

F:\PROJECTS\400412-661\H63991\SUBMITTALS\RECORD DRAWINGS\H63991_GN.DWG
1/31/20

CITY OF LAS VEGAS GENERAL NOTES

- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA", LATEST ISSUE; THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA NEVADA", LATEST REVISED EDITION; THE "SUMMERLIN IMPROVEMENT STANDARDS" FOR WORK IN THE SUMMERLIN AREA; AND OTHER APPLICABLE 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".
- THE EXISTENCE AND LOCATION OF ANY OVERHEAD OR UNDERGROUND UTILITY LINES, PIPES, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A RESEARCH OF THE AVAILABLE RECORDS. EXISTING UTILITIES AS SHOWN FROM CLV PLANS LIBRARY ARE APPROXIMATE AND FOR RECORD PURPOSES. EXISTING UTILITIES ARE LOCATED ON PLANS ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. EXISTING UTILITY SERVICE LATERALS MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, LOCATE ALL UNDERGROUND AND OVERHEAD INTERFERENCE WHICH MAY AFFECT HIS OPERATION DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO SAME. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COST AND LIABILITY IN CONNECTION THEREWITH.
- 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 SATISFACTORILY TO THE CITY ENGINEER OR OWNING UTILITY COMPANY AT THE EXPENSE OF THE CONTRACTOR.
- ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS, ANY REVISIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.
- TYPE V CEMENT SHALL BE USED IN ALL OFF-SITE CONCRETE WORK. CONCRETE TO BE 3000 P.S.I. MINIMUM. MINIMUM 28 DAYS. MIX DESIGN TO BE APPROVED BY THE QUALITY CONTROL DIVISION, PRIOR TO THE USE ON THE PROJECT.
- PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.
- EXPANSION JOINTS REQUIRED, MAXIMUM EVERY 300' IN EXTRUDED-TYPE CURB.
- AC PAVEMENT TO BE 1/2" ABOVE LIP OF ALL GUTTERS AFTER COMPACTION, EXCEPT AT SIDEWALK RAMPS.
- CURB AND GUTTER WITH A GRADE OF LESS THAN FOUR-TENTHS OF ONE PERCENT SHALL BE WATER-TESTED AS SOON AS POSSIBLE AFTER CONSTRUCTION. ANY CURB AND GUTTER FOUND TO BE UNACCEPTABLE TO THE CITY SHALL BE REMOVED AND REPLACED PER USD 216.
- SIDEWALK RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER USD 235, CASE I. EXACT LOCATION OF RAMPS MAY BE ADJUSTED IN THE FIELD BY A CITY PROJECT REPRESENTATIVE.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND FOR INGRESS AND EGRESS TO NEW CONSTRUCTION. THE EXTENT OF TRANSITIONS TO BE AS SHOWN ON PLANS, OR AS DESIGNATED IN THE FIELD BY CITY PROJECT REPRESENTATIVE.
- EXACT LOCATION OF ALL SAWCUT LINES MAY BE DETERMINED IN THE FIELD BY A CITY PROJECT REPRESENTATIVE IF LOCATION ON PLANS IS NOT CLEARLY SHOWN, OR EXISTING PAVEMENT CONDITION REQUIRES RELOCATIONS.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE REPLACED, AND SHALL BE DONE ONLY BY A NEVADA PROFESSIONAL LAND SURVEYOR IN ACCORDANCE WITH THE UNIFORM STANDARD DRAWINGS - CLARK COUNTY AREA. A RECORD-OF-SURVEY FOR REPLACEMENT OF PERMANENT SURVEY MONUMENTS SHALL BE SUBMITTED TO THE CITY ENGINEER FOR APPROVAL PRIOR TO RECORDING. THE RECORD-OF-SURVEY SHALL BE PREPARED IN ACCORDANCE WITH NEVADA REVISED STATUTES 625.350.
- UTILITY COMPANY METER BOXES, MANHOLE LIDS, VALVE COVERS, ETC., SHALL BE LOCATED OUT OF DRIVEWAYS, DRIVEWAY APRONS, FLOWLINES, AND CROSS GUTTERS UNLESS WRITTEN APPROVAL IS GRANTED BY THE AFFECTED UTILITY COMPANY AND THE CITY ENGINEER.
- 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 CLV BUILDING DEPARTMENT.
- ASPHALT MIX DESIGN MUST BE SUBMITTED AND APPROVED BY THE CITY ENGINEER PRIOR TO THE PLACEMENT OF ASPHALT WITHIN CITY RIGHTS OF WAY.
- CONTRACTOR SHALL ADJUST ALL NEW AND EXISTING INLETS, VALVE BOXES, MANHOLE RIMS, SEWER CLEANOUTS, ETC., TO FINISH GRADE AS APPLICABLE WHETHER OR NOT THEY ARE SHOWN ON THE PLANS.
- 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.
- WHEN INSTALLING UNDERGROUND FACILITIES THAT REQUIRE UNDERGROUND LOCATING DEVICES SUCH AS MARKER BALLS, LOCATING RIBBON, ETC, THE CONTRACTOR SHALL PROVIDE WRITTEN DOCUMENTATION TO THE ENGINEER CERTIFYING THAT ALL DEVICES HAVE BEEN PLACED AND VERIFIED TO BE IN GOOD WORKING CONDITION PRIOR TO THE CONSTRUCTION OF ANY ROAD BASE.
- NEWLY INSTALLED AND EXISTING UTILITIES EXPOSED DURING CONSTRUCTION SHALL BE SURVEYED AND DOCUMENTED PER SECTION 622 OF THE SPECIAL PROVISIONS.
- 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.
- A SEPARATE BORING PERMIT IS REQUIRED FOR ALL BORING ACTIVITIES.

REVISED JULY 23, 2015
(CPM VERSION)

RECORD DRAWINGS
RECORD DRAWINGS COMPLETED: JANUARY 2020
BY GCW, INC.
PROJECT FINAL COMPLETION: OCTOBER 9, 2019
CONTRACTOR: LAS VEGAS PAVING CORP.
CONSTRUCTION MANAGER: DIVERSIFIED CONSULTING SERVICES
THESE DRAWINGS HAVE BEEN ALTERED TO INDICATE AS-BUILT INFORMATION AS PROVIDED BY THE CONSTRUCTION CONTRACTOR. THIS DATA MAY NOT REFLECT ACTUAL FIELD CONDITIONS. ALL DATA SHOULD BE CONFIRMED PRIOR TO INCLUSION IN SUBSEQUENT PLANS.

ABBREVIATIONS

@	AT	L	LENGTH
AB	ABANDONED	LF	LINEAL FOOT, LINEAR FEET
AC	ASPHALTIC CONCRETE	LT	LEFT
ACP	ASBESTOS CEMENT PIPE	LVWD	LAS VEGAS VALLEY WATER DISTRICT
AEP	AUTHORIZATION TO ENTER PROPERTY	MH	MANHOLE
APPROX	APPROXIMATE	MCLP	MULTI-LAYER COMPOSITE PIPE
AVR	AIR VALVE ASSEMBLY	SV	SPRINKLER VALVE
B/C, BC	BACK OF CURB	NDOT	NEVADA DEPT. OF TRANSPORTATION
BOR	BACK OF CURB RADIUS	NTS	NOT TO SCALE
BM	BENCHMARK	NVE	NV ENERGY
BTM	BOTTOM	CHP	OVERHEAD POWER LINE
BR	BACK OF RAMP	OBU	OVERHEAD UTILITIES
C & G	CURB AND GUTTER	PB	PULL BOX
CALCD	CALCULATED	PC	POINT OF CURVATURE
CATV, TV	CABLE TELEVISION	P.C.P.	PROTECT IN PLACE
CC	CLARK COUNTY	PP	POWER POLE
CCPW	CLARK COUNTY PUBLIC WORKS	PRC	POINT OF REVERSE CURVE
CIPP	CURED-IN-PLACE PIPE	PT	POINT OF TANGENCY
CL	CENTERLINE	PL	PROPERTY LINE
CLSM	CONTROLLED LOW STRENGTH MATERIAL	R	RT RIGHT
CLV	CITY OF LAS VEGAS	R.R.W.	RIGHT OF WAY
CMP	CORRUGATED METAL PIPE	SCOP	STEEL CYLINDER CONCRETE PIPE
CONC	CONCRETE	SD	STORM DRAIN
COND	CONDUCTOR	SF	SQUARE FOOT
OPM	CAPITAL PROJECT MANAGEMENT	SP	SPECIAL PROVISIONS
D, DIA	DIAMETER	SS	SANITARY SEWER
DCWSCS	DESIGN & CONSTRUCTION STDS FOR WASTEWATER COLLECTION SYSTEMS	STA	STATION
DG	DECOMPOSED GRANITE	STD	STANDARD
DIP	DUCTILE IRON PIPE	STL	STREET LIGHT
D/W	DRIVEWAY	SV	SPRINKLER VALVE
DWG	DRAWING	SW	SIDEWALK
ED	END OF CURB RETURN (AT B/C)	SWG	SOUTHWEST GAS
ELEC	ELECTRIC	SY	SQUARE YARD
ELEV	ELEVATION	T, TEL	TELEPHONE
EOP, EP	EDGE OF PAVEMENT	TCE	TOP OF CURB
ESEM	EASEMENT	TEMP	TEMP. CONSTRUCTION EASEMENT
EX	EXISTING	TRANS.	TRANSITION
FAST	FREEWAY & ARTERIAL SYSTEM OF TRANSPORTATION (INTERCONNECT)	TRC	TOP OF RAMP CURB
FC	FACE OF CURB	TS	TRAFFIC SIGNAL
FD	FOUND	TYP	TYPICAL
FG	FINISHED GRADE	UDACS	UNIFORM DESIGN & CONSTRUCTION STDS FOR POTABLE WATER DISTRIBUTION SYSTEMS
FI, HYD	FOOT, FEET	USD	UNIFORM STANDARD DRAWING
FM	GAS	USS	UNIFORM STD SPECIFICATIONS
GM	GAS METER	W	WATER LINE
GV	GAS VALVE	WC	WHEEL CHAIR
GW	GUY WIRE	WM	WATER METER
HP	HIGH PRESSURE	WV	WATER VALVE
INT	INTERSECTION	WTH	WITH
IRR	IRRIGATION	Δ	INCLUDED DELTA ANGLE

RTC NOTES

- THE CONTRACTOR SHALL NOT BE ALLOWED TO CLOSE MORE THAN ONE CONSECUTIVE BUS STOP ON THE SAME SIDE OF THE STREET. TEMPORARY CLOSURES SHALL BE PWD (PERSONS WITH DISABILITY) ACCESSIBLE BEFORE ANY BUS STOP CAN BE CLOSED. THE CONTRACTOR SHALL NOTIFY CARL SCARBROUGH AT (702) 676-1608 OR ERIC TRAASDAHL AT (702) 676-1633, AT LEAST SEVEN WORKING DAYS IN ADVANCE.
- THE CONTRACTOR SHALL SUBMIT A BUS STOP CLOSURES SCHEDULE WITH THE TRAFFIC CONTROL PLAN. THE BUS STOP CLOSURE SCHEDULE SHALL IDENTIFY SPECIFIC DURATIONS AND TIMES OF THE DAY FOR ALL PROPOSED BUS STOP CLOSURES. BUS STOP CLOSURES ARE NOT TO EXCEED TWO CONSECUTIVE STOPS AT ONE TIME, OR MORE THAN 1,000 FEET AT A TIME. PERSONS WITH DISABILITIES SHALL HAVE ACCESS TO BUS STOPS. THE CONTRACTOR SHALL PROVIDE A 100 FOOT LONG BY 10 FEET WIDE GRAVELED TURN OUT AT TEMPORARY BUS STOPS.

REVISED FEBRUARY 14, 2013

BASIS OF BEARINGS

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

DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0

ZONE: LAS VEGAS ZONE
STANDARD PARALLEL AND GRID ORIGIN: 36°10'50" N
CENTRAL MERIDIAN: 114°58'00" W
FALSE NORTHINGS: 200,000 METERS
FALSE EASTING: 100,000 METERS
STANDARD PARALLEL SCALE: 1.0001
LINEAR UNIT: US SURVEY FOOT (SFT)

BENCHMARK

CITY OF LAS VEGAS VERTICAL CONTROL POINT 5LV90 32N4, BEING A RIVET IN CONCRETE PAD (ELEC.) 150± SE OF EL. CAPTAN & ANN ROAD

ELEVATION: 2505.45 (FEET)
763.66 (METERS)

CITY OF LAS VEGAS BENCHMARKS - 2008 ADJUSTMENT BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAV88).

CITY OF LAS VEGAS GRADING NOTES

- 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.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL NECESSARY CUTS AND FILLS WITHIN THE LIMITS OF THIS PROJECT AND THE RELATED OFF-SITE WORK, SO AS TO GENERATE THE DESIRED SUBGRADE, FINISH GRADES AND SLOPES SHOWN.
- 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.
- 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.
- ALL CUT AND FILL SLOPES SHALL BE PROTECTED UNTIL EFFECTIVE EROSION CONTROL HAS BEEN ESTABLISHED.
- 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.
- 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.
- IN THE EVENT THAT ANY TEMPORARY CONSTRUCTION ITEM IS REQUIRED THAT IS NOT SHOWN ON THESE DRAWINGS, SUCH ITEM SHALL BE PROVIDED, AS DIRECTED BY THE CITY ENGINEER, AT NO EXPENSE TO THE CITY OF LAS VEGAS. TEMPORARY CONSTRUCTION INCLUDES DITCHES, BERMS, ROAD SIGNS AND BARRICADES, ETC.

REVISED APRIL 13, 2015 (CPM VERSION)

CITY OF LAS VEGAS TRAFFIC NOTES

- ALL CONSTRUCTION SIGNING, BARRICADING, AND TRAFFIC DELINEATION SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION.
- THE STREET SIGN CONTRACTOR SHALL OBTAIN STREET NAMES AND BLOCK NUMBERING FROM THE PLANNING DEPARTMENT PRIOR TO CONSTRUCTION.
- BEFORE ANY WORK IS STARTED IN THE RIGHT-OF-WAY, THE CONTRACTOR SHALL INSTALL ALL ADVANCE WARNING SIGNS FOR THE CONSTRUCTION ZONE. THE CONTRACTOR SHALL INSTALL TEMPORARY STOP SIGNS AT ALL NEW STREET ENCROACHMENTS INTO EXISTING CITY STREETS WHERE WARRANTED IMMEDIATELY AFTER FIRST GRADING WORK IS ACCOMPLISHED, AND SHALL MAINTAIN SAID SIGNS UNTIL PERMANENT SIGNS ARE INSTALLED.
- 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 BE REQUIRED TO PROVIDE A QUALIFIED "CROSSING GUARD". THE GUARD SHALL BE PRESENT FOR THE FULL DURATION OF TIME THAT CHILDREN ARE LIKELY TO BE PRESENT.
- IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY OBSTRUCTION, TEMPORARY REMOVAL OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKINGS, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS TO THE SATISFACTION OF THE CITY TRAFFIC ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL PERMANENT SIGNS SHOWN ON THE PLANS. ALL NEW TRAFFIC SIGNS SHALL UTILIZE TYPE XI RETROREFLECTIVE SHEETING IN ACCORDANCE WITH CAAUSS 827 AND 716 AND SHALL 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 STANDARD SIZE UNLESS OTHERWISE SPECIFIED ON THE PLANS. ALL SIGN POSTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT CITY STANDARDS.
- 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.
- ALL PERMANENT TRAFFIC CONTROL DEVICES CALLED FOR HEREON SHALL BE IN PLACE AND IN FINAL POSITION PRIOR TO ALLOWING ANY PUBLIC TRAFFIC ONTO THE PORTIONS OF THE ROAD(S) BEING IMPROVED HERE UNDER, REGARDLESS OF THE STATUS OF COMPLETION OF PAVING OR OTHER OFF-SITE IMPROVEMENTS CALLED FOR BY THESE PLANS.
- STREET SIGNS AND STOP SIGNS SHALL BE INSTALLED PER CITY STANDARD SPECIFICATIONS FOR PLACEMENT OF STREET NAME SIGNS.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAFFIC CONTROL DEVICES AND FLAGGERS TO INSURE THE SAFETY OF THE PUBLIC IN OR AROUND THE WORK AREA. THE CONTRACTOR SHALL HAVE A CERTIFIED ATSSA TRAFFIC CONTROL TECHNICIAN OR IMSA WORK ZONE SAFETY SPECIALIST SET UP, MAINTAIN AND/OR REMOVE ALL TRAFFIC CONTROL DEVICES IN THE CITY OF LAS VEGAS RIGHT OF WAY.
- WORK IN PUBLIC STREETS, ONCE BEGUN, SHALL BE EXPEDITED TO COMPLETION SO AS TO PROVIDE MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND TO THE TRAVELING PUBLIC.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING RTC TRANSIT 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.
- GUARDS SHALL BE OBTAINED BY CONTACTING THE METROPOLITAN POLICE DEPARTMENT SPECIAL EVENTS UNIT (PHONE # 828-3442) WHO WILL PROVIDE OFFICERS PROPERLY TRAINED IN TRAFFIC CONTROL. FEES FOR THE USE OF THESE OFFICERS SHALL BE SET BY METRO AND WILL BE PAID BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR ALL ARRANGEMENTS WITH METRO.
- ANY WORK WITHIN 300' OF A SIGNALIZED INTERSECTION WILL BE NIGHT WORK, UNLESS DIRECTED BY THE CITY OF LAS VEGAS TRAFFIC ENGINEER.
- THE CONTRACTOR SHALL CONTACT THE TRAFFIC ENGINEERING DIVISION (TRANSPORTATION SECTION) THROUGH THE PROJECTS OFFSITE INSPECTOR PRIOR TO INITIATING PAVING TO RECEIVE DIRECTION FOR ANY PERMANENT OR TEMPORARY MODIFICATIONS TO THE APPROVED DRAWINGS REGARDING FINAL PAVEMENT TRANSITIONS, MARKINGS AND SIGNING THAT ARE REQUIRED TO MATCH ADJACENT ROADWAY SEGMENTS. THE CONTRACTOR SHALL PROVIDE A DRAWING FOR APPROVAL BY THE TRAFFIC ENGINEERING DIVISION DEPICTING ANY ADJUSTMENTS TO THE FINAL PAVEMENT MARKINGS AND SIGNAGE, WHICH MAY INCLUDE OMITTING, ADDING OR MODIFYING PAVEMENT MARKINGS AND TRAFFIC CONTROL SIGNS SUCH THAT ADEQUATE TRANSITIONS AND LANE TERMINATIONS BETWEEN ADJACENT ROADWAY SEGMENTS ARE CONSTRUCTED.

REVISED JULY 13, 2013

CITY OF LAS VEGAS SEWER NOTES

- 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 SPECIFICATIONS FOR PUBLIC WORKS 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.
- 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.
- CHISEL "S" OR "G" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.
- POLYVINYL (PVC) SEWER PIPE SHALL MEET ASTM D-3034 SDR 35 SPECIFICATIONS, INSTALLED WITH SAND BEDDING AND BACKFILL OF TYPE II AGGREGATE BASE.
- ALL MANHOLES PAVED IN STREETS EIGHTY (80') FOOT RW AND LARGER SHALL HAVE CONCRETE COLLARS. STREETS LESS THAN EIGHTY (80') FOOT RW WILL REQUIRE RETROFIT IF PAVING DOES NOT CONFORM TO CITY STANDARDS AT THE MANHOLE.
- TEE 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" S SHALL BE USED ON LINES TWELVE INCHES (12") OR ABOVE.
- WATER MAINS SHALL BE PROTECTED IN ACCORDANCE WITH LVVWD STANDARDS WHENEVER A SEWER MAIN CROSSES OVER A WATER MAIN OR THE SEWER IS LESS THAN EIGHTEEN INCH (18") UNDER A WATER MAIN.
- 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.
- 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.
- INSTALLATION OF CURVED SEWERS REQUIRES THE USE OF C-900 PVC PIPE WHICH ALLOWS FOR PIPE DEFLECTION AT THE JOINTS.

REVISED JANUARY 13, 2015

LVVWD STANDARD NOTES

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|-----------------|--------|
| LVVWD PROJECT # | 125005 |
|-----------------|--------|
- 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.
 - 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.
 - 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.
 - A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVVWD.
 - ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING WITH LVVWD APPROVED SERVICE SADDLES.
 - ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
 - ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY AND CURB GUTTERS.
 - ALL WATER AND STORM DRAIN OR SANITARY SEWER CROSSINGS SHALL CONFORM TO SECTION 2.22 OF THE 2010 EDITION OF THE UDACS.
 - ALL WATER FACILITIES SHALL BE FILLED, DISINFECTED, PRESSURE TESTED, FLUSHED, FILLED AND AN ACCEPTABLE WATER SAMPLE OBTAINED, PRIOR TO CONNECTION TO THE LVVWD DISTRIBUTION SYSTEM.
 - 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.
 - 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.
 - ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST BE AS LISTED ON THE LVVWD PRE-APPROVED MATERIALS AND MANUFACTURER'S LISTING FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS.
 - TELEPHONE "CALL BEFORE YOU DIG" AT "811" OR 1-800-227-2600
 - THE INSTALLATION OF LAS VEGAS VALLEY WATER DISTRICT (LVVWD) MUNICIPAL WATER FACILITIES WITHIN ALL STREETS IS ASSUMED TO BE IN COMPLIANCE WITH THE UNIFORM STANDARDS, INCLUDING THE PLACEMENT OF ASPHALT PAVING STREET SURFACES. ANY REPAIR WORK DONE BY THE LVVWD TO THE MUNICIPAL FACILITIES WILL INCLUDE THE PLACEMENT OF ANY APPROPRIATELY SIZED ASPHALT REPAIR PATCH ON THE STREET SURFACE.

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

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.

APPROVED FOR CONSTRUCTION		
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES		
PROJECT No.	125005	FIRST APPROVED DATE: 11/21/17

CITY OF LAS VEGAS STREET LIGHT NOTES

- ALL STREET LIGHTING INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE STREET LIGHTING PLANS, THE "UNIFORM STANDARD SPECIFICATION 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.
- NO DEVIATION OF STREET LIGHT, PULL BOX, CONDUITS (ETC.) LOCATIONS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL OF THE TRAFFIC AND CITY ENGINEER. ANY DEVIATION FROM THE PLAN LOCATION WILL REQUIRE COMPLIANCE WITH SECTION 623 OF THE USS.
- ALL EXISTING STREET LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION IN ACCORDANCE WITH SECTION 623 G.03.01 OF THE USS.
- 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.
- ANY STRUCTURE SUCH AS BLOCK WALLS, CHAIN LINK FENCES, RETAINING WALLS, ETC., SHALL LEAVE A MINIMUM CLEARANCE IN COMPLIANCE WITH USD NO. 320A WHEN POLES IS INSTALLED BEHIND SIDEWALK, AND SHALL AT NO TIME COMPLETELY ENCLOSE THE STREET LIGHTING POLE.
- 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.
- SERVICE POINTS 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.
- THE CONTRACTOR SHALL FURNISH COMPLETE CONDUIT, WIRE, ETC. FROM SERVICE TO TRANSFORMERS AND CONTROL SYSTEMS IF REQUIRED ON THE PLANS OR IN THE SPECIAL PROVISIONS.
- ALL STREET LIGHTING AND TRAFFIC SIGNAL EQUIPMENT REMOVED AND / OR DESIGNATED TO BE SALVAGED SHALL BE DELIVERED BY THE CONTRACTOR TO THE APPROPRIATE CLV SERVICE YARD WITH A MEANS TO UNLOAD. A MINIMUM 24-HOUR NOTICE OF DELIVERY IS REQUIRED. CALL 229-6331 TO SET UP DELIVERY TIME AND LOCATION. REPAIR OF ANY DAMAGE TO EQUIPMENT DURING THIS PROCESS WILL BE THE CONTRACTOR'S RESPONSIBILITY, AT NO ADDITIONAL COST TO THE CITY.

REVISED JUNE 28, 2016 (CPM VERSION)

LEGEND

	CENTERLINE		STORM DRAIN INLET
	RIGHT OF WAY LINE		STORM DRAIN MH
	PROPERTY LINE		STREET LIGHT
	AUTHORIZATION TO ENTER PROPERTY (AEP)		STREET LIGHT PB
	EDGE OF PAVEMENT		TELEPHONE MH
	PATCH / SAWCUT LINE		TELEPHONE PB
	FUTURE FACILITIES		TRAFFIC SIGNAL POLE
	AREA LIGHT		TRAFFIC SIGNAL PB
	POTHOLE LOCATION		TV PULLBOX
	ELEC. VAULT/CABINET		UTILITY POLE
	ELECTRIC MANHOLE		UTILITY POLE GUY WIRE
	ELECTRIC METER		UTILITY VAULT
	FIRE HYDRANT		WATER VAULT/CABINET
	FOUND MONUMENT		WATER MANHOLE
	GAS METER		WATER METER
	GAS VALVE		WATER VALVE
	IRR. CONTROLLER		
	IRR. VALVE		
	LOOP DETECTOR		
	SANITARY SEWER MH		
	SET MONUMENT		
	SIDEWALK RAMP		
	SIGN		

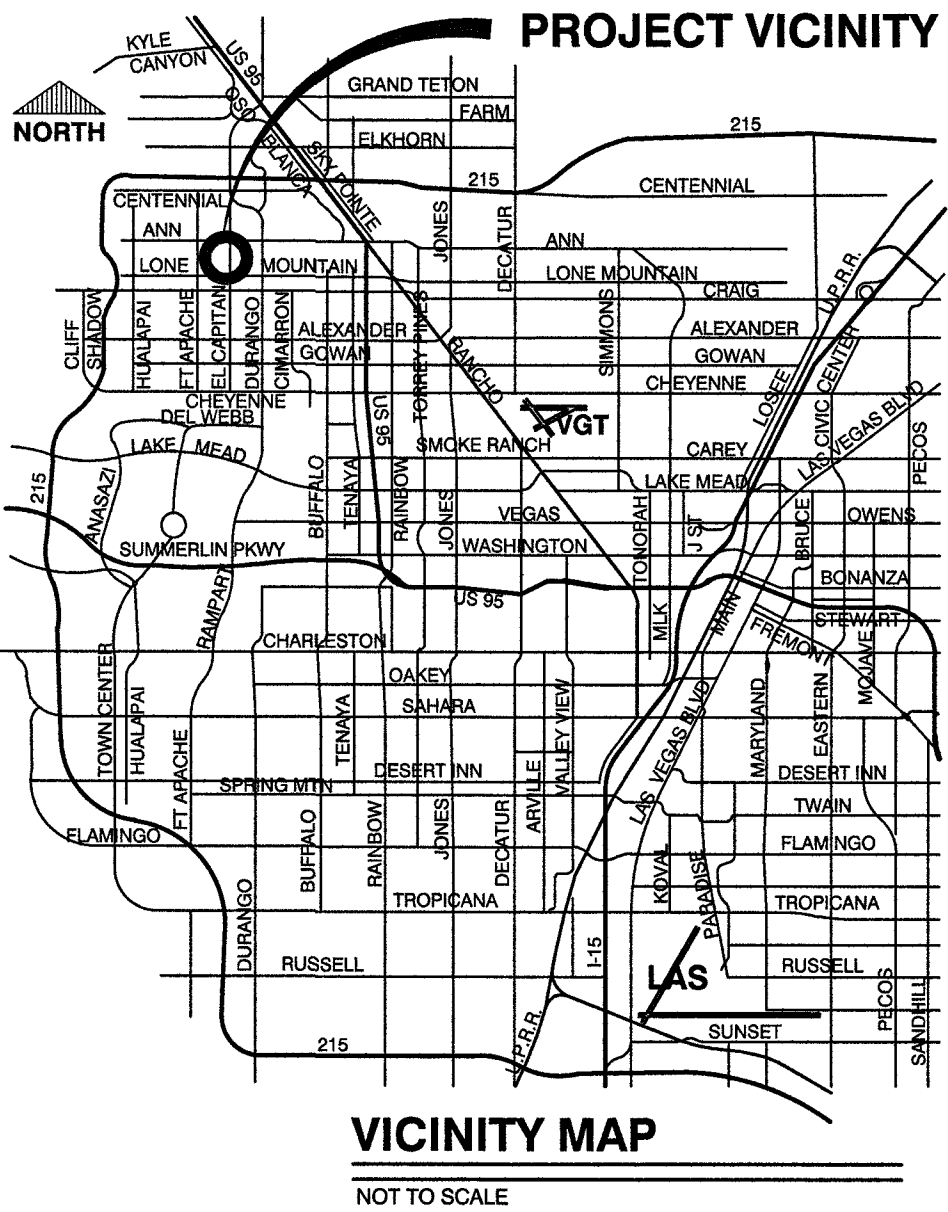
ALIGNMENT ABBREVIATIONS

"ECW" EL CAPITAN WAY

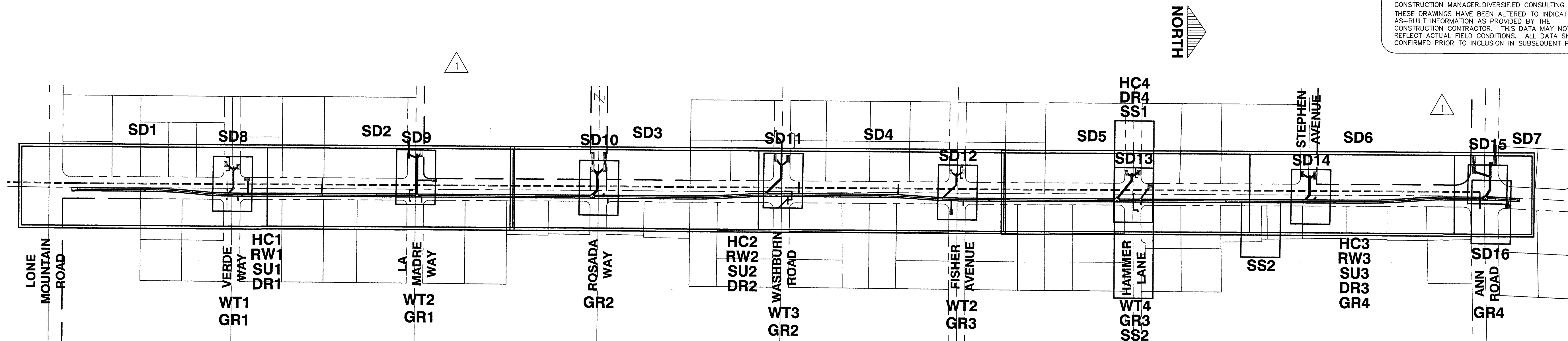
SOUTHWEST GAS CONSTRUCTION NOTES

- IN THE EVENT OF NATURAL GAS EMERGENCIES CALL 911 AND 1-877-860-6020.
- THERE SHALL BE A MINIMUM HORIZONTAL AND VERTICAL CLEARANCE OF 12-INCHES BETWEEN NATURAL GAS FACILITIES AND ANY UNDERGROUND FACILITIES AND/OR STRUCTURES, INCLUDING BUT NOT LIMITED TO WATER, SEWER, STORM DRAIN, COMMUNICATIONS, AND ELECTRIC.
- FOR VALVE ADJUSTMENT CONTACT 702-688-6107 48 HOURS PRIOR TO CONSTRUCTION.
- IN THE EVENT OF A NATURAL GAS CONFLICT WITH PROPOSED UTILITIES AND/OR STRUCTURES CONTACT 702-365-2089.
- PLEASE COORDINATE ALL SOUTHWEST GAS RELOCATIONS CONCURRENTLY WITH 4-6 WEEKS ADVANCED NOTICE. CONTACT MATTHEW PEDRAZA AT 702-365-2008.

CALL BEFORE CONSTRUCTION		
BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
	F.A.S.T.	702-432-5300
BEFORE YOU UNDERGROUND	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929



PREPARED BY	DESIGNED BY: RKB	CHECKED BY: SJ
BID# 17-63091	DRAWN BY: RKB	
DATE: 11/14/17	SUBMITTAL STAGE: 100% - FINAL	
RECORD DRAWINGS		
COVER SHEET SEALED 11/14/2017		
ENGINEER OF RECORD: STEPHEN M. JONES		
P.E. No. 19638		
SHEET		
GN1		
DRAWING NO. 327V294		
2 OF 52		



KEY MAP
SCALE: 1"=200'

SHEET INDEX

1	CV	COVER SHEET
2	GN1	NOTES, LEGEND AND VICINITY MAP
3	GN2	INDEX AND KEY MAP
4		RECORD OF SURVEY
5		RECORD OF SURVEY
6	HC1	HORIZONTAL CONTROL PLAN "ECW" 9+00.00 TO 27+00.00
7	HC2	HORIZONTAL CONTROL PLAN "ECW" 27+00.00 TO 45+00.00
8	HC3	HORIZONTAL CONTROL PLAN "ECW" 45+00.00 TO 64+50.00
9	HC4	HORIZONTAL CONTROL PLAN HAMMER LANE
10	RW1	RIGHT-OF-WAY PLAN "ECW" 9+00.00 TO 27+00.00
11	RW2	RIGHT-OF-WAY PLAN "ECW" 27+00.00 TO 45+00.00
12	RW3	RIGHT-OF-WAY PLAN "ECW" 45+00.00 TO 64+50.00
13	RW4	RIGHT-OF-WAY PLAN EASEMENT INFORMATION
14	DR1	DEMOLITION/REMOVAL PLAN "ECW" 9+00.00 TO 27+00.00
15	DR2	DEMOLITION/REMOVAL PLAN "ECW" 27+00.00 TO 45+00.00
16	DR3	DEMOLITION/REMOVAL PLAN "ECW" 45+00.00 TO 64+50.00
17	DR4	DEMOLITION/REMOVAL PLAN HAMMER LANE
18	GR1	GRADING PLAN VERDE WAY AND LA MADRE WAY
19	GR2	GRADING PLAN ROSADA WAY AND WASHBURN ROAD
20	GR3	GRADING PLAN FISHER AVENUE AND HAMMER LANE
21	GR4	GRADING PLAN STEPHEN AVENUE AND ANN ROAD
22	DT1	DETAIL SHEET
23	SD1	PLAN AND PROFILE "ECW" 9+00.00 TO 18+00.00
24	SD2	PLAN AND PROFILE "ECW" 18+00.00 TO 27+00.00
25	SD3	PLAN AND PROFILE "ECW" 27+00.00 TO 36+00.00
26	SD4	PLAN AND PROFILE "ECW" 36+00.00 TO 45+00.00
27	SD5	PLAN AND PROFILE "ECW" 45+00.00 TO 54+00.00
28	SD6	PLAN AND PROFILE "ECW" 54+00.00 TO 61+50.00
29	SD7	PLAN AND PROFILE "ECW" 61+50.00 TO 65+00.00
30	SD8	LATERAL PROFILES VERDE WAY
31	SD9	LATERAL PROFILES LA MADRE WAY
32	SD10	LATERAL PROFILES ROSADA WAY
33	SD11	LATERAL PROFILES WASHBURN ROAD
34	SD12	LATERAL PROFILES FISHER AVENUE
35	SD13	LATERAL PROFILES HAMMER LANE
36	SD14	LATERAL PROFILES STEPHEN AVENUE
37	SD15	LATERAL PROFILES ANN ROAD - 1
38	SD16	LATERAL PROFILES ANN ROAD - 2
39	SD17	LATERAL PROFILES EL CAPITAN WAY - 1
40	SD18	LATERAL PROFILES EL CAPITAN WAY - 2
41	SS1	PLAN AND PROFILE HAMMER LANE SEWER RELOCATION
42	SS2	PLAN AND PROFILE HAMMER LANE SEWER RELOCATION AND ABBEY RIDGE AVENUE SEWER RELOCATION
43	WT1	WATER PLAN RELOCATION VERDE WAY
44	WT2	WATER PLAN RELOCATION LA MADRE ROAD AND FISHER AVENUE
45	WT3	WATER PLAN RELOCATION WASHBURN ROAD
46	WT4	WATER PLAN RELOCATION HAMMER LANE
47	ST1	GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS
48	ST2	10'X8' RCB TO 12'X5' RCB TRANSITION STRUCTURE
49	ST3	JUNCTION STRUCTURE #1
50	ST4	JUNCTION STRUCTURE #2
51	ST5	JUNCTION STRUCTURE #3, #4, & #5
52	ST6	SPECIAL DROP INLET

RECORD DRAWINGS
RECORD DRAWINGS COMPLETED: JANUARY 2020
BY GCW, INC.
PROJECT FINAL COMPLETION: OCTOBER 9, 2019
CONTRACTOR: LAS VEGAS PAVING CORP.
CONSTRUCTION MANAGER: DIVERSIFIED CONSULTING SERVICES
THESE DRAWINGS HAVE BEEN ALTERED TO INDICATE
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CONSTRUCTION CONTRACTOR. THIS DATA MAY NOT
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CONFIRMED PRIOR TO INCLUSION IN SUBSEQUENT PLANS.

APPROVED FOR CONSTRUCTION
PREVIOUSLY SIGNED BY MIKE DISHARI ON 11/21/17
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT No. 125005 FIRST APPROVED DATE: 11/21/17

PREPARED FOR
CITY OF LAS VEGAS

BID# 17-63891
DESIGNED BY: RKB
DRAWN BY: RKB
CHECKED BY: SJ
DATE: 11/14/17
SUBMITTAL STAGE: 100% - FINAL

TITLE
GOWAN NORTH - EL CAPITAN BRANCH
LONE MOUNTAIN ROAD TO ANN ROAD

SHEET
INDEX AND KEY MAP

RECORD
DRAWINGS

COVER SHEET SEALED
11/14/2017

ENGINEER OF RECORD:
STEPHEN M. JONES
P.E. No. 19638

SHEET

GN2

3 OF 52

DRAWING NO.
327V294

1555 S. RAINBOW BLVD.
SUITE 100
LAS VEGAS, NV 89146
T: 702.804.2200
F: 702.804.2299
gcwengineering.com

PREPARED BY

GCW

ENGINEERS' SURVEYORS

NO. DATE

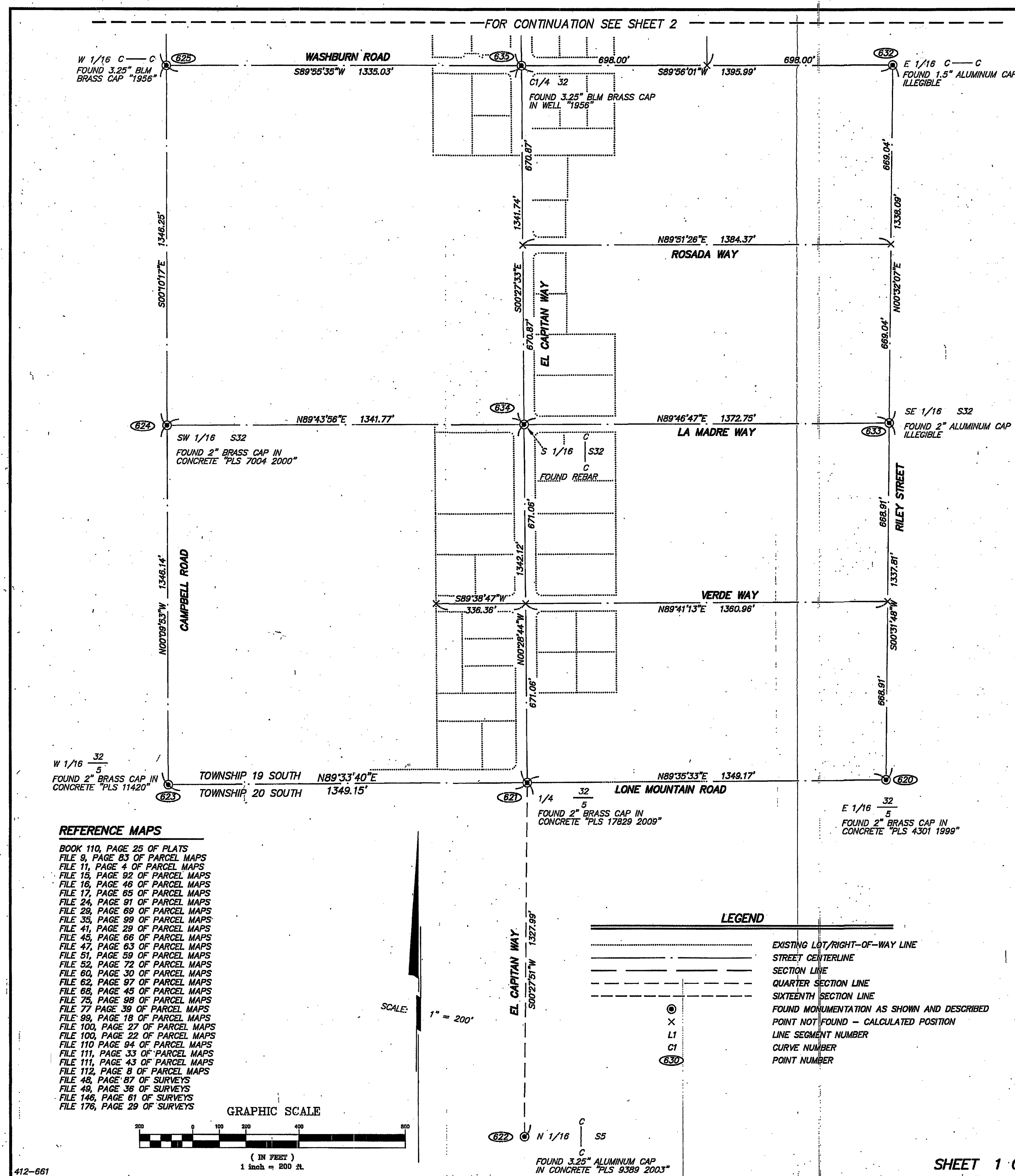
8/21/18

NO. DATE

8/21/18

NO. DATE

8/21/18

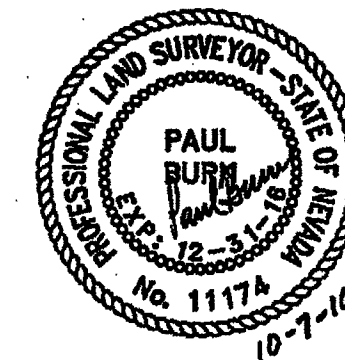


SURVEYOR'S CERTIFICATE

I, PAUL BURN, A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF NEVADA, AS AGENT FOR GCW, INC., CERTIFY THAT:

1. THIS SURVEY REPRESENTS THE RESULTS OF A SURVEY CONDUCTED UNDER MY SUPERVISION AT THE INSTANCE OF THE CITY OF LAS VEGAS.
2. THE LAND SURVEYED LIES WITHIN PORTIONS OF SECTION 5, TOWNSHIP 20 SOUTH, RANGE 60 EAST, M.D.M., AND SECTIONS 29 & 32, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA AND THE SURVEY WAS COMPLETED ON JUNE 14, 2016.
3. THIS SURVEY COMPLIES WITH APPLICABLE STATUTES OF THIS STATE AND ANY LOCAL ORDINANCES IN EFFECT ON THE DATE THAT THE SURVEY WAS COMPLETED, AND THE SURVEY WAS CONDUCTED IN ACCORDANCE WITH CHAPTER 625 OF THE NEVADA ADMINISTRATION CODE.
4. THE MONUMENTS DEPICTED ON THE PLAT ARE OF THE CHARACTER SHOWN, OCCUPY THE POSITIONS INDICATED, AND ARE OF SUFFICIENT DURABILITY.

PAUL BURN, PLS
 PROFESSIONAL LAND SURVEYOR
 NEVADA LICENSE NO. 11174



BASIS OF BEARINGS

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

DATUM (REFERENCE FRAME): NAD 1983 (2011) EPOCH 2010.0

ZONE: LAS VEGAS ZONE
 STANDARD PARALLEL AND GRID ORIGIN: 36°15'00" N
 CENTRAL MERIDIAN: 114°58'00" W
 FALSE NORTHING: 200,000 METERS
 FALSE EASTING: 100,000 METERS
 STANDARD PARALLEL SCALE: 1.0001
 LINEAR UNIT: US SURVEY FOOT (SFT)

COUNTY RECORDER'S NOTE

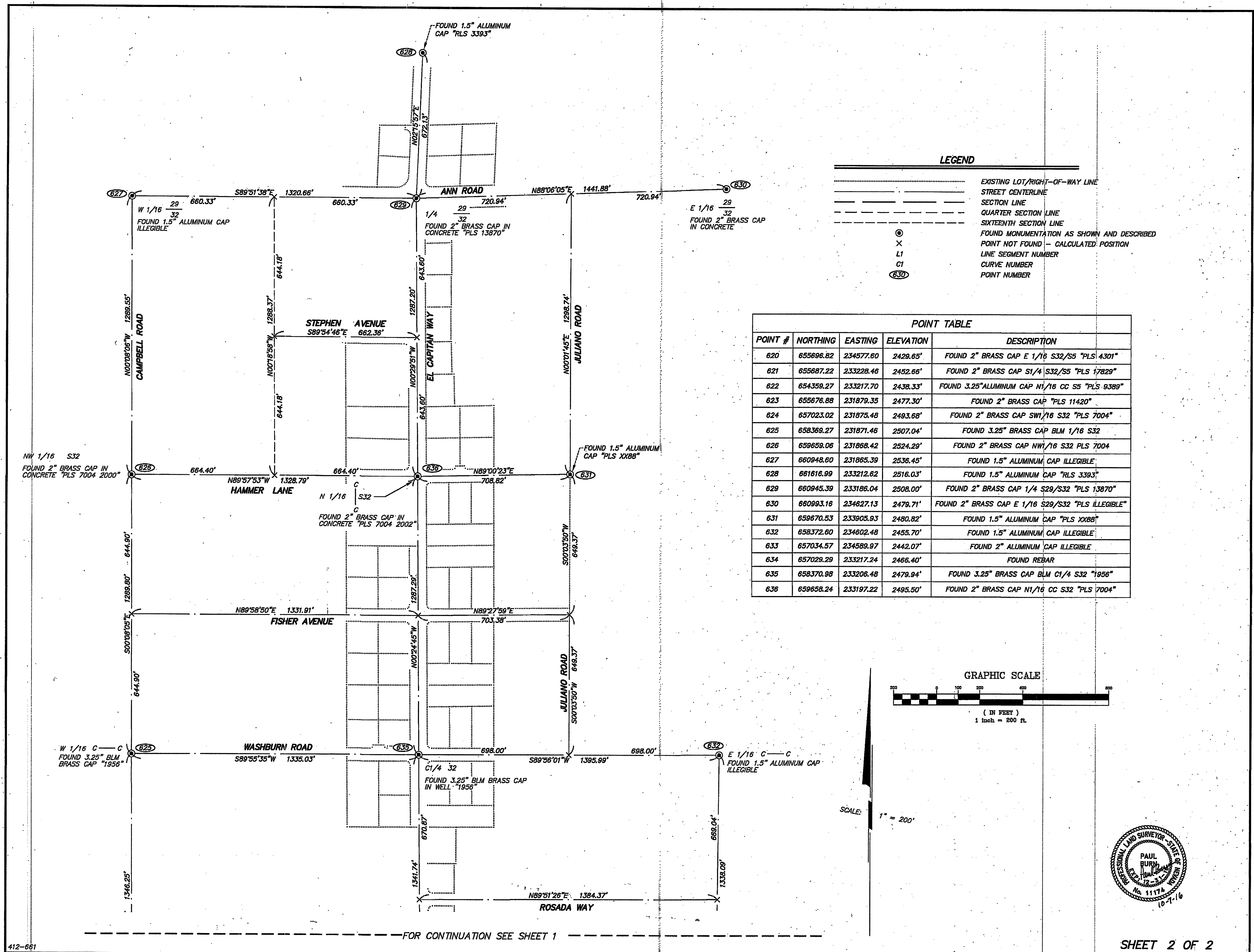
ANY SUBSEQUENT CHANGES TO THIS MAP SHOULD BE EXAMINED AND MAY BE DETERMINED BY REFERENCE TO THE COUNTY RECORDER'S CUMULATIVE MAP INDEX. N.R.S. 278.5695

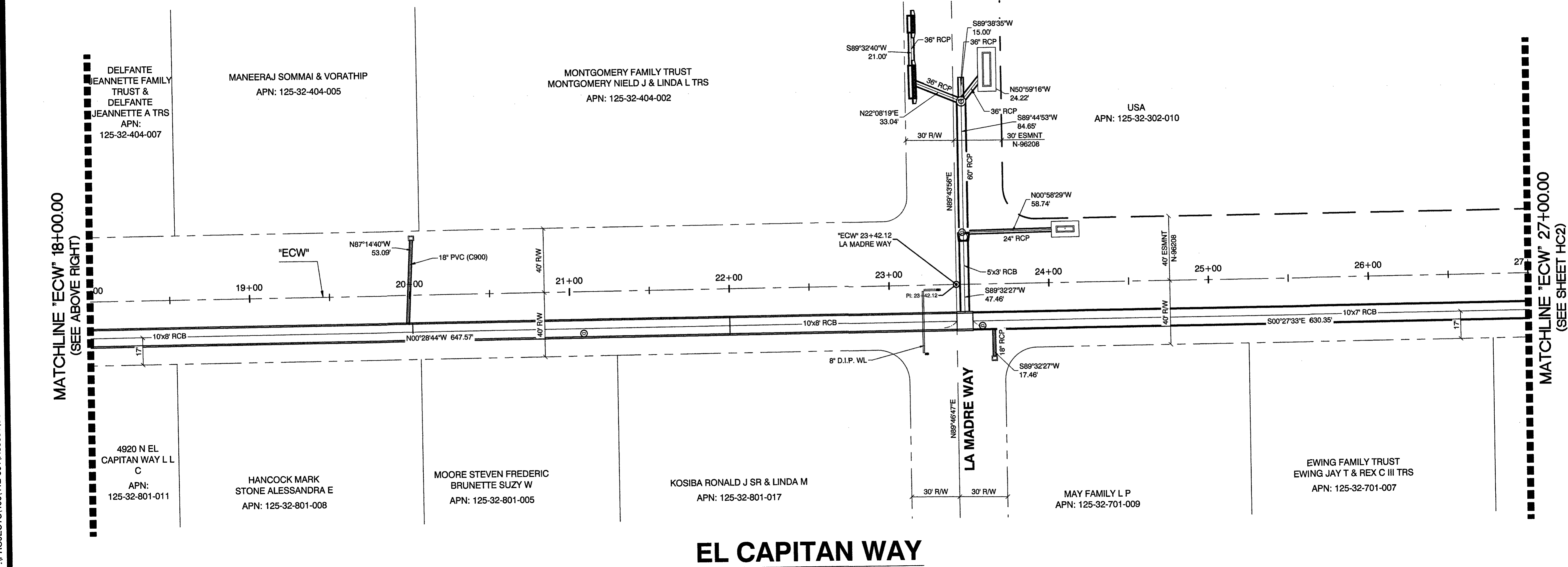
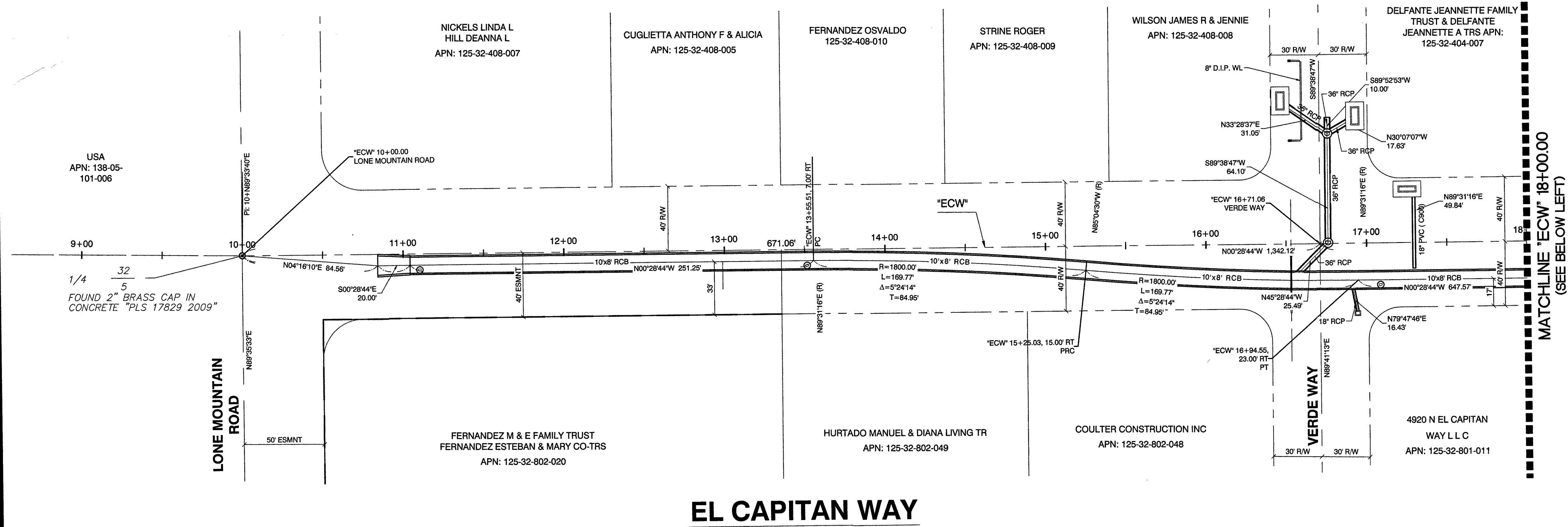
CLV GRID No. 63691

RECORD OF SURVEY FOR THE CITY OF LAS VEGAS	INSTRUMENT NO. 1257 OFFICIAL RECORDS BOOK NO. 20161007
PORTIONS OF SECTION 5, TOWNSHIP 20 SOUTH, RANGE 60 EAST, M.D.M., AND SECTIONS 29 & 32, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA	FILED AT THE REQUEST OF GCW, INC. DATE 10/17/2016 AT 2:01 pm
GCW ENGINEERS & SURVEYORS 1555 S. RAINBOW BLVD. LAS VEGAS, NV 89146 T: 702.804.8000 F: 702.804.2299 gcwengineering.com	FILE 206 PAGE 95 RECORD OF SURVEY CLARK COUNTY, NEVADA RECORDS DEBBIE CONWAY, RECORDER FEE \$ 34.00 DEPUTY Schable

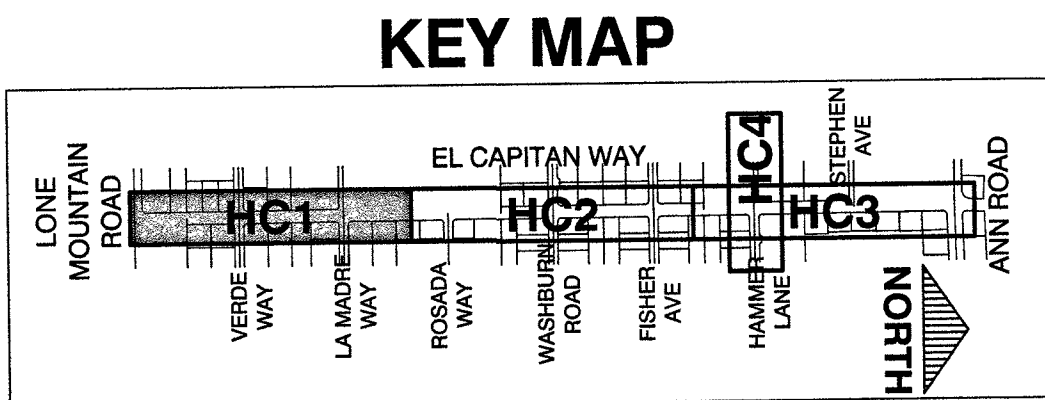
SHEET 1 OF 2

FILE **206** PAGE **95**



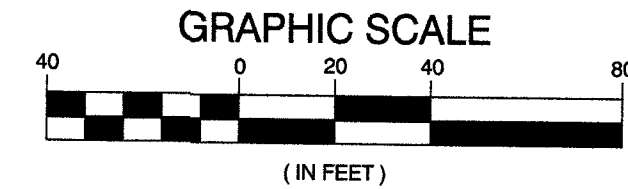
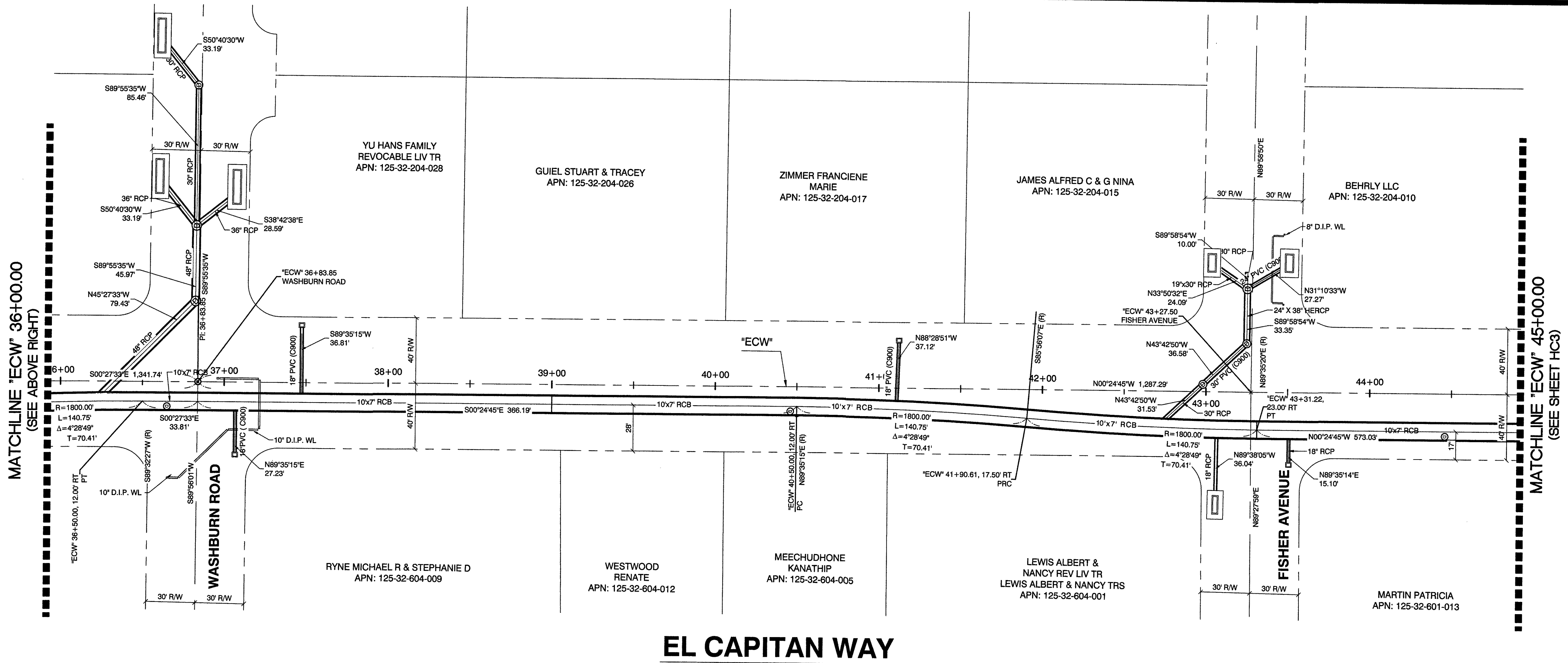
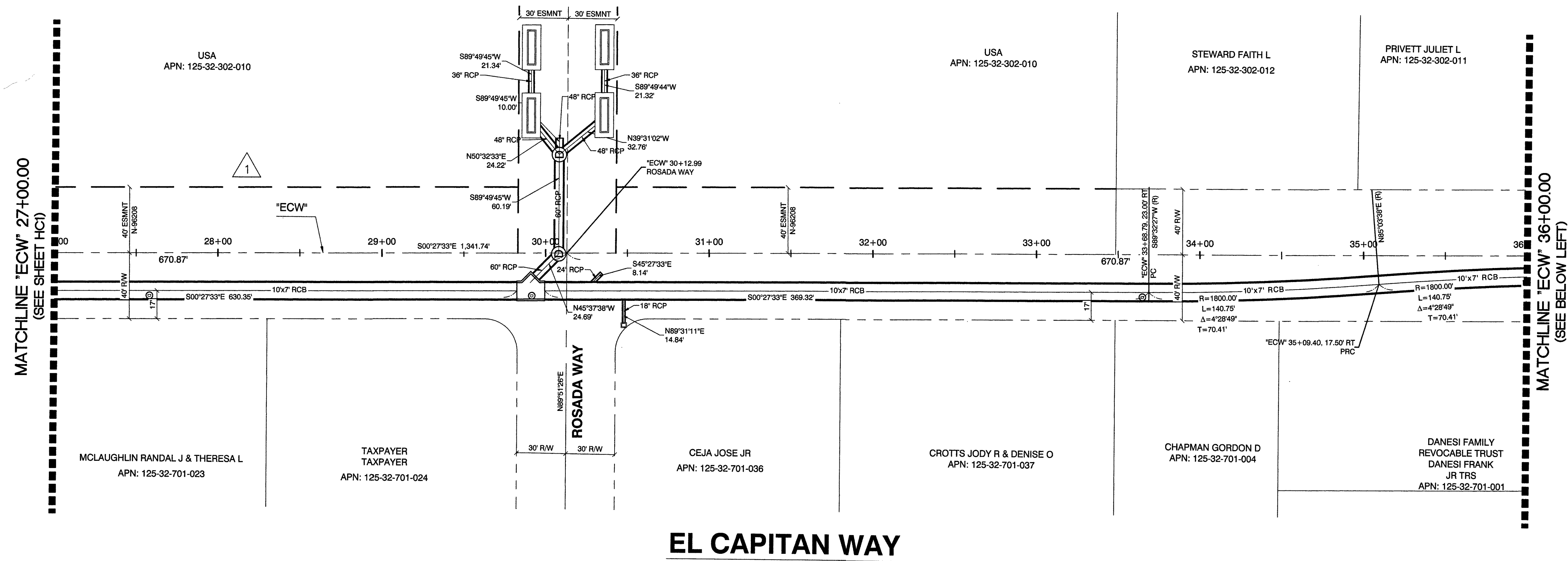


CALL BEFORE CONSTRUCTION		
BEFORE YOU DIG	USA NORTH	811 OR 800-227-2500
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
BEFORE YOU OVERHEAD	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
	NV ENERGY	702-227-2929



PREPARED FOR	CITY OF LAS VEGAS	BID# 17-63691	DESIGNED BY: RKG	DRAWN BY: RKG	CHECKED BY: SJ
TITLE	GOWAN NORTH - EL CAPITAN BRANCH LONE MOUNTAIN ROAD TO ANN ROAD	H# 63691	DATE: 11/14/17	SUBMITTAL STAGE: 100% - FINAL	
SHEET	HORIZONTAL CONTROL PLAN "ECW" 9+00.00 TO "ECW" 27+00.00				
RECORD DRAWINGS					
COVER SHEET SEALED 11/14/2017					
ENGINEER OF RECORD: STEPHEN M. JONES P.E. No. 19638					
SHEET	HC1				
DRAWING NO.	6 OF 52				
	327V294				

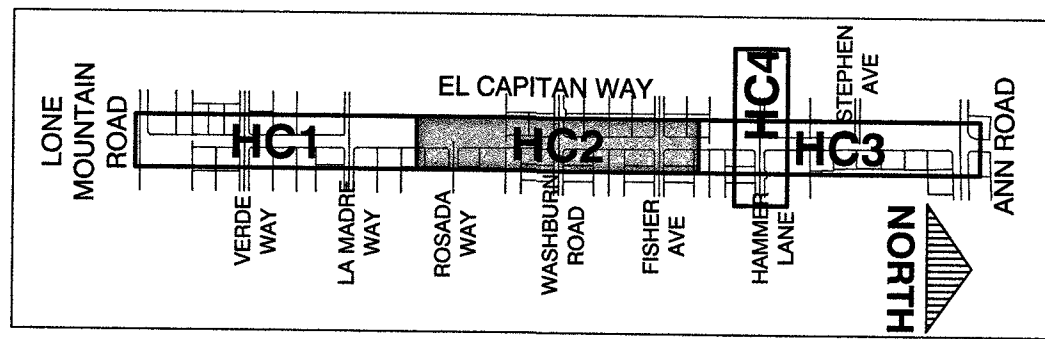
RECORD DRAWINGS
RECORD DRAWINGS COMPLETED: JANUARY 2020
BY GCW, INC.
PROJECT FINAL COMPLETION: OCTOBER 9, 2019
CONTRACTOR: LAS VEGAS PAVING CORP.
CONSTRUCTION MANAGER: DIVERSIFIED CONSULTING SERVICES
THESE DRAWINGS HAVE BEEN ALTERED TO INDICATE AS-BUILT INFORMATION AS PROVIDED BY THE CONSTRUCTION CONTRACTOR. THIS DATA MAY NOT REFLECT ACTUAL FIELD CONDITIONS. ALL DATA SHOULD BE CONFIRMED PRIOR TO INCLUSION IN SUBSEQUENT PLANS.



CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-6300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2829

KEY MAP



RECORD DRAWINGS
RECORD DRAWINGS COMPLETED: JANUARY 2020
BY GCW, INC.
PROJECT FINAL COMPLETION: OCTOBER 9, 2019
CONTRACTOR: LAS VEGAS PAVING CORP.
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NO.	DATE	REVISIONS
1	8/21/18	OBTAINED BLM EASEMENT

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

DESIGNED BY: RKB	DRAWN BY: RKB	CHECKED BY: SJ
BID# 17-63691	DATE: 11/14/17	SUBMITTAL STAGE: 100% - FINAL

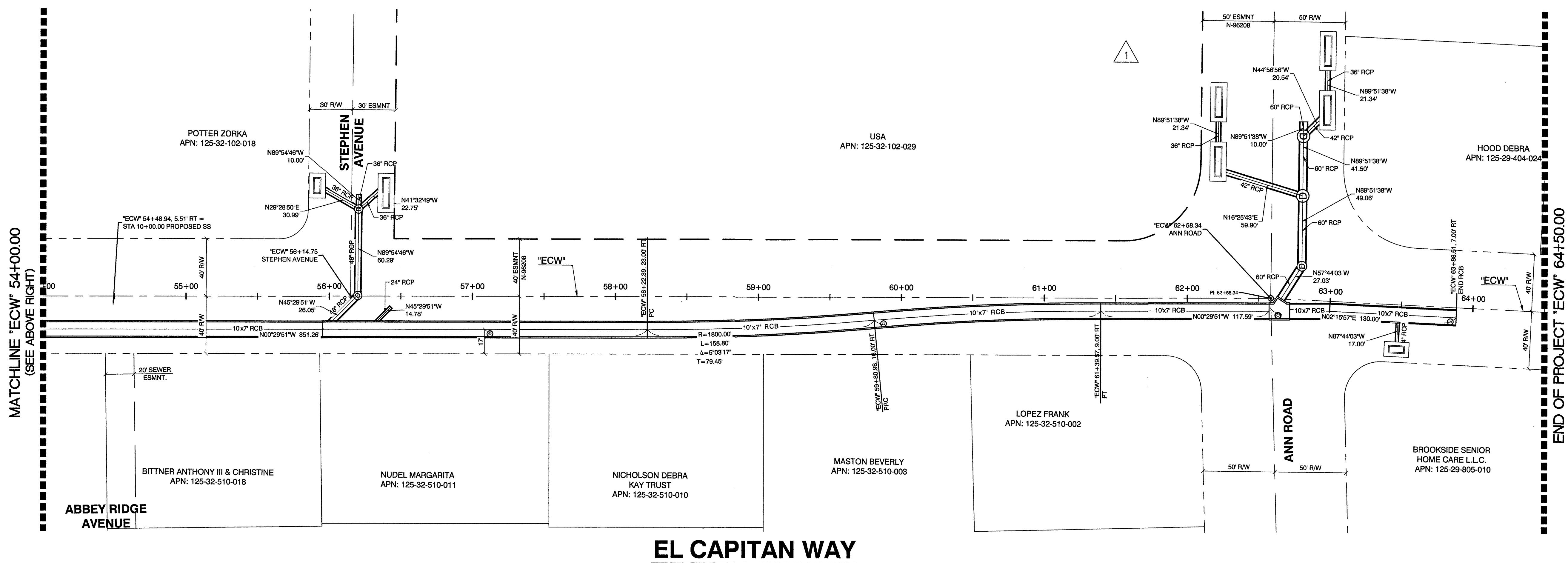
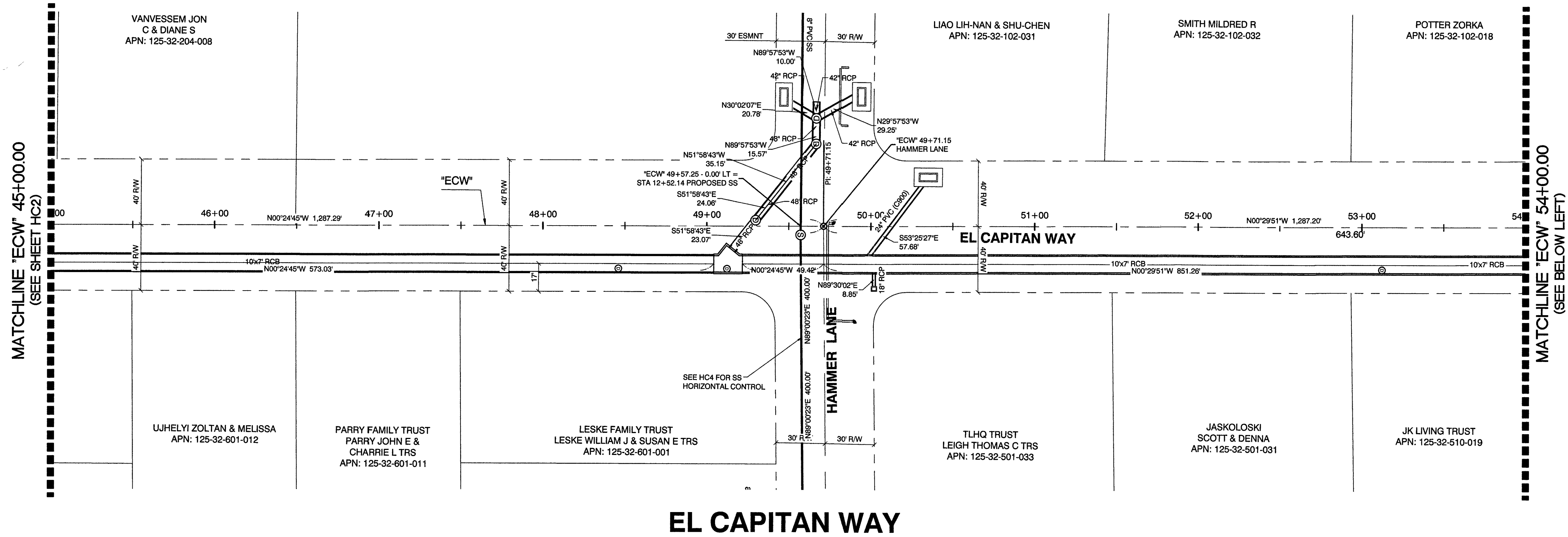
TITLE
**GOWAN NORTH - EL CAPITAN BRANCH
LONE MOUNTAIN ROAD TO ANN ROAD**
SHEET
**HORIZONTAL CONTROL PLAN
"ECW" 27+00.00 TO "ECW" 45+00.00**

RECORD
DRAWINGS

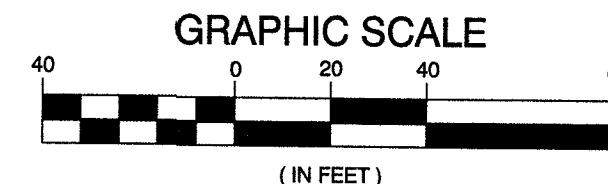
COVER SHEET SEALED
11/14/2017

ENGINEER OF RECORD:
STEPHEN M. JONES
P.E. No. 19638
SHEET

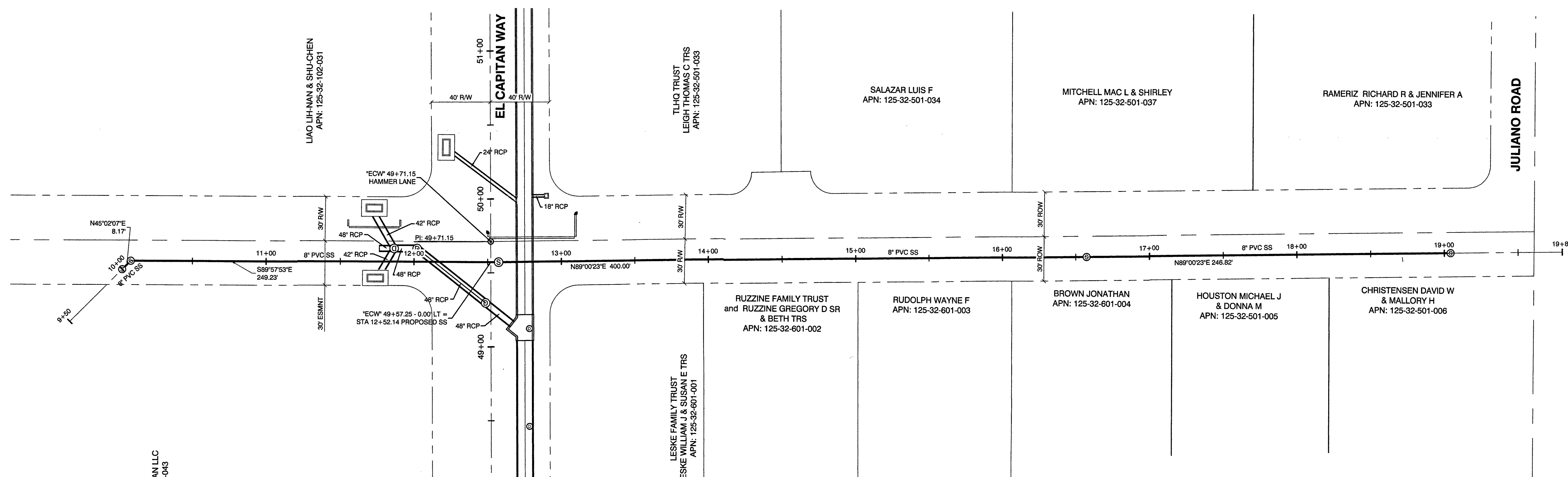
HC2
7 OF 52
DRAWING NO.
327V294



RECORD DRAWINGS COMPLETED: JANUARY 2020
BY GCW, INC.
PROJECT FINAL COMPLETION: OCTOBER 9, 2019
CONTRACTOR: LAS VEGAS PAVING CORP.
CONSTRUCTION MANAGER: DIVERSIFIED CONSULTING SERVICES
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BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929



HAMMER LANE

# 63691	BID # 17-63691
DATE: 11/14/17	DESIGNED BY: RKB
SUBMITTAL STAGE: 100% - FINAL	DRAWN BY: RKB
	CHECKED BY: SJ

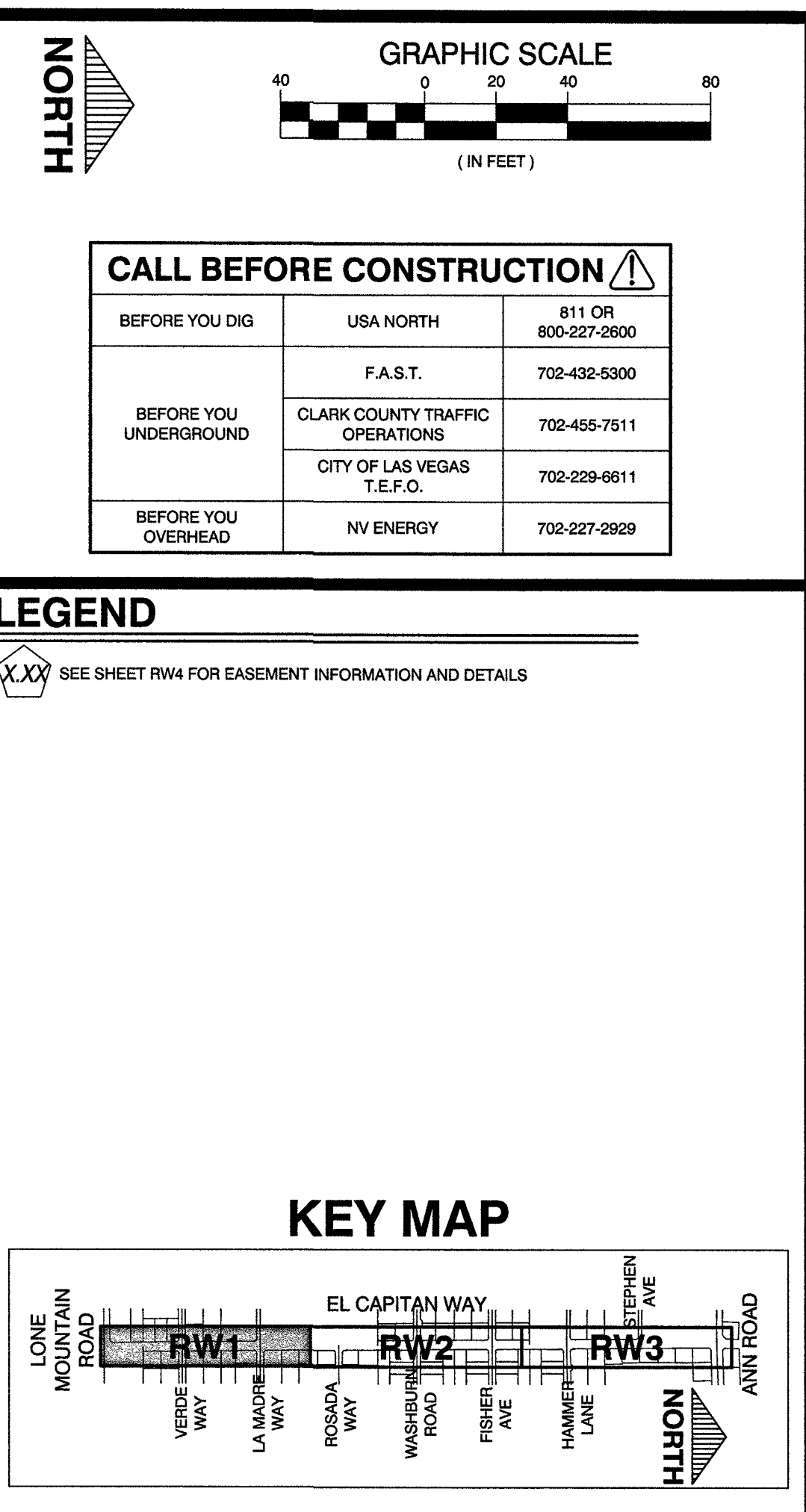
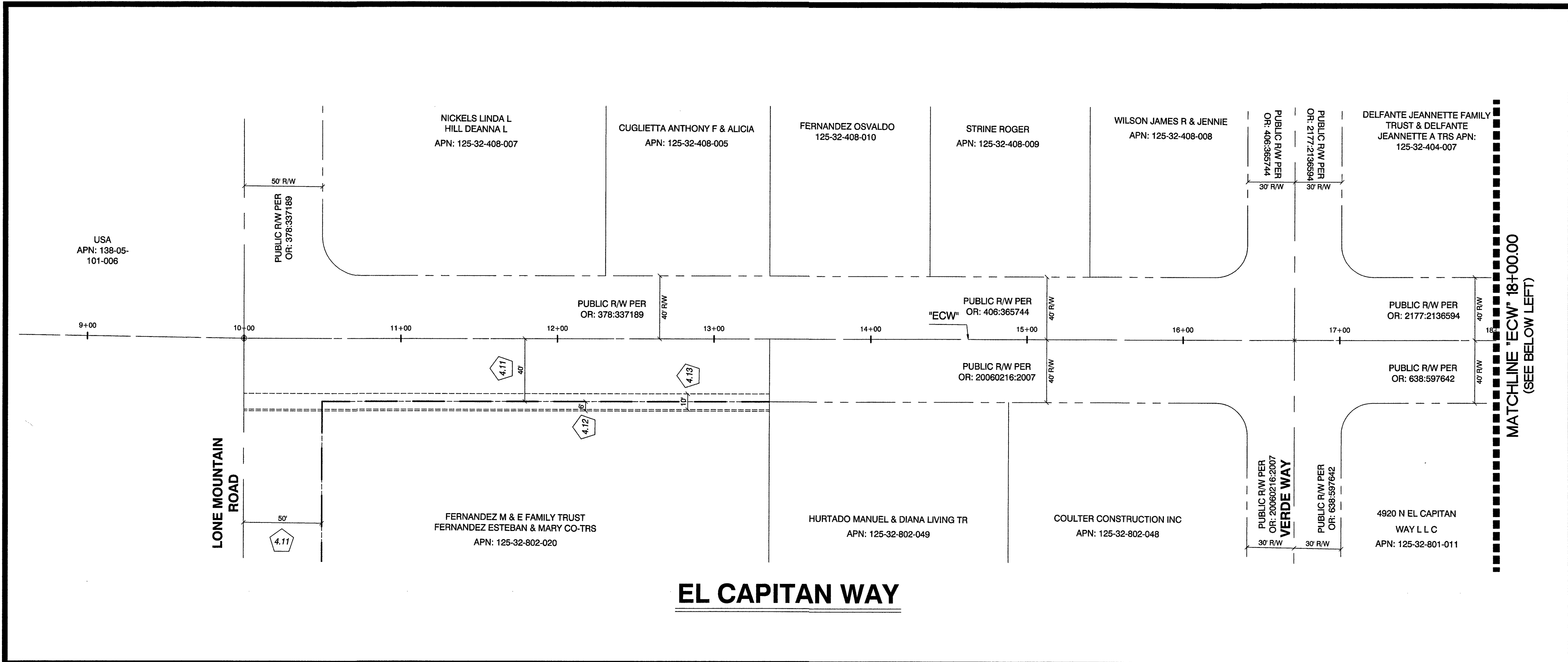
**HORIZONTAL CONTROL PLAN
HAMMER LANE**

