

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 EDITION; THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA NEVADA", LATEST REVISED EDITION; THE "SUMMERLIN IMPROVEMENT STANDARDS" FOR WORK IN THE SUMMERLIN AREA; AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY; THE UNIFORM BUILDING CODE, AND ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE, EXCEPT AS NOTED ON THIS SHEET AS "DEVIATIONS FROM STANDARDS".

2. THE EXISTENCE AND LOCATION OF ANY OVERHEAD OR UNDERGROUND UTILITY LINES, PIPES, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A RESEARCH OF THE AVAILABLE RECORDS. EXISTING UTILITIES AS SHOWN FROM CLV PLANS LIBRARY ARE APPROXIMATE AND FOR RECORD PURPOSES. EXISTING UTILITIES ARE LOCATED ON PLANS ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. EXISTING UTILITY SERVICE LATERALS MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, LOCATE ALL UNDERGROUND AND OVERHEAD INTERFERENCES WHICH MAY AFFECT HIS PROJECT DURING CONSTRUCTION AND SHALL TAKE THE 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 SUFFICIENTLY TO THE CITY ENGINEER AND OWNING UTILITY COMPANY AT THE EXPENSE OF THE CONTRACTOR.

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

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

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

7. EXPANSION JOINTS REQUIRED, MAXIMUM EVERY 300' IN EXTRUDED-TYPE CURB.

8. AC PAVEMENT TO BE ONE-HALF INCH (1/2") ABOVE LIP OF ALL GUTTERS AFTER COMPLETION, 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 A SMOOTH TRANSITION FACTORY TO THE CITY ENGINEER. 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 _____, REPORT # _____-X
DATE _____XXTH, 20XX _____ 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 INSPECTOR 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 CURBS 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 SIGHTING AT INTERSECTIONS. ELECTRICAL WALLS REQUIRE A SEPARATE PERMIT AND INSPECTION BY THE BUILDING DEPARTMENT.

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

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

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

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

21. PRIOR HAUNCHING AND PRIOR TO BACKFILL OPERATIONS WHICH WOULD COVER SANITARY SEWER AND STORM DRAIN FACILITIES, CONTRACTOR IS REQUIRED TO SUBMIT THE CLV OFF-SITE UTILITY SURVEY INSPECTION REPORT DETERMINATION OF FINAL LOCATION COORDINATES. FACILITIES TO BE LOCATED BY CLV SHALL INCLUDE AT A MINIMUM THE HORIZONTAL AND VERTICAL (INVERT) LOCATION OF PUBLIC SEWER MANHOLES, STORM DRAIN MANHOLES AND TRANSITION STRUCTURES, STORM DRAIN LATERALS AT THE CONNECTION TO STORM DRAIN MAIN AND AT THE CONNECTION TO A DROP INLET, THE CONNECTION OF SEWER SERVICE LATERALS TO THE SEWER MAIN AND WHERE THE SEWER SERVICE LATERALS EXIT THE PUBLIC RIGHT-OF-WAY, SEWER AND STORM DRAIN MAIN ALIGNMENT, INCLUDING DEFLECTION POINTS.

OR

(MAY BE USED ONLY ON PROJECTS ASSOCIATED WITH A TENTATIVE MAP CONTAINING 5 LOTS OR MORE)

22. SANITARY SEWER AND STORM DRAIN FINAL LOCATION MAP(S) SHALL BE PROVIDED TO THE CITY AND APPROVED PRIOR TO ACCEPTANCE OF FACILITY VIDEO INSPECTION. THE MAP(S) SHALL INCLUDE HORIZONTAL AND VERTICAL (INVERT) LOCATION OF PUBLIC SEWER MANHOLES, STORM DRAIN MANHOLES AND TRANSITION STRUCTURES, STORM DRAIN LATERALS AT THE CONNECTION TO THE STORM DRAIN MAIN AND AT THE CONNECTION TO A DROP INLET, THE CONNECTION OF SEWER SERVICE LATERALS TO THE SEWER MAIN AND WHERE THE SEWER SERVICE LATERALS EXIT THE PUBLIC RIGHT-OF-WAY, SEWER AND STORM DRAIN MAIN ALIGNMENT, INCLUDING DEFLECTION POINTS. THE LOCATION SHALL BE DESCRIBED BY COORDINATES WHICH SHALL BE BASED ON THE OFFICIAL HORIZONTAL AND VERTICAL CONTROL NETWORK. THE LOCATION MAP(S) MUST BE SEAL AND CERTIFIED BY A NEVADA PROFESSIONAL LAND SURVEYOR WHO HAVE POSITIONAL CERTAINITIES OF ± 0.09 METERS (± 0.3 FEET) HORIZONTALLY AND VERTICALLY. A SEPARATE ELECTRONIC COORDINATES SHEET SHALL ALSO ACCOMPANY THE SANITARY SEWER AND STORM DRAIN FINAL LOCATION MAP(S).

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

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

2 OF 38 SHTS

[illegible]

AASHTO	AIR	DC	DESIGN GRADE	No.	NUMBER	SECT	SECTION
	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	DI/D.I.	DROP INLET	NOSHA	STATE OF NEVADA OCCUPATIONAL SAFETY AND HEALTH ADMIN.	SF	SQUARE FOOT/FEET
AC	ASPHALT CONCRETE, ACRE	DI, Ø	DIAMETER	NP	NEVADA POWER COMPANY	SHLDR	SHOULDER
ACP	ASBESTOS CEMENT PIPE	DIP	DIP	NTS	NOT TO SCALE	SIS	SEWERLIN IMPROVEMENT STD.
ADD'L	ADDITIONAL	DR	DRIVE	NVE	NV ENERGY	SL	STREET LIGHT
AG	AGGREGATE, BASE	DS	DOWNSPOUT	OB	OVERBUILD	SP	SERVICE POINT
AP	ANGLE POINT	DTL	DETAIL	OC	ON CENTER	SQ	SQUARE
APN	ASSESSOR'S PARCEL NUMBER	DRV, DW	DRIVEWAY	OHC	OVERHEAD COX COMMUNICATION	SR	SEWER RECLAIM MAIN
APPROX	APPROXIMATELY	DWG	DRAWING	PH	OVERHEAD POWER LINE	SS, SSWR	SANITARY SEWER
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	E	EAST	P, PWR	POWER LINE	SSMH	SANITARY SEWER MANHOLE
AVE	AIR VALVE, AIR RELEASE	ECR	END CURB RETURN	PAE	PEDESTRAIN ACCESS EASEMENT	STA	STATION
AVAR	ASSEMBLY	EG	EXISTING GROUND	PB	PULL BOX	ST	STREET
	AMERICAN WATER WORKS ASSOCIATION	ELEC, ELE	ELECTRICAL	PBS	PLANT MIX BITUMINOUS SURFACE	STD	STANDARD
BC	BACK OF CURB	ELEV	ELEVATION	PC	POINT OF CURVE, PRESSURE CLASS	STL	STEEL
BCR	BEGIN CURB RETURN	EP, OP	EDGE OF PAVEMENT EASEMENT	PCC	POINT OF COMPOUND CURVE	STRUCT	STRUCTURE
BLM	BUREAU OF LAND MANAGEMENT	ESMT	EASEMENT	PDE	PORTLAND CEMENT CONCRETE PUBLIC DRAINAGE EASEMENT	SVZ	SIGHT VISIBILITY ZONE
BLVD	BOULEVARD	EVC	END VERTICAL CURVE	PE	PROJECT ENGINEER	SWG	SOUTHWEST GAS TELEPHONE OR TOP
BO	BENCHMARK	EV, EXIST	EXISTING	PE	POLYETHYLENE	TAN	TANGENT
BVCE	BEGIN VERTICAL CURVE	EXP	EXPANSION JOINT	PED	PEDESTRIAN	TB	TOP OF BERM
	BEGIN VERTICAL CURVE STATION	FC	FACE OF CURB	PEL	PROFILE GRADE LINE	TC	TOP OF CURB
BVCS	BEGIN VERTICAL CURVE STATION	FF, FFE	FINISH DOOR ELEVATION	PH	POT HOLE	TCE	TEMPORARY CONSTRUCTION ESMT
BO	BLOW-OFF	FG	FINISH GRADE	PI	POINT OF INTERSECTION	TEL, TELE	TELEPHONE
	BEGIN VERTICAL CURVE ELEVATION	FH	FIRE HYDRANT	PIV	POST INDICATOR VALVE	TEMP	TEMPORARY
	BEGIN VERTICAL CURVE STATION	FL	FLOW LINE	PL, P/L	PROPERTY LINE	TF	TOP OF FOOTING
BW	BACK OF SIDEWALK	FO	FIBER OPTIC	PLCP	POLYURETHANE LINED AND COATED STEEL PIPE	TG	TOP OF GRATE
C, CL	CENTERLINE	FRP	FIBERGLASS REINFORCED PLASTIC	PLT	PLATE	TMH	TOP OF MANHOLE
C&G	CURB & GUTTER	FS	FINISH SURFACE	PMF	PAVEMENT MARKING FILM	TP	TOP OF PIPE
CATV	UNDERGROUND CABLE TV	FT	FOOT/FEET	POB	POINT OF BEGINNING	TOP	TELEPHONE POLE
CCP	CLEAR COUNTRY BENCH MARK	FTG	FOOTING	POC	POINT ON CURVE, POINT OF CONN.	TRANS	TRANSITION
CCPW	CLARK COUNTY PUBLIC WORKS	FUT	FUTURE	POC	POINT ON CURVE, POINT OF CONN.	TR, TRW	TOP OF RETAINING WALL
CCTV	CLOSED-CIRCUIT TELEVISION	G	GAS	PO	POINT OF TANGENT	TS	TEST STATION
CCWRD	CLARK COUNTY WATER RECLAMATION DISTRICT	GA	GAGE, GUY ANCHOR	PP	POWER POLE	TSW	TOP OF SCREEN WALL
	COMMON ELEMENT	GB	GRADE BREAK	PRC	POINT OF REVERSE CURVE	TS&V	TAPPING SLEEVE & VALVE
CFS	CUBIC FEET PER SECOND	GND	GROUND	PRVC	POINT OF REVERSE VERTICAL CURVE	TY	TYPICAL
CIP	CAPITAL IMPROVEMENTS	GRD	GRADE, GROUND	PROP	PROPOSED	UDACS	UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (LATEST ED.)
	PROJECT, CORRUGATED IRON PIPE CURED-IN-PLACE MANHOLE	H, HGT	HEIGHT	PSI	POUNDS PER SQUARE INCH	UG	UNDERGROUND
CL	CLEAR	HOWL	HEADWALL	PT	POINT OF TANGENCY	ULT	ULTIMATE
CIR	CIRCLE OR CLEARANCE	HORIZ	HORIZONTAL	PUB	PUBLIC	UNIFORM STD, DRAWINGS FOR	PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS (LATEST EDITION)
CLSM	CONTROLLED LOW STRENGTH MATERIAL	HPS	HIGH PRESSURE SODIUM	PUE	PUBLIC UTILITY EASEMENT	USDOCCA, V	VAR
CLV	CITY OF LAS VEGAS	IBC	INTERNATIONAL BUILDING CODE	PVE	PRIVATE DRAINAGE EASEMENT	USDOCCA, V	VAR
CMU	CORRUGATED METAL PIPE	INV	INVERT	PVI	POINT OF VERTICAL INTERSECTION	USDOCCA, V	VAR
CMU	CONCRETE MASONRY UNIT	INT	INTERM	PVT	PAVEMENT	USDOCCA, V	VAR
CNLY	CITY OF NORTH LAS VEGAS	JOINT	JOINT	PVY	PRIVATE DRAINAGE EASEMENT	USDOCCA, V	VAR
CO	CLEANOUT	L	LENGTH	R, RAD	RADIAL, RADIUS	USDOCCA, V	VAR
CONC	CONCRETE	LT	LEFT	RCB	REINFORCED CONCRETE BOX	USDOCCA, V	VAR
COND	CONDUIT	LF	LINEAR FEET	RCP	REINFORCED CONCRETE PIPE	USDOCCA, V	VAR
CONST	CONSTRUCT OR CONSTRUCTION	LP	LOW OF GUTTER	RD	ROAD	USDOCCA, V	VAR
COORD	COORDINATE	LN	LANE	RDWY	ROADWAY	USDOCCA, V	VAR
CR	CORNER	LS	LANDSCAPE	REC	RECTANGULAR	USDOCCA, V	VAR
CPEP	CORRUGATED POLYETHYLENE PIPE	LS, LSOP	LANDSCAPE	REF	REFERENCE	USDOCCA, V	VAR
CPR	COPPER	LVWVD	LAS VEGAS VALLEY WATER DISTRICT	REIN	REINFORCED	USDOCCA, V	VAR
CT	COURT	MAX	MAXIMUM	REQD	REQUIRED	USDOCCA, V	VAR
CY	CUBIC YARD(S)	MIN	MINIMUM	RIM	TOP OF RIM ELEVATION	USDOCCA, V	VAR
A	DELTA	MTMCP	MORTAR LINED TAPE & MORTAR	RND	ROUND	USDOCCA, V	VAR
DBL	DOUBLE	MOD	MODIFIED	R/W, ROW	RIGHT OF WAY	USDOCCA, V	VAR
DCSWCS	DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEM (LATEST ED.)	MON	MONUMENT	RP	RADIUS OF POINT	USDOCCA, V	VAR
DE	DRAINAGE EASEMENT	MPH	MILES PER HOUR	RPM	RAISED PAVEMENT MARKERS	USDOCCA, V	VAR
DEFL	DEFLECTION	N	NORTH	RSV	RESILIENT SEAT GATE VALVE	USDOCCA, V	VAR
		N.A.P.	NOT-A-PART	RT	RIGHT	USDOCCA, V	VAR
		NDOT	NEVADA DEPARTMENT OF TRANSPORTATION	S	SEWER, SOUTH	USDOCCA, V	VAR

	TYPICAL EXISTING LINEWORK		DETAIL BUBBLE W/ REF.
	TYPICAL FUTURE LINEWORK		BENCHMARK
	TYPICAL PROPOSED LINEWORK		GATE VALVE
	TYPICAL SIDEWALK AND RAMP W/ CURB & GUTTER		PRESSURE REDUCING VALVE
	CENTERLINE		BACK WATER VALVE
	CONTOUR (MAJOR)		DROP INLET
	CONTOUR (MINOR)		FIRE HYDRANT
	DAYLIGHT GRADING		WATER METER
	EASEMENT LINE		WATER RPPA
	EDGE OF PAVEMENT		WATER RPDA
	ENCASEMENT (CONC OR STL)		TRAFFIC SIGNAL PULL BOX
	FENCE (CHAIN LINK)		STREET LIGHT CLARK COUNTY
	FENCE (WROUGHT IRON)		STREET LIGHT SUMMERLIN STD
	FENCE (POST & CABLE)		TRAFFIC SIGNAL/FLASHER
	FLOWLINE		EXISTING TELE POLE
	GRADE BREAK		EXISTING POWER POLE
	HYDRAULIC GRADE LINE		EXISTING POLE
	IRRIGATION SLEEVE		EX. ELEC MARKER
	LOTLINE		TRANSFORMER PAD
	PEDESTRIAN ACCESS		SERVICE PEDESTAL
	PROPERTY LINE/BOUNDARY		PULLBOX
	RETAINING WALL		PROPOSED CONTOUR
	RIGHT-OF-WAY LINE		EXISTING CONTOUR
	ROCKERY WALL		PROPOSED SPOT ELEVATION
	SAWCUT		EXISTING SPOT ELEVATION
	SCARPLINE		PROPOSED SLOPE
	SCREEN OR GROUTED WALL		TOE SLOPE
	SEWER LINE W/ MANHOLE		SLOPE DIRECTION
	SIGHT VISIBILITY ZONE		TOP SLOPE
	STORM LINE W/ MANHOLE		TOE SLOPE
	SWALE FLOWLINE		FINISH FLOOR ELEVATION
	WATER LINE W/ GATE VALVE		
	EX. CABLE TV		
	EX. ELECTRICAL		
	EX. ELEC & PWR POLES		
	EX. GAS LINE		
	EX. OVERHEAD POWER LINES		
	EX. TELEPHONE		

DESCRIPTION	UNIT	PUBLIC	PRIVATE
TYPE II GRAVEL	CY		1,955
2-INCH ASPHALTIC CONCRETE PAVING	SY		14,359
"A" CURB "L" CURB & GUTTER ROLL CURB	LF		9,033
SIDEWALK RAMP	EA		4
COMMERCIAL DRIVEWAY	SF		
CONCRETE CROSS GUTTER	SF		6,750
4-INCH CONCRETE SIDEWALK	SF		5,712
SIDEWALK UNDERDRAIN	EA		
SURVEY MONUMENTS: TYPE II	EA		

DESCRIPTION	UNIT	PUBLIC	PRIVATE
STREETLIGHT (STANDARD BASE)	EA		
STREETLIGHT, DOUBLE ARM (STANDARD BASE)	EA		
TRAFFIC SIGNAL POLE AND LUMINAIRE	EA		
PULLBOX, #3	EA		
STREETLIGHT CONDUIT, 1.25-INCH	LF		
SL 200 AMP SERVICE	EA		
STREET SIGNS	EA		15
8-INCH WIDE WHITE PAINTED LINE	LF		

DESCRIPTION	UNIT	PUBLIC	PRIVATE
18-INCH STORM SEWER PIPE (RCP)	LF		429
30-INCH STORM SEWER PIPE (RCP)	LF		956
36-INCH STORM SEWER PIPE (RCP)	LF		429
48-INCH STORM SEWER PIPE (RCP)	LF		61
7.5-FOOT MOD. TYPE "C" DOPE INLET	EA		4
10.0-FOOT MOD. TYPE "C" DOPE INLET	EA		3
12.5-FOOT MOD. TYPE "C" DOPE INLET	EA		6
24"x24" GRATE DROP INLET	EA		4
60-INCH SD MANHOLE (<6')	EA		13

DESCRIPTION	UNIT	PUBLIC	PRIVATE
6-INCH WATER MAIN (PVC)	LF	698	
8-INCH WATER MAIN (PVC)	LF	3559	
10-INCH WATER MAIN (DIP)	LF	142	
IRRIGATION SLEEVES	LF	110	
FIRE HYDRANT	EA	8	
WATER SERVICE WITH 3/4" METER	EA		168
IRRIG. SERVICE WITH 3/4" METER & 1" RPPA	EA	5	

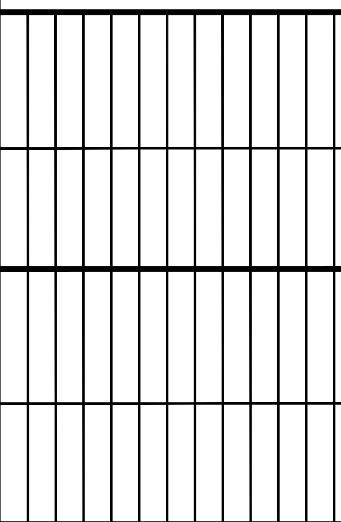
DESCRIPTION	UNIT	PUBLIC	PRIVATE
8-INCH SEWER	LF	3,020	
8-INCH SEWER (C900)	LF	1,113	
SEWER MANHOLE (6' TO 18')	EA	33	
SEWER MANHOLE (>18')	EA	1	
BACKWATER VALVES	EA		61
SEWER SERVICE	EA		168
CONTRACTOR TO FIELD VERIFY SIZE, LOCATION AND INVERT OF EXISTING PIPE, AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO NEW SEWER CONSTRUCTION			

CALL SOUTHWEST GAS AT 702-278-8451 FOR STANDBY WHEN EXCAVATING
(INCLUDING SAW CUTTING AND PAVEMENT REMOVAL) OVER OR NEAR HIGH PRESSURE
GAS LINES 48 HOURS PRIOR TO CONSTRUCTION.

