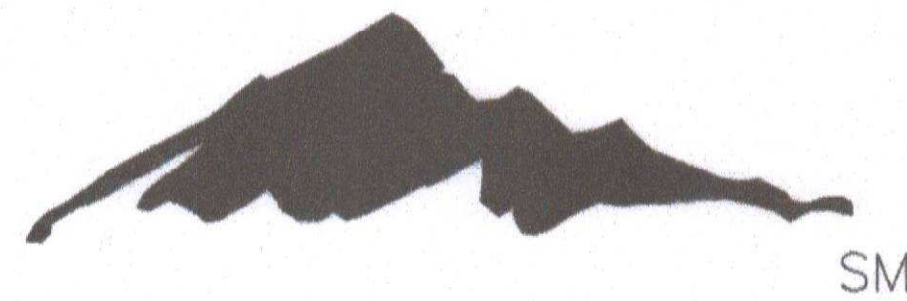
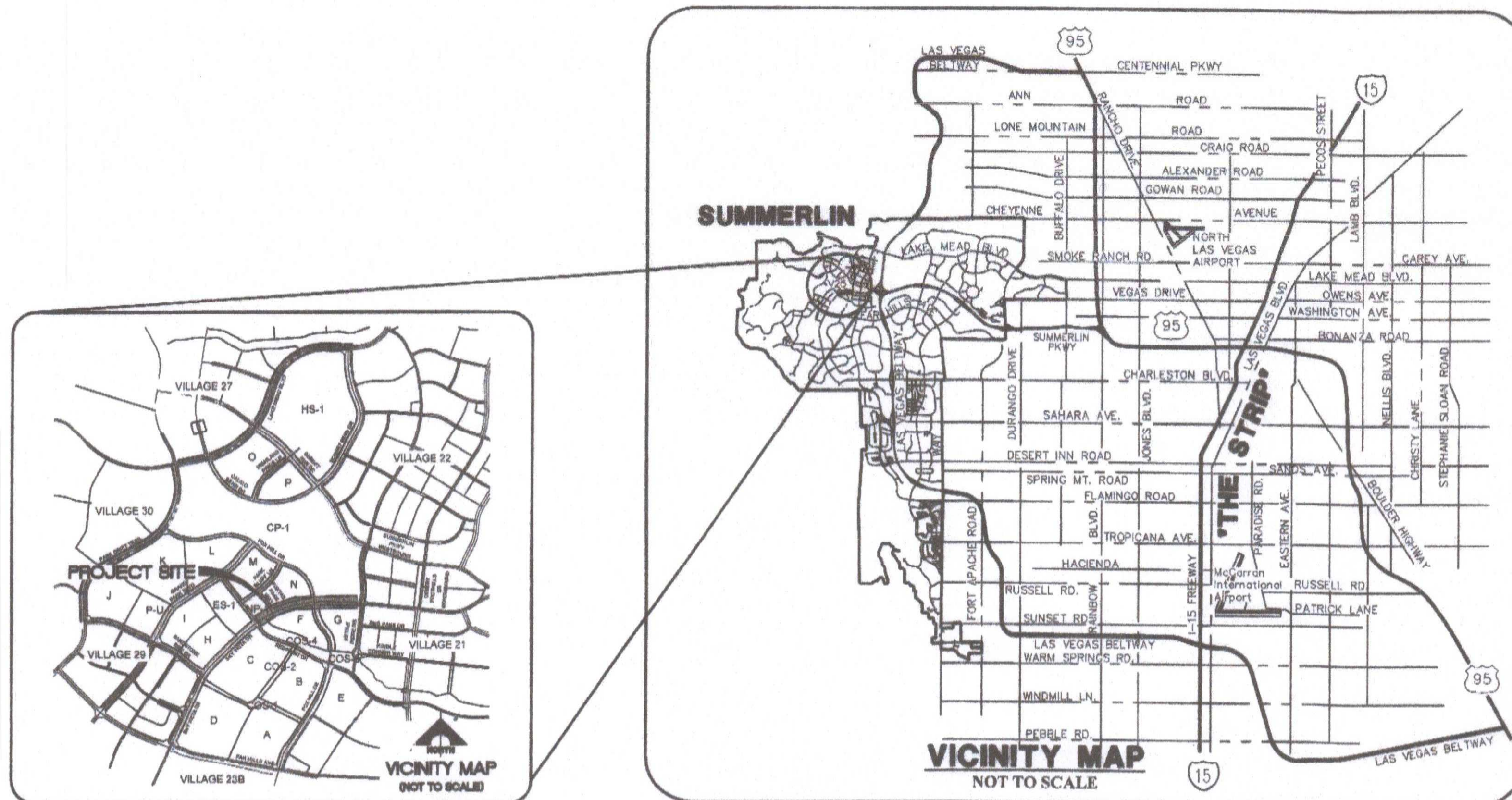


SUMMERLIN



VILLAGE 25 SKY VISTA DRIVE IMPROVEMENTS (REDPOINT DRIVE TO KETTLE RIDGE DRIVE) FUTURE SID PROJECT A.P.N. 137-22-301-004 2020



OWNER/DEVELOPER

THE HOWARD HUGHES COMPANY, LLC
10845 GRIFFITH PEAK DRIVE, SUITE 160
LAS VEGAS, NEVADA 89135
OFFICE PHONE NO. (702) 791-4300

ENGINEER

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



Digitally signed by Michael Fang
Date: 2021.01.07 16:55:35 -08'00'

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 138980 FIRST APPROVAL DATE: 12/13/2020
LVWD APPROVED FIRE FLOW: TOTAL 1,500 GPM / ON-SITE N/A GPM
SHEETS: G1-G2, MU1-MU3, PP1-PP5, LP1-LP5, DT4

LAS VEGAS FIRE & RESCUE APPROVAL
LAS VEGAS FIRE & RESCUE DATE

UTILITY APPROVALS
COX COMMUNICATIONS LAS VEGAS, INC. 9/7/20
CENTRAL TELEPHONE CO., DBA CENTURYLINK 9/15/2020

THE AFFIXED CENTURYLINK APPROVAL DOES NOT ASSUME OR GUARANTEE LIABILITY FOR KNOWN OR UNKNOWN CONFLICTS WITH EXISTING OR PROPOSED IMPROVEMENTS. RESOLUTION OF ANY CONFLICT WILL BE ACCOMPLISHED PURSUANT TO LOCAL ORDINANCES, NEVADA REVISED STATUTES AND/OR PUBLIC UTILITY COMMISSION RULES AND REGULATIONS.
NV ENERGY 9/15/2020
NEVADA POWER COMPANY ACKNOWLEDGES THAT WE HAVE RECEIVED YOUR PLANS 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.

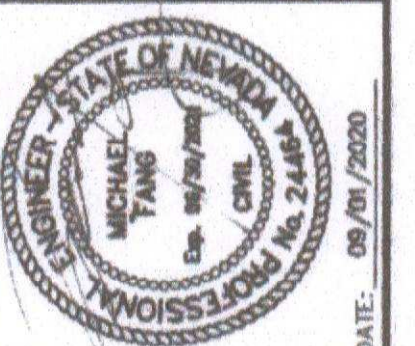
NV ENERGY - TRANSMISSION ENGINEERING 9/15/2020
Amanda Henderson 2020AGH35545 10/05/2020
SOUTHWEST GAS CORPORATION

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.

THE HOWARD HUGHES COMPANY, LLC
KEVIN ORROCK VICE PRESIDENT 7/6/2020

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.
MICHAEL FANG, P.E. 24464 9/1/20

SHEET INDEX		
NO.	DWG	DESCRIPTION
1	G1	COVER SHEET
2	G2	PROJECT DATA SHEET
3	G3	GENERAL NOTES
4	HC1	HORIZONTAL CONTROL 1
5	HC2	HORIZONTAL CONTROL 2
6	MU1	MASTER UTILITY PLAN - WATER
7	MU2	MASTER UTILITY PLAN - STORM DRAIN
8	MU3	MASTER UTILITY PLAN - SEWER
9	MG	MASTER GRADING PLAN
10	GD1	GRADING PLAN 1
11	PP1	PLAN AND PROFILE 1
12	PP2	PLAN AND PROFILE 2
13	PP3	PLAN AND PROFILE 3
14	PP4	PLAN AND PROFILE 4
15	PP5	PLAN AND PROFILE 5
16	LP1	LATERAL PROFILES 1
17	LP2	LATERAL PROFILES 2
18	LP3	LATERAL PROFILES 3
19	LP4	LATERAL PROFILES 4
20	LP5	LATERAL PROFILES 5
21	DT1	TYPICAL DETAILS AND SECTIONS 1
22	DT2	TYPICAL DETAILS AND SECTIONS 2
23	DT3	TYPICAL DETAILS AND SECTIONS 3
24	DT4	UTILITY DETAILS
25	TR1	SIGNAGE AND STRIPING PLAN 1
26	TR2	SIGNAGE AND STRIPING PLAN 2
27	TR3	SIGNAGE AND STRIPING PLAN 3
28	SL1	STREETLIGHT AND ELECTRICAL PLAN 1
29	SL2	STREETLIGHT AND ELECTRICAL PLAN 2
30	SL3	STREETLIGHT AND ELECTRICAL PLAN 3
31	SL4	STREETLIGHT AND ELECTRICAL PLAN 4
32	S1	GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS
33	S2	JUNCTION STRUCTURE DETAILS
34	S3	JUNCTION STRUCTURE DETAILS II
35	S4	8'X5' RCB SECTION



REV/	DATE	DESCRIPTION	DATE	AGEN APP	DATE	GCW APP	DATE

PROJECT NO. 62025-206
DESIGN: LG/AF
DRAWN: AS
CHECK: LG/AF
PLOT DATE: 09-01-20
PLOT TIME: 14:21:41
ALEXANDER SANTAGO

THE HOWARD HUGHES COMPANY, LLC
VILLAGE 25 SKY VISTA DRIVE IMPROVEMENTS
(REDPOINT DRIVE TO KETTLE RIDGE DRIVE)

DRAWING
G1
1 OF 35 SHTS

LAS VEGAS VALLEY WATER DISTRICT

LVVWD PROJECT # 136980

(REVISED 08/01/2017)

1. NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN APPROVED FOR CONSTRUCTION BY THE LVVWD. FOLLOWING WATER PLAN APPROVAL, NOTICE SHALL BE GIVEN TO THE LVVWD COMMUNICATION SUPPORT CENTER (258-7171) TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. FOR FUTURE INSPECTIONS, NOTICE MUST BE GIVEN BY 2:00 P.M. THE BUSINESS DAY PRIOR TO THE REQUESTED LVVWD INSPECTION. WHEN REQUESTING INSPECTIONS, PLEASE REFER TO THE PROJECT # IDENTIFIED ABOVE.
2. ALL WORK SHALL CONFORM TO LVVWD STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS, AND TO THE 2010 EDITION OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS). THE LATEST EDITION OF UDACS SHALL SUPERSEDE ANY CONFLICTS CONTAINED IN THE APPROVED DRAWINGS AND/OR SPECIFICATIONS.
3. ALL WORK, EXCEPT AS MODIFIED BY THESE PLANS OR BY NOTE 2 ABOVE, SHALL BE DONE IN ACCORDANCE WITH THE MOST RECENT DRAFT OR EDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENT, CLARK COUNTY AREA.
4. A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVVWD.
5. ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING WITH LVVWD APPROVED SERVICE SADDLES.
6. ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
7. ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY AND CURB CUTTERS.
8. ALL WATER AND STORM DRAIN OR SANITARY SEWER CROSSINGS SHALL CONFORM TO SECTION 2.22 OF THE 2010 EDITION OF THE UDACS.
9. ALL WATER FACILITIES AND APPURTENANCES SHALL BE DISINFECTED, PRESSURE TESTED, AND HAVE AN ACCEPTABLE PASSING HEALTH WATER SAMPLE OBTAINED, PRIOR TO OPERATION AND USE.
10. THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES AND SMALLER FROM LVVWD CENTRAL STORES. TELEPHONE 258-3152 OR 258-3802. TWO (2) WORKING DAYS PRIOR TO METER PICKUP.
11. ANY INTERRUPTION OF SERVICE MUST BE PERFORMED IN ACCORDANCE WITH UDACS SECTION 3.14.01, AND APPROVED BY THE LVVWD INSPECTION DIVISION PRIOR TO SHUTDOWN. PROPER WRITTEN NOTIFICATION MUST BE GIVEN TO ALL AFFECTED CUSTOMERS.
12. ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST BE LISTED ON THE LVVWD APPROVED PRODUCTS LIST FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS BY SUBMITTING SHOP DRAWINGS.
13. TELEPHONE "CALL BEFORE YOU DIG" AT 811 OR 1-800-227-2600
14. THE INSTALLATION OF LVVWD MUNICIPAL WATER FACILITIES WITHIN ALL STREETS IS ASSUMED TO BE IN COMPLIANCE WITH THE UNIFORM STANDARDS, INCLUDING THE PLACEMENT OF ASPHALT PAVING STREET SURFACES. ANY REPAIR WORK DONE BY THE LVVWD TO THE MUNICIPAL WATER FACILITIES WILL INCLUDE THE PLACEMENT OF AN APPROPRIATELY SIZED ASPHALT REPAIR ON THE STREET SURFACE.

ANY DECORATIVE PAVING SURFACE WITHIN THE STREET IS THE RESPONSIBILITY OF THE OWNER'S ASSOCIATION, OR THE INDIVIDUAL PROPERTY OWNERS IF NO OWNER'S ASSOCIATION IS IN EXISTENCE, OR THE AGENCY HAVING JURISDICTION. DECORATIVE SURFACE MATERIALS PLACED WITHIN THE TEN FOOT EASEMENT ADJUTING A PUBLIC OR PRIVATE STREET, IF DISTURBED BY THE LVVWD DURING THE REPAIR OR OPERATION OF ITS FACILITIES, WILL BE REPLACED BY LVVWD WITH AN APPROPRIATELY SIZED PLAIN FINISH CONCRETE PATCH. THE LVVWD WILL NOT RESTORE, AND WILL NOT BE RESPONSIBLE FOR THE RESTORATION OF, ANY DECORATIVE PAVING SURFACE WITHIN THE STREET. THE LVVWD WILL NOT ATTEMPT TO MATCH COLOR OR FINISH OF ANY ADJACENT MATERIALS.

15. NO LEAD COMPLIANCE NOTE:
TO COMPLY WITH THE FEDERAL SAFE DRINKING WATER ACT, ALL WATER WORKS BRASS PRODUCTS PROPOSED TO BE RELOCATED, OR INSTALLED AS NEW MUST BE INSTALLED WITH THE LEAD FREE APPROVED PRODUCT. THE OLD LEADED PRODUCT MAY NOT BE REUSED.

ADDITIONAL WATER NOTES

1. INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING, PER UDACS PLATE 15.
2. 24" MINIMUM DEPTH OF COVER OVER WATER LINE MUST BE MAINTAINED DURING CONSTRUCTION.
3. THE DISTRICT CANNOT GUARANTEE A WATERTIGHT SHUTDOWN WHERE CONNECTIONS OR REPAIRS TO EXISTING FACILITIES ARE REQUIRED. THE CONTRACTOR SHALL ENSURE ALL LABOR AND EQUIPMENT IS AVAILABLE TO REMOVE FUGITIVE WATER THAT MAY IMPEDE CONSTRUCTION AT ALL TIMES. COORDINATION WITH INSPECTION DIVISION MUST TAKE PLACE PRIOR TO ANY TRIAL SHUTDOWN. CONTRACTOR TO INSTALL TEMPORARY SERVICE TO ENSURE PROPER SHUTDOWN IN THE EVENT NO OTHER APPURTENANCES ARE AVAILABLE.
4. THIS PROJECT PROVIDES FOR THE INSTALLATION OF OFF-SITE WATER MAINS ONLY, AND DOES NOT PROVIDE OR IMPLY ANY WATER COMMITMENT.

FOR TRENCHES 4-FEET WIDE AND GREATER

CONTRACTOR MUST SUBMIT SHOP DRAWINGS TO LVVWD ENGINEERING SERVICES BEFORE CONSTRUCTION TO SHOW HOW WATERLINES SPANNING A TRENCH WILL BE SUPPORTED DURING EXCAVATION AND BACKFILL.

SUPPORTED PIPELINES MAY BE EXPOSED FOR NO LONGER THAN 90 DAYS MAXIMUM. IF THE PIPE WILL BE EXPOSED FOR MORE THAN 90 DAYS, PIPE MUST BE RELOCATED PER APPROVED PLANS.

IF THE PIPE MATERIAL IS ACP, REPLACE FROM COUPLING TO COUPLING WITH DUCTILE IRON PIPE.

CONDITIONAL APPROVAL OF VALVED OUTLET

(6" AND LARGER)

THE WATER PLANS SHOW ONE OR MORE VALVED OUTLETS EXTENDING OUT OF PAVED AREAS. IMMEDIATELY UPSTREAM OF THESE OUTLETS, HOWEVER, THE OUTLETS ARE INCORRECTLY LOCATED OR NOT USED FOR ANY REASON WHEN THE PROPERTY IS ACTUALLY DEVELOPED, THE DEVELOPER SHALL ABANDON THE OUTLETS AT THE CONNECTION TO THE ACTIVE MAIN IN ACCORDANCE WITH LVVWD STANDARDS AND AT THE DEVELOPER'S EXPENSE. APPROVAL OF THE VALVED OUTLET DOES NOT PROVIDE OR IMPLY A WATER COMMITMENT.

WATER MAIN JOINT NOTES (PVC 4"-24")

PVC PIPE SHALL BE DEFLECTED AT THE JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE ONE (1) DEGREE PER JOINT WITH A MINIMUM RADIUS OF CURVATURE OF 1,150 FEET, PER UDACS 2.07.01 AND 2.07.02.

FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTINGS SHALL BE USED.

WATER MAIN JOINT NOTES (DIP 4"-12")

DIP PIPE SHALL BE DEFLECTED AT THE JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE TWO AND ONE-HALF (2.5) DEGREES PER JOINT WITH A MINIMUM RADIUS OF CURVATURE OF 415 FEET, PER UDACS 2.07.03.

FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTINGS SHALL BE USED.

ALL SEWER/STORM DRAIN CROSSING WATER LINES MUST COMPLY WITH UDACS SECTION 2.22

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
RIGHT-OF-WAY LINE	DROP INLET
PROPERTY LINE	FIRE HYDRANT
CENTERLINE	WATER METER
TYPICAL UTILITY LINE 4" - 12" (SINGLE LINE)	WATER RPPA
TYPICAL UTILITY LINE > THAN 12" (DOUBLE LINE)	WATER RPDA
TYPICAL SEWER LINE W/MH	TRAFFIC SIGNAL PULL BOX
TYPICAL WATER LINE W/GV	STREET LIGHT CLARK COUNTY
TYPICAL STORM LINE W/MH	STREET LIGHT SUMMERLIN STD
100 YR HYDRAULIC GRADE LINE	TRAFFIC SIGNAL/FLASHER
CONCRETE OR STEEL ENCASEMENT	EXISTING TELE POLE
TYPICAL STUB & BLOW-OFF	EXISTING POWER POLE
EX. UTILITIES PROFILE VIEW	EXISTING POLE
EX. GAS LINE	EX. ELEC MARKER
EX. ELECTRICAL	TRANSFORMER PAD
EX. CABLE TV	SERVICE PEDESTAL
EX. TELEPHONE	PULLBOX
EX. OVERHEAD POWER LINES	PROPOSED CONTOUR
EX. ELEC & PWR POLES	EXISTING CONTOUR
TYPICAL CURB & GUTTER, SIDEWALK AND RAMP	PROPOSED SPOT ELEVATION
POST AND CABLE FENCE	EXISTING SPOT ELEVATION
CHAIN LINK FENCE	PROPOSED SLOPE
SAWCUT	EXISTING SLOPE
PAVEMENT RESORATION AREA	PROPOSED SLOPE
PROPOSED ABANDONMENT	SLOPE DIRECTION
EXISTING ABANDONMENT	FINISH FLOOR ELEVATION
CUT LINE LIMITS	
FILL LINE LIMITS	

ABBREVIATIONS			
A	AIR	DIA, #	DIAMETER
AC	ASPHALT CONCRETE, ACRE	DIP	DUCTILE IRON PIPE
ACP	ASBESTOS CEMENT PIPE	DIST	DISTANCE
ADD'L	ADDITIONAL	DR	DRIVE
AP	ANGLE POINT	DS	DOWNSPOUT
APN	ASSESSOR'S PARCEL NUMBER	DTL	DETAIL
APPROX	APPROXIMATELY	DW	DRIVEWAY
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	DWG	DRAWING
		E	EAST
		ECR	END CURB RETURN
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	ELE,ELEC	ELECTRICAL
AVE	AVENUE	ELEV	ELEVATION
AVAR	AIR VALVE, AIR RELEASE	EP, EOP	EDGE OF PAVEMENT
		ESMT	EASEMENT
AWWA	AMERICAN WATER WORKS ASSOCIATION	EVP	END VERTICAL CURVE
		EXIST,EX	EXISTING EXPANSION JOINT
BC	BACK OF CURB	EXP	EXPANSION JOINT
BCR	BEGIN CURB RETURN	FC	FACE OF CURB
BLM	BUREAU OF LAND MANAGEMENT	FF, FFE	FINISH FLOOR ELEVATION
BLVD	BOULEVARD	FG	FINISH GRADE
BM	BENCHMARK	FL	FIRE HYDRANT
BO	BLOW-OFF	FL	FLOW LINE
BVCE	BEGIN VERTICAL CURVE	FO	FIBER OPTIC
	ELEVATION	FRP	FIBERGLASS REINFORCED PLASTIC
BVCS	BEGIN VERTICAL CURVE STATION	FS	FINISH SURFACE
BVP	BEGIN VERTICAL POINT	FT	FOOT/FEET
CB	BACK OF SIDEWALK	FTG	FOOTING
C, &	CENTERLINE	FUT	FUTURE
C&G	CURB AND GUTTER	G	GAS
CATV	UNDERGROUND CABLE TV	GA	GAGE, GUY ANCHOR
CCBM	CLARK COUNTY BENCH MARK	GB	GRADE BREAK
CCPW	CLARK COUNTY PUBLIC WORKS	GND	GROUND
CCTV	CLOSED-CIRCUIT TELEVISION	GRD	GRADE, GROUND
COWRD	CLARK COUNTY WATER RECLAMATION DISTRICT	H, HGT	HEIGHT
		HDWL	HEADWALL
CE	COMMON ELEMENT	HGL	HYDRAULIC GRADE LINE
CFS	CUBIC FEET PER SECOND	HORIZ	HORIZONTAL
CIP	CAPITAL IMPROVEMENTS PROJECT, CORRUGATED IRON PIPE	HP	HIGH POINT, HIGH PRESSURE
CIPM	CURED-IN-PLACE MANHOLE	HPS	HIGH PRESSURE SODIUM
CIPP	CURED-IN-PLACE PIPE	IBC	INTERNATIONAL BUILDING CODE
CIR	CIRCLE	INV	INVERT
CLR	CLEAR OR CLEARANCE	INT	INTERIM
CLM	CONTROLLED LOW STRENGTH MATERIAL	JT	JOINT
CLV	CITY OF LAS VEGAS	L	LENGTH
CMP	CORRUGATED METAL PIPE	L, LT	LEFT
CMU	CONCRETE MASONRY UNIT	LF	LINEAR FEET
CNVL	CITY OF NORTH LAS VEGAS	LIP	LIP OF GUTTER
CO	CLEANOUT	LN	LANE
CONC	CONCRETE	LP	LOW POINT, LIGHT POLE
COND	CONDUIT	LSC	LANDSCAPE
CONST	CONSTRUCT OR CONSTRUCTION	LVVWD	LAS VEGAS VALLEY WATER DISTRICT
COORD	COORDINATE	MAX	MAXIMUM
COR	CORNER	MH	MANHOLE
CPEP	CORRUGATED POLYETHYLENE PIPE	MIN	MINIMUM
CT	COURT	MLTMC	MORTAR LINED TAPE & MORTAR
CT	CUBIC YARD(S)	MOD	MODIFY/MODIFIED
DBL	DOUBLE	MON	MONUMENT
DCS\	DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEM (LATEST ED.)	MPH	MILES PER HOUR
DCSWCS	DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEM (LATEST ED.)	N	NORTH
DEFL	DESIGN GRADE	NAP	NOT A PART
DG	DESIGN GRADE	NDOT	NEVADA DEPARTMENT OF TRANSPORTATION
DI/D.I.	DROP INLET	N.I.C.	NOT IN CONTRACT
		No.	NUMBER
		NOSHA	STATE OF NEVADA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
		NPC	NEVADA POWER COMPANY
		NTS	NOT TO SCALE
		NVE	NV ENERGY
		OB	OVERBUILD
		OC	ON CENTER
		OHC	OVERHEAD COX COMMUNICATION
		OHP	OVERHEAD POWER LINE
		P	POWER LINE
		PB	PULL BOX
		PBS	PLANTMIX BITUMINOUS SURFACE
		PC	POINT OF CURVE, PRESSURE
		PCC	CLASS
		PE	POINT OF COMPOUND CURVE
		PEE	PROJECT ENGINEER OR POLYETHYLENE
		PED	PEDESTRIAN
		PGL	PROFILE GRADE LINE
		PH	POT HOLE
		PI	POINT OF INTERSECTION
		PIV	POST INDICATOR VALVE
		PL	PROPERTY LINE
		PLCP	POLYURETHANE LINED AND COATED STEEL PIPE
		PMF	PAVEMENT MARKING FILM
		POB	POINT OF BEGINNING
		POC	POINT ON CURVE, POINT OF CONNECTION
		POT	POINT ON TANGENT
		PP	POWER POLE
		PROP	PROPOSED
		PRC	POINT OF REVERSE CURVE
		PRVC	POINT OF REVERSE VERTICAL CURVE
		PSI	POUNDS PER SQUARE INCH
		PT	POINT OF TANGENCY
		PVC	POLYVINYL CHLORIDE
		PVI	POINT OF VERTICAL INTERSECTION
		PVM	PAVEMENT
		PZ	PRESSURE ZONE
		R, RAD	RADIAL, RADIUS
		R, RT	RIGHT
		RCB	REINFORCED CONCRETE BOX
		RCP	REINFORCED CONCRETE PIPE
		RD	ROAD
		RDWY	ROADWAY
		REC	RECTANGULAR
		REF	REFERENCE
		REIN	REINFORCED
		REQD	REQUIRED
		RIM	TOP OF RIM ELEVATION
		RND	ROUND
		ROW,R/W	RIGHT OF WAY
		RP	RADIUS POINT
		RPM	RAISED PAVEMENT MARKERS
		RSQV	RESILIENT SEAT GATE VALVE
		S	SEWER, SOUTH
		SCH	SCHEDULE
		SD	STORM DRAIN
		SDMH	STORM DRAIN MANHOLE
		SECT	SECTION
		SF	SQUARE FOOT/FEET
		SHLDR	SHOULDER
		SHT	SHEET
		SIS	SUMMERLIN IMPROVEMENT STANDARDS
		SL	STREET LIGHT
		SP	SERVICE POINT
		SQ	SQUARE
		SR	SEWER RECLAIM MAIN
		SS	SANITARY SEWER
		SSMH	SANITARY SEWER MANHOLE
		STA	STATION
		ST	STREET
		STD	STANDARD
		STL	STEEL
		STRUCT	STRUCTURE
		SV	SKY VISTA DRIVE
		SVZ	SIGHT VISIBILITY ZONE
		SW	SIDEWALK
		SWG	SOUTHWEST GAS
		TD	TELEPHONE OR TOP
		TAN	TANGENT
		TB	TOP OF BERM
		TC	TOP OF CURB
		TCE	TEMPORARY CONSTRUCTION ESMT
		TEL,TELE	TELEPHONE
		TEMP	TEMPORARY
		TF	TOP OF FOOTING
		TG	TOP OF GRATE
		TMH	TOP OF MANHOLE
		TOP	TOP OF PIPE
		TP	TELEPHONE POLE
		TRANS	TRANSITION
		TRW	TOP OF RETAINING WALL
		TS	TEST STATION
		TS&V	TAPPING SLEEVE & VALVE
		TW	TOP OF WALL
		TYF,(TYP)	TYPICAL
		UDACS	UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (LATEST EDITION)
		UG	UNDERGROUND
		ULT	ULTIMATE
		USD	UNIFORM STD. DRAWINGS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA, NEVADA (LATEST EDITION)
		USDOCA	UNDERGROUND TELEPHONE
		CCAUSD	VARIABLE/VARIABLES
		UT	VERTICAL CURVE
		VAR	VARIABLE/VARIABLES
		VC	VERTICAL CURVE
		VCP	VITRIFIED CLAY PIPE
		VERT	VERTICAL
		VG	VALLEY GUTTER
		VOL	VOLUME
		W	WATER, WEST
		W	WITH
		W/MH	WATER MANHOLE
		WS	WATER SUPPLY
		WT	WEIGHT
		WTR	WATER
		XING	CROSSING
		YD	YARD, YARD DRAIN
		Z	PRESSURE ZONE

SEWER QUANTITIES (PUBLIC)

8" C-900	382 LF
48" MANHOLE	1 EA
48" MANHOLE W/ CORROSION PROTECTION	1 EA
PIPE END CAP	2 EA

QUANTITIES ARE ESTIMATES ONLY. CONTRACTOR IS TO VERIFY DURING BIDDING PROCESS.

WATER QUANTITIES (PUBLIC)

6" DIP	164 LF
12" DIP	395 LF
12" PVC	1,044 LF
12" CAP & BLOW-OFF	4 EA
FIRE HYDRANT ASSEMBLY	3 EA
12"x8" TEE & VALVE (FIRE HYDRANT)	2 EA
12"x12" CROSS	1 EA
12" GATE VALVE	11 EA

QUANTITIES ARE ESTIMATES ONLY. CONTRACTOR IS TO VERIFY DURING BIDDING PROCESS.

STREETLIGHT QUANTITIES (PUBLIC)

STREETLIGHT, 32' SINGLE	1 EA
STREETLIGHT, 32' DOUBLE	11 EA
1-1/4" CONDUIT W/ WIRE & T&B	1,739 LF
2" CONDUIT	1,725 LF
3" INTERCONNECT CONDUIT	848 LF
4" INTERCONNECT CONDUIT	2,123 LF
#3-1/2 PULLBOX	20 EA
#5 PULLBOX	6 EA
#7 PULLBOX	6 EA
TYPE 200 PULLBOX	6 EA
SERVICE POINT	1 EA
TRANSFORMER	1 EA

QUANTITIES ARE ESTIMATES ONLY. CONTRACTOR IS TO VERIFY DURING BIDDING PROCESS.

STORM DRAIN QUANTITIES (PUBLIC)

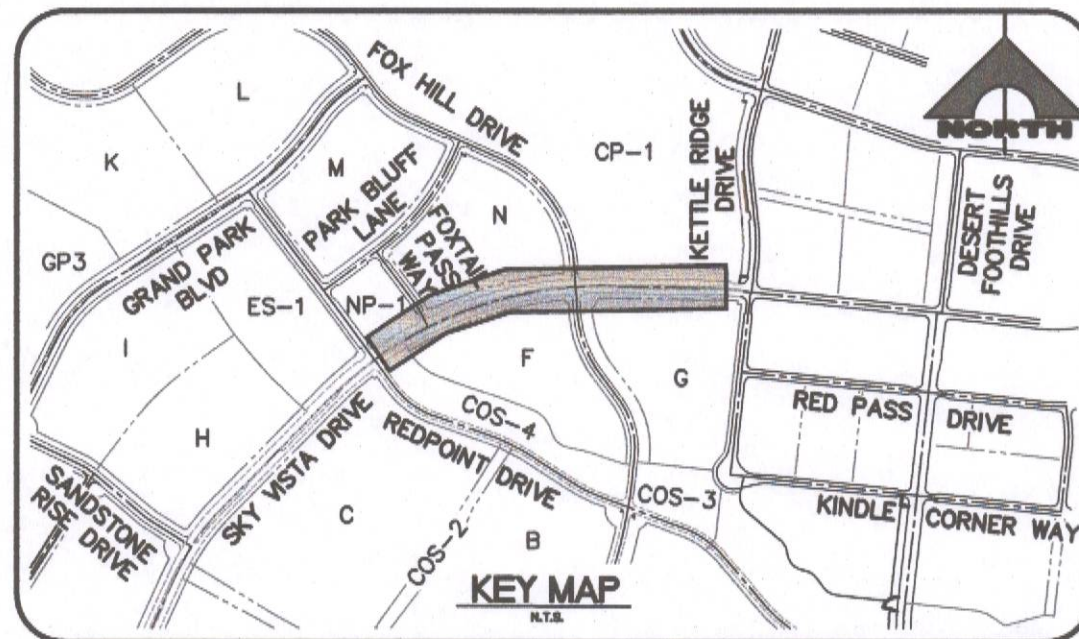
60" RCP	122 LF
60" RCP W/ 1" SACRIFICIAL CONCRETE	812 LF
48" RCP	251 LF
42" RCP	161 LF
24" RCP	131 LF
24" C900 PVC	229 LF
6'x5' RCB W/ 3" SACRIFICIAL CONCRETE	537 LF
6'x5' RCB W/ 5" SACRIFICIAL CONCRETE	201 LF
5'x5' RCB	70 LF
48" TYPE I ACCESS MANHOLE	2 EA
60" TYPE II-SD MANHOLE	6 EA
5' TYPE "CM2" DROP INLET	4 EA
10' TYPE "CM2" DROP INLET	3 EA
12.5' TYPE "CM2" DROP INLET	2 EA
PLUG AND CAP	1 EA

QUANTITIES ARE ESTIMATES ONLY. CONTRACTOR IS TO VERIFY DURING BIDDING PROCESS.

ROAD IMPROVEMENT QUANTITIES (PUBLIC)

EXCAVATION	33,534 CY
EMBANKMENT	7,244 CY
NET (CUT)	26,920 CY
"L" TYPE CURB & GUTTER	4,149 LF
TYPE "A" CURB	3,701 LF
4" A.C. PAVEMENT	14,036 SY
4" TYPE II AGGREGATE BASE	1,560 CY
HANDICAP RAMP	10 EA
PAVEMENT MARKINGS AND STRIPING	1,873 LF
BIKE LANE STRIPING	1,873 LF
SIGNAGE	1,873 LF
RIP RAP (D ₃₀ -8")	237 CY
RIP RAP (D ₃₀ -12")	865 CY

QUANTITIES ARE ESTIMATES ONLY. CONTRACTOR IS TO VERIFY DURING BIDDING PROCESS.



BASIS OF BEARING AND COORDINATES

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS HIGH ELEVATION ZONE, NORTH AMERICAN DATUM OF 1983; SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

LINEAR UNIT: US SURVEY FOOT (FTUS)
DATUM (REFERENCE FRAME): NAD 83 (2011) EPOCH 2010.00
SYSTEM: NEVADA COORDINATE REFERENCE SYSTEM (NCRS)
ZONE: LAS VEGAS HIGH ELEVATION ZONE

PROJECTION: TRANSVERSE MERCATOR
STANDARD PARALLEL (AND LATITUDE OF GRID ORIGIN): 36°15'00"N
LONGITUDE OF CENTRAL MERIDIAN: 114°58'00"W
NORTHING AT GRID ORIGIN: 400,000.00 M (1,312,333.3333 FTUS)
EASTING AT CENTRAL MERIDIAN: 300,000.00 M (984,250.0000 FTUS)
SCALE FACTOR ON CENTRAL MERIDIAN: 1.000135 (EXACT)

- NOTES:
1. ALL DISTANCES AND BEARINGS SHOWN HEREON ARE PROJECTED (GRID) VALUES BASED ON THE PRECEDING PROJECTION DEFINITION. THE PROJECTION WAS DEFINED SUCH THAT PROJECTED (GRID) DISTANCES ARE EQUIVALENT TO "GROUND" DISTANCES IN THE PROJECT AREA.
 2. GRID BEARINGS SHOWN HEREON (OR IMPLIED BY GRID COORDINATES) DO NOT EQUAL GEODETIC BEARINGS DUE TO MERIDIAN CONVERGENCE.

BENCHMARK

BM#	DESCRIPTION	NAVD 88 DATUM	NAVD 88 DATUM
CLV BM No. 7LV09345W6	FIND RIVET AND PLATE IN TOP OF CURB SE CORNER OF DESERT MOON RD. AND SKY VISTA DR. T20S,R59E,S34	3318.31 (FEET)	1,011.422 (METERS)

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES	
PROJECT NO. 136980	FIRST APPROVAL DATE: 12/3/2020
LVVWD APPROVED FIRE FLOW: TOTAL 1,500 GPM / ON-SITE N/A GPM	

L#: L20-00376

CLV#: 107/V8310

PROJECT NO. 62025-206

DESIGN: LG/MS
DRAWN: AS
CHECK: LG/MSPLOT DATE: 11-19-20
PLOT TIME: 09:32:16

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

THE HOWARD HUGHES COMPANY, LLC

CALL SOUTHWEST GAS AT 702-278-8451 FOR STANDBY WHEN EXCAVATING 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 OTHER SMALL-SCALE UTILITIES, LEFT IN PLACE OR CHANGED AS DICTATED BY LOCAL CODES AND STANDARDS.
c) ANY DEVIATION FROM SPECIFIED MINIMUM CLEARANCES MUST BE APPROVED BY ALL AFFECTED UTILITIES AND/OR MUNICIPALITIES
3. FOR VALVE ADJUSTMENT CONTACT 702-528-7881 14 DAYS PRIOR TO CONSTRUCTION
4. IN THE EVENT OF A NATURAL GAS CONFLICT WITH PROPOSED UTILITIES AND STRUCTURES CONTACT 702-365-2099

AMANDA HENDERSON	2020AGH35545	10/05/2020
SOUTHWEST GAS CORPORATION	SWG UID	DATE

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 DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA, NEVADA", LATEST 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 UTILITIES, LINES, PIPES, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY RESEARCH OF THE AVAILABLE RECORDS. EXISTING UTILITIES AS SHOWN FROM CLY 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 PROPOSED CONSTRUCTION AND EQUIPMENT. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD UTILITIES SO AS TO SAFELY PROTECT ALL PERSONS, PROPERTY AND EQUIPMENT. THE CONTRACTOR 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 AT THE CONTRACTOR'S EXPENSE. 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 USED SHALL BE IN ACCORDANCE WITH THE 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. UTILIZATION 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 COMPACTION, EXCEPT AT SIDEWALK RAMPS AND CROSS GUTTERS.
9. CURB AND GUTTER DOWD TO BE UNACCEPTABLE TO THE CITY OF LAS VEGAS SHALL BE REMOVED AND REPLACED PER STANDARD DRAWING 216.
10. SIDEWALK RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER STANDARD DRAWING 235. EXACT LOCATION OF RAMPS MAY BE ADJUSTED IN THE FIELD BY A CITY INSPECTOR.
11. CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR DRAINAGE AND ACCESS TO ALL EXISTING AND NEW CONSTRUCTION. THE EXTENT OF THE TRANSITIONS TO BE SHOWN ON PLANS.
12. ALL GRADING WORK SHALL CONFORM TO THE SOIL REPORT AS PREPARED BY NORTON & COMPANY, INC. REPORT # G-0026
DATE MAY 9TH, 2019 APPROVED BY THE CITY ENGINEER, AND AS SHOWN ON THESE PLANS.
13. EXACT LOCATION OF ALL SAWCUT LINES MAY BE ADJUSTED OR DETERMINED IN THE FIELD BY A CITY OF LAS VEGAS ENGINEER IF LOCATION ON PLANS IS NOT CLEARLY SHOWN, OR EXISTING PAVEMENT CONDITION REQUIRES RELOCATIONS.
14. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT SURVEY MONUMENTS. ANY MONUMENTS DISBURSED SHALL BE REPLACED AND THE RECORDS IN ACCORDANCE WITH THE CITY ENGINEER AND N.R.S. STATUTE NO. 625.380 & CITY OF LAS VEGAS TITLE 18, APPENDIX D.

