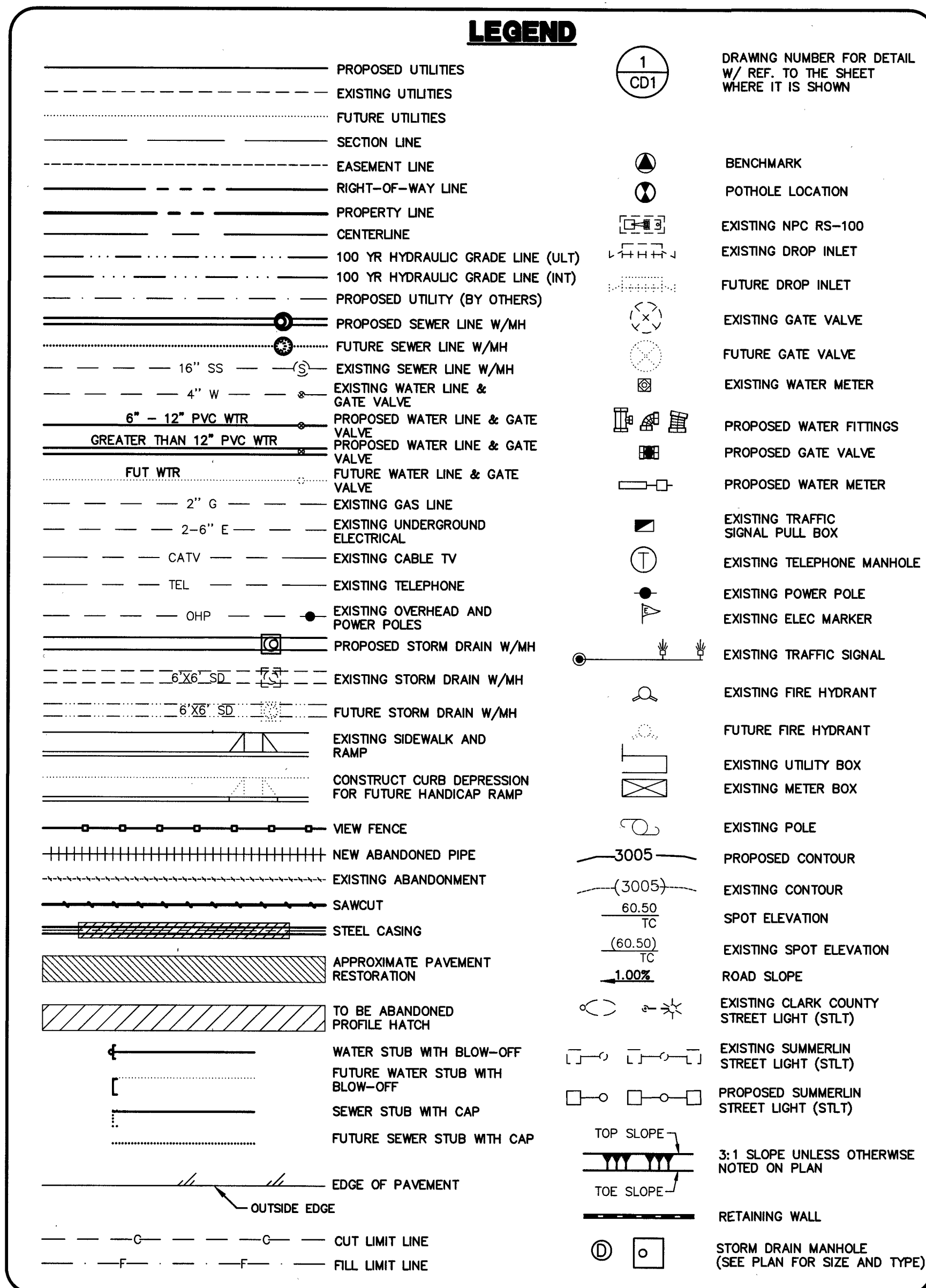




ABBREVIATIONS

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

ESTIMATED ROAD IMPROVEMENT QUANTITIES

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

PUBLIC

SAWCUT	127	LF
3" A.C. PAVEMENT	3,720	SY
4" TYPE II AGGREGATE BASE	1,065	CY
24" "L" TYPE CURB & GUTTER	1,663	LF
24" REVERSE "L" TYPE CURB & GUTTER	250	LF
6" "A" TYPE CURB	210	LF
24" "L" TYPE CURB & GUTTER (REMOVAL)	117	LF
PAVEMENT STRIPING (INTERIOR)	1,400	LF
IRRIGATION SLEEVES	227	LF
SITE SIGNAGE	10	EA
HANDICAP RAMP	2	EA
8' CROSS GUTTER	965	SF
EXCAVATION	2,811	CY
EMBANKMENT	27,823	CY

ACCESS ROAD

2" CRUSHED ROCK/GRAVEL	7,669	SY
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ESTIMATED WATER QUANTITIES

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

PUBLIC

12" PVC WATER	924	LF
6" PVC WATER	28	LF
HYDRANT ASSEMBLY W/ 6" VALVE & 12"x6" TEE	2	EA
12" GATE VALVE	3	EA
6" GATE VALVE	2	EA
1-1/2" METER & 1-1/2" RPPA	2	EA

ESTIMATED STORM DRAIN QUANTITIES

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

PUBLIC

18" RCP	47	LF
24" RCP	146	LF
60" RCP	90	LF
NDOT TYPE II SDDI	2	EA
DROP INLET - 5' MODIFIED "C"	1	EA
DROP INLET - 7.5' MODIFIED "C"	1	EA
60" SD MANHOLE	1	EA
RIPRAP (D50=8")	5	CY

ESTIMATED STREETLIGHT QUANTITIES

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

PUBLIC

STREET LIGHT, 32' SINGLE	11	EA
STREET LIGHT, 32' SINGLE FOUNDATION	11	EA
1-1/4" CONDUIT W/ WIRE & T&B	1,150	LF
#3-1/2 PULLBOX	10	EA
#5 PULLBOX	1	EA
SERVICE PEDESTAL	2	EA
NVE TRANSFORMER	1	EA

BASIS OF BEARINGS 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)

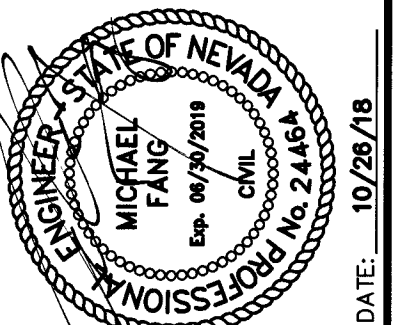
NOTES:
1. ALL DISTANCES AND BEARINGS SHOWN HEREON ARE PROJECTED (GRID) VALUES BASED ON THE PRECEDING PROJECTION DEFINITION. THE PROJECTION WAS DEFINED SUCH THAT PROJECTED (GRID) DISTANCES ARE EQUIVALENT TO "GROUND" DISTANCES IN THE PROJECT AREA.
2. GRID BEARINGS SHOWN HEREON (OR IMPLIED BY GRID COORDINATES)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

BENCHMARK

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

APPROVED FOR CONSTRUCTION

James H. Hedges
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 135222 FIRST APPROVAL DATE: 12-10-18



PROJECT NO.	DATE	AGENCY	DATE	DESCRIPTION
62024-238				

DESIGN: LG/MF	CHECK: LG/MF
DRAWN: NPD/AS	PLOT DATE: 10-26-18
	PLOT TIME: 08:14:55

1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gowerengineering.com
ENGINEERS & SURVEYORS

THE HOWARD HUGHES COMPANY, LLC
VILLAGE 24A PARCEL N/O
ENTRY ROAD IMPROVEMENT PLANS
PROJECT DATA SHEET

DRAWING

2

2 OF 20 SHTS

10747628
L18-01682

PROJ: 135222A QS: 137-33-NE

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, 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. #6 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 LEAVE A MINIMUM CLEARANCE IN COMPLIANCE WITH USD NO. 3204 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 DIVISION PRIOR TO ANY PRE-FINAL INSPECTION. 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.

1. IN THE EVENT THAT ANY UNFORESEEN CONDITIONS NOT COVERED BY THESE NOTES ARE ENCOUNTERED DURING GRADING OPERATIONS, THE OWNER/ENGINEER SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTION.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL NECESSARY CUTS AND FILLS WITHIN THE LIMITS OF THIS PROJECT AND THE RIGHT-OF-WAY SITE WORK, SO AS TO GENERATE THE DESIRED SUBGRADE, FINISH GRADES AND SLOPES SHOWN.
3. CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ALL EXCAVATION, ADEQUATE SHORING SHALL BE DESIGNED AND PROVIDED BY THE CONTRACTOR TO PREVENT UNDERMINING OF ANY ADJACENT FEATURES OR FACILITIES AND/OR CAVING OF THE EXCAVATION.
4. THE CONTRACTOR IS WARNED THAT AN EARTHWORK BALANCE WAS NOT NECESSARILY THE INTENT OF THIS PROJECT. ANY ADDITIONAL MATERIAL REMOVED OR PLACED FOR ANY REASON DURING 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. THE CONTRACTOR SHALL GRADE TO THE LINES AND ELEVATIONS SHOWN ON THE PLANS WITHIN THE FOLLOWING HORIZONTAL AND VERTICAL TOLERANCES AND DEGREES OF COMPACTATION, IN THE AREAS INDICATED:

	HORIZONTAL/VERTICAL	COMPACTION
A. PAVEMENT AREA SUBGRADE	0.1±	+0.0' TO -0.1' SEE SOILS REPORT
B. ENGINEERED FILL	0.5±	+0.1' TO -0.1' SEE SOILS REPORT
7. REPORT COMPACTATION 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 THE PLANS OR SPECIFICATIONS, THE OWNER AGREES TO PROVIDE AND INSTALL SUCH ITEM AT HIS OWN EXPENSE. CONSTRUCTION SHALL IN THE DIRECTION OF THE CITY ENGINEER. TEMPORARY CONSTRUCTION INCLUDES DITCHES, BERMS, ROAD SIGNS AND BARRICADES, ETC.

REVISED 4/15/10

1. THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER MATERIALS THAT ARE DISCHARGED, OR ACCUMULATE IN, THE PUBLIC RIGHTS OF WAYS OF CLARK COUNTY AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION. ALL 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 PREVENTION OF EROSION AND SEDIMENTATION BEST MANAGEMENT PRACTICES FOR LAS VEGAS VALLEY CONSTRUCTION SITE BEST MANAGEMENT PRACTICES MANUAL.
3. TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO THE STATE OF NEVADA GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NV19010000, 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 AREAS OF EROSION AND SEDIMENTATION. IF THE INSPECTION REVEALS MORE, THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS MAY APPLY; REFER TO THE STATE OF NEVADA GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NV19010000, SECTION III.A.2.
5. ACCUMULATED SEDIMENT IN BMP'S SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED RUNOFF EVENT. WHEN REMOVED, SEDIMENT SHALL BE RECYCLED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE LAS VEGAS FIRE AND RESCUE ADOPTED FIRE CODE ORDINANCE #6325 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' WAREHOUSE TEST CERTIFICATE FOR UNDERGROUND PIPING FORMS SHALL BE OBTAINED FROM THE FIRE PROTECTION ENGINEER BEFORE COMMENCEMENT OF WORK. [FIC SECTION 105.7.12]
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. [FIC SECTION 3310, SECTION 3312]
5. TO IDENTIFY FIRE HYDRANT LOCATIONS, CONTRACTOR SHALL PLACE A BLUE REFLECTIVE MARKER AT THE CENTER LINE OF STREET ADJACENT TO THE FIRE HYDRANTS. [FIC SECTION 507.5.7.3]
6. ALL UNDERGROUND INSPECTIONS, PRESSURE AND FLUSH VERIFICATIONS OF ALL FIRE LINES MUST BE CONDUCTED BEFORE COVERING THE LINES. CENTER LOADING IS ACCEPTABLE FOR THE HYDRO TESTS WITH PRIOR FIRE PREVENTION APPROVAL. [FIC 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. [FIC SECTION 507.2.1, NFPA 24]
8. PAINTING OF CURBS, FIRE HYDRANTS, PADS, PROTECTION OF FIRE HYDRANTS FROM PHYSICAL DAMAGE, AND ALL OTHER WORK NECESSARY PER PLANS SHALL BE COMPLETED BEFORE APPROVAL BY LAS VEGAS FIRE AND RESCUE FIRE PREVENTION DIVISION. [FIC SECTION 507]
9. PRIVATE FIRE HYDRANTS SHALL BE PAINTED RED. [FIC 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. [FIC SECTION 507]
11. FIRE HYDRANTS SPACING SHALL BE AS FOLLOWS: [FIC SECTION C102]
RESIDENTIAL - 500 FT UNSPRINKLERED; 600 FT SPRINKLERED.
COMMERCIAL - 300 FT UNSPRINKLERED; 400 FT SPRINKLERED.

- 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. [FC SECTION C102.6]
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. [FC SECTION C102.12]
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. [FC 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. [FC SECTION C102.7]
17. THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO THE END OF A DEAD-END STREET SHALL NOT EXCEED 200 FT. [FC 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. SECTIONAL CONTROL VALVES SHALL BE INSTALLED SO THAT NO MORE THAN 2 FIRE HYDRANTS CAN BE OUT OF SERVICE DUE TO A BREAK IN A WATER MAIN. [FC 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. [FC SECTION 503.2.3]
20. THE GRADIENT FOR THE FIRE APPARATUS ACCESS ROADS SHALL NOT EXCEED 12% ANGLES OF APPROACH AND ANGLES OF DEPARTURE SHALL NOT EXCEED 60° PRIOR TO OR AFTER THE GRADE CHANGE. ADJACENT TO THE STRUCTURES GRADIENT SHALL NOT EXCEED 6%. [FC 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. [FC 503.2.4]
22. VERTICAL CLEARANCE OF ALL FIRE APPARATUS ACCESS ROADS SHALL NOT BE LESS THAN 13 FT 6 IN. [FC SECTION 503.2.1]
23. FIRE DEPARTMENT ACCESS ROADS SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF NOT LESS THAN 40 FT FLOW-LINE TO FLOW-LINE WITH PARALLEL PARKING PERMITTED ON BOTH SIDES. NO LOCATIONS SHALL BE 32 FT WIDE, FLOW-LINE TO FLOW-LINE, WHERE PARKING IS PERMITTED ONLY ON ONE SIDE OF THE FIRE APPARATUS ACCESS ROAD. NOT LESS THAN 24 FT WIDE, FLOW-LINE TO FLOW-LINE, WHERE NO PARKING IS PERMITTED ON EITHER SIDE. FIRE LANES THROUGH PARKING LOTS SHALL NOT BE LESS THAN 24 FT. [FC SECTION 503.2.1.1]
24. A FIRE APPARATUS ACCESS ROAD SHALL BE REQUIRED WHEN ANY PORTION OF A BUILDING EXTERIOR WALL FO THE FIRST STORY IS LOCATED MORE THAN 150 FT FROM A FIRE DEPARTMENT VEHICLE ACCESS. THIS DISTANCE COULD BE INCREASED TO 250 FT IF THE BUILDING IS SPRINKLERED. [FC SECTION 503.1.1]

1. NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN APPROVED FOR CONSTRUCTION BY THE LVVMD. FOLLOWING WATER PLAN APPROVAL, NOTICE SHALL BE GIVEN TO THE LVVMD 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 LVVMD INSPECTION. WHEN REQUESTING INSPECTIONS, PLEASE REFER TO THE PROJECT # IDENTIFIED ABOVE.
2. ALL WORK SHALL CONFORM TO LVVMD STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS, AND TO THE 2010 EDITION OF THE UNIFORM DESIGN AND SPECIFICATIONS FOR WATERWORKS, AND THE 2010 EDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR WATER SYSTEMS (UDSAS). THE LATEST EDITION OF UDSAS 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 LVVMD.
5. ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING WITH LVVMD APPROVED SERVICE SADDLES.
6. ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
7. ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY AND CURB GUTTERS.
8. ALL WATER AND STORM DRAIN OR SANITARY SEWER CROSSINGS SHALL CONFORM TO SECTION 2.2.2 OF THE 2010 EDITION OF THE UDSAS
9. ALL WATER FACILITIES AND APPURTEANANCES SHALL BE DISINFECTED, PRESSURE TESTED, AND HAVE A PASSABLE PASSING HEALTH WATER SAMPLE OBTAINED, PRIOR TO OPERATION AND USE.
10. THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES AND SMALLER SIZES TO BE INSTALLED TO BE DELIVERED TO THE PHONE 258-3152 OR 258-3802, TWO (2) WORKING DAYS PRIOR TO METER PICKUP.
11. ANY INTERRUPTION OF SERVICE MUST BE PERFORMED IN ACCORDANCE WITH UDSAS SECTION 3.14.01, AND APPROVED BY THE LVVMD 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 LVVMD 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 LVVMD 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 LVVMD TO THE MUNICIPAL WATER FACILITIES WILL INCLUDE THE REPAIR OF AN APPROPRIATELY SIZED ASPHALT REPAIR PATCH ON THE STREET SURFACE.
15. 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 FOR THE PURCHASE OF PRIVATE STREET, IF DISTURBED BY THE LVVMD DURING THE REPAIR OR OPERATION OF ITS FACILITIES, WILL BE REPLACED BY LVVMD WITH AN APPROPRIATELY SIZED PLAIN FINISH CONCRETE PATCH. THE LVVMD WILL NOT BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF ANY DECORATIVE PAVING SURFACE WITHIN THE STREET. THE LVVMD WILL NOT ATTEMPT TO MATCH COLOR OR FINISH OF ANY ADJACENT MATERIALS.
16. 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 LEAD FREE PRODUCT, MUST BE LEAD FREE APPROVED PRODUCT. THE OLD LEAD PRODUCT MAY NOT BE REUSED.

1. INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FIT PER UDCS PLATE #15.
2. REMOVE THE WOOD BOX TO FINISHED GRADE PER UDCS PLATE #39. VALVE SHALL BE ACCESSIBLE AT ALL TIMES.
3. RELOCATE #6 MANUAL BLOW-OFF PER UDCS PLATE #37.
4. RELOCATE #4 COMBINATION AIR VALVE PER UDCS PLATE #38.
5. REMOVE EXISTING DISTRICT GROUND SURFACE WHERE CONNECTIONS REPAIRS TO EXISTING FACILITIES ARE REQUIRED, THE CONTRACTOR SHALL ENSURE LABOR AND EQUIPMENT IS AVAILABLE TO REMOVE FUGITIVE WATER THAT MAY IMPAIR CONSTRUCTION AT ALL TIMES. COORDINATION WITH INSPECTION DIVISION MUST TAKE PLACE PRIOR TO REMOVAL.
6. CONTRACTOR TO INSTALL TEMPORARY SERVICE TO ENSURE PROPER SHUTDOWN IN EVENT NO OTHER APPURTENANCES ARE AVAILABLE.
7. THE PROPOSED 12" WATER MAIN SHALL BE 12" OFF-SITE MAINS ONLY, AND NOT TO PRODUCE OR IMPLY ANY WATER COMMITMENT.
8. TREES, SHRUBS OR DECORATIVE ROCKS, AND ANY BLOCK WALL OR OTHER FENCE MATERIAL, SHALL BE DESIGNED AND CONSTRUCTED AROUND THE EASEMENTS(S) TO ALLOW ACCESS TO THE EXISTING WATER MAIN VAULT(S). BACKFLOW ASSEMBLIES ARE PIPING FROM THE ADJACENT RIGHT-OF-WAY.

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.

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 1,1 FEET, PER UDACS 2.07.01 AND 2.07.02.

MEETING ASTM C990, 6.2.1 (BUTYL RUBBER SEALANT). THE MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. THE MINIMUM SIZE OF JOINT SHALL BE 1-1/4 INCH. JOINT MATERIAL EXTRUDING FROM THE INTERIOR OF THE JOINT SHALL BE REMOVED FLUSH WITH THE BOX WALL.

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

MANHOLE RIM ELEVATIONS ARE PROVIDED FOR ESTIMATING PURPOSES ONLY. ALL MANHOLE RIMS AND COVERS MUST BE ADJUSTED TO MATCH FINISH GRADE AT TIME OF CONSTRUCTION.

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 ENDOVEMENTS. EXISTING STOP SIGNS MUST BE REMOVED 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 UNDER 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 A GUARD RAIL, A GUARD RAIL WITH A "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 OF REPAIRED 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 "X" RETROREFLECTIVE SHEETING IN ACCORDANCE WITH CALSSA 627 AND 716 AND SHALL HAVE AN ANTI-GRAFFITI PROTECTIVE OVERLAY FILM THAT IS A MATCHING COLOR TO THE SIGN, 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 OF THE SAME SIZE AND TYPE AS SHOWN ON THE PLANS. ALL SIGNPOSTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT CITY STANDARD.
7. WHEN A PROPOSED STREET LIGHT STANDARD IS LOCATED WITHIN FIVE (5') FEET OF ANY PROPOSED SIGN SHEET, THE SIGN SHALL BE MOUNTED ON THE SIGNPOST. THE SIGN SHALL BE MOUNTED ON THE STREET LIGHT STANDARD AND THE SIGNPOST SHALL BE ELIMINATED.
8. ALL PERMANENT TRAFFIC CONTROL DEVICES CALLED FOR HEREON SHALL BE IN PLACE AND IN FINAL POSITION PRIOR TO ALLOWING ANY PUBLIC TRAFFIC ONTO THE PORTIONS OF THE ROAD(S) BEING IMPROVED HERE ON UNDER, REGARDLESS OF WHETHER THE PROJECT INVOLVES 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.
10. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAFFIC CONTROL DEVICES AND LOCATIONS TO ENSURE THE SAFETY OF THE PUBLIC IN OR AROUND THE WORK AREA. THE CONTRACTOR SHALL HAVE A CERTIFIED ATSSA TRAFFIC CONTROL TECHNICIAN OR IMSA WORK ZONE SAFETY SPECIALIST SET UP, MAINTAIN AND/OR REMOVE ALL TRAFFIC CONTROL DEVICES IN THE CITY OF LAS VEGAS, RIGHT-OF-WAY.
11. WORK IN PUBLIC STREETS, ONCE BEGUN, SHALL BE EXPEDITED TO COMPLETION SO AS TO PROVIDE THE CONVENIENCE TO ADJACENT PROPERTY OWNERS AND TO THE TRAVELING PUBLIC.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING REGIONAL TRANSPORTATION COMMISSION OF SOUTHERN NEVADA (RTC), IF THE CONSTRUCTION INTERRUPTS OR RELOCATES A BUS STOP OR HAS AN ADVERSE EFFECT ON BUS SERVICE ON THAT STREET TO ARRANGE FOR TEMPORARY RELOCATION OF STOP.
13. GUARDS SHALL BE OBTAINED BY CONTACTING THE METROPOLITAN POLICE DEPARTMENT SERIAL EVENTS UNIT (PHONE #828-3443) WHO WILL PROVIDE GUARDS TO PROPERLY TRAFFIC CONTROL SIGNS. THE FEE FOR THE USE OF THESE OFFICERS SHALL BE SET BY METRO AND WILL BE PAID BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR ALL ARRANGEMENTS WITH METRO.
14. ANY WORK WITHIN 300' OF A SIGNALIZED INTERSECTION WILL BE NIGHT WORK UNLESS OTHERWISE DIRECTED BY THE CITY OF LAS VEGAS TRAFFIC ENGINEER.
15. THE CONTRACTOR SHALL CONTACT THE TRAFFIC ENGINEERING DIVISION (TRANSPORTATION SECTION) THROUGH THE PROJECT'S OFFSITE INSPECTOR PHONICALLY TO OBTAIN THE TRAFFIC ENGINEERING DIVISION'S COMMENTS ON ANY TEMPORARY MODIFICATIONS TO THE APPROVED DRAWINGS REGARDING FINAL PAVEMENT TRANSITIONS, MARKINGS AND SIGNING THAT ARE REQUIRED TO MATCH ADJACENT ROADWAY SEGMENTS. THE CONTRACTOR SHALL PROVIDE A DRAWING OR ANALYSIS BY THE TRAFFIC ENGINEERING DIVISION IDENTIFYING ANY ADJUSTMENTS TO THE FINAL PAVEMENT MARKINGS AND SIGNAGE, WHICH MAY INCLUDE OMITTING, ADDING OR MODIFYING PAVEMENT MARKINGS AND TRAFFIC SIGNS. TRANSITIONS BETWEEN ADJACENT ROADWAY SEGMENTS ARE CONSTRUCTED.

1. IN THE EVENT OF NATURAL GAS EMERGENCIES CALL 911 AND 1-877-860-6020
2. THERE SHALL BE A MINIMUM HORIZONTAL AND VERTICAL CLEARANCE OF 12-INCH BETWEEN NATURAL GAS FACILITIES AND ANY UNDERGROUND FACILITIES AND/OR STRUCTURES, INCLUDING BUT NOT LIMITED TO WATER, SEWER, STORM DRAIN, COMMUNICATIONS, AND ELECTRIC.
3. FOR VALVE ADJUSTMENT CONTACT 702-668-6107 48 HOURS PRIOR TO CONSTRUCTION.
4. IN THE EVENT OF A NATURAL GAS CONFLICT WITH PROPOSED UTILITIES AND/OR STRUCTURES CONTACT 702-365-2099.

 10/29/11
SOUTHWEST GAS CORPORATION DATE

SITE LOCATED ON THE FEDERAL EMERGENCY AGENCY (FEMA) FLOOD INSURANCE RATE (FIRM) CONTAINING COMMUNITY PARCEL NUMBER 32003C 2150E DATED SEPTEMBER 2, 2002. THE FIRM MAP SHOW THAT THE PROJECT IS LOCATED WITHIN A ZONE X DEFINED AS BEING OUTSIDE THE 500-YEAR FLOODPLAIN AND NOT LOCATED WITHIN FEMA DESIGNATED SPECIAL FLOOD ZONE HAZARD AREA (SFHA).