1. IN THE EVENT OF NATURAL GAS EMERGENCIES CALL 911 AND 1-877-860-6020.
2. MINIMUM HORIZONTAL AND VERTICAL CLEARANCES BETWEEN NATURAL GAS FACILITIES AND ANY UNDERGROUND UTILITIES AND/OR STRUCTURES, INCLUDING BUT NOT LIMITED TO WATER, SEWER, STORM DRAIN, COMMUNICATIONS, AND ELECTRIC SHALL BE AT LEAST 12-INCHES OR GREATER AS DICTATED BY LOCAL CODES AND STANDARDS.
 - a) ANY DEVIATION FROM SPECIFIED MINIMUM CLEARANCES MUST BE APPROVED BY ALL AFFECTED UTILITIES AND/OR MUNICIPALITIES
3. FOR VALVE ADJUSTMENT CONTACT 702-528-7855 14 DAYS PRIOR TO CONSTRUCTION
4. FOR ADJUSTMENT OF CATHODIC PROTECTION TEST POINTS CONTACT 702-528-7873 14 DAYS PRIOR TO CONSTRUCTION.
5. IN THE EVENT OF A NATURAL GAS CONFLICT WITH PROPOSED UTILITIES AND STRUCTURES CONTACT 702-365-2099
6. FOR STANDBY WHEN EXCAVATING (INCLUDING SAW CUTTING AND PAVEMENT REMOVAL) OVER OR NEAR HIGH PRESSURE GAS LINES CONTACT 702-278-8451 48 HOURS PRIOR TO CONSTRUCTION.

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT NO. 140344 FIRST APPROVAL DATE: _____

[illegible]

PROJECT NO.
764-204-023

DESIGN: PB
RAWN: PB
HECK: WP
LOT DATE: 05-26-22

GCV
ENGINEERS' SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com

PULTE HOMES
SUMMERLIN - VILLAGE 26 PARCEL L REVERENCE MULTI-FAMILY
PROJECT DATA

DRAWING
PD
3 OF 38 SHTS



MATCH LINE - SEE SHEET GD2



30' 0' 15' 30' 60'

SCALE: 1" = 30'

1	INSTALL 2" AC OVER 4" TYPE II BASE
2	CONSTRUCT 'L' TYPE CURB AND GUTTER PER CCAUSD No. 216
3	CONSTRUCT 10' TRANSITION PER DETAIL 4 ON SHEET D3
4	CONSTRUCT 30" MODIFIED ROLL CURB AND GUTTER PER CCAUSD No. 217.1
5	CONSTRUCT MODIFIED "A" TYPE CURB PER CCAUSD No. 219
6	CONSTRUCT 8" WIDE CROSS GUTTER PER CCAUSD No. 228
7	CONSTRUCT 5" THICK CONCRETE SIDEWALK PER CCAUSD No. 234
8	CONSTRUCT SIDEWALK DRAIN PER CCAUSD No. 236
9	CONSTRUCT SIDEWALK DRAIN PER DETAIL 7 ON SHEET D3
10	CONSTRUCT 2' ROLL CURB OPENING PER DETAIL 8 ON SHEET D3
11	CONSTRUCT 2' WIDE CROSS GUTTER PER DETAIL 9 ON SHEET D3

- | STORM DRAIN CONSTRUCTION NOTES | |
|--------------------------------|--|
| 1 | CONSTRUCT 60" TYPE III MANHOLE PER CCAUSD DWG No. 401 & 406 |
| 2 | CONSTRUCT PRECAST MANHOLE PER CCAUSD DWG No. 401 & 406 |
| 3 | CONSTRUCT 7.5" TYPE "DM2" DROP INLET PER CCAUSD DWG No. 412.1 |
| 4 | CONSTRUCT 10.0" TYPE "DM2" DROP INLET PER CCAUSD DWG No. 412.1 |
| 5 | CONSTRUCT 12.5" TYPE "DM2" DROP INLET PER CCAUSD DWG No. 412.1 |
| 6 | CONSTRUCT 24"x24" GRATE DROP INLET PER CCAUSD DWG No. 412.1 |
| 7 | CONNECTION POINT. SEE DETAIL 6 ON SHEET DT3 |
| 8 | PUBLIC DRAINAGE EASEMENT TO BE PRIVATELY MAINTAINED BY HOA |

1	CONSTRUCT 60" TYPE III MANHOLE PER CCAUSD DWG No. 401 & 406
2	CONSTRUCT PRECAST MANHOLE PER CCAUSD DWG No. 401 & 406
3	CONSTRUCT 7.5" TYPE "DM2" DROP INLET PER CCAUSD DWG No. 412.1
4	CONSTRUCT 10.0" TYPE "DM2" DROP INLET PER CCAUSD DWG No. 412.1
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8	PUBLIC DRAINAGE EASEMENT TO BE PRIVATELY MAINTAINED BY HOA

- | DESCRIPTION | UNIT | PUBLIC | PRIVATE |
|---|------|--------|---------|
| 18-INCH STORM SEWER PIPE (RCP) | LF | | 181 |
| 30-INCH STORM SEWER PIPE (RCP) | LF | | |
| 36-INCH STORM SEWER PIPE (RCP) | LF | | |
| 48-INCH STORM SEWER PIPE (RCP) | LF | | 61 |
| 7.5-FOOT MOD. TYPE "C" DOPE INLET | EA | | |
| 10.0-FOOT MOD. TYPE "C" DOPE INLET | EA | | |
| 12.5-FOOT MOD. TYPE "C" DOPE INLET | EA | | |
| 24"x24" GRATE DROP INLET | EA | | 4 |
| 60-INCH SD MANHOLE (<6') | EA | | |
| CONTRACTOR TO FIELD VERIFY SIZE, LOCATION AND INVERT OF EXISTING PIPE, AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO NEW SEWER CONSTRUCTION | | | |

EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND NO REPRESENTATION IS
MADE THAT ALL EXISTING UTILITIES ARE SHOWN HERON. IT SHALL BE THE
CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY AND POTHOLE EXISTING UTILITIES
PRIOR TO COMMENCING CONSTRUCTION. THE ENGINEER ASSUMES NO RESPONSIBILITY
FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

SOUTH 89°39'55" EAST, BEING THE BEARING OF THE NORTH LINE OF THE NORTHWEST QUARTER (NW 1/4) OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 13, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., AS SHOWN IN FILE 123, PAGE 96 OF PARCEL MAPS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

CLARK COUNTY VERTICAL CONTROL POINT: 0LV09 14SE6
ELEVATION: 973.29 METERS (3193.20 FEET)
RIVET & PLATE IN TOP OF CURB ON NORTH SIDE OF LAKE MEAD 0.4 MILES WEST OF
THOMAS RYAN.
BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

I CERTIFY THAT THE GRADING PLANS ARE IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY ON FILE AT THE CITY OF LAS VEGAS FOR THIS PROJECT.

05/26/2022

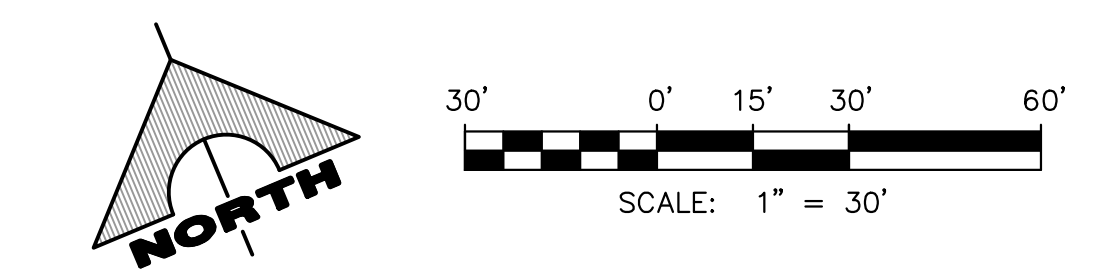
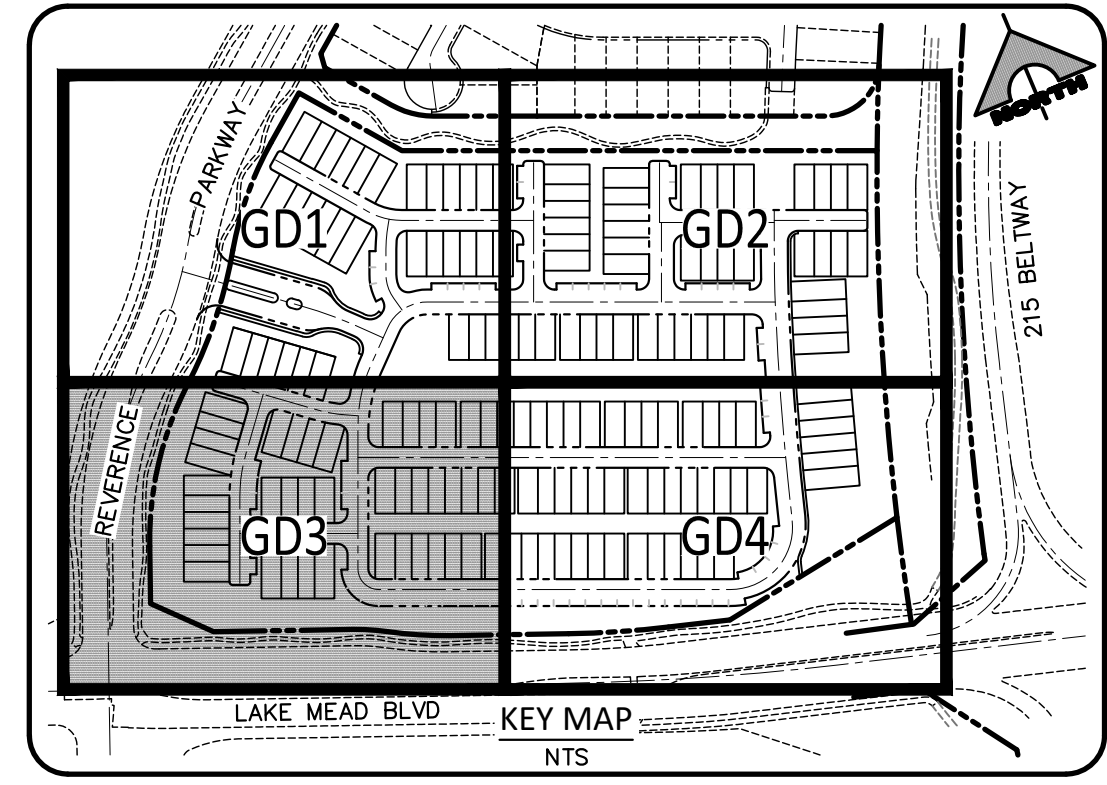
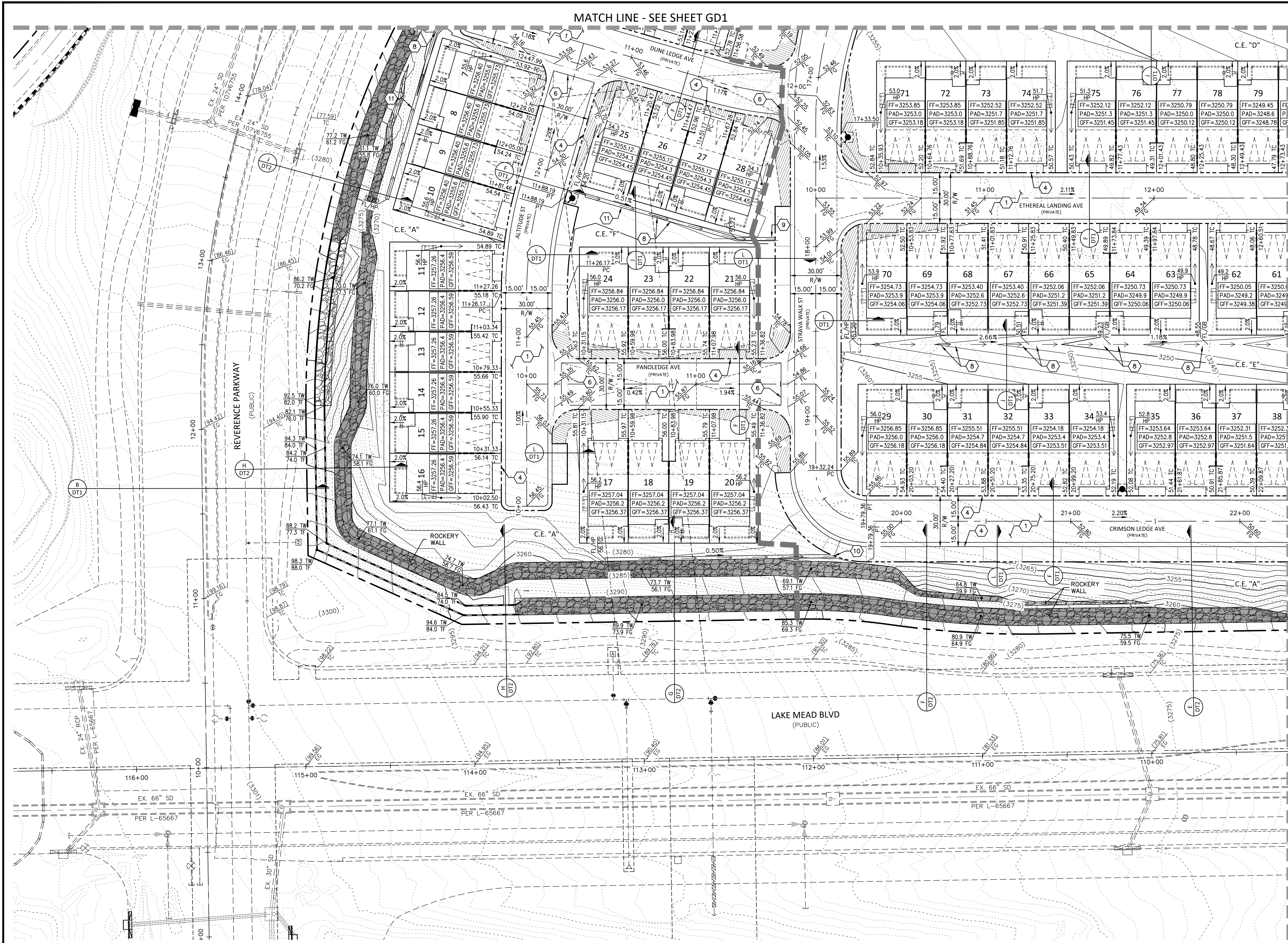
WESLEY T. PETTY, P.E. 16369 DATE

L#: 22-00909	CLV#:
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1-702-227-2929

8 OF 38 SHTS

80% REVIEW - NOT FOR CONSTRUCTION



- ROADWAY CONSTRUCTION NOTES**
1. INSTALL 2" AC OVER 4" TYPE II BASE
 2. CONSTRUCT "L" TYPE CURB AND GUTTER PER CCAUSD No. 216
 3. CONSTRUCT 10' TRANSITION PER DETAIL 4 ON SHEET D3
 4. CONSTRUCT 30" MODIFIED ROLL CURB AND GUTTER PER CCAUSD No. 217.1
 5. CONSTRUCT MODIFIED "A" TYPE CURB PER CCAUSD No. 219
 6. CONSTRUCT 8" WIDE CROSS GUTTER PER CCAUSD No. 228
 7. CONSTRUCT 5" THICK CONCRETE SIDEWALK PER CCAUSD No. 234
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 9. CONSTRUCT SIDEWALK DRAIN PER DETAIL 7 ON SHEET D3
 10. CONSTRUCT 2' ROLL CURB OPENING PER DETAIL 8 ON SHEET D3
 11. CONSTRUCT 2" WIDE CROSS GUTTER PER DETAIL 9 ON SHEET D3

- STORM DRAIN CONSTRUCTION NOTES**
1. CONSTRUCT 60" TYPE III MANHOLE PER CCAUSD DWG No. 401 & 406
 2. CONSTRUCT PRECAST MANHOLE PER CCAUSD DWG No. 401 & 406
 3. CONSTRUCT 7.5" TYPE "DM2" DROP INLET PER CCAUSD DWG No. 412.1
 4. CONSTRUCT 10.0" TYPE "DM2" DROP INLET PER CCAUSD DWG No. 412.1
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 6. CONSTRUCT 24"x24" GRATE DROP INLET PER CCAUSD DWG No. 412.1
 7. CONNECTION POINT. SEE DETAIL 6 ON SHEET D3
 8. PUBLIC DRAINAGE EASEMENT TO BE PRIVATELY MAINTAINED BY HOA

STORM IMPROVEMENTS (EASEMENT)			
DESCRIPTION	UNIT	PUBLIC	PRIVATE
18-INCH STORM SEWER PIPE (RCP)	LF		181
30-INCH STORM SEWER PIPE (RCP)	LF		
36-INCH STORM SEWER PIPE (RCP)	LF		
48-INCH STORM SEWER PIPE (RCP)	LF		61
7.5-FOOT MOD. TYPE "C" DOPE INLET	EA		
10.0-FOOT MOD. TYPE "C" DOPE INLET	EA		
12.5-FOOT MOD. TYPE "C" DOPE INLET	EA		
24"x24" GRATE DROP INLET	EA		4
60-INCH SD MANHOLE (<6')	EA		
CONTRACTOR TO FIELD VERIFY SIZE, LOCATION AND INVERT OF EXISTING PIPE, AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO NEW SEWER CONSTRUCTION			

CAUTION TO CONTRACTOR

EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY AND POT-HOLE EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

BASIS OF BEARING

SOUTH 89°39'55" EAST, BEING THE BEARING OF THE NORTH LINE OF THE NORTHWEST QUARTER (NW 1/4) OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 13, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., AS SHOWN IN FILE 123, PAGE 96 OF PARCEL MAPS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

BENCHMARK

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DRAINAGE CERTIFICATION

I CERTIFY THAT THE GRADING PLANS ARE IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY ON FILE AT THE CITY OF LAS VEGAS FOR THIS PROJECT.

05/26/2022
WESLEY T. PETTY, P.E. 16369
DATE

PUBLIC DRAINAGE NOTE

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

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

Call 811

OR

1-800-642-2444

FAST

Call before you UnderGround

1-702-432-6300

FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY

CALL BEFORE YOU DO OVERHEAD

1-702-227-2929

MATCH LINE - SEE SHEET GD4

ENGINEER STATE OF NEVADA
WESLEY T. PETTY
No. 7251/2023
P.E. No. 16369

PROJECT NO.
764-204-023

DESIGN: PB
DRAWING: PB
CHECK: WP

PLOT DATE: 05-26-22
PLOT TIME: 09:53:29

1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
growingengineering.com

GROWING ENGINEERS SURVEYORS

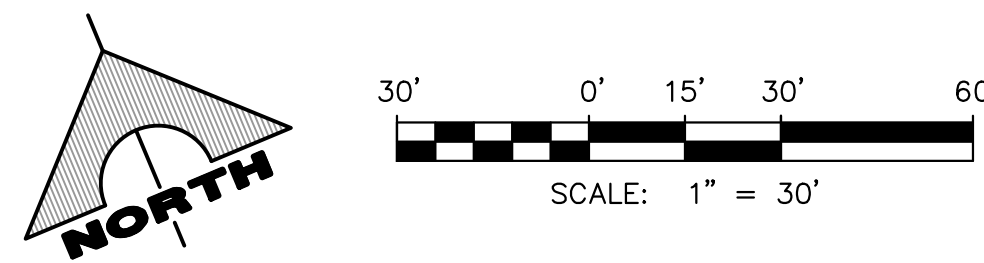
PULTE HOMES
SUMMERLIN - VILLAGE 26 PARCEL L
REFERENCE MULTI-FAMILY

GRADING PLAN 3

DRAWING
GD3

10 OF 38 SHTS

80% REVIEW - NOT FOR CONSTRUCTION



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05/26/2022

WESLEY T. PETTY, P.E. 16369 DATE