COVER SHEET SEALED
11/14/2017

SHEET

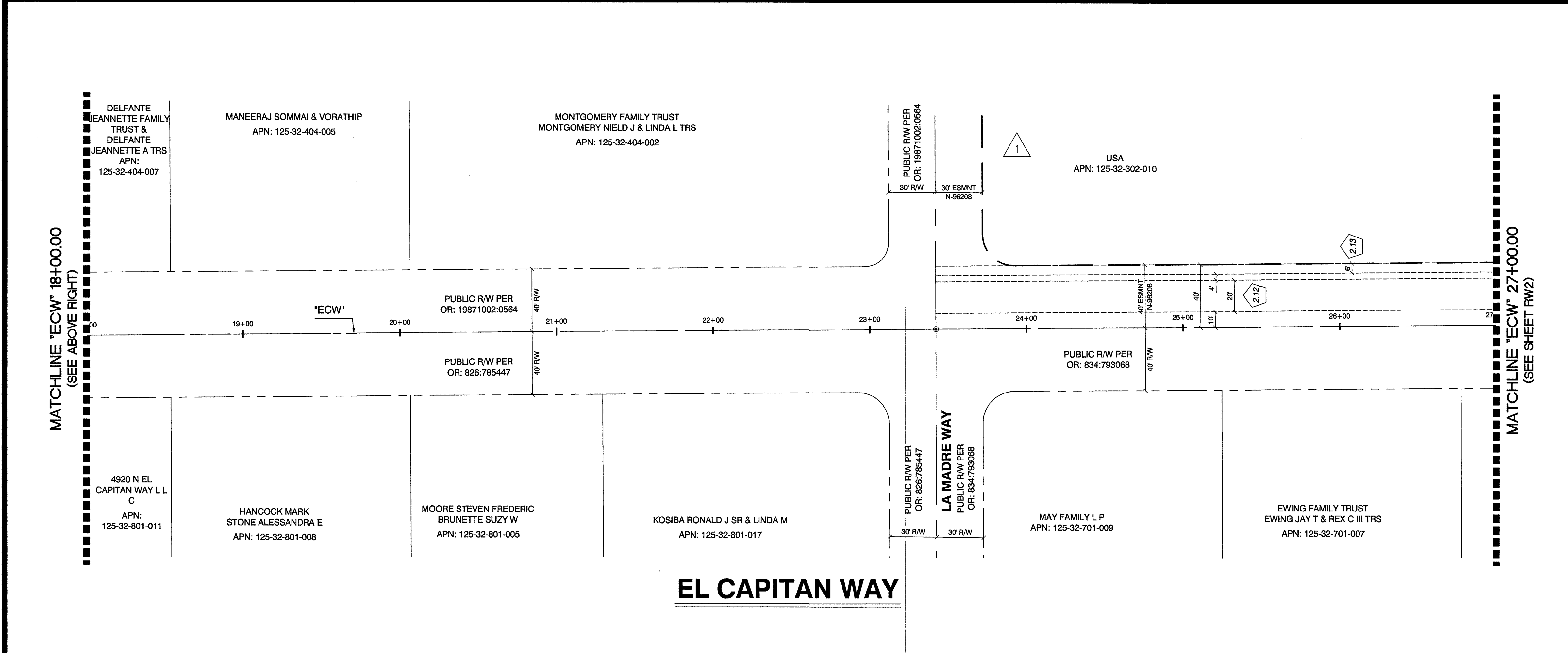
9 OF 52

DRAWING NO.
327V294



CALL BEFORE CONSTRUCTION		
BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
BEFORE YOU OVERHEAD	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
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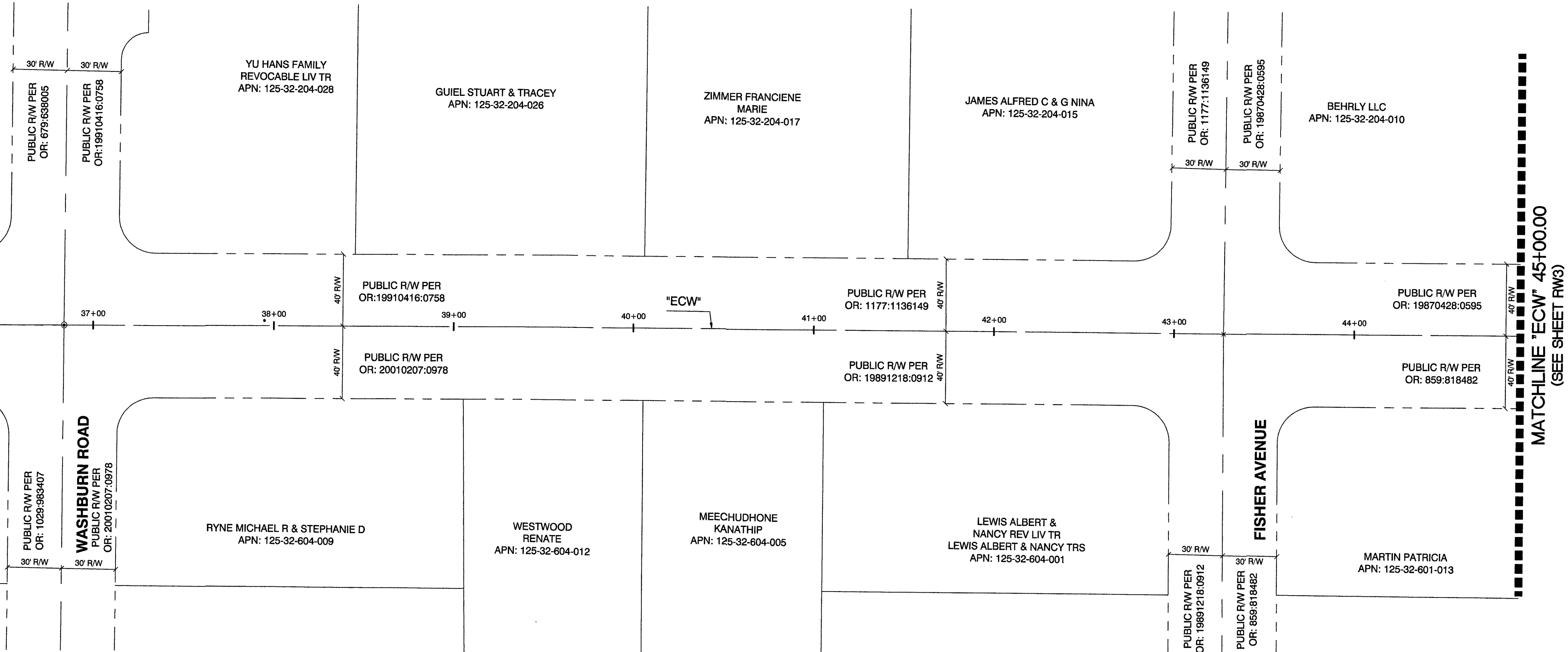
LEGEND
X.XX SEE SHEET RW4 FOR EASEMENT INFORMATION AND DETAILS



RECORD DRAWINGS
RECORD DRAWINGS COMPLETED: JANUARY 2020
BY CCW, INC.
PROJECT FINAL COMPLETION: OCTOBER 9, 2019
CONTRACTOR: LAS VEGAS PAVING CORP.
CONSTRUCTION MANAGER: DIVERSIFIED CONSULTING SERVICES
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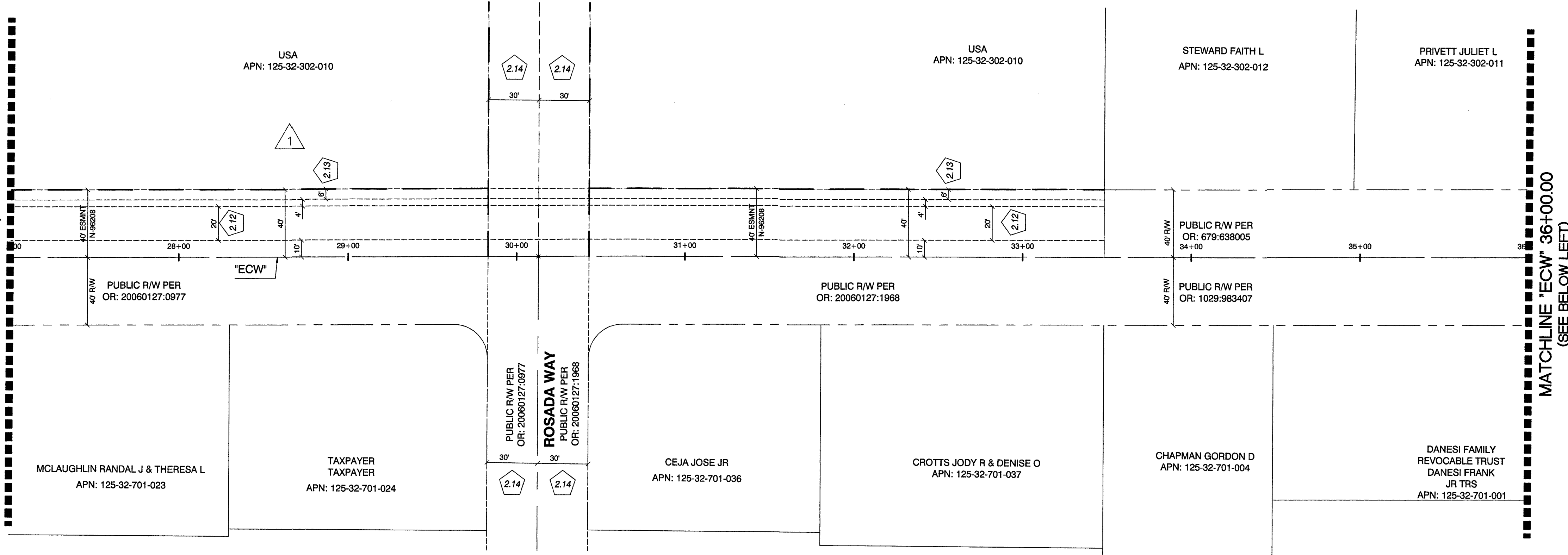
PREPARED BY		DESIGNED BY: TH		DRAWN BY: TH		CHECKED BY: PB	
CITY OF LAS VEGAS		H# 63691		DATE: 11/14/17		SUBMITTAL STAGE: 100% - FINAL	
GOWAN NORTH - EL CAPITAN BRANCH		LONE MOUNTAIN ROAD TO ANN ROAD		RIGHT-OF-WAY PLAN		"ECW" 9+00.00 TO "ECW" 27+00.00	
SHEET		RECORD DRAWINGS		COVER SHEET SEALED 11/14/2017		ENGINEER OF RECORD: STEPHEN M. JONES P.E. No. 19638	
RW1		10 OF 52		DRAWING NO. 327V294		NO. DATE	
OBTAINED BLM EASEMENT		REVISED		NO. DATE		REVISED	

MATCHLINE "ECW" 36+00.00
(SEE ABOVE RIGHT)

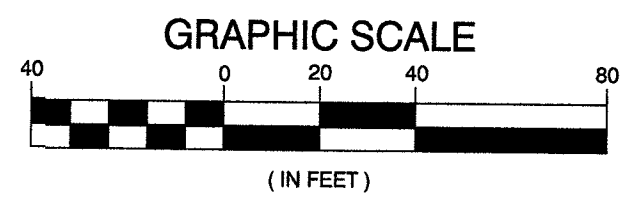


EL CAPITAN WAY

MATCHLINE "ECW" 27+00.00
(SEE SHEET RW)



EL CAPITAN WAY

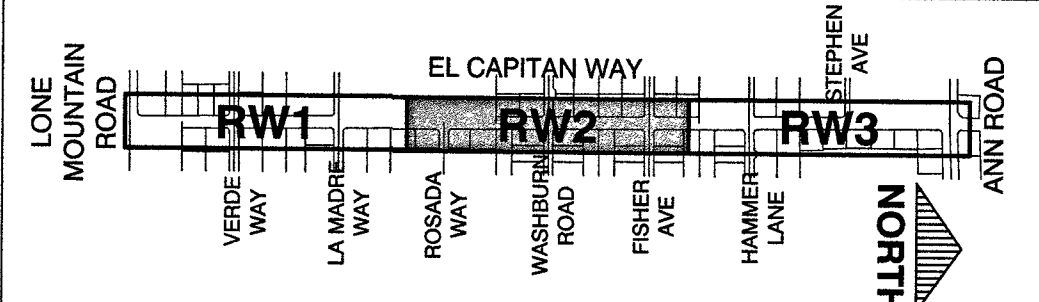


CALL BEFORE CONSTRUCTION		
BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
BEFORE YOU OVERHEAD	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
	NV ENERGY	702-227-2929

LEGEND

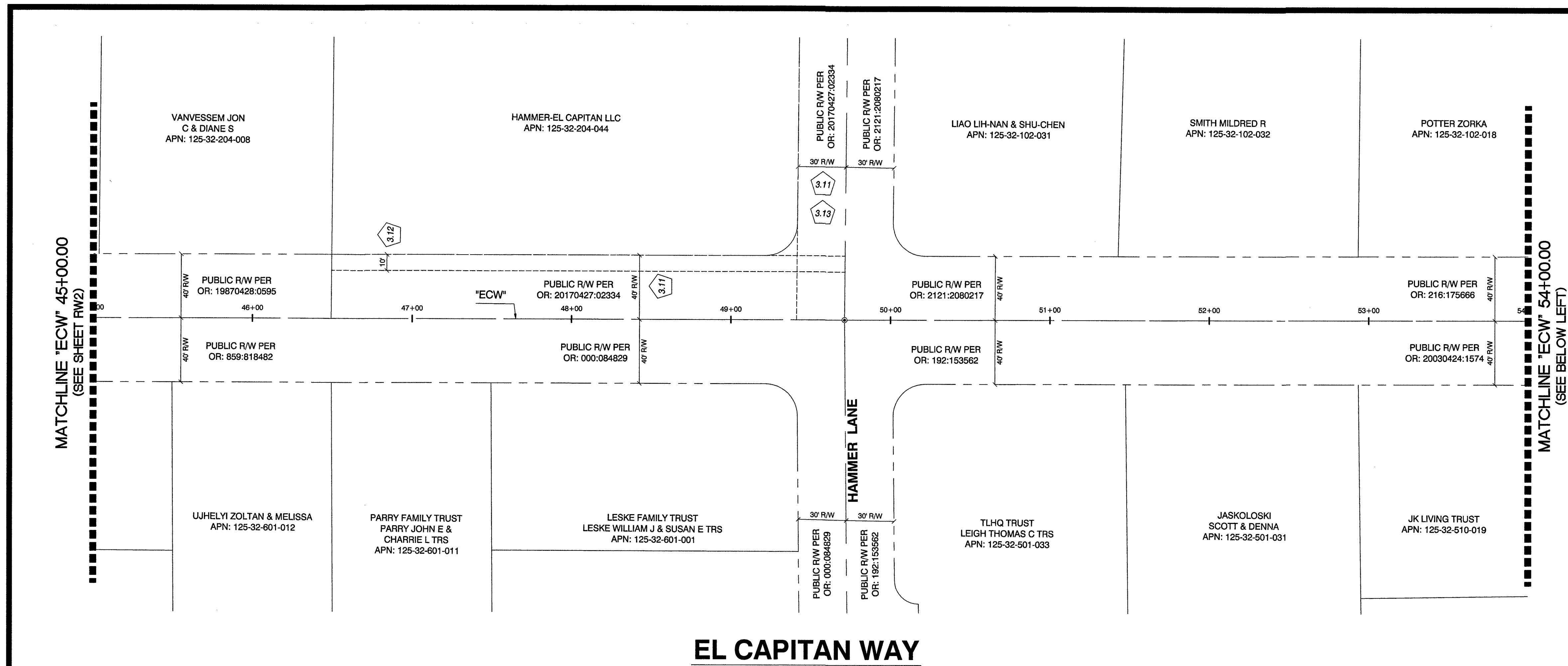
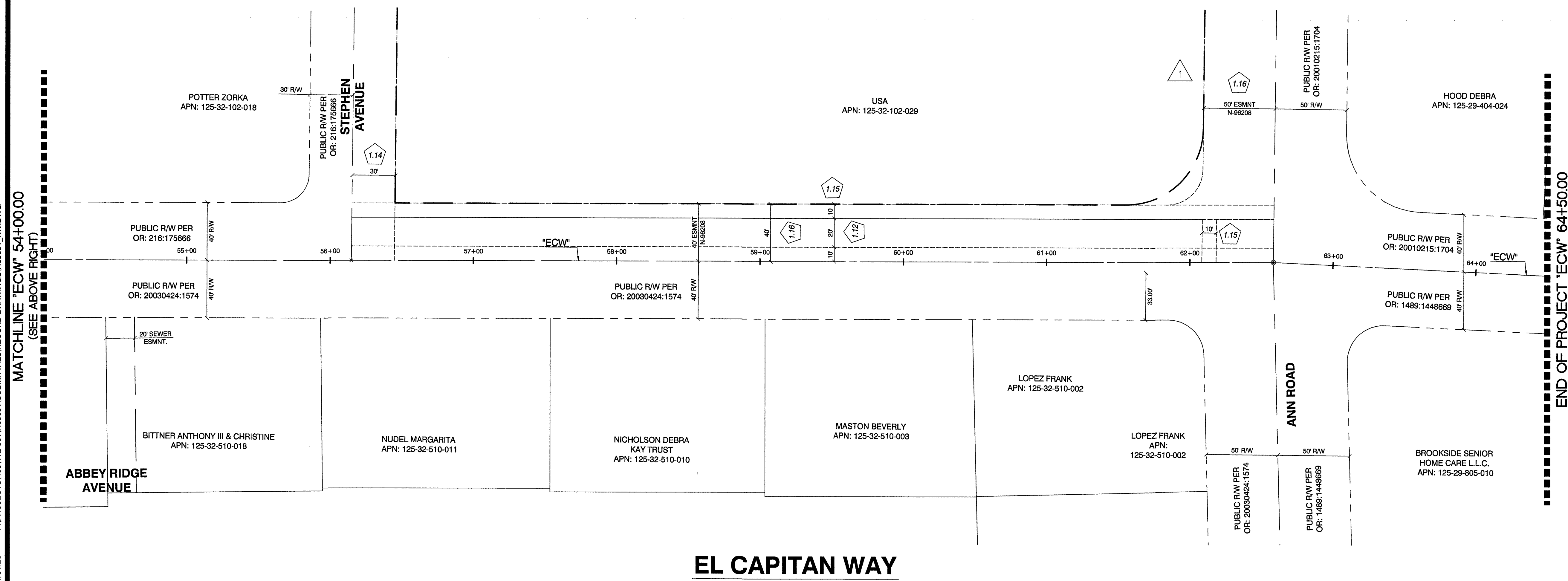
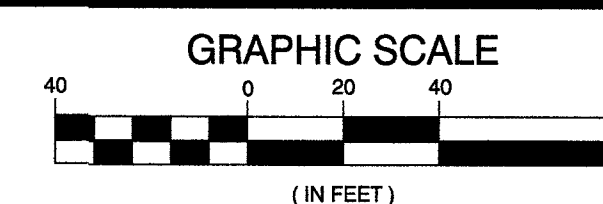
X.XX SEE SHEET RW4 FOR EASEMENT INFORMATION AND DETAILS

KEY MAP



RECORD DRAWINGS
RECORD DRAWINGS COMPLETED: JANUARY 2020
BY OCW, INC.
PROJECT FINAL COMPLETION: OCTOBER 9, 2019
CONTRACTOR: LAS VEGAS PAVING CORP.
CONSTRUCTION MANAGER: DIVERSIFIED CONSULTING SERVICES
THESE DRAWINGS HAVE BEEN ALTERED TO INDICATE AS-BUILT INFORMATION AS PROVIDED BY THE CONSTRUCTION CONTRACTOR. THIS DATA MAY NOT REFLECT ACTUAL FIELD CONDITIONS. ALL DATA SHOULD BE CONFIRMED PRIOR TO INCLUSION IN SUBSEQUENT PLANS.

PREPARED FOR		CITY OF LAS VEGAS	
H# 63691		DESIGNED BY: TH	
DATE: 11/14/17		DRAWN BY: TH	
SUBMITTAL STAGE:		CHECKED BY: RB	
100% - FINAL			
TITLE		GOWAN NORTH - EL CAPITAN BRANCH	
SHEET		LONE MOUNTAIN ROAD TO ANN ROAD	
RECORD DRAWINGS		RIGHT-OF-WAY PLAN	
COVER SHEET SEALED		"ECW" 27+00.00 TO "ECW" 45+00.00	
11/14/2017			
ENGINEER OF RECORD:		STEPHEN M. JONES	
P.E. No. 19638			
SHEET		RW2	
11 OF 52			
DRAWING NO.		327V294	


NORTH

CALL BEFORE CONSTRUCTION 		
BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU Q/VERHAFD.	NV ENERGY	702-227-2929

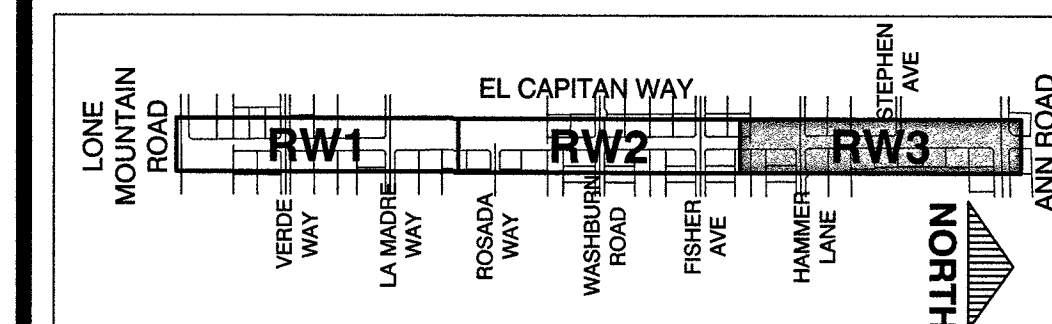
LEGEND

X.XX SEE SHEET RW4 FOR EASEMENT INFORMATION AND DETAILS

RECORD DRAWINGS

RECORD DRAWINGS COMPLETED: JANUARY 2020
BY GCW, INC.
PROJECT FINAL COMPLETION: OCTOBER 9, 2019
CONTRACTOR: LAS VEGAS PAVING CORP.
CONSTRUCTION MANAGER: DIVERSIFIED CONSULTING SERVICES
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AS-BUILT INFORMATION AS PROVIDED BY THE
CONSTRUCTION CONTRACTOR. THIS DATA MAY NOT
REFLECT ACTUAL FIELD CONDITIONS. ALL DATA SHOULD BE
CONFIRMED PRIOR TO INCLUSION IN SUBSEQUENT PLANS

KEY MAP



PREPARED FOR
CITY OF LAS VEGAS

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

# 63691	BID # 17-63691
DATE: 11/14/17	DESIGNED BY: TH
SUBMITTAL STAGE:	DRAWN BY: TH
100% - FINAL	CHECKED BY: PB

TITLE
GOWAN NORTH - EL CAPITAN BRANCH
LONE MOUNTAIN ROAD TO ANN ROAD

RIGHT-OF-WAY PLAN
"ECW" 45+00.00 TO "ECW" 64+50.00

RECORD
DRAWINGS

COVER SHEET SEALED
11/14/2017

ENGINEER OF RECORD
STEPHEN M. JONES
P.E. No. 19638

RW3

12 OF 52

DRAWING NO.
327V294

TITLE REPORT - APN: 125-32-102-029

THIS SURVEY IS BASED ON A COMMITMENT FOR TITLE INSURANCE PREPARED BY NEVADA TITLE COMPANY, FILE NUMBER: 16-09-0969-MLD, DATED AUGUST 18, 2016. GCW INC., ASSUMES NO RESPONSIBILITY OR LIABILITY FOR THE COMPLETENESS OR ACCURACY OF THE ABOVE MENTIONED REPORT. THIS SURVEY DOES NOT CONSTITUTE A TITLE SEARCH AND IS SUBJECT TO THE EXCLUSIONS, RESTRICTIONS AND EXCEPTIONS LISTED IN THE REFERENCES AND DESCRIBED IN SAID COMMITMENT FOR TITLE INSURANCE.

TITLE REPORT EXCEPTIONS

- # = NUMERIC SEQUENCE - ITEMS WHICH CAN BE VISUALLY LOCATED AND/OR MAPPED WHICH AFFECT THE SUBJECT PROPERTY, EXCEPTING TAXES, SUPPLEMENTAL TAXES, LEASE AGREEMENTS, FINANCING STATEMENTS, DEEDS OF TRUST AND OTHER MISCELLANEOUS DOCUMENTS.
- 1.12 TERMS, COVENANTS, CONDITIONS, PROVISIONS AND EASEMENTS IN AN INSTRUMENT ENTITLED, "RIGHT OF WAY GRANT/TEMPORARY USE PERMIT", IN FAVOR OF LAS VEGAS VALLEY WATER DISTRICT RECORDED APRIL 5, 1993, IN BOOK 930405 AS DOCUMENT NO. 00825, OF OFFICIAL RECORDS. (PLOTTED)
- 1.13 THE EFFECT OF THE FOLLOWING RECORD OF SURVEY FILED IN FILE 106 OF SURVEYS AT PAGE 41, RECORDED DECEMBER 15, 1999, IN BOOK 991215, AS DOCUMENT NO. 00429 OF OFFICIAL RECORDS. (NO EASEMENTS GRANTED)
- 1.14 TERMS, COVENANTS, CONDITIONS, PROVISIONS AND EASEMENTS IN AN INSTRUMENT ENTITLED, "NOTICE OF RIGHT OF WAY AMENDMENT", IN FAVOR OF COUNTY OF CLARK RECORDED JUNE 4, 2001, IN BOOK 20010604 AS DOCUMENT NO. 00124, OF OFFICIAL RECORDS. (PLOTTED)
- 1.15 TERMS, COVENANTS, CONDITIONS, PROVISIONS AND EASEMENTS IN AN INSTRUMENT ENTITLED, "RIGHT OF WAY GRANT/TEMPORARY USE PERMIT", IN FAVOR OF NEVADA POWER COMPANY RECORDED APRIL 6, 2004, IN BOOK 20040406 AS DOCUMENT NO. 0001878, OF OFFICIAL RECORDS. (PLOTTED)
- 1.16 TERMS, COVENANTS, CONDITIONS, PROVISIONS AND EASEMENTS IN AN INSTRUMENT ENTITLED, "RIGHT OF WAY GRANT/TEMPORARY USE PERMIT", IN FAVOR OF COUNTY OF CLARK RECORDED JANUARY 11, 2005, IN BOOK 20050111 AS DOCUMENT NO. 0004396, OF OFFICIAL RECORDS. (PLOTTED)

TITLE REPORT - APN: 125-32-302-010

THIS SURVEY IS BASED ON A COMMITMENT FOR TITLE INSURANCE PREPARED BY NEVADA TITLE COMPANY, FILE NUMBER: 16-09-0976-MLD, DATED AUGUST 19, 2016. GCW INC., ASSUMES NO RESPONSIBILITY OR LIABILITY FOR THE COMPLETENESS OR ACCURACY OF THE ABOVE MENTIONED REPORT. THIS SURVEY DOES NOT CONSTITUTE A TITLE SEARCH AND IS SUBJECT TO THE EXCLUSIONS, RESTRICTIONS AND EXCEPTIONS LISTED IN THE REFERENCES AND DESCRIBED IN SAID COMMITMENT FOR TITLE INSURANCE.

TITLE REPORT EXCEPTIONS

- # = NUMERIC SEQUENCE - ITEMS WHICH CAN BE VISUALLY LOCATED AND/OR MAPPED WHICH AFFECT THE SUBJECT PROPERTY, EXCEPTING TAXES, SUPPLEMENTAL TAXES, LEASE AGREEMENTS, FINANCING STATEMENTS, DEEDS OF TRUST AND OTHER MISCELLANEOUS DOCUMENTS.
- 2.12 TERMS, COVENANTS, CONDITIONS, PROVISIONS AND EASEMENTS IN AN INSTRUMENT ENTITLED, "RIGHT OF WAY GRANT/TEMPORARY USE PERMIT", IN FAVOR OF LAS VEGAS VALLEY WATER DISTRICT RECORDED APRIL 5, 1993, IN BOOK 930405 AS DOCUMENT NO. 00825, OF OFFICIAL RECORDS. (PLOTTED)
- 2.13 TERMS, COVENANTS, CONDITIONS, PROVISIONS AND EASEMENTS IN AN INSTRUMENT ENTITLED, "RIGHT OF WAY GRANT/TEMPORARY USE PERMIT", IN FAVOR OF NEVADA POWER COMPANY RECORDED MARCH 19, 2001, IN BOOK 20010319 AS DOCUMENT NO. 00958, OF OFFICIAL RECORDS. (PLOTTED)
- 2.14 TERMS, COVENANTS, CONDITIONS, PROVISIONS AND EASEMENTS IN AN INSTRUMENT ENTITLED, "NOTICE OF RIGHT OF WAY GRANT", IN FAVOR OF COUNTY OF CLARK RECORDED JUNE 4, 2001, IN BOOK 20010604 AS DOCUMENT NO. 00125, OF OFFICIAL RECORDS. (PLOTTED)

TITLE REPORT - APN:125-32-204-005

THIS SURVEY IS BASED ON A COMMITMENT FOR TITLE INSURANCE PREPARED BY NEVADA TITLE COMPANY, FILE NUMBER: 16-09-0974-MLD, DATED AUGUST 16, 2016. GCW INC., ASSUMES NO RESPONSIBILITY OR LIABILITY FOR THE COMPLETENESS OR ACCURACY OF THE ABOVE MENTIONED REPORT. THIS SURVEY DOES NOT CONSTITUTE A TITLE SEARCH AND IS SUBJECT TO THE EXCLUSIONS, RESTRICTIONS AND EXCEPTIONS LISTED IN THE REFERENCES AND DESCRIBED IN SAID COMMITMENT FOR TITLE INSURANCE.

TITLE REPORT EXCEPTIONS

- # = NUMERIC SEQUENCE - ITEMS WHICH CAN BE VISUALLY LOCATED AND/OR MAPPED WHICH AFFECT THE SUBJECT PROPERTY, EXCEPTING TAXES, SUPPLEMENTAL TAXES, LEASE AGREEMENTS, FINANCING STATEMENTS, DEEDS OF TRUST AND OTHER MISCELLANEOUS DOCUMENTS.
- 3.11 RESERVATIONS IN THE PATENT FROM THE UNITED STATES OF AMERICA, RECORDED MAY 21, 1968, IN BOOK 861 AS DOCUMENT NO. 691226, OF OFFICIAL RECORDS. (PLOTTED)
- 3.12 AN EASEMENT AFFECTING THAT PORTION OF SAID LAND AND FOR THE PURPOSES THEREIN AND INCIDENTAL PURPOSES THERETO, IN FAVOR OF NEVADA POWER COMPANY, FOR ELECTRICAL LINES, RECORDED JUNE 30, 2003, IN BOOK 20030630 AS DOCUMENT NO. 00050 OF OFFICIAL RECORDS. (PLOTTED)
- 3.13 TERMS, COVENANTS, CONDITIONS, PROVISIONS AND EASEMENTS IN AN INSTRUMENT ENTITLED, "DECLARATION OF UTILIZATION", RECORDED MARCH 21, 2011, IN BOOK 20110321 AS DOCUMENT NO. 0003282, OF OFFICIAL RECORDS. (PLOTTED)
- 3.14 TERMS, COVENANTS, CONDITIONS AND PROVISIONS IN AN INSTRUMENT ENTITLED, "RESTRICTIVE COVENANT RUNNING WITH THE LAND", RECORDED JULY 27, 2016, IN BOOK 20160727 AS DOCUMENT NO. 02254, OF OFFICIAL RECORDS. (BLANKET IN NATURE)

TITLE REPORT - APN:125-32-802-020

THIS SURVEY IS BASED ON A COMMITMENT FOR TITLE INSURANCE PREPARED BY NEVADA TITLE COMPANY, FILE NUMBER: 16-09-0977-MLD, DATED AUGUST 19, 2016. GCW INC., ASSUMES NO RESPONSIBILITY OR LIABILITY FOR THE COMPLETENESS OR ACCURACY OF THE ABOVE MENTIONED REPORT. THIS SURVEY DOES NOT CONSTITUTE A TITLE SEARCH AND IS SUBJECT TO THE EXCLUSIONS, RESTRICTIONS AND EXCEPTIONS LISTED IN THE REFERENCES AND DESCRIBED IN SAID COMMITMENT FOR TITLE INSURANCE.

TITLE REPORT EXCEPTIONS

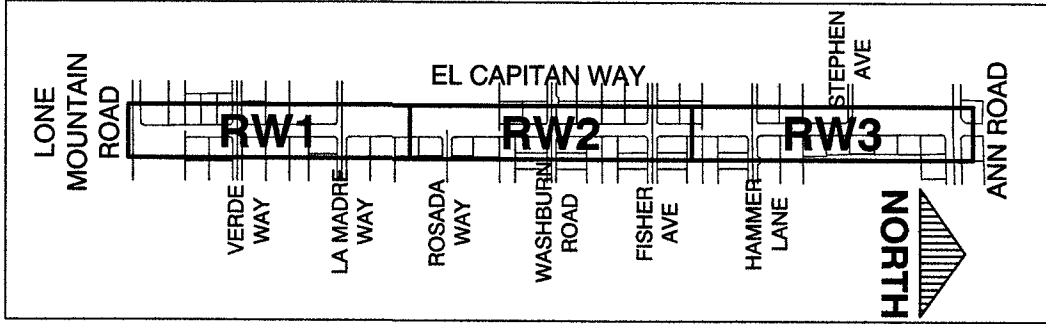
- # = NUMERIC SEQUENCE - ITEMS WHICH CAN BE VISUALLY LOCATED AND/OR MAPPED WHICH AFFECT THE SUBJECT PROPERTY, EXCEPTING TAXES, SUPPLEMENTAL TAXES, LEASE AGREEMENTS, FINANCING STATEMENTS, DEEDS OF TRUST AND OTHER MISCELLANEOUS DOCUMENTS.
- 4.11 RESERVATIONS AND EASEMENTS IN THE PATENT FROM THE UNITED STATES OF AMERICA, RECORDED MARCH 29, 1968, IN BOOK 860 AS DOCUMENT NO. 690999, OF OFFICIAL RECORDS. (PLOTTED)
- 4.12 AN EASEMENT AFFECTING THAT PORTION OF SAID LAND AND FOR THE PURPOSES THEREIN AND INCIDENTAL PURPOSES THERETO, IN FAVOR OF CENTRAL TELEPHONE COMPANY, FOR COMMUNICATIONS, RECORDED NOVEMBER 29, 1976, IN BOOK 682 AS DOCUMENT NO. 641407 OF OFFICIAL RECORDS. (PLOTTED)
- 4.13 AN EASEMENT AFFECTING THAT PORTION OF SAID LAND AND FOR THE PURPOSES THEREIN AND INCIDENTAL PURPOSES THERETO, IN FAVOR OF NEVADA POWER COMPANY AND CENTRAL TELEPHONE COMPANY, FOR ELECTRICAL AND COMMUNICATION FACILITIES, RECORDED DECEMBER 17, 1976, IN BOOK 689 AS DOCUMENT NO. 648335 OF OFFICIAL RECORDS. (PLOTTED)

CALL BEFORE CONSTRUCTION 		
BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-456-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2329

LEGEND

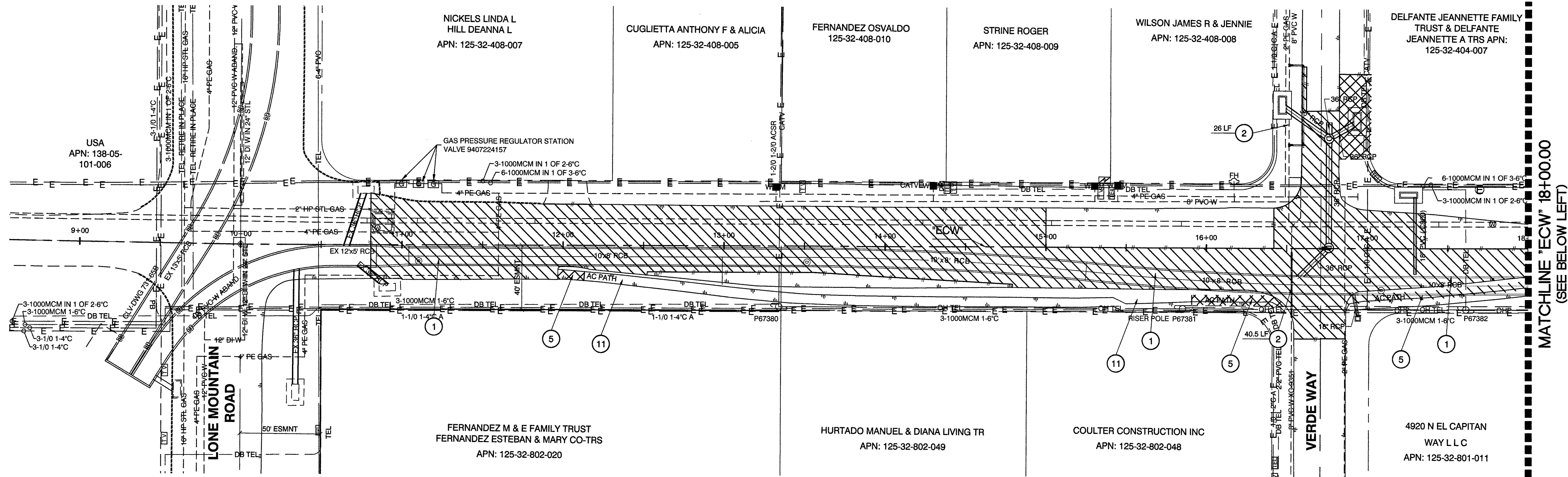
 SEE SHEET RW4 FOR EASEMENT INFORMATION AND DETAILS

KEY MAP



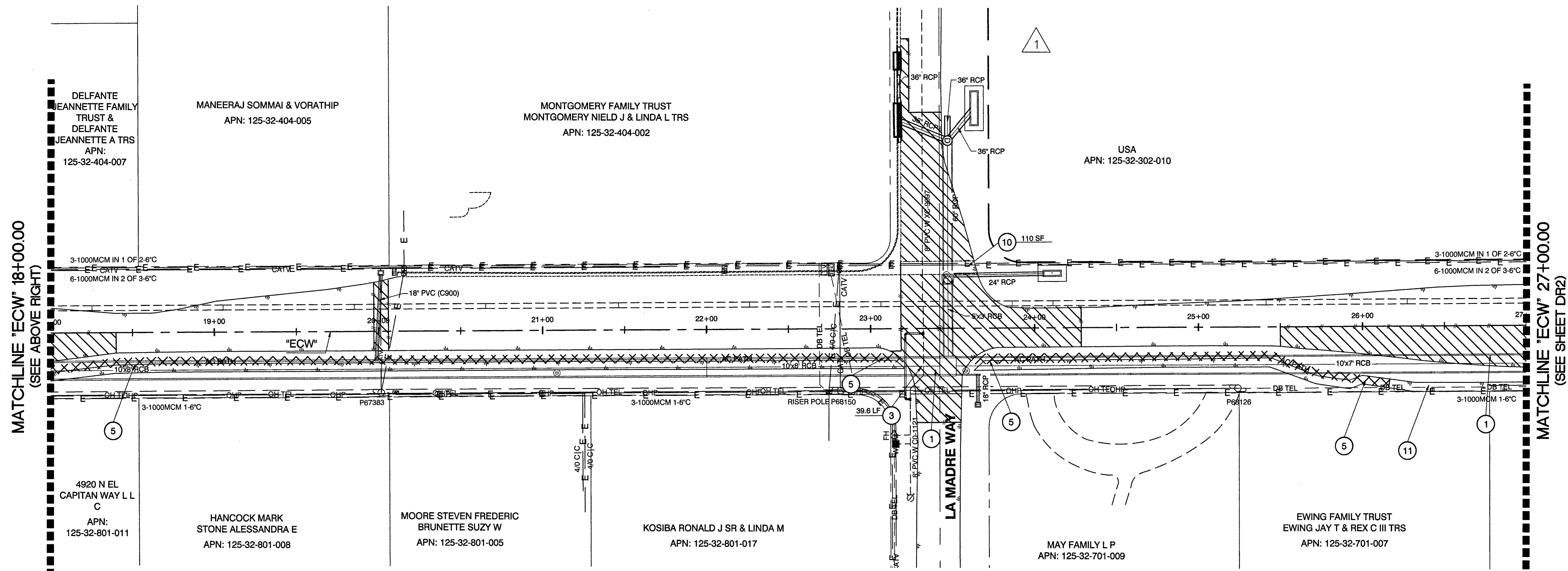
PREPARED BY		GCW		1555 S. RAINBOW BLVD. LAS VEGAS, NV 89146 T: 702.204.2200 F: 702.204.2299 gcwinc.com	
ENGINEERS		SURVEYORS		REVISIONS	
NO.		DATE			
PREPARED FOR		CITY OF LAS VEGAS			
H# 63691		BID# 17-63691		DESIGNED BY: TH	
DATE: 11/14/17				DRAWN BY: TH	
SUBMITTAL STAGE:		100% - FINAL		CHECKED BY: PB	
TITLE		GOWAN NORTH - EL CAPITAN BRANCH		RIGHT-OF-WAY PLAN	
SHEET		LONE MOUNTAIN ROAD TO ANN ROAD		EASEMENT INFORMATION	
RECORD DRAWINGS		COVER SHEET SEALED 11/14/2017		ENGINEER OF RECORD: STEPHEN M. JONES	
P.E. No. 19638		SHEET		RW4	
DRAWING NO. 327V294		13 OF 52			

RECORD DRAWINGS
RECORD DRAWINGS COMPLETED: JANUARY 2020
BY GCW, INC.
PROJECT FINAL COMPLETION: OCTOBER 9, 2019
CONTRACTOR: LAS VEGAS PAVING CORP.
CONSTRUCTION MANAGER: DIVERSIFIED CONSULTING SERVICES
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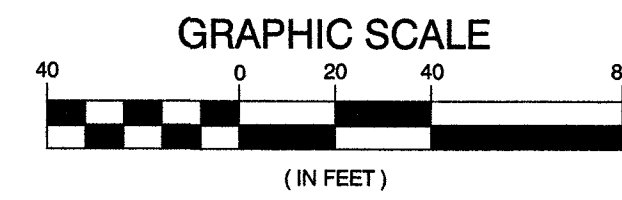


CAUTION:
HIGH PRESSURE GASLINE
CALL SOUTHWEST GAS AT 702-400-1789 FOR STANDBY WHEN
EXCAVATION OVER OR NEAR HIGH PRESSURE GAS LINES 48
HOURS PRIOR TO CONSTRUCTION

EL CAPITAN WAY



EL CAPITAN WAY



CALL BEFORE CONSTRUCTION		
BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
BEFORE YOU OVERHEAD	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
	NV ENERGY	702-227-2929

REMOVAL KEY NOTES

- 1 REMOVE AND REPLACE AC PAVEMENT PER DETAIL 1 AND 2, SHT. DT1
- 2 REMOVE 8" PVC WATER
- 3 REMOVE 10" PVC WATER
- 4 REMOVE 12" PVC WATER
- 5 REMOVE AND REPLACE AC PATH, INSTALL TACTILE WARNING PANELS PER CCUSD 235 AT INTERSECTIONS
- 6 ABANDON 8" PVC SS PER DCSWCS 3.18.1(c)
- 7 ABANDON SSMH PER DCSWCS 3.18.2(a)
- 8 REMOVE 8" PVC SS PER DCSWCS 3.18.1(b)
- 9 REMOVE AND REPLACE 48" SSMH
- 10 REMOVE AND REPLACE CROSS GUTTER PER CCUSD #229
- 11 PROTECT-IN-PLACE
- 12 REMOVE AND REPLACE 30 INCH ROLL CURB RESIDENTIAL AREA PER CCUSD #217.2.51

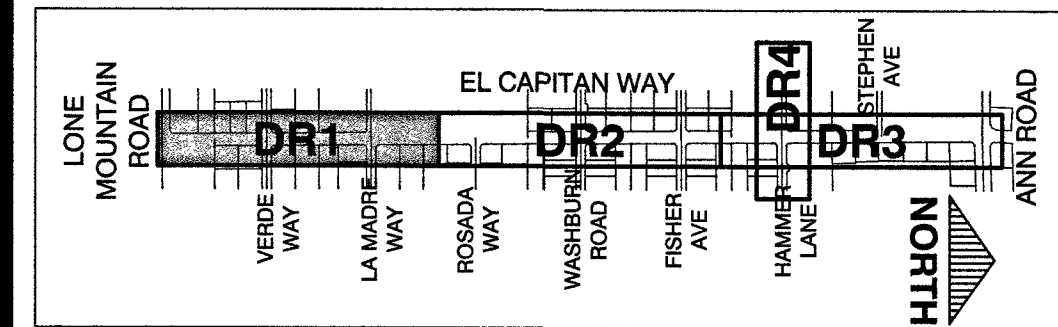
LEGEND

- REMOVE AND REPLACE 4" AC PAVEMENT
- REMOVE AND REPLACE 2" AC PAVEMENT

DISCLAIMER NOTE

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

KEY MAP



RECORD DRAWINGS
RECORD DRAWINGS COMPLETED: JANUARY 2020
BY GCW, INC.
PROJECT FINAL COMPLETION: OCTOBER 9, 2019
CONTRACTOR: LAS VEGAS PAVING CORP.
CONSTRUCTION MANAGER: DIVERSIFIED CONSULTING SERVICES
THESE DRAWINGS HAVE BEEN ALTERED TO INDICATE AS-BUILT INFORMATION AS PROVIDED BY THE CONSTRUCTION CONTRACTOR. THIS DATA MAY NOT REFLECT ACTUAL FIELD CONDITIONS. ALL DATA SHOULD BE CONFIRMED PRIOR TO INCLUSION IN SUBSEQUENT PLANS.

APPROVED FOR CONSTRUCTION
PREVIOUSLY SIGNED BY MIKE DISHARI ON 11/21/17
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT No. 125005 FIRST APPROVED DATE: 11/21/17

REVISIONS	
NO.	DATE
1	8/21/18
OBTAINED BLM EASEMENT	

PREPARED BY
GCW
ENGINEERS SURVEYORS
1555 S. RAINBOW BLVD.
SUITE 100
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
www.governingengineering.com

DESIGNED BY: RKB	DRAWN BY: RKB	CHECKED BY: SJ
BID# 17-63891	DATE: 11/14/17	SUBMITTAL STAGE: 100% - FINAL

TITLE
GOWAN NORTH - EL CAPITAN BRANCH
LONE MOUNTAIN ROAD TO ANN ROAD
SHEET
DEMOLITION/REMOVAL PLAN
"ECW" 9+00.00 TO "ECW" 27+00.00

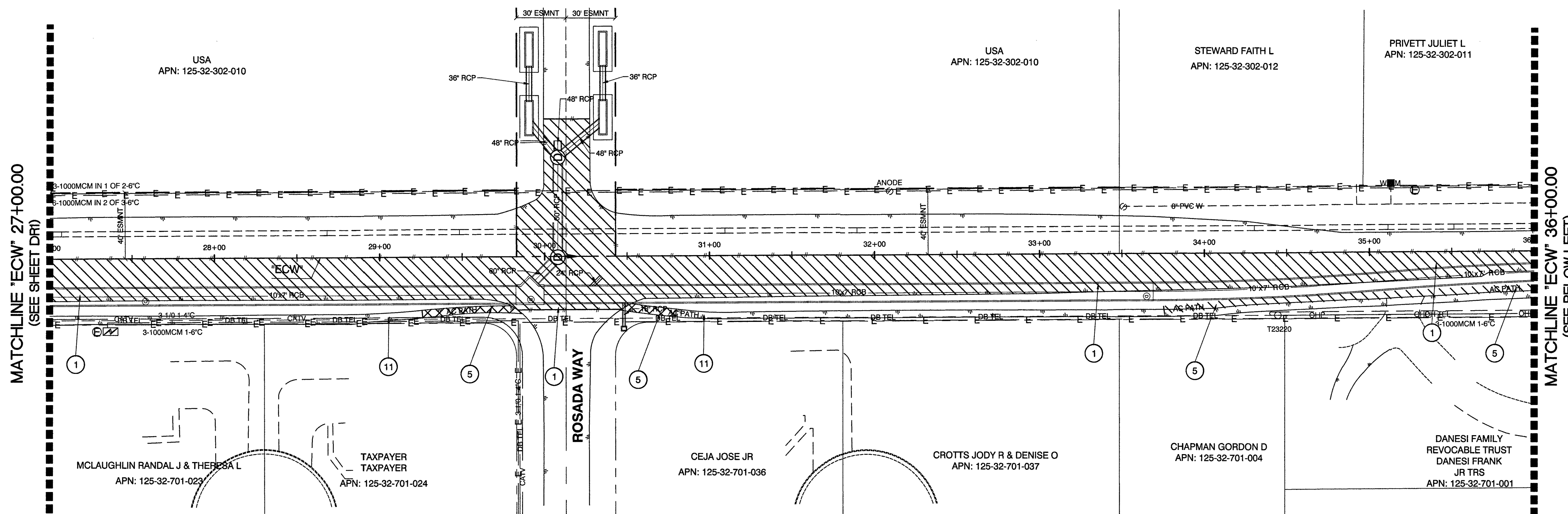
RECORD DRAWINGS
COVER SHEET SEALED
11/14/2017
ENGINEER OF RECORD:
STEPHEN M. JONES
P.E. No. 19638
SHEET
DR1
14 OF 52
DRAWING NO.
327V294

MATCHLINE "ECW" 27+00.00
(SEE SHEET DR1)

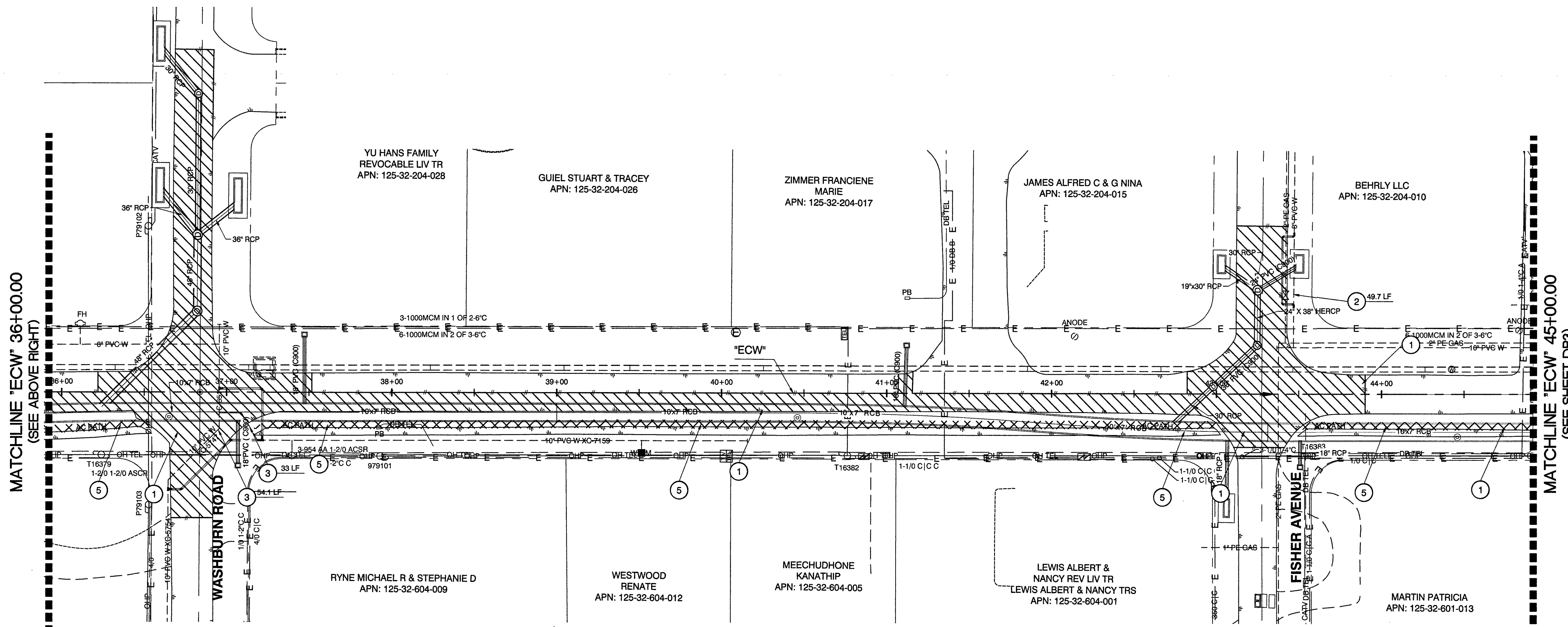
MATCHLINE "ECW" 36+00.00
(SEE ABOVE RIGHT)

MATCHLINE "ECW" 36+00.00
(SEE BELOW LEFT)

MATCHLINE "ECW" 45+00.00
(SEE SHEET DR3)



EL CAPITAN WAY



EL CAPITAN WAY



CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
	F.A.S.T.	702-432-5300
BEFORE YOU UNDERGROUND	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

REMOVAL KEY NOTES

- 1 REMOVE AND REPLACE AC PAVEMENT PER DETAIL 1 AND 2, SHT. DT1
- 2 REMOVE 8" PVC WATER
- 3 REMOVE 10" PVC WATER
- 4 REMOVE 12" PVC WATER
- 5 REMOVE AND REPLACE AC PATH, INSTALL TACTILE WARNING PANELS PER CCUSD 235 AT INTERSECTIONS
- 6 ABANDON 8" PVC SS PER DCSWCS 3.18.1(c)
- 7 ABANDON SSMH PER DCSWCS 3.18.2(a)
- 8 REMOVE 8" PVC SS PER DCSWCS 3.18.1(d)
- 9 REMOVE AND REPLACE 48" SSMH
- 10 REMOVE AND REPLACE CROSS GUTTER PER CCUSD #229
- 11 PROTECT-IN-PLACE
- 12 REMOVE AND REPLACE 30 INCH ROLL CURB RESIDENTIAL AREA PER CCUSD #217.2.S1

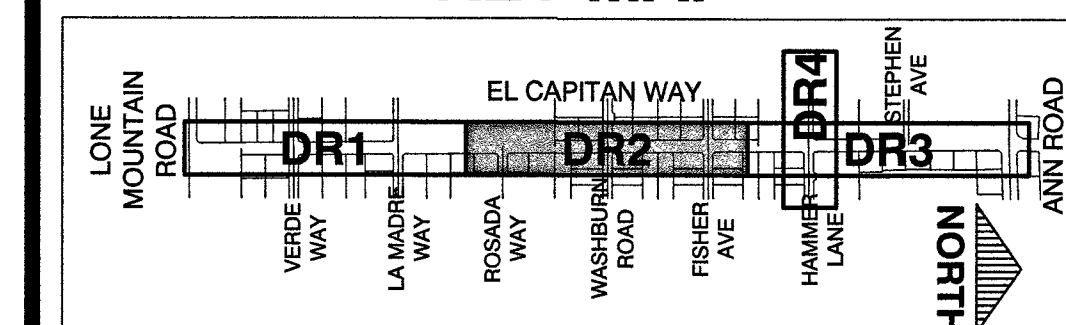
LEGEND

- REMOVE AND REPLACE 4" AC PAVEMENT
- REMOVE AND REPLACE 2" AC PAVEMENT

DISCLAIMER NOTE

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KEY MAP



RECORD DRAWINGS

RECORD DRAWINGS COMPLETED: JANUARY 2020
BY: GCW, INC.
PROJECT FINAL COMPLETION: OCTOBER 9, 2019
CONTRACTOR: LAS VEGAS PAVING CORP.
CONSTRUCTION MANAGER: DIVERSIFIED CONSULTING SERVICES
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APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT No. 125005 FIRST APPROVED DATE: 11/21/17

PREPARED BY

GCW
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
P: 702.804.2000
F: 702.804.2001
www.gcwin.com
ENGINEERS \ SURVEYORS

PREPARED FOR
CITY OF LAS VEGAS

BID# 17-63691
DESIGNED BY: RKB
DRAWN BY: RKB
CHECKED BY: SJ
DATE: 11/14/17
SUBMITTAL STAGE: 100% - FINAL

TITLE
GOWAN NORTH - EL CAPITAN BRANCH
LONE MOUNTAIN ROAD TO ANN ROAD

SHEET
DEMOLITION/REMOVAL PLAN
"ECW" 27+00.00 TO "ECW" 45+00.00

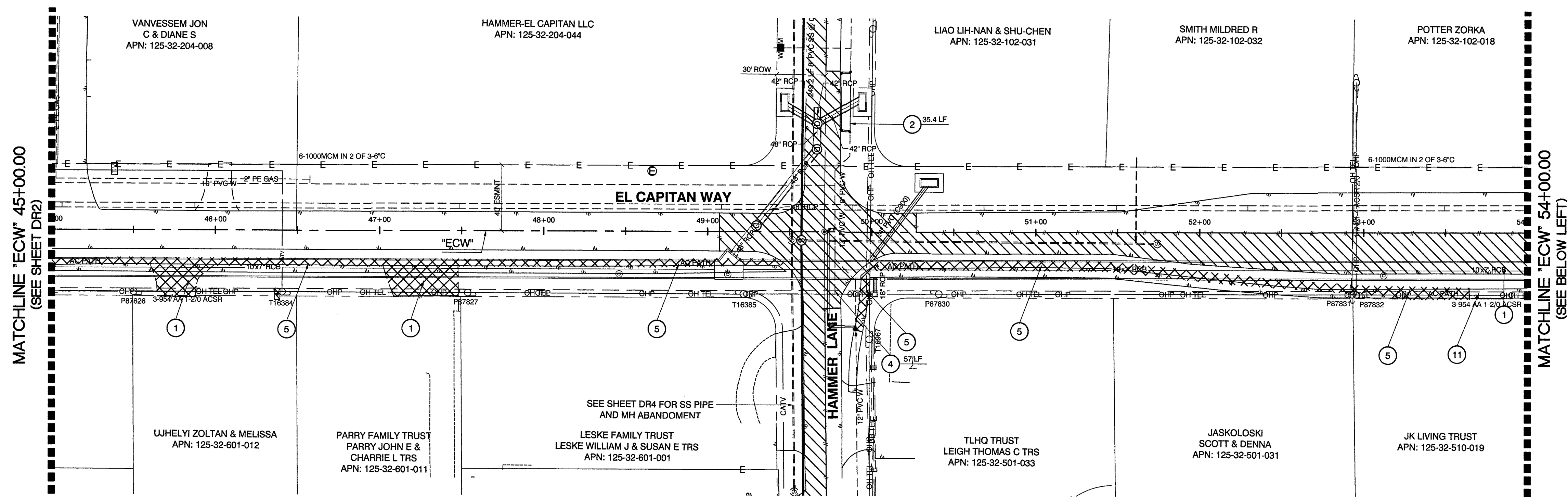
RECORD
DRAWINGS

COVER SHEET SEALED
11/14/2017

ENGINEER OF RECORD
STEPHEN M. JONES
P.E. No. 19638

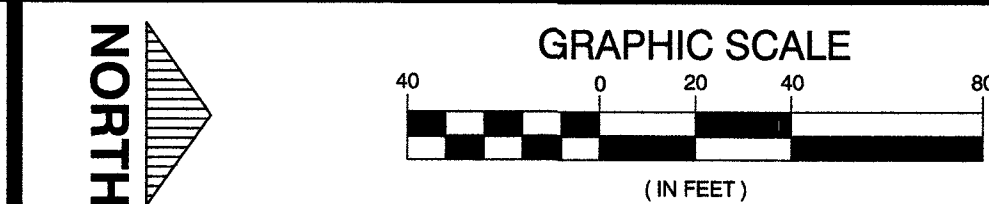
SHEET

DR2
15 OF 52
DRAWING NO.
327V294



EL CAPITAN WAY

RECORD DRAWINGS
RECORD DRAWINGS COMPLETED: JANUARY 2020
BY GCW, INC.
PROJECT FINAL COMPLETION: OCTOBER 9, 2019
CONTRACTOR: LAS VEGAS PAVING CORP.
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CALL BEFORE CONSTRUCTION		
BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
	F.A.S.T.	702-432-5300
BEFORE YOU UNDERGROUND	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-8611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2829

REMOVAL KEY NOTES

- 1 REMOVE AND REPLACE AC PAVEMENT PER DETAIL 1 AND 2, SHT. DT1
- 2 REMOVE 8\" PVC WATER
- 3 REMOVE 10\" PVC WATER
- 4 REMOVE 12\" PVC WATER
- 5 REMOVE AND REPLACE AC PATH, INSTALL TACTILE WARNING PANELS PER CCUSD 235 AT INTERSECTIONS
- 6 ABANDON 8\" PVC SS PER DCWSCS 3.18.1(c)
- 7 ABANDON SSMH PER DCWSCS 3.18.2(a)
- 8 REMOVE 8\" PVC SS PER DCWSCS 3.18.1(b)
- 9 REMOVE AND REPLACE 48\" SSMH
- 10 REMOVE AND REPLACE CROSS GUTTER PER CCUSD #229
- 11 PROTECT-IN-PLACE
- 12 REMOVE AND REPLACE 30 INCH ROLL CURB RESIDENTIAL AREA PER CCUSD #217.2.S1

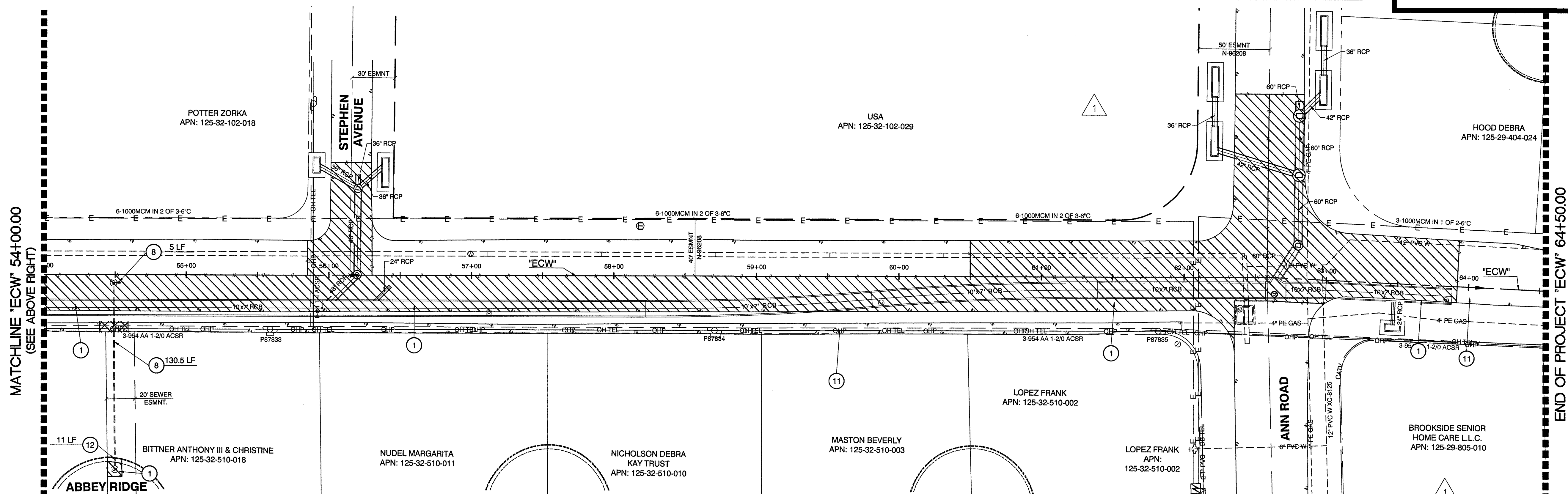
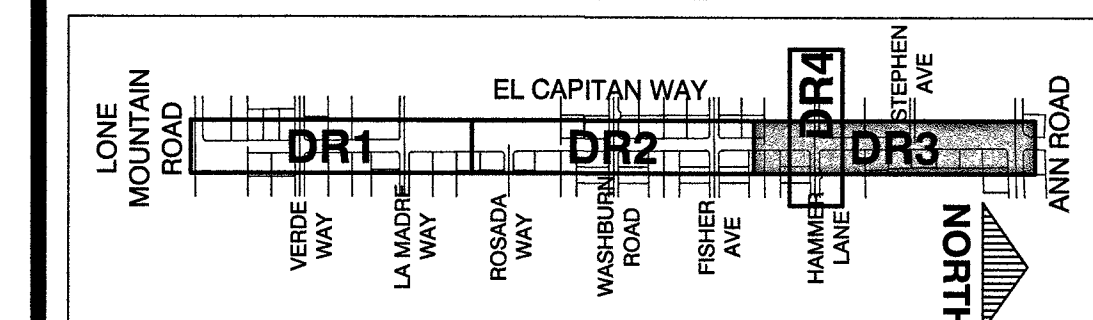
LEGEND

- REMOVE AND REPLACE 4\" AC PAVEMENT
- REMOVE AND REPLACE 2\" AC PAVEMENT

DISCLAIMER NOTE

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

KEY MAP



EL CAPITAN WAY

APPROVED FOR CONSTRUCTION
PREVIOUSLY SIGNED BY MIKE DISHARI ON 3/26/18
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT No. 125005 FIRST APPROVED DATE: 11/21/17

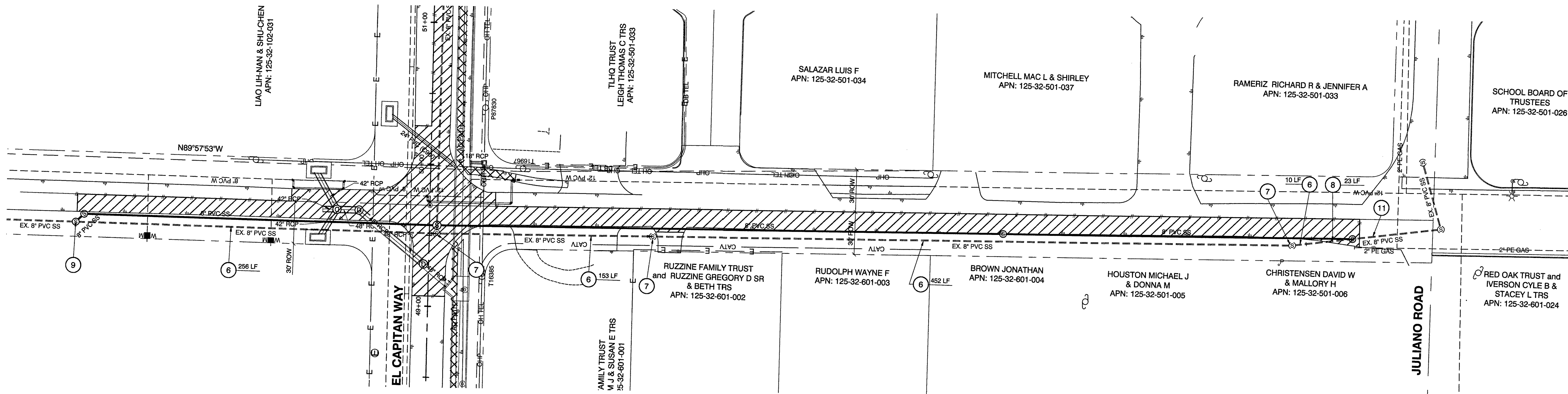
REVISIONS	
NO.	DATE
1	8/21/18
OBTAINED ELM EASEMENT	

PREPARED BY
GCW
ENGINEERS SURVEYORS
100% S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
goverengineering.com

CITY OF LAS VEGAS	
BID# 17-63891	DESIGNED BY: RKB
H# 63891	DRAWN BY: RKB
DATE: 11/14/17	CHECKED BY: SJ
SUBMITTAL STAGE:	100% - FINAL

TITLE
GOWAN NORTH - EL CAPITAN BRANCH
LONE MOUNTAIN ROAD TO ANN ROAD
SHEET
DEMOLITION/REMOVAL PLAN
"ECW" 45+00.00 TO "ECW" 64+50.00

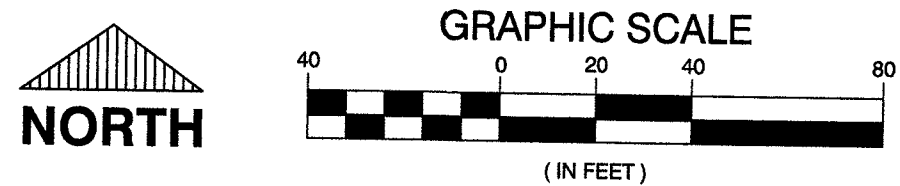
RECORD DRAWINGS
COVER SHEET SEALED
11/14/2017
ENGINEER OF RECORD:
STEPHEN M. JONES
P.E. No. 19638
SHEET
DR3
16 OF 52
DRAWING NO.
327V294



HAMMER LANE

RECORD DRAWINGS
RECORD DRAWINGS COMPLETED: JANUARY 2020
BY GCW, INC.
PROJECT FINAL COMPLETION: OCTOBER 9, 2019
CONTRACTOR: LAS VEGAS PAVING CORP.
CONSTRUCTION MANAGER: DIVERSIFIED CONSULTING SERVICES
THESE DRAWINGS HAVE BEEN ALTERED TO INDICATE
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CONFIRMED PRIOR TO INCLUSION IN SUBSEQUENT PLANS.

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT No. 125005 FIRST APPROVED DATE: 11/21/17



CALL BEFORE CONSTRUCTION		
BEFORE YOU DIG	USA NORTH	811 OR 800-227-2800
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

REMOVAL KEY NOTES

- 1 REMOVE AND REPLACE AC PAVEMENT PER DETAIL 1 AND 2, SHT. DT1
- 2 REMOVE 8" PVC WATER
- 3 REMOVE 10" PVC WATER
- 4 REMOVE 12" PVC WATER
- 5 REMOVE AND REPLACE AC PATH, INSTALL TACTILE WARNING PANELS PER CCUSD 225 AT INTERSECTIONS
- 6 ABANDON 8" PVC SS PER DCSWCS 3.18.1(d)
- 7 ABANDON SSMH PER DCSWCS 3.18.2(a)
- 8 REMOVE 8" PVC SS PER DCSWCS 3.18.1(b)
- 9 REMOVE AND REPLACE 48" SSMH
- 10 REMOVE AND REPLACE CROSS GUTTER PER CCUSD #229
- 11 PROTECT-IN-PLACE
- 12 REMOVE AND REPLACE 30 INCH ROLL CURB RESIDENTIAL AREA PER CCUSD #217.2.S1

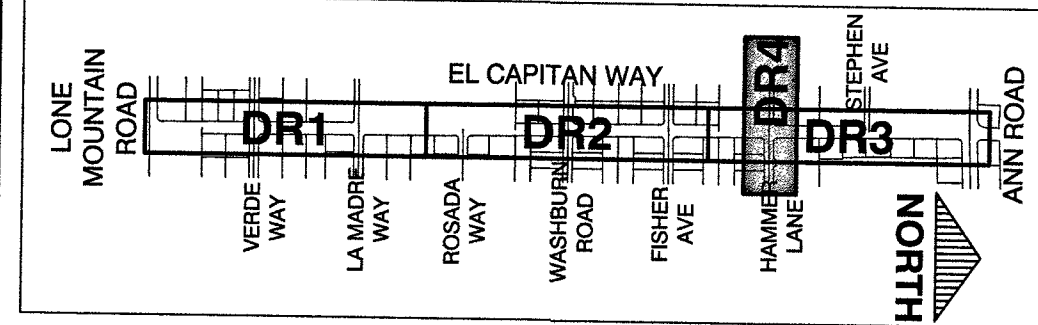
LEGEND

- REMOVE AND REPLACE 4" AC PAVEMENT
- REMOVE AND REPLACE 2" AC PAVEMENT

DISCLAIMER NOTE

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KEY MAP



PREPARED BY

GCW

ENGINEERS & SURVEYORS

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

PREPARED FOR

CITY OF LAS VEGAS

BID# 17-63691

DESIGNED BY: RKG

DRAWN BY: RKG

CHECKED BY: SJ

DATE: 11/14/17

SUBMITTAL STAGE: 100% - FINAL

TITLE

**GOWAN NORTH - EL CAPITAN BRANCH
LONE MOUNTAIN ROAD TO ANN ROAD**

SHEET

DEMOLITION/REMOVAL PLAN
HAMMER LANE

RECORD DRAWINGS

COVER SHEET SEALED 11/14/2017

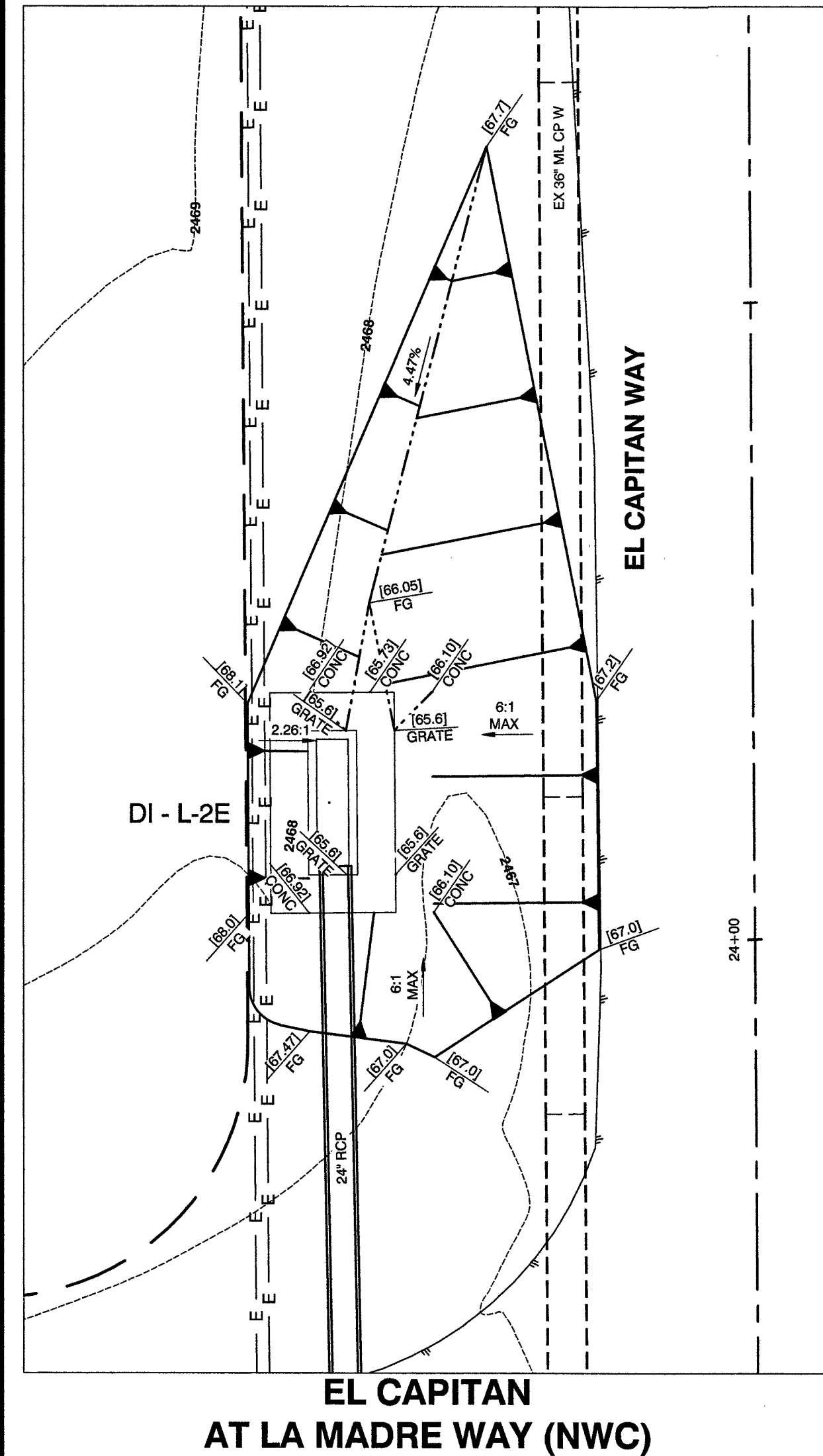
ENGINEER OF RECORD:
STEPHEN M. JONES
P.E. No. 19638

SHEET

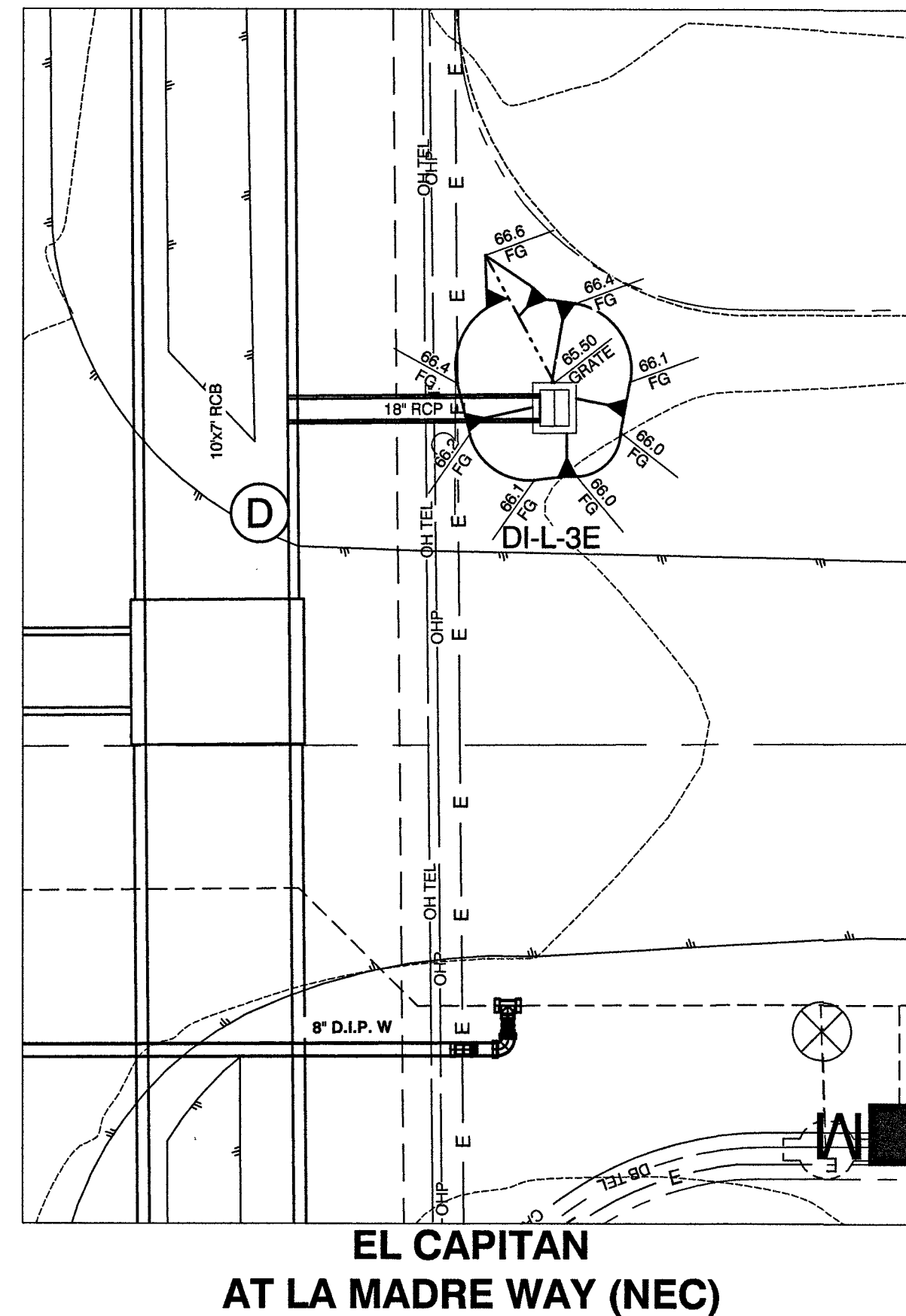
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17 OF 52

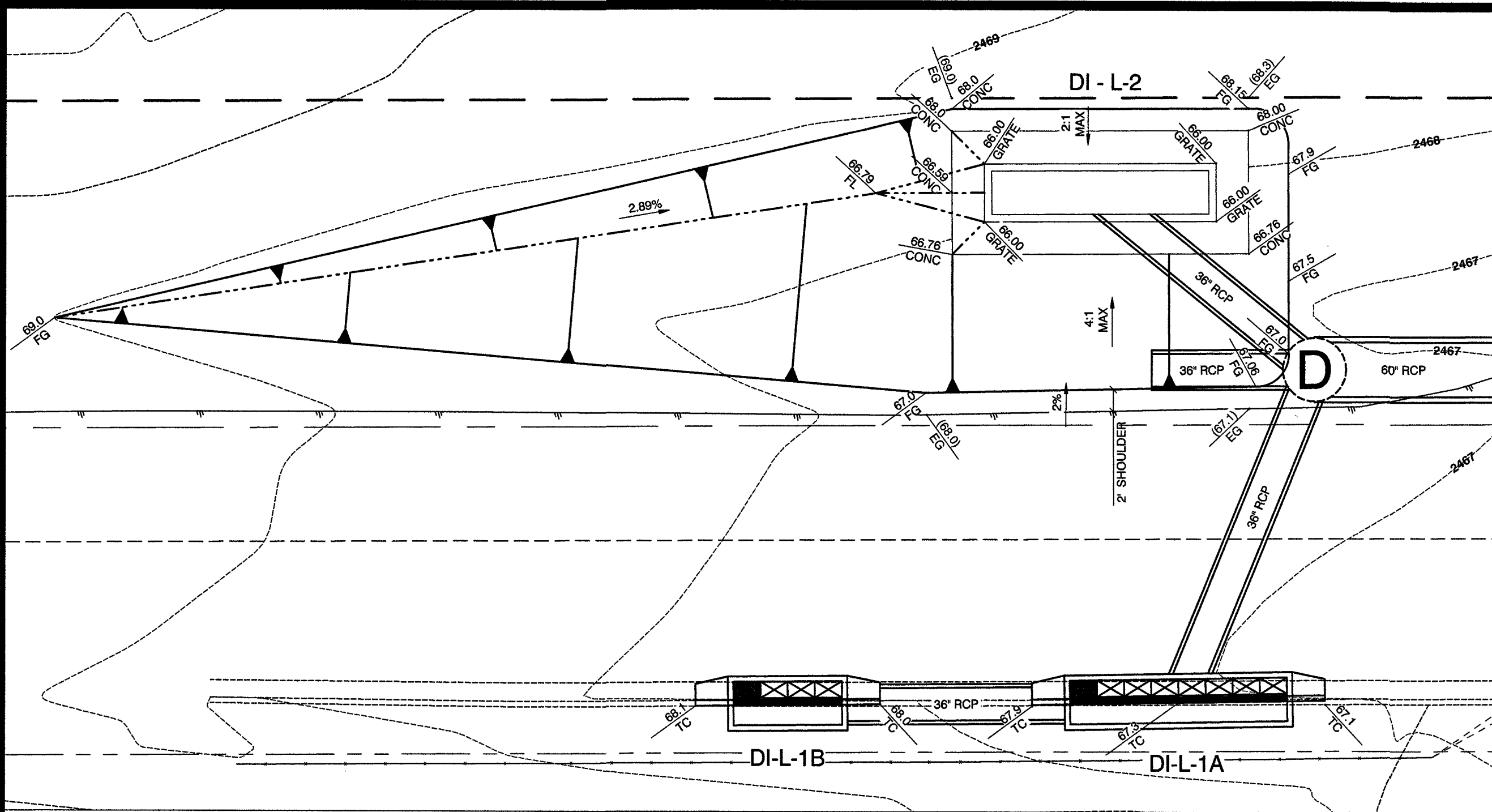
DRAWING NO.
327V294



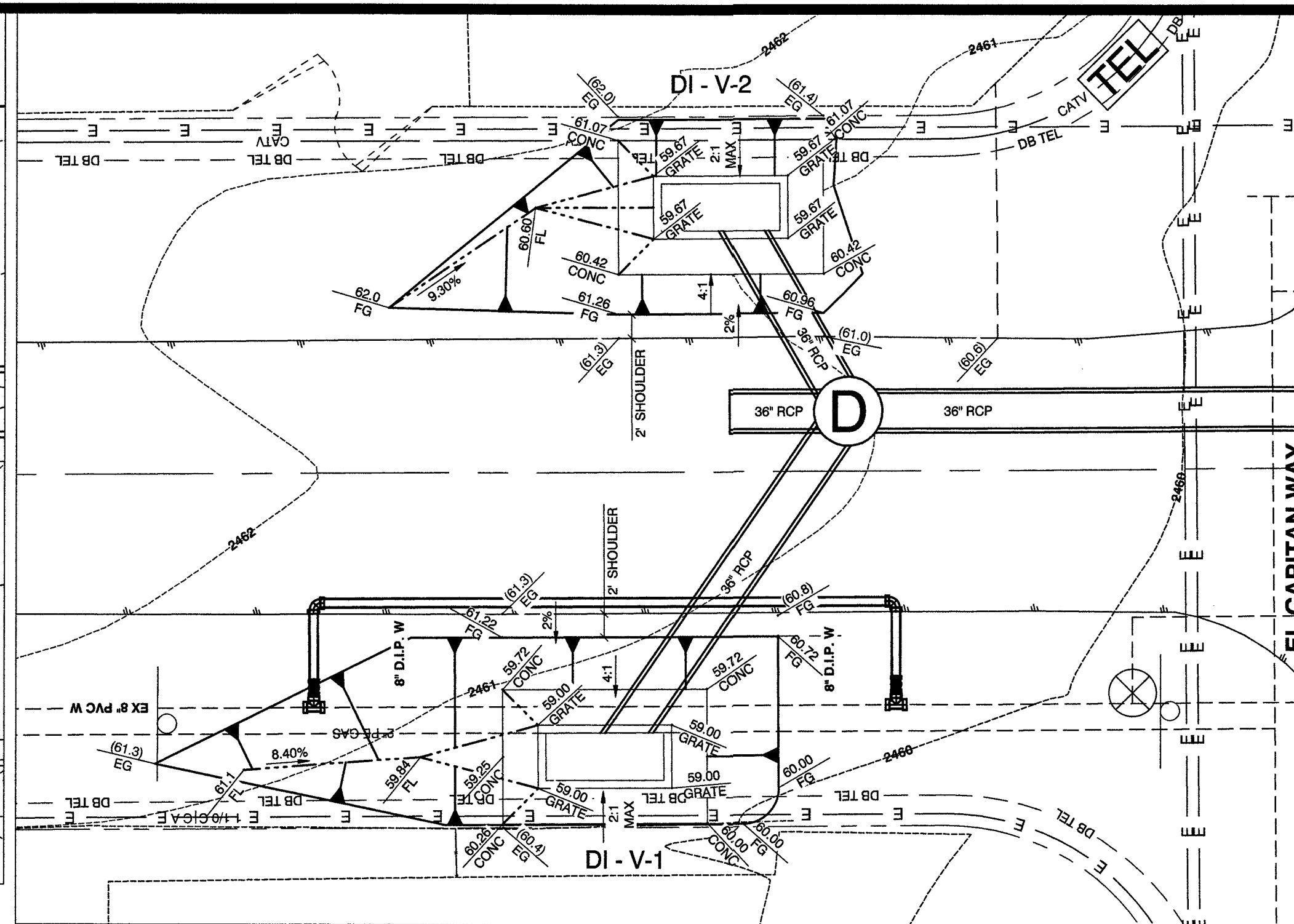
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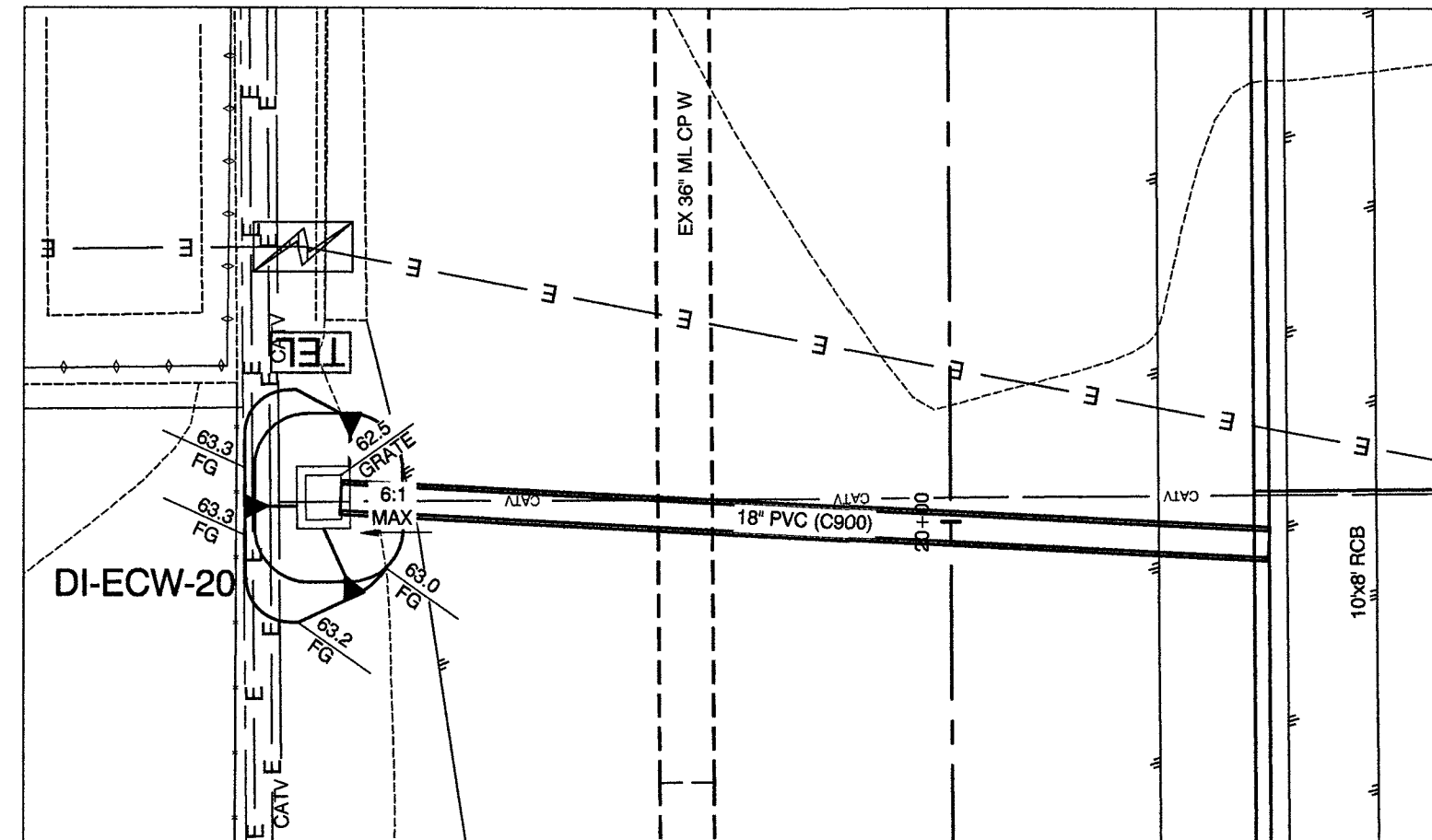
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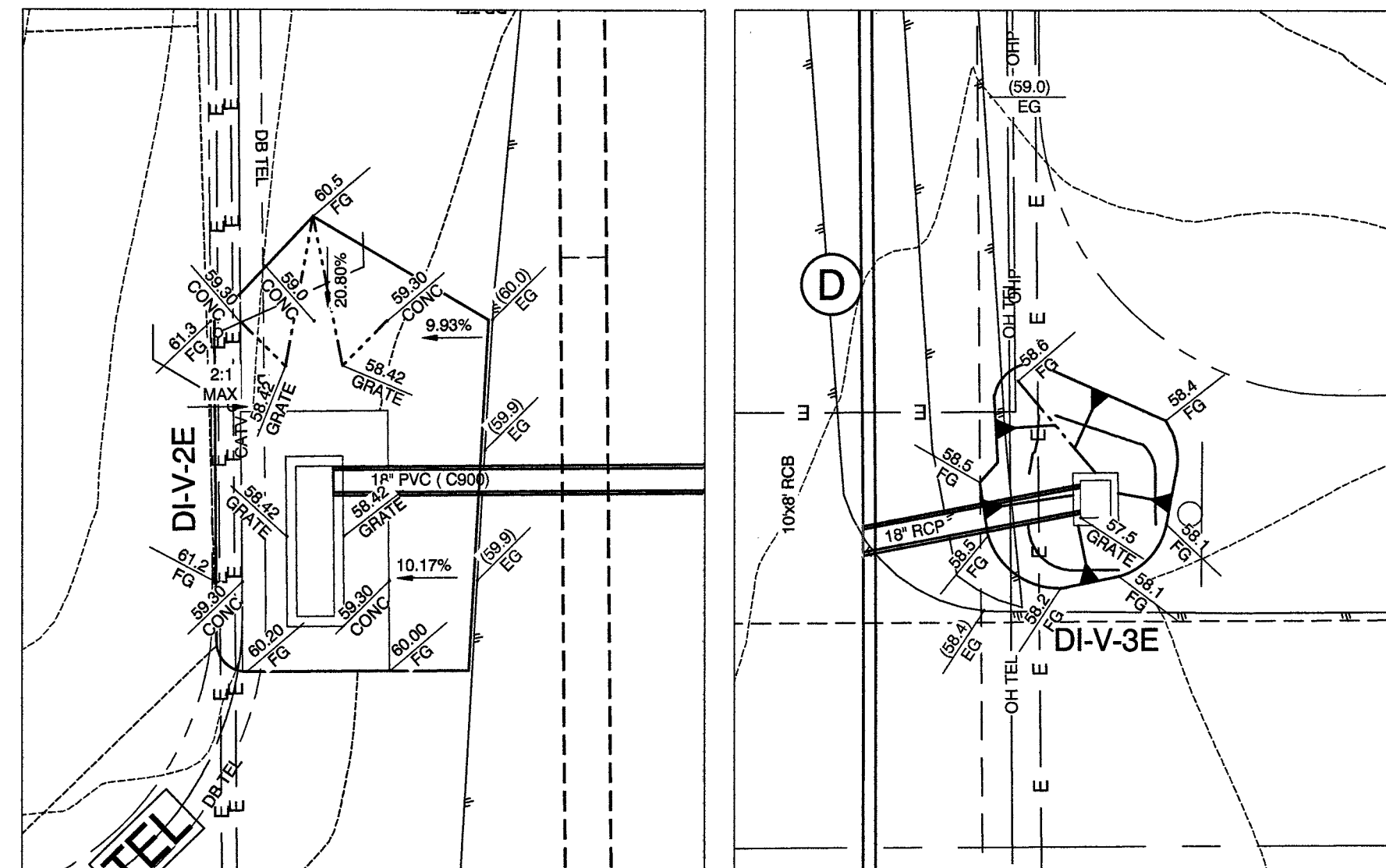
LA MADRE WAY
SEE SHEET SD2



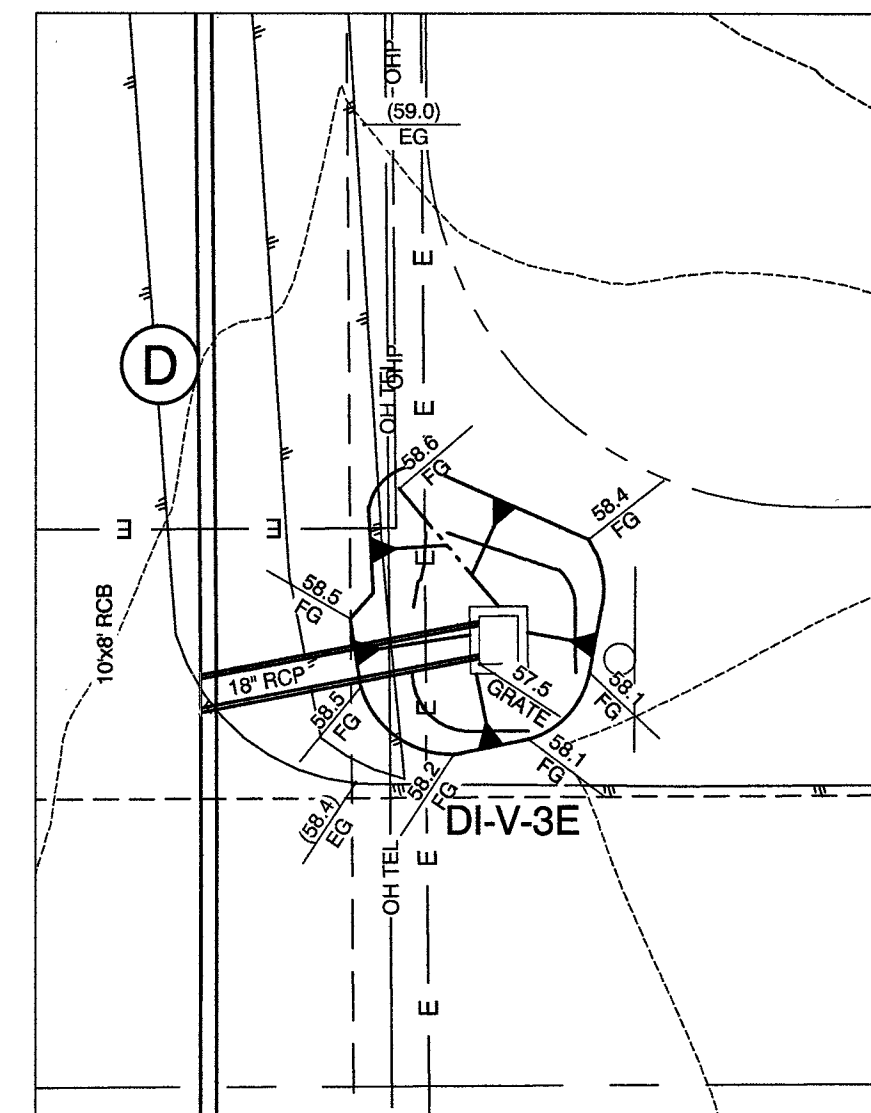
VERDE WAY
SEE SHEET SD1



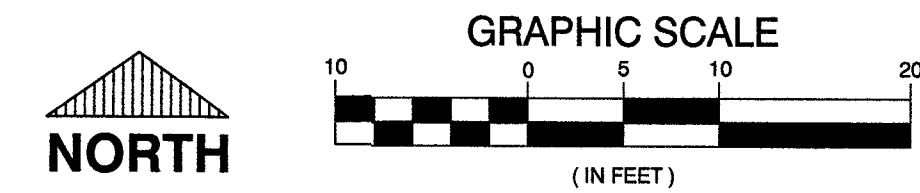
EL CAPITAN "ECW" - 20+01.61
SEE SHEET SD2



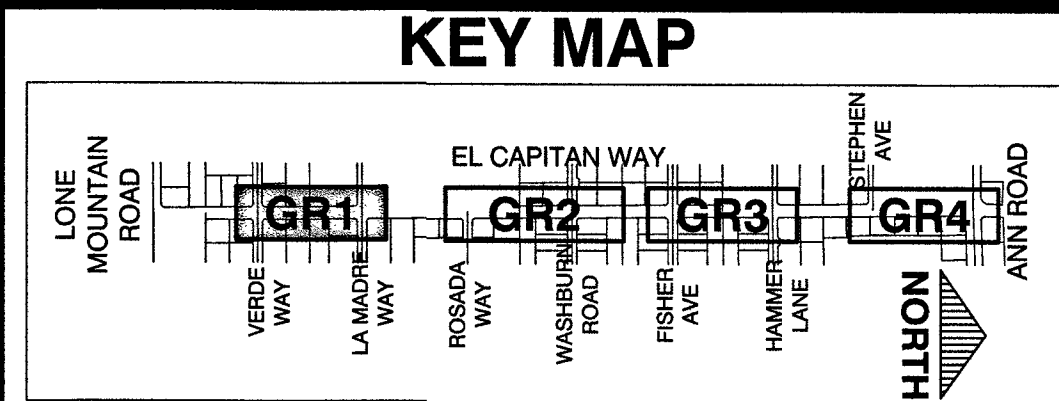
EL CAPITAN
AT VERDE WAY (NWC)



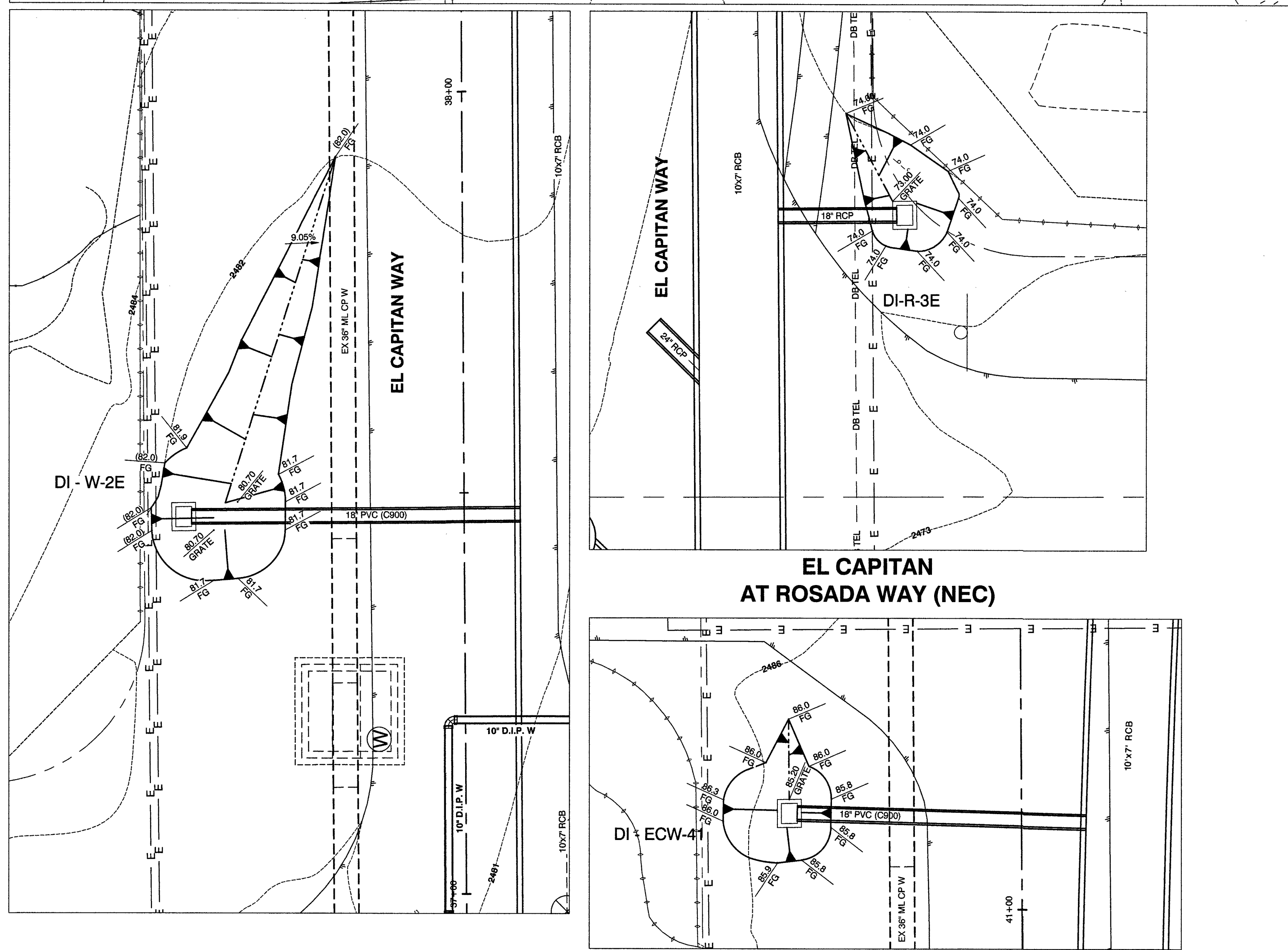
EL CAPITAN AT
VERDE WAY (NEC)



CALL BEFORE CONSTRUCTION		
BEFORE YOU DIG	USA NORTH	811 OR 800-227-2800
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-6300
BEFORE YOU OVERHEAD	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-228-6611
	NV ENERGY	702-227-2829



PREPARED BY		CITY OF LAS VEGAS		DESIGNED BY: RKB		DRAWN BY: RKB		CHECKED BY: SJ	
H# 63891		DATE: 11/14/17		SUBMITTAL STAGE: 100% - FINAL		TITLE: GOWAN NORTH - EL CAPITAN BRANCH LONE MOUNTAIN ROAD TO ANN ROAD		SHEET: GR1	
PROJECT NO. 1555 S RAINBOW BLVD. LAS VEGAS, NV 89146 T: 702.804.2000 F: 702.804.2299		ENGINEERS' SURVEYORS gowengineering.com		OBTAINED BLM EASEMENT		NO. DATE		REVISIONS	
RECORD DRAWINGS		COVER SHEET SEALED 11/14/2017		ENGINEER OF RECORD: STEPHEN M. JONES P.E. No. 19638		SHEET: GR1		18 OF 52	
DRAWING NO. 327V294									



EL CAPITAN "ECW" 41+12.10
SEE SHEET SD4



Map of the El Capitan Way area showing the locations of four proposed gas stations (GR1, GR2, GR3, GR4) and surrounding streets. The map includes a north arrow pointing upwards.

Streets shown (from left to right):

- LONE MOUNTAIN ROAD
- VERDE WAY
- LA MADREE WAY
- ROSADA WAY
- WASHBURN ROAD
- FISHER AVE
- HAMMER LANE
- STEPHEN AVE
- ANN ROAD

Proposed Gas Stations (GR1, GR2, GR3, GR4) are marked along El Capitan Way.

PREPARED BY

GCV

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

ENGINEERS \ SURVEYORS

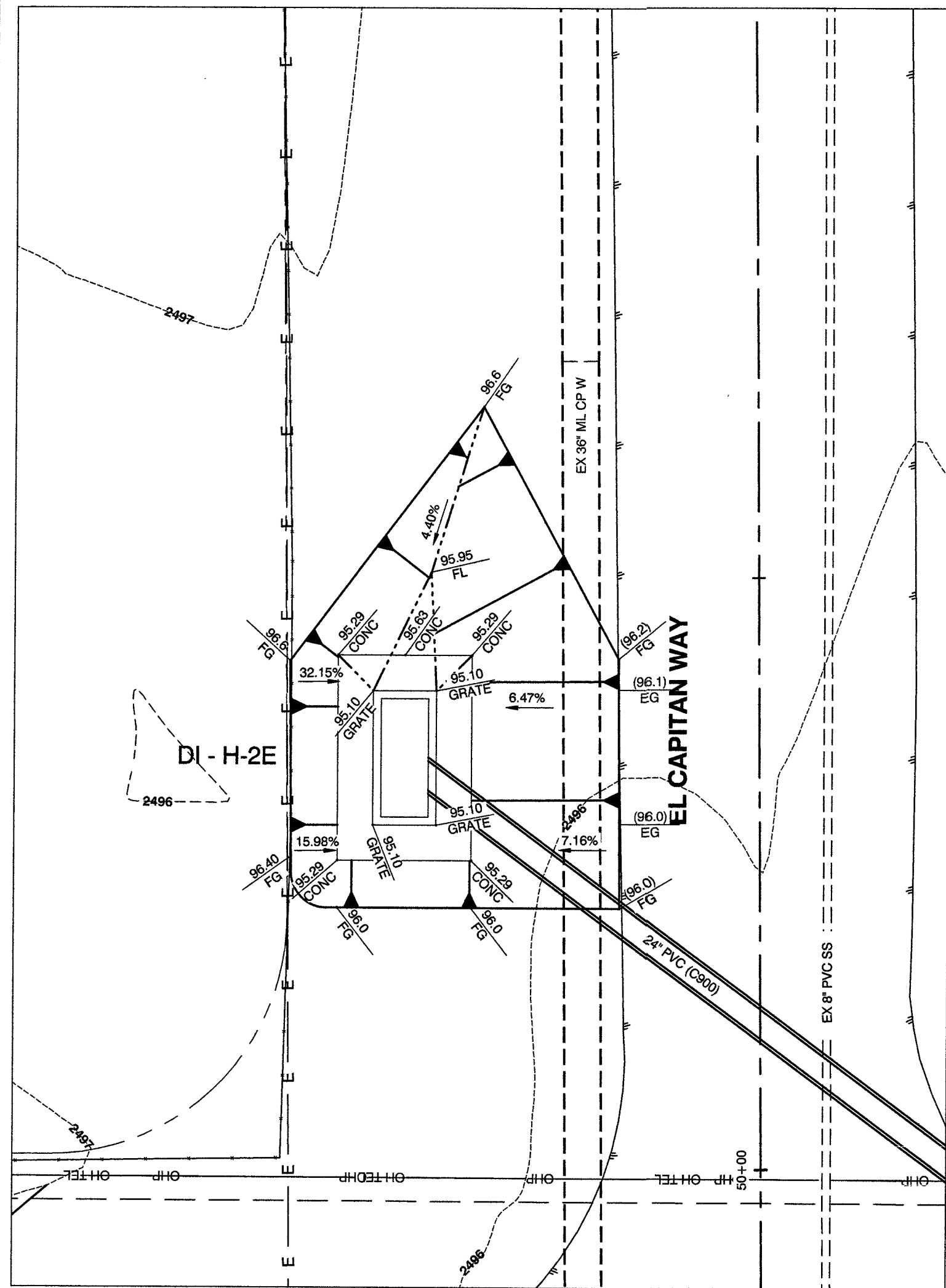
PREPARED BY

TITLE	GGOWAN NORTH - EL CAPITAN BRANCH LONE MOUNTAIN ROAD TO ANN ROAD
SHEET	GRADING PLAN ROSADA WAY AND WASHBURN ROAD

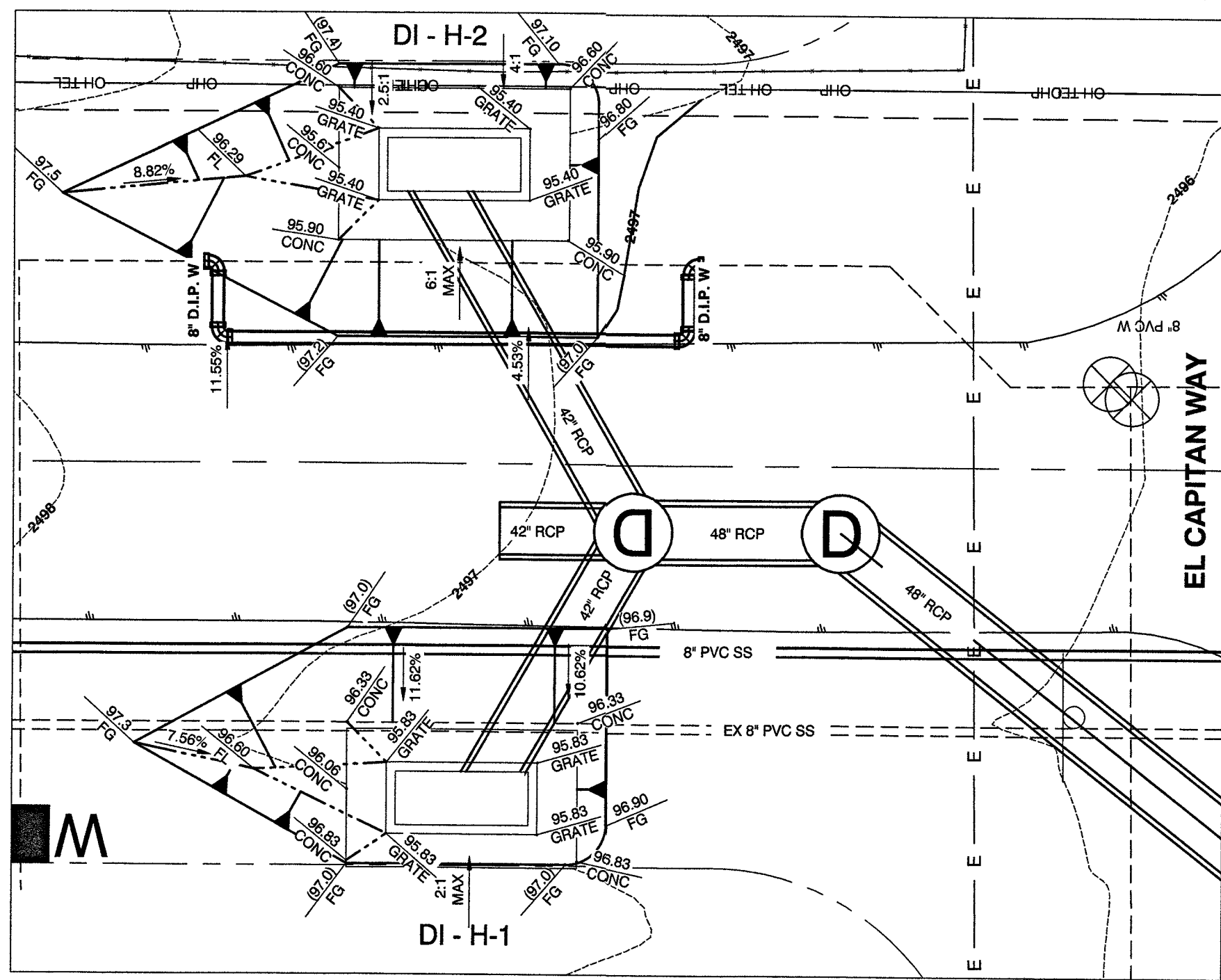
COVER SHEET SEALED
11/14/2017

SHEET
GR2
19 OF 52
DRAWING NO.
327V294

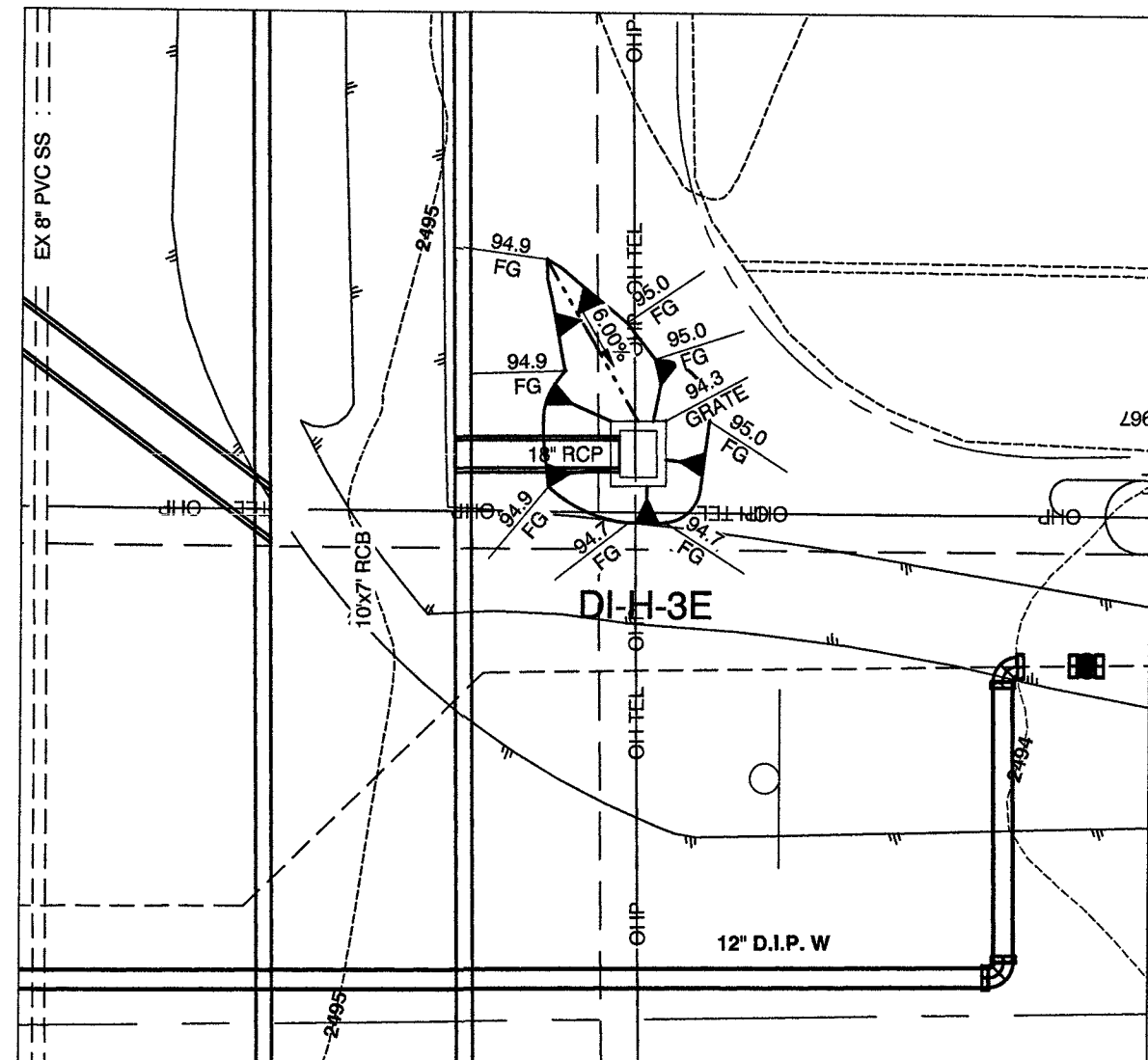
RECORD DRAWINGS
RECORD DRAWINGS COMPLETED: JANUARY 2020
BY GCW, INC.
PROJECT FINAL COMPLETION: OCTOBER 9, 2019
CONTRACTOR: LAS VEGAS PAVING CORP.
CONSTRUCTION MANAGER: DIVERSIFIED CONSULTING SERVICES
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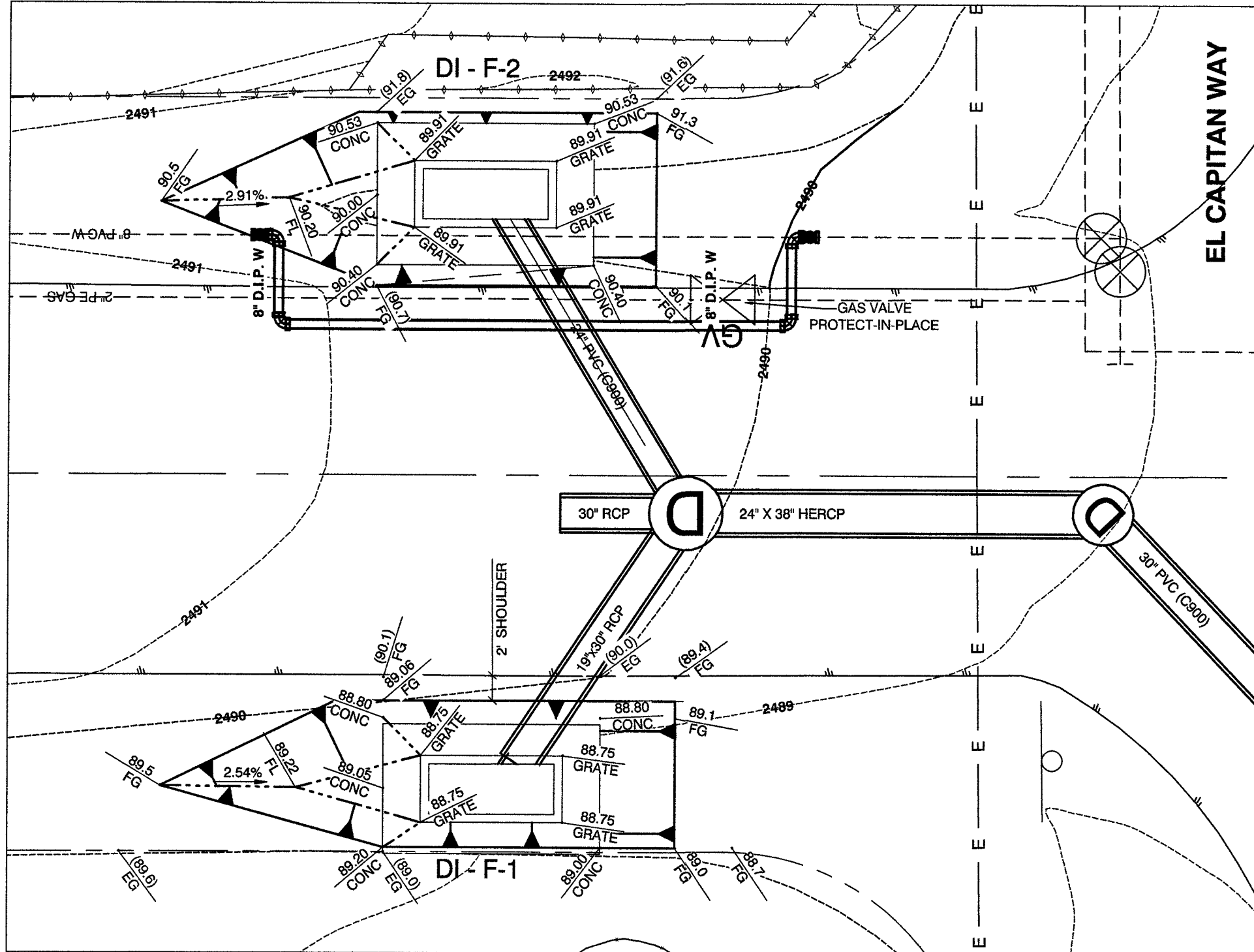
EL CAPITAN
AT HAMMER LANE (NWC)



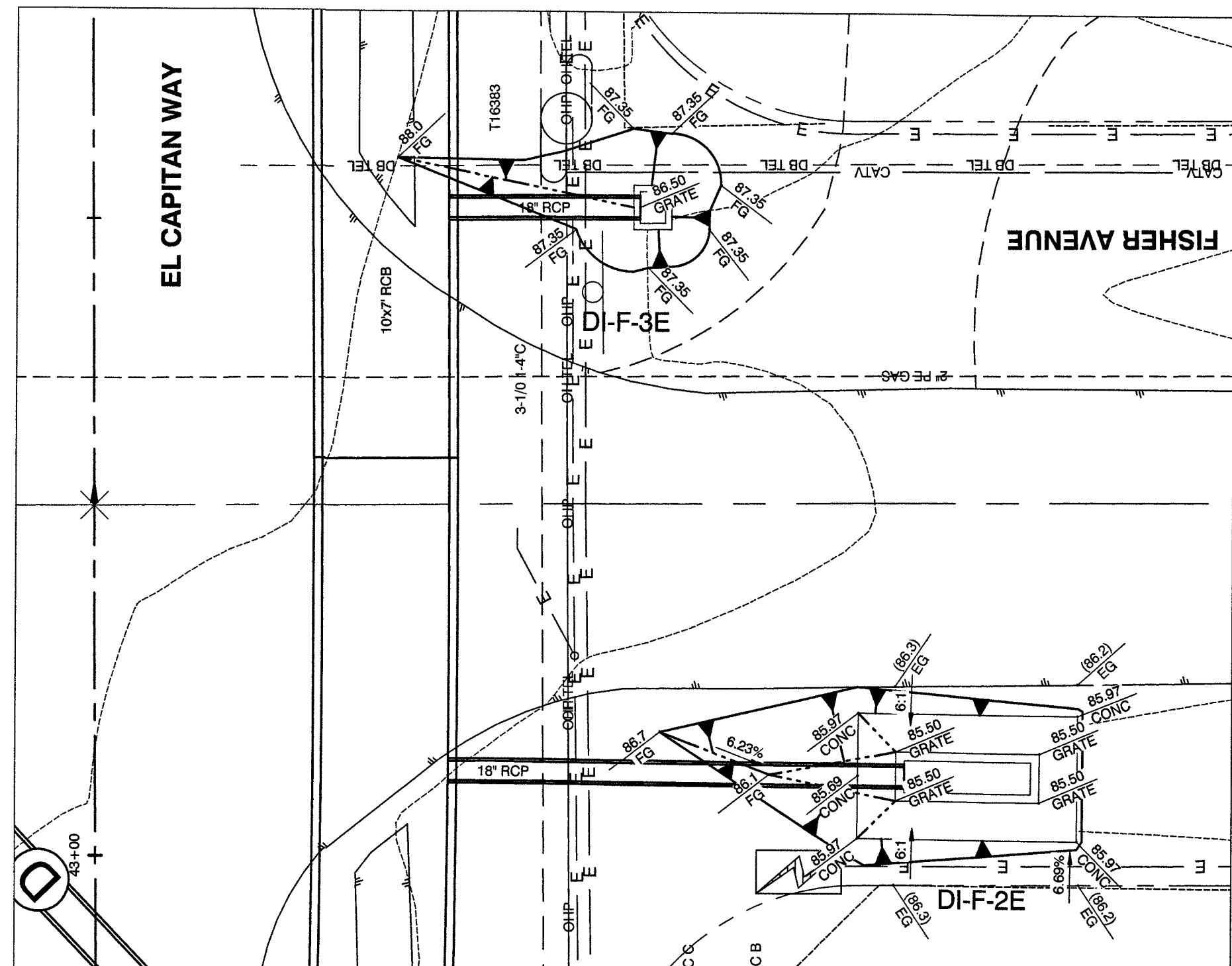
HAMMER LANE
SEE SHEET SD5



EL CAPITAN
AT HAMMER LANE (NEC)



FISHER AVENUE
SEE SHEET SD4

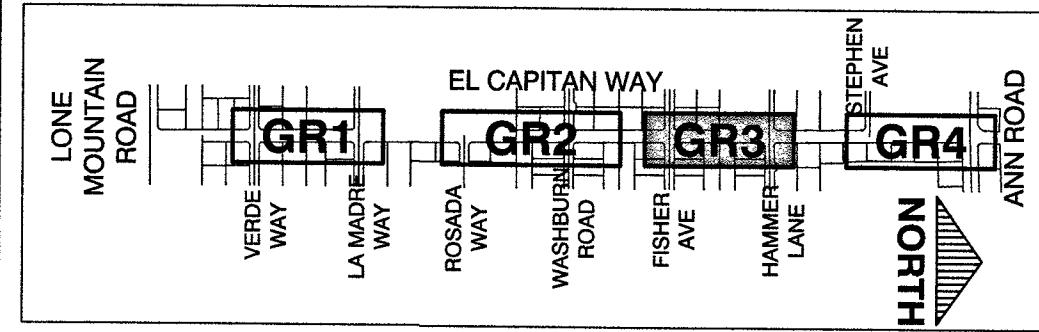


EL CAPITAN
AT FISHER AVENUE (NEC & SEC)



CALL BEFORE CONSTRUCTION		
BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
BEFORE YOU OVERHEAD	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
	NV ENERGY	702-227-2929

KEY MAP



PREPARED BY

GCW
ENGINEERS SURVEYORS
1555 S. RAINBOW BLVD.
SUITE 200
LAS VEGAS, NV 89146
T: 702.804.2200
F: 702.804.2299
gcwengineering.com

CITY OF LAS VEGAS

BID# 17-63691
DESIGNED BY: RKB
DRAWN BY: RKB
CHECKED BY: SJ

GOWAN NORTH - EL CAPITAN BRANCH
LONE MOUNTAIN ROAD TO ANN ROAD

GRADING PLAN
HAMMER LANE AND FISHER AVENUE

RECORD
DRAWINGS

COVER SHEET SEALED
11/14/2017

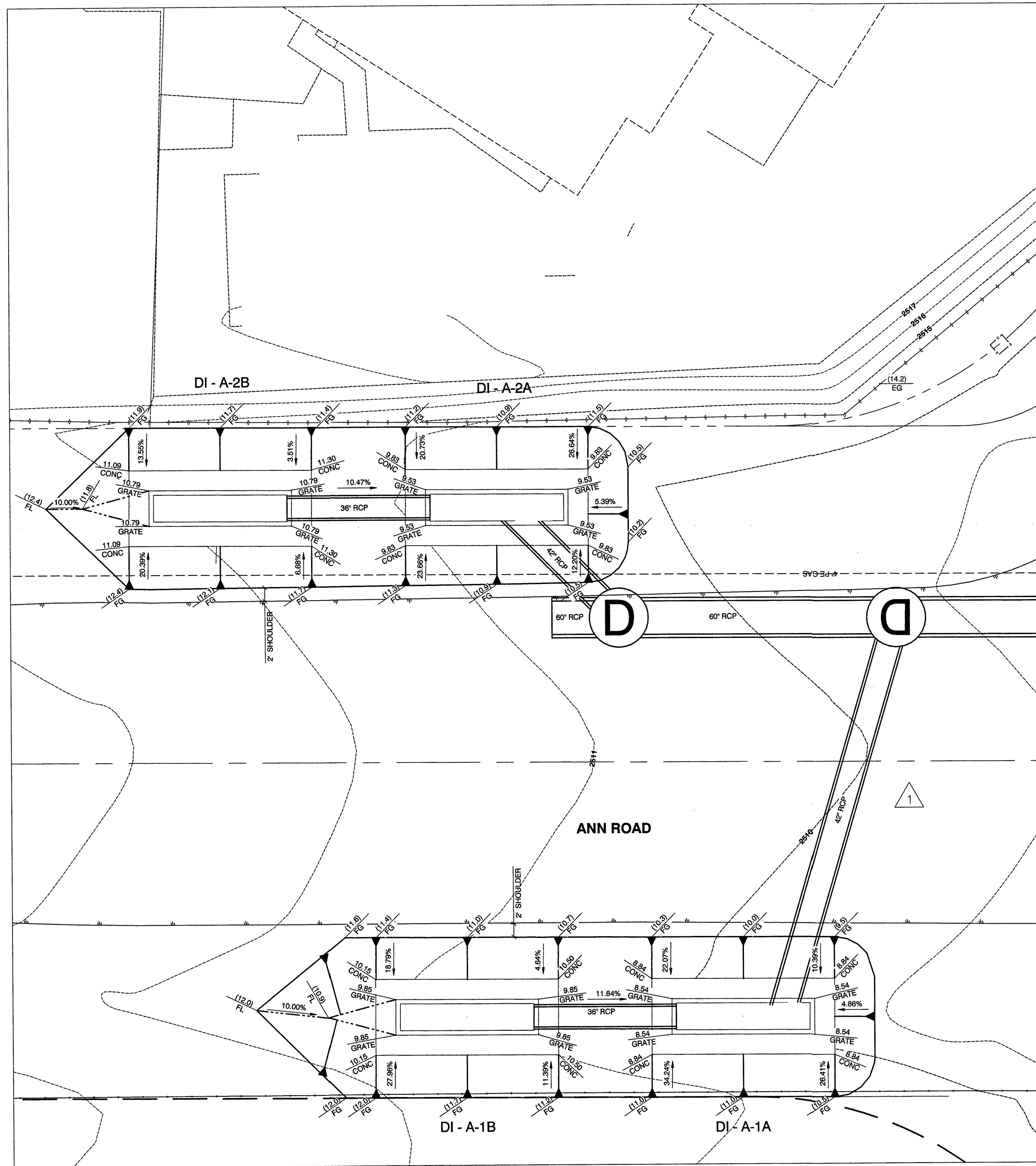
ENGINEER OF RECORD:
STEPHEN M. JONES
P.E. No. 19638

SHEET

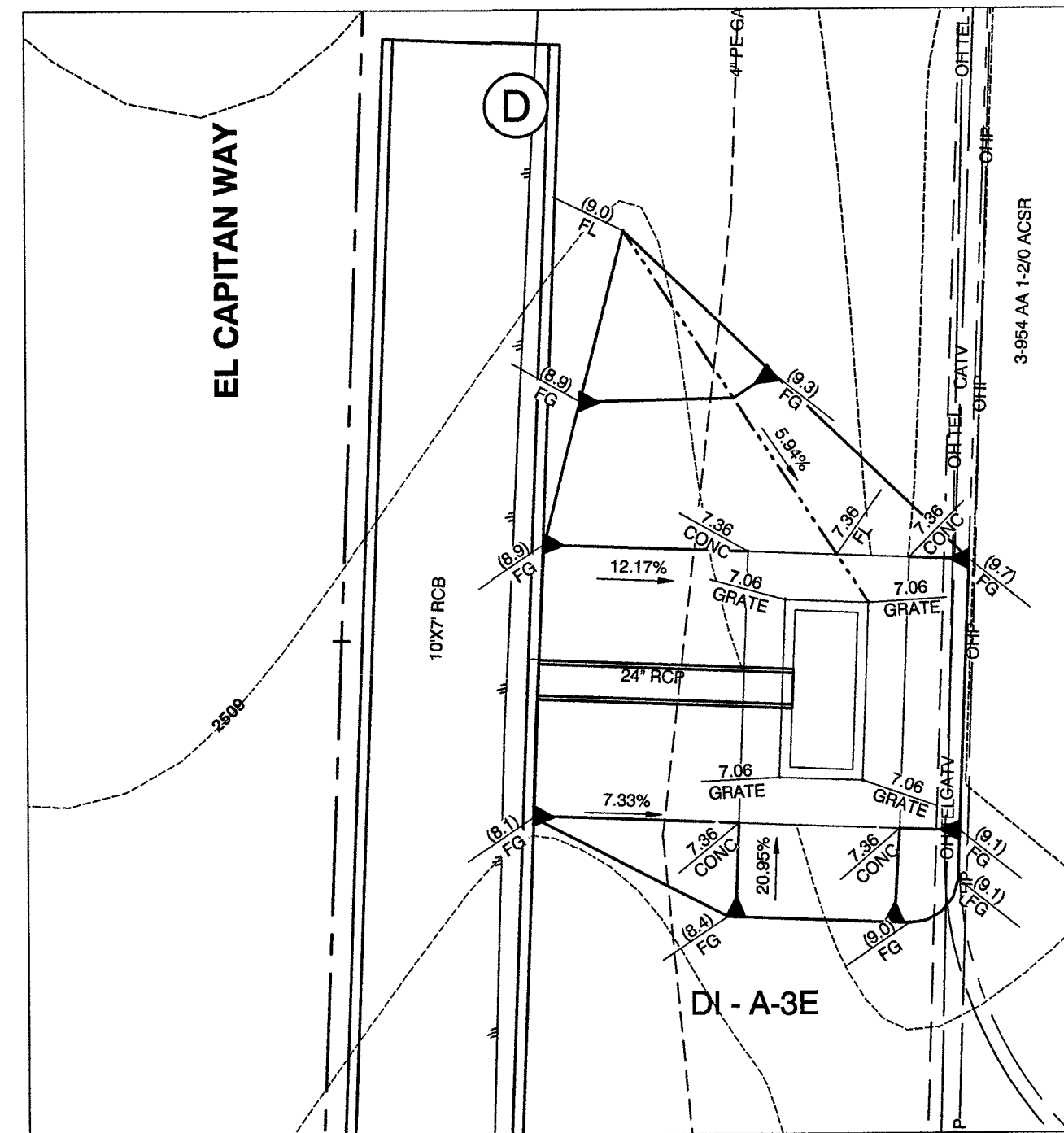
GR3
20 OF 52

DRAWING NO.
327V294

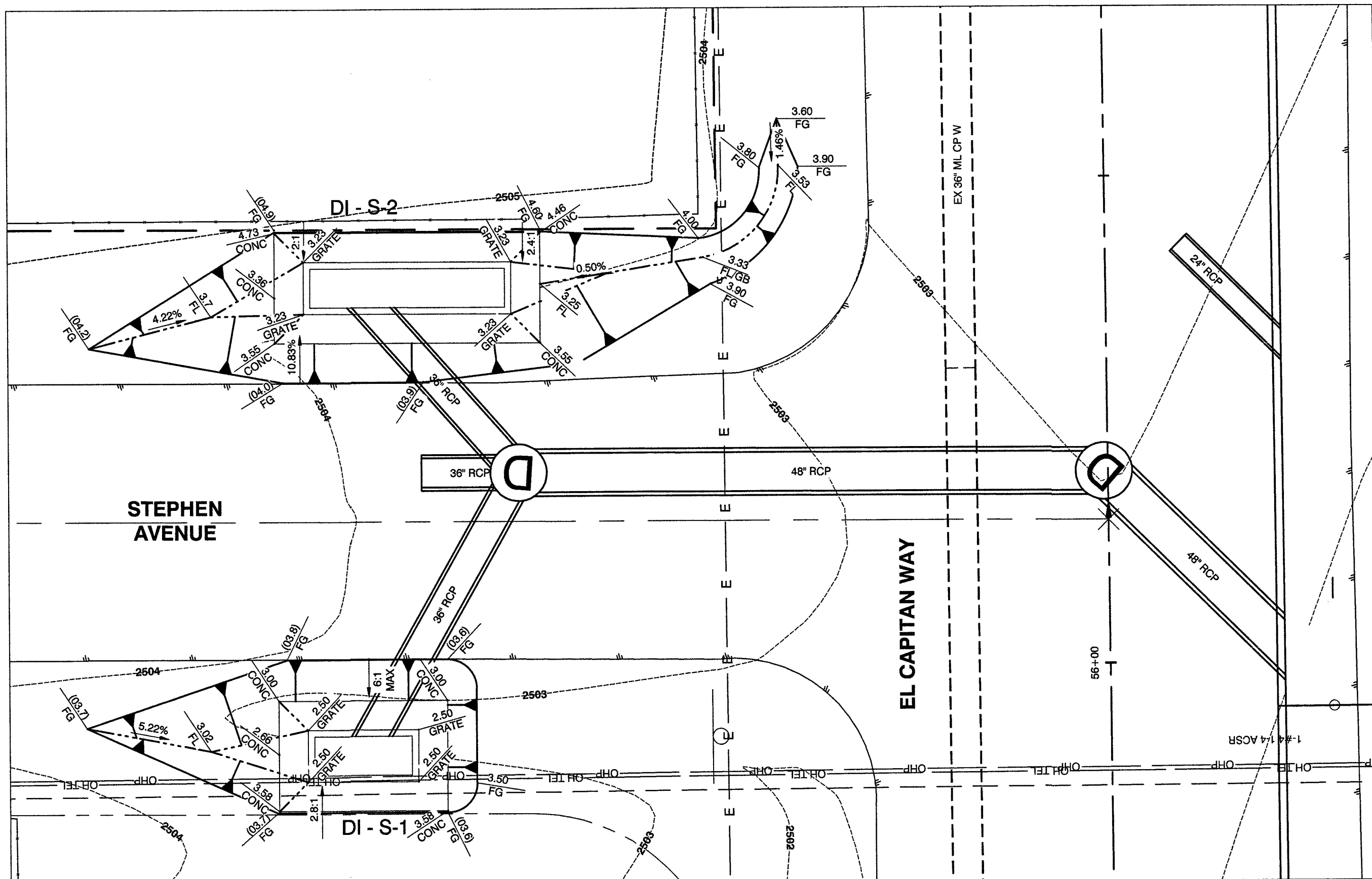
RECORD DRAWINGS
RECORD DRAWINGS COMPLETED: JANUARY 2020
BY GCW, INC.
PROJECT FINAL COMPLETION: OCTOBER 9, 2019
CONTRACTOR: LAS VEGAS PAVING CORP.
CONSTRUCTION MANAGER: DIVERSIFIED CONSULTING SERVICES
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ANN ROAD
SEE SHEET SD7



**EL CAPITAN
AT ANN (NEC)**

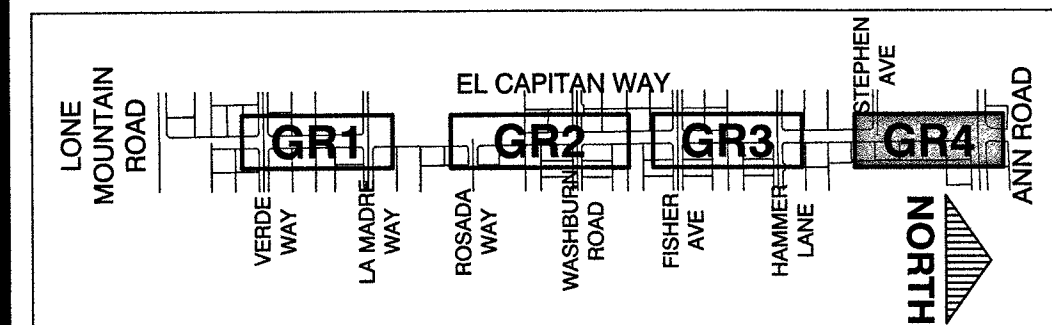


STEPHEN AVENUE
SEE SHEET SD6



CALL BEFORE CONSTRUCTION		
BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

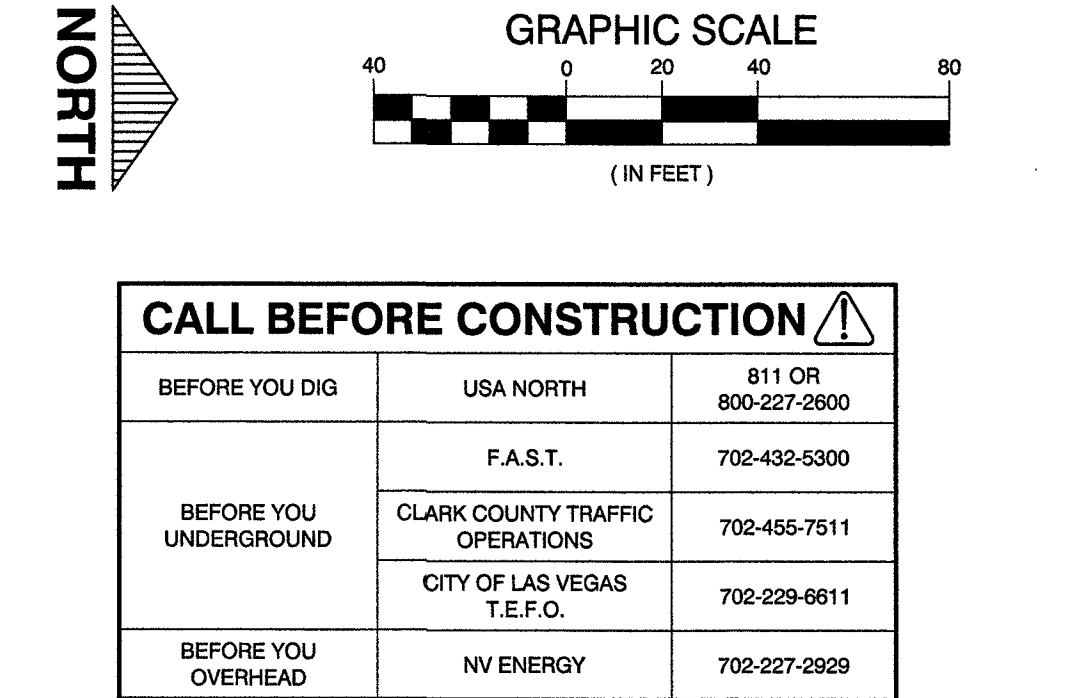
KEY MAP



RECORD DRAWINGS
RECORD DRAWINGS COMPLETED: JANUARY 2020
BY GCW, INC.
PROJECT FINAL COMPLETION: OCTOBER 9, 2019
CONTRACTOR: LAS VEGAS PAVING CORP.
CONSTRUCTION MANAGER: DIVERSIFIED CONSULTING SERVICES
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PREPARED BY		CITY OF LAS VEGAS		DESIGNED BY: RKG		DRAWN BY: RKG		CHECKED BY: SJ	
H# 63691		DATE: 11/14/17		SUBMITTAL STAGE: 100% - FINAL		ENGINEER OF RECORD: STEPHEN M. JONES P.E. No. 19638		REVISIONS	
PROJECT: GOWAN NORTH - EL CAPITAN BRANCH LONE MOUNTAIN ROAD TO ANN ROAD		SHEET		GRADING PLAN		STEPHEN AVENUE AND ANN ROAD		NO. DATE	
RECORD DRAWINGS		COVER SHEET SEALED 11/14/2017		ENGINEER OF RECORD: STEPHEN M. JONES P.E. No. 19638		SHEET		OBTAINED ELM EASEMENT	
DRAWING NO. 327V294		21 OF 52		GR4					

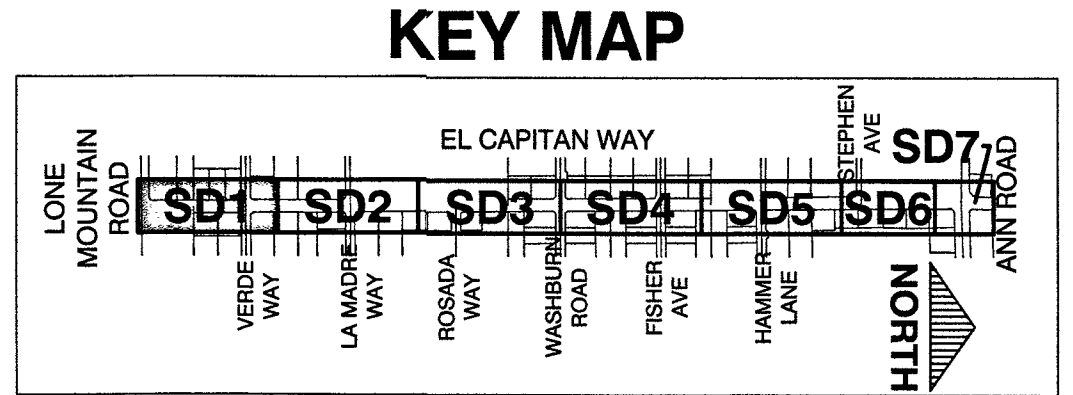
GCW 1555 S. RAINBOW BLVD. LAS VEGAS, NV 89146 P: 702.884.2200 F: 702.884.2201
ENGINEERS SURVEYORS gcwengineering.com



- # CONSTRUCTION KEY NOTES
-
- 1 REMOVE END CAP AND CONNECT TO EXISTING 12x5' RCB PER DETAIL 1, SHT. S72
 - 2 CONSTRUCT TRANSITION STRUCTURE #1 PER DETAIL 1, SHT. S72
 - 3 CONSTRUCT 10x8' RCB PER DETAIL 1, SHT. DT1
 - 4 CONSTRUCT JUNCTION STRUCTURE #1 PER DETAIL 1, SHT. S73
 - 5 CONSTRUCT 10x7' RCB PER DETAIL 1, SHT. DT1
 - 6 CONSTRUCT JUNCTION STRUCTURE #2 PER DETAIL 1, SHT. S74
 - 7 CONSTRUCT 10x4' SPECIAL DROP INLET PER DETAIL 1, SHT. S76 AND USD #421 AND DETAIL 4, SHT. DT1
 - 8 CONSTRUCT 20x4' SPECIAL DROP INLET PER DETAIL 1, SHT. S76 AND USD #421 AND DETAIL 4, SHT. DT1
 - 9 CONSTRUCT NDOT 28' DROP INLET PER NDOT R-4.22, NDOT R-4.27 AND USD #421 AND DETAIL 4, SHT. DT1
 - 10 CONSTRUCT JUNCTION STRUCTURE #3 PER DETAIL 1, SHT. S75
 - 11 CONSTRUCT 5x3' RCB PER DETAIL 1, SHT. DT1
 - 12 CONSTRUCT 60" RCP PER DETAIL 2, SHT. DT1. CLASS III UNLESS OTHERWISE NOTED IN PROFILE
 - 13 CONSTRUCT 54" RCP PER DETAIL 2, SHT. DT1 CLASS III UNLESS OTHERWISE NOTED IN PROFILE
 - 14 CONSTRUCT 48" RCP PER DETAIL 2, SHT. DT1 CLASS III UNLESS OTHERWISE NOTED IN PROFILE
 - 15 CONSTRUCT 36" RCP PER DETAIL 2, SHT. DT1 CLASS III UNLESS OTHERWISE NOTED IN PROFILE
 - 16 CONSTRUCT 24" RCP PER DETAIL 2, SHT. DT1 CLASS III UNLESS OTHERWISE NOTED IN PROFILE
 - 17 CONSTRUCT 18" RCP PER DETAIL 2, SHT. DT1 CLASS III UNLESS OTHERWISE NOTED IN PROFILE
 - 18 CONSTRUCT 36" PVC (C900) PER DETAIL 2, SHT. DT1
 - 19 CONSTRUCT 24" PVC (C900) PER DETAIL 2, SHT. DT1
 - 20 CONSTRUCT 18" PVC (C900) PER DETAIL 2, SHT. DT1
 - 21 CONSTRUCT 48" ACCESS MANHOLE PER DETAIL 3, SHT. DT1 WITH 30" FRAME AND COVER PER USD #408
 - 22 CONSTRUCT TYPE III MANHOLE PER USD #405 WITH 30" FRAME AND COVER PER USD #408
 - 23 CONSTRUCT TYPE III MANHOLE PER USD #406 WITH 30" FRAME AND COVER PER USD #408
 - 24 CONSTRUCT TYPE "CM2" DROP INLET PER USD #412.1 AND USD #421 (LENGTH PER PLAN)
 - 25 INSTALL RCB PLUG, PER DETAIL 2, SHT. S73
 - 26 INSTALL 60" RCP PLUG, PER DETAIL 2, SHT. S74
 - 27 NOT USED
 - 28 INSTALL 48" RCP PLUG, PER DETAIL 2, SHT. S74
 - 29 INSTALL 36" RCP PLUG, PER DETAIL 2, SHT. S74
 - 30 CONSTRUCT 8" PVC SEWER LINE PER DCSWCS PLATES 17 AND 18
 - 31 CONSTRUCT 12" DIP WATER LINE PER UDACS PLATES 17 AND 18
 - 32 CONSTRUCT 10" DIP WATER LINE PER UDACS PLATES 17 AND 18
 - 33 CONSTRUCT 8" DIP WATER LINE PER UDACS PLATES 17 AND 18
 - 34 CONSTRUCT HALF STREET CROSS GUTTER PER USD #229
 - 35 CONSTRUCT 8" PVC WATER LINE PER UDACS
 - 36 CONSTRUCT 30" RCP PER DETAIL 2, SHT. DT1 CLASS III UNLESS OTHERWISE NOTED IN PROFILE
 - 37 CONSTRUCT 30" RCP (C900) PER DETAIL 2, SHT. DT1
 - 38 CONSTRUCT 10x5.5' SPECIAL DROP INLET PER DETAIL 1, SHT. S76 AND USD #421 AND PER DETAIL 4, SHT. DT1
 - 39 INSTALL 30" RCP PLUG PER DETAIL 2, SHT. S74
 - 40 INSTALL 42" RCP PLUG PER DETAIL 2, SHT. S74
 - 41 INSTALL JUNCTION STRUCTURE #4, PER DETAIL 2, SHT. S75
 - 42 INSTALL JUNCTION STRUCTURE #5, PER DETAIL 3, SHT. S75
 - 43 INSTALL CONCRETE COLLAR PER DETAIL 8, SHT. DT1
 - 44 CONSTRUCT 42" RCP PER DETAIL 2, SHT. DT1 CLASS III UNLESS OTHERWISE NOTED IN PROFILE
 - 45 INSTALL 24" RCP PLUG, PER DETAIL 2, SHT. S74
 - 46 NOT USED
 - 47 CONSTRUCT 24x38" HERCP PER DETAIL 2, SHT. DT1 CLASS III UNLESS OTHERWISE NOTED IN PROFILE
 - 48 CONSTRUCT 19x30" HERCP PER DETAIL 2, SHT. DT1 CLASS III UNLESS OTHERWISE NOTED IN PROFILE

DISCLAIMER NOTE

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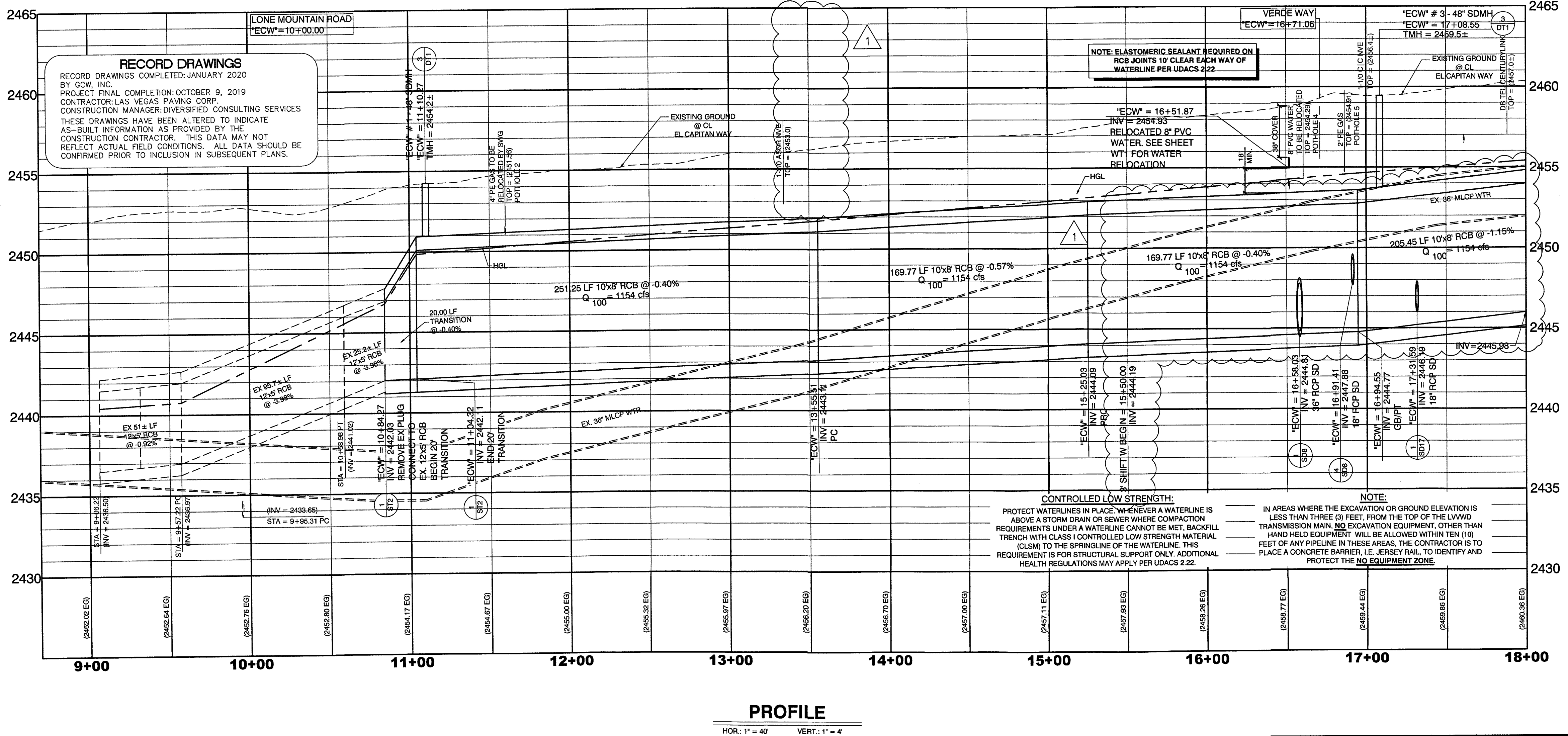


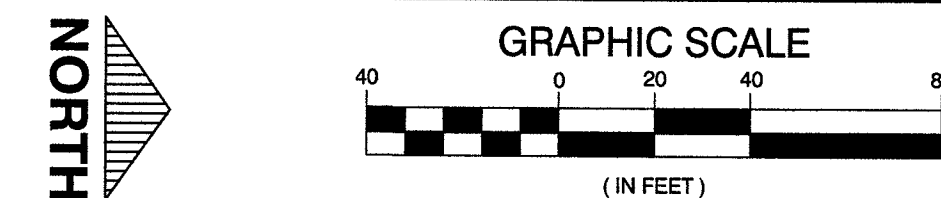
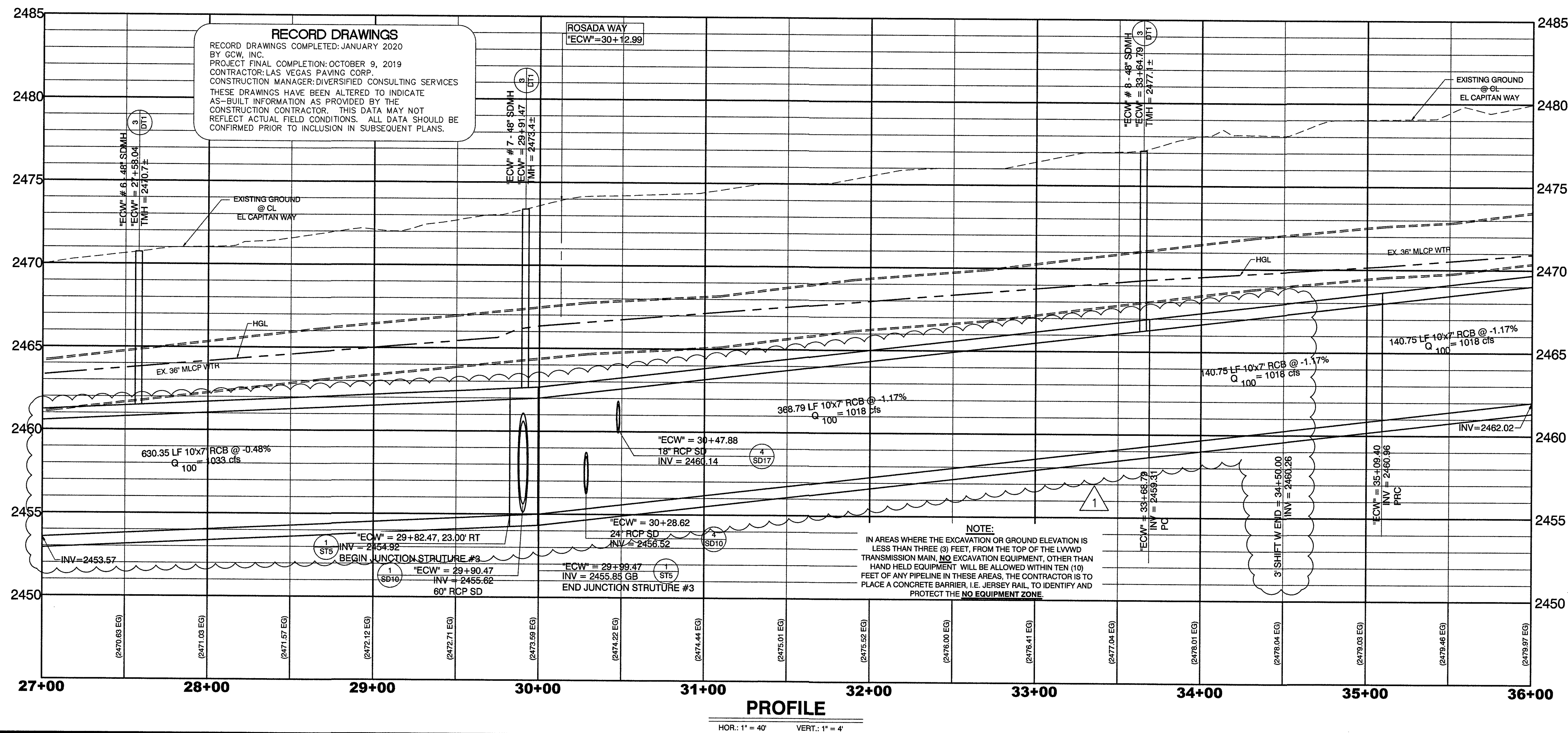
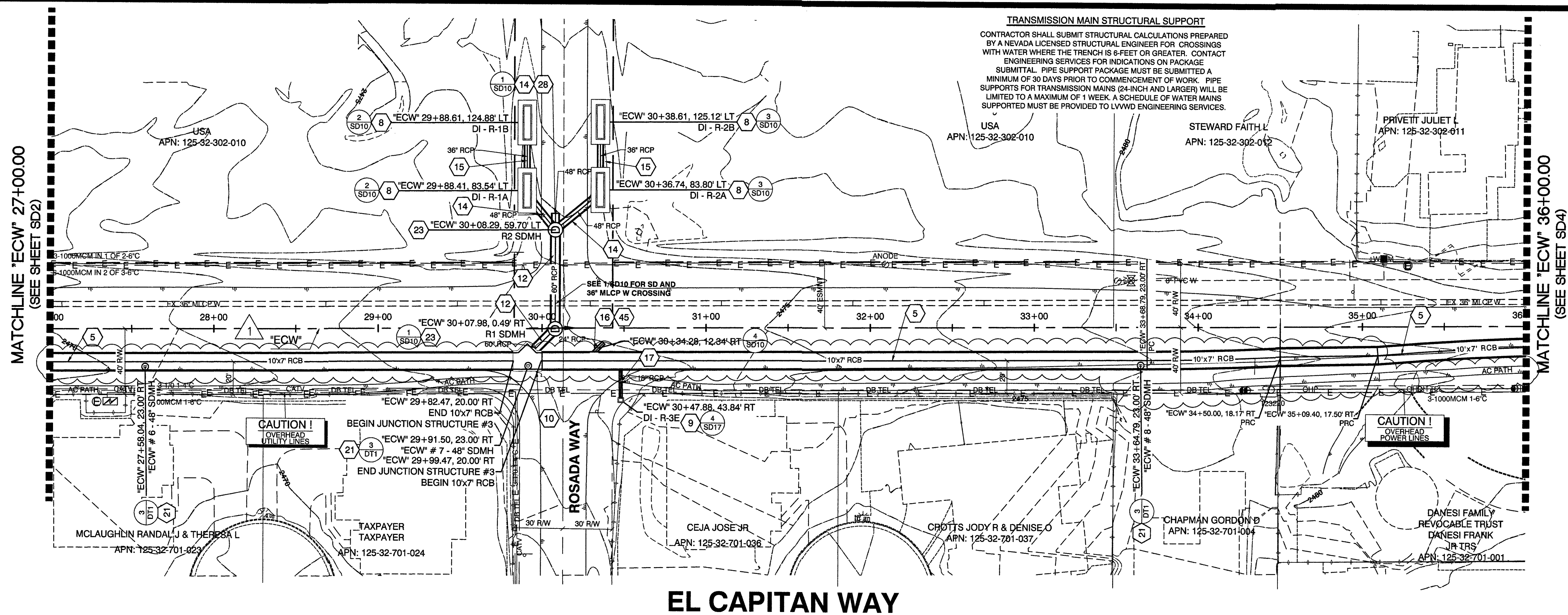
APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT No. 125005 FIRST APPROVED DATE: 11/21/17

RECORD DRAWINGS COVER SHEET SEALED 11/14/2017 ENGINEER OF RECORD: STEPHEN M. JONES P.E. No. 19638 SHEET		PLAN AND PROFILE "ECW" 9 + 00.00 TO "ECW" 18 + 00.00	
TITLE GOWAN NORTH - EL CAPITAN BRANCH LONE MOUNTAIN ROAD TO ANN ROAD		SHEET	
H# 63691 DATE: 11/14/17 SUBMITTAL STAGE: 100% - FINAL		BID# 17-63691 DESIGNED BY: RKG DRAWN BY: RKG CHECKED BY: SJ	
CITY OF LAS VEGAS		ENGINEERS' SURVEYORS GCW' 1555 S. RAINBOW BLVD. LAS VEGAS, NV 89146 T: 702.804.2000 F: 702.804.2289 gowensingm.com	
PREPARED FOR		PREPARED BY	
NO.		DATE	
REVISIONS		FINAL AS-BUILT'S	





CALL BEFORE CONSTRUCTION		
BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
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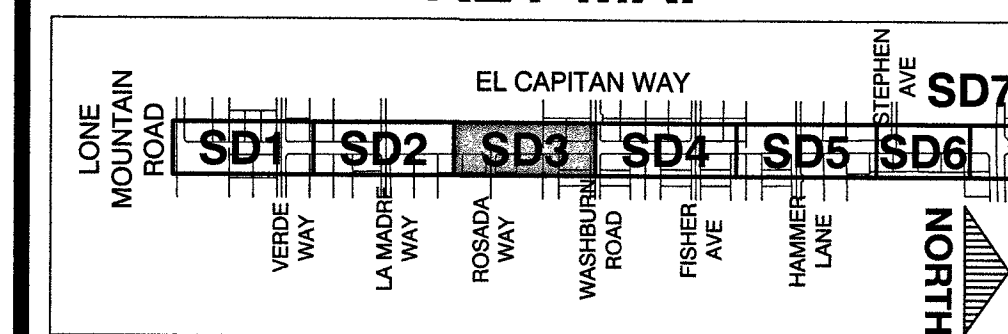
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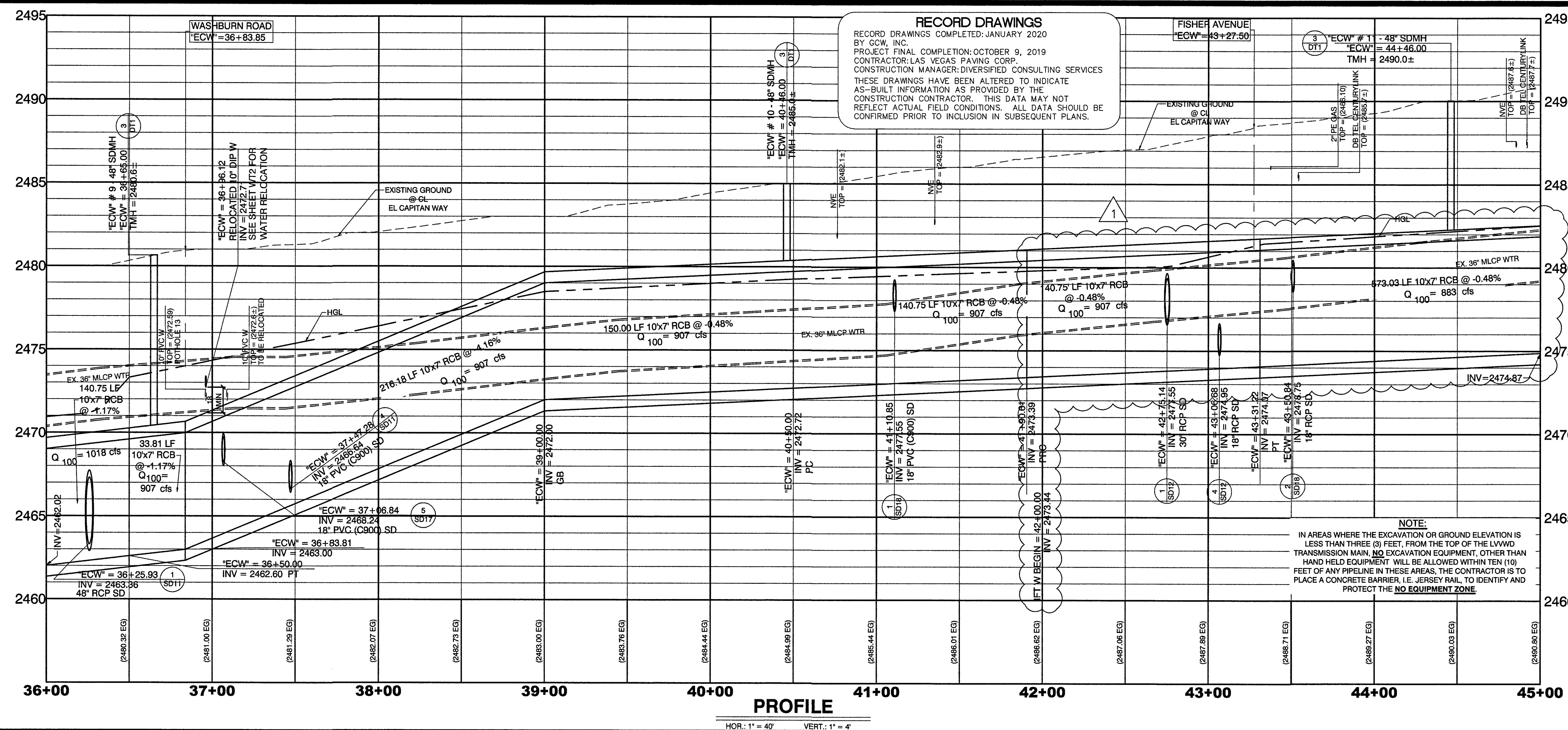
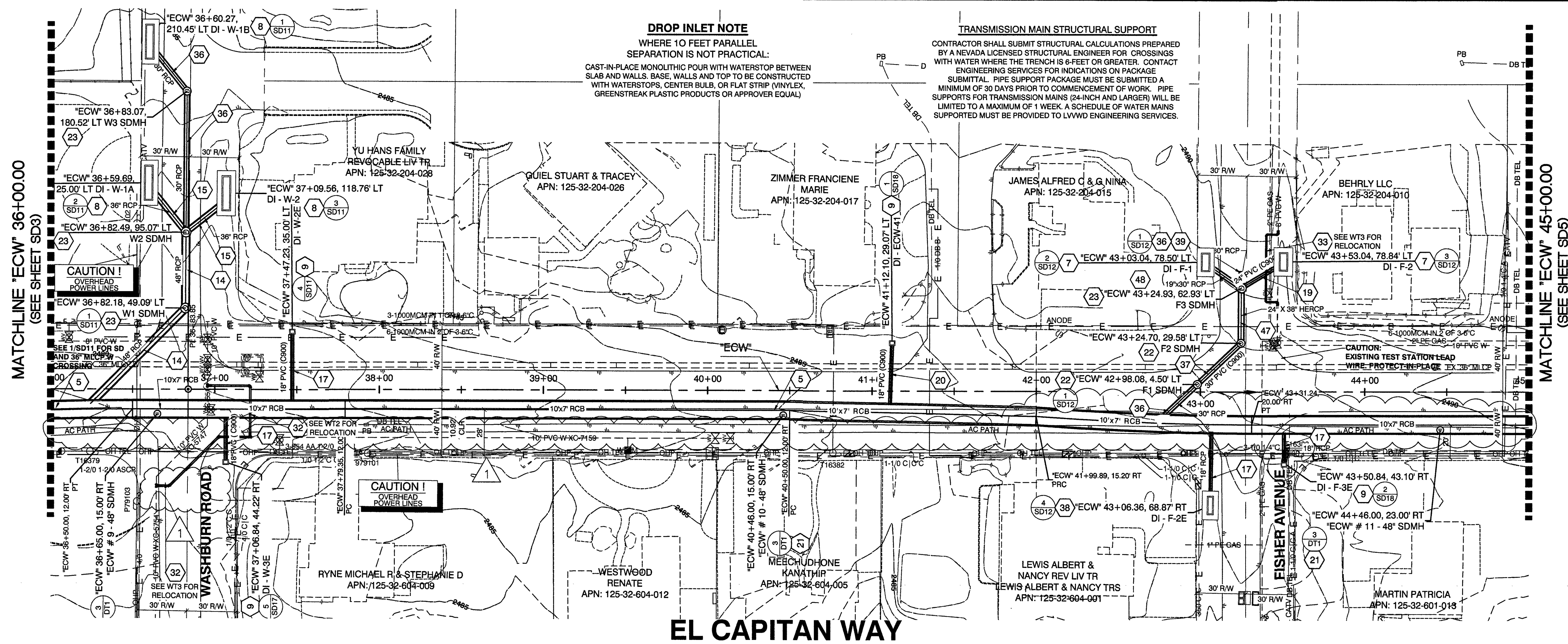
APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT No. 125005 FIRST APPROVED DATE: 11/21/17

PREPARED BY
GCW
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
F: 702.804.2299
ENGINEERS\ SURVEYORS gowengineering.com

CITY OF LAS VEGAS
BID# 17-63691
DESIGNED BY: RKB
DRAWN BY: RKB
CHECKED BY: SJ
DATE: 11/14/17
SUBMITTAL STAGE: 100% - FINAL

GOWAN NORTH - EL CAPITAN BRANCH
LONE MOUNTAIN ROAD TO ANN ROAD
PLAN AND PROFILE
"ECW" 27+00.00 TO "ECW" 36+00.00

RECORD DRAWINGS
COVER SHEET SEALED 11/14/2017
ENGINEER OF RECORD: STEPHEN M. JONES
P.E. No. 19638
SHEET
SD3
25 OF 52
DRAWING NO. 327V294



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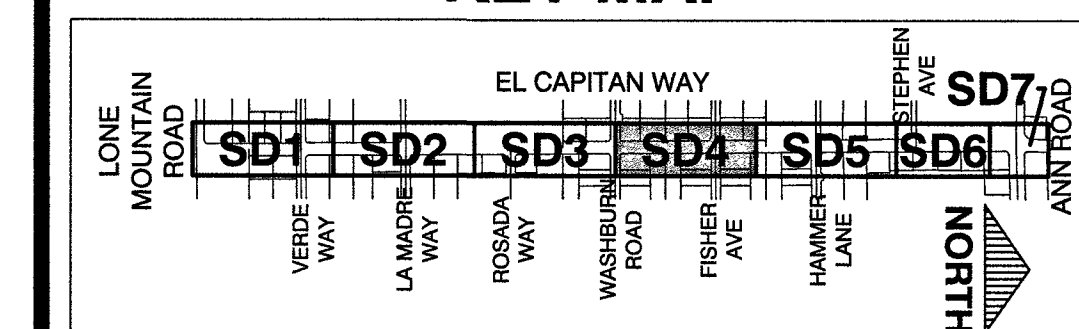
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KEY MAP



APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT No. 125005 FIRST APPROVED DATE: 11/21/17

1	11/14/19	FINAL AS-BUILTS	REVISIONS

PREPARED BY

GCM

ENGINEERS SURVEYORS

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

PREPARED FOR
CITY OF LAS VEGAS

TITLE
GOWAN NORTH - EL CAPITAN BRANCH
LONE MOUNTAIN ROAD TO ANN ROAD

RECORD
DRAWINGS

COVER SHEET SEALED
11/14/2017

ENGINEER OF RECORD
STEPHEN M. JONES
P.E. No. 19638
SHEET

SD4
26 OF 52
DRAWING NO.
327V294

PLAN AND PROFILE

MATCHLINE "ECW" 45+00.00
(SEE SHEET SD4)

MATCHLINE "ECW" 54+00.00
(SEE SHEET SD6)

EL CAPITAN WAY

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WHERE 10 FEET PARALLEL SEPARATION IS NOT PRACTICAL:
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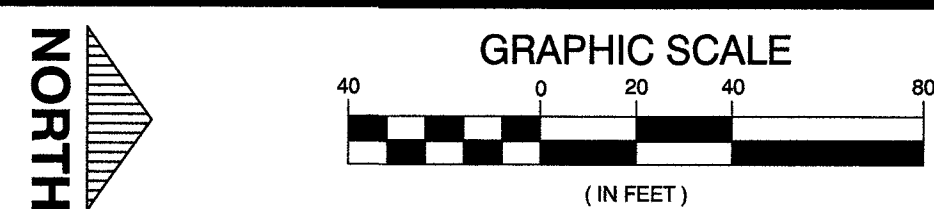
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RECORD DRAWINGS COMPLETED: JANUARY 2020
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PROJECT FINAL COMPLETION: OCTOBER 9, 2019
CONTRACTOR: LAS VEGAS PAVING CORP.
CONSTRUCTION MANAGER: DIVERSIFIED CONSULTING SERVICES
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NOTE: ELASTOMERIC SEALANT REQUIRED ON RCB JOINTS 10' CLEAR EACH WAY OF WATERLINE PER UDACS 2.22

NOTE:
IN AREAS WHERE THE EXCAVATION OR GROUND ELEVATION IS LESS THAN THREE (3) FEET, FROM THE TOP OF THE LVMWD TRANSMISSION MAIN, NO EXCAVATION EQUIPMENT, OTHER THAN HAND HELD EQUIPMENT, WILL BE ALLOWED WITHIN TEN (10) FEET OF ANY PIPELINE IN THESE AREAS. THE CONTRACTOR IS TO PLACE A CONCRETE BARRIER, I.E. JERSEY RAIL, TO IDENTIFY AND PROTECT THE NO EQUIPMENT ZONE.

PROFILE

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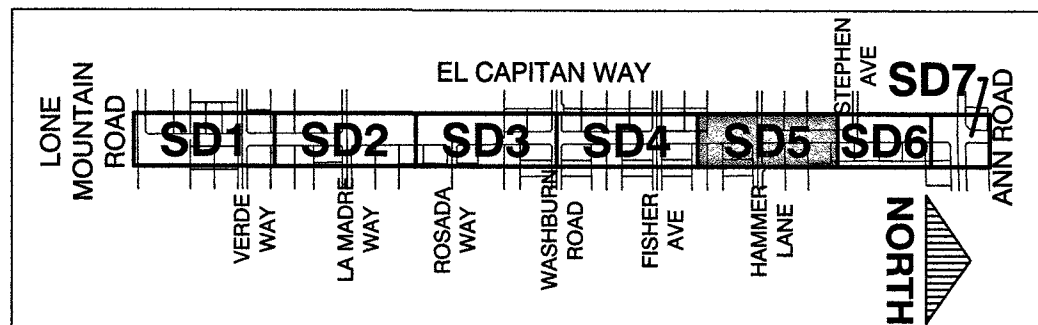
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PROJECT No. 125005 FIRST APPROVED DATE: 11/21/17

REVISIONS	
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1	11/14/19
FINAL AS-BUILTS	

PREPARED BY
GCW
1555 S. RAINBOW BLVD.
SUITE 200
LAS VEGAS, NV 89146
T: 702.804.2299
F: 702.804.2299
ENGINEERS\ SURVEYORS
gocwengineering.com

CITY OF LAS VEGAS
DESIGNED BY: RKB
DRAWN BY: RKB
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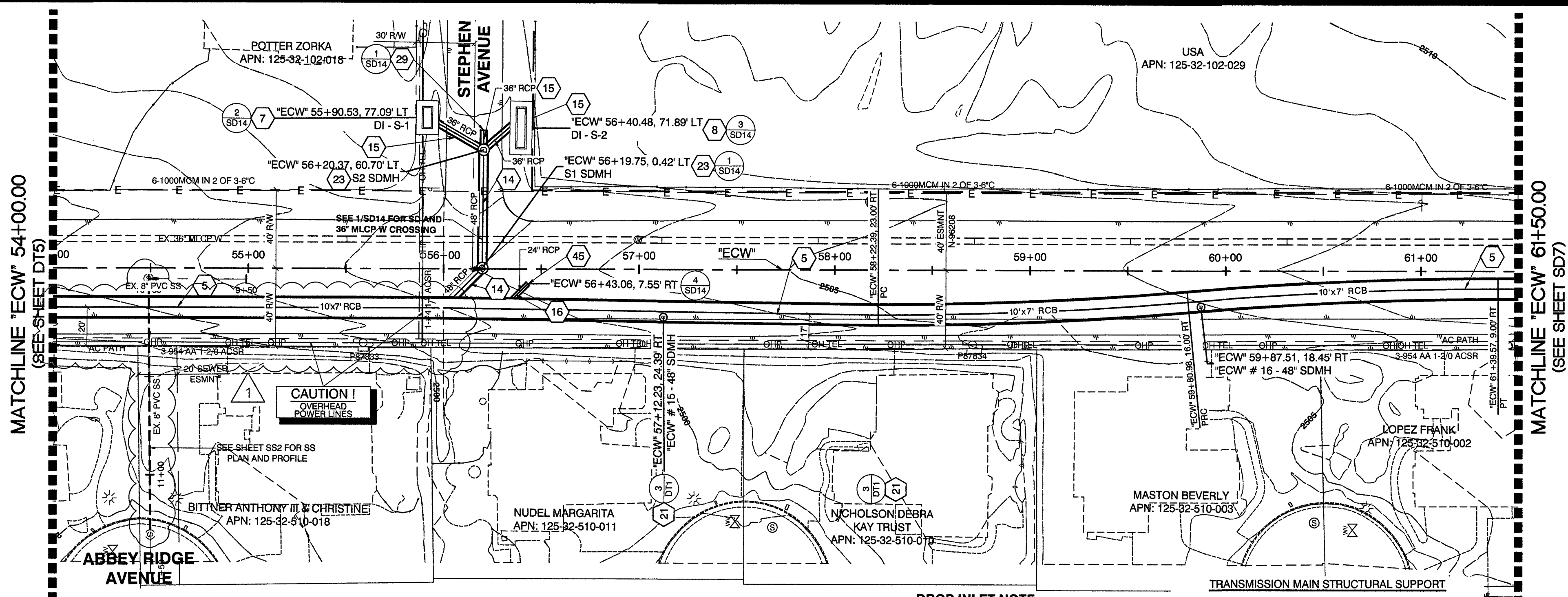
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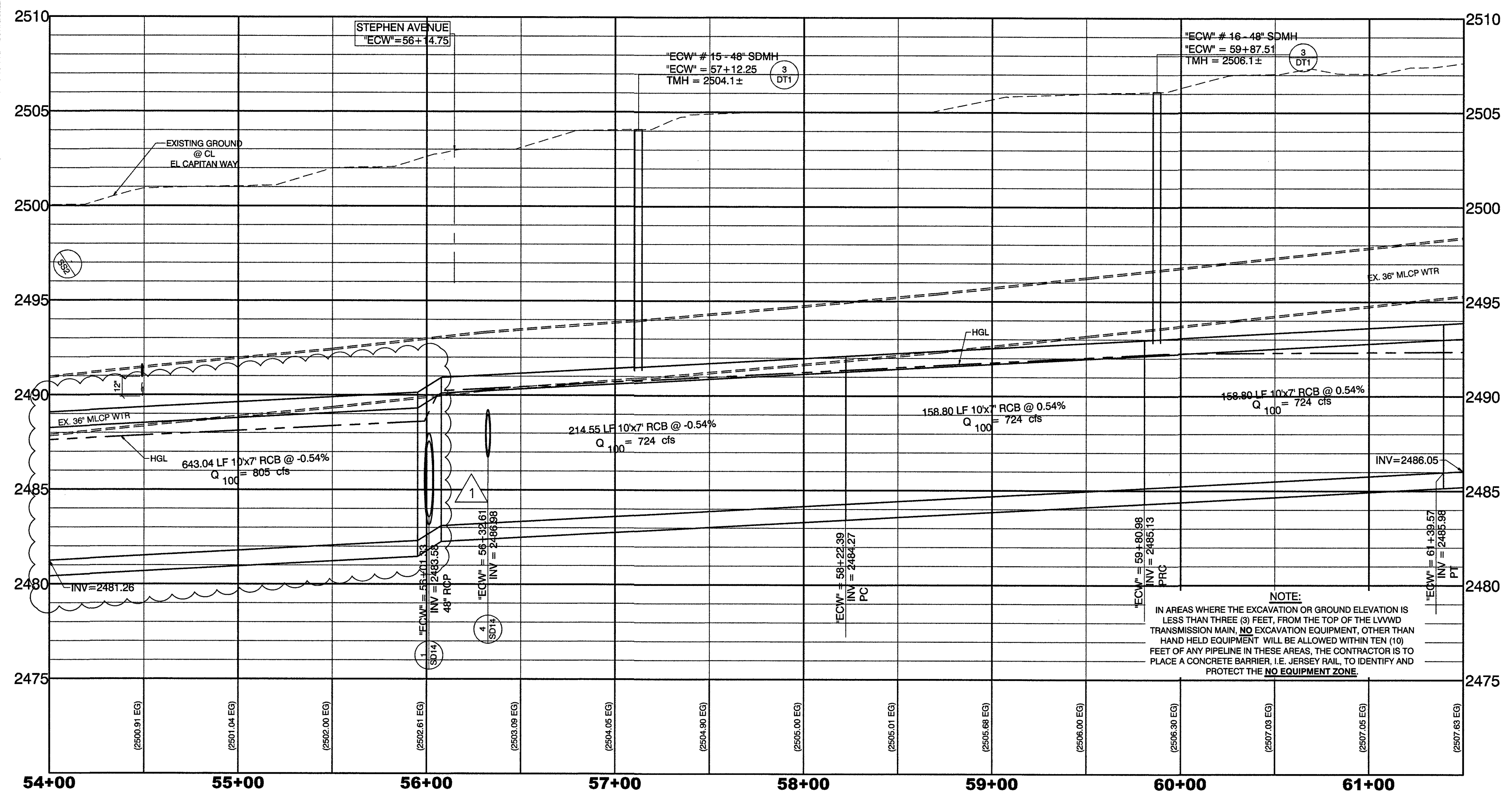
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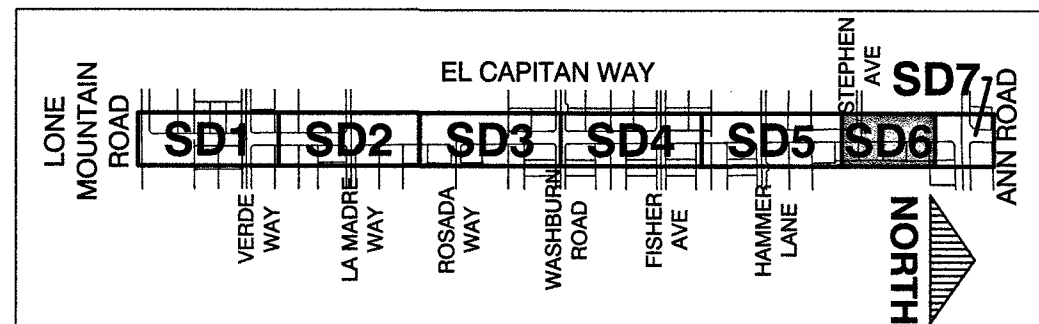
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- CONSTRUCT TYPE I MANHOLE PER USD #405 WITH 30" FRAME AND COVER PER USD #408
- CONSTRUCT TYPE II MANHOLE PER USD #406 WITH 30" FRAME AND COVER PER USD #408
- CONSTRUCT TYPE "CM2" DROP INLET PER USD #412.1 AND USD #421 (LENGTH PER PLAN)
- INSTALL RCB PLUG, PER DETAIL 2, SHT. ST3
- INSTALL 60" RCP PLUG, PER DETAIL 2, SHT. ST4
- NOT USED
- INSTALL 48" RCP PLUG, PER DETAIL 2, SHT. ST4
- INSTALL 36" RCP PLUG, PER DETAIL 2, SHT. ST4
- CONSTRUCT 8" PVC SEWER LINE PER DCSWS PLATES 17 AND 18
- CONSTRUCT 12" DIP WATER LINE PER UDACS PLATES 17 AND 18
- CONSTRUCT 10" DIP WATER LINE PER UDACS PLATES 17 AND 18
- CONSTRUCT 8" DIP WATER LINE PER UDACS PLATES 17 AND 18
- CONSTRUCT HALF STREET CROSS GUTTER PER USD #229
- CONSTRUCT 8" PVC WATER LINE PER UDACS
- CONSTRUCT 30" RCP PER DETAIL 2, SHT. DT1 CLASS III UNLESS OTHERWISE NOTED IN PROFILE
- CONSTRUCT 30" PVC (C900) PER DETAIL 2, SHT. DT1
- CONSTRUCT 10"x2" SPECIAL DROP INLET PER DETAIL 1, SHT. ST6 AND USD #421 AND PER DETAIL 4, SHT. DT1
- INSTALL 30" RCP PLUG PER DETAIL 2, SHT. ST4
- INSTALL 42" RCP PLUG PER DETAIL 2, SHT. ST4
- INSTALL JUNCTION STRUCTURE #4, PER DETAIL 2, SHT. ST5
- INSTALL JUNCTION STRUCTURE #5, PER DETAIL 3, SHT. ST5
- INSTALL CONCRETE COLLAR PER DETAIL 8, SHT. DT1
- CONSTRUCT 42" RCP PER DETAIL 2, SHT. DT1 CLASS III UNLESS OTHERWISE NOTED IN PROFILE
- INSTALL 24" RCP PLUG, PER DETAIL 2, SHT. ST4
- NOT USED
- CONSTRUCT 24"x38" HERCP PER DETAIL 2, SHT. DT1 CLASS III UNLESS OTHERWISE NOTED IN PROFILE
- CONSTRUCT 19"x30" HERCP PER DETAIL 2, SHT. DT1 CLASS III UNLESS OTHERWISE NOTED IN PROFILE

DISCLAIMER NOTE

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KEY MAP



APPROVED FOR CONSTRUCTION
 LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
 PROJECT No. 125005 FIRST APPROVED DATE: 11/21/17

RECORD DRAWINGS
 COVER SHEET SEALED
 11/14/2017
 ENGINEER OF RECORD
 STEPHEN M. JONES
 P.E. No. 19638
 SHEET
SD6
 28 OF 52
 DRAWING NO.
 327V294

CITY OF LAS VEGAS
 PREPARED FOR
 GOWAN NORTH - EL CAPITAN BRANCH
 LONE MOUNTAIN ROAD TO ANN ROAD
 PLAN AND PROFILE
 "ECW" 54+00.00 TO "ECW" 61+50.00

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

REVISIONS

NO.	DATE	REVISIONS
1	11/14/19	FINAL AS-BUILTS

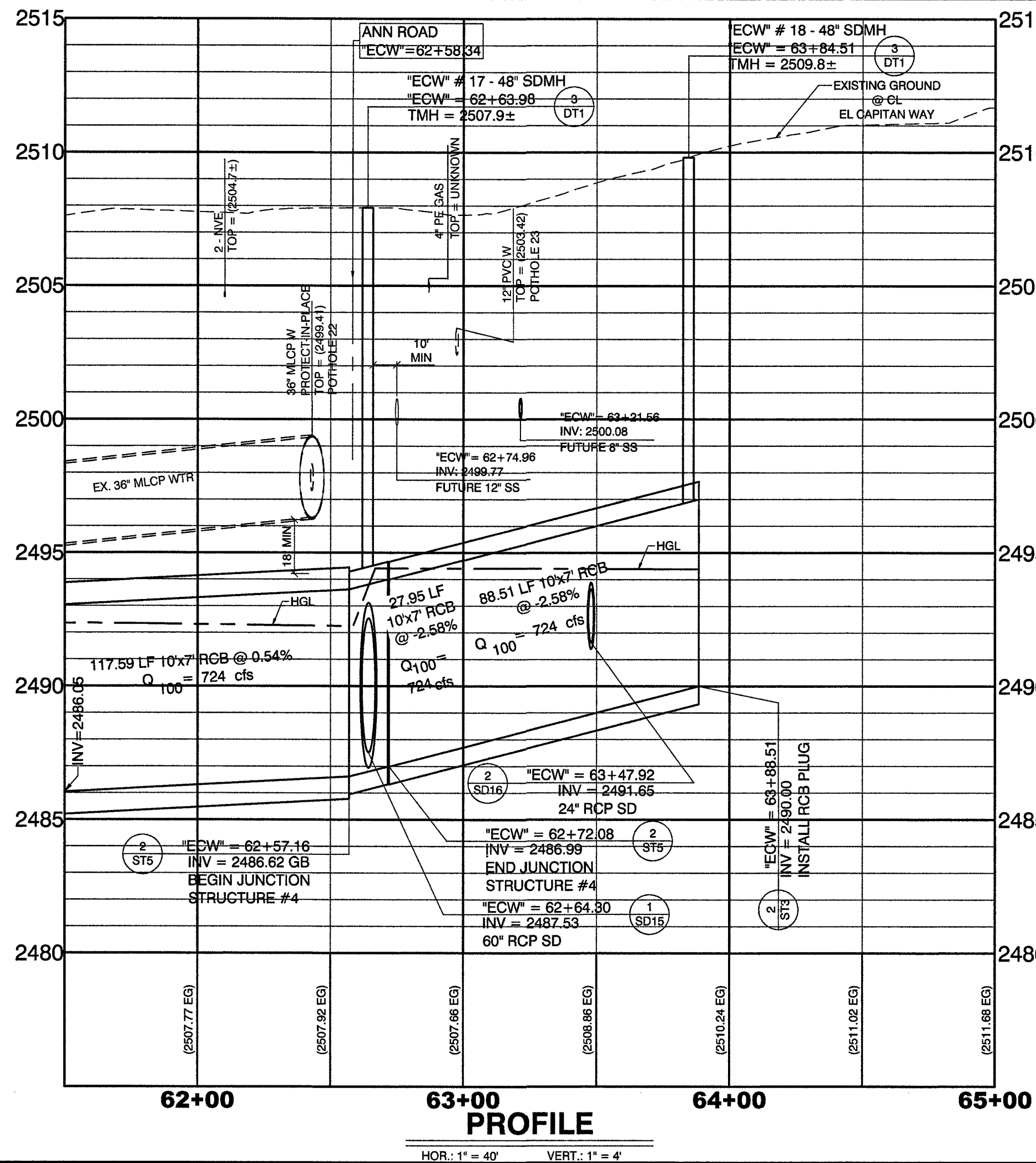
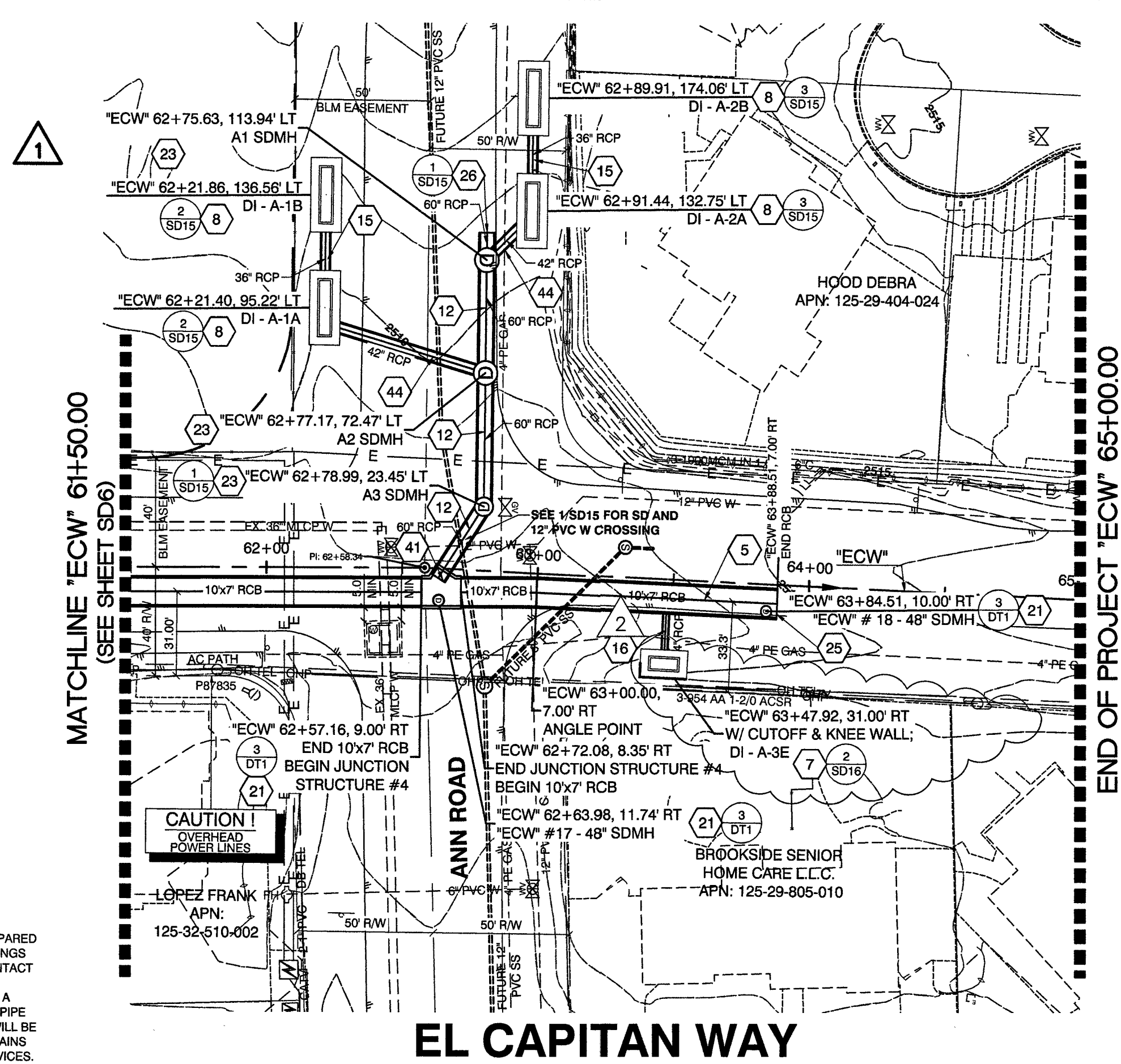
DESIGNED BY: RKB
 DRAWN BY: RKB
 CHECKED BY: SJ
 DATE: 11/14/17
 SUBMITTAL STAGE: 100% - FINAL

RECORD DRAWINGS

RECORD DRAWINGS COMPLETED: JANUARY 2020
BY GCW, INC.
PROJECT FINAL COMPLETION: OCTOBER 9, 2019
CONTRACTOR: LAS VEGAS PAVING CORP.
CONSTRUCTION MANAGER: DIVERSIFIED CONSULTING SERVICES
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AS-BUILT INFORMATION AS PROVIDED BY THE
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NOTE:
IN AREAS WHERE THE EXCAVATION OR GROUND ELEVATION IS
LESS THAN THREE (3) FEET FROM THE TOP OF THE LVWD
TRANSMISSION MAIN, NO EXCAVATION EQUIPMENT, OTHER THAN
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FEET OF ANY PIPELINE IN THESE AREAS. THE CONTRACTOR IS TO
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PROTECT THE **NO EQUIPMENT ZONE**.

TRANSMISSION MAIN STRUCTURAL SUPPORT
CONTRACTOR SHALL SUBMIT STRUCTURAL CALCULATIONS PREPARED
BY A NEVADA LICENSED STRUCTURAL ENGINEER FOR CROSSINGS
WITH WATER WHERE THE TRENCH IS 6-FEET OR GREATER. CONTACT
ENGINEERING SERVICES FOR INDICATIONS ON PACKAGE
SUBMITTAL. PIPE SUPPORT PACKAGE MUST BE SUBMITTED A
MINIMUM OF 30 DAYS PRIOR TO COMMENCEMENT OF WORK. PIPE
SUPPORTS FOR TRANSMISSION MAINS (24-INCH AND LARGER) WILL BE
LIMITED TO A MAXIMUM OF 1 WEEK. A SCHEDULE OF WATER MAINS
SUPPORTED MUST BE PROVIDED TO LVWD ENGINEERING SERVICES.



CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
BEFORE YOU OVERHEAD	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.P.O.	702-229-6611
	NV ENERGY	702-227-2929

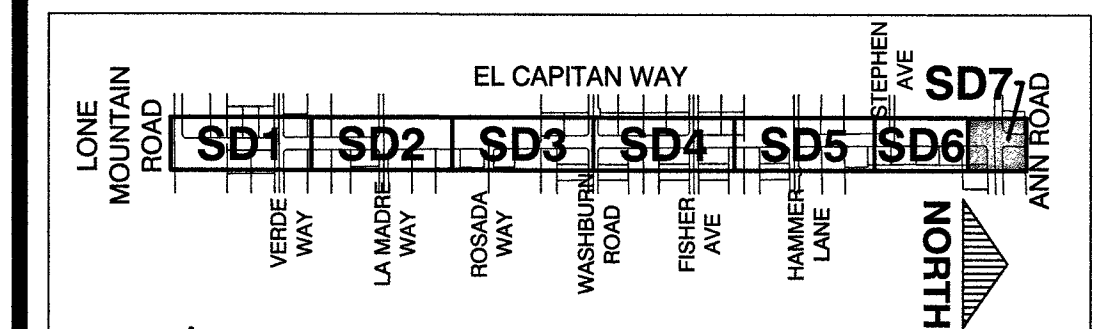
CONSTRUCTION KEY NOTES

- REMOVE END CAP AND CONNECT TO EXISTING 12x6 RCP PER DETAIL 1, SHT. ST2
- CONSTRUCT TRANSITION STRUCTURE #1 PER DETAIL 1, SHT. ST2
- CONSTRUCT 10x8 RCP PER DETAIL 1, SHT. DT1
- CONSTRUCT JUNCTION STRUCTURE #1 PER DETAIL 1, SHT. ST3
- CONSTRUCT 10x7 RCP PER DETAIL 1, SHT. DT1
- CONSTRUCT JUNCTION STRUCTURE #2 PER DETAIL 1, SHT. ST4
- CONSTRUCT 10x4 SPECIAL DROP INLET PER DETAIL 1, SHT. ST6 AND USD #421 AND DETAIL 4, SHT. DT1
- CONSTRUCT 20x4 SPECIAL DROP INLET PER DETAIL 1, SHT. ST6 AND USD #421 AND DETAIL 4, SHT. DT1
- CONSTRUCT 20x4 SPECIAL DROP INLET PER DETAIL 1, SHT. ST6 AND USD #421 AND DETAIL 4, SHT. DT1
- CONSTRUCT JUNCTION STRUCTURE #3 PER DETAIL 1, SHT. ST5
- CONSTRUCT 5x3 RCP PER DETAIL 1, SHT. DT1
- CONSTRUCT 60 RCP PER DETAIL 2, SHT. DT1. CLASS III UNLESS OTHERWISE NOTED IN PROFILE
- CONSTRUCT 54 RCP PER DETAIL 2, SHT. DT1. CLASS III UNLESS OTHERWISE NOTED IN PROFILE
- CONSTRUCT 48 RCP PER DETAIL 2, SHT. DT1. CLASS III UNLESS OTHERWISE NOTED IN PROFILE
- CONSTRUCT 36 RCP PER DETAIL 2, SHT. DT1. CLASS III UNLESS OTHERWISE NOTED IN PROFILE
- CONSTRUCT 24 RCP PER DETAIL 2, SHT. DT1. CLASS III UNLESS OTHERWISE NOTED IN PROFILE
- CONSTRUCT 18 RCP PER DETAIL 2, SHT. DT1. CLASS III UNLESS OTHERWISE NOTED IN PROFILE
- CONSTRUCT 36 PVC (C900) PER DETAIL 2, SHT. DT1
- CONSTRUCT 24 PVC (C900) PER DETAIL 2, SHT. DT1
- CONSTRUCT 18 PVC (C900) PER DETAIL 2, SHT. DT1
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- NOT USED
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- CONSTRUCT 8" PVC WATER LINE PER UDACS
- CONSTRUCT 30 RCP PER DETAIL 2, SHT. DT1. CLASS III UNLESS OTHERWISE NOTED IN PROFILE
- CONSTRUCT 30 PVC (C900) PER DETAIL 2, SHT. DT1
- CONSTRUCT 10x2 5' SPECIAL DROP INLET PER DETAIL 1, SHT. ST6 AND USD #421 AND PER DETAIL 4, SHT. DT1
- INSTALL 30 RCP PLUG PER DETAIL 2, SHT. ST4
- INSTALL 42 RCP PLUG PER DETAIL 2, SHT. ST4
- INSTALL JUNCTION STRUCTURE #4, PER DETAIL 2, SHT. ST5
- INSTALL JUNCTION STRUCTURE #5, PER DETAIL 3, SHT. ST5
- INSTALL CONCRETE COLLAR PER DETAIL 8, SHT. DT1
- CONSTRUCT 42 RCP PER DETAIL 2, SHT. DT1. CLASS III UNLESS OTHERWISE NOTED IN PROFILE
- INSTALL 24 RCP PLUG, PER DETAIL 2, SHT. ST4
- NOT USED
- CONSTRUCT 24x38 HERCP PER DETAIL 2, SHT. DT1. CLASS III UNLESS OTHERWISE NOTED IN PROFILE
- CONSTRUCT 19x30 HERCP PER DETAIL 2, SHT. DT1. CLASS III UNLESS OTHERWISE NOTED IN PROFILE

DISCLAIMER NOTE

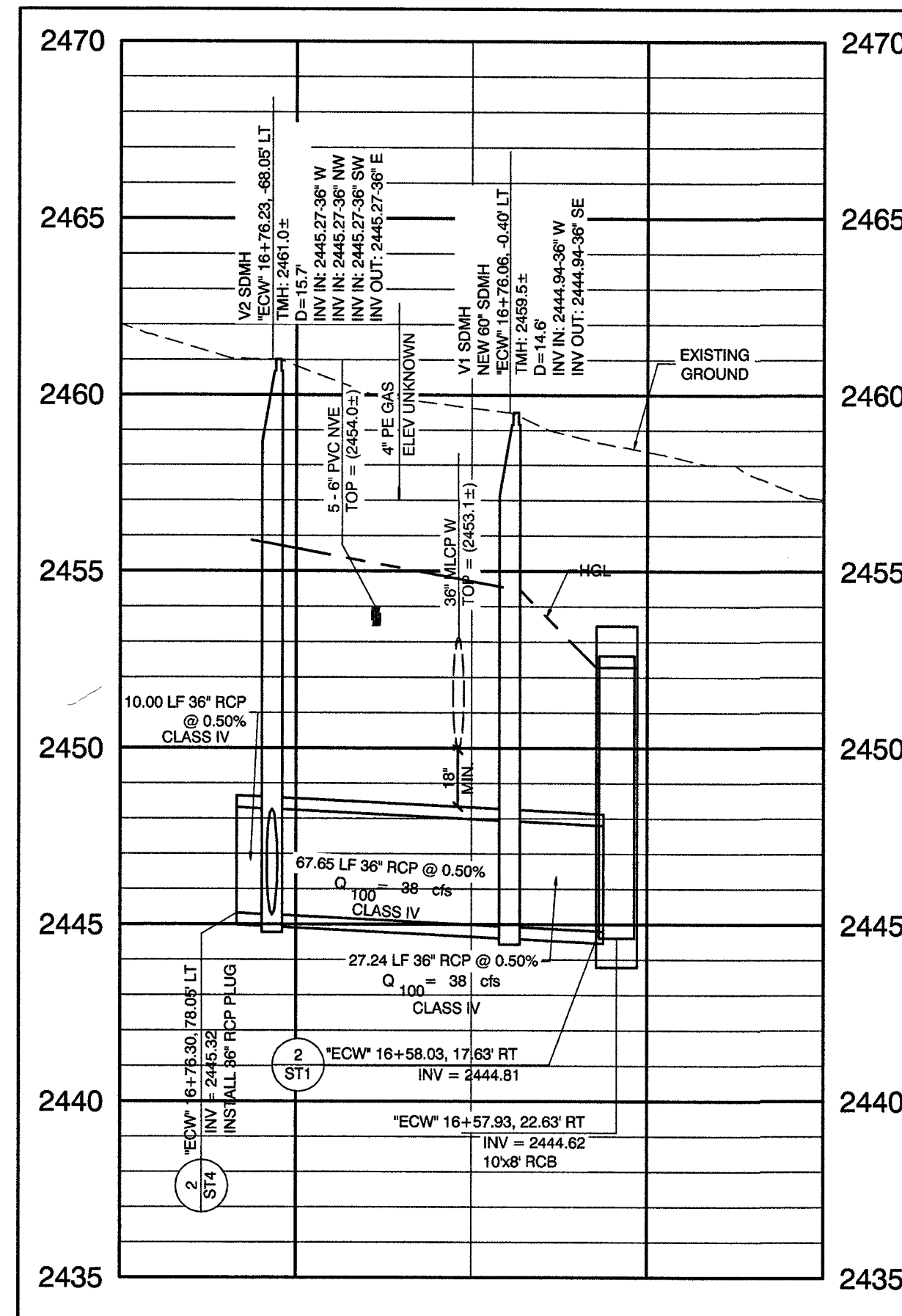
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KEY MAP



APPROVED FOR CONSTRUCTION
PREVIOUSLY SIGNED BY MIKE DISHARI ON 3/26/18
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT No. 125005 FIRST APPROVED DATE: 11/21/17

1555 S. RAINBOW BLVD. LAS VEGAS, NV 89146 702.804.2000 F: 702.804.2000 E: gowang@engr.com		FINAL AS-BUILT'S OBTAINED BLM EASEMENT 8/21/18 DATE
PREPARED BY GCW ENGINEERS/SURVEYORS	DESIGNED BY: RKB DRAWN BY: RKB CHECKED BY: SJ	DATE: 11/14/17 SUBMITTAL STAGE: 100% - FINAL
PREPARED FOR CITY OF LAS VEGAS BID# 17-63691 H# 63691		
GOWAN NORTH - EL CAPITAN BRANCH LONE MOUNTAIN ROAD TO ANN ROAD		
PLAN AND PROFILE "ECW" 61+50.00 TO "ECW" 65+00.00		
RECORD DRAWINGS COVER SHEET SEALED 11/14/2017 ENGINEER OF RECORD: STEPHEN M. JONES P.E. No. 19638 SHEET		
SD7 29 OF 52 DRAWING NO. 327V294		

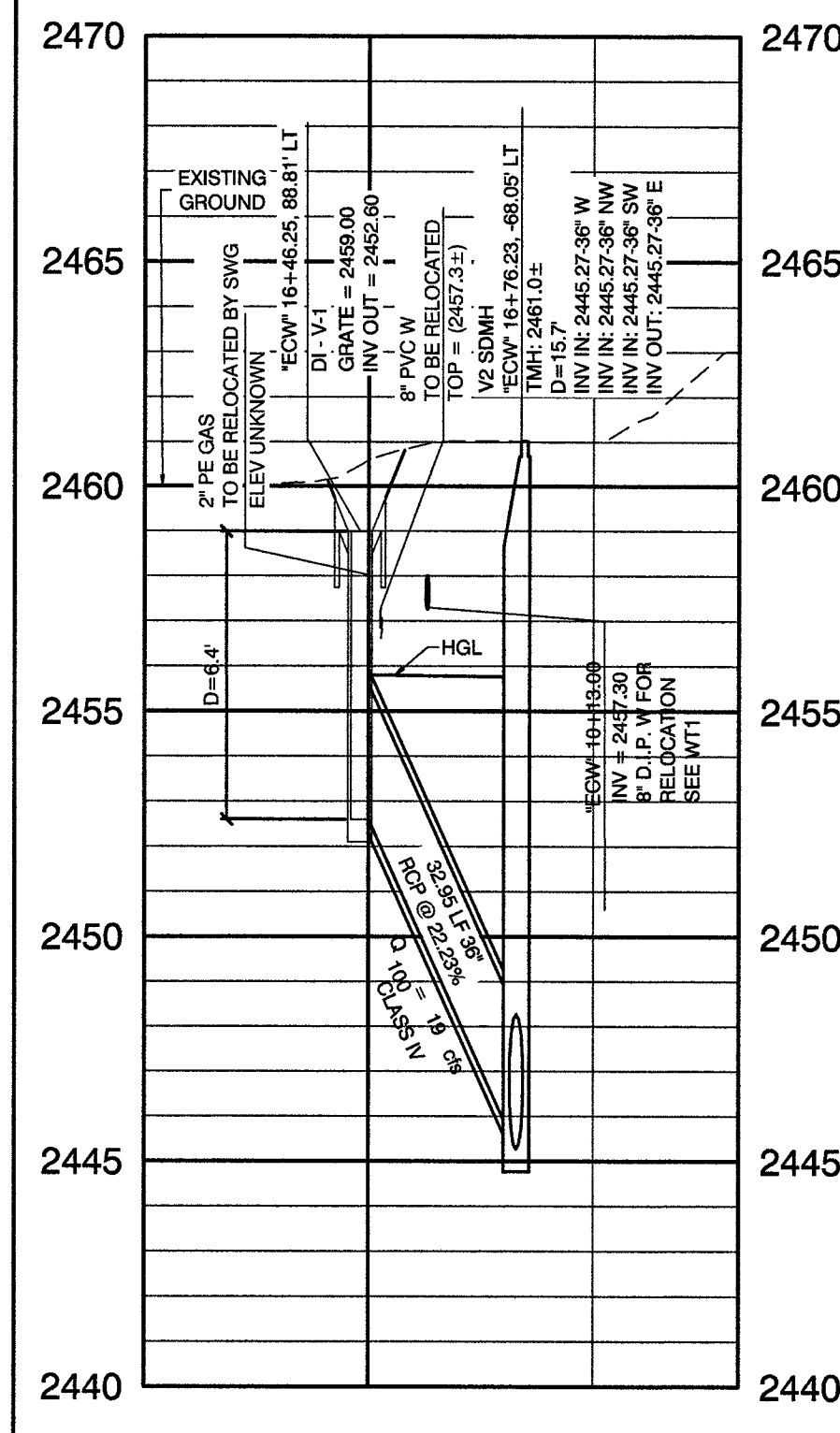


**STORM DRAIN LATERAL
VERDE WAY**

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

1
SD8

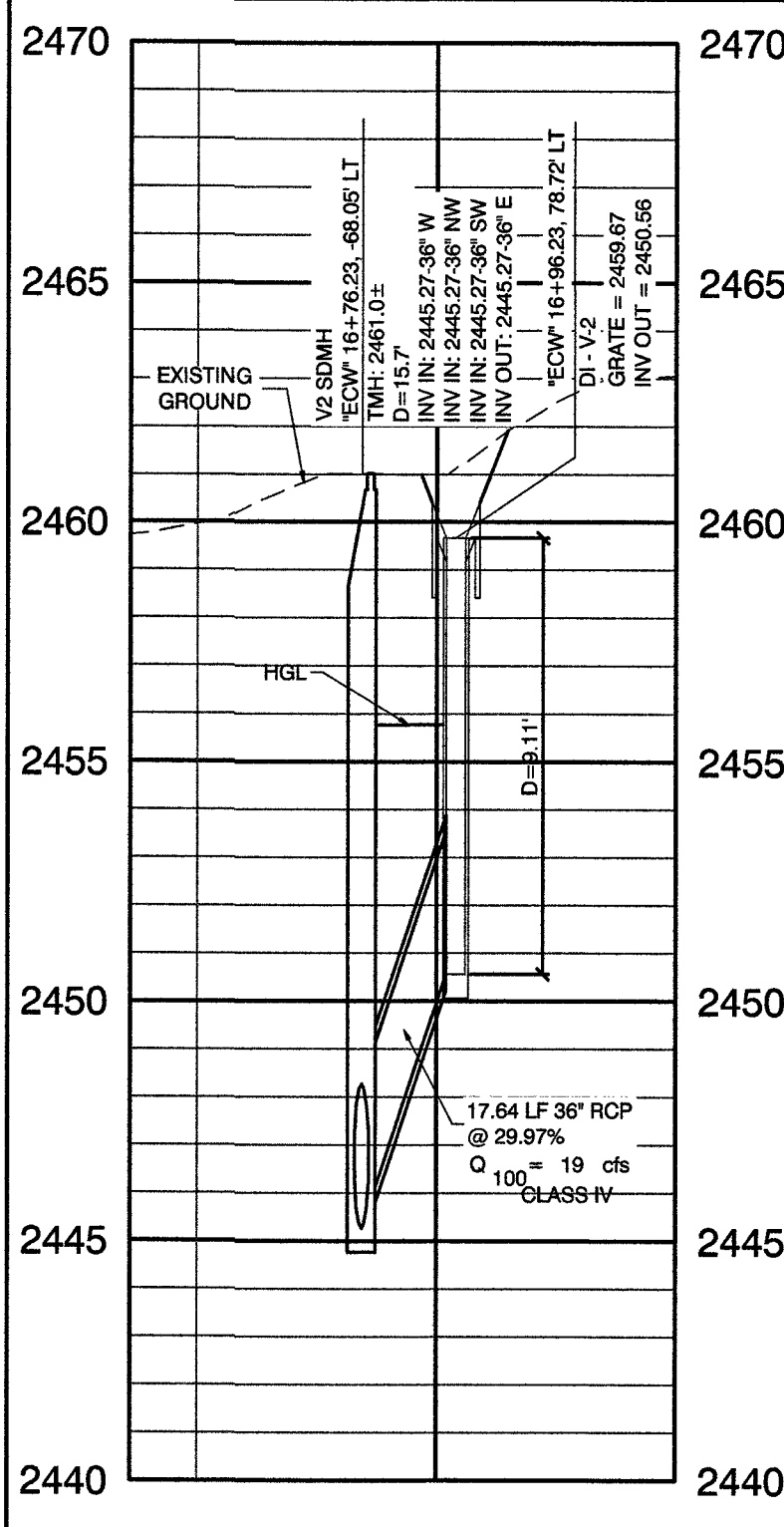
**CAUTION:
GASLINE RELOCATION NOTE**
CONTRACTOR TO COORDINATE WITH SOUTHWEST GAS.



**STORM DRAIN LATERAL
VERDE WAY**

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

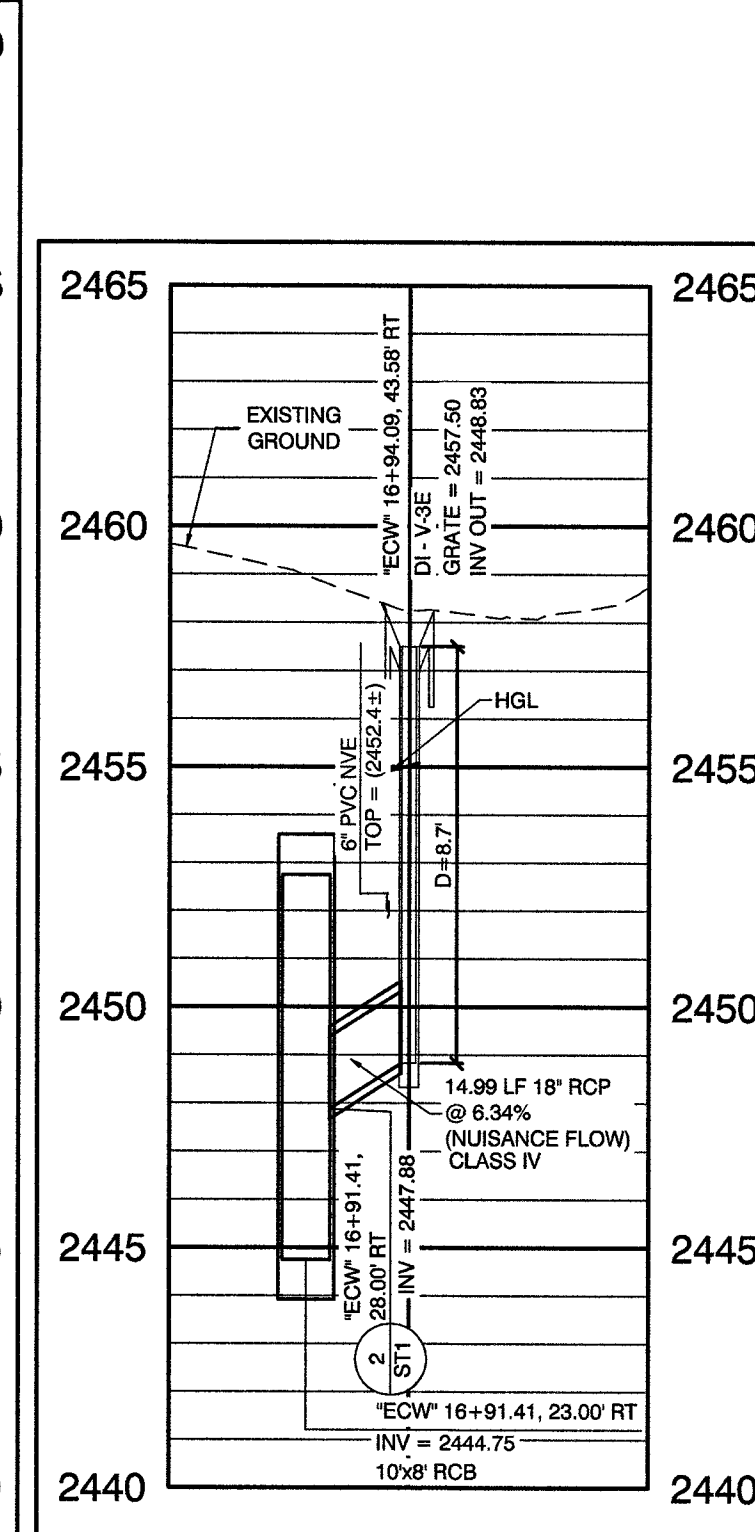
2
SD8



**STORM DRAIN LATERAL
VERDE WAY**

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

3
SD8



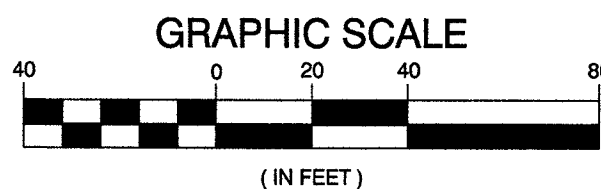
**STORM DRAIN LATERAL
EL CAPITAN WAY**

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

4
SD8

RECORD DRAWINGS

RECORD DRAWINGS COMPLETED: JANUARY 2020
BY GCW, INC.
PROJECT FINAL COMPLETION: OCTOBER 9, 2019
CONTRACTOR: LAS VEGAS PAVING CORP.
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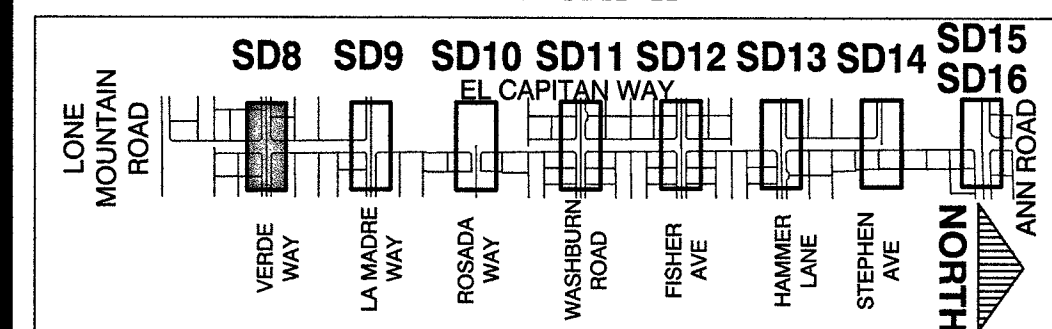
CALL BEFORE CONSTRUCTION

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KEY MAP



CONTROLLED LOW STRENGTH:
PROTECT WATERLINES IN PLACE. WHENEVER A WATERLINE IS ABOVE A STORM DRAIN OR SEWER WHERE COMPACTION REQUIREMENTS UNDER A WATERLINE CANNOT BE MET, BACKFILL TRENCH WITH CLASS I CONTROLLED LOW STRENGTH MATERIAL (CLSM) TO THE SPRINGLINE OF THE WATERLINE. THIS REQUIREMENT IS FOR STRUCTURAL SUPPORT ONLY. ADDITIONAL HEALTH REGULATIONS MAY APPLY PER UDACS 2.22.

NOTE:
IN AREAS WHERE THE EXCAVATION OR GROUND ELEVATION IS LESS THAN THREE (3) FEET FROM THE TOP OF THE LVWWD TRANSMISSION MAIN, NO EXCAVATION EQUIPMENT, OTHER THAN HAND HELD EQUIPMENT, WILL BE ALLOWED WITHIN TEN (10) FEET OF ANY PIPELINE IN THESE AREAS. THE CONTRACTOR IS TO PLACE A CONCRETE BARRIER, I.E. JERSEY RAIL, TO IDENTIFY AND PROTECT THE NO EQUIPMENT ZONE.

TRANSMISSION MAIN STRUCTURAL SUPPORT
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APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT No. 125005 FIRST APPROVED DATE: 11/21/17

PREPARED BY

CITY OF LAS VEGAS

BID# 17-63691

DESIGNED BY: RKG

DRAWN BY: RKG

CHECKED BY: SJ

DATE: 11/14/17

SUBMITTAL STAGE:

100% - FINAL

GOWAN NORTH - EL CAPITAN BRANCH
LONE MOUNTAIN ROAD TO ANN ROAD

LATERAL PROFILES
VERDE WAY

RECORD
DRAWINGS

COVER SHEET SEALED
11/14/2017

ENGINEER OF RECORD:
STEPHEN M. JONES
P.E. No. 19638

SHEET

SD8

30 OF 52

DRAWING NO.
327V294

1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89148
P: 702.804.2000
F: 702.804.2000
E: info@gcwengineering.com
GCW ENGINEERS \ SURVEYORS
gcwengineering.com

REVISIONS

NO. DATE

RECORD DRAWINGS

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BY GCW, INC.
PROJECT FINAL COMPLETION: OCTOBER 9, 2019
CONTRACTOR: LAS VEGAS PAVING CORP.
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STORM DRAIN LATERAL LA MADRE WAY

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

1
SD9

STORM DRAIN LATERAL LA MADRE WAY

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

2
SD9

STORM DRAIN LATERAL LA MADRE WAY

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

3
SD9

STORM DRAIN LATERAL EL CAPITAN WAY

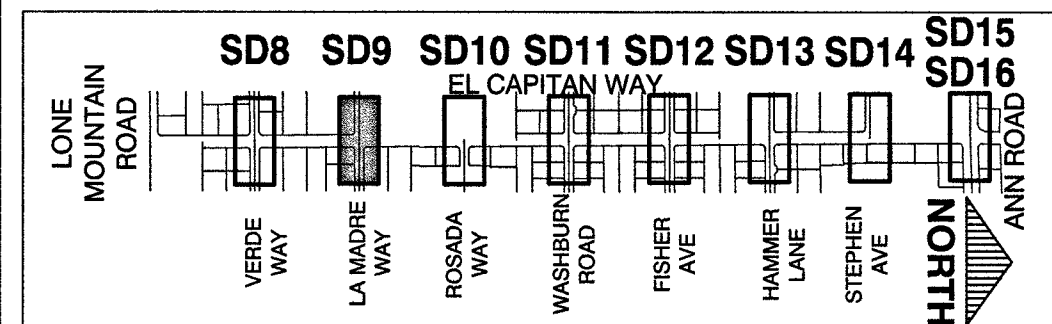
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4
SD9

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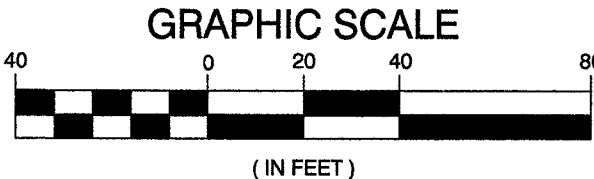


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APPROVED FOR CONSTRUCTION
PREVIOUSLY SIGNED BY MIKE DISHARI ON 11/21/17
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT No. 125005 FIRST APPROVED DATE: 11/21/17



CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2800
BEFORE YOU UNDERGROUND	F.A.S.T. CLARK COUNTY TRAFFIC OPERATIONS CITY OF LAS VEGAS T.E.F.O.	702-432-5300 702-455-7511 702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

PREPARED BY

CITY OF LAS VEGAS

BID# 17-63891
DESIGNED BY: RKB
DATE: 11/14/17
DRAWN BY: RKB
CHECKED BY: SJ
SUBMITTAL STAGE: 100% - FINAL

PREPARED FOR
CITY OF LAS VEGAS
H# 63891

GOWAN NORTH - EL CAPITAN BRANCH
LONE MOUNTAIN ROAD TO ANN ROAD
LATERAL PROFILES
LA MADRE WAY

RECORD DRAWINGS

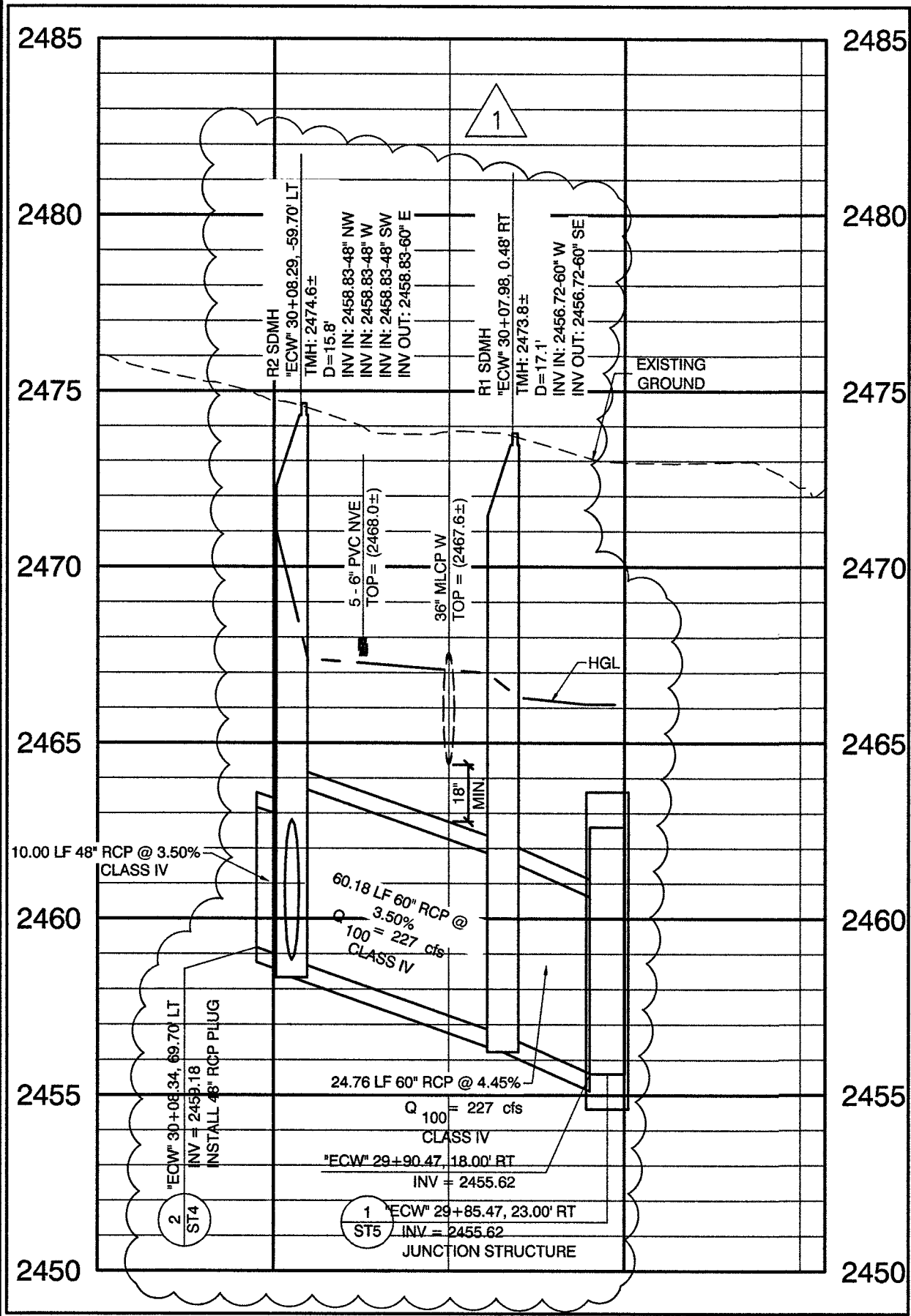
COVER SHEET SEALED
11/14/2017

ENGINEER OF RECORD:
STEPHEN M. JONES
P.E. No. 19638

SD9
31 OF 52
DRAWING NO.
327V294

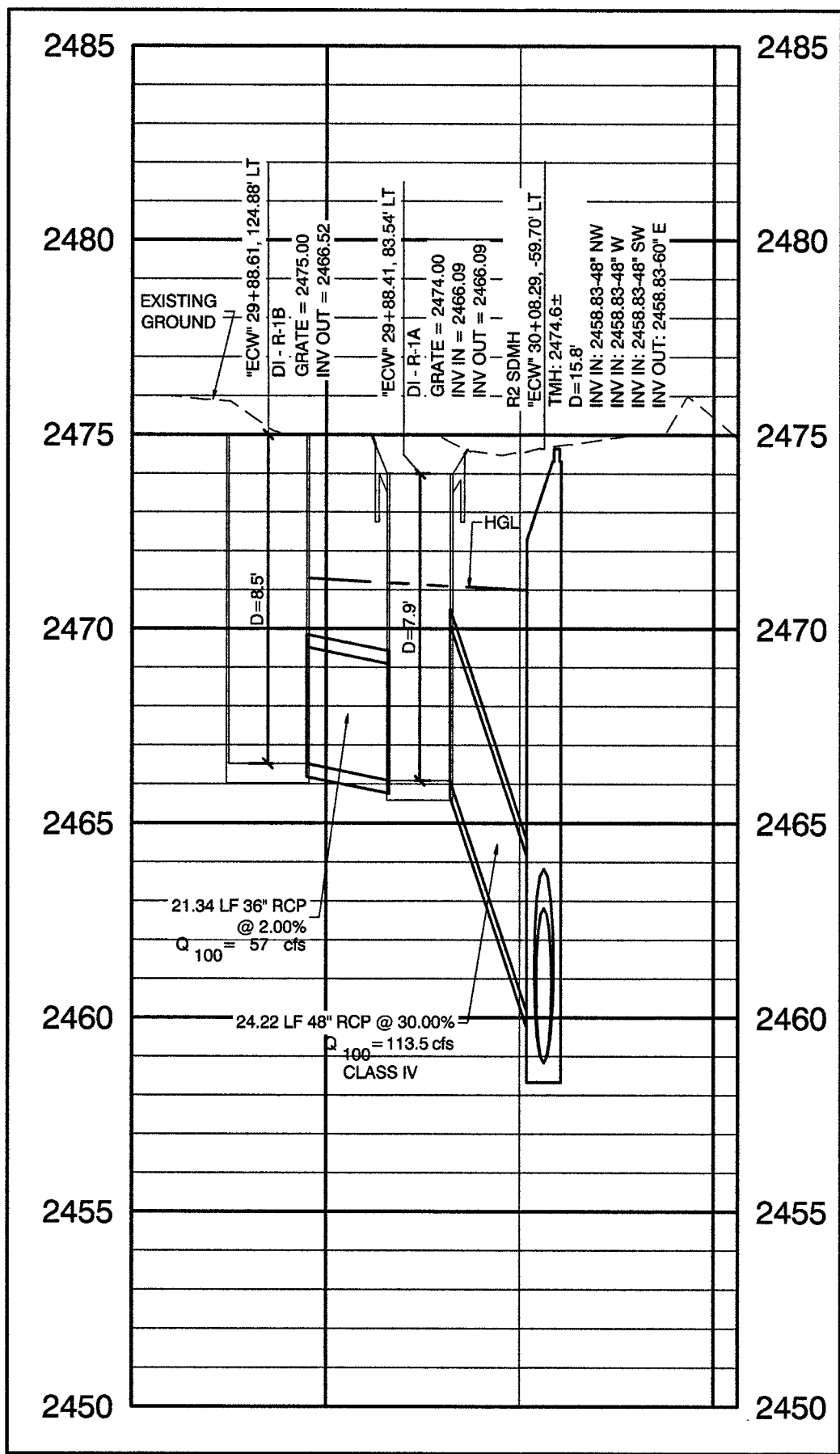
GCW
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2299
F: 702.804.2299
ENGINEERS\ SURVEYORS gcwengineering.com

FINAL AS-BUILTS
OBTAINED BLM EASEMENT
NO. DATE REVISIONS



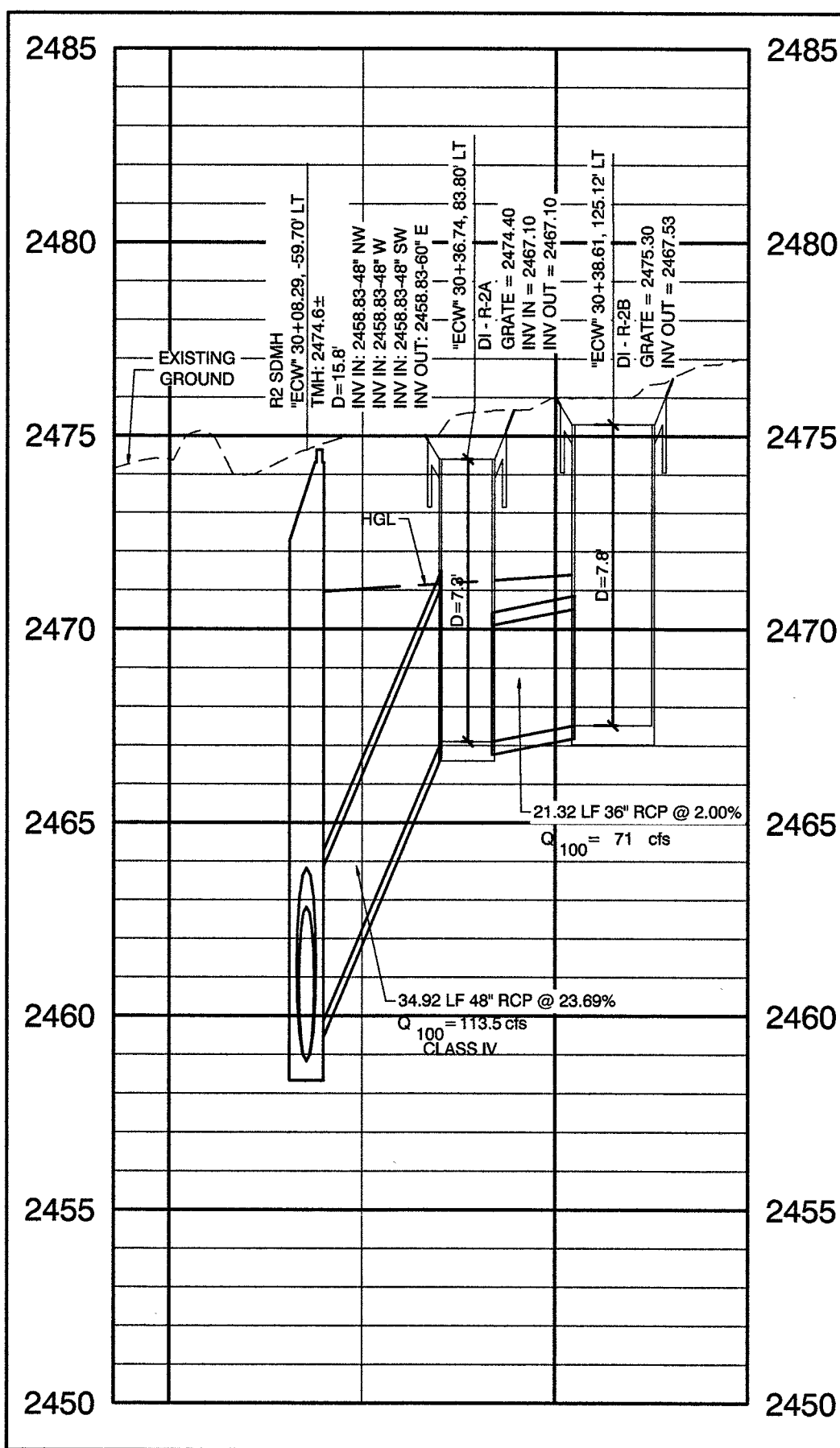
STORM DRAIN LATERAL
ROSADA WAY
SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

1
SD10



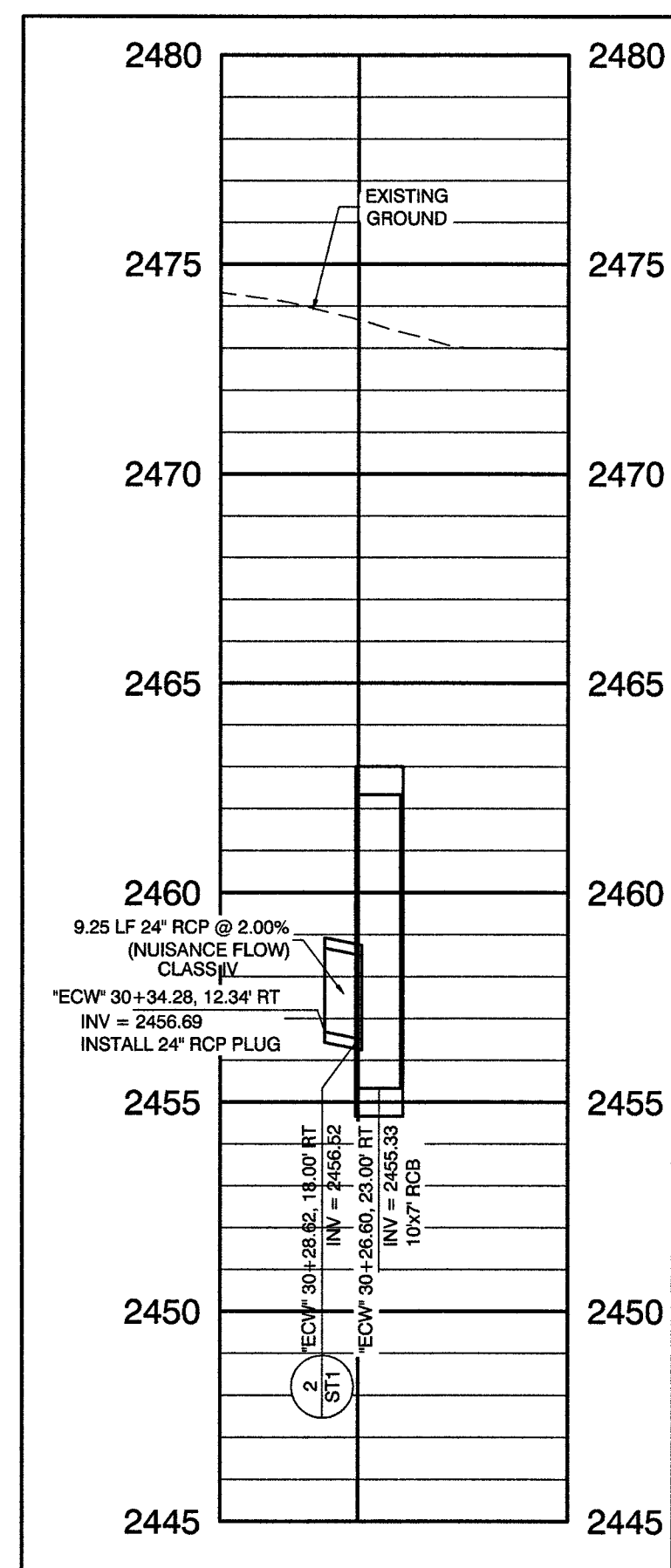
STORM DRAIN LATERAL
ROSADA WAY
SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

2
SD10



STORM DRAIN LATERAL
ROSADA WAY
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VERT. 1" = 4'

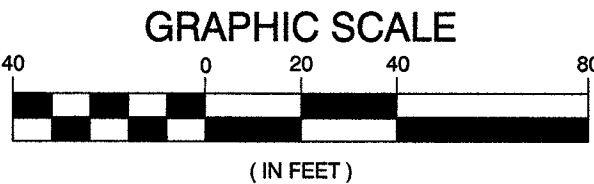
3
SD10



STORM DRAIN LATERAL
EL CAPITAN WAY
SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

4
SD10

RECORD DRAWINGS
RECORD DRAWINGS COMPLETED: JANUARY 2020
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PROJECT FINAL COMPLETION: OCTOBER 9, 2019
CONTRACTOR: LAS VEGAS PAVING CORP.
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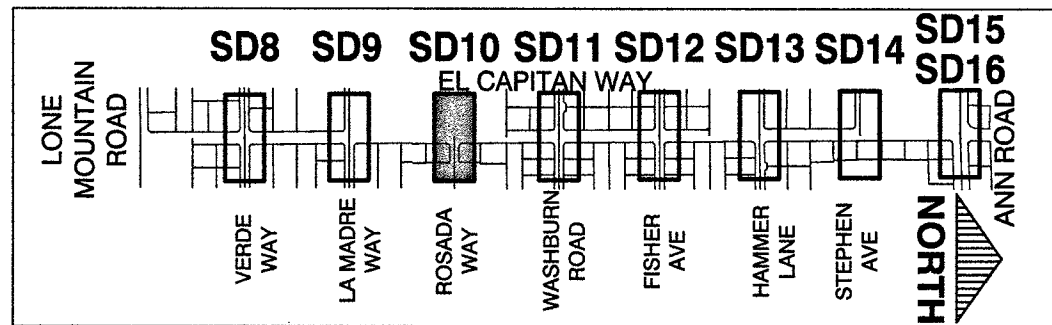


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	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

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KEY MAP



CONTROLLED LOW STRENGTH:
PROTECT WATERLINES IN PLACE. WHENEVER A WATERLINE IS ABOVE A STORM DRAIN OR SEWER WHERE COMPACTION REQUIREMENTS UNDER A WATERLINE CANNOT BE MET, BACKFILL TRENCH WITH CLASS I CONTROLLED LOW STRENGTH MATERIAL (CLSM) TO THE SPRINGLINE OF THE WATERLINE. THIS REQUIREMENT IS FOR STRUCTURAL SUPPORT ONLY. ADDITIONAL HEALTH REGULATIONS MAY APPLY PER UDACS 2.22.

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APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT No. 125005 FIRST APPROVED DATE: 11/21/17

PREPARED BY
GCV
ENGINEERS/SURVEYORS
1555 S. RAINBOW BLVD.
SUITE 200
LAS VEGAS, NV 89146
T: 702.804.2399
F: 702.804.2399
gcwengineering.com

DESIGNED BY: RKG
DRAWN BY: RKG
CHECKED BY: SJ

DATE: 11/14/17
SUBMITTAL STAGE:
100% - FINAL

PREPARED FOR
CITY OF LAS VEGAS

GOWAN NORTH - EL CAPITAN BRANCH
LONE MOUNTAIN ROAD TO ANN ROAD

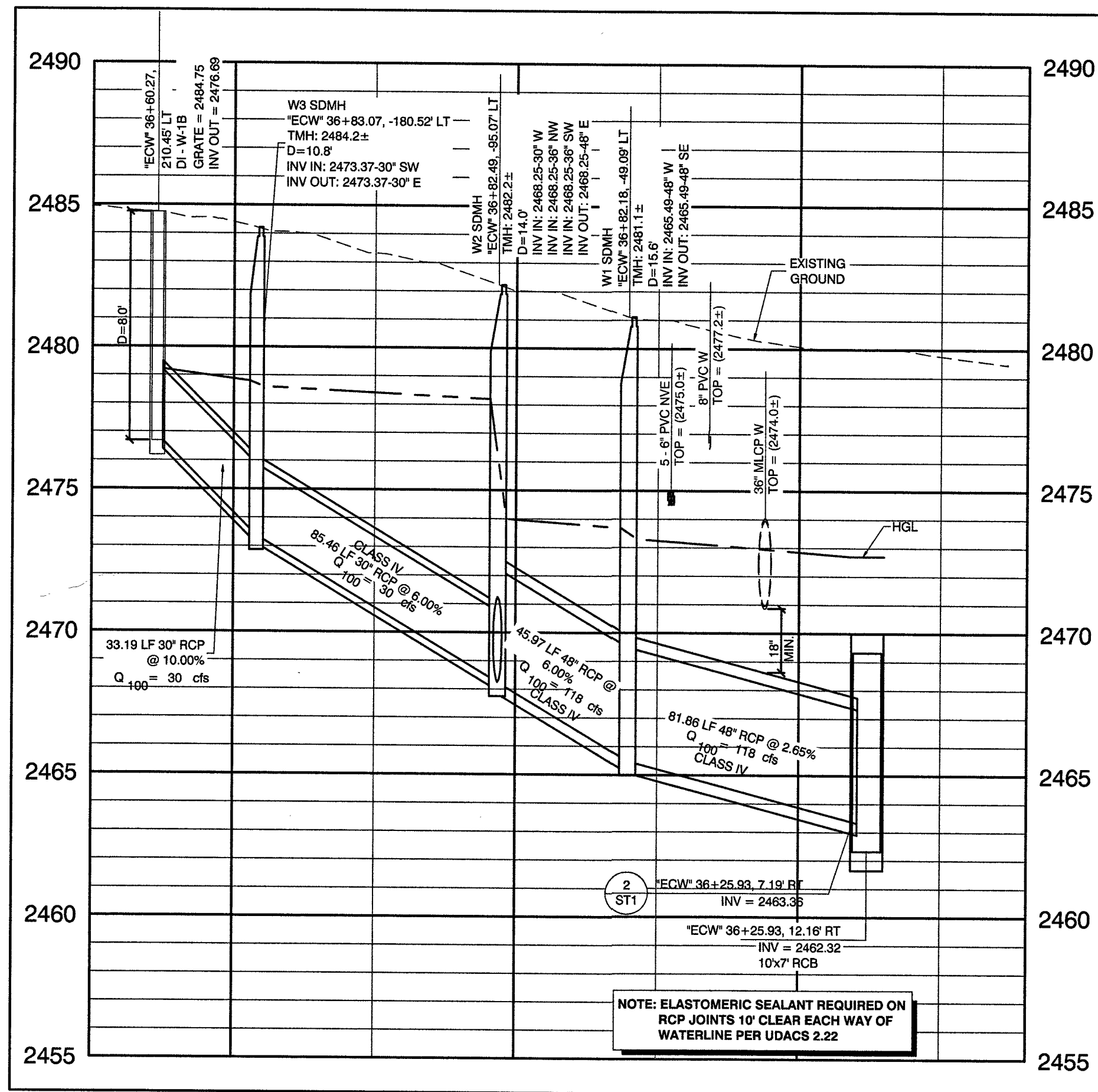
LATERAL PROFILES
ROSADA WAY

RECORD
DRAWINGS

COVER SHEET SEALED
11/14/2017

ENGINEER OF RECORD
STEPHEN M. JONES
P.E. No. 19638

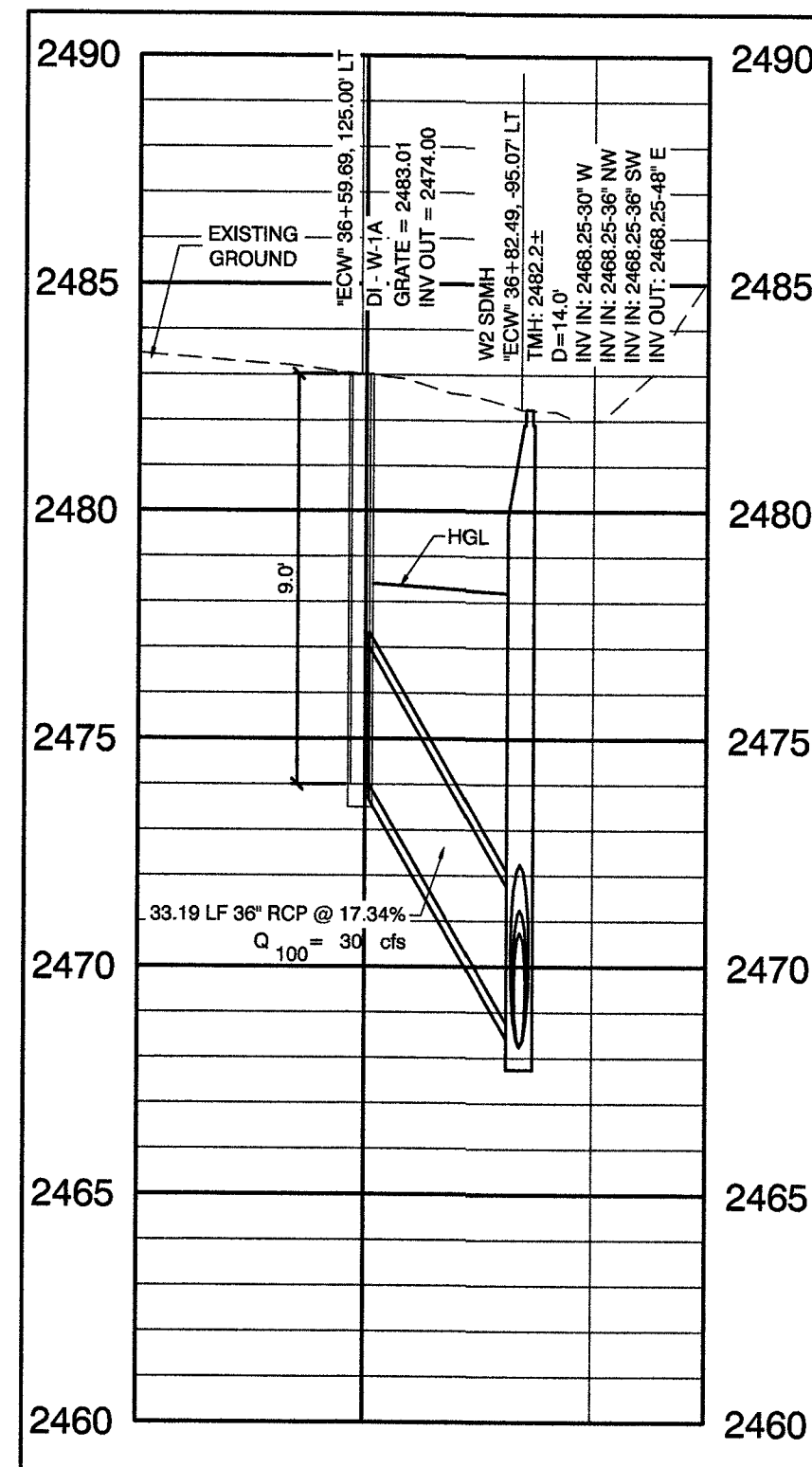
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32 OF 52
DRAWING NO.
327V294



**STORM DRAIN LATERAL
WASHBURN ROAD**

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

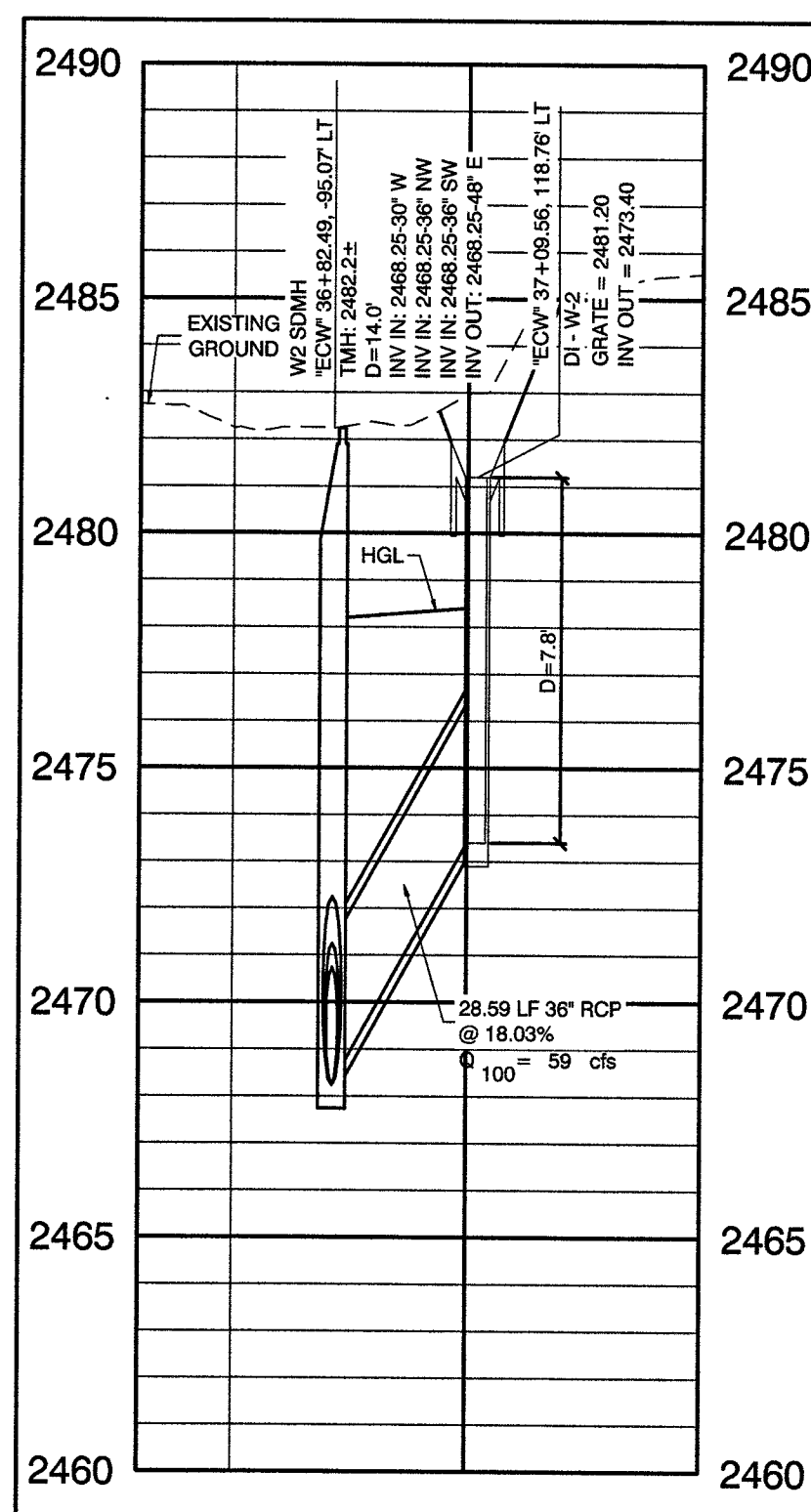
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**STORM DRAIN LATERAL
WASHBURN ROAD**

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

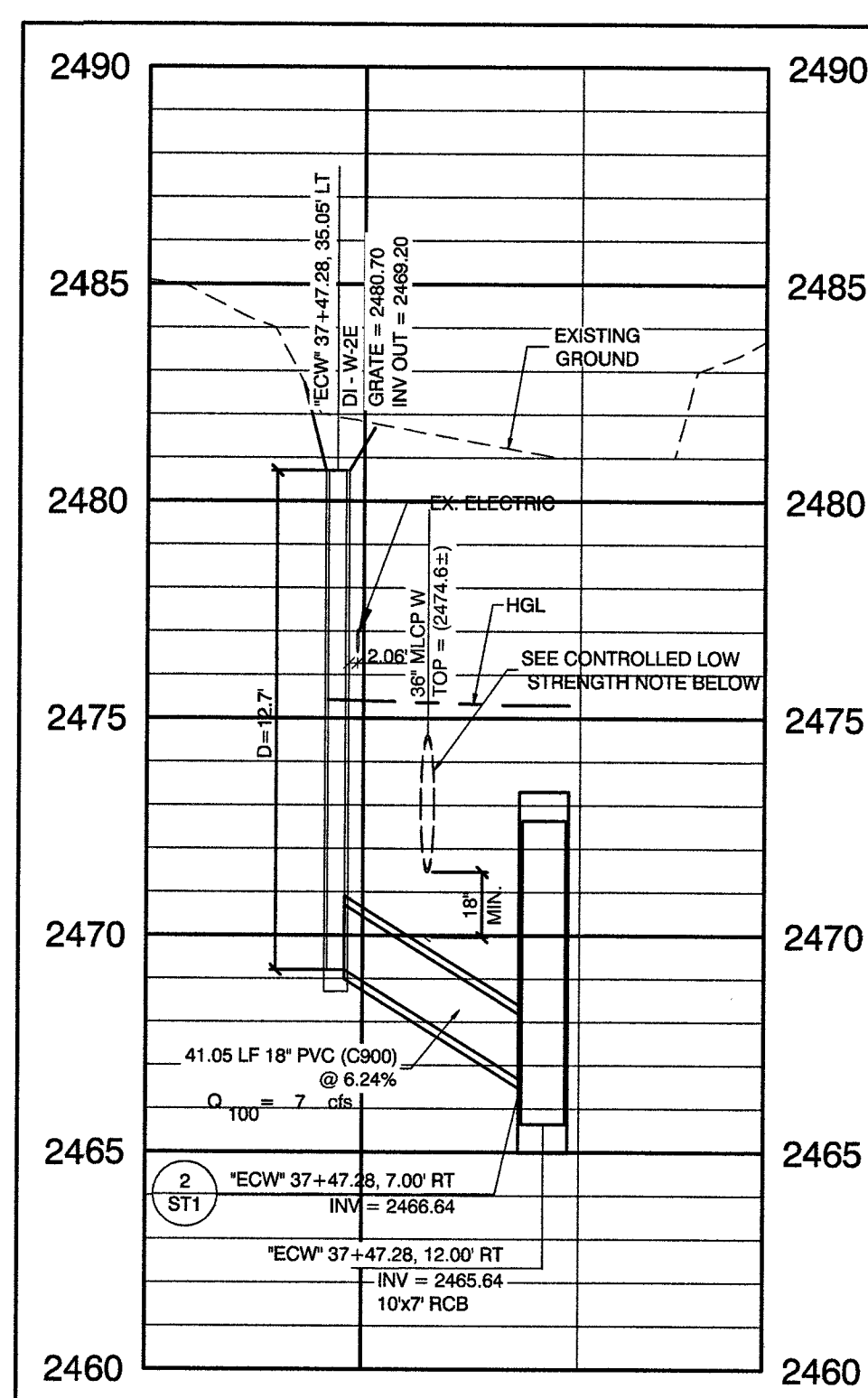
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**STORM DRAIN LATERAL
WASHBURN ROAD**

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

3
SD11



**STORM DRAIN LATERAL
EL CAPITAN WAY**

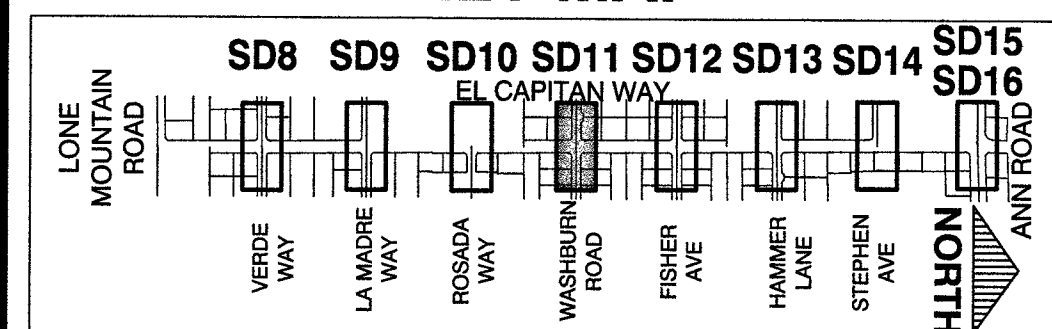
SCALE: HORIZ. 1" = 40'
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4
SD11

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KEY MAP



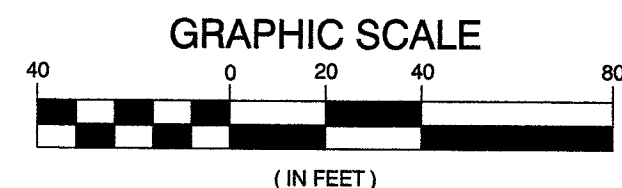
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APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT No. 125005 FIRST APPROVED DATE: 11/21/17



CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

PREPARED BY: CITY OF LAS VEGAS

BID# 17-63891
DESIGNED BY: RKB
DATE: 11/14/17
SUBMITTAL STAGE: 100% - FINAL

DRAWN BY: RKB
CHECKED BY: SJ

1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
F: 702.804.2209
ENGINEERS\ SURVEYORS gcwengineering.com

GOWAN NORTH - EL CAPITAN BRANCH
LONE MOUNTAIN ROAD TO ANN ROAD

LATERAL PROFILES
WASHBURN ROAD

RECORD
DRAWINGS

COVER SHEET SEALED
11/14/2017

ENGINEER OF RECORD:
STEPHEN M. JONES
P.E. No. 19638

SHEET

SD11

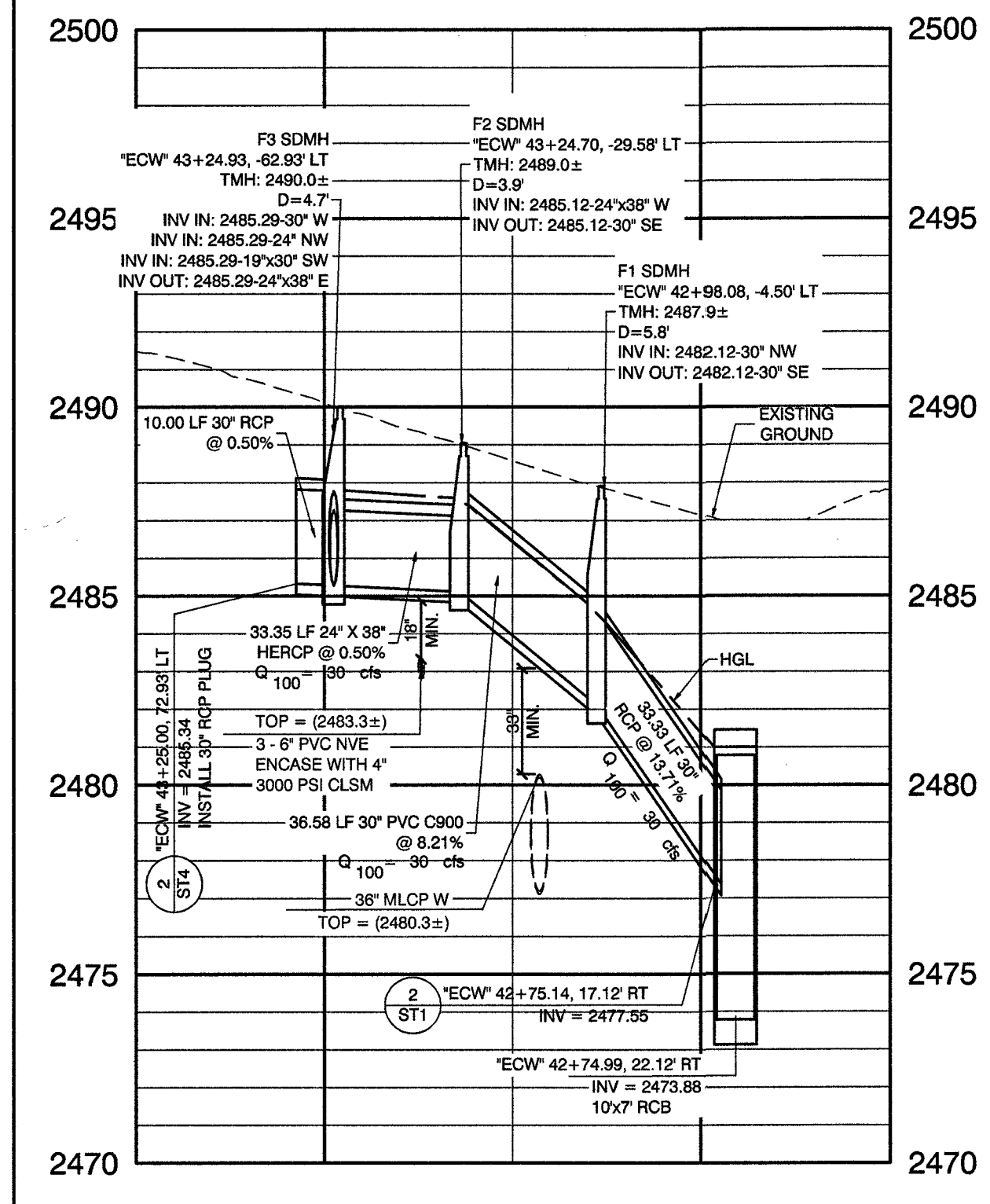
33 OF 52

DRAWING NO.
327V294

REVISIONS
NO. DATE

RECORD DRAWINGS

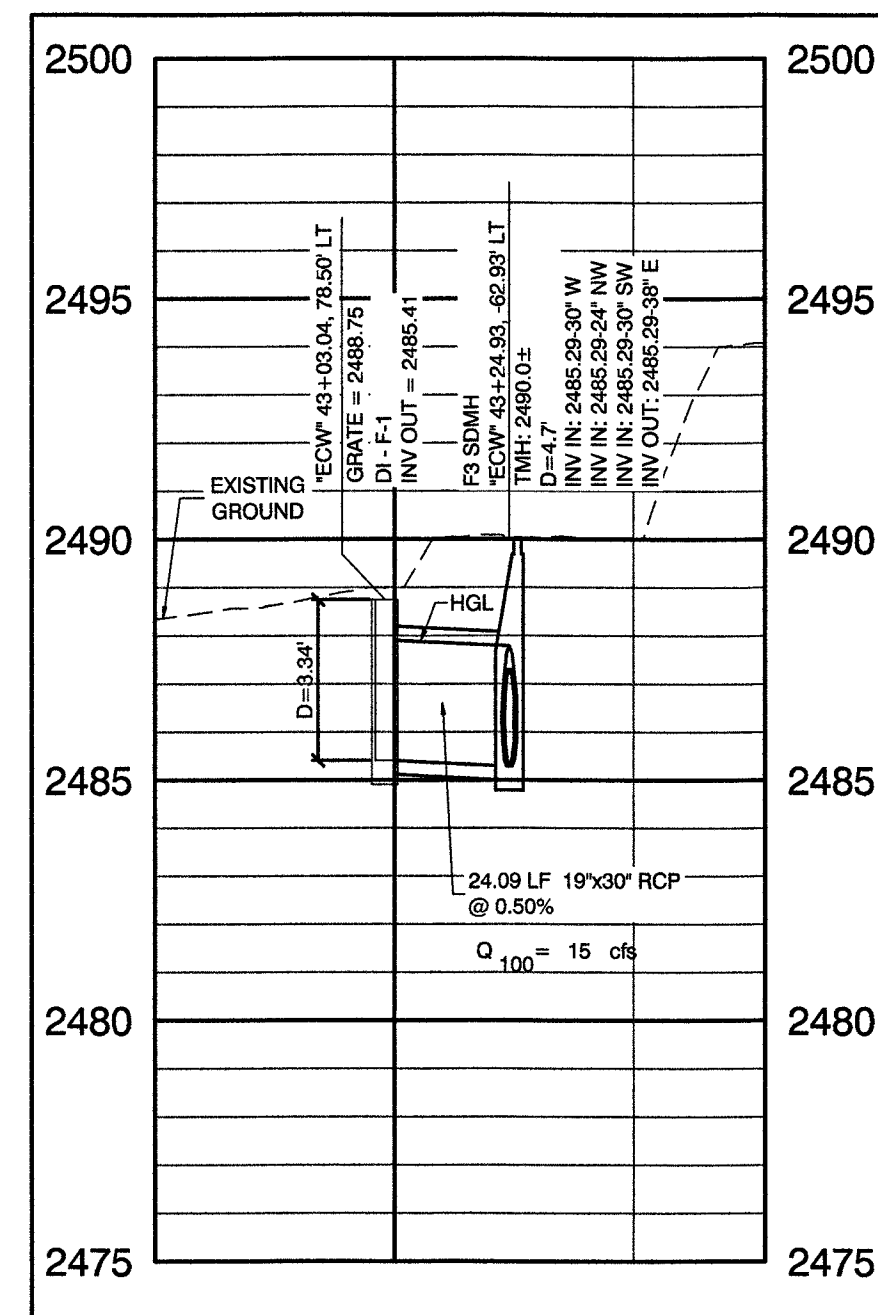
RECORD DRAWINGS COMPLETED: JANUARY 2020
BY GCW, INC.
PROJECT FINAL COMPLETION: OCTOBER 9, 2019
CONTRACTOR: LAS VEGAS PAVING CORP.
CONSTRUCTION MANAGER: DIVERSIFIED CONSULTING SERVICES
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**STORM DRAIN LATERAL
FISHER AVENUE**

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

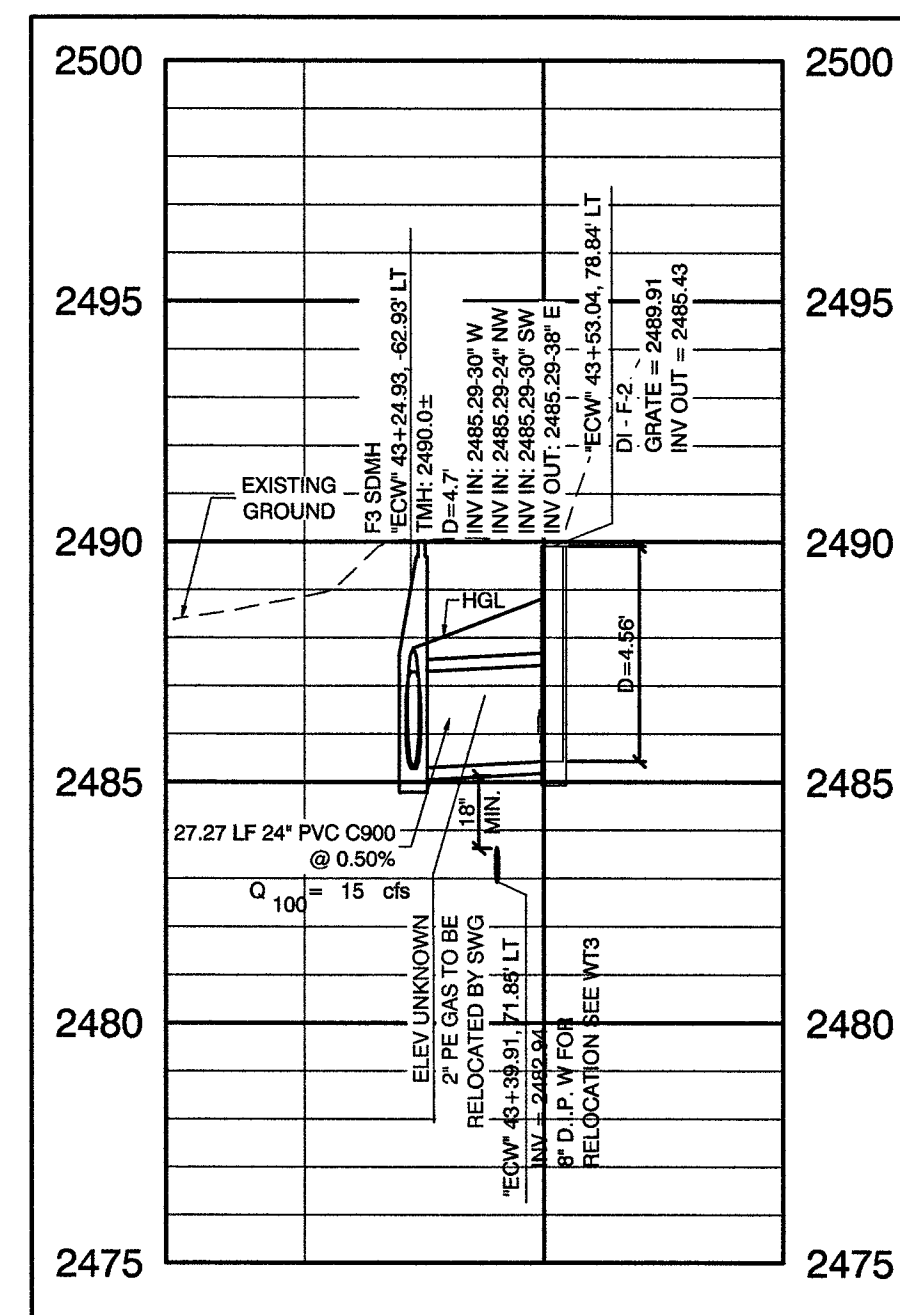
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**STORM DRAIN LATERAL
FISHER AVENUE**

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

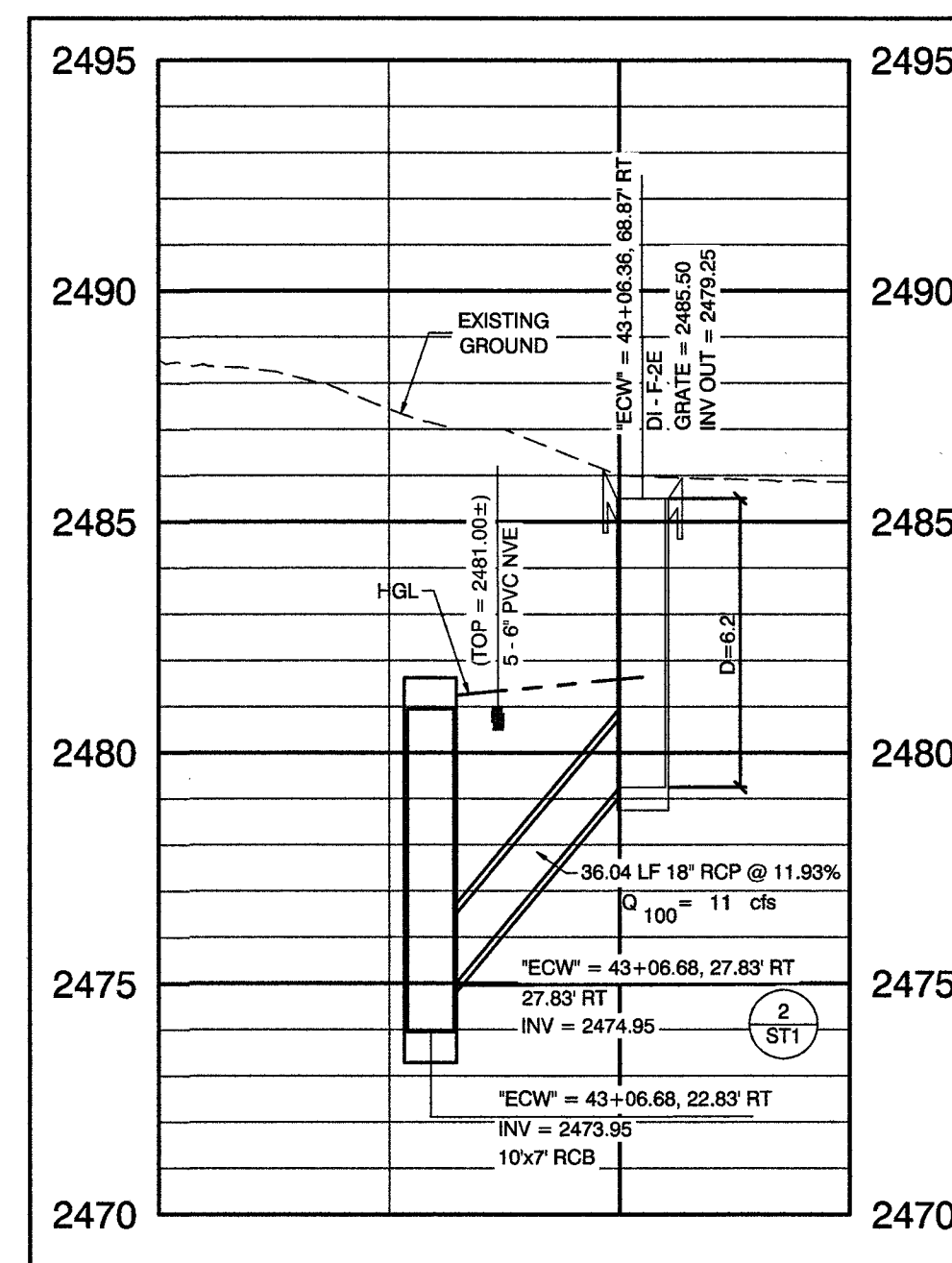
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SD12



**STORM DRAIN LATERAL
FISHER AVENUE**

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

3
SD12



**STORM DRAIN LATERAL
EL CAPITAN WAY**

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

4
SD12

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 BUILT, OR FLAT STRIP VINYLEX,
GREENSTREAK PLASTIC PRODUCTS OR APPROVER EQUAL.

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NOTE:

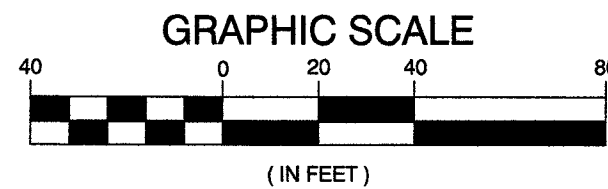
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SUPPORTED MUST BE PROVIDED TO LVWD ENGINEERING SERVICES.

CAUTION:
GASLINE RELOCATION NOTE

CONTRACTOR TO COORDINATE WITH SOUTHWEST GAS.



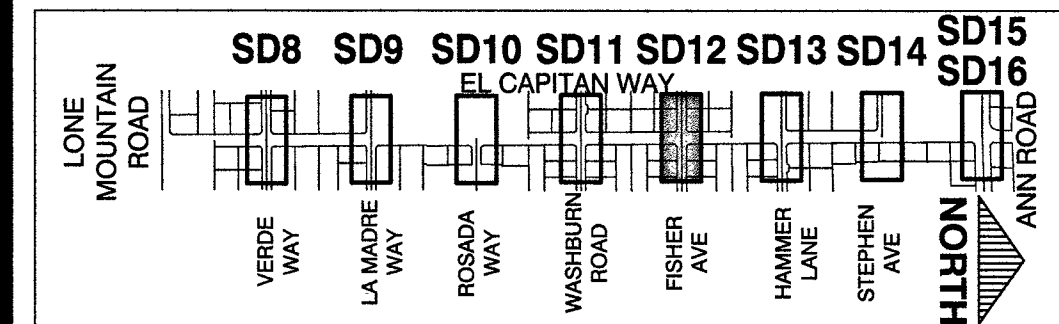
CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2800
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
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KEY MAP



APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT No. 125005 FIRST APPROVED DATE: 11/21/17

PREPARED BY

CITY OF LAS VEGAS

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

GCW
ENGINEERS & SURVEYORS

BID# 17-69991
DESIGNED BY: RKB
DRAWN BY: RKB
CHECKED BY: SJ

GOWAN NORTH - EL CAPITAN BRANCH
LONE MOUNTAIN ROAD TO ANN ROAD
LATERAL PROFILES
FISHER AVENUE

TITLE

RECORD
DRAWINGS

COVER SHEET SEALED
11/14/2017

ENGINEER OF RECORD:
STEPHEN M. JONES
P.E. No. 19638

SHEET

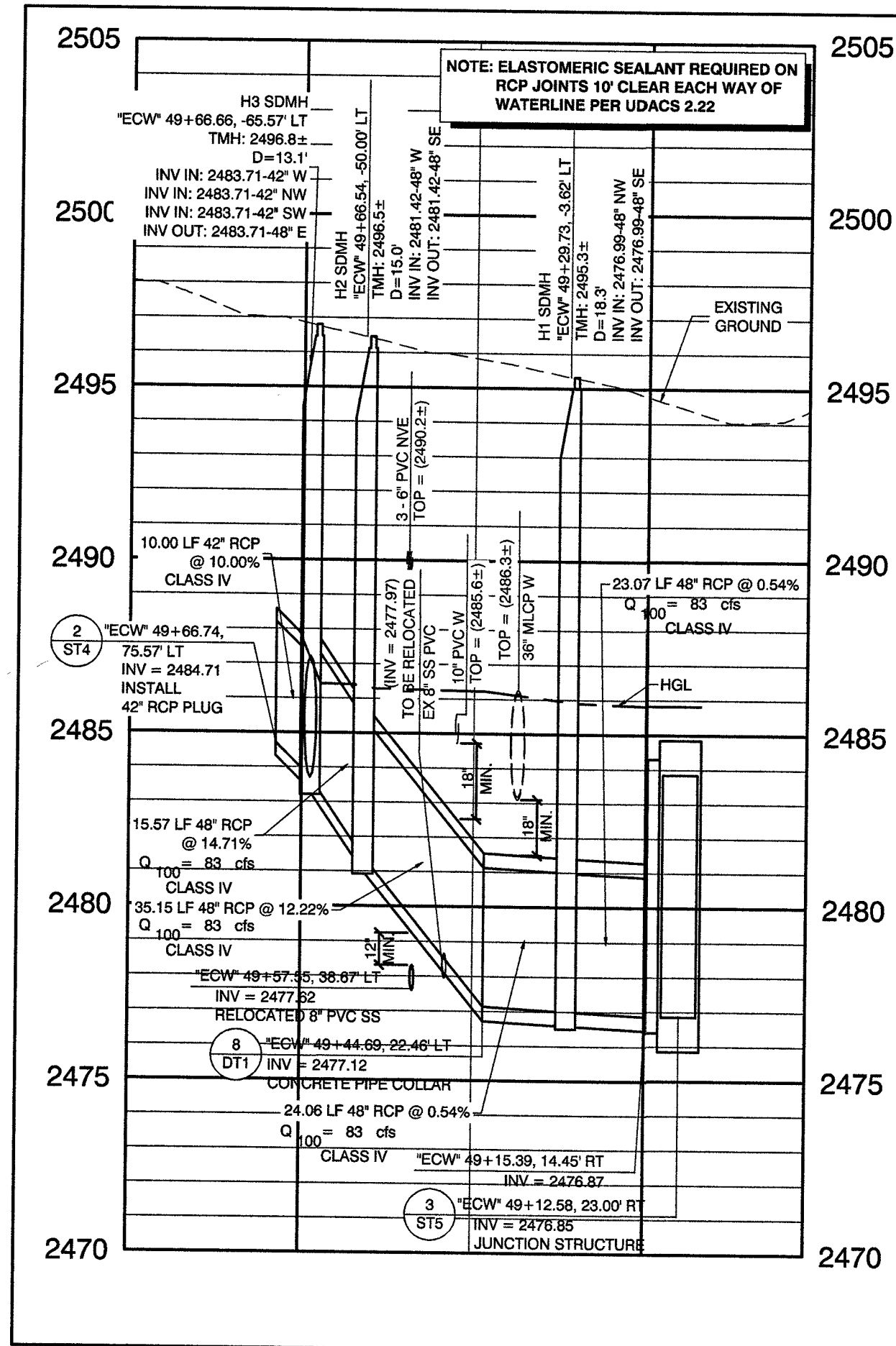
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34 OF 52

DRAWING NO.
327V294

REVISIONS

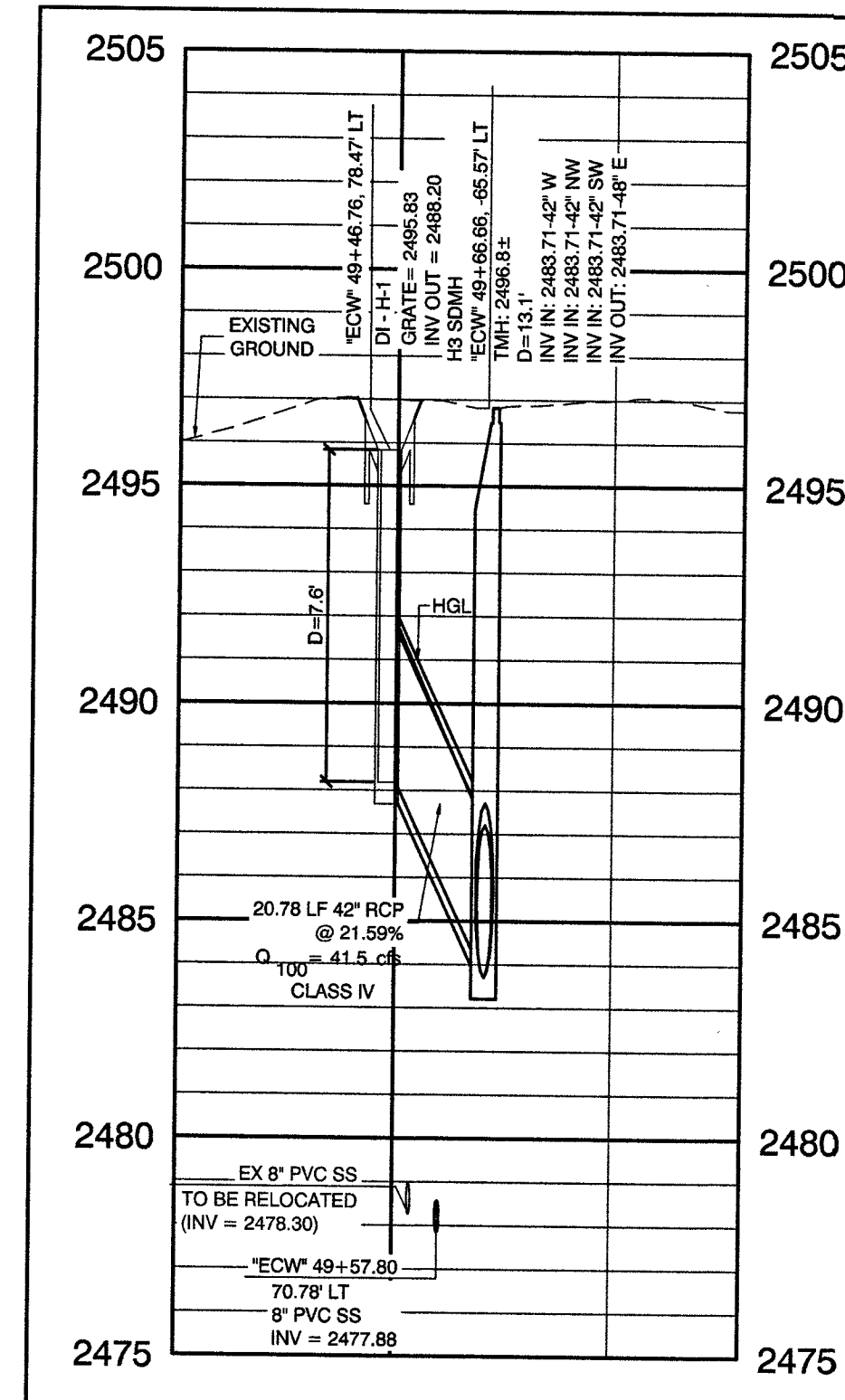
NO. DATE



**STORM DRAIN LATERAL
HAMMER LANE**

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

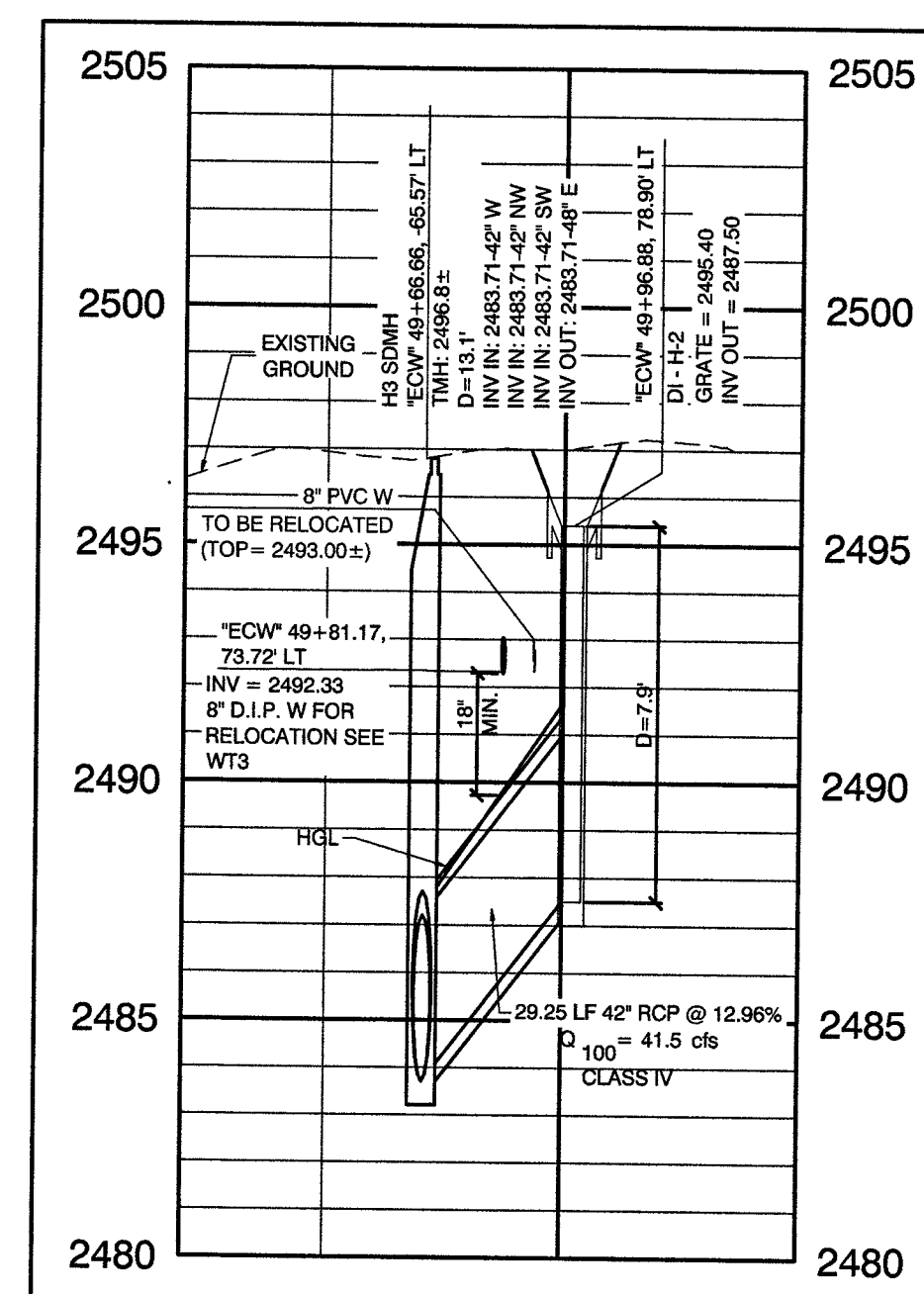
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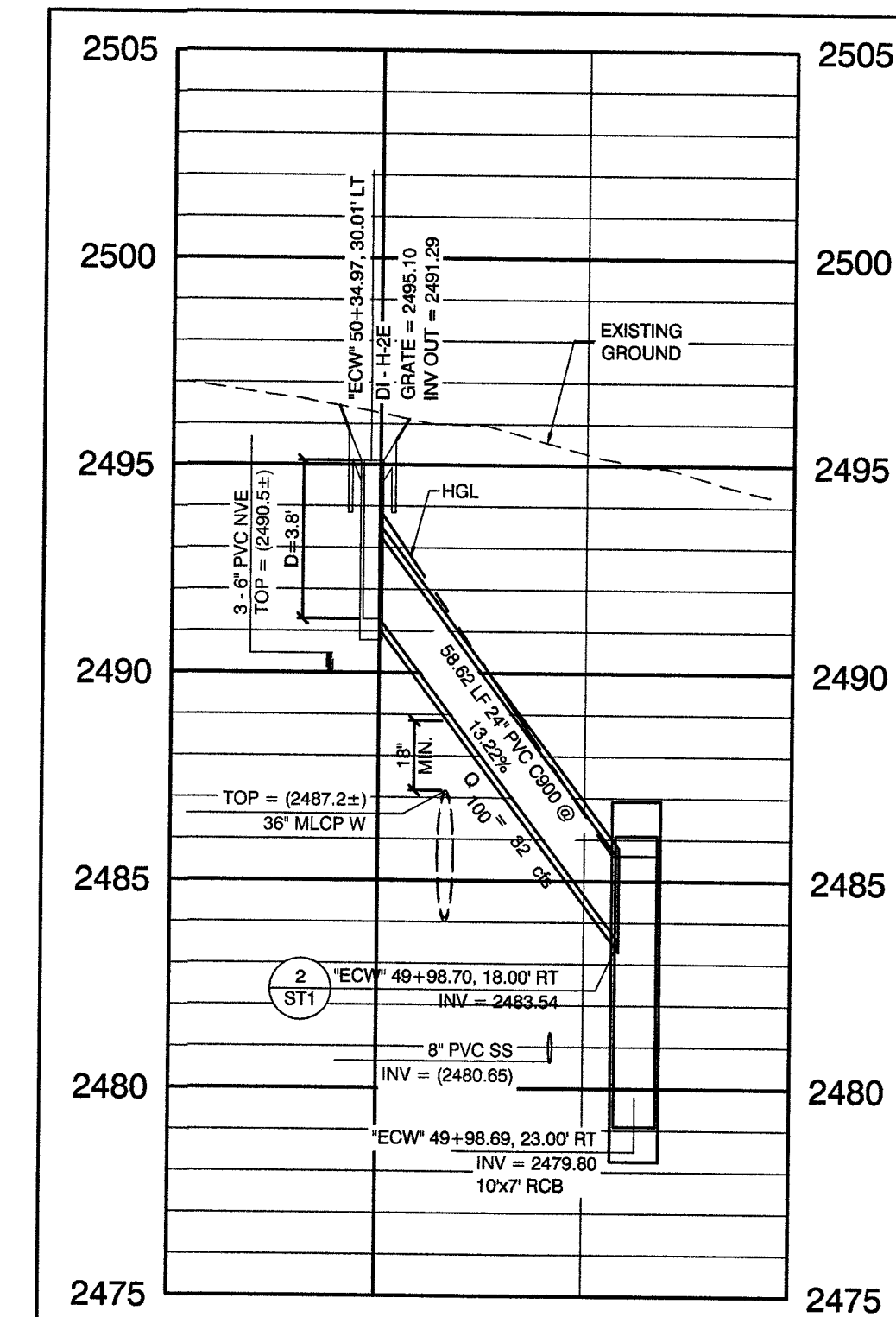
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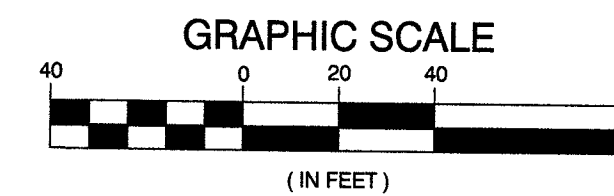
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**STORM DRAIN LATERAL
EL CAPITAN WAY**

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

4
SD13



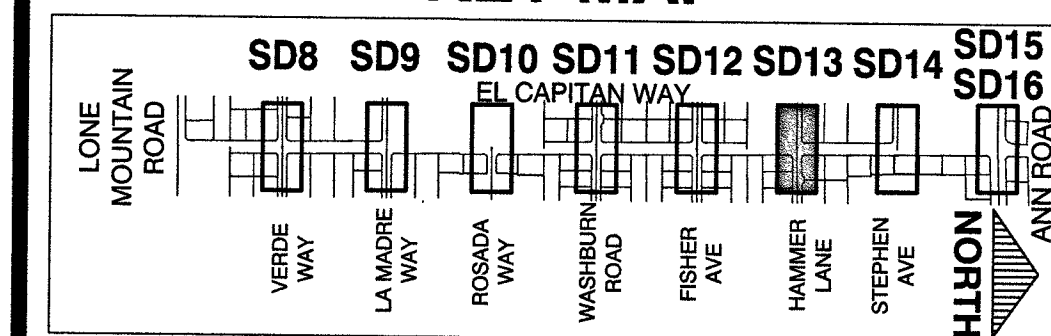
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LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT No. 125005 FIRST APPROVED DATE: 11/21/17

PREPARED BY

CITY OF LAS VEGAS

GOWAN NORTH - EL CAPITAN BRANCH
LONE MOUNTAIN ROAD TO ANN ROAD

LATERAL PROFILES
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TITLE SHEET

RECORD
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ENGINEER OF RECORD:
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SHEET

SD13

35 OF 52
DRAWING NO.
327V294

REVISIONS

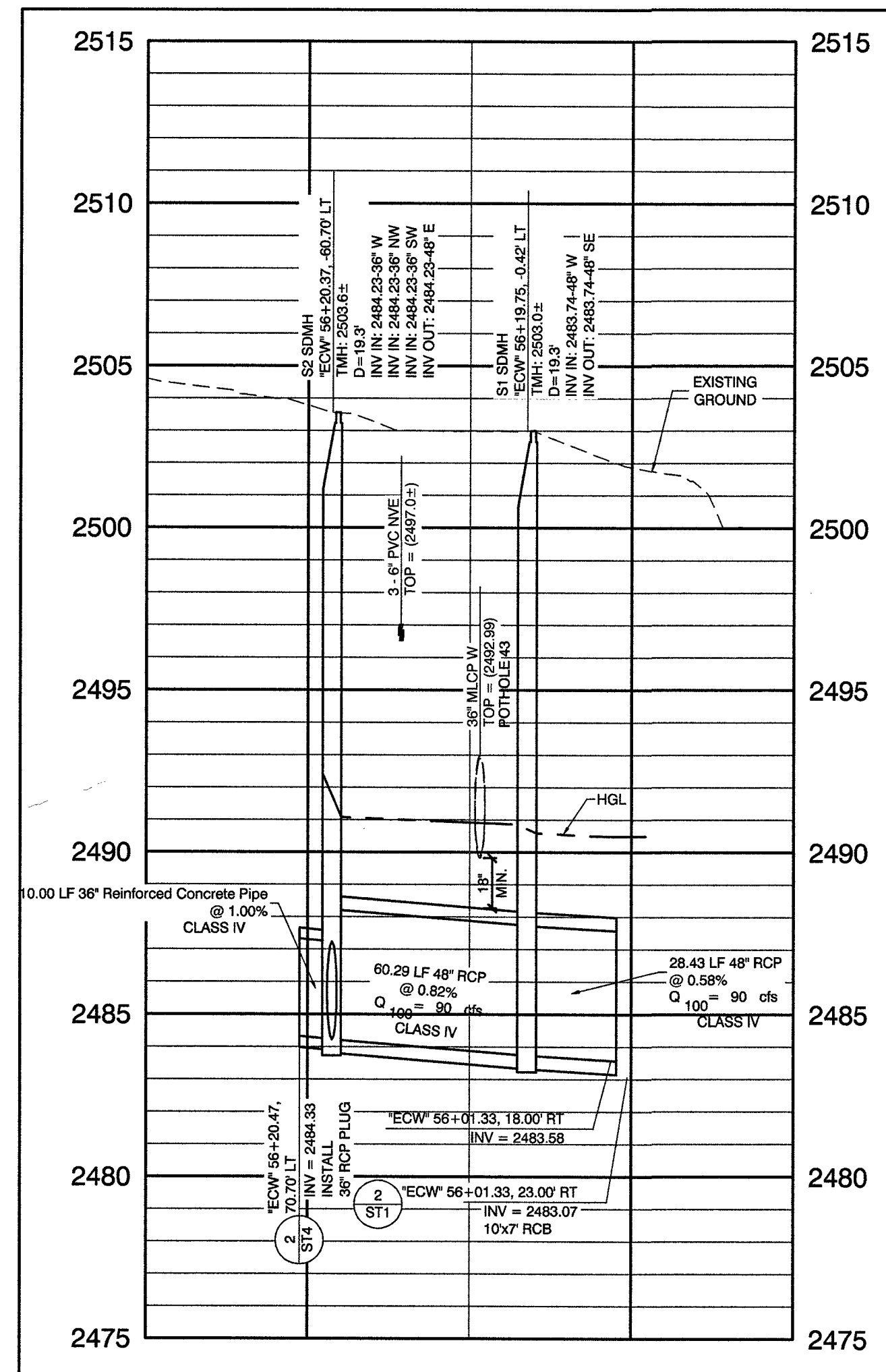
NO. DATE

1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
P: 702.804.2000
F: 702.804.2001
www.gowengineering.com

GCW
ENGINEERS & SURVEYORS

BID# 17-69891
DESIGNED BY: RKB
DRAWN BY: RKB
CHECKED BY: SJ

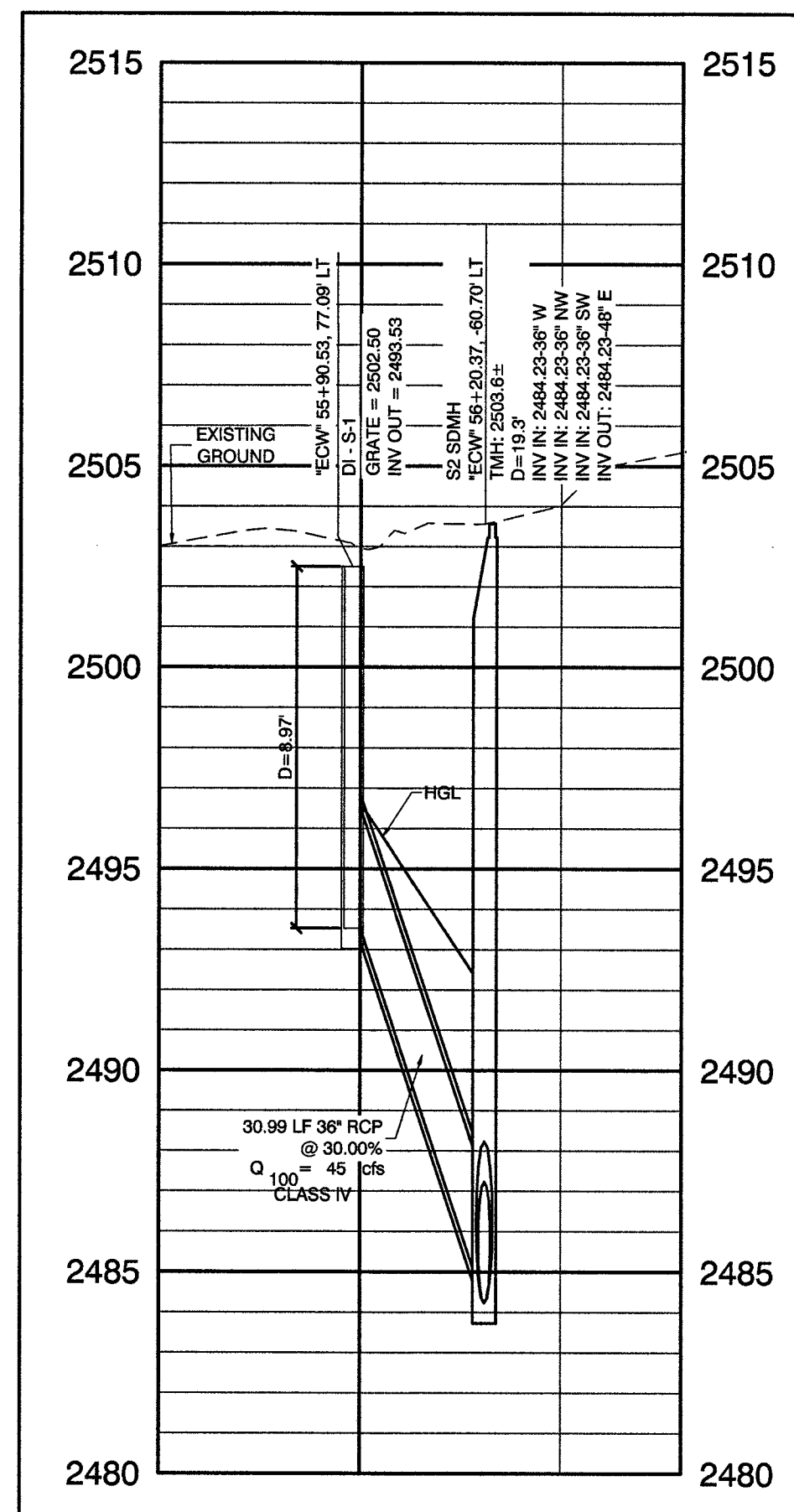
DATE: 11/14/17
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SCALE: HORIZ. 1" = 40'
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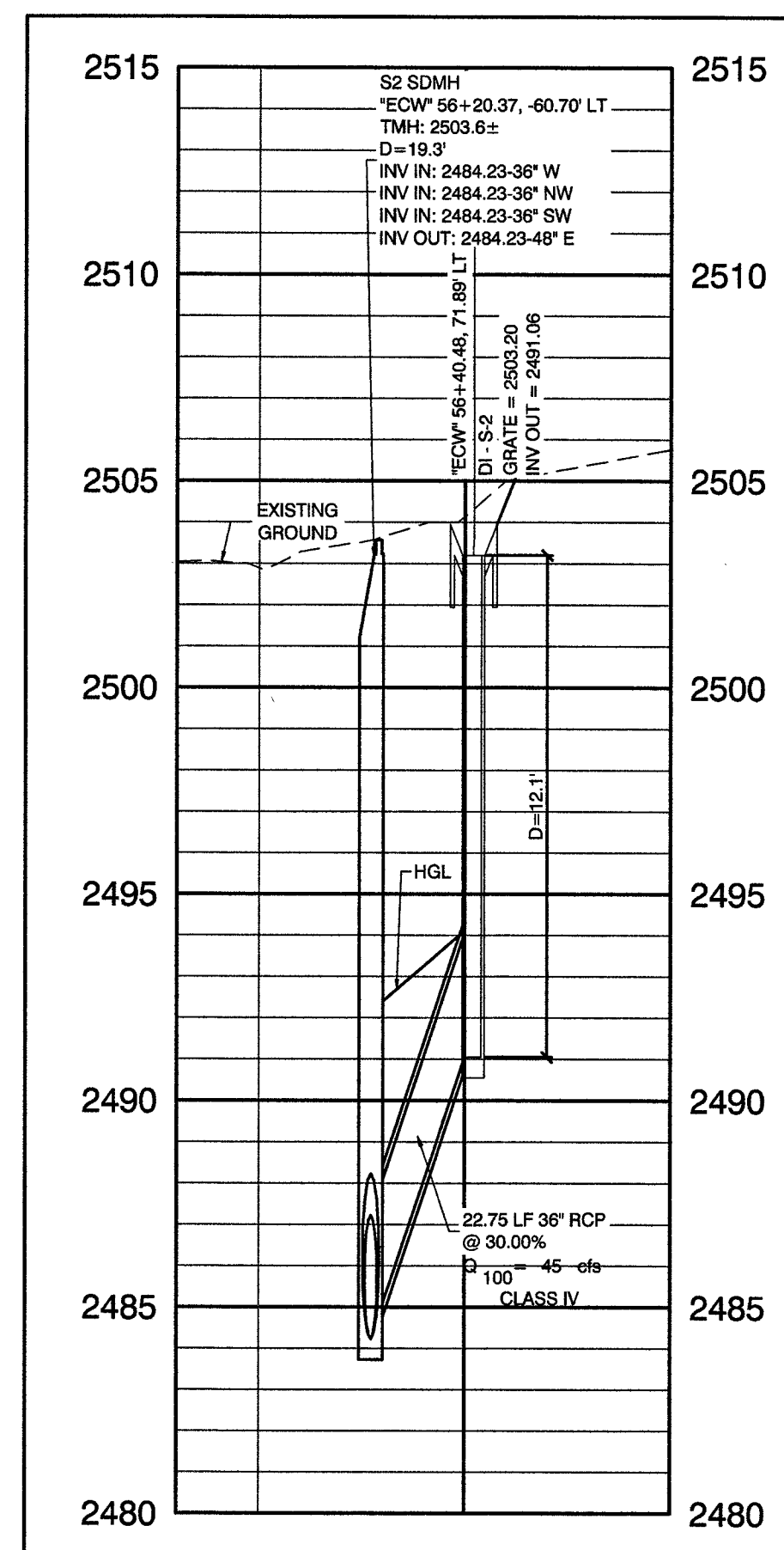
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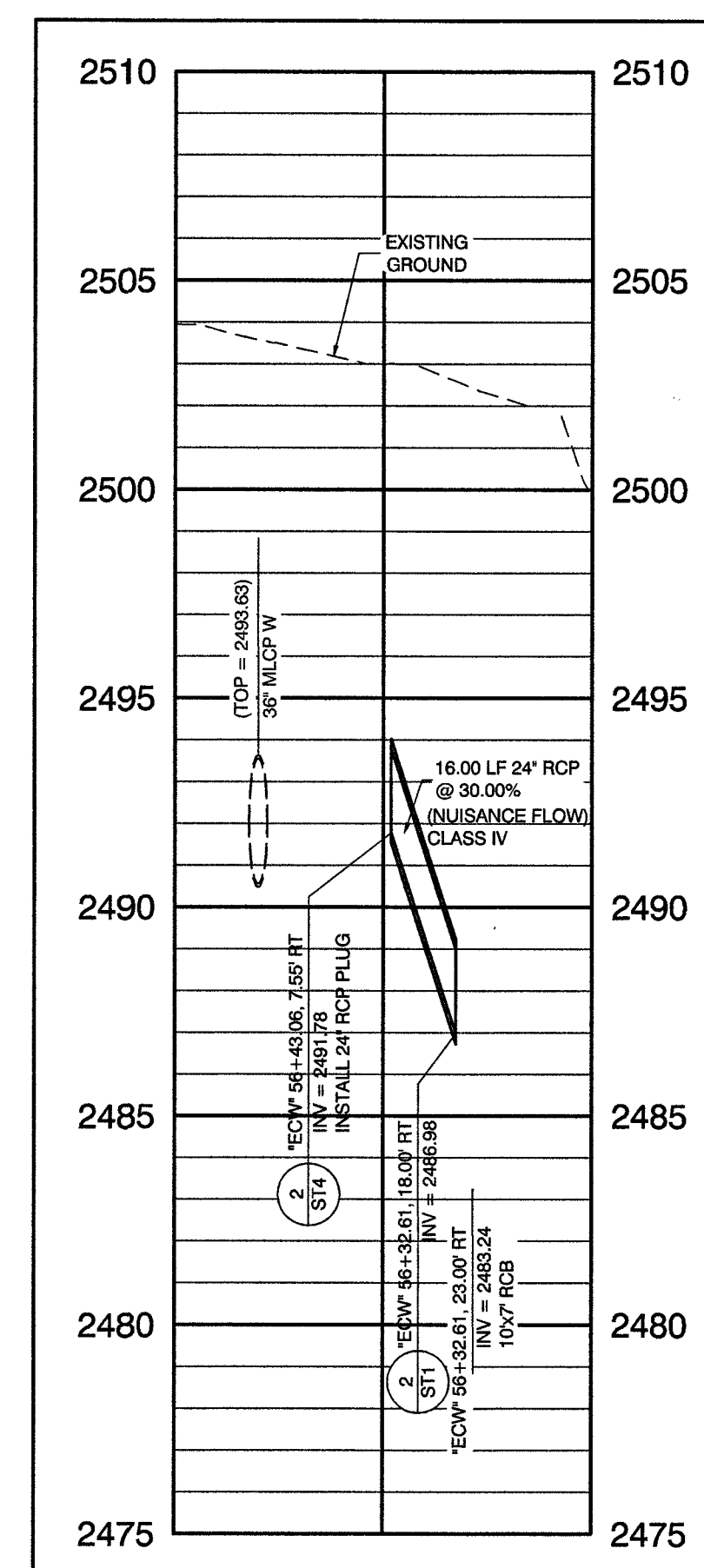
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3
SD14



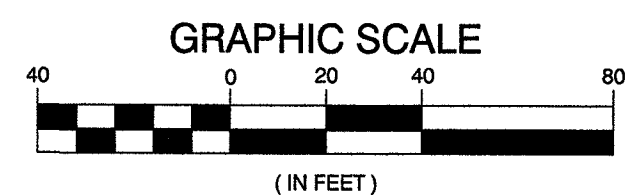
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SD14

RECORD DRAWINGS

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PROJECT FINAL COMPLETION: OCTOBER 9, 2019
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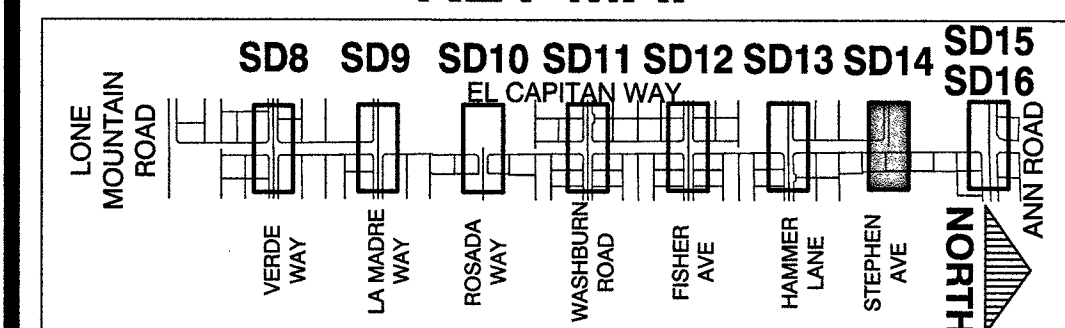
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PROJECT No. 125005 FIRST APPROVED DATE: 11/21/17

PREPARED BY: GCW 1555 S. RAINBOW BLVD. LAS VEGAS, NV 89146 P: 702.804.2000 F: 702.804.2000 ENGINEERS\ SURVEYORS gcwengineering.com		DESIGNED BY: RKB DRAWN BY: RKB CHECKED BY: SJ	
DATE: 11/14/17 SUBMITTAL STAGE: 100% - FINAL		NO. DATE	
REVISIONS		NO. DATE	

PREPARED FOR: **CITY OF LAS VEGAS**

GOWAN NORTH - EL CAPITAN BRANCH
LONE MOUNTAIN ROAD TO ANN ROAD

LATERAL PROFILES
STEPHEN AVENUE

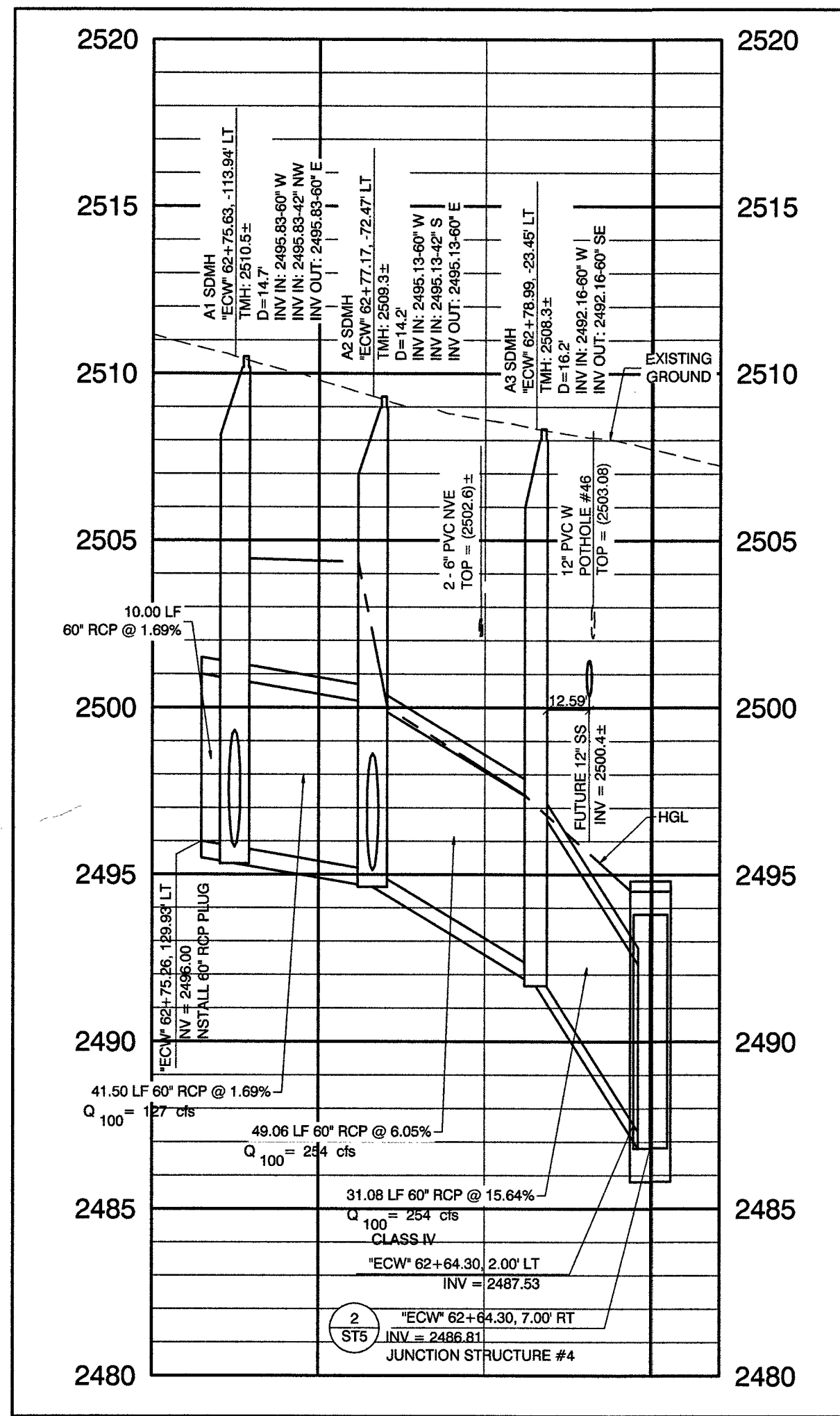
RECORD DRAWINGS

COVER SHEET SEALED
11/14/2017

ENGINEER OF RECORD:
STEPHEN M. JONES
P.E. No. 19638

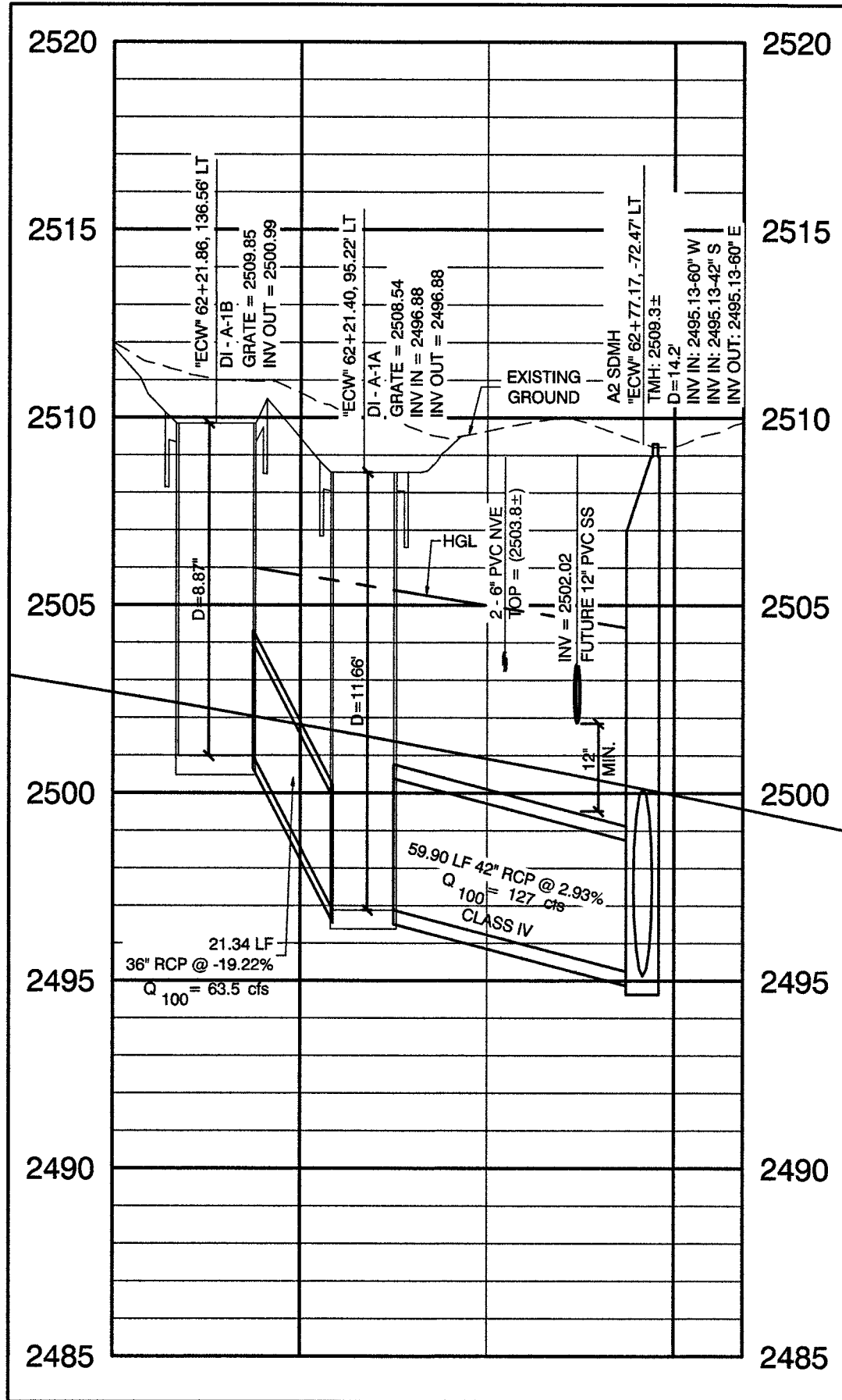
SHEET

SD14
36 OF 52
DRAWING NO.
327V294



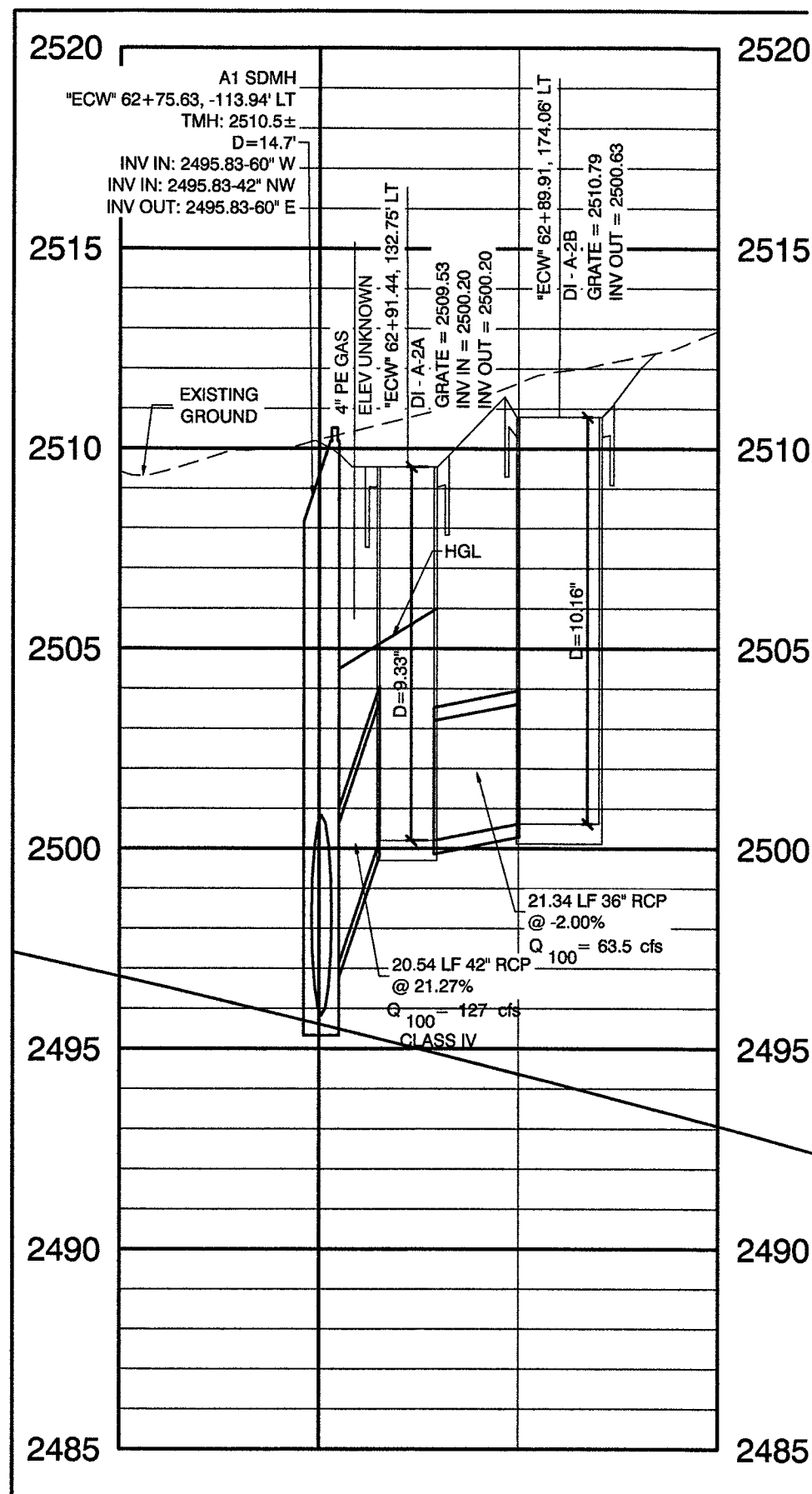
**STORM DRAIN LATERAL
ANN ROAD**
SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

1
SD15



**STORM DRAIN LATERAL
ANN ROAD**
SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

2
SD15

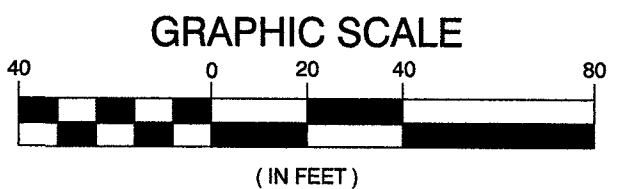


**STORM DRAIN LATERAL
ANN ROAD**
SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

3
SD15

RECORD DRAWINGS
RECORD DRAWINGS COMPLETED: JANUARY 2020
BY GCW, INC.
PROJECT FINAL COMPLETION: OCTOBER 9, 2019
CONTRACTOR: LAS VEGAS PAVING CORP.
CONSTRUCTION MANAGER: DIVERSIFIED CONSULTING SERVICES
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**CAUTION:
GASLINE RELOCATION NOTE**
CONTRACTOR TO COORDINATE WITH SOUTHWEST GAS.

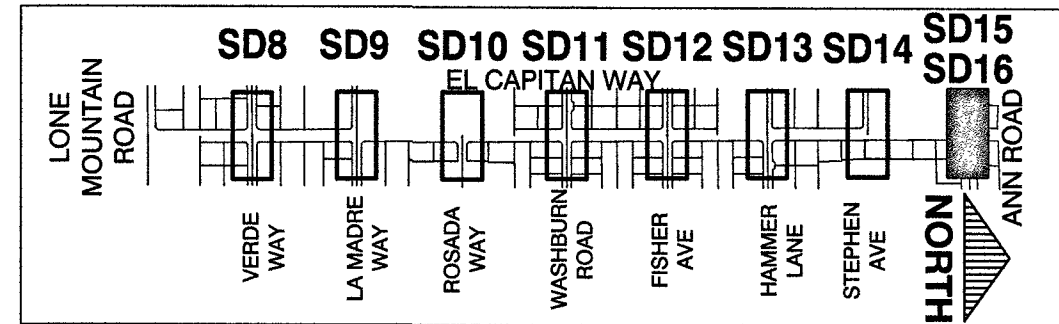


CALL BEFORE CONSTRUCTION		
BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-8611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

DISCLAIMER NOTE

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KEY MAP



CONTROLLED LOW STRENGTH:
PROTECT WATERLINES IN PLACE. WHENEVER A WATERLINE IS ABOVE A STORM DRAIN OR SEWER WHERE COMPACTION REQUIREMENTS UNDER A WATERLINE CANNOT BE MET, BACKFILL TRENCH WITH CLASS I CONTROLLED LOW STRENGTH MATERIAL (CLSM) TO THE SPRINGLINE OF THE WATERLINE. THIS REQUIREMENT IS FOR STRUCTURAL SUPPORT ONLY. ADDITIONAL HEALTH REGULATIONS MAY APPLY PER UDACS 2.22.

NOTE:
IN AREAS WHERE THE EXCAVATION OR GROUND ELEVATION IS LESS THAN THREE (3) FEET FROM THE TOP OF THE LVWD TRANSMISSION MAIN, NO EXCAVATION EQUIPMENT, OTHER THAN HAND HELD EQUIPMENT, WILL BE ALLOWED WITHIN TEN (10) FEET OF ANY PIPELINE IN THESE AREAS. THE CONTRACTOR IS TO PLACE A CONCRETE BARRIER, I.E. JERSEY RAIL, TO IDENTIFY AND PROTECT THE NO EQUIPMENT ZONE.

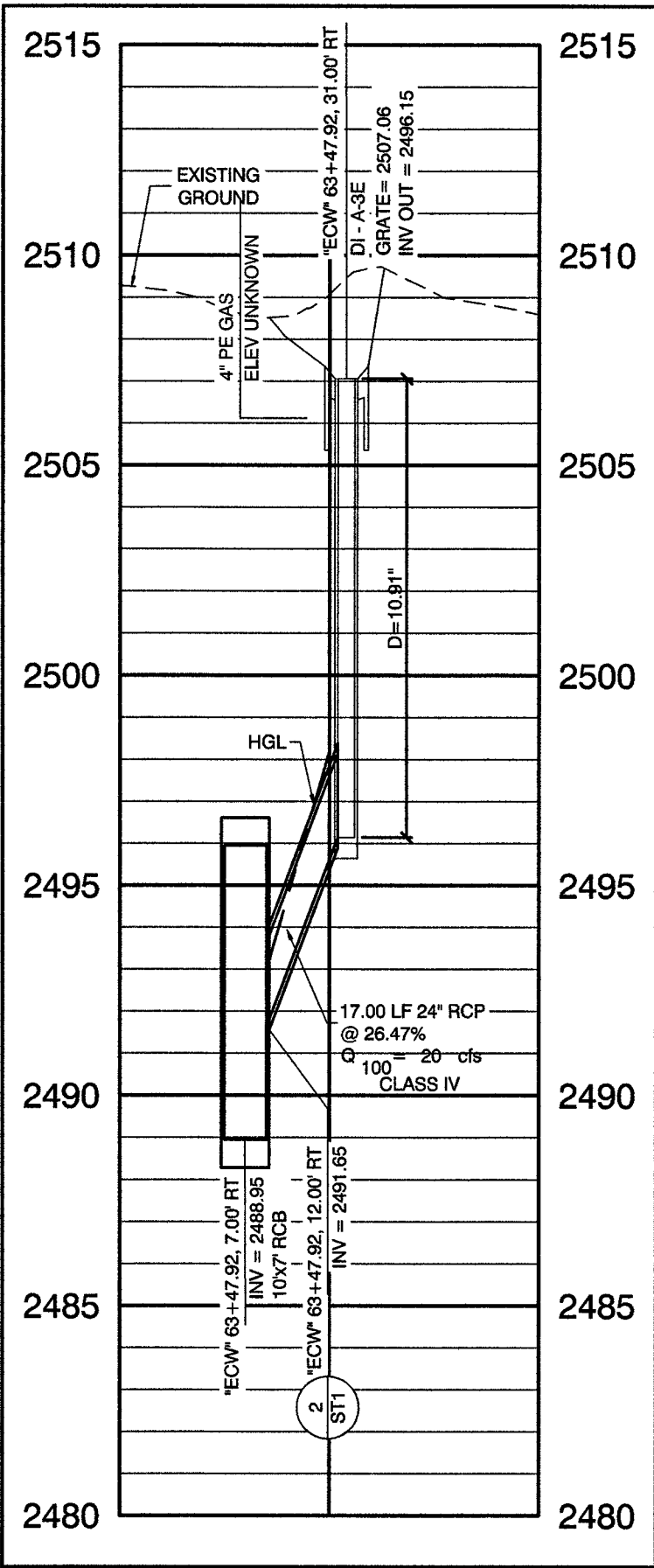
TRANSMISSION MAIN STRUCTURAL SUPPORT
CONTRACTOR SHALL SUBMIT STRUCTURAL CALCULATIONS PREPARED BY A NEVADA LICENSED STRUCTURAL ENGINEER FOR CROSSINGS WITH WATER WHERE THE TRENCH IS 8-FEET OR GREATER. CONTACT ENGINEERING SERVICES FOR INDICATIONS ON PACKAGE SUBMITTAL. PIPE SUPPORT PACKAGE MUST BE SUBMITTED A MINIMUM OF 30 DAYS PRIOR TO COMMENCEMENT OF WORK. PIPE SUPPORTS FOR TRANSMISSION MAINS (24-INCH AND LARGER) WILL BE LIMITED TO A MAXIMUM OF 1 WEEK. A SCHEDULE OF WATER MAINS SUPPORTED MUST BE PROVIDED TO LVWD ENGINEERING SERVICES.

APPROVED FOR CONSTRUCTION
PREVIOUSLY SIGNED BY MIKE DISHARI ON 3/26/18
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT No. 125005 FIRST APPROVED DATE: 11/21/17

TITLE		GOWAN NORTH - EL CAPITAN BRANCH LONE MOUNTAIN ROAD TO ANN ROAD	
SHEET		LATERAL PROFILES ANN ROAD - 1	
PREPARED BY	DESIGNED BY	DRAWN BY	CHECKED BY
GCW	RKB	RKB	SJ
BID# 17-65891	DATE: 11/14/17	SUBMITTAL STAGE: 100% - FINAL	
H# 63691	100% - FINAL		
RECORD DRAWINGS			
COVER SHEET SEALED 11/14/2017			
ENGINEER OF RECORD: STEPHEN M. JONES P.E. No. 19638			
SHEET			
SD15			
37 OF 52			
DRAWING NO. 327V294			

RECORD DRAWINGS
RECORD DRAWINGS COMPLETED: JANUARY 2020
BY GCW, INC.
PROJECT FINAL COMPLETION: OCTOBER 9, 2019
CONTRACTOR: LAS VEGAS PAVING CORP.
CONSTRUCTION MANAGER: DIVERSIFIED CONSULTING SERVICES
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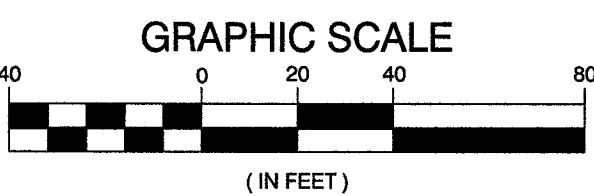
**STORM DRAIN LATERAL
EL CAPITAN WAY**
SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

2
SD16

CONTROLLED LOW STRENGTH:
PROTECT WATERLINES IN PLACE. WHENEVER A WATERLINE IS
ABOVE A STORM DRAIN OR SEWER WHERE COMPACTION
REQUIREMENTS UNDER A WATERLINE CANNOT BE MET, BACKFILL
TRENCH WITH CLASS I CONTROLLED LOW STRENGTH MATERIAL
(CLSM) TO THE SPRINGLINE OF THE WATERLINE. THIS
REQUIREMENT IS FOR STRUCTURAL SUPPORT ONLY. ADDITIONAL
HEALTH REGULATIONS MAY APPLY PER UDACS 2.22.

NOTE:
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LESS THAN THREE (3) FEET, FROM THE TOP OF THE LVWD
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FEET OF ANY PIPELINE IN THESE AREAS. THE CONTRACTOR IS TO
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PROTECT THE NO EQUIPMENT ZONE.

TRANSMISSION MAIN STRUCTURAL SUPPORT
CONTRACTOR SHALL SUBMIT STRUCTURAL CALCULATIONS PREPARED
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SUBMITTAL. PIPE SUPPORT PACKAGE MUST BE SUBMITTED A
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SUPPORTED MUST BE PROVIDED TO LVWD ENGINEERING SERVICES.

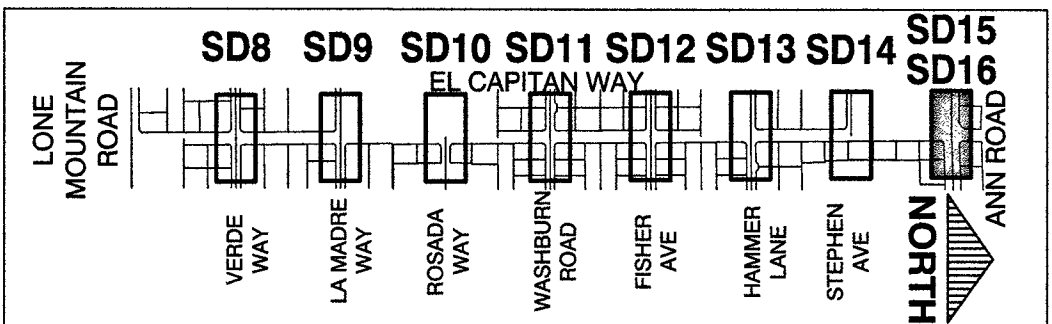


CALL BEFORE CONSTRUCTION		
BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6811
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

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KEY MAP



PREPARED FOR
CITY OF LAS VEGAS

BID# 17-63691
H# 63691

DESIGNED BY: RKB
DATE: 11/14/17

DRAWN BY: RKB
SUBMITTAL STAGE: 100% - FINAL

CHECKED BY: SJ

TITLE
**GOWAN NORTH - EL CAPITAN BRANCH
LONE MOUNTAIN ROAD TO ANN ROAD**

SHEET
**LATERAL PROFILES
ANN ROAD - 2**

**RECORD
DRAWINGS**

COVER SHEET SEALED
11/14/2017

ENGINEER OF RECORD:
STEPHEN M. JONES
P.E. No. 19638

SHEET

SD16

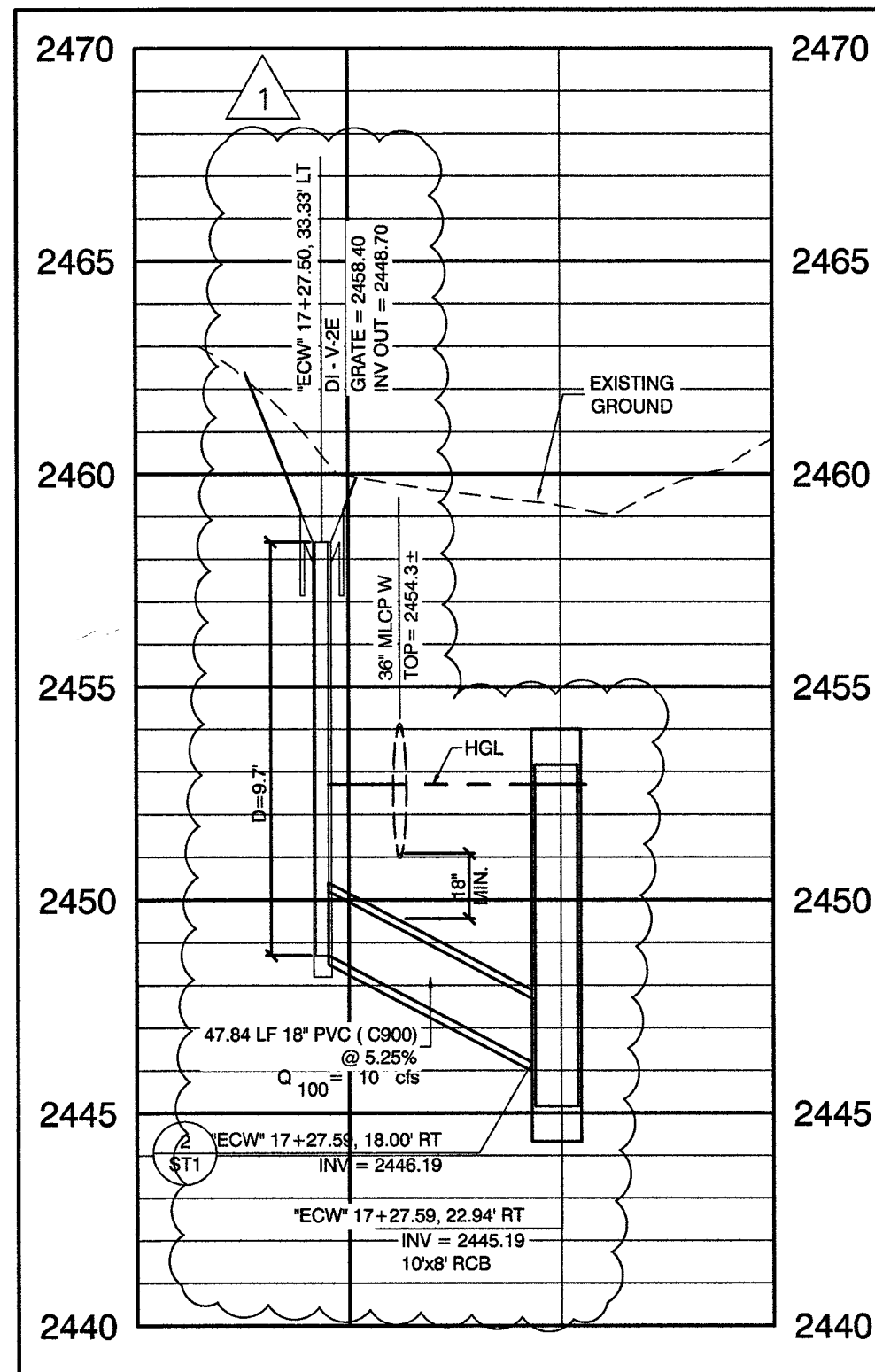
38 OF 52

DRAWING NO.
327V294

PREPARED BY
GCW
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
P: 702.804.2000
F: 702.804.2000
ENGINEERS\ SURVEYORS
gcwengineering.com

OBTAINED BLM EASEMENT
NO. DATE
8/21/18

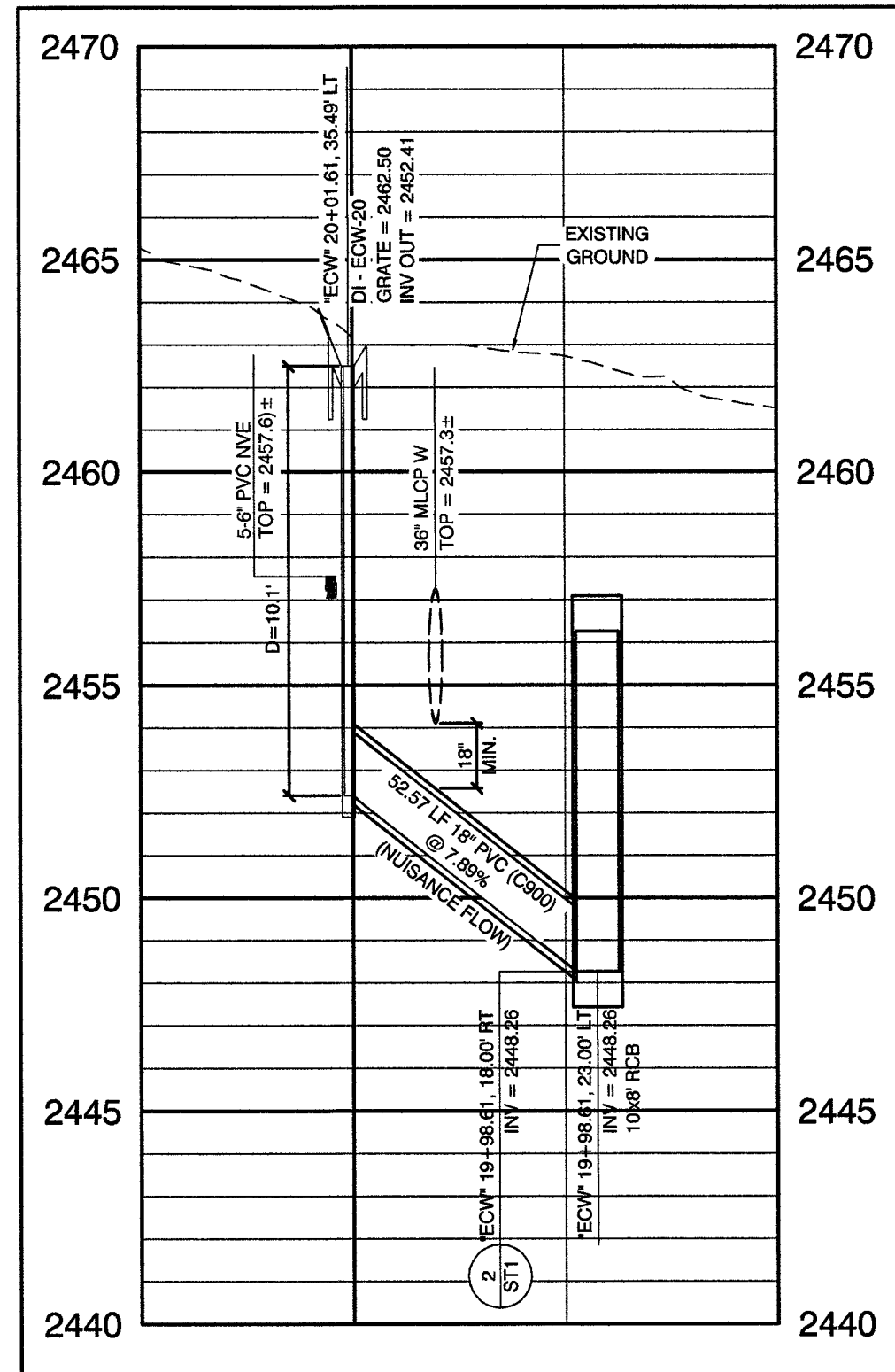
REVISIONS



STORM DRAIN LATERAL EL CAPITAN WAY

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

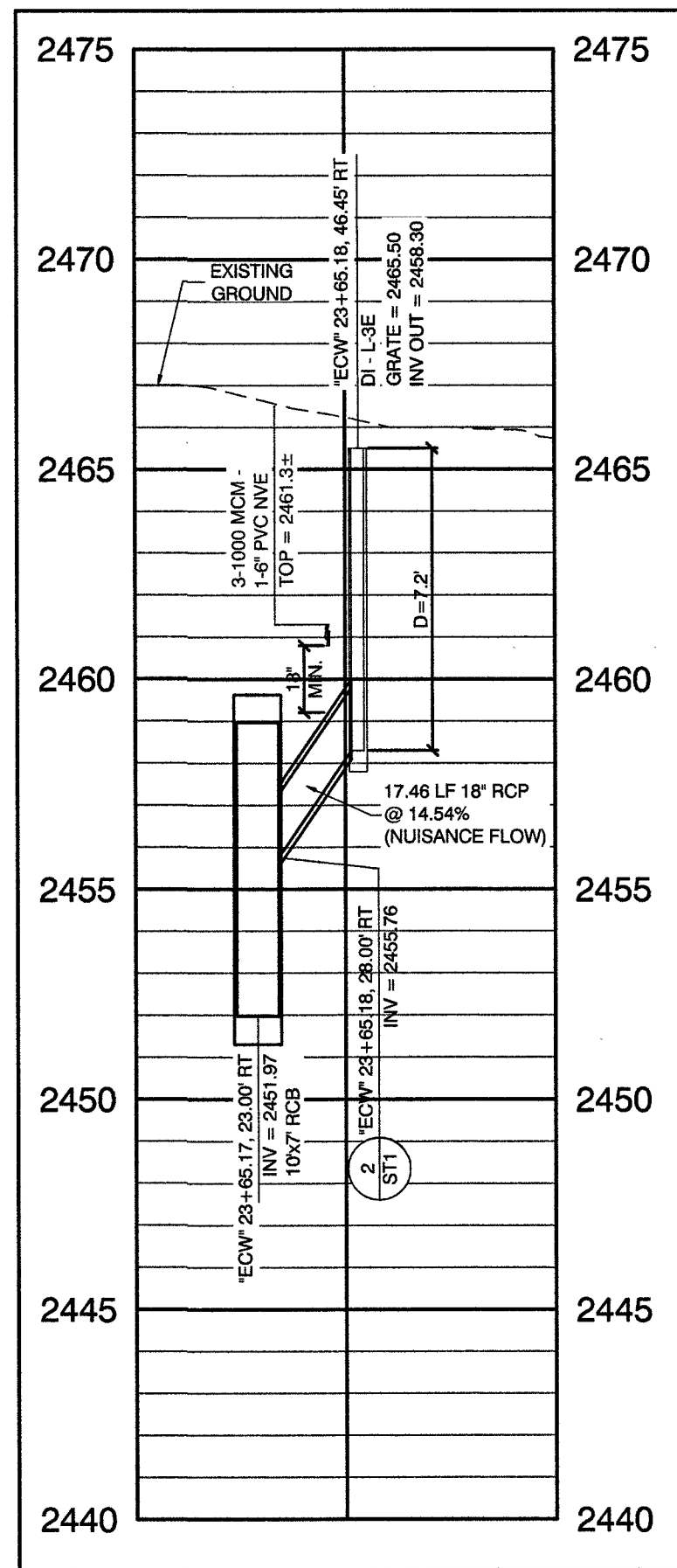
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SD17



STORM DRAIN LATERAL EL CAPITAN WAY

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

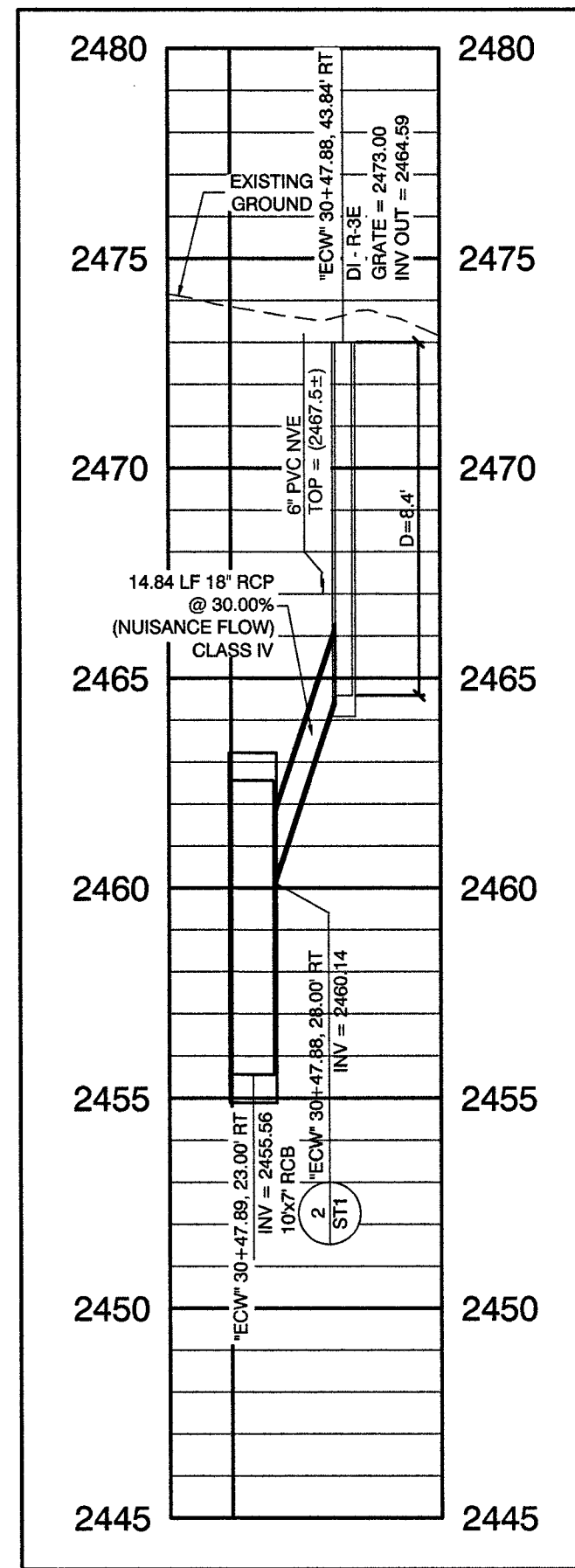
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STORM DRAIN LATERAL EL CAPITAN WAY

SCALE: HORIZ. 1" = 40'
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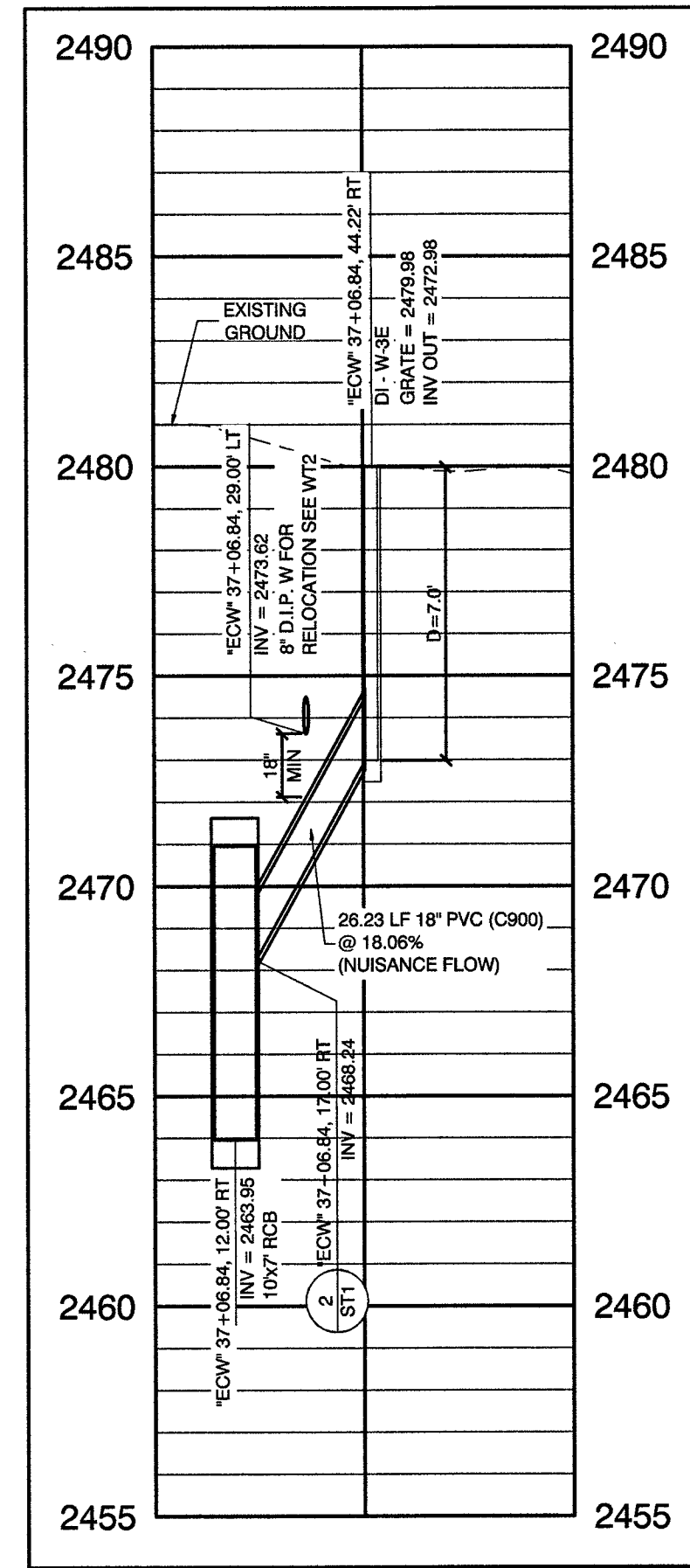
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SD17



STORM DRAIN LATERAL EL CAPITAN WAY

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

4
SD17



STORM DRAIN LATERAL EL CAPITAN WAY

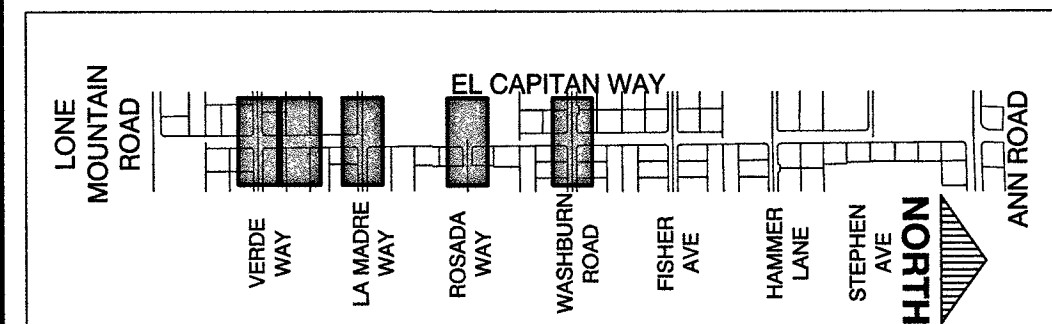
SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

5
SD17

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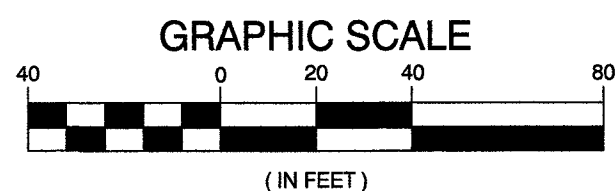
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APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 125005 FIRST APPROVED DATE: 11/21/17



CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2800
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6811
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

PREPARED BY

CITY OF LAS VEGAS

BID# 17-63691

DESIGNED BY: RKG

DRAWN BY: RKG

CHECKED BY: SJ

GOWAN NORTH - EL CAPITAN BRANCH
LONE MOUNTAIN ROAD TO ANN ROAD

LATERAL PROFILES
EL CAPITAN WAY - 1

RECORD
DRAWINGS

COVER SHEET SEALED
11/14/2017

ENGINEER OF RECORD:
STEPHEN M. JONES
P.E. No. 19638

SHEET

SD17

39 OF 52

DRAWING NO.

327V294

FINAL AS-BUILT

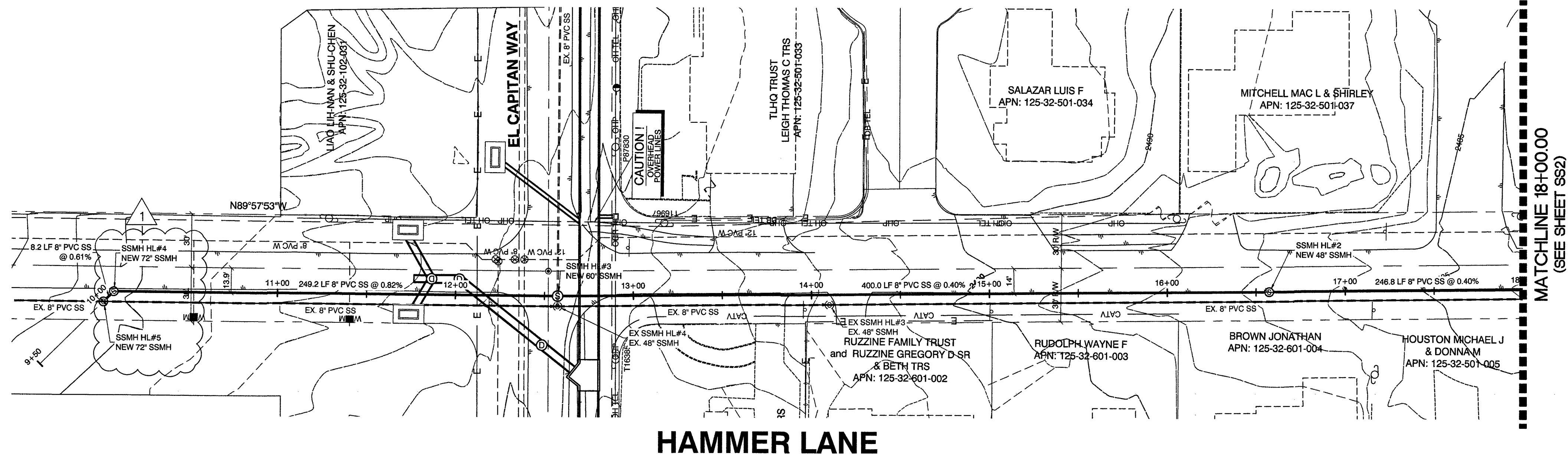
REVISIONS

NO. DATE

11/14/19

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

GCW
ENGINEERS & SURVEYORS

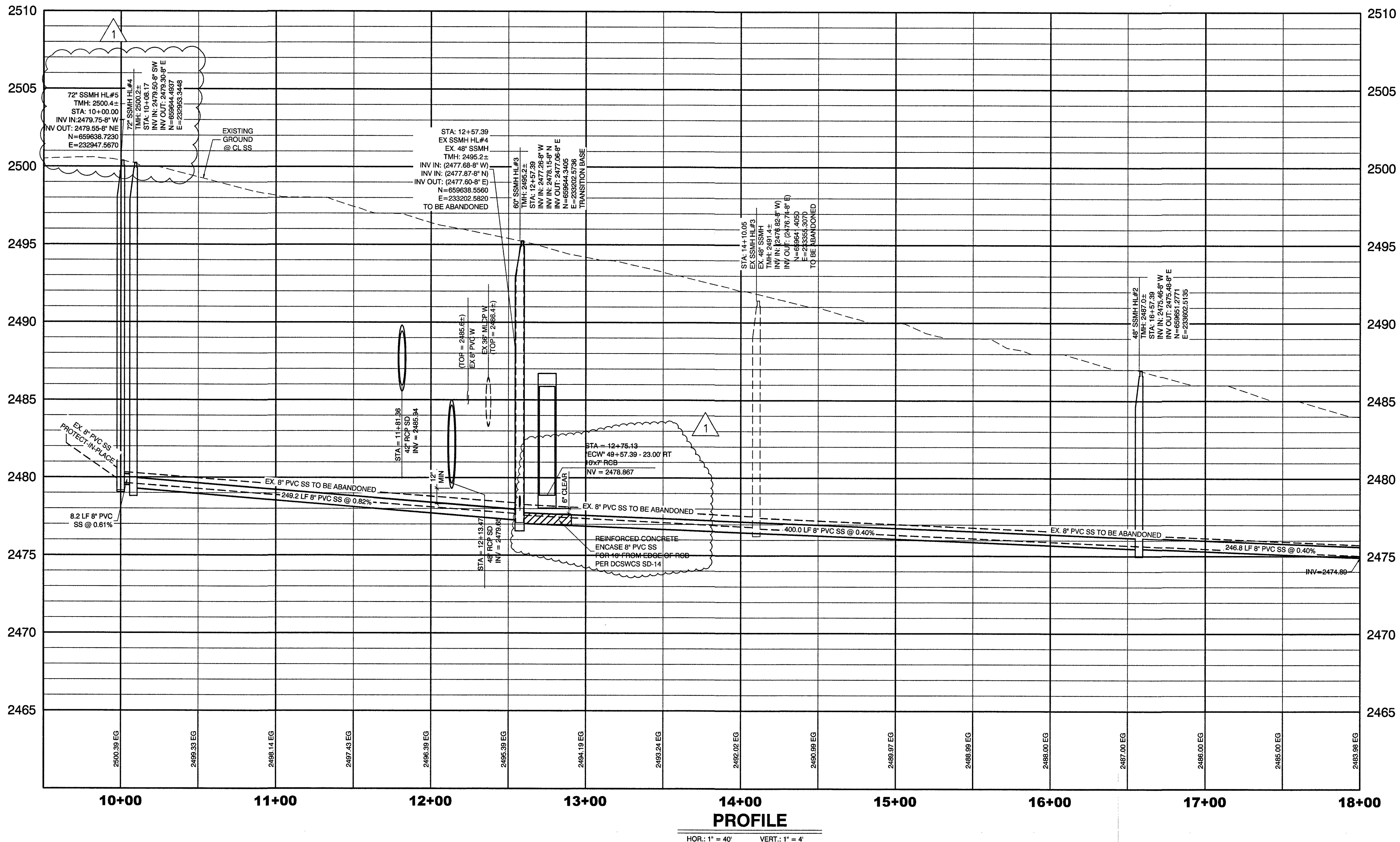


GRAPHIC SCALE
0 20 40 80
(IN FEET)

NORTH

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2800
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

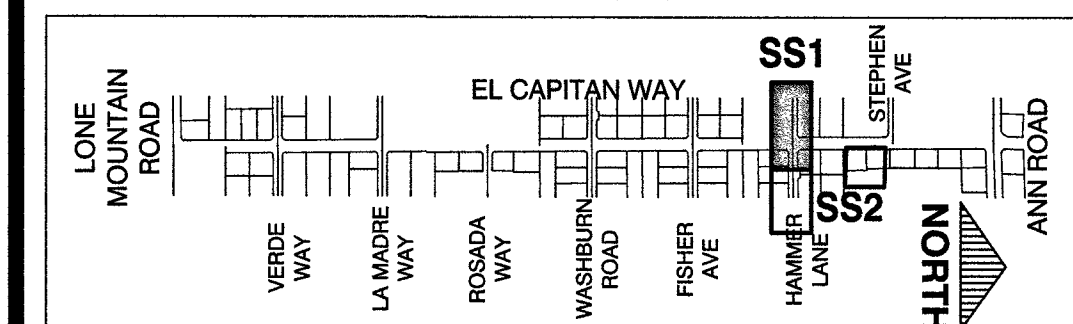


RECORD DRAWINGS
RECORD DRAWINGS COMPLETED: JANUARY 2020
BY GCW, INC.
PROJECT FINAL COMPLETION: OCTOBER 9, 2019
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CONSTRUCTION MANAGER: DIVERSIFIED CONSULTING SERVICES
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KEY MAP



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APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT No. 125005 FIRST APPROVED DATE: _____

PREPARED BY: **GCW**
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
ENGINEERS' SURVEYORS
growingengineering.com

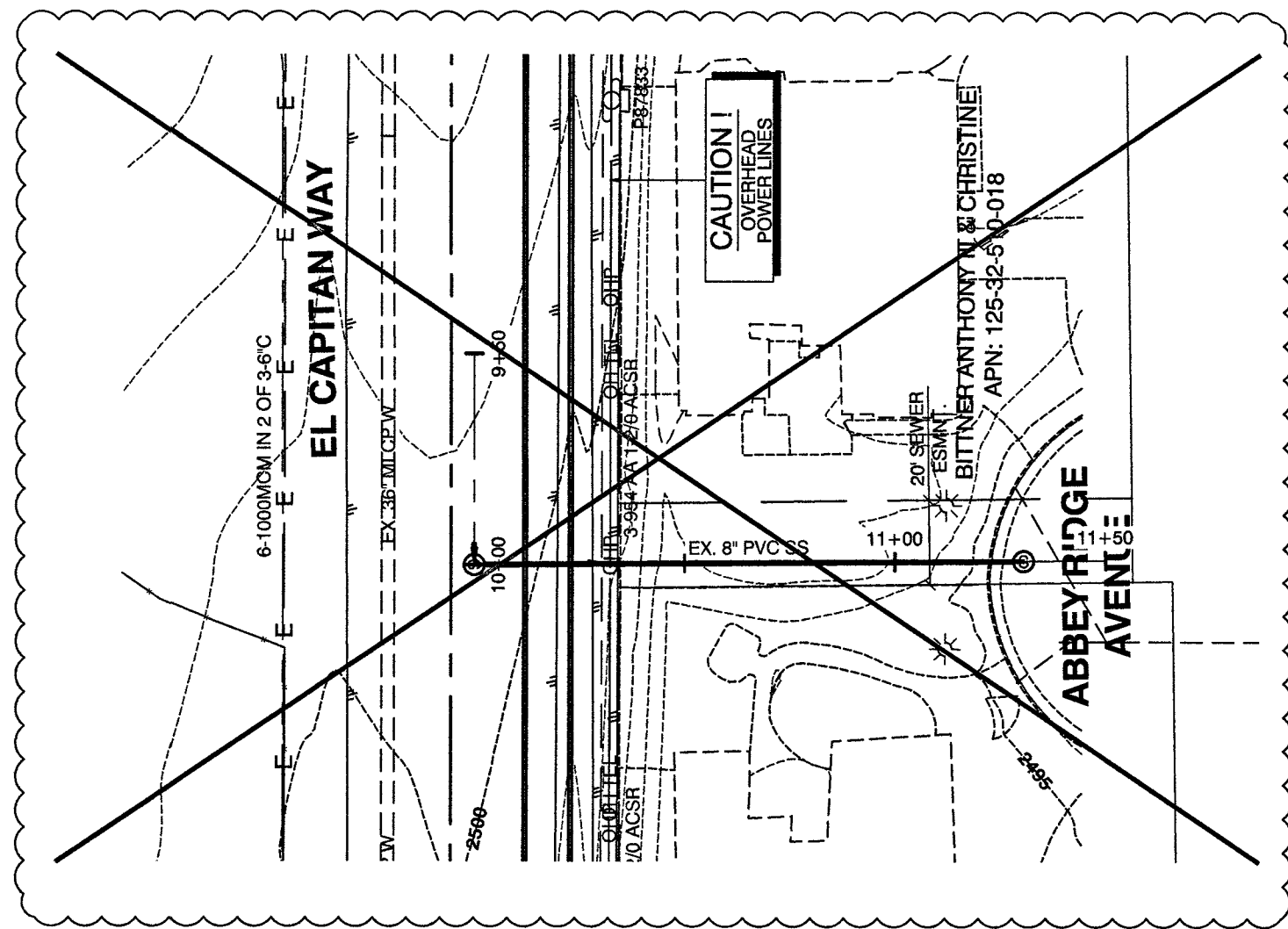
PREPARED FOR: **CITY OF LAS VEGAS**

BID# 17-63691
H# 63691
DESIGNED BY: RKB
DRAWN BY: RKB
CHECKED BY: SJ

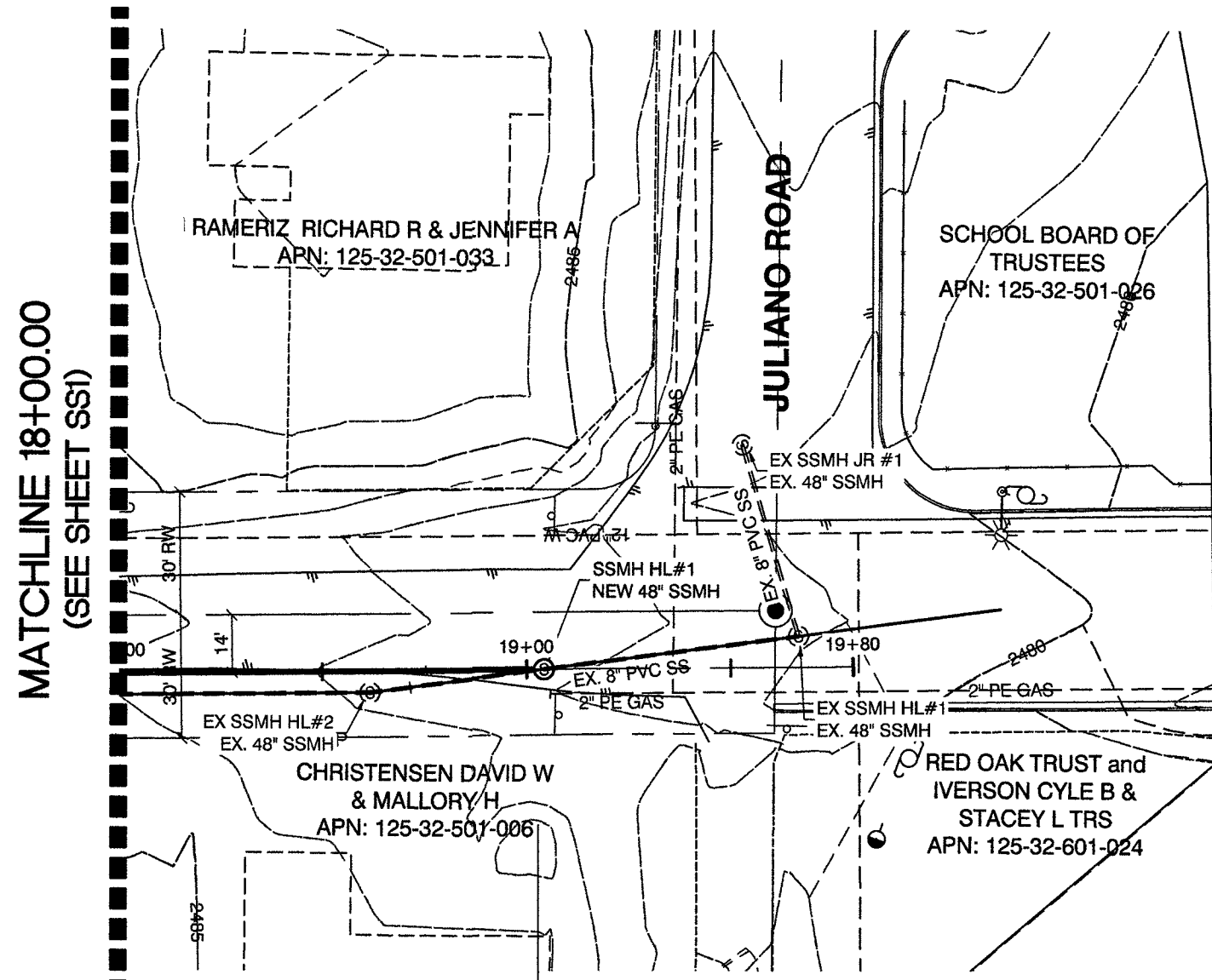
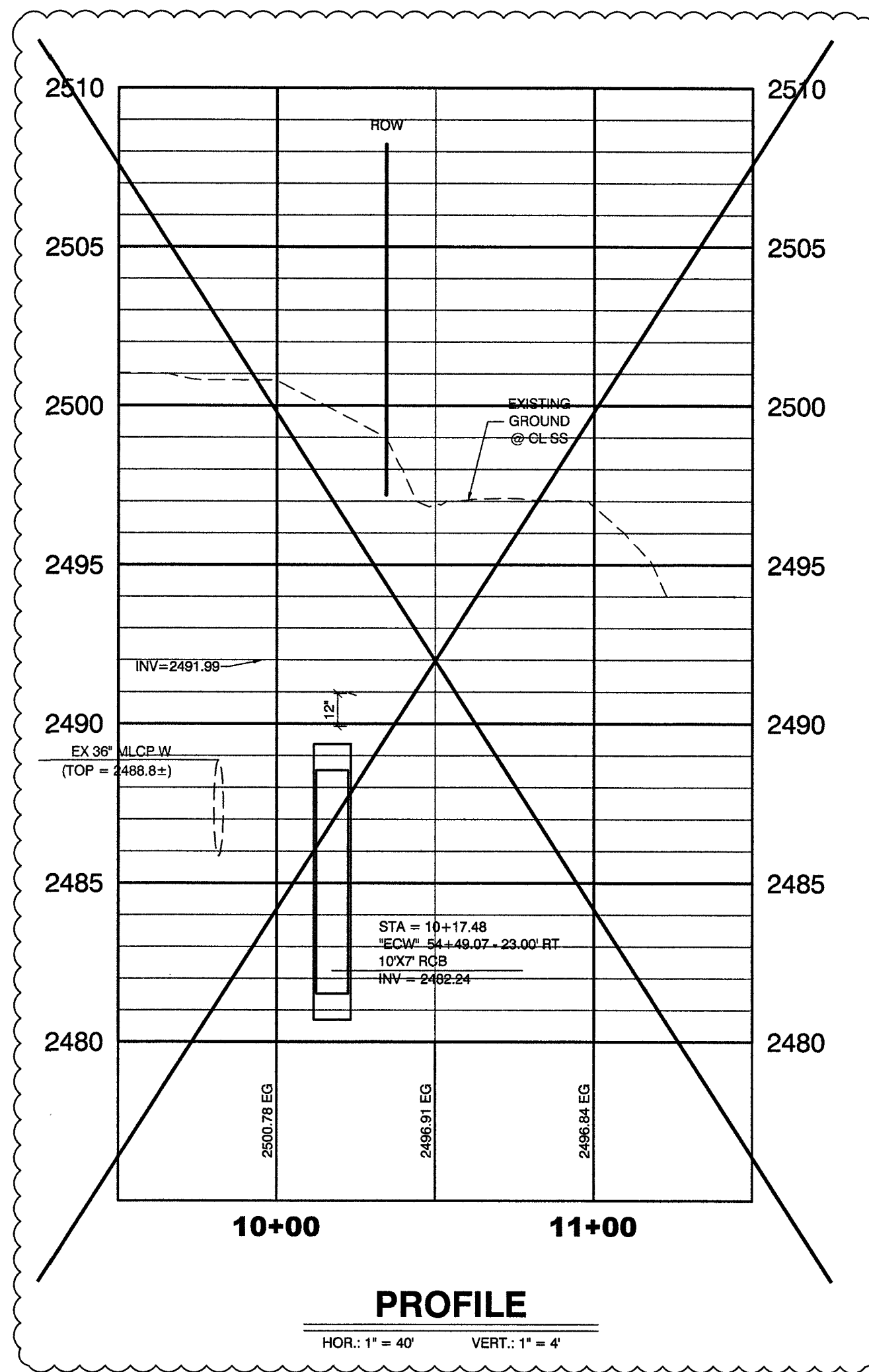
DATE: 11/14/17
SUBMITTAL STAGE: 100% - FINAL

PLAN AND PROFILE
HAMMER LANE SEWER RELOCATION

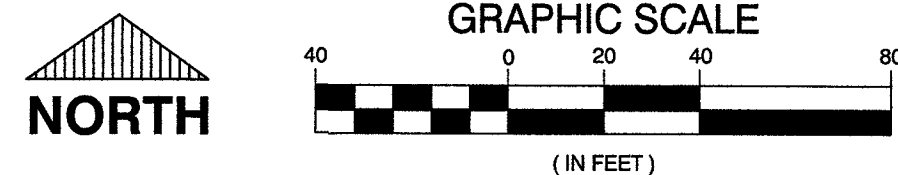
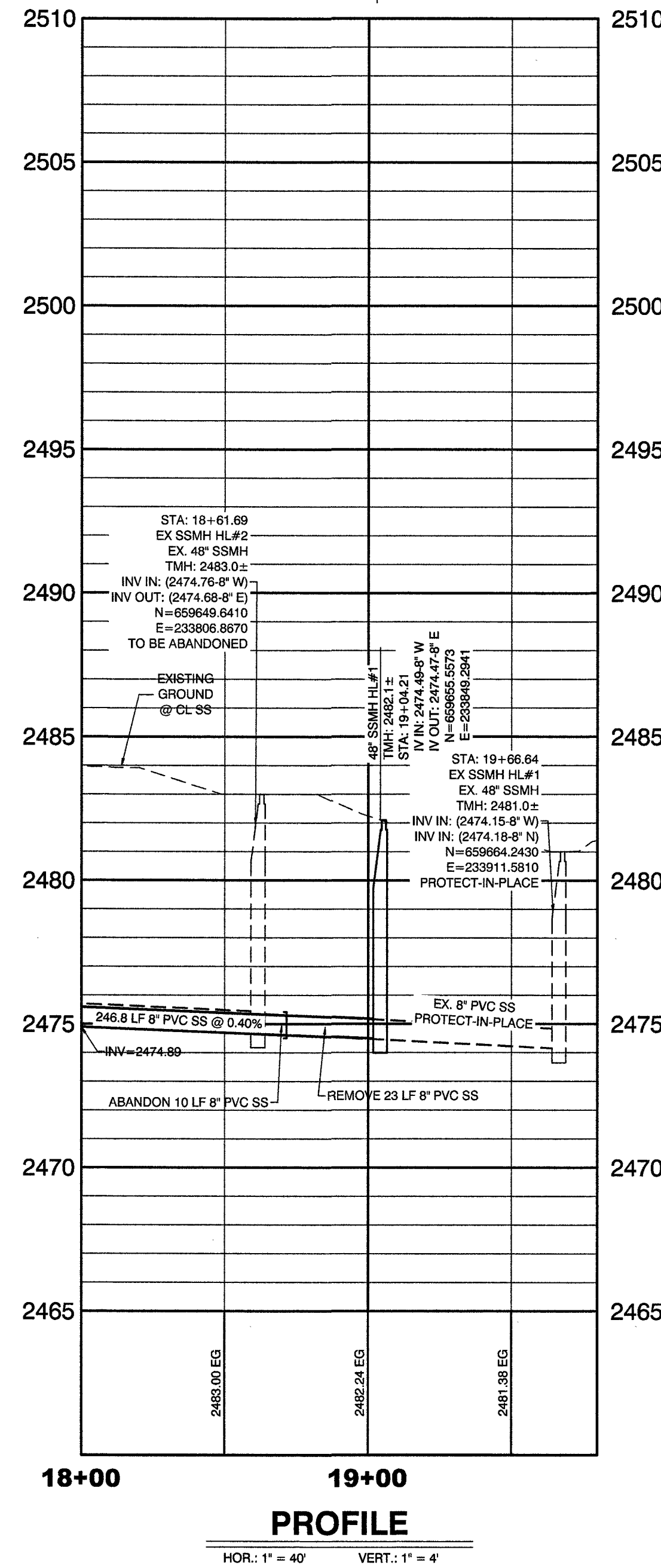
RECORD DRAWINGS
COVER SHEET SEALED
11/14/2017
ENGINEER OF RECORD:
STEPHEN M. JONES
P.E. No. 19638
SHEET
SS1
41 OF 52
DRAWING NO.
327V294



ABBEY RIDGE AVENUE



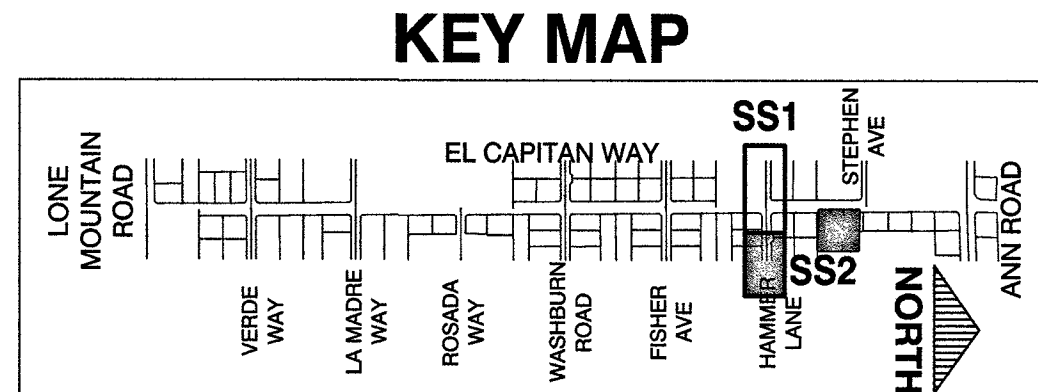
HAMMER LANE



CALL BEFORE CONSTRUCTION		
BEFORE YOU DIG	USA NORTH	811 OR 800-227-2800
	F.A.S.T.	702-432-5300
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RECORD DRAWINGS COMPLETED JANUARY 2020
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PROJECT FINAL COMPLETION: OCTOBER 9, 2019
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APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT No. 125005 FIRST APPROVED DATE: _____

PREPARED BY
GCW
ENGINEERS SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89148
T: 702.804.2299
F: 702.804.2299
gcwengineering.com

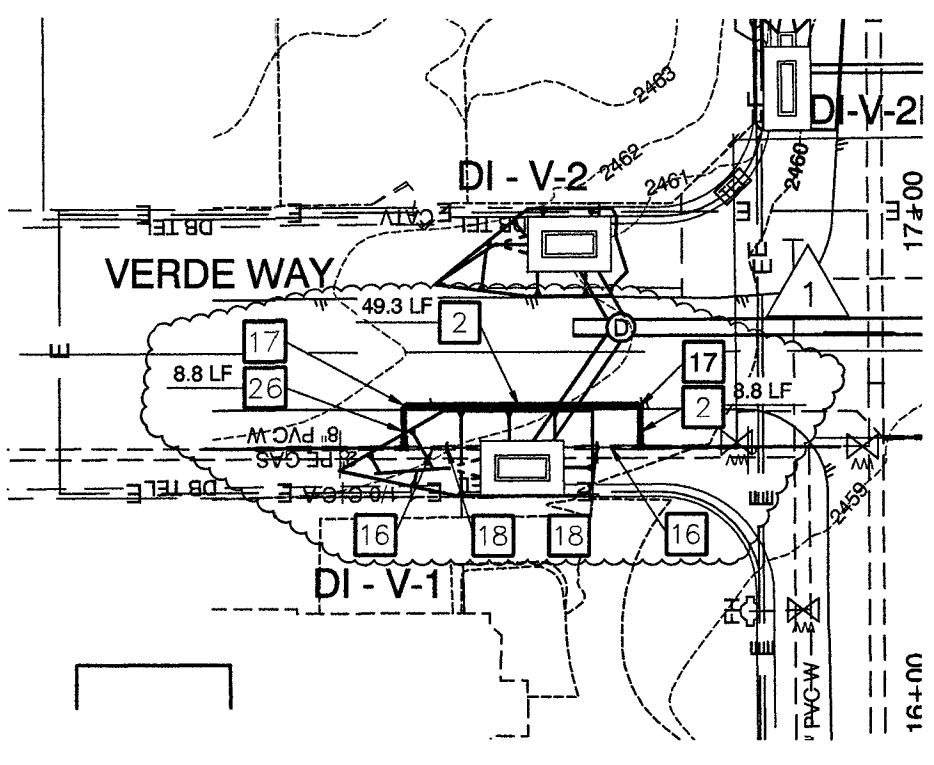
PREPARED FOR
CITY OF LAS VEGAS
BID# 17-63691
H# 63691
DATE: 11/14/17
SUBMITTAL STAGE: 100% - FINAL
DESIGNED BY: RGB
DRAWN BY: RGB
CHECKED BY: SJ

TITLE
**GOWAN NORTH - EL CAPITAN BRANCH
LONE MOUNTAIN ROAD TO ANN ROAD
PLAN AND PROFILE
HAMMER LANE SEWER RELOCATION AND
ABBEY RIDGE AVENUE SEWER RELOCATION**

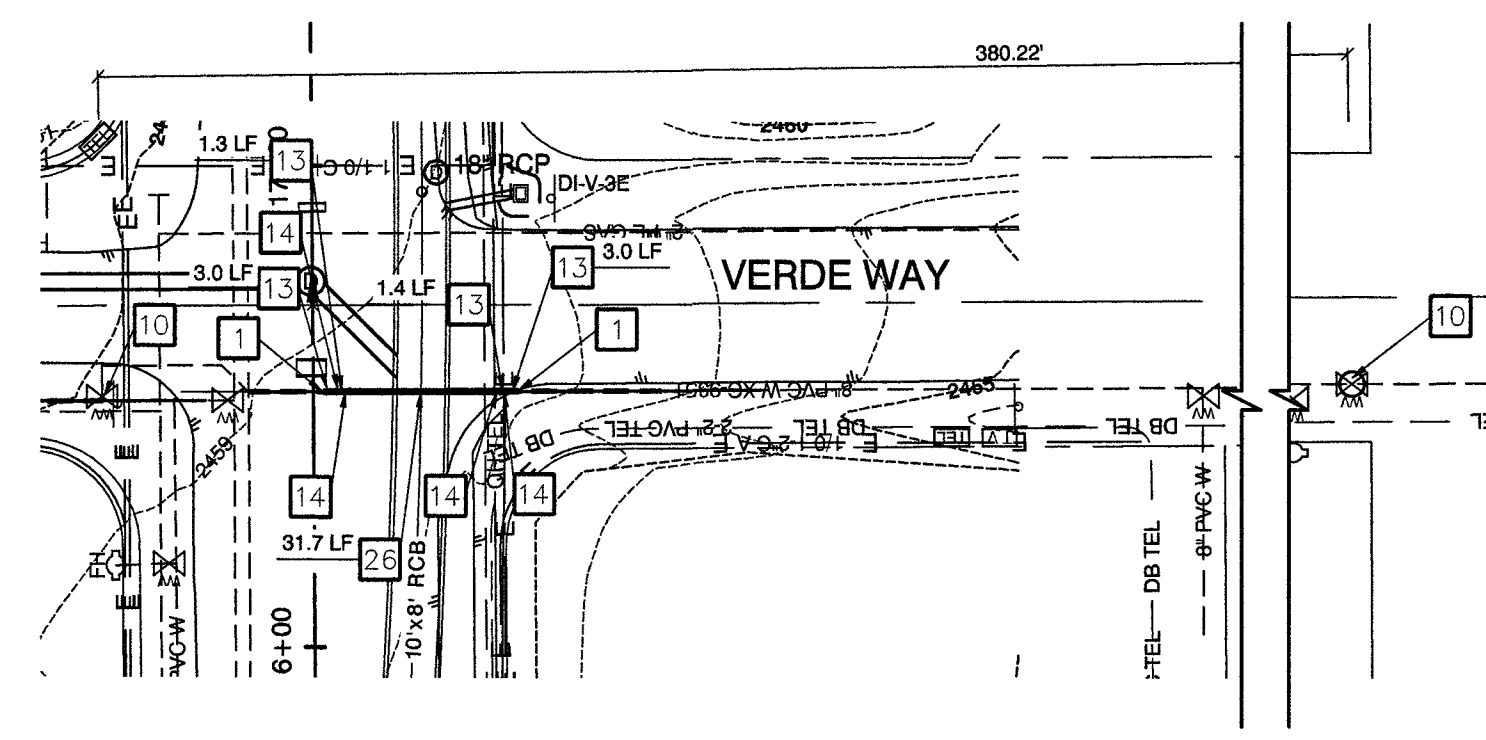
RECORD
DRAWINGS
COVER SHEET SEALED
11/14/2017
ENGINEER OF RECORD:
STEPHEN M. JONES
P.E. No. 19638
SHEET
SS2
42 OF 52
DRAWING NO.
327V294

RECORD DRAWINGS
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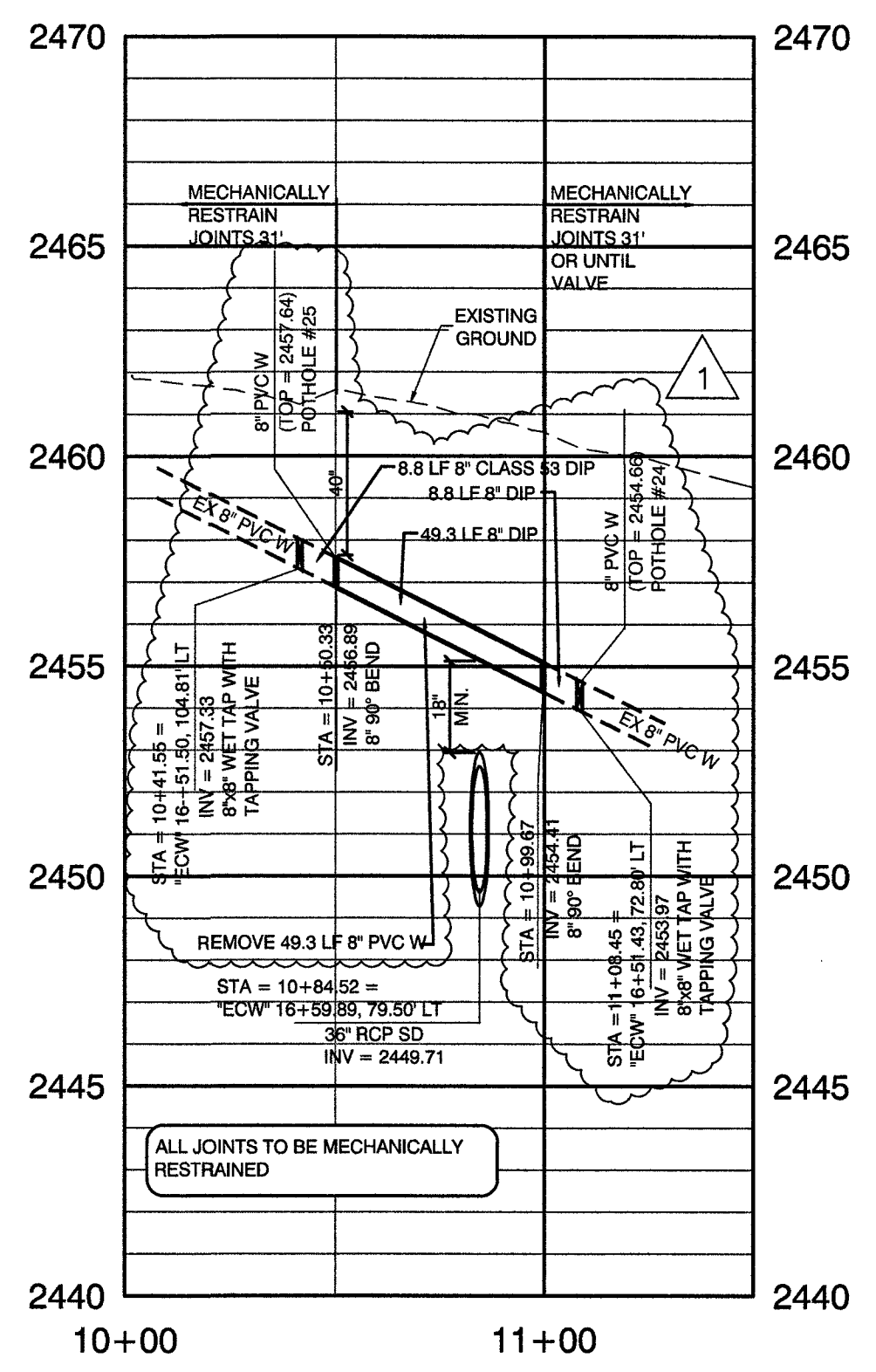
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GAS LINE TO BE RELOCATED PRIOR TO WATER LINE
RELOCATION.



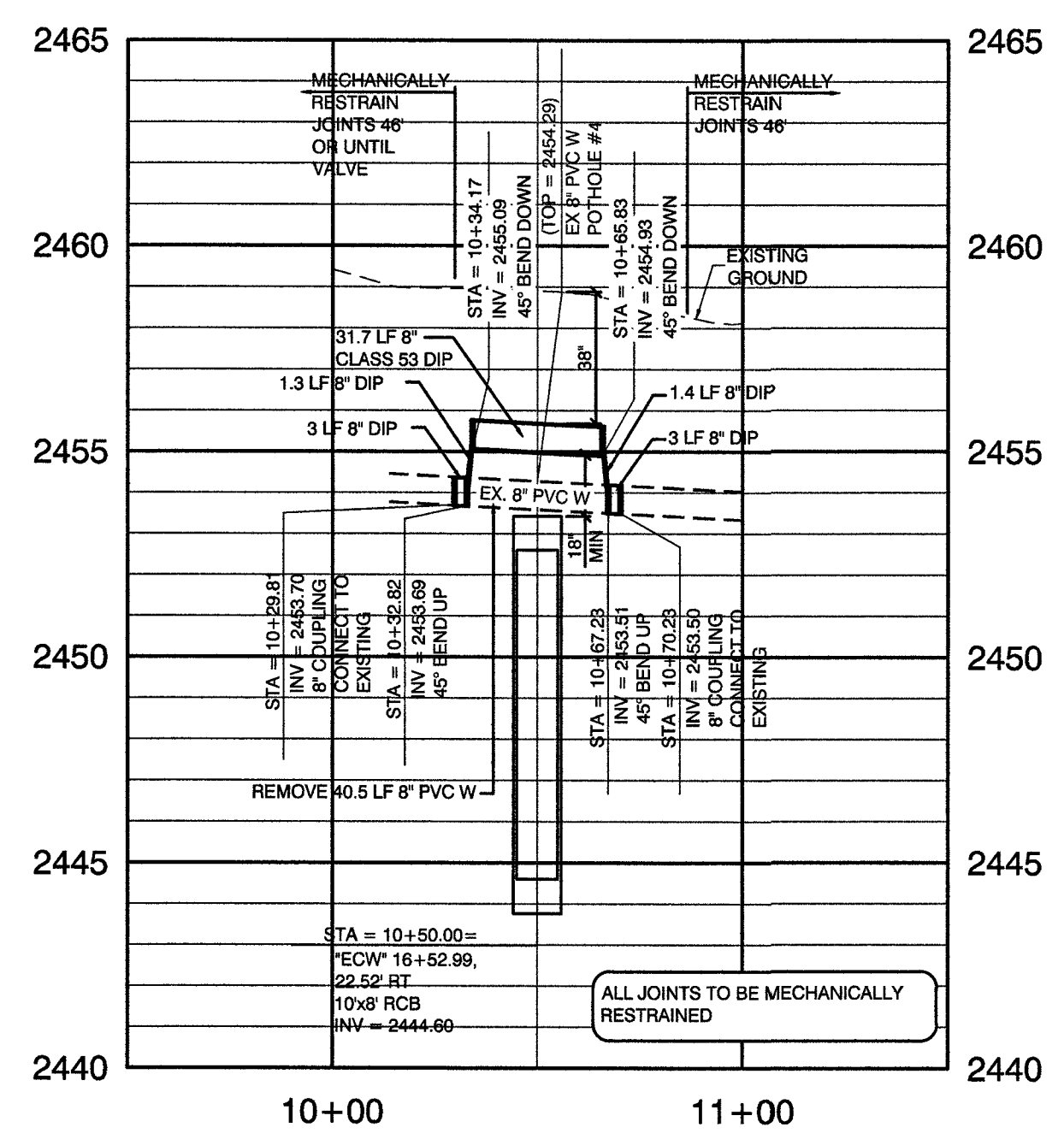
VERDE WAY
SEE SHEET SD1



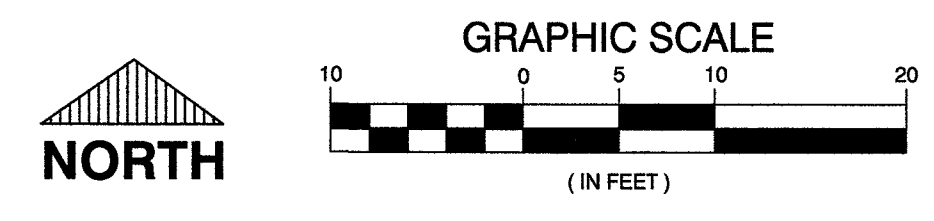
VERDE WAY
SEE SHEET SD1



PROFILE
HOR.: 1" = 40' VERT.: 1" = 4'



NOTE:
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LESS THAN THREE (3) FEET FROM THE TOP OF THE LWWD
TRANSMISSION MAIN, NO EXCAVATION EQUIPMENT, OTHER THAN
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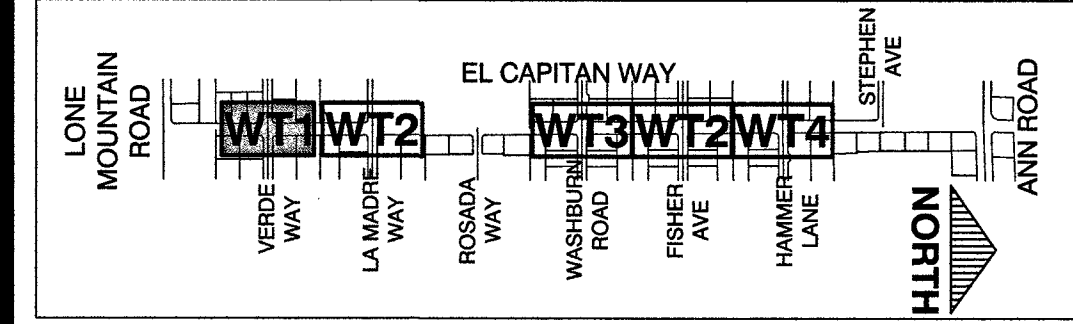
CALL BEFORE CONSTRUCTION		
BEFORE YOU DIG	USA NORTH	811 OR 800-227-2800
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

WATER CONSTRUCTION KEY NOTES

- CUT EXISTING 8" PVC WATERLINE AND CONNECT DIP PIPE WITH 8" COUPLER
- INSTALL 8" DIP PIPE
- INSTALL 8" DIP 45° BEND, M&MJ
- INSTALL 10"x10" WET TAPS WITH 10" TAPPING VALVES PER UDACS PLATE 34 AND SECTION 2.24 AND THRUST BLOCKS PER UDACS PLATE 31
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KEY MAP



APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT No. 125005 FIRST APPROVED DATE:

PREPARED BY
GCW
ENGINEERS SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2289
gcwengineering.com

DESIGNED BY: RKG
DRAWN BY: RKG
CHECKED BY: SJ

DATE: 11/14/17
SUBMITAL STAGE: 100% - FINAL

PREPARED FOR
CITY OF LAS VEGAS

**GOWAN NORTH - EL CAPITAN BRANCH
LONE MOUNTAIN ROAD TO ANN ROAD**

**WATER PLAN - RELOCATION
VERDE WAY**

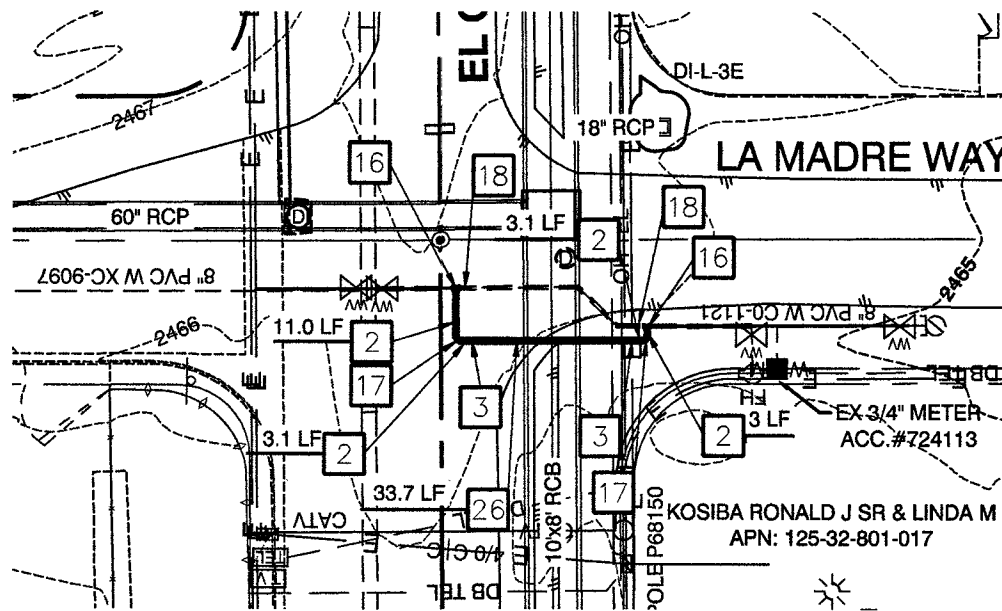
RECORD
DRAWINGS

COVER SHEET SEALED
11/14/2017

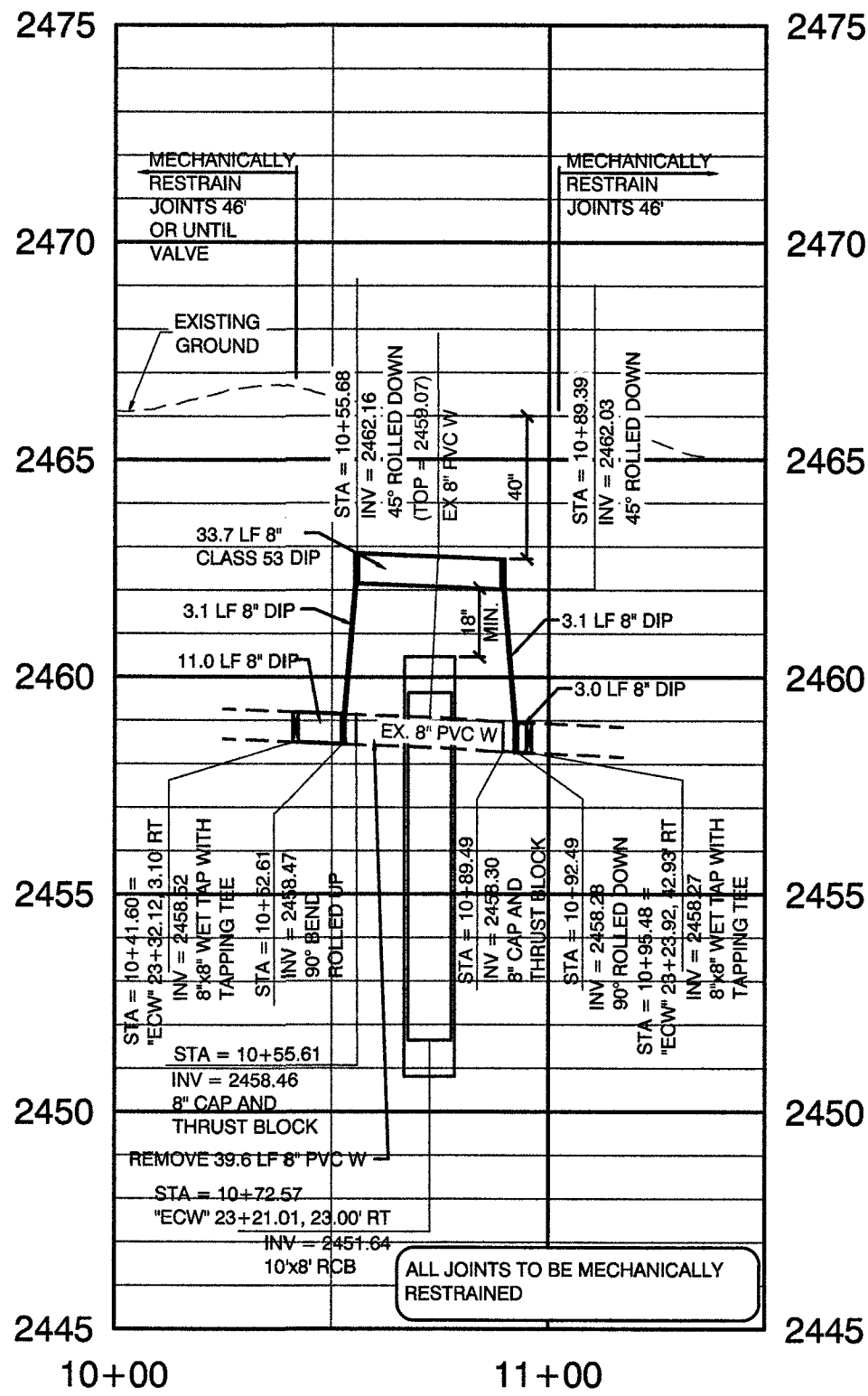
ENGINEER OF RECORD:
STEPHEN M. JONES
P.E. No. 19638

SHEET
WT1
43 OF 52
DRAWING NO.
327V294

RECORD DRAWINGS
BY GCW, INC.
PROJECT FINAL COMPLETION: OCTOBER 9, 2019
CONTRACTOR: LAS VEGAS PAVING CORP.
CONSTRUCTION MANAGER: DIVERSIFIED CONSULTING SERVICES
THESE DRAWINGS HAVE BEEN ALTERED TO INDICATE
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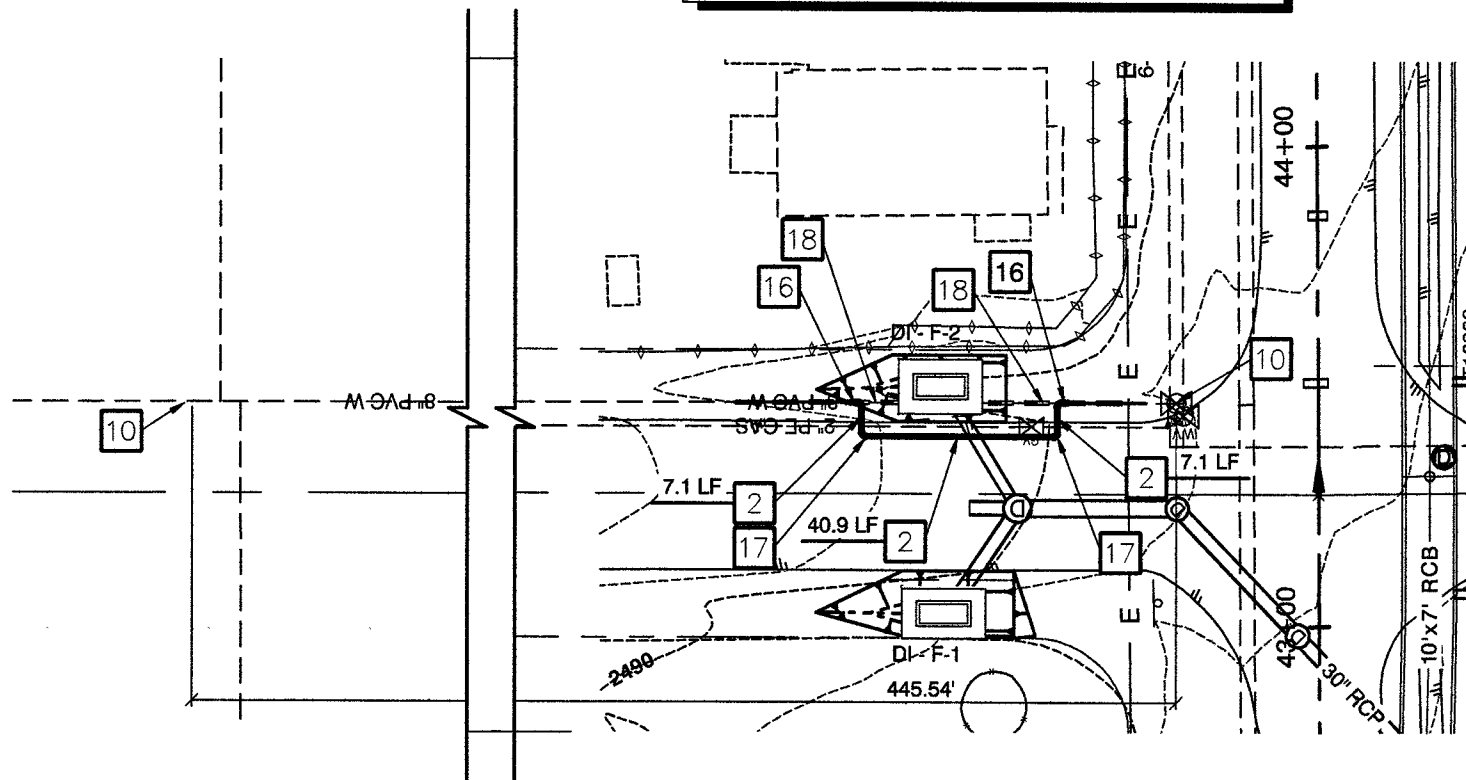
LA MADRE WAY
SEE SHEET SD2



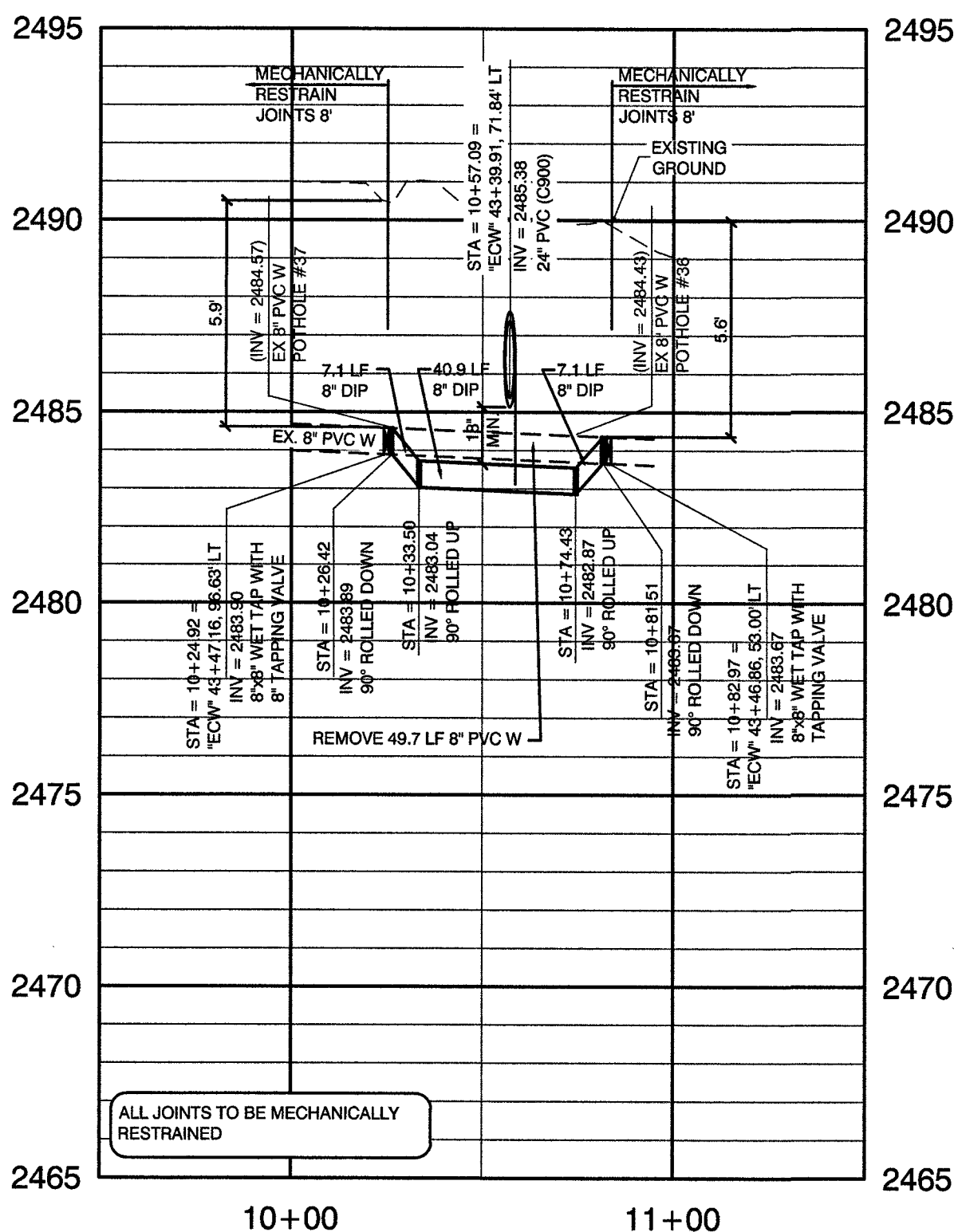
PROFILE

HOR.: 1" = 40' VERT.: 1" = 4'

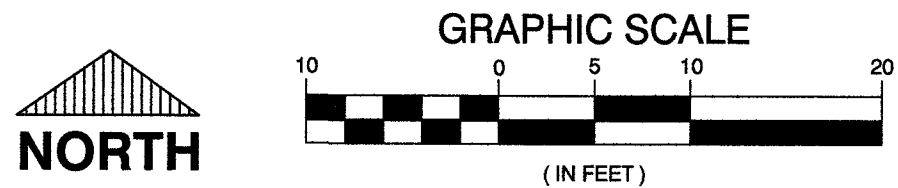
CAUTION:
GASLINE RELOCATION NOTE
CONTRACTOR TO COORDINATE WITH SOUTHWEST GAS.
GAS LINE TO BE RELOCATED PRIOR TO WATER LINE
RELOCATION.



FISHER AVENUE
SEE SHEET SD4



NOTE:
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BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
BEFORE YOU OVERHEAD	CITY OF LAS VEGAS T.E.F.C.	702-229-6611
	NV ENERGY	702-227-2929

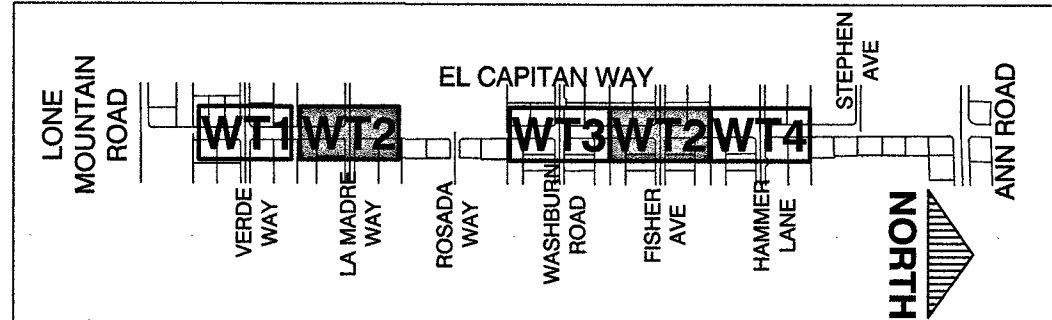
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KEY MAP



APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT No. 125005 FIRST APPROVED DATE: 11/21/2017

PREPARED BY
GCW
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
P: 702.804.2000
F: 702.804.2000
www.gcwengineering.com

DESIGNED BY: RKG
DRAWN BY: RKG
CHECKED BY: SJ

DATE: 11/14/17
SUBMITTAL STAGE: 100% - FINAL

TITLE
**GOWAN NORTH - EL CAPITAN BRANCH
LONE MOUNTAIN ROAD TO ANN ROAD**

SHEET
**WATER PLAN - RELOCATION
LA MADRE ROAD AND FISHER AVENUE**

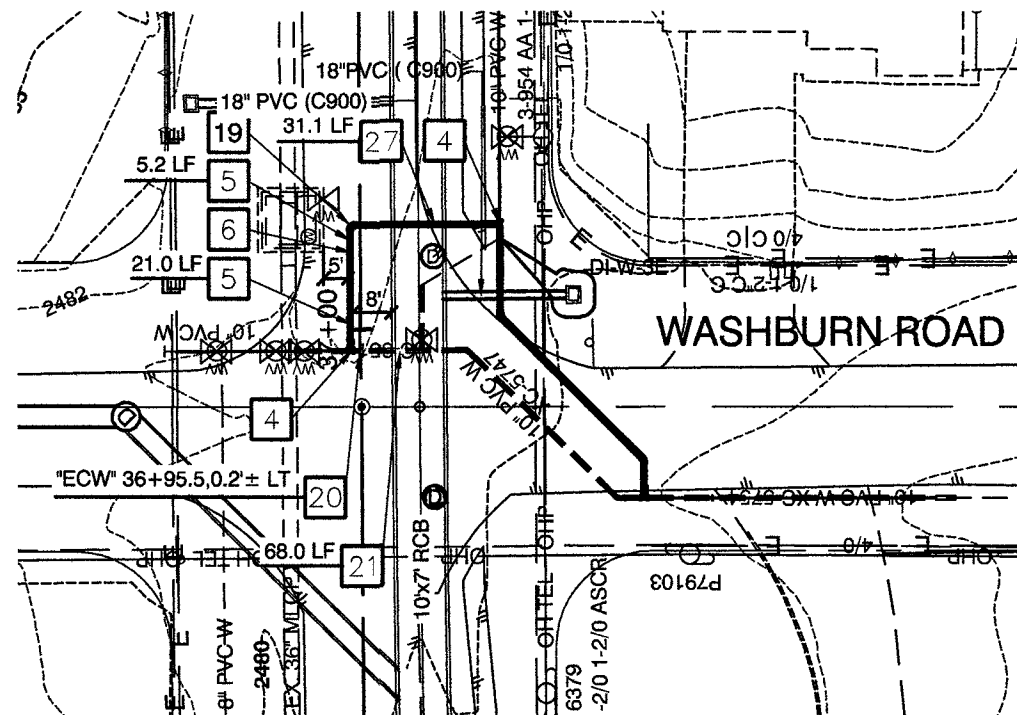
RECORD
DRAWINGS

COVER SHEET SEALED
11/14/2017

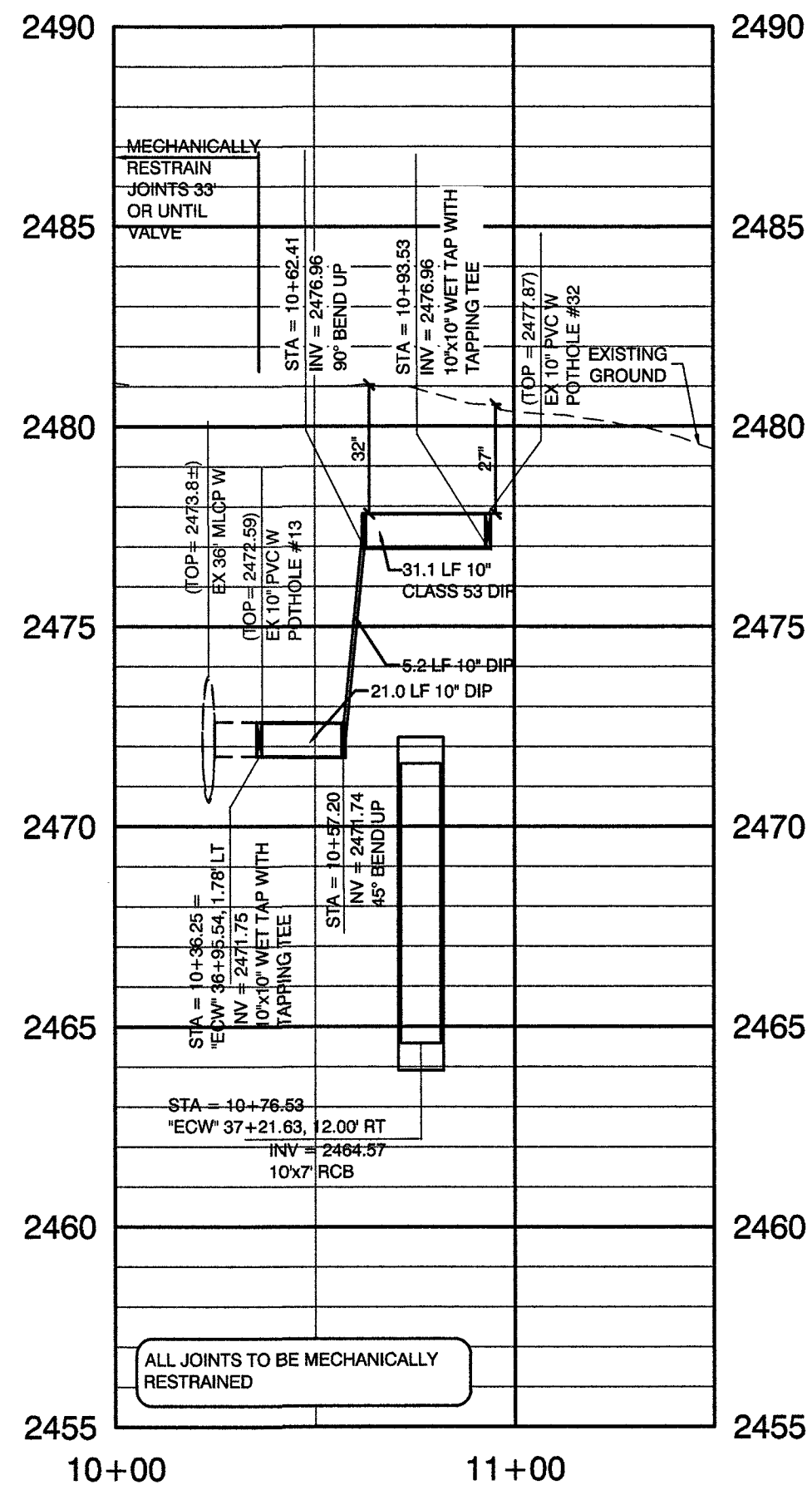
ENGINEER OF RECORD:
STEPHEN M. JONES
P.E. No. 19638

SHEET
WT2
44 OF 52
DRAWING NO.
327V294

RECORD DRAWINGS
RECORD DRAWINGS COMPLETED: JANUARY 2020
BY: GCW, INC.
PROJECT FINAL COMPLETION: OCTOBER 9, 2019
CONTRACTOR: LAS VEGAS PAVING CORP.
CONSTRUCTION MANAGER: DIVERSIFIED CONSULTING SERVICES
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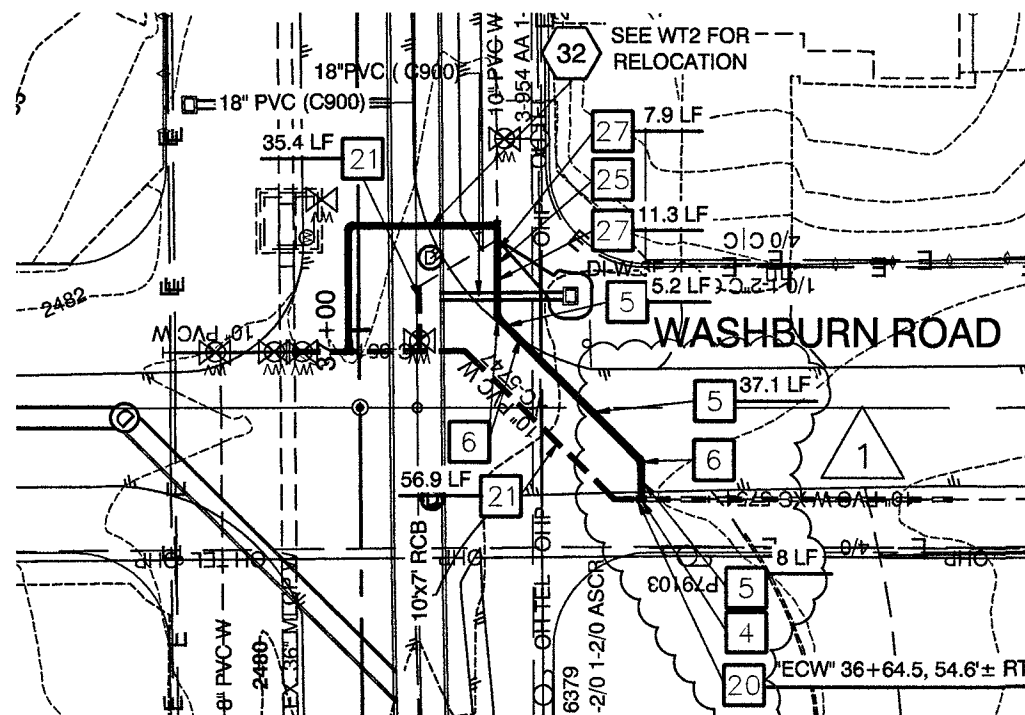
WASHBURN ROAD
SEE SHEET SD4



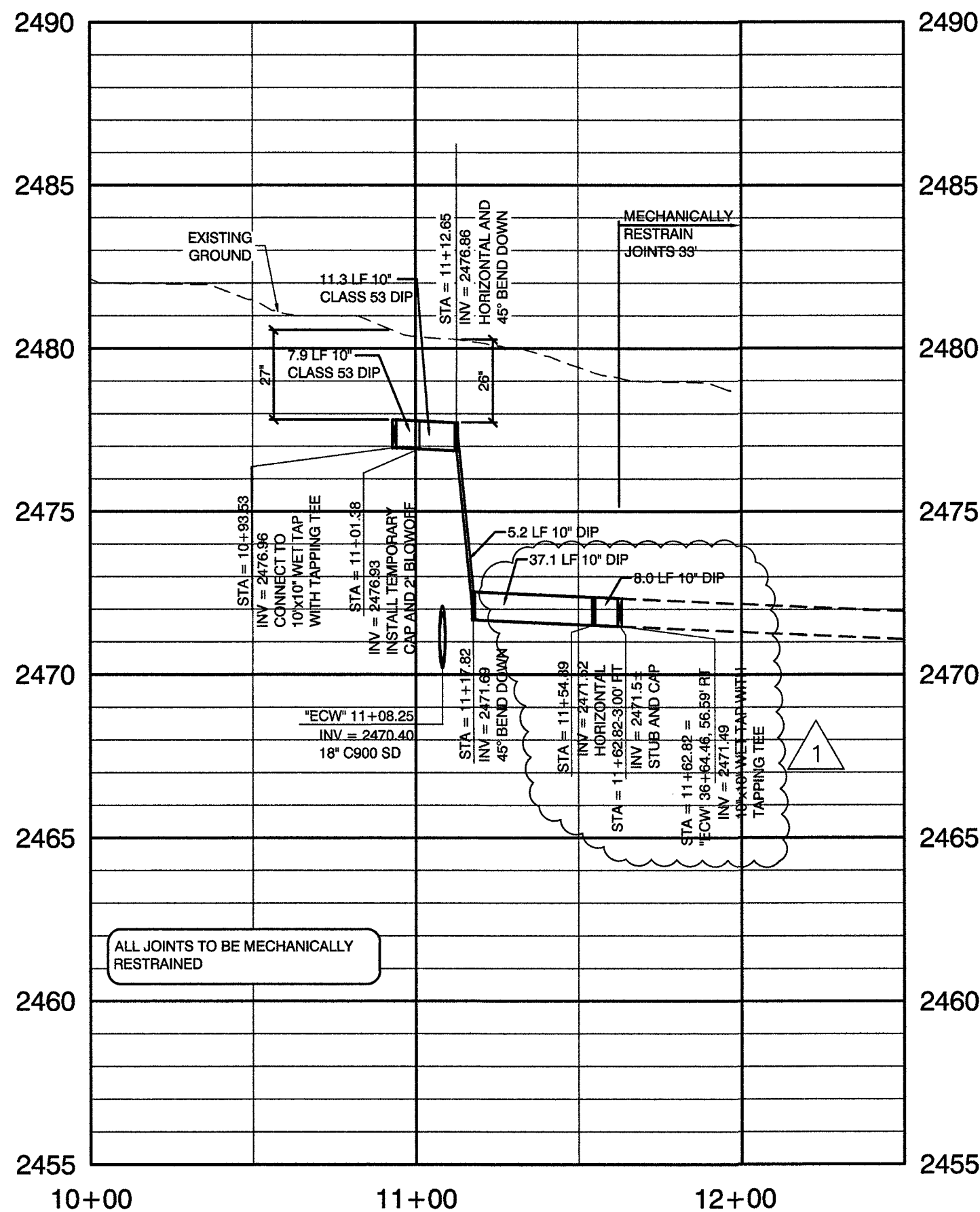
NOTE:
REFER TO SPECIAL PROVISIONS SECTION
629.03.72 FOR WORK SEQUENCES

PROFILE

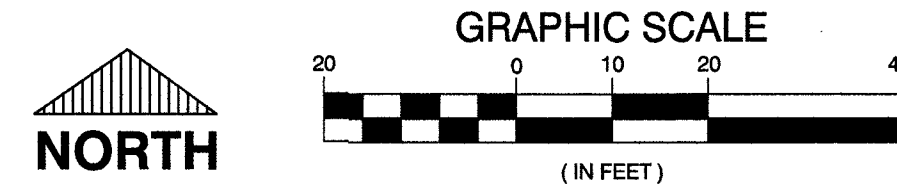
HOR.: 1" = 40' VERT.: 1" = 4'



WASHBURN ROAD
SEE SHEET SD4



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	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
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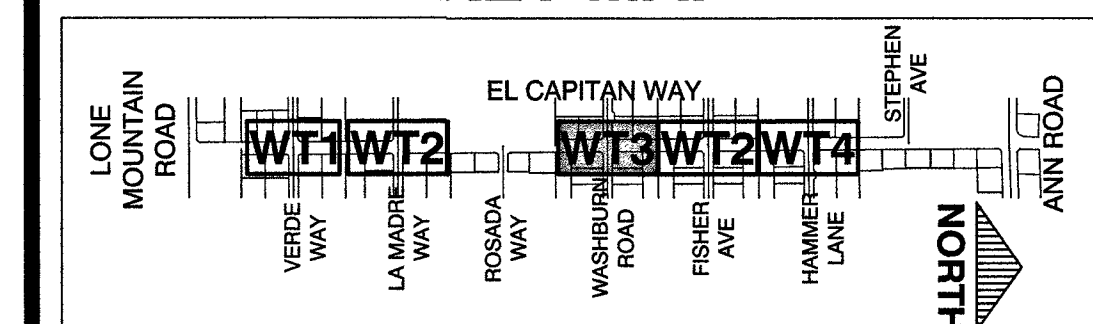
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KEY MAP



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LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT No. 125005 FIRST APPROVED DATE:

PREPARED BY
GCW
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
P: 702.804.2000
F: 702.804.2000
E: gcw@gcwinc.com
gcwengineering.com

DESIGNED BY: RKB
DRAWN BY: RKB
CHECKED BY: SJ

DATE: 11/14/17
SUBMITTAL STAGE:
100% - FINAL

PREPARED FOR
CITY OF LAS VEGAS

**GOWAN NORTH - EL CAPITAN BRANCH
LONE MOUNTAIN ROAD TO ANN ROAD**

**WATER PLAN - RELOCATION
WASHBURN ROAD**

RECORD
DRAWINGS

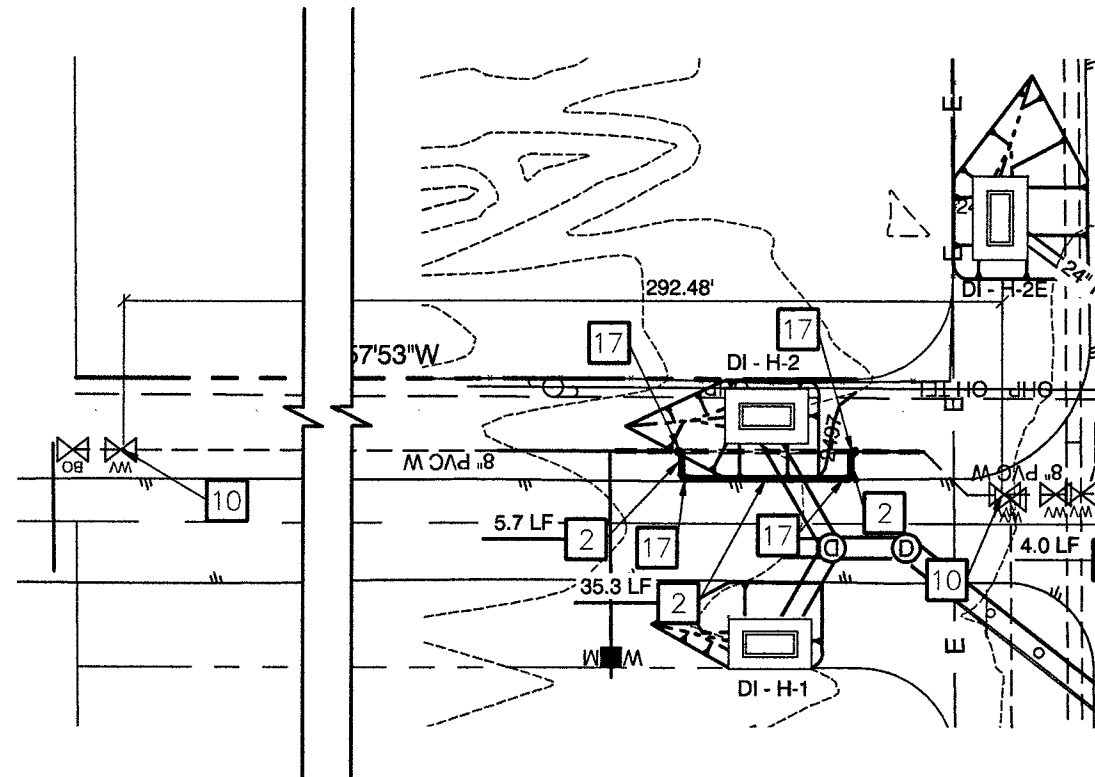
COVER SHEET SEALED
11/14/2017

ENGINEER OF RECORD:
STEPHEN M. JONES
P.E. No. 19638

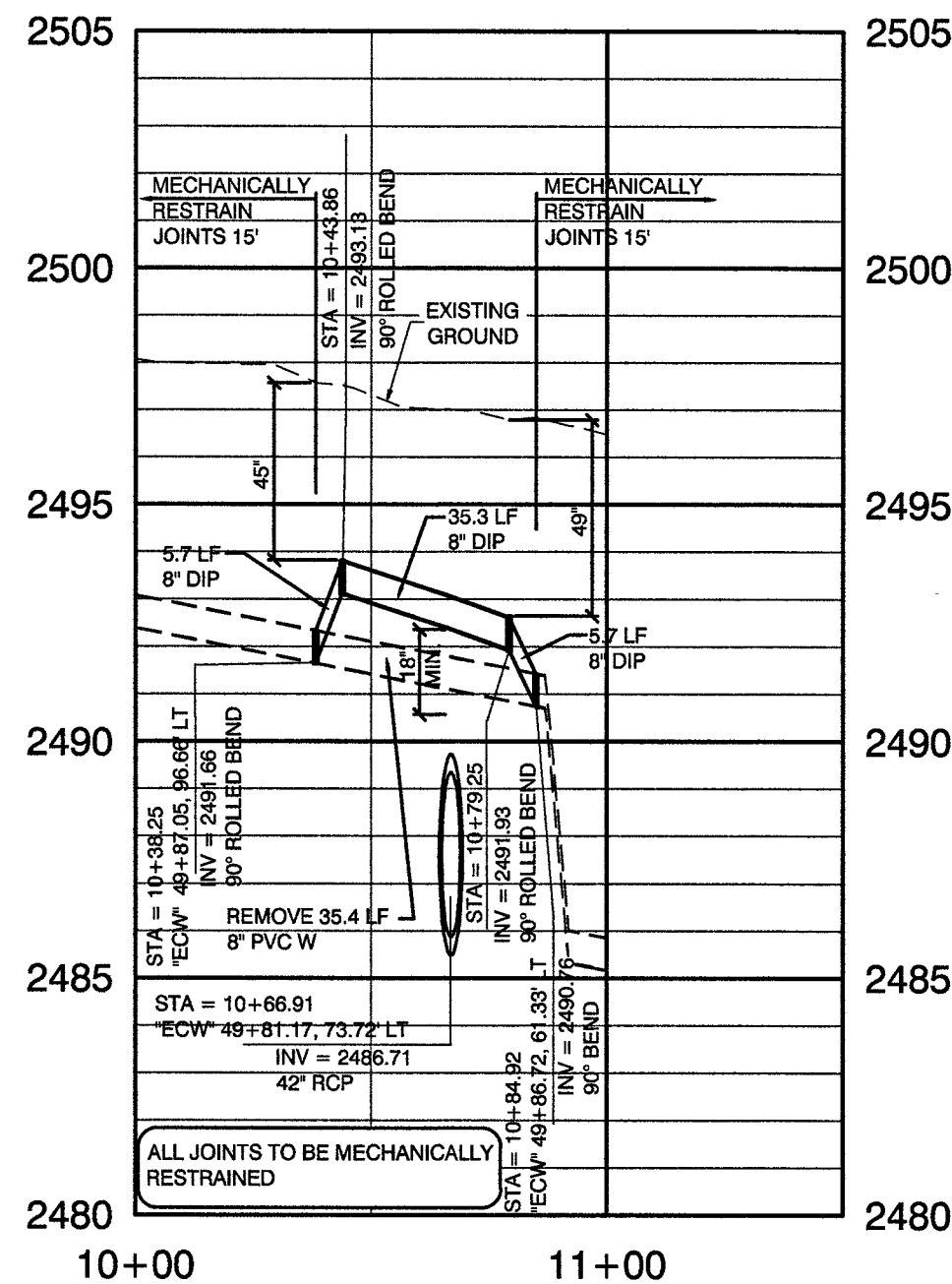
11/14/19
NO. DATE
FINAL AS-BUILT
REVISIONS

WT3
45 OF 52
DRAWING NO.
327V294

RECORD DRAWINGS
RECORD DRAWINGS COMPLETED: JANUARY 2020
BY GCW, INC.
PROJECT FINAL COMPLETION: OCTOBER 9, 2019
CONTRACTOR: LAS VEGAS PAVING CORP.
CONSTRUCTION MANAGER: DIVERSIFIED CONSULTING SERVICES
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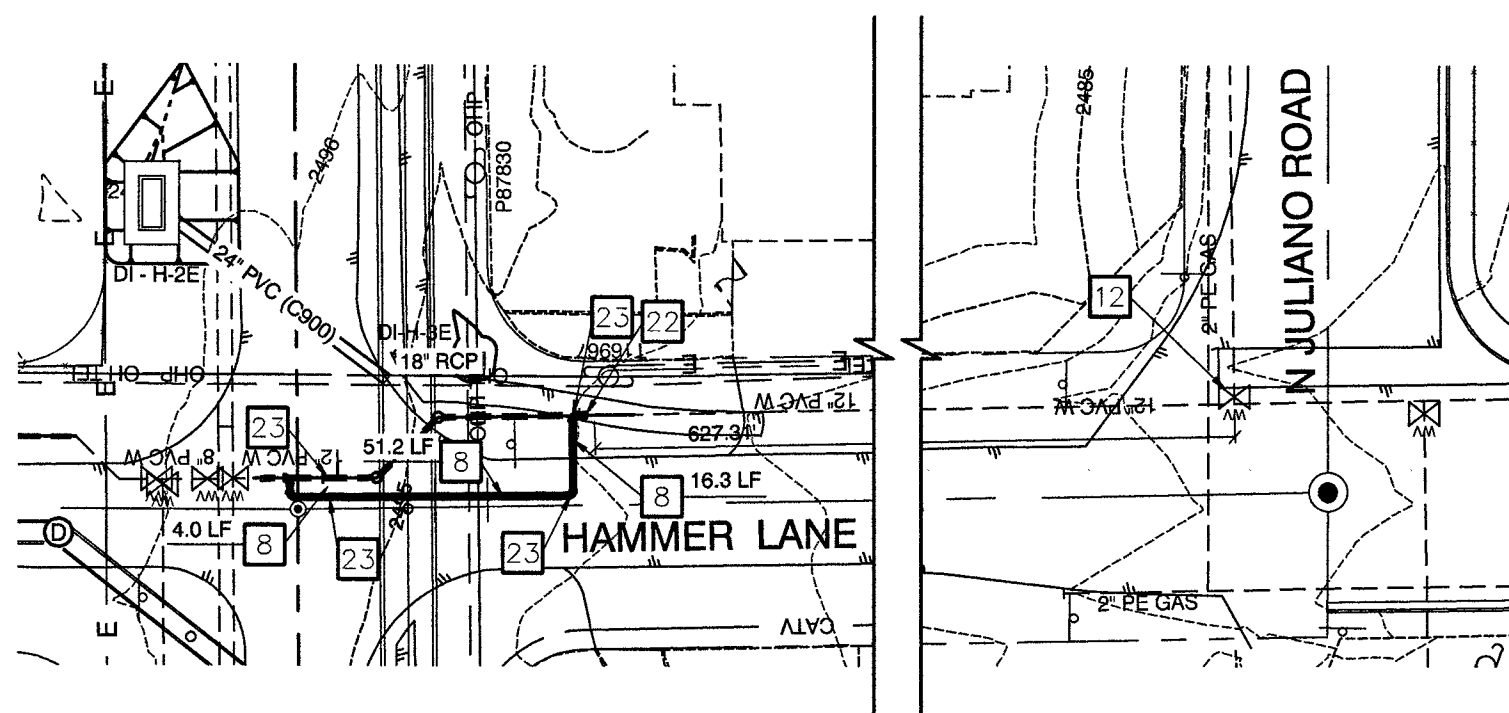


HAMMER LANE
SEE SHEET SD5

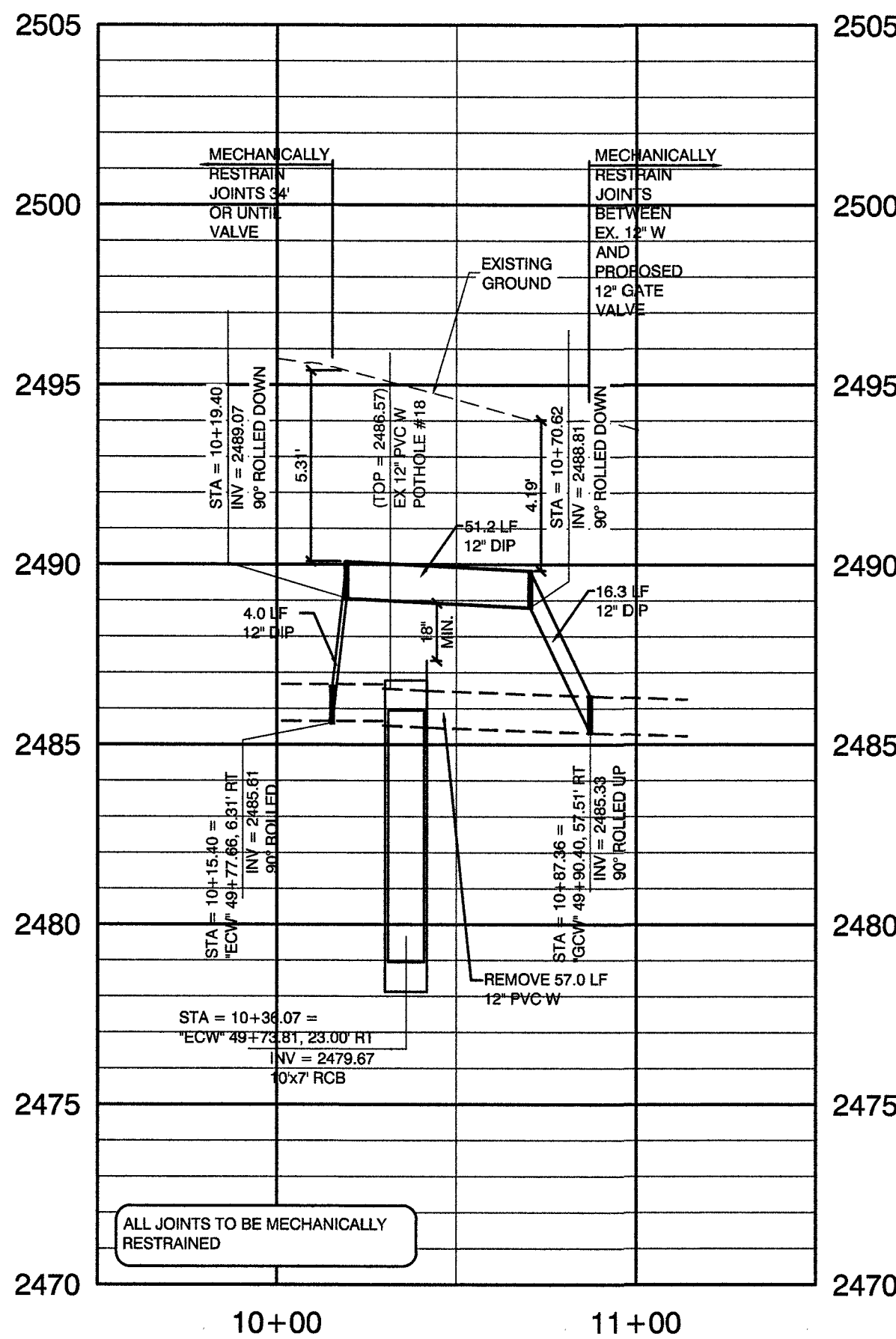


PROFILE

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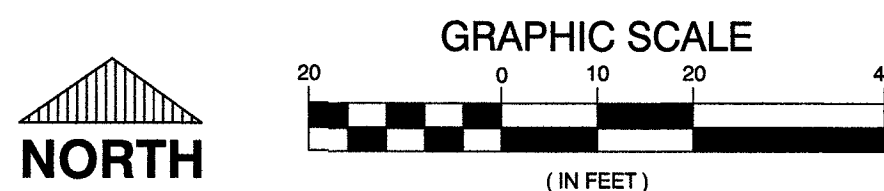


HAMMER LANE
SEE SHEET SD5



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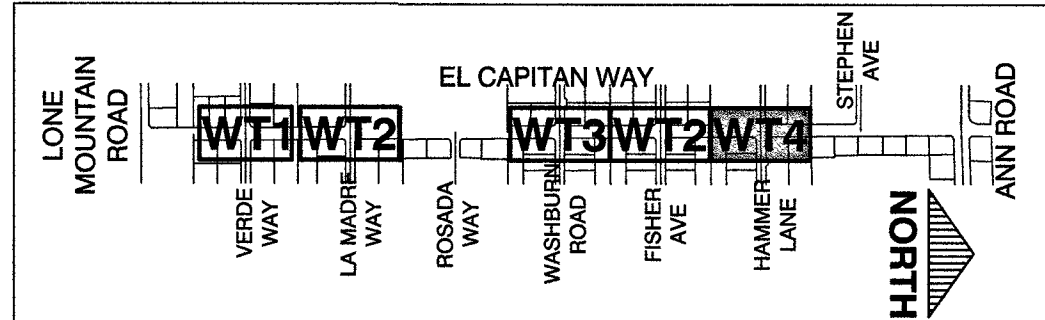
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KEY MAP



APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT No. 125005 FIRST APPROVED DATE:

NO.	DATE	REVISIONS

PREPARED BY
GCW
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2259
gcwengineering.com

DESIGNED BY: RKB	CHECKED BY: SJ
DRAWN BY: RKB	
DATE: 11/14/17	
SUBMITTAL STAGE: 100% - FINAL	

TITLE
**GOWAN NORTH - EL CAPITAN BRANCH
LONE MOUNTAIN ROAD TO ANN ROAD**
SHEET
**WATER PLAN - RELOCATION
HAMMER LANE**

**RECORD
DRAWINGS**

COVER SHEET SEALED
11/14/2017

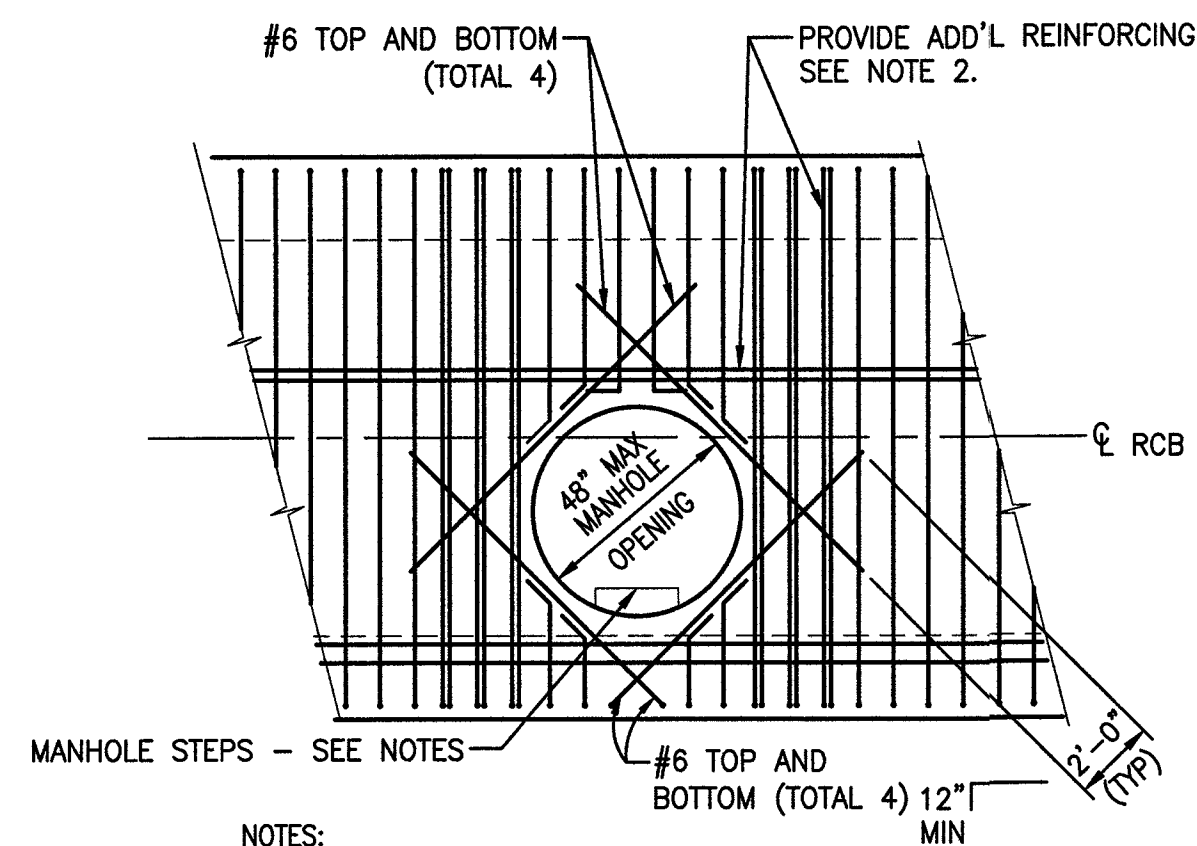
ENGINEER OF RECORD:
STEPHEN M. JONES
P.E. No. 19638

SHEET

WT4

46 OF 52

DRAWING NO.
327V294

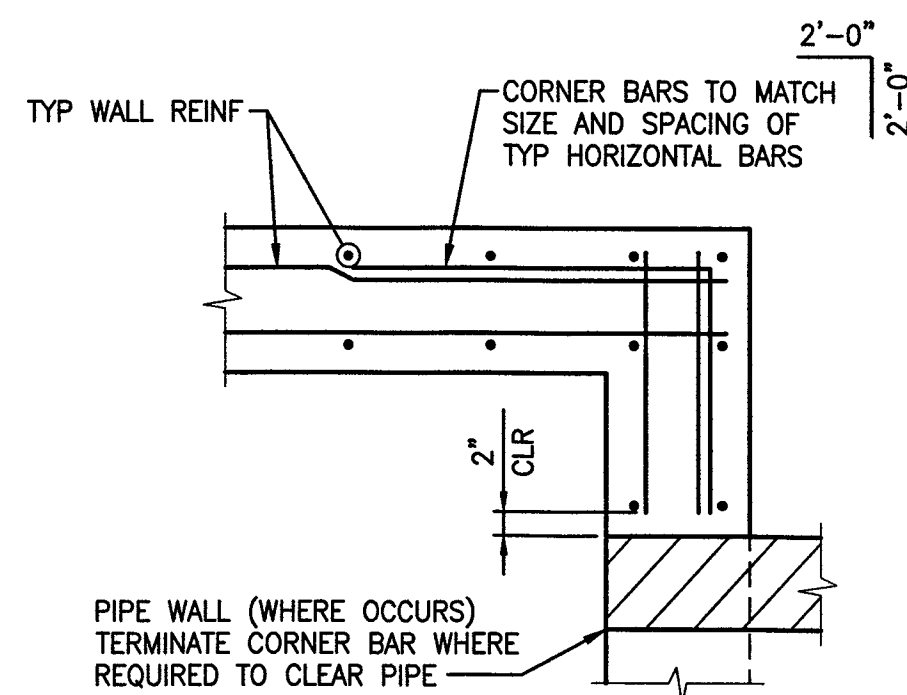


NOTES:

1. FIELD BEND OR CUT ALL REINFORCING 2" CLR OF OPENINGS.
2. EVERY REBAR DISCONTINUED AT OPENING SHALL BE REPLACED BY AN EXTRA REBAR PLACED AT THE SIDE OF THE OPENING AS SHOWN. THE LENGTH OF THE EXTRA REBARS SHALL EQUAL THE LENGTH OF THE SCHEDULE REBARS THAT ARE NOT DISCONTINUED AT THE OPENING.
3. PROVIDE MINIMUM 2" CLR BETWEEN ALL REINFORCING BARS.
4. MANHOLE STEPS SHALL BE PER CLARK COUNTY STANDARD DRAWING NO. 410 WITH A MAXIMUM SPACING BETWEEN STEPS OF 12" AND A MAXIMUM OF 16" BETWEEN THE LAST STEP AND BOTTOM OF STRUCTURE.

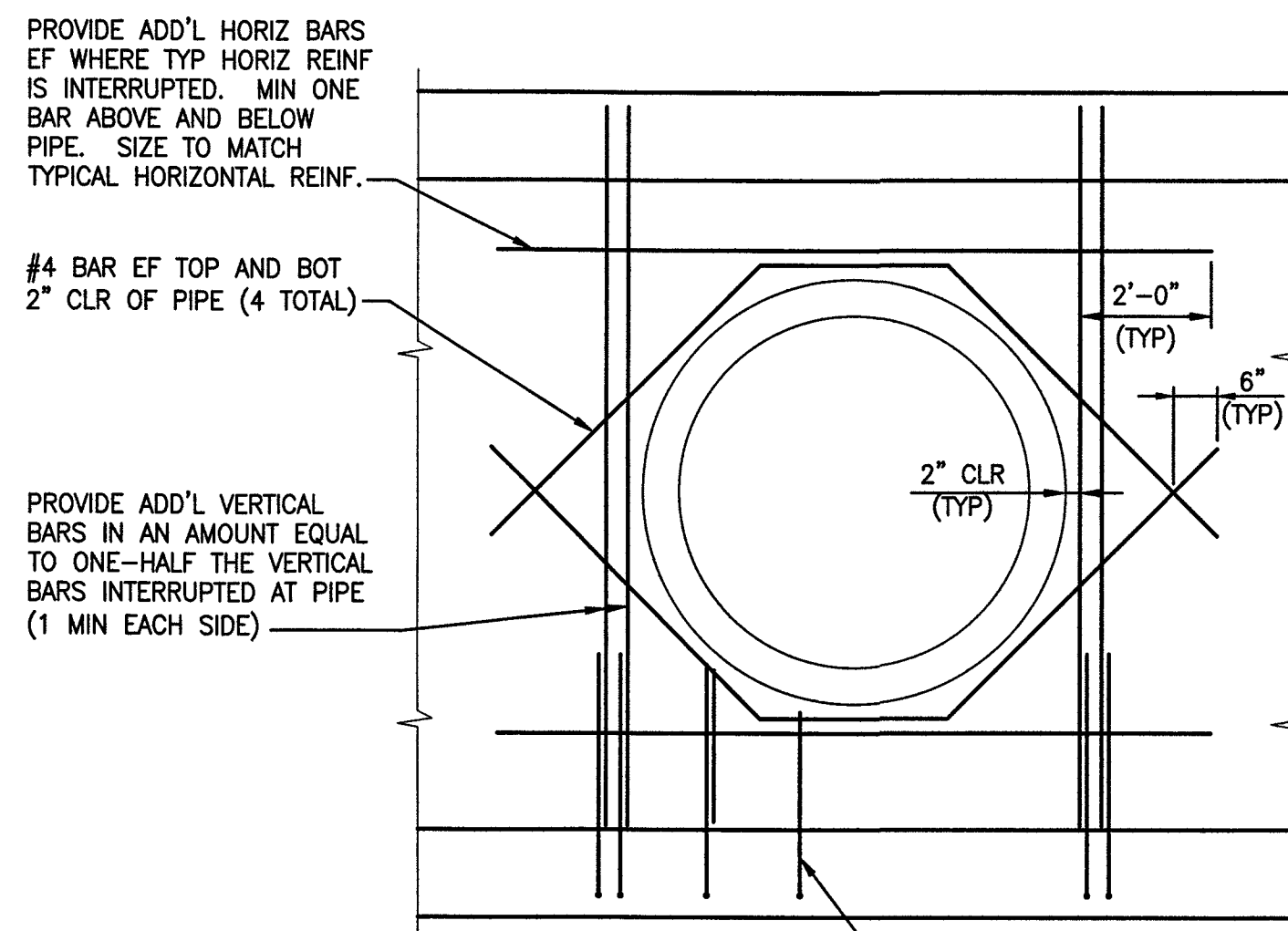
4 MANHOLE OPENING DETAIL

SCALE: NTS



3 CORNER REINFORCING DETAIL

SCALE: NTS



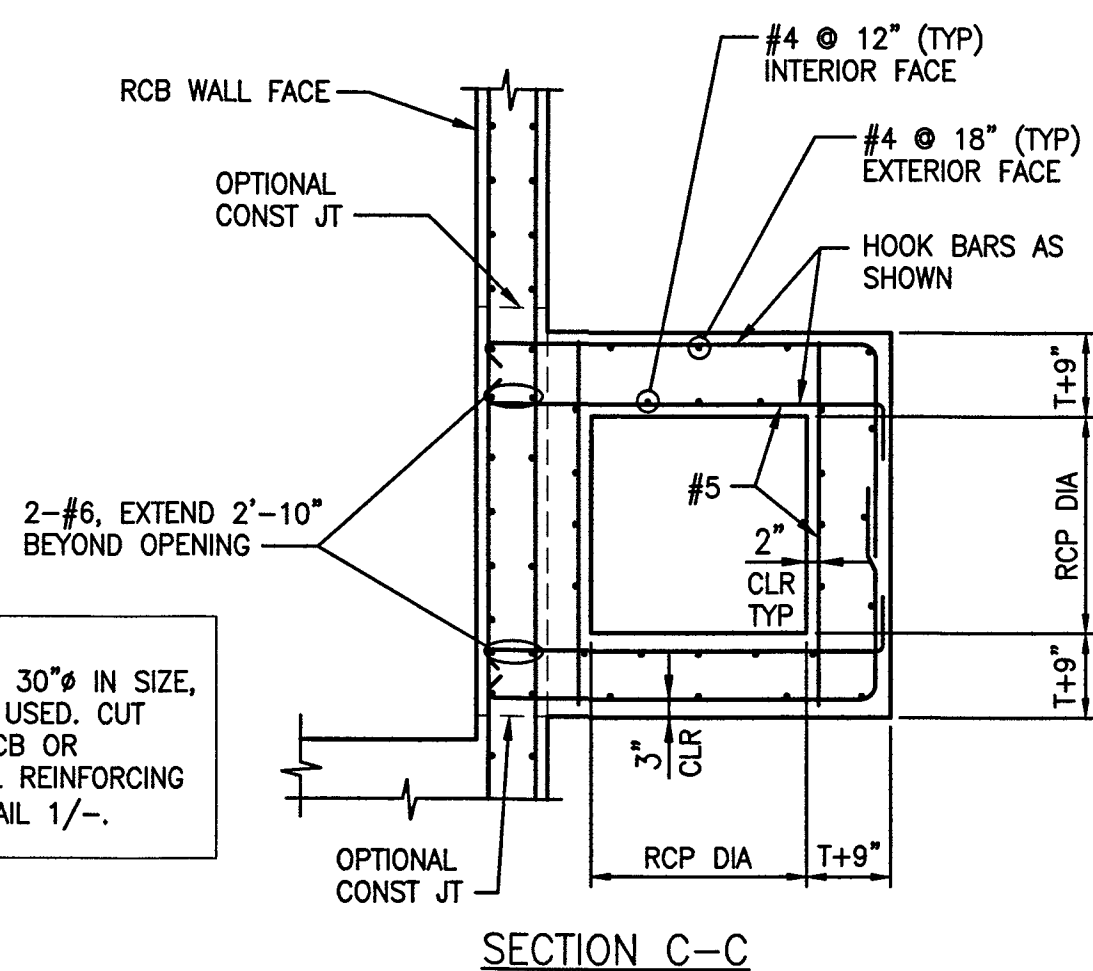
NOTES:

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

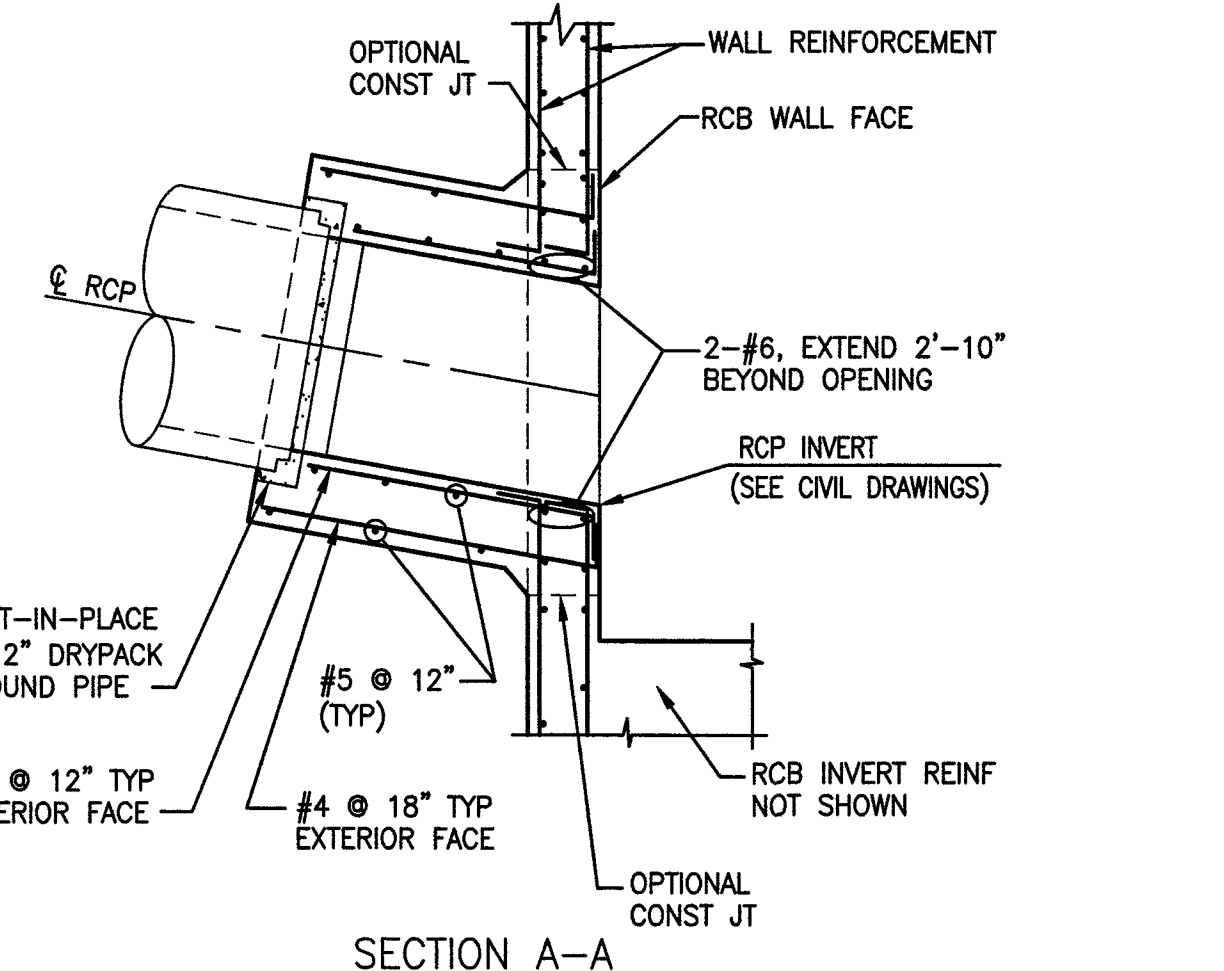
1 PIPE PENETRATION DETAIL

SCALE: NTS

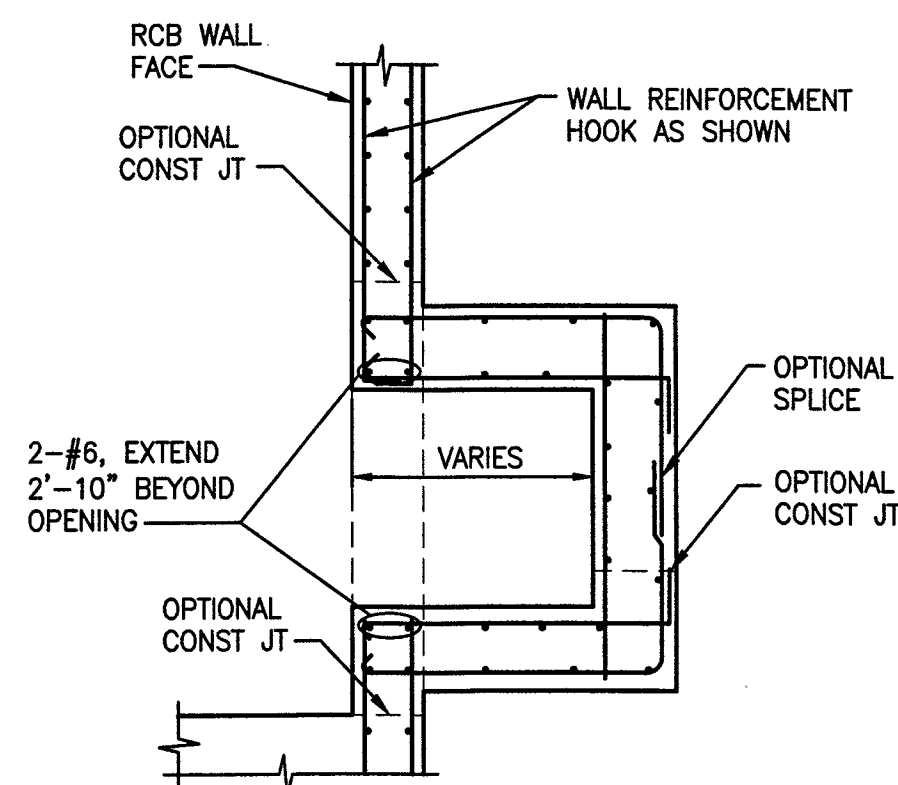
NOTE:
FOR PIPES LESS THAN OR EQUAL TO 30" IN SIZE,
THIS DETAIL DOES NOT NEED TO BE USED. CUT
PIPE FLUSH WITH INSIDE FACE OF RCB OR
CHANNEL WALL. PROVIDE ADDITIONAL REINFORCING
AROUND PIPE PENETRATION PER DETAIL 1/-.



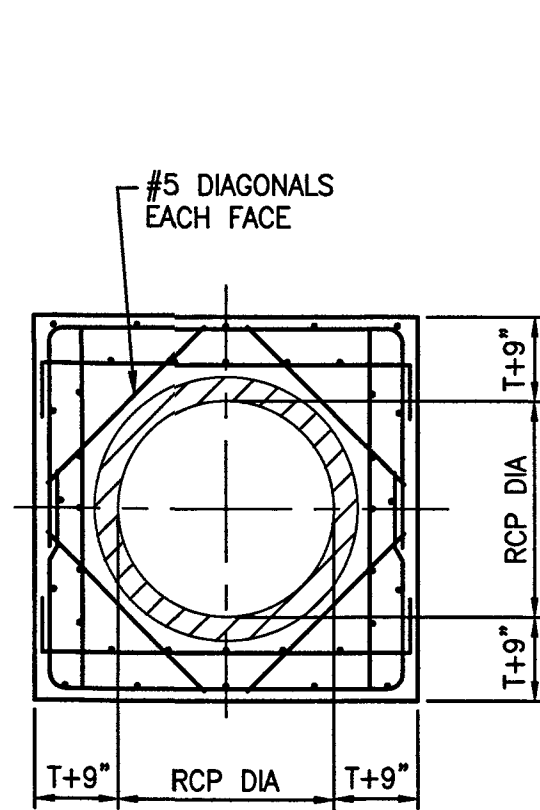
SECTION C-C



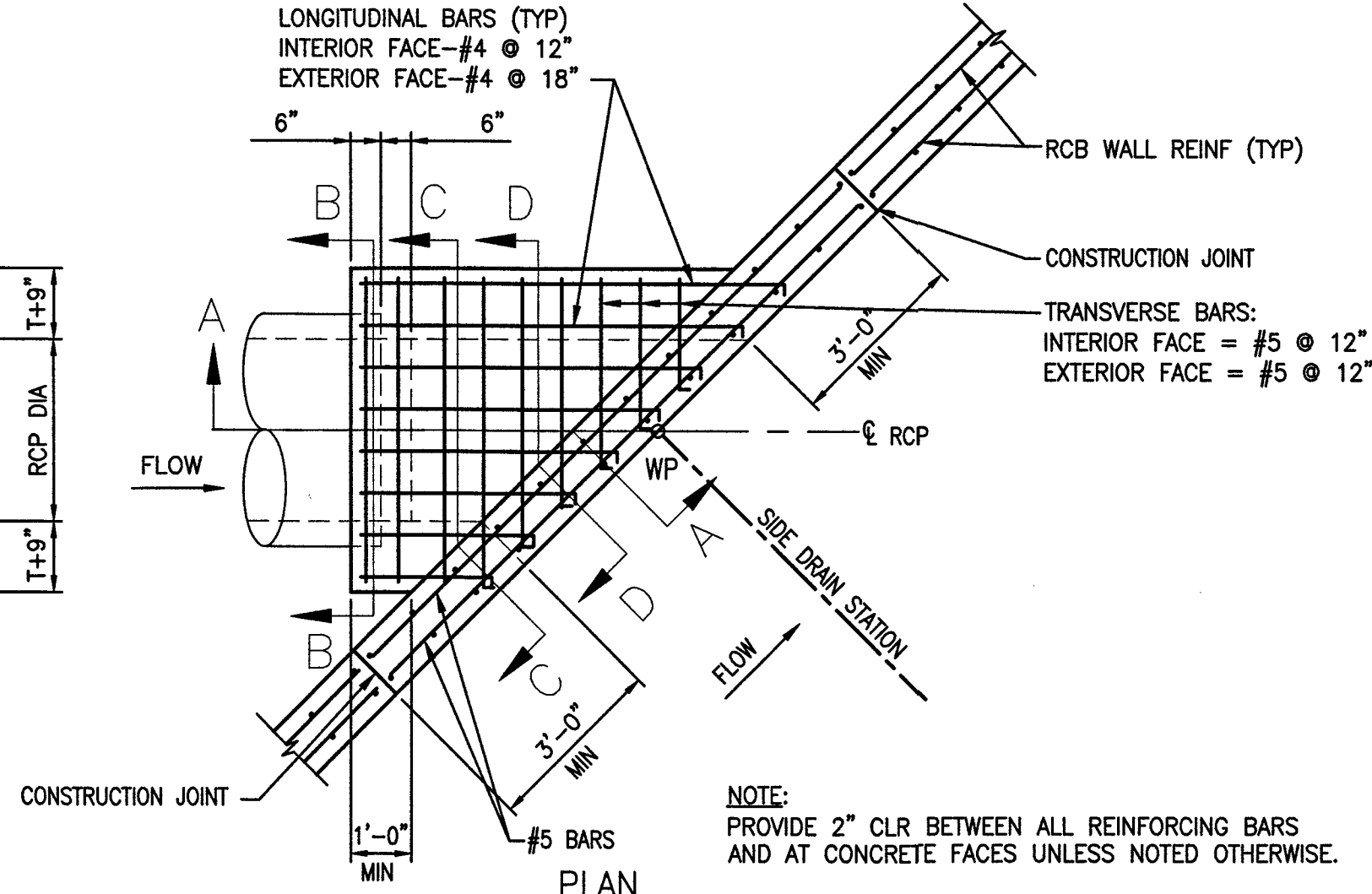
SECTION A-A



SECTION D-D



SECTION B-B



PLAN

2 TYPICAL PIPE INTO SIDE OF CAST-IN-PLACE RCB DETAIL

SCALE: NTS

GENERAL STRUCTURAL NOTES

1. **DESIGN SPECIFICATIONS:** ASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SEVENTH EDITION, 2014.
2. **CONSTRUCTION SPECIFICATIONS:** CLARK COUNTY UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION EXCEPT AS NOTED BELOW AND IN THE SPECIAL PROVISIONS FOR THIS CONTRACT.
3. **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.
4. **CONCRETE:** CONCRETE SHALL BE CLASS D MODIFIED AND SHALL HAVE 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. CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE AS FOLLOWS:
 $f'_c = 4,500$ PSI UNLESS NOTED OTHERWISE
5. **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.
6. **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 95%.
7. **EPOXY:** EPOXY SHALL BE SIMPSON STRONG-TIE "SET-XP EPOXY-TIE ADHESIVE" PER ICC REPORT ESR-2508 OR APPROVED EQUAL. INSTALL IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
8. **STRUCTURAL STEEL:** ALL MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A36 UNLESS NOTED OTHERWISE. ALL HOLLOW STRUCTURAL SECTION (HSS) TUBE SHAPES SHALL BE ASTM A500, GRADE B. ALL W-SECTIONS SHALL BE ASTM A992. ALL PIPE SECTIONS SHALL BE ASTM A53 GR. B.
9. **GALVANIZING:** ALL EXPOSED METAL AND METAL PARTS SHALL BE GALVANIZED. GALVANIZING DAMAGED BY FABRICATION SHALL RECEIVE TWO COATS OF ZINC RICH PAINT (GALVANOX OR EQUAL).
10. INVERTS, SLOPES, BEARINGS, ALIGNMENTS, AND ELEVATIONS SHOWN ARE FOR "REFERENCE ONLY". INFORMATION ON CIVIL DRAWINGS SHALL GOVERN.
11. CONTRACTOR SHALL PROVIDE SLOPE STABILIZATION, SHEETING, BRACING, AND/OR SHORING AS REQUIRED TO PROTECT EXISTING EMBANKMENTS, STRUCTURES, AND UNDERGROUND ITEMS.
12. **PRECAST OPTION:** DESIGNS PROVIDED ON THE ST SHEETS ARE FOR CAST-IN-PLACE CONSTRUCTION. AT CONTRACTOR'S OPTION AND AT NO ADDITIONAL COST TO OWNER, EITHER CAST-IN-PLACE OR PRECAST CONSTRUCTION MAY BE PROVIDED. THE DESIGN OF PRECAST STRUCTURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND PRECAST MANUFACTURER. DESIGNS SHALL CONFORM TO THE SPECIAL PROVISIONS. DESIGNS SHALL BE SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NEVADA. DESIGNS, INCLUDING SHOP DRAWINGS AND CALCULATIONS, SHALL BE SUBMITTED TO THE OWNER AND ENGINEER FOR APPROVAL PRIOR TO MANUFACTURING.

SPECIAL INSPECTION:

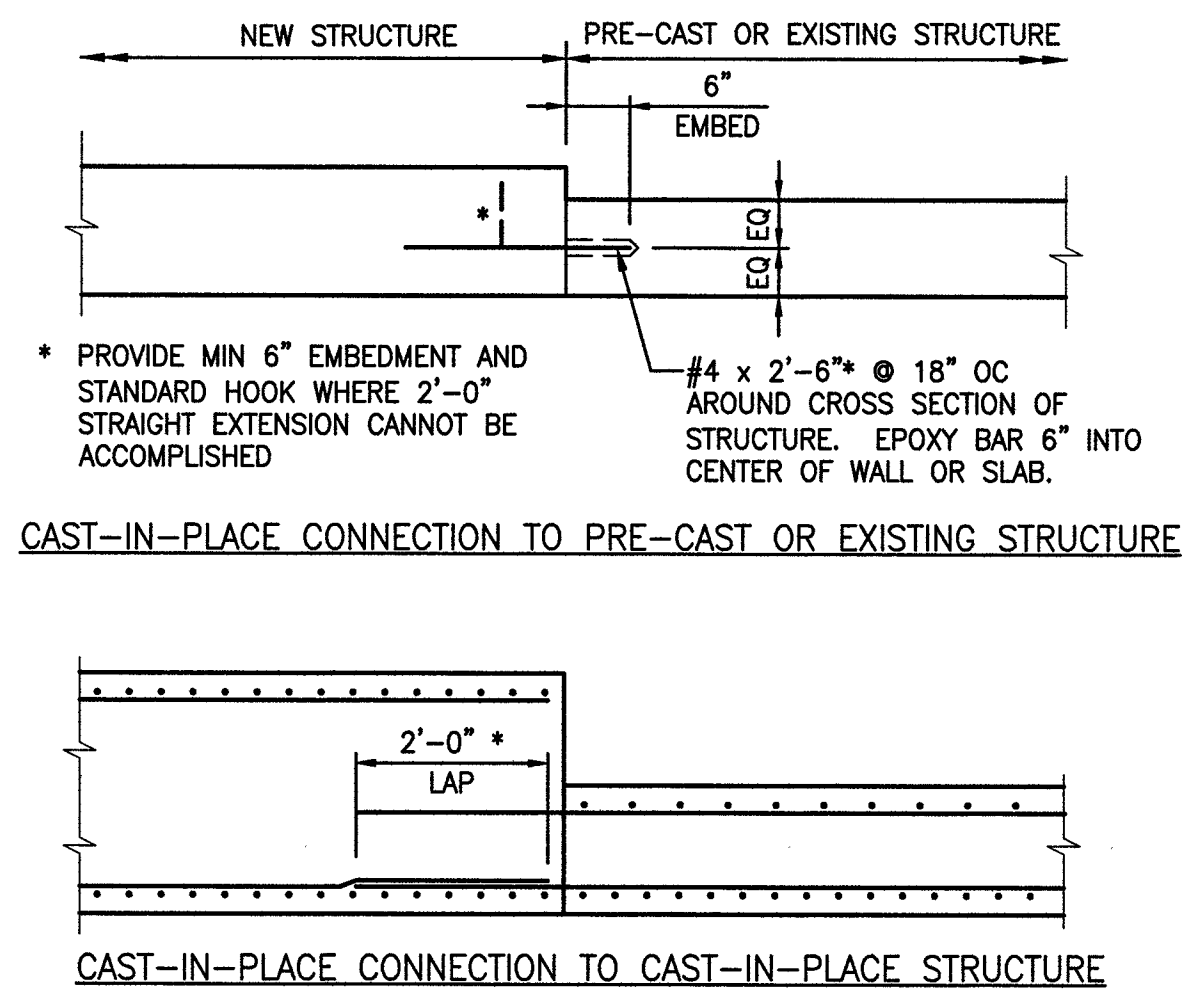
	CONTINUOUS MONITORING	PERIODIC MONITORING
FOUNDATION SOILS, EXCAVATIONS, FILL MATERIALS, SUBGRADE		X
PLACEMENT AND COMPACTION OF FILL	X	
REBAR PLACEMENT IN CONCRETE		X
ANCHORS CAST IN CONCRETE		X
VERIFICATION OF CONCRETE MIX DESIGN		X
SAMPLING OF FRESH CONCRETE AND PLACEMENT	X	
CONCRETE CURING AND FORMWORK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

1. SPECIAL INSPECTIONS ARE TO BE PERFORMED BY QUALIFIED FIRMS OR PERSONNEL. THE SPECIAL INSPECTOR MUST BE CERTIFIED BY CLARK COUNTY IN THE CATEGORY OF WORK REQUIRED TO HAVE SPECIAL INSPECTION.
2. THE CONSTRUCTION MATERIALS TESTING LABORATORY MUST BE APPROVED BY CLARK COUNTY, FOR TESTING OF MATERIALS, SYSTEMS, COMPONENTS, AND EQUIPMENTS.
3. AS IDENTIFIED WITHIN THE CONTRACT DOCUMENTS, AND THE IBC 2012 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.
4. THE SPECIAL INSPECTOR SHALL MAINTAIN A CURRENT "ERROR LOG" WHICH SHALL TRACK ALL WORK NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS, SHALL TRACK WHEN WORK ITEMS NOT IN COMPLIANCE HAVE BEEN CORRECTED OR WHEN ITEMS HAVE BEEN ACCEPTED, IN WRITING, AS CONSTRUCTED BY THE ENGINEER OF RECORD.

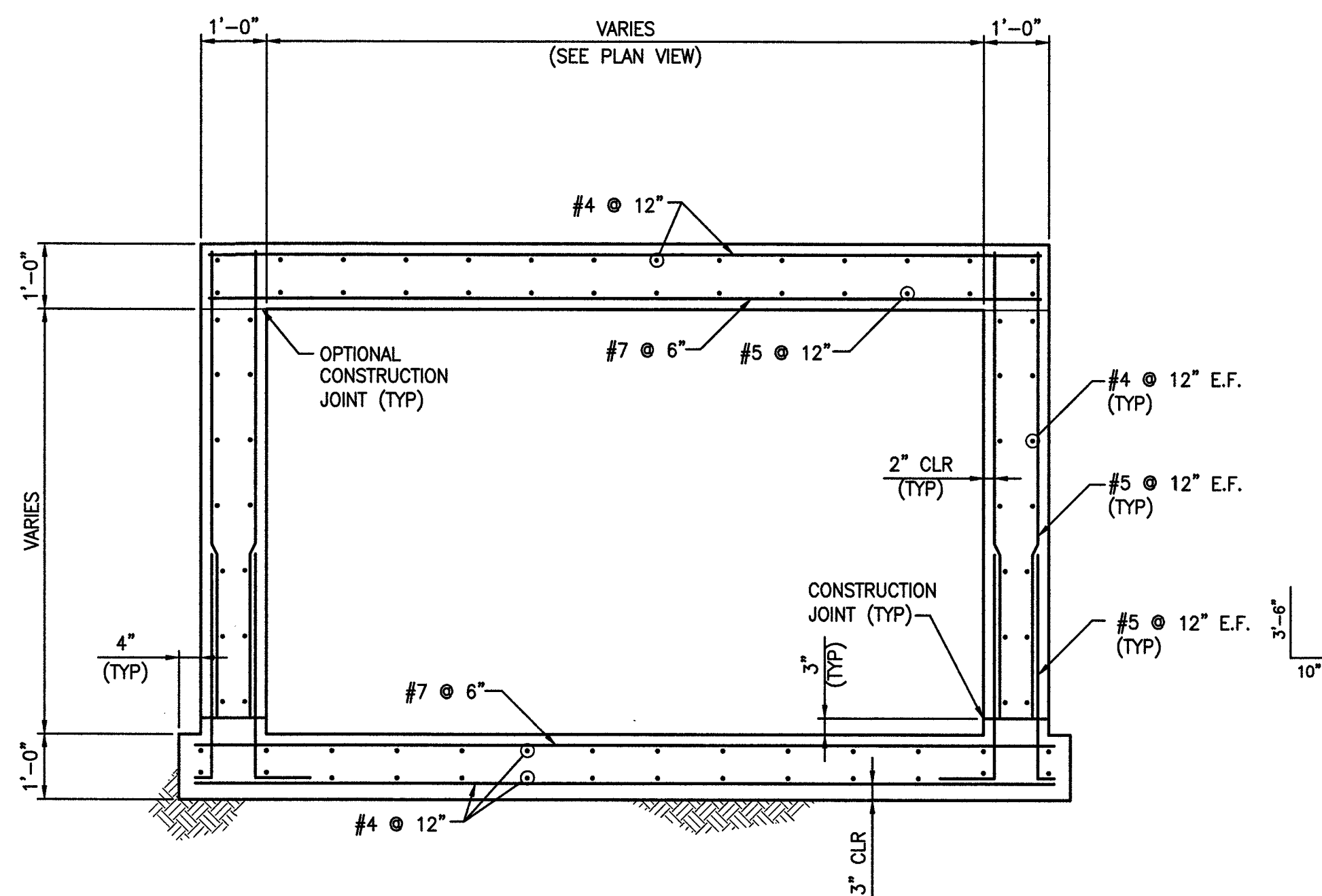
RECORD DRAWINGS

RECORD DRAWINGS COMPLETED: JANUARY 2020
BY GCW, INC.
PROJECT FINAL COMPLETION: OCTOBER 9, 2019
CONTRACTOR: LAS VEGAS PAVING CORP.
CONSTRUCTION MANAGER: DIVERSIFIED CONSULTING SERVICES
THESE DRAWINGS HAVE BEEN ALTERED TO INDICATE AS-BUILT INFORMATION AS PROVIDED BY THE CONSTRUCTION CONTRACTOR. THIS DATA MAY NOT REFLECT ACTUAL FIELD CONDITIONS. ALL DATA SHOULD BE CONFIRMED PRIOR TO INCLUSION IN SUBSEQUENT PLANS.