Tom Chan 10/31/18
CITY OF LAS VEGAS FIRE DEPARTMENT DATE

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 135222 FIRST APPROVED DATE: 12-10-18

OR
1-800-227-2600

AVOID HITTING UNDERGROUND
TRAFFIC SIGNAL SYSTEMS
AND STREET LIGHT SYSTEM CONDUITS
IT'S COSTLY
CALL BEFORE
YOU DO
UNDERGROUND

UnderGround
1-702-432-5300
FREEWAY AND ARTERIAL
SYSTEM OF TRANSPORTATION (FAST)

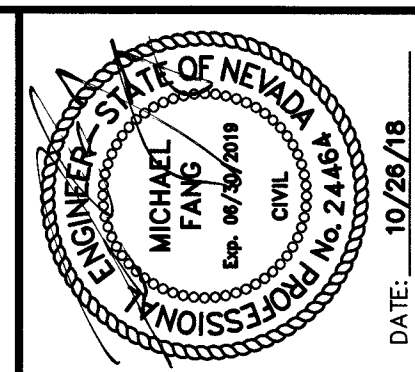
1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA", LATEST EDITION; THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA NEVADA", LATEST REVISED EDITION; THE "SUMMERLIN IMPROVEMENT STANDARDS" FOR WORK IN THE SUMMERLIN AREA; AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY; THE UNIFORM BUILDING CODE; AND ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE EXCEPT AS NOTED ON THIS SHEET AS "DEVIATIONS FROM STANDARDS".
2. THE EXISTENCE AND LOCATION OF ANY OVERHEAD OR UNDERGROUND UTILITY LINES, PIPES, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A RESEARCH OF THE AVAILABLE RECORDS. EXISTING UTILITIES AS SHOWN FROM CLV PLANS LIBRARY ARE APPROXIMATE AND FOR RECORD PURPOSES. EXISTING UTILITY LINES 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 UTILITIES AND OVERHEAD LINES AND DETERMINE THE MANNER WHICH MAY AFFECT HIS OPERATION DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO SAME. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD UTILITIES SO AS TO SAFELY PROTECT THE PERSONNEL. 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 SHALL BE MAINTAINED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S OWNERS' AND OWNING UTILITY COMPANY AT THE EXPENSE OF THE CONTRACTOR.
4. ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS, ANY REVISIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.
5. TYPE V CEMENT SHALL BE USED IN ALL OFF-SITE CONCRETE WORK. CONCRETE TO BE 3000 P.S.I. MINIMUM @ 28 DAYS. MIX DESIGN TO BE APPROVED BY CITY, PRIOR TO THE USE ON THE PROJECT.
6. PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.
7. EXPANSION JOINTS REQUIRED, MAXIMUM EVERY 300' IN EXTRUDED-TYPE CURB.
8. AC PAVEMENT TO BE ONE-HALF INCH (1/2") ABOVE UP OF ALL GUTTERS AFTER COMPACTION, EXCEPT AT SIDEWALK RAMPS AND CROSS GUTTERS.
9. CURB AND GUTTER FOLD TO BE UNACCEPTABLE TO THE CITY SHALL BE REMOVED AND REPLACED PER USD 216.
10. SIDEWALK RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER USD 235. EXACT LOCATION OF RAMPS MAY BE ADJUSTED IN TRANSITION BY A CITY ENGINEER.
11. CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITION BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND FOR INGRESS AND EGRESS TO NEW CONSTRUCTION. THE EXTENT OF TRANSITIONS TO BE AS SHOWN ON PLANS.
12. ALL GRADING WORK SHALL CONFORM TO THE SOLIS REPORT AS PREPARED BY NOVA GEOTECHNICAL & INSPECTION SERVICES, REPORT # G-18-013, DATE MARCH 13, 2018 APPROVED BY THE CITY ENGINEER, AND AS SHOWN ON THESE PLANS.
13. EXACT LOCATION OF ALL SAWCUT LINES MAY BE ADJUSTED OR DETERMINED IN TRANSITION BY A CITY ENGINEER. IF LOCATION ON PLANS IS NOT CLEARLY SHOWN, OR EXISTING PAVEMENT CONDITION REQUIRES RELOCATIONS.
14. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE REPLACED AND ADJUSTED PER AVAILABLE RECORDS IN ACCORDANCE WITH N.R.S. STATUTE NO. 625.300 & CITY OF LAS VEGAS TITLE 18, APPENDIX D.
15. UTILITY COMPANY METER BOXES, MANHOLE UDS, VALVE COVERS, ETC., SHALL BE LOCATED OUT OF DRIVEWAYS, DRIVEWAY APRONS, FLOWLINES, AND CROSS GUTTERS UNLESS WRITTEN PERMISSION GRANTED BY THE UTILITY COMPANY AND THE CITY ENGINEER.

WALL NOTES:

16. ALL WALLS, NEW OR EXISTING, ARE ONLY SHOWN ON CIVIL PLANS FOR THE PURPOSE OF REVIEWING GRADING RELATIONSHIPS; FLOOD CONTROL AND SIGHT DISTANCE AT INTERSECTIONS. NEW WALLS REQUIRE A SEPARATE PERMIT AND INSPECTION BY THE BUILDING DEPARTMENT.
17. ASPHALT MIX DESIGN MUST BE SUBMITTED AND APPROVED BY THE CITY ENGINEER PRIOR TO THE PLACEMENT OF ASPHALT WITHIN CITY RIGHT OF WAY.
18. CONTRACTOR SHALL ADJUST ALL NEW AND EXISTING INLETS, VALVE BOXES, MANHOLE UDS, AND CEMENT CEMENTS, ETC., TO A FINISH GRADE AS APPLICABLE WHETHER OR NOT THE PLANS SHOW THEM.
19. MATERIALS, HANDLING AND PLACEMENT OF PORTLAND CEMENT CONCRETE SHALL BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF NDOT AND 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 PROPER PLACEMENT AND TESTING. THE CITY INSPECTOR AND TESTING CERTIFYING THAT ALL DEVICES HAVE BEEN PLACED AND VERIFIED TO BE IN GOOD WORKING CONDITION PRIOR TO THE CONSTRUCTION OF ANY ROAD BASE.
21. AFTER HAUNCHED AND PRIOR TO BACKFILL OPERATIONS WHICH WOULD COVER SAND, STORM DRAIN, AND SEWER LINES, CONTRACTOR IS REQUIRED TO SCHEDULE CLV OPEN-TRENCH UTILITY SURVEY INSPECTION FOR DETERMINATION OF FINAL LOCATION COORDINATES. FACILITIES TO BE LOCATED BY CLV SHALL INCLUDE AT A MINIMUM THE HORIZONTAL AND VERTICAL (INVERT) LOCATION OF PUBLIC MAIN, PUBLIC LATERALS, PRIVATE MAIN, PRIVATE LATERALS, PRIVATE STRUCTURES, STORM DRAIN LATERALS AT THE CONNECTION TO THE STORM DRAIN MAIN AND AT THE CONNECTION TO A DROP INLET, THE CONNECTION OF SEWER LATERALS TO THE SEWER MAIN AND WHERE THE SEWER MAIN ALIGNS EXIT THE PUBLIC RIGHT-OF-WAY, SEWER AND STORM DRAIN MAIN ALIGNMENT, INCLUDING DEFLECTION POINTS.
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 ADDITION.
23. A SEPARATE BORING PERMIT IS REQUIRED FOR ALL BORING ACTIVITIES.

REVISED JUNE 4, 2018

NONE

[illegible]

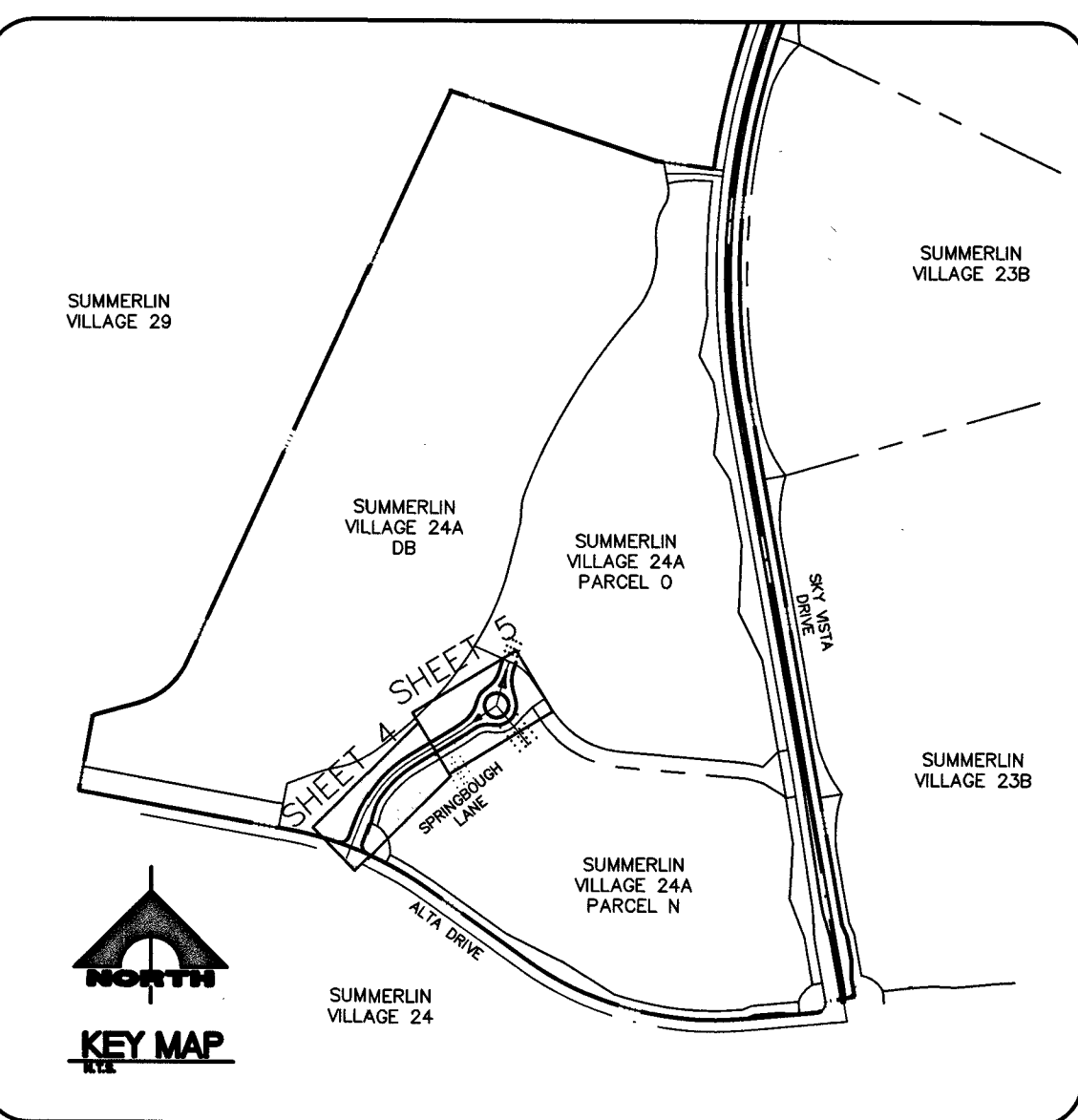
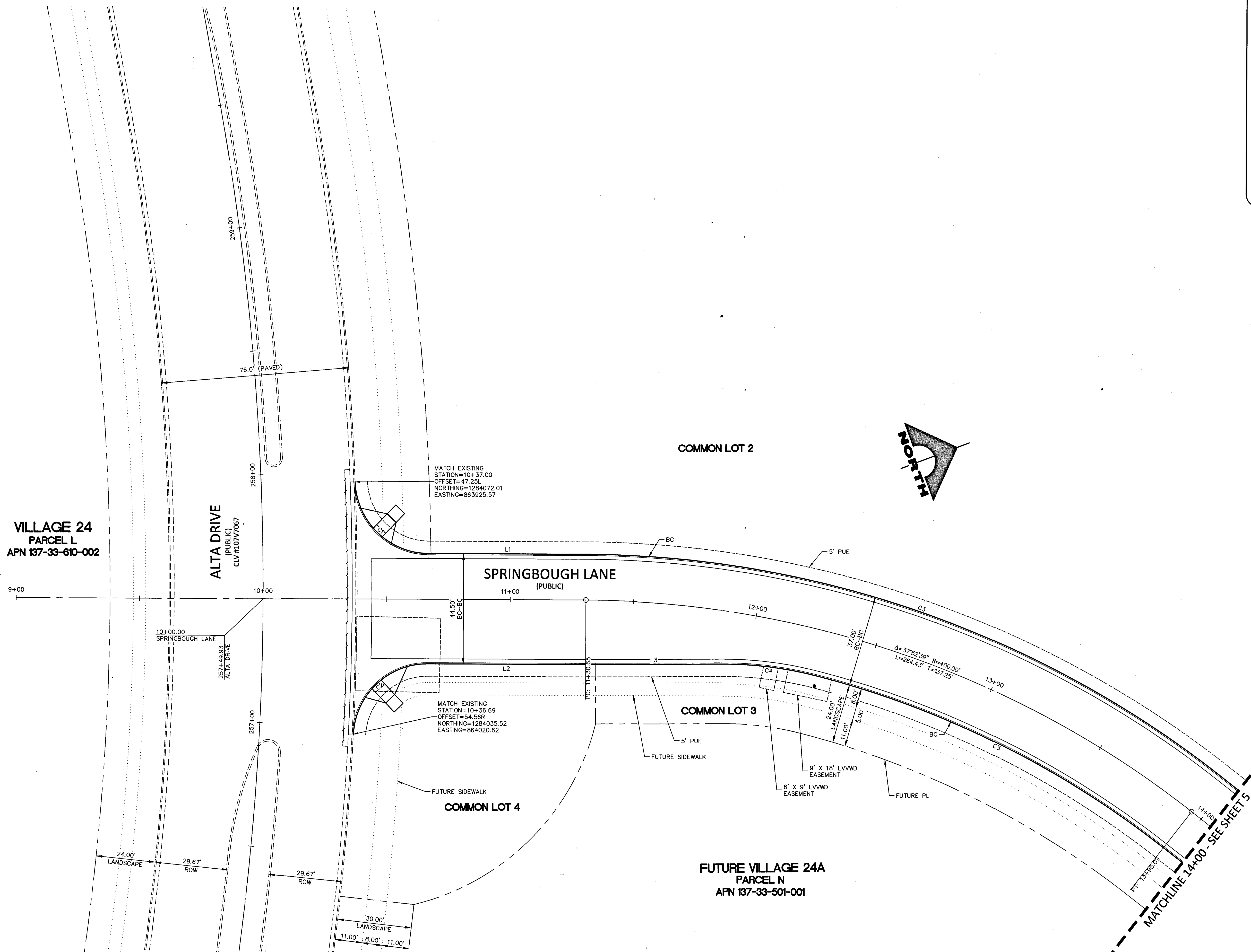
1555 S. RAINBOW BLVD. LAS VEGAS, NV 89146 T: 702.804.2000 F: 702.804.2299 gocgwengineering.com	PROJECT NO. 62024-238
	DESIGN: LG/MF DRAWN: NPD/AS CHECK: LG/MF PLOT DATE: 10-26-18 PLOT TIME: 08:15:03

GCL
ENGINEERS \ SURVEYORS

HOWARD HUGHES COMPANY, LLC
VILLAGE 24A PARCEL N/O ENTRY ROAD IMPROVEMENT PLANS
GENERAL NOTES

THE		
DRAWING		
3		
3 OF 20 SHTS		

107W7628
L18-01682



LINE TABLE		
LINE #	LENGTH	DIRECTION
L1	63.66'	N20°49'37"E
L2	64.00'	S20°49'37"W
L3	55.22'	N20°19'24"E

CURVE TABLE				
CURVE #	LENGTH	RADIUS	TANGENT	DELTA
C1	45.88'	30.00'	28.78'	87°37'13"
C2	45.68'	30.00'	28.59'	87°15'07"
C3	276.66'	418.50'	143.60'	37°52'39"
C4	38.32'	150.00'	19.27'	14°38'18"
C5	158.09'	381.50'	80.19'	23°44'33"

BASIS OF BEARINGS 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. 7LV09345WB	FND RIVET AND PLATE IN TOP OF CURB SE CORNER OF DESERT MOON RD. AND SKY VISTA DR. T205,R59E,S34	3318.31 (FEET)	1,011.422 (METERS)

SPRINGBOUGH LANE (PUBLIC)

HORIZ SCALE: 1" = 20'



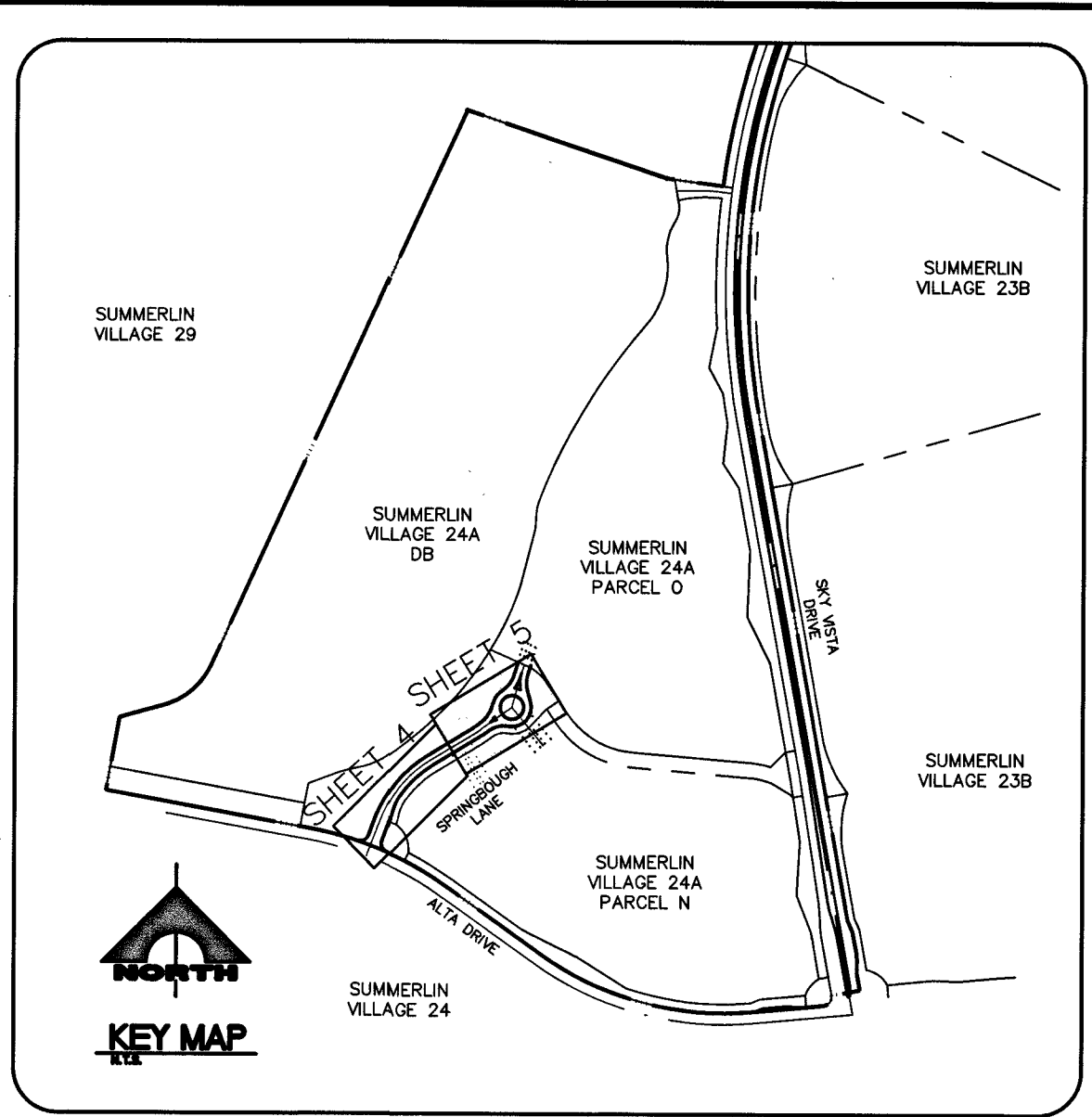
PROJECT NO.	62024-238
DESIGN:	LG/MF
DRAWN:	NPD/AS
CHECK:	LG/MF
PLOT DATE:	12-04-18
DATE:	12/2/78

THE HOWARD HUGHES COMPANY, LLC

VILLAGE 24A PARCEL N/O ENTRY ROAD IMPROVEMENT PLANS

HORIZONTAL CONTROL PLAN 1

DRAWING
4
4 OF 20 SHTS



CURVE TABLE				
CURVE #	LENGTH	RADIUS	TANGENT	DELTA
C6	19.80'	318.50'	9.90'	3°33'42"
C7	53.81'	281.50'	26.99'	10°57'09"
C8	60.97'	80.00'	32.05'	43°39'48"
C9	64.35'	110.00'	33.12'	33°30'57"
C10	129.95'	65.00'	101.14'	114°32'48"
C11	47.87'	65.00'	25.08'	42°11'41"
C12	56.62'	100.00'	29.09'	32°26'31"
C13	65.03'	100.00'	33.71'	37°15'43"
C14	2.77'	1.33'	2.28'	119°23'00"
C15	22.84'	131.17'	11.45'	9°58'35"
C16	0.90'	0.33'	1.59'	156°36'00"
C17	22.39'	101.17'	11.24'	12°40'55"
C18	2.71'	1.33'	2.16'	116°45'15"
C19	11.46'	65.17'	5.75'	10°04'44"
C20	2.76'	1.33'	2.26'	119°06'03"
C21	18.93'	65.17'	9.53'	16°38'43"
C22	2.88'	1.33'	2.51'	124°10'03"
C23	55.02'	121.17'	27.99'	26°01'04"
C24	2.61'	0.83'	INFINITY	180°00'00"
C25	43.58'	121.17'	22.03'	20°36'20"

BASIS OF BEARINGS 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 (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): 35°50'00"N

LONGITUDE OF CENTRAL MERIDIAN: 114°58'00"W

NORTHING AT GRID ORIGIN: 400,000.00 N (1,312,333.333 FT/US)

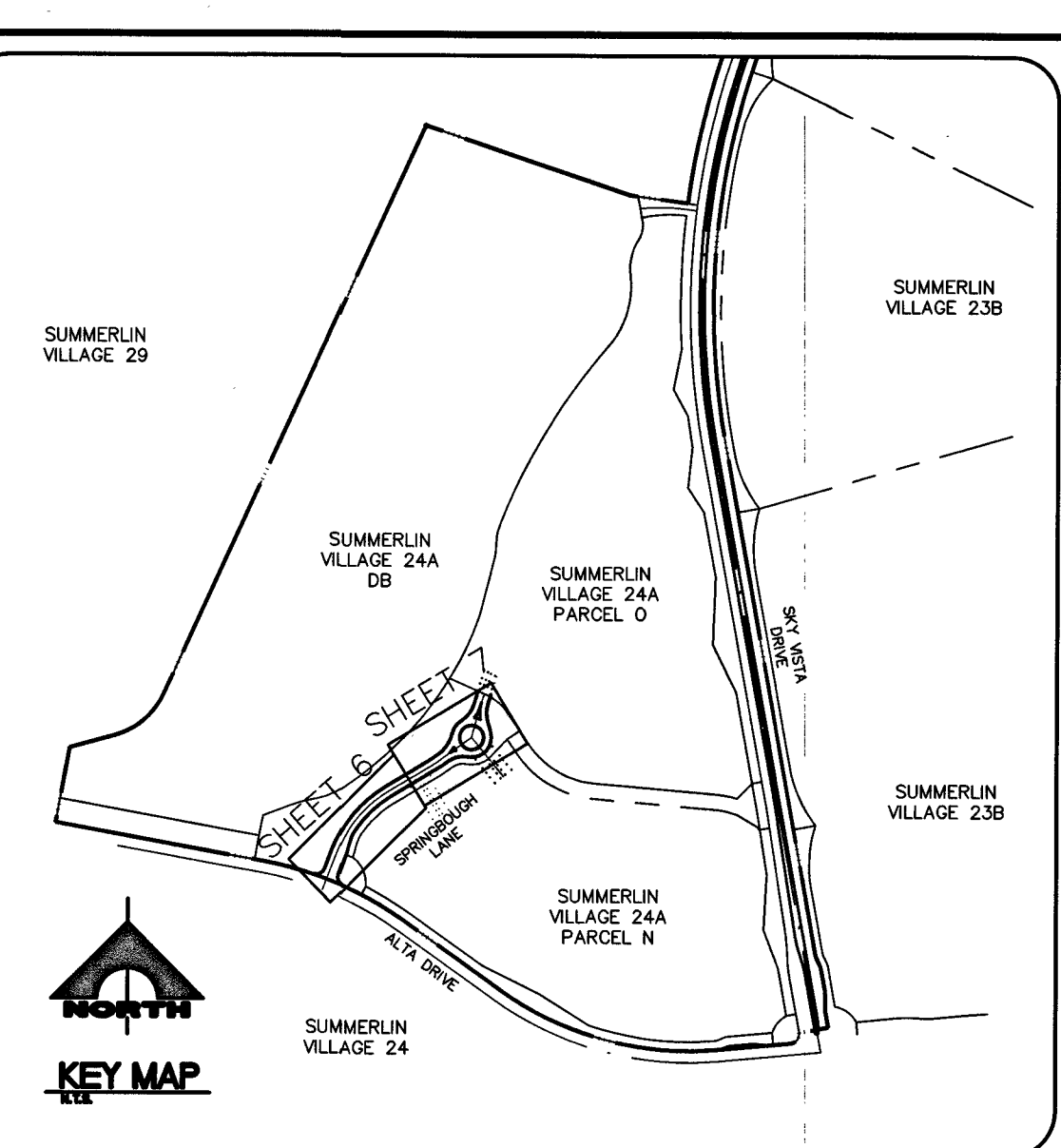
EASTING AT CENTRAL MERIDIAN: 300,000.00 N (984,250.000 FT/US)

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 ELEVATION (FEET)	NAVD 88 DATUM
CLV BM No. 7LV0934SW6	FND 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 (METERS)



IMPROVEMENT NOTES:

1. VERIFY LOCATION AND ELEVATION OF EXISTING IMPROVEMENTS. PROTECT IN PLACE AND ADJUST TO GRADE AND BACK OF CURB AS REQUIRED. WATER VALVES TO REMAIN ACCESSIBLE AT ALL TIMES.

CIVIL CONSTRUCTION NOTES:

1. CONSTRUCT AC PAVEMENT SECTION PER STREET SECTION ON SHEET 12.
2. CONSTRUCT "L" CURB AND GUTTER PER USD DWG NO. 216.
3. CONSTRUCT "A" TYPE ISLAND CURB PER USD DWG NO. 219.
4. CONSTRUCT REVERSED "L" CURB AND GUTTER PER USD DWG NO. 216.
5. CONSTRUCT SIDEWALK RAMP PER USD DWG NO. 235 (CASE II) AND PER DETAIL 1 ON SHEET 12.
6. INSTALL 8" CROSS GUTTER PER USD DWG NO. 228.

WATER CONSTRUCTION NOTES:

1. INSTALL 1- $\frac{1}{2}$ " IRRIGATION WATER METER AND 1- $\frac{1}{2}$ " RPPA PER UDACS PL. NO. 4 AND 8 AND DETAIL 1 SHEET 9.
2. INSTALL CAP W/ 2" BLOW-OFF ASSEMBLY PER UDACS PL. NO. 36
3. INSTALL FIRE HYDRANT PER UDACS PL. NO. 31, 39 AND 40. (INCLUDES TEE AND 6-INCH GAGE VALVE)
4. INSTALL GAGE VALVE AND BOX PER UDACS PL. NO. 30 AND 39
5. INSTALL 12"X1- $\frac{1}{2}$ " SERVICE SADDLE PER UDACS PL. NO. 4
6. INSTALL HORIZONTAL BEND PER UDACS PL. NO. 31 (SEE PLAN FOR ANGLE)
7. CUT AND CONNECT TO EX WATER LINE (CONTRACTOR TO VERIFY SIZE, INVERT AND LOCATION OF EX WATER PRIOR TO CONSTRUCTION).
8. INSTALL VERTICAL BEND PER UDACS PL. NO. 31 UNLESS OTHERWISE IDENTIFIED. (SEE PLAN FOR ANGLE)
9. INSTALL TEE PER UDACS PL. NO. 31 (SEE PLAN FOR SIZE)

STORM DRAIN CONSTRUCTION NOTES:

1. CONSTRUCT TYPE "CM2" DROP INLET PER USD DWG NO. 412.1 AND 421
2. INSTALL NDOT TYPE II STORM DRAIN DROP INLET PER SHEET R-4.2.1 OF NDOT "STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION" LATEST EDITION OR APPROVED EQUIV. (SEE DETAIL 4 ON SHEET 9).
3. INSTALL NDOT TYPE 2B STORM DRAIN DROP INLET PER SHEET R-4.2.2 OF NDOT "STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION" LATEST EDITION OR APPROVED EQUIV. (SEE DETAIL 1 ON SHEET 19).

IRIGATION CONSTRUCTION NOTES:

1. INSTALL 1-6" & 2-4" SCH 40 PVC PER DETAIL 3 ON SHEET 9

APPROVED FOR CONSTRUCTION

James H. Hady

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. 135222 FIRST APPROVED DATE: 12-10-18

LWVWD APPROVED FLOW: TOTAL 1500 GPM / ON SITE N/A GPM

BASIS OF BEARINGS 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.

3540

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 (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)

3530

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	NAVO 88 DATUM	NAVO 88 DATUM
3520 CLV BM NO 7LVO934SW6	FND 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)

Call 811

1-800-227-2600

CLARK COUNTY TRAFFIC DIVISION
1-702-655-8000

Call BEFORE YOU DIG OVERHEAD

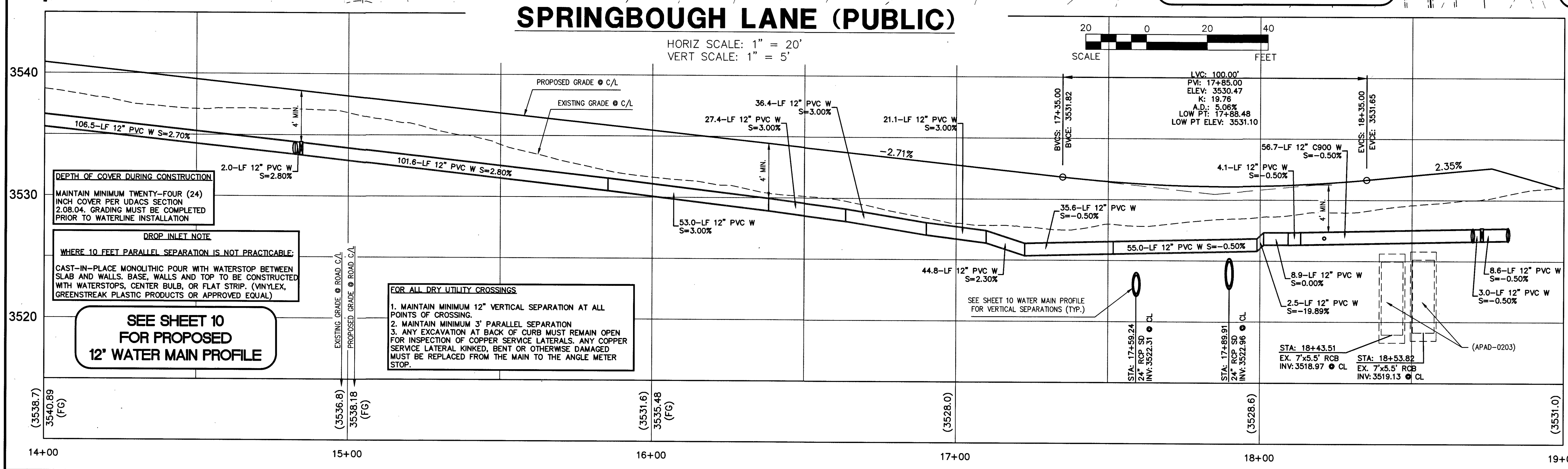
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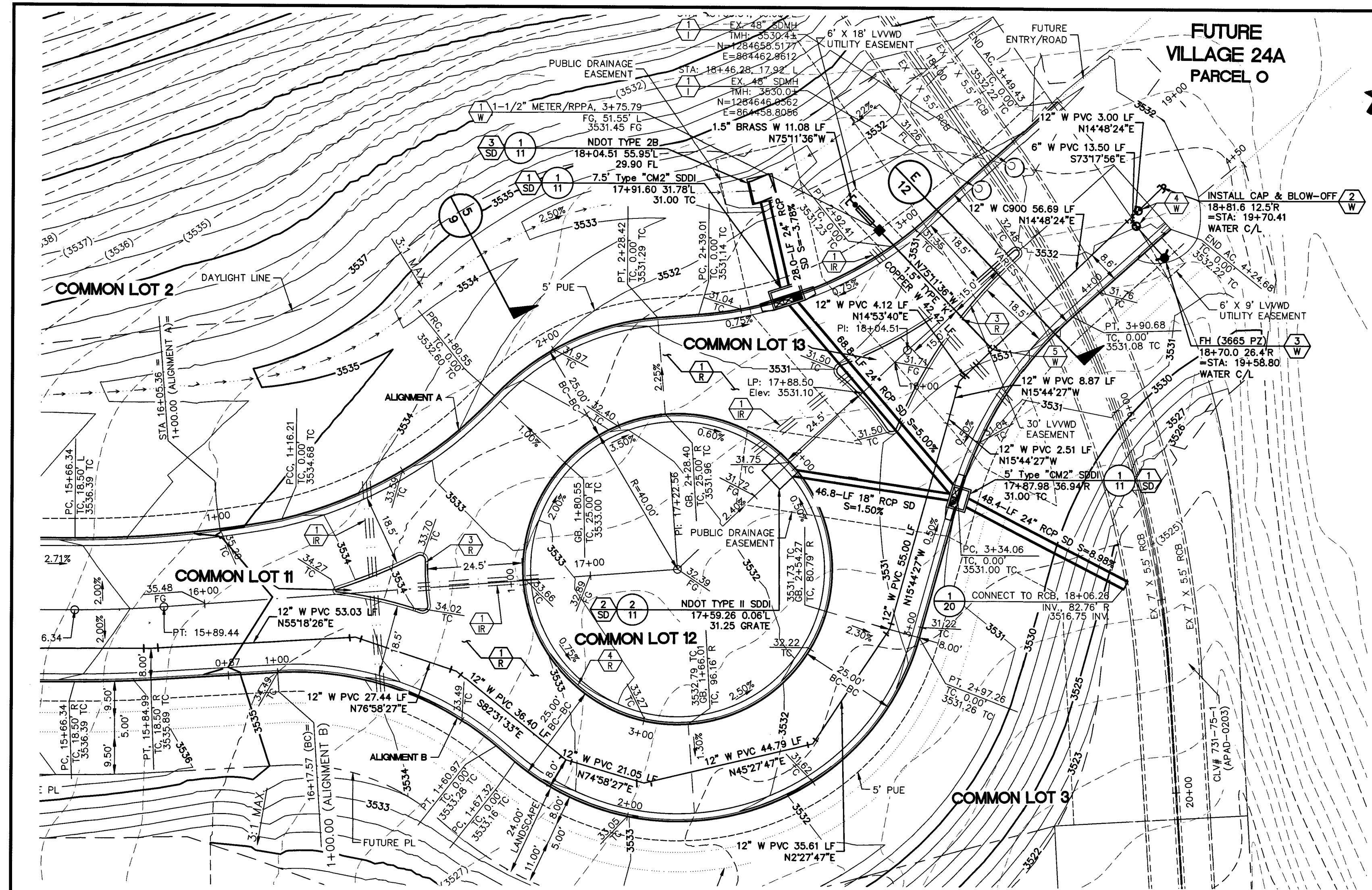
FAST

Call before you UnderGround

1-702-432-5300

FIREARM AND ARTISANAL
SHELLS ARE PROHIBITED





ROUNDBOUT (PUBLIC)

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

3540

3530

3520

3540

3530

3520

3540

3540

DEPTH OF COVER DURING CONSTRUCTION

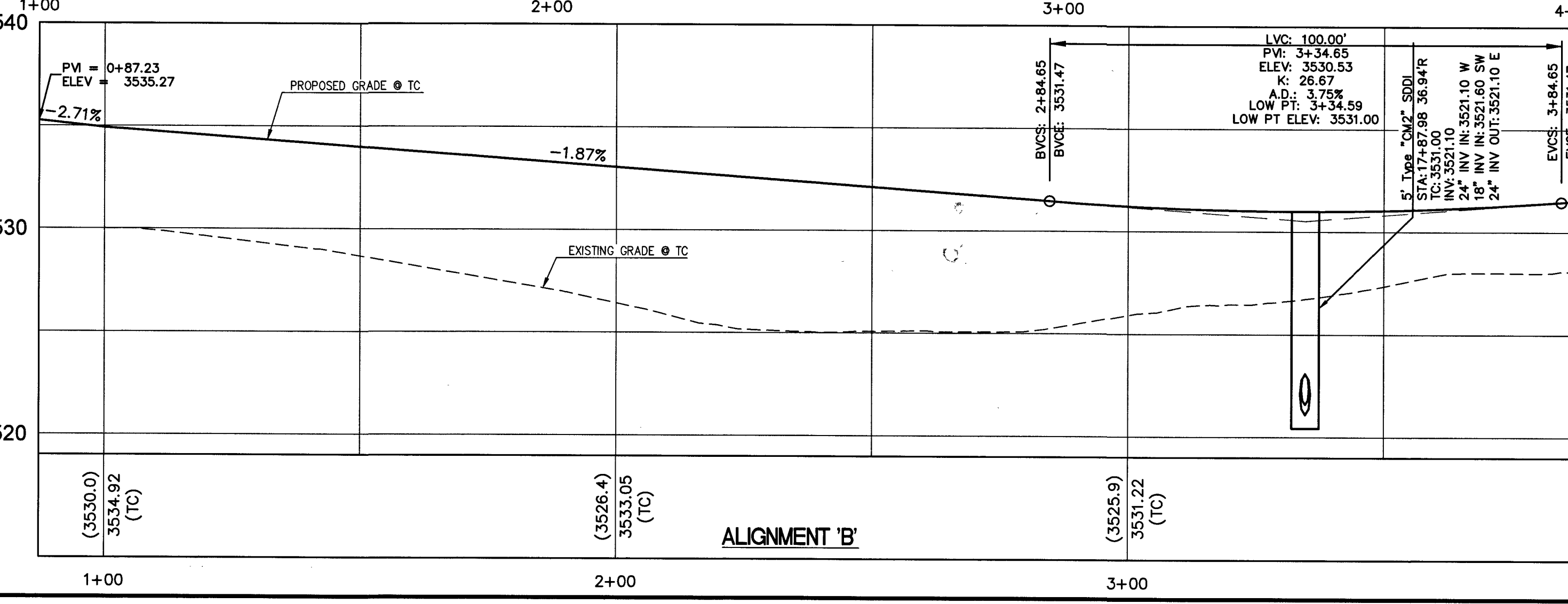
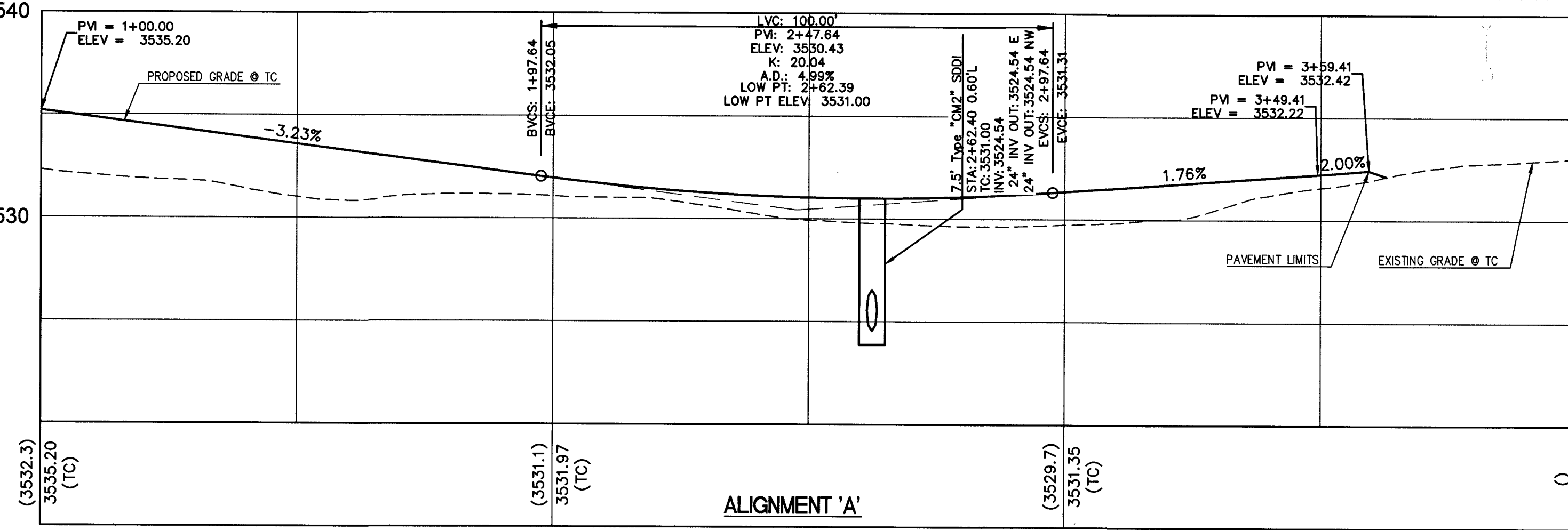
MAINTAIN MINIMUM TWENTY-FOUR (24) INCH COVER PER UDACS SECTION 2.08.04. GRADING MUST BE COMPLETED PRIOR TO WATERLINE INSTALLATION

DROP INLET NOTE

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

FOR 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.



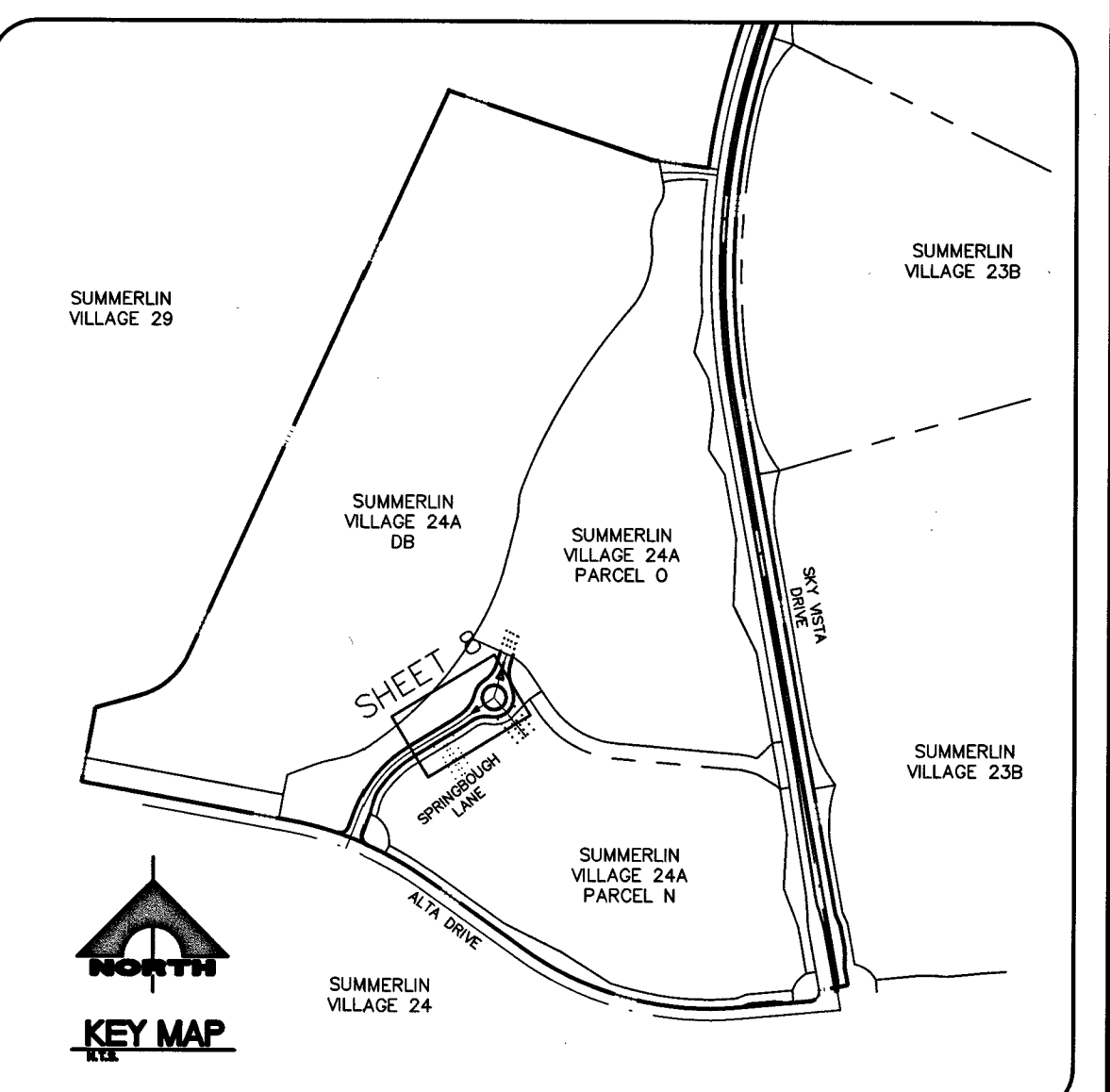
3540

3530

3520

3540

3540



- IMPROVEMENT NOTES:**
VERIFY LOCATION AND ELEVATION OF EXISTING IMPROVEMENTS. PROTECT IN PLACE AND ADJUST TO GRADE AND BACK OF CURB AS REQUIRED. WATER VALVES TO REMAIN ACCESSIBLE AT ALL TIMES.
- CIVIL CONSTRUCTION NOTES:**
1. CONSTRUCT AC PAVEMENT SECTION PER STREET SECTION ON SHEET 12.
2. CONSTRUCT "L" CURB AND GUTTER PER USD DWG NO. 218.
3. CONSTRUCT "A" TYPE ISLAND CURB PER USD DWG NO. 219.
4. CONSTRUCT REVERSED "L" CURB AND GUTTER PER USD DWG NO. 216.
5. CONSTRUCT SIDEWALK RAMP PER USD DWG NO. 235 (CASE II) AND PER DETAIL 1 ON SHEET 12.
6. INSTALL 8" CROSS GUTTER PER USD DWG NO. 228.
- WATER CONSTRUCTION NOTES:**
1. INSTALL 1-1/2" IRRIGATION WATER METER AND 1-1/2" RPPA PER UDACS PL. NO. 4 AND DETAIL 1 SHEET 9.
2. INSTALL CAP W/ 2" BLOW-OFF ASSEMBLY PER UDACS PL. NO. 36.
3. INSTALL FIRE HYDRANT PER UDACS PL. NO. 30, 31, 39 AND 40. (INCLUDES TEE AND 6-INCH GATE VALVE)
4. INSTALL GATE VALVE AND BOX PER UDACS PL. NO. 30 AND 39.
5. INSTALL 12"x1-1/2" SERVICE SADDLE PER UDACS PL. NO. 4.
6. INSTALL HORIZONTAL BEND PER UDACS PL. NO. 31 (SEE PLAN FOR ANGLE)
7. CUT AND CONNECT TO EX WATER LINE (CONTRACTOR TO VERIFY SIZE, INVERT AND LOCATION OF EX WATER PRIOR TO CONSTRUCTION).
8. INSTALL VERTICAL BEND PER UDACS PL. NO. 31 UNLESS OTHERWISE IDENTIFIED. (SEE PLAN FOR ANGLE)
9. INSTALL TEE PER UDACS PL. NO. 31 (SEE PLAN FOR SIZE)
- STORM DRAIN CONSTRUCTION NOTES:**
1. CONSTRUCT TYPE "CM2" DROP INLET PER USD DWG NO. 412.1 AND 421
2. INSTALL NDOT TYPE II STORM DRAIN DROP INLET PER SHEET R-4.2.1 OF NDOT "STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION" LATEST EDITION OR APPROVED EQUAL (SEE DETAIL 4 ON SHEET 9).
3. INSTALL NDOT TYPE 2B STORM DRAIN DROP INLET PER SHEET R-4.2.2 OF NDOT "STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION" LATEST EDITION OR APPROVED EQUAL (SEE DETAIL 1 ON SHEET 19).
- IRRIGATION CONSTRUCTION NOTES:**
1. INSTALL 1-6" & 2-4" SCH 40 PVC PER DETAIL 3 ON SHEET 9

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 135222 FIRST APPROVED DATE: 12-10-18
LVWMD APPROVED FIRE FLOW: TOTAL 1500 GPM / ON SITE N/A GPM

BASIS OF BEARINGS 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.

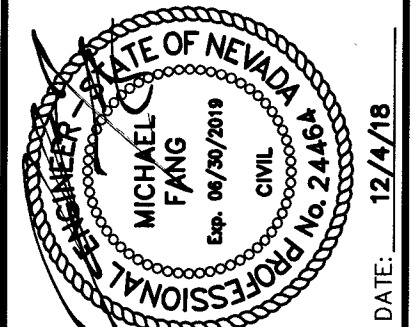
LINEAR UNIT: US SURVEY FOOT (FTUS)
DATUM (REFERENCE FRAME): NAD 83 (2011) EPOCH 2010.00
SYSTEM: NEVADA COORDINATE REFERENCE SYSTEM (NCRS)
ZONE: LAS VEGAS HIGH ELEVATION ZONE

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. 1	FND RIVET AND PLATE IN TOP OF CURB SE CORNER OF DESERT MOON RD. AND SKY VISTA DR. T205, S59E, S34	3318.31	1,011.422



PROJECT NO.	DESIGN	DRAWN	CHECK	PLOT DATE	DATE	REVISION
62024-238	LG/NF	NPD/AS	LG/NF	12-04-18		

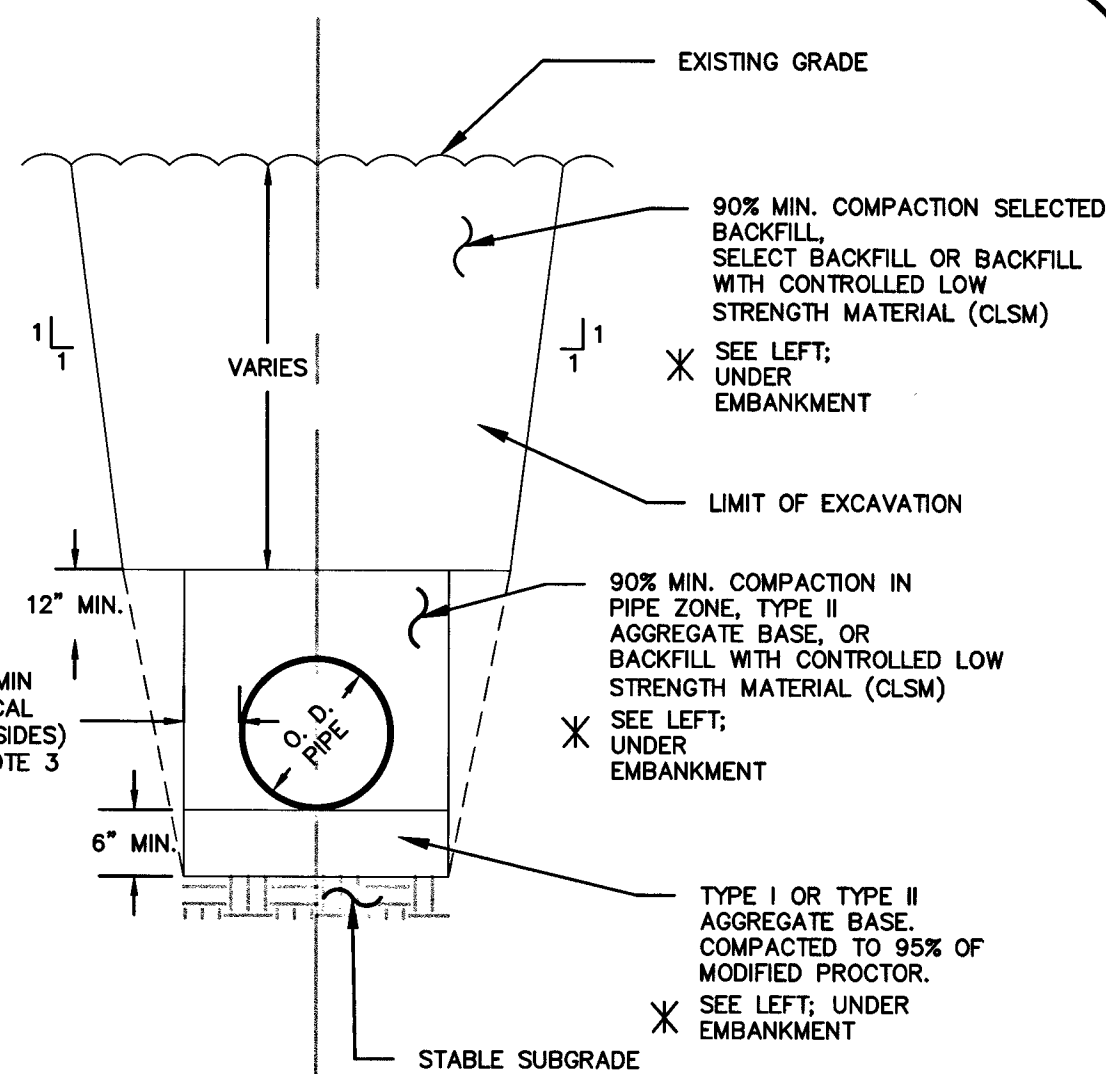
PROJECT NO. 62024-238
DESIGN: LG/NF
DRAWN: NPD/AS
CHECK: LG/NF
PLOT DATE: 12-04-18
DATE: 12/14/18

