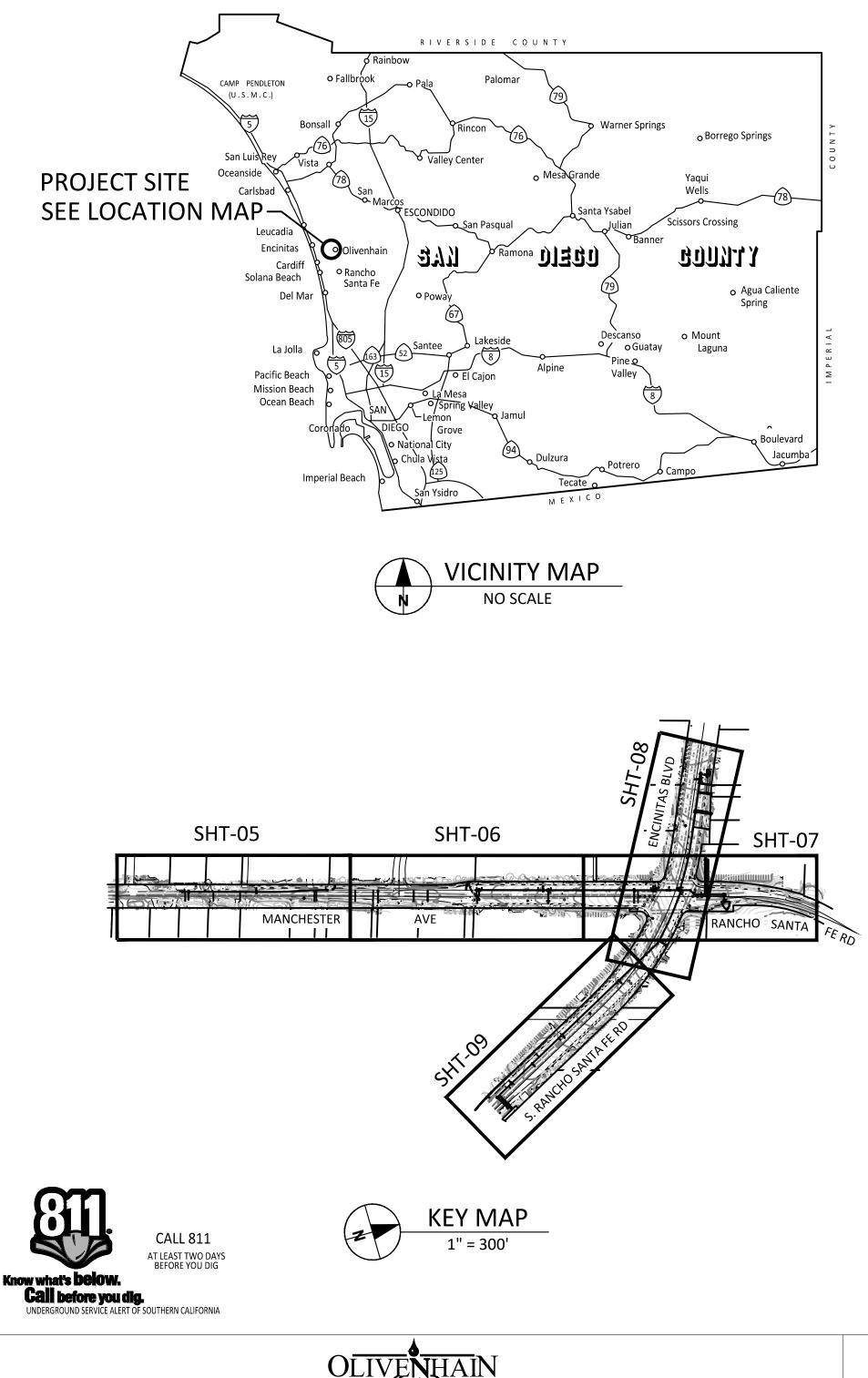
# MANCHESTER AVENUE POTABLE WATER PIPELINE REPLACEMENT PROJECT OMWD WO NUMBER D120049



Municipal Water District

Encinitas, CA 92024 (760)753-6466

1966 Olivenhain Road





**BOARD OF DIRECTORS** 

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	REFERENCE DRAWINGS
DWG 0091-R	ENCINITAS TRACT 88-231
DWG 5515-A	RHO SANTA FE RD & MANCHESTER AVE UNIT "A" PIPELINES
DWG 7422-1	MANCHESTER AVE TPM 00-191
PM 4406	WATER LINE SYSTEM RANCHO PROFESSIONAL PLAZA (MAIN EXT #96)
C001-195-50	MANCHESTER AVE MAIN REPLACEMENT
DWG 414-G	SWC OF ENCINITAS BLVD & MANCHESTER AVE
DWG 7389-G	BADGER SITE
SHEET 1	WATER LINE EXTENSION #44
L8656	WATER LINE EXTENSION #73
SHEET 1	WATER LINE EXTENSION #79
SHEET 1	WATER LINE EXTENSION #98
SHEET 1	WATER LINE EXTENSION #138

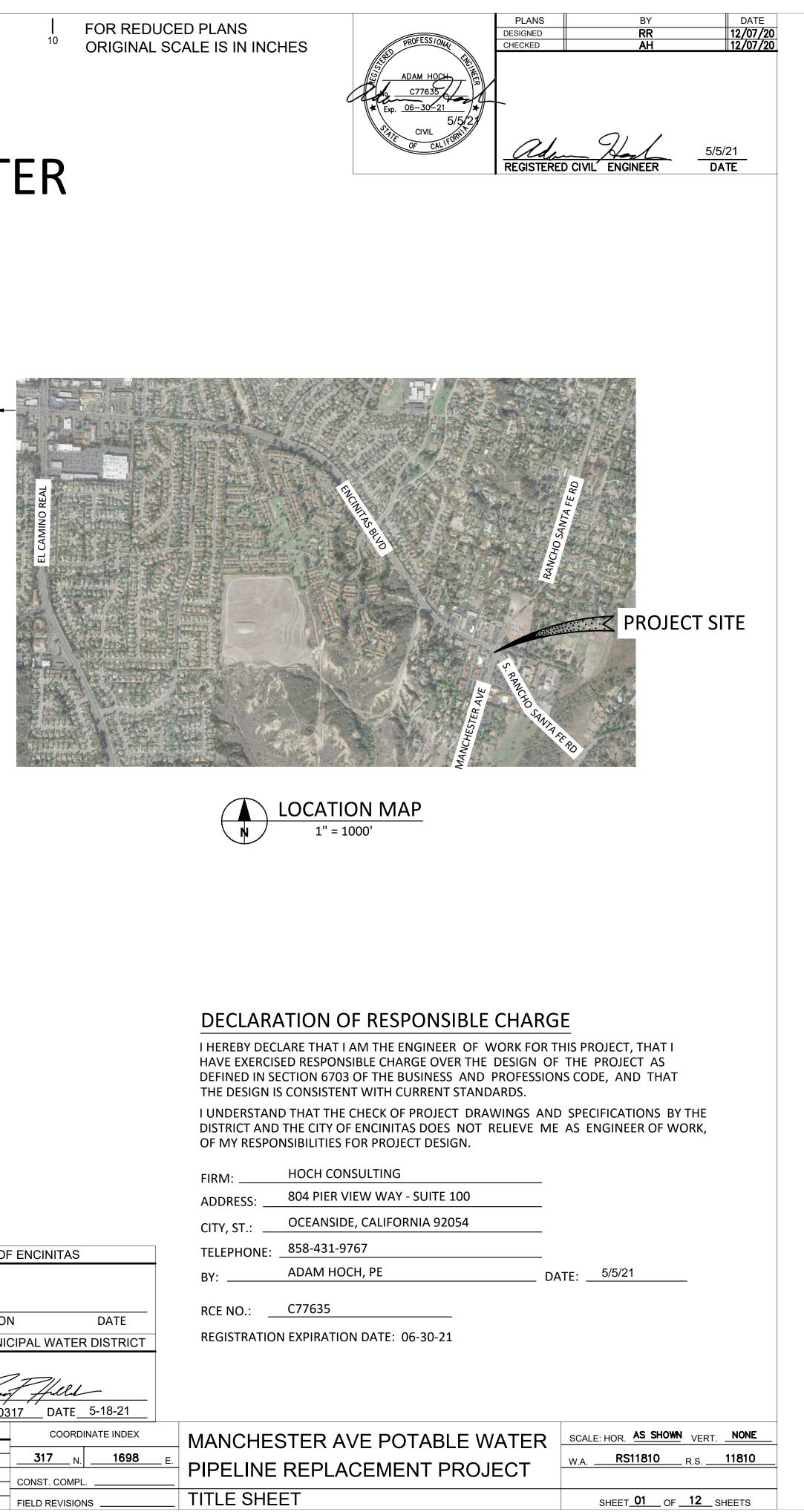
REVISIONS

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	CITY OF ENG	CINITAS	
PLANNING	DIVISION		DATE
OLIVENHAI		L WATEF	RDISTRICT
	T	Zur	
RCE NO.	C60317	DATE	5-18-21

HOCH CONSULTING 804 PIER VIEW WAY - SUITE 100 OCEANSIDE, CA 92054 www.hochconsulting.com

APPROVED DATE COORDINATE INDEX CONST. COMPL FIELD REVISIONS



### WORK TO BE DONE

THE WORK INCLUDES BUT NOT NECESSARILY LIMITED TO THE FOLLOWING: THE CONSTRUCTION OF APPROX 2,000 LF OF NEW 12" PVC, 20 LF OF NEW 10" PVC, 1,050 LF OF NEW 8" PVC, AND 320 LF OF NEW 6" PVC WATER PIPELINE; 2,500 LF OF NEW SERVICE LATERAL CONNECTIONS TO 73 EXISTING METERS; 50 LF OF 20" (TRENCHLESS) STEEL CASING; THE INSTALLATION OF 10 - 12" GATE VALVES, 1 - 10" GATE VALVE, 5 - 8" GATE VALVES, 13 - 6" GATE VALVES, 1-12" OCCLUDE VALVE, STANDARD WATER APPURTENANCES; 3700 LF OF EXISTING WATER PIPELINE ABANDONMENT; DEWATERING OF TRENCH EXCAVATIONS; AND ALL INCIDENTAL WORK AS SHOWN OR OTHERWISE REQUIRED IN THE CONTRACT DOCUMENTS.

### SPECIFICATIONS AND DRAWINGS

IN ORDER OF PRECEDENCE:

- 1. CONTRACT DRAWINGS
- 2. CONTRACT SPECIFICATIONS
- 3. OLIVENHAIN MUNICIPAL WATER DISTRICT STANDARD SPECIFICATIONS AND DRAWINGS FOR THE CONSTRUCTION OF WATER MAINS AND FACILITIES (LATEST EDITION). REVISIONS THERETO, AS CONTAINED IN THESE PROJECT SPECIFIC DRAWINGS AND SPECIFICATIONS, SHALL TAKE PRECEDENCE OVER THE STANDARD SPECIFICATIONS AND DRAWINGS.
- STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (LATEST EDITION).
- 5. SAN DIEGO COUNTY HYDRAULIC DESIGN MANUAL (LATEST EDITION).
- 6. SAN DIEGO REGIONAL STANDARD DRAWINGS (LATEST EDITION).

# GENERAL NOTES

- 1. THE CONTRACTOR SHALL DESIGN, CONSTRUCT, AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING, AND SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL LOCAL, STATE, AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS, AND REGULATIONS. THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND WILL NOT BE LIMITED TO NORMAL WORKING HOURS.
- 2. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES REQUIRED TO PROTECT ADJACENT PROPERTIES AND IMPROVEMENTS DURING ALL PROJECT OPERATIONS. DAMAGED OR DESTROYED ITEMS SHALL BE REPAIRED OR REPLACED TO THE CONDITION EXISTING PRIOR TO WORK BY THE CONTRACTOR AT NO COST TO THE DISTRICT.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY MONUMENTATION AND/OR BENCHMARKS WHICH WILL BE DISTURBED OR DESTROYED BY CONSTRUCTION. SUCH POINTS SHALL BE REFERENCED AND REPLACED WITH APPROPRIATE MONUMENTATION BY A LICENSED LAND SURVEYOR OR A REGISTERED CIVIL ENGINEER AUTHORIZED TO PRACTICE LAND SURVEYING. A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FILED BY THE LICENSED LAND SURVEYOR OR REGISTERED CIVIL ENGINEER AS REQUIRED BY THE LAND SURVEYOR'S ACT. THE CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTS THAT ARE LOCATED WITHIN 10 FEET OF THE CENTERLINE OF CONSTRUCTION BY COVERING THE MONUMENTS WITH 1-INCH THICK STEEL PLATE DURING EXCAVATION AND BACKFILL OPERATIONS OR SHALL EMPLOY ALTERNATIVE PROTECTION MEASURES NECESSARY TO AVOID DISTURBANCE OR DAMAGE TO THE MONUMENTS. ALTERNATIVE PROTECTION MEASURES SHALL BE SUBMITTED FOR DISTRICT REVIEW AND APPROVAL IN ACCORDANCE WITH SECTION 01300.
- THESE DOCUMENTS HAVE BEEN PREPARED FOR A SPECIFIC PROJECT AND SHALL NEITHER BE ALTERED NOR 4. REUSED FOR ANY OTHER PURPOSE. ALSO, THESE DOCUMENTS DO NOT REPRESENT AS-BUILT CONDITIONS. IF THESE DOCUMENTS ARE ALTERED INTENTIONALLY OR UNINTENTIONALLY, OR REUSED WITHOUT THE DESIGN ENGINEER'S WRITTEN APPROVAL, IT WILL BE AT THE SOLE RISK AND RESPONSIBILITY OF THE USER. THE ACT OF ALTERING OR REUSING IS CONSTRUED AS INDEMNIFYING AND HOLDING THE DESIGN ENGINEERING FIRM AND ITS EMPLOYEES AND SUBCONSULTANTS HARMLESS FROM ALL CLAIMS, DAMAGES, AND EXPENSES, INCLUDING ATTORNEY FEES, ARISING OUT OF SUCH ACT.
- 5. THE CONTRACTOR SHALL FURNISH TO THE ENGINEER OF WORK AS-BUILT PLANS FOR ALL NEW IMPROVEMENTS SHOWN ON THESE PLANS. ITEMS INCLUDE, BUT ARE NOT LIMITED TO, RECORDING FINAL FINISHED GRADE ELEVATION, CONTOURS, AND FINAL SLOPES.
- 6. IF REQUIRED TO COMPLETE WORK, FINISH GRADE OF NEW CONCRETE PAVING SHALL CONFORM TO EXISTING SITE GRADES OR AS SHOWN ON THESE DRAWINGS AS DIRECTED BY THE ENGINEER. STRAIGHT GRADES SHALL BE MAINTAINED BETWEEN FINISH ELEVATIONS AS SHOWN.
- 7. ALL SURPLUS SEDIMENT, EXCAVATED SOIL, AND DEBRIS SHALL BE LEGALLY DISPOSED OFF SITE. ALL COSTS FOR TRANSPORTATION AND DISPOSAL SHALL BE INCLUDED IN THEIR APPURTENANT ITEMS OF WORK. ESTIMATED QUANTITIES FOR EARTHWORK AND IMPORTED MATERIALS ARE APPROXIMATE AND CONTRACTOR SHALL DEVELOP HIS/HER OWN ESTIMATES FOR BIDDING PURPOSES.
- THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE DISTRICT AND HOCH CONSULTING, ITS 8. EMPLOYEES, OFFICERS, AGENTS, OR SUBCONSULTANTS HARMLESS AGAINST ANY AND ALL CLAIMS BY ANY PARTIES ARISING FROM, OR RELATED TO, ANY AND ALL DAMAGES, INCLUDING LEGAL COSTS AND ATTORNEY'S FEES, RESULTING FROM INTERFERENCE WITH, INTERRUPTION OF, DAMAGE TO, OR ANY AND AL INJURIES WHICH RESULT FROM DAMAGE CAUSED TO SUBSURFACE INSTALLATION, WHICH IS UNFORESEEN AND DESPITE ENGINEER'S EFFORT DURING THE DESIGN PROCESS WAS NOT LOCATED. EXCEPTING ONLY THE GROSS NEGLIGENCE OR WILLFUL MISCONDUCT OF THE ENGINEER IN PROVIDING ITS SERVICES.
- 9. NO REVISIONS WILL BE MADE TO THESE PLANS WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER, NOTED WITHIN THE REVISION BLOCK, ON THE APPROPRIATE SHEET OF THE PLANS AND TITLE SHEET.
- 10. CONTRACTOR SHALL ADJUST EXISTING WATER SERVICES TO ACCOMMODATE MAINLINE CONSTRUCTION.

# GENERAL NOTE

- 11. CONTRACTOR SHALL DESIGN, CON SOLELY RESPONSIBLE FOR CONFOR LAWS AND REGULATIONS.
- 12. THE CONTRACTOR SHALL CONFOR ENGINEER THE DESIGN OF SHORIN FROM THE HAZARD OF CAVING GF THE PIPE INSTALLATION THEREIN. DEPTH AND APPROVED BY THE CIT VARIES FROM THE SHORING SYSTE CALIFORNIA ADMINISTRATIVE COL CONTRACTORS EXPENSE. A COPY PRIOR TO EXCAVATION.
- 13. THE EXISTENCE AND LOCATION OF WERE OBTAINED BY A SEARCH OF OTHER UTILITY FACILITIES OR STRU PLANS. THE CONTRACTOR IS REQU SHOWN ON THE PLANS AND ANY
- 14. THE CONTRACTOR SHALL VERIFY T WITHIN THE PROJECT SITE SUFFICI CONSTRUCTION PLANS IF IT IS FOU
- 15. THE CONTRACTOR SHALL NOTIFY PRIOR TO STARTING CONSTRUCTION REPRESENTATIVE.

OLIVENHAIN MUNICIPAL WATE UNDERGROUND SERVICE ALER SAN DIEGO GAS AND ELECTRIC SOUTHERN CALIFORNIA GAS TIME WARNER/CHARTER COM COX CABLE CROWN CASTLE

CITY OF ENCINITAS (PUBLIC WC SAN DIEGUITO WATER DISTRIC CARDIFF SANITATION DISTRICT SAN ELIJO JOINT POWERS AUTH

- 16. ITEMS THAT ARE NOT IDENTIFIED THIS INCLUDES, BUT NOT LIMITED STRUCTURES, FENCES, IRRIGATION
- 17. ACCESS FOR FIRE AND OTHER EME DURING CONSTRUCTION.
- 18. IF ANY ARCHAEOLOGICAL RESOUR OPERATIONS SHALL CEASE IMMED NOT RESTART UNTIL THE CONTRAC
- 19. ALL OFF-SITE HAUL ROUTES SHALL FULL WORKING DAYS PRIOR TO BE OR DAMAGE OCCURRING ALONG
- 20. UNLESS OTHERWISE INDICATED, SI GUIDELINE FOR THE COLLECTION A INCLUDES SURVEYING SURFACE UT SURVEYED FEATURES.
- 21. SECTION 4216/4217 OF THE GOVE **BEFORE A "PERMIT TO EXCAVATE"** TOLL FREE 811 TWO FULL WORKIN

### BASIS OF COORDI NAD 83 (19

PT. # 1029

WELL MONUMENT IN CENTERI ENCINITAS BLVD, 300' EAST OF WITH WILLOW SPRINGS AT BEG LEFT TURN POCKET. N 1960165.668' E 6257029.935' ELEV. 218.103' (NAVD 88) **RECORD OF SURVEY 18416** 

NOTE:

PROPERTY LINES, RIGHT-OF-WA ESTABLISHED FROM AVAILABLE WERE REVIEWED FOR THIS PRO PROJECT COORDINATE SYSTEM TAKEN FROM THIS DRAWING F PROPERTY LINES, RIGHT-OF-W/ FOR A GRAPHIC REPRESENTATI



CALL 811 AT LEAST TWO DAYS BEFORE YOU DIG

Call before you dig. UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA





ER DISTRICT T	(760)753-6466 (800)422-4133 (800)411-7343
MUNICATIONS	(855)411-0725
	(800)234-3993
	(800)788-7011
ORKS)	(760)633-2840
T	(760)633-2650
-	(760)753-5018
HORITY	(760)802-0104

						andFFSS/a:		BY DAT
						ADAM HOCH	CHECKED	RR 12/07 AH 12/07
ES (CONT)		GENEF	RAL POTABLE W	ATER SYSTEM NO	DTES C	C77635 ★ Exp. 06-31-21		EX INDEX CONTOUR
CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, I FORMING TO ALL LOCAL, STATE AND FEDERAL SAF	FETY AND HEALTH STANDARDS,	THE MOST RE DRAWINGS FO	CENT EDITION OF THE OLIVENHAI DR THE CONSTRUCTION OF WATE APPROVAL DATE ON THESE PLAN	IN MUNICIPAL WATER DISTRICT (DIST R MAINS AND FACILITIES, INCLUDING	ILS AND MATERIALS AS SPECIFIED IN RICT) STANDARD SPECIFICATIONS AND ALL AMENDMENTS ADOPTED PRIOR TO OF THE STANDARD SPECIFICATIONS ON		 ₩M	EX INTERMEDIATE CONTOUR     EX RIGHT-OF-WAY     EX WATER METER
RING, BRACING SLOPE OR OTHER PROVISIONS TO G GROUND DURING THE EXCAVATION OF SUCH TRE IN. THIS PLAN MUST BE PREPARED FOR ALL TRENC	BE MADE OF WORKER PROTECTION ENCH OR TRENCHES OR DURING CHES FIVE FEET (5') OR MORE IN	2. THE SUBMISS	ION AND REVIEW OF ALL SUBMIT	TALS (SHOP DRAWINGS) AS REQUIRE CONSTRUCTION MEETING WITH THE	D BY THE STANDARD SPECIFICATIONS DISTRICT'S INSPECTOR.		⊳o⊲ ⊗wv	EX FIRE HYDRANT
CITY ENGINEER AND/OR CONCERNED AGENCY PR STEM STANDARDS ESTABLISHED BY THE CONSTRUCT CODE, THE PLAN SHALL BE PREPARED BY A REGIST PY OF THE OSHA EXCAVATION PERMIT MUST BE SU	JCTION SAFETY ORDERS, TITLE 8 ERED ENGINEER AT THE	SHUTDOWNS	,	BJECT TO APPROVAL BY THE DISTRICT	Y. THE TIME AND DURATION OF ANY . DISTRICT SHALL BE NOTIFIED TWO		● BO ■ MAR	EX BLOWOFF     EX MANUAL AIR RELEASE     EX BACK FLOW PREVENTER
I OF UTILITY STRUCTURES AND FACILITIES SHOWN OF THE AVAILABLE RECORDS. ATTENTION IS CALLE				ICT ALL ARRANGEMENTS FOR HIGH-L DULED ON A MONDAY OR FRIDAY.	INING TEMPORARY SERVICES PRIOR TO		BFP O <sub>pp</sub>	EX POWER POLE     EX STREET LIGHT
TRUCTURES NOT SHOWN OR IN A LOCATION DIFFI EQUIRED TO TAKE DUE PRECAUTIONARY MEASURE NY OTHER EXISTING FACILITIES OR STRUCTURES NO	ERENT FROM THAT SHOWN ON THE ES TO PROTECT THE UTILITIES			RENCH WORK WITH CAL/OSHA. A COR JBMITTED TO THE DISTRICT PRIOR TO			PB E	EX PULLBOX     EX ELECTRIC CONTROL PANEL
THE LOCATION OF ALL EXISTING FACILITIES (ABC FICIENTLY AHEAD OF THE CONSTRUCTION TO PER FOUND THAT THE ACTUAL LOCATIONS ARE IN COI	OVEGROUND AND UNDERGROUND) MIT THE REVISIONS OF THE			DIRECTION OF DISTRICT'S INSPECTOR S PRIOR TO THE BEGINNING OF WOR	. CONTRACTOR SHALL NOTIFY THE K TO ARRANGE FOR INSPECTION OF THE		T ⊗GV (S)	EX TELEPHONE RISER     EX GAS VALVE     EX SEWER MANHOLE
FY AFFECTED UTILITY COMPANIES (SEE BELOW) AT CTION NEAR THEIR FACILITIES AND SHALL COORDII	LEAST TWO FULL WORKING DAYS			ROJECT CONSTRUCTION, I.E., LINE CR FIED BEFORE ANY CONSTRUCTION BE			SCO SD	EX SEWER CLEANOUT     EX STORM DRAIN MANHOLE
	0)753-6466 0)422-4133		D IDENTIFICATION TAPE ABOVE A		S THE APPROPRIATE BURIED UTILITY WATER LATERALS LOCATED IN PUBLIC			EX TREE EX SIGN
RIC (80) S	0)411-7343 5)411-0725		ATIONS AND GRADES ARE NOT SH ERLINE OF FINISH GRADE OF STRE	OWN ON THE WATER MAIN PROFILE, ET.	TOP OF PIPE PROFILE IS 48-INCHES		B-1 🕈	GEOTECHNICAL BORING     SURVEY MONUMENT     DOTUGUE LOCATION
(80) WORKS) (76)	0)234-3993 0)788-7011 0)633-2840		•	.) SHALL BE MADE BY USE OF JOINT CO DINT). NO BENDING (CURVING) OF PIP	DUPLINGS WITH 4 DEGREES MAXIMUM E SHALL BE PERMITTED.		09 🔍	POTHOLE LOCATION REVIATIONS
ICT (76)	0)633-2650 0)753-5018 0)802-0104 E PROTECTED-IN-PLACE.	MAIN PROFIL OTHERWISE A	E. PLACE MANUAL AIR RELEASES A PPROVED BY DISTRICTS REPRESEN	ALL HIGH POINTS AND BLOW-OFFS A AND BLOW-OFFS WITHIN METER BOX NTATIVE. FIRE HYDRANTS MAY BE US GH OR LOW POINTS, AS APPROVED B	AND LOCATE BEHIND CURB UNLESS ED IN LIEU OF A MANUAL AIR RELEASE		@ ACP APPROX ASSY	AT ASBESTOS CEMENT PIPE APPROXIMATE ASSEMBLY
TED AS TO BE REMOVED AND DISPOSED SHALL BE TED TO, EXISTING SIDEWALK, CURB AND GUTTER, ( ION AND LANDSCAPING.		12. METER BOXES CONSENT.	SHALL NOT BE PLACED WITHIN D	RIVEWAYS OR SIDEWALKS WITHOUT	THE DISTRICTS PRIOR WRITTEN		BC BO CL	BEGINNING OF CURVATURE BLOW-OFF CENTERLINE, CLASS
MERGENCY VEHICLES SHALL BE MAINTAINED TO T				PLE RESIDENTIAL COMPLEXES, COMM ON DEVICE ON CUSTOMER'S SIDE OF N	ERCIAL OR INDUSTRIAL DEVELOPMENT VATER METER.		CONC CML&C CP CPLG	CONCRETE CEMENT MORTAR LINED & COATED CATHODIC PROTECTION COUPLING
URCES ARE DISCOVERED WITHIN ANY WORK ZONE IEDIATELY, AND THE CONTRACTOR SHALL NOTIFY RACTOR HAS RECEIVED WRITTEN AUTHORITY FRO	THE DISTRICT. OPERATIONS SHALL		SHALL TIE OFF ALL VALVE LOCATI LATION OF VALVES.	IONS AND PROVIDE WRITTEN DIMEN	SIONS TO INSPECTOR IMMEDIATELY		DG DRWY DWG	DECOMPOSED GRANITE DRIVEWAY DRAWING
ALL BE SUBMITTED BY THE CONTRACTOR TO THE C BEGINNING OF WORK. THE CONTRACTOR SHALL E G THE HAUL ROUTE OR ADJACENT STREETS AS A F	BE RESPONSIBLE FOR ANY DEBRIS	16. FIRE HYDRAN	TS, AS APPROVED BY THE APPROP	ERSECTIONS SHALL BE LOCATED AT T RIATE FIRE DISTRICT AND MEETING T ATIONS SPECIFIED BY THE FIRE DISTRI	HE DISTRICTS STANDARD		E EC ECC ELEV	EASTING END OF CURVATURE ECCENTRIC ELEVATION
, SUBSURFACE UTILITY DATA IS DEPICTED TO LEVE N AND DEPICTION OF EXISTING SUBSURFACE UTIL UTILITY FEATURES AND CORRELATING APPLICABL	ITY DATA" CI/ASCE 38-02. LEVEL C	17. ALL DESIGN C		SHALL BE APPROVED BY THE DISTRICT	REPRESENTATIVE IN WRITING PRIOR		E'LY EX F	EASTERLY EXISTING FLANGE
OVERNMENT CODE REQUIRES THAT A DIG ALERT ID	DENTIFICATION NUMBER BE ISSUED	SPECIFICATIO		ED IN ACCORDANCE WITH THE PROCE JSED AS THE DESIGNATED WORKING			FC FL FM FO	FACE OF CURB FLOWLINE FORCE MAIN FIBER OPTIC
E" WILL BE VALID. FOR DIG ALERT ID NUMBER CA KING DAYS BEFORE YOU DIG.	LL UNDERGROUND SERVICE ALERT	19. PIPELINES AN SPECIFICATIO	D APPURTENANCES SHALL BE DISI	ION TO EXISTING SYSTEM FACILITIES.	TION 15041 OF THE OMWD STANDARD BACTERIOLOGIC QUALITY TEST		FS GV HDPE HP	FINISH SURFACE GATE VALVE HIGH DENSITY POLYETHYLENE HIGH PRESSURE
DINATES & ELEVATIONS		20. CONTRACT RE	CORD DRAWINGS MUST BE SUBN		OF WORK. THE PLANS MUST PROVIDE		INT IRR LF	INTERSECTION IRREGULAR LINEAR FEET
(1991.35 EPOCH) PT. # 1036 ERLINE OF 2.5" CITY OF ENCINITAS BR/		<ul> <li>21. IN ACCORDAN GUARANTEE / CONTRACTOR</li> <li>22. DISPLACED IN PERIOD FROM</li> </ul>	ICE WITH THE GENERAL PROVISIO ALL WORK FOR A PERIOD OF TWO SHALL REPAIR OR REPLACE ANY O SO DOING THAT MAY PROVE DEF I THE DATE OF ACCEPTANCE WITH	NS AND SUPPLEMENTAL GENERAL PF (2) YEARS AFTER THE DATE OF ACCEF OR ALL SUCH WORK, TOGETHER WITH ECTIVE IN WORKMANSHIP AND/OR	OVISIONS, THE CONTRACTOR SHALL PTANCE FOR THE PROJECT. I ANY OTHER WORK WHICH MAY BE		LN LT MAR MAX MH MIN MJ	LANE LEFT MANUAL AIR RELEASE MAXIMUM MANHOLE MINIMUM MECHANICAL JOINT
OF INTERSECTION THE NORTHEAST CORNER OF BEGINNING OF INLET ON THE NORTH SIDE SANTA FE RD, 200' WEST OF INTERSECTION WITH LA BAI	OF RANCHO F THE		JSE OR NEGLECT EXCEPTED. DN METERS SHALL BE SERVED WIT	H RECYCLED WATER UNLESS PREVIO	JSLY APPROVED IN WRITING BY THE		MOD N NG	MODIFIED NORTHING NATURAL GROUND
EL MIRLO. N 1957305.454' E 6259823.741'				AX TAPE WRAPPED IN ACCORDANCE	WITH OMWD STANDARD		OMWD PCC PE PED	OLIVENHAIN MUNICIPAL WATER DISTRICT PORTLAND CEMENT CONCRETE PLAIN END PEDESTRIAN
ELEV. 37.309' (NAVD 88) RECORD OF SURVEY 18416 -WAY LINES, AND EASEMENT LINES SHOWN HEREO BLE RECORD MAPS AND ASSESSOR'S MAPS. NO TH PROJECT. SELECT RECORD MONUMENTS WERE THE TEM TO ORIENTATE RECORD MAPS. BEARINGS AND IG REPRESENT A BEST FIT COMPILATION OF RECOR -WAY LINES, AND EASEMENT LINES ARE INTENDED TATION ONLY.	ON WERE TLE REPORTