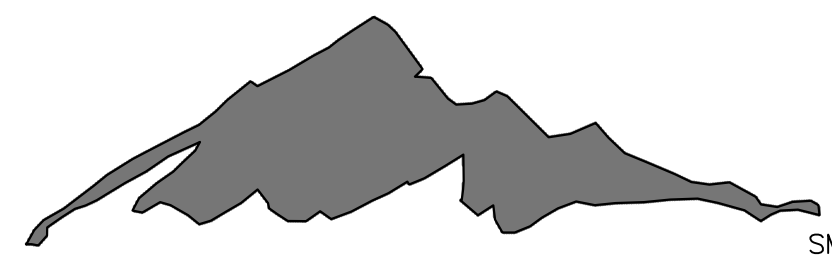


Sheet List Table		
NO	DEG	DESCRIPTION
1	CV	COVER SHEET
2	NT	GENERAL NOTES
3	PD	PROJECT DATA
4	GD1	GRADING PLAN 1
5	GD2	GRADING PLAN 2
6	GD3	GRADING PLAN 3
7	GD4	GRADING PLAN 4
8	DT1	DETAILS & SECTIONS 1
9	DT2	DETAILS & SECTIONS 2
10	DT3	DETAILS & SECTIONS 3
11	MU	MASTER UTILITY PLAN
12	UT1	UTILITY PLAN 1
13	UT2	UTILITY PLAN 2
14	UT3	UTILITY PLAN 3
15	UT4	UTILITY PLAN 4
16	PP1	PLAN & PROFILE 1
17	PP2	PLAN & PROFILE 2
18	PP3	PLAN & PROFILE 3
19	PP4	PLAN & PROFILE 4
20	PP5	PLAN & PROFILE 5
21	PP6	PLAN & PROFILE 6
22	PP7	PLAN & PROFILE 7
23	PP8	PLAN & PROFILE 8
24	PP9	PLAN & PROFILE 9
25	PP10	PLAN & PROFILE 10
26	LA1	STORM DRAIN LATERALS 1
27	LA2	STORM DRAIN LATERALS 2
28	TR1	
29	TR2	
30	TR3	
31	TR4	

SUMMERLIN



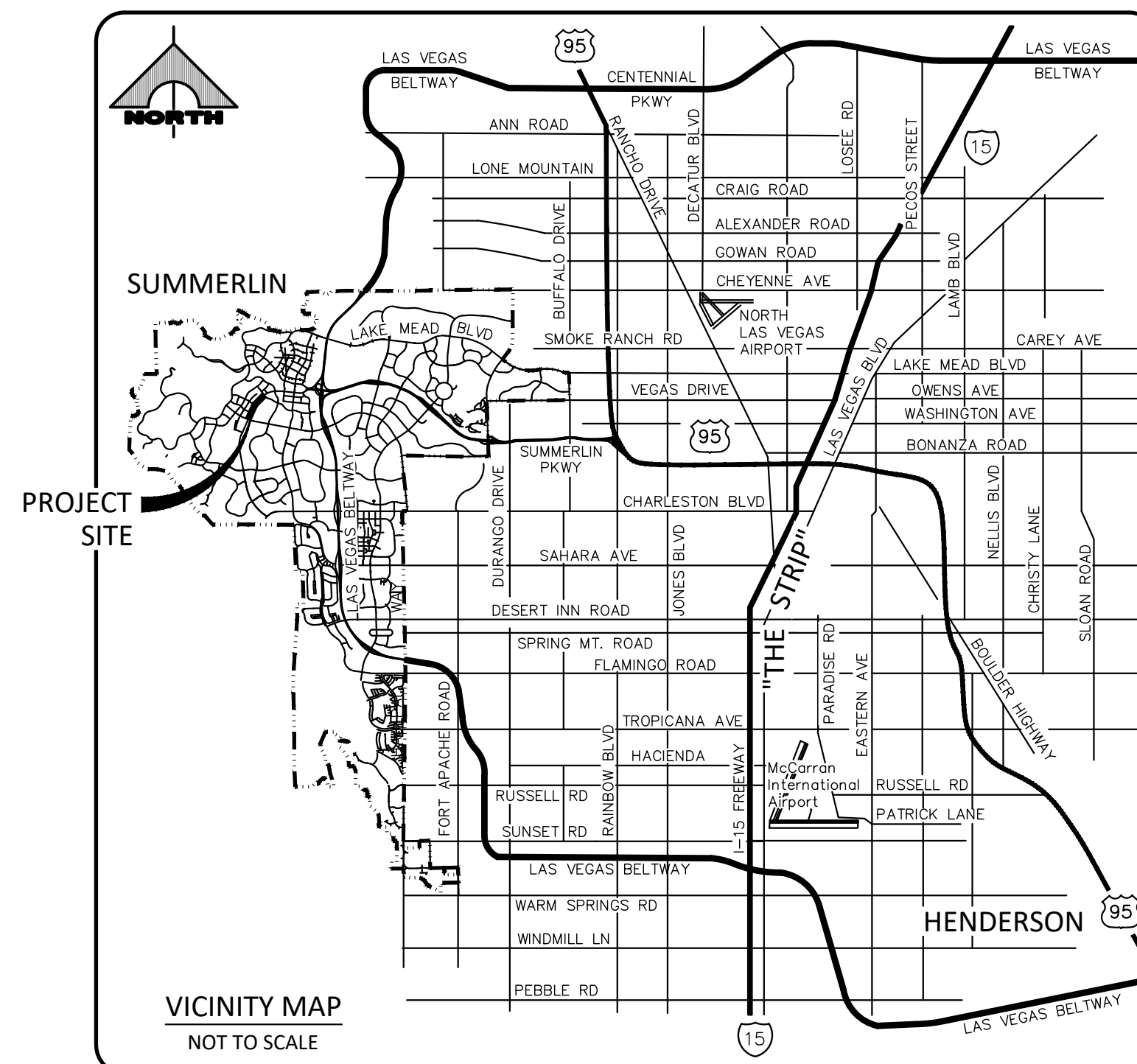
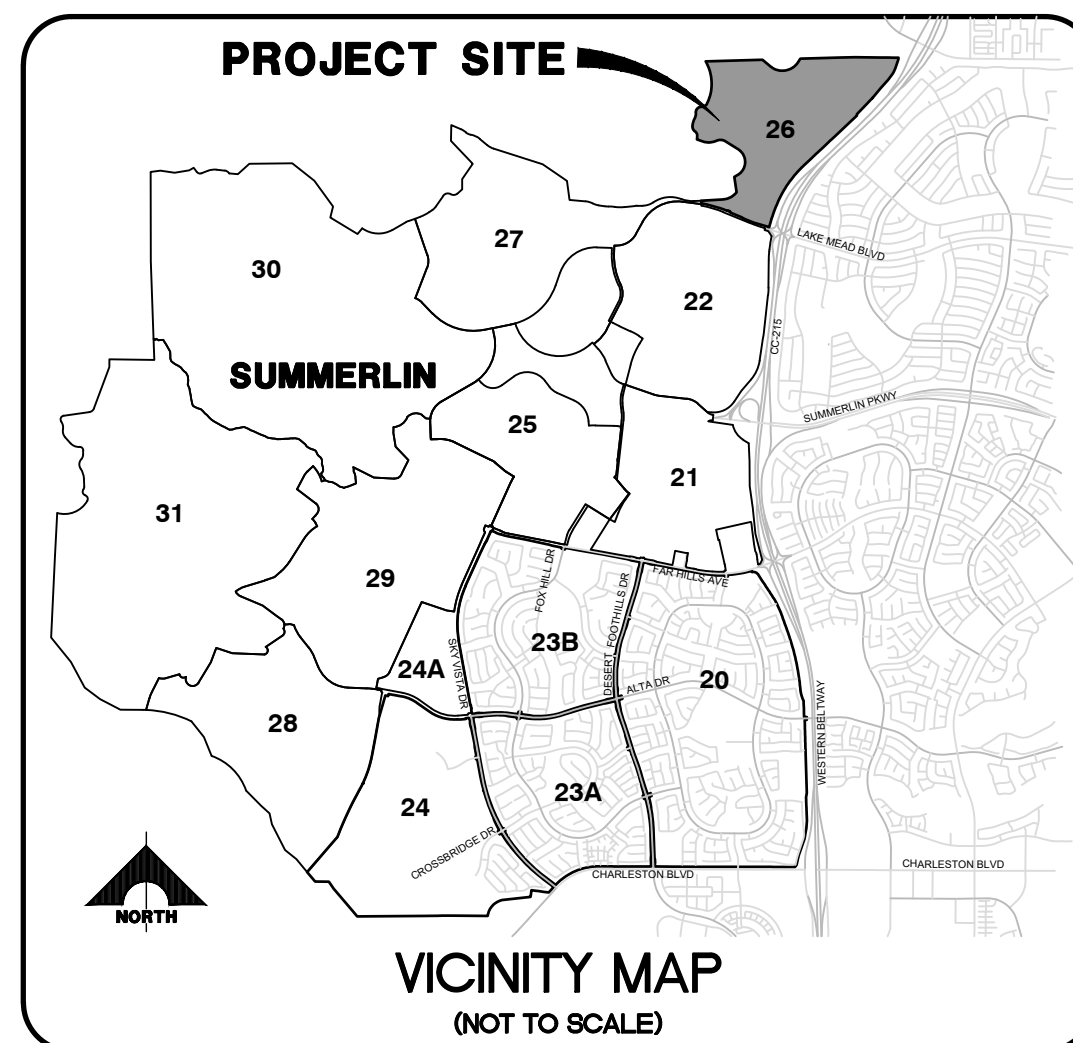
VILLAGE 26 PARCEL L

**REVERENCE MULTI-FAMILY
IMPROVEMENTS**

(LAKE MEAD BOULDEVARD @ REVERENCE PARKWAY)

FUTURE SID #

A.P.N. 137-14-715-038
2021



<u>EARTHWORKS</u>		<u>DENSITY / ACREAGE</u>	
RAW CUT	= 47,975 C.Y.	GROSS ACREAGE:	15.69
RAW FILL	= 68,030 C.Y.	No. OF LOTS:	168
NET FILL	= 20,056 C.Y.	DENSITY (UNIT):	10.71

CAUTION TO CONTRACTOR

THE CONTRACTOR SHALL BE RESPONSIBLE TO INVESTIGATE AND VERIFY THE ACTUAL LOCATION AND DEPTH OF ALL EXISTING UNDERGROUND FACILITIES AT LEAST 48 HOURS IN ADVANCE OF THE PERFORMANCE OF ANY WORK.

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.	
XXXXXXXX X. XXXXXXXX. P.E. XXXXX	03/07/2022
	DATE

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 112, PAGE 94 OF PARCEL MAPS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

BENCHMARK

CLARK COUNTY VERTICAL CONTROL POINT: SLV09 1456

SUMMERLIN VILLAGE 26 - REVERENCE PROJECT MODIFIED DATUM: 3227.64 FEET
NAV088 DATUM: 983.659 METERS (3227.22 FEET)

RIVET & PLATE IN HEAD WALL WEST OF CC215 +/- -250' NORTH OF LAKE MEAD.

TO OBTAIN SUMMERLIN VILLAGE 26 - REVERENCE PROJECT MODIFIED DATUM ADD
0.42 FEET TO NAV088 DATUM.

<u>DRY UTILITY APPROVALS</u>		
COX COMMUNICATIONS LAS VEGAS, INC.		DATE
CENTRAL TELEPHONE CO., DBA CENTURYLINK		DATE
THE AFFIXED CENTURYLINK APPROVAL SHOULD NOT ASSUME OR GUARANTEE LIABILITY FOR KNOWN OR UNKNOWN CONFLICTS WITH EXISTING OR PROPOSED IMPROVEMENTS. RESOLUTION OF ANY CONFLICT WILL BE ACCOMPLISHED PURSUANT TO LOCAL ORDINANCES, NEVADA REVISED STATUTES AND/OR PUBLIC UTILITY COMMISSION RULES AND REGULATIONS.		
NV ENERGY		DATE
NEVADA POWER COMPANY ACKNOWLEDGES THAT WE HAVE RECEIVED YOUR PLAN AND WILL PROVIDE SERVICE TO ALL ELECTRICAL NEEDS ASSOCIATED WITH THIS PROJECT. NEVADA POWER COMPANY RESERVES THE RIGHT TO ADDRESS ANY EXISTING OR FUTURE CONFLICTS ONCE THE FINAL DESIGN IS COMPLETED. THE NEW SERVICE AND THE RESOLUTION OF ANY CONFLICTS WILL BE ACCOMPLISHED PURSUANT TO THE NEVADA PUBLIC UTILITY COMMISSION'S RULES AND REGULATIONS.		
NV ENERGY – TRANSMISSION ENGINEERING		DATE
SOUTHWEST GAS CORPORATION	SWG UID	DATE

THE HOWARD HUGHES COMPANY, LLC

KEVIN ORROCK
VICE PRESIDENT

DATE

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT NO. _____ FIRST APPROVAL DATE: _____

LVWVD APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL

MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 30 GPM

SHEETS: MU, UT1-UT4, PP1-PP10, LAT1-LAT2

LAS VEGAS FIRE & RESCUE APPROVAL

LAS VEGAS FIRE & RESCUE _____ DATE _____

[illegible]

PROJECT NO.	
764-204-023	
DESIGN:	PB
DRAWN:	PB
CHECK:	WP
PLOT DATE:	03-07-22
PLOT TIME:	11:06:03

GCV
ENGINEERS & SURVEYORS

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

PRODUCTS 700-Y64-204-023, UNO PRODUCTION Y64-204-023C01-CY.DWG
PAUL BERGANO

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

DRAWING
CV
1 OF 34 SHTS

- CITY OF LAS VEGAS TRAFFIC SIGNAL NOTES (LD)**
- ALL WORK PERFORMED ON ANY TRAFFIC SIGNAL COMPONENT MUST BE UNDER THE DIRECT ON-SITE SUPERVISION OF AN IMSA CERTIFIED TECHNICIAN. THE LEVEL OF CERTIFICATION REQUIRED SHALL BE LEVEL II.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ALL EXISTING UTILITIES. THE LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES TO VERIFY IN THE FIELD THE LOCATIONS OF THEIR INSTALLATIONS 72 HOURS PRIOR TO CONSTRUCTION.
CALL-BEFORE-YOU-OVERHEAD 1-702-227-2929
CALL-BEFORE-YOU-DIG 1-800-227-2600
STREET LIGHTS 1-702-229-6331
F.A.S.T. 1-702-432-5300
 - ALL TRAFFIC SIGNAL INSTALLATIONS SHALL CONFORM TO THE UNIFORM STANDARD DRAWINGS SPECIFICATIONS AND SPECIAL PROVISIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, VOLUMES I AND II, ADOPTED BY THE REGIONAL TRANSPORTATION COMMISSION APRIL 8, 1992 WITH ALL SUBSEQUENT REVISIONS. BRACKET MOUNTED (SIDE-MOUNTED) VEHICLE SIGNAL ASSEMBLIES WITH 2 OR MORE SIGNAL HEADS SHALL HAVE AN ADDITIONAL ELBOW AS SHOWN IN UNIFORM STANDARD DRAWING NUMBER 863 AND SHOWN AS OPTION B IN UNIFORM STANDARD DRAWING NUMBER 844, AND SHALL HAVE A MENERALLAC SUPPORT AS SHOWN IN UNIFORM STANDARD DRAWING NUMBER 863 IF ONE OF THE SIGNAL HEADS CONTAINS 4 OR MORE SIGNAL MODULES.
 - SERVICE SHALL HAVE 1-60 AMP SINGLE POLE BREAKER FOR SIGNAL, AND ONE 40 AMP SINGLE POLE BREAKERS FOR STREET LIGHTS. SERVICE SHALL BE 200 AMP PADMOUNT AND SHALL HAVE A CAPACITY OF 20 OR 24 CIRCUITS.
 - LINE SIDE OF METER TO BE WIRED WITH THREE #3/0 AWG THW. LOAD SIDE SHALL BE WIRED WITH FOUR #4 AWG THW (2 BLACK, 2 WHITE) AND ONE #8 AWG THW (GREEN).
 - LUMINAIRES ON ALL SIGNAL POLES SHALL BE L.E.D. AS APPROVED BY THE CITY OF LAS VEGAS (CLV). DESIGN PROFESSIONAL AND CONTRACTOR SHALL VERIFY CITY'S LATEST LED FIXTURE SPECIFICATIONS AND APPROVED FIXTURES PER CLV WEBSITE. UNDER BUILDING AND SAFETY PRIOR TO ORDERING MATERIALS. INTERSECTION LIGHTING SHALL MEET THE REQUIREMENTS OF UNIFORM STANDARD DRAWING 300.53. EACH LUMINAIRE SHALL HAVE AN INDIVIDUAL 1000 WATT P.E. CONTROL. FOR LUMINAIRES THERE SHALL BE 2(W) - #4 AWG THW CONDUCTORS FROM THE SERVICE TO THE CABINET. IN THE CABINET, THE #4 AWG THW BRANCH OFF INTO TWO #4 AWG THW CONDUCTORS TO THE LUMINAIRES INDIVIDUALLY FUSED WITH 10 AMP FUSES. THERE SHALL BE NO SPICES BETWEEN THE CABINET AND LUMINAIRE FIXTURES.
 - LUMINAIRES SHALL BE MARKED TO INDICATE INSTALLATION ORIENTATION, AND SHALL HAVE EXTERNAL LABELS PER ANSI C136.15 THAT INDICATE WATTAGE AND ARE CLEARLY VISIBLE FROM STREET LEVEL. TRAFFIC SIGNAL LUMINAIRES INSTALLED ADJACENT TO RESIDENTIAL HOUSING SHALL BE INSTALLED WITH MANUFACTURER PROVIDED HOUSE-SIDE SHIELDS.
 - THE INTERNALLY ILLUMINATED STREET NAME SIGNS SHALL BE WIRED TO THE LUMINAIRES PHOTO CELL FOR CONTROL WITH #10 AWG THW COPPER STRANDED WIRE (TYPICAL). THE SIGN SHALL BE WIRED TO THE LUMINAIRE DIRECTLY ABOVE IT. IN THE EVENT THERE IS NO LUMINAIRE ON THE TRAFFIC SIGNAL POLE, THE 1000 WATT P.E. CONTROL SHALL BE MOUNTED ON THE POLE CAP. ALL NEW ILLUMINATED STREET NAME SIGNS SHALL HAVE LIGHT EMITTING DIODE (LED) LAMPS PER SECTION 623.1.02.16 OF THE SPECIAL PROVISIONS.
 - CHECK CONDUIT AND CABLE SCHEDULE FOR CONDUIT, CABLE, AND WIRE SIZE. VERIFY ALL EXISTING CONDUIT RUNS.
 - ALL PULLBOXES SHALL BE IN ACCORDANCE WITH UNIFORM STANDARD DRAWINGS NO. 705, NO. 706, AND NO. 707.
 - TRAFFIC SIGNAL CABLE SHALL BE 15 OR 25 CONDUCTOR #14 AWG SOLID (TYPICAL) CABLE AND SHALL CONFORM TO IMSA SPEC. NO. 20-1.
 - PEDESTRIAN PUSH BUTTONS SHALL BE AUDIBLE TACTILE "POLAR NAVIGATOR" TYPE (2-WIRE PEDESTRIAN PUSHBUTTON SYSTEM WITH IN2 PUSH BUTTON STATIONS AND SHELF-MOUNT BUI CONTROL UNIT WITH SOLID CABLE) IN ACCORDANCE WITH CITY OF LAS VEGAS AND SECTION 623 OF THE CCA USS. PUSH BUTTON SIGNS SHALL BE R10-34 PER MUTCD, 2009 EDITION, WITH FULL MOUNTING BRACKETS, AS MODIFIED BY THE MANUFACTURER TO FIT ON A 9"x12" SIGN, AND SHALL BE PORCELAIN-ENAMELED METAL. ALL PUSH BUTTONS TO BE MOUNTED 42" ABOVE SIDEWALK. THE MAXIMUM HORIZONTAL REACH DISTANCE IS TO BE 10". SIDEWALK RAMPS WILL BE ACCORDING TO U.S.D. No. 235 (1-4). LATEST EDITION. WHEN AN EXISTING SIGNAL WITH TACTILE PUSH BUTTONS IS MODIFIED, THE CONTRACTOR SHALL VERIFY NEW PEDESTRIAN PUSH BUTTONS OR CABINET EQUIPMENT MATCHES THE MANUFACTURE AND MODEL OF ANY EXISTING EQUIPMENT SCHEDULED TO REMAIN, TO PROVIDE A FULLY FUNCTIONING SYSTEM. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL CABINET EQUIPMENT, INCLUDING THE PEDESTRIAN PUSH BUTTON CONTROL UNIT, INTERFACE PANEL AND ANY REQUIRED HARNESSSES, TO PROVIDE A FULLY FUNCTIONING SYSTEM.
 - THE ROUTING AND TERMINATION OF CONDUITS AND THE PLACING OF POLES AND CABINETS SHALL BE AS INDICATED ON THE PLANS. ALL CHANGES SHALL BE APPROVED BY THE ENGINEER.
 - MAST ARM R10-12 SIGNS TO BE ADJACENT (NO GAP) TO THE M-5 SIGNAL HEAD. WHEN FLASHING YELLOW ARROW LEFT TURN SIGNALS ARE USED, A MAST ARM R10-12F "LEFT TURN YIELD ON FLASHING YELLOW ARROW" SIGN SHALL BE MOUNTED ADJACENT TO THE M-4 SIGNAL HEAD.
 - TRAFFIC SIGNAL CABINET SHALL BE A TYPE VIII CABINET UNLESS OTHERWISE SPECIFIED IN THE PLANS. THIS IS COMMONLY REFERRED TO AS AN "R" CABINET. THE CABINET SHALL CONFORM TO THE CLARK COUNTY AREA UNIFORM STANDARD DRAWINGS AND SPECIFICATIONS AND THE CITY OF LAS VEGAS SPECIAL PROVISIONS AND SHALL BE A NEMA TS2-TYPE2 CABINET. INSTALL CABINET NEAR OR AS SHOWN ON THE DRAWINGS. THE TRAFFIC SIGNAL CONTROLLER CABINET SHALL BE EQUIPPED WITH 16 LOAD BAY POSITIONS AND SHALL BE A 64 DETECTOR CHANNEL R CABINET WITH RACK-MOUNTED DETECTOR CABINET. THE CABINET SHALL CONTAIN A 768 OPTION CHANNEL R WITH A 768 AUXILIARY INTERFACE PANEL MOUNTED IN THE CABINET AND FULLY WIRED FOR GREEN SENSE CAPABILITIES. THE CABINET SHALL BE EITHER: MODEL R-44 CAB, TS2-2, LAS VEGAS, 64CH DET. PART # M73650 FROM MCCAIN, INC.; MODEL M0BOTREX LAS VEGAS TS2-TYPE2 16 POS., 64 CH. DET. DRAWING # T4210-0001 REV. 3 FROM SIERRA TRANSPORTATION AND TECHNOLOGIES; OR MODEL TS2-2 HW 16 POSITION HORIZONTAL CITY OF LAS VEGAS CABINET, PART # 34413619-02-06 FROM ECONOLITE CONTROL PRODUCTS, INC. ALL CABINETS SHALL BE PROVIDED WITH A COMPLETE SET OF FOUR BUS INTERFACE UNITS, POWER SUPPLY AND CABLES TO PROVIDE A FULLY FUNCTIONING SYSTEM. CABINET POWER SUPPLIES SHALL BE RENO A&E MODEL CPS-TS2-LED, PEEK MODEL PSI101, OR ECONOLITE PS-200. BUS'S SHALL BE RENO A&E MODEL 1240, PEEK MODEL BUS INTERFACE UNIT 82-1886-01, OR ECONOLITE PART # 160-1018-501.
 - THE CONTRACTOR SHALL SUPPLY A MALFUNCTION MANAGEMENT UNIT (MMU) AND TRAFFIC SIGNAL CONTROLLER TO THE CITY OF LAS VEGAS TRAFFIC SIGNAL REPAIR SHOP A MINIMUM OF FOURTEEN DAYS PRIOR TO SIGNAL TURN-ON OR PRIOR TO CONVERTING TO A NEW PHASING SCHEME, FOR TESTING AND PROGRAMMING PURPOSES. THE CONTROLLER SHALL BE A NAZTEC 980 ATC TS2-TYPE2 2 NTOP COMPLIANT SIGNAL CONTROLLER WITH INSTALLED AND LICENSED APOCEE CONTROLLER SOFTWARE, LATEST VERSION, AND THE MMU SHALL BE A MODEL MMU-1600GE AS MANUFACTURED BY RENO A&E, OR APPROVED EQUAL. THE CONTRACTOR SHALL DELIVER THE CONTROLLER AND MMU TO AND PICKUP THE CONTROLLER AT 9885 RONINUS DR. CONTRACTOR SHALL NOTIFY TRAFFIC ENGINEERING FIELD OPERATIONS (702-229-6331) SEVEN DAYS PRIOR TO PICK UP. THE CITY, AT ITS DISCRETION, MAY PROVIDE A DIFFERENT MODEL MMU FOR INITIAL TURN-ON, IN WHICH CASE CITY PERSONNEL WILL SWAP THE MMU AFTER THE PROJECT IS ACCEPTED.
 - CONTRACTOR SHALL POTHOLE SIGNAL POLE LOCATIONS PRIOR TO ORDERING OF POLES.
 - ALL MAST ARMS TO BE HOT-DIP GALVANIZED BY THE MANUFACTURER THE MAST ARM IS TO BE FABRICATED WITH END TENON ONLY. THE END TENON SHALL BE FACTORY INSTALLED AND THE REMAINING TENONS SHALL BE FABRICATED IN THE FIELD. AT THE LOCATION SHOWN ON THE PLANS OR AS DIRECTED BY THE TRAFFIC ENGINEER AND/OR HIS AUTHORIZED REPRESENTATIVE, FOR TENON FABRICATION DETAILS SEE CLARK COUNTY AREA U.S.D. NO. 808 SIGN 2" ALL WELDING SHALL CONFORM TO AWS D 2.0, "SPECIFICATION FOR WELDED HIGHWAYS AND RAILWAY BRIDGES," AND TO ANY ADDITIONAL REQUIREMENTS OF SECTION 623 OF THE SPECIFICATIONS. ALL EXPOSED WELDS, SHALL BE PAINTED AS PROVIDED FOR REPAIRING DAMAGED GALVANIZED SURFACES.
 - ALL VEHICLE AND PEDESTRIAN SIGNAL INDICATIONS SHALL HAVE LIGHT EMITTING DIODE (LED) TYPE INDICATIONS, IN CONFORMANCE TO CITY OF LAS VEGAS SPECIAL PROVISIONS AND TO SECTION 623 OF THE CCA USS. ALL PEDESTRIAN SIGNAL FLASHES SHALL PROVIDE "WALKING PERSON", "HAND", AND "COUNTDOWN" MESSAGES AS PROVIDED BY DURAGLINT SOFTWARE, LATEST VERSION, AND THE MMU SHALL BE A MODEL MMU-1600GE AS MANUFACTURED BY RENO A&E, OR APPROVED EQUAL. THE CONTRACTOR SHALL DELIVER THE CONTROLLER AND MMU TO AND PICKUP THE CONTROLLER AT 9885 RONINUS DR. CONTRACTOR SHALL NOTIFY TRAFFIC ENGINEERING FIELD OPERATIONS (702-229-6331) SEVEN DAYS PRIOR TO PICK UP. THE CITY, AT ITS DISCRETION, MAY PROVIDE A DIFFERENT MODEL MMU FOR INITIAL TURN-ON, IN WHICH CASE CITY PERSONNEL WILL SWAP THE MMU AFTER THE PROJECT IS ACCEPTED.
 - VIDEO DETECTION SYSTEMS SHALL BE TS2 COMPATIBLE AND SHALL INPUT DETECTOR CALLS TO THE CONTROLLER THROUGH AN SDLC CABLE. SYSTEMS WILL BE EITHER ITERIS EDGE 2-1IN PROCESSORS WITH VRACKS-PS, EDGE2-TS2-IM-PAK AND EDGECONSOLE PAK, (IF ADDRESSABLE); PEEK VIDEOIRAK IQ (WITH ETHERNET PORT AND SDLC); ECONOLITE AUTOSCOPE VISION SYSTEM WITH CUMM DETECTOR AND MINI DETECTION PROGRAMMING KIT MOUNTED IN THE CABINET; OR TRAFCON VP WITH VIEWCOM (IF ADDRESSABLE) AND PIM (SDLC). WHEN VIDEO DETECTION IS SPECIFIED ON THE TRAFFIC SIGNAL PLANS, ALL VIDEO DETECTION SYSTEMS WILL BE STAND ALONE SYSTEMS TO INCLUDE ALL NECESSARY EQUIPMENT TO PROGRAM THE VIDEO DETECTION SYSTEM. A PROGRAMMING "MOUSE", KEYPAD OR LAPTOP COMPUTER (IF REQUIRED FOR PROGRAMMING THE VIDEO DETECTION SYSTEM) AND APPROPRIATE SOFTWARE WILL BE SUPPLIED WITH EACH VIDEO SYSTEM. PERSONAL COMPUTERS (PCs) MAY NOT BE SUBSTITUTED FOR LAPTOPS. A VIDEO MONITOR (COLOR FLAT SCREEN) 9" TO 13" WILL BE SUPPLIED WITH EACH VIDEO DETECTION SYSTEM. EACH VIDEO CAMERA WILL HAVE POWER AND VIDEO CABLE DIRECTLY FROM THE CABINET. COAXIAL CABLE WILL BE TYPE 82B1 (SOLID CENTER CONDUCTOR). CAMERAS THAT USE A PREFABRICATED CABLE INTEGRATING POWER AND VIDEO INTO A SINGLE WEATHERPROOF CONNECTOR ARE ACCEPTABLE. "BNC" ARE THE ONLY ACCEPTABLE TERMINATION OF COAXIAL CABLES. CAMERAS WILL BE MOUNTED PER MANUFACTURER'S RECOMMENDATIONS AND PER CLV TRAFFIC ENGINEER APPROVAL. VIDEO CAMERAS SHALL BE COLOR AND SHALL BE MOUNTED ON A MINIMUM 6 FOOT RISER ON THE SIGNAL MAST ARM WITH EXTENSION BRACKETS (TYPE AG-0765-74-62 OR EQUIVALENT). THE LOCATION OF THE CAMERA ON THE MAST ARM SHALL BE APPROVED BY THE TEFO TRAFFIC SIGNAL SUPERVISOR. A VIDEO FILTER (CX06-BNYC OR EQUIVALENT) WILL BE INSTALLED IN THE SIGNAL CABINET FOR EACH CAMERA VIDEO INPUT WHEN COAX IS USED. VIDEO DETECTION PROCESSORS AND COMMUNICATIONS CARDS SHALL BE PROVIDED WITH THE LATEST VERSIONS OF THE MANUFACTURER'S SOFTWARE. THE CONTRACTOR SHALL AIM CAMERAS AND PROGRAM AND CONFIGURE THE VIDEO DETECTION PROCESSORS TO PROVIDE A FULLY FUNCTIONING SYSTEM.
 - WHERE NEW LOOPS WILL BE OVERLAID WITH NEW PAVEMENT, LOOP DETECTORS SHALL BE PREFORMED LOOPS AS MANUFACTURED BY RENO A & E LOOP SYSTEMS AND ALL LOOPS SHALL BE INSTALLED IN THE ROADWAY PRIOR TO THE PLACEMENT OF THE FINAL PAVEMENT LIFT. WHERE NEW LOOPS ARE INSTALLED THAT ARE NOT OVERLAID WITH NEW PAVEMENT, LOOPS SHALL BE CABLE-IN-DUCT PER SECTION 623.1.02.04.C OF THE CITY OF LAS VEGAS SPECIAL PROVISIONS. LOOP LEAD-IN CABLE SHALL BE 6-PAIR 18 AWG MULTIPLE CONDUCTOR CABLE AS SPECIFIED IN SECTION 623.1.02.04 OF THE CITY OF LAS VEGAS SPECIAL PROVISIONS. ALL WIRING HARNESSSES, BACK POSITIONS, AND LOOP LEAD-IN CABLE SHALL BE CLEARLY MARKED AS TO THE APPROPRIATE PHASE AND LETTER DESIGNATION TO WHICH IT BELONGS AS SHOWN ON THE TRAFFIC SIGNAL PLANS. LOOPS SHALL BE LOCATED AS SHOWN ON THE TRAFFIC SIGNAL PLANS AND APPROVED BY THE CLV TRAFFIC ENGINEERING DIVISION PRIOR TO INSTALLATION. REFER TO SECTION 623.1.02.04 OF THE CLV SPECIAL PROVISIONS FOR ADDITIONAL REQUIREMENTS.
 - OPTICAL PREEMPTION UNITS WILL BE GLOBAL TRAFFIC TECHNOLOGIES (ENCODING CAPABLE), MODEL 764 OPTION PHASE SELECTOR INSTALLED IN A MODEL 760 RACK WITH A MODEL 768 AUXILIARY INTERFACE PANEL (AIP) MOUNTED IN THE CABINET AND FULLY WIRED FOR GREEN SENSE CAPABILITIES. OPTICAL SENSORS WILL BE MODEL 721 WITH ONE DETECTOR PER DIRECTION, UNLESS SHOWN OTHERWISE IN THE PLANS, AND WILL BE INTERFACED TO THE TRAFFIC SIGNAL CONTROLLER CABINET WITH M-135 CABLE. THE SOUTHWEST GAS CORPORATION SHALL BE WIRED TO INPUT PREEMPTS ON CHANNEL 1 IN THE PHASE SELECTOR, EASTBOUND ON CHANNEL 2, NORTHBOUND ON CHANNEL 3, AND WESTBOUND ON CHANNEL 4. UNLESS VARIATIONS ARE APPROVED BY THE TRAFFIC SIGNAL SUPERVISOR, WHEN 764 PHASE SELECTORS ARE ADDED TO A CABINET WITHOUT A 768 AIP, THE CONTRACTOR SHALL INSTALL AND WIRE A NEW 768 AIP.
 - IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY CONSTRUCTION, TEMPORARY REMOVAL, OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED AT THE CONTRACTORS EXPENSE TO THE SATISFACTION OF THE CITY.
 - INTERCONNECT CABLE SHALL BE AS SHOWN IN THE WIRE SCHEDULE.
 - THE CONTRACTOR SHALL INSTALL GROWWALKS, STOP BARS, STRIPING AND SIGNS AS IDENTIFIED ON THE PLANS.
 - WHERE THE PLANS CALL FOR REMOVAL AND SALVAGE OF EXISTING TRAFFIC SIGNAL EQUIPMENT, THE CONTRACTOR SHALL CALL 702-229-6331 TO SPEAK TO A TRAFFIC FIELD SUPERVISOR TO ARRANGE FOR DELIVERY TIMES AND LOCATIONS.
 - THE CONTRACTOR SHALL MAINTAIN EXISTING SIGNALS THROUGH THE LIFE OF THE PROJECT PER SECTION 623.6.03.01N OF THE CLV SPECIAL PROVISIONS.

REVISED JANUARY 11, 2021

ABBREVIATIONS

A	AIR	DG	DESIGN GRADE	No.	NUMBER	SF	SQUARE FOOT/FEET
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	DI/D.I.	DROP INLET	NOSHA	STATE OF NEVADA OCCUPATIONAL SAFETY AND HEALTH ADMIN.	SHLDR	SHOULDER
AC	ASPHALT CONCRETE, ACRE	DIA, Ø	DIAMETER	NPC	NEVADA POWER COMPANY	SIS	SHEET
ACP	ASBESTOS CEMENT PIPE	DIST	DISTANCE	NTS	NOT TO SCALE	SL	STREET LIGHT
ADD'L	ADDITIONAL	DR	DRIVE	NVE	NV ENERGY	SP	SERVICE POINT
AG	AGGREGATE BASE	DS	DOWNSPOUT	OB	OVERBUILD	SQ	SQUARE
AP	ANGLE POINT	DTL	DETAIL	OC	ON CENTER	SR	SEWER RECLAIM MAIN
APN	ASSESSOR'S PARCEL NUMBER	DRV, DW	DRIVEWAY	OH	OVERHEAD COX COMMUNICATION	SS, SSWR	SANITARY SEWER
APPROX	APPROXIMATELY	DWP	DRAWING	OHF	OVERHEAD POWER LINE	SMH	SANITARY SEWER MANHOLE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	E	EAST	P	POWER LINE	STA	STATION
AVE	AVENUE	ECR	END CURB RETURN	PAC	PUBLIC ACCESS EASEMENT	ST	STREET
AVAR	AIR VALVE, AIR RELEASE ASSEMBLY	EG	EXISTING GROUND	PB	PULL BOX	STD	STANDARD
AWWA	AMERICAN WATER WORKS ASSOCIATION	ELEC, ELE	ELECTRICAL	PBS	PLANKMIX BITUMINOUS SURFACE	STL	STEEL
BC	BACK OF CURB	ELEV	ELEVATION	PC	POINT OF CURVE, PRESSURE CLASS	STRUCT	STRUCTURE
BOR	BEGIN CURB RETURN	EP, EOP	EDGE OF PAVEMENT EASEMENT	PCC	POINT OF COMPOUND CURVE or PORTLAND CEMENT CONCRETE	SVZ	SIGHT VISIBILITY ZONE
BLM	BUREAU OF LAND MANAGEMENT	EVC	END VERTICAL CURVE	PDE	PUBLIC DRAINAGE EASEMENT	SWG	SOUTHWEST GAS
BLVD	BOULEVARD	EX, EXIST	EXISTING VERTICAL POINT	PE	PROJECT ENGINEER or POLYETHYLENE	T	TELEPHONE or TOP
BM	BENCHMARK	EXP	EXPANSION JOINT	PED	PEDESTRIAN	TAN	TANGENT
B0	BLOW-OFF	F	FACE OF CURB	PGL	PROFILE GRADE LINE	TC	TOP OF BERM
BVCE	BEGIN VERTICAL CURVE ELEVATION	FF, FFE	FINISH FLOOR ELEVATION	PH	POTHOLE	TC	TOP OF CURB
BVCS	BEGIN VERTICAL CURVE STATION	FIN	FINISH SURFACE	PI	POINT OF INTERSECTION	TEMP	TEMPORARY
BWP	BEGIN VERTICAL POINT	FL	FLOW LINE	PIV	POST INDICATOR VALVE	TF	TOP OF FOOTING
BW	BACK OF SIDEWALK	FLC	FIBER OPTIC	PL, P/L	PROPERTY LINE	TG	TOP OF GRADE
C, CL	CENTERLINE	FRP	FIBERGLASS REINFORCED PLASTIC	PLCP	POLYURETHANE LINED AND COATED STEEL PIPE	TMH	TOP OF MANHOLE
C&G	CURB & GUTTER	FT	FOOT/FEET	PLT	PAVEMENT MARKING FILM	TP	TOP OF PIPE
C&G	CURB & GUTTER	FTG	FOOTING	POB	POINT OF BEGINNING	TRANS	TRANSITION
C&G	CURB & GUTTER	FUT	FUTURE	PCC	POINT ON CURVE, POINT OF CONN.	TW, TRW	TOP OF RETAINING WALL
C&G	CURB & GUTTER	G	GAS	POT	POINT ON TANGENT	TS	TEST STATION
C&G	CURB & GUTTER	G	GAS	CPW	CLARK COUNTY PUBLIC WORKS	TSW	TOP OF SCREEN WALL
C&G	CURB & GUTTER	GB	GRADE BREAK	PRC	POINT OF REVERSE CURVE	TS&V	TAPPING SLEEVE & VALVE
C&G	CURB & GUTTER	GND	GROUND	PRVC	POINT OF REVERSE VERTICAL CURVE	TYP	TYPICAL
C&G	CURB & GUTTER	GRD	GRADE, GROUND	PROP	PROPOSED	UDACS	UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (LATEST ED.)
C&G	CURB & GUTTER	H, HGT	HEIGHT	PSI	POUNDS PER SQUARE INCH	UG	UNDERGROUND
C&G	CURB & GUTTER	HDWL	HEADWALL	PT	POINT OF TANGENCY	ULT	ULTIMATE
C&G	CURB & GUTTER	HGL	HYDRAULIC GRADE LINE	PUB	PUBLIC	USDCCA	UNIFORM STD. DRAWINGS FOR PUBLIC WORKS' CONSTRUCTION
C&G	CURB & GUTTER	HORIZ	HORIZONTAL	PUE	PUBLIC UTILITY EASEMENT	USD	OFF-SITE IMPROVEMENTS CLARK COUNTY AREA, NEVADA (LATEST EDITION)
C&G	CURB & GUTTER	HP	HIGH POINT, HIGH PRESSURE	PVC	POLYVINYL CHLORIDE	UT	UNDERGROUND TELEPHONE
C&G	CURB & GUTTER	HPS	HIGH PRESSURE SODIUM	PW	POINT OF VERTICAL INTERSECTION	VAR	VARIABLE/VARIES
C&G	CURB & GUTTER	IBC	INTERNATIONAL BUILDING CODE	PVMT	PAVEMENT	VC	VERTICAL CURVE
C&G	CURB & GUTTER	INB	INVERT	PVTE	PRIVATE DRAINAGE EASEMENT	VCP	VERTICAL
C&G	CURB & GUTTER	INT	INTERIM	PZ	PRESSURE ZONE	VOL	VOLUME
C&G	CURB & GUTTER	INT	INTERIM	R, RAD	RADIAL, RADIUS	W	WITH
C&G	CURB & GUTTER	JT	JUNCTION	REC	REINFORCED CONCRETE BOX	WMH	WATER MANHOLE
C&G	CURB & GUTTER	L	LENGTH	RD	ROAD	WS	WATER SUPPLY
C&G	CURB & GUTTER	LT	LEFT	RD	ROAD	WT	WEIGHT
C&G	CURB & GUTTER	LF	LINEAR FEET	RD	ROAD	WTR	WATER
C&G	CURB & GUTTER	LIP	LIP OF GUTTER	REF	REFERENCE	XING	CROSSING
C&G	CURB & GUTTER	LANE	LANE	REF	REFERENCE	Y	YARD, YARD DRAIN
C&G	CURB & GUTTER	LP	LOW POINT, LIGHT POLE	REINF	REINFORCED	Z	PRESSURE ZONE
C&G	CURB & GUTTER	LS, LSCP	LANDSCAPE	REO	REQUIRED		
C&G	CURB & GUTTER	LVWD	LAS VEGAS VALLEY WATER DISTRICT	RM	TOP OF RIM ELEVATION		
C&G	CURB & GUTTER	MAX	MAXIMUM	RND	ROUND		
C&G	CURB & GUTTER	M	MANHOLE	R/W, ROW	RIGHT OF WAY		
C&G	CURB & GUTTER	MIN	MINIMUM	RP	RADIUS POINT		
C&G	CURB & GUTTER	MLTMC	MORTAR LINED TAPE & MORTAR COATED PIPE	RPW	RAISED PAVEMENT MARKERS		
C&G	CURB & GUTTER	MOD	MODIFY/MODIFIED	RSGV	RESILIENT SEAT GATE VALVE		
C&G	CURB & GUTTER	MON	MONUMENT	RT	RIGHT		
C&G	CURB & GUTTER	MPH	MILES PER HOUR	S	SEWER, SOUTH		
C&G	CURB & GUTTER	N	NORTH	SCH	SCHEDULE		
C&G	CURB & GUTTER	N.A.P.	NOT-A-PART	SDWK, SW	SIDEWALK		
C&G	CURB & GUTTER	NDOT	NEVADA DEPARTMENT OF TRANSPORTATION	SD	STORM DRAIN		
C&G	CURB & GUTTER	NLC	NOT IN CONTACT	SDMH	STORM DRAIN MANHOLE		
C&G	CURB & GUTTER	SECT	SECTION	SECT	SECTION		

LEGEND

	TYPICAL PROPOSED LINEWORK		DETAIL BUBBLE W/ REF.
	TYPICAL EXISTING LINEWORK		BENCHMARK
	TYPICAL FUTURE LINEWORK		GATE VALVE
	SECTION LINE		PRESSURE REDUCING VALVE
	EASEMENT LINE		BACK WATER VALVE
	DAYLIGHT GRADING		DROP INLET
	FLOWLINE		FIRE HYDRANT
	GRADE BREAK		WATER METER
	EDGE OF PAVEMENT		WATER RPPA
	LOTLINE		WATER RPDA
	RIGHT-OF-WAY LINE		TRAFFIC SIGNAL PULL BOX
	PROPERTY LINE/BOUNDARY		STREET LIGHT CLARK COUNTY
	CENTERLINE		STREET LIGHT SUMMERLIN STD
	TYPICAL UTILITY LINE 2" - 12" (SINGLE LINE)		TRAFFIC SIGNAL/FLASHER
	TYPICAL UTILITY LINE > THAN 12" (DOUBLE LINE)		EXISTING TELE POLE
	TYPICAL SEWER LINE W/MH		EXISTING POWER POLE
	TYPICAL WATER LINE W/GV		EXISTING POLE
	TYPICAL STORM LINE W/MH		EX. ELEC MARKER
	100 YR HYDRAULIC GRADE LINE		TRANSFORMER PAD
	CONCRETE OR STEEL EASEMENT		SERVICE PEDESTAL
	TYPICAL STUB & BLOW-OFF		PULLBOX
	EX. GAS LINE		PROPOSED CONTOUR
	EX. ELECTRICAL		EXISTING CONTOUR
	EX. CABLE TV		PROPOSED SPOT ELEVATION
	EX. TELEPHONE		EXISTING SPOT ELEVATION
	EX. OVERHEAD POWER LINES		PROPOSED SLOPE
	EX. ELEC & PWR POLES		SLOPE DIRECTION
	TYPICAL CURB & GUTTER, SIDEWALK AND RAMP		TOE SLOPE
	RETAINING WALL		FINISH FLOOR ELEVATION
	SAWCUT		
	SCARPLINE		
	SWALE FLOWLINE		
	CHAIN LINK FENCE		
	WROUGHT IRON FENCE		
	POST AND CABLE FENCE		
	SIGHT VISIBILITY ZONE		
	PEDESTRIAN ACCESS		
	PROPOSED ABANDONMENT		
	EXISTING ABANDONMENT		

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 112, PAGE 94 OF PARCEL MAPS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

BENCHMARK

BM#	DESCRIPTION	NAVD 88 DATUM	NAVD 88 DATUM
CLV BM No. 7LV0934DW6	FIND CORNER AND PLATE IN TOP OF CURB SE CORNER OF DESERT MOON RD. AND SKY VISTA DR. TS05,R59E,S34	3318.31 (FEET)	1,011.422 (METERS)

ROADWAY IMPROVEMENTS

DESCRIPTION	UNIT	PUBLIC	PRIVATE
TYPE II GRAVEL	CY		2,072
2-INCH ASPHALTIC CONCRETE PAVING	SY		14,356
"A" CURB "L" CURB & GUTTER ROLL CURB	LF		9,032
SIDEWALK RAMP	EA		
COMMERCIAL DRIVEWAY	SF		
CONCRETE CROSS GUTTER	SF		6,779
4-INCH CONCRETE SIDEWALK	SF		4,752
SIDEWALK UNDERDRAIN	EA		
SURVEY MONUMENTS: TYPE II	EA		

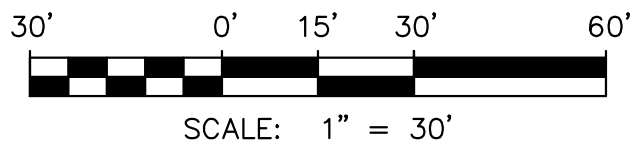
TRAFFIC IMPROVEMENTS

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		
8-INCH WIDE WHITE PAINTED LINE	LF		

STORM IMPROVEMENTS

DESCRIPTION	UNIT	PUBLIC	PRIVATE
18-INCH STORM SEWER PIPE (RCP)	LF	249	
30-INCH STORM SEWER PIPE (RCP)	LF	960	
36-INCH STORM SEWER PIPE (RCP)	LF	423	
48-INCH STORM SEWER PIPE (RCP)	LF	69	
7.5-FOOT MOD. TYPE "C" DOPE INLET	EA	3	
10.0-FOOT MOD. TYPE "C" DOPE INLET	EA	4	
12.5-FOOT MOD. TYPE "C" DOPE INLET	EA	6	
24"x24" GRATE DROP INLET	EA	1	
60-INCH SD MANHOLE (<6')	EA	14	

WATER IMPROVEMENTS



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

1	CONSTRUCT 60" TYPE III MANHOLE PER USDOCCA DWG No. 401 & 406
2	CONSTRUCT PRECAST MANHOLE PER USDOCCA DWG No. 401 & 406
3	CONSTRUCT 7.5" TYPE "DM2" DROP INLET PER USDOCCA DWG No. 412.1
4	CONSTRUCT 10.0" TYPE "DM2" DROP INLET PER USDOCCA DWG No. 412.1
5	CONSTRUCT 12.5" TYPE "DM2" DROP INLET PER USDOCCA DWG No. 412.1
6	CONSTRUCT 24"x24" GRATE DROP INLET PER USDOCCA DWG No. 412.1
7	CONNECTION POINT. SEE DETAIL 6 ON SHEET DT3

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

EXISTING UTILITIES SHOWN HEREIN ARE APPROXIMATE ONLY AND MAY NOT SHOW ALL UTILITIES FACILITIES WITHIN THE PROJECT AREA. CONTRACTOR MUST FIELD VERIFY AND LOCATE ALL EXISTING UTILITIES WITHIN THE PROJECT AREA PRIOR TO BEGINNING CONSTRUCTION. ALL EXISTING UTILITIES MUST BE PROTECTED IN PLACE DURING CONSTRUCTION UNLESS OTHERWISE NOTED ON DRAWINGS. CONTACT UTILITY COMPANIES AT LEAST 24 HOURS PRIOR TO INTERRUPTION OF SERVICE.

THE CONTRACTOR SHALL BE RESPONSIBLE TO INVESTIGATE AND VERIFY THE ACTUAL LOCATION AND DEPTH OF ALL EXISTING UNDERGROUND FACILITIES AT LEAST 48 HOURS IN ADVANCE OF THE PERFORMANCE OF ANY WORK.

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 112, PAGE 94 OF PARCEL MAPS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

CLARK COUNTY VERTICAL CONTROL POINT: SLV09 14S6

SUMMERLIN VILLAGE 26 - REVERENCE PROJECT MODIFIED DATUM: 3227.64 FEET
NAVD88 DATUM: 983.659 METERS (3227.22 FEET)

RIVET & PLATE IN HEAD WALL WEST OF CC215 +/-250' NORTH OF LAKE MEAD

TO OBTAIN SUMMERLIN VILLAGE 26 - REVERENCE PROJECT MODIFIED DATUM ADD
0.42 FEET TO NAVD88 DATUM.

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.

03/07/2022

WESLEY T. PETTY, P.E. 16369 DATE



--	--

E: 11:06:47

DESIGN: PB

AWN: PB

T: 702.804.2000
F: 702.804.2299
gcwengineering.com

gcwengineering.com

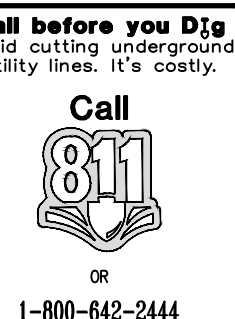
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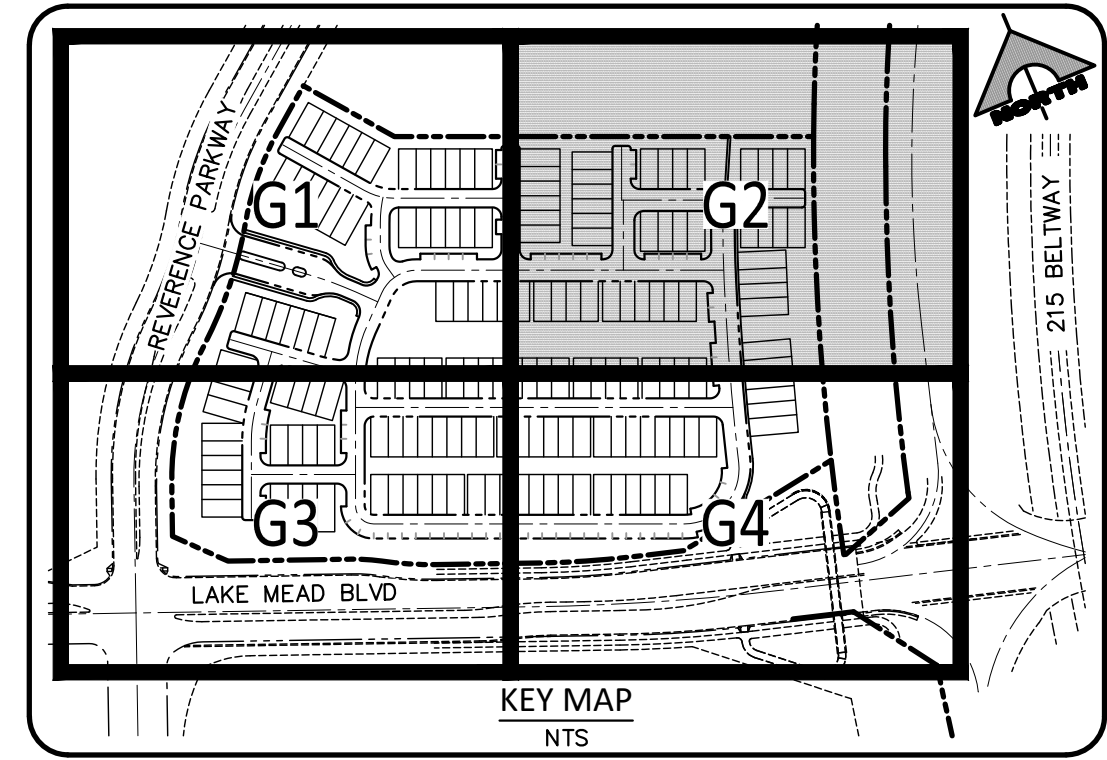
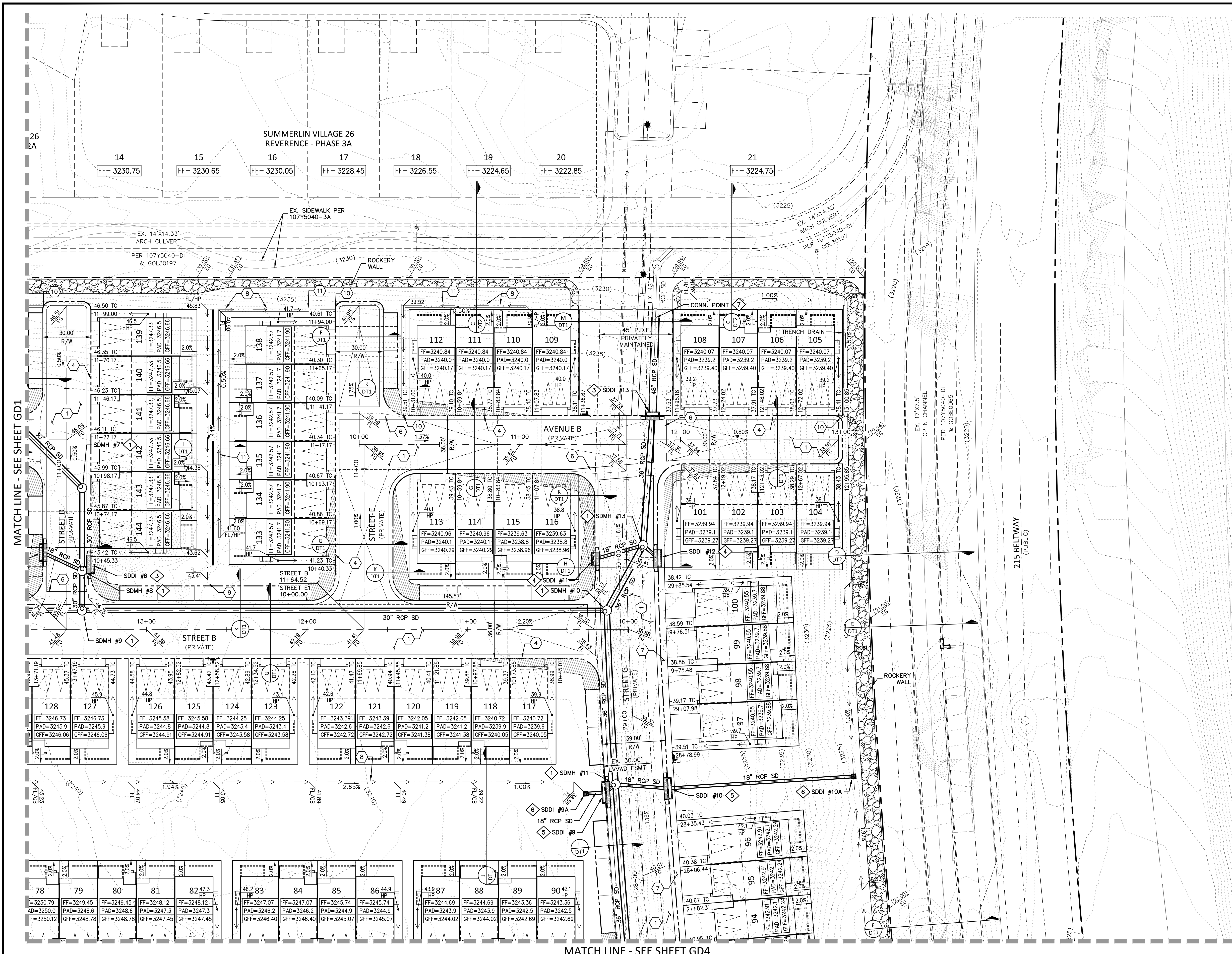
SUMMERLIN - VILLAGE 26 PARCEL L
REFERENCE MULTI-FAMILY

GRADING PLAN 1

GD1

4 OF 34 SHTS





- ROADWAY CONSTRUCTION NOTES**
1. INSTALL 2" AC OVER 4" TYPE II BASE
 2. CONSTRUCT 'L' TYPE CURB AND GUTTER PER USDOCA No. 216
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- STORM DRAIN CONSTRUCTION NOTES**
1. CONSTRUCT 60" TYPE III MANHOLE PER USDOCA DWG No. 401 & 406
 2. CONSTRUCT PRECAST MANHOLE PER USDOCA DWG No. 401 & 406
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 7. CONNECTION POINT. SEE DETAIL 6 ON SHEET D3

PUBLIC DRAINAGE NOTE

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

EXISTING UTILITY NOTE

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CAUTION TO CONTRACTOR

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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 112, PAGE 94 OF PARCEL MAPS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

BENCHMARK

CLARK COUNTY VERTICAL CONTROL POINT: SLV09 1456

SUMMERLIN VILLAGE 26 - REVERENCE PROJECT MODIFIED DATUM: 3227.64 FEET NAVD88 DATUM: 983.659 METERS (3227.22 FEET)

RIVET & PLATE IN HEAD WALL WEST OF CC215 +/-250' NORTH OF LAKE MEAD.

TO OBTAIN SUMMERLIN VILLAGE 26 - REVERENCE PROJECT MODIFIED DATUM ADD 0.42 FEET TO NAVD88 DATUM.

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 DATE 03/07/2022

ENGINEER

WESLEY T. PETTY

16369

STATE OF NEVADA

16369

DESIGN

PB

DRAWING

PB

CHECK

WF

PLOT DATE

03-07-22

PLOT TIME

11:06:53

PROJECT NO.

764-204-023

DESIGNER

PB

DRAWING

PB

CHECK

WF

PLOT DATE

03-07-22

PLOT TIME

11:06:53

1655 S. RAINBOW BLVD.

LAS VEGAS, NV 89146

T: 702.804.2000

F: 702.804.2299

gwenengineering.com

ENGINEERS & SURVEYORS

PULTE HOMES

SUMMERLIN - VILLAGE 26 PARCEL L

REVERENCE MULTI-FAMILY

GRADING PLAN 2

DRAWING

GD2

5 OF 34 SHTS

Call before you Dig

Avoid cutting underground utility lines. It's costly.

Call 811

OR

1-800-642-2444

FAST

Call before you UnderGround

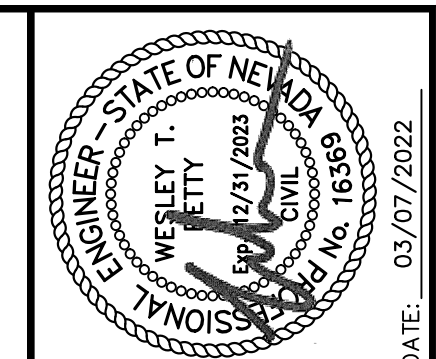
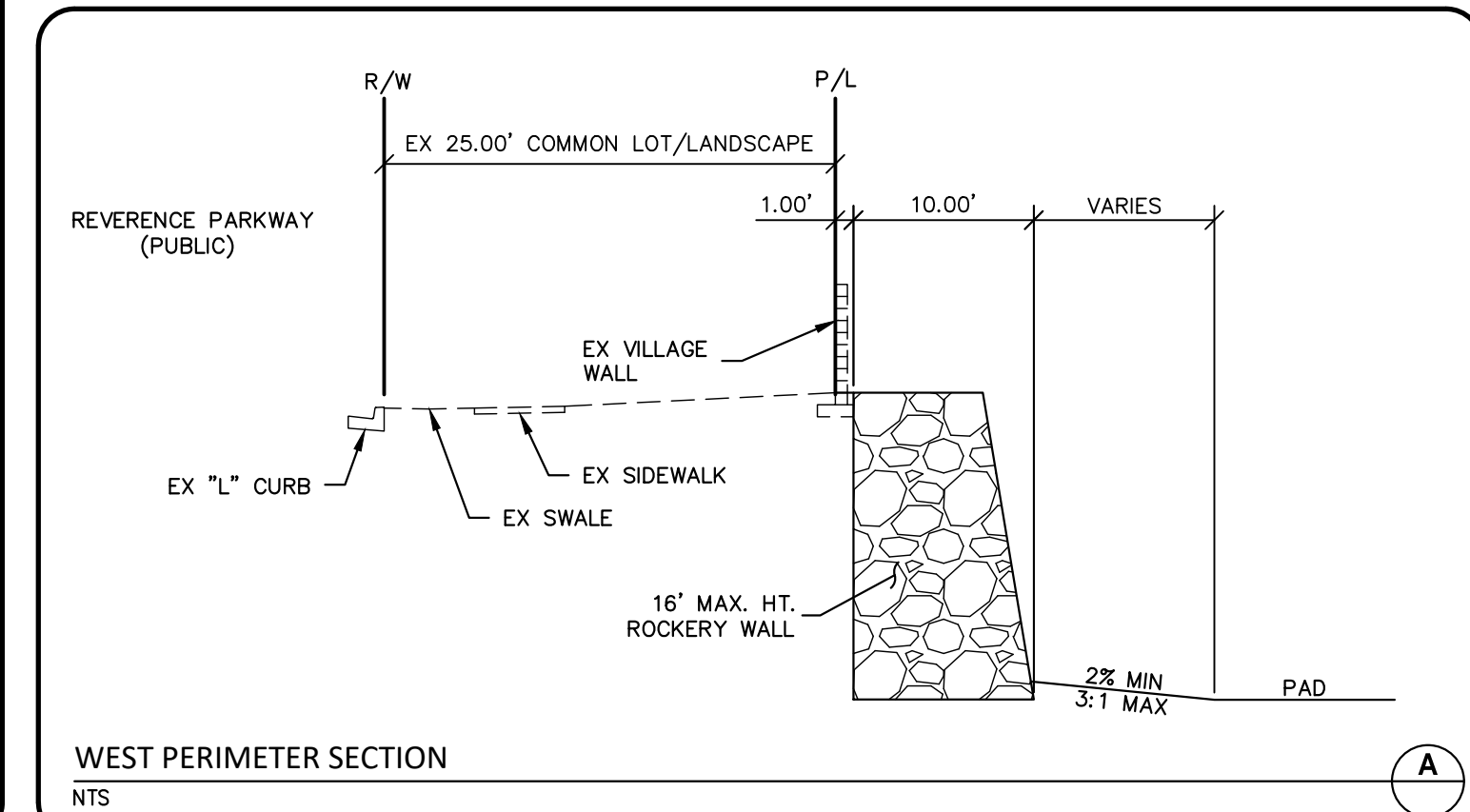
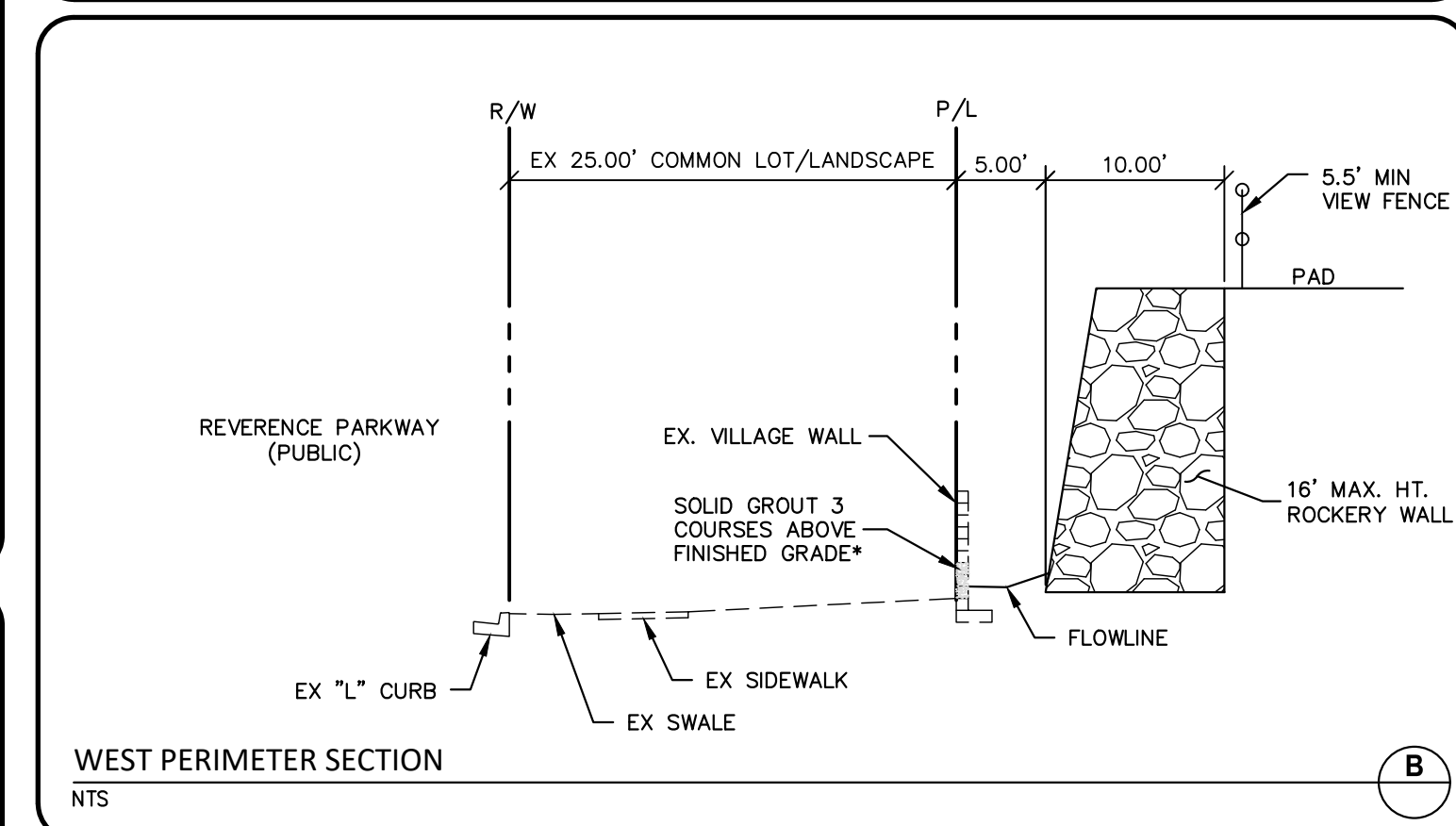
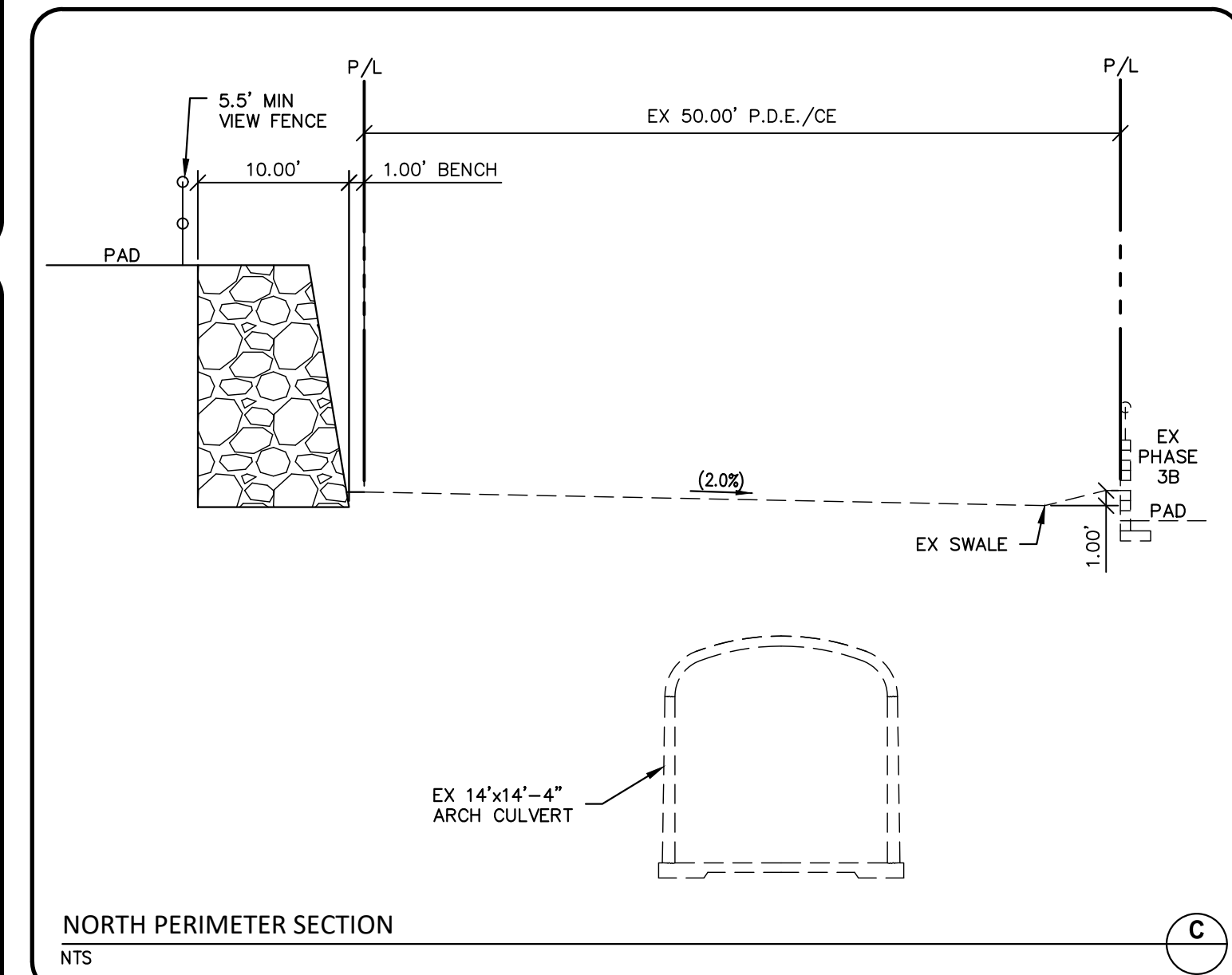
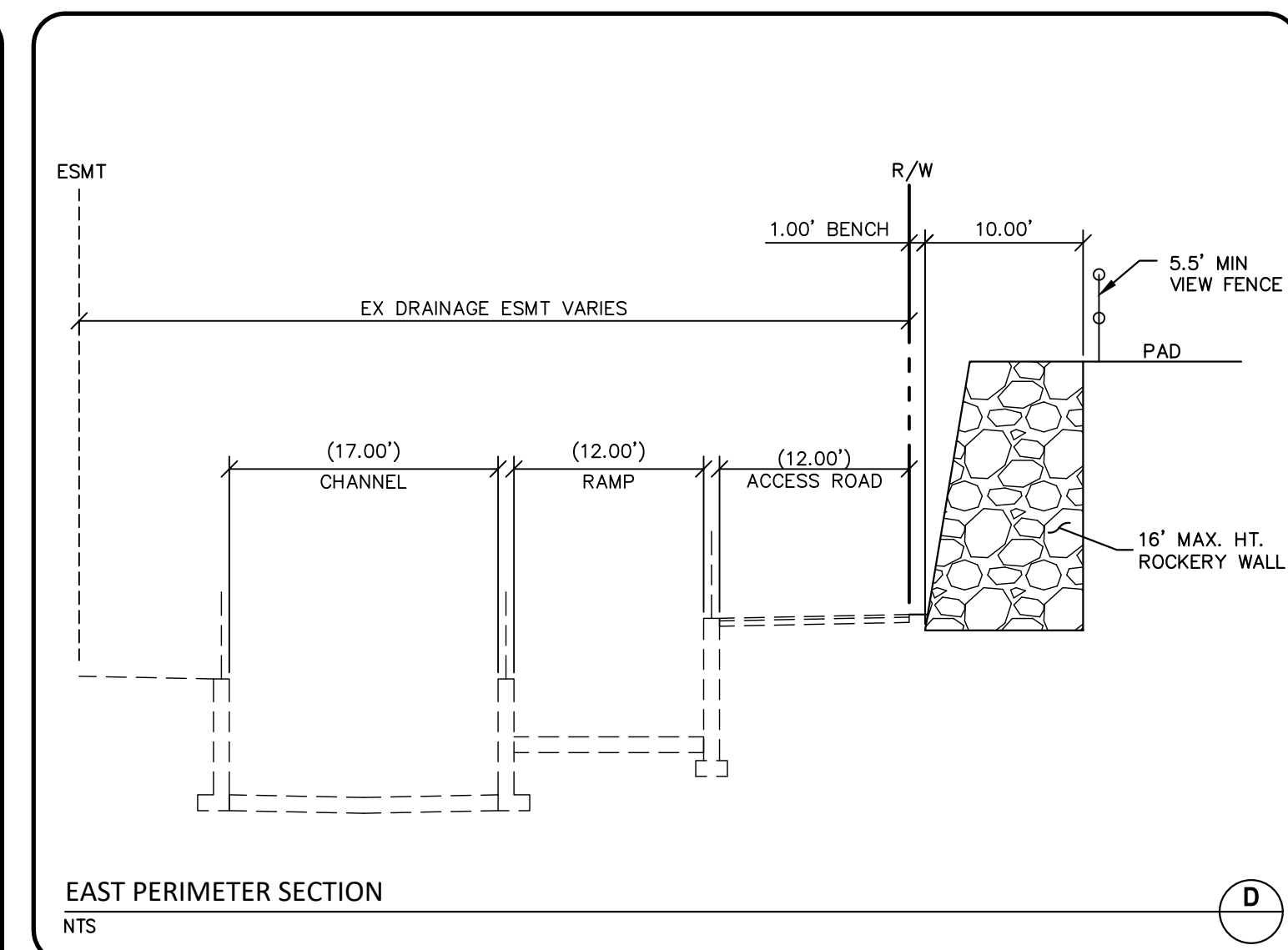
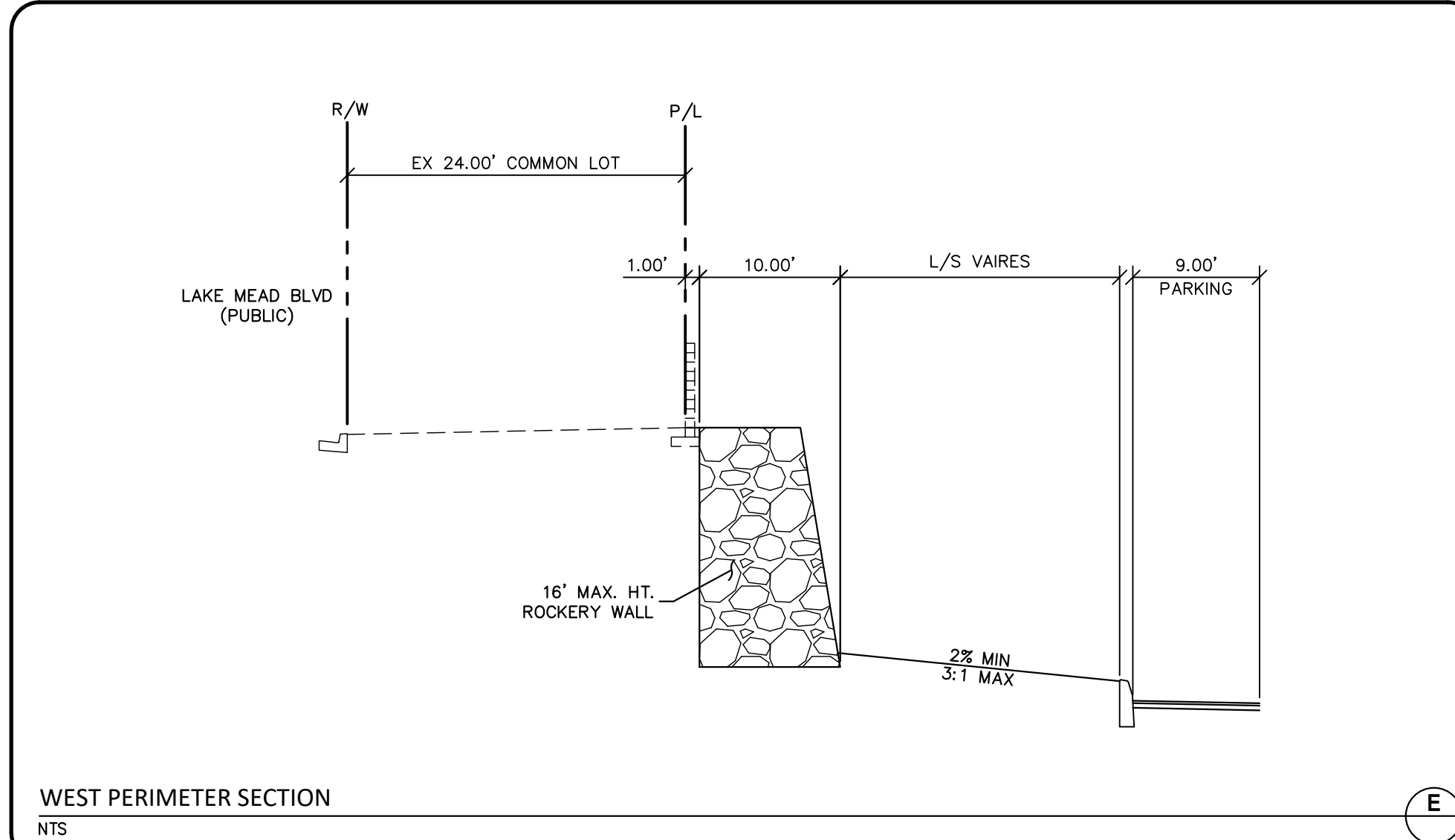
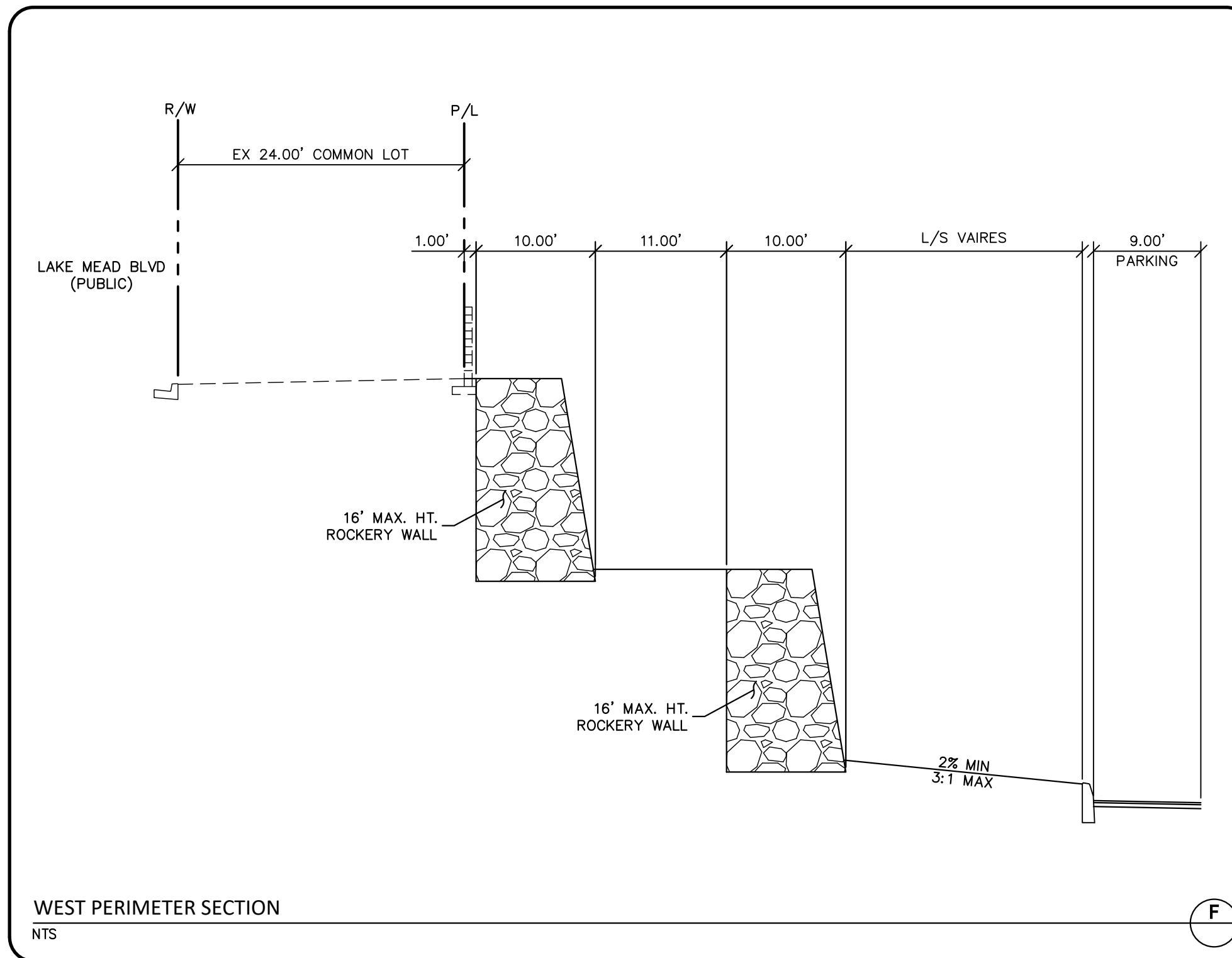
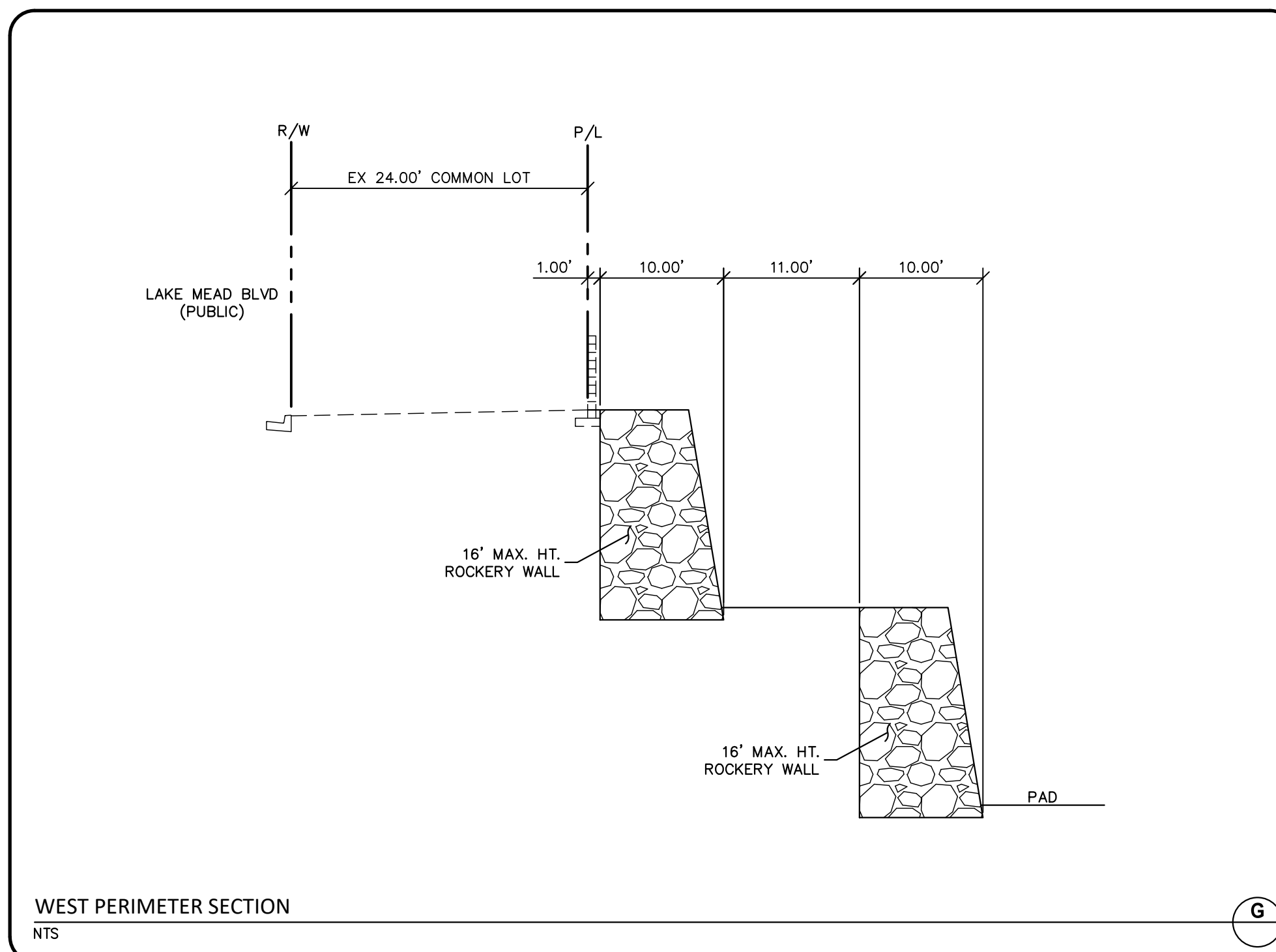
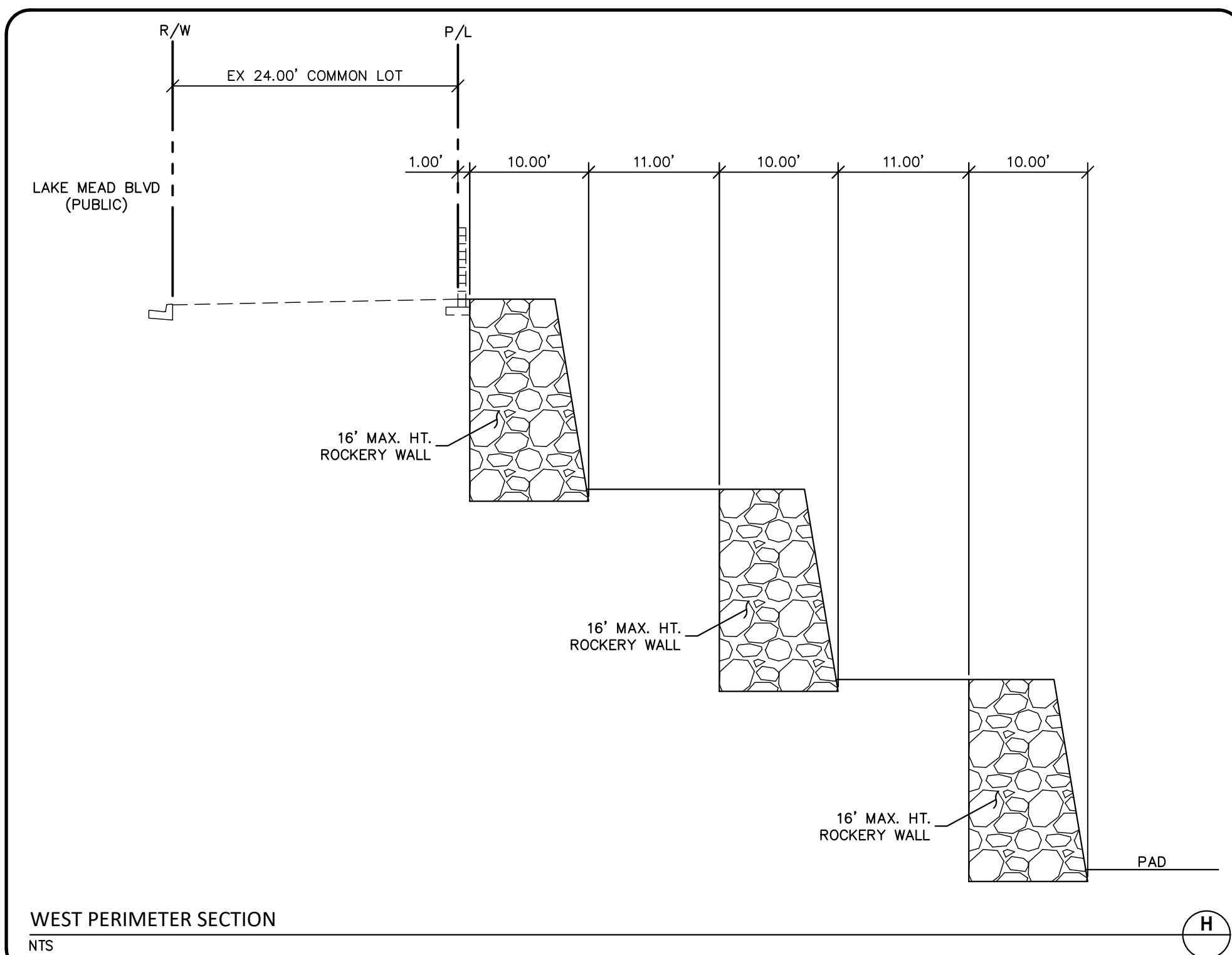
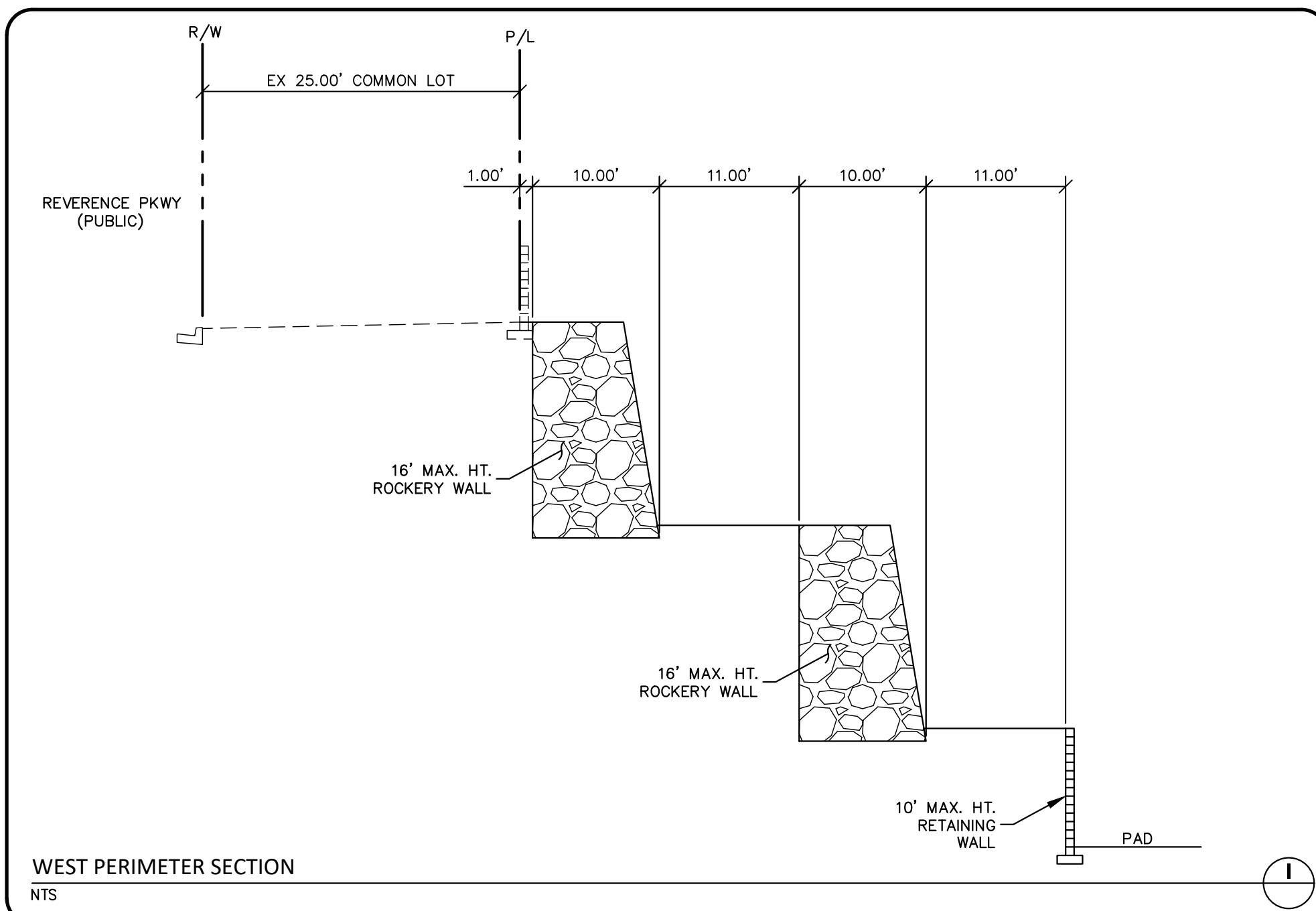
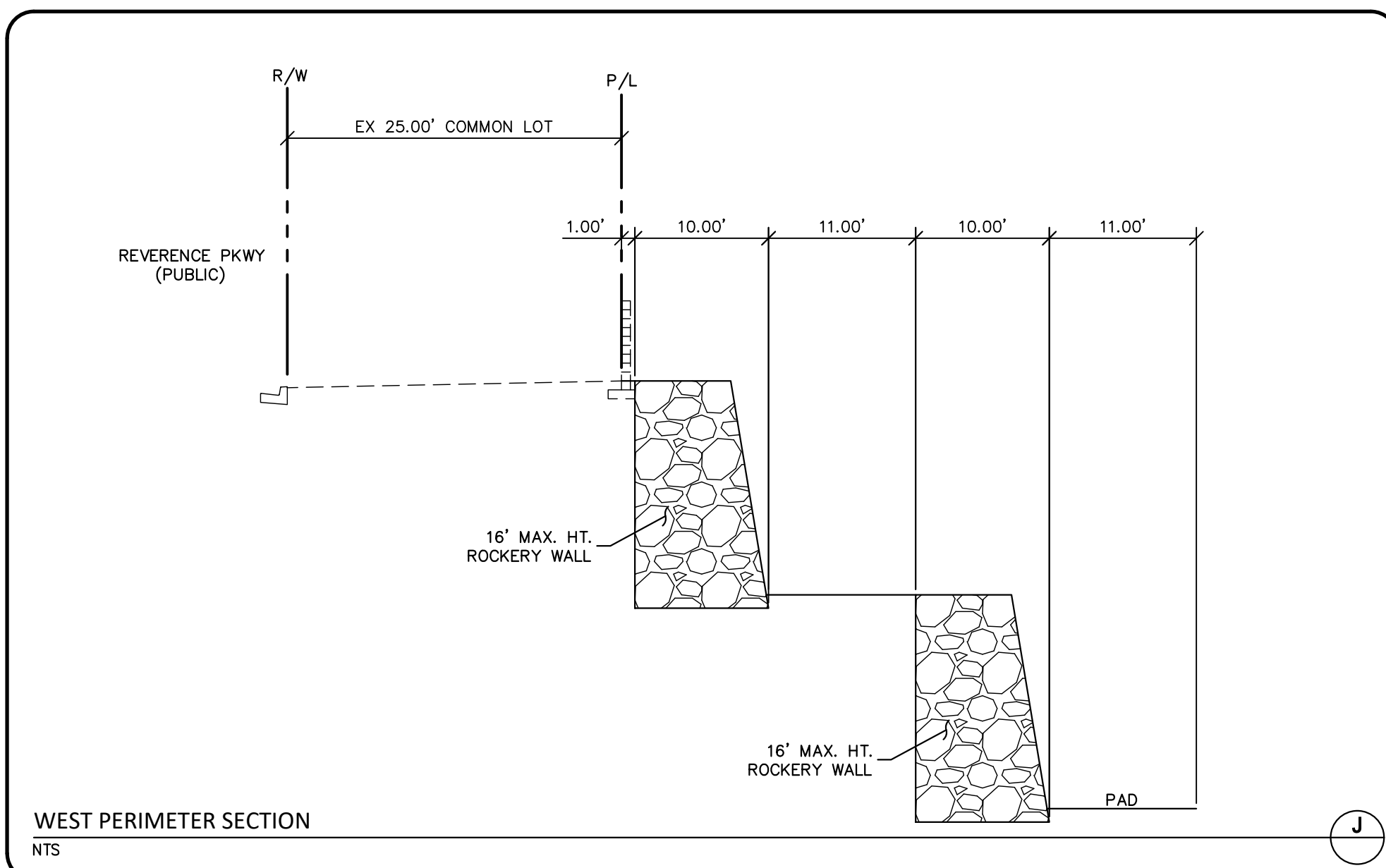
1-702-432-6300

FREIGHTWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY

CALL BEFORE YOU DO OVERHEAD

1-702-227-2929

[illegible]

PROJECT NO.	
764-204-023	
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DRAWN:	PB
CHECK:	WP
PLOT DATE:	03-07-22
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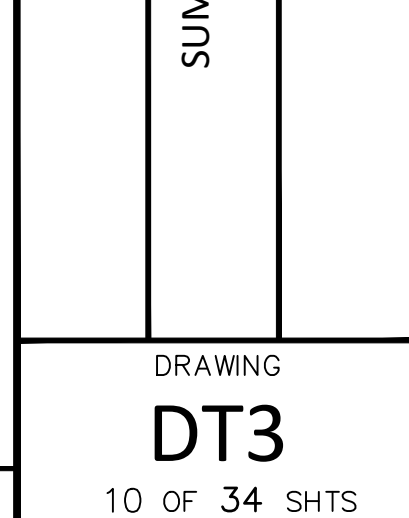
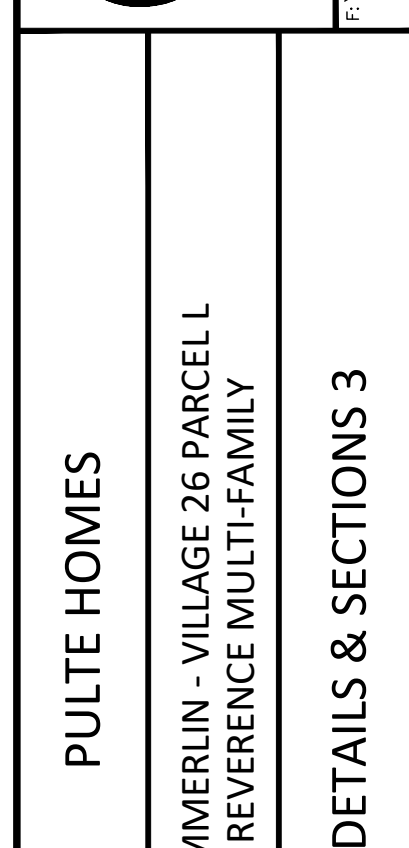
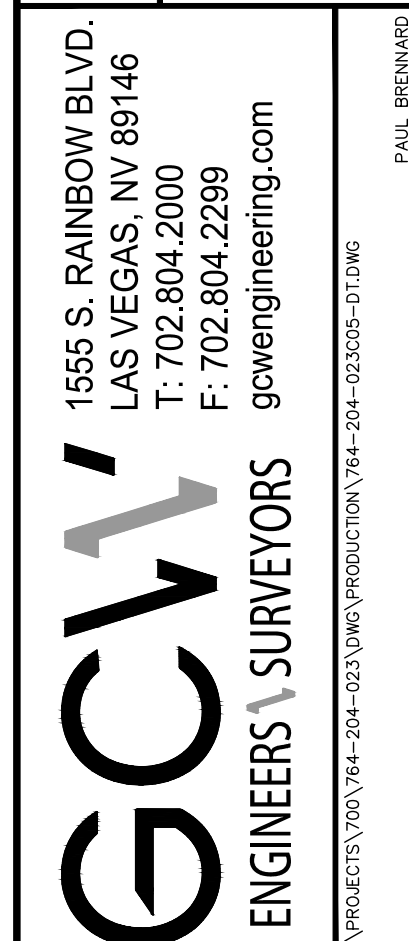
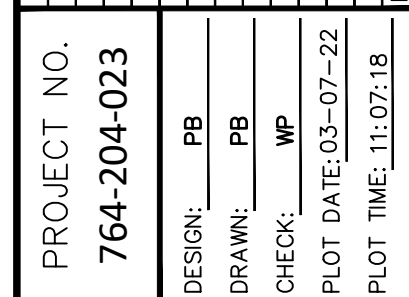
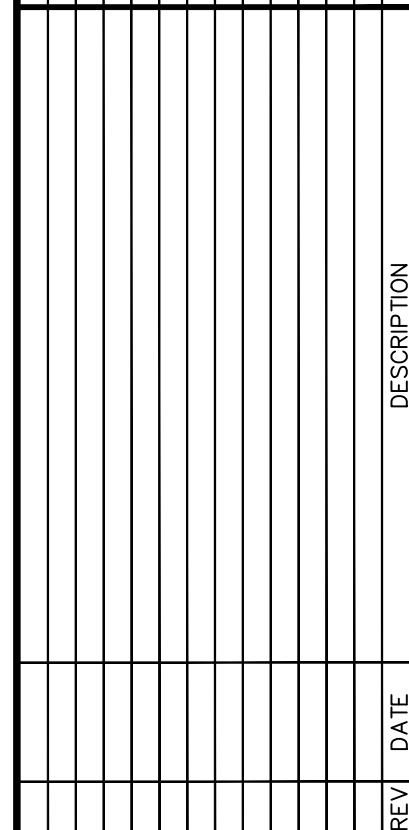
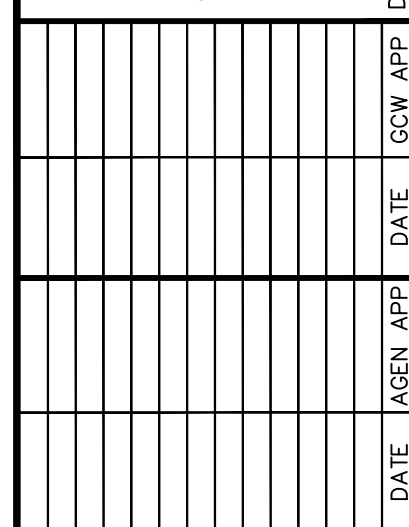
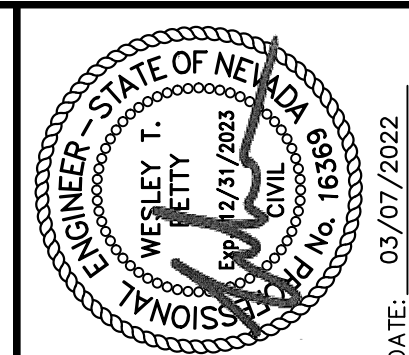
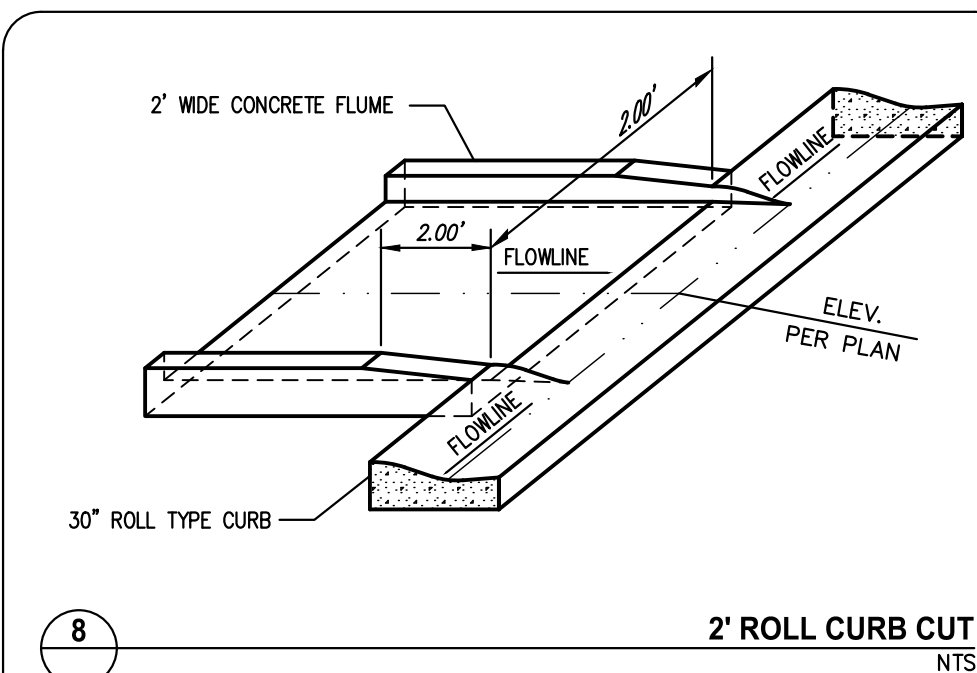
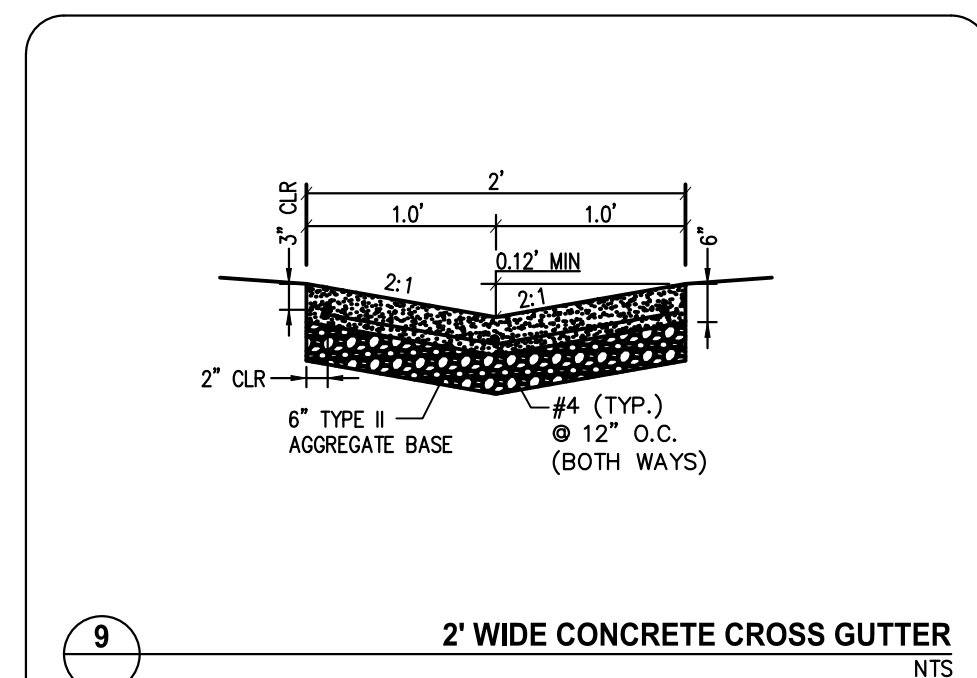
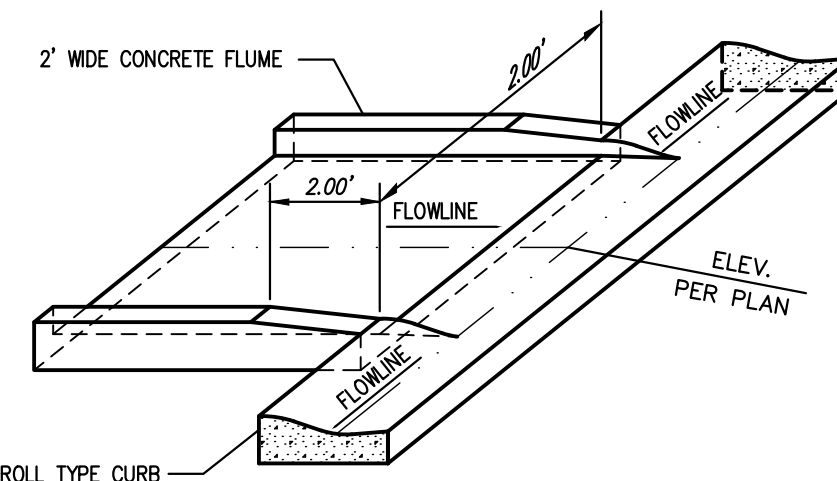
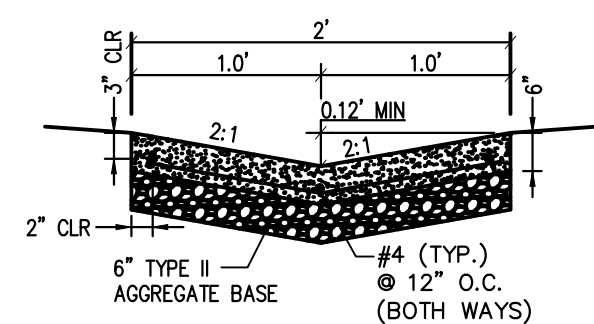
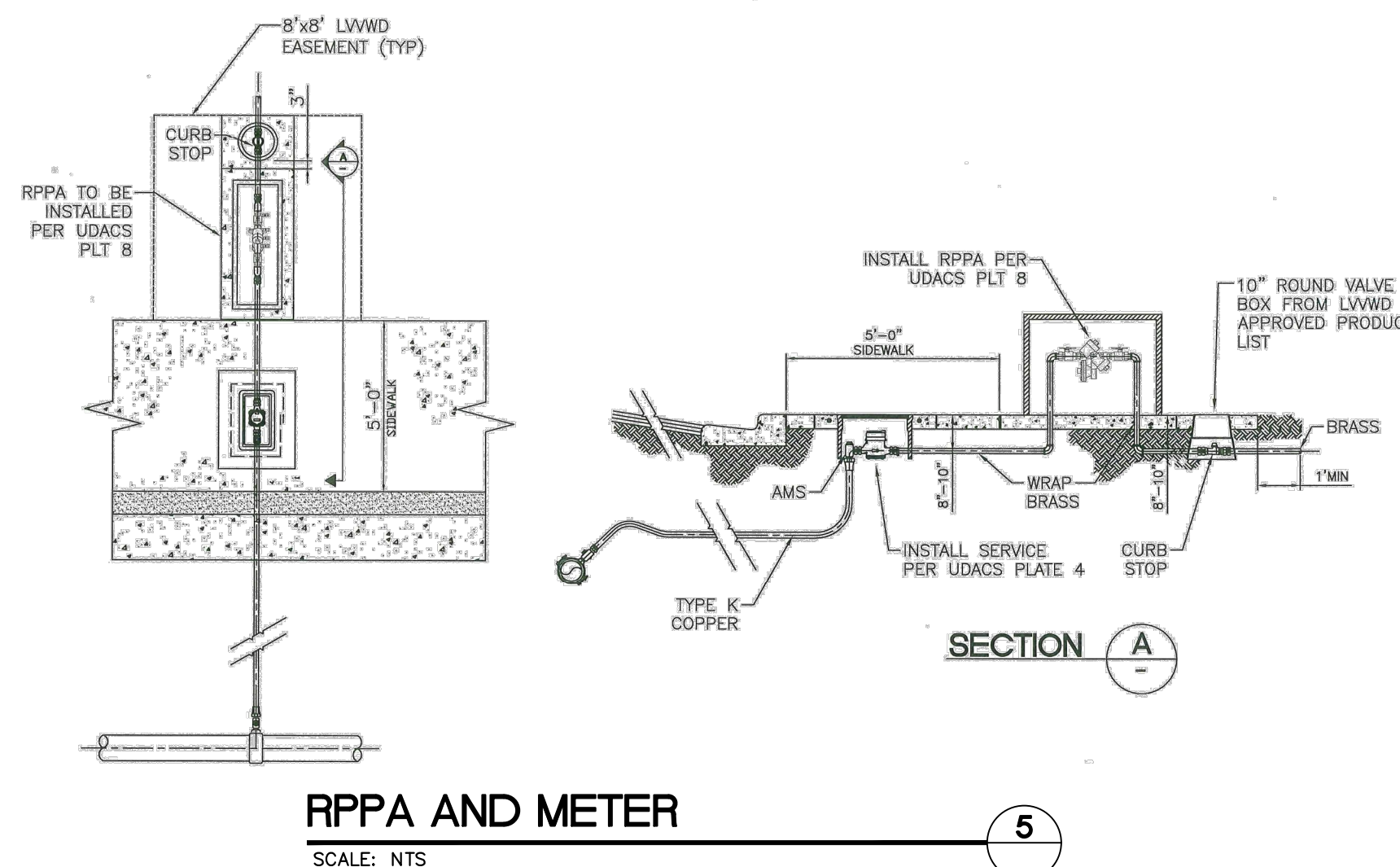
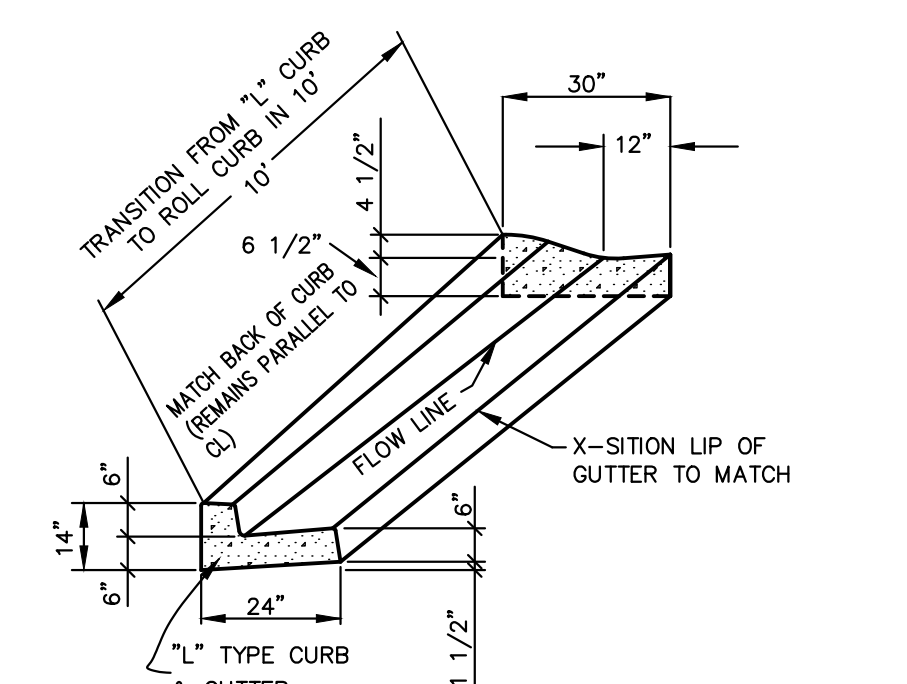
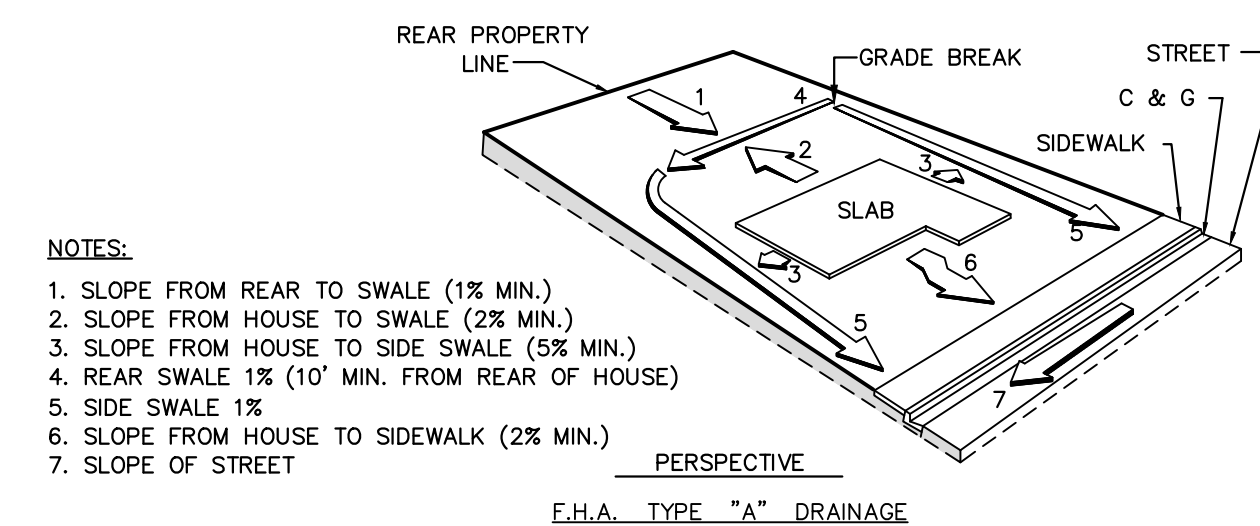
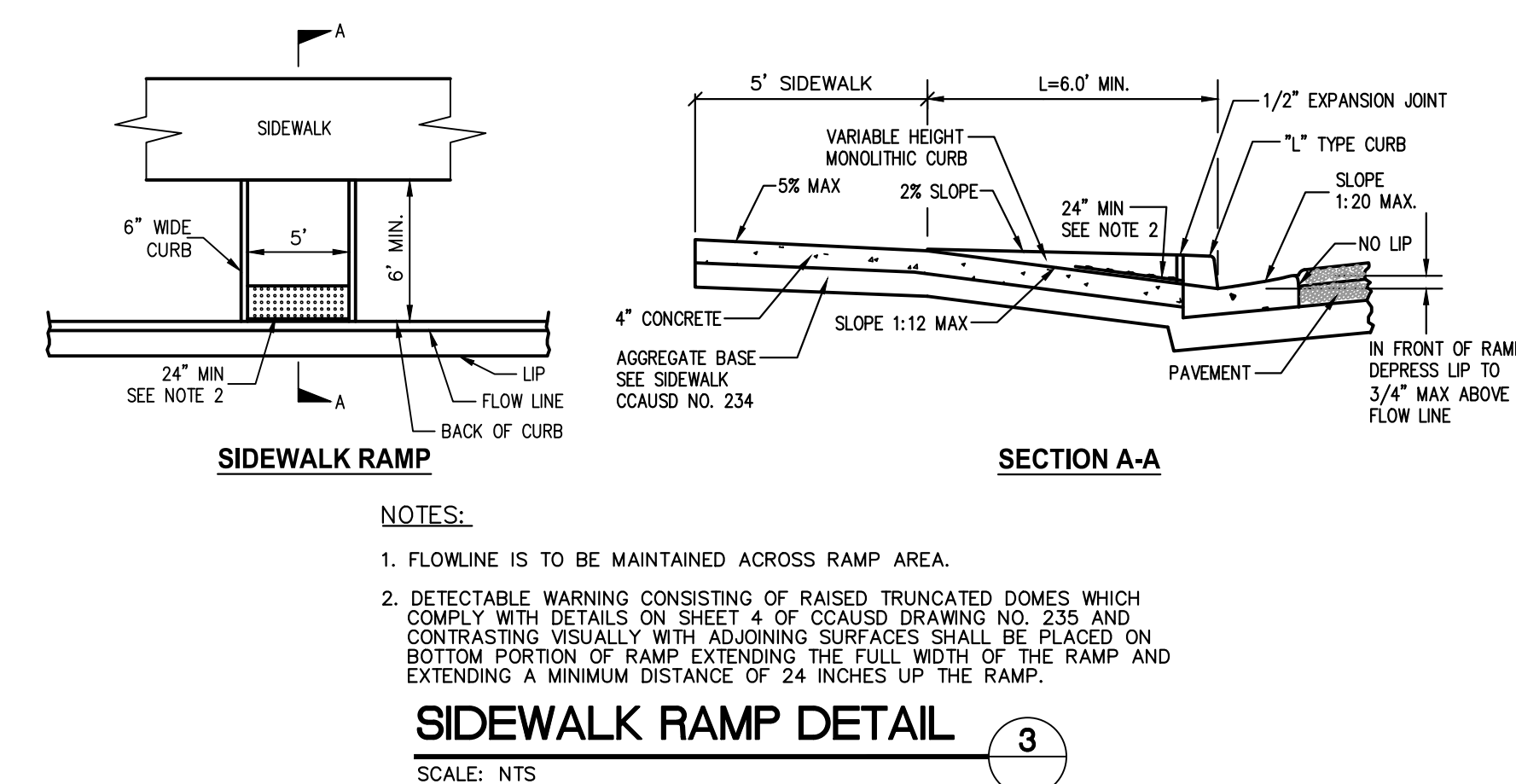
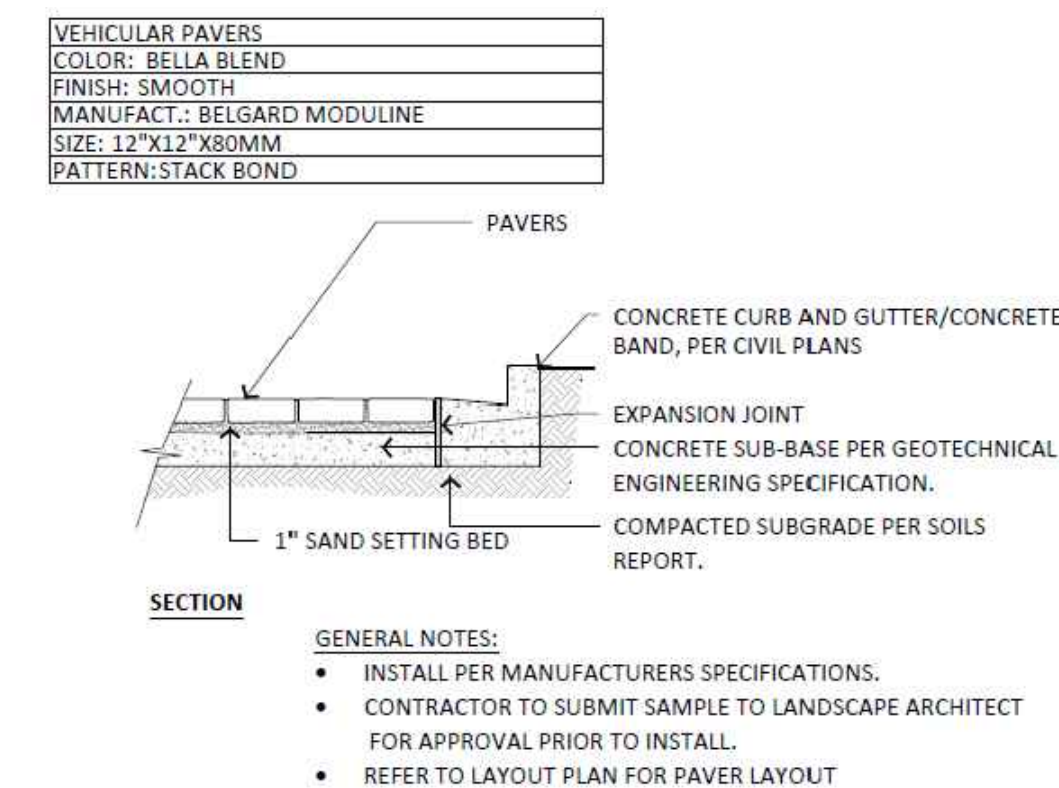
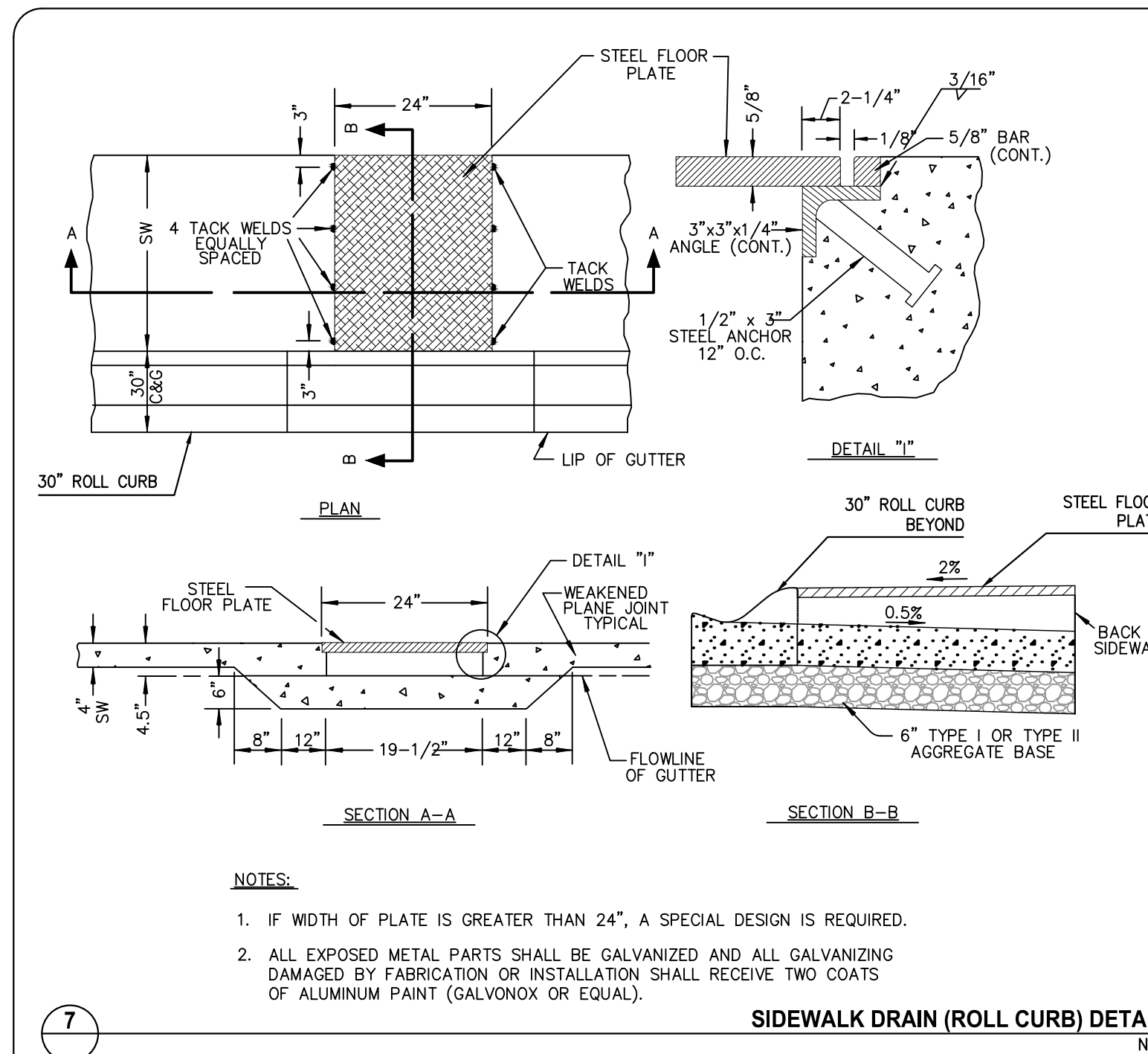
GCV
ENGINEERS \ SURVEYORS

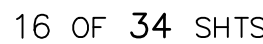
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcvengineering.com

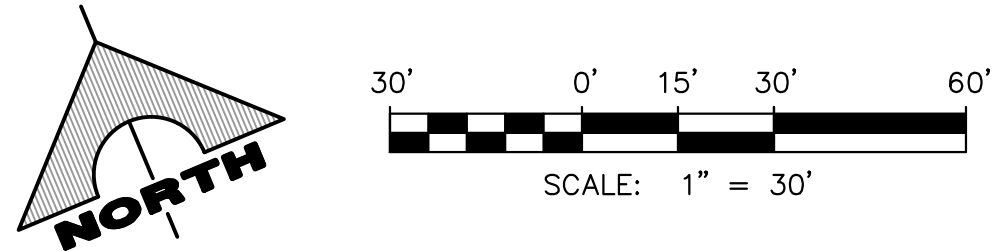
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PAUL BERNARD

PULTE HOMES SUMMERLIN - VILLAGE 26 PARCEL L REVERENCE MULTI-FAMILY DETAILS & SECTIONS 2	DRAWING DT2 9 OF 34 SHTS





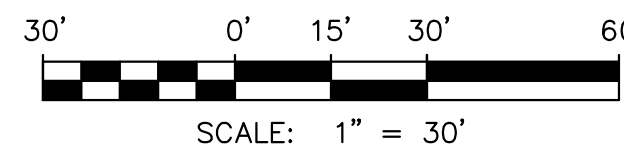
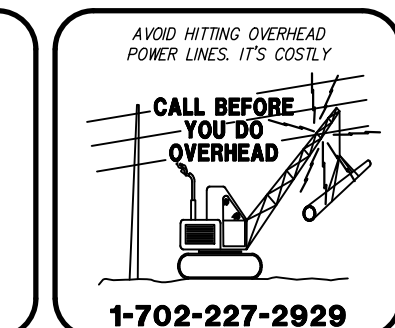
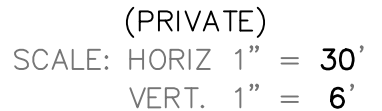


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|--|
| <u>PUBLIC DRAINAGE NOTE</u> |
| ALL PRIVATE STREETS ARE P.U.E., PUBLIC SEWER EASEMENTS AND PUBLIC DRAINAGE EASEMENTS TO BE PRIVATELY MAINTAINED BY HOA. |
| <u>EXISTING UTILITY NOTE</u> |
| EXISTING UTILITIES SHOWN HEREIN ARE APPROXIMATE ONLY AND MAY NOT SHOW ALL EXISTING FACILITIES WITHIN THE PROJECT AREA. CONTRACTOR MUST FIELD VERIFY AND POT-HOLE EXISTING UTILITIES WITHIN THE PROJECT AREA PRIOR TO BEGINNING CONSTRUCTION. ALL EXISTING UTILITIES MUST BE PROTECTED IN PLACE DURING CONSTRUCTION UNLESS OTHERWISE NOTED ON DRAWINGS. CONTACT UTILITY COMPANIES AT LEAST 24 HOURS PRIOR TO INTERRUPTION OF SERVICE. |
| <u>CAUTION TO CONTRACTOR</u> |
| THE CONTRACTOR SHALL BE RESPONSIBLE TO INVESTIGATE AND VERIFY THE ACTUAL LOCATION AND DEPTH OF ALL EXISTING UNDERGROUND FACILITIES AT LEAST 48 HOURS IN ADVANCE OF THE PERFORMANCE OF ANY WORK. |
| <u>BASIS OF BEARING</u> |
| 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 112, PAGE 94 OF PARCEL MAPS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE. |
| <u>BENCHMARK</u> |
| CLARK COUNTY VERTICAL CONTROL POINT: 5LV09 1456

SUMMERLIN VILLAGE 26 – REVERENCE PROJECT MODIFIED DATUM: 3227.64 FEET NAVD88 DATUM: 983.659 METERS (3227.22 FEET)

RIVET & PLATE IN HEAD WALL WEST OF CC215 +/-250' NORTH OF LAKE MEAD.

TO OBTAIN SUMMERLIN VILLAGE 26 – REVERENCE PROJECT MODIFIED DATUM ADD 0.42 FEET TO NAVD88 DATUM. |
| <u>DRAINAGE CERTIFICATION</u> |
| 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. |
| 03/07/2022 |
| DATE |
| WESLEY T. PETTY, P.E. 16369 |
| APPROVED FOR CONSTRUCTION |



1	CONSTRUCT 60" TYPE III MANHOLE PER USDOCA DWG No. 401 & 406
2	CONSTRUCT PRECAST MANHOLE PER USDOCA DWG No. 401 & 406
3	CONSTRUCT 7.5" TYPE "DM2" DROP INLET PER USDOCA DWG No. 412.1
4	CONSTRUCT 10.0" TYPE "DM2" DROP INLET PER USDOCA DWG No. 412.1
5	CONSTRUCT 12.5" TYPE "DM2" DROP INLET PER USDOCA DWG No. 412.1
6	CONSTRUCT 24"x24" GRATE DROP INLET PER USDOCA DWG No. 412.1
7	CONNECTION POINT. SEE DETAIL 6 ON SHEET DT3

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CLARK COUNTY VERTICAL CONTROL POINT: 5LV09 1456

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NAVD88 DATUM: 983.659 METERS (3227.22 FEET)

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0.42 FEET TO NAVD88 DATUM.

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.

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES.

CLV#

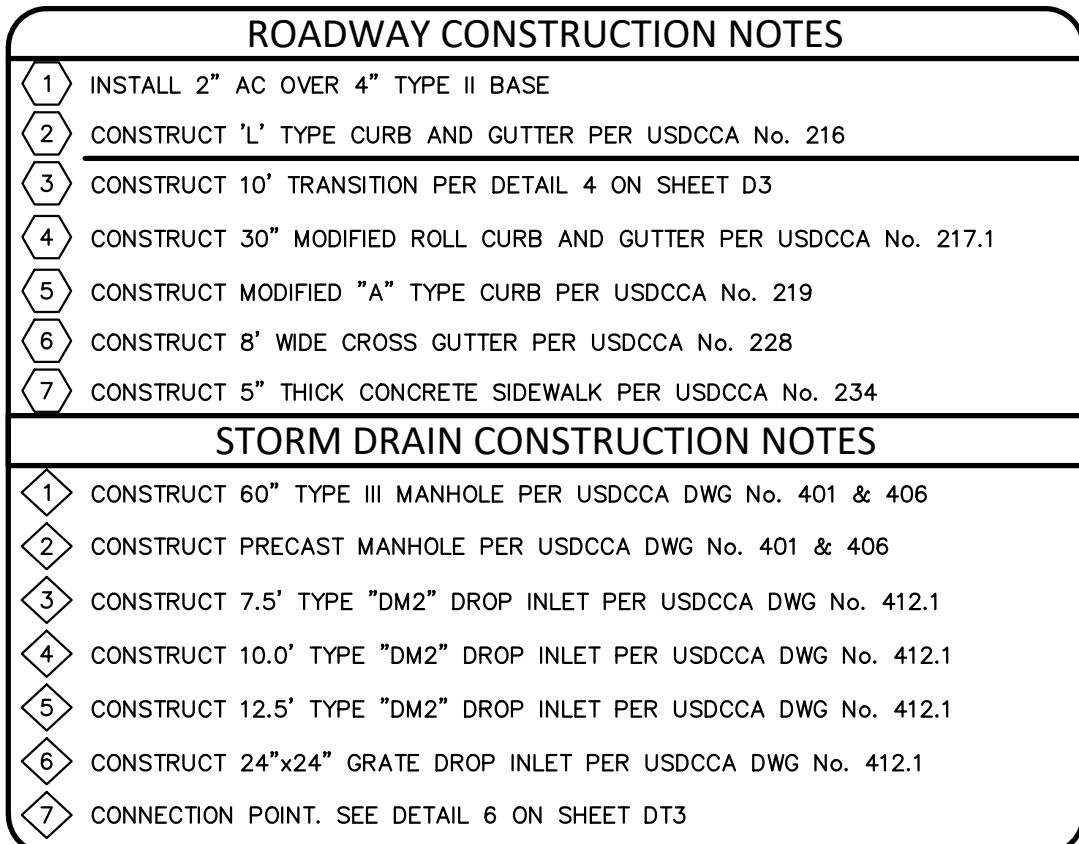
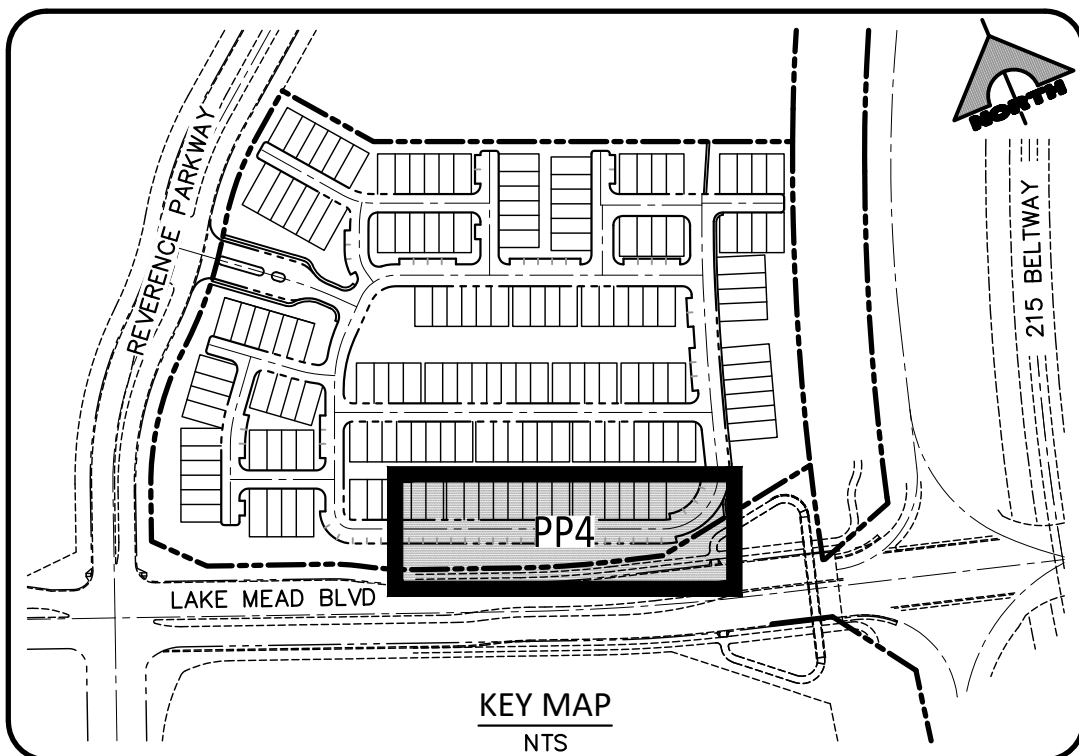
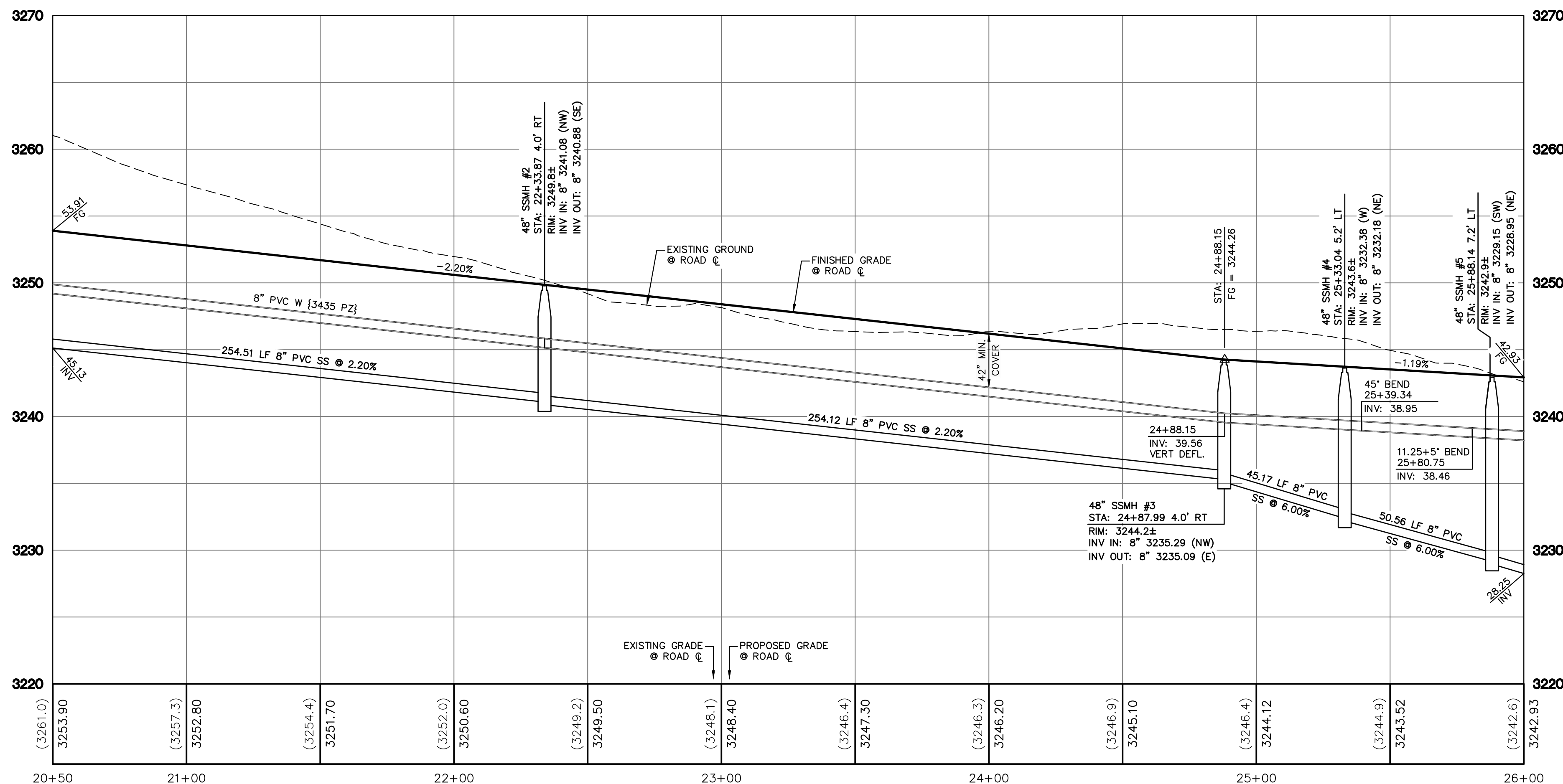


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PLAN & PROFILE 3

PP3

18 OF 34 SHTS

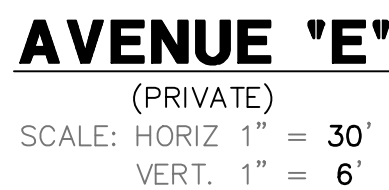


LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

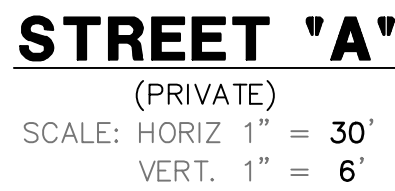
PROJECT NO. XXXXXX FIRST APPROVAL DATE: 01/01/2020

LVVWD APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL

MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 30 GPM



- ## **PUBLIC DRAINAGE NOTE**
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- ## **CAUTION TO CONTRACTOR**
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- ## **BASIS OF BEARING**
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- ## **BENCHMARK**
- CLARK COUNTY VERTICAL CONTROL POINT: 5LV09 1456
- SUMMERLIN VILLAGE 26 - REVERENCE PROJECT MODIFIED DATUM: 3227.64 FEET
NAVDO88 DATUM: 983.659 METERS (3227.22 FEET)
- RIVET & PLATE IN HEAD WALL WEST OF CC215 + /-250' NORTH OF LAKE MEAD.
- TO OBTAIN SUMMERLIN VILLAGE 26 - REVERENCE PROJECT MODIFIED DATUM ADD 0.42 FEET TO NAVD88 DATUM.
- ## **DRAINAGE CERTIFICATION**
- I CERTIFY THAT THE DRAINAGE 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
- 03/07/2022
- DATE
- ## **APPROVED FOR CONSTRUCTION**

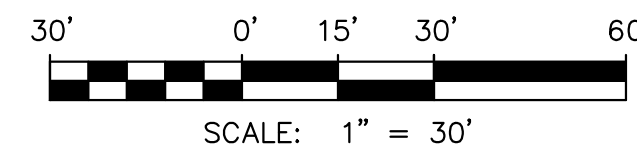
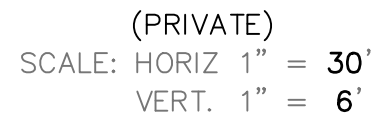
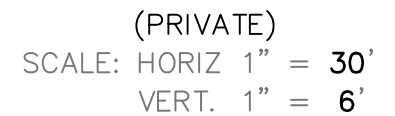


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|---|
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| <u>BENCHMARK</u> |
| CLARK COUNTY VERTICAL CONTROL POINT: 5LV09 1456

SUMMERLIN VILLAGE 26 ~ REVERENCE PROJECT MODIFIED DATUM: 3227.64 FEET NAVD88 DATUM: 983.659 METERS (3227.22 FEET)

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| 03/07/2022 |
| DATE |
| WESLEY T. PETTY, P.E. 16369 |
| APPROVED FOR CONSTRUCTION |



1	CONSTRUCT 60" TYPE III MANHOLE PER USDDCA DWG No. 401 & 406
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APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICE

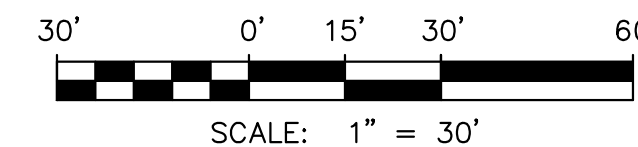
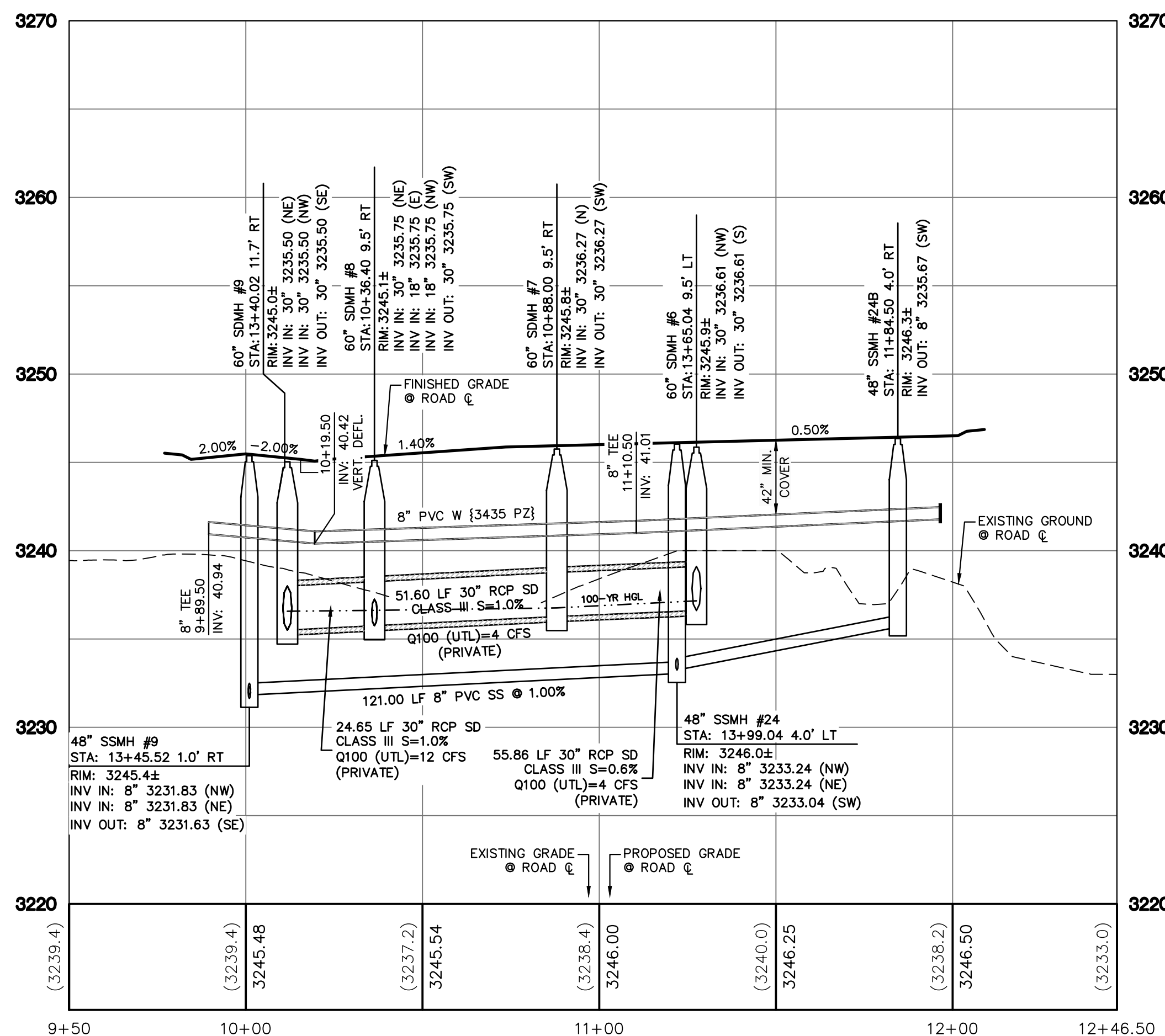
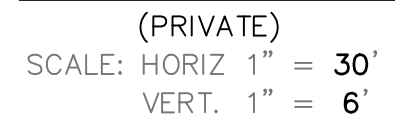
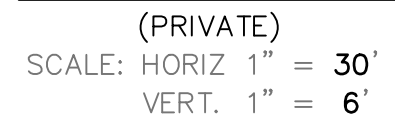
PROJECT NO. XXXXXX FIRST APPROVAL DATE: 01/01/20

LVVWD APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL

MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 30 GPM

CLV#:

[illegible]



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CLARK COUNTY VERTICAL CONTROL POINT: SLV09 1456

SUMMERLIN VILLAGE 26 - REVERENCE PROJECT MODIFIED DATUM: 3227.64 FEET
NAVDB8 DATUM: 983.659 METERS (3227.22 FEET)

RIVET & PLATE IN HEAD WALL WEST OF CC215 +/ -250' NORTH OF LAKE MEAD

TO OBTAIN SUMMERLIN VILLAGE 26 - REVERENCE PROJECT MODIFIED DATUM ADD
0.42 FEET TO NAVDB8 DATUM.

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

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT NO. XXXXXX FIRST APPROVAL DATE: 01/01/2021

LVVWD APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL

MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 30 GPM

L#

CLV#:	
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PROJECT NO.
764-204-023

ESIGN: PB

RAWN: PB

CHECK: WP
PLOT DATE: 03-07-22
PLOT TIME: 11:10:06

PAUL BRENNARD

1555 S. RAINBOW BLVD.
LAS VEGAS NV 89146

T: 702.804.2000
F: 702.804.2299
acwengineering.com

04-023C06-PP.DWG

PAUL BRENNARD

GCLV
ENGINEERS SURVEYORS

PULTE HOMES

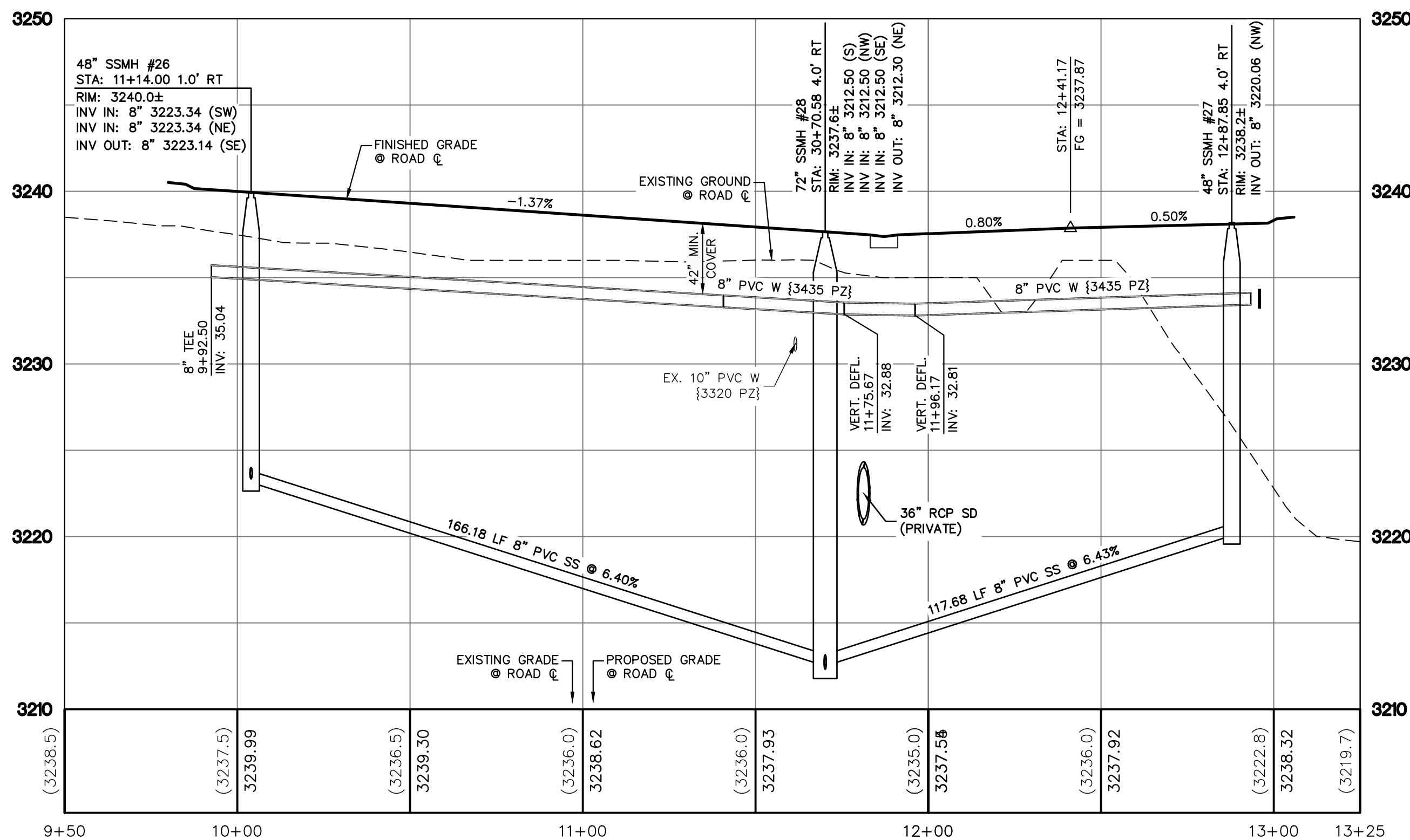
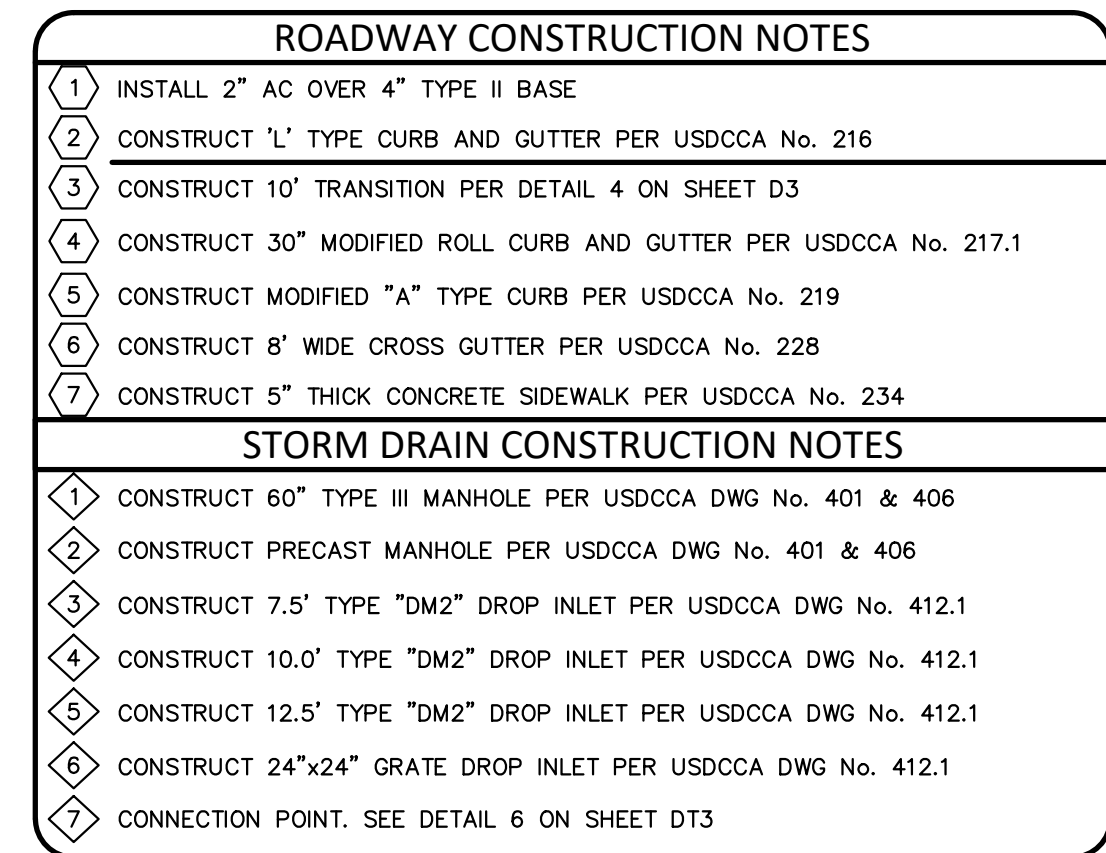
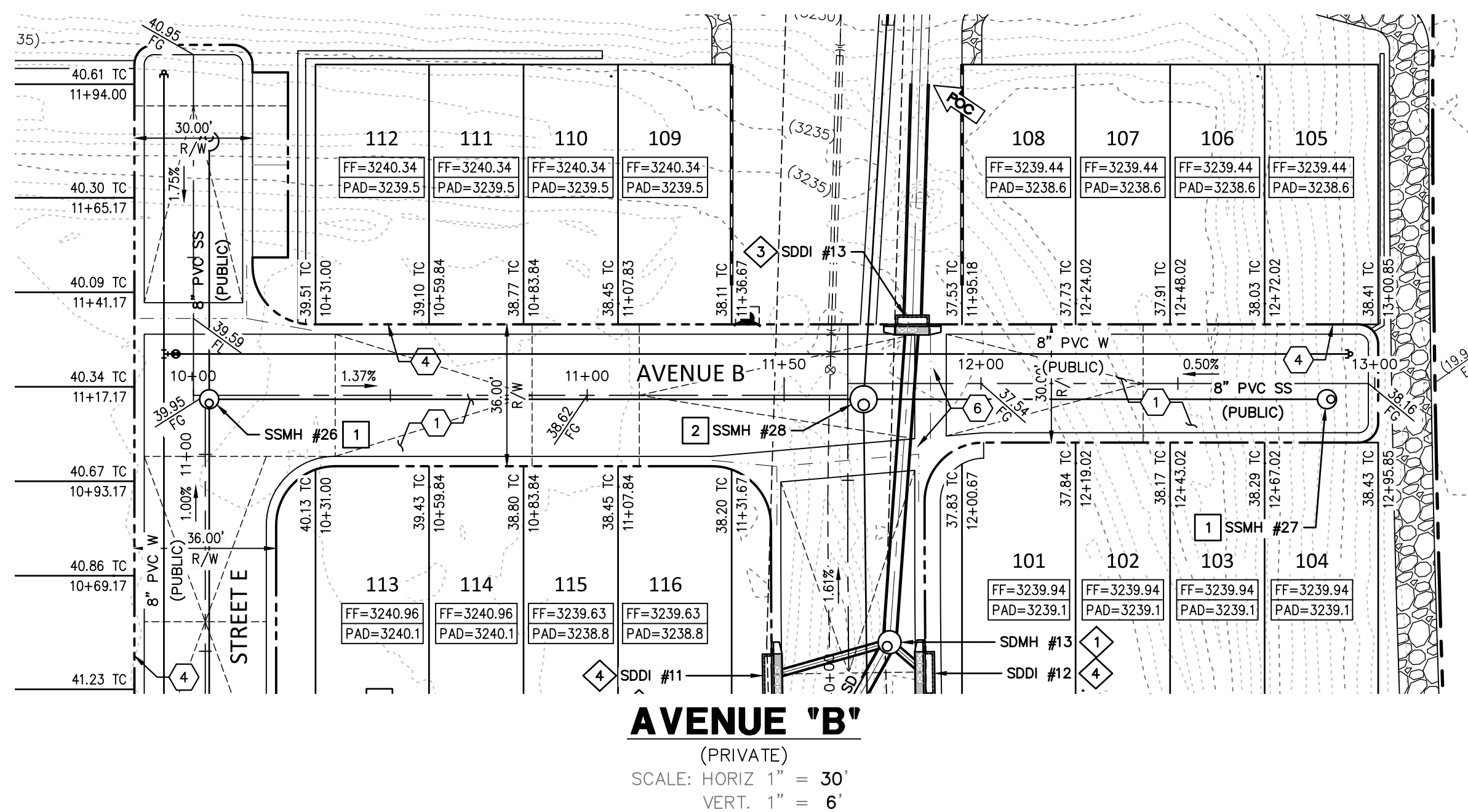
PLAN & PROFILE 9