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

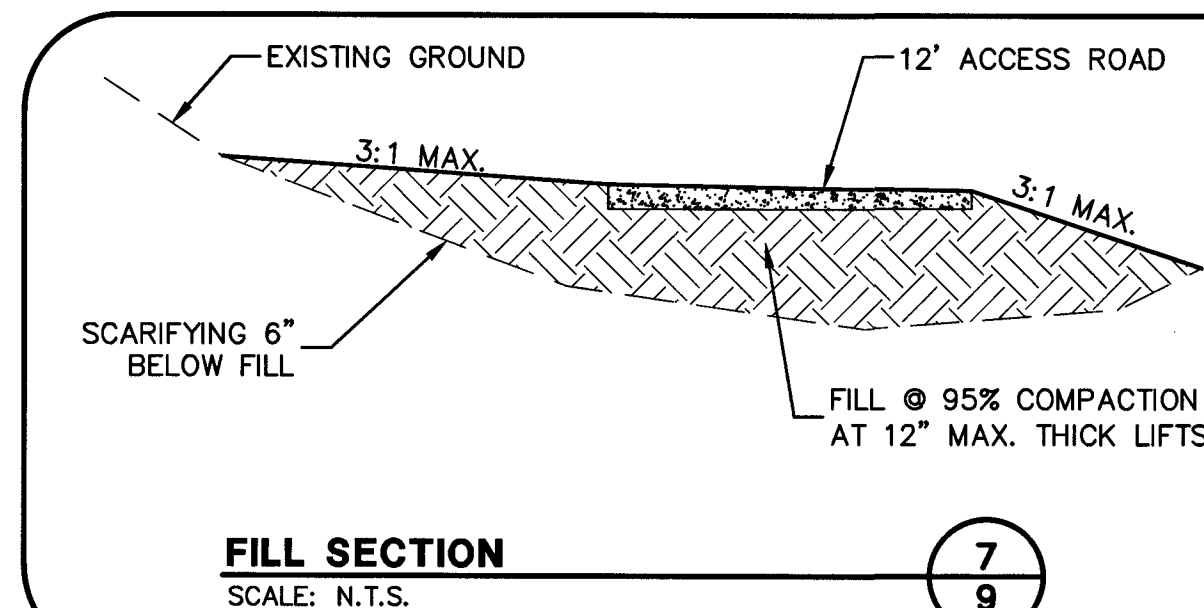
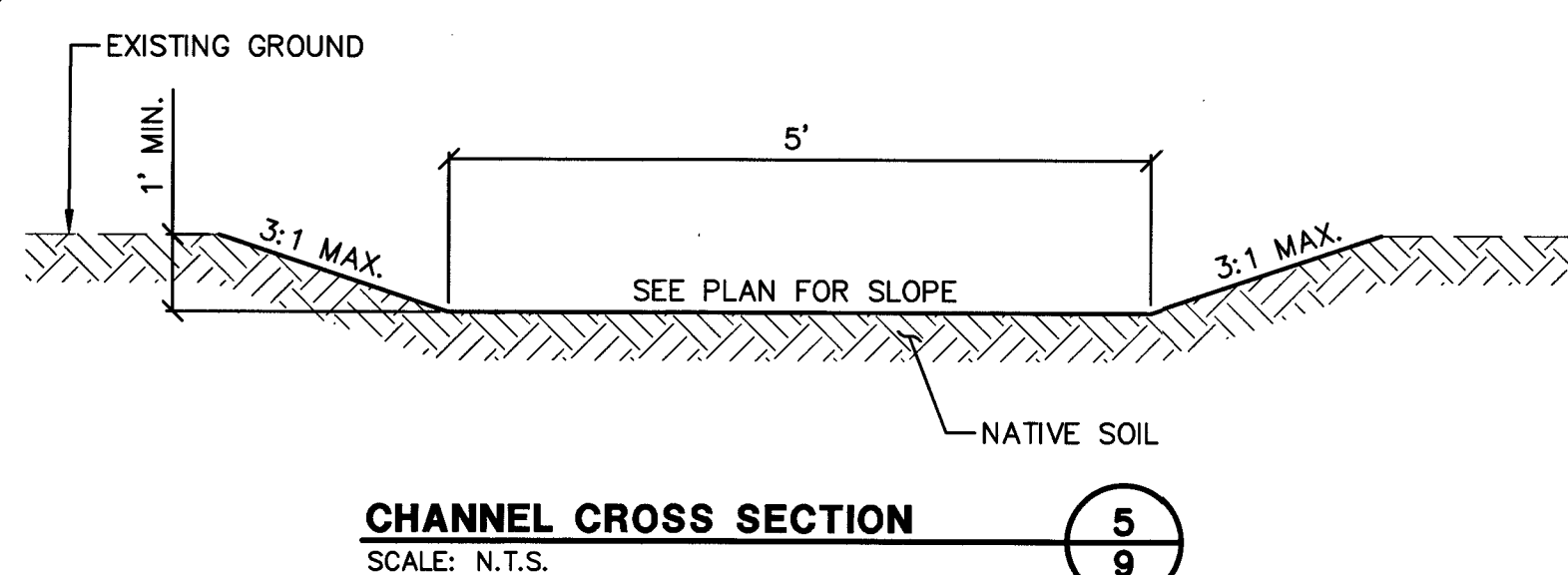
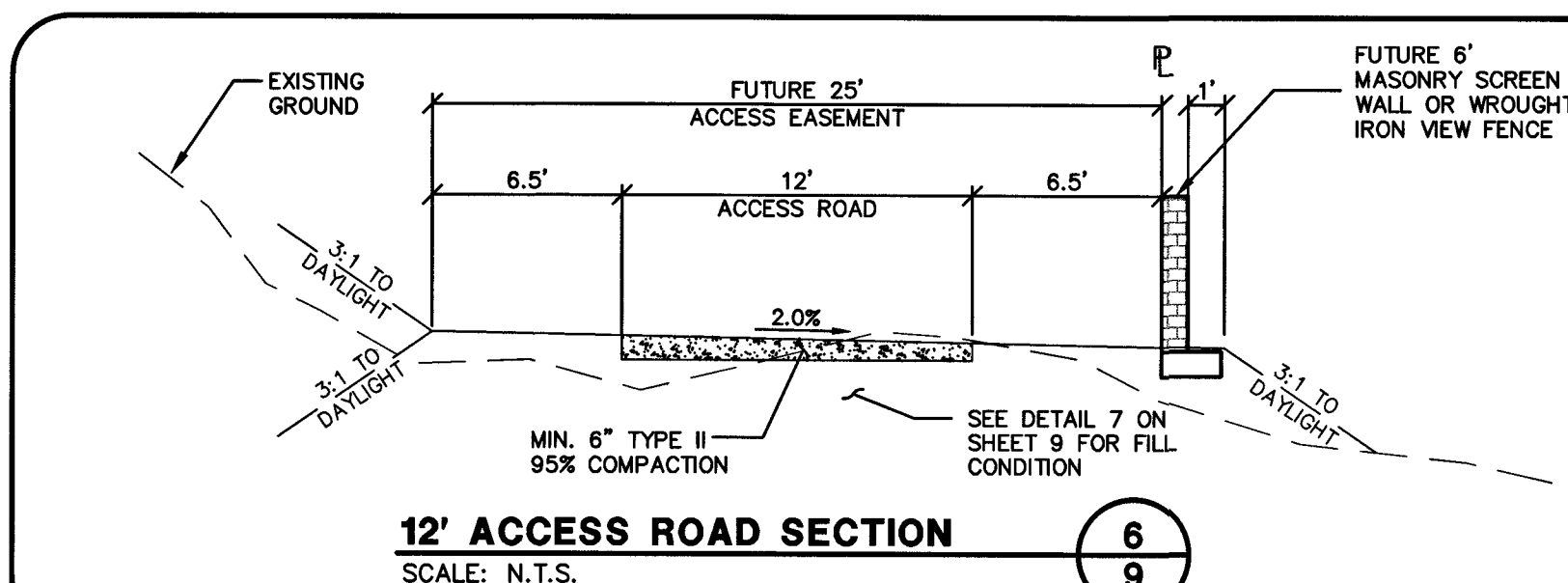
ENGINEERS & SURVEYORS

THE HOWARD HUGHES COMPANY, LLC
VILLAGE 24A PARCEL N/O
ENTRY ROAD IMPROVEMENT PLANS
ROUNDBOUT PLAN & PROFILE

- NOTE: WHERE TRENCH EXCAVATION ENCOUNTER OVERSIZE BOULDERS (COBBLES AND BOULDERS GREATER THAN 12 INCHES), OR CEMENTED NATIVE MATERIALS IT IS RECOMMENDED THAT TRENCH EXCAVATIONS BE OVER-EXCAVATED TO A DEPTH OF AT LEAST 1 FEET BELOW THE PIPELINE ELEVATIONS TO REMOVE OVERSIZE BOULDERS. THE OVER-EXCAVATION SHOULD THEN BE BACKFILLED WITH COMPACTED SOIL FILL TO THE DESIGN PIPELINE ELEVATIONS



RCP TRENCH DETAIL
SCALE: N.T.S.

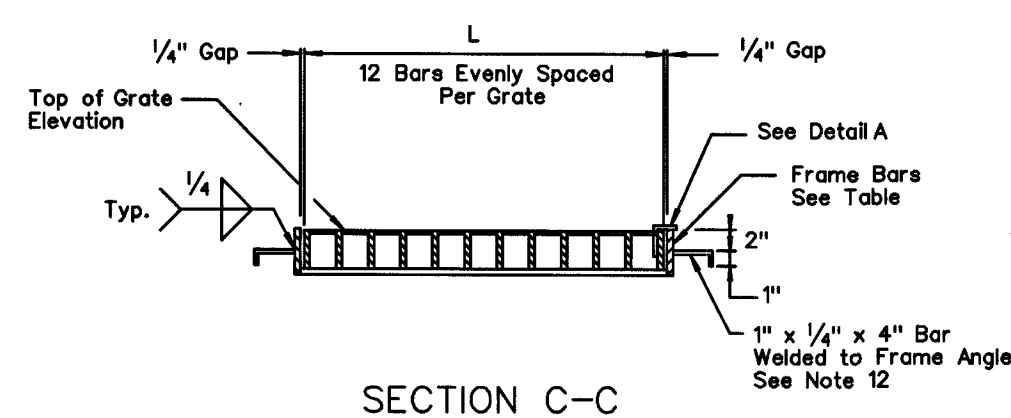


		BILL OF MATERIALS (RCP HDPE CMP)														
		SINGLE (ONE GRADE)					DOUBLE (TWO GRADES)					TRIPLE (THREE GRADES)				
		* CONCRETE (CY)	* REINF. (LB.)				* CONCRETE (CY)	* REINF. (LB.)				* CONCRETE (CY)	* REINF. (LB.)			
PIPE SIZE (INCH)		BASE QUAN. (H.M.N.)	ADD RATE (CY/FT)	BASE QUAN. (H.M.N.)	ADD RATE (CY/FT)	STR STEEL (LB.)	BASE QUAN. (H.M.N.)	ADD RATE (CY/FT)	BASE QUAN. (H.M.N.)	ADD RATE (CY/FT)	STR STEEL (LB.)	BASE QUAN. (H.M.N.)	ADD RATE (CY/FT)	BASE QUAN. (H.M.N.)	ADD RATE (CY/FT)	STR STEEL (LB.)
15		0.71	0.19	36	10	211	1.06	0.26	50	13	397	1.41	0.33	10	17	583
18		0.89	0.20	40	10	306	1.31	0.28	56	13	574	1.72	0.35	77	18	842
24		1.08	0.22	58	12	349	1.56	0.30	80	15	652	2.04	0.37	105	20	956
30		1.28	0.24	63	12	390	1.83	0.31	86	16	729	2.38	0.39	113	20	1068
36		1.50	0.26	67	13	524	2.11	0.33	92	18	980	2.72	0.41	120	21	1459
42		1.71	0.28	80	13	573	2.39	0.35	120	18	1077	3.05	0.43	123	23	1635
48		1.94	0.30	95	15	707	2.68	0.37	127	18	1329	3.42	0.44	163	23	1957

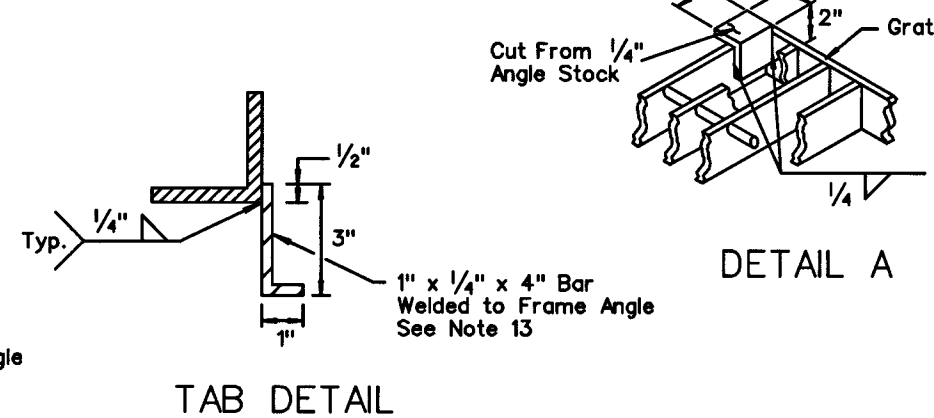
*The Concrete And Reinforcing Quantities Are Based On The H Min. Shown. Increase The Concrete And Reinforcing Base Quantity By The Corresponding Add Rate (Per Foot Of Increased H) If The H Specified Is Larger Than H Min.

TABLE OF DIMENSIONS
(RCP HDPE CMP)

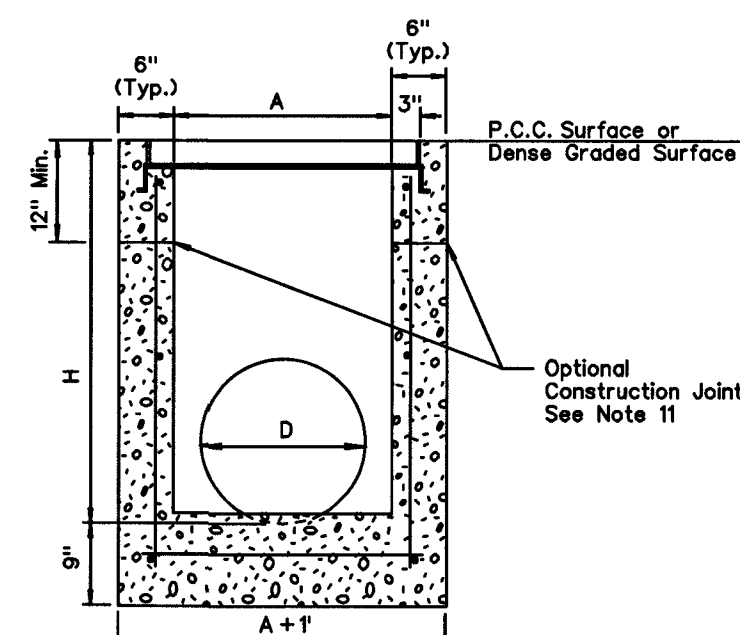
PIPE SIZE (INCH)	A	H Min. (FT)	MAIN BARS (INCH)	FRAME ANGLES (INCH)	FRAME BARS (INCH)	L (FT)		
						SINGLE GRADE	DOUBLE GRADE	TRIPLE GRADE
18	2'	3.50	3/2" X 3/4"	4 X 3 X 3/4"	5 X 3/4"	2	4	6
20	2'	3.50	3/2" X 3/4"	4 X 3 X 3/4"	5 X 3/4"	2	4	6
24	3'	2.50	4" X 3/4"	5 X 3 X 3/4"	5 X 3/4"	2	4	6
30	4'	4.00	5/2" X 3/4"	5 X 3 X 3/4"	5 X 3/4"	2	4	6
36	4'	4.00	5/2" X 3/4"	6 X 3 X 3/4"	6 X 3/4"	2	4	6
42	5'	5.00	5/2" X 3/4"	6 X 3/2" X 3/4"	6 X 3/4"	2	4	6
48	5'	5.00	5/2" X 3/4"	6 X 3 X 3/4"	6 X 3/4"	2	4	6



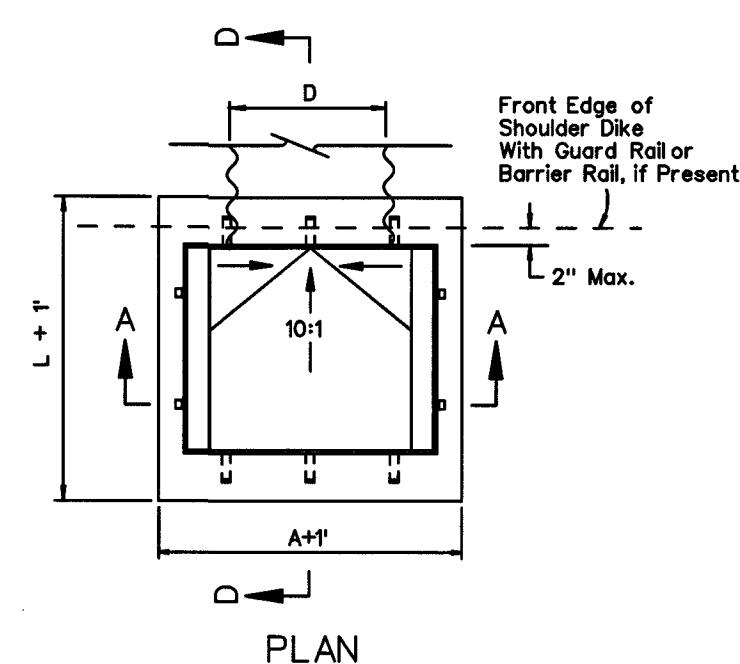
SECTION C-C



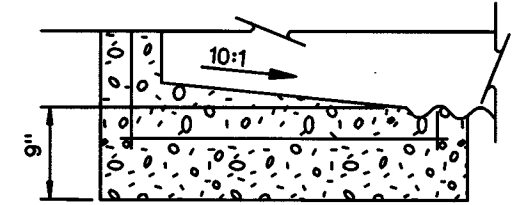
TAB DETAIL



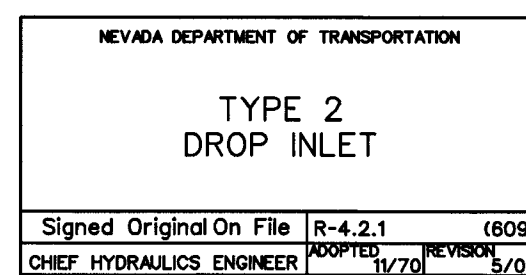
SECTION A-A



PLAN

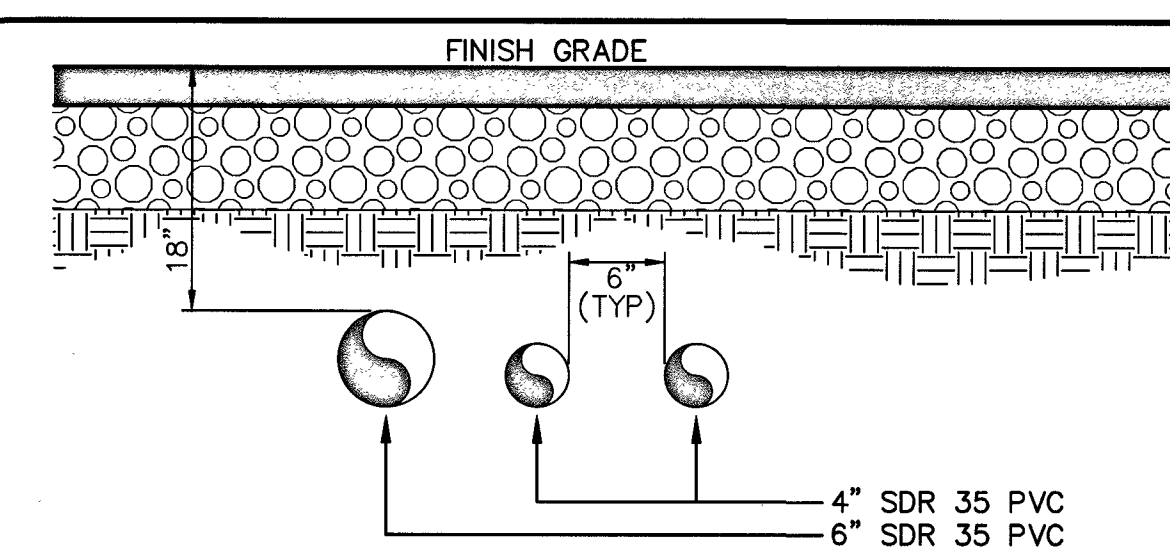


SECTION D-D



TYPE 2
DROP INLET

TYPE II DROP INLET
SCALE: N.T.S.

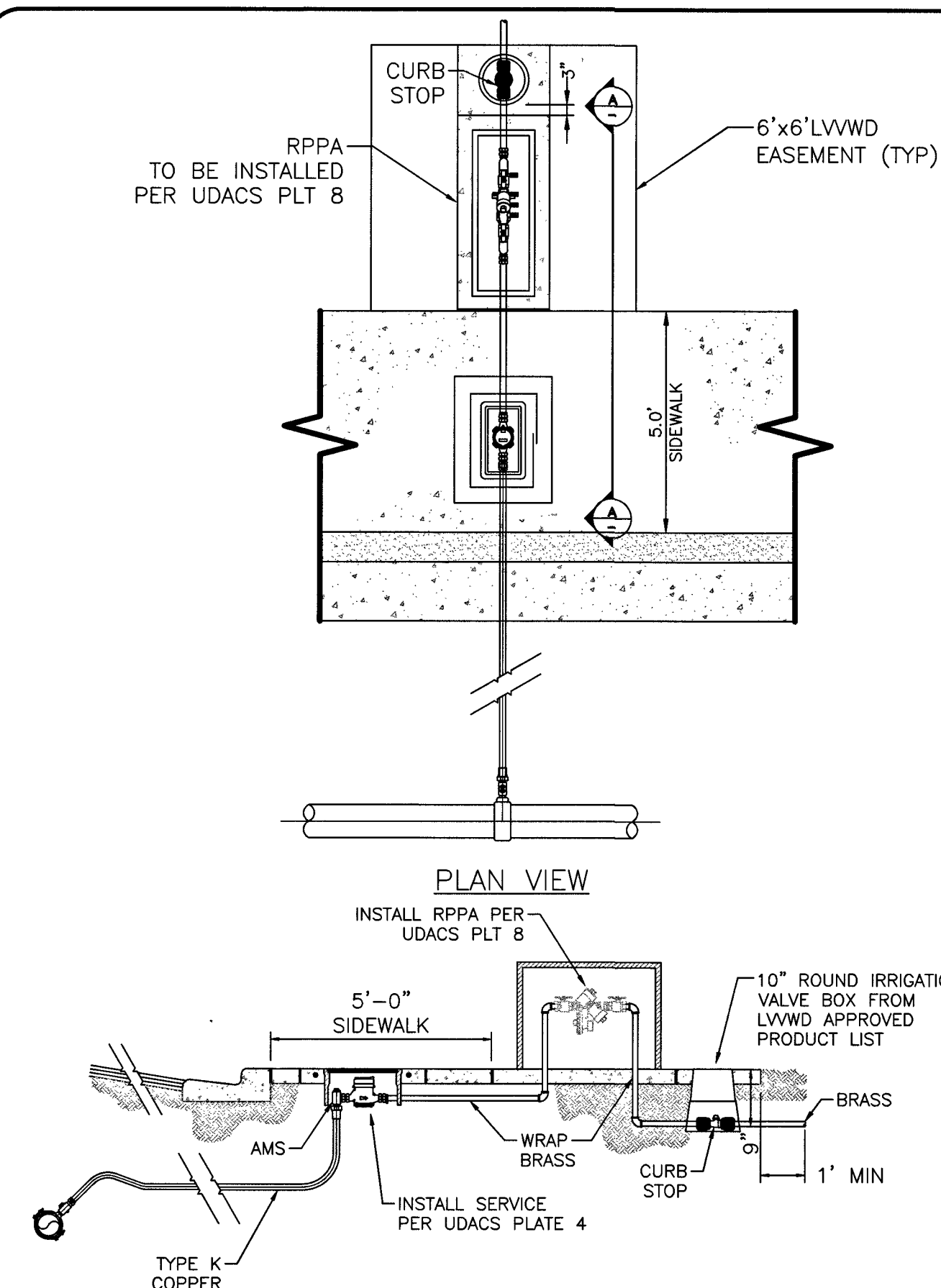


NOTE:
CONTRACTOR TO EXTEND SLEEVES 1' (12") BEHIND BACK OF CURB, TYP.

IRRIGATION SLEEVE DETAIL

NO SCALE

NOT USED



METER & RPPA PER UDACS PLATE NO. 4 & 8 W/ CURB STOP
SCALE: N.T.S.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. 135222 FIRST APPROVED DATE: 12-10-18

10707628
L18-01682



DATE: 10/26/18

PROJECT NO.	62024-238
DESIGN:	LG/MF
DRAWN:	NPD/AS
CHECK:	LG/MF
LOT DATE:	10-26-18
LOT TIME:	08:19:54

GCM'
ENGINEERS\ SURVEYORS

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

Projects: 000\62024 - 238\DWG\production\238-UTILITY_DETAIL.dwg
Andrew Park-Murray

THE HOWARD HUGHES COMPANY, LLC

VILLAGE 24A PARCEL N/O
ENTRY ROAD IMPROVEMENT PLANS

CONSTRUCTION DETAILS

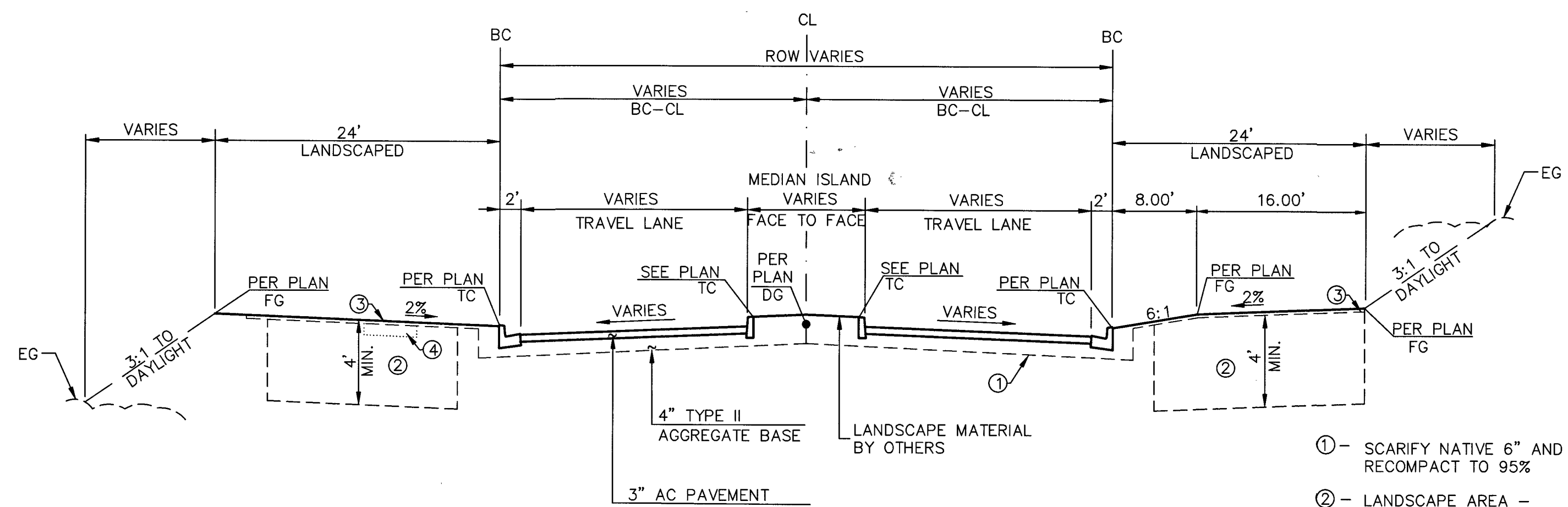
DRAWING
9

PROJ.#:135222A QS:137-33-NE



PROJ#:135222A QS:137-33-NE





PER APPROVED GEOTECHNICAL
REPORT PROJECT #G-18-013
PREPARED BY NOVA
GEOTECHNICAL & INSPECTION
SERVICES MARCH 13, 2018

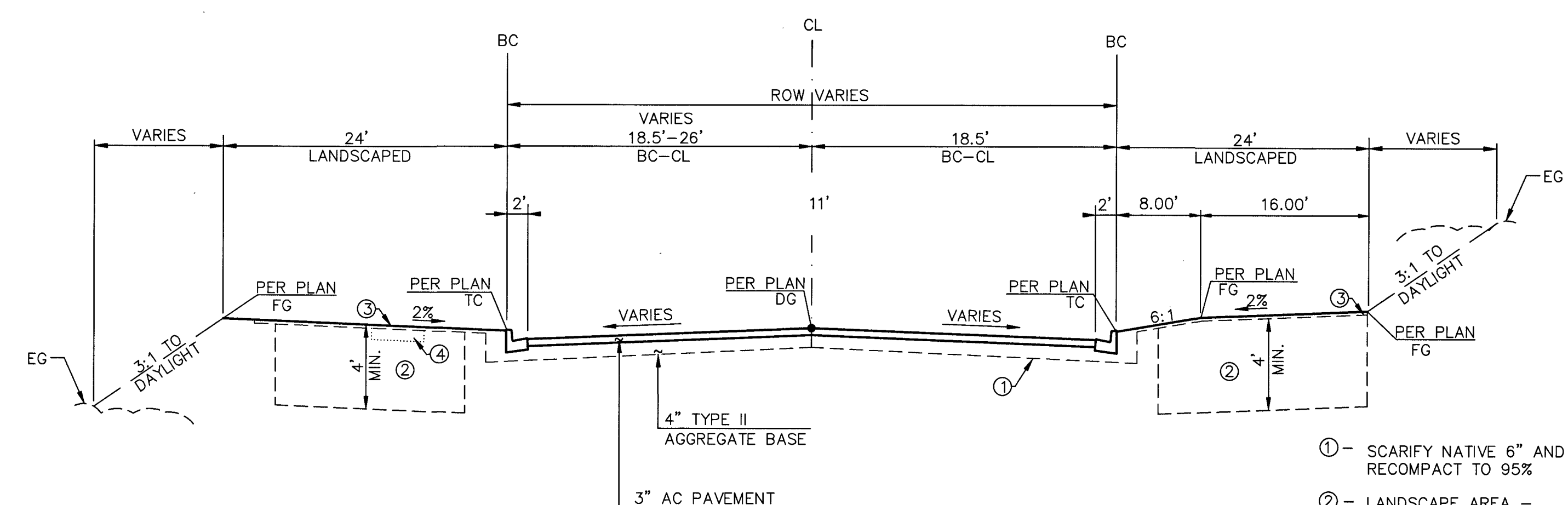
SPRINGBOUGH LANE

(PUBLIC MINOR COLLECTOR)
15+66.34 TO 16+58.06 & 17+87.08 TO 18+76.18

SCALE: NTS

$\frac{E}{12}$

- ① - SCARIFY NATIVE 6" AND RECOMPACT TO 95%
- ② - LANDSCAPE AREA - EXCAVATE AND RECOMPACT TO 85% OR RIP ENTIRE AREA TO DEPTH INDICATED
- ③ - ROUGH GRADE (RG) TO BE 2" BELOW FINISHED GRADE (FG) FOR FUTURE LANDSCAPE PURPOSES
- ④ - FUTURE MEANDERING SIDEWALK (BY OTHERS)