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

17. ASPHALT MIX DESIGN MUST BE SUBMITTED AND APPROVED BY THE CITY ENGINEER PRIOR TO THE PLACEMENT OF ASPHALT WITHIN CITY RIGHT OF WAY.
18. CONTRACTOR SHALL ADJUST ALL NEW AND EXISTING INLETS, VALVE BOXES, MANHOLE RIMS, AND SEWER CLEAN OUTS, ETC., TO FINISH GRADE AS APPLICABLE WHETHER OR NOT THEY ARE AROUND ON THE PLANS.
19. MATERIALS, HANDLING AND PLACEMENT OF PORTLAND CEMENT CONCRETE SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS OF 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 OFF-SITE INSPECTION AND TESTING CERTIFYING THAT ALL DEVICES HAVE BEEN PLACED AND VERIFIED TO BE IN GOOD WORKING CONDITION PRIOR TO THE CONSTRUCTION OF ANY "POD" BAY.
21. ~~BEFORE HAUNCHING AND PRIOR TO BACKFILL OPERATIONS WHICH WOULD COVER~~
~~SANITARY SEWER AND STORM DRAIN FACILITIES, CONTRACTOR IS REQUIRED TO~~
~~SCHEDULE CIVIL ENGINE TRENCH UTILITY SURVEY INSPECTION AND DETERMINATION~~
~~OF LOCATION OF ALL EXISTING SANITARY SEWER AND STORM DRAIN FACILITIES~~
~~INCLUDE AT A MINIMUM THE HORIZONTAL AND VERTICAL (INVERT) LOCATION OF~~
~~PUBLIC SEWER MANHOLES, CONNECTION TO MAIN MANHOLES AND TRANSITION~~
~~FROM PUBLIC STORM DRAIN FACILITIES TO PRIVATE CONNECTIONS TO~~
~~PRIVATE MAIN AND AT DRAINAGE POINTS AT THE CONNECTION TO THE CONNECTION OF~~
~~SEWER SERVICE LATERALS TO THE SEWER MAIN AND WHERE THE SEWER SERVICE~~
~~LATERALS ENTER THE SEWER MAIN, AND STORM DRAIN FACILITIES~~
~~ADJACENT, INCLUDING DEFLECTION POINTS.~~

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

- 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 (UNDERGROUND) 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 LATERAL EXIT THE PUBLIC RIGHT-OF-WAY, STORM DRAIN 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 NETWORKS OF THE NEVADA DEPARTMENT OF AGRICULTURE. THE MAP(S) MUST BE CERTIFIED BY A NEVADA PROFESSIONAL LAND SURVEYOR TO HAVE POSITIONAL CERTAINTIES OF ± 0.09 METERS (± 0.3 FEET) HORIZONTALLY AND VERTICALLY. A SEPARATE ELECTRONIC COORDINATE LIMITED ACCESS FILE FOR ANY PRIVATE SEWER AND STORM DRAIN COORDINATES SHALL ALSO ACCOMPANY THE SANITARY SEWER AND STORM DRAIN FINAL LOCATION MAP(S).
- 22. 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.
- 23. A SEPARATE BORING PERMIT IS REQUIRED FOR ALL BORING ACTIVITIES.

NONE

1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE LAS VEGAS FIRE AND RESCUE ADOPTED FIRE CODE ORDINANCE #6631 FOR HYDRANT SPECIFICATIONS AND HYDRANT INSTALLATION SPECIFICATIONS.

1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE LAS VEGAS FIRE AND RESCUE ADOPTED FIRE CODE ORDINANCE #631 FOR HYDRANT SPECIFICATIONS AND HYDRANT INSTALLATION SPECIFICATIONS.
2. ONLY FIRE HYDRANTS THAT ARE ON THE LAS VEGAS VALLEY WATER DISTRICT'S - APPROVED PRODUCTS LIST ARE ALLOWED TO BE INSTALLED.
3. A PERMIT IS REQUIRED FROM LAS VEGAS FIRE AND RESCUE FOR THE INSTALLATION OF ON-SITE WATER LINES AND FIRE HYDRANTS. THE PERMIT AND CONTRACTORS MATERIAL TEST CERTIFICATE FOR UNDERGROUND PIPING FORM SHALL BE OBTAINED FROM THE FIRE PROTECTION ENGINEER BEFORE COMMENCEMENT OF WORK. [CFC SECTION 105.6.15]
4. ON ANY RESIDENTIAL OR COMMERCIAL INSTALLATIONS, FIRE HYDRANTS SHALL BE INSTALLED AND FIRE APPARATUS ACCESS ROADS SHALL BE MAINTAINED BEFORE COMMENCEMENT OF ANY COMBUSTIBLE CONSTRUCTION. ALL FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER AND SHALL BE CAPABLE OF DELIVERING THE REQUIRED FIRE FLOW. [CFC SECTION 3310, SECTION 3312]
5. TO IDENTIFY FIRE HYDRANT LOCATIONS, THE CONTRACTOR SHALL PLACE A BLUE REFLECTIVE MARKER AT THE END OF THE STREET ADJACENT TO THE FIRE HYDRANTS. [CFC SECTION 507.5.7.3]
6. ALL UNDERGROUND INSPECTIONS, PRESSURE AND FLUSH VERIFICATIONS OF FIRE HYDRANTS AND FIRE LINES SHALL BE CONDUCTED BEFORE COVERING THE LINES. CROWN LOADING IS ACCEPTABLE FOR THE HYDRO TESTS WITH PRIOR FIRE PREVENTION APPROVAL. [CFC SECTION 106.3]
7. ALL ON-SITE UNDERGROUND WATER MAINS AND MATERIALS SHALL BE U.L. LISTED, A.S.N.W.A. APPROVED AND SHALL BE RATED FOR THE APPROPRIATE WORKING PRESSURE. [CFC SECTION 507.2.1, NFPA 242]
8. PAINTING OF CURBS, FIRE HYDRANTS, PADS, PROTECTION OF FIRE HYDRANTS FROM PHYSICAL DAMAGE, AND ALL OTHER WORK NECESSARY PER PLANS SHALL BE COMPLETED PRIOR TO ANY LAS VEGAS FIRE AND RESCUE, FIRE PREVENTION DIVISION. [CFC SECTION 507]
9. PRIVATE FIRE HYDRANTS SHALL BE VALUED RED. [CFC SECTION 507.5.7.1]
10. PRIOR TO THE FINAL OCCUPANCY, A FIRE FLOW TEST SHALL BE WITNESSED BY LAS VEGAS FIRE AND RESCUE, FIRE PREVENTION DIVISION TO VERIFY AVAILABILITY OF THE REQUIRED FIRE FLOW. [CFC SECTION 507]
11. FIRE HYDRANTS SPACING SHALL BE AS FOLLOWS: [CFC SECTION C102]
RESIDENTIAL - 500 FT UNSPRINKLERED; 600 FT SPRINKLERED.
COMMERCIAL - 500 FT UNSPRINKLERED; 400 FT SPRINKLERED.
12. WHERE THE WATER MAINS ARE EXTENDED ALONG STREETS OR NEW STREETS, AT ANY INSTANT WHERE FIRE HYDRANTS ARE NOT NEEDED FOR PROTECTION OF THE STRUCTURES, FIRE HYDRANTS SHALL BE INSTALLED AT A MAXIMUM OF 1,000 FT SPACING, TO PROVIDE FOR TRANSPORTATION HAZARDS, WHERE STREETS ARE PROVIDED WITH MEDIAN DIVIDERS OR HAVE FOUR (4) OR MORE TRAFFIC LANES AND HAVE A TRAFFIC COUNT OF MORE THAN 30,000 PER DAY. HYDRANTS ARE REQUIRED ON EACH SIDE OF THE STREET SPACED AT 500 FT ON AN ALTERNATING BASIS. [CFC SECTION C102.8]
13. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN THE RADIUS OF A CUL-DE-SAC OR WITHIN 20 FT OF THE PERIMETER OF THE RADIUS OF THE CUL-DE-SAC.
14. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN 6 FT OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREETLIGHT OR ANY OTHER OBSTRUCTION. [CFC SECTION C102.10]
15. A MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A ONE-TWO FAMILY DWELLING SHALL NOT EXCEED 300 FT, AS MEASURED BY AN APPROVED ROUTE. [CFC SECTION C102.4]
16. THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A FIRE DEPARTMENT CONNECTION (FDC) SHALL NOT EXCEED 100 FT, AS MEASURED BY AN APPROVED ROUTE. [CFC SECTION C102.7]
17. THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO THE END OF A DEAD-END STREET SHALL NOT EXCEED 200 FT. [CFC SECTION C102.6]
18. TWO (2) SOURCES OF SUPPLY ARE REQUIRED WHENEVER THERE IS 4 OR MORE FIRE HYDRANTS/SPRINKLER LEAD-INS ARE INSTALLED ON A SINGLE SYSTEM. FOR SYSTEMS REQUIRED TO HAVE TWO (2) SOURCES OF WATER SUPPLY, THE TWO UNINTERRUPTED LEAD-INS MUST BE INSTALLED SO THAT NO MORE THAN 2 FIRE HYDRANTS AND/OR SPRINKLER LEAD-INS CAN BE OUT OF SERVICE DUE TO A SERVICE INTERRUPTION. FOR SYSTEMS PERMITTED TO HAVE ONE SOURCE OF WATER SUPPLY, SECTIONAL CONTROL VALVES SHALL BE INSTALLED SO THAT NO MORE THAN 3 FIRE HYDRANTS AND/OR FIRE SPRINKLER LEAD-INS CAN BE OF SERVICE DUE TO A SERVICE INTERRUPTION. [CFC SECTION C104]
19. ALL FIRE APPARATUS ACCESS ROADS SHALL BE PAVED TO PROVIDE ALL-WEATHER DRIVING CAPABILITIES, AND SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF THE FIRE APPARATUS. [CFC SECTION 503.2.3]
20. THE GRADIENT FOR THE FIRE APPARATUS ACCESS ROADS SHALL NOT EXCEED 12% GRADES OF APPROACH AND ANGLES OF DEPARTURE SHALL NOT EXCEED 90 DEGREES. THE MAXIMUM ALLOWED GRADE CHANGES ADJACENT TO THE STRUCTURES GRADIENT SHALL NOT EXCEED 6%. [CFC SECTION 503.2.7, 503.2.8]
21. THE TURNING RADIUS OF THE FIRE APPARATUS ACCESS ROADS SHALL BE NO LESS THAN 52 FT OUTSIDE AND 28 FT INSIDE TURNING RADIUS. [CFC 503.2.4]
22. VERTICAL CLEARANCE OF ALL FIRE APPARATUS ACCESS ROADS SHALL NOT BE LESS THAN 13 FT 6 IN. [CFC SECTION 503.2.1]
23. FIRE DEPARTMENT ACCESS ROADS SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF NOT LESS THAN 24 FT WITH PARKING ON BOTH SIDES MEASURED TO FACE OF CURB. ACCESS ROADS SHALL BE 24 FT WIDE WITH PARKING RESTRICTED TO ONE SIDE MEASURED TO FACE OF CURB. NOT LESS THAN 24 FT WIDE WITH NO PARKING ON EITHER SIDE MEASURED TO FACE OF CURB. FIRE LANES THROUGH PARKING LOTS SHALL NOT BE LESS THAN 24 FT. [CFC SECTION 503.2.1.1]
24. A FIRE APPARATUS ACCESS ROAD SHALL BE REQUIRED WHEN ANY PORTION OF AN EXTERIOR WALL OF THE FIRST STORY IS LOCATED MORE THAN 150 FT FROM THE FIRE DEPARTMENT VEHICLE ACCESS. [CFC SECTION 503.1.1.1]
25. APPROVED SECONDARY FIRE APPARATUS ACCESS SHALL BE PROVIDED FOR 2000 GPM OR GREATER FLOW. THE ACCESS SHALL BE EITHER A SINGLE POINT OF ACCESS IN EXCESS OF 600 FT, CLV REGULATION AND MOU.
26. ALL DEAD-END FIRE APPARATUS ROADS AND/OR FIRE LANES, PUBLIC OR PRIVATE, IN EXCESS OF 150 FT IN LENGTH SHALL BE PROVIDED WITH AN APPROVED TURN AROUND HAVING A MINIMUM DIAMETER OF 81 FT. CLV REGULATION
27. ALL FIRE APPARATUS ACCESS ROADS SHALL BE MARKED BY PLACING APPROVED SIGNS AT THE START OF THE DESIGNATED FIRE LANE, ONE SIGN AT THE END OF THE FIRE LANE AND WITH SIGNS AT INTERVALS OF 100 FT ALONG THE FIRE LANE. APPROVED SIGNS SHALL BE PLACED AT THE BEGINNING OF THE ACCESS ROADWAY IF NEEDED TO PREVENT PARKING ON EITHER SIDE. SIGNS TO BE INSTALLED NO HIGHER THAN 10 FT OR LESS THAN 6 FT FROM THE ROADWAY. THE SIGN SHALL BE PAINTED WITH A RED WEATHER RESISTANT PAINT (IF CURB IS PROVIDED) SHALL BE PAINTED WITH A RED WEATHER RESISTANT PAINT IN ADDITION TO THE SIGNS. [CFC SECTION 503.3]
28. ELECTRICALLY CONTROLLED ACCESS GATES SHALL BE PROVIDED WITH AN APPROVED EMERGENCY VEHICLE DETECTOR/RECEIVER SYSTEM. [CFC SECTION 503.6]
29. WHERE STREETS ARE PROVIDED WITH MEDIAN DIVIDERS, OR HAVING FOUR OR MORE TRAVEL LANES AND A TRAFFIC COUNT OF MORE THAN 30,000 VEHICLES PER DAY, ALL HYDRANTS BEING UTILIZED TO DELIVER FIRE FLOW TO PROPOSED DEVELOPMENT SHALL BE VALUED RED. THE SAME SIDE OF THE STREET AS THE PROPOSED DEVELOPMENT. CLV REGULATION.

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS AND THE UNIFORM STANDARD SPECIFICATION FOR HIGH CROSSOVER CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, AS AMENDED. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THE ABOVE SPECIFICATIONS.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM CONSTRUCTION AS PER PLANS, ANY ADDITIONS, DELETIONS, OR CHANGES SHALL FIRST MEET WITH THE APPROVAL OF THE CITY ENGINEER.
3. CHISEL "S" OR "G" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.
4. POLYVINYL (PVC) SEWER PIPE SHALL MEET ASTM D-3034 SDR 35 SPECIFICATIONS, INSTALLED WITH SAND BEDDING AND BACKFILL OF TYPE II AGGREGATE BASE.
5. ALL MANHOLES PAVED IN STREETS EIGHTY (80') FOOT R/W AND LARGER SHALL HAVE CONCRETE COLLARS. STREETS LESS THAN EIGHTY (80') FOOT R/W SHALL REQUIRE RETROFIT IF PAVING DOES NOT CONFORM TO CITY STANDARDS AT THE MANHOLE.
6. TIE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO TWELVE INCH (12") DIAMETER. CONNECTIONS TO FIFTEEN INCH (15") OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES. IN LINE "Y" SHALL BE WELDED ON LINES TWELVE INCHES (12") OR ABOVE.
7. WATER MAINS SHALL BE PROTECTED IN ACCORDANCE WITH LVWD STANDARD SPECIFICATIONS WHEN A SEWER OR GAS MAIN OVERLIES A WATER MAIN OR THE SEWER IS LESS THAN EIGHTEEN INCH (18") UNDER A WATER MAIN.
8. ALL CONTRACTORS INSTALLING SEWER MAINS THAT WILL BE UNDER THE JURISDICTION OF THE CITY OF LAS VEGAS MUST BE STATE OF NEVADA CLASS "A" CONTRACTORS.
9. THE CITY OF LAS VEGAS WILL NOT ACCEPT ANY SEWER MAINS WHICH HAVE A VERTICAL DEFLECTION OF MORE THAN ONE TENTH (0.1) OF A FOOT FROM THE APPROVED CONSTRUCTION PLANS AT ANY LOCATION. SEWER MAINS FOUND TO EXCEED THIS TOLERANCE WILL HAVE TO BE REPAIRED OR REMOVED OR REPLACED TO THE SATISFACTION OF THE CITY ENGINEER PRIOR TO ACCEPTANCE BY THE CITY OF LAS VEGAS.
10. INSTALLATION OF CURVED SEWER REQUIRES THE USE OF C-900 PIPE WHICH ALLOWS FOR PIPE DEFLECTION AT THE JOINTS.

REVISED 04/15/10

1. THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER MATERIALS THAT HAVE ACCUMULATED OR BEEN DISCHARGED TO, OR ACCUMULATE IN, THE PUBLIC RIGHTS OF WAYS OF THE CITY OF LAS VEGAS AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE. THE REMOVAL OF SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.
2. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS. THE CONTRACTOR SHALL ADOPT AND FOLLOW THE BEST MANAGEMENT PRACTICES VEGAS VARY CONSTRUCTION SITE BEST MANAGEMENT PRACTICES MANUAL.
3. TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO THE STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVRI00000, SECTION III.A.5.
4. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS, AND ALL EXPOSED SEDIMENT, AND ALL EXPOSED EROSION CONTROL MEASURES. IF, ONCE OR MORE, THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS MAY APPLY; REFER TO THE STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVRI00000, SECTION III.A.12.
5. ACCUMULATED SEDIMENT IN BMPs SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED RAINFALL EVENT. WHEN THE STORMWATER RUNOFF EXCEEDS THE BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

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

1. IN THE EVENT THAT ANY UNFORESEEN CONDITIONS NOT COVERED BY THESE NOTES ARE ENCOUNTERED DURING GRADING OPERATIONS, THE OWNER/ENGINEER SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTION.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL NECESSARY CUTS AND FILLS WITHIN THE LIMITS OF THIS PROJECT AND TO RELATED OFF-SITE WORK, SUCH AS TO GENERATE THE DESIRED SLOPE, FINISH GRADIES AND SLOPES SHOWN.
3. CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ALL EXCAVATION, ADEQUATE SHORING SHALL BE DESIGNED AND PROVIDED BY THE CONTRACTOR TO PREVENT UNDERMINING OF ANY ADJACENT FEATURES OR FACILITIES AND/OR CAVING OF THE EXCAVATION.
4. THE CONTRACTOR IS WARNED THAT AN EARTHWORK BALANCE WAS NOT NEARLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR ANY ADDITIONAL MATERIAL REQUIRED OR LEFTOVER MATERIAL FOLLOWING EARTHWORK OPERATIONS BECOMES THE RESPONSIBILITY OF THE CONTRACTOR.
5. THE GRADING CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE OWNER TO PROVIDE FOR THE REQUIREMENTS OF THE PROJECT STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND ASSOCIATED PERMIT.
6. CONTRACTOR SHALL GRADE TO THE LINES AND ELEVATIONS SHOWN ON THE PLANS WITHIN THE FOLLOWING HORIZONTAL AND VERTICAL TOLERANCES AND DEGREES OF COMPACTION, IN THE AREAS INDICATED:

	HORIZONTAL/VERTICAL	COMPACTION
A. PAVEMENT AREA SUBGRADE	0.1"±	+0.0' TO -0.1'
B. ENGINEERED FILL	0.5"±	+0.1' TO -0.1'
7. REPORT COMPACTION TESTING WILL BE PERFORMED BY THE OWNER OR HIS REPRESENTATIVE.
8. ALL CUT AND FILL SLOPES SHALL BE PROTECTED UNTIL EFFECTIVE EROSION CONTROL HAS BEEN ESTABLISHED.
9. THE USE OF POTABLE WATER WITHOUT A SPECIAL PERMIT FOR BUILDING OR CONSTRUCTION PURPOSES INCLUDING CONSOLIDATION OF BACKFILL OR DUST CONTROL IS PROHIBITED. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR CONSTRUCTION WATER.
10. THE CONTRACTOR SHALL MAINTAIN THE STREETS, SIDEWALKS AND ALL OTHER PUBLIC RIGHT-OF-WAY IN A CLEAN, SAFE AND USABLE CONDITION. ALL SPILLS OF SOIL, ROCK OR CONSTRUCTION DEBRIS SHALL BE PROMPTLY REMOVED FROM THE PUBLICLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC SHALL BE MAINTAINED IN A CLEAN, SAFE AND USABLE CONDITION.
11. IN THE EVENT THAT ANY TEMPORARY CONSTRUCTION ITEM IS REQUIRED THAT IS NOT SHOWN ON THESE DRAWINGS, THE OWNER AGREES TO PROVIDE AND INSTALL SUCH ITEM AT HIS OWN EXPENSE AND AT THE DIRECTION OF THE CITY ENGINEER. TEMPORARY CONSTRUCTION INCLUDES DITCHES, BERMS, ROAD SIGNS AND BARRICADES, ETC.

REVISÉ 4/15/10

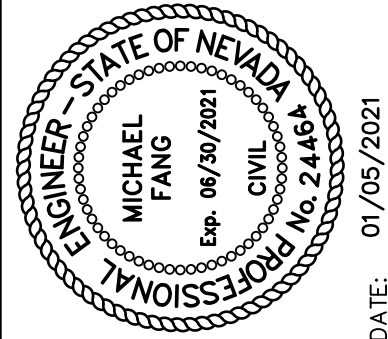
1. ALL CONSTRUCTION SIGNING, BARRICADING, AND TRAFFIC DELINEATION SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION.
2. THE STREET SIGN CONTRACTOR SHALL OBTAIN STREET NAMES AND BLOCK NUMBERING FROM THE PLANNING DEPARTMENT PRIOR TO CONSTRUCTION.
3. BEFORE ANY WORK IS STARTED IN THE RIGHT-OF-WAY, THE CONTRACTOR SHALL INSTALL ALL ADVANCED WARNING SIGNS FOR THE CONSTRUCTION ZONE. THE CONTRACTOR SHALL INSTALL TEMPORARY STOP SIGNS AT ALL NEW STREET ENDS AND AT ALL EXISTING STREETS WHERE WARRANTED IMMEDIATELY AFTER FIRST GRADING WORK IS ACCOMPLISHED, AND SHALL MAINTAIN SAID SIGNS UNTIL PERMANENT SIGNS ARE INSTALLED.
4. WHEN A DESIGNATED "SUGGESTED ROUTE TO SCHOOL" IS ENCLOSED UPON BY A CONSTRUCTION WORK ZONE AND PUBLIC WORKS STAFF IDENTIFIES A NEED FOR STUDENTS TO BE ASSISTED IN THE SAFE CROSSING THROUGH THAT WORK ZONE, THE CONTRACTOR SHALL PROVIDE AN ADVANCE GUARD TO PROTECT THE "CROSSING GUARD". THE GUARD SHALL BE PRESENT FOR THE FULL DURATION OF TIME THAT CHILDREN ARE LIKELY TO BE PRESENT.
5. IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY OBSTRUCTION, TEMPORARY REMOVAL OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS TO THE SATISFACTION OF THE CITY TRAFFIC ENGINEER.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL PERMANENT SIGNS SHOWN ON THE PLANS. ALL NEW SIGNS SHALL UTILIZE TYPE XI RETROREFLECTIVE SHEETING IN ACCORDANCE WITH CAUSHS 627 AND 716 AND HAVE AN ANTI-GRAFFITI PROTECTIVE OVERLAY FILM THAT IS A MATCHING COMPONENT TO, AND OF THE SAME MANUFACTURER AS THE RETROREFLECTIVE SHEETING TO WHICH IT IS APPLIED. STREET NAME SIGNS SHALL CONFORM IN THEIR ENTIRETY TO CURRENT CITY STANDARDS. ALL OTHER SIGNS SHALL BE SUBJECT TO THE CITY ENGINEER'S DISCRETION. ALL SIGN POSTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT CITY STANDARDS.
7. WHEN A PROPOSED STREET LIGHT STANDARD IS LOCATED WITHIN FIVE (5') FEET OF ANY PROPOSED SIGN SHOWN ON THE PLANS TO BE MOUNTED ON A SIGNPOST, THE SIGN SHALL BE MOUNTED ON THE STREET LIGHT STANDARD AND THE SIGNPOST SHALL BE ELIMINATED.
8. ALL PERMANENT TRAFFIC CONTROL DEVICES CALLED FOR HEREON SHALL BE IN PLACE AND IN FINAL POSITION PRIOR TO ALLOWING ANY PUBLIC TRAFFIC ONTO THE PROJECT. NO DEVICES SHALL BE MOVED HERE-UNDER, REGARDLESS OF THE STATUS OF COMPLETION OF PAVING OR OTHER OFF-SITE IMPROVEMENTS CALLED FOR BY THESE PLANS.
9. STREET SIGNS AND STOP SIGNS SHALL BE INSTALLED PER CITY STANDARD SPECIFICATIONS FOR PLACEMENT OF STREET NAME SIGNS.

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

2. DESIGN PROFESSIONAL AND CONTRACTOR SHALL VERIFY CITY'S LATEST LED FIXTURE SPECIFICATIONS AND APPROVED FIXTURES PER CLV WEBSITE, UNDER BUILDING AND SAFETY FORMS, PRIOR TO ORDERING MATERIALS.
3. NO DEVIATION OF STREET LIGHT, PULL BOX, CONDUITS, ETC., LOCATIONS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL OF THE TRAFFIC ENGINEER AND THE CITY ENGINEER. ANY DEVIATION FROM THE PLAN LOCATION WILL REQUIRE COMPLIANCE WITH SECTION 623 OF THE USS.
4. ALL EXISTING STREET LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION IN ACCORDANCE WITH SECTION 623 G.03.01 OF THE USS.
5. ALL EMPTY CONDUIT SHALL HAVE AT LEAST ONE GREEN NO. #8 AWG WIRE INSTALLED AS TRACER WIRE IN ACCORDANCE WITH SECTION 623 G.02.01 OF THE USS PRIOR TO BACKFILLING AND FINAL INSPECTION.
6. ANY STRUCTURE SUCH AS BLOCK WALLS, CHAIN LINK FENCES, RETAINING WALLS, ETC., SHALL HAVE A MINIMUM CLEARANCE IN COMPLIANCE WITH USD NO. 320A WHEN POLE IS INSTALLED BEHIND SIDEWALK, AND SHALL AT NO TIME COMPLETELY ENCLOSE THE STREET LIGHTING POLE.
7. AS-BUILT DRAWINGS SHALL BE SUPPLIED TO THE TRAFFIC ENGINEERING DEPARTMENT PRIOR TO THE START OF CONSTRUCTION. THE AS-BUILT DRAWING NEEDS TO BE STAMPED AS-BUILT AND SIGNED BY THE PREPARER.
8. SERVICE POINT SHALL BE COORDINATED WITH NV ENERGY, AND WHEREVER POSSIBLE, BE LOCATED NEAR THE CENTER OF THE CIRCUIT. SERVICE POINTS SHALL BE SHOWN ON THE PLANS.
9. WHEREVER THERE IS AN OVERHEAD UTILITY THAT MAY CONFLICT WITH THE INSTALLATION OF STREETLIGHTING CIRCUITS AND/OR POLES, THESE CONFLICTS MUST BE RESOLVED BETWEEN THE DEVELOPER AND THE UTILITIES INVOLVED BEFORE STREETLIGHT BASES ARE INSTALLED AT NO EXPENSE TO THE CITY OF LAS VEGAS.
10. THE CONTRACTOR SHALL FURNISH COMPLETE CONDUIT, WIRE, ETC. FROM SERVICE TO TRANSFORMERS AND CONTROL SYSTEMS IF REQUIRED ON THE PLANS.

REVISÉ 06/04/18 (LD VERSION)

THIS PROJECT IS LOCATED WITHIN A FEMA DESIGNATED FLOOD ZONE X PER FIRM PANEL 32003C2150E, DATED SEPTEMBER 27, 2002. A ZONE X IS DEFINED AS BEING OUTSIDE THE 100-YEAR FLOODPLAIN AND NOT LOCATED WITHIN A FEMA-DESIGNATED SPECIAL FLOOD HAZARD AREA.

[illegible][illegible][illegible]

PROJECT NO. 62025-206
DESIGN: LG/MF
DRAWN: AS
CHECK: LG/MF
PLOT DATE: 01-05-21
PLOT TIME: 09:24:13

GCW
ENGINEERS' SURVEYORS
PROJECTS: VAO 2025+ 208 VPM PRODUCTION VAO25+ 208201_JAN.DWG
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcsurveying.com
ALFONSO SANTO

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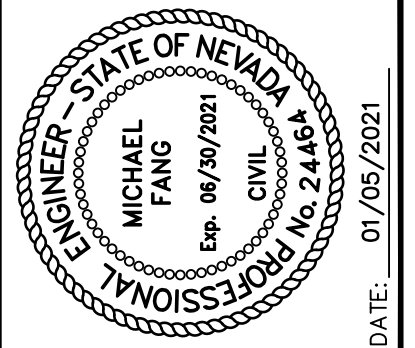
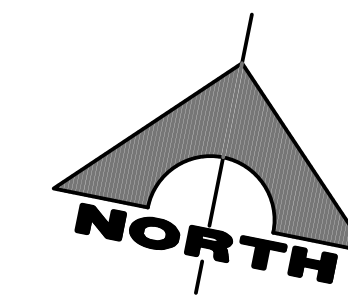
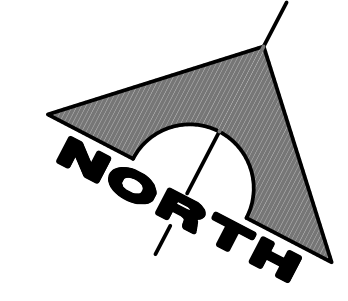
THE HOWARD HUGHES COMPANY, LLC	GENERAL NOTES
VILLAGE 25 SKY VISTA DRIVE IMPROVEMENTS (REDPOINT DRIVE TO KETTLE RIDGE DRIVE)	

DRAWING		

DRAWING

G3

3 OF 35 SHTS



GC
ENGINEERS[®] SURVEYORS

1555 S. RAINBOW BLVD.
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gcengineering.com

F: PRODUCTS (954) 242-2242 • 3D/VIDEO PRODUCTION (954) 242-2242 • info@gc.com

ALEXANDER, SANTIAGO

DRAWING		
HC1		
4 OF 35 SHTS		

SEE HC2 FOR LINE AND CURVE TABLES

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE
REFERENCE SYSTEM (NCRS), LAS VEGAS HIGH ELEVATION ZONE, NORTH AMERICAN
DATUM OF 1983; SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE
GREENWICH MERIDIAN.

LINEAR UNIT: US SURVEY FOOT (FTUS)
DATUM (REFERENCE FRAME): NAD 83 (2011) EPOCH 2010.00
SYSTEM: NEVADA COORDINATE REFERENCE SYSTEM (NCRS)
ZONE: LAS VEGAS HIGH ELEVATION ZONE

PROJECTION: TRANSVERSE MERCATOR
STANDARD PARALLEL (AND LATITUDE OF GRID ORIGIN): 36°15'00"N
LONGITUDE OF CENTRAL MERIDIAN: 114°58'00"W
NORTHING AT GRID ORIGIN: 400,000.00 M (1,312,333.3333 FTUS)
EASTING AT CENTRAL MERIDIAN: 300,000 M (984,250.0000 FTUS)
SCALE FACTOR ON CENTRAL MERIDIAN: 1.000135 (EXACT)

BM#	DESCRIPTION	NAVD 88 DATUM	NAVD 88 DATUM
CLV BM No. 7LV0934SW6	FIND RIVET AND PLATE IN TOP OF CURB SE CORNER OF DESERT MOON RD. AND SKY VISTA DR. T20S,R59E,S34	3318.31 (FEET)	1,011.422 (METERS)

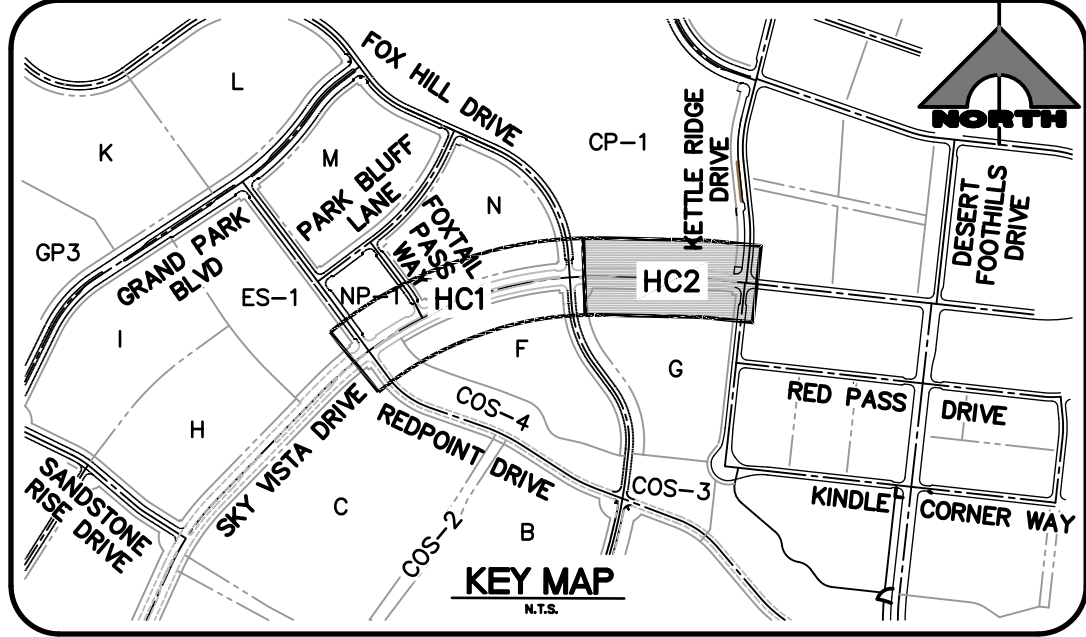
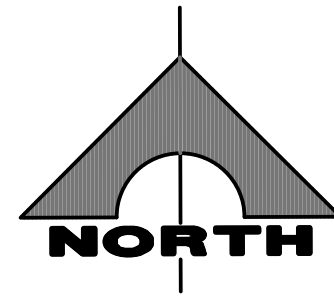
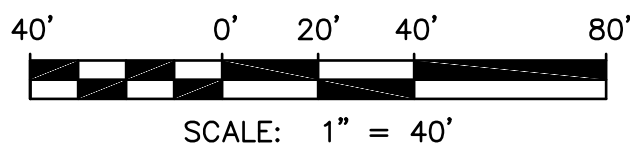
CLV#: 107V8310

MATCHLINE 447+00 SEE DWG HC1

VILLAGE 25
PARCEL CP-1
APN 137-22-301-004

VILLAGE 25
PARCEL G
APN 137-22-301-004

SKY VISTA DRIVE
(PUBLIC)
SCALE: HORIZ 1" = 40'



LINE TABLE		
LINE	LENGTH	BEARING
L1	10.47'	S5°16'25"E
L2	7.07'	N86°05'15"E
L3	0.35'	N5°16'25"W
L4	1.50'	N86°05'15"E
L5	7.50'	N86°05'15"E
L6	0.92'	S86°05'15"W
L7	1.70'	N2°11'50"W
L8	10.46'	S2°51'46"E
L9	320.98'	S88°46'37"E
L10	57.68'	S83°43'07"E
L11	2.66'	N5°16'25"W
L12	1.33'	S2°56'08"E
L13	38.59'	N88°46'37"W
L14	168.90'	N88°46'37"W
L15	7.68'	N83°43'07"W
L16	41.53'	N83°43'07"W
L17	190.46'	S88°46'37"E
L18	51.25'	S88°46'37"E
L19	3.53'	N5°16'25"W
L20	3.54'	S2°51'46"E
L21	474.80'	N88°46'37"W

CURVE TABLE					
CURVE	RADIUS	LENGTH	DELTA	TANGENT	
C1	2048.00'	108.55'	3°02'13"	54.29	
C2	300.00'	63.53'	12°06'01"	31.88	
C3	300.00'	47.34'	9°02'29"	23.72	
C4	30.00'	45.88'	87°36'57"	28.78	
C5	30.00'	46.93'	89°37'14"	29.80	
C6	2038.00'	17.60'	0°29'42"	8.80	
C7	2038.00'	29.55'	0°49'51"	14.78	
C8	8.90'	8.47'	54°32'27"	4.59	
C9	10.00'	8.67'	49°40'19"	4.63	
C10	2045.00'	608.44'	17°02'49"	306.48	
C11	1.50'	0.79'	30°02'15"	0.40	
C12	2062.75'	12.98'	0°21'38"	6.49	
C13	1.50'	3.93'	150°00'32"	5.60	
C14	2038.00'	28.83'	0°48'38"	14.41	
C15	1.50'	3.92'	149°49'47"	5.56	
C16	2055.25'	26.11'	0°43'41"	13.06	
C17	4.50'	2.37'	30°06'59"	1.21	
C18	2054.50'	1.97'	0°03'18"	0.99	
C19	4.50'	7.11'	90°33'26"	4.54	
C20	1.50'	2.34'	89°31'27"	1.49	
C21	0.50'	0.86'	99°02'23"	0.59	

CURVE TABLE					
CURVE	RADIUS	LENGTH	DELTA	TANGENT	
C22	30.00'	41.66'	79°33'46"	24.98	
C23	2038.00'	2.64'	0°04'27"	1.32	
C24	0.50'	0.79'	90°06'38"	0.50	
C25	24.50'	39.07'	91°21'40"	25.09	
C26	4.50'	7.07'	90°00'00"	4.50	
C27	1.50'	2.36'	90°00'00"	1.50	
C28	1.50'	2.36'	90°00'00"	1.50	
C29	4.50'	7.07'	90°00'00"	4.50	
C30	1.50'	2.79'	106°40'23"	2.01	
C31	40.19'	37.55'	53°31'53"	20.27	
C32	1.50'	2.83'	108°09'40"	2.07	
C33	24.50'	39.22'	91°42'55"	25.24	
C34	4.50'	7.13'	90°47'35"	4.56	
C35	1.50'	2.34'	89°17'14"	1.48	
C36	2033.50'	72.74'	2°02'58"	36.37	
C37	10.00'	8.59'	49°14'42"	4.58	
C38	10.00'	8.67'	49°40'21"	4.63	
C39	2040.50'	31.91'	0°53'46"	15.96	
C40	779.00'	70.94'	5°13'05"	35.50	
C41	1071.00'	176.84'	9°27'37"	88.62	
C42	10.00'	8.70'	49°52'03"	4.65	

CURVE TABLE					
CURVE	RADIUS	LENGTH	DELTA	TANGENT	
C43	10.00'	8.56'	49°03'06"	4.56	
C44	2.83'	8.89'	180°00'00"	INFINITY	
C45	1997.33'	150.04'	4°18'14"	75.05	
C46	300.00'	49.51'	9°27'23"	24.81	
C47	300.00'	66.83'	12°45'52"	33.56	
C48	2008.33'	739.76'	21°06'17"	374.12	
C49	1.50'	2.37'	90°29'18"	1.51	
C50	1.50'	2.34'	89°30'40"	1.49	
C51	2002.67'	138.65'	3°58'01"	69.35	
C52	300.00'	66.86'	12°46'12"	33.57	
C53	300.00'	49.49'	9°27'08"	24.80	
C54	1991.67'	744.98'	21°25'53"	376.90	
C55	1.50'	2.38'	90°48'18"	1.52	
C56	1996.00'	116.83'	3°21'13"	58.43	
C57	300.00'	57.09'	10°54'10"	28.63	
C58	300.00'	57.09'	10°54'10"	28.63	
C59	812.67'	74.01'	5°13'05"	37.03	
C60	1037.33'	186.05'	10°16'34"	93.27	
C61	4.75'	10.46'	126°09'37"	9.35	
C62	1.50'	2.34'	89°11'40"	1.48	
C63	1991.67'	116.57'	3°21'13"	58.30	

CURVE TABLE					
CURVE	RADIUS	LENGTH	DELTA	TANGENT	
C64	1388.33'	130.94'	5°24'14"	65.52	
C65	1086.67'	102.49'	5°24'14"	51.28	
C66	1086.67'	102.49'	5°24'14"	51.28	
C67	889.00'	48.72'	3°08'23"	24.36	
C68	911.00'	114.52'	7°12'09"	57.33	
C69	1962.00'	983.56'	28°43'21"	502.34	
C70	1.50'	2.37'	90°29'42"	1.51	
C71	4.50'	7.02'	89°24'59"	4.45	
C72	0.50'	0.94'	107°12'01"	0.68	
C73	40.00'	36.68'	52°32'34"	19.74	
C74	0.50'	0.98'	112°07'05"	0.74	
C75	24.50'	37.69'	88°08'19"	23.72	
C76	1.50'	2.65'	101°17'36"	1.83	
C77	30.00'	37.15'	70°57'11"	21.38	
C78	1.50'	2.58'	98°36'18"	1.74	
C79	24.50'	38.12'	89°08'55"	24.14	
C80	4.50'	7.00'	89°10'16"	4.44	
C81	1.50'	2.38'	90°44'23"	1.52	
C82	1962.00'	114.58'	3°20'46"	57.31	
C83	929.67'	50.94'	3°08'23"	25.48	
C84	870.33'	97.01'	6°23'12"	48.56	

BASIS OF BEARING AND COORDINATES

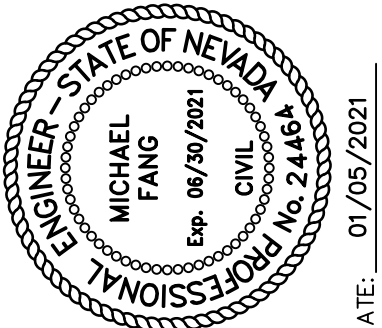
GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS HIGH ELEVATION ZONE, NORTH AMERICAN DATUM OF 1983, SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

LINEAR UNIT: US SURVEY FOOT (FTUS)
DATUM (REFERENCE FRAME): NAD 83 (2011) EPOCH 2010.00
SYSTEM: NEVADA COORDINATE REFERENCE SYSTEM (NCRS)
ZONE: LAS VEGAS HIGH ELEVATION ZONE
PROJECTION: TRANSVERSE MERCATOR
STANDARD PARALLEL (AND LATITUDE OF GRID ORIGIN): 36°15'00"N
LONGITUDE OF CENTRAL MERIDIAN: 114°58'00"W
NORTHING AT GRID ORIGIN: 400,000.00 M (1,312,333.3333 FTUS)
EASTING AT CENTRAL MERIDIAN: 300,000 M (984,250.0000 FTUS)
SCALE FACTOR ON CENTRAL MERIDIAN: 1.000135 (EXACT)

- NOTES:
- ALL DISTANCES AND BEARINGS SHOWN HEREON ARE PROJECTED (GRID) VALUES BASED ON THE PRECEDING PROJECTION DEFINITION. THE PROJECTION WAS DEFINED SUCH THAT PROJECTED (GRID) DISTANCES ARE EQUIVALENT TO "GROUND" DISTANCES IN THE PROJECT AREA.
 - GRID BEARINGS SHOWN HEREON (OR IMPLIED BY GRID COORDINATES) DO NOT EQUAL GEODETIC BEARINGS DUE TO MERIDIAN CONVERGENCE.

BENCHMARK

BM#	DESCRIPTION	NAVD 88 DATUM	NAVD 88 DATUM
CLV BM No. 7LV0934SW6	FIND RIVET AND PLATE IN TOP OF CURB SE CORNER OF DESERT MOON RD. AND SKY VISTA DR. T20S,R59E,S34	3318.31 (FEET)	1,011.422 (METERS)



PROJECT NO.
62025-206
DESIGN: LG/MF
DRAWN: AS
CHECK: LG/MF
PLOT DATE: 01-05-21
PLOT TIME: 09:24:56

GCV
ENGINEERS \ SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcvengineering.com
A:\PROJECTS\600\602025-206\DWG\PRODUCTION\602025-206G03_HCDWG

THE HOWARD HUGHES COMPANY, LLC
VILLAGE 25 SKY VISTA DRIVE IMPROVEMENTS
(REDPOINT DRIVE TO KETTLE RIDGE DRIVE)
HORIZONTAL CONTROL 2

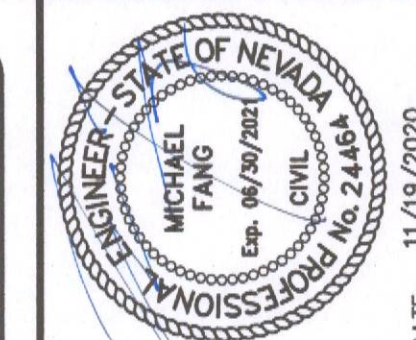
DRAWING

HC2

5 OF 35 SHTS

L#: L20-00376

CLV#: 107VB310

[illegible]

PROJECT NO.
62025-206

DESIGN: LG/MF
DRAWN: AS
CHECK: LG/MF
PLOT DATE: 11-19-20
PLOT TIME: 11:43:20

GCV
ENGINEERS & SURVEYORS

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gcvengineering.com

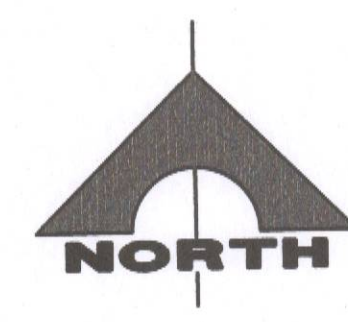
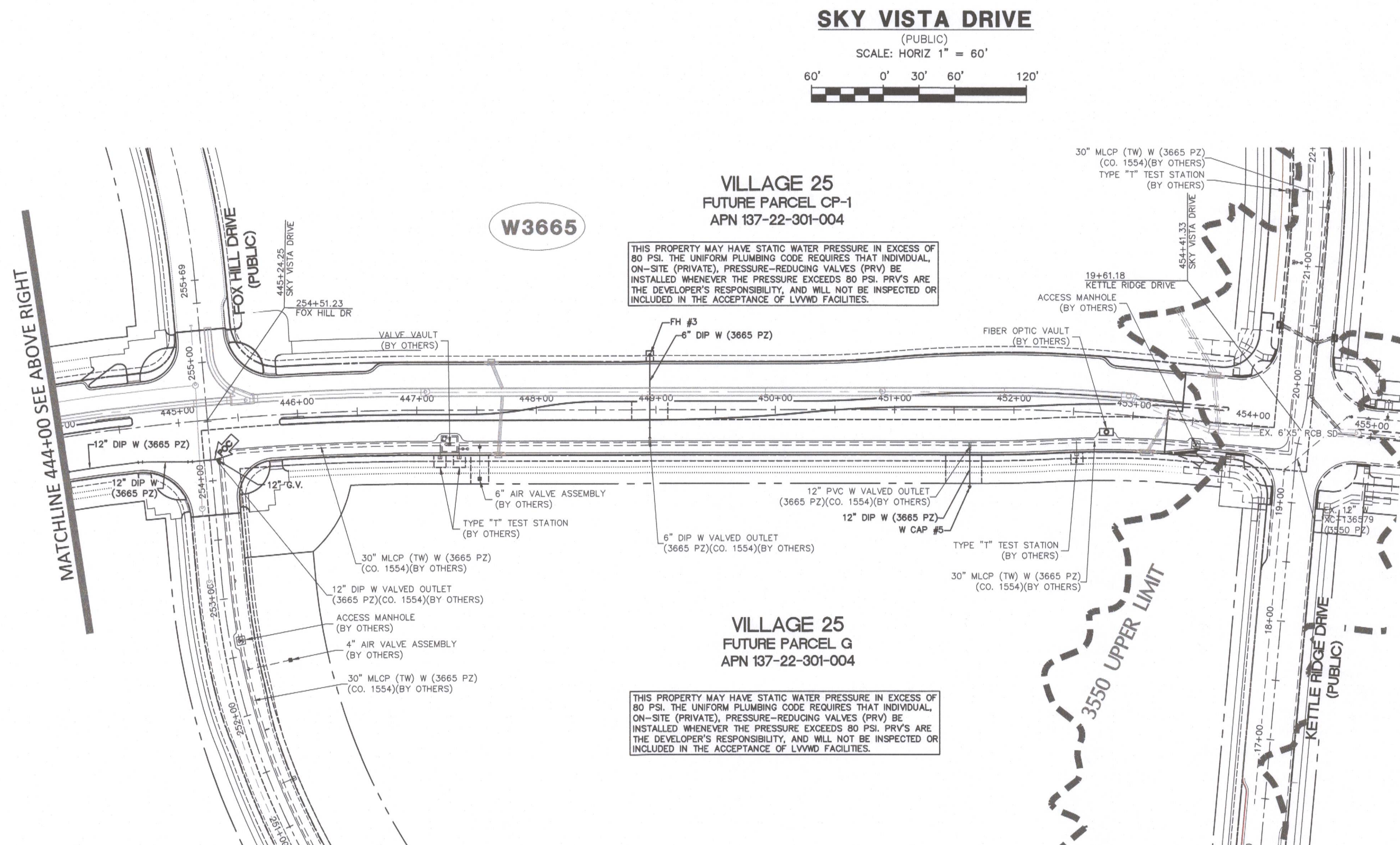
A PRODUCT OF GECO (202)25-2041/VIDEO PRODUCTION (202)25-2062/31 JUL 1990

THE HOWARD HUGHES COMPANY, LLC	
VILLAGE 25 SKY VISTA DRIVE IMPROVEMENTS (REDPOINT DRIVE TO KETTLE RIDGE DRIVE)	
MASTER UTILITY PLAN - WATER	

DRAWING

MU1

6 OF 35 SHTS



SOUTHWEST GAS APPROVAL

AMANDA HENDERSON	2020AGH35545	10/05/2020
SOUTHWEST GAS CORPORATION	SWG UID	DATE

CONDITIONAL APPROVAL OF VALVED OUTLET (6" AND LARGER)

THE WATER PLANS SHOW ONE OR MORE VALVED OUTLETS EXTENDING OUT OF PAVED AREAS. INSTALLATION OF THESE OUTLETS IS ACCEPTABLE. HOWEVER, IF THE OUTLETS ARE INCORRECTLY LOCATED OR NOT USED FOR ANY REASON WHEN THE PROPERTY IS ACTUALLY DEVELOPED, THE DEVELOPER SHALL ABANDON THE OUTLETS AT THE CONNECTION TO THE ACTIVE MAIN IN ACCORDANCE WITH LVVWD STANDARDS AND AT THE DEVELOPER'S EXPENSE. APPROVAL OF THE VALVED OUTLET DOES NOT PROVIDE OR IMPLY A WATER COMMITMENT.

ADDITIONAL WATER NOTES

1. THIS PROJECT PROVIDES FOR THE INSTALLATION OF OFF-SITE WATER MAINS ONLY, AND DOES NOT PROVIDE OR IMPLY ANY WATER COMMITMENT.
2. PROTECT IN PLACE AND ADJUST LVVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.
3. LVVWD CANNOT GUARANTEE A TIGHTWATER SHUTDOWN WHERE CONNECTIONS OR REPAIRS TO EXISTING FACILITIES ARE REQUIRED, THE CONTRACTOR SHALL ENSURE ALL LABOR AND MATERIALS REMAIN ON SITE UNTIL THE REMAINING WATER, COORDINATION WITH INSPECTION DIVISION MUST TAKE PLACE PRIOR TO ANY TRIAL SHUTDOWN. CONTRACTOR TO INSTALL TEMPORARY SERVICE TO ENSURE PROPER SHUTDOWN IN THE EVENT NO OTHER APPURTENANCES ARE AVAILABLE.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. 136980 FIRST APPROVAL DATE: 12/3/2020

LVVWD APPROVED FIRE FLOW: TOTAL 1,500 GPM / ON-SITE N/A GPM

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

Call
811

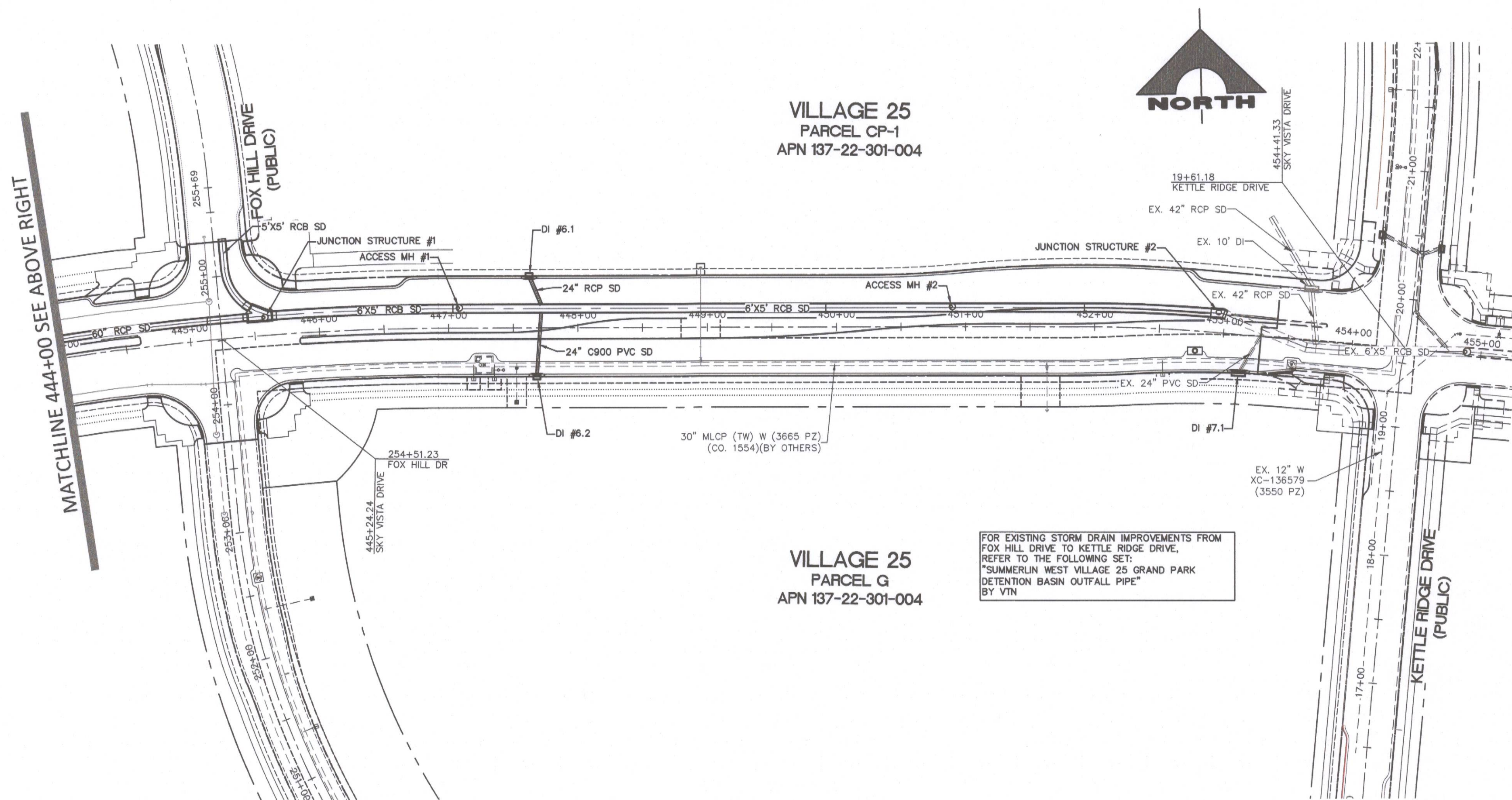
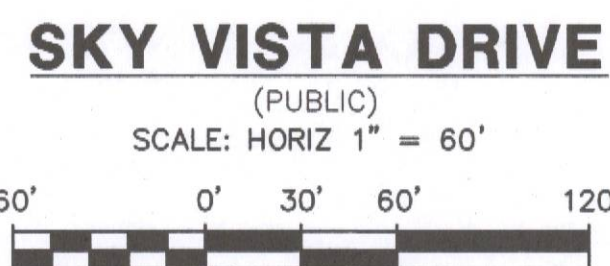
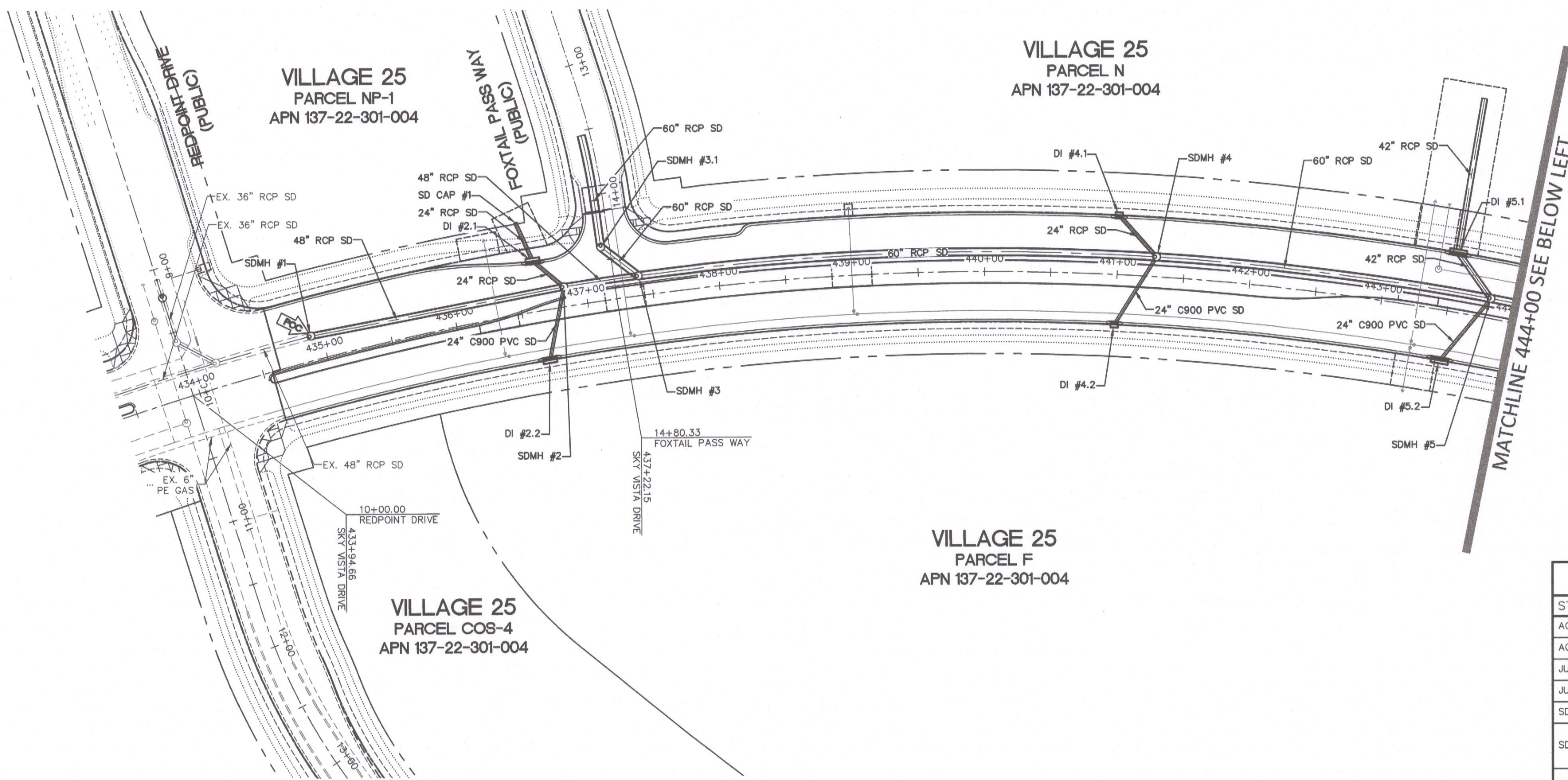
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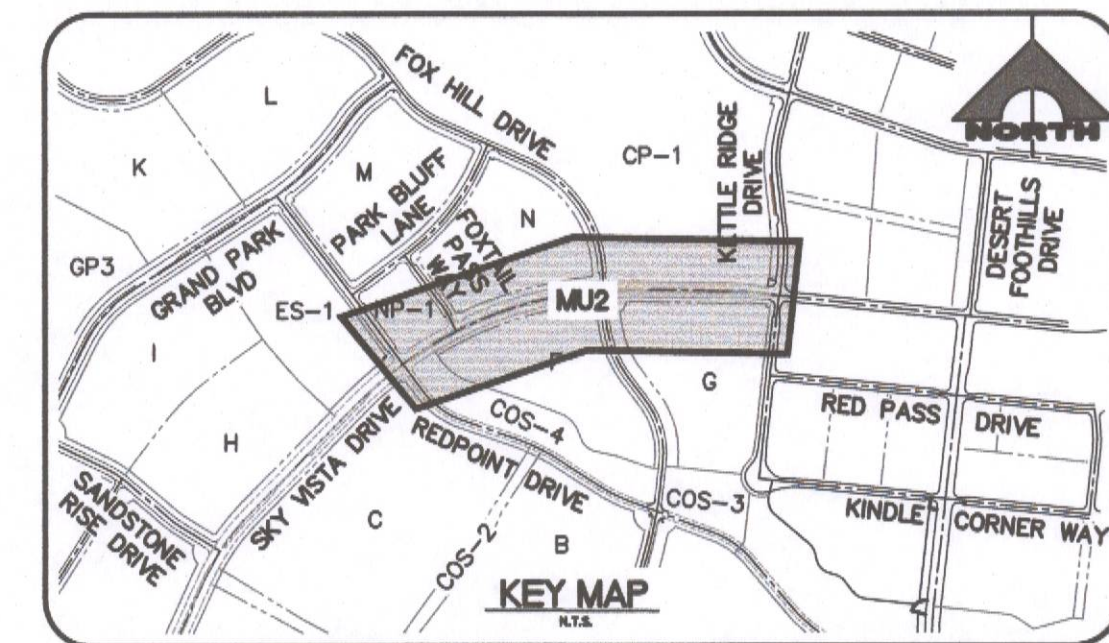
FAST
Call before you
Underground
1-702-432-5300
FREEWAY AND ARTERIAL
SYSTEM OF TRANSPORTATION

L#: L20-00376

CLV#: 107V831



FOR EXISTING STORM DRAIN IMPROVEMENTS FROM FOX HILL DRIVE TO KETTLE RIDGE DRIVE, REFER TO THE FOLLOWING SET: "SUMMERLIN WEST VILLAGE 25 GRAND PARK DETENTION BASIN OUTFALL PIPE" BY VTN



STORM DRAIN MANHOLE SCHEDULE									
STRUCTURE	SIZE & TYPE	STREET NAME	STATION & OFFSET	RIM	INV IN	INV OUT	NORTHING	EASTING	
ACCESS MH #1	48" TYPE I	SKY VISTA DRIVE	447+08.44, 15.59' LT	3485.10			1291246.3895	868923.7569	
ACCESS MH #2	48" TYPE I	SKY VISTA DRIVE	450+89.76, 15.59' LT	3454.22			1291238.2500	869304.9877	
JUNCTION STRUCTURE #1	48"	SKY VISTA DRIVE	445+58.66, 14.01' LT	3491.03			1291242.7476	868772.9818	
JUNCTION STRUCTURE #2	48"	SKY VISTA DRIVE	452+94.93, 15.99' LT	3444.48			1291229.8018	869511.2718	
SDMH #1	60" TYPE-II SD	SKY VISTA DRIVE	434+91.93, 18.42' LT	3538.42		48" RCP, INV: 3526.87	1290914.8047	867762.1611	
SDMH #2	60" TYPE-II SD	SKY VISTA DRIVE	436+84.28, 15.00' LT	3534.58	48" RCP, INV: 3520.08 24" PVC, INV: 3520.08	48" RCP, INV: 3520.08	1291010.9393	867930.5687	
SDMH #3	60" TYPE-II SD	SKY VISTA DRIVE	437+40.55, 15.00' LT	3533.02	48" RCP, INV: 3518.95 60" RCP, INV: 3518.95	60" RCP, INV: 3518.95	1291036.8255	867981.0081	
SDMH #3.1	60" TYPE-II SD	FOXTAIL PASS WAY	14+39.92, 6.50' RT	3534.65	60" RCP, INV: 3520.02	60" RCP, INV: 3520.02	1291048.2473	867947.1443	
SDMH #4	60" TYPE-II SD	SKY VISTA DRIVE	441+28.87, 15.00' LT	3511.06	60" RCP, INV: 3495.05 24" RCP, INV: 3495.05 24" PVC, INV: 3495.05	60" RCP, INV: 3495.05	1291175.5317	868346.1707	
SDMH #5	60" TYPE-II SD	SKY VISTA DRIVE	443+81.04, 15.00' LT	3495.03	60" RCP, INV: 3483.00 42" RCP, INV: 3483.00 24" PVC, INV: 3483.00	60" RCP, INV: 3483.00	1291226.6913	868594.8531	

STORM DRAIN DROP INLET SCHEDULE									
STRUCTURE	SIZE & TYPE	STREET NAME	STATION & OFFSET	RIM	INV IN	INV OUT	NORTHING	EASTING	
DI #2.1	10.0' TYPE "CM2"	SKY VISTA DRIVE	436+64.62, 38.31' LT	3535.39	24" RCP, INV: 3525.89	24" RCP, INV: 3525.89	1291022.0405	867901.9869	
DI #2.2	10.0' TYPE "CM2"	SKY VISTA DRIVE	436+64.88, 38.00' RT	3534.21		24" PVC, INV: 3524.68	1290955.1223	867938.6630	
DI #4.1	5.0' TYPE "CM2"	SKY VISTA DRIVE	440+99.53, 45.00' LT	3513.03		24" RCP, INV: 3504.65	1291196.3807	868309.3996	
DI #4.2	5.0' TYPE "CM2"	SKY VISTA DRIVE	440+99.53, 38.00' RT	3513.18		24" PVC, INV: 3503.36	1291116.6270	868332.3853	
DI #5.1	12.5' TYPE "CM2"	SKY VISTA DRIVE	443+50.89, 45.00' LT	3496.06	42" RCP, INV: 3487.11	42" RCP, INV: 3487.11	1291251.8708	868560.1752	
DI #5.2	12.5' TYPE "CM2"	SKY VISTA DRIVE	443+50.89, 38.00' RT	3496.21		24" PVC, INV: 3486.47	1291169.8649	868572.9828	
DI #6.1	5.0' TYPE "CM2"	SKY VISTA DRIVE	447+62.31, 40.50' LT	3481.55		24" RCP, INV: 3472.95	1291270.1424	868978.1473	
DI #6.2	5.0' TYPE "CM2"	SKY VISTA DRIVE	447+68.31, 38.00' RT	3481.20		24" PVC, INV: 3476.31	1291191.5321	868982.4737	
DI #7.1	10.0' TYPE "CM2"	SKY VISTA DRIVE	453+14.12, 30.03' RT	3443.16		24" PVC, INV: 3428.57	1291181.9618	869525.3530	

SOUTHWEST GAS APPROVAL
AMANDA HENDERSON 2020AGH35545 10/05/2020
SOUTHWEST GAS CORPORATION SWG UID DATE

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 136980 FIRST APPROVAL DATE: 12/3/2020
LVWD APPROVED FIRE FLOW: TOTAL 1,500 GPM / ON-SITE N/A GPM

Call before you Dig
Avoid hitting overhead utility lines. It's costly.

1-800-227-2800

FAST
Call before you UnderGround
1-702-432-6300
PREWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

CALL BEFORE YOU DO OVERHEAD
AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.

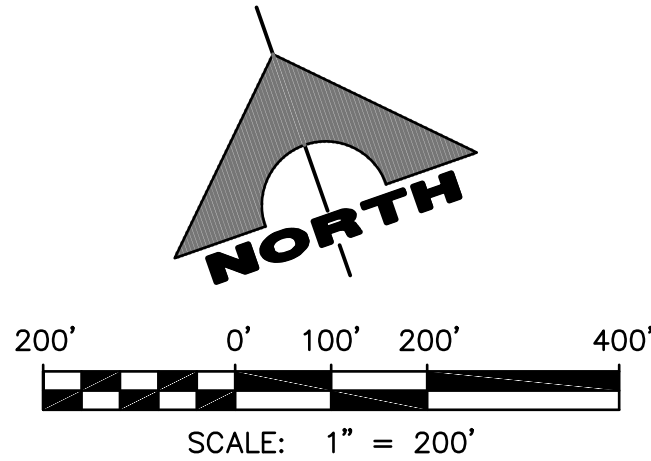
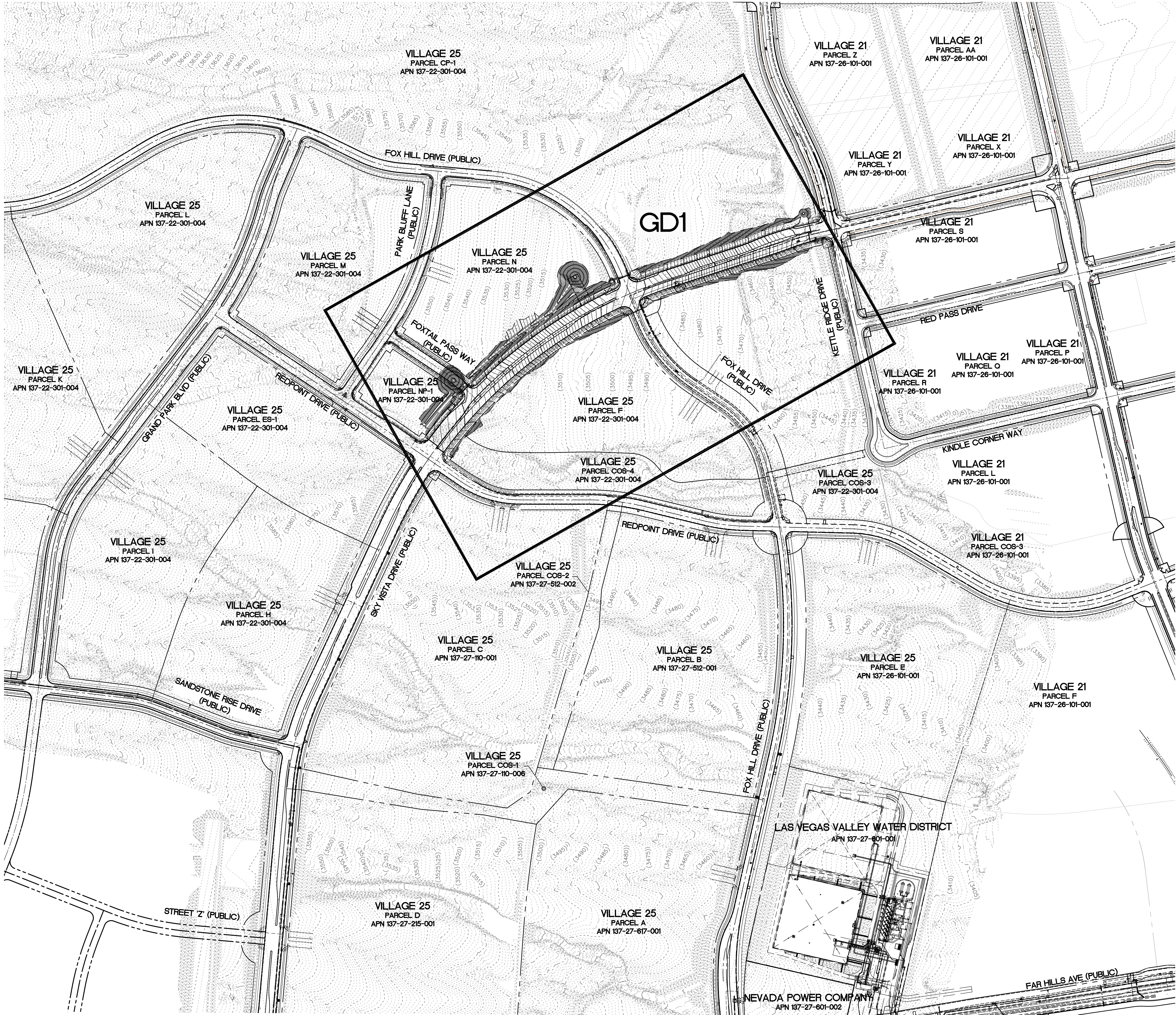
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PROJECT NO. 62025-206
DESIGN: LG/AF
DRAWN: AS
CHECK: LG/AF
PLOT DATE: 11-19-20
PLOT TIME: 11:44:42

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

THE HOWARD HUGHES COMPANY, LLC
VILLAGE 25 SKY VISTA DRIVE IMPROVEMENTS
(REDPOINT DRIVE TO KETTLE RIDGE DRIVE)
MASTER UTILITY PLAN - STORM DRAIN

DRAWING
MU2
7 OF 35 SHTS



OFF-SITE FLOOD CONTROL NOTE
ALL OFF-SITE INTERIM FLOOD CONTROL FACILITIES SUCH AS, BUT NOT LIMITED TO, BERMS/DITCHES AND TEMPORARY SUMPS ARE PRIVATELY OWNED AND ARE TO BE PRIVATELY MAINTAINED BY THE HOWARD HUGHES COMPANY.

BASIS OF BEARING AND COORDINATES
GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS HIGH ELEVATION ZONE, NORTH AMERICAN DATUM OF 1983, SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.
LINEAR UNIT: US SURVEY FOOT (FTUS)
DATUM (REFERENCE FRAME): NAD 83 (2011) EPOCH 2010.00
SYSTEM: NEVADA COORDINATE REFERENCE SYSTEM (NCRS)
ZONE: LAS VEGAS HIGH ELEVATION ZONE
PROJECTION: TRANSVERSE MERCATOR
STANDARD PARALLEL (AND LATITUDE OF GRID ORIGIN): 36°15'00"N
LONGITUDE OF CENTRAL MERIDIAN: 114°58'00"W
NORTHING AT GRID ORIGIN: 400,000.00 M (1,312,333.3333 FTUS)
EASTING AT CENTRAL MERIDIAN: 300,000 M (984,250.0000 FTUS)
SCALE FACTOR ON CENTRAL MERIDIAN: 1.000135 (EXACT)
NOTES:
1. ALL DISTANCES AND BEARINGS SHOWN HEREON ARE PROJECTED (GRID) VALUES BASED ON THE PRECEDING PROJECTION DEFINITION. THE PROJECTION WAS DEFINED SUCH THAT PROJECTED (GRID) DISTANCES ARE EQUIVALENT TO "GROUND" DISTANCES IN THE PROJECT AREA.
2. GRID BEARINGS SHOWN HEREON (OR IMPLIED BY GRID COORDINATES) DO NOT EQUAL GEODETIC BEARINGS DUE TO MERIDIAN CONVERGENCE.

BENCHMARK			
BM#	DESCRIPTION	NAVD 88 DATUM (FEET)	NAVD 88 DATUM (METERS)
CLV BM No. 7LV0934SW6	FIND RIVET AND PLATE IN TOP OF CURB SE CORNER OF DESERT MOON RD. AND SKY VISTA DR. T20S,R59E,S34	3318.31	1,011.422

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Avoid cutting underground utility lines. It's costly.

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

CALL BEFORE YOU DO OVERHEAD
AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.

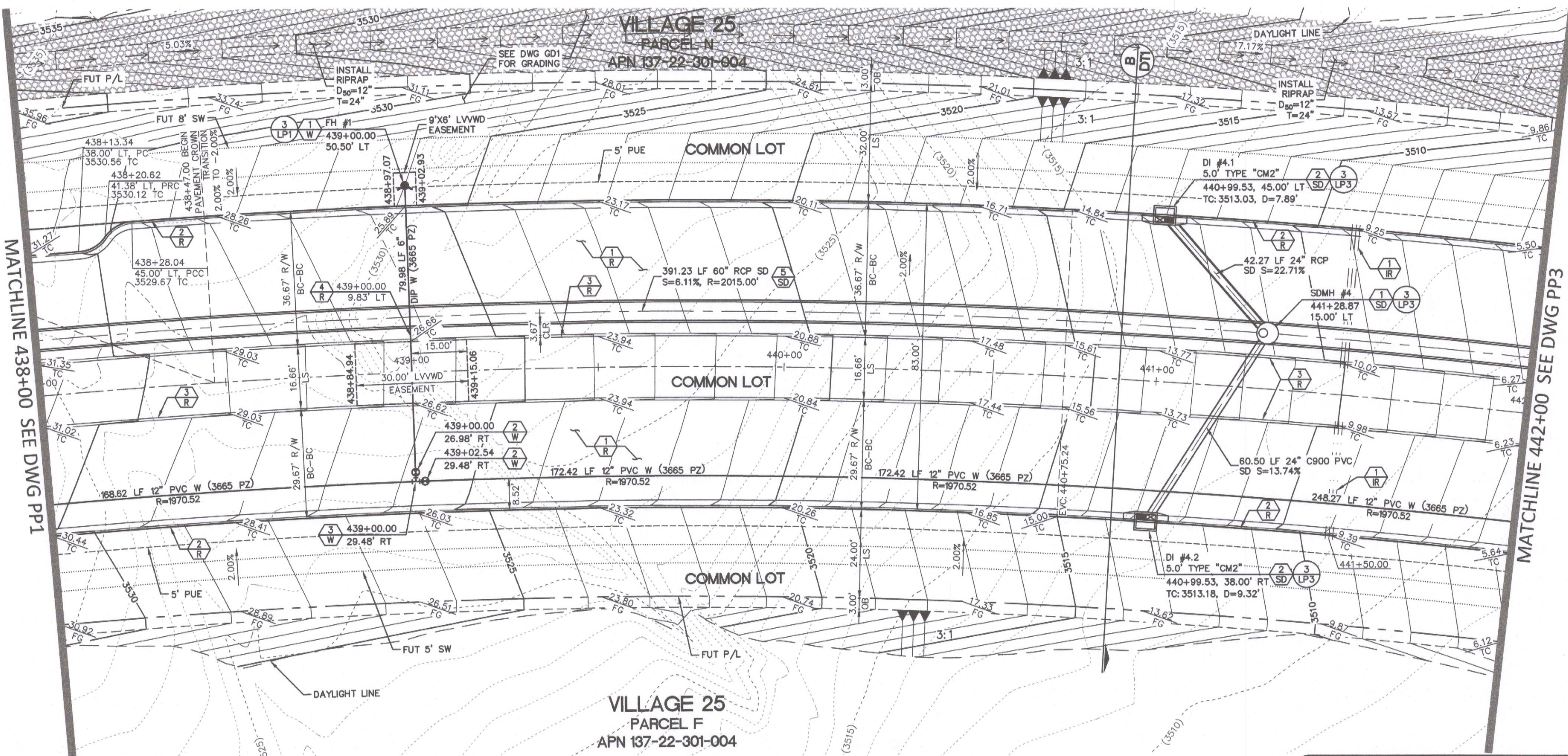
PROJECT NO. 62025-206
DESIGN: LG/MF
DRAWN: AS
CHECK: LG/MF
PLOT DATE: 01-05-21
PLOT TIME: 09:30:32
ALEXANDER SANTAGO

THE HOWARD HUGHES COMPANY, LLC
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gowengineering.com

VILLAGE 25 SKY VISTA DRIVE IMPROVEMENTS
(REDPOINT DRIVE TO KETTLE RIDGE DRIVE)

MASTER GRADING PLAN

DRAWING
MG
9 OF 35 SHTS



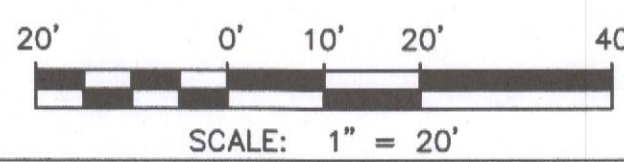
MATCHLINE 438+00 SEE DWG PP1

MATCHLINE 442+00 SEE DWG PP3

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.

SKY VISTA DRIVE
(PUBLIC)

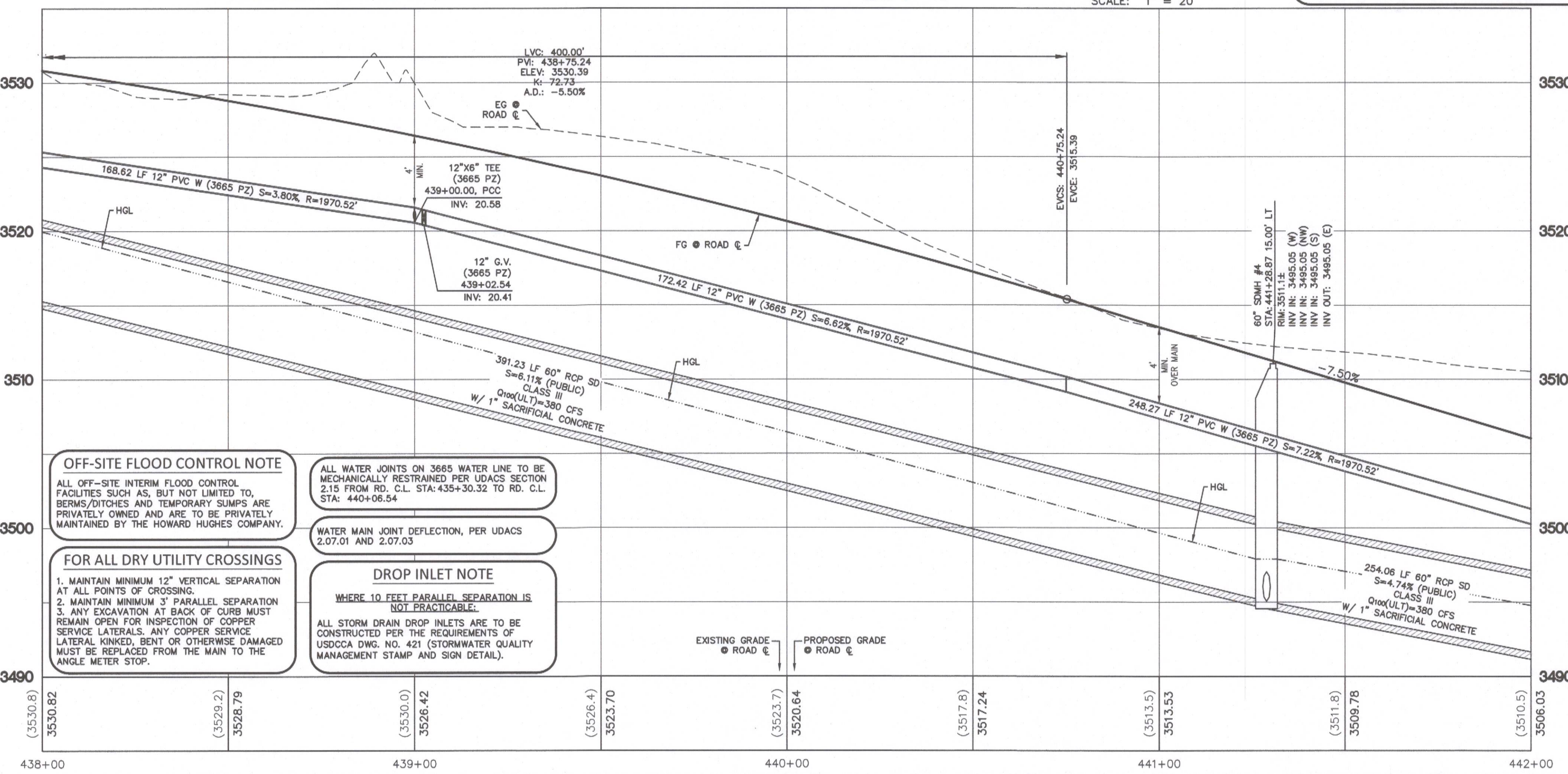
SCALE: HORIZ 1" = 20'
VERT. 1" = 5'



APPROVED FOR CONSTRUCTION

DISHARDI
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. 136980 FIRST APPROVAL DATE: 12/3/2020
LVWD APPROVED FIRE FLOW: TOTAL 1,500 GPM / ON-SITE N/A GPM



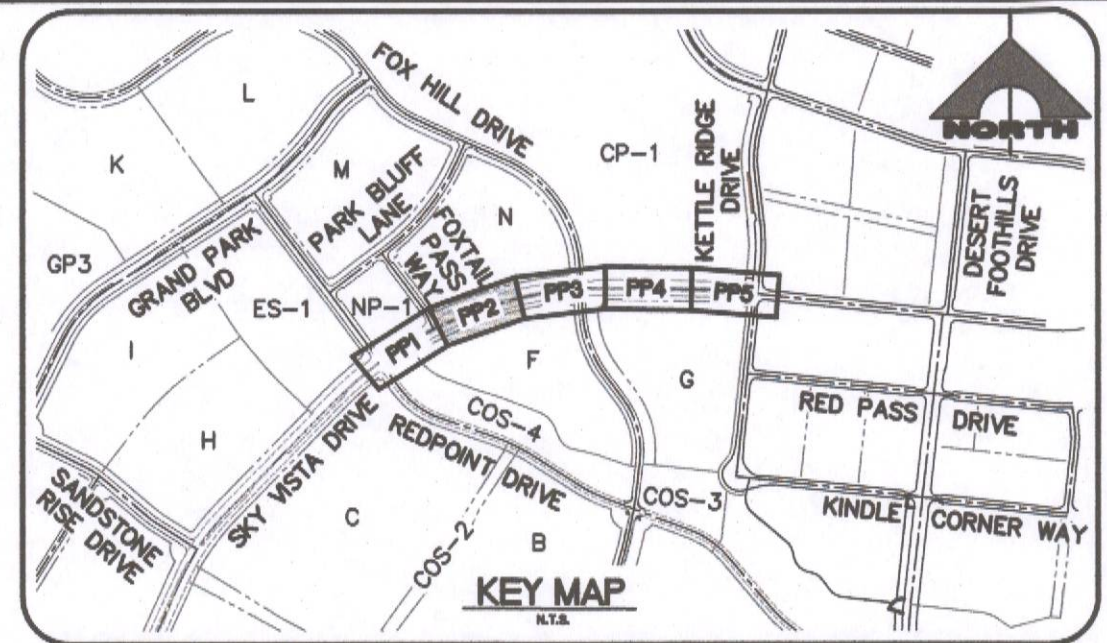
OFF-SITE FLOOD CONTROL NOTE
ALL OFF-SITE INTERIM FLOOD CONTROL FACILITIES SUCH AS, BUT NOT LIMITED TO, BERMS/DITCHES AND TEMPORARY SUMPS ARE PRIVATELY OWNED AND ARE TO BE PRIVATELY MAINTAINED BY THE HOWARD HUGHES COMPANY.

FOR ALL DRY UTILITY CROSSINGS
1. MAINTAIN MINIMUM 12" VERTICAL SEPARATION AT ALL POINTS OF CROSSING.
2. MAINTAIN MINIMUM 3" PARALLEL SEPARATION
3. ANY EXCAVATION AT BACK OF CURB MUST REMAIN OPEN FOR INSPECTION OF COPPER SERVICE LATERALS. ANY COPPER SERVICE LATERAL KINKED, BENT OR OTHERWISE DAMAGED MUST BE REPLACED FROM THE MAIN TO THE ANGLE METER STOP.

ALL WATER JOINTS ON 3665 WATER LINE TO BE MECHANICALLY RESTRAINED PER UDACS SECTION 2.15 FROM RD. C.L. STA: 435+30.32 TO RD. C.L. STA: 440+06.54

WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03

DROP INLET NOTE
WHERE 10 FEET PARALLEL SEPARATION IS NOT PRACTICABLE:
ALL STORM DRAIN DROP INLETS ARE TO BE CONSTRUCTED PER THE REQUIREMENTS OF USDOCA DWG. NO. 421 (STORMWATER QUALITY MANAGEMENT STAMP AND SIGN DETAIL).



- PROTECTION CONSTRUCTION NOTES**
- EXISTING PAVEMENT, PROTECT IN PLACE
 - EXISTING CURB/GUTTER, PROTECT IN PLACE
 - EXISTING PULLBOX, ADJUST TO FINISH GRADE
 - EXISTING TEST STATION, ADJUST TO FINISH GRADE & RELOCATE TO BEHIND CURB IF NECESSARY.
 - EXISTING BLOW-OFF, ADJUST TO FINISH GRADE PER UDACS PLT. NO. 37
 - EXISTING AVAL, ADJUST TO FINISH GRADE PER UDACS PLT. NO. 38
 - EXISTING GATE VALVE, ADJUST TO FINISH GRADE PER UDACS PLT. NO. 39
 - EXISTING WATER VAULT MH, ADJUST TO FINISH GRADE PER DETAIL 4 & 8 DWG. DT4
 - EXISTING SDMH, ADJUST TO FINISH GRADE
 - EXISTING WATER FIBER OPTIC VAULT PROTECT IN PLACE. ADJUST MANHOLE TO FINISH GRADE PER DETAIL 4 & 8 DWG. DT4
 - EXISTING WATER ACCESS MANHOLE PROTECT IN PLACE. RAISE TO FINAL PAVEMENT GRADE PER DETAIL 4 & 8 DWG. DT4

- ROADWAY CONSTRUCTION NOTES**
- INSTALL A.C. PAVEMENT PER STREET SECTIONS, SEE DWG. DT1
 - INSTALL "L" TYPE CURB & GUTTER, SEE SUMMERLIN STD DWG. S-47
 - INSTALL "A" TYPE ISLAND CURB, SEE SUMMERLIN STD DWG. S-50
 - INSTALL CURB TRANSITION PER DETAIL 5 DWG. DT4
 - CONSTRUCT SIDEWALK RAMP PER USD DWG. NO. 235 (CASE II) AND DETAILS ON DWG. DT2 & DT3
 - INSTALL "L" TYPE ISLAND CURB, SEE SUMMERLIN STD DWG. S-50

- WATER CONSTRUCTION NOTES**
- INSTALL FIRE HYDRANT & ASSEMBLY PER UDACS PLT. NO. 40. FOR "DEEP" FIRE HYDRANTS SEE UDACS PL. NO. 41
 - INSTALL GATE VALVE AND BOX PER UDACS PLT. NO. 30 AND 39
 - INSTALL TEE W/ MECHANICALLY RESTRAINED JOINTS (SEE PLAN FOR ANGLE)
 - INSTALL CROSS W/ MECHANICALLY RESTRAINED JOINTS
 - INSTALL CAP W/ 2" BLOW-OFF ASSEMBLY PER UDACS PLT. NO. 36 W/ MECHANICALLY RESTRAINED JOINTS
 - REMOVE CAP AND BLOWOFF PER UDACS PLT. NO. 36 AND CONNECT TO EXISTING WATER LINE
 - INSTALL VERTICAL BEND W/ MECHANICALLY RESTRAINED JOINTS (SEE PROFILE FOR ANGLE)

- SEWER CONSTRUCTION NOTES**
- INSTALL SEWER MANHOLE PER DCSWCS SD-1 & SD-3 WITH SINGLE 24" LID
 - STUB AND CAP SEWER PIPE PER DETAIL 1, DWG. DT4
 - REMOVE PLUG & CONNECT TO SEWER LINE (CONTRACTOR TO VERIFY SIZE, INVERT, AND LOCATION OF EX. SEWER PRIOR TO CONSTRUCTION)
 - INSTALL 48" STANDARD MANHOLE (PER DCSWCS SD-1, SD-3, SD-4, SD-5)
 - W/ CORROSION PROTECTION PER DCSWCS 3.16.8

- STORM DRAIN CONSTRUCTION NOTES**
- INSTALL TYPE II-SD MANHOLE PER USD DWG. NO. 405.2
 - INSTALL TYPE "CM2" DROP INLET PER USD DWG. NO. 412.1 AND 421
 - INSTALL TEMPORARY PLUG AND CAP
 - REMOVE PLUG & CONNECT TO EX. STORM DRAIN TO NEAREST RCP JOINT OR W/ CONCRETE COLLAR PER DETAIL 3 ON DWG. DT4 (CONTRACTOR TO VERIFY SIZE, INVERT, AND LOCATION OF EX. STORM DRAIN PRIOR TO CONSTRUCTION)
 - INSTALL 1" SACRIFICIAL CONCRETE, MIN. 6000 PSI
 - RCP TO BE CONSTRUCTED WITH WATER TIGHT JOINTS, ELASTOMERIC JOINT SEALANT, AND 4-INCHES OF SLURRY ENCASEMENT
 - LVWD APPROVED ELASTOMERIC JOINT SEALANT AT ALL MANHOLE JOINTS. SDMH TO BE INSTALLED WITH WATER TIGHT JOINTS.
 - INSTALL TYPICAL TYPE I ACCESS MANHOLE IN RCB PER USD DWG. NO. 403.1

IRRIGATION CONSTRUCTION NOTES

- BANK "A": 1-8" & 2-4" SCH 40 PVC. PER DETAIL 2 DWG. DT4

BASIS OF BEARING AND COORDINATES
GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS). LAS VEGAS HIGH ELEVATION ZONE, NORTH AMERICAN DATUM OF 1983; SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.
LINEAR UNIT: US SURVEY FOOT (FTUS)
DATUM (REFERENCE FRAME): NAD 83 (2011) EPOCH 2010.00
SYSTEM: NEVADA COORDINATE REFERENCE SYSTEM (NCRS)
ZONE: LAS VEGAS HIGH ELEVATION ZONE
PROJECTION: TRANSVERSE MERCATOR
STANDARD PARALLEL (AND LATITUDE OF GRID ORIGIN): 36°15'00"N
LONGITUDE OF CENTRAL MERIDIAN: 114°58'00"W
NORTHING AT GRID ORIGIN: 400,000.00 M (1,312,333.3333 FTUS)
EASTING AT CENTRAL MERIDIAN: 300,000.00 M (984,250.0000 FTUS)
SCALE FACTOR ON CENTRAL MERIDIAN: 1.000135 (EXACT)
NOTES:
1. ALL DISTANCES AND BEARINGS SHOWN HEREON ARE PROJECTED (GRID) VALUES BASED ON THE PRECEDING PROJECTION DEFINITION. THE PROJECTION WAS DEFINED SUCH THAT PROJECTED (GRID) DISTANCES ARE EQUIVALENT TO "GROUND" DISTANCES IN THE PROJECT AREA.
2. GRID BEARINGS SHOWN HEREON (OR IMPLIED BY GRID COORDINATES) DO NOT EQUAL GEODETIC BEARINGS DUE TO MERIDIAN CONVERGENCE.

BENCHMARK			
BM#	DESCRIPTION	NAVD 88 DATUM	NAVD 88 DATUM
CLV BM NO. 7LVD934SWB	FIND RIVET AND PLATE IN TOP OF CURB SE CORNER OF DESERT MOON RD. AND SKY VISTA DR. T205R59E,S34	3318.31 (FEET)	1,011.422 (METERS)

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

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.

1-702-227-2929

ENGINEER: MICHAEL FANG
DATE: 11/19/2020

PROJECT NO. 62025-206
DESIGN: LG/MF
DRAWN: AS
CHECK: LG/MF
PLOT DATE: 11-19-20
PLOT TIME: 09:43:38

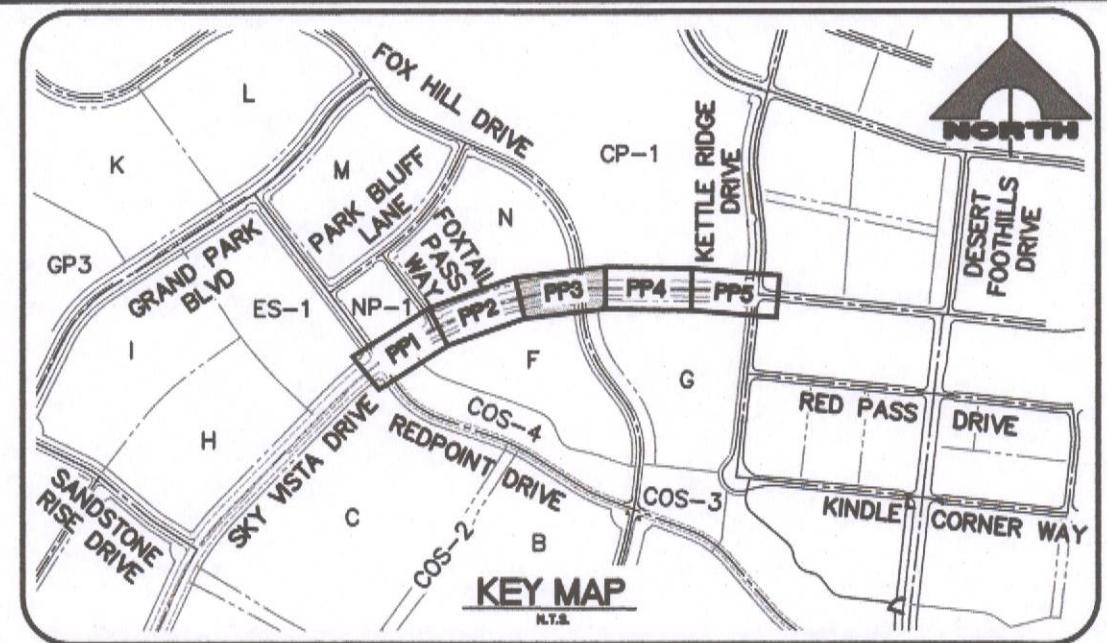
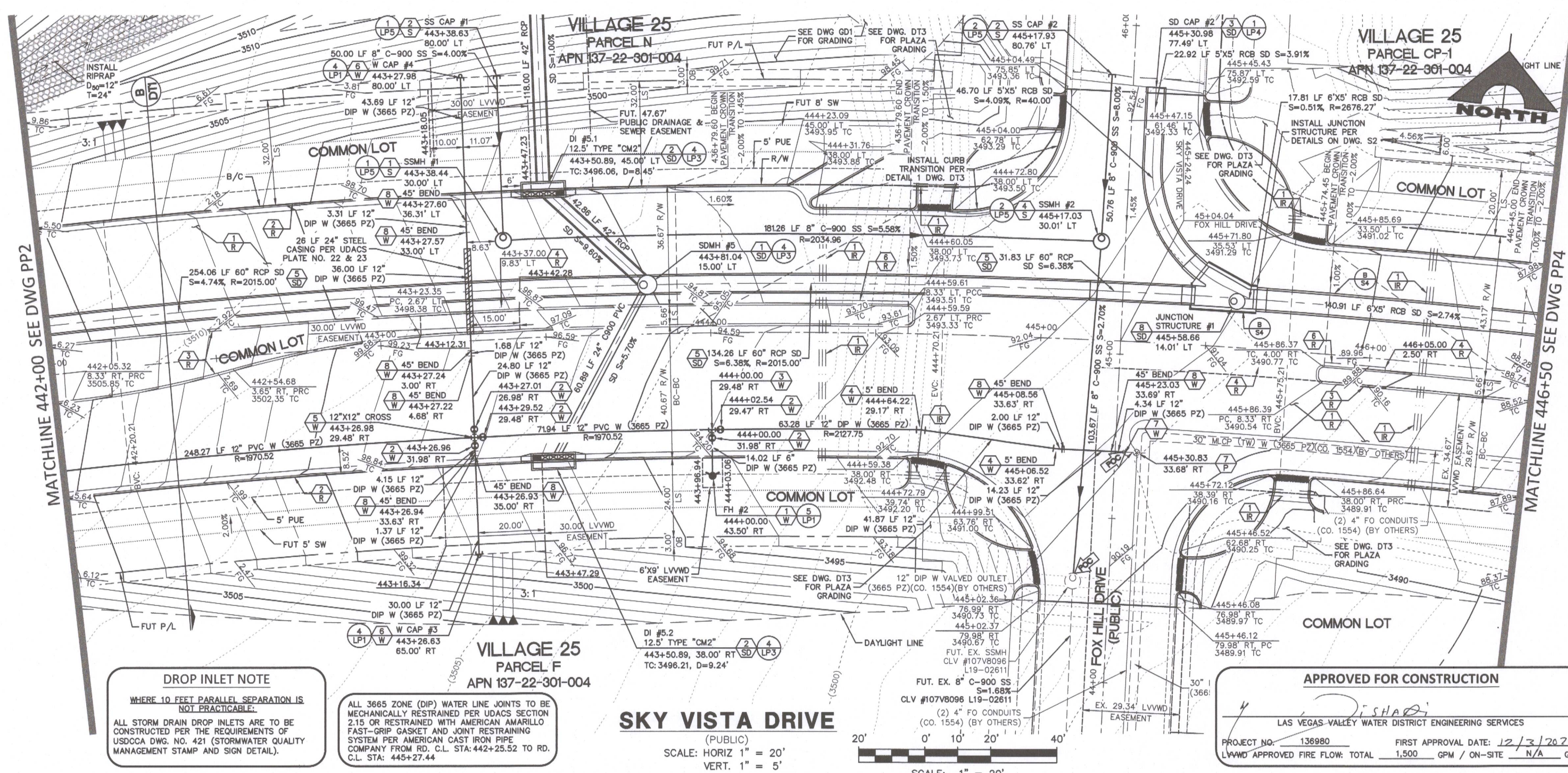
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gowingengineering.com

GCW
ENGINEERS & SURVEYORS

THE HOWARD HUGHES COMPANY, LLC
VILLAGE 25 SKY VISTA DRIVE IMPROVEMENTS
(REDPOINT DRIVE TO KETTLE RIDGE DRIVE)

PLAN AND PROFILE 2

DRAWING
PP2
12 OF 35 SHTS



- PROTECTION CONSTRUCTION NOTES**
- EXISTING PAVEMENT, PROTECT IN PLACE
 - EXISTING CURB/GUTTER, PROTECT IN PLACE
 - EXISTING PULLBOX, ADJUST TO FINISH GRADE
 - EXISTING TEST STATION, ADJUST TO FINISH GRADE & RELOCATE TO BEHIND CURB IF NECESSARY.
 - EXISTING BLOW-OFF, ADJUST TO FINISH GRADE PER UDACS PLT. NO. 37
 - EXISTING AVAR, ADJUST TO FINISH GRADE PER UDACS PLT. NO. 38
 - EXISTING GATE VALVE, ADJUST TO FINISH GRADE PER UDACS PLT. NO. 39
 - EXISTING WATER VAULT MH, ADJUST TO FINISH GRADE PER DETAIL 4 & 8 DWG. DT4
 - EXISTING SDMH, ADJUST TO FINISH GRADE
 - EXISTING WATER FIBER OPTIC VAULT PROTECT IN PLACE. ADJUST MANHOLE TO FINISH GRADE PER DETAIL 4 & 8 DWG. DT4
 - EXISTING WATER ACCESS MANHOLE PROTECT IN PLACE. RAISE TO FINAL PAVEMENT GRADE PER DETAIL 4 & 8 DWG. DT4
- ROADWAY CONSTRUCTION NOTES**
- INSTALL A.C. PAVEMENT PER STREET SECTIONS, SEE DWG. DT1
 - INSTALL "L" TYPE CURB & GUTTER, SEE SUMMERLIN STD DWG. S-47
 - INSTALL "A" TYPE ISLAND CURB, SEE SUMMERLIN STD DWG. S-50
 - INSTALL CURB TRANSITION PER DETAIL 5 DWG. DT4
 - CONSTRUCT SIDEWALK RAMP PER USD DWG. NO. 235 (CASE II) AND DETAILS ON DWG. DT2 & DT3
 - INSTALL "L" TYPE ISLAND CURB, SEE SUMMERLIN STD DWG. S-50
- WATER CONSTRUCTION NOTES**
- INSTALL FIRE HYDRANT & ASSEMBLY PER UDACS PLT. NO. 40.
 - FOR "DEEP" FIRE HYDRANTS SEE UDACS PL. NO. 41
 - INSTALL GATE VALVE AND BOX PER UDACS PLT. NO. 30 AND 39
 - INSTALL TEE W/ MECHANICALLY RESTRAINED JOINTS
 - INSTALL HORIZONTAL BEND W/ MECHANICALLY RESTRAINED JOINTS (SEE PLAN FOR ANGLE)
 - INSTALL CROSS W/ MECHANICALLY RESTRAINED JOINTS
 - INSTALL CAP W/ 2" BLOW-OFF ASSEMBLY PER UDACS PLT. NO. 36 W/ MECHANICALLY RESTRAINED JOINTS
 - INSTALL TEMPORARY PLUG AND CAP
 - REMOVE PLUG & CONNECT TO SEWER LINE (CONTRACTOR TO VERIFY SIZE, INVERT, AND LOCATION OF EX. SEWER PRIOR TO CONSTRUCTION)
 - INSTALL 48" STANDARD MANHOLE (PER DCSWS SD-1, SD-3, SD-4, SD-5) W/ CORROSION PROTECTION PER DCSWS 3.16.8
- SEWER CONSTRUCTION NOTES**
- INSTALL SEWER MANHOLE PER DCSWS SD-1 & SD-3 WITH SINGLE 24" LID
 - STUB AND CAP SEWER PIPE PER DETAIL 1, DWG. DT4
 - REMOVE PLUG & CONNECT TO SEWER LINE (CONTRACTOR TO VERIFY SIZE, INVERT, AND LOCATION OF EX. SEWER PRIOR TO CONSTRUCTION)
 - INSTALL 48" STANDARD MANHOLE (PER DCSWS SD-1, SD-3, SD-4, SD-5) W/ CORROSION PROTECTION PER DCSWS 3.16.8
- STORM DRAIN CONSTRUCTION NOTES**
- INSTALL TYPE II-SD MANHOLE PER USD DWG. NO. 405.2
 - INSTALL TYPE "CM2" DROP INLET PER USD DWG. NO. 412.1 AND 421
 - INSTALL TEMPORARY PLUG AND CAP
 - REMOVE PLUG & CONNECT TO EX. STORM DRAIN TO NEAREST RCP JOINT OR W/ CONCRETE COLLAR PER DETAIL 3 ON DWG. DT4 (CONTRACTOR TO VERIFY SIZE, INVERT, AND LOCATION OF EX. STORM DRAIN PRIOR TO CONSTRUCTION)
 - INSTALL 1" SACRIFICIAL CONCRETE, MIN. 6000 PSI
 - RCP TO BE CONSTRUCTED WITH WATER TIGHT JOINTS, ELASTOMERIC JOINT SEALANT, AND 4-INCHES OF SLURRY ENCASEMENT
 - LVWD APPROVED ELASTOMERIC JOINT SEALANT AT ALL MANHOLE JOINTS. SDMH TO BE INSTALLED WITH WATER TIGHT JOINTS.
 - INSTALL TYPICAL TYPE I ACCESS MANHOLE IN RCB PER USD DWG. NO. 403.1
- IRRIGATION CONSTRUCTION NOTES**
- BANK "A": 1'-6" & 2'-4" SCH 40 PVC. PER DETAIL 2 DWG. DT4

- WATER CONSTRUCTION NOTES**
- INSTALL FIRE HYDRANT & ASSEMBLY PER UDACS PLT. NO. 40.
 - FOR "DEEP" FIRE HYDRANTS SEE UDACS PL. NO. 41
 - INSTALL GATE VALVE AND BOX PER UDACS PLT. NO. 30 AND 39
 - INSTALL TEE W/ MECHANICALLY RESTRAINED JOINTS
 - INSTALL HORIZONTAL BEND W/ MECHANICALLY RESTRAINED JOINTS (SEE PLAN FOR ANGLE)
 - INSTALL CROSS W/ MECHANICALLY RESTRAINED JOINTS
 - INSTALL CAP W/ 2" BLOW-OFF ASSEMBLY PER UDACS PLT. NO. 36 W/ MECHANICALLY RESTRAINED JOINTS
 - INSTALL TEMPORARY PLUG AND CAP
 - REMOVE PLUG & CONNECT TO SEWER LINE (CONTRACTOR TO VERIFY SIZE, INVERT, AND LOCATION OF EX. SEWER PRIOR TO CONSTRUCTION)
 - INSTALL 48" STANDARD MANHOLE (PER DCSWS SD-1, SD-3, SD-4, SD-5) W/ CORROSION PROTECTION PER DCSWS 3.16.8
- SEWER CONSTRUCTION NOTES**
- INSTALL SEWER MANHOLE PER DCSWS SD-1 & SD-3 WITH SINGLE 24" LID
 - STUB AND CAP SEWER PIPE PER DETAIL 1, DWG. DT4
 - REMOVE PLUG & CONNECT TO SEWER LINE (CONTRACTOR TO VERIFY SIZE, INVERT, AND LOCATION OF EX. SEWER PRIOR TO CONSTRUCTION)
 - INSTALL 48" STANDARD MANHOLE (PER DCSWS SD-1, SD-3, SD-4, SD-5) W/ CORROSION PROTECTION PER DCSWS 3.16.8
- STORM DRAIN CONSTRUCTION NOTES**
- INSTALL TYPE II-SD MANHOLE PER USD DWG. NO. 405.2
 - INSTALL TYPE "CM2" DROP INLET PER USD DWG. NO. 412.1 AND 421
 - INSTALL TEMPORARY PLUG AND CAP
 - REMOVE PLUG & CONNECT TO EX. STORM DRAIN TO NEAREST RCP JOINT OR W/ CONCRETE COLLAR PER DETAIL 3 ON DWG. DT4 (CONTRACTOR TO VERIFY SIZE, INVERT, AND LOCATION OF EX. STORM DRAIN PRIOR TO CONSTRUCTION)
 - INSTALL 1" SACRIFICIAL CONCRETE, MIN. 6000 PSI
 - RCP TO BE CONSTRUCTED WITH WATER TIGHT JOINTS, ELASTOMERIC JOINT SEALANT, AND 4-INCHES OF SLURRY ENCASEMENT
 - LVWD APPROVED ELASTOMERIC JOINT SEALANT AT ALL MANHOLE JOINTS. SDMH TO BE INSTALLED WITH WATER TIGHT JOINTS.
 - INSTALL TYPICAL TYPE I ACCESS MANHOLE IN RCB PER USD DWG. NO. 403.1
- IRRIGATION CONSTRUCTION NOTES**
- BANK "A": 1'-6" & 2'-4" SCH 40 PVC. PER DETAIL 2 DWG. DT4

- WATER CONSTRUCTION NOTES**
- INSTALL FIRE HYDRANT & ASSEMBLY PER UDACS PLT. NO. 40.
 - FOR "DEEP" FIRE HYDRANTS SEE UDACS PL. NO. 41
 - INSTALL GATE VALVE AND BOX PER UDACS PLT. NO. 30 AND 39
 - INSTALL TEE W/ MECHANICALLY RESTRAINED JOINTS
 - INSTALL HORIZONTAL BEND W/ MECHANICALLY RESTRAINED JOINTS (SEE PLAN FOR ANGLE)
 - INSTALL CROSS W/ MECHANICALLY RESTRAINED JOINTS
 - INSTALL CAP W/ 2" BLOW-OFF ASSEMBLY PER UDACS PLT. NO. 36 W/ MECHANICALLY RESTRAINED JOINTS
 - INSTALL TEMPORARY PLUG AND CAP
 - REMOVE PLUG & CONNECT TO SEWER LINE (CONTRACTOR TO VERIFY SIZE, INVERT, AND LOCATION OF EX. SEWER PRIOR TO CONSTRUCTION)
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 - REMOVE PLUG & CONNECT TO SEWER LINE (CONTRACTOR TO VERIFY SIZE, INVERT, AND LOCATION OF EX. SEWER PRIOR TO CONSTRUCTION)
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 - INSTALL 1" SACRIFICIAL CONCRETE, MIN. 6000 PSI
 - RCP TO BE CONSTRUCTED WITH WATER TIGHT JOINTS, ELASTOMERIC JOINT SEALANT, AND 4-INCHES OF SLURRY ENCASEMENT
 - LVWD APPROVED ELASTOMERIC JOINT SEALANT AT ALL MANHOLE JOINTS. SDMH TO BE INSTALLED WITH WATER TIGHT JOINTS.
 - INSTALL TYPICAL TYPE I ACCESS MANHOLE IN RCB PER USD DWG. NO. 403.1
- IRRIGATION CONSTRUCTION NOTES**
- BANK "A": 1'-6" & 2'-4" SCH 40 PVC. PER DETAIL 2 DWG. DT4

BASIS OF BEARING AND COORDINATES

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS). LAS VEGAS HIGH ELEVATION ZONE, NORTH AMERICAN DATUM OF 1983; SAG MERIDIAN BEING COINCIDENT WITH 114°55' WEST OF THE GREENWICH MERIDIAN.

LINEAR UNIT: US SURVEY FOOT (FTUS)
DATUM (REFERENCE FRAME): NAD 83 (2011) EPOCH 2010.00
SYSTEM: NEVADA COORDINATE REFERENCE SYSTEM (NCRS)
ZONE: LAS VEGAS HIGH ELEVATION ZONE

PROJECTION: TRANSVERSE MERCATOR
STANDARD PARALLEL (AND LATITUDE OF GRID ORIGIN): 36°15'00"N
LONGITUDE OF CENTRAL MERIDIAN: 114°58'00"W
NORTHING AT GRID ORIGIN: 400,000.00 M (1,312,333.333 FTUS)
EASTING AT CENTRAL MERIDIAN: 300,000.00 M (984,250.000 FTUS)
SCALE FACTOR ON CENTRAL MERIDIAN: 1.000135 (EXACT)

NOTES:
1. ALL DISTANCES AND BEARINGS SHOWN HEREON ARE PROJECTED (GRID) VALUES BASED ON THE PRECEDING PROJECTION DEFINITION. THE PROJECTION WAS DEFINED SUCH THAT PROJECTED (GRID) DISTANCES ARE EQUIVALENT TO "GROUND" DISTANCES IN THE PROJECT AREA.
2. GRID BEARINGS SHOWN HEREON (OR IMPLIED BY GRID COORDINATES) DO NOT EQUAL GEODETIC BEARINGS DUE TO MERIDIAN CONVERGENCE.

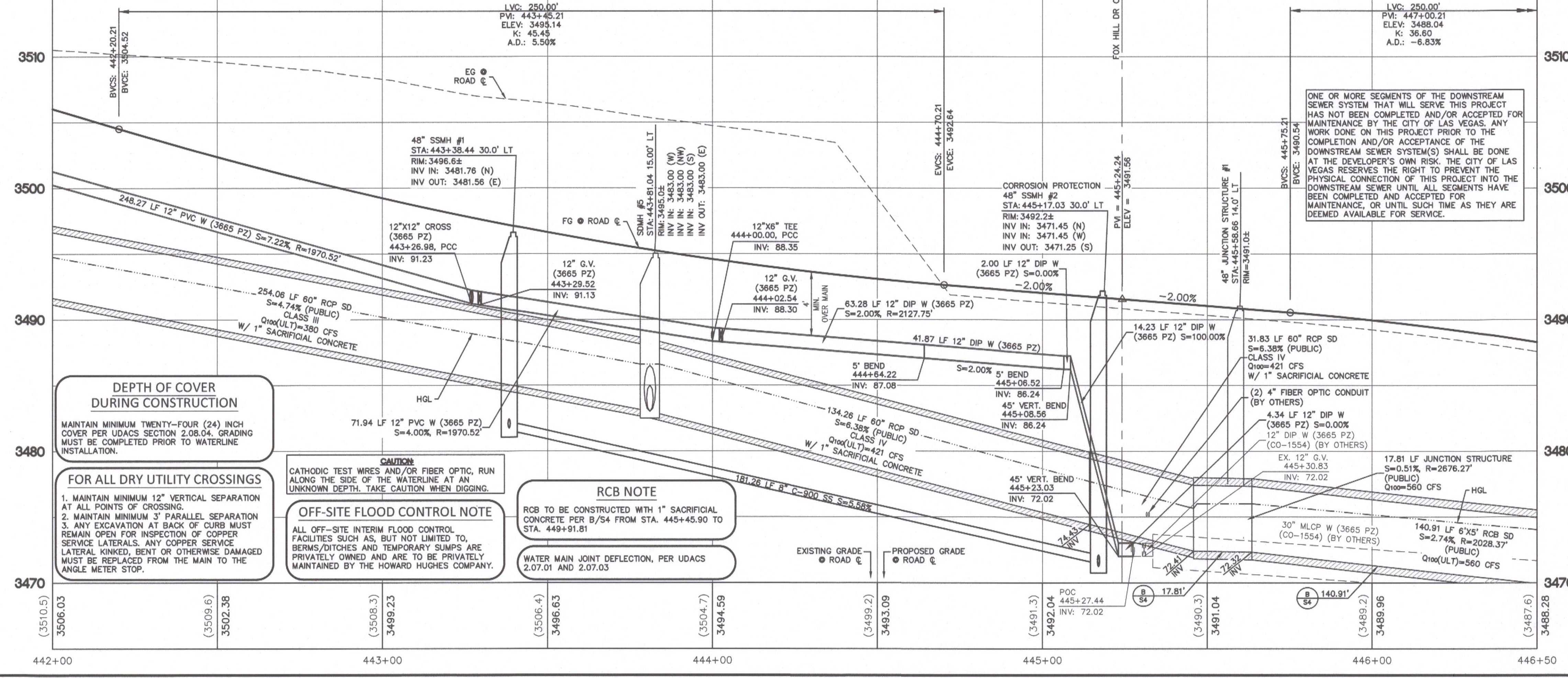
BENCHMARK

BM#	DESCRIPTION	NAVD 88 DATUM	NAVD 88 DATUM
CLV BM No. 7LW09345W6	FIND RIVET AND PLATE IN TOP OF CURB SE CORNER OF DESERT MOON RD. AND SKY VISTA DR. T205R59E.S34	3318.31	1,011.422
		(FEET)	(METERS)

Call before you Dig
Call 811
1-800-227-8800

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

Call before you Dig
Call before you Overhead
1-702-227-2929



- 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.
- FOR ALL DRY UTILITY CROSSINGS**
- MAINTAIN MINIMUM 12" VERTICAL SEPARATION AT ALL POINTS OF CROSSING.
 - MAINTAIN MINIMUM 3" PARALLEL SEPARATION
 - ANY EXCAVATION AT BACK OF CURB MUST REMAIN OPEN FOR INSPECTION OF COPPER SERVICE LATERALS. ANY COPPER SERVICE LATERAL KINKED, BENT OR OTHERWISE DAMAGED MUST BE REPLACED FROM THE MAIN TO THE ANGLE METER STOP.
- CAUTION**
- CATHODIC TEST WIRES AND/OR FIBER OPTIC, RUN ALONG THE SIDE OF THE WATERLINE AT AN UNKNOWN DEPTH. TAKE CAUTION WHEN DIGGING.
- OFF-SITE FLOOD CONTROL NOTE**
- ALL OFF-SITE INTERIM FLOOD CONTROL FACILITIES SUCH AS, BUT NOT LIMITED TO, BERMS/DITCHES AND TEMPORARY SUMPS ARE PRIVATELY OWNED AND ARE TO BE PRIVATELY MAINTAINED BY THE HOWARD HUGHES COMPANY.
- RCB NOTE**
- RCB TO BE CONSTRUCTED WITH 1" SACRIFICIAL CONCRETE PER B/S4 FROM STA. 445+45.90 TO STA. 449+91.81
- WATER MAIN JOINT DEFLECTION, PER UDACS**
- 2.07.01 AND 2.07.03

(3510.5)	(3506.03)	(3509.6)	(3502.38)	(3508.3)	(3499.23)	(3506.4)	(3496.63)	(3504.7)	(3494.59)	(3499.2)	(3493.09)	(3491.3)	(3492.04)	(3490.3)	(3487.6)
442+00		443+00		444+00		445+00		446+00		447+00		448+00		449+00	

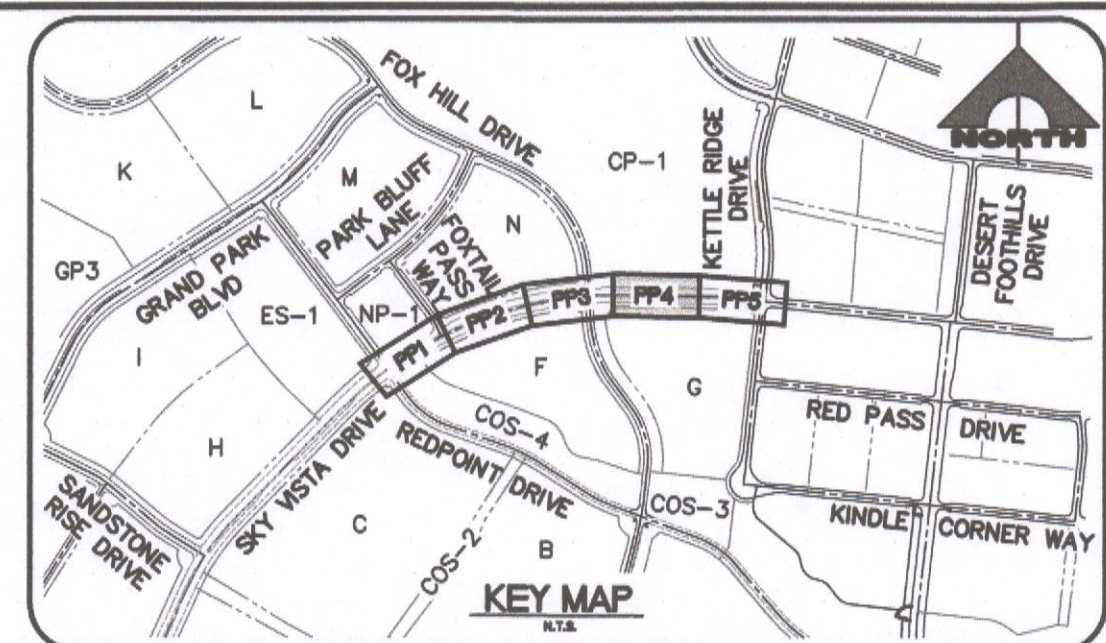
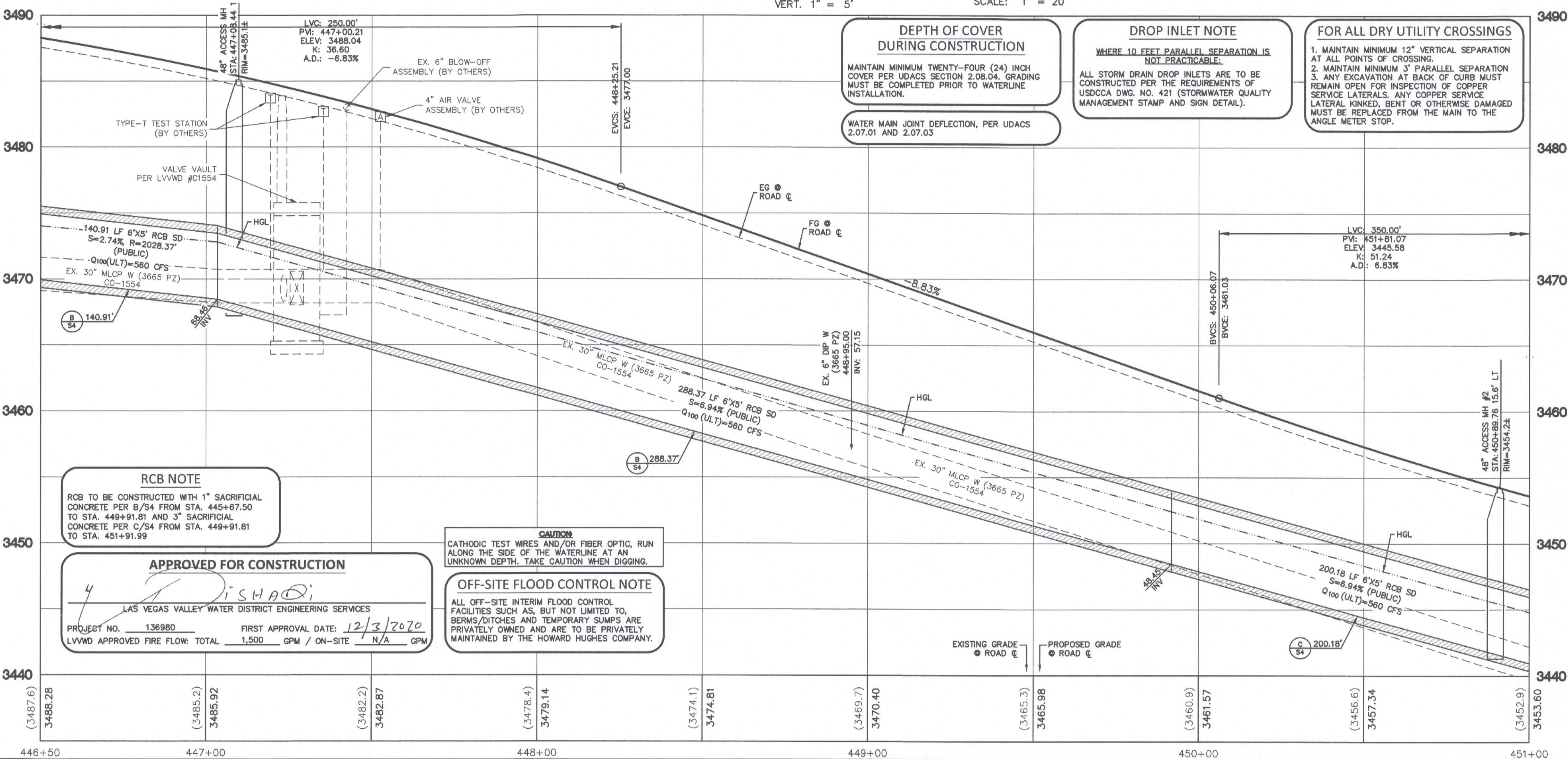
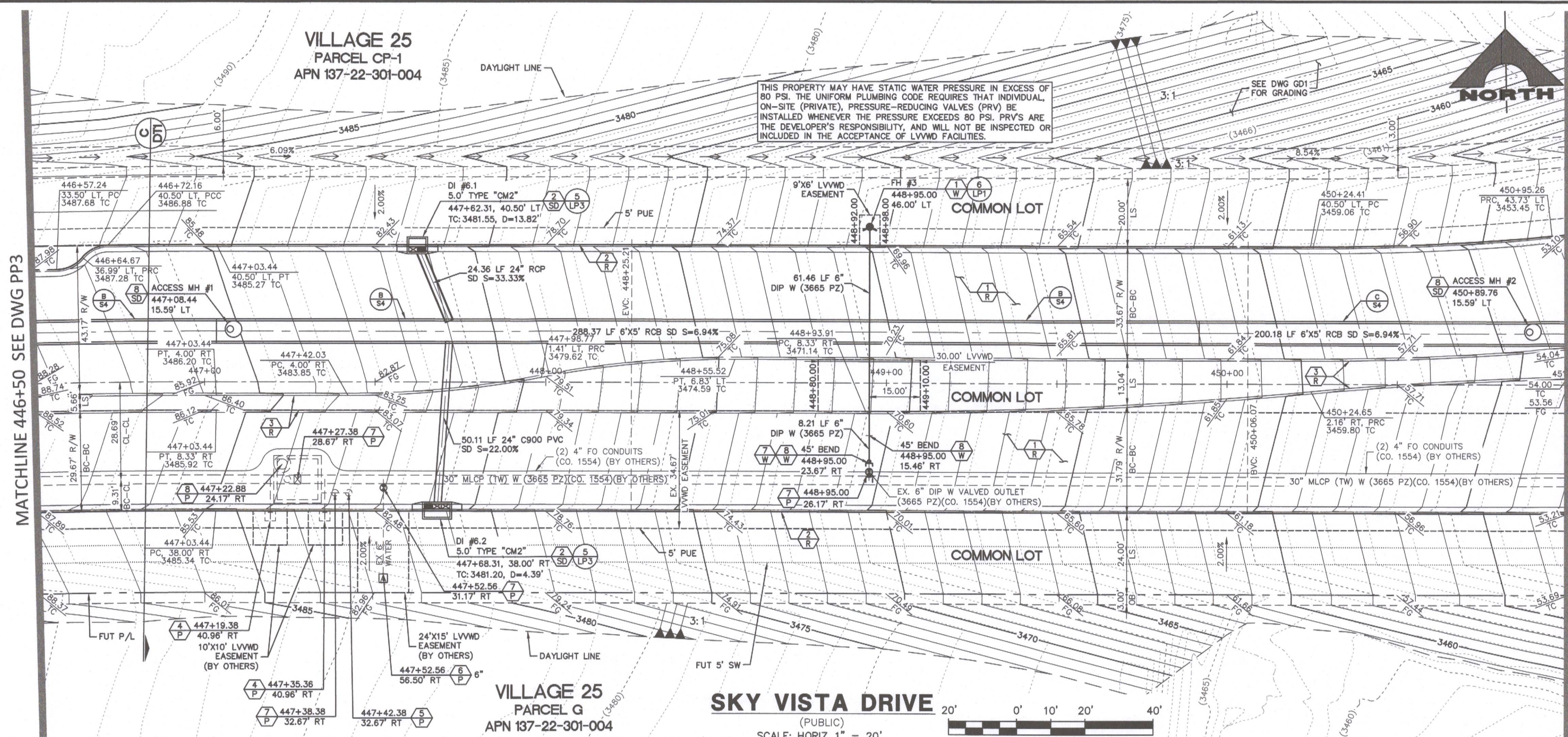
THE HOWARD HUGHES COMPANY, LLC
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gohengineering.com

ENGINEERS & SURVEYORS

PLAN AND PROFILE 3

DRAWING
PP3
13 OF 35 SHTS

PROJECT NO. 62025-206
DESIGN: LG/MF
DRAWN: AS
CHECK: LG/MF
PLOT DATE: 11-19-20
PLOT TIME: 09:44:35
DATE: 11/19/2020



- | PROTECTION CONSTRUCTION NOTES | |
|-------------------------------|---|
| 1 | EXISTING PAVEMENT, PROTECT IN PLACE |
| 2 | EXISTING CURB/GUTTER, PROTECT IN PLACE |
| 3 | EXISTING PULLBOX, ADJUST TO FINISH GRADE |
| 4 | EXISTING TEST STATION, ADJUST TO FINISH GRADE & RELOCATE TO BEHIND CURB IF NECESSARY. |
| 5 | EXISTING BLOW-OFF, ADJUST TO FINISH GRADE PER UDACS PLT. NO. 37 |
| 6 | EXISTING AVAR, ADJUST TO FINISH GRADE PER UDACS PLT. NO. 38 |
| 7 | EXISTING GATE VALVE, ADJUST TO FINISH GRADE PER UDACS PLT. NO. 39 |
| 8 | EXISTING WATER VAULT MM, ADJUST TO FINISH GRADE PER DETAIL 4 & 8 DWG. D14 |
| 9 | EXISTING SDMH, ADJUST TO FINISH GRADE |
| 10 | EXISTING WATER FIBER OPTIC VAULT PROTECT IN PLACE. ADJUST MANHOLE TO FINISH GRADE PER DETAIL 4 & 8 DWG. D14 |
| 11 | EXISTING WATER ACCESS MANHOLE PROTECT IN PLACE. RAISE TO FINAL PAVEMENT GRADE PER DETAIL 4 & 8 DWG. D14 |

- | ROADWAY CONSTRUCTION NOTES | |
|----------------------------|--|
| 1 | INSTALL A.C. PAVEMENT PER STREET SECTIONS, SEE DWG. DT1 |
| 2 | INSTALL "L" TYPE CURB & GUTTER, SEE SUMMERLIN STD DWG. S-47 |
| 3 | INSTALL "A" TYPE ISLAND CURB, SEE SUMMERLIN STD DWG. S-50 |
| 4 | INSTALL CURB TRANSITION PER DETAIL 5 DWG. DT4 |
| 5 | CONSTRUCT SIDEWALK RAMP PER USD DWG. NO. 235 (CASE II) AND DETAILS ON DWG. DT2 & DT3 |
| 6 | INSTALL "L" TYPE ISLAND CURB, SEE SUMMERLIN STD DWG. S-50 |
- WATER CONSTRUCTION NOTES

- | WATER DISTRIBUTION NOTES | |
|--------------------------|--|
| 1 | INSTALL FIRE HYDRANT ASSEMBLY PER UDACS PLT. NO. 40. |
| 2 | FOR "DEEP" FIRE HYDRANTS SEE UDACS PL. NO. 41. |
| 3 | INSTALL GATE VALVE AND BOX PER UDACS PLT. NO. 30 AND 39 |
| 4 | INSTALL TEE W/ MECHANICALLY RESTRAINED JOINTS |
| 5 | INSTALL HORIZONTAL BEND W/ MECHANICALLY RESTRAINED JOINTS
(SEE PLAN FOR ANGLE) |
| 6 | INSTALL CROSS W/ MECHANICALLY RESTRAINED JOINTS |
| 7 | INSTALL CAP W/ 2" BLOW-OFF ASSEMBLY PER UDACS PLT. NO. 36 W/
MECHANICALLY RESTRAINED JOINTS |
| 8 | REMOVE CAP AND BLOWOFF PER UDACS PLT. NO. 36 AND CONNECT TO
EXISTING WATER LINE. |
| 9 | INSTALL VERTICAL BEND W/ MECHANICALLY RESTRAINED JOINTS
(SEE PLAN FOR ANGLE) |

- ### SEWER CONSTRUCTION NOTES
1. INSTALL SEWER MANHOLE PER DCSWCS SD-1 & SD-3 WITH SINGLE 24" LID
 2. STUB AND CAP SEWER PIPE PER DETAIL 1, DWG. D74
 3. REMOVE PLUG & CONNECT TO SEWER LINE (CONTRACTOR TO VERIFY SIZE, INVERT, AND LOCATION OF EX. SEWER PRIOR TO CONSTRUCTION)
 4. INSTALL 48" STANDARD MANHOLE (PER DCSWCS SD-1, SD-3, SD-4, SD-5) W/ CORROSION PROTECTION PER DCSWCS 3.16.8.

- STORM DRAIN CONSTRUCTION NOTES**
1. INSTALL TYPE II-SD MANHOLE PER USD DWG. NO. 405.2
 2. INSTALL TYPE "GM2" DROP INLET PER USD DWG. NO. 412.1 AND 421
 3. INSTALL TEMPORARY PLUG AND CAP
 4. REMOVE PLUG & CONNECT TO EX. STORM DRAIN TO NEAREST RCP JOINT OR W/ CONCRETE COLLAR PER DETAIL 3 ON DWG. D14 (CONTRACTOR TO VERIFY SIZE, INVERT, AND LOCATION OF EX. STORM DRAIN PRIOR TO CONSTRUCTION)

- 6 INSTALL 1" SACRIFICIAL CONCRETE, MIN. 6000 PSI
 7 RCP TO BE CONSTRUCTED WITH WATER TIGHT JOINTS, ELASTOMERIC JOINT
 8 SEALANT, AND 4-INCHES OF SLURRY ENCASEMENT
 9 LVMD APPROVED ELASTOMERIC JOINT SEALANT AT ALL MANHOLE JOINTS.
 10 SDMH TO BE INSTALLED WITH WATER TIGHT JOINTS.
 11 INSTALL TYPICAL TYPE 1 ACCESS MANHOLE IN RCP PER USD DWG. NO. 403.1
 IRRIGATION CONSTRUCTION NOTES
 12 RANK "A": 1'-6" & 2'-4" SCH 40 BVC PER DETAIL 2 DWG. DTA

- BASIS OF BEARING AND COORDINATES**
- GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS HIGH ELEVATION ZONE, NORTH AMERICAN DATUM OF 1983, CENTRAL MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.
- LINEAR UNIT: US SURVEY FOOT (FT/US)
DATUM (REFERENCE FRAME): NAD 83 (2011) EPOCH 2010.00
SYSTEM: NEVADA COORDINATE REFERENCE SYSTEM (NCRS)
ZONE: LAS VEGAS HIGH ELEVATION ZONE

PROJECTION: TRANSVERSE MERCATOR
STANDARD PARALLEL (AND LATITUDE OF GRID ORIGIN): 36°15'00"N
LONGITUDE OF CENTRAL MERIDIAN: 114°58'00"W
NORTHING AT GRID ORIGIN: 400,000.00 M (1,312,333.3333 FTUS)
EASTING AT CENTRAL MERIDIAN: 300,000 M (984,250.0000 FTUS)
SCALE FACTOR ON CENTRAL MERIDIAN: 1.000135 (EXACT)

NOTES:

1. ALL DISTANCES AND BEARINGS SHOWN HEREIN ARE PROJECTED (GRID) VALUES BASED ON THE PRECEDING PROJECTION DEFINITION. THE PROJECTION WAS DEFINED SUCH THAT PROJECTED (GRID) DISTANCES ARE EQUIVALENT TO "GROUND" DISTANCES IN THE PROJECT AREA.
2. GRID BEARINGS SHOWN HEREON (OR IMPLIED BY GRID COORDINATES) DO NOT

EQUAL GEODETIC BEARINGS DUE TO MERIDIAN CONVERGENCE.

BENCHMARK			
BM#	DESCRIPTION	NAVD. 88 DATE	NAVD 88 DATE
CLV BM No. 7L9V09.345W6	FIND RIVET AND PLATE IN TOP OF CURB SE CORNER OF DESERT MOON RD. AND SKY VISTA DR. T20S.054E.S34	3318.31 (FEET)	1,011.422 (METERS)

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



OR
1-800-227-2800

FAST



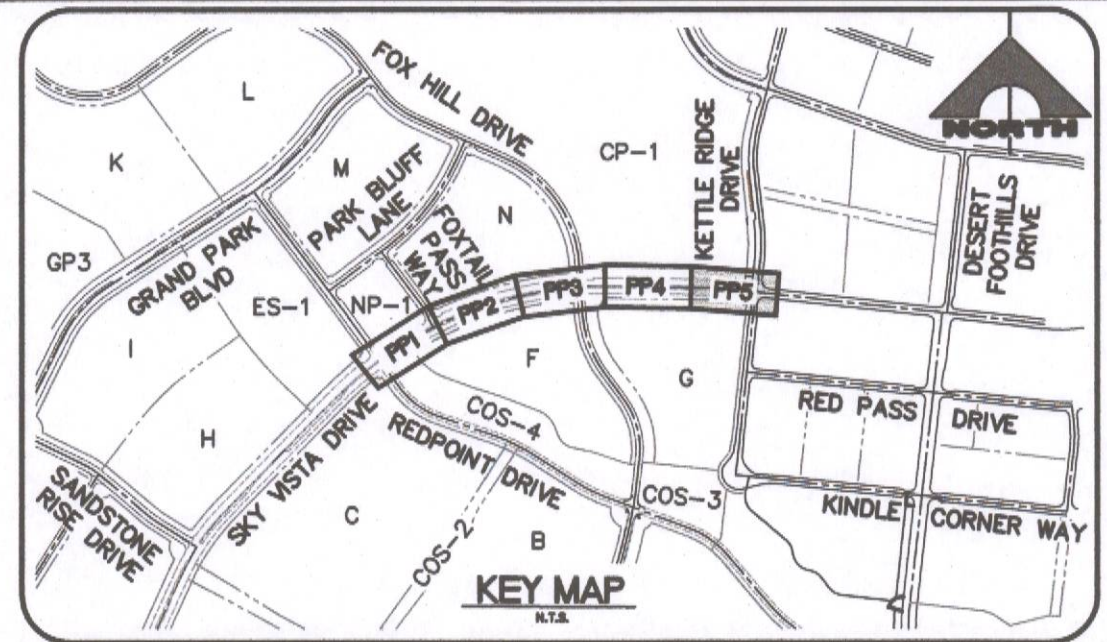
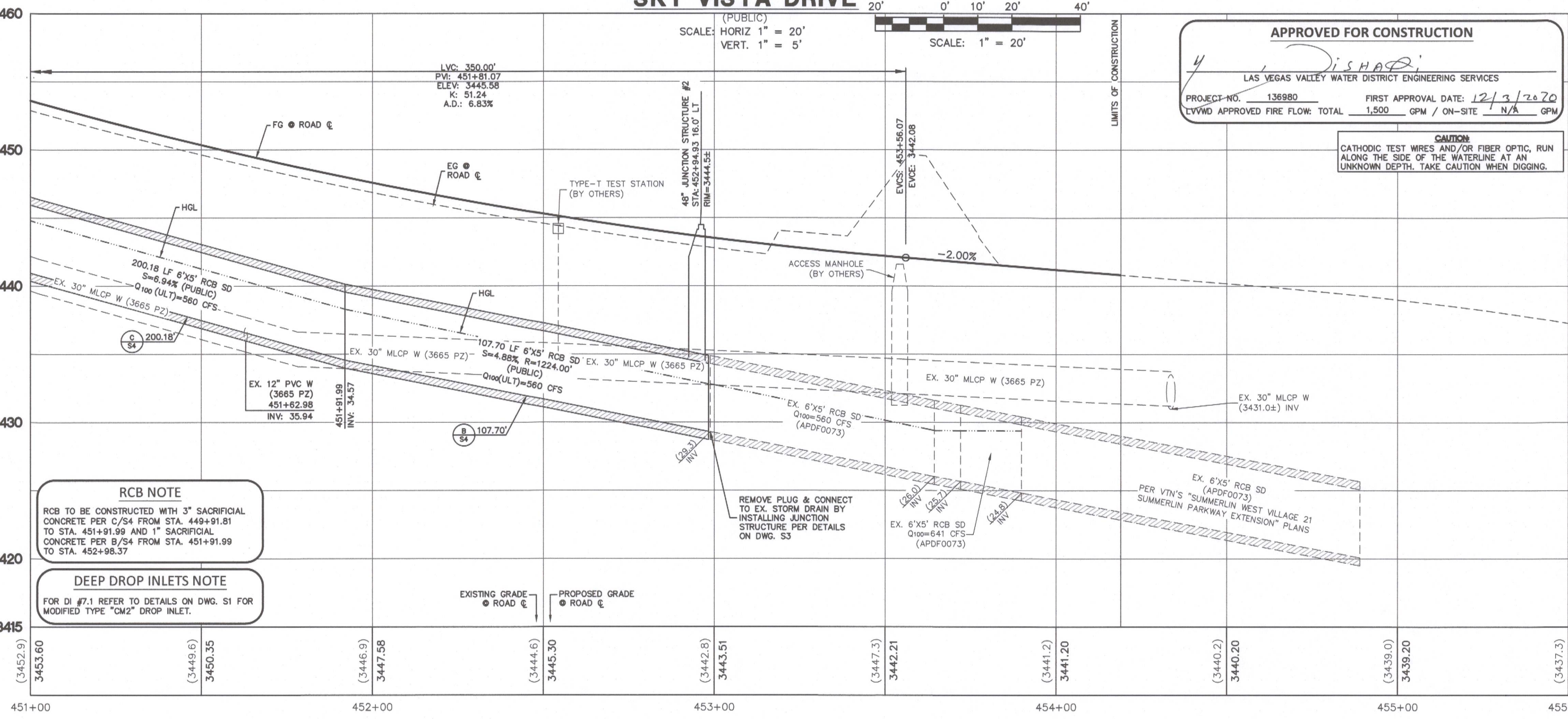
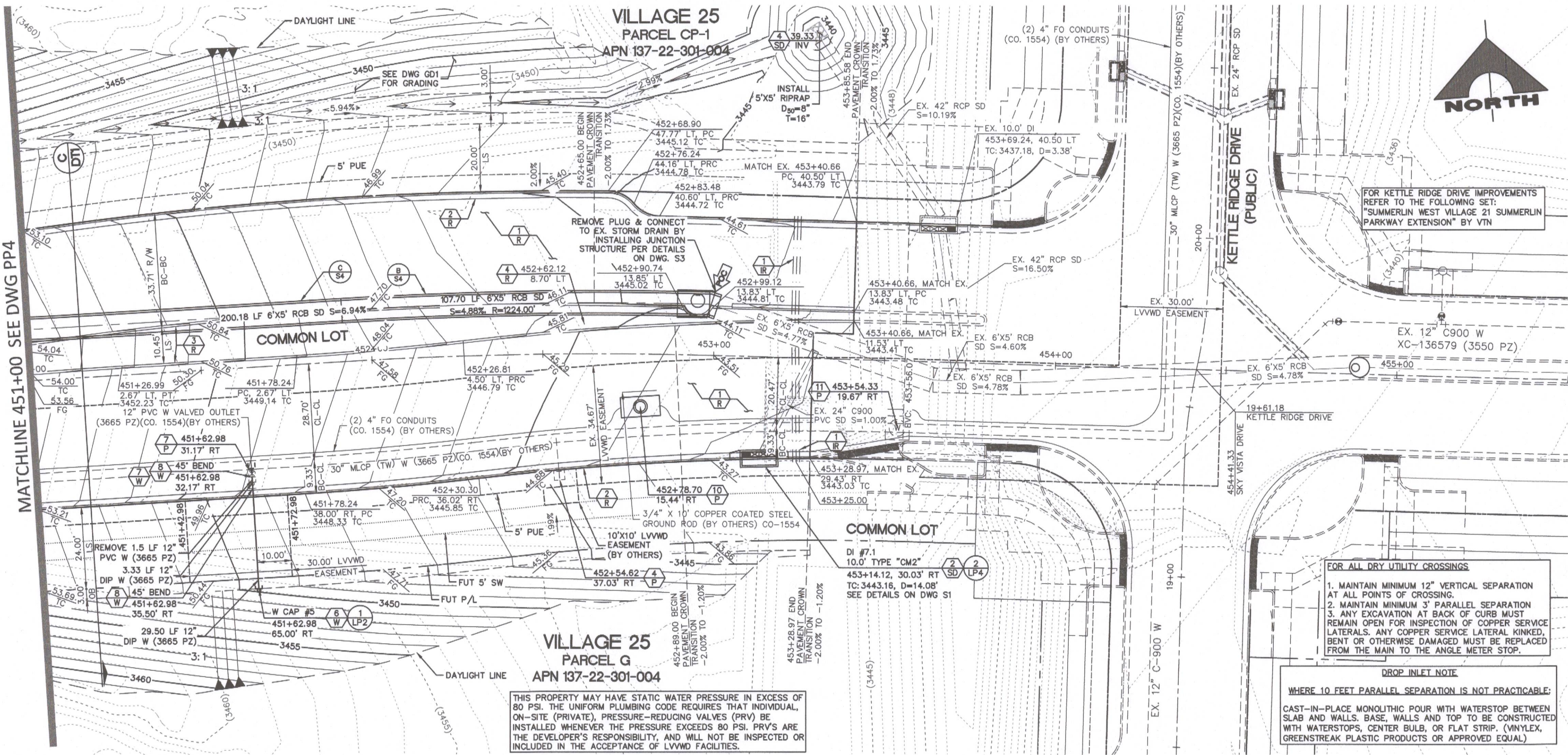
Call before you Under Ground
1-702-432-6300
FREEMAN AND ARTERIAL
SYSTEM OF TRANSPORTATION

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.



1-702-227-2929

L#: L20-00376
CLV#: 107V8310



- PROTECTION CONSTRUCTION NOTES**
- EXISTING PAVEMENT, PROTECT IN PLACE
 - EXISTING CURB/GUTTER, PROTECT IN PLACE
 - EXISTING PULLBOX, ADJUST TO FINISH GRADE
 - EXISTING TEST STATION, ADJUST TO FINISH GRADE & RELOCATE TO BEHIND CURB IF NECESSARY.
 - EXISTING BLOW-OFF, ADJUST TO FINISH GRADE PER UDACS PLT. NO. 37
 - EXISTING AVAL, ADJUST TO FINISH GRADE PER UDACS PLT. NO. 38
 - EXISTING GATE VALVE, ADJUST TO FINISH GRADE PER UDACS PLT. NO. 39
 - EXISTING WATER VAULT MH, ADJUST TO FINISH GRADE PER DETAIL 4 & 8 DWG. DT4
 - EXISTING SDMH, ADJUST TO FINISH GRADE
 - EXISTING WATER FIBER OPTIC VAULT PROTECT IN PLACE. ADJUST MANHOLE TO FINISH GRADE PER DETAIL 4 & 8 DWG. DT4
 - EXISTING WATER ACCESS MANHOLE PROTECT IN PLACE. RAISE TO FINAL PAVEMENT GRADE PER DETAIL 4 & 8 DWG. DT4
- ROADWAY CONSTRUCTION NOTES**
- INSTALL A.C. PAVEMENT PER STREET SECTIONS, SEE DWG. DT1
 - INSTALL "L" TYPE CURB & GUTTER, SEE SUMMERLIN STD DWG. S-47
 - INSTALL "A" TYPE ISLAND CURB, SEE SUMMERLIN STD DWG. S-50
 - INSTALL CURB TRANSITION PER DETAIL 5 DWG. DT4
 - CONSTRUCT SIDEWALK RAMP PER USD DWG. NO. 235 (CASE II) AND DETAILS ON DWG. DT2 & DT3
 - INSTALL "L" TYPE ISLAND CURB, SEE SUMMERLIN STD DWG. S-50
- WATER CONSTRUCTION NOTES**
- INSTALL FIRE HYDRANT & ASSEMBLY PER UDACS PLT. NO. 40.
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 - INSTALL HORIZONTAL BEND W/ MECHANICALLY RESTRAINED JOINTS (SEE PLAN FOR ANGLE)
 - INSTALL CROSS W/ MECHANICALLY RESTRAINED JOINTS
 - INSTALL CAP W/ 2" BLOW-OFF ASSEMBLY PER UDACS PLT. NO. 36 W/ MECHANICALLY RESTRAINED JOINTS
 - REMOVE CAP AND BLOWOFF PER UDACS PLT. NO. 36 AND CONNECT TO EXISTING WATER LINE.
 - INSTALL VERTICAL BEND W/ MECHANICALLY RESTRAINED JOINTS (SEE PROFILE FOR ANGLE)
- SEWER CONSTRUCTION NOTES**
- INSTALL SEWER MANHOLE PER DCSWS SD-1 & SD-3 WITH SINGLE 24" LID
 - STUB AND CAP SEWER PIPE PER DETAIL 1, DWG. DT4
 - REMOVE PLUG & CONNECT TO SEWER LINE (CONTRACTOR TO VERIFY SIZE, INVERT, AND LOCATION OF EX. SEWER PRIOR TO CONSTRUCTION)
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 - ROP TO BE CONSTRUCTED WITH WATER TIGHT JOINTS, ELASTOMERIC JOINT SEALANT, AND 4-INCHES OF SLURRY ENCASEMENT
 - LVWD APPROVED ELASTOMERIC JOINT SEALANT AT ALL MANHOLE JOINTS. SDMH TO BE INSTALLED WITH WATER TIGHT JOINTS.
 - INSTALL TYPICAL TYPE I ACCESS MANHOLE IN RCB PER USD DWG. NO. 403.1
- IRRIGATION CONSTRUCTION NOTES**
- BANK "A": 1-6" & 2-4" SCH 40 PVC. PER DETAIL 2 DWG. DT4

BASIS OF BEARING AND COORDINATES

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS). LAS VEGAS HIGH ELEVATION ZONE, NORTH AMERICAN DATUM OF 1983; SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

LINEAR UNIT: US SURVEY FOOT (FTUS)
DATUM (REFERENCE FRAME): NAD 83 (2011) EPOCH 2010.00
SYSTEM: NEVADA COORDINATE REFERENCE SYSTEM (NCRS)
ZONE: LAS VEGAS HIGH ELEVATION ZONE

PROJECTION: TRANSVERSE MERCATOR
STANDARD PARALLEL (AND LATITUDE OF GRID ORIGIN): 36°15'00"N
LONGITUDE OF CENTRAL MERIDIAN: 114°58'00"W
NORTHING AT GRID ORIGIN: 400,000.00 M (1,312,333.3333 FTUS)
EASTING AT CENTRAL MERIDIAN: 300,000.00 M (984,250.0000 FTUS)
SCALE FACTOR ON CENTRAL MERIDIAN: 1.000135 (EXACT)

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BENCHMARK

BM#	DESCRIPTION	NAVD 88 DATUM	NAVD 88 DATUM
CLV BM No. 7LV09345W6	FIND RIVET AND PLATE IN TOP OF CURB SE CORNER OF DESERT MOON RD. AND SKY VISTA DR. T205R59E.S34	3318.31 (FEET)	1,011.422 (METERS)

Call before you Dig
Call 811 or 1-800-227-2800

FAST
Call before you UnderGround
1-702-432-6300
FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

Call before you Dig
Call before you Dig
1-702-227-2929
AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.

THE HOWARD HUGHES COMPANY, LLC

VILLAGE 25 SKY VISTA DRIVE IMPROVEMENTS
(REDPOINT DRIVE TO KETTLE RIDGE DRIVE)

PP5

15 OF 35 SHOTS

ENGINEERS & SURVEYORS

GCW

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

APPROVED FOR CONSTRUCTION

DISHARI

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

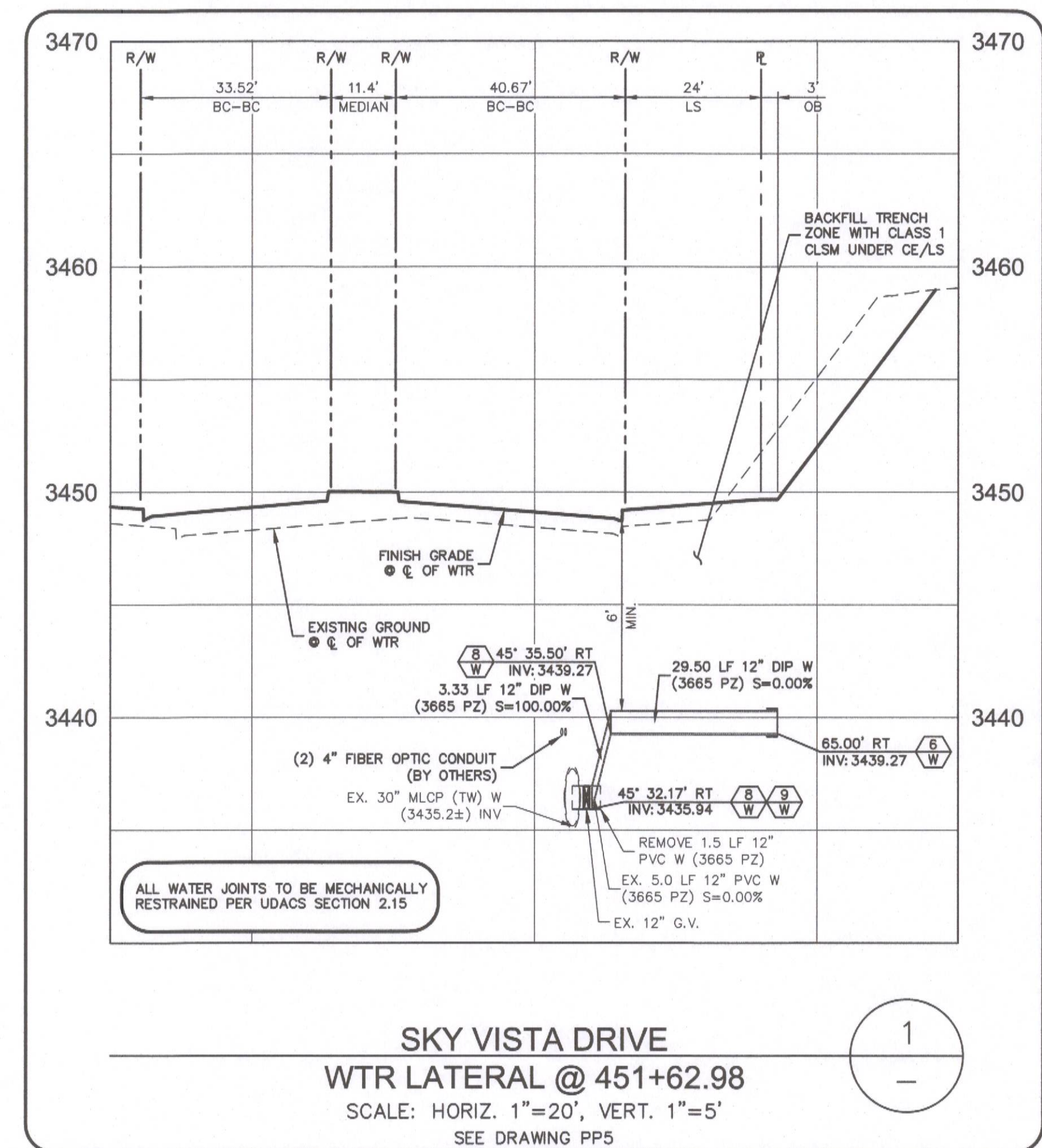
PROJECT NO. 136980 FIRST APPROVAL DATE: 12/3/2020

LVWD APPROVED FIRE FLOW: TOTAL 1,500 GPM / ON-SITE N/A GPM

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

PLAN AND PROFILE 5

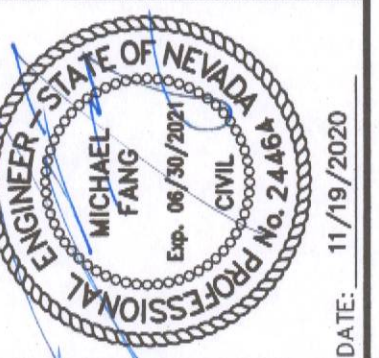
DRAWING
PP5
15 OF 35 SHOTS

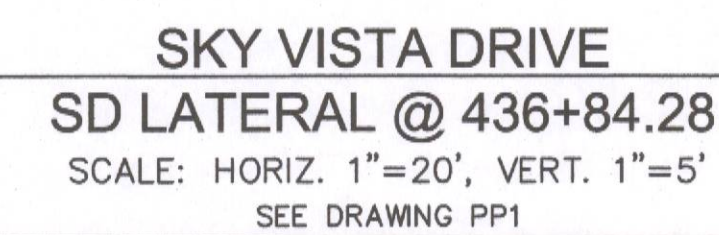
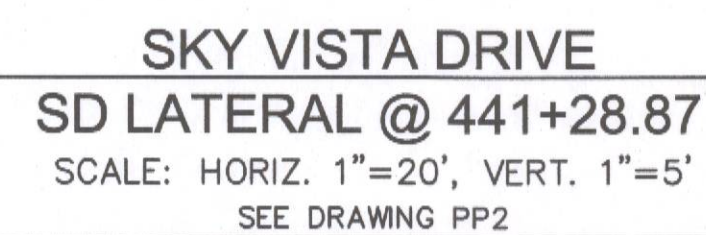
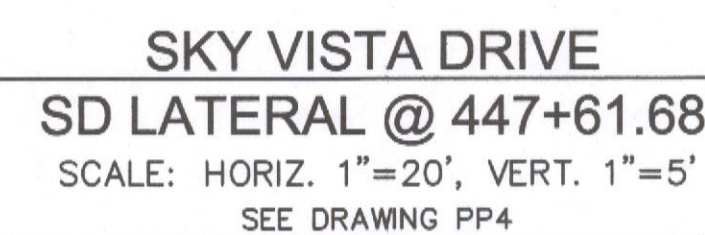
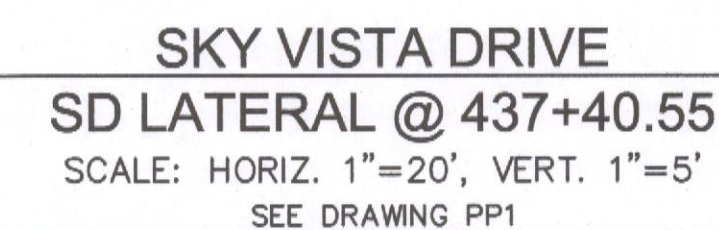
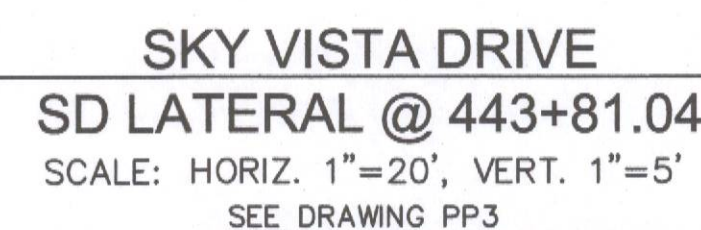


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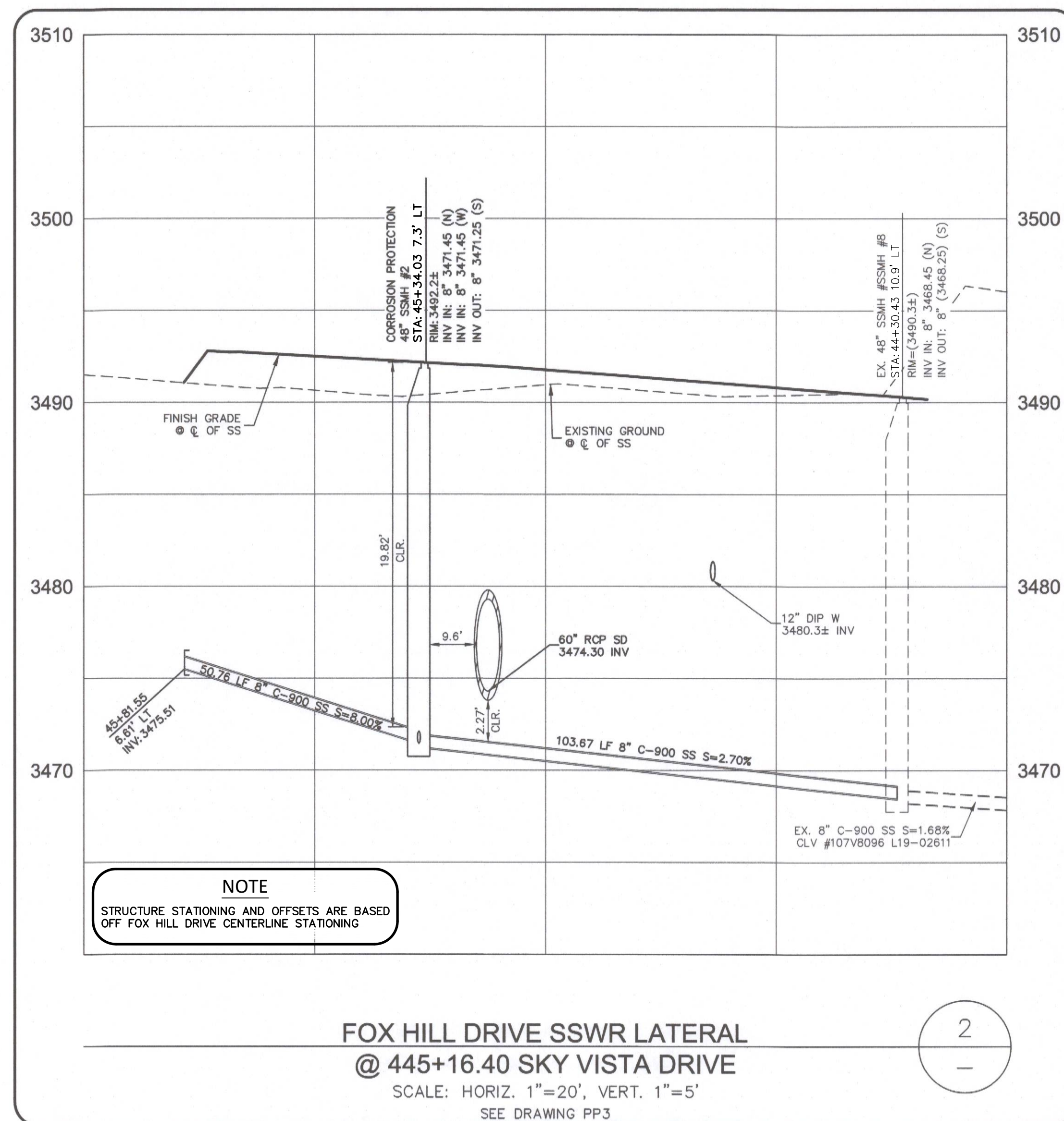
APPROVED FOR CONSTRUCTION

L#: L20-00376





DRAWING
LP3
18 OF 35 SHTS



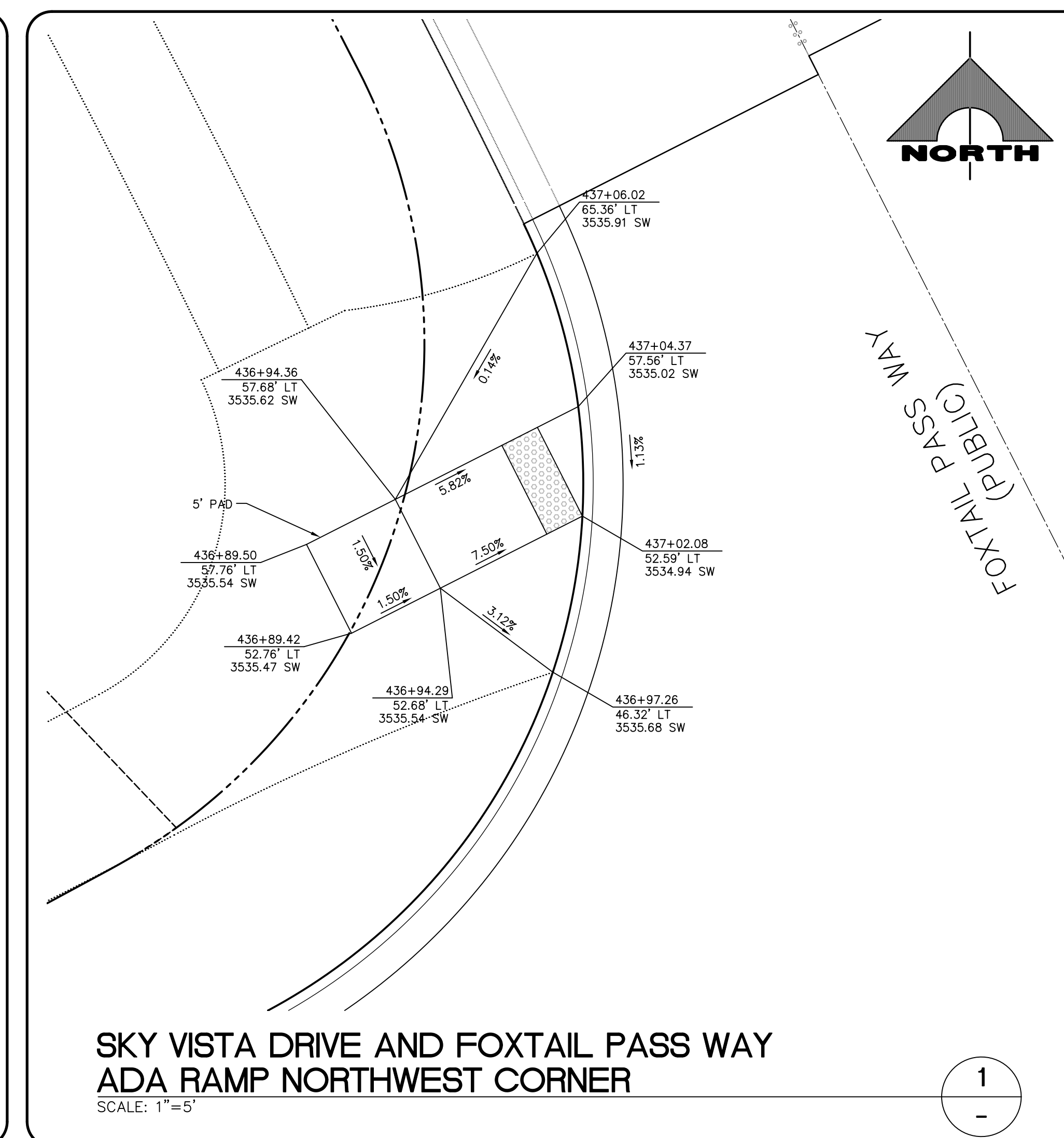
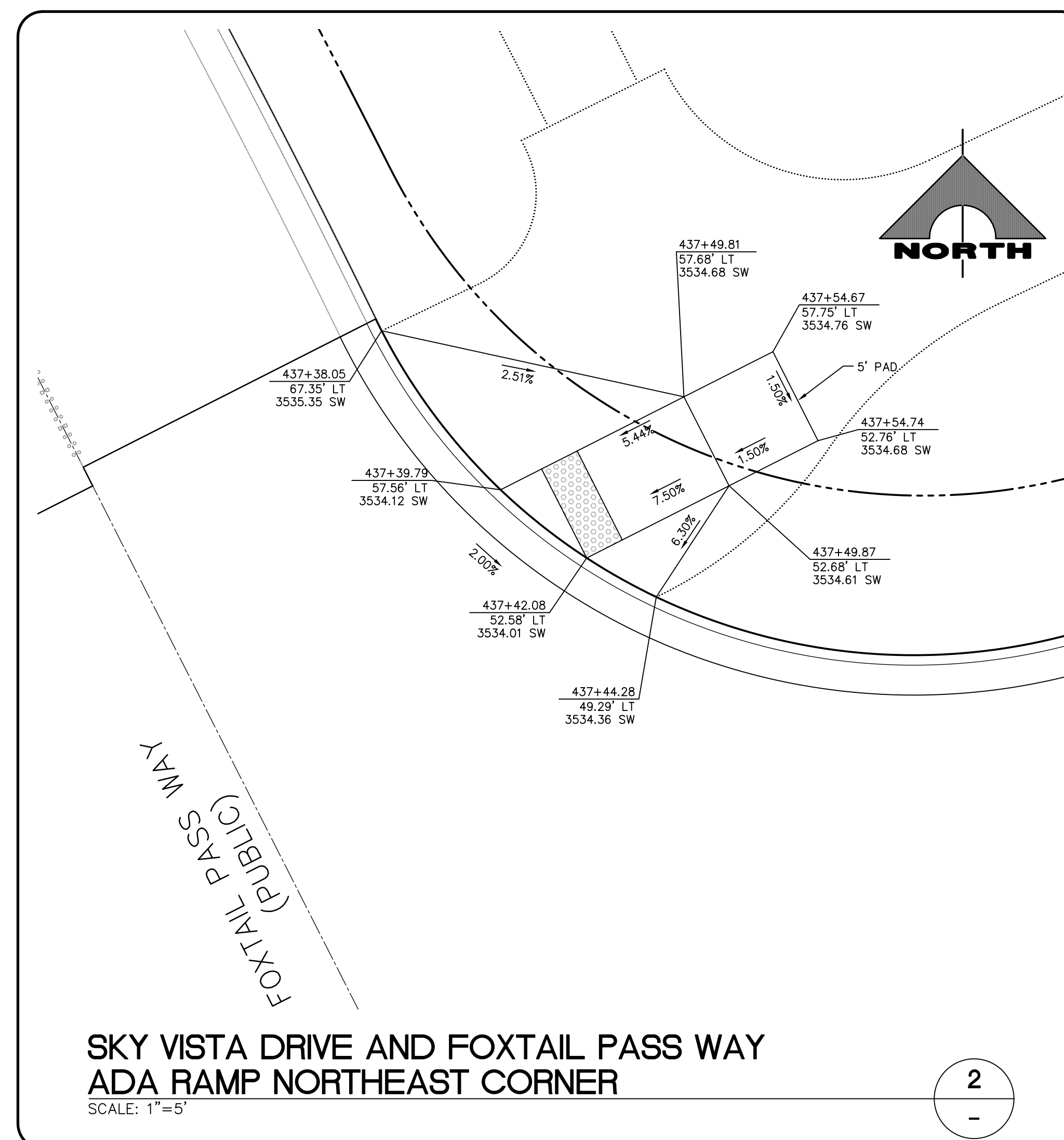
APPROVED FOR CONSTRUCTION

Discharge

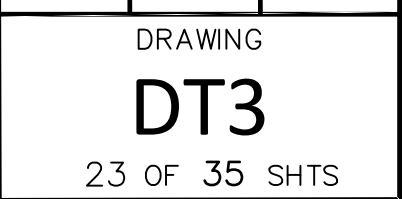
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

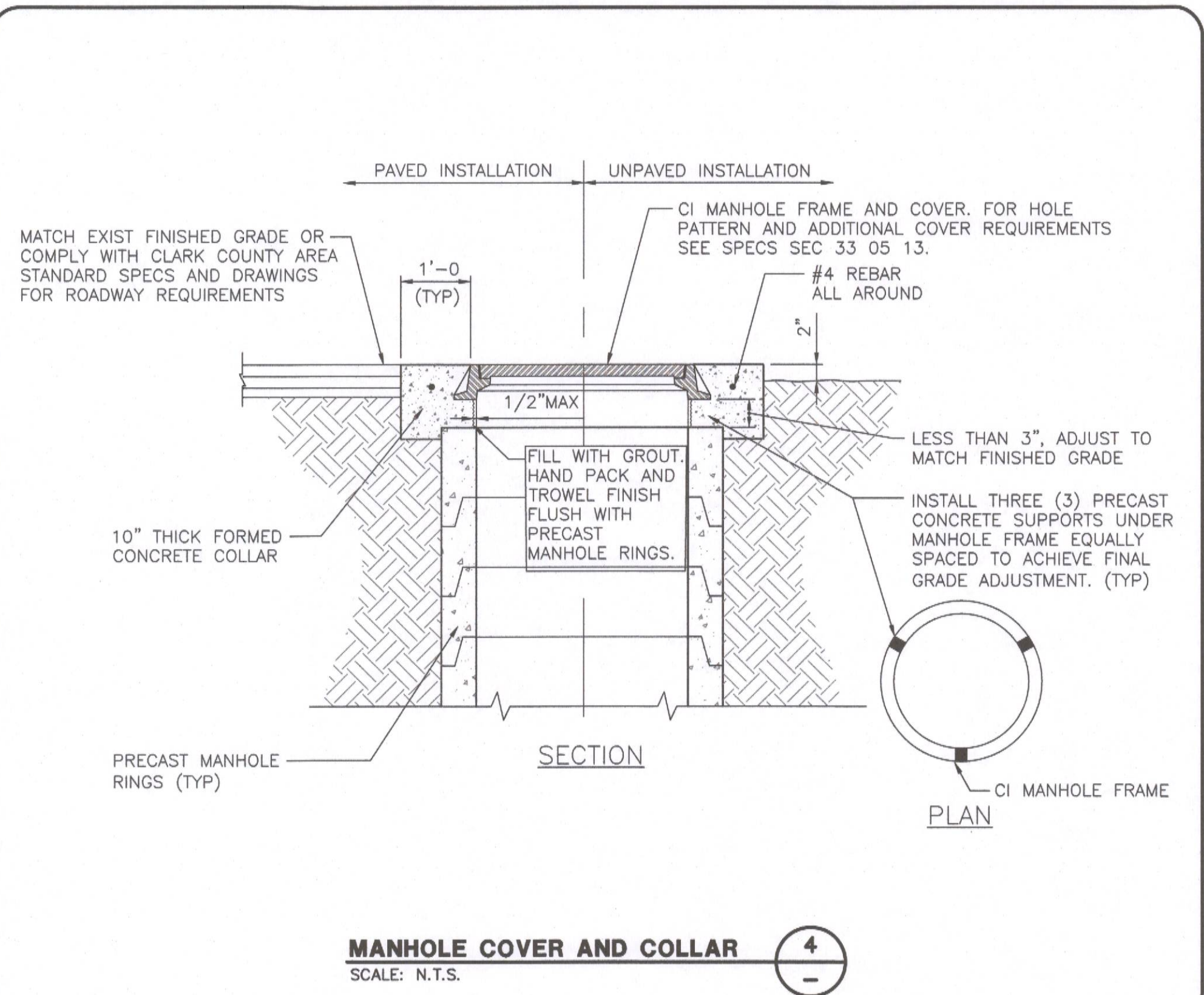
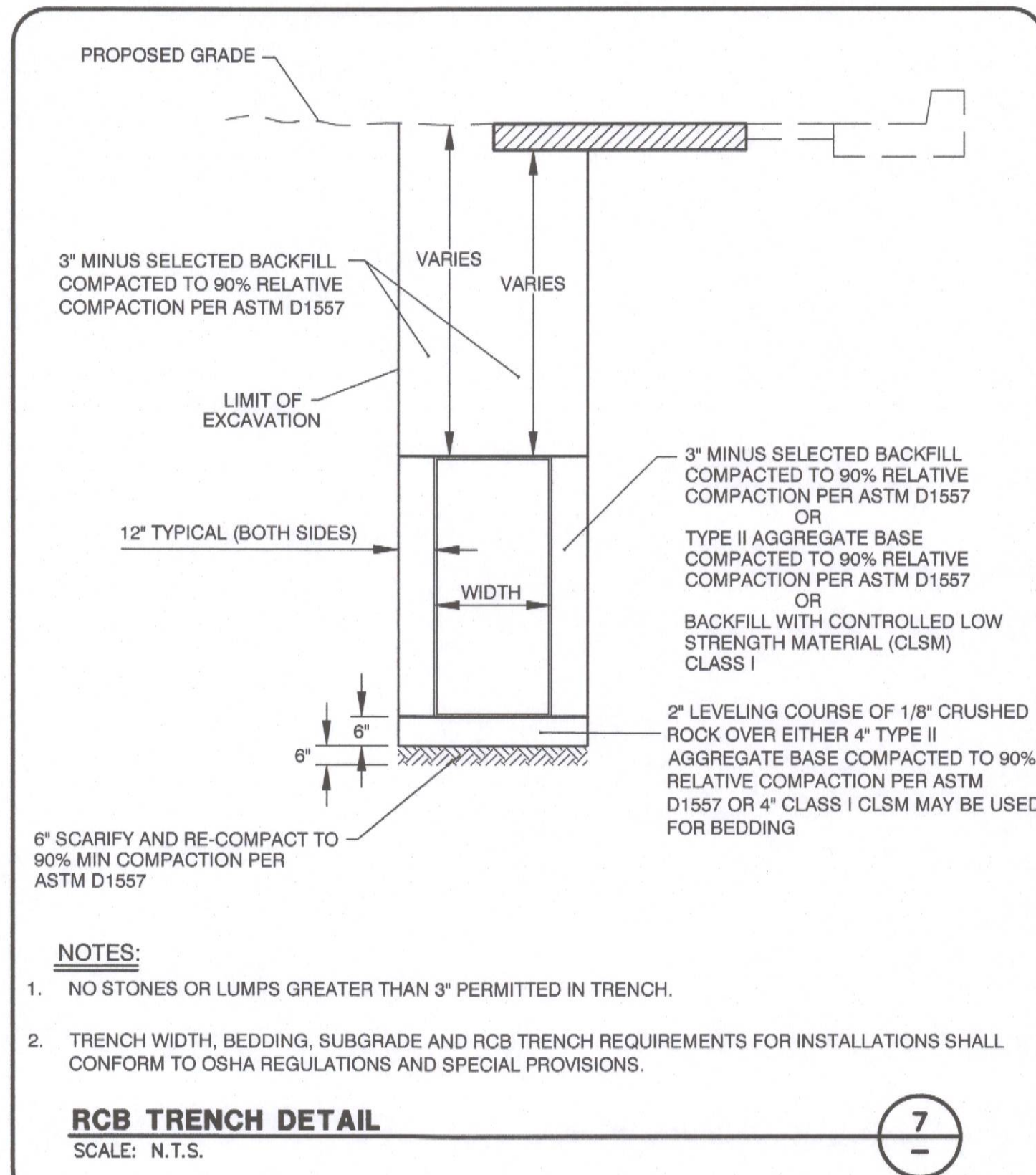
PROJECT NO. 136980 FIRST APPROVAL DATE: 12/3/2020

L#: L20-00376 CLV#: 107V8310

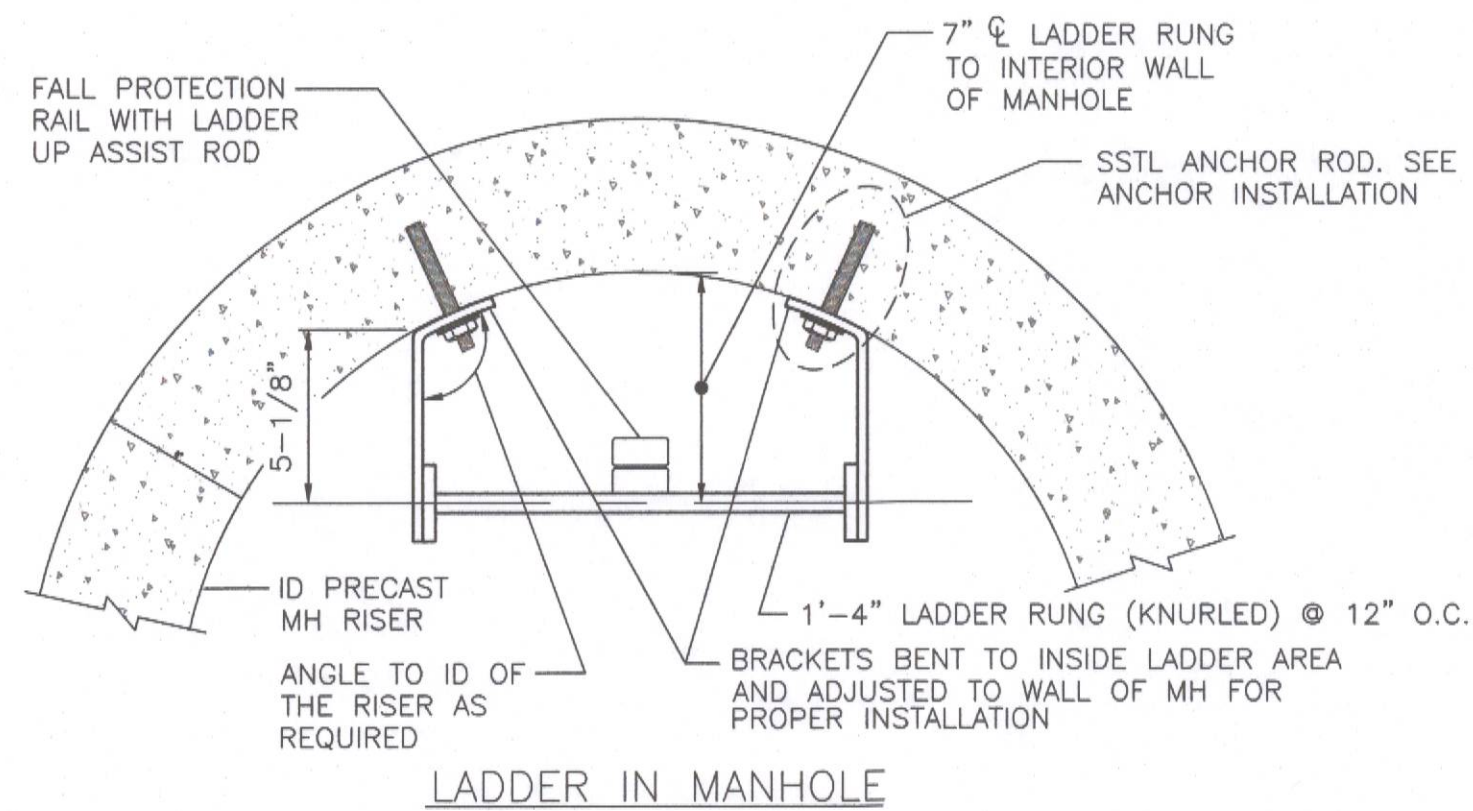
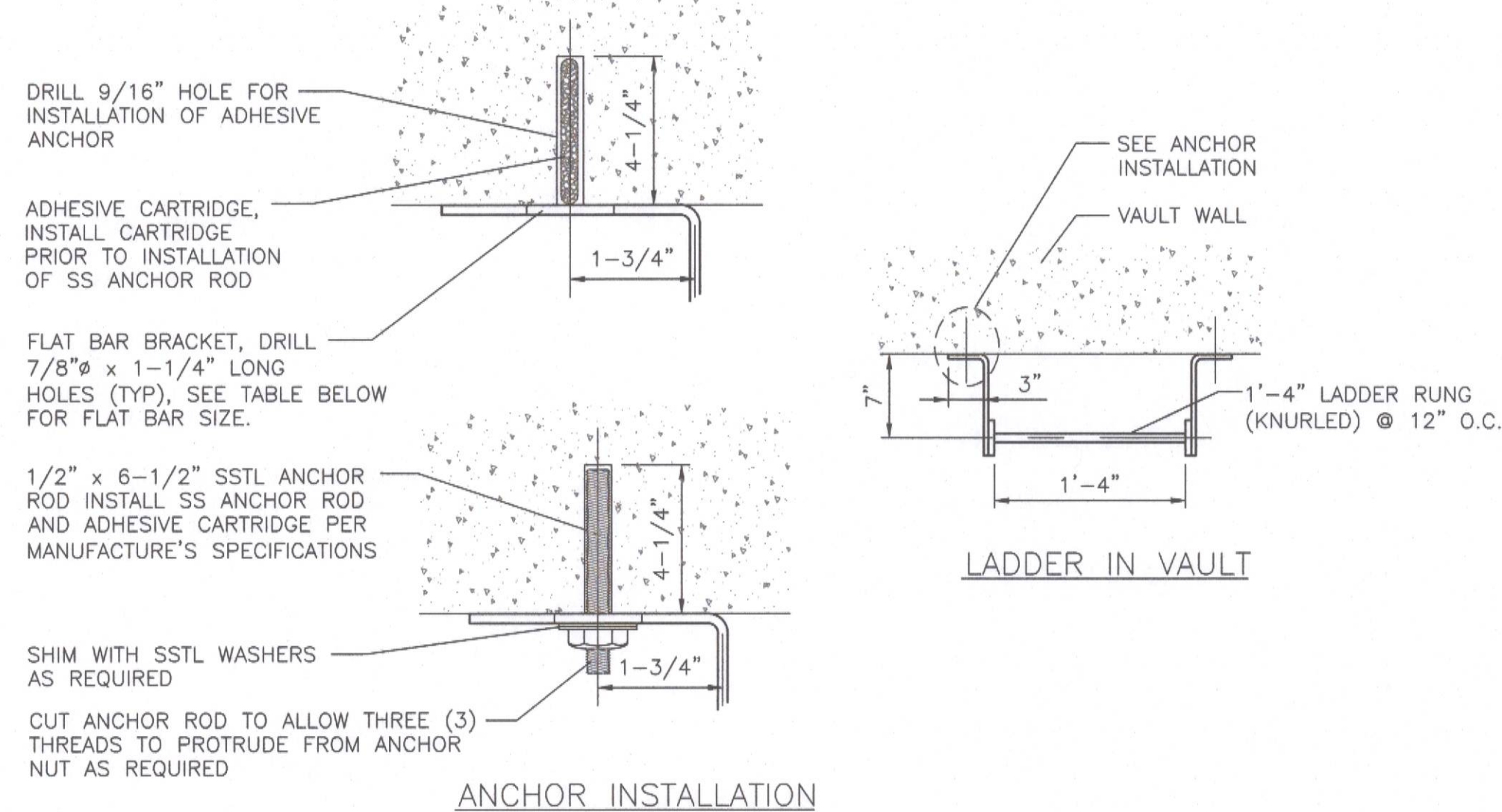