DRAWING

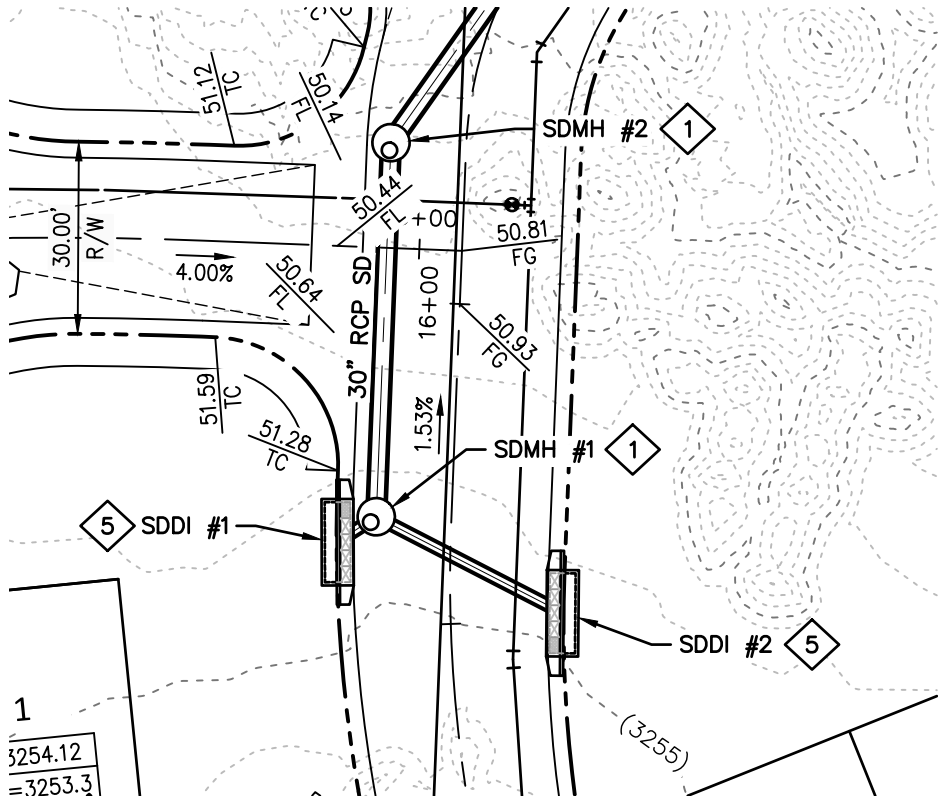
PPC

24 OF 34 SHTS



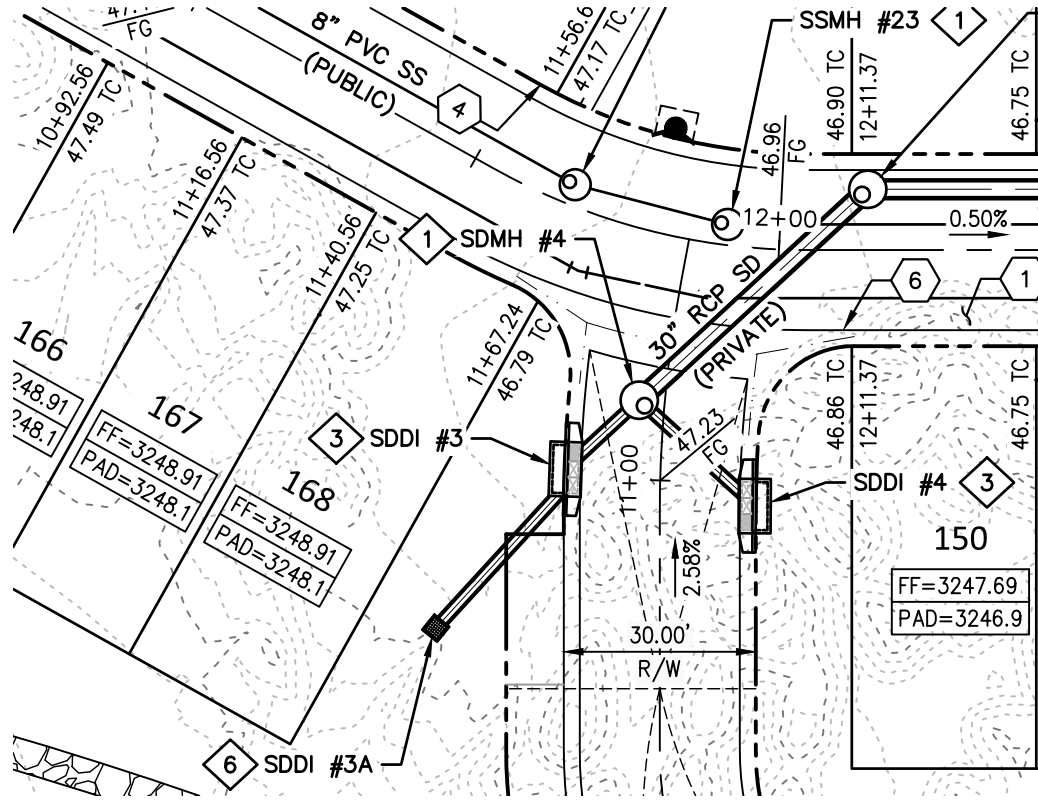


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DRAINAGE CERTIFICATION I CERTIFY THAT THE DRAINAGE PLANS ARE IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY ON FILE AT THE CITY OF LAS VEGAS FOR THIS PROJECT. 03/07/2022 WESLEY T. PETTY, P.E. 136369 DATE
APPROVED FOR CONSTRUCTION



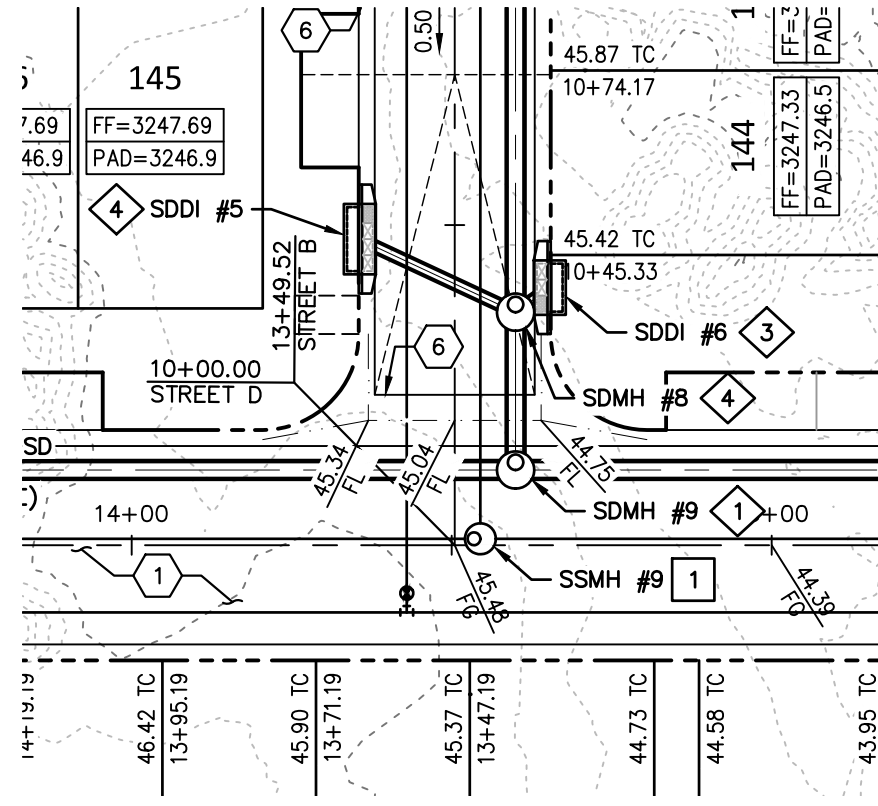
SD LAT1

(PRIVATE)
SCALE: HORIZ 1" = 30'
VERT. 1" = 6'



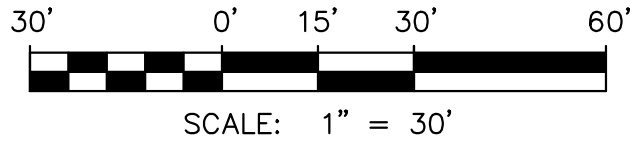
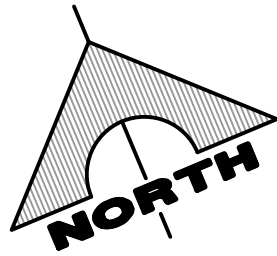
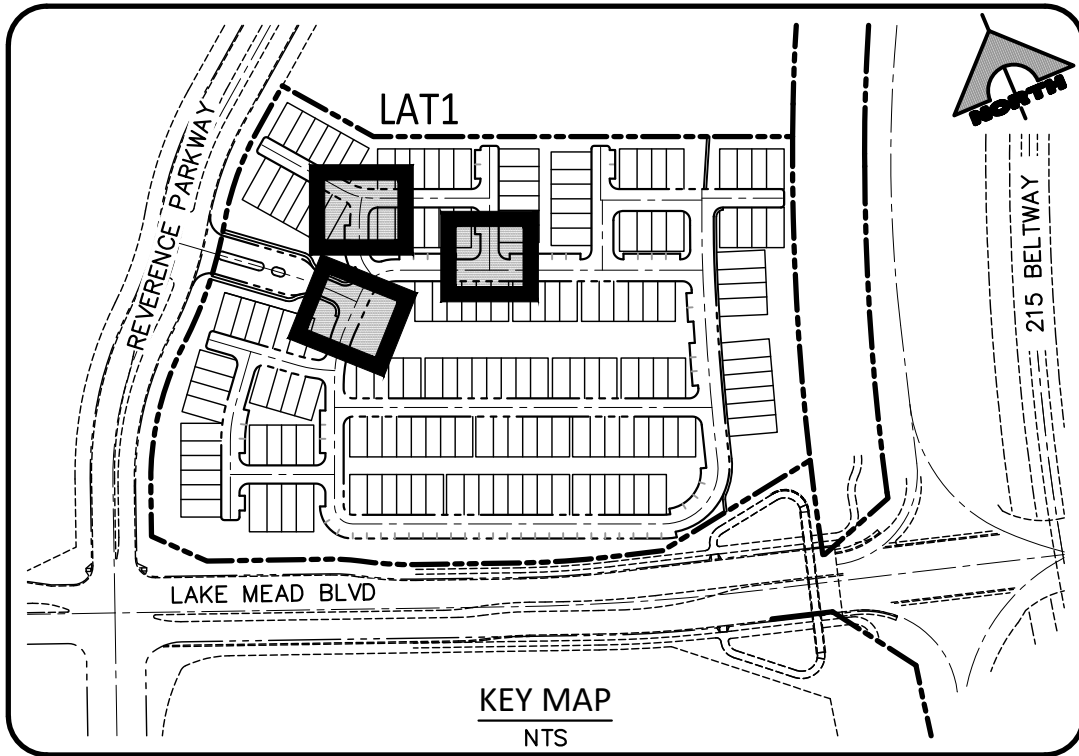
SD LAT2

(PRIVATE)
SCALE: HORIZ 1" = 30'
VERT. 1" = 6'



SD LAT3

(PRIVATE)
SCALE: HORIZ 1" = 30'
VERT. 1" = 6'



ROADWAY CONSTRUCTION NOTES

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

STORM DRAIN CONSTRUCTION NOTES

1. CONSTRUCT 60" TYPE III MANHOLE PER USDOCA DWG No. 401 & 406
2. CONSTRUCT PRECAST MANHOLE PER USDOCA DWG No. 401 & 406
3. CONSTRUCT 7.5" TYPE "DM2" DROP INLET PER USDOCA DWG No. 412.1
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BENCHMARK

CLARK COUNTY VERTICAL CONTROL POINT: SLV09 1456
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WESLEY T. PETTY, P.E. 16369

DATE

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT NO. XXXXXX FIRST APPROVAL DATE: 01/01/2020
LWWD APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 30 GPM

L#:

CLV#:

PROJECT NO.
764-204-023

DESIGN: PB
DRAWING: PB
CHECK: WF

PLOT DATE: 03-07-22
PLOT TIME: 11:10:41

1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146

T: 702.804.2000
F: 702.804.2299

gwenengineering.com

GCV
ENGINEERS & SURVEYORS

PULTE HOMES

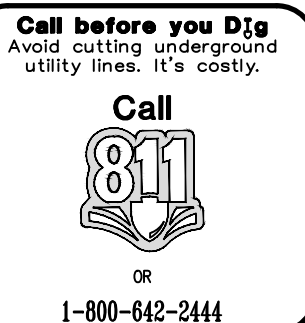
SUMMERLIN - VILLAGE 26 PARCEL L
REVERENCE MULTI-FAMILY

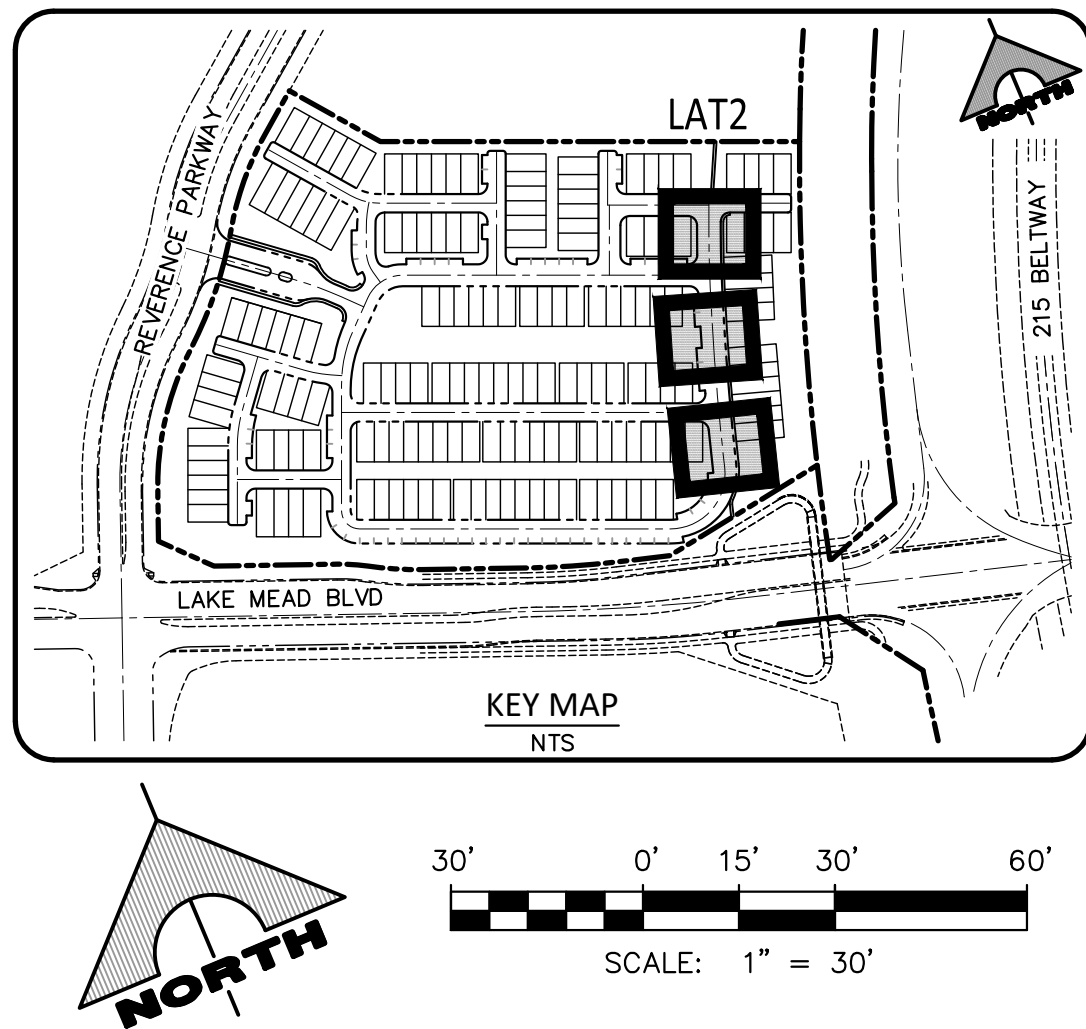
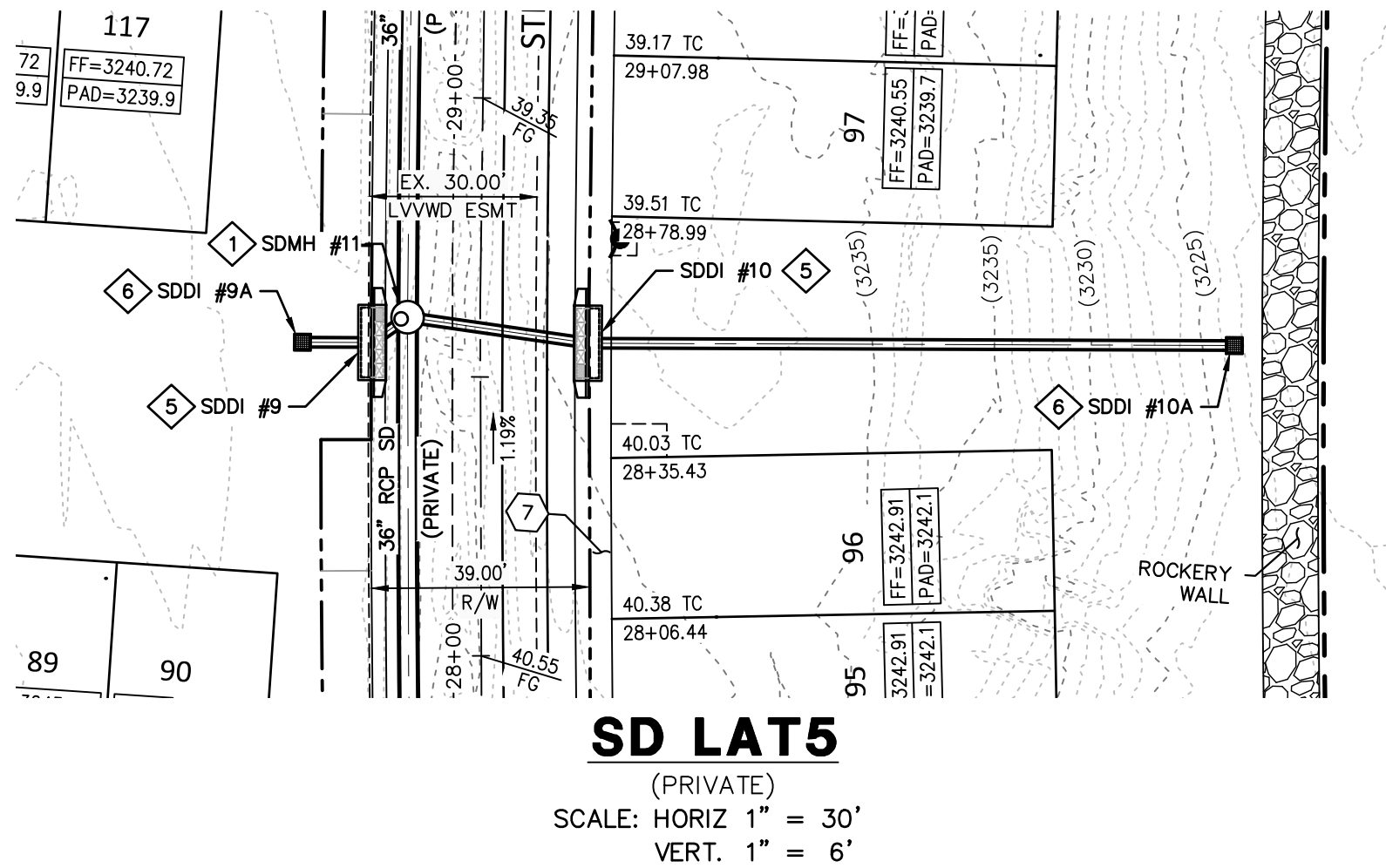
STORM DRAIN LATERALS 1

DRAWING

LAT1

26 OF 34 SHTS





ROADWAY CONSTRUCTION NOTES	
1	INSTALL 2" AC OVER 4" TYPE II BASE
2	CONSTRUCT 'L' TYPE CURB AND GUTTER PER USDDCA No. 216
3	CONSTRUCT 10' TRANSITION PER DETAIL 4 ON SHEET D3
4	CONSTRUCT 30" MODIFIED ROLL CURB AND GUTTER PER USDDCA No. 217.1
5	CONSTRUCT MODIFIED "A" TYPE CURB PER USDDCA No. 219
6	CONSTRUCT 8' WIDE CROSS GUTTER PER USDDCA No. 228
7	CONSTRUCT 5" THICK CONCRETE SIDEWALK PER USDDCA No. 234
STORM DRAIN CONSTRUCTION NOTES	
1	CONSTRUCT 60" TYPE III MANHOLE PER USDDCA DWG No. 401 & 406
2	CONSTRUCT PRECAST MANHOLE PER USDDCA DWG No. 401 & 406
3	CONSTRUCT 7.5" TYPE "DM2" DROP INLET PER USDDCA DWG No. 412.1
4	CONSTRUCT 10.0" TYPE "DM2" DROP INLET PER USDDCA DWG No. 412.1
5	CONSTRUCT 12.5" TYPE "DM2" DROP INLET PER USDDCA DWG No. 412.1
6	CONSTRUCT 24"x24" GRATE DROP INLET PER USDDCA DWG No. 412.1
7	CONNECTION POINT, SEE DETAIL 6 ON SHEET D3