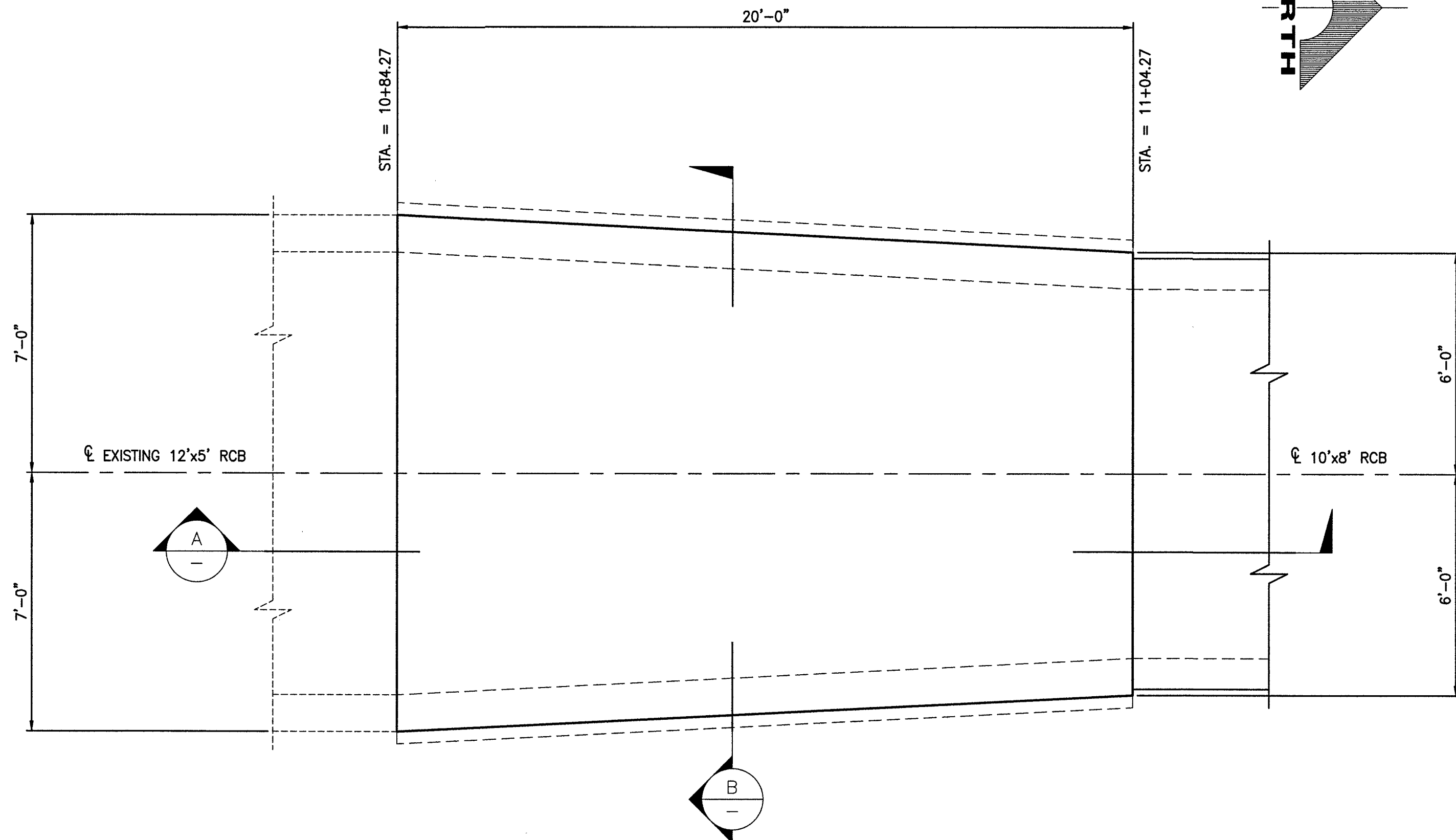
PREPARED BY		DESIGNED BY: EGG		DRAWN BY: EGG		CHECKED BY: DAT	
BID# 17-63891		DATE: 11/14/17		SUBMITTAL STAGE: 100% - FINAL			
CITY OF LAS VEGAS GOWAN NORTH - EL CAPITAN BRANCH LOVE MOUNTAIN ROAD TO ANN ROAD							
GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS							
RECORD DRAWINGS SHEET SEALED 11/14/2017 ENGINEER OF RECORD: ERIC G. GILES P.E. No. 14570 ST1 47 OF 52 DRAWING NO. 327V294							



2 CONSTRUCTION JOINT DETAIL
SCALE: NTS

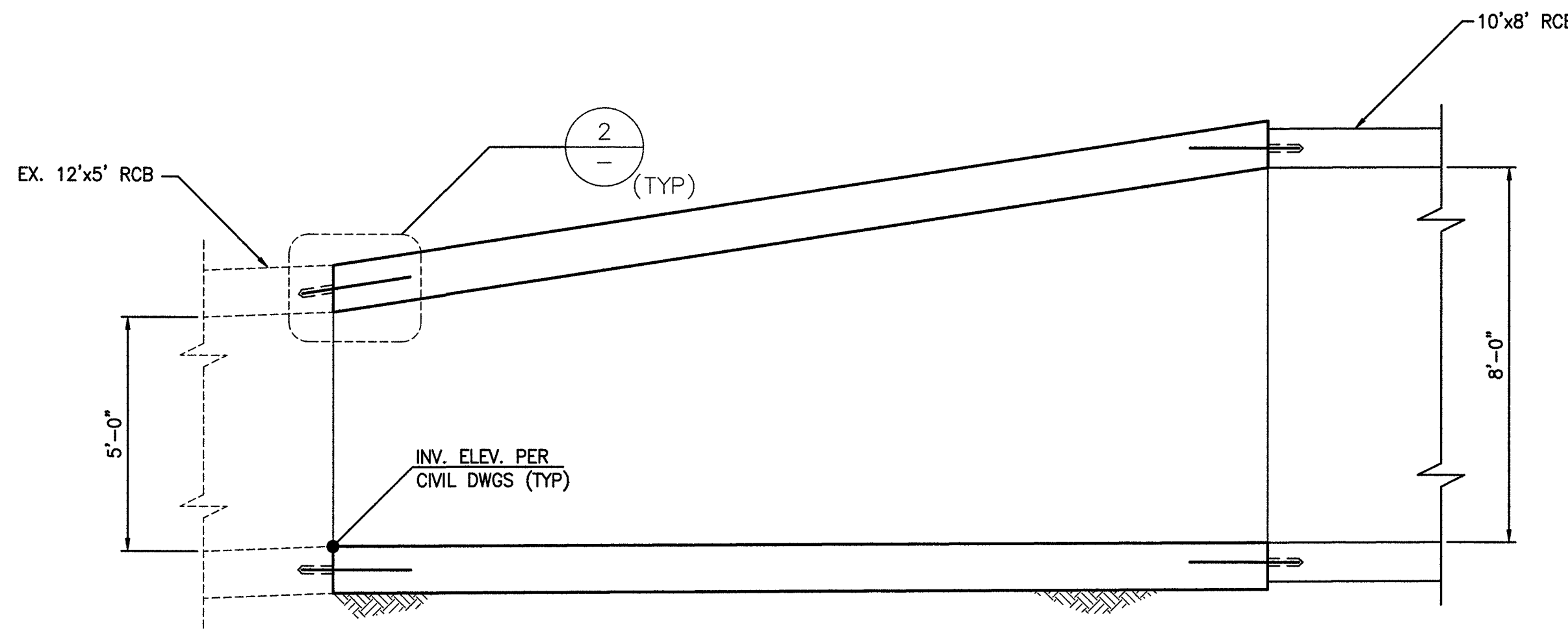


B SECTION
SCALE: 1/2" = 1'-0"

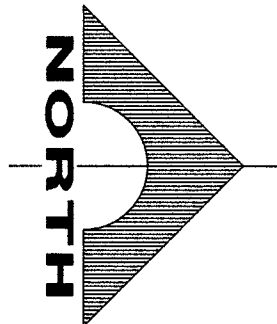


1 PLAN - 10'x8' RCB TO 12'x5' RCB TRANSITION STRUCTURE
SCALE: 3/8" = 1'-0"

RECORD DRAWINGS
RECORD DRAWINGS COMPLETED: JANUARY 2020
BY GCW, INC.
PROJECT FINAL COMPLETION: OCTOBER 9, 2019
CONTRACTOR: LAS VEGAS PAVING CORP.
CONSTRUCTION MANAGER: DIVERSIFIED CONSULTING SERVICES
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A SECTION
SCALE: 3/8" = 1'-0"



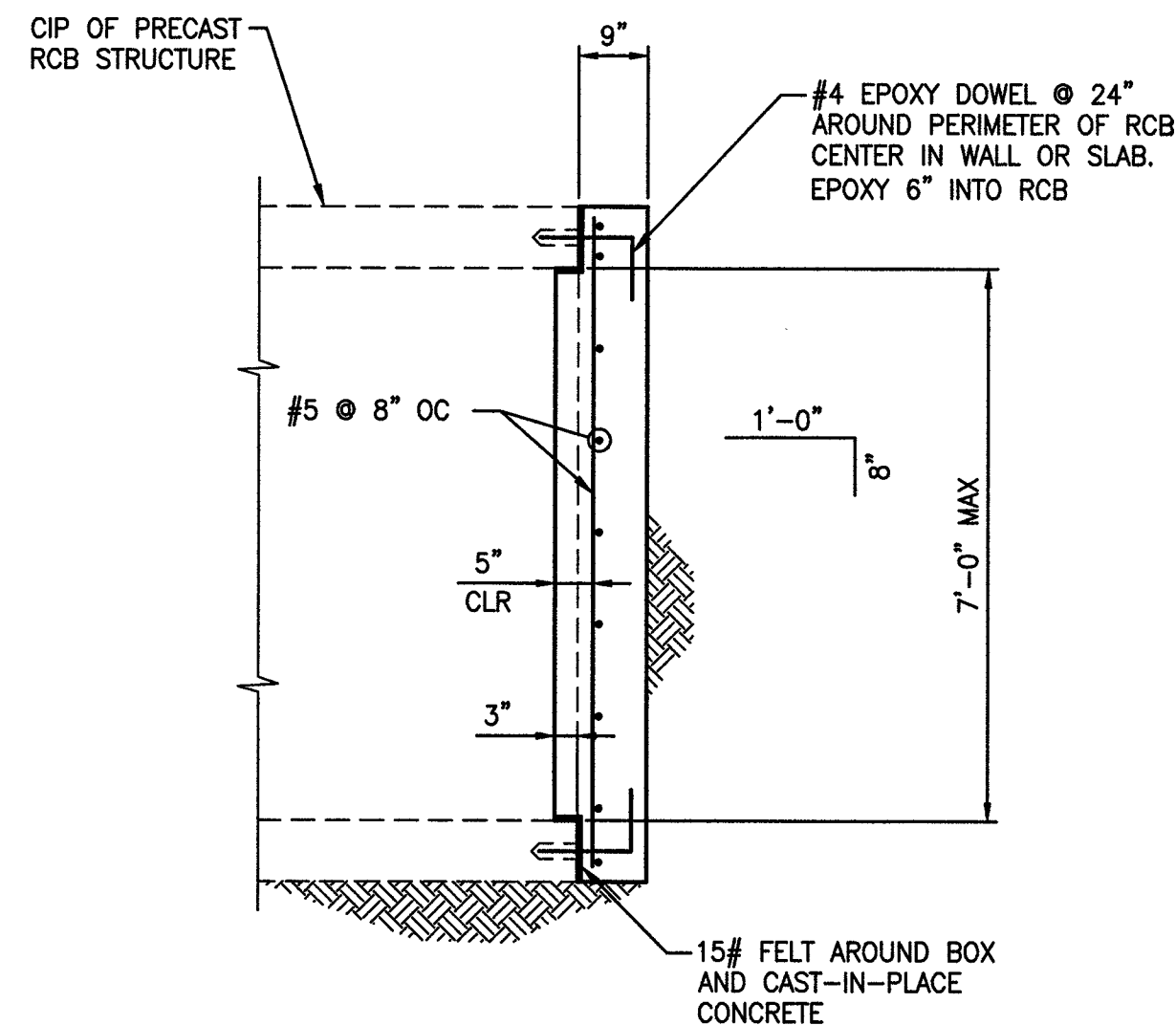
PREPARED BY		NO.		DATE		REVISIONS	
GCW							
1555 S. RAINBOW BLVD. LAS VEGAS, NV 89146 T: 702.804.2000 F: 702.804.2299 ENGINEERS SURVEYORS gcwengineering.com							
PREPARED FOR		DESIGNED BY: EGG		DRAWN BY: EGG		CHECKED BY: DAT	
CITY OF LAS VEGAS		DATE: 11/14/17		SUBMITTAL STAGE:		100% - FINAL	
H# 63691		DATE: 11/14/17		SUBMITTAL STAGE:		100% - FINAL	
PROJECT TITLE		SHEET		RECORD DRAWINGS		SHEET SEALED 11/14/2017	
GOWAN NORTH - EL CAPITAN BRANCH		10'x8' RCB TO 12'x5' RCB		ENGINEER OF RECORD:		ERIC G. GILES	
LONE MOUNTAIN ROAD TO ANN ROAD		TRANSITION STRUCTURE		P.E. No. 14570		SHEET	
						ST2	
						48 OF 52	
						DRAWING NO. 327V294	

W.P.C.

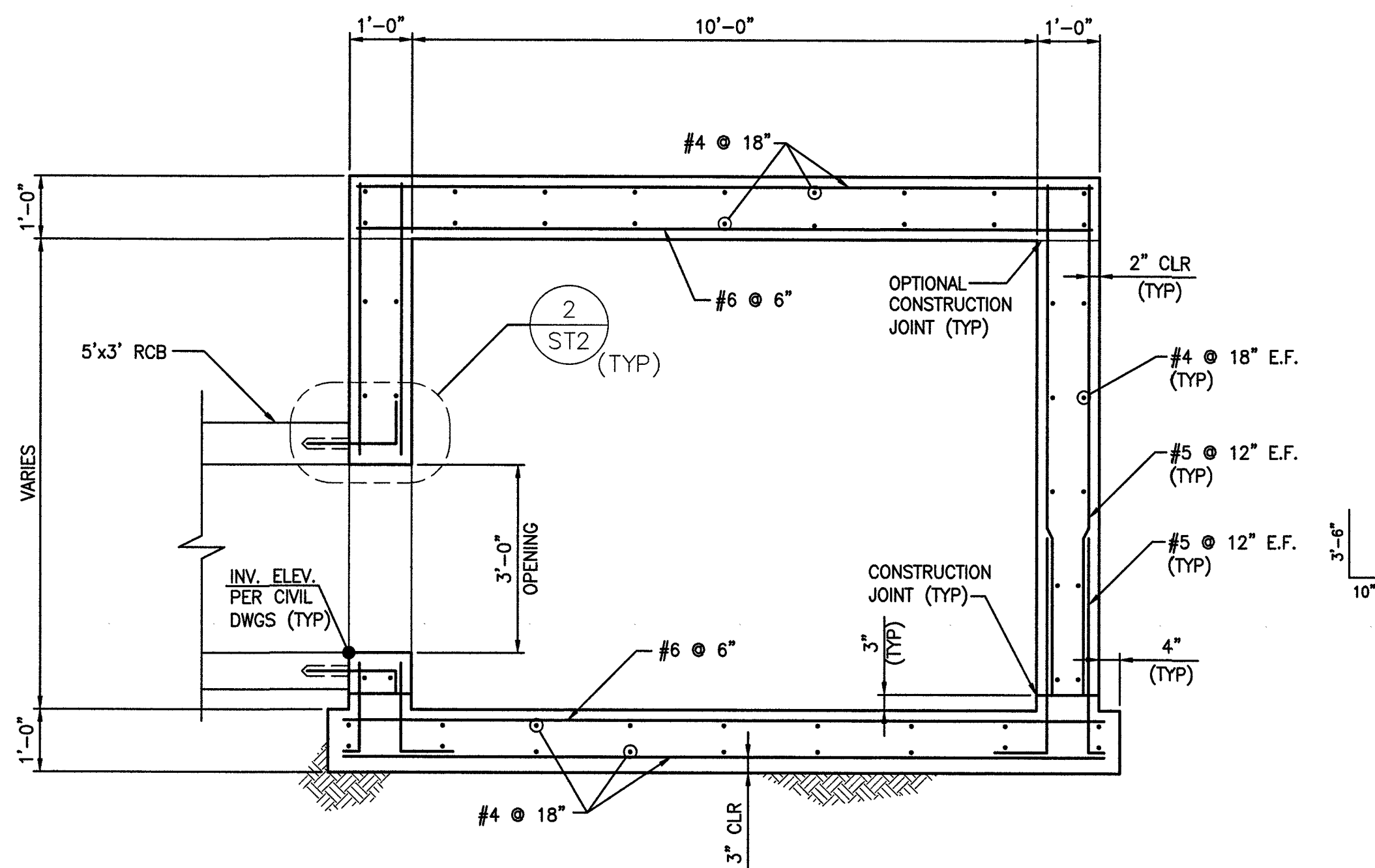
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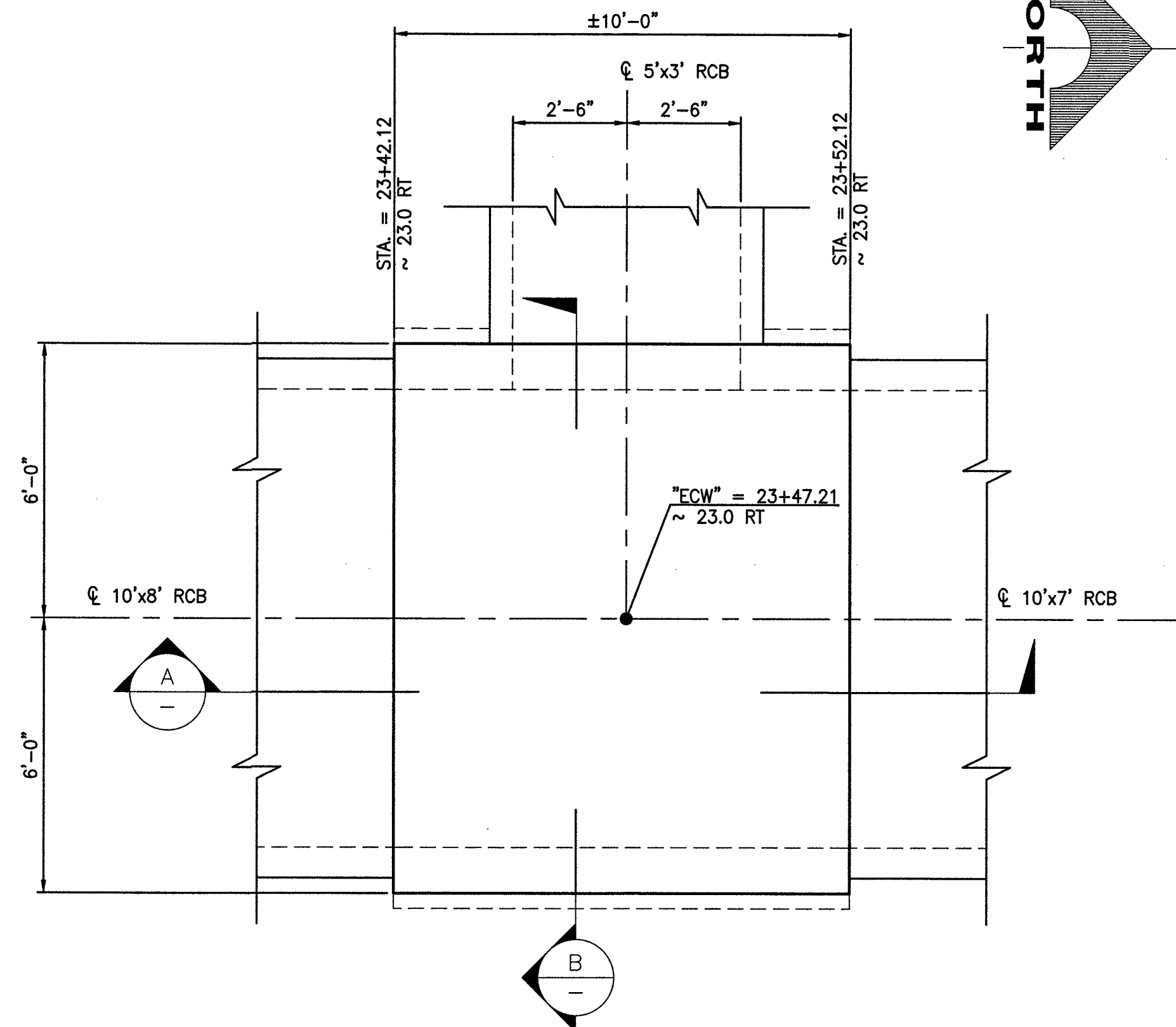
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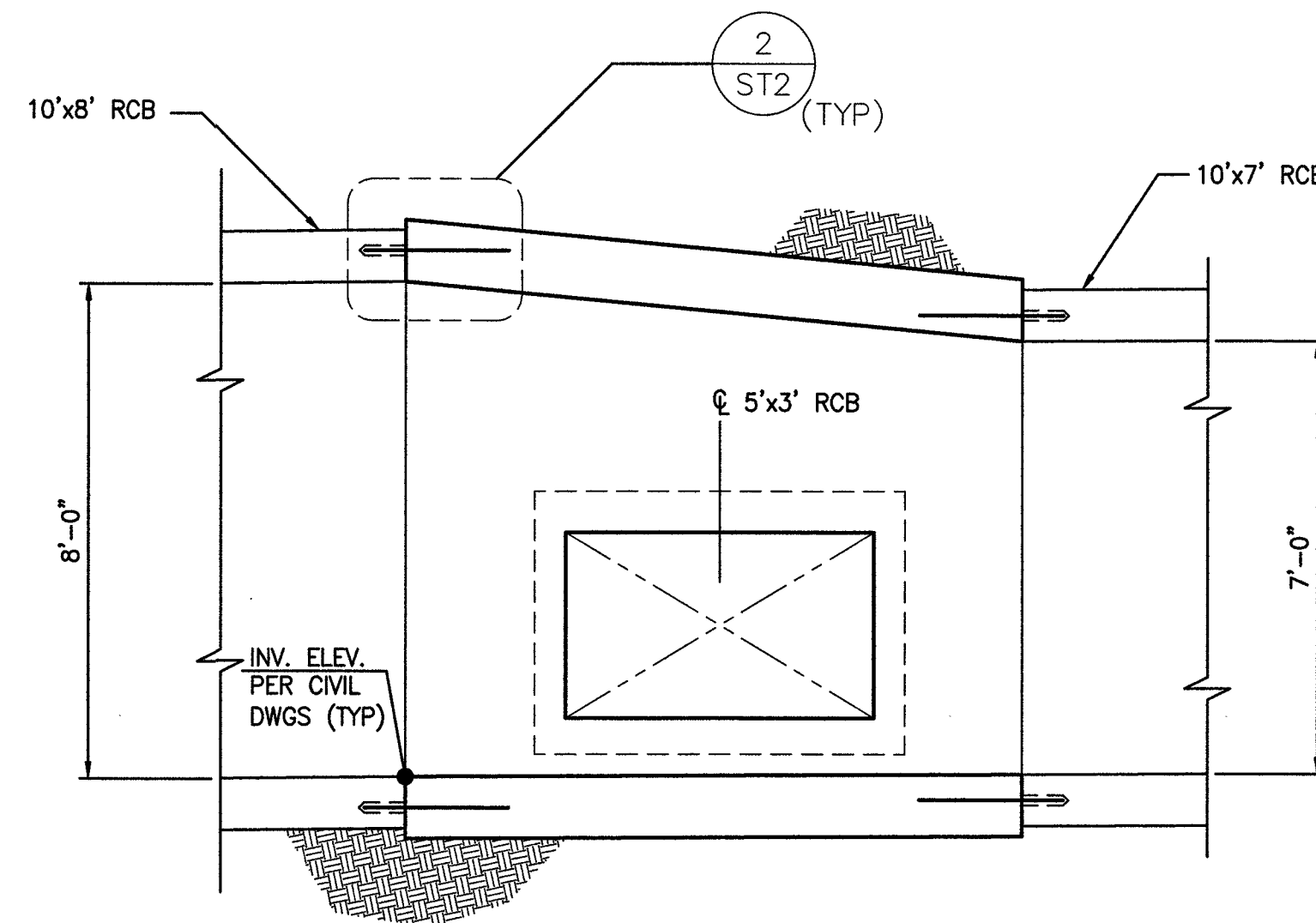
2 PLUG DETAIL
SCALE: NTS



B SECTION
SCALE: 1/2" = 1'-0"



1 PLAN - JUNCTION STRUCTURE #1
SCALE: 3/8" = 1'-0"



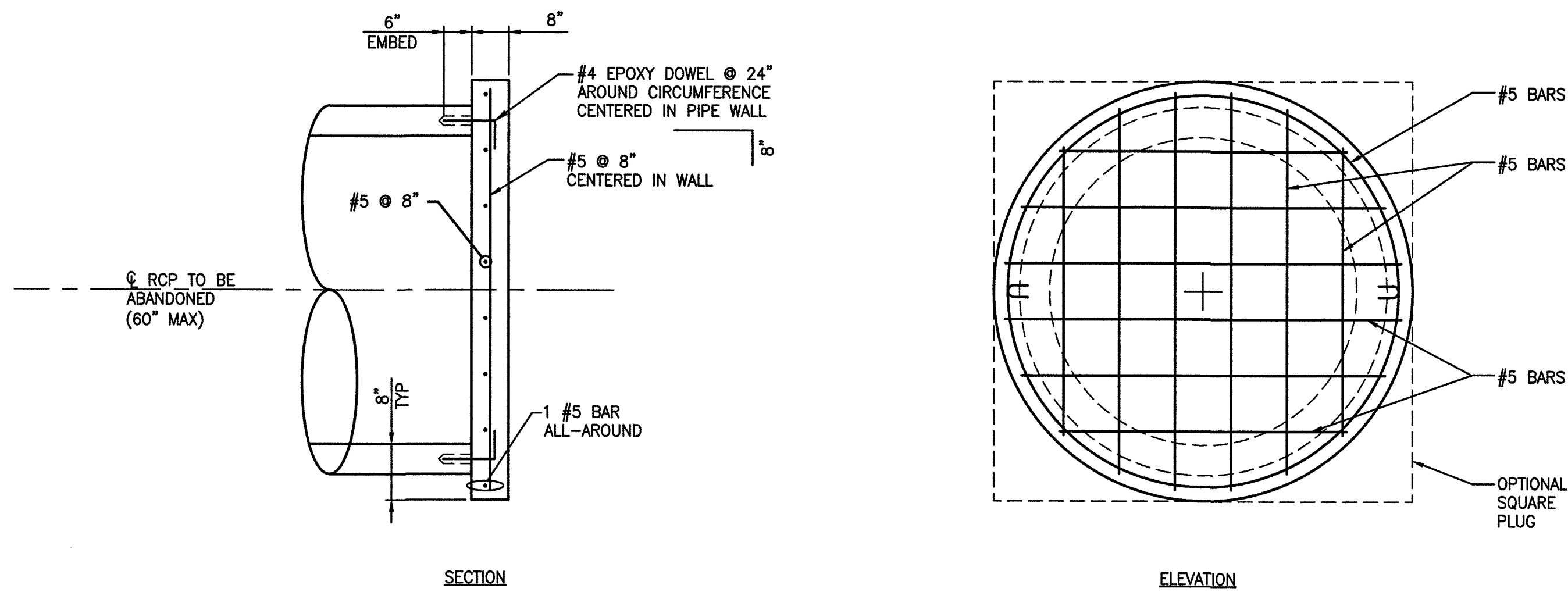
A SECTION
SCALE: 3/8" = 1'-0"

RECORD DRAWINGS
RECORD DRAWINGS COMPLETED: JANUARY 2020
BY GCW, INC.
PROJECT FINAL COMPLETION: OCTOBER 9, 2019
CONTRACTOR: LAS VEGAS PAVING CORP.
CONSTRUCTION MANAGER: DIVERSIFIED CONSULTING SERVICES
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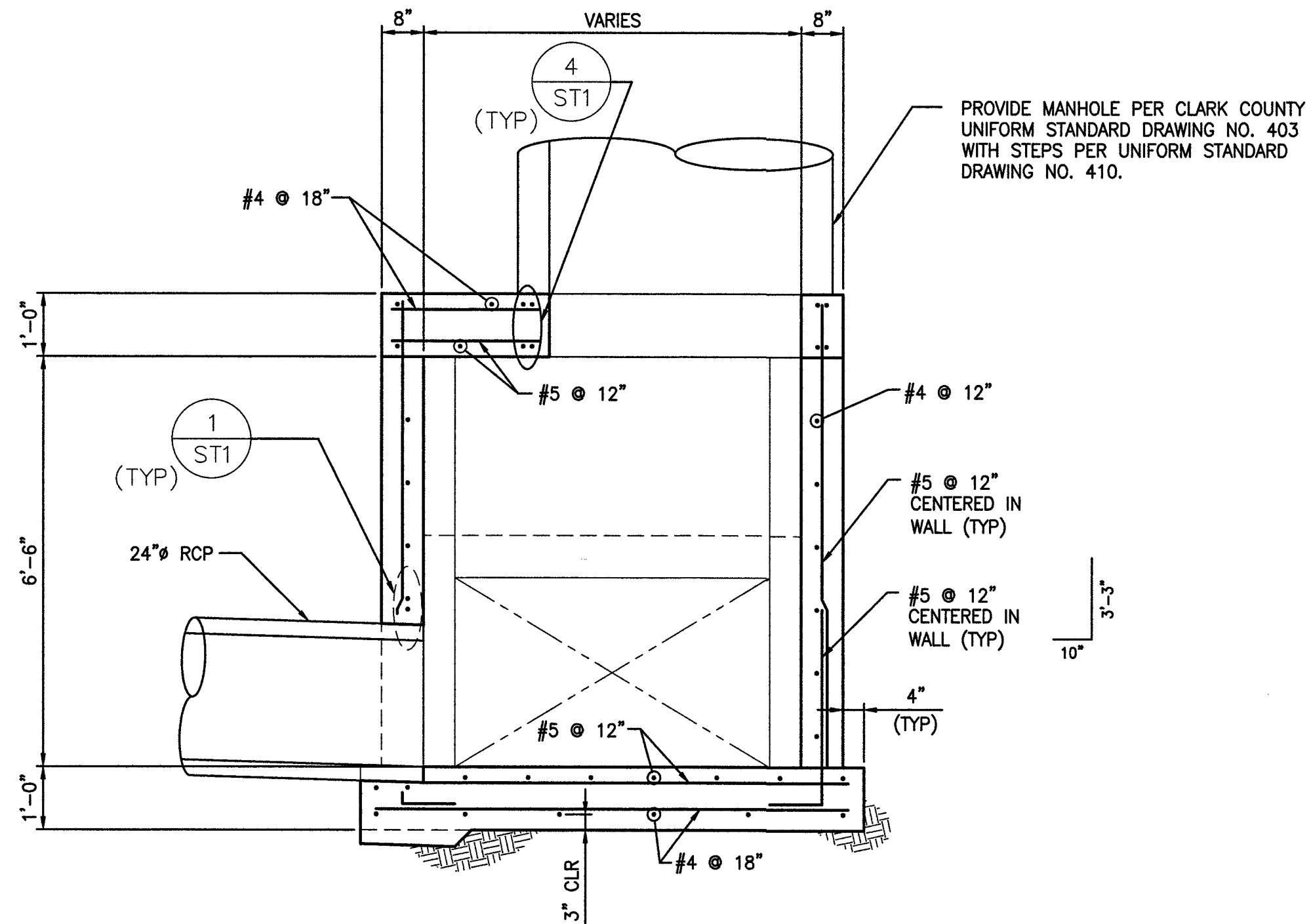
PREPARED BY		CITY OF LAS VEGAS		H# 63691		DATE: 11/14/17		SUBMITTAL STAGE		100% - FINAL	
DESIGNED BY: EGG		DRAWN BY: EGG		CHECKED BY: DAT		DATE: 11/14/17		SUBMITTAL STAGE		100% - FINAL	
ENGINEERS SURVEYORS		GCW		1555 S. RAINBOW BLVD. LAS VEGAS, NV 89146 T: 702.804.2000 F: 702.804.2299 gcwengineering.com		TITLE		GOWAN NORTH - EL CAPITAN BRANCH LONE MOUNTAIN ROAD TO ANN ROAD		SHEET	
NO.		DATE		REVISIONS		JUNCTION STRUCTURE #1		RECORD DRAWINGS		SHEET SEALED 11/14/2017	
ENGINEER OF RECORD		ERIC G. GILES		P.E. No. 14570		SHEET		ST3		49 OF 52	
DRAWING NO.		327V294									

RECORD DRAWINGS

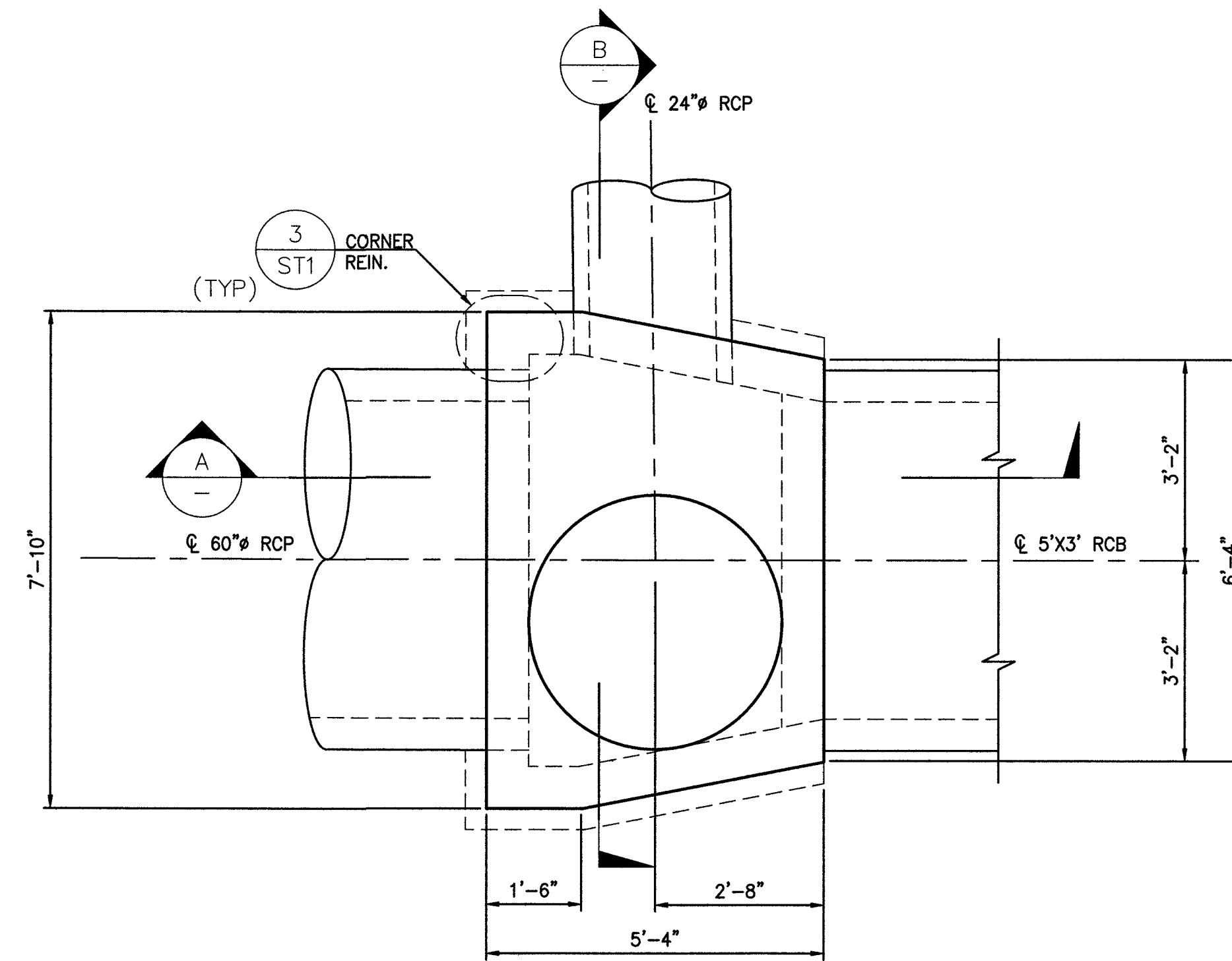
RECORD DRAWINGS COMPLETED: JANUARY 2020
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PROJECT FINAL COMPLETION: OCTOBER 9, 2019
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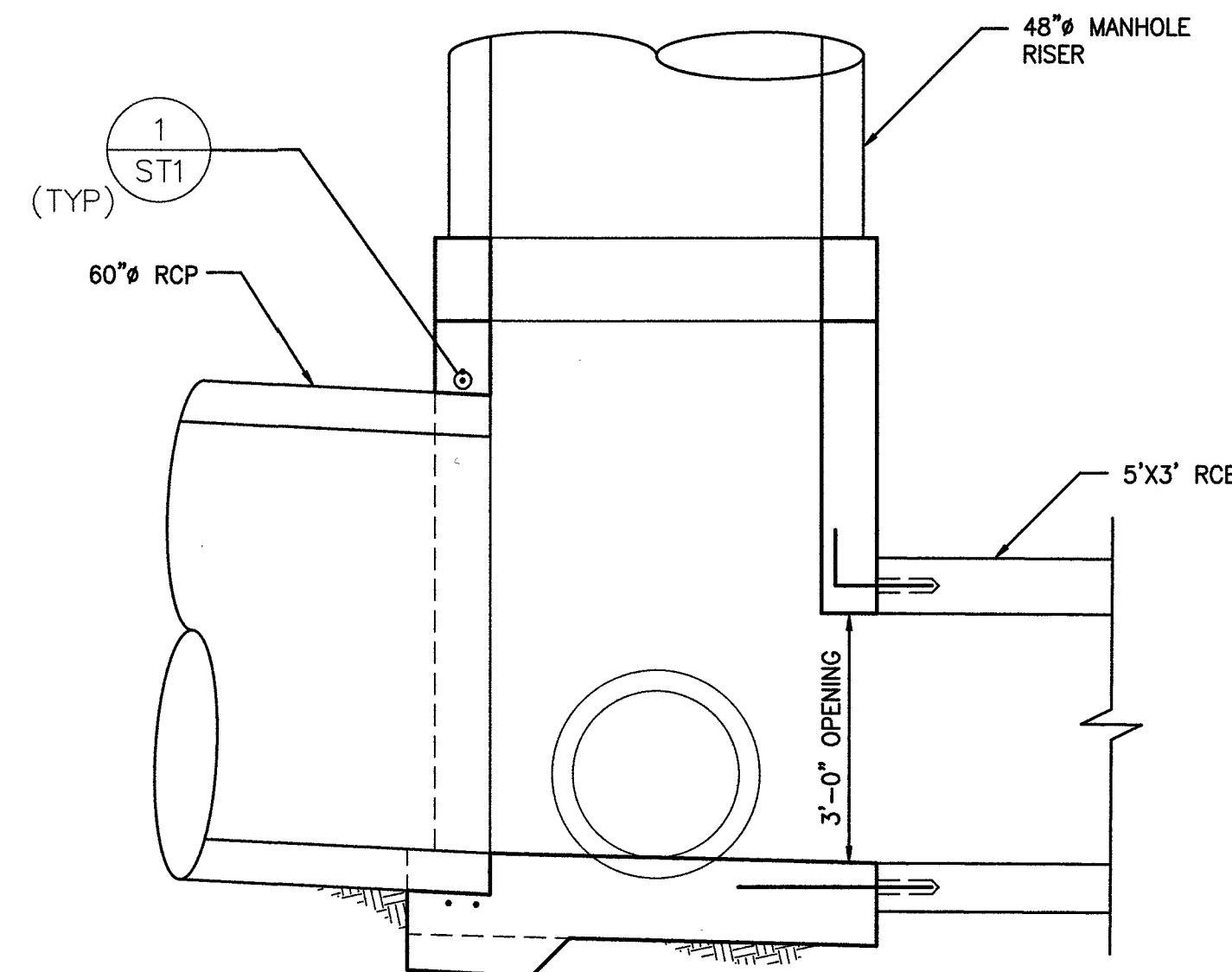
2 RCP PLUG DETAIL
SCALE: NTS



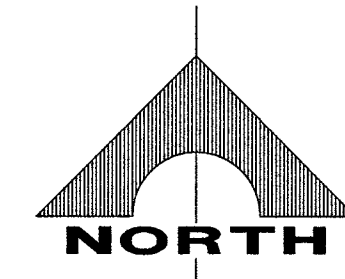
B SECTION
SCALE: 1/2" = 1'-0"



1 PLAN - JUNCTION STRUCTURE #2
SCALE: 1/2" = 1'-0"

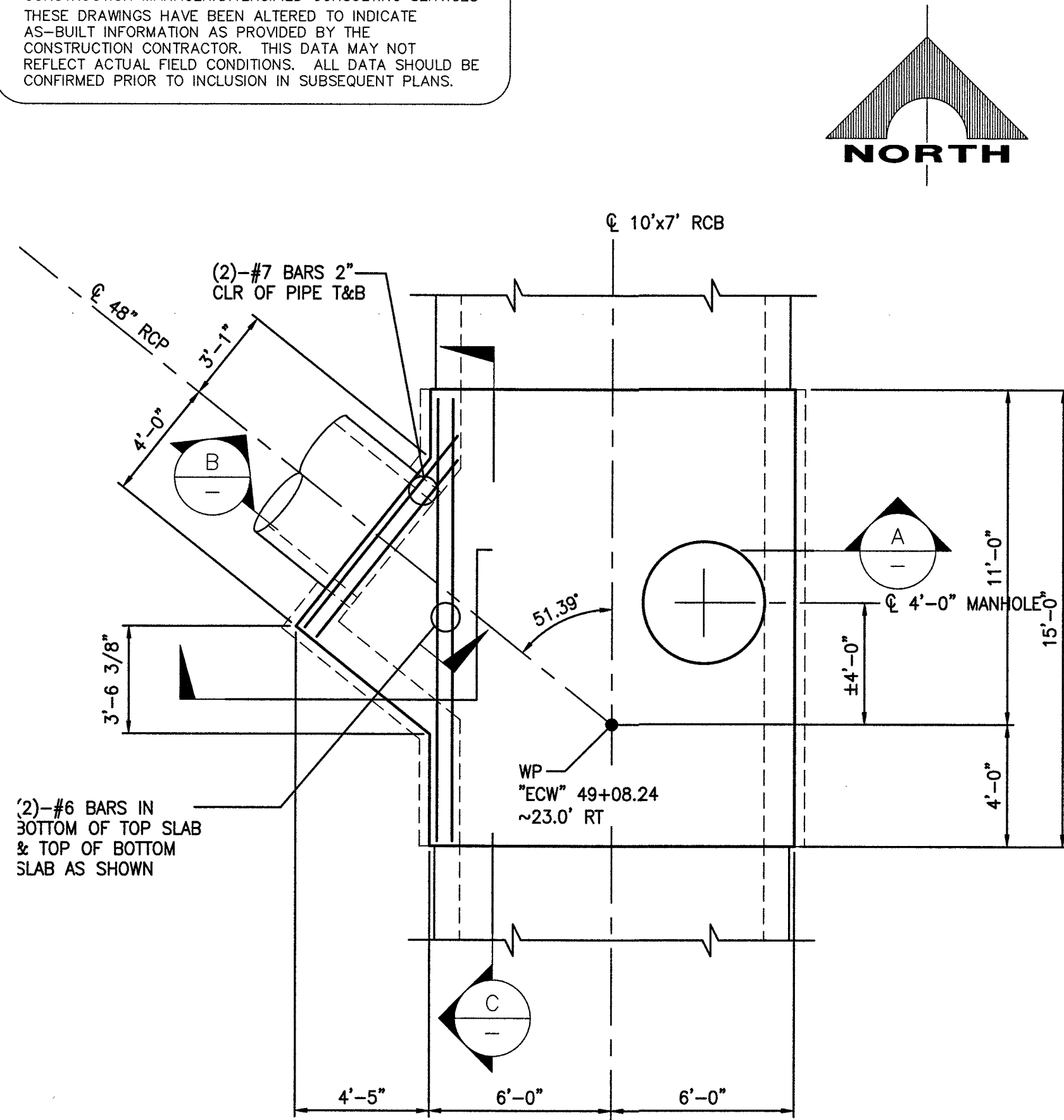


A SECTION
SCALE: 1/2" = 1'-0"

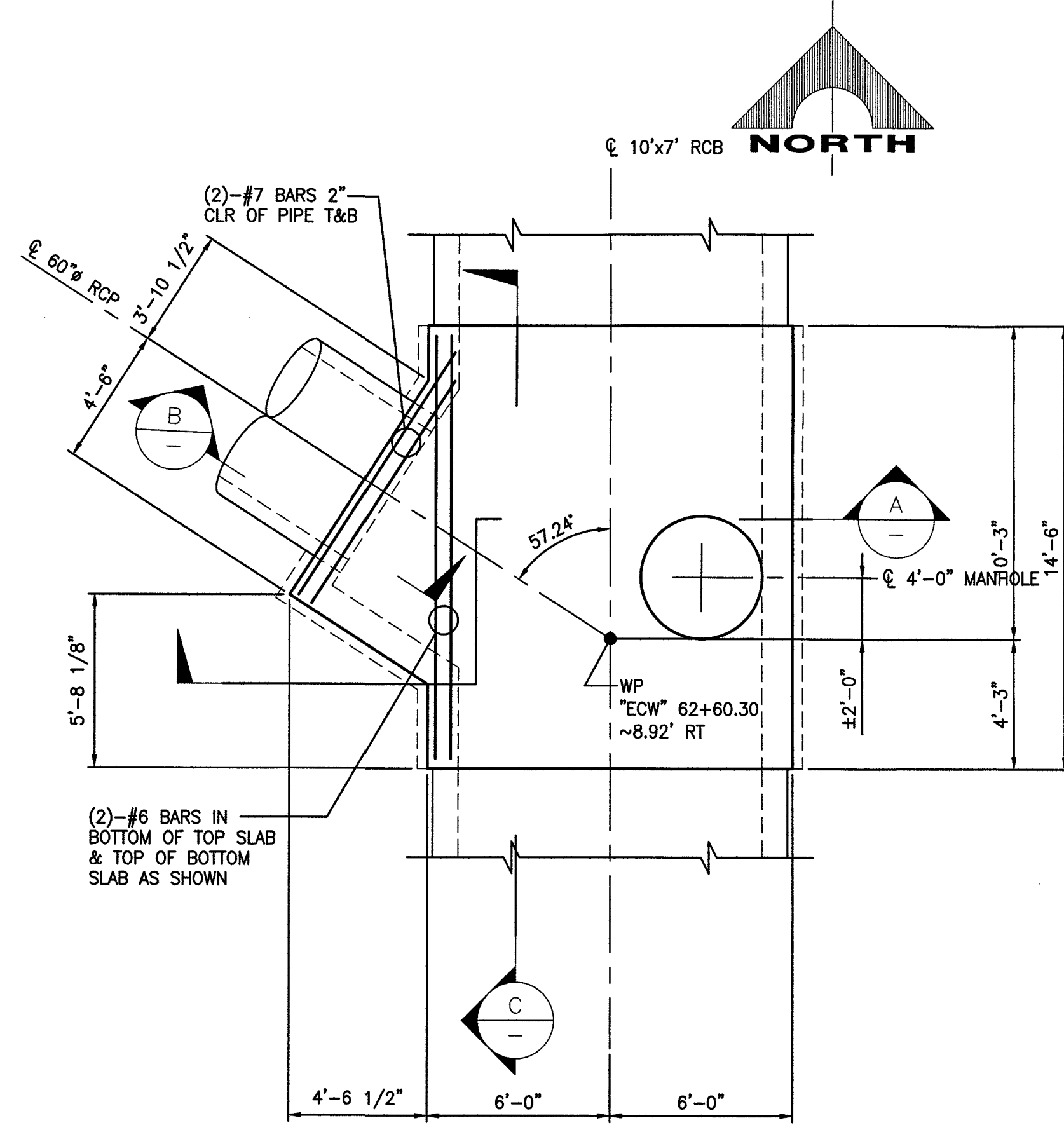


PREPARED BY		NO.		DATE		REVISIONS	
GCW							
1555 S. RAINBOW BLVD. LAS VEGAS, NV 89146 T: 702.804.2000 F: 702.804.2299 gcwengineering.com							
PREPARED FOR		DESIGNED BY: EGG		DRAWN BY: EGG		CHECKED BY: DAT	
CITY OF LAS VEGAS		DATE: 11/14/17		SUBMITTAL STAGE:		100% - FINAL	
GOWAN NORTH - EL CAPITAN BRANCH		H# 63891		DATE: 11/14/17		SUBMITTAL STAGE:	
LONE MOUNTAIN ROAD TO ANN ROAD		H# 63891		DATE: 11/14/17		SUBMITTAL STAGE:	
JUNCTION STRUCTURE #2		H# 63891		DATE: 11/14/17		SUBMITTAL STAGE:	
RECORD DRAWINGS		SHEET SEALED		11/14/2017		ENGINEER OF RECORD:	
50 OF 52		ERIC G. GILES		P.E. No. 14570		SHEET	
DRAWING NO.		327V294		ST4			

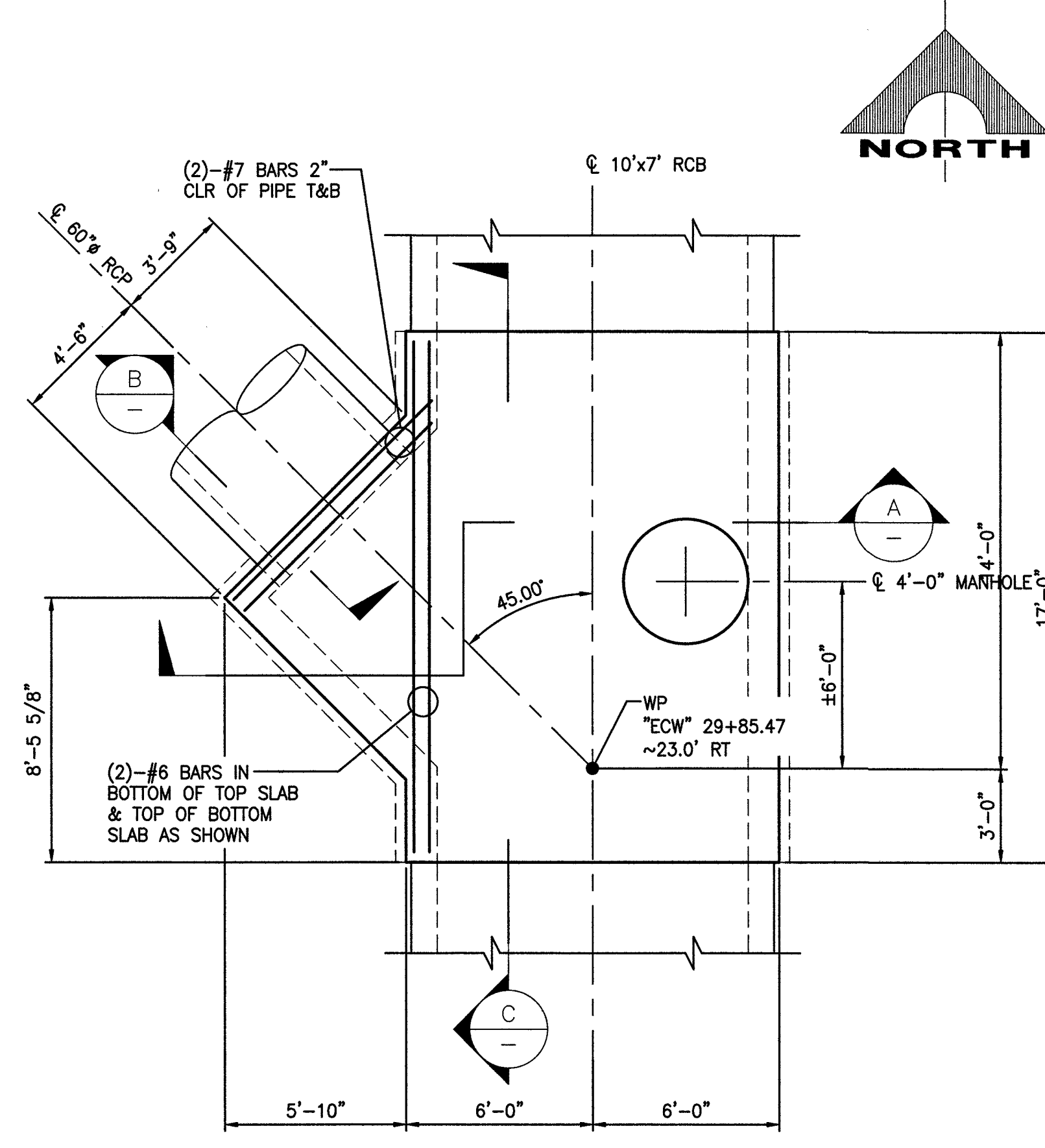
RECORD DRAWINGS
RECORD DRAWINGS COMPLETED: JANUARY 2020
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PROJECT FINAL COMPLETION: OCTOBER 9, 2019
CONTRACTOR: LAS VEGAS PAVING CORP.
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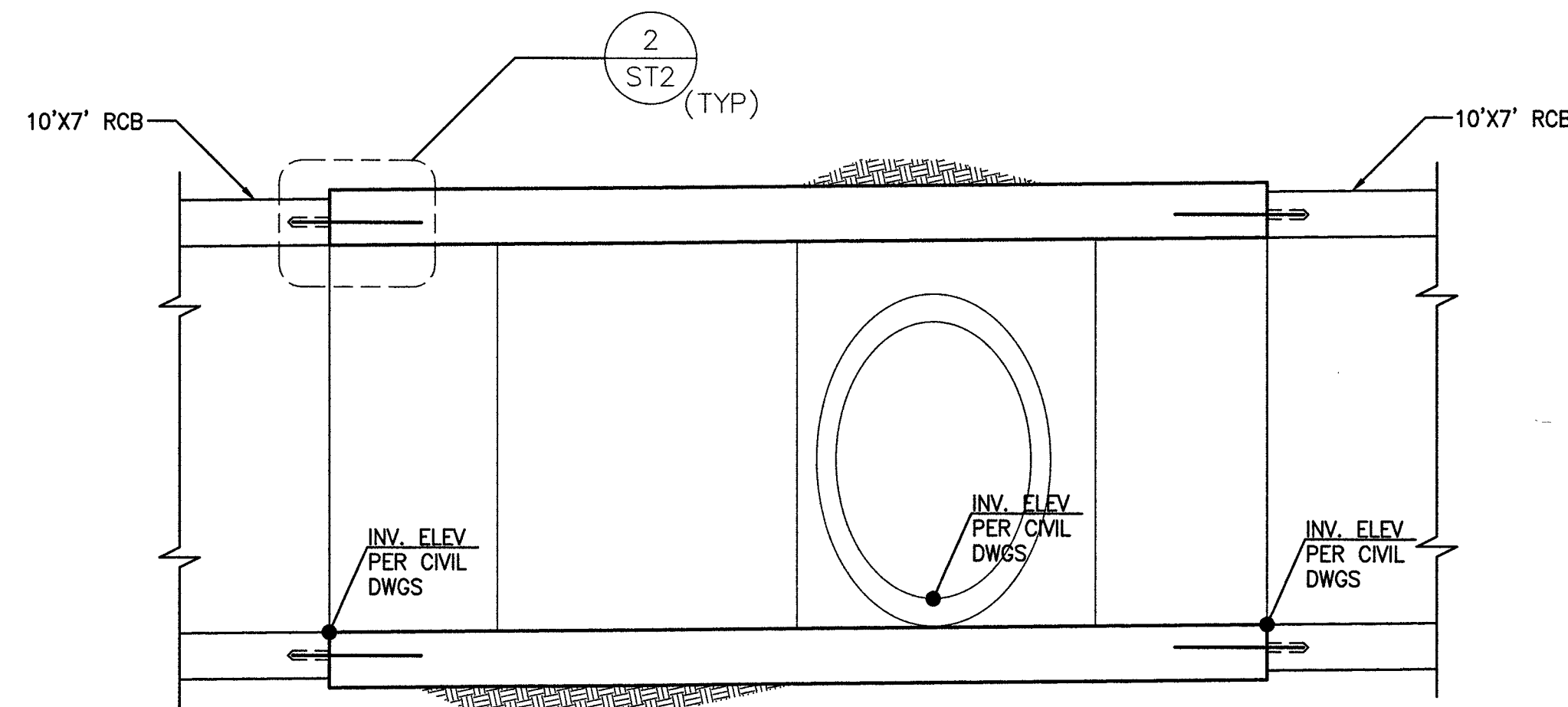
3 PLAN - JUNCTION STRUCTURE #5
SCALE: 1/4" = 1'-0"



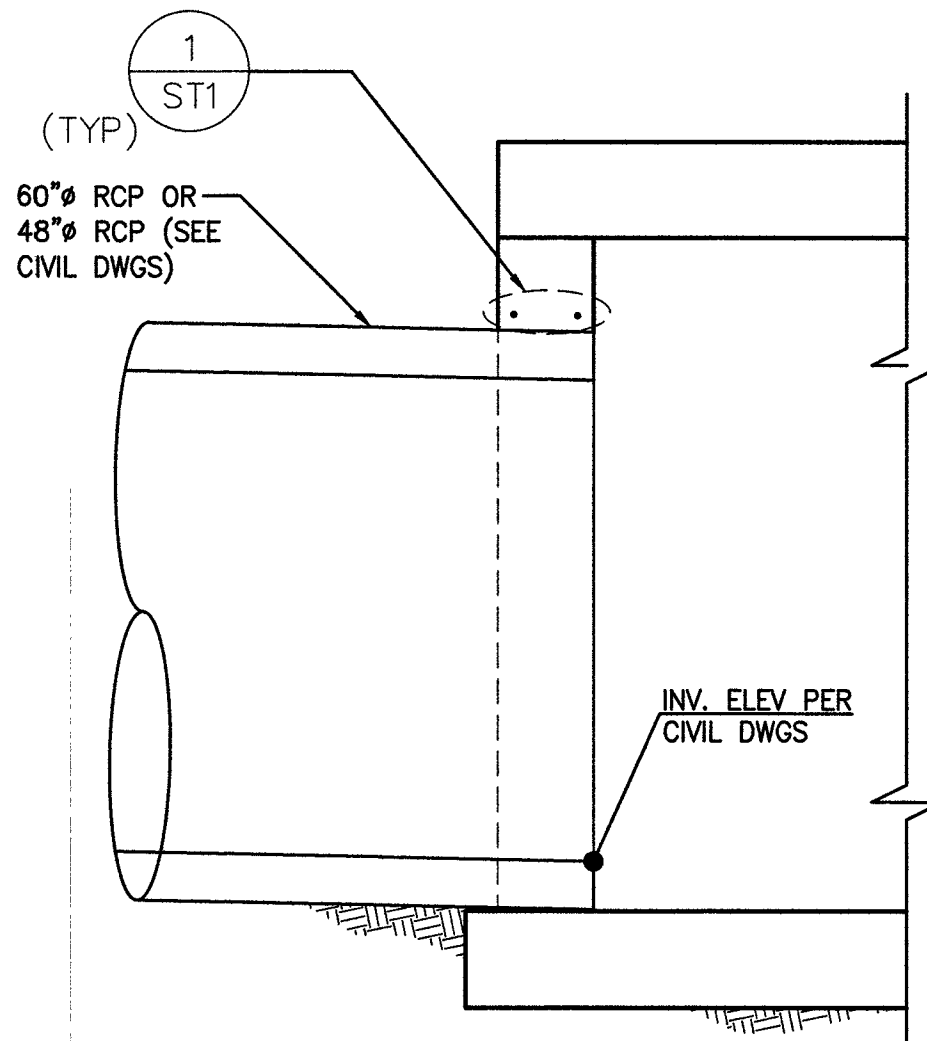
2 PLAN - JUNCTION STRUCTURE #4
SCALE: 1/4" = 1'-0"



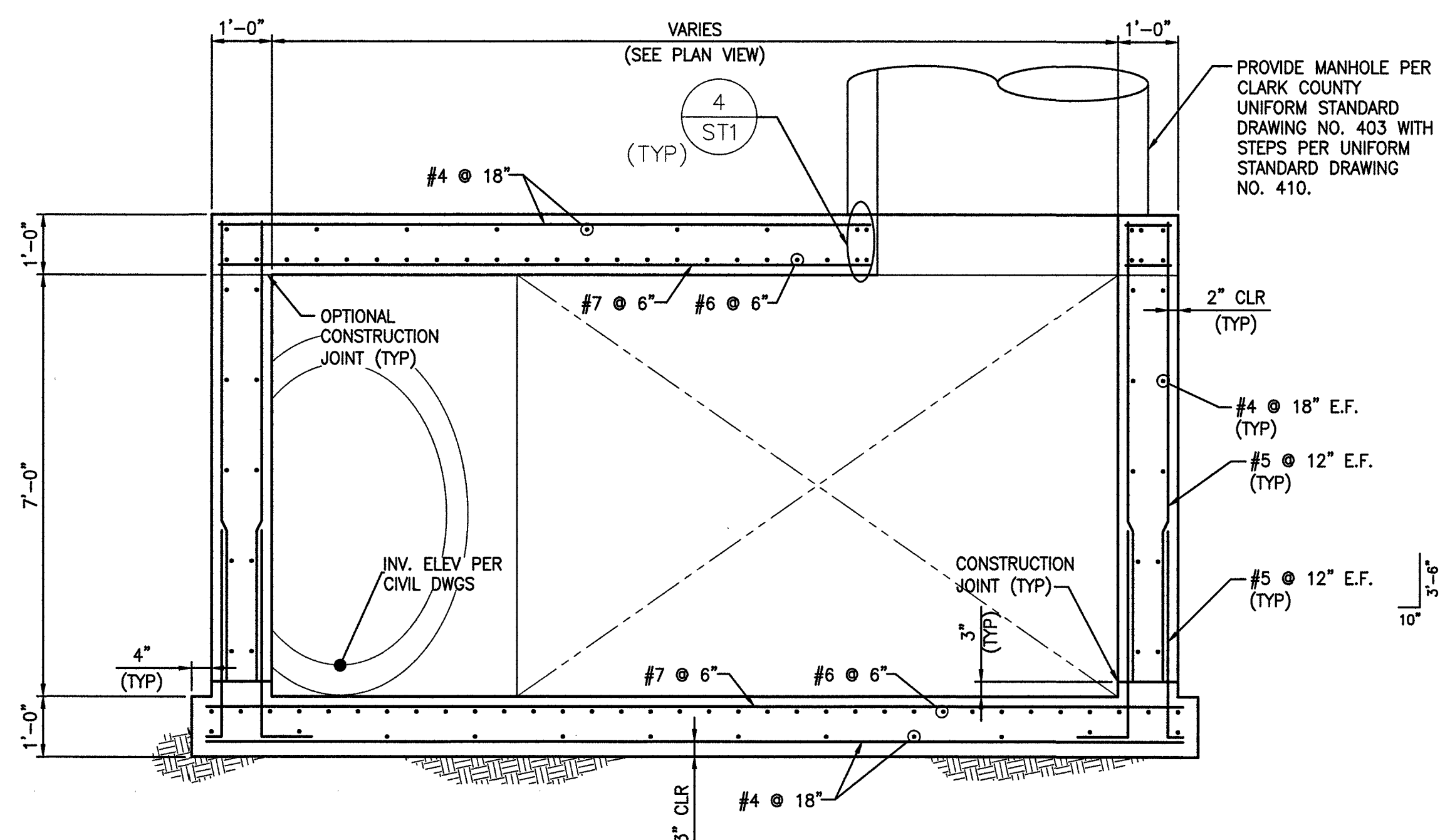
1 PLAN - JUNCTION STRUCTURE #3
SCALE: 1/4" = 1'-0"



C SECTION
SCALE: 3/8" = 1'-0"



B SECTION
SCALE: 1/2" = 1'-0"



A SECTION
SCALE: 1/2" = 1'-0"

NO.	DATE	REVISIONS

PREPARED BY
GCW
ENGINEERS & SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com

DESIGNED BY: EGG	CHECKED BY: DAT
DRAWN BY: EGG	
SUBMITTAL STAGE: 100% - FINAL	
DATE: 11/14/17	
H# 63891	
BID# 17-63891	

PREPARED FOR
CITY OF LAS VEGAS
GOWAN NORTH - EL CAPITAN BRANCH
LONE MOUNTAIN ROAD TO ANN ROAD
JUNCTION STRUCTURE #3, #4, & #5

RECORD DRAWINGS

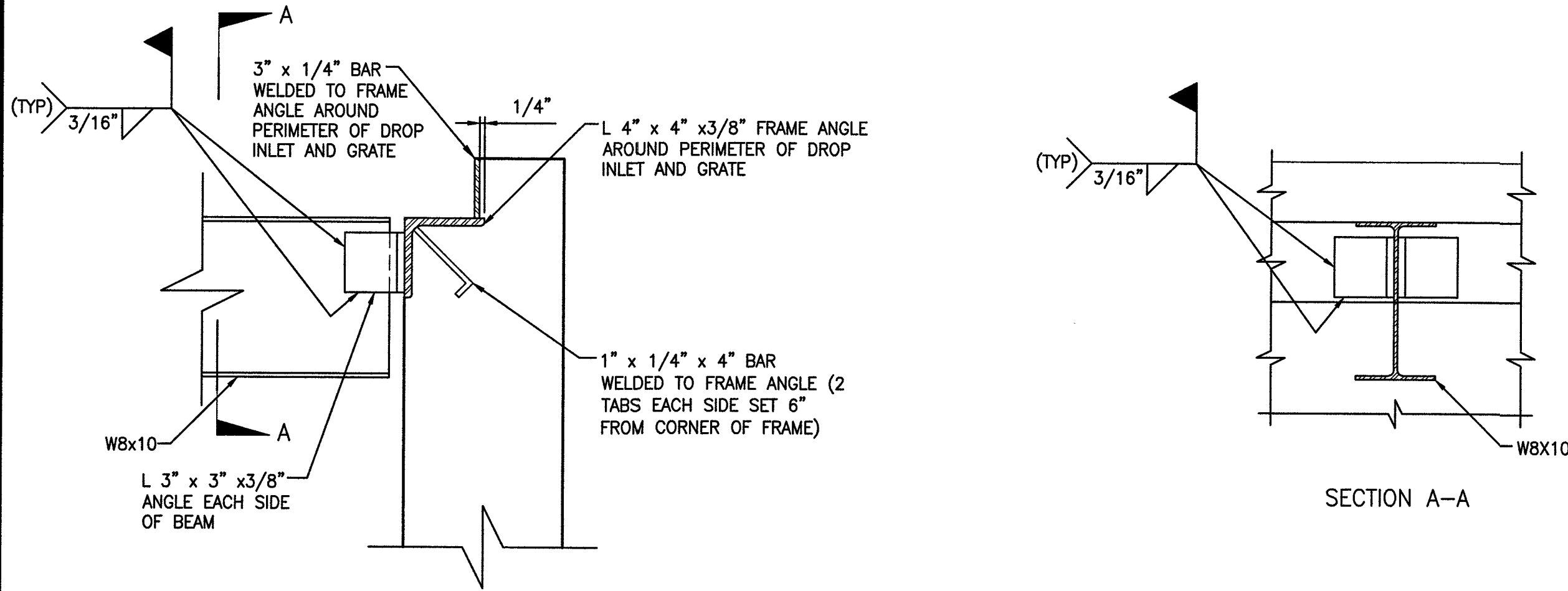
SHEET SEALED
11/14/2017

ENGINEER OF RECORD:
ERIC G. GILES
P.E. No. 14570

SHEET
ST5
51 OF 52
DRAWING NO.
327V294

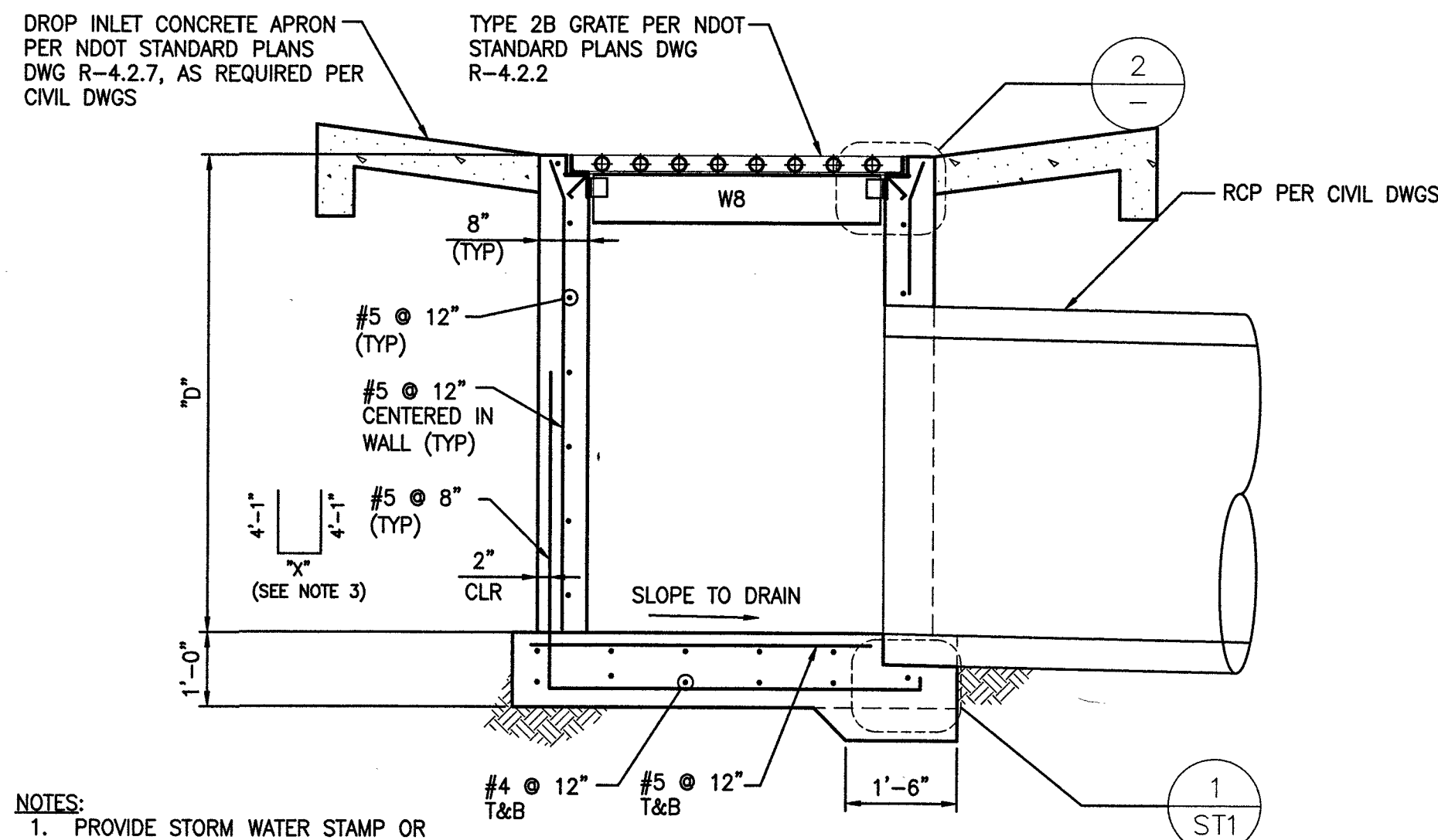
RECORD DRAWINGS

RECORD DRAWINGS COMPLETED: JANUARY 2020
BY GCW, INC.
PROJECT FINAL COMPLETION: OCTOBER 9, 2019
CONTRACTOR: LAS VEGAS PAVING CORP.
CONSTRUCTION MANAGER: DIVERSIFIED CONSULTING SERVICES
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2 DETAIL

SCALE: 2" = 1'-0"



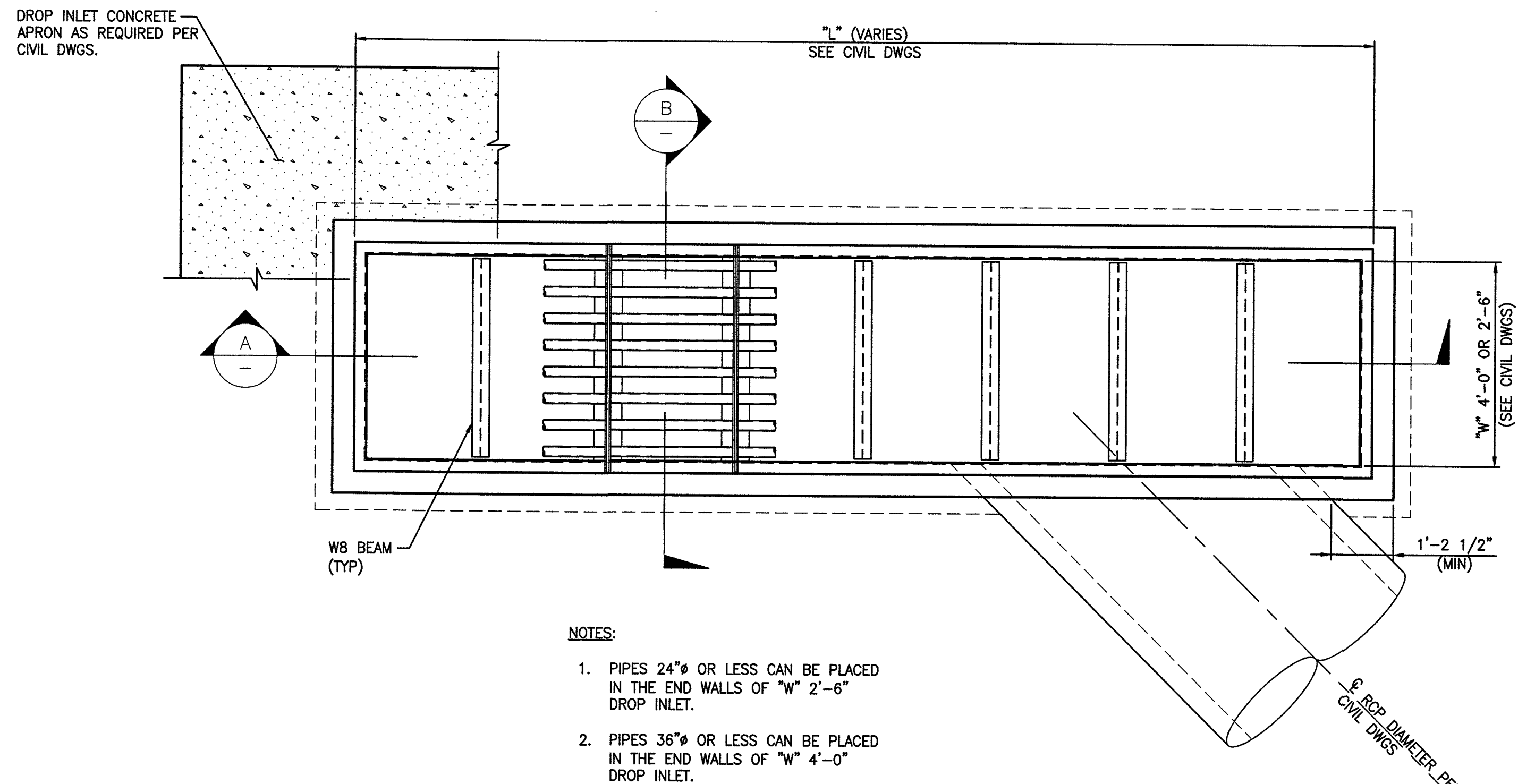
- NOTES:
1. PROVIDE STORM WATER STAMP OR MARKER ON APRON PER UNIFORM STANDARD DRAWING NO. 421
 2. ENSURE W8 BEAM IS CONNECTED TO STRUCTURE BEFORE BACKFILLING
 3. WHEN "W" IS 4'-0" X = 5'-0",
WHEN "W" IS 2'-6" X = 3'-6"

PIPE DIAMETER	MIN "D"
18"	3'-0"
24"	3'-6"
30"	5'-0"
36"	5'-6"
48"	6'-6"

MAX "H" = 11'-0"

B SECTION

SCALE: 1/2" = 1'-0"

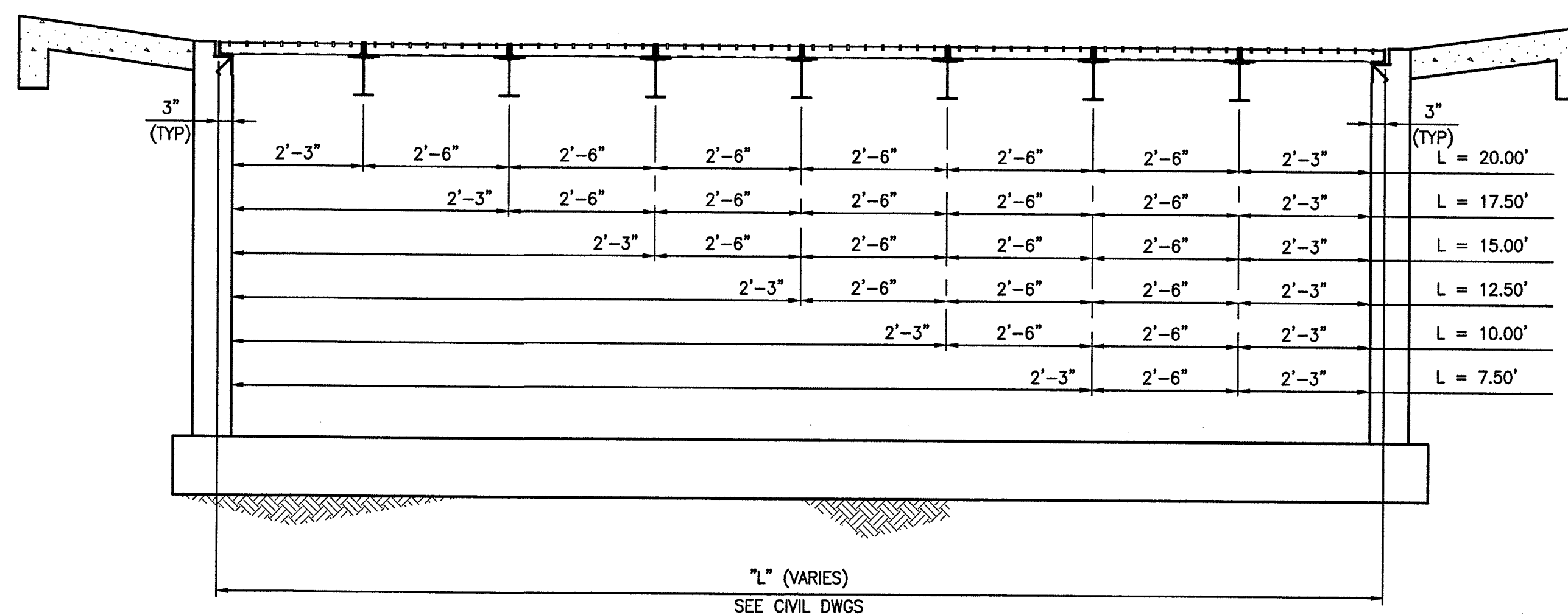


NOTES:

1. PIPES 24" OR LESS CAN BE PLACED IN THE END WALLS OF "W" 2'-6" DROP INLET.
2. PIPES 36" OR LESS CAN BE PLACED IN THE END WALLS OF "W" 4'-0" DROP INLET.

1 PLAN - SPECIAL DROP INLET

SCALE: 1/2" = 1'-0"



A SECTION

SCALE: 1/2" = 1'-0"

NORTH

PREPARED FOR
CITY OF LAS VEGAS

BID# 17-68891
DESIGNED BY: EGG
DATE: 11/14/17
DRAWN BY: EGG
CHECKED BY: DAT

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

GCW
ENGINEERS & SURVEYORS

TITLE
GOWAN NORTH - EL CAPITAN BRANCH
LONE MOUNTAIN ROAD TO ANN ROAD
SHEET

SPECIAL DROP INLET

RECORD
DRAWINGS

SHEET SEALED
11/14/2017

ENGINEER OF RECORD:
ERIC G. GILES
P.E. No. 14570

SHEET

ST6

52 OF 52

DRAWING NO.
327V294

NO.	DATE	REVISIONS