THE HOWARD HUGHES COMPANY, LLC			VILLAGE 25 SKY VISTA DRIVE IMPROVEMENTS (REDPOINT DRIVE TO KETTLE RIDGE DRIVE)			TYPICAL DETAILS AND SECTIONS 2			GC ENGINEERS \ SURVEYORS		1555 S. RAINBOW BLVD. LAS VEGAS, NV 89146 T: 702.804.2000 F: 702.804.2299 gowingengineering.com		PROJECT NO. 62025-206		DESIGN: LG/MF		DRAWN: AS		CHECK: LG/MF		PLOT DATE: 01-05-21		PLOT TIME: 09:40:59		REVISION		DATE		DESCRIPTION		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE		BY		DATE	
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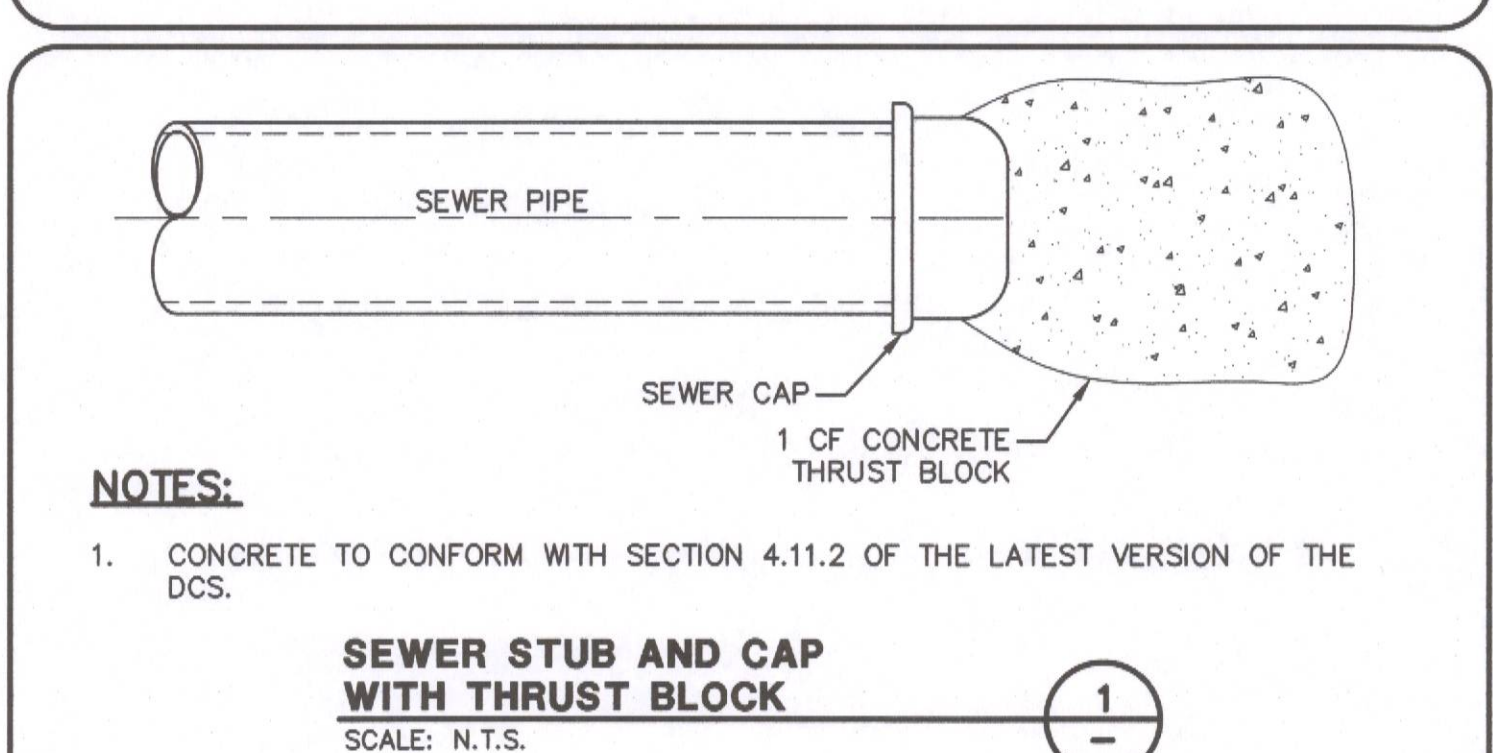
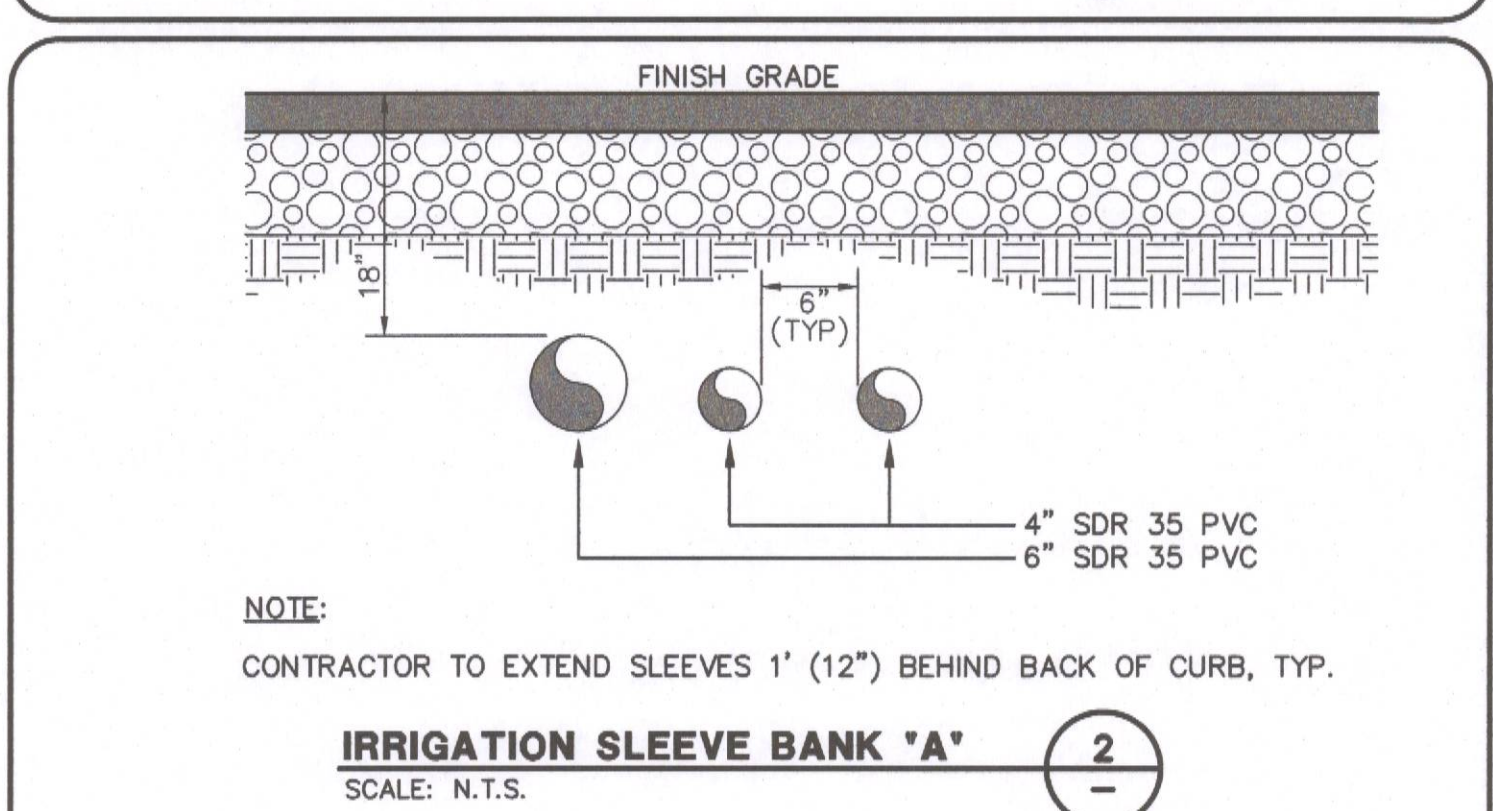
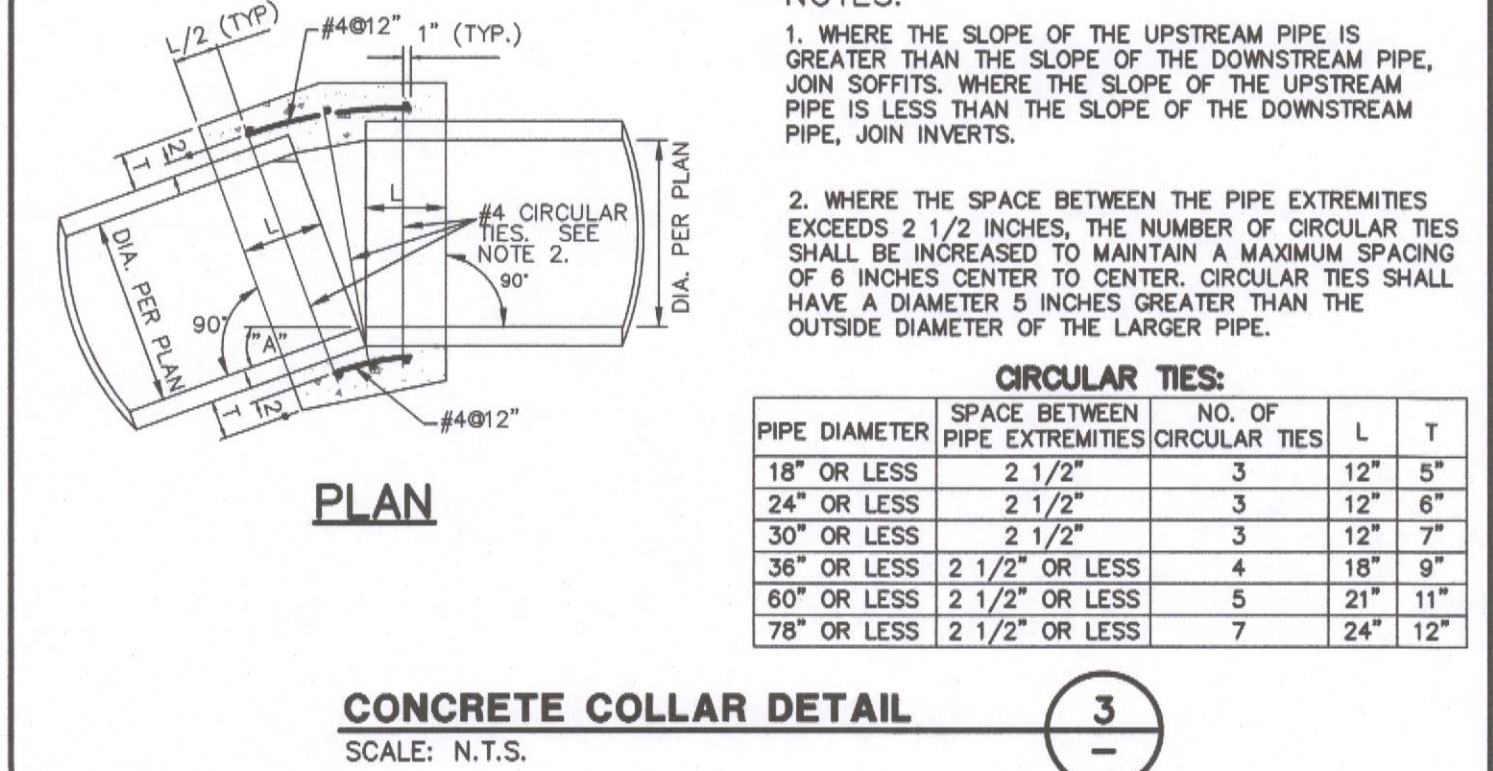
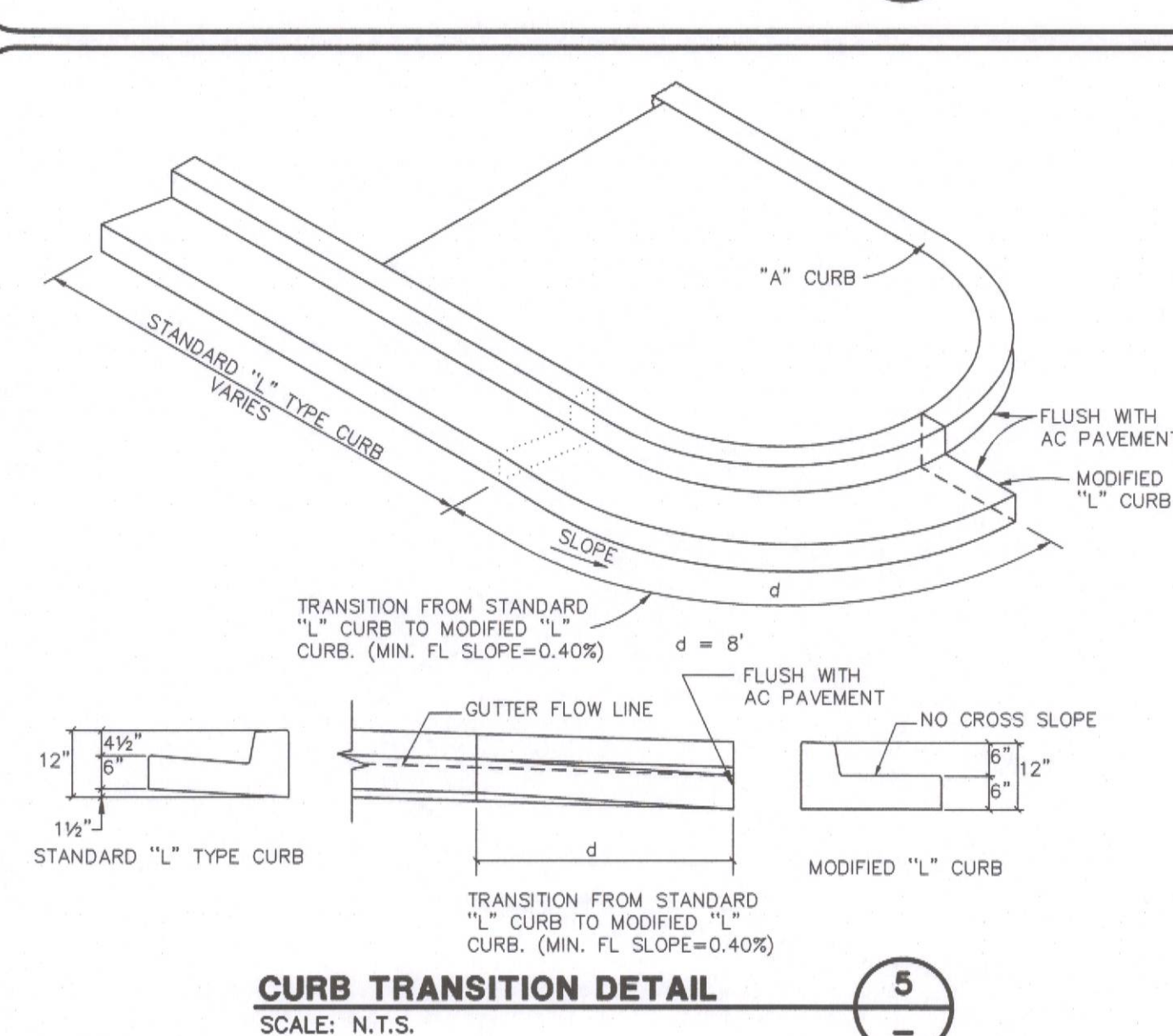
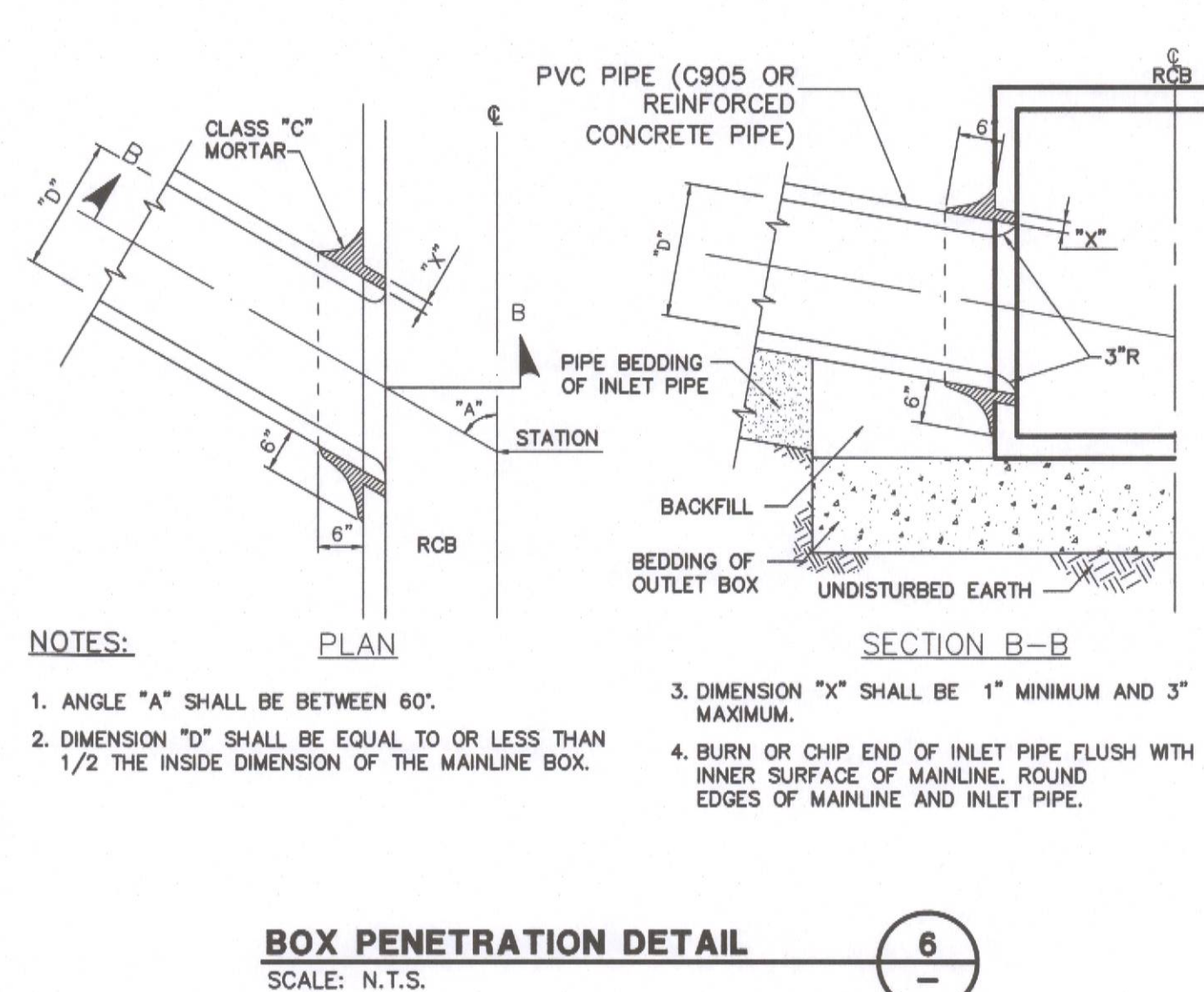
APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 136980 FIRST APPROVAL DATE: 12/3/2020



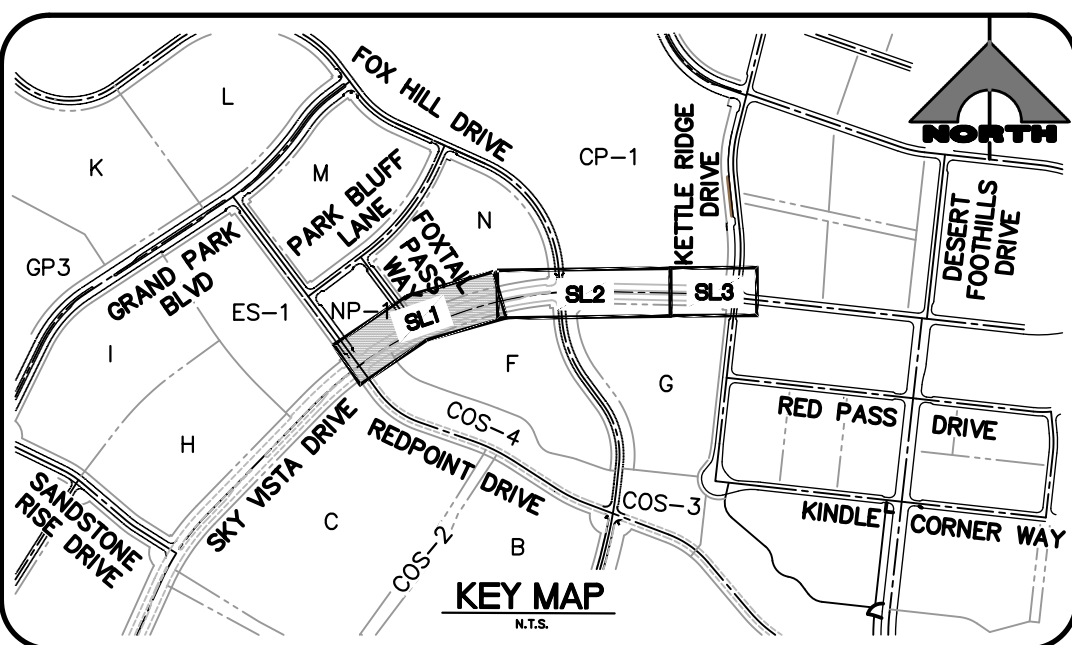
- NOTES:**
1. APPROVAL OF THE ENGINEER REQUIRED FOR ANY BRACKET SPACING OVER 5'-0" OC
2. LADDER SHALL BE MADE OF MILD CARBON STEEL WITH 3/4" DIA BAR RUNGS (KNURLED) PLUG WELDED TO RUNNERS.
3. GALVANIZE LADDER ASSEMBLY AFTER WELDING.

FLAT BAR SIZE	
LADDER LENGTH	FLAT BAR SIZE
5'-0" TO 20'-0"	3" x 3/8"
OVER 20'-0"	4" x 1/2"

LADDER INSTALLATION
SCALE: N.T.S.



DRAWING		
TR3		
27 OF 35 SHTS		



- 1
E PROPOSED NV ENERGY TRANSFORMER.
- 2
E SPM1: PROPOSED SERVICE PEDESTAL REFER TO ELECTRICAL SERVICE NOTES
3
E AND DETAIL 5 / DWG SL4.
- 4
E SPM2: PROPOSED SERVICE PEDESTAL REFER TO ELECTRICAL SERVICE NOTES
5
E AND DETAIL 5 / DWG SL4.
- 6
E ADD 2#4, 1#BGND TO EXISTING CONDUIT ONLY.
- 7
E SUMMERLIN TYPE 2 (BASE LUMINAIRE MODEL:
8
E SUM-XGBM-LED-26L-SIL-2-UE-DIM-27-70CRI-BRZ-NR-4397-SMBRKT) TWIN
9
E SINGLE LED STREETLIGHT PER SUMMERLIN LED LIGHTING ANALYSIS SUMMERLIN
10
E STANDARD STREET SECTIONS (RETROFIT) AND INTERSECTIONS (RETROFIT AND
11
E NEW CONSTRUCTION).
- 12
E SUMMERLIN TYPE 2 (BASE LUMINAIRE MODEL:
13
E SUM-XGBM-LED-26L-SIL-2-UE-DIM-27-70CRI-BRZ-NR-4397-SMBRKT)
14
E SINGLE LED STREETLIGHT PER SUMMERLIN LED LIGHTING ANALYSIS SUMMERLIN
15
E STANDARD STREET SECTIONS (RETROFIT) AND INTERSECTIONS (RETROFIT AND
16
E NEW CONSTRUCTION).
- 17
E SUMMERLIN TYPE 1B PEDESTRIAN POLE ON TYPE C FOUNDATION PER SSD E-1.
- 18
E SPM SUMMERLIN TYPE 2A MOD1 PER SSD E-1, WITH PROVISION FOR FUTURE
19
E TRAFFIC SIGNAL MAST ARM (250W).
- 20
E EXISTING STREETLIGHT.
- 21
E PROPOSED NO. 3-1/2 PULLBOX PER USD 326.
- 22
E PROPOSED RS-1 BOX PER NV ENERGY DESIGN.
- 23
E PROPOSED TYPE 200 PULLBOX [FUTURE TRAFFIC SIGNAL INTERCONNECT]
24
E PER USD 762.
- 25
E EXISTING TYPE 200 PULLBOX [TRAFFIC SIGNAL INTERCONNECT].
- 26
E EXISTING NO. 7 PULLBOX.
- 27
E EXISTING NO. 5 PULLBOX.
- 28
E EXISTING NO. 3-1/2 PULLBOX
- 29
E EXISTING P30 PULLBOX.
- 30
E PROPOSED 1-1/4" CONDUIT CONTAINING 2#4, 1#B GND [STREETLIGHTING
31
E CONDUIT].
- 32
E PROPOSED 2" CONDUIT CONTAINING 2#1/0, 1#4 GND [STREETLIGHTING
33
E CONDUIT].
- 34
E PROPOSED 1-1/4" CONDUIT W/ PULLSTRING
- 35
E PROPOSED 4" CONDUIT W/ PULLSTRING [FUTURE TRAFFIC SIGNAL
36
E INTERCONNECT WITH 2' RADIUS BEND].
- 37
E PROPOSED 2" CONDUIT CONTAINING 2#10, 1#10 GND [INTERSECTION
38
E LUMINAIRES] AND 2" CONDUIT ONLY [FUTURE SIGNAL].
- 39
E PROPOSED 5-3" CONDUIT [FOUR FOR INTERSECTION LUMINAIRES AND FUTURE
40
E TRAFFIC SIGNAL CONTAINING 2#10, 1#10 GND (ONE EACH) AND ONE FOR
41
E FUTURE LOOPS].
- 42
E PROPOSED 2" CONDUIT W/ PULLSTRING [PEDESTRIAN POLE SIGNAL].
- 43
E PROPOSED 3" CONDUIT W/ PULLSTRING [INTERSECTION LUMINAIRES AND
44
E FUTURE TRAFFIC SIGNAL].
- 45
E PROPOSED 3" CONDUIT CONTAINING 2#10, 1#10 GND [INTERSECTION
46
E LUMINAIRES AND FUTURE TRAFFIC SIGNAL].
- 47
E EXISTING 1-1/4" CONDUIT CONTAINING 2#4, 1#10 GND.
- 48
E EXISTING 1-1/4" CONDUIT ONLY.
- 49
E STUB AND CAP 5' MIN BEYOND EDGE OF CONSTRUCTION OR PULLBOX.
- 50
E PROPOSED 2" CONDUIT W/ PULLSTRING.
- 51
E PROPOSED CONDUIT AND CONDUCTORS PER NV ENERGY DESIGN.
- 52
E CONNECT TO EXISTING CONDUIT STUB.
- 53
E EXISTING 4" CONDUIT ONLY [FUTURE TRAFFIC SIGNAL INTERCONNECT WITH 2'
54
E RADIUS BEND].
- 55
E SUMMERLIN TYPE 6 (BASE LUMINAIRE MODEL:
56
E SUM-XGBM-LED-26L-SIL-2-UE-DIM-40-70CRI-BRZ-NR-4397-SMBRKT-
57
E CR7P) TWIN LED INTERSECTION LIGHT PER SUMMERLIN STANDARD STREET
58
E SECTIONS (RETROFIT) AND INTERSECTIONS (RETROFIT AND NEW CONSTRUCTION),
59
E WITH PROVISION FOR FUTURE TRAFFIC SIGNAL DUAL MAST ARM.
- 60
E EXISTING 3" CONDUIT WITH 2#10, 1#10 GND. [INTERSECTION LUMINAIRES AND
61
E TRAFFIC SIGNAL].
- 62
E EXISTING 2" CONDUIT CONTAINING 2#10, 1#10 GND.
- 63
E EXISTING TRAFFIC SIGNAL POLE WITH LIGHT
- 64
E PROPOSED NO. 7 PULLBOX PER USD 707.
- 65
E PROPOSED NO. 5 PULLBOX PER USD DWG NO. 326.
- 66
E PROPOSED 2" CONDUIT CONTAINING 2#3 [INTERSECTION LIGHTS] AND 1#3 GND.
- 67
E PROPOSED 3" CONDUIT CONTAINING 2#350 [INTERSECTION LIGHTS] AND 1#250
68
E GND.
- 69
E PROPOSED 2" CONDUIT W/ PULLSTRING [FUTURE SIGNAL CONTROLLER]
- 70
E EXISTING 3" CONDUIT W/PULLSTRING [INTERSECTION LUMINAIRES AND FUTURE
71
E TRAFFIC SIGNAL].

Call before you Dig Avoid cutting underground utility lines. It's costly. Call  OR 1-800-227-2600	FAST  Call before you UnderGround 1-702-432-5300 FREEDWAY AND ARTERIAL SYSTEM OF TRANSPORTATION	AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY CALL BEFORE YOU DO OVERHEAD  1-702-227-2929
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[illegible]

PROJECT NO.	62025-206
DESIGN:	LG/MF
DRAWN:	AS
CHECK:	LG/MF
PLOT DATE:	01-05-21
PLOT TIME:	11:38:40

GC
ENGINEERS SURVEYORS

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

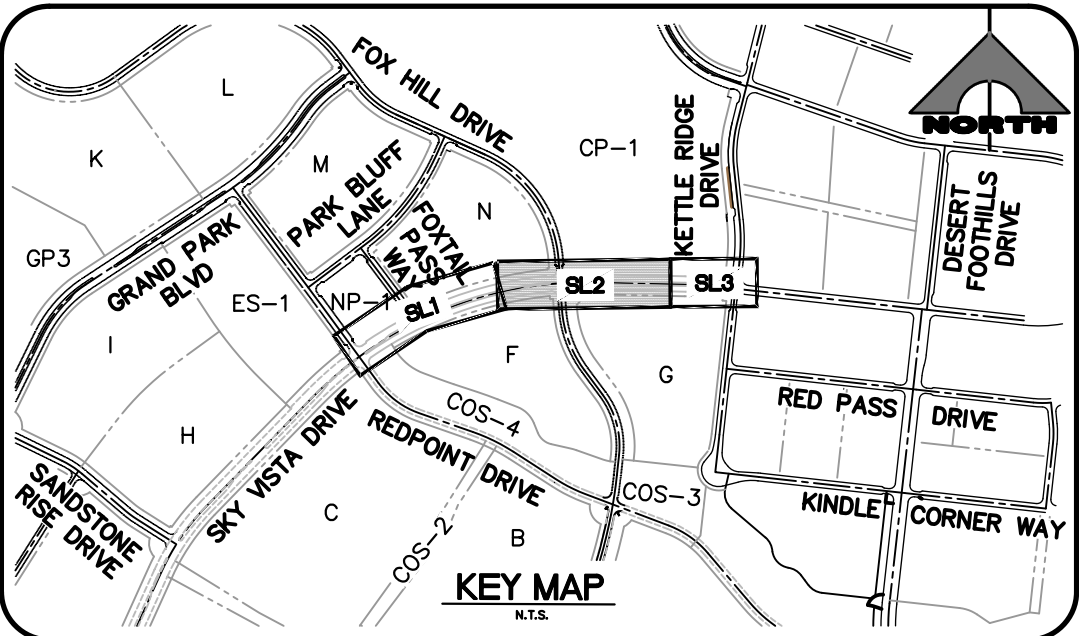
PROJECTS: MOX (60525-208), UMW/PRODUCTION (60525-206/629), S. DWG.
ALEXANDER SANTINHO

THE HOWARD HUGHES COMPANY, LLC

VILLAGE 25 SKY VISTA DRIVE IMPROVEMENTS
(REDPOINT DRIVE TO KETTLE RIDGE DRIVE)

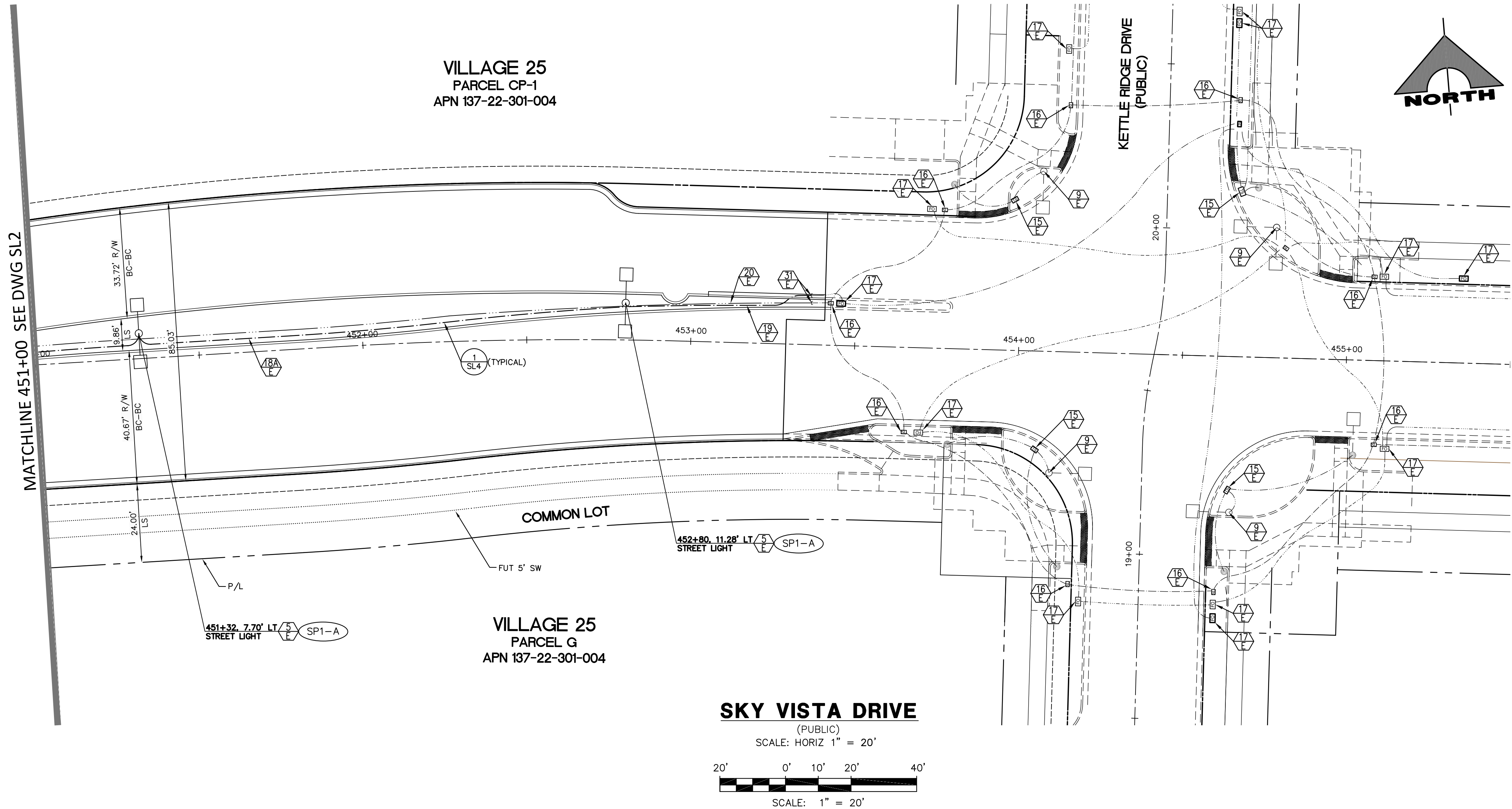
STREETLIGHT AND ELECTRICAL PLAN 1

DRAWING
SL1
28 OF 35 SHTS



- ① PROPOSED NV ENERGY TRANSFORMER.
- ② SP1: PROPOSED SERVICE PEDESTAL REFER TO ELECTRICAL SERVICE NOTES AND DETAIL 5 / DWG SL4.
- ③ SP2: PROPOSED SERVICE PEDESTAL REFER TO ELECTRICAL SERVICE NOTES AND DETAIL 5 / DWG SL4.
- ④ ADD 2#4, 1#BGND TO EXISTING CONDUIT ONLY.
- ⑤ SUMMERLIN TYPE 2 (BASE LUMINAIRE MODEL:
SUM-XGBM-LED-26L-SIL-2-U-E-DIM-27-70CRI-BRZ-NR-4397-SMBRKT) TWIN STANDARD STREET SECTIONS (RETROFIT) AND INTERSECTIONS (RETROFIT AND NEW CONSTRUCTION).
- ⑥ SUMMERLIN TYPE 2 (BASE LUMINAIRE MODEL:
SUM-XGBM-LED-26L-SIL-2-U-E-DIM-27-70CRI-BRZ-NR-4397-SMBRKT) SINGLE LED STREETLIGHT PER SUMMERLIN LED LIGHTING ANALYSIS SUMMERLIN STANDARD STREET SECTIONS (RETROFIT) AND INTERSECTIONS (RETROFIT AND NEW CONSTRUCTION).
- ⑦ SUMMERLIN TYPE 1B PEDESTRIAN POLE ON TYPE C FOUNDATION PER SSD E-1.
- ⑧ SUMMERLIN TYPE 2A MOD1 PER SSD E-1, WITH PROVISION FOR FUTURE TRAFFIC SIGNAL MAST ARM (250W).
- ⑨ EXISTING STREETLIGHT.
- ⑩ PROPOSED NO. 3-1/2 PULLBOX PER USD 326.
- ⑪ PROPOSED RS-1 BOX PER NV ENERGY DESIGN.
- ⑫ PROPOSED TYPE 200 PULLBOX [FUTURE TRAFFIC SIGNAL INTERCONNECT] PER USD 762.
- ⑬ EXISTING TYPE 200 PULLBOX [TRAFFIC SIGNAL INTERCONNECT].
- ⑭ EXISTING NO. 7 PULLBOX.
- ⑮ EXISTING NO. 5 PULLBOX.
- ⑯ EXISTING NO. 3-1/2 PULLBOX
- ⑰ EXISTING P30 PULLBOX.
- ⑱ PROPOSED 1-1/4" CONDUIT CONTAINING 2#4, 1#B GND [STREETLIGHTING CONDUIT]
- Ⓐ PROPOSED 2" CONDUIT CONTAINING 2#1/0, 1#4 GND [STREETLIGHTING CONDUIT]
- Ⓑ PROPOSED 1-1/4" CONDUIT W/ PULLSTRING
- Ⓒ PROPOSED 4" CONDUIT W/ PULLSTRING [FUTURE TRAFFIC SIGNAL INTERCONNECT WITH 2' RADIUS BENDS].
- Ⓓ PROPOSED 2" CONDUIT CONTAINING 2#10, 1#10 GND [INTERSECTION LUMINAIRES] AND 2" CONDUIT ONLY [FUTURE INTERSECTION].
- Ⓔ PROPOSED 5-3" CONDUIT [FOUR FOR INTERSECTION LUMINAIRES AND FUTURE TRAFFIC SIGNAL CONTAINING 2#10, 1#10 GND (ONE EACH) AND ONE FOR FUTURE LOOPS].
- Ⓕ PROPOSED 2" CONDUIT W/ PULLSTRING [PEDESTRIAN POLE SIGNAL].
- Ⓖ PROPOSED 3" CONDUIT W/ PULLSTRING [INTERSECTION LUMINAIRES AND FUTURE TRAFFIC SIGNAL].
- Ⓗ PROPOSED 3" CONDUIT CONTAINING 2#10, 1#10 GND [INTERSECTION LUMINAIRES AND FUTURE TRAFFIC SIGNAL].
- Ⓘ EXISTING 1-1/4" CONDUIT CONTAINING 2#4, 1#10 GND.
- Ⓚ EXISTING 1-1/4" CONDUIT ONLY.
- Ⓛ STUB AND CAP 5' MIN BEYOND EDGE OF CONSTRUCTION OR PULLBOX.
- Ⓜ PROPOSED 2" CONDUIT W/ PULLSTRING.
- Ⓢ PROPOSED CONDUIT AND CONDUCTORS PER NV ENERGY DESIGN.
- ⑳ CONNECT TO EXISTING CONDUIT SUB.
- ㉑ EXISTING 4" CONDUIT ONLY [FUTURE TRAFFIC SIGNAL INTERCONNECT WITH 2' RADIUS BENDS].
- ㉒ SUMMERLIN TYPE 6 (BASE LUMINAIRE MODEL:
SUM-XGBM-LED-26L-SIL-2-U-E-DIM-40-70CRI-BRZ-NR-4397-SMBRKT-CRP7) TWIN LED INTERSECTION LIGHT PER SUMMERLIN STANDARD STREET SECTIONS (RETROFIT) AND INTERSECTIONS (RETROFIT AND NEW CONSTRUCTION), WITH PROVISION FOR FUTURE TRAFFIC SIGNAL DUAL MAST ARM.
- ㉓ EXISTING 3" CONDUIT WITH 2#10, 1#10 GND. [INTERSECTION LUMINAIRES AND TRAFFIC SIGNAL.]
- ㉔ EXISTING 2" CONDUIT CONTAINING 2#10, 1#10 GND.
- ㉕ EXISTING TRAFFIC SIGNAL POLE WITH LIGHT
- ㉖ PROPOSED NO. 7 PULLBOX PER USD 707.
- ㉗ PROPOSED NO. 5 PULLBOX PER USD DWG NO. 326.
- ㉘ PROPOSED 2" CONDUIT CONTAINING 2#3 [INTERSECTION LIGHTS] AND 1#3 GND.
- ㉙ PROPOSED 3" CONDUIT CONTAINING 2#350 [INTERSECTION LIGHTS] AND 1#250 GND.
- ㉚ PROPOSED 2" CONDUIT W/ PULLSTRING [FUTURE SIGNAL CONTROLLER]
- ㉛ EXISTING 3" CONDUIT W/PULLSTRING [INTERSECTION LUMINAIRES AND FUTURE TRAFFIC SIGNAL].