GCV
ENGINEERS & SURVEYORS

1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com

SUMMERLIN - VILLAGE 26 PARCELL
REVERENCE MULTI-FAMILY

GRADING PLAN 4

DRAWING
GD4

11 OF 38 SHTS

MATCH LINE - SEE SHEET GD2

HOWARD HUGHES COMPANY, LLC
APN: 137-14-801-011

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

1-800-642-2444

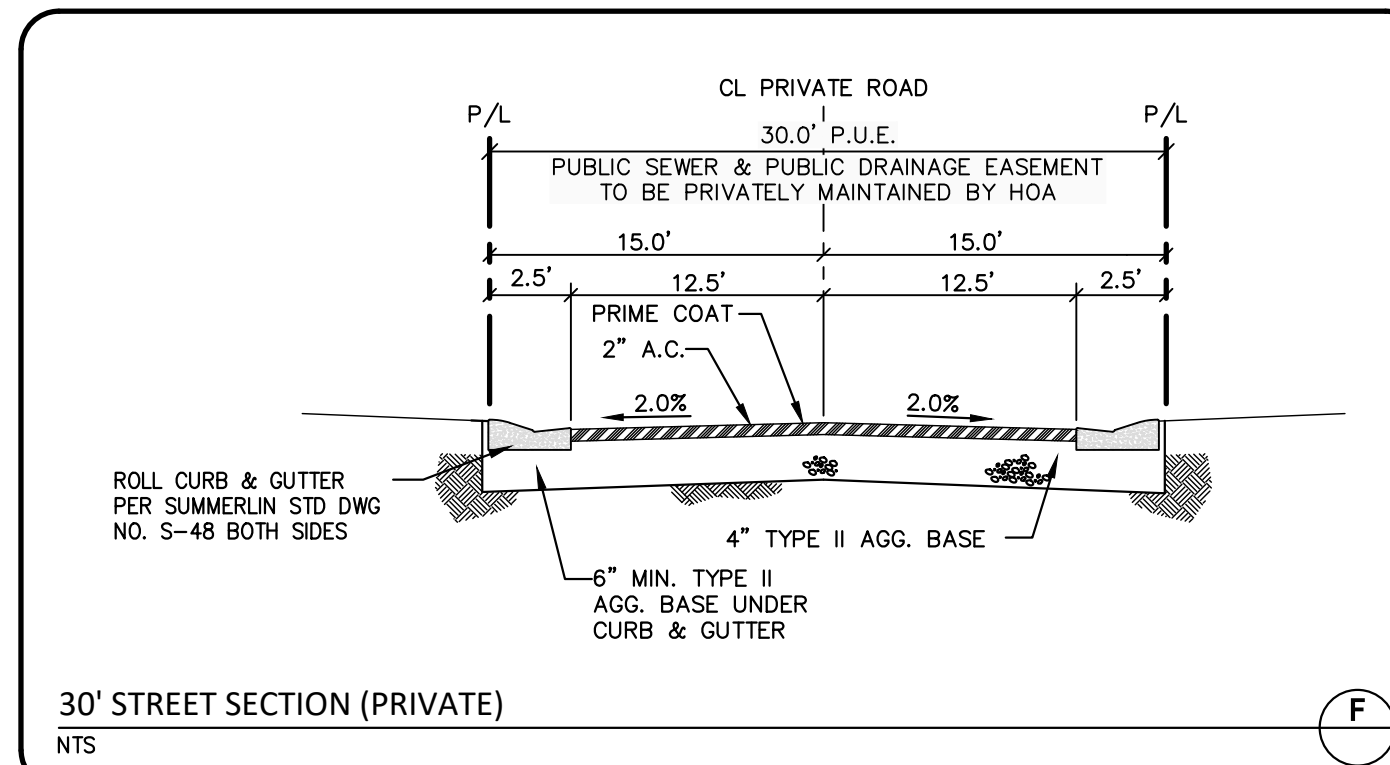
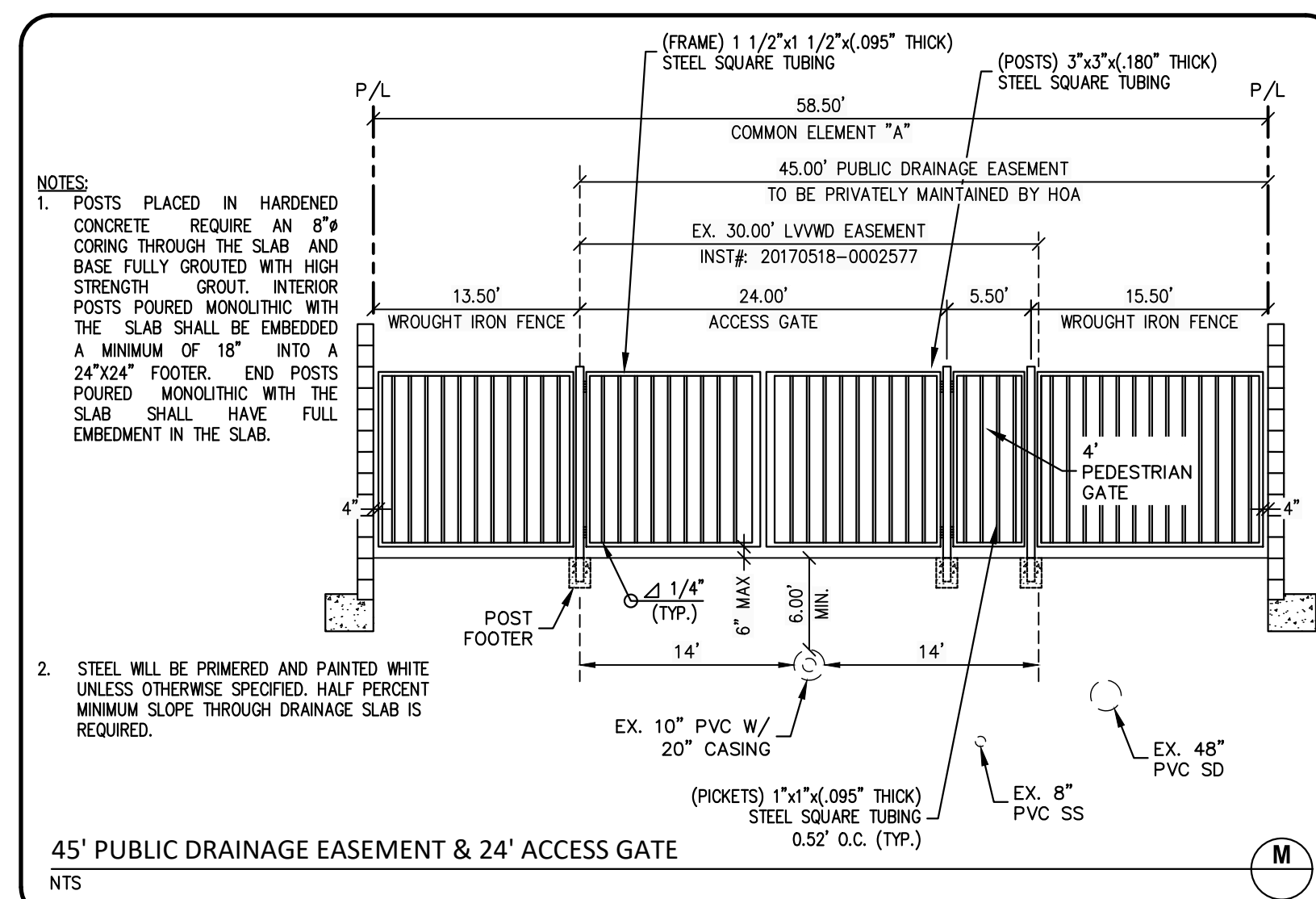
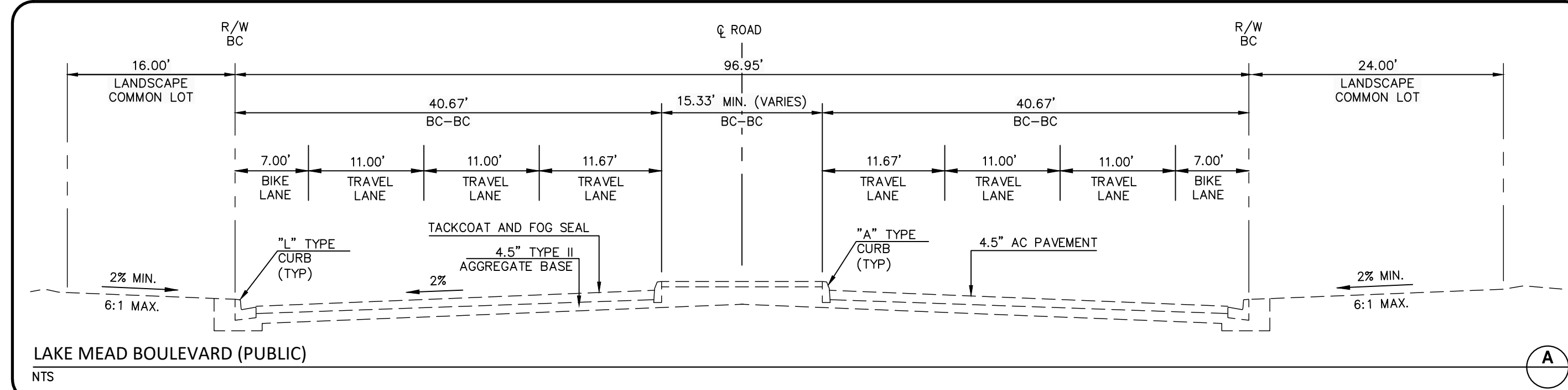
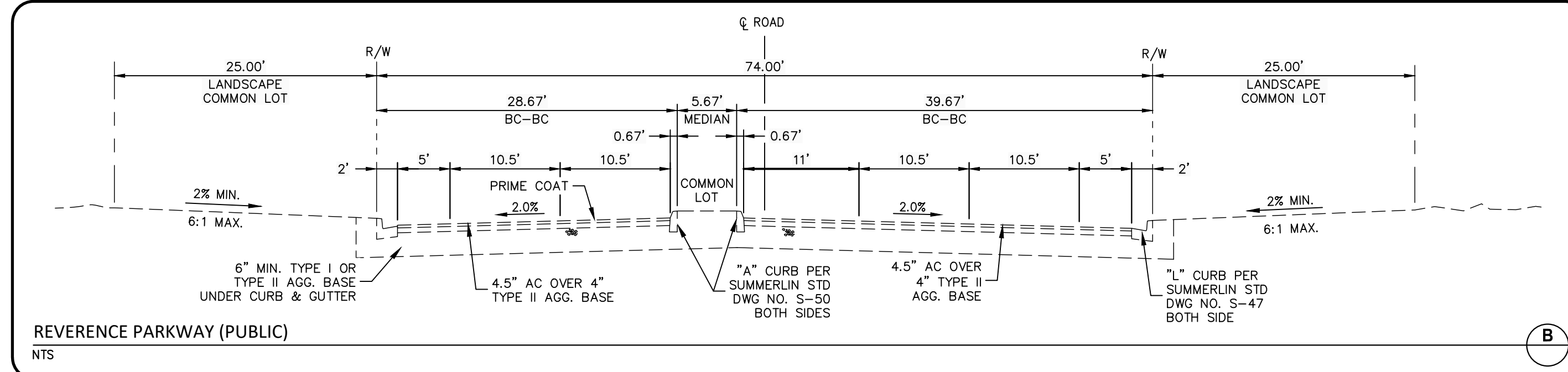
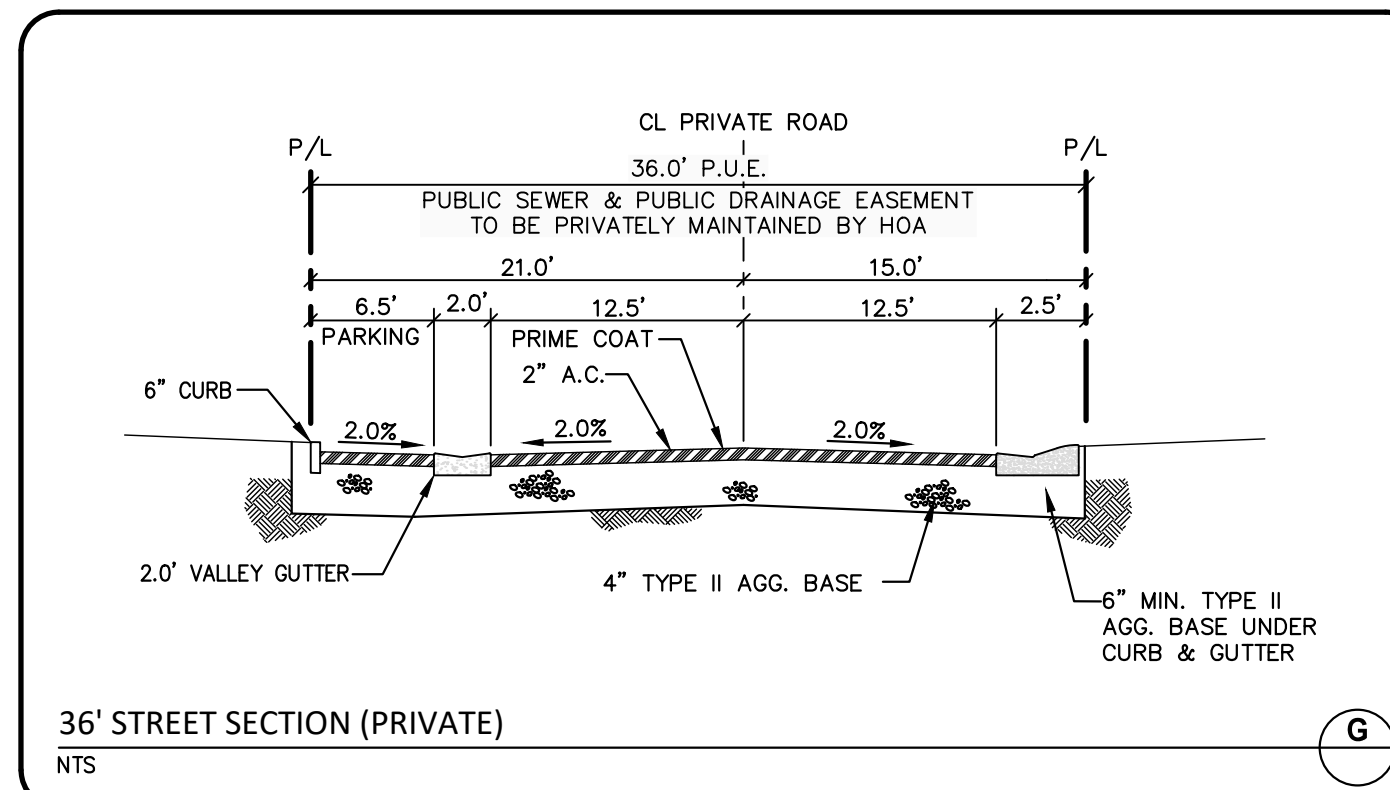
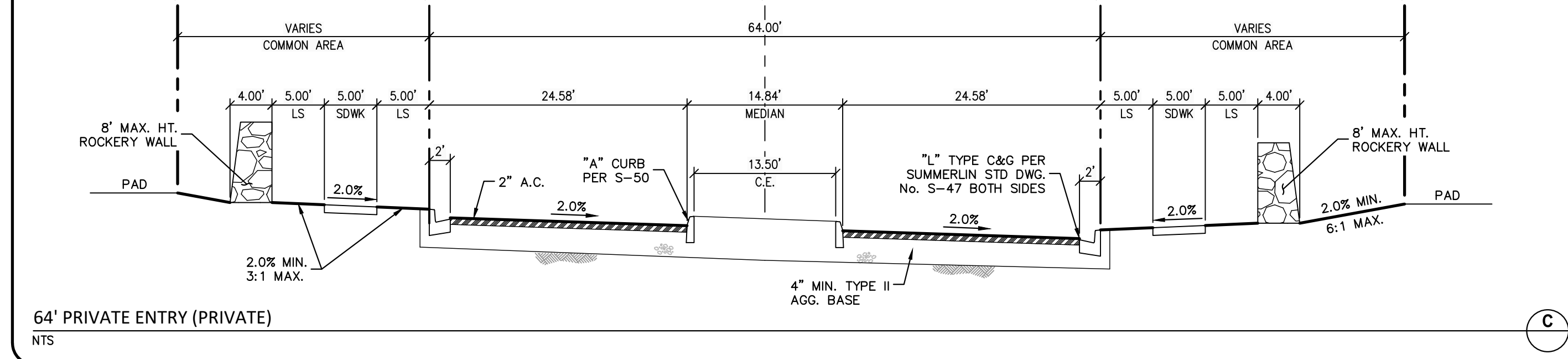
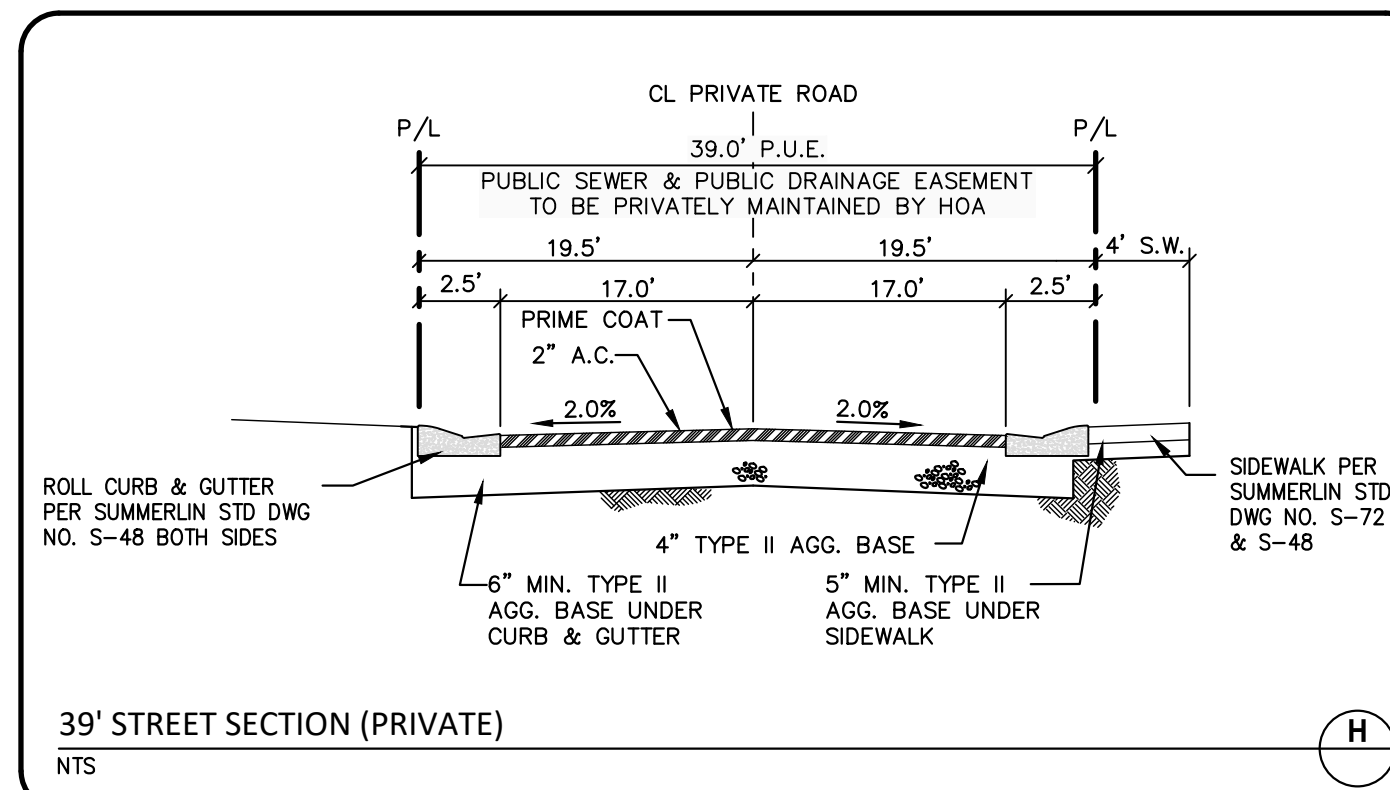
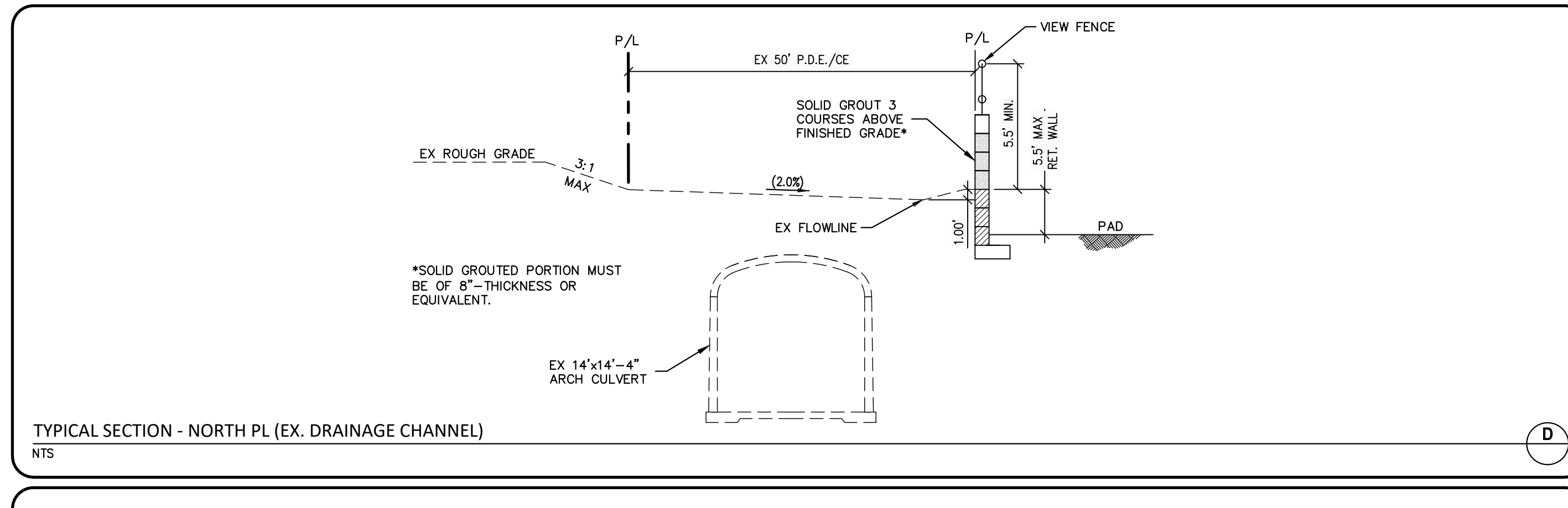
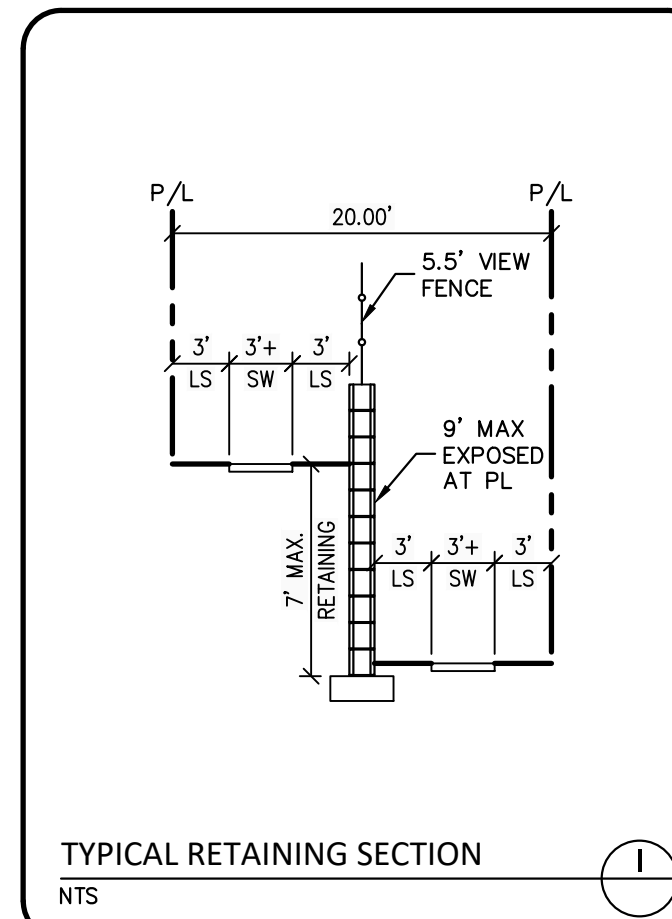
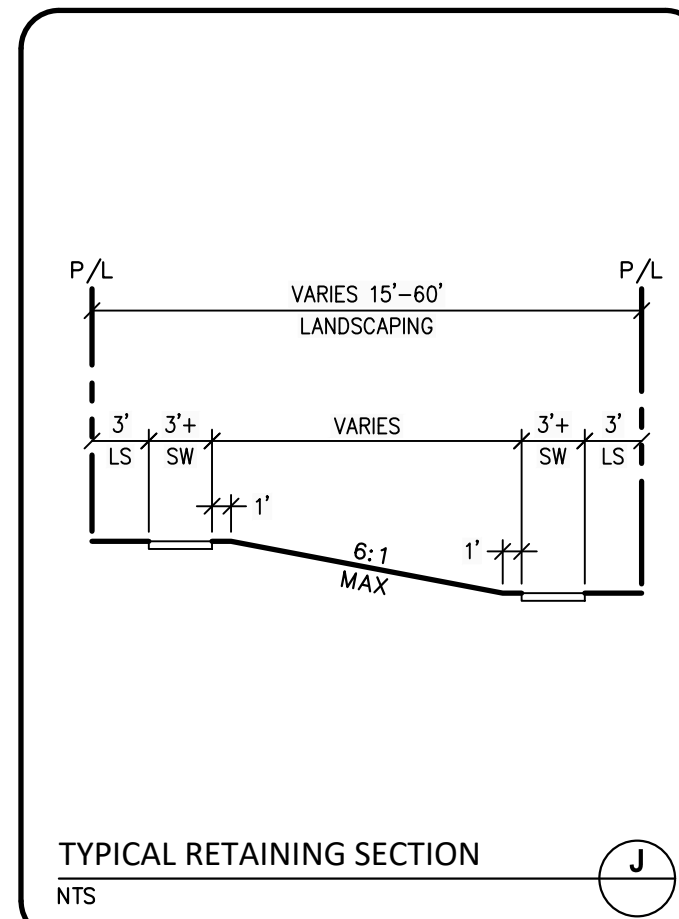
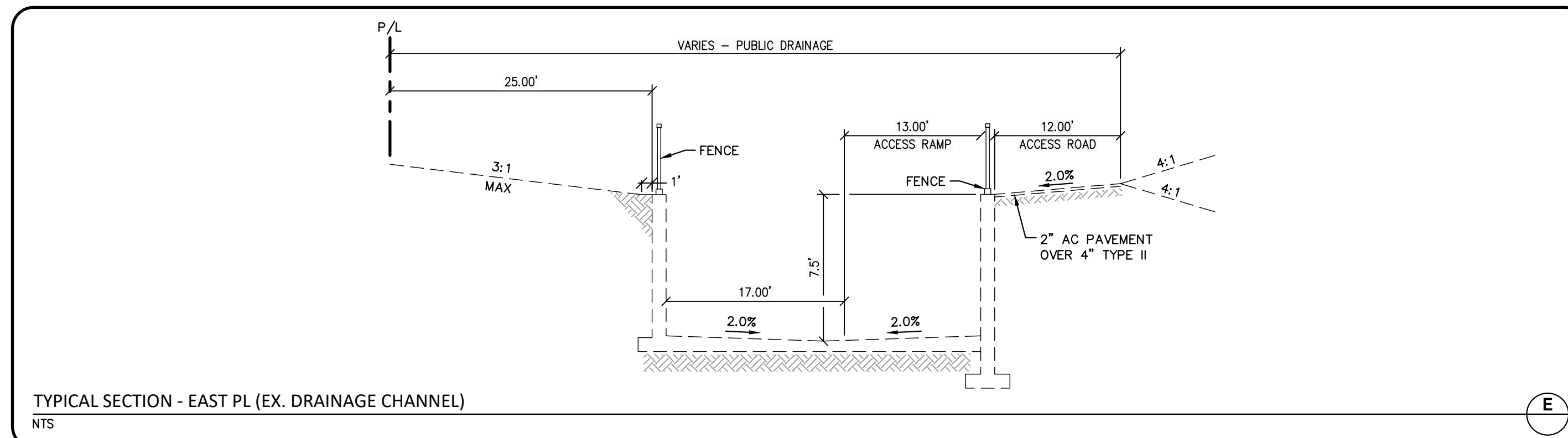
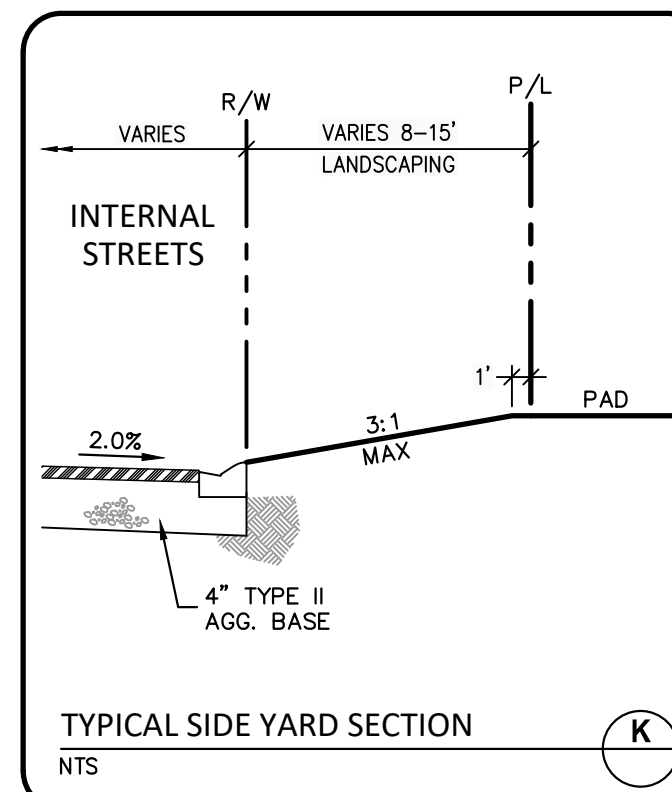
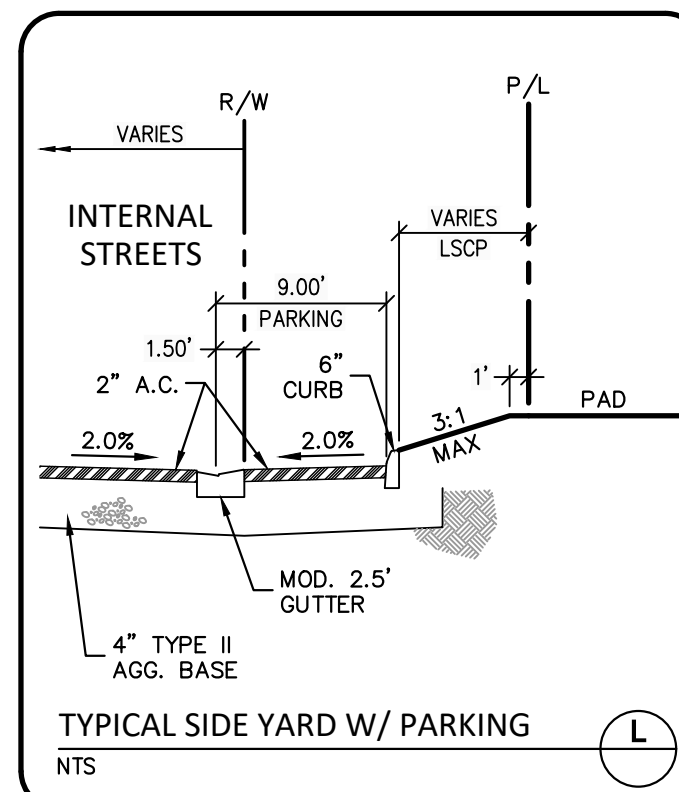
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SYSTEM OF TRANSPORTATION

