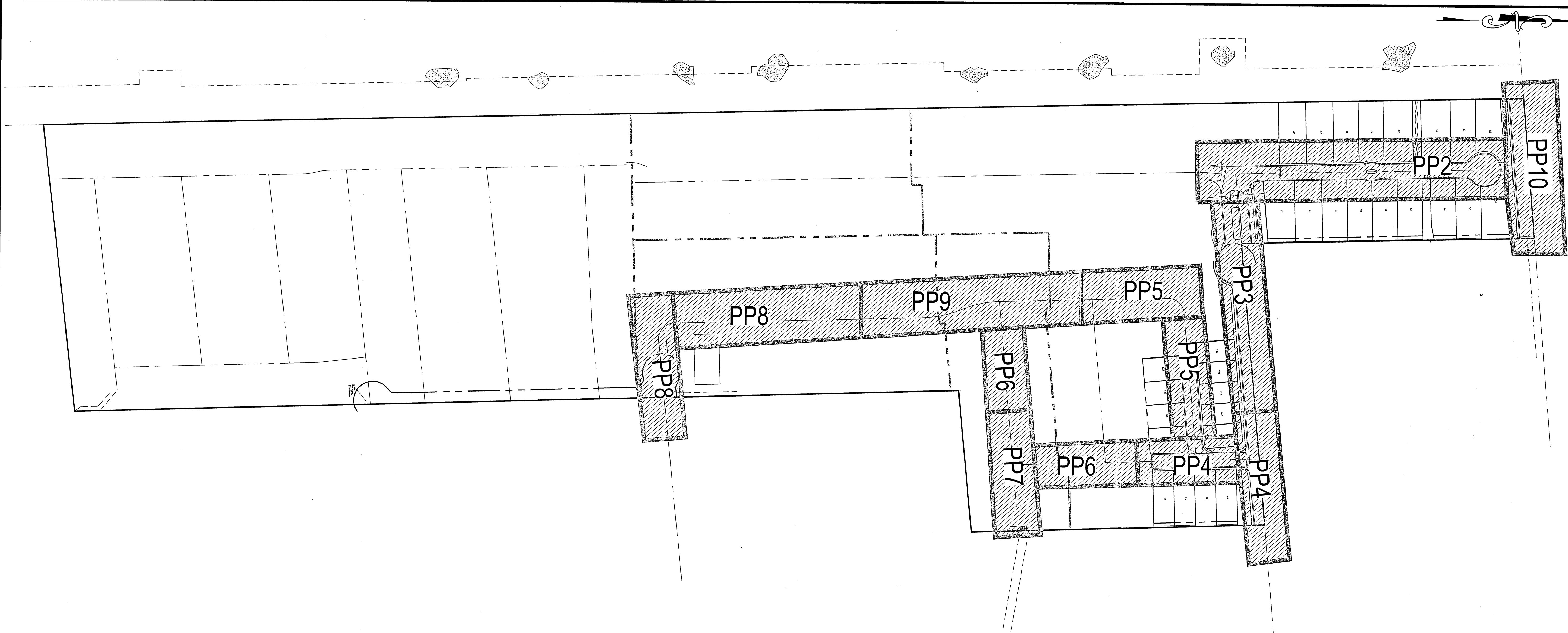
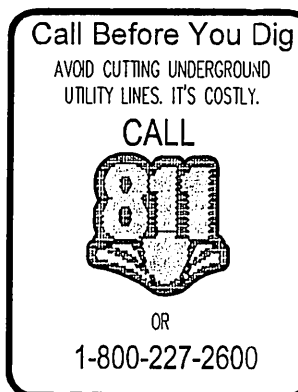
PEACEFUL RIDGE - PHASE 1
LOVE MOUNTAIN & PULI
A RESIDENTIAL SUBDIVISION

TITLE 1
TITLE 2
TITLE 3

ROBERT D. CUNNINGHAM
Exp. 12-31-14
CIVIL
No. 15726
ENGINEER'S SEAL

DATE: 7/2/2013
SCALE: 1"=4'S
JOB NO: AST-12-002
DESIGNED BY: SF
CHECKED BY: MC
SHEET NAME: GD4
SHEET: 14 OF 22
CLV 0000000

FILE NAME: P&P 1-5.DWG



EARTHWORK

TOTAL FOR OVERALL DEVELOPMENT: 294,814 CY CUT
278,864 CY FILL

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

UTILITY DISCLAIMER NOTE

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

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

LEGAL DESCRIPTION

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

BENCHMARK

PROJECT VERTICAL DATUM: NAVD83
CITY OF LAS VEGAS BENCHMARK 1LV09-1W6
NAVD83 ELEV. 895.000M/2936.55 FT
RIVET AND PLATE IN TOP OF CURB AT NORTHEAST
CORNER OF CLIFF SHADOWS AND DIEGOVILLE.

BASIS OF BEARINGS

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

GEOTECHNICAL

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

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

GRADING NOTES

ADD 2800 FEET TO ALL GRADE TAGS TO GET ACTUAL ELEVATION.

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

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

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

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

FLOOD ZONE

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

THM ENTERPRISE LLC		PEACEFUL RIDGE - PHASE 1		KEY MAP FOR PLAN & PROFILE	
10655 S. KAY AVE. SUITE #200 LAS VEGAS, NV 89144 (702) 853-6320 FAX: ---		LONE MOUNTAIN & PULI A RESIDENTIAL SUBDIVISION		LONE MOUNTAIN & PULI A RESIDENTIAL SUBDIVISION	
NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION
1	PP1	1	PP1	1	PP1
2	PP2	2	PP2	2	PP2
3	PP3	3	PP3	3	PP3
4	PP4	4	PP4	4	PP4
5	PP5	5	PP5	5	PP5
6	PP6	6	PP6	6	PP6
7	PP7	7	PP7	7	PP7
8	PP8	8	PP8	8	PP8
9	PP9	9	PP9	9	PP9
10	PP10	10	PP10	10	PP10

DATE: 7/2/2013

SCALE: 1"=120'

JOB NO: AST-12-002

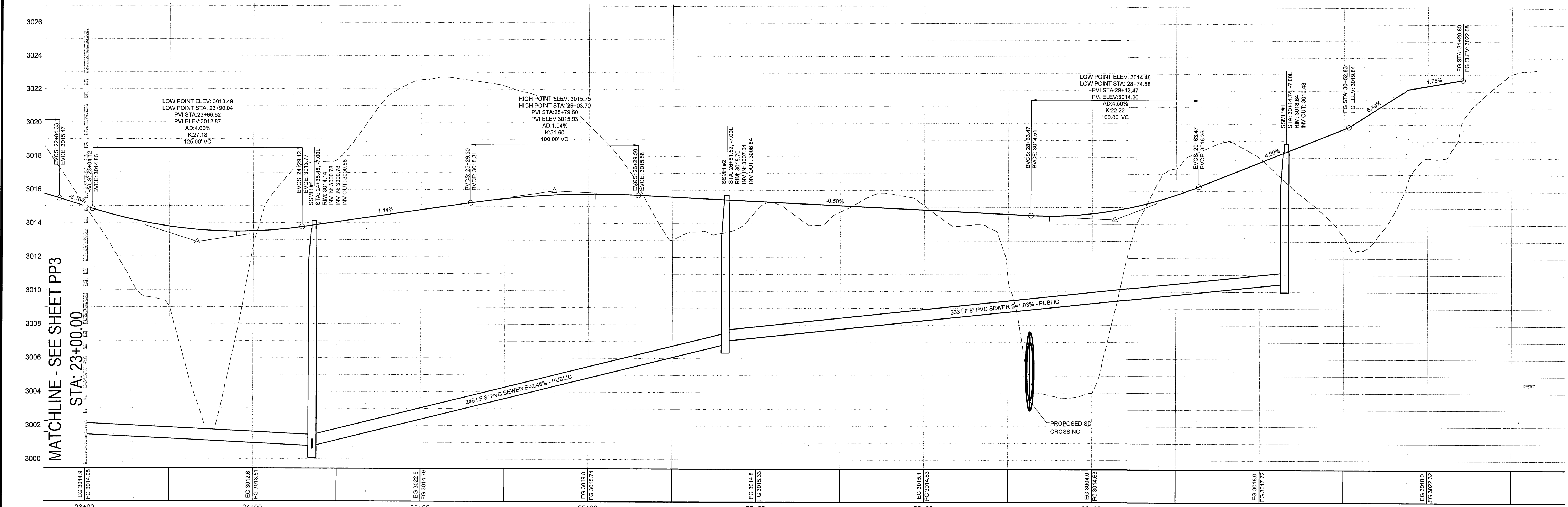
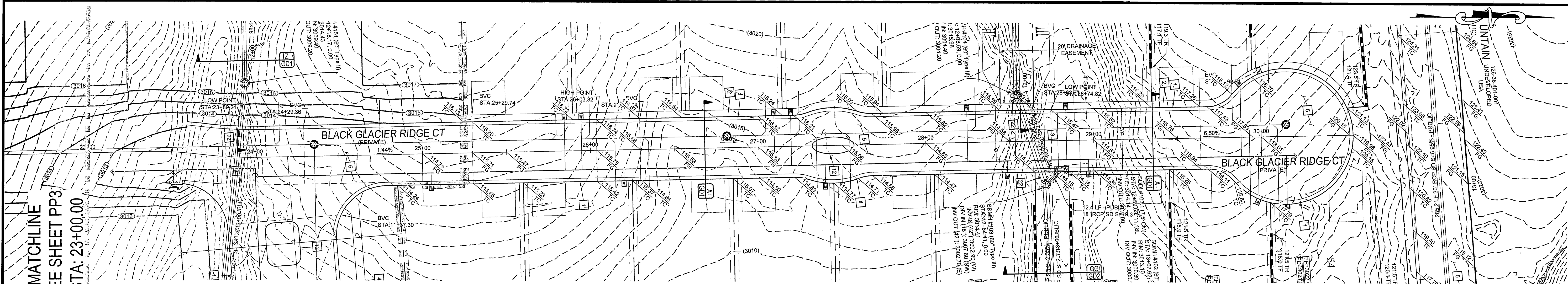
DESIGNED BY: SF

CHECKED BY: MC

SHEET NAME: PP1

SHEET: 15 OF 22

CLV 0000000



- ### CONSTRUCTION NOTES
- 24" L-TYPE CURB & GUTTER (USD #216)
 - 4" SIDEWALK (USD #234)
 - 8" CROSS GUTTER (USD #226)
 - 5" SIDEWALK (USD #234)
 - AC PAVEMENT OVER TYPE II (PER GEOTECHNICAL REPORT)
 - SAWCUT & MATCH EXISTING AC PAVEMENT
 - SIDEWALK RAMP USING ARMOR TILE TRUNCATED DOMES OR EQUIVALENT (USD #235)
 - RESIDENTIAL DRIVEWAY (USD #223)
 - SIDEWALK UNDERDRAIN (USD #236)
 - 3" CONCRETE FLUME (SEE DETAIL AA/GD2)
 - A-TYPE CURB (USD #219)
 - INSTALL WROUGHT IRON FENCE AND ACCESS GATE
 - 5" CONCRETE FLUME (SEE DETAIL BB/GD1)
 - RIPRAP: D50=12", THICKNESS=24" (SEE DETAIL AAA/GD4)
 - 2" CURB OPENING (SEE DETAIL RR/GD2)
 - 8" X 4" BUBBLER STRUCTURE W/ (2) 4" X 4" GRATES (SEE DETAIL ZZ/GD4)
 - 24" X 16" BLOCK WALL OPENING (SEE DETAIL CCC/GD2)
 - GRUNTED RIPRAP: D50=18", THICKNESS=36"
 - NDOT HEADWALL (SEE DETAIL YY/GD4)
 - 4" COMPACTED TYPE II AGGREGATE
 - INSTALL REMOVABLE LOCKING BOLLARDS (SEE DETAIL GGG/GD3)

BLACK GLACIER RIDGE CT. - PROFILE

STA: 23+00.00 TO 30+00.00
SCALE: 1"=30' HORIZ., 1"=3' VERT.

GEOTECHNICAL

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

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

GRADING NOTES

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

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

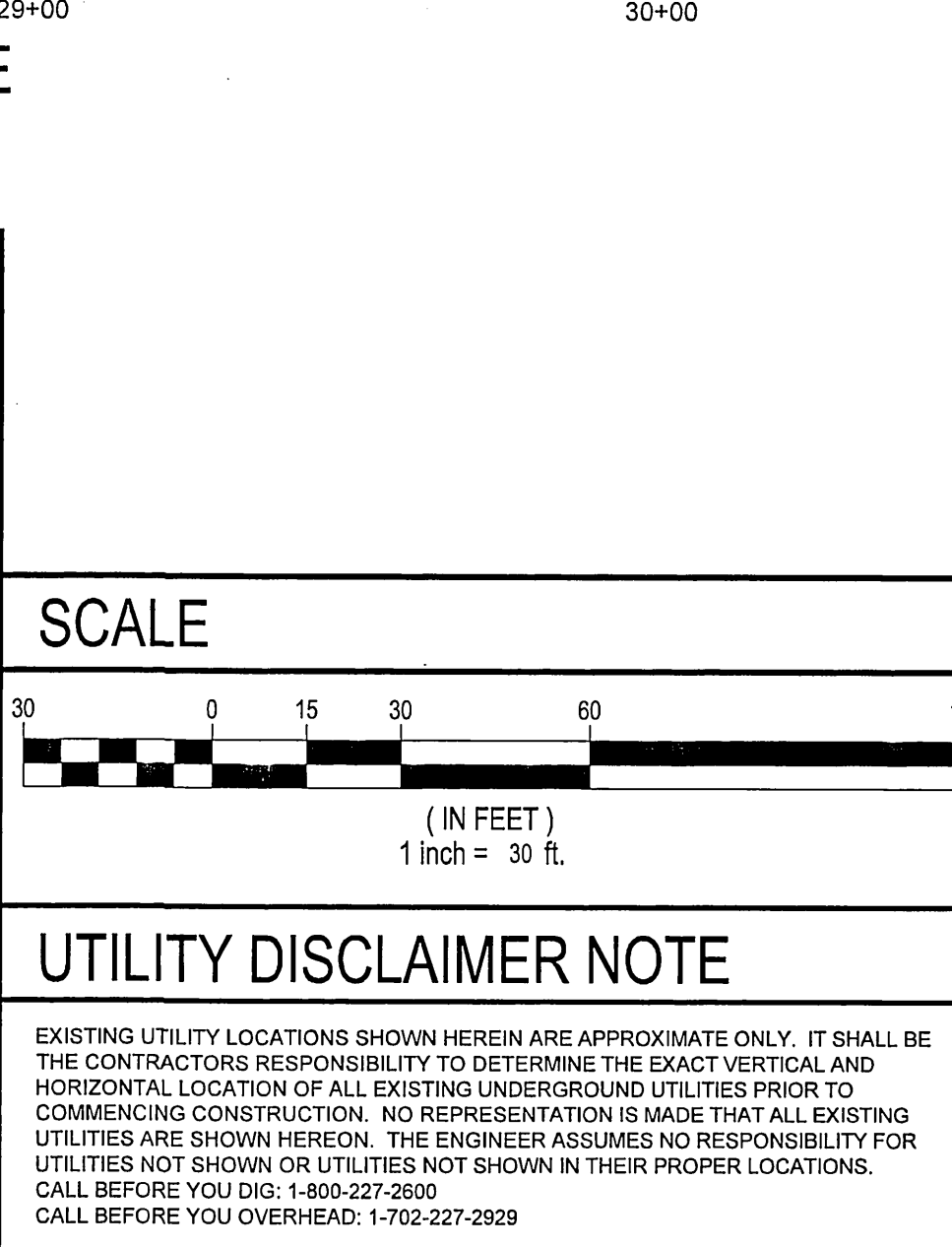
ALL PRIVATE STREETS AND DRAINAGE EASEMENTS ARE TO BE PRIVATELY OWNED AND MAINTAINED BY THE HOMEOWNERS ASSOCIATION (H.O.A.).

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

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

FLOOD ZONE

THIS PROJECT IS LOCATED IN FLOODZONE "X" WHICH IS AN AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN PER FIRM PANEL 32003C2150C, MAP REVISED SEPTEMBER 27, 2002



LEGAL DESCRIPTION

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

BENCHMARK

PROJECT VERTICAL DATUM: NAVD88
CITY OF LAS VEGAS BENCHMARK FLV09-1W6
NAVD88 ELEV: 895.0609M 2936.55 FT
RIVET AND PLATE IN TOP OF CURB AT NORTHEAST
CORNER OF CLIFF SHADOWS AND DIEGOVILLE.

BASIS OF BEARINGS

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

APPROVAL BLOCK

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

THM ENTERPRISE LLC		TANEY ENGINEERING	
10655 PARK RUN DRIVE SUITE #230 LAS VEGAS, NV 89114 (702) 853-6320 FAX: (702) 982-5233		6835 S. JONES BLVD STE 100 LAS VEGAS, NV 89114 (702) 853-6320 FAX: (702) 982-5233	
PEACEFUL RIDGE - PHASE 1 LONE MOUNTAIN & PULI A RESIDENTIAL SUBDIVISION		BLACK GLACIER RIDGE CT PLAN & PROFILE STA: 23+00.00 TO 30+00.00	
DATE: 7/2/2013		DATE: 7/2/2013	
SCALE: 1"=30'		SCALE: 1"=30'	
JOB NO: AST-12-002		JOB NO: AST-12-002	
DESIGNED BY: SF		DESIGNED BY: SF	
CHECKED BY: MC		CHECKED BY: MC	
SHEET NAME: PP2		SHEET NAME: PP2	
SHEET: 16 OF 22		SHEET: 16 OF 22	
CLV 0000000		CLV 0000000	

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.

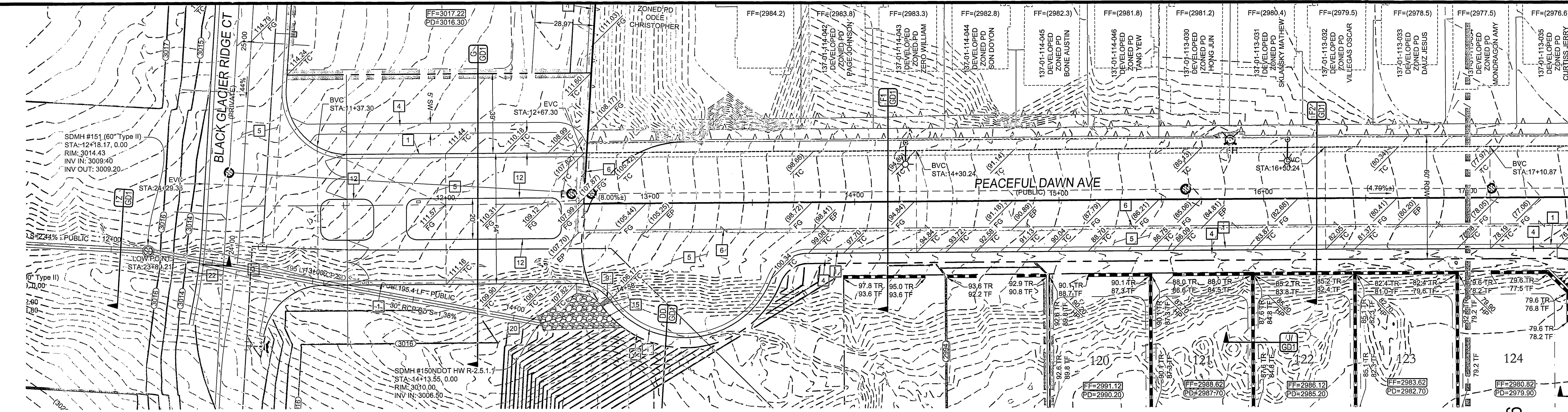
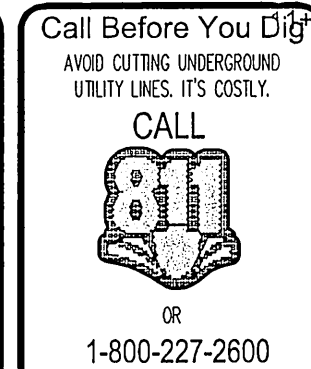
CALL BEFORE YOU DIG OVERHEAD

1-702-227-2929

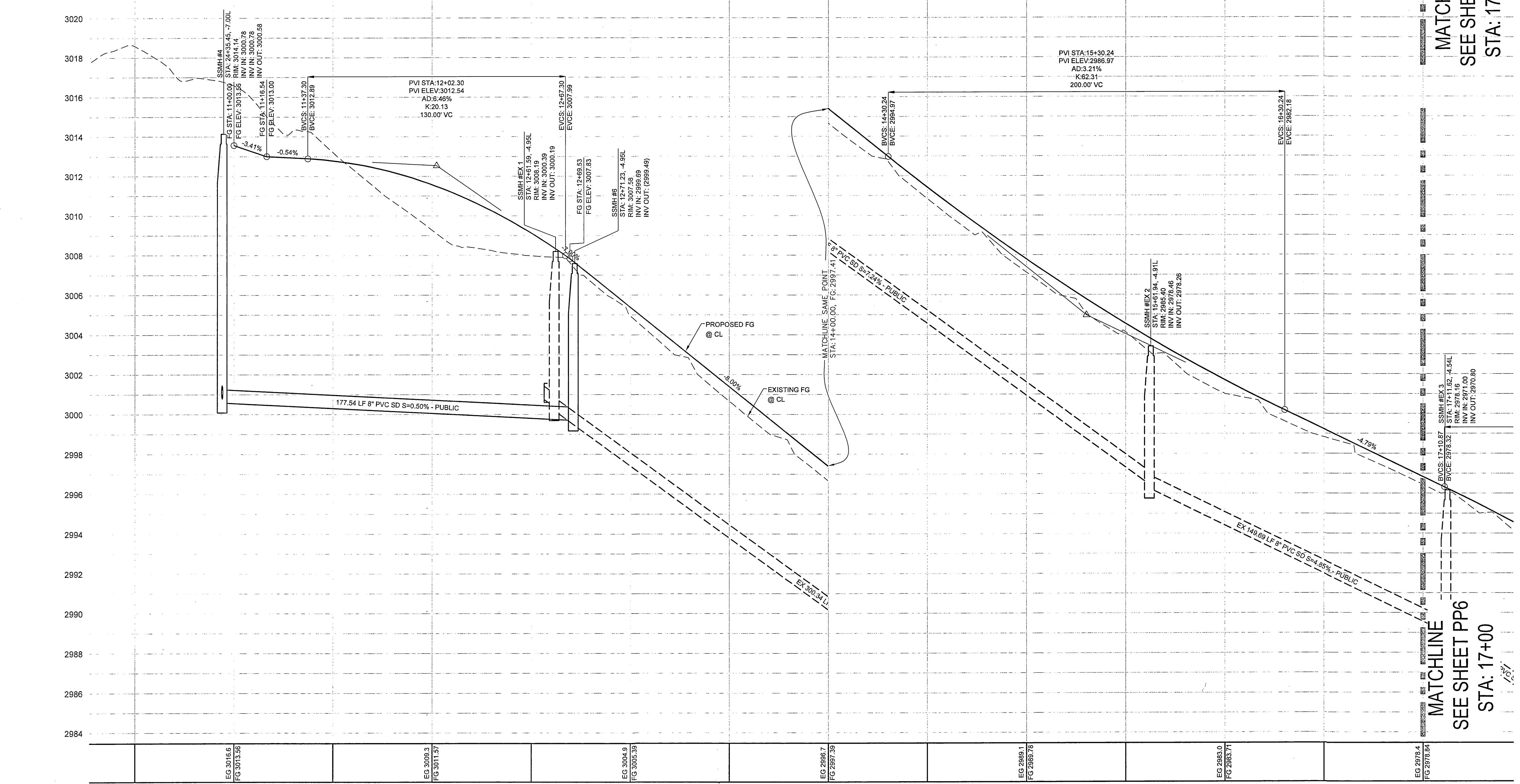
AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.

CALL BEFORE YOU DIG UNDERGROUND

1-800-227-2600



PEACEFUL DAWN AVE - PLAN
STA: 11+00.00 TO 17+00.00



PEACEFUL DAWN AVE - PROFILE
STA: 11+00.00 TO 17+00.00
SCALE: 1"=30' HORIZ., 1"=3' VERT.

UTILITY DISCLAIMER NOTE

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

CONSTRUCTION NOTES

- 24" L-TYPE CURB & GUTTER (USD #216)
- 4.0' SIDEWALK (USD #234)
- 8.0' CROSS GUTTER (USD #228)
- 5.0' SIDEWALK (USD #234)
- AC PAVEMENT OVER TYPE II (PER GEOTECHNICAL REPORT)
- SAWCUT & MATCH EXISTING AC PAVEMENT
- SIDEWALK RAMP USING ARMOR TILE TRUNCATED DOMES OR EQUIVALENT (USD #235)
- RESIDENTIAL DRIVEWAY (USD #223)
- SIDEWALK UNDERDRAIN (USD #236)
- 10' MEANDERING SIDEWALK (USD #234)
- 3.0' CONCRETE FLUME (SEE DETAIL AA/GD2)
- A-TYPE CURB (USD #219)
- INSTALL WROUGHT IRON FENCE AND ACCESS GATE
- 5.0' CONCRETE FLUME (SEE DETAIL BB/GD1)
- RIPRAP: D50=12", THICKNESS=24" (SEE DETAIL AAA/GD4)
- 2.0' CURB OPENING (SEE DETAIL RR/GD2)
- 8' X 4' BUBBLER STRUCTURE W/ (2) 4' X 4' GRATES (SEE DETAIL ZZ/GD4)
- 24' X 16' BLOCK WALL OPENING (SEE DETAIL CCC/GD2)
- GROUTED RIPRAP: D50=18", THICKNESS=36"
- NOOT HEADWALL (SEE DETAIL YY/GD4)
- 4" COMPACTED TYPE II AGGREGATE
- INSTALL REMOVABLE LOCKING BOLLARDS (SEE DETAIL GGS/GD3)

SCALE

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

LEGAL DESCRIPTION

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

BENCHMARK

PROJECT VERTICAL DATUM: NAVD88
CITY OF LAS VEGAS BENCHMARK 1LV09-1W6
NAVD88 ELEV: 895.0608M 2936.55 FT
RIVET AND PLATE IN TOP OF CURB AT NORTHEAST CORNER OF CLIFF SHADOWS AND DIEGOVILLE.

BASIS OF BEARINGS

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

GEOTECHNICAL

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

GRADING NOTES

ADD 2900 FEET TO ALL GRADE TAGS TO GET ACTUAL ELEVATION.
THE ELEVATION DIFFERENCE BETWEEN THE PAD AND FINISH FLOOR IS DETERMINED FROM THE MINIMUM THICKNESS REQUIRED PER THE GEOTECHNICAL REPORT. FINISH FLOORS MAY INCREASE DEPENDING ON THE TYPE OF SOIL AND FOUNDATION PLAN USED. NOTE THAT THE STRUCTURAL PLANS & GEOTECHNICAL REPORT SHALL SUPERSEDE THE CIVIL IMPROVEMENT PLANS.
ALL PRIVATE STREETS AND DRAINAGE EASEMENTS ARE TO BE PRIVATELY OWNED AND MAINTAINED BY THE HOMEOWNERS ASSOCIATION (H.O.A.).
ALL WORK TO BE PERFORMED OUTSIDE OF THE PROJECT BOUNDARY AND ON PRIVATE PROPERTY SHALL NOT BE PERFORMED UNTIL WRITTEN PERMISSION AND EASEMENTS HAVE BEEN OBTAINED FROM THE OFFSITE OWNER AND GIVEN TO CITY OF LAS VEGAS.
CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING UTILITIES AND NOTIFY THE DESIGN ENGINEER IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

FLOOD ZONE

THIS PROJECT IS LOCATED IN FLOODZONE "X" WHICH IS AN AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN PER FIRM PANEL 32003C2150E, MAP REVISED SEPTEMBER 27, 2002