Call before you Dig Avoid cutting underground utility lines. It's costly. Call  OR 1-800-227-2800	<i>FAST</i>  Call before you UnderGround 1-702-452-5300 FREeway AND ARTERIAL SYSTEM OF TRANSPORTATION	AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.  CALL BEFORE YOU DO OVERHEAD 1-702-227-2929
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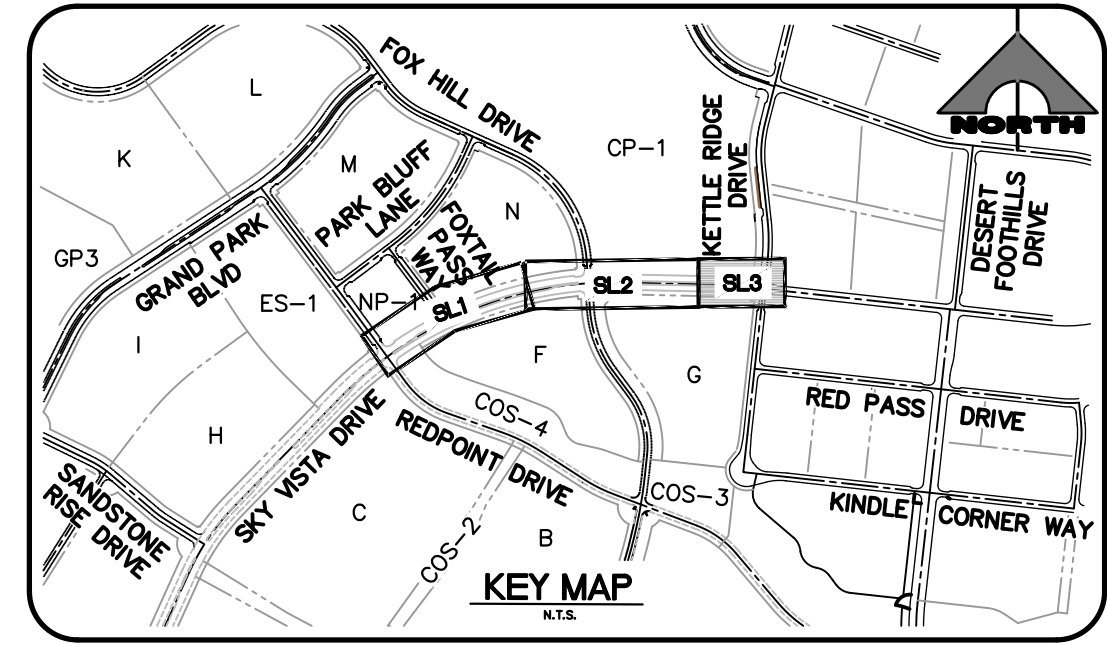
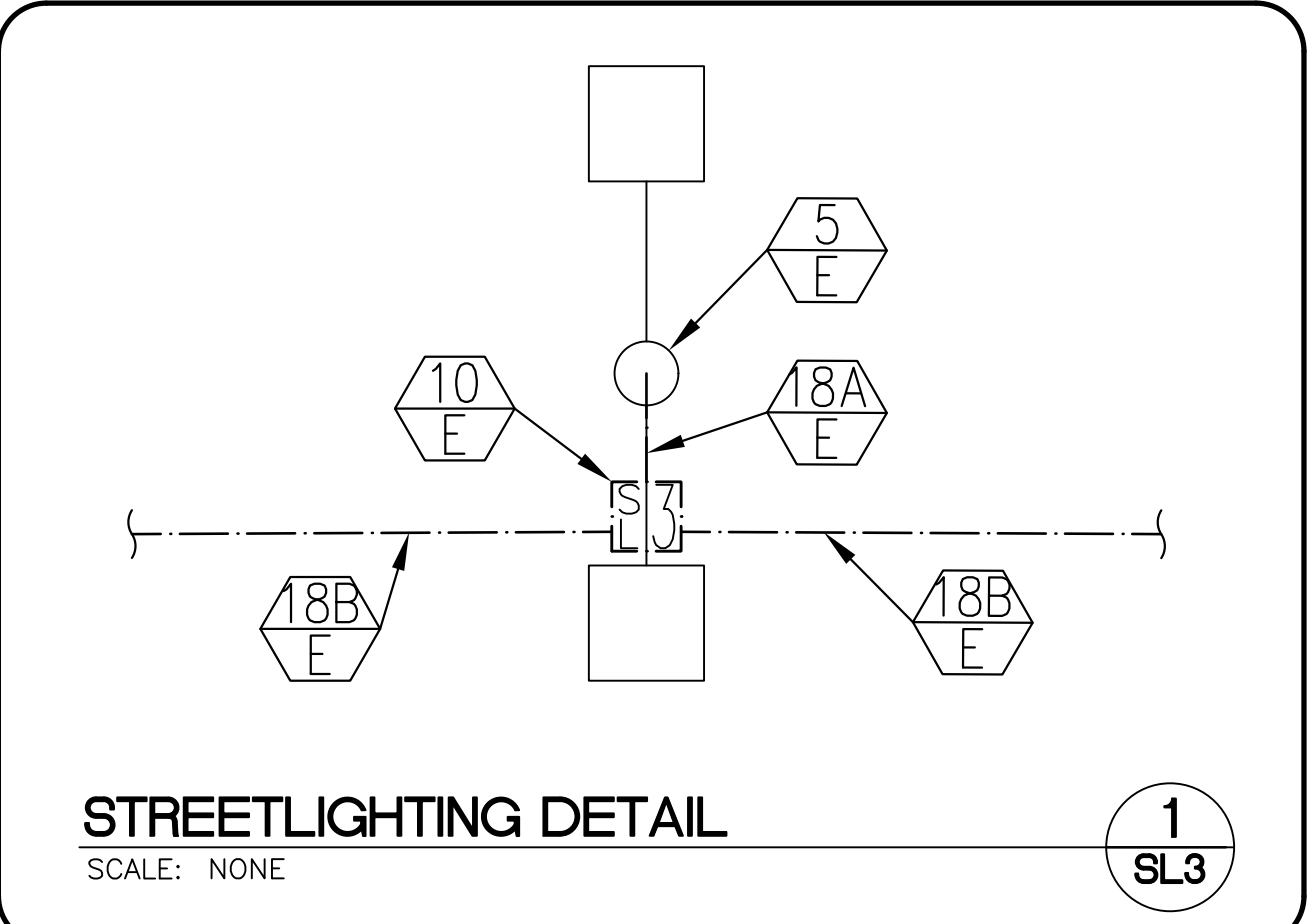


SKY VISTA DRIVE
(PUBLIC)
SCALE: HORIZ 1" = 20'

20' 0' 10' 20' 40'

SCALE: 1" = 20'

PROFESSIONAL ENGINEER - STATE OF NEVADA
JOHN T. BROWN
Exp. 12/31/2022
ELECTRICAL
No. 16033
DATE: 1/5/21
FOR ELECTRICAL COMPONENTS ONLY



- ELECTRICAL CONSTRUCTION NOTES**
- PROPOSED NV ENERGY TRANSFORMER.
 - SP1: PROPOSED SERVICE PEDESTAL. REFER TO ELECTRICAL SERVICE NOTES AND DETAIL 5 / DWG SL4.
 - SP2: PROPOSED SERVICE PEDESTAL. REFER TO ELECTRICAL SERVICE NOTES AND DETAIL 5 / DWG SL4.
 - ADD 2#4, 1#8 GND TO EXISTING CONDUIT ONLY.
 - SUMMERLIN TYPE 2 (BASE LUMINAIRE MODEL: SUM-XGBM-LED-26L-SIL-2-UE-DIM-27-70CRI-BRZ-NR-4397-SMBRKT) TWIN LED STREETLIGHT PER SUMMERLIN LED LIGHTING ANALYSIS SUMMERLIN STANDARD STREET SECTIONS (RETROFIT) AND INTERSECTIONS (RETROFIT AND NEW CONSTRUCTION).
 - SUMMERLIN TYPE 2 (BASE LUMINAIRE MODEL: SUM-XGBM-LED-26L-SIL-2-UE-DIM-27-70CRI-BRZ-NR-4397-SMBRKT) SINGLE LED STREETLIGHT PER SUMMERLIN LED LIGHTING ANALYSIS SUMMERLIN STANDARD STREET SECTIONS (RETROFIT) AND INTERSECTIONS (RETROFIT AND NEW CONSTRUCTION).
 - SUMMERLIN TYPE 1B PEDESTAL POLE ON TYPE C FOUNDATION PER SSD E-1.
 - SUMMERLIN TYPE 2A MOD1 PER SSD E-1, WITH PROVISION FOR FUTURE TRAFFIC SIGNAL MAST ARM (250W).
 - EXISTING STREETLIGHT.
 - PROPOSED NO. 3-1/2 PULLBOX PER USD 326.
 - PROPOSED RS-1 BOX PER NV ENERGY DESIGN.
 - PROPOSED TYPE 200 PULLBOX [FUTURE TRAFFIC SIGNAL INTERCONNECT] PER USD 762.
 - EXISTING TYPE 200 PULLBOX [TRAFFIC SIGNAL INTERCONNECT].
 - EXISTING NO. 7 PULLBOX.
 - EXISTING NO. 5 PULLBOX.
 - EXISTING NO. 3-1/2 PULLBOX.
 - EXISTING P30 PULLBOX.
 - PROPOSED 1-1/4" CONDUIT CONTAINING 2#4, 1#8 GND [STREETLIGHTING CONDUIT].
 - PROPOSED 2" CONDUIT CONTAINING 2#1/0, 1#4 GND [STREETLIGHTING CONDUIT].
 - PROPOSED 1-1/4" CONDUIT W/ PULLSTRING.
 - PROPOSED 4" CONDUIT W/ PULLSTRING [FUTURE TRAFFIC SIGNAL INTERCONNECT WITH 2' RADIUS BENDS].
 - PROPOSED 2" CONDUIT CONTAINING 2#10, 1#10 GND [INTERSECTION LUMINAIRES] AND 2" CONDUIT ONLY [FUTURE TRAFFIC SIGNAL].
 - PROPOSED 5-3" CONDUIT [FOUR FOR INTERSECTION LUMINAIRES AND FUTURE TRAFFIC SIGNAL CONTAINING 2#10, 1#10 GND (ONE EACH) AND ONE FOR FUTURE LOOPS].
 - PROPOSED 2" CONDUIT W/ PULLSTRING [PEDESTRIAN POLE SIGNAL].
 - PROPOSED 3" CONDUIT W/ PULLSTRING [INTERSECTION LUMINAIRES AND FUTURE TRAFFIC SIGNAL].
 - PROPOSED 3" CONDUIT CONTAINING 2#10, 1#10 GND [INTERSECTION LUMINAIRES AND FUTURE TRAFFIC SIGNAL].
 - EXISTING 1-1/4" CONDUIT CONTAINING 2#4, 1#10 GND.
 - EXISTING 1-1/4" CONDUIT ONLY.
 - STUB AND CAP 5' MIN BEYOND EDGE OF CONSTRUCTION OR PULLBOX.
 - PROPOSED 2" CONDUIT W/ PULLSTRING.
 - PROPOSED CONDUIT AND CONDUCTORS PER NV ENERGY DESIGN.
 - CONNECT TO EXISTING CONDUIT STUB.
 - EXISTING 4" CONDUIT ONLY [FUTURE TRAFFIC SIGNAL INTERCONNECT WITH 2' RADIUS BENDS].
 - SUMMERLIN TYPE 6 (BASE LUMINAIRE MODEL: SUM-XGBM-LED-26L-SIL-2-UE-DIM-40-70CRI-BRZ-NR-4397-SMBRKT-CR7P) TWIN LED INTERSECTION LIGHT PER SUMMERLIN STANDARD STREET SECTIONS (RETROFIT) AND INTERSECTIONS (RETROFIT AND NEW CONSTRUCTION), WITH PROVISION FOR FUTURE TRAFFIC SIGNAL DUAL MAST ARM.
 - EXISTING 3" CONDUIT WITH 2#10, 1#10 GND. [INTERSECTION LUMINAIRES AND TRAFFIC SIGNAL]
 - EXISTING 2" CONDUIT CONTAINING 2#10, 1#10 GND.
 - EXISTING TRAFFIC SIGNAL POLE WITH LIGHT
 - PROPOSED NO. 7 PULLBOX PER USD 707.
 - PROPOSED NO. 5 PULLBOX PER USD DWG NO. 326.
 - PROPOSED 2" CONDUIT CONTAINING 2#3 [INTERSECTION LIGHTS] AND 1#3 GND.
 - PROPOSED 3" CONDUIT CONTAINING 2#350 [INTERSECTION LIGHTS] AND 1#250 GND.
 - PROPOSED 2" CONDUIT W/ PULLSTRING [FUTURE SIGNAL CONTROLLER]
 - EXISTING 3" CONDUIT W/PULLSTRING [INTERSECTION LUMINAIRES AND FUTURE TRAFFIC SIGNAL].

Call before you Dig
Avoid hitting overhead power lines. It's costly.

Call
1-800-227-2600

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

THE HOWARD HUGHES COMPANY, LLC
VILLAGE 25 SKY VISTA DRIVE IMPROVEMENTS
(REDPOINT DRIVE TO KETTLE RIDGE DRIVE)
STREETLIGHT AND ELECTRICAL PLAN 3

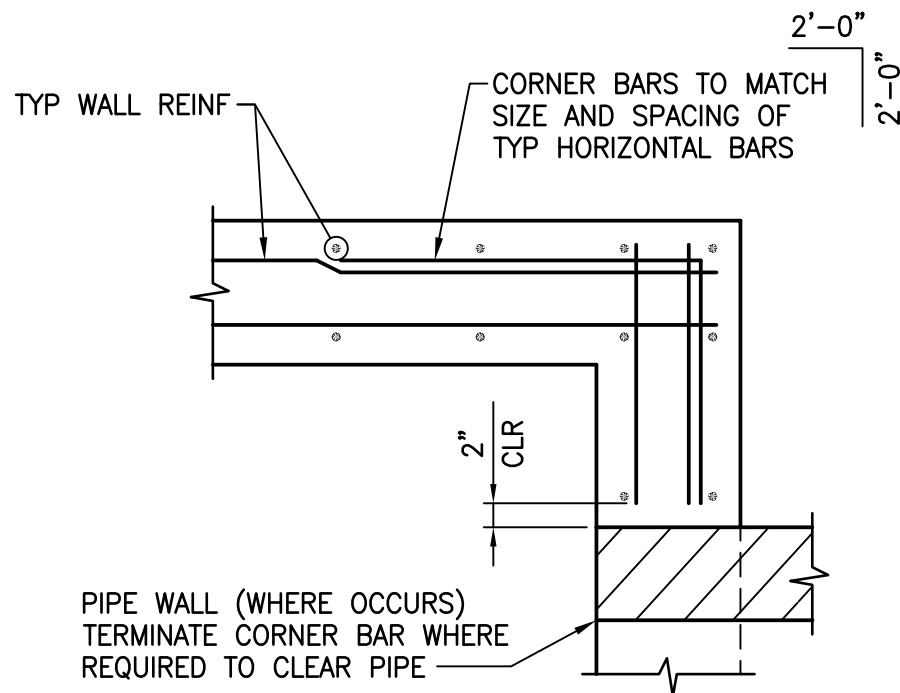
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DESIGN: LG/MF
DRAWING: AS
CHECK: LG/MF
PLOT DATE: 01-05-21
PLOT TIME: 11:39:06

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

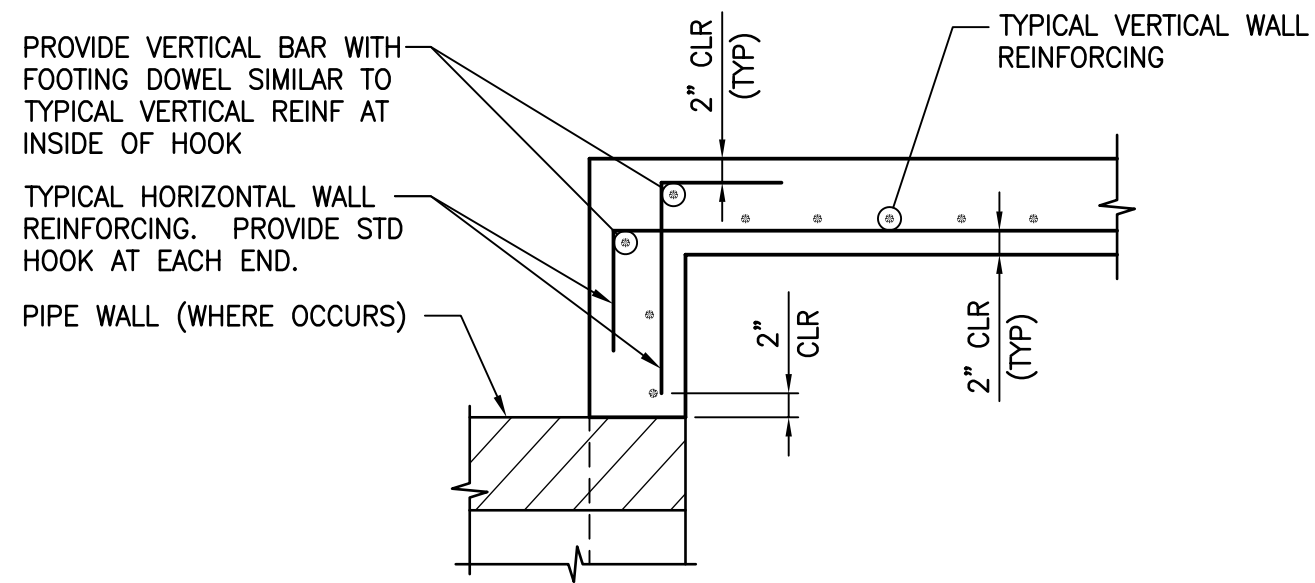
ENGINEERS & SURVEYORS
ALEXANDER SANTAGO

PROFESSIONAL ENGINEER - STATE OF NEVADA
MICHAEL FANG
Exp. 06/30/2021
CIVIL
No. 24461

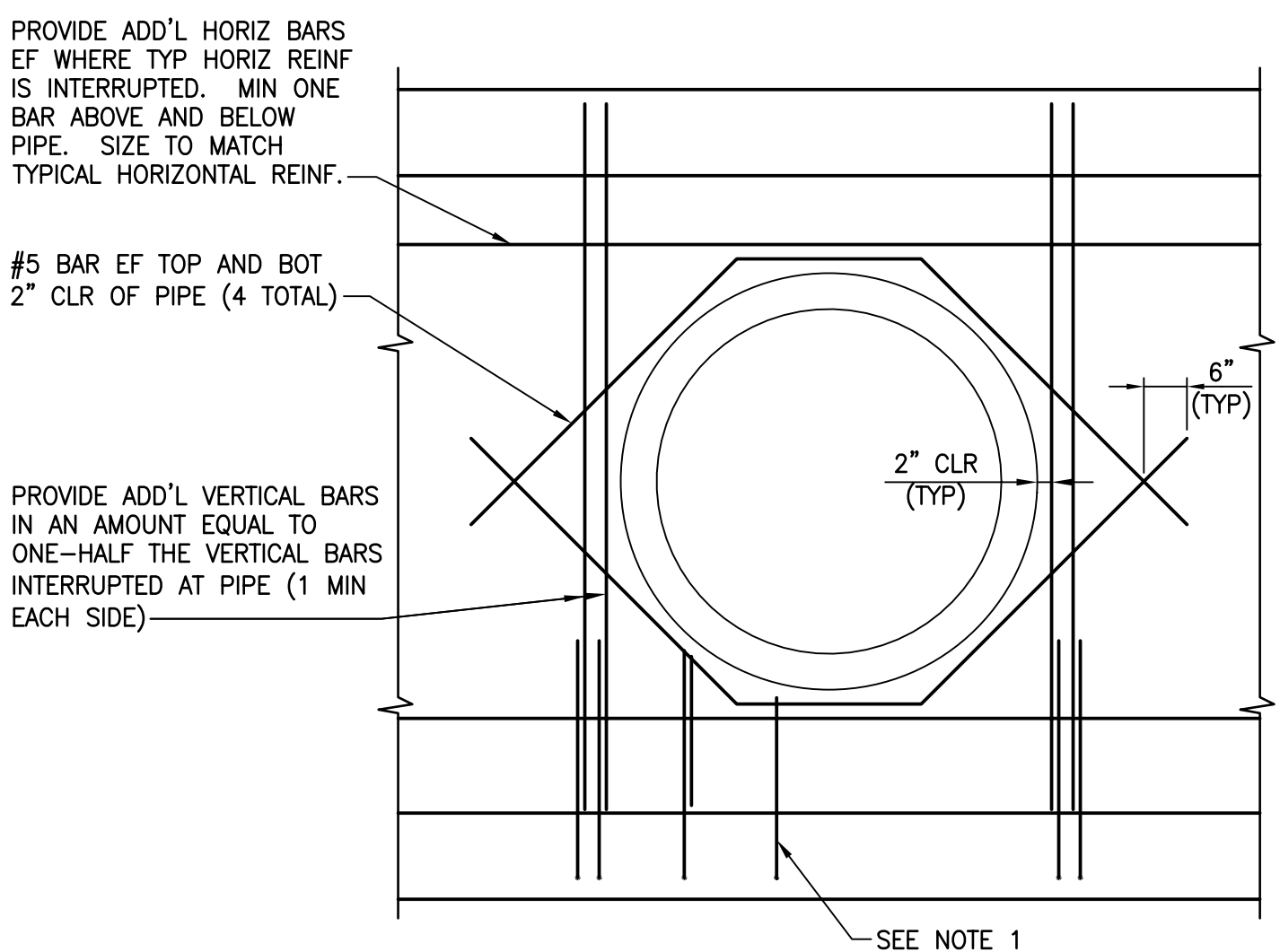
DRAWING
SL3
30 OF 35 SHTS



5 WALL CORNER DETAIL II
SCALE: NTS

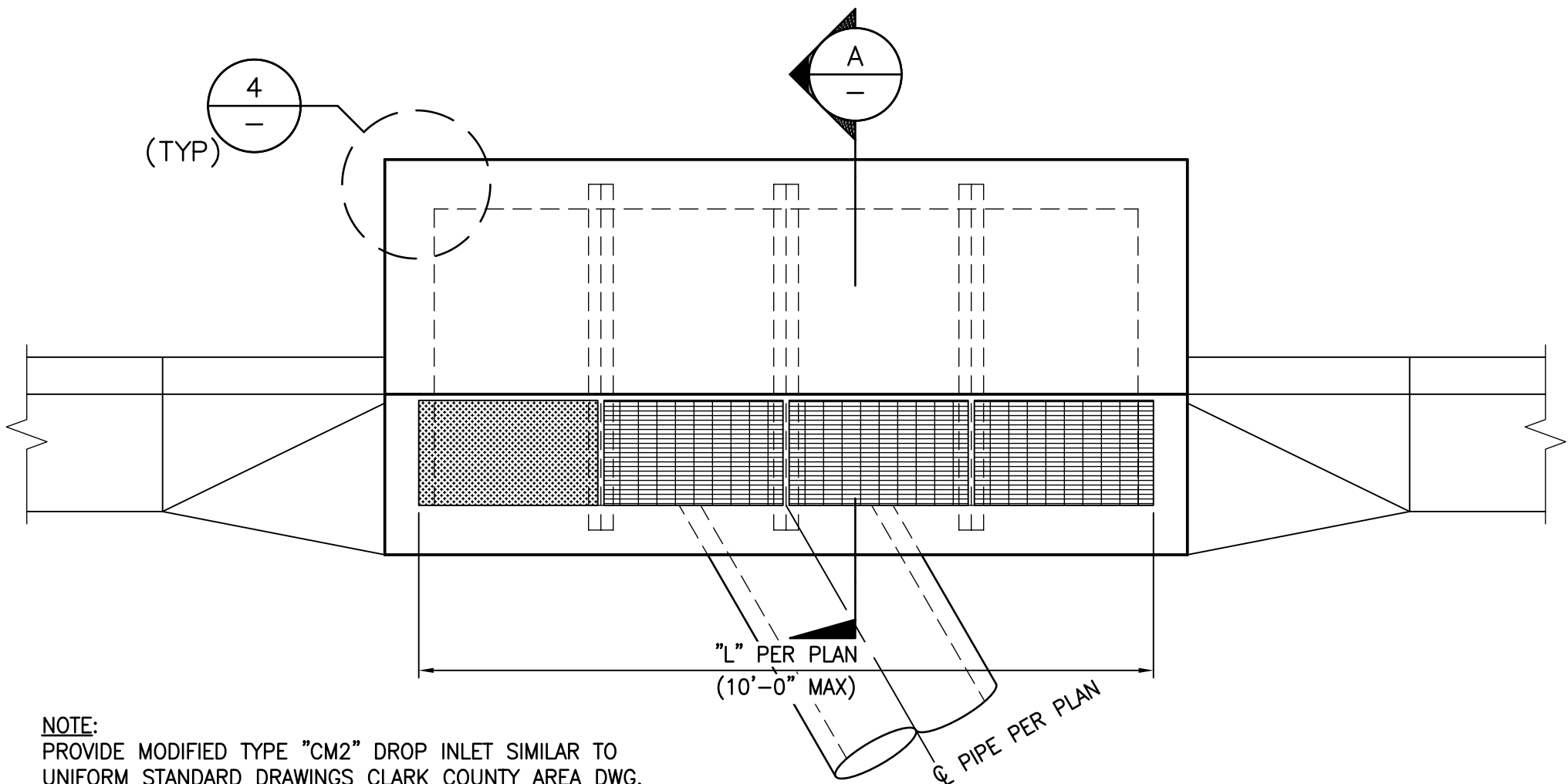


4 WALL CORNER DETAIL
SCALE: NTS



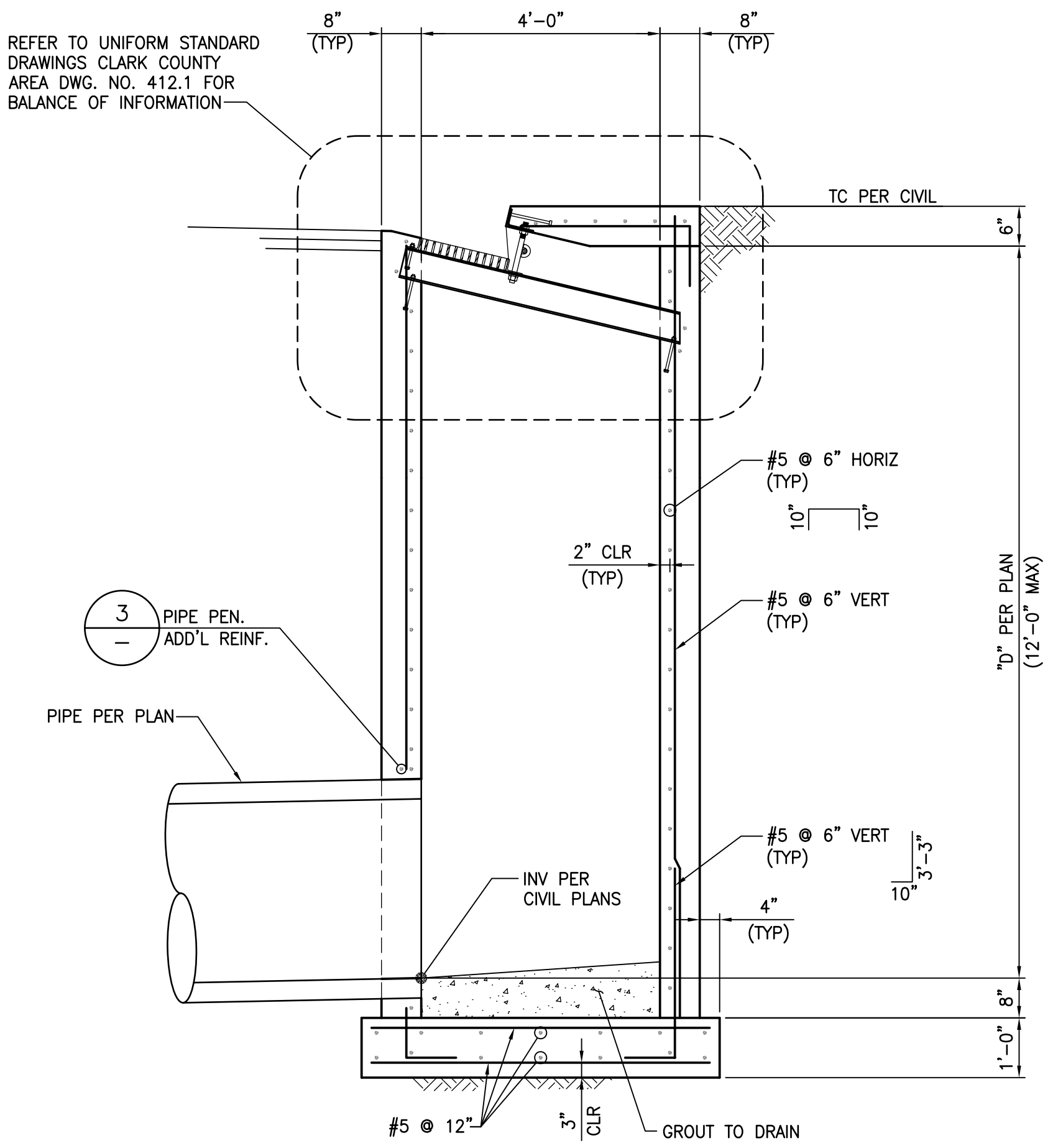
- NOTES:
- FIELD CUT TYPICAL WALL REINFORCING 2" CLR OF PIPE.
 - WHEN WALL IS LESS THAN 9" THICK REINFORCING DOES NOT NEED TO BE PLACED IN EACH FACE AS STATED ABOVE.
 - IF BARS CANNOT EXTEND BEYOND PIPE AS SHOWN, EXTEND AS FAR AS POSSIBLE AND PROVIDE STANDARD HOOK.

3 PIPE PENETRATION REINFORCING DETAIL
SCALE: NTS



NOTE:
PROVIDE MODIFIED TYPE "CM2" DROP INLET SIMILAR TO UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA DWG. NO. 412.1 WITH DIFFERENCES NOTED ON THIS DRAWING.

2 PLAN - MODIFIED TYPE CM2 DROP INLET
SCALE: NTS



A SECTION
SCALE: NTS

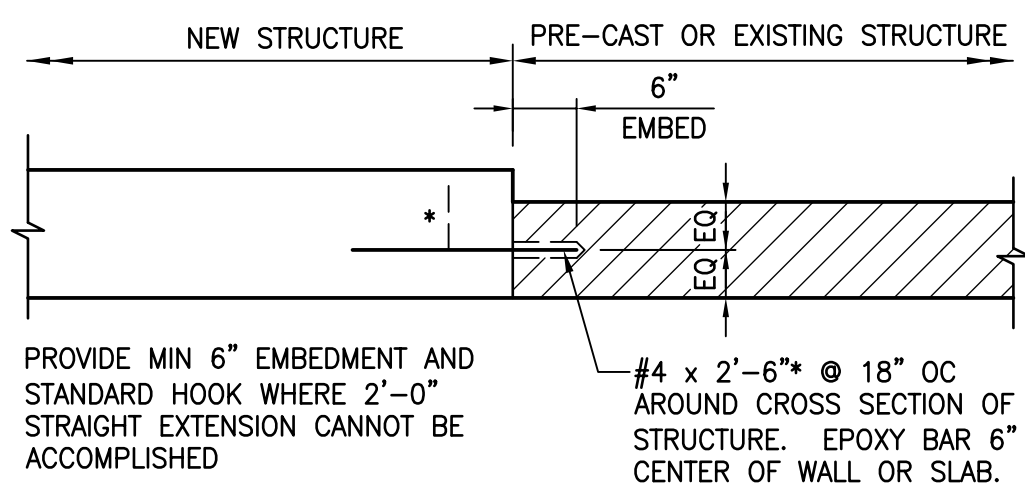
GENERAL STRUCTURAL NOTES

- DESIGN SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, EIGHTH EDITION, 2018.
- CONSTRUCTION SPECIFICATIONS: UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA.
- EXISTING UTILITIES: THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES WITHIN THE WORK AREA, AND PROVIDING PROTECTION FOR THE VARIOUS UTILITIES AFFECTED PRIOR TO PROCEEDING WITH THE WORK.
- CONCRETE: CONCRETE SHALL BE CLASS D MODIFIED AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF $f'_c=4,500$ PSI, UNLESS NOTED OTHERWISE, AND A MAXIMUM WATER TO CEMENT RATIO, BY WEIGHT, OF 0.45. USE TYPE V CEMENT PER ASTM C-150. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4", UNLESS NOTED OTHERWISE.
- REINFORCING STEEL: ALL REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. DIMENSIONS ARE FROM OUT TO OUT OF BARS. MINIMUM CLEARANCE TO REINFORCING STEEL SHALL BE 3" WHERE CONCRETE IS CAST AGAINST SOIL AND 2" ELSEWHERE, UNLESS NOTED OTHERWISE. HOOKS MAY BE ROTATED OR TILTED AS NECESSARY TO PROVIDE THE PROPER CLEARANCES.
- BEDDING MATERIAL: BEDDING MATERIAL SHALL BE 6-INCHES OF TYPE II AGGREGATE BASE COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY. EXPOSED NATIVE SOILS IN BOTTOMS OF EXCAVATIONS SHALL BE SCARIFIED TO A DEPTH OF 6-INCHES, MOISTURE-CONDITIONED TO WITHIN 2% OF OPTIMUM MOISTURE CONTENT AND COMPACTED TO 90%.
- INVERTS, SLOPES, BEARINGS, ALIGNMENTS, AND ELEVATIONS SHOWN ARE FOR "REFERENCE ONLY". INFORMATION ON CIVIL DRAWINGS SHALL GOVERN.
- CONTRACTOR SHALL PROVIDE SLOPE STABILIZATION, SHEETING, BRACING, AND/OR SHORING AS REQUIRED TO PROTECT EXISTING EMBANKMENTS, STRUCTURES, AND UNDERGROUND ITEMS.
- THE DESIGN IS BASED ON THE GEOTECHNICAL REPORT PREPARED BY NOVA GEOTECHNICAL AND INSPECTION SERVICES, PROJECT NO. G-19-026, DATED MAY 9, 2019.

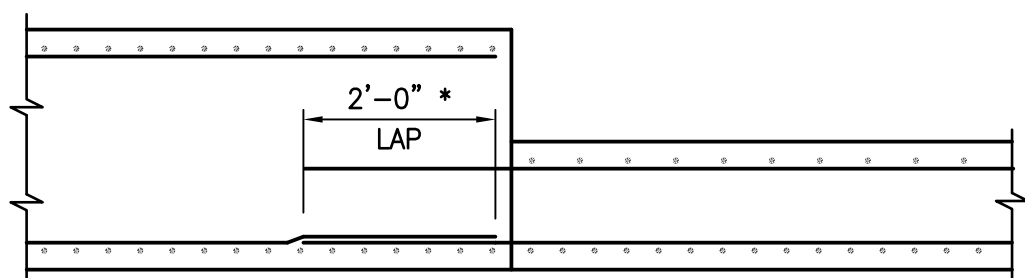
SPECIAL INSPECTION:

	CONTINUOUS MONITORING	PERIODIC MONITORING
FOUNDATION SOILS, EXCAVATIONS, FILL MATERIALS, SUBGRADE		X
PLACEMENT AND COMPACTION OF FILL	X	
REBAR PLACEMENT IN CONCRETE		X
ANCHORS CAST IN CONCRETE		X
VERIFICATION OF CONCRETE MIX DESIGN		X
SAMPLING OF FRESH CONCRETE AND PLACEMENT	X	
CONCRETE CURING AND FORMWORK		X
EMBEDDED PLATES	X	
POST-INSTALLED ANCHORS	X	

- SPECIAL INSPECTIONS ARE TO BE PERFORMED BY QUALIFIED FIRMS OR PERSONNEL. THE SPECIAL INSPECTOR MUST BE ICC CERTIFIED AND APPROVED BY CLARK COUNTY IN THE CATEGORY OF WORK REQUIRED TO HAVE SPECIAL INSPECTION.
- THE CONSTRUCTION MATERIALS TESTING LABORATORY MUST BE APPROVED BY CLARK COUNTY, FOR TESTING OF MATERIALS, SYSTEMS, COMPONENTS, AND EQUIPMENTS.
- AS IDENTIFIED WITHIN THE CONTRACT DOCUMENTS, AND THE IBC 2018 BUILDING CODE CHAPTER 17. THE SPECIAL INSPECTORS SHALL MAINTAIN RECORDS OF ALL INSPECTIONS PERTAINING TO THE PORTIONS OF WORK THEY ARE TO INSPECT. PROVIDE COPIES OF REPORTS TO THE OWNER AND ARCHITECT/ ENGINEER PERIODICALLY AND AS REQUIRED FOR ADEQUATE COMMUNICATION AS WORK PROGRESSES.



CAST-IN-PLACE CONNECTION TO PRE-CAST OR EXISTING STRUCTURE



CAST-IN-PLACE CONNECTION TO CAST-IN-PLACE STRUCTURE

1 CONSTRUCTION JOINT DETAIL
SCALE: NTS

ENGINEER - STATE OF NEVADA
DAVID A. TURNER
by CIVIL/2020
STRUCTURAL
PROFESSIONAL No. 18917
DATE: 01/05/2021

PROJECT NO.
62025-206
DESIGN: CZ
DRAWN: CZ
CHECK: EGG
PLOT DATE: 01-05-21
PLOT TIME: 10:40:46

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

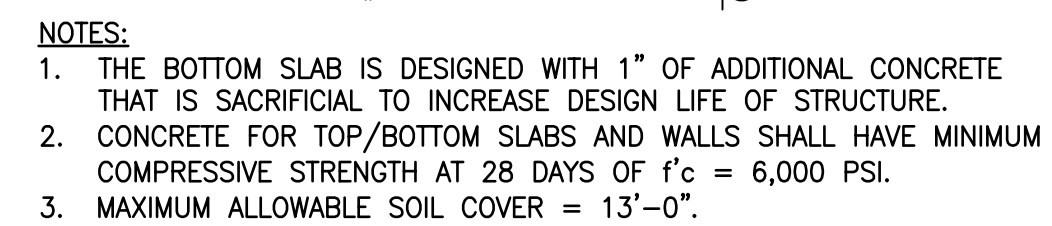
THE HOWARD HUGHES COMPANY, LLC
VILLAGE 25 SKY VISTA DRIVE IMPROVEMENTS
(REDPOINT DRIVE TO KETTLE RIDGE DRIVE)

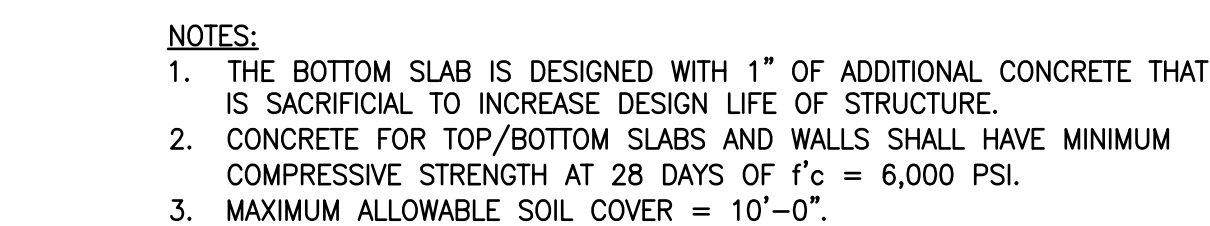
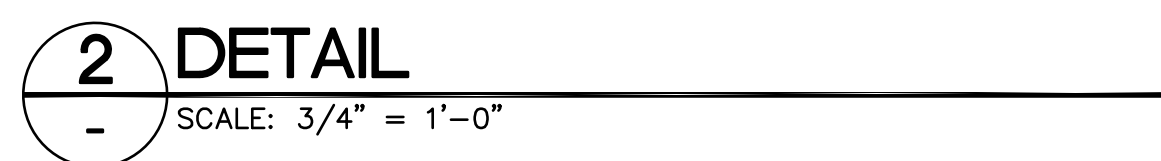
DRAWING
S1
32 OF 35 SHTS

GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS

PROJECT NO. 62025-206
DESIGN: CZ
DRAWN: CZ
CHECK: EGG
PLOT DATE: 01-05-21
PLOT TIME: 10:40:46
ALEXANDER SANTIAGO

Digitally signed by David A. Turner
Date: 2021.01.07 17:06:33 -08'00'





SCALE: $3/4" = 1'-0"$



SCALE: $\frac{3}{4}" = 1'-0"$