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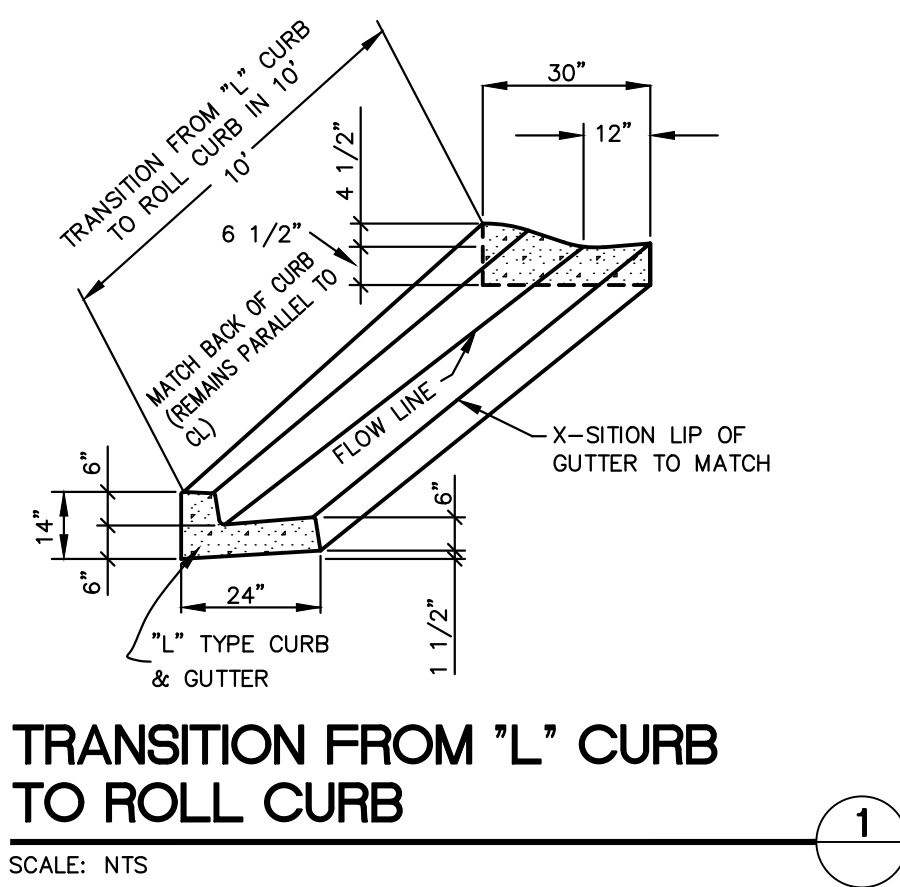
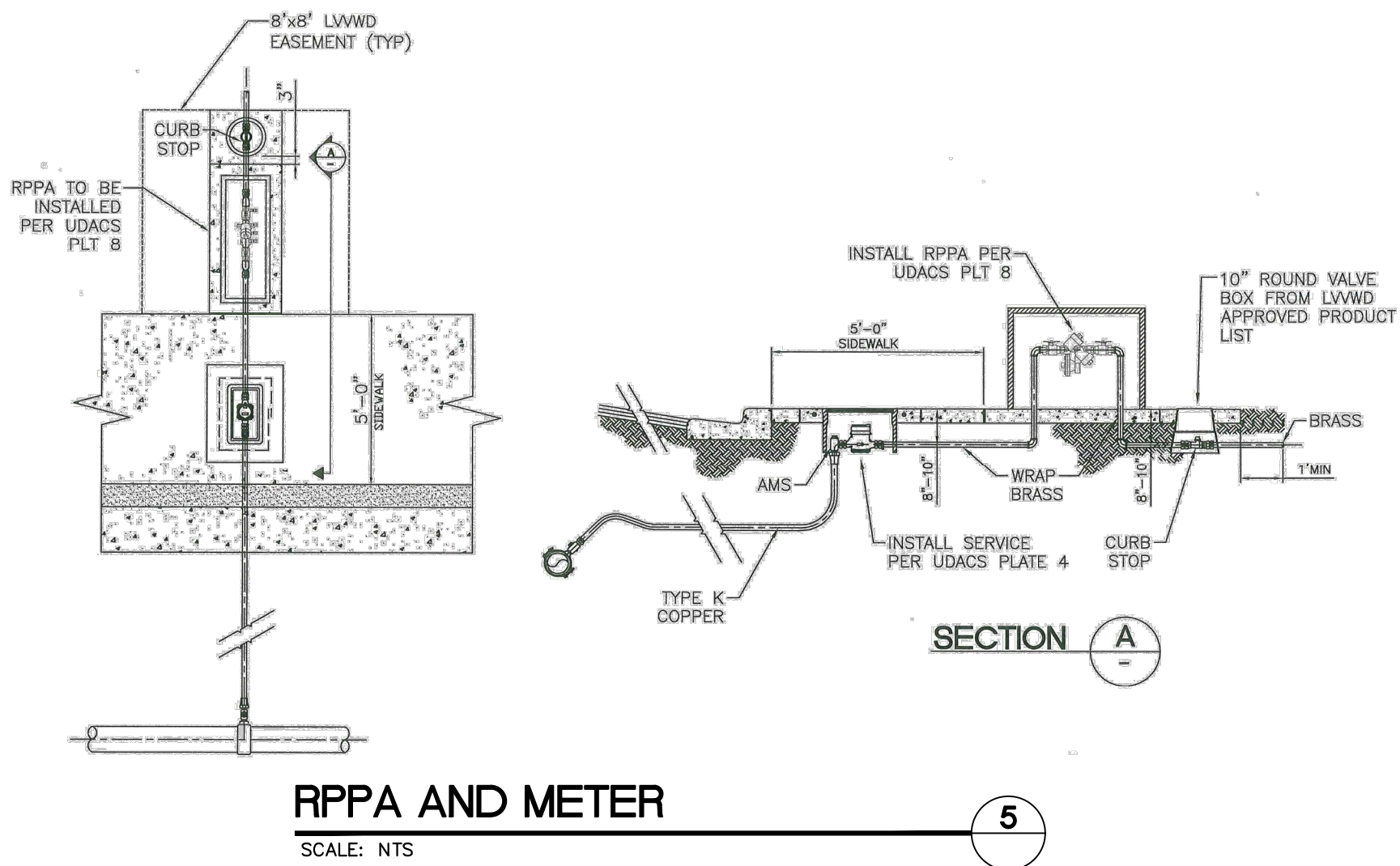
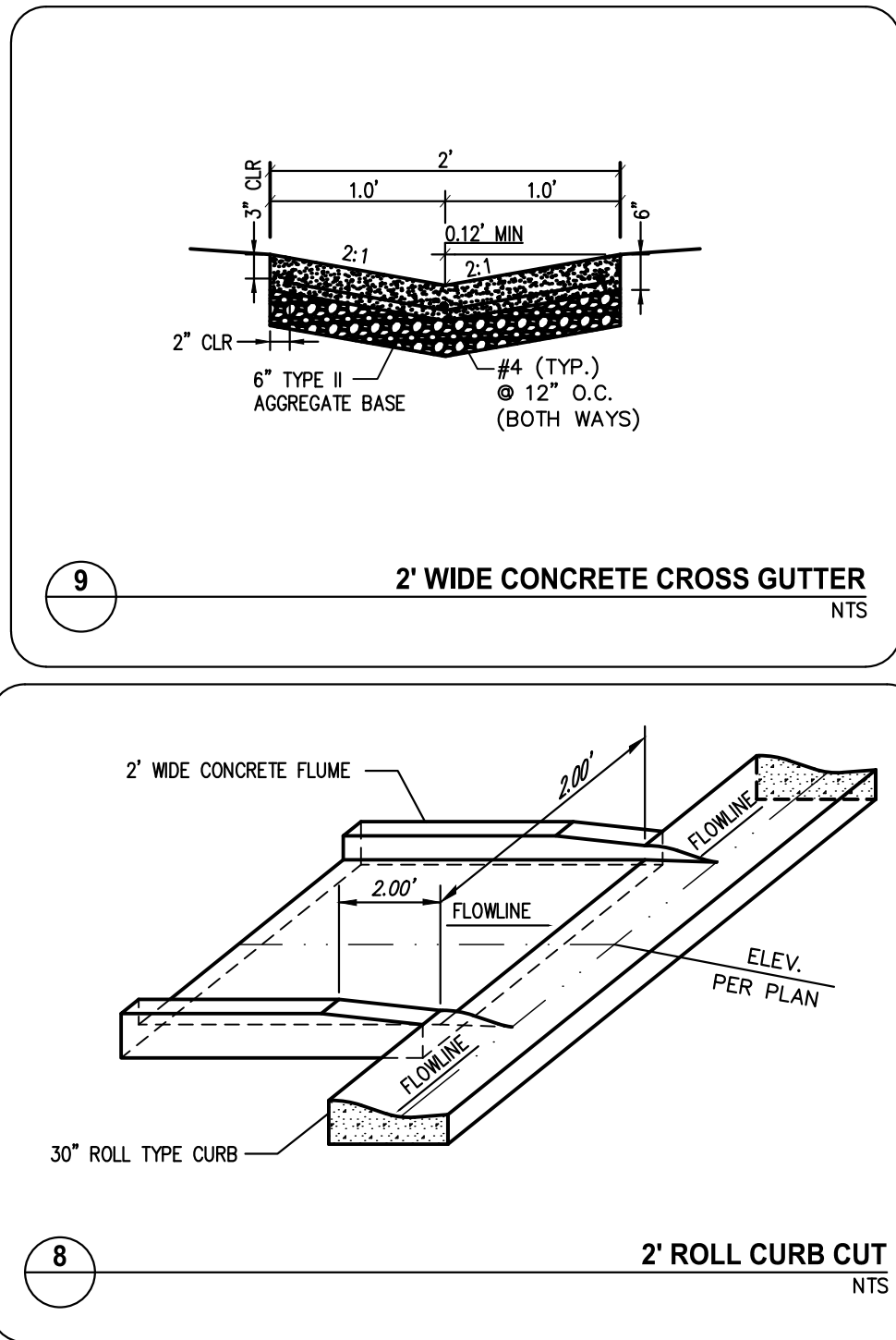
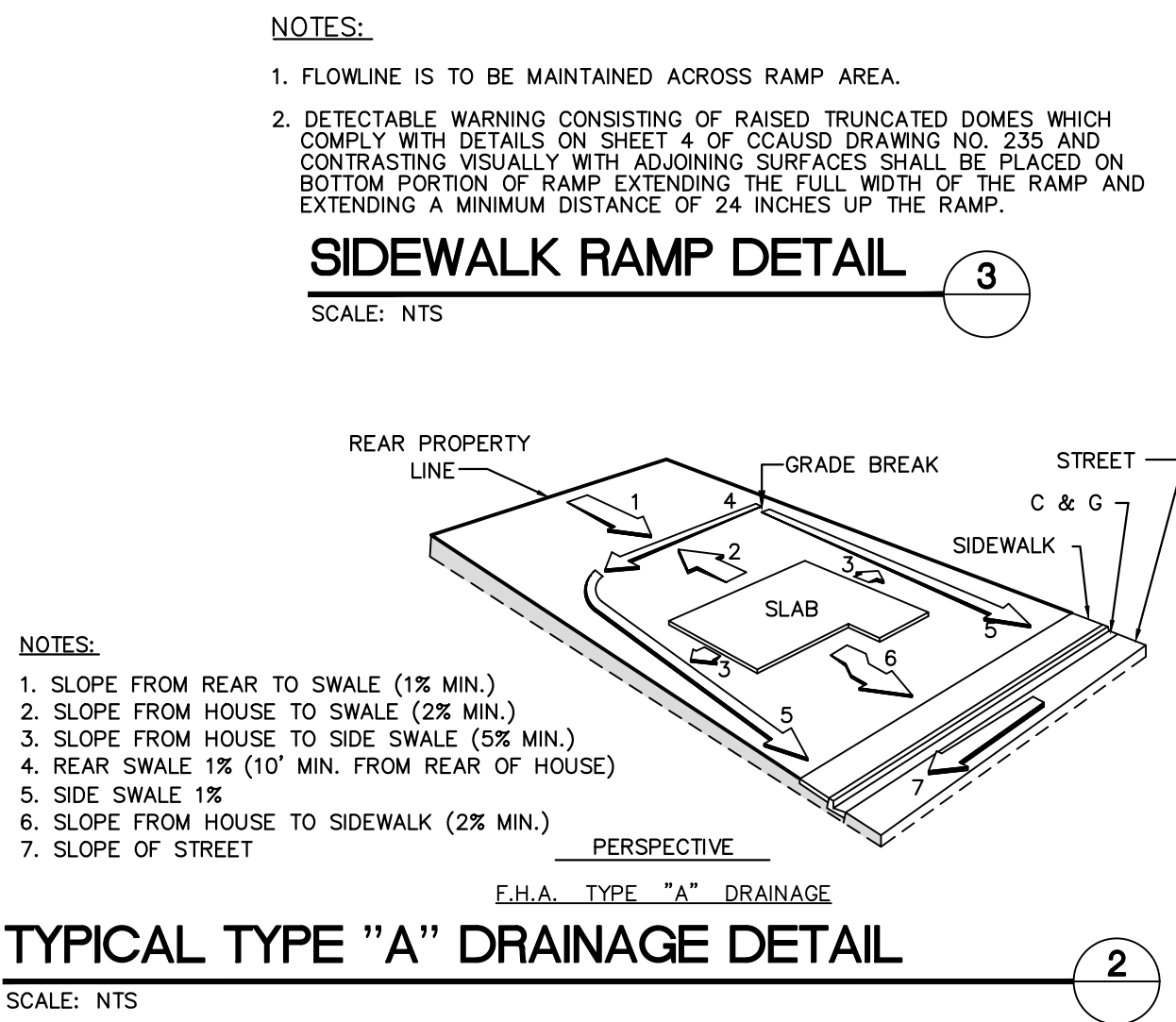
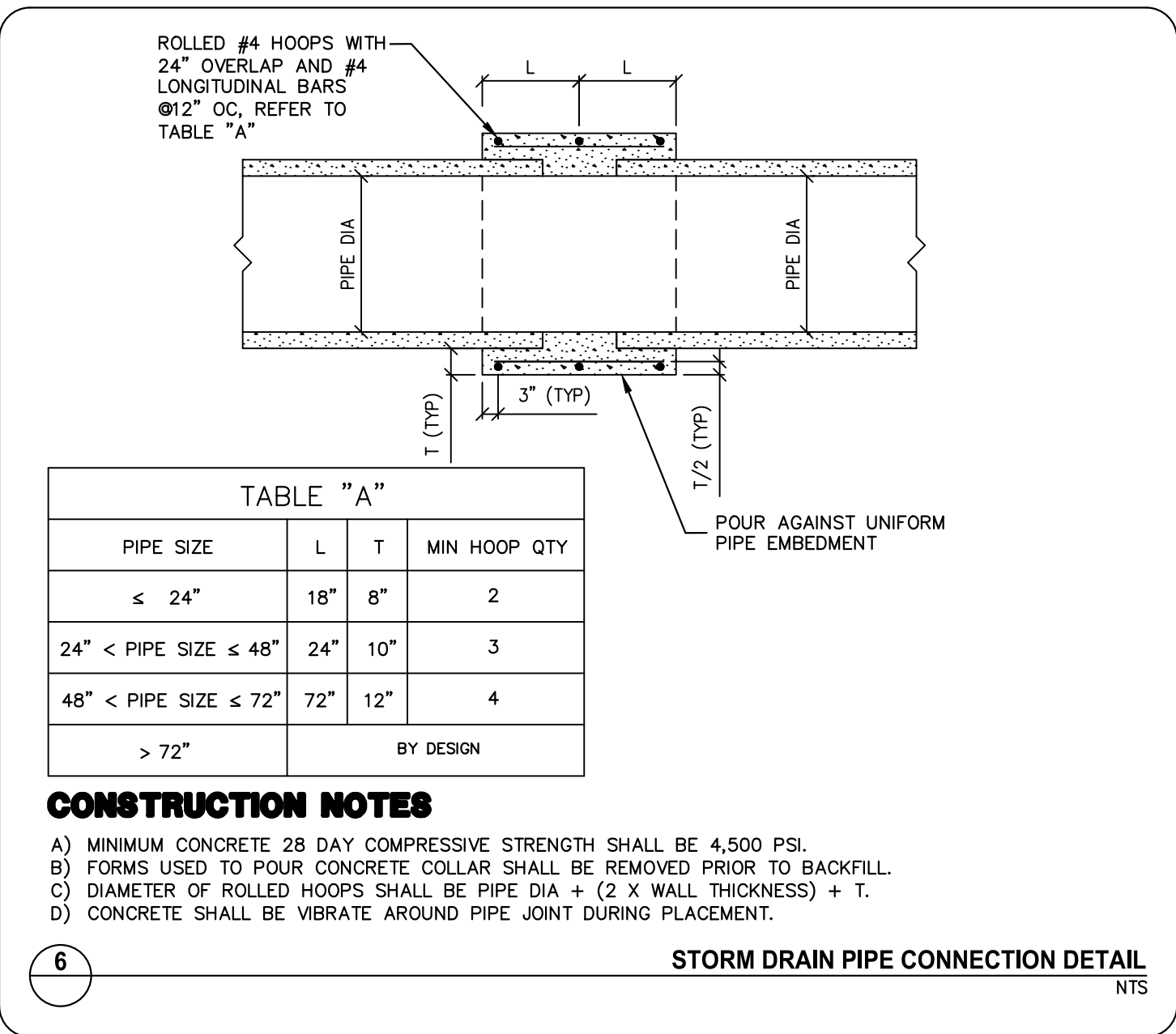
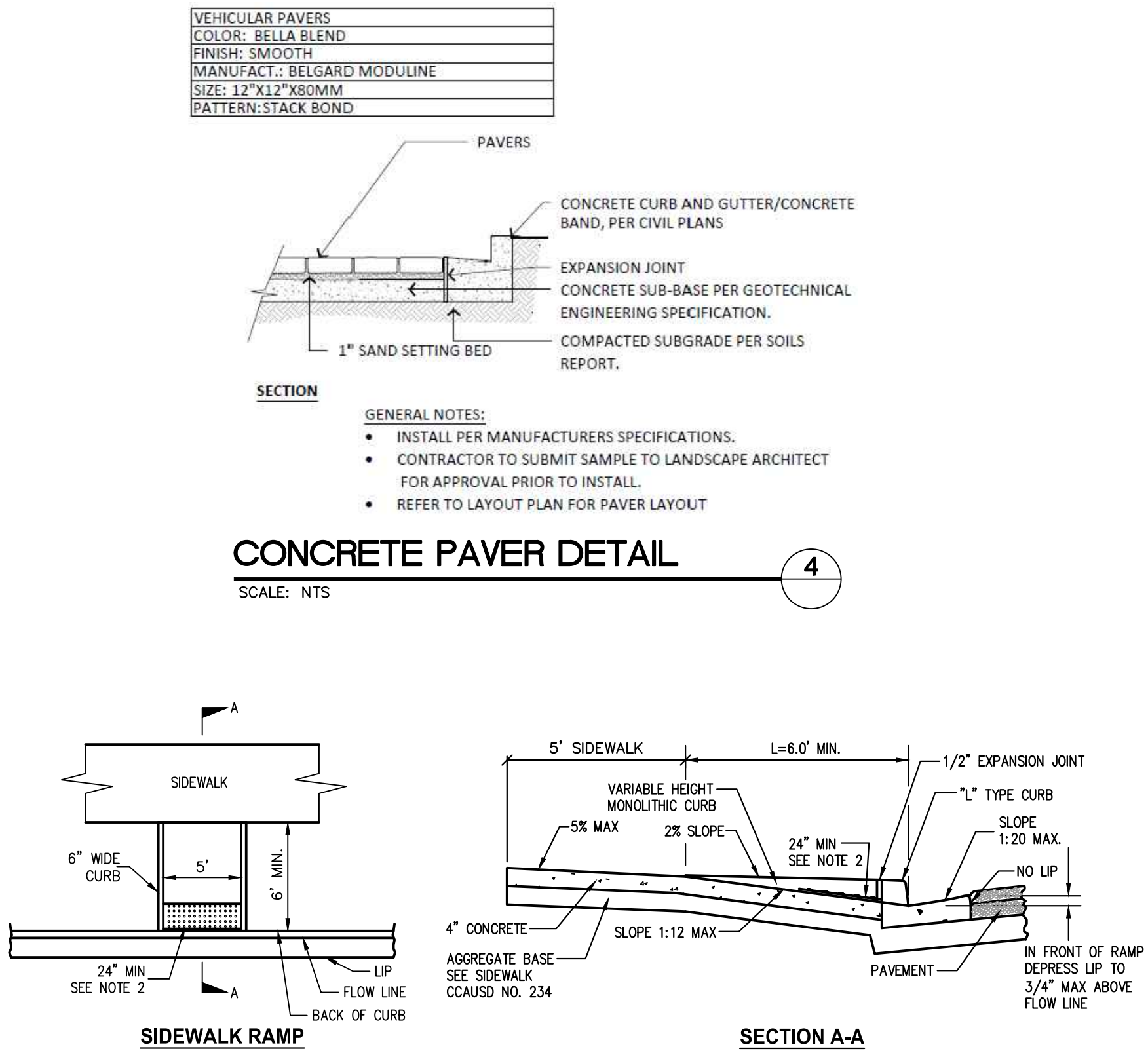
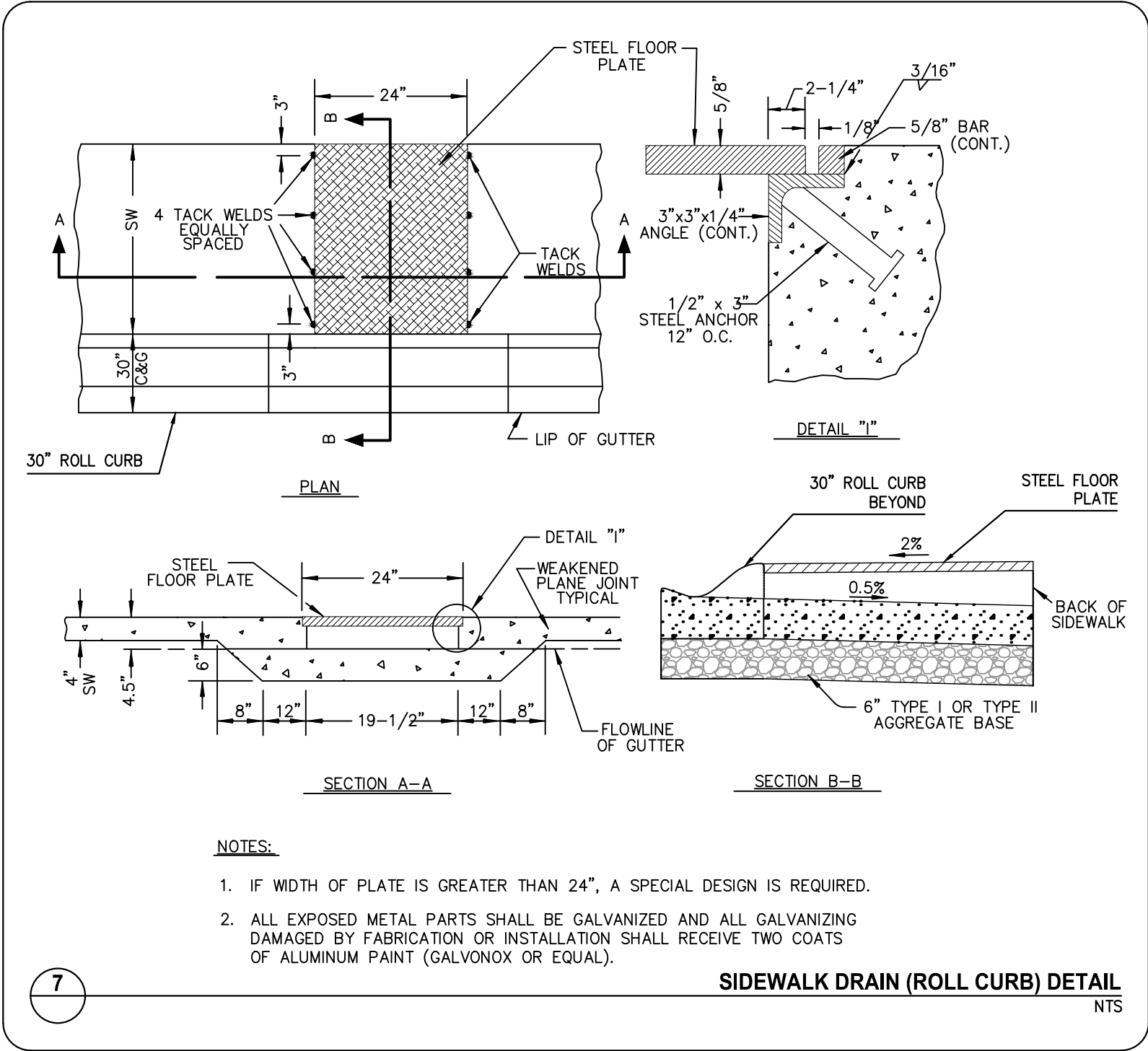
**CALL BEFORE
YOU DO
OVERHEAD**



-702-227-2929



<u>APPROVED FOR CONSTRUCTION</u>	
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES	
PROJECT NO. <u>140344</u>	FIRST APPROVAL DATE: _____
L#: <u>22-00909</u>	CLV#: _____



APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT NO. **140344** FIRST APPROVAL DATE: _____

PROJECT NO.
764-204-023

DESIGN: **PB**
DRAWING: **PB**
CHECK: **WP**
PLOT DATE: 05-26-22
PLOT TIME: 09:53:49

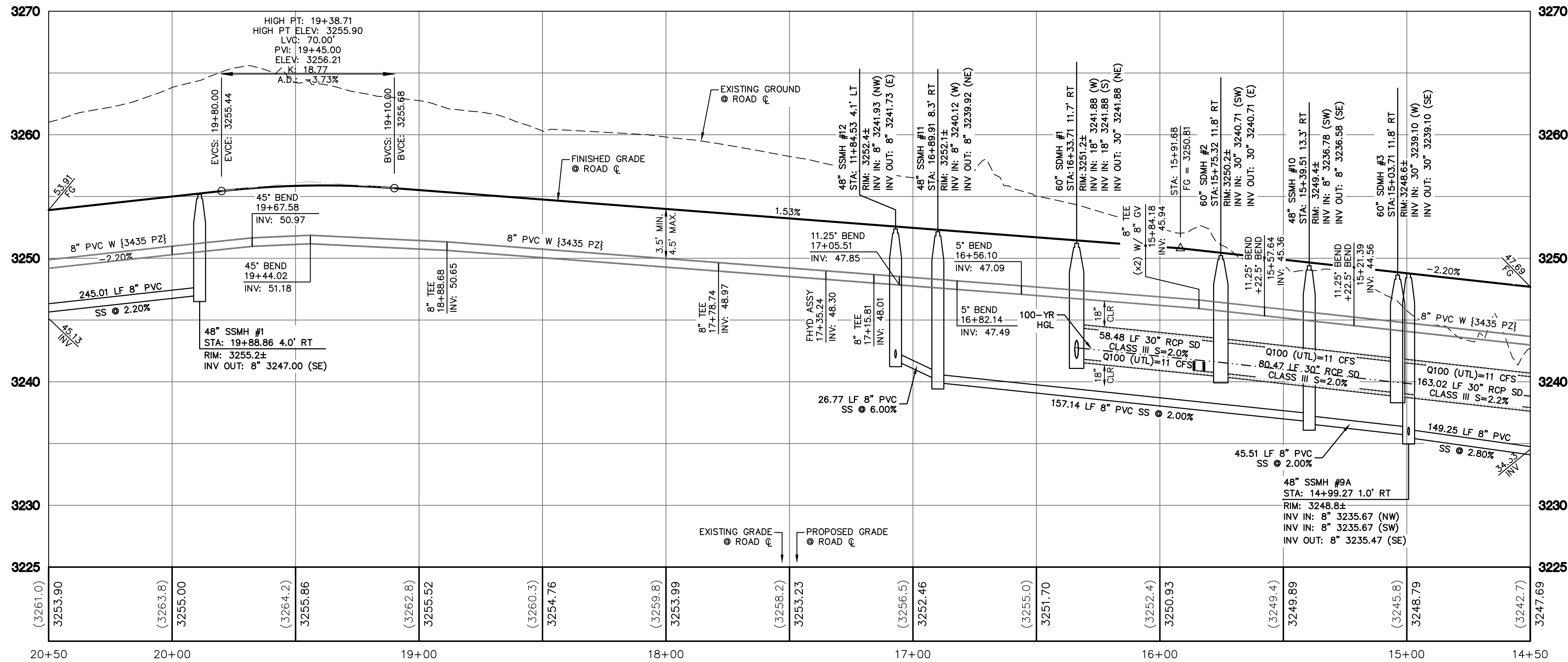
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PULTE HOMES
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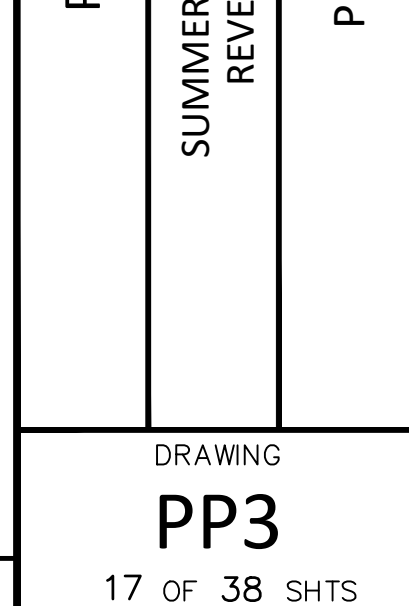
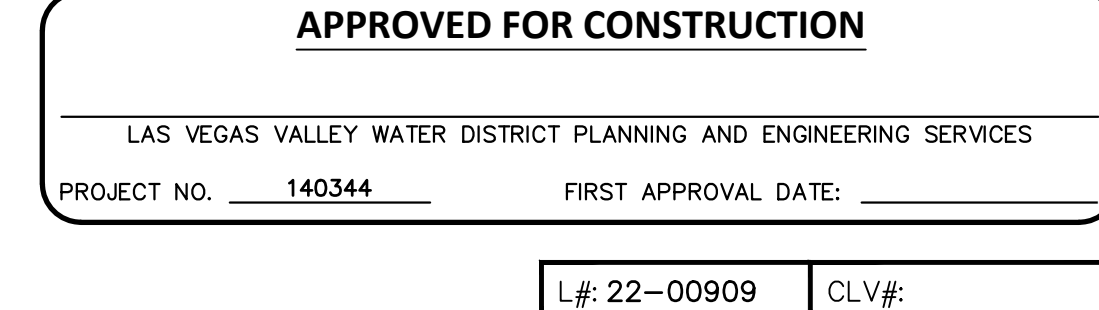
DETAILS & SECTIONS 3

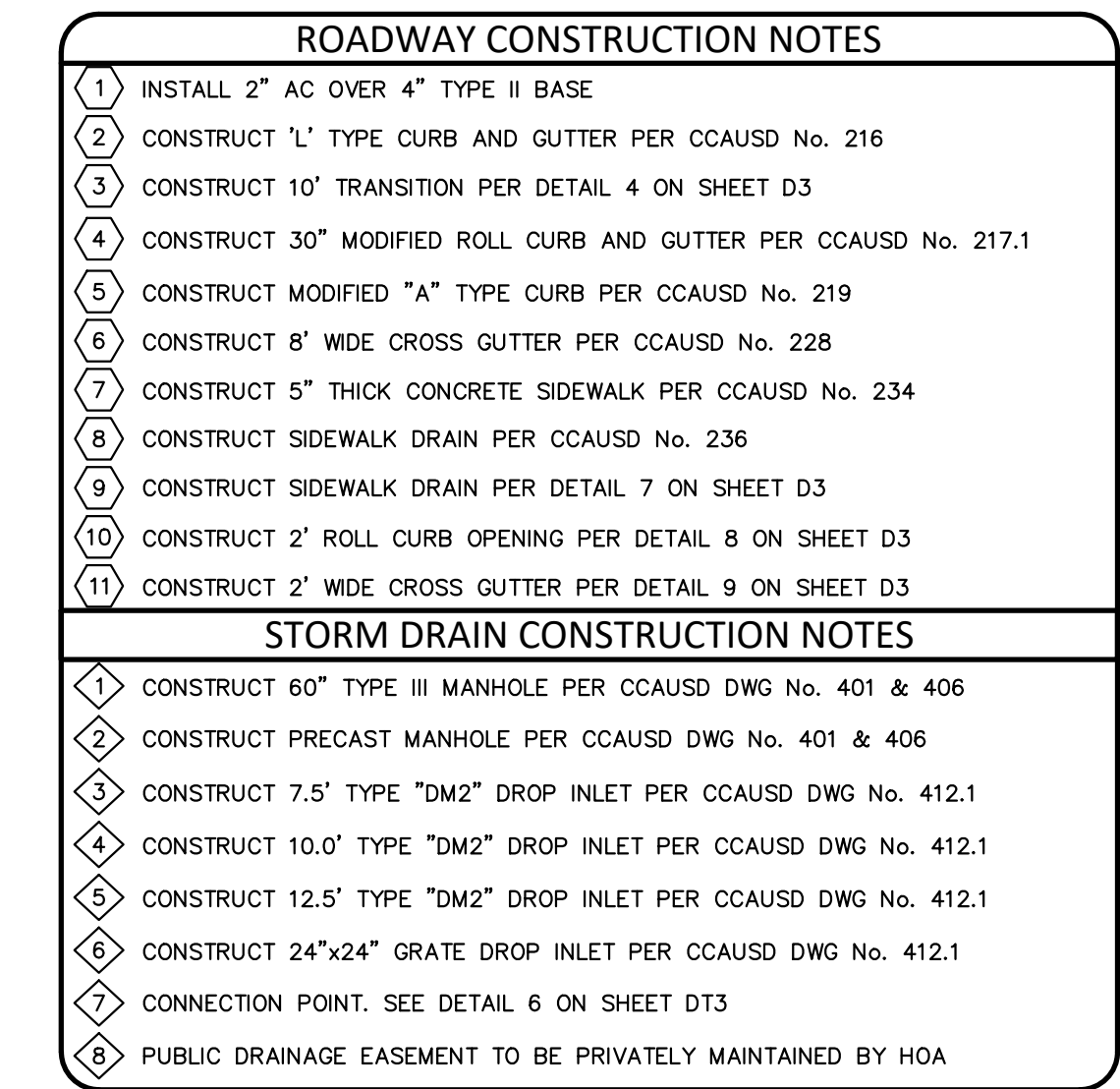
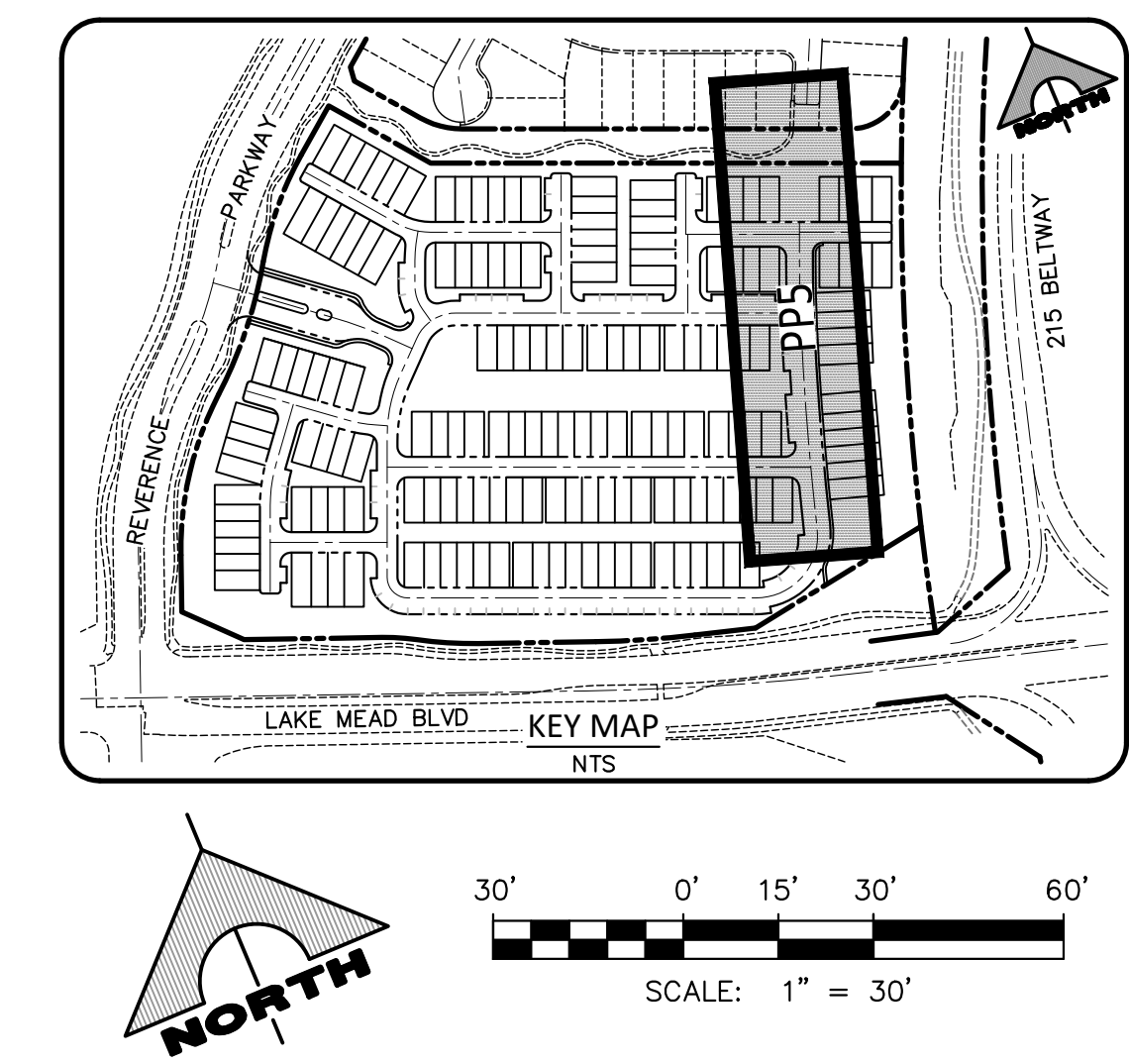
DRAWING
DT3
14 OF 38 SHTS

80% REVIEW - NOT FOR CONSTRUCTION



MARKER BALLS
INSTALL PIPELINE MARKER BALLS PER
UDACS PLATE No. 15.





DEPTH OF COVER DURING CONSTRUCTION
 MAINTAIN MINIMUM TWENTY-FOUR (24) INCH COVER PER UDACS SECTION 2.08.04.
 GRADING MUST BE COMPLETED PRIOR TO WATERLINE INSTALLATION.

DROP INLET NOTE
 WHERE 10 FEET PARALLEL SEPARATIONS IS NOT PRACTICABLE:
 CAST-IN-PLACE MONOLITHIC POUR WITH WATERSTOP BETWEEN SLAB AND WALLS.
 BASE, WALLS AND TOP TO BE CONSTRUCTED WITH WATERSTOPS, CENTER BULB, OR
 FLAT STRIP. (VINYLEX, GREENSTREAK PLASTIC PRODUCTS OR APPROVED EQUAL)

FOR TRENCHES SIX (6) FEET WIDE AND GREATER

CONTRACTOR MUST SUBMIT PIPE SUPPORT DETAILS PREPARED BY A NEVADA LICENSED ENGINEER, TO LVWD PLANNING AND ENGINEERING SERVICES BEFORE CONSTRUCTION. SHOW HOW WATERLINE(S) WILL BE SUPPORTED DURING EXCAVATION AND BACKFILL. IF THE PIPE MATERIAL IS ACP, THE EXPOSED PIPE MUST BE REPLACED WITH DUCTILE IRON PIPE. SUPPORTED PIPE MAY NOT BE EXPOSED FOR LONGER THAN 14 DAYS MAXIMUM.

CAUTION TO CONTRACTOR

EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HERON. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY AND POTHOLE EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

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	05/26/2022
WESLEY T. PETTY, P.E. 16369	DATE

<u>APPROVED FOR CONSTRUCTION</u>	
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES	
PROJECT NO. <u>140344</u>	FIRST APPROVAL DATE: _____
L#: 22-0909	CLV#: _____

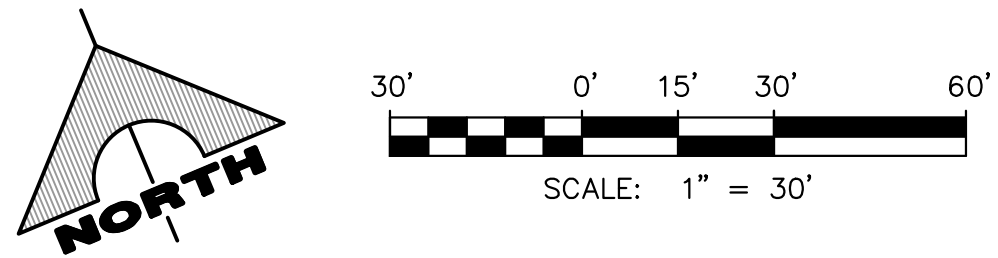
PUBLIC DRAINAGE NOTE
ALL PRIVATE STREETS ARE P.U.E., PUBLIC SEWER EASEMENTS AND PUBLIC DRAINAGE EASEMENTS TO BE PRIVATELY MAINTAINED BY HOA.

DEFLECTION NOTE
WATER MAIN JOINT DEFLECTION, PER
UDACS 2.07.01 AND 2.07.03.

CAUTION
CATHODIC TEST WIRES AND/OR FIBER OPTIC, RUN ALONG THE SIDE OF THE WATERLINE AT AN UNKNOWN DEPTH. TAKE CAUTION WHEN DIGGING.

MARKER BALLS
INSTALL PIPELINE MARKER BALLS PER
UDACS PLATE No. 15.





- 1) INSTALL 2" AC OVER 4" TYPE B BASE
- 2) CONSTRUCT 'L' TYPE CURB AND GUTTER PER CCAUSD No. 216
- 3) CONSTRUCT 10' TRANSITION PER DETAIL 4 ON SHEET D3
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- | | |
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SOUTH 89°39'55" EAST, BEING THE BEARING OF THE NORTH LINE OF THE NORTHWEST QUARTER (NW 1/4) OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 13, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., AS SHOWN IN FILE 123, PAGE 96 OF PARCEL MAPS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

CLARK COUNTY VERTICAL CONTROL POINT: 0LV09 14SE6
ELEVATION: 973.29 METERS (3193.20 FEET)
RIVET & PLATE IN TOP OF CURB ON NORTH SIDE OF LAKE MEAD 0.4 MILES WEST OF
THOMAS RYAN.
BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

I CERTIFY THAT THE GRADING PLANS ARE IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY ON FILE AT THE CITY OF LAS VEGAS FOR THIS PROJECT.

05/26/2022
WESLEY T. PETTY, P.E. 16369
DATE

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT NO. 140344 FIRST APPROVAL DATE:

[illegible]

PROJECT NO.
764-204-023

DESIGN: PB
DRAWN: PB

CHECK: WP
LOT DATE: 05-26-22

LOI DATE: 03-26-22

1555 S. RAINBOW BLVD.
AS VEGAS NV 89146

T: 703 904 3000

T: 702.804.2000

E: 702 804 2299

CC77:1.00:70 /

scwengineering.com

104-02305-PP.DWG

PAUL BRENNAN

PULTE HOMES

SUMMERLIN - VILLAGE 26 PARCEL L
REVERENCE MULTI-FAMILY

PLAN & PROFILE 9

DRAWING

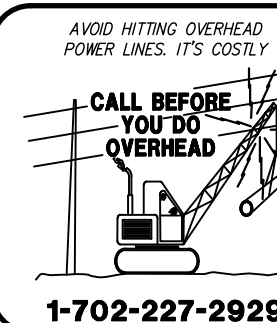
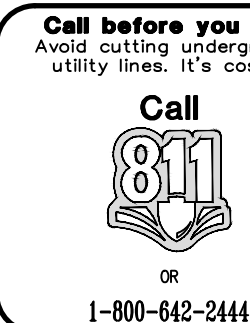
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23 OF 38 SHTS

App DATE GCW APP DATE: 8/20/2017 8/20/2017

80% REVIEW - NOT FOR CONSTRUCTION

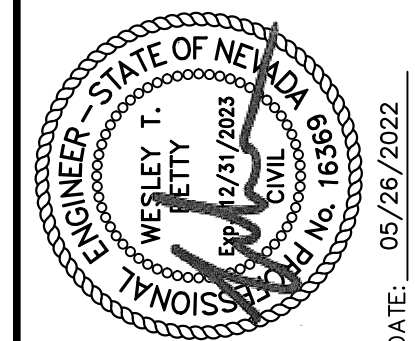
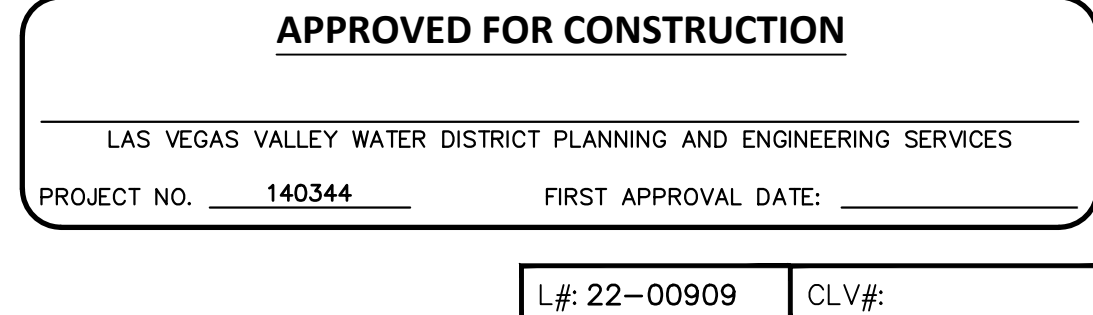
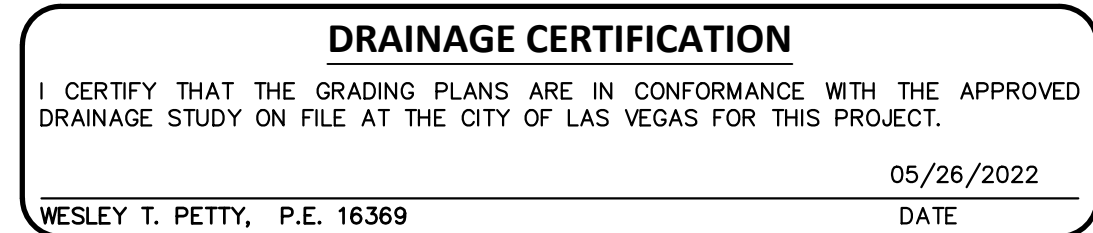
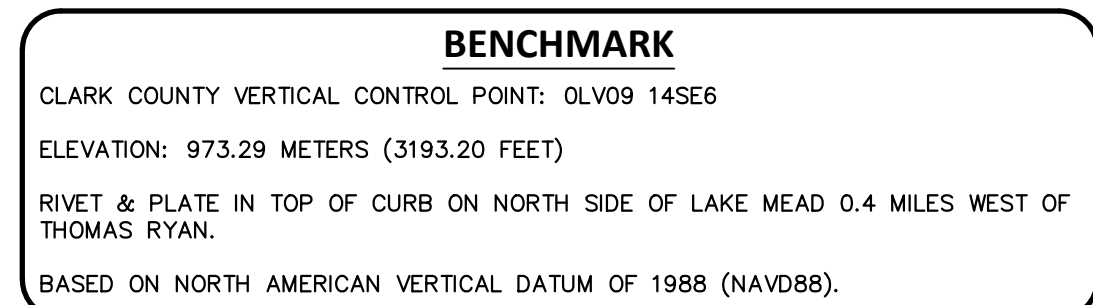
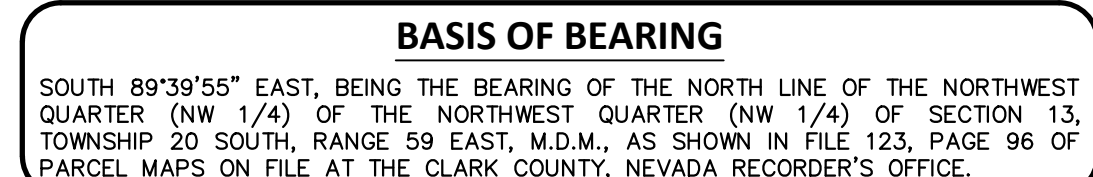
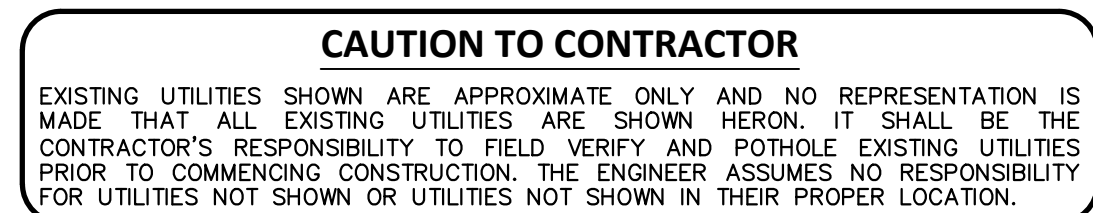
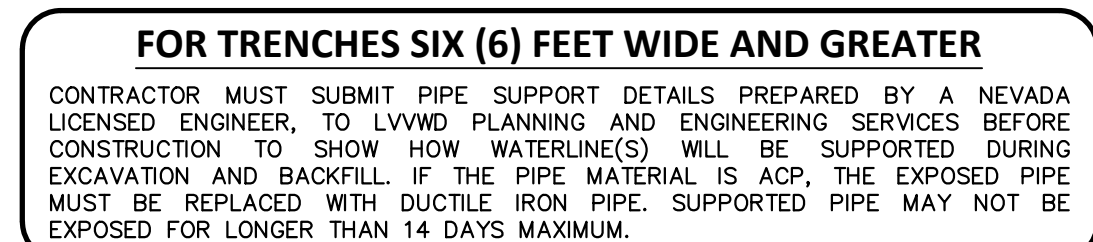
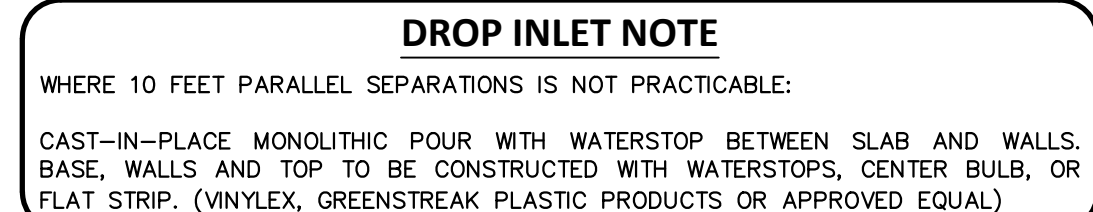
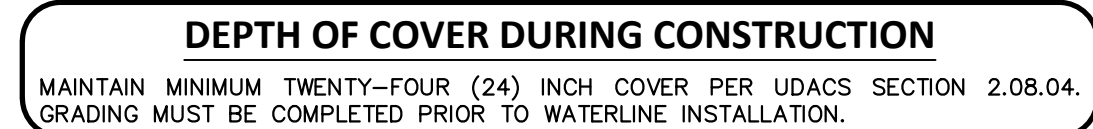
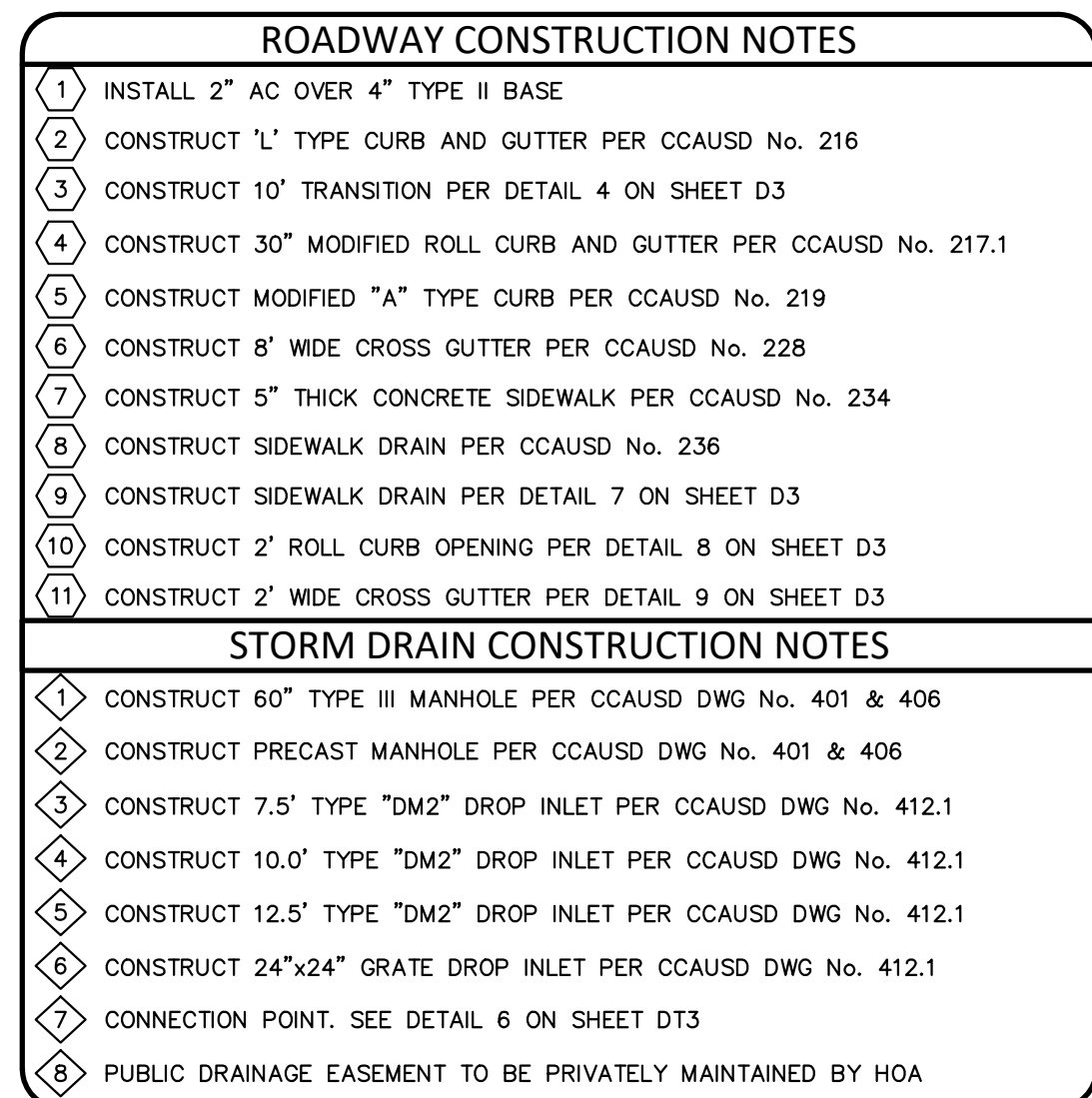
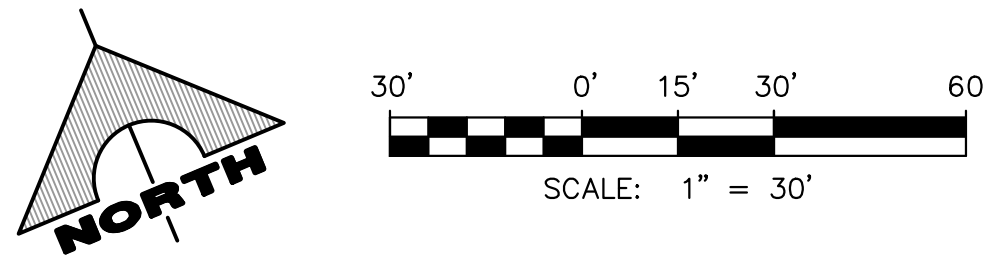
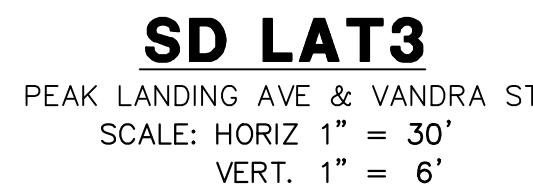
ALL PRIVATE STREETS ARE P.U.E., PUBLIC SEWER EASEMENTS AND PUBLIC DRAINAGE EASEMENTS TO BE PRIVATELY MAINTAINED BY HOA.



WATER MAIN JOINT DEFLECTION, PER
UDACS 2.07.01 AND 2.07.03.

CATHODIC TEST WIRES AND/OR FIBER OPTIC, RUN ALONG THE SIDE OF THE WATERLINE AT AN UNKNOWN DEPTH. TAKE CAUTION WHEN DIGGING.

INSTALL PIPELINE MARKER BALLS PER
UDACS PLATE No. 15.

[illegible]

PROJECT NO.	764-204-023
DESIGN:	PB
RAWN:	PB
CHECK:	WP
LOT DATE:	05-26-22
LOT TIME:	09:56:24

GCW
ENGINEERS \ SURVEYORS

1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com

PROJECTS \ VOY \ 264-264-4023 \ WMO \ PRODUCTION \ 764-264-4023006-4 LT \ PWG

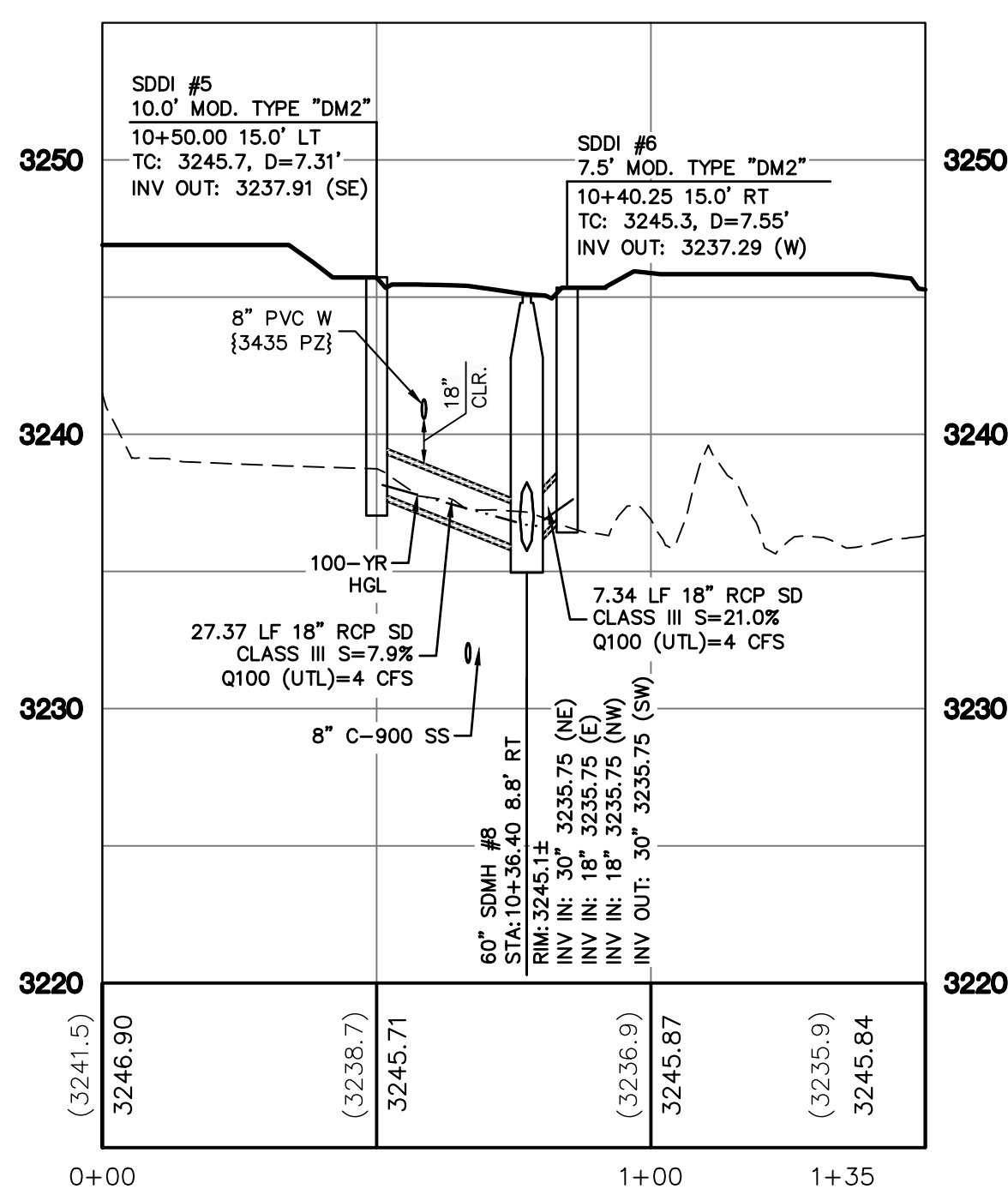
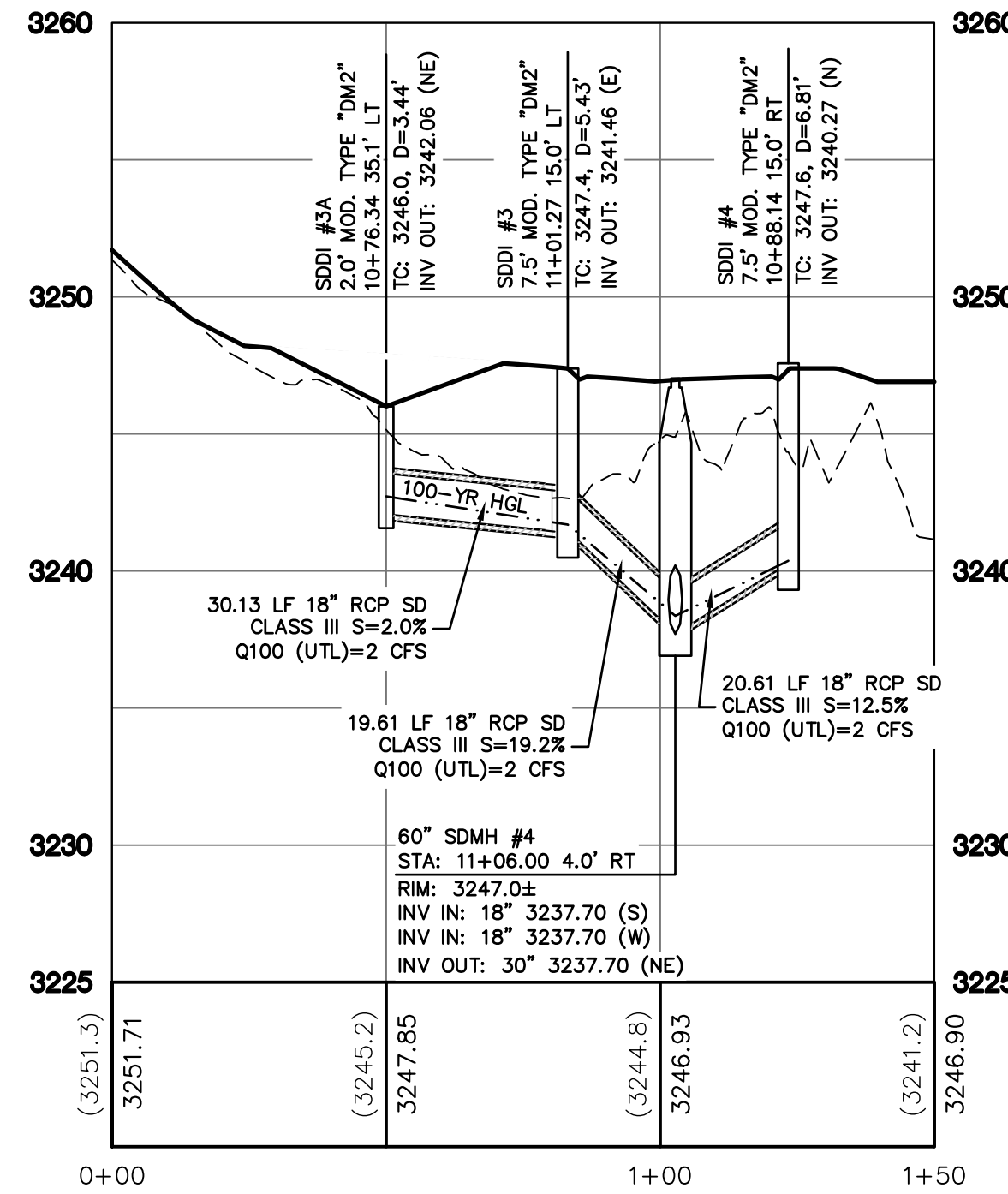
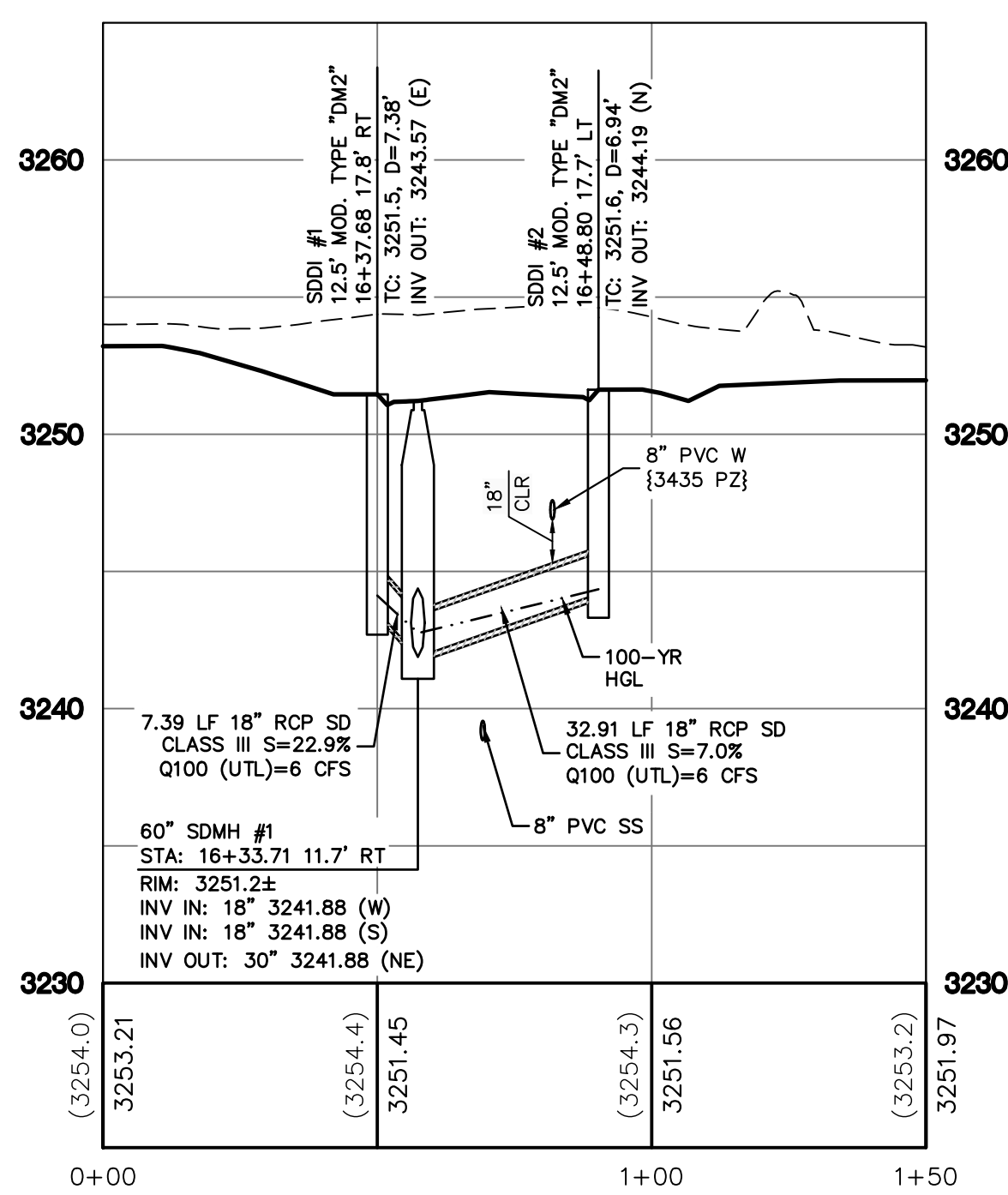
PAIL BRENNING

PULTE HOMES	SUMMERLIN - VILLAGE 26 PARCELL REVERENCE MULTI-FAMILY	STORM DRAIN LATERALS 1
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DRAWING

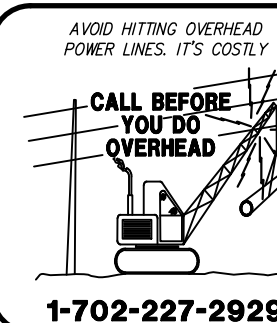
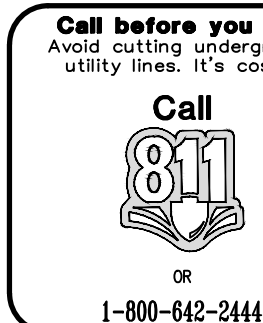
LAT1

27 OF 38 SHTS



PUBLIC DRAINAGE NOTE

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



DEFLECTION NOTE

WATER MAIN JOINT DEFLECTION, PER
UDACS 2.07.01 AND 2.07.03.

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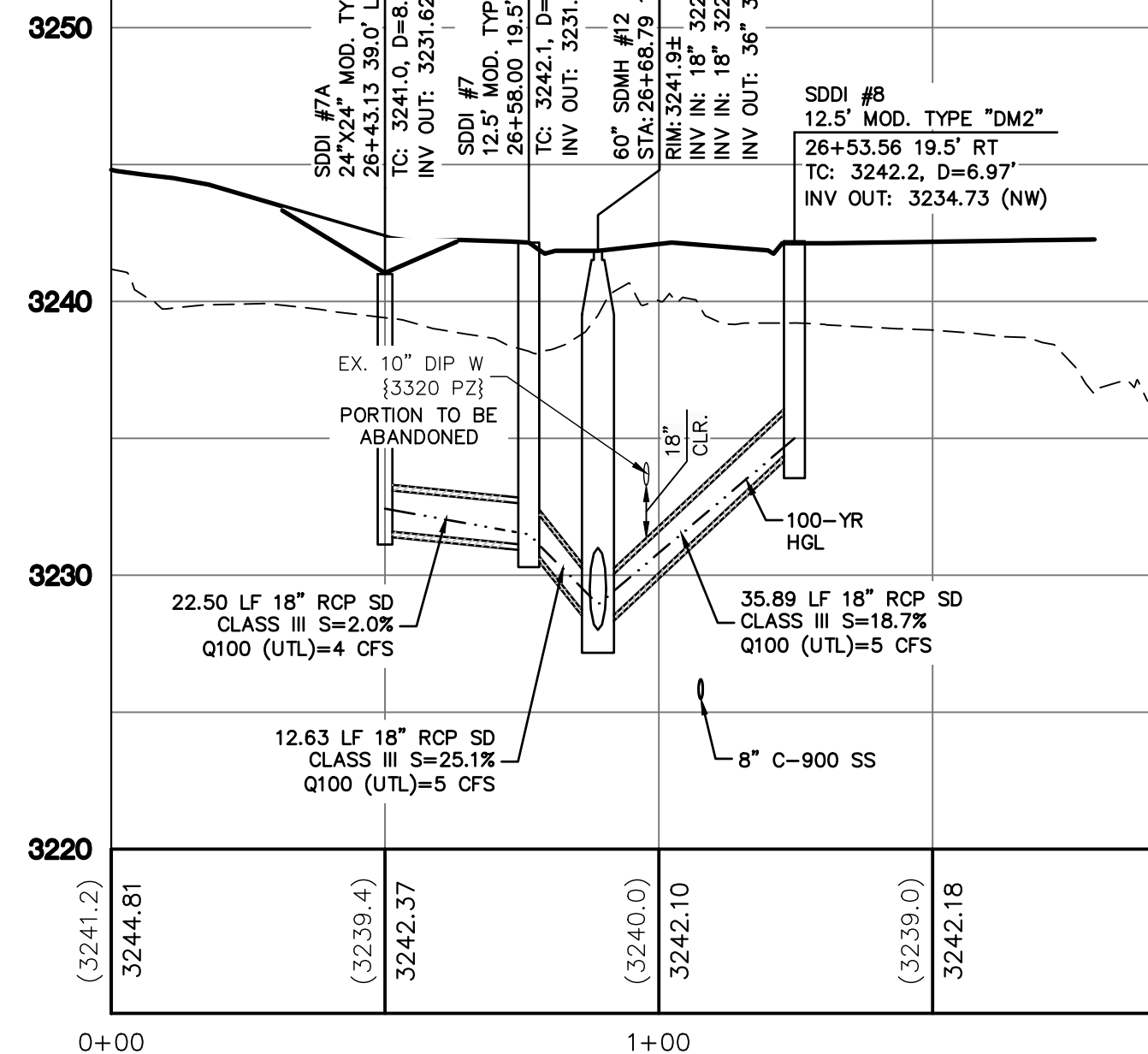
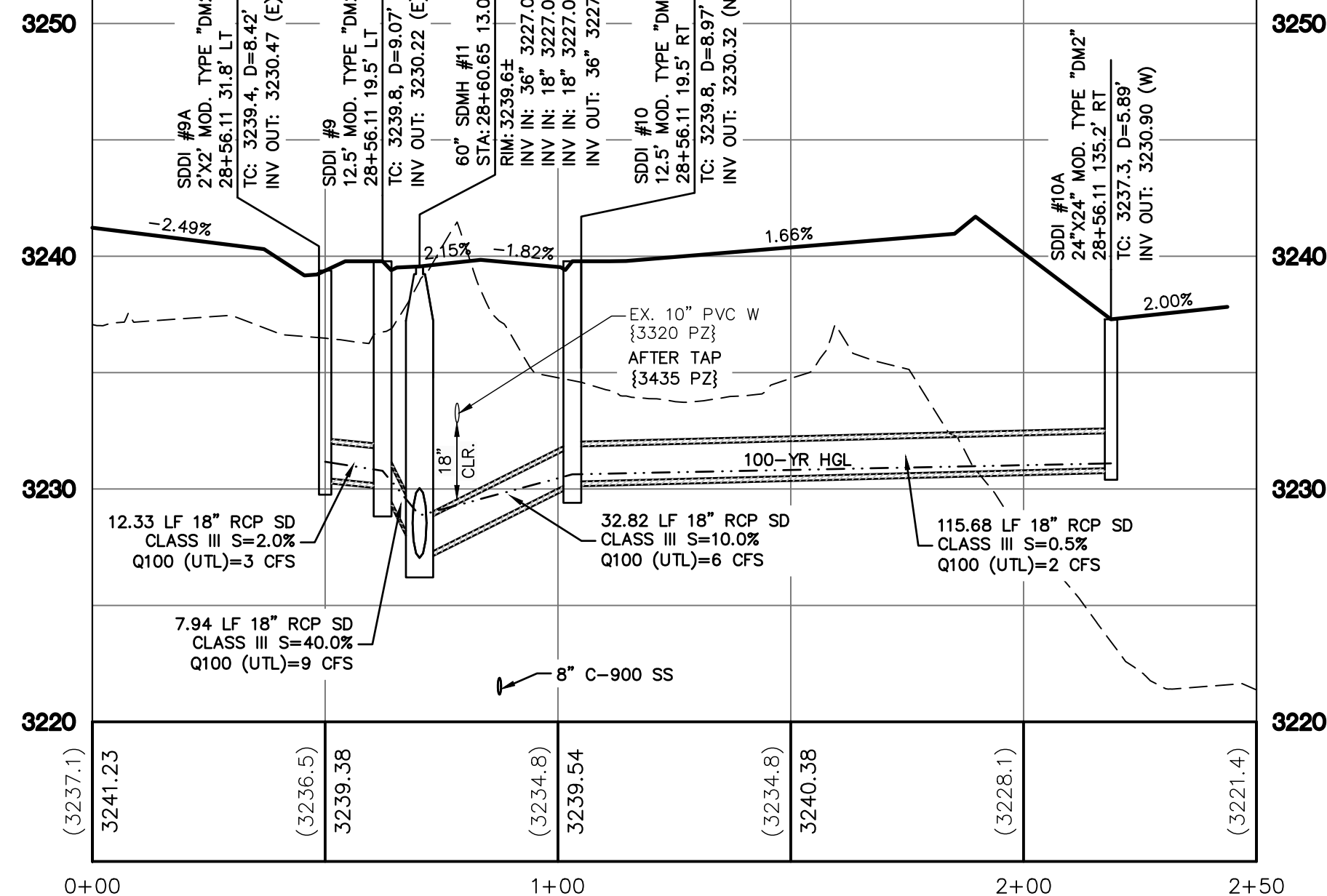
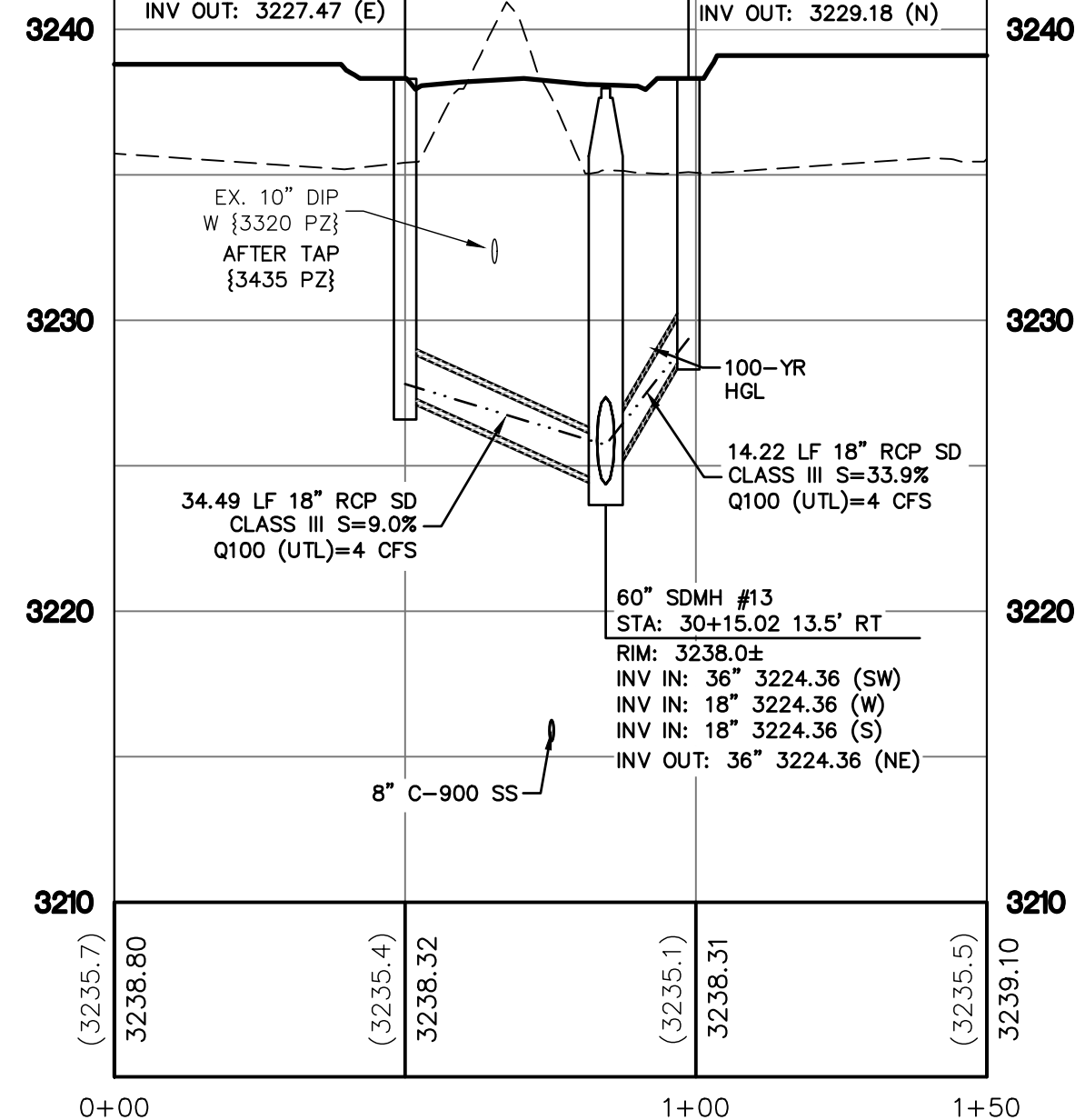
MARKER BALLS

INSTALL PIPELINE MARKER BALLS PER
UDACS PLATE No. 15.



- | ROADWAY CONSTRUCTION NOTES | |
|----------------------------|--|
| 1 | INSTALL 2" AC OVER 4" TYPE II BASE |
| 2 | CONSTRUCT 'L' TYPE CURB AND GUTTER PER CCAUSD No. 216 |
| 3 | CONSTRUCT 10' TRANSITION PER DETAIL 4 ON SHEET D3 |
| 4 | CONSTRUCT 30" MODIFIED ROLL CURB AND GUTTER PER CCAUSD No. 217.1 |
| 5 | CONSTRUCT MODIFIED "A" TYPE CURB PER CCAUSD No. 219 |
| 6 | CONSTRUCT 8' WIDE CROSS GUTTER PER CCAUSD No. 228 |
| 7 | CONSTRUCT 5" THICK CONCRETE SIDEWALK PER CCAUSD No. 234 |
| 8 | CONSTRUCT SIDEWALK DRAIN PER CCAUSD No. 236 |
| 9 | CONSTRUCT SIDEWALK DRAIN PER DETAIL 7 ON SHEET D3 |
| 10 | CONSTRUCT 2' ROLL CURB OPENING PER DETAIL 8 ON SHEET D3 |
| 11 | CONSTRUCT 2' WIDE CROSS GUTTER PER DETAIL 9 ON SHEET D3 |

- | STORM DRAIN CONSTRUCTION NOTES | |
|--------------------------------|--|
| 1 | CONSTRUCT 60" TYPE III MANHOLE PER CCAUSD DWG No. 401 & 406 |
| 2 | CONSTRUCT PRECAST MANHOLE PER CCAUSD DWG No. 401 & 406 |
| 3 | CONSTRUCT 7.5' TYPE "DM2" DROP INLET PER CCAUSD DWG No. 412.1 |
| 4 | CONSTRUCT 10.0' TYPE "DM2" DROP INLET PER CCAUSD DWG No. 412.1 |
| 5 | CONSTRUCT 12.5' TYPE "DM2" DROP INLET PER CCAUSD DWG No. 412.1 |
| 6 | CONSTRUCT 24"x24" GRATE DROP INLET PER CCAUSD DWG No. 412.1 |
| 7 | CONNECTION POINT. SEE DETAIL 6 ON SHEET DT3 |
| 8 | PUBLIC DRAINAGE EASEMENT TO BE PRIVATELY MAINTAINED BY HOA |



- DEPTH OF COVER DURING CONSTRUCTION**
 MAINTAIN MINIMUM TWENTY-FOUR (24) INCH COVER PER UDACS SECTION 2.08.04.
 GRADING MUST BE COMPLETED PRIOR TO WATERLINE INSTALLATION.

- DROP INLET NOTE**
WHERE 10 FEET PARALLEL SEPARATIONS IS NOT PRACTICABLE:
CAST-IN-PLACE MONOLITHIC POUR WITH WATERSTOP BETWEEN SLAB AND WALLS.
BASE, WALLS AND TOP TO BE CONSTRUCTED WITH WATERSTOPS, CENTER BULB, OR
FLAT STRIP. (VINYLEX, GREENSTREAK PLASTIC PRODUCTS OR APPROVED EQUAL)

- FOR TRENCHES SIX (6) FEET WIDE AND GREATER**
- CONTRACTOR MUST SUBMIT PIPE SUPPORT DETAILS PREPARED BY A NEVADA LICENSED ENGINEER TO VVWD PLANNING AND ENGINEERING SERVICES BEFORE CONSTRUCTION TO SHOW HOW WATERLINE(S) WILL BE SUPPORTED DURING EXCAVATION AND BACKFILL. IF THE PIPE MATERIAL IS ACP, THE EXPOSED PIPE MUST BE REPLACED WITH DUCTILE IRON PIPE. SUPPORTED PIPE MAY NOT BE EXPOSED FOR LONGER THAN 14 DAYS MAXIMUM.

- CAUTION TO CONTRACTOR**
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- BASIS OF BEARING**
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- BENCHMARK**
CLARK COUNTY VERTICAL CONTROL POINT: OLVO9 14SE6
ELEVATION: 973.29 METERS (3193.20 FEET)
RIVET & PLATE IN TOP OF CURB ON NORTH SIDE OF LAKE MEAD 0.4 MILES WEST OF
THOMAS RYAN.
BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

- | DRAINAGE CERTIFICATION | |
|---|------------|
| I CERTIFY THAT THE GRADING PLANS ARE IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY ON FILE AT THE CITY OF LAS VEGAS FOR THIS PROJECT. | |
| WESLEY T. PETTY, P.E. 16369 | 05/26/2022 |
| | DATE |

- | | |
|---|----------------------------|
| <u>APPROVED FOR CONSTRUCTION</u> | |
| LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES | |
| PROJECT NO. <u>140344</u> | FIRST APPROVAL DATE: _____ |

PUBLIC DRAINAGE NOTE
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Call before you Dig
Avoid cutting underground utility lines. It's costly.

Call

OR
1-800-642-2444

FAST
Call
before you
UnderGround
1-702-432-5300
FREEWAY AND ARTERIAL
SYSTEM OF TRANSPORTATION

AVOID HITTING OVERHEAD
POWER LINES. IT'S COSTLY

**CALL BEFORE
YOU DO
OVERHEAD**

1-702-227-2929

DEFLECTION NOTE

CAUTION
PERIODIC TEST WIRES AND/OR FIBER
CABLES, RUN ALONG THE SIDE OF THE
TRENCH AT AN UNKNOWN DEPTH.
EXERCISE CAUTION WHEN DIGGING.

MARKER BALLS

[illegible]

PROJECT NO.
764-204-023

555 S. RAINBOW BLVD
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gscwengineering.com

GCLV
ENGINEERS / SURVIVORS

PULTE HOMES
SUMMERLIN - VILLAGE 26 PARCEL L REVERENCE MULTI-FAMILY

DRAWING
LAT2
28 OF 38 SHTS