PER APPROVED GEOTECHNICAL
REPORT PROJECT #G-18-013
PREPARED BY NOVA
GEOTECHNICAL & INSPECTION
SERVICES MARCH 13, 2018

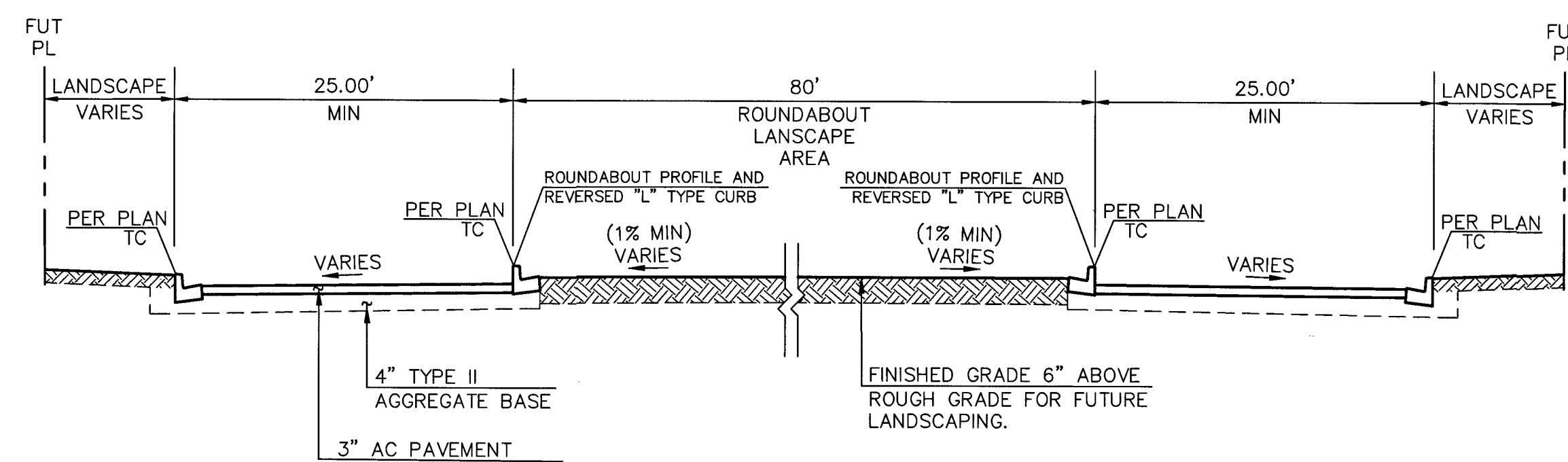
SPRINGBOUGH LANE

(PUBLIC MINOR COLLECTOR)
11+30.65 TO 12+29.34

SCALE: NTS

B
12

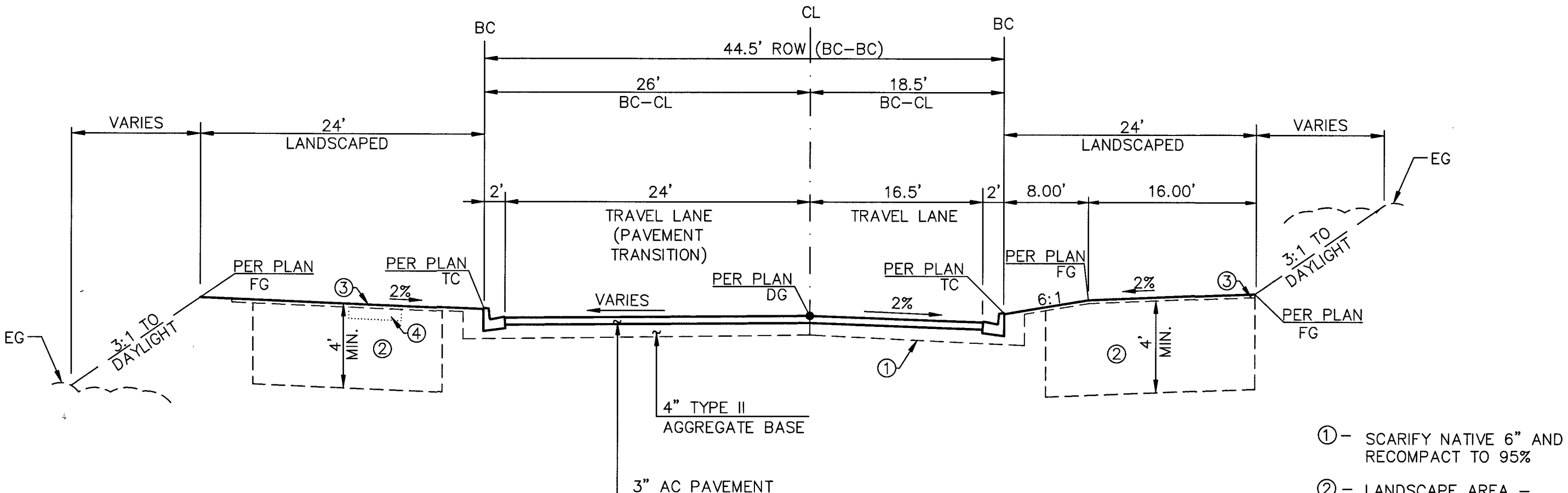
- ① - SCARIFY NATIVE 6" AND RECOMPACT TO 95%
- ② - LANDSCAPE AREA - EXCAVATE AND RECOMPACT TO 85% OR RIP ENTIRE AREA TO DEPTH INDICATED
- ③ - ROUGH GRADE (RG) TO BE 2" BELOW FINISHED GRADE (FG) FOR FUTURE LANDSCAPE PURPOSES
- ④ - FUTURE MEANDERING SIDEWALK (BY OTHERS)



PER APPROVED GEOTECHNICAL
REPORT PROJECT #G-18-013
PREPARED BY NOVA
GEOTECHNICAL & INSPECTION
SERVICES MARCH 13, 2018

SPRINGBOUGH LANE ROUNDABOUT

D
12



PER APPROVED GEOTECHNICAL
REPORT PROJECT #G-18-013
PREPARED BY NOVA
GEOTECHNICAL & INSPECTION
SERVICES MARCH 13, 2018

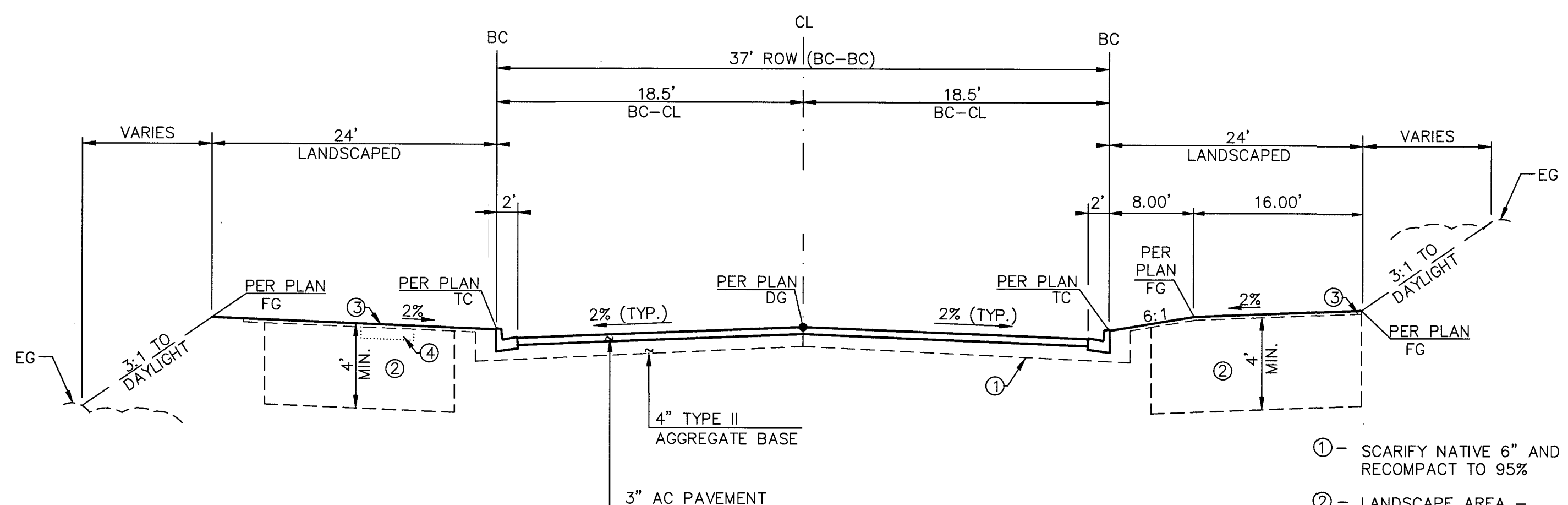
SPRINGBOUGH LANE

(PUBLIC MINOR COLLECTOR)
10+66.60 TO 11+30.65

SCALE: NTS

A
12

- ① - SCARIFY NATIVE 6" AND RECOMPACT TO 95%
- ② - LANDSCAPE AREA - EXCAVATE AND RECOMPACT TO 85% OR RIP ENTIRE AREA TO DEPTH INDICATED
- ③ - ROUGH GRADE (RG) TO BE 2" BELOW FINISHED GRADE (FG) FOR FUTURE LANDSCAPE PURPOSES
- ④ - FUTURE MEANDERING SIDEWALK (BY OTHERS)



PER APPROVED GEOTECHNICAL
REPORT PROJECT #G-18-013
PREPARED BY NOVA
GEOTECHNICAL & INSPECTION
SERVICES MARCH 13, 2018

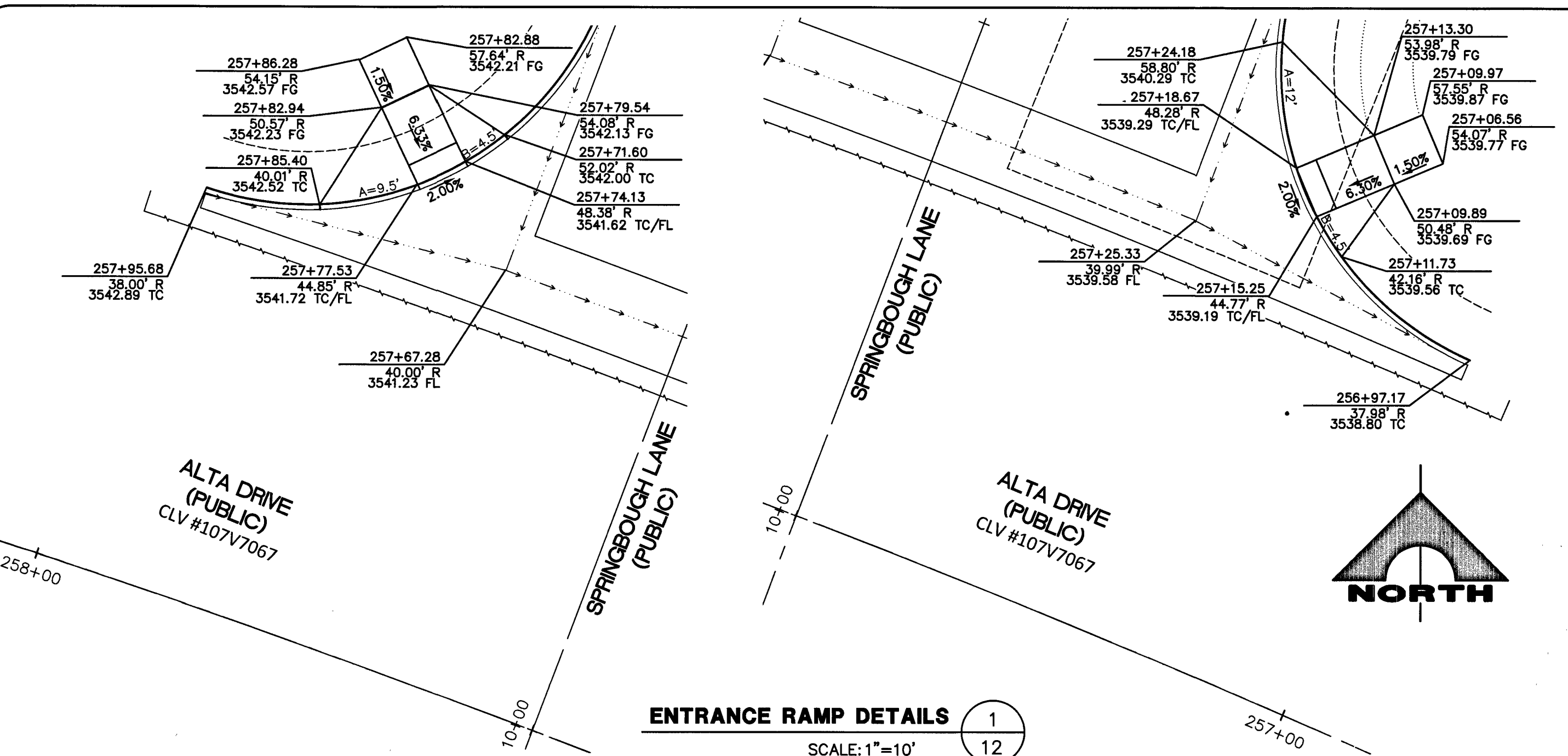
SPRINGBOUGH LANE

(PUBLIC MINOR COLLECTOR)
12+29.34 TO 15+66.34

SCALE: NTS



- ① - SCARIFY NATIVE 6" AND RECOMPACT TO 95%
- ② - LANDSCAPE AREA - EXCAVATE AND RECOMPACT TO 85% OR RIP ENTIRE AREA TO DEPTH INDICATED
- ③ - ROUGH GRADE (RG) TO BE 2" BELOW FINISHED GRADE (FG) FOR FUTURE LANDSCAPE PURPOSES
- ④ - FUTURE MEANDERING SIDEWALK (BY OTHERS)

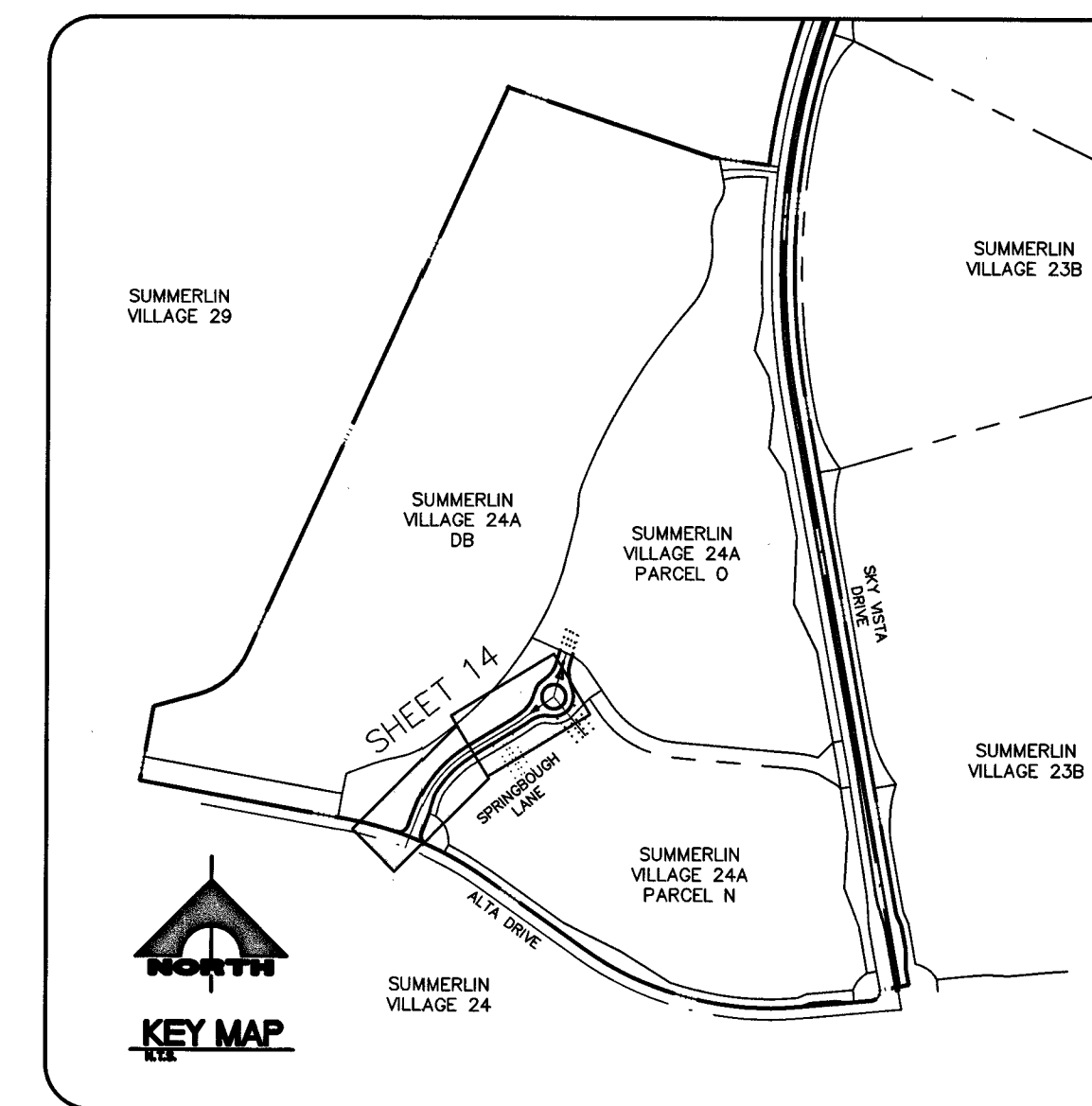
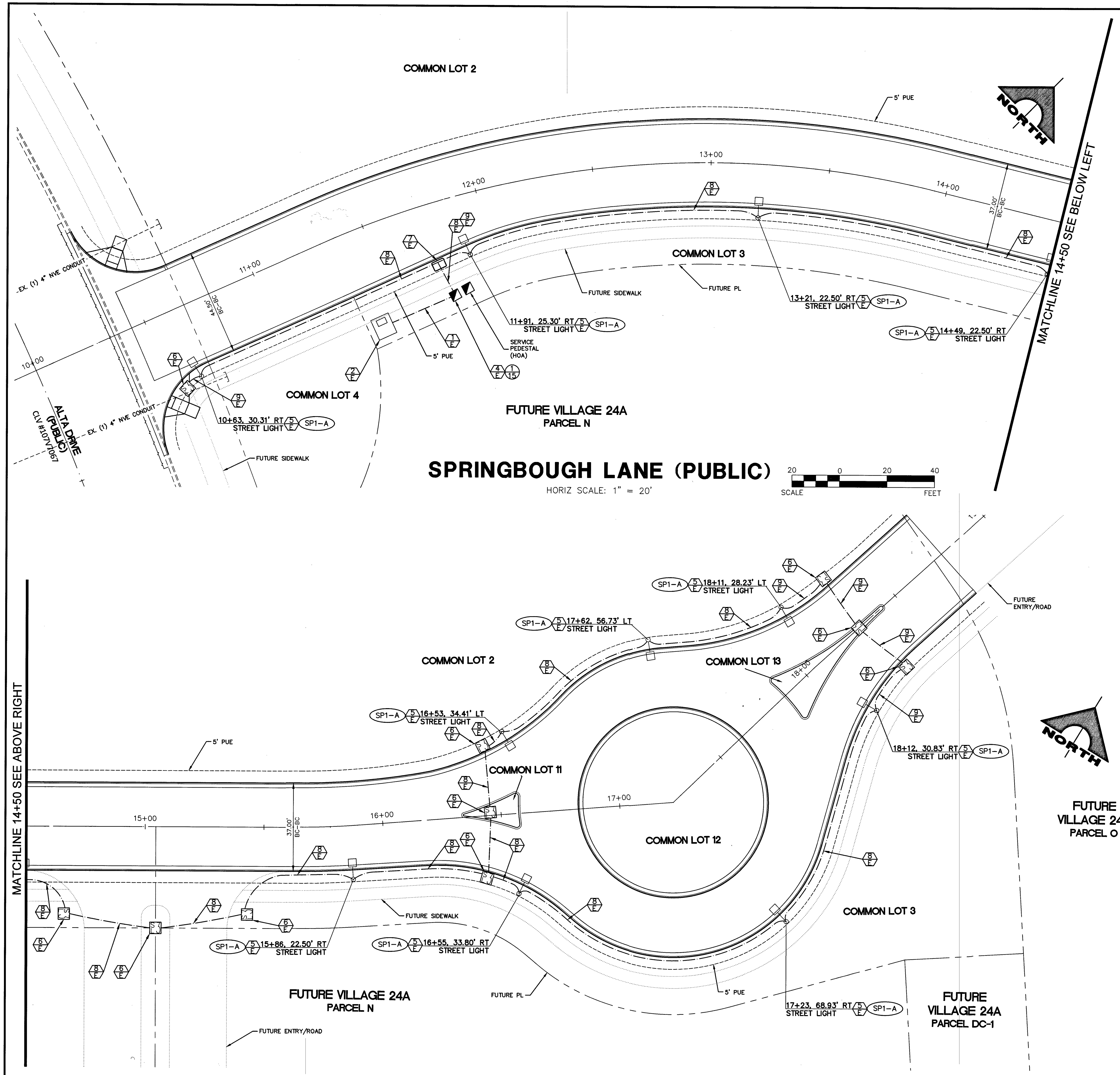


ALTA DRIVE
(PUBLIC)
CLV #107V7065

ENTRANCE RAMP DETAILS

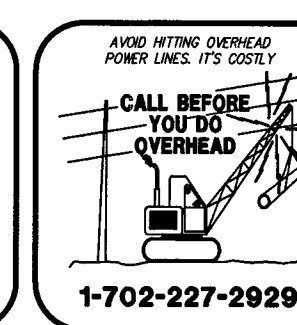
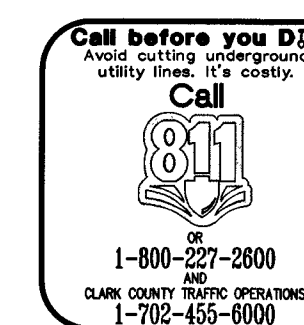
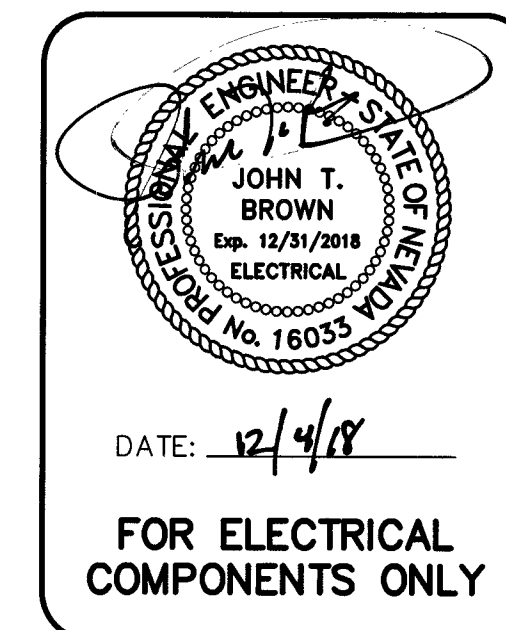
SCALE: 1"=10'

$$\frac{1}{12}$$

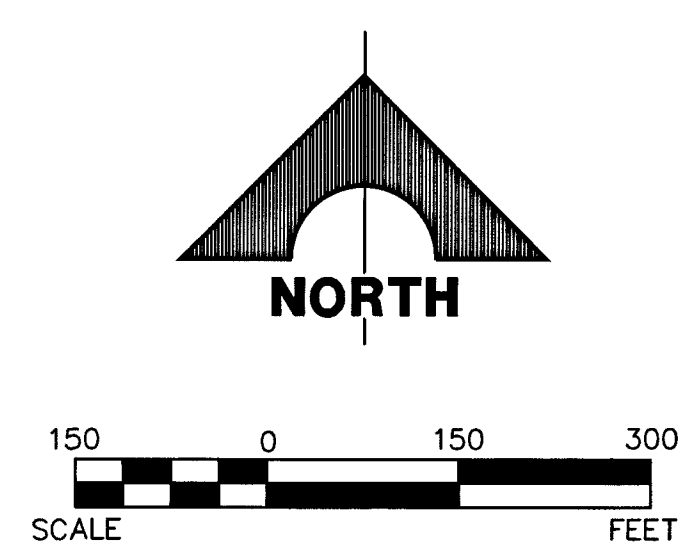
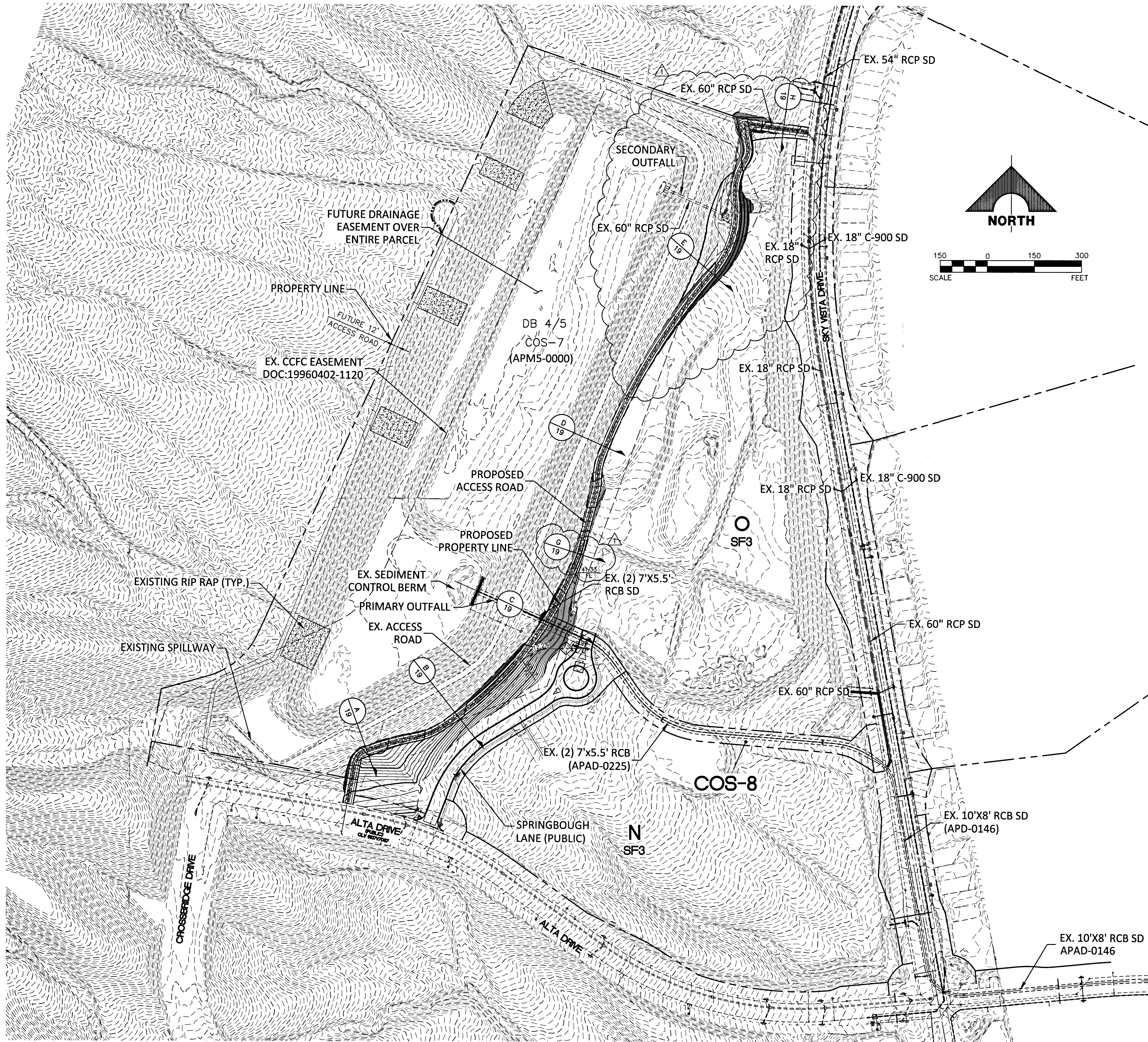



ELECTRICAL CONSTRUCTION NOTES:

- 1. PROPOSED 2" CONDUIT CONTAINING 2#3/0, 1#3/0 NEUT.
- 2. PROPOSED NV ENERGY TRANSFORMER.
- 3. NOT USED
- 4. SP1: PROPOSED SERVICE PEDESTAL. REFER TO ELECTRICAL SERVICE NOTES ON SHEET 15.
- 5. SUMMERLIN TYPE 5 LED STREETLIGHT PER SUMMERLIN LED LIGHTING ANALYSIS DRAWING NC-9.
- 6. PROPOSED NO. 3-1/2 PULLBOX PER USD DWG NO. 326.
- 7. PROPOSED NO. 5 PULLBOX PER USD DWG NO. 326.
- 8. PROPOSED 1-1/4" CONDUIT CONTAINING 2#4, 1#8 GND [STREETLIGHTING CONDUIT].
- 9. PROPOSED 1-1/4" CONDUIT ONLY WITH PULL STRING.