APPROVAL BLOCK

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

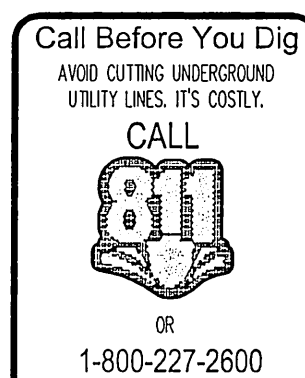
THM ENTERPRISE LLC
10655 PARK RUN DRIVE SUITE #200
LAS VEGAS, NV 89144
(702) 853-5220 FAX: —

TANEY ENGINEERING
6005 W. LAS VEGAS BLVD
LAS VEGAS, NV 89118
(702) 362-8844 FAX: (702) 362-5233

PEACEFUL RIDGE - PHASE 1
LONE MOUNTAIN & PULI
A RESIDENTIAL SUBDIVISION

PEACEFUL DAWN
PLAN & PROFILE
STA: 11+00 TO 17+00

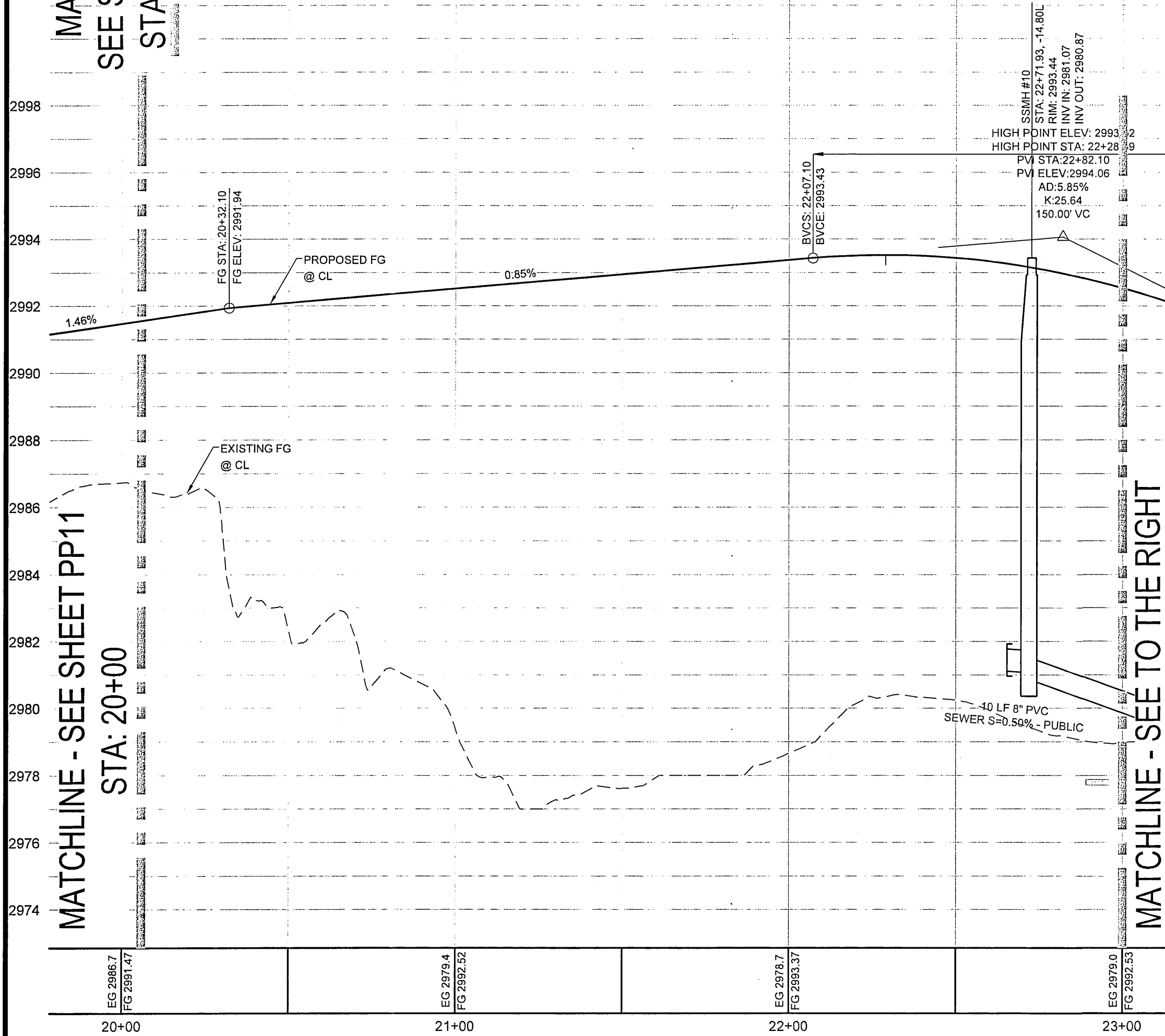
DATE: 7/2/2013
SCALE: 1"=40'
JOB NO: AST-12-002
DESIGNED BY: SF
CHECKED BY: MC
SHEET NAME: PP3
SHEET: 17 OF 22
CLV 0000000



THM ENTERPRISE LLC 10855 PARK BLVD SUITE #230 LAS VEGAS, NV 89144 (702) 853-6320 FAX: ---		TANEY ENGINEERING 6030 S. JONES BLVD STE# 100 LAS VEGAS, NV 89118 (702) 362-8844 FAX: (702) 362-5233	
PEACEFUL RIDGE - PHASE 1 LOVE MOUNTAIN & PULI A RESIDENTIAL SUBDIVISION		PLUM BOTTOM ST PLAN AND PROFILE	
DATE: 7/2/2013		SCALE: 1"=40'	
JOB NO: AST-12-002		DESIGNED BY: SF	
CHECKED BY: MC		SHEET NAME: PP5	
SHEET: 19 OF 22		00000000	



EAGLE NEST PEAK ST - PLAN
STA: 20+00.00 TO 23+00.00

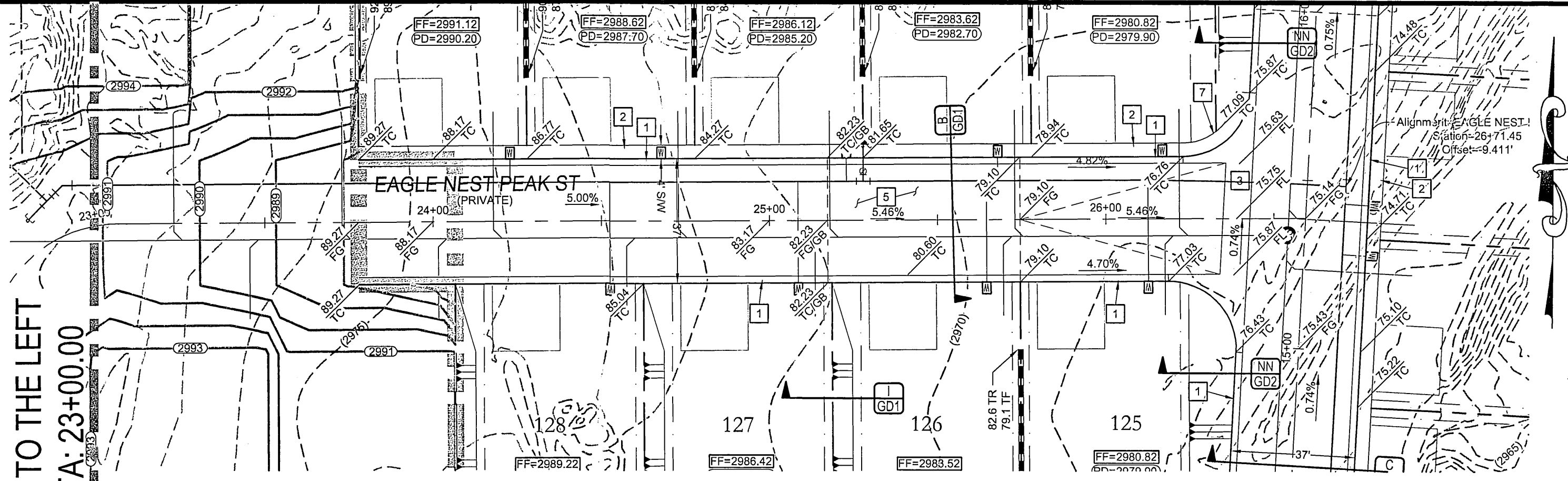


EAGLE NEST PEAK ST - PROFILE
STA: 20+00.00 TO 23+00.00
SCALE: 1"=30' HORIZ., 1"=3' VERT.

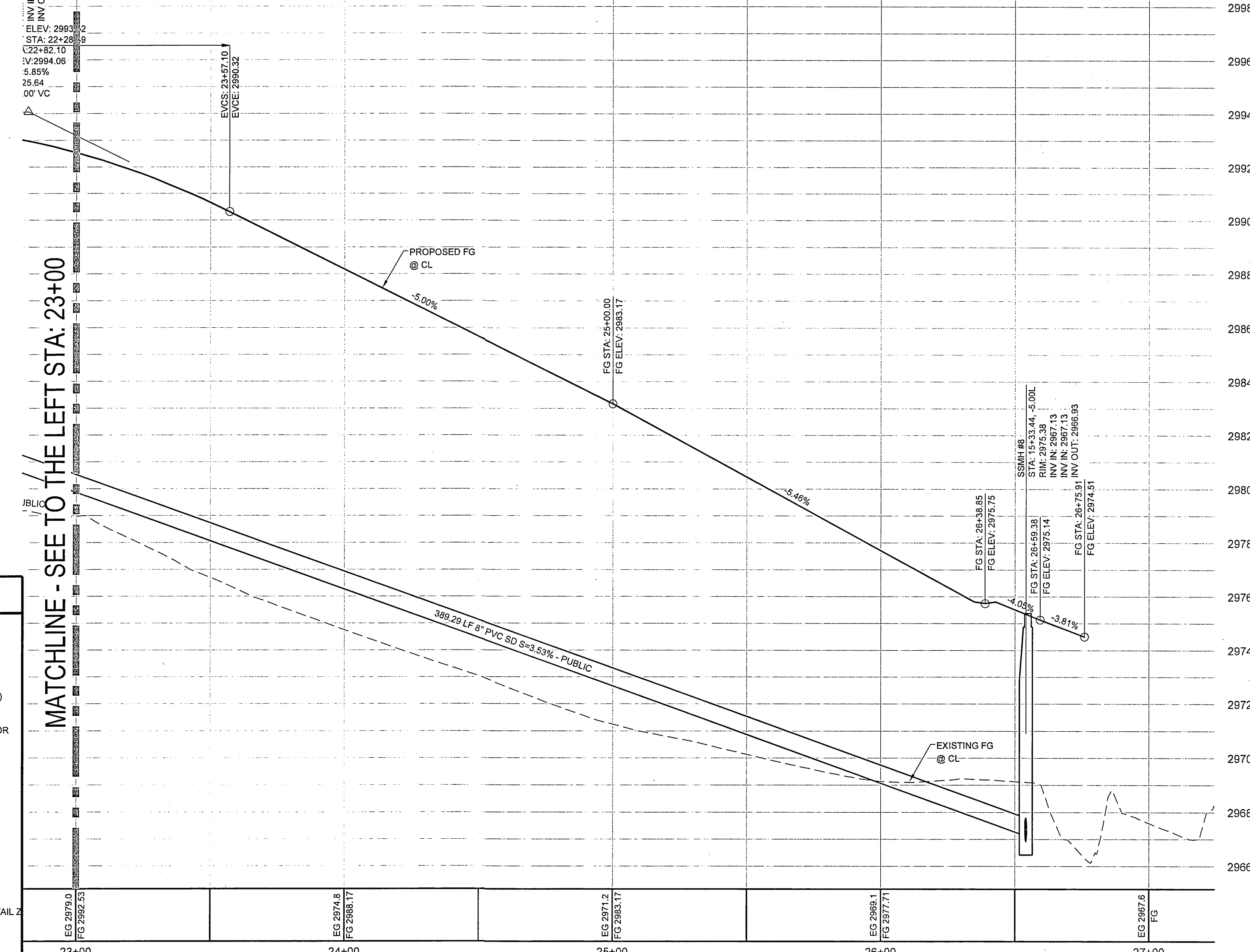
CONSTRUCTION NOTES

1. 24" L-TYPE CURB & GUTTER (USD #216)
2. 4" SIDEWALK (USD #234)
3. 8" CROSS GUTTER (USD #228)
4. 5" SIDEWALK (USD #234)
5. AC PAVEMENT OVER TYPE II (PER GEOTECHNICAL REPORT)
6. SAWCUT & MATCH EXISTING AC PAVEMENT
7. SIDEWALK RAMP USING ARMOR TILE TRUNCATED DOMES OR EQUIVALENT (USD #235)
8. RESIDENTIAL DRIVEWAY (USD #223)
9. SIDEWALK UNDERDRAIN (USD #236)
10. 10' MEANDERING SIDEWALK (USD #234)
11. 3" CONCRETE FLUME (SEE DETAIL AA/GD2)
12. A-TYPE CURB (USD #219)
13. INSTALL WROUGHT IRON FENCE AND ACCESS GATE
14. 5" CONCRETE FLUME (SEE DETAIL BB/GD1)
15. RIPRAP: D50=12", THICKNESS=24" (SEE DETAIL AAA/GD4)
16. 2" CURB OPENING (SEE DETAIL RR/GD2)
17. 8" X 4" BUBBLER STRUCTURE W/ (2) 4" X 4" GRATES (SEE DETAIL CC/GD2)
18. 24" X 16" BLOCK WALL OPENING (SEE DETAIL CCC/GD2)
19. GROUTED RIPRAP: D50=18", THICKNESS=36"
20. NOOT HEADWALL (SEE DETAIL YY/GD4)
21. 4" COMPACTED TYPE II AGGREGATE
22. INSTALL REMOVABLE LOCKING BOLLARDS (SEE DETAIL GGG/GD2)

MATCHLINE
SEE TO THE LEFT
STA: 23+00.00



EAGLE NEST PEAK ST - PLAN
STA: 23+00.00 TO 27+00.00



EAGLE NEST PEAK ST - PROFILE
STA: 23+00.00 TO 27+00.00
SCALE: 1"=30' HORIZ., 1"=3' VERT.

GEOTECHNICAL

GEOTEK RESIDENTIAL, LLC
8835 S. ESCONDIDO ST. STE. B
LAS VEGAS, NEVADA 89119
702-897-1424

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

GRADING NOTES

ADD 2800 FEET TO ALL GRADE TAGS TO GET ACTUAL ELEVATION.

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

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

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

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

FLOOD ZONE

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

LEGAL DESCRIPTION

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

BENCHMARK

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

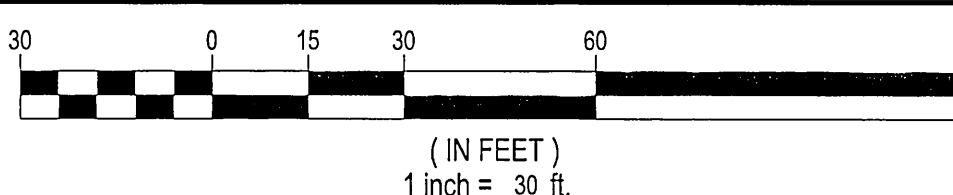
BASIS OF BEARINGS

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

UTILITY DISCLAIMER NOTE

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CALL BEFORE YOU OVERHEAD: 1-702-227-2929

SCALE



APPROVAL BLOCK

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER DATE

THM ENTERPRISE LLC 10655 PARK RUN DRIVE SUITE #230 LAS VEGAS, NV 89144 (702) 853-6320 FAX: ---		TANEY ENGINEERING 600 S. JONES BLVD STE 100 LAS VEGAS, NV 89144 (702) 362-8844 FAX: (702) 362-5233	
PEACEFUL RIDGE - PHASE 1 LONE MOUNTAIN & PULI A RESIDENTIAL SUBDIVISION		EAGLE NEST PEAK PLAN AND PROFILE STA: 20+00 TO 27+00	
DATE: 7/2/2013		SCALE: 1"=40'	
JOB NO: AST-12-002		DESIGNED BY: SF	
CHECKED BY: MC		SHEET NAME: PP6	
SHEET: 20 OF 22		CLV 0000000	



1	24" L-TYPE CURB & GUTTER (USD #216)
2	4.0' SIDEWALK (USD #234)
3	8.0' CROSS GUTTER (USD #228)
4	5.0' SIDEWALK (USD #234)
5	AC PAVEMENT OVER TYPE II (PER GEOTECHNICAL REPORT)
6	SAWCUT & MATCH EXISTING AC PAVEMENT
7	SIDEWALK RAMP USING ARMOR TILE TRUNCATED DOMES OR EQUIVALENT (USD #235)
8	RESIDENTIAL DRIVEWAY (USD #223)
9	SIDEWALK UNDERDRAIN (USD #235)
10	10' MEANDERING SIDEWALK (USD #234)
11	3.0' CONCRETE FLUME (SEE DETAIL AAWG02)
12	A-TYPE CURB (USD #219)
13	INSTALL WROUGHT IRON FENCE AND ACCESS GATE
14	5.0' CONCRETE FLUME (SEE DETAIL BBG01)
15	RIPRAP: D50+12", THICKNESS=24" (SEE DETAIL AAA/GD4)
16	2.0' CURB OPENING (SEE DETAIL RR/G02)
17	8' X 4' BUBBLER STRUCTURE W/ 24" X 4" GRATES (SEE DETAIL ZZ/GD4)
18	24" X 16" BLOCK WALL OPENING (SEE DETAIL CCC/GD2)
19	GROUTED RIPRAP: D50+18", THICKNESS=36"
20	NDOT HEADWALL (SEE DETAIL YY/GD4)
21	4' COMPACTED TYPE II AGGREGATE
22	INSTALL REMOVABLE TYPING BOLLARDS (SEE DETAIL GGG/GD3)

[illegible]

(IN FEET)
1 inch = 30 ft.

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

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

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

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

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

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

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

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

ALL WORK TO BE PERFORMED OUTSIDE OF THE PROJECT BOUNDARY AND ON PRIVATE PROPERTY. NO PERMITS OR EASEMENTS WILL BE OBTAINED OR GRANTED. ALL EASEMENTS HAVE BEEN OBTAINED FROM THE OFFSITE OWNER AND GIVEN TO CITY OF LAS VEGAS.

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

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

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

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

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

LONE MOUNTAIN RD
PLAN AND PROFILE

Professional Engineer
STATE OF NEVADA
REGISTERED
ROBERT D. CUNNINGHAM
Exp. 12-31-14
CIVIL
No. 15725
7/2/13
ENGINEER'S SEAL

DATE: 7/2/2013

SCALE: 1"=30'

JOB NO: AST-12-002

DESIGNED BY: SF

CHECKED BY: MC

SHEET NAME: DD7

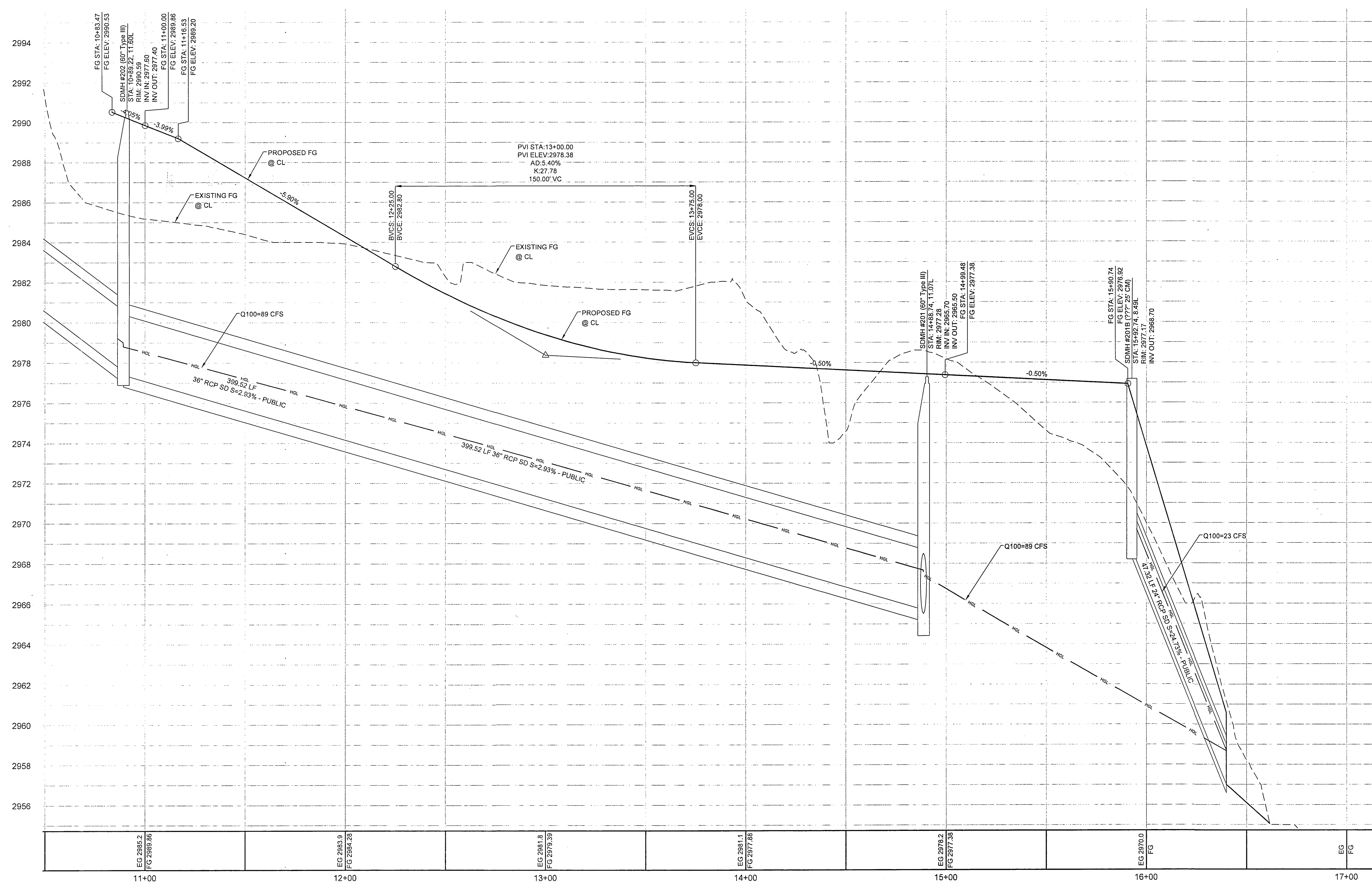
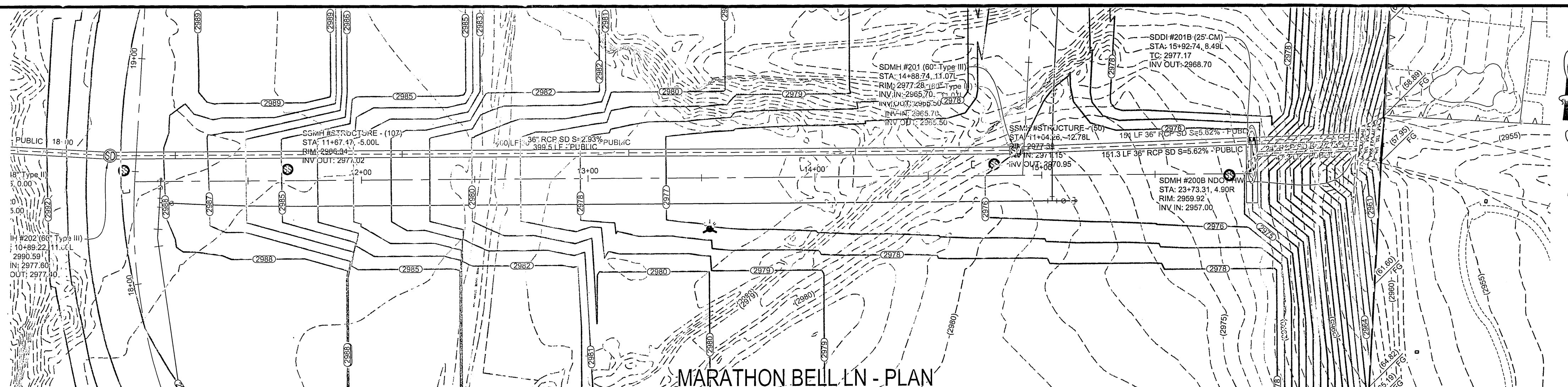
SHEET:

21 OF 22

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CLV	00000000
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FILE NAME: P&P 7-12.DWG



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

UTILITY DISCLAIMER NOTE

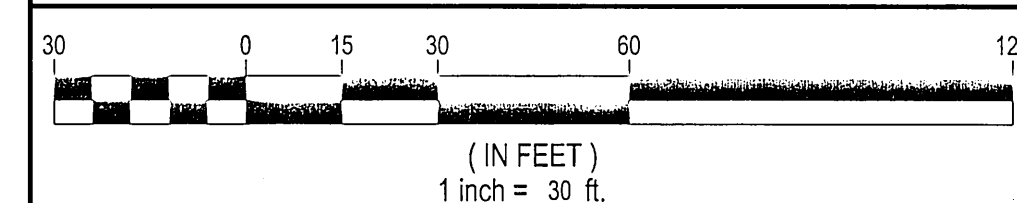
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CALL BEFORE YOU DIG: 1-800-227-2600
CALL BEFORE YOU OVERHEAD: 1-702-227-2929

CONSTRUCTION NOTES

- | | | |
|----|-----|---|
| 1 | --- | 24" L-TYPE CURB & GUTTER (USD #216) |
| 2 | --- | 4.0' SIDEWALK (USD #234) |
| 3 | --- | 8.0' CROSS GUTTER (USD #228) |
| 4 | --- | 5.0' SIDEWALK (USD #234) |
| 5 | --- | AC PAVEMENT OVER TYPE II (PER GEOTECHNICAL REPORT) |
| 6 | --- | SAWCUT & MATCH EXISTING AC PAVEMENT |
| 7 | --- | SIDEWALK RAMP USING ARMOR TILE TRUNCATED DOMES OR EQUIVALENT (USD #235) |
| 8 | --- | RESIDENTIAL DRIVEWAY (USD #223) |
| 9 | --- | SIDEWALK UNDERDRAIN (USD #236) |
| 10 | --- | 10' MEANDERING SIDEWALK (USD #234) |
| 11 | --- | 3.0' CONCRETE FLUME (SEE DETAIL AA/GD2) |
| 12 | --- | A-TYPE CURB (USD #219) |
| 13 | --- | INSTALL WROUGHT IRON FENCE AND ACCESS GATE |
| 14 | --- | 5.0' CONCRETE FLUME (SEE DETAIL BB/GD1) |
| 15 | --- | RIPRAP: D50=12", THICKNESS=24" (SEE DETAIL AAA/GD4) |
| 16 | --- | 2" CURB OPENING (SEE DETAIL RR/GD2) |
| 17 | --- | 8' X 4' BUBBLER STRUCTURE W/ (2) 4' X 4' GRATES (SEE DETAIL ZZ/GD4) |
| 18 | --- | 24" X 16" BLOCK WALL OPENING (SEE DETAIL CCC/GD2) |
| 19 | --- | GRAUTED RIPRAP: D50=18", THICKNESS=36" |
| 20 | --- | NDOT HEADWALL (SEE DETAIL YY/GD4) |
| 21 | --- | 4" COMPACTED TYPE II AGGREGATE |
| 22 | --- | INSTALL REMOVABLE LOCKING BOLLARDS (SEE DETAIL GGG/GD3) |

SCALE



LEGAL DESCRIPTION

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

BENCHMARK

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

BASIS OF BEARINGS

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

GEOTECHNICAL

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

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

GRADING NOTES

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

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

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

FLOOD ZONE

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

APPROVAL BLOCK

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

THM ENTERPRISE LLC
10655 PARK RUN DRIVE SUITE #230
LAS VEGAS, NV 89144

TANEY ENGINEERING
6030 S. JONES BLVD STE# 100
LAS VEGAS, NV 89118
(702) 362-8944 FAX: (702) 362-5233

PEACEFUL RIDGE - PHASE 1
LONE MOUNTAIN & PULI
A RESIDENTIAL SUBDIVISION

DATE: 7/2/2013

SCALE: 1"=30'

JOB NO: AST-12-002

DESIGNED BY: SF

CHECKED BY: MC

SHEET NAME:

PP8
SHEET:
22 OF 22

CLV 00000000