PROJECT NO.	62024-238
DESIGN:	LG/MF
DRAWN:	NPD/AS
CHECK:	LG/MF
DATE:	12-04-18
TIME:	11:05:09
1555 S. RAINBOW BLVD. LAS VEGAS, NV 89146 T: 702.804.2000 F: 702.804.2299 gowingengineering.com	
GOWING ENGINEERS & SURVEYORS	
THE HOWARD HUGHES COMPANY, LLC	
VILLAGE 24A PARCEL N/O	
ENTRY ROAD IMPROVEMENT PLANS	
STREETLIGHT, CONDUIT AND ELECTRICAL PLAN	
DRAWING	
14	
14 OF 20 SHTS	



BASIS OF BEARINGS 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. 7LV0934SW6	FND 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)

Call before you Dig
Avoid hitting underground utility lines. It's costly.
Call 811
1-800-227-2800
CLARK COUNTY WATER OPERATIONS
1-702-455-0000

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.
CALL BEFORE YOU DO OVERHEAD
1-702-227-2929

FAST
Call before you UnderGround
1-702-432-6300
FREEMAN AND JETTER SYSTEM OF TRANSPORTATION

FLOOD ZONE AE NOTE

FLOOD ZONE AE: THE 1% ANNUAL CHANCE FLOOD (100-YEAR FLOOD), ALSO KNOWN AS THE BASE FLOOD, IS THE FLOOD THAT HAS 1% CHANCE OF BEING EQUALLED OR EXCEEDED IN ANY GIVEN YEAR. THE SPECIAL FLOOD HAZARD AREA IS THE AREA SUBJECT TO FLOODING BY THE 1% ANNUAL CHANCE FLOOD. THE BASE FLOOD ELEVATION IS DETERMINED FOR ZONE AE AND IS THE WATER SURFACE ELEVATION OF THE 1% ANNUAL CHANCE FLOOD.

PROJECT NO.	62024-238
DESIGN:	LG/MF
DRAWN:	NPD/AS
CHECK:	LG/MF
PLOT DATE:	02-13-19
DATE:	09-04-42

THE HOWARD HUGHES COMPANY, LLC

VILLAGE 24A PARCEL N/O ENTRY ROAD IMPROVEMENT PLANS

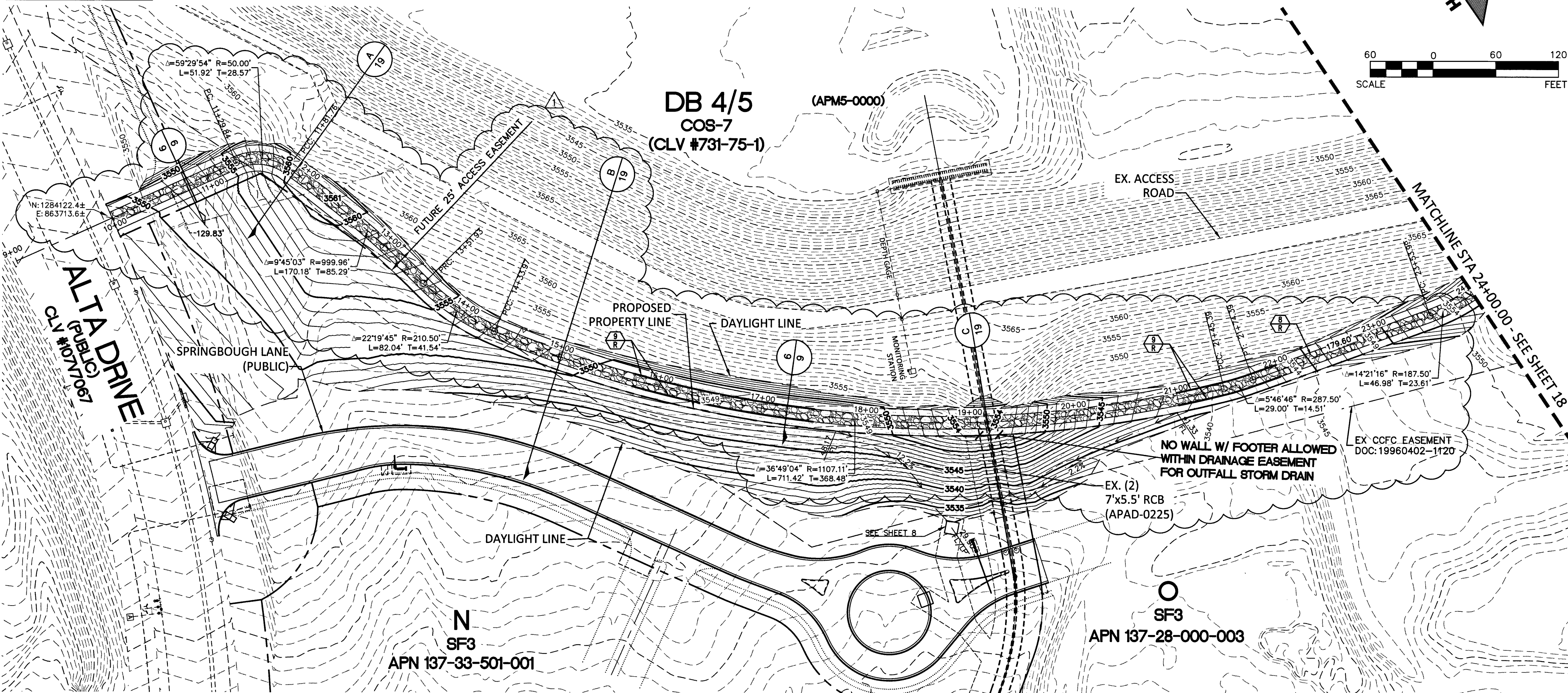
12' ACCESS ROAD OVERALL PLAN

DRAWING

16

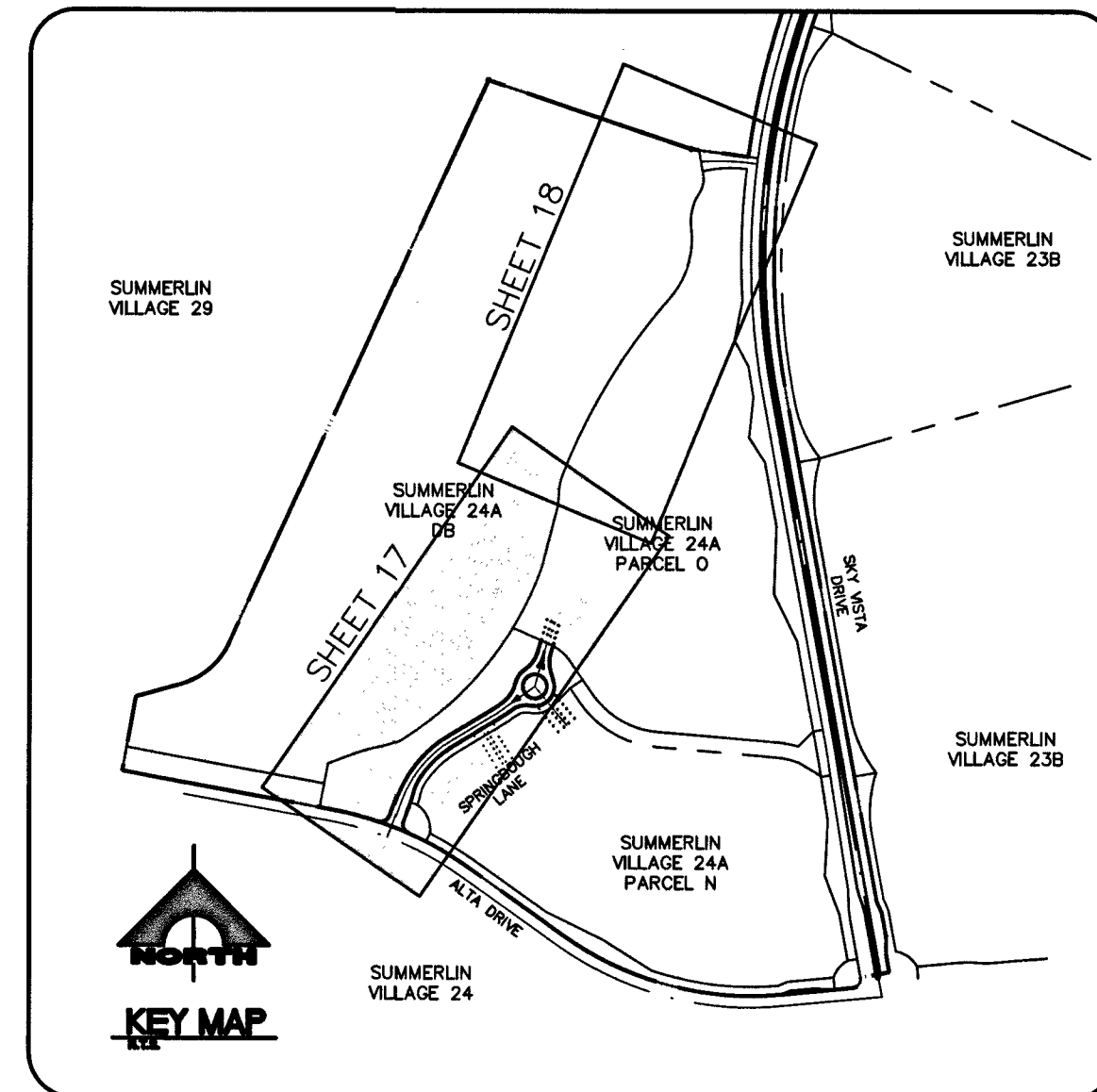
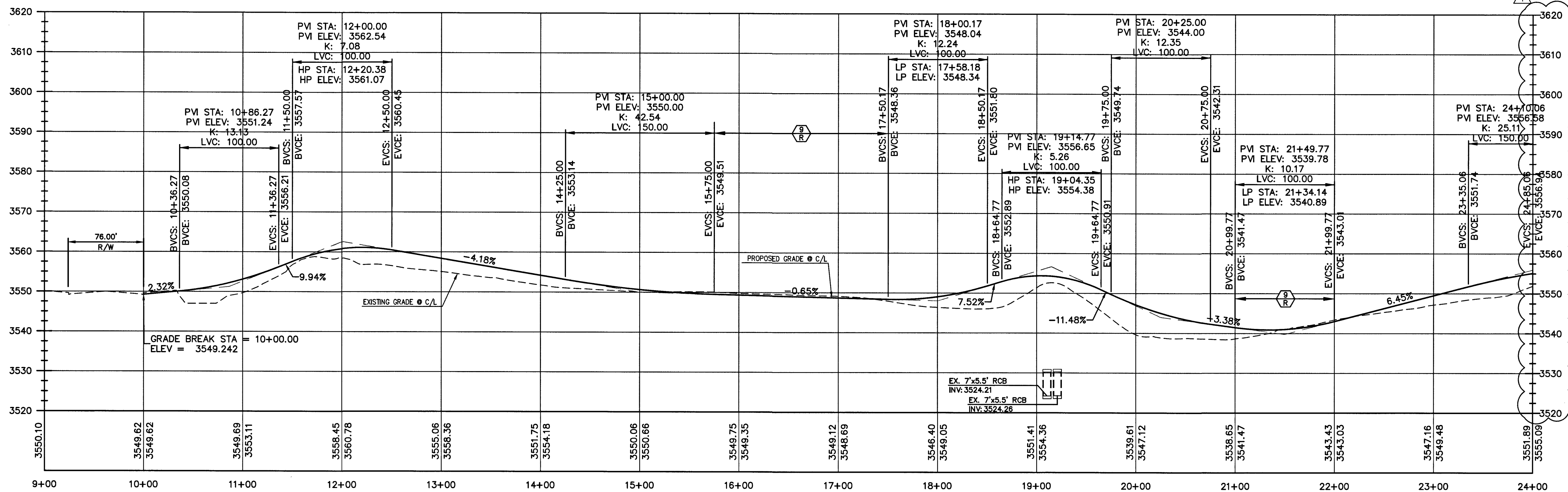
16 OF 20 SHTS

FOR EXISTING IMPROVEMENT PLANS,
REFER TO THE FOLLOWING SET:
"SUMMERLIN VILLAGE 24
ALTA DRIVE IMPROVEMENTS"



ACCESS ROAD

HORIZ SCALE: 1" = 60'
VERT SCALE: 1" = 5'



CIVIL CONSTRUCTION NOTES

- EXISTING STORM DRAIN MANHOLE PROTECT IN PLACE. RAISE COVER TO FINISH GRADE.
- CONSTRUCT ACCESS ROAD PER DETAIL 6 SHEET 9.
- CONSTRUCT 3' DEEP CONCRETE CUT-OFF WALL PER DETAIL 6 SHEET 19.

BASIS OF BEARINGS 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.

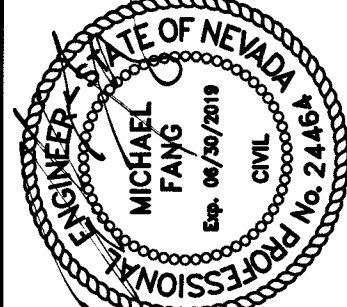
LINEAR UNIT: US SURVEY FOOT (FTUS)
DATUM (REFERENCE FRAME): NAD 83 (2011) EPOCH 2010.00
SYSTEM: NEVADA COORDINATE REFERENCE SYSTEM (NCRS)
ZONE: LAS VEGAS HIGH ELEVATION ZONE

PROJECTION: TRANSVERSE MERCATOR
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EASTING AT CENTRAL MERIDIAN: 300,000.00 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	NAD83 DATUM	NAD83 DATUM
CLV BM NO. 7100345W6	FIN 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.	62024-238
DESIGN:	LG/MF
DRAWN:	NPD/AS
CHECK:	LG/MF
DATE:	02-13-19
TIME:	09:05:11

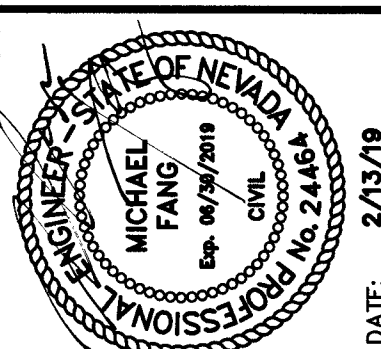
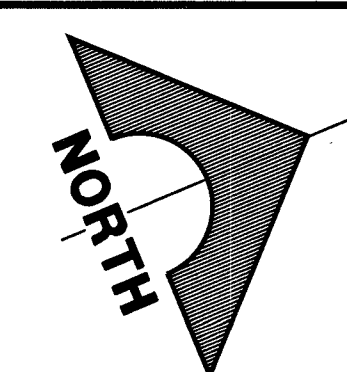
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
goweengineering.com

THE HOWARD HUGHES COMPANY, LLC
VILLAGE 24A PARCEL N/O
ENTRY ROAD IMPROVEMENT PLANS
12' ACCESS ROAD PROFILE 1

DRAWING

17

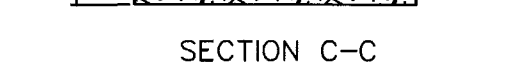
17 OF 20 SHTS



The Concrete And Reinforcing Quantities Are Based On The H Min. Shown. Increase The Concrete And Reinforcing Base Quantity By The Corresponding Add Rate (Per Foot Of Increased H) If The H Specified Is Larger Than H Min.



1. **M** concrete shall be class A or AA.
2. Reinforcing steel shall be No. 4 bars with maximum spacing at 18 inch centers, with 90° hooks and all intersections and embedded 2 inches clear of all concrete surfaces.
3. Exposed edges of concrete shall be chamfered 1 inch.
4. Structural steel weight includes the 2 inch nominal diameter pipe standard weight and frame angles (3" x 3" 3/8" and 3" x 1 1/2" x 1/2" x 3/8").
5. For 2 inch nominal diameter pipe see ASTM A53.
6. See sheet R-2.9.1 for details if connecting MRPs to walls.
7. Slope catch basin floors 10:1 from all directions toward curbside. If the catch basin is located in the gutter, slope floor lines to outlet pipe and provide a 10:1 slope to flow lines).
8. Rein rebar continuous thru construction joint. Joint must be a minimum 3 inches from horizontal bars.
9. Additional pipe penetrations may be placed in any wall.







11	HORIZ. SCALE: 1" = 50'	VERT. SCALE: 1" = 10'
----	------------------------	-----------------------











10.	8	F	AS	-19	:59
-----	---	---	----	-----	-----

VD.	
5	

--	--	--

[illegible]

- [illegible]

GCI
ENGINEERS'SURVEYORS

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

Project 600 (2024-238 VMO production) Struct 238-STRUCT.dwg
Andrew Park-Murray

DRAWING
20
20 OF 20 SHOTS



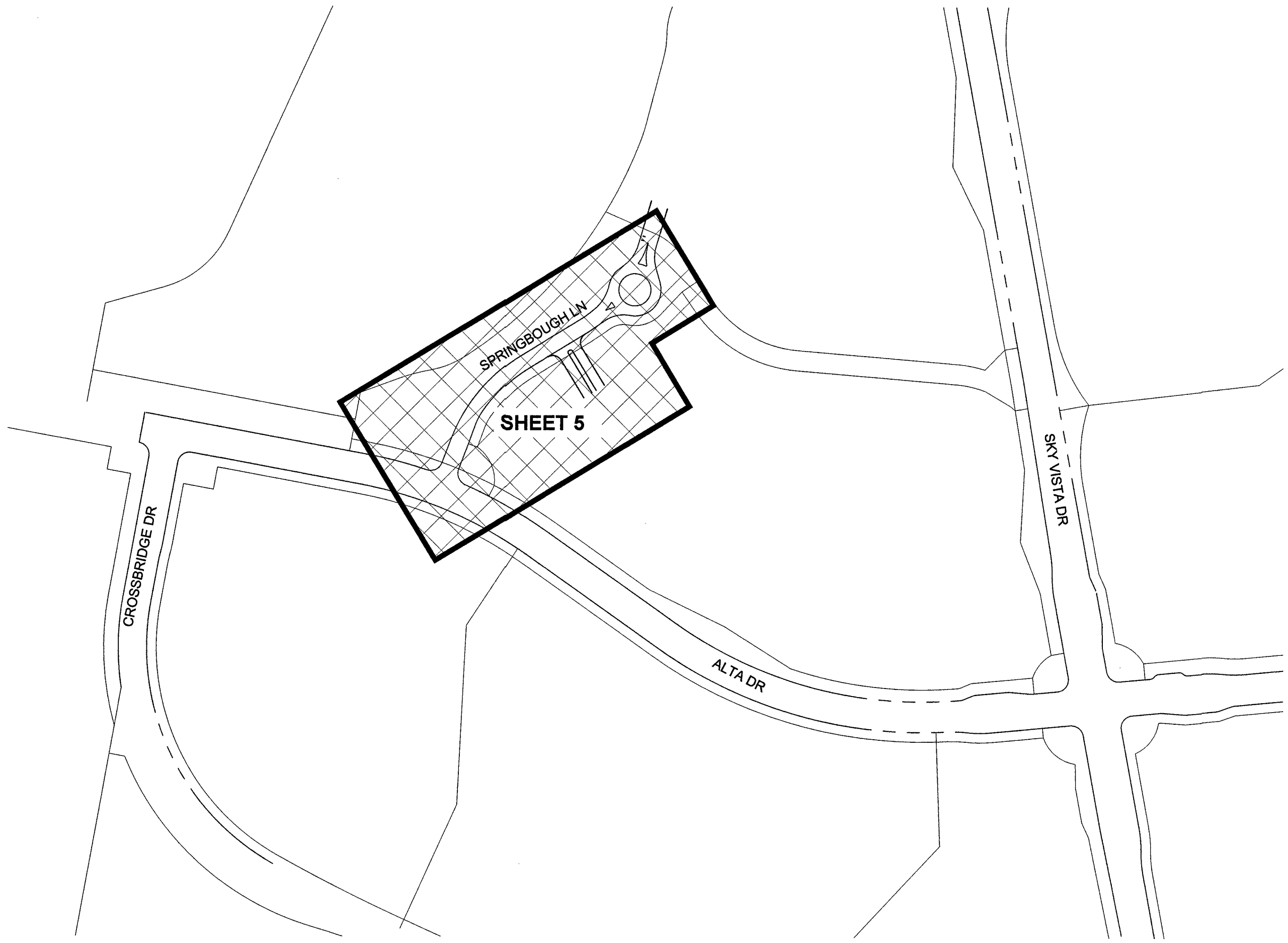
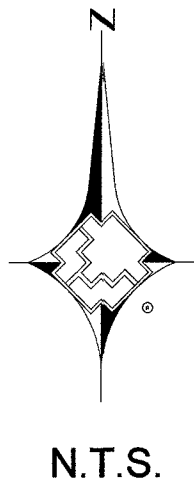
- 1 PLAN - PIPE COLLAR**
SCALE: NTS



107V7628
L18-01682

LEGEND

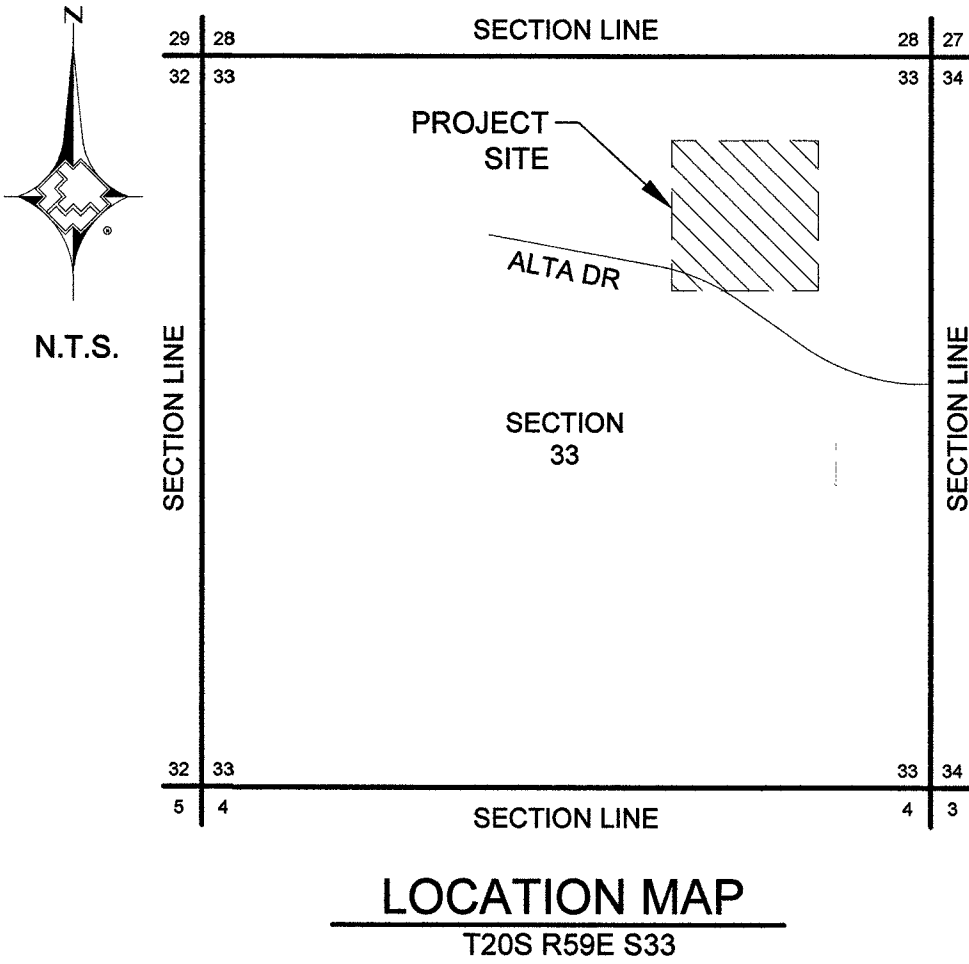
EXISTING GAS MAIN	
EXISTING GAS SERVICE	
GAS LINE TO BE ABANDONED	
STEEL RISER	
ANODELESS RISER	
GASLIGHT	
GAS VALVE	
EXCESS FLOW VALVE	
RELIEF VALVE	
COUPLINGS	
BOND OVER	
TEST POINT	
INSULATOR	
REGULATOR STATION	
RECTIFIER	
ANODE	
SCADA	
METER SET ASSEMBLY	
PURGE POINT	
BRANCH,CVT,LINE STOPPER	
PROPOSED GAS MAIN	
PROPOSED GAS SERVICE	
EXISTING EASEMENT	
ROW LINE	
PROPERTY LINE	
STREET CENTERLINE	
EDGE OF PAVEMENT	
CABLE LINE - UNDERGROUND	
ELECTRIC - OVERHEAD	
ELECTRIC - UNDERGROUND	
FIBER OPTIC - UNDERGROUND	
PHONE - OVERHEAD	
PHONE - UNDERGROUND	
RECLAIMED WATER	
SEWER	
STORMWATER	
WATER	
UTILITY PEDESTALS	
FIRE HYDRANT	
MANHOLE	
WATER VALVE	
SURVEY MONUMENT	
POWER POLE	
GAS FLOW ARROW	



SHEET INDEX MAP

SHEET INDEX

- 1 COVER SHEET
- 2 SIGNATURE SHEET
- 3 NOTES AND STANDARD DETAILS
- 4 NOTES AND STANDARD DETAILS
- 5 PLAN SHEET
- 6 DETAIL SHEET



City of Las Vegas

Total footage located in Public ROW 886'

APPROVED FOR CONSTRUCTION

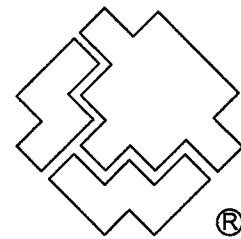
THIS APPROVAL IS FOR WORK IN CLV R/W OR CLV EASEMENTS ONLY. OBTAINING PERMISSIONS OR EASEMENTS FOR WORK SHOWN ON PRIVATE PROPERTY IS THE RESPONSIBILITY OF THE UTILITY.

Signature: [Signature] DATE: 9/9/19 APPROVAL

Hansen _____ Dwg _____



Know what's below. Call before you dig.



SOUTHWEST GAS CORPORATION

Southwest Gas Corporation Confidential and Proprietary Information

For Reference Only - Not Valid for Line Locating Purposes. No representation or warranty is made for the adequacy, accuracy or completeness of the information or depictions shown. This information is protected from further disclosure under the federal Freedom of Information Act and the Protected Critical Infrastructure Information Act of 2002, and Nevada Revised Statutes § 239C.

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REVISIONS						D_W_VALLEY		JOB TYPE	WR NO.	ENGINEER/TECHNICIAN	LEE DEBRUMS	PHONE: (702) 365-2192			
						SYSTEM MAOP:	60	HP SERVICE	☐	3876289	ACCOUNT REP.	ANDREW CARLSON	PHONE: (702) 370-5067		
						SYSTEM MOP:	55	DISTRIBUTION	☒		PROJECT CONTACT	VICTORIA HACKER	PHONE: (702) 791-4518		
											SHEET NO.	1 OF 6	SCALE N.T.S.	DATE 07/01/2019	
NO.	DESCRIPTION				BY	DATE	APPVD.				DWN. BY	INFINITY	CHKD. BY CS	APPVD. BY BWJ	
PERMIT INFORMATION		ISOLATION AREA	LOCATION	ATLAS OR TILE		N/A		FEEDER	☐	RELATED WR NO.S	SMMERLIN VILLAGE 24A PARCEL N/O ENTRY				
CITY OF LAS VEGAS TAX CODE: 02-0200		ISO_21_DIST_323	T20S R59E S33 M.D.M.	X561Y516 X561Y518		SYSTEM MAOP:	N/A	TRANS. BY DEF	☐	N/A					
						SYSTEM MOP:	N/A	TRANS > 20%	☐						
														107V7698	219-01682

PRESSURE TEST PERFORMED BY AND VERIFIED BY SIGNATURES

I HAVE **PERFORMED** THE PRESSURE TESTS AS SHOWN ON THE AS-BUILT AND IN ACCORDANCE WITH THE OPERATIONS MANUAL.
I HAVE **VERIFIED** THE PRESSURE TESTS AS SHOWN ON THE AS-BUILT AND IN ACCORDANCE WITH THE OPERATIONS MANUAL.

PRESSURE TEST # _____ PERFORMED BY _____ DATE _____
SWG VERIFIED BY _____ DATE _____

PURGE PLAN PERFORMED BY SIGNATURES

PURGE PLAN WAS COMPLETED IN ACCORDANCE WITH THE OPERATIONS MANUAL GUIDELINES:

PERFORMED BY _____ DATE _____ SHEET# _____
LOCATION _____

PIPE JOINER VISUAL INSPECTION CERTIFICATION

I HAVE VISUALLY INSPECTED ALL HEATED FUSIONS, SOLVENT, CEMENT, MECHANICAL JOINTS, AND WELDS THAT I HAVE PERFORMED

NAME _____ PJQ# _____

2ND VISUAL INSPECTION CERTIFICATION

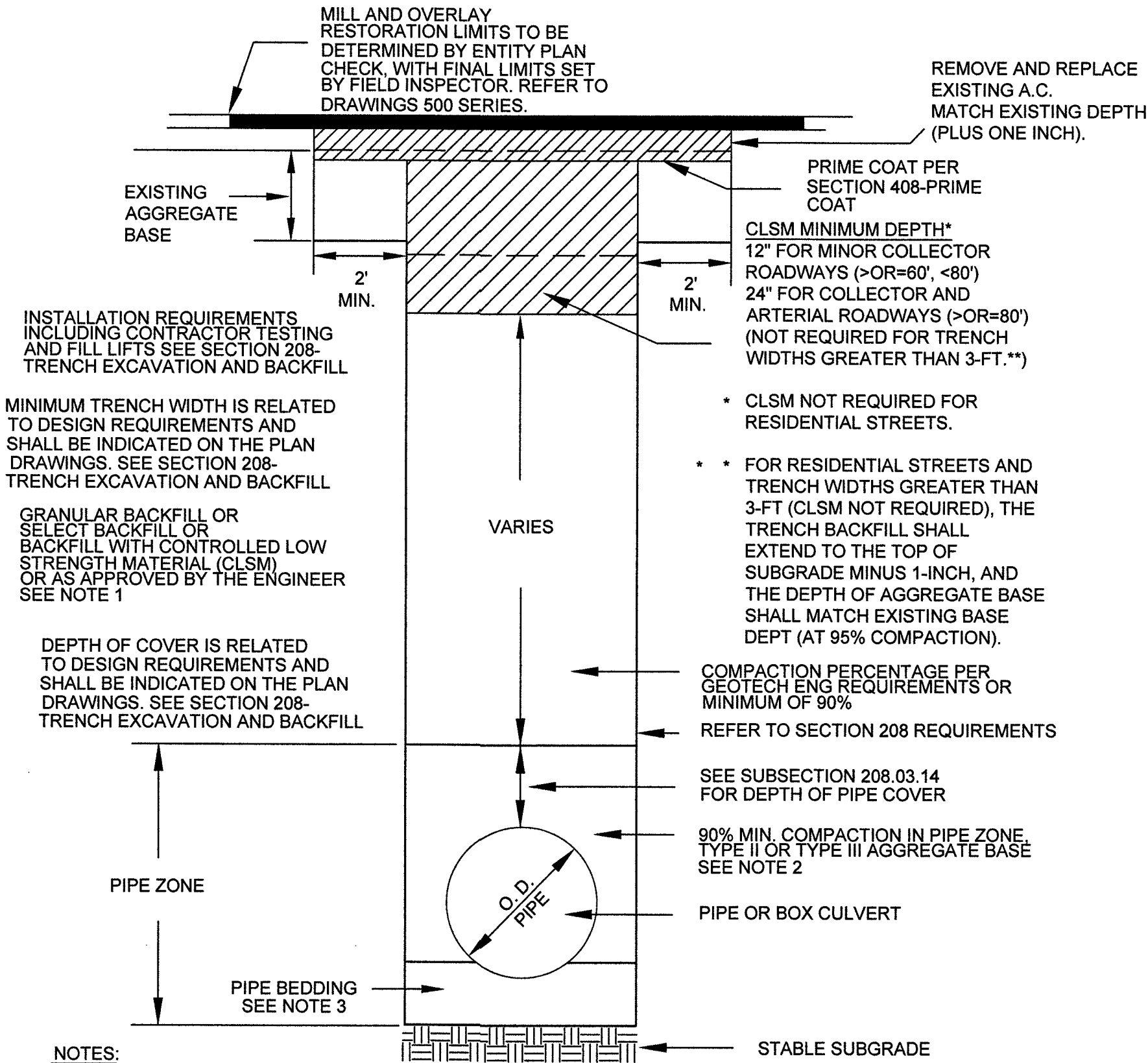
I HAVE VISUALLY INSPECTED ALL HEATED FUSIONS, SOLVENT, CEMENT AND MECHANICAL JOINTS THAT HAVE BEEN PERFORMED (INSPECTION OF FINAL JOINT ON PLASTIC PIPE ONLY)

NAME _____ PJQ# _____

CONSTRUCTION

INSPECTOR _____ PJQ# _____
FOREMAN _____ PJQ# _____
REVIEWED BY _____ PJQ# _____

- GENERAL NOTES:
- SUGGESTED GAS LOCATIONS ARE TO CLEAR SUBSTRUCTURES LOCATED IN THE FIELD.
 - ALL PIPELINE CONSTRUCTION SHALL CONFORM TO APPLICABLE JURISDICTION SPECIFICATIONS.
 - DO NOT SCALE THIS DRAWING.
 - CHANGE IN PROPOSED MAIN LOCATION MUST BE AUTHORIZED BY SWG ENGINEER PRIOR TO INSTALLATION.
 - GAS MAINS SHALL BE PURGED PER OPERATIONS MANUAL.
 - ALL EXISTING UTILITY LOCATIONS TO BE VERIFIED PRIOR TO START OF CONSTRUCTION.
 - CONTACT ENGINEERING FOR BYPASS INFORMATION.
 - ALL MAIN TIE-INS REQUIRING TEES ARE TO BE FULL-FLOW TEES UNLESS OTHERWISE STATED.
 - ALL SHORING REQUIREMENTS SHALL CONFORM TO APPLICABLE PORTIONS OF THE OPERATIONS MANUAL.
 - REQUEST FOR SURVEYING AND/OR STAKING WILL BE SUBMITTED TO ENGINEERING 72 HOURS IN ADVANCE, MINIMUM.
 - PROPOSED MAIN SHOULD END 3' PAST THE LAST SERVICE FOR MAIN NOT BEING STUBBED FOR FUTURE PHASE(S).
 - MINIMUM TEST DURATION REQUIREMENTS AND GUIDELINES FOR MAIN INSTALLATION IN SYSTEMS <60 PSIG ARE:
 - MINIMUM TEST DURATION IS 8 HOURS FOR PIPES 1-1/4-INCHES OR GREATER, WITH FOOTAGES BETWEEN 3,001 FEET AND 10,000 FEET.
 - ALL FOOTAGES GREATER THAN 3,000 FEET REQUIRE A CHART.
 - CONSTRUCTION SHALL CONTACT ENGINEERING FOR MINIMUM TEST DURATIONS IF THE FOOTAGE TO BE TESTED EXCEEDS 10,000 FEET.
 - TRENCHING AND BACKFILL TO CONFORM WITH RTC STANDARD 503, AND UNIFORM STANDARD SPECIFICATION SECTION 208.
 - MAINTAIN MINIMUM 12" VERTICAL SEPARATION AT ALL POINTS OF CROSSING.
 - MAINTAIN A MINIMUM 3' PARALLEL SEPARATION.
 - ANY EXCAVATION EXPOSING LVVWD FACILITIES 24" IN DIAMETER AND LARGER MUST REMAIN OPEN UNTIL INSPECTED BY LVVWD. NO BACKFILL MATERIAL IS TO BE PLACED IN THE EXCAVATION UNTIL APPROVED BY THE LVVWD INSPECTOR. ANY DAMAGE TO THE FACILITIES MUST BE REPORTED TO LVVWD IMMEDIATELY. CONTRACTOR TO CALL (702) 258-7171 TO SCHEDULE LVVWD INSPECTION.



NOTES:

- NO STONES OR LUMPS GREATER THAN 3" PERMITTED IN TRENCH 2' OR LESS IN WIDTH.
- TRENCH WIDTH, BEDDING, SUBGRADE AND PIPE ZONE REQUIREMENTS FOR UTILITY INSTALLATIONS SHALL CONFORM TO THE RESPECTIVE ENTITY REQUIREMENTS.
- CRUSHED ROCK MAY BE USED FOR PIPE BEDDING ONLY IF MATERIAL USE HAS BEEN SPECIFICALLY APPROVED BY THE GOVERNING AGENCY. SEE STANDARD DRAWING NO. 505 FOR PIPE BEDDING METHODS.
- LAS VEGAS VALLEY WATER DISTRICT REQUIRES PIPE BEDDING AND BACKFILL WITHIN THE PIPE ZONE TO BE OF THE SAME MATERIAL.

RTC STD DWG 503

ABBREVIATIONS:

AA ALDYL-A PIPE
ABND ABANDONED
AC ASPHALTIC CONCRETE
AC# ACCELERATED CONSTRUCTION
ACP ASBESTOS CEMENT PIPE
APN ASSESSOR PARCEL NUMBER

BLVD BOULEVARD
BM BENCHMARK
BO BLOW OFF
BTU BRITISH THERMAL UNIT

CIP CAST IRON PIPE
CL CENTERLINE
CMP CORRUGATED METAL PIPE
CP CATHODIC PROTECTION

D INSIDE DIAMETER
DDCA DESIGN DATA COLLECTION APPLICATION
DET DETAIL
DIP DUCTICLE IRON PIPE
DIA DIAMETER
DIMP DISTRIBUTION INTEGRITY MANAGEMENT PROGRAM
DP DESIGN PRESSURE
DWG DRAWING

EFV EXCESS FLOW VALVE
EG EXISTING GRADE
ELEC ELECTRICAL
ELEV ELEVATION
EMS ELECTRONIC MARKING SYSTEM
E.P END POINT
EPR ELECTRONIC PRESSURE RECORDERS
ESMT EASEMENT
EX EXISTING

FERC FEDERAL ENERGY REGULATORY COMMISSION
FH FIRE HYDRANT

GIR GAS INFRASTRUCTURE REPLACEMENT
GPR GAS PRESSURE REGULATOR

HCA HIGH CONSEQUENCE AREA
HDD HEATING DEGREE DAY
HDPE HIGH DENSITY POLYETHYLENE PIPE
HP HIGH PRESSURE
HOP HISTORIC OPERATING PRESSURE
HVTT HIGH VOLUME TAPPING TEE

IN INCH(ES)
IPS IRON PIPE SIZE

JT JOINT TRENCH

MAOP MAXIMUM ALLOWABLE OPERATING PRESSURE
M&C MEASUREMENTS & CONTROL
MCFH THOUSAND CUBIC FEET PER HOUR
MH MANHOLE
MOP MAXIMUM OPERATING PRESSURE
MP MANUFACTURER'S PRESSURE RATING
MSA METER SET ASSEMBLY
MVP MAPPING VERIFICATION PROCEDURE

NAP NOT A PART
NTSB NATIONAL TRANSPORTATION SAFETY BOARD

NTS NOT TO SCALE
OC ON CENTER
OD OUTSIDE DIAMETER
OH OVERHEAD
OHE OVERHEAD ELECTRIC

P POWER
PAOP POTENTIAL ALLOWABLE OPERATING PRESSURE
PCC PORTLAND CEMENT CONCRETE
PE POLYETHYLENE PIPE
PH POT HOLE
PHMSA PIPELINE & HAZARDOUS MATERIALS SAFETY ADMINISTRATION

PL PROPERTY LINE
PIC POTENTIAL IMPACT CIRCLE
PLS PRESSURE LIMITING STATION
P.O.B POINT OF BEGINNING
PP POWER POLE
PROP PROPOSED
PQF PREQUALIFIED FITTING
PSIG POUNDS PER SQUARE INCH (GAUGE)
PVC POLYVINYL CHLORIDE
PUE PUBLIC UTILITY EASEMENT

RC REINFORCED CONCRETE
RCP REINFORCED CONCRETE PIPE
ROW RIGHT OF WAY

SCADA SUPERVISORY CONTROL AND DATA ACQUISITION
SD STORM DRAIN

SDMH STORM DRAIN MANHOLE
SDR STANDARD DIMENSION RATIO
SF SQUARE FOOT
SHT SHEET
SLSV SERVICE LINE SHUT-OFF VALVE
SMYS SPECIFIED MAXIMUM YIELD STRENGTH
SS SANITARY SEWER
SST STAINLESS STEEL

ST STREET
STA STATION
STL STEEL
SWG SOUTHWEST GAS

TDS TEST DATA SHEET
TEL TELEPHONE
TB THRUST BLOCK
TOP TOP OF PIPE
TP TEST POINT
TS TECHNICAL SERVICE NOTE
TRIMP TRANSMISSION INTEGRITY MANAGAMENT PROGRAM
TYP TYPICAL

U.E. UTILITY EASEMENT
UGE UNDERGROUND ELECTRIC
UOC UNUSUAL OPERATING CONDITION
USD UNIFORM STANDARD DRAWING
UGT UNDERGROUND TELEPHONE

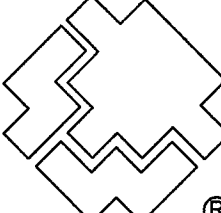
VCP VITRIFIED CLAY PIPE
VERT VERTICAL
VG VALLEY GUTTER
VSP VINTAGE STEEL PIPE

W WATER
WMS WORK MANAGEMENT SYSTEM
WR WORK REQUEST
WT WALL THICKNESS
WV WATER VALVE

YD YARD(S)

DESIGN PIPE SUMMARY	
DESIGN QTY.	DESCRIPTION
829'	4" PE8100 MAIN
62'	2" PE8100 MAIN

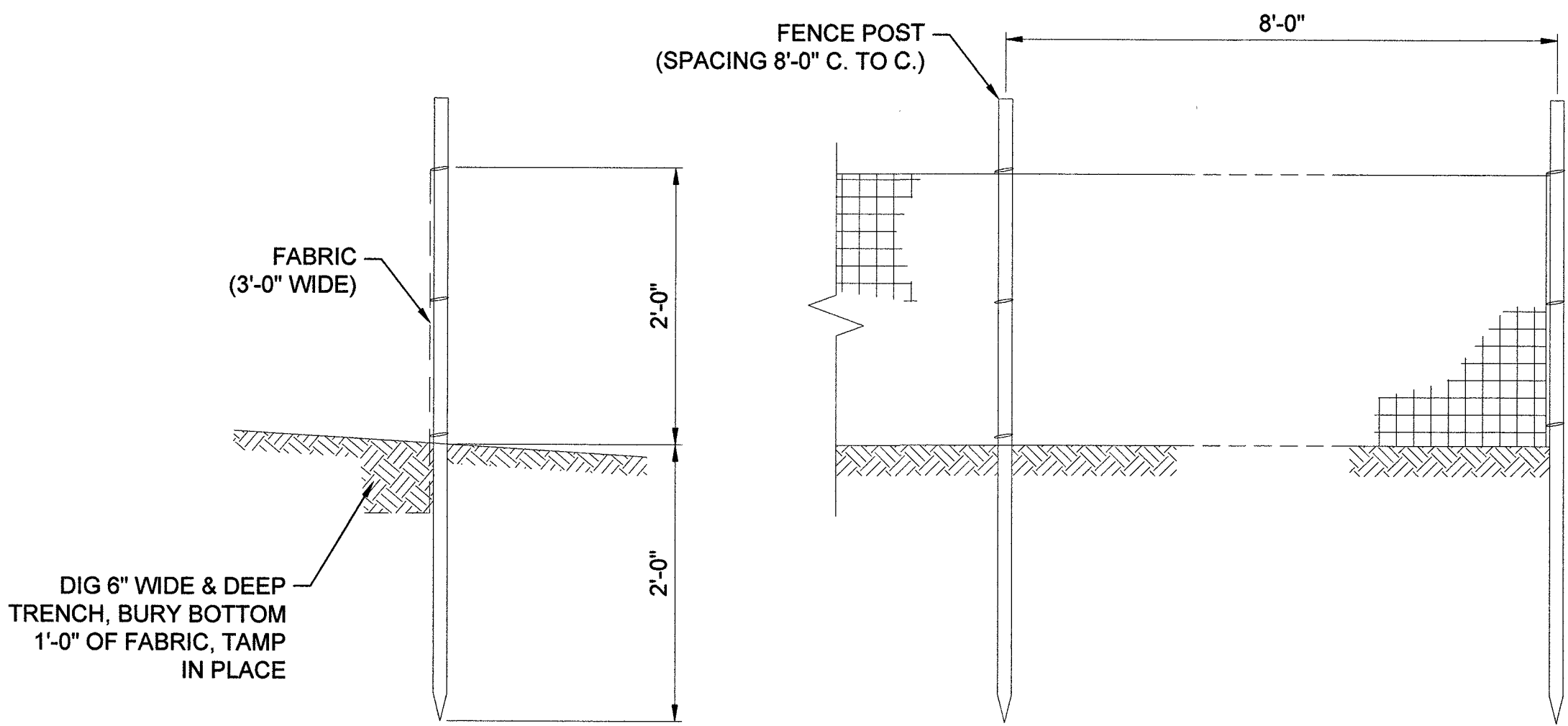
THIS PROJECT IS NOT INSTALLING, ABANDONING, OR TYING INTO ANY STEEL GAS FACILITIES.

 Know what's below. Call before you dig.	 SOUTHWEST GAS CORPORATION	Southwest Gas Corporation Confidential and Proprietary Information For Reference Only - Not Valid for Line Locating Purposes. No representation or warranty is made for the adequacy, accuracy or completeness of the information or depictions shown. This information is protected from further disclosure under the federal Freedom of Information Act and the Protected Critical Infrastructure Information Act of 2002, and Nevada Revised Statutes § 239C. This document may not be copied, distributed, or shared to any other person or entity in any manner or form without prior written consent of Southwest Gas Corporation.	REVISIONS					D_W_VALLEY		JOB TYPE		WR NO.		ENGINEER/TECHNICIAN			LEE DEBRUMS			PHONE: (702) 365-2192		
								SYSTEM MAOP: 60		HP SERVICE ☐		3876289		ACCOUNT REP.			ANDREW CARLSON			PHONE: (702) 370-5067		
								SYSTEM MOP: 55		DISTRIBUTION ☒				PROJECT CONTACT			VICTORIA HACKER			PHONE: (702) 791-4518		
										FEEDER ☐		RELATED WR NO.S		SHEET NO. 3 OF 6			SCALE N.T.S.			DATE 07/01/2019		
										TRANS. BY DEF ☐		N/A		DWN. BY INFINITY			CHKD. BY CS			APPVD. BY BWJ		
										TRANS > 20% ☐		N/A										
PERMIT INFORMATION			ISOLATION AREA		LOCATION		ATLAS OR TILE		N/A													
CITY OF LAS VEGAS TAX CODE: 02-0200			ISO_21_DIST_323		T20S R59E S33 M.D.M.		X561Y516 X561Y518		SYSTEM MAOP: N/A				N/A						SMMERLIN VILLAGE 24A PARCEL N/O ENTRY			
									SYSTEM MOP: N/A													

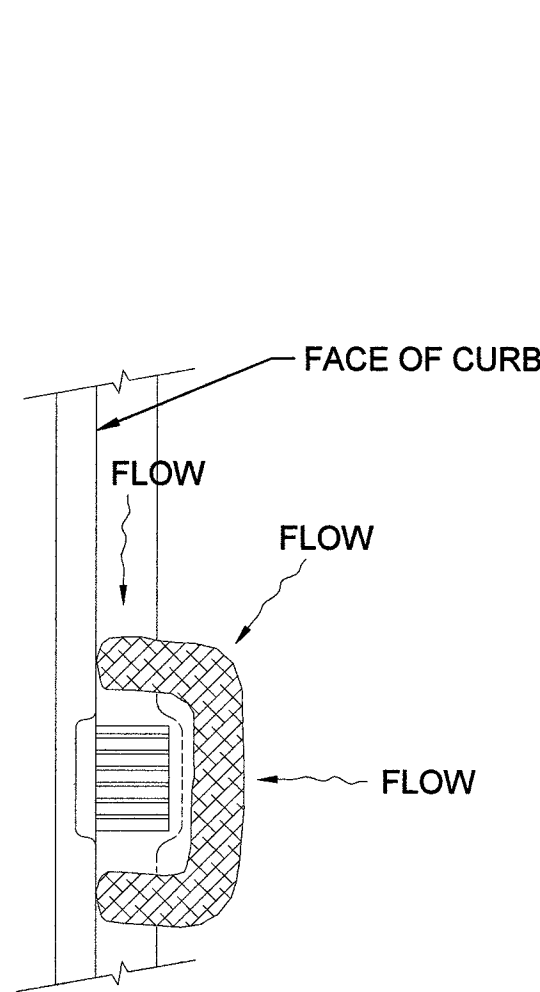
107V7628 L18-01682

22

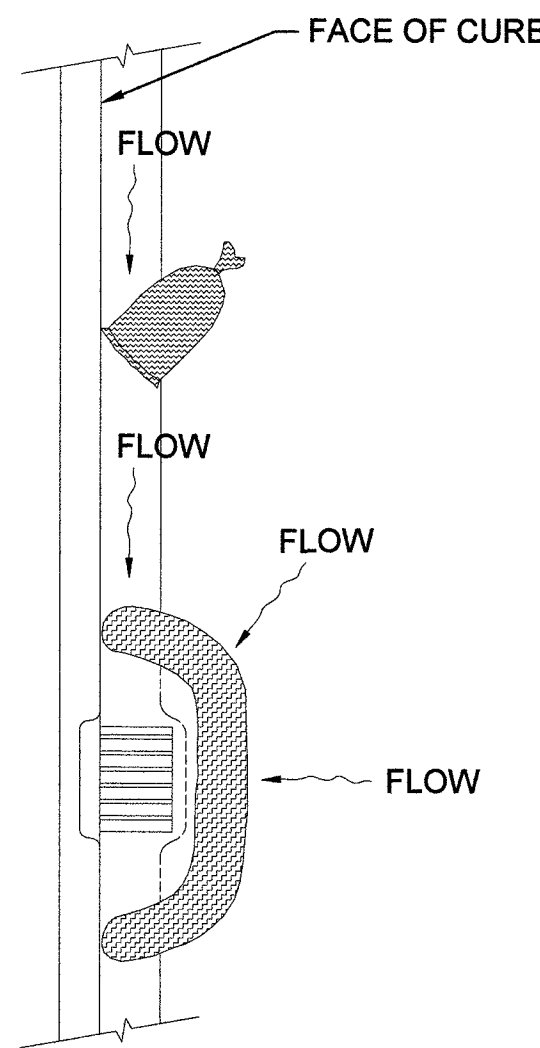
TYPICAL SWPPP BMPs DETAILS



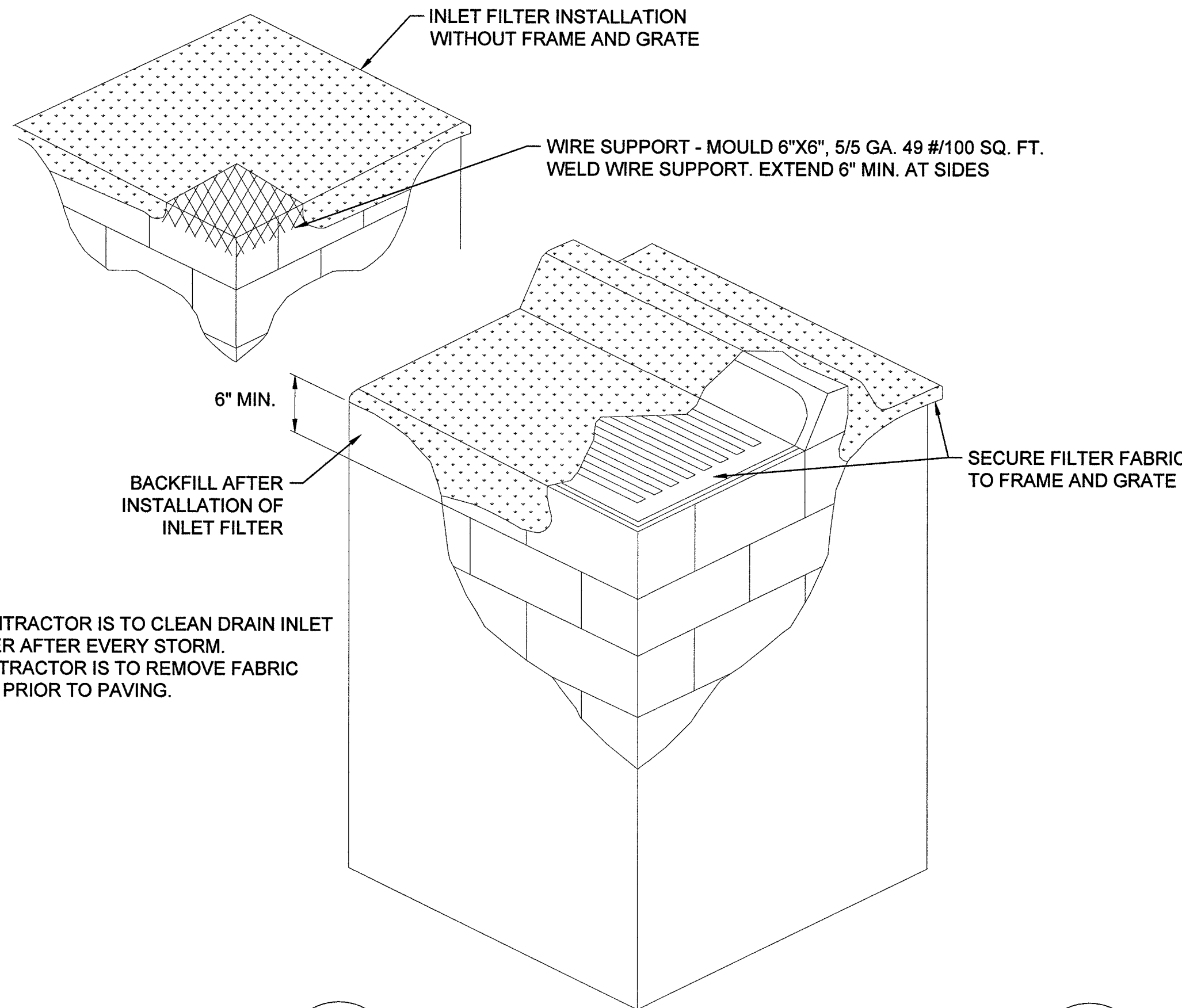
1
4
SILT FENCE
NOT TO SCALE



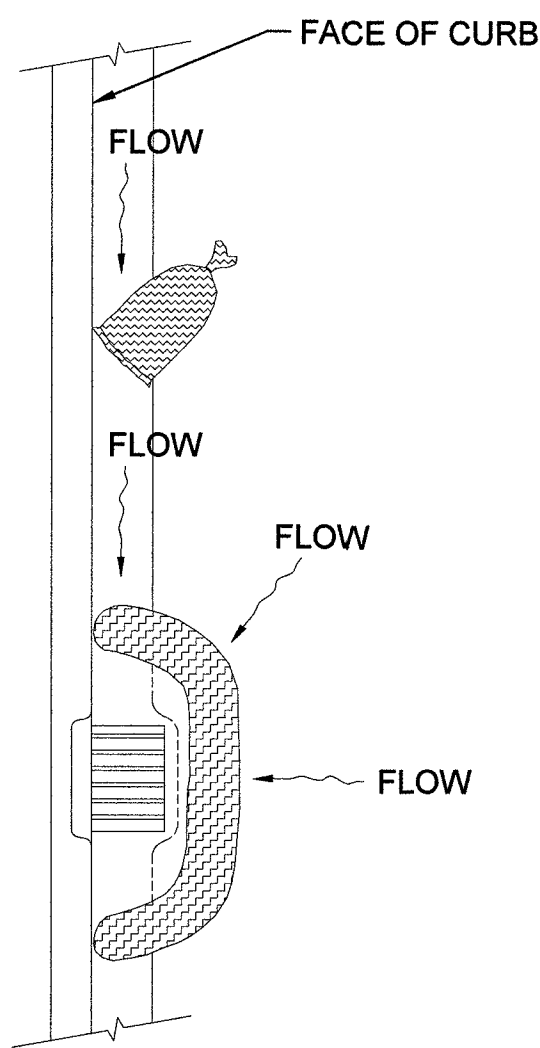
2
4
FIBER ROLL
NOT TO SCALE



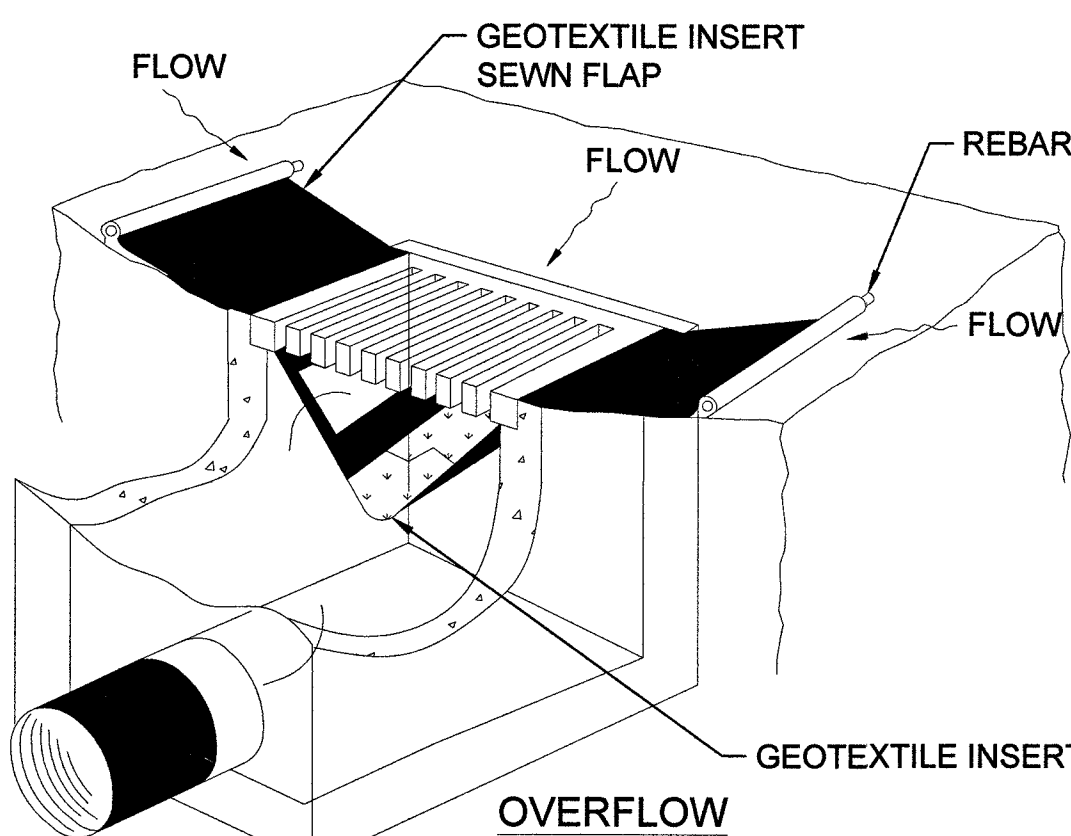
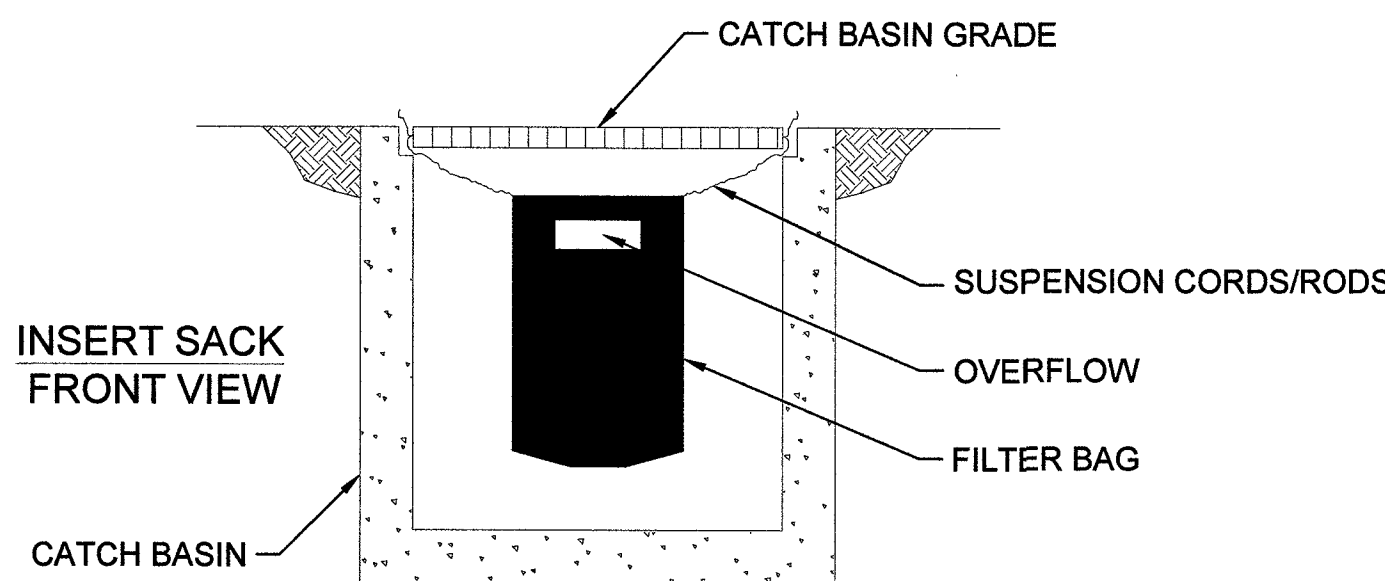
3
4
SAND BAG / ROLL
NOT TO SCALE



4
4
DRAIN INLET FILTER
NOT TO SCALE



5
4
GRAVEL BAG / ROLL
NOT TO SCALE



NOTE:
RECESSED CURB INLET MUST BE BLOCKED WHEN USING FILTER FABRIC INLET SACKS.
SIZE OF FILTER FABRIC INLET SACK TO BE DETERMINED BY MANUFACTURER.

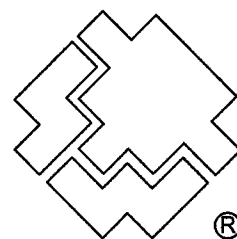
6
4
SEDIMENT FILTER BAG
NOT TO SCALE

STORMWATER NOTES

1. SOUTHWEST GAS CORPORATION, IT'S CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL INSTALL ONE OF THE APPROPRIATE BMPs FOR THE PROTECTION OF EXISTING STORM DRAIN INLETS, WITHIN OR SIGNIFICANTLY NEAR ANY IMPROVED RIGHT-OF-WAY, FROM DEBRIS AND SEDIMENT RESULTING FROM CONSTRUCTION OF NATURAL GAS FACILITIES.
2. SOUTHWEST GAS CORPORATION, IT'S CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATED IN, THE PUBLIC RIGHTS OF WAY OF CLARK COUNTY AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM, USING BEST MANAGEMENT PRACTICES DETAILED ON THIS SHEET.
3. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF SOUTHWEST GAS CORPORATION, IT'S CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE LISTED BMPs ON THIS SHEET DO NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN THE CLARK COUNTY CODE - CHAPTER 24.40/STORM SEWER SYSTEM DISCHARGE AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.
4. ACCUMULATED SEDIMENT IN BMPs SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.



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REVISIONS				D_W_VALLEY	
				SYSTEM MAOP:	60
				SYSTEM MOP:	55
NO.	DESCRIPTION	BY	DATE	APPVD	
PERMIT INFORMATION		ISOLATION AREA	LOCATION	ATLAS OR TILE	N/A
CITY OF LAS VEGAS TAX CODE: 02-0200		ISO_21_DIST_323	T20S R59E S33 M.D.M.	X561Y516 X561Y518	SYSTEM MAOP: N/A SYSTEM MOP: N/A

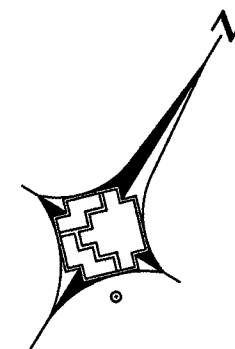
JOB TYPE	WR NO.
HP SERVICE ☐	3876289
DISTRIBUTION ☒	
FEEDER ☐	RELATED WR NO.S
TRANS. BY DEF ☐	
TRANS > 20% ☐	N/A

ENGINEER/TECHNICIAN	LEE DEBRUMS	PHONE: (702) 365-2192
ACCOUNT REP.	ANDREW CARLSON	PHONE: (702) 370-5067
PROJECT CONTACT	VICTORIA HACKER	PHONE: (702) 791-4518
SHEET NO. 4 OF 6	SCALE N.T.S.	DATE 07/01/2019
DWN. BY INFINITY	CHKD. BY CS	APPVD. BY BWJ

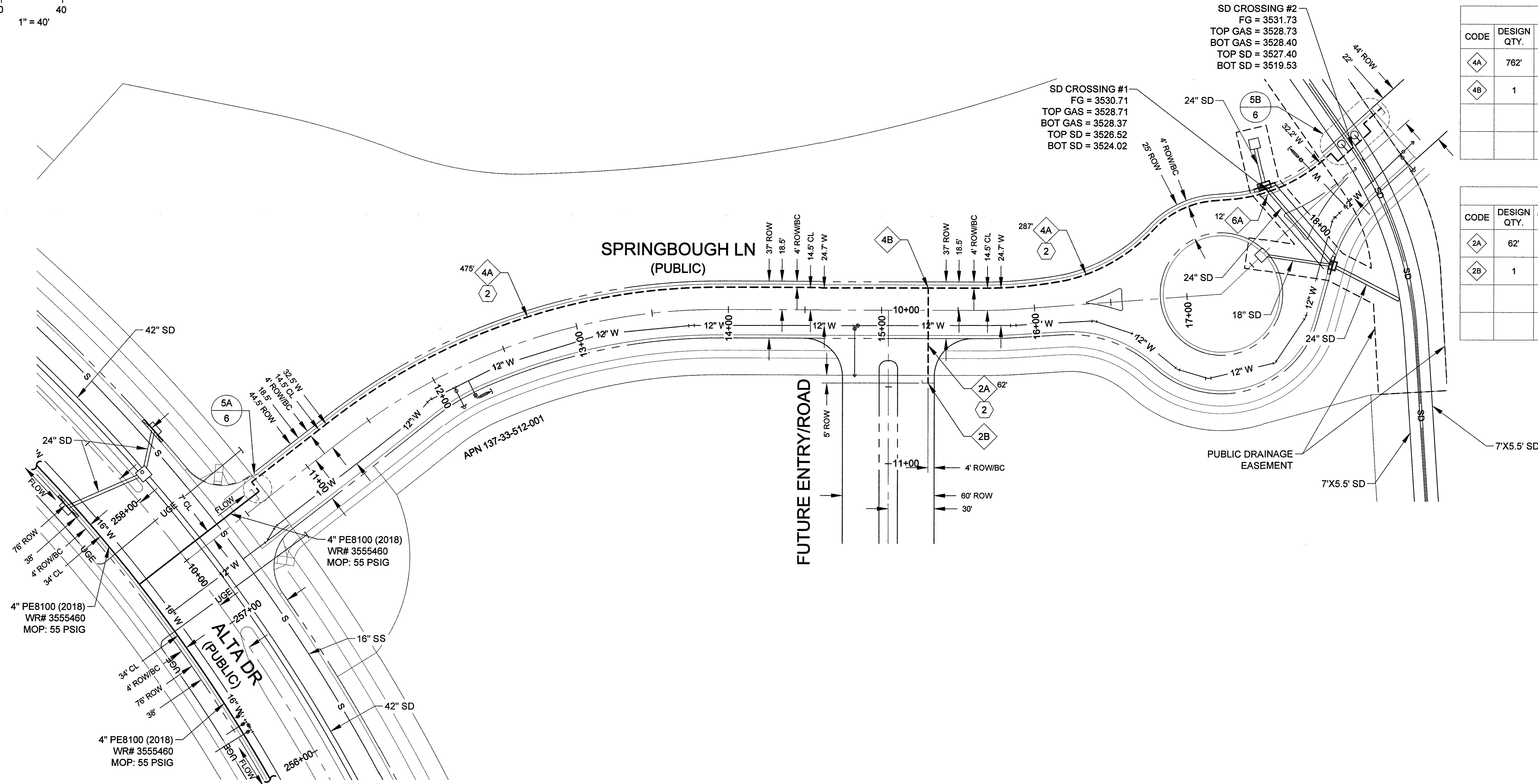
SMMERLIN VILLAGE 24A PARCEL N/O ENTRY

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0 1" = 40'

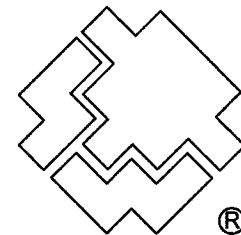


6" DISTRIBUTION MATERIALS LIST						
CODE	DESIGN QTY.	AS-BUILT QTY.	STOCK ID	DESCRIPTION	SEAM	COATING
6A	12'	0'	100-9000	6" PVC SLEEVING	N/A	N/A

4" DISTRIBUTION MATERIALS LIST						
CODE	DESIGN QTY.	AS-BUILT QTY.	STOCK ID	DESCRIPTION	SEAM	COATING
4A	762'	0'	100-5201	PIPE 4" PE 8100 40 FT JOINT	N/A	N/A
4B	1	0	140-5311	TEE 4" X 4" X 2" PE	N/A	N/A

2" DISTRIBUTION MATERIALS LIST						
CODE	DESIGN QTY.	AS-BUILT QTY.	STOCK ID	DESCRIPTION	SEAM	COATING
2A	62'	0'	100-5101	PIPE 2" PE 8100 500 FT COIL	N/A	N/A
2B	1	0	140-3060	CAP, 2" PE	N/A	N/A

CONSTRUCTION NOTES	
2	RTC 503



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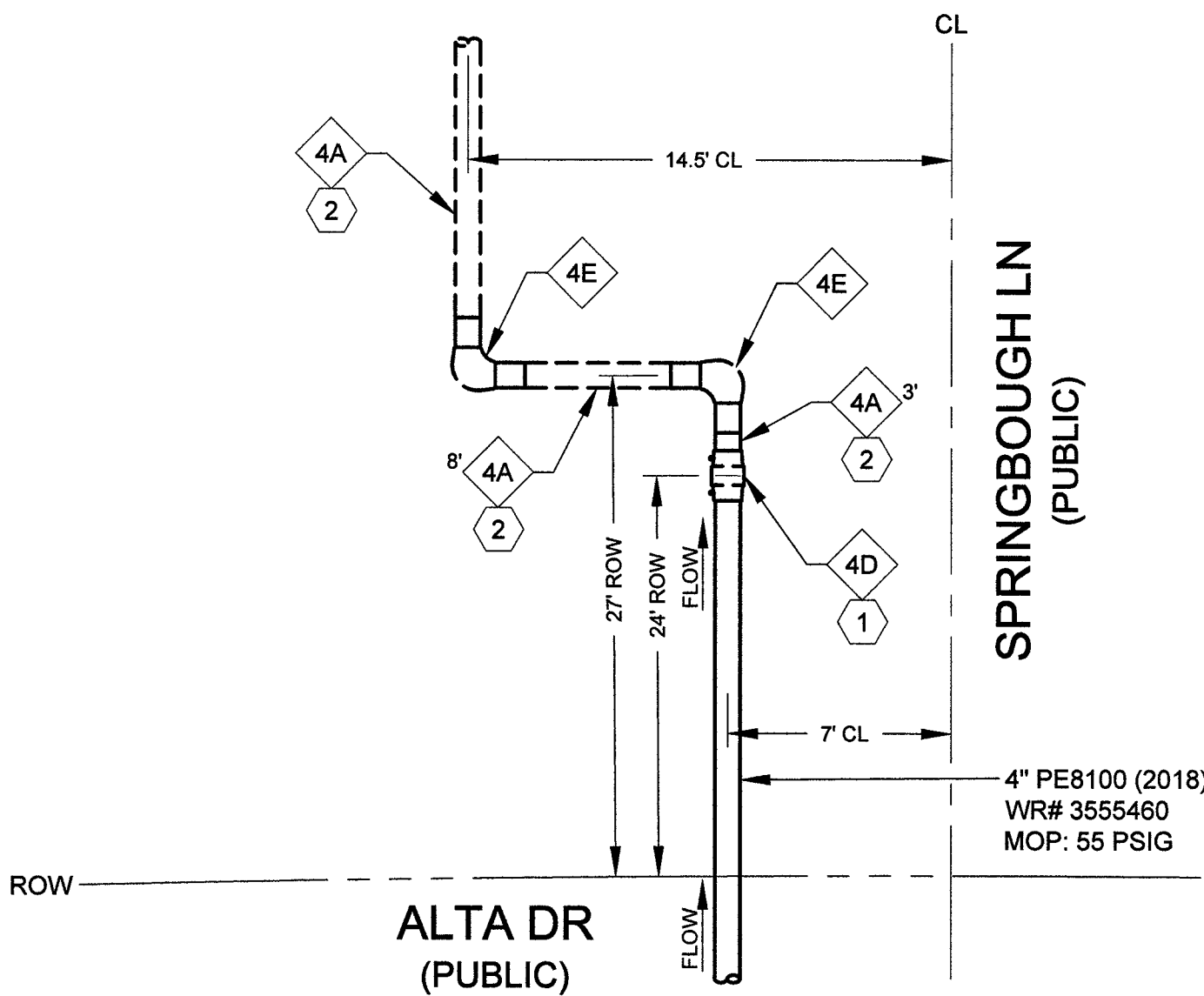
REVISIONS				D_W_VALLEY		JOB TYPE	WR NO.	ENGINEER/TECHNICIAN	ACCOUNT REP.	PHONE: (702) 365-2192
						HP SERVICE ☐	3876289	LEE DEBRUMS	ANDREW CARLSON	PHONE: (702) 370-5067
						DISTRIBUTION ☒		VICTORIA HACKER		PHONE: (702) 791-4518
						FEEDER ☐	RELATED WR NO.S			DATE 07/01/2019
						TRANS. BY DEF ☐	N/A			APPVD. BY BWJ
						TRANS > 20% ☐				
PERMIT INFORMATION				N/A				SMMERLIN VILLAGE 24A PARCEL N/O ENTRY		
CITY OF LAS VEGAS TAX CODE: 02-0200	ISO_21_DIST_323	T20S R59E S33 M.D.M.	X561Y516 X561Y518	SYSTEM MAOP: N/A	SYSTEM MOP: N/A					

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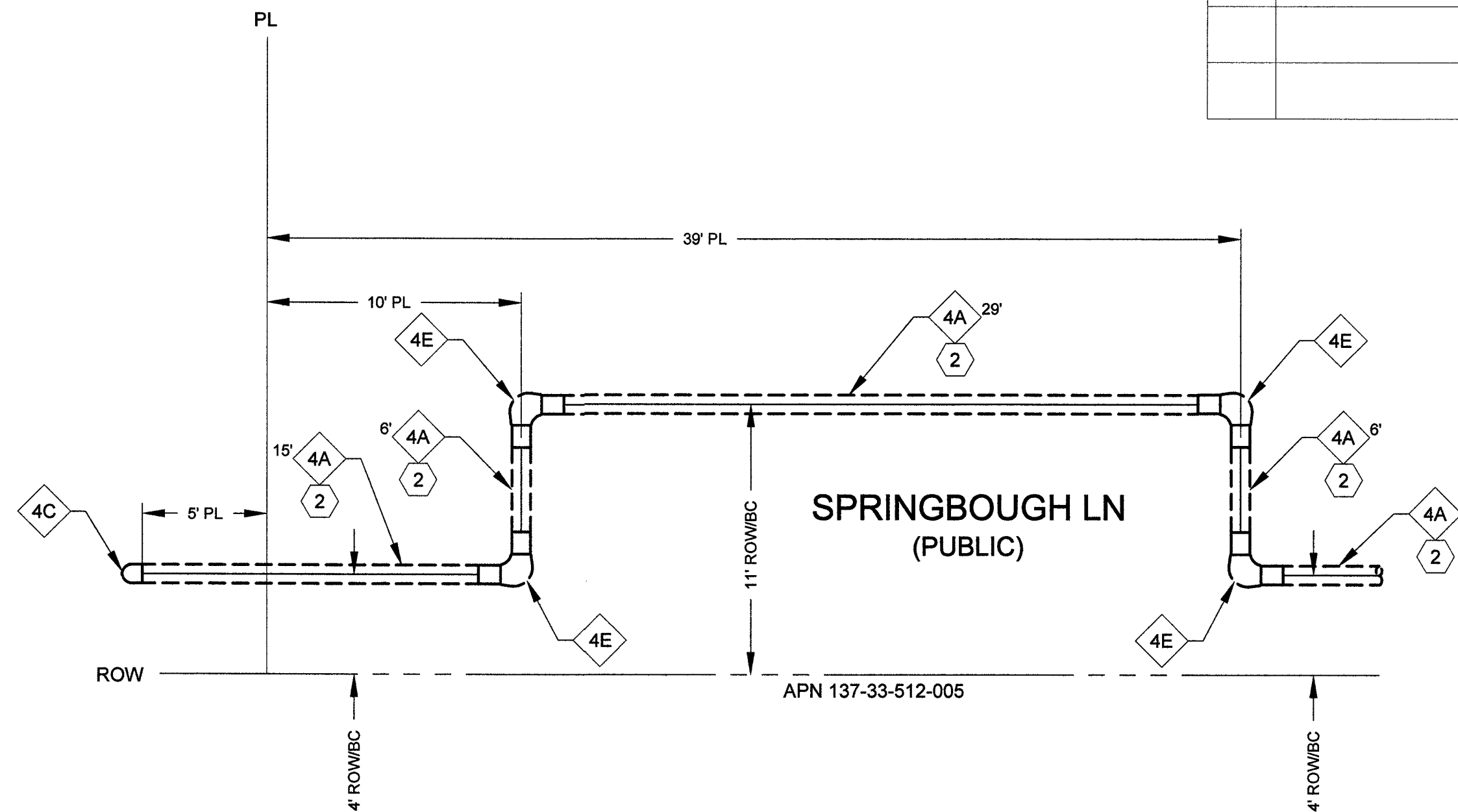
24

4" DISTRIBUTION MATERIALS LIST						
CODE	DESIGN QTY.	AS-BUILT QTY.	STOCK ID	DESCRIPTION	SEAM	COATING
4A	67	0	100-5201	PIPE 4" PE 8100 40 FT JOINT	N/A	N/A
4C	1	0	140-3082	CAP, 4" PE	N/A	N/A
4D	1	0	140-3530	COUPLING PE 4" REPAIR	N/A	N/A
4E	6	0	140-3089	ELBOW, 4" PE, 90 DEGREE	N/A	N/A

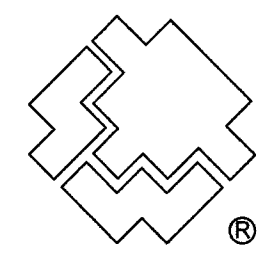
CONSTRUCTION NOTES	
1	TIE NEW 4" PE8100 TO EXISTING 4" PE8100
2	RTC 503



5A
6
DETAIL
N.T.S.



5B
6
DETAIL
N.T.S.



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REVISIONS				D_W_VALLEY		JOB TYPE	WR NO.	ENGINEER/TECHNICIAN	PHONE: (702) 365-2192
						HP SERVICE ☐	3876289	ACCOUNT REP. ANDREW CARLSON	PHONE: (702) 370-5067
						DISTRIBUTION ☒		PROJECT CONTACT VICTORIA HACKER	PHONE: (702) 791-4518
						FEEDER ☐	RELATED WR NO.S	SHEET NO. 6 OF 6	SCALE N.T.S.
						TRANS. BY DEF ☐	N/A	DWN. BY INFINITY	DATE 07/01/2019
						TRANS > 20% ☐		CHKD. BY CS	APPVD. BY BWJ
PERMIT INFORMATION				N/A				SMMERLIN VILLAGE 24A PARCEL N/O ENTRY	
CITY OF LAS VEGAS TAX CODE: 02-0200	ISO_21_DIST_323	T20S R59E S33 M.D.M.	X561Y516 X561Y518	SYSTEM MAOP: N/A	SYSTEM MOP: N/A				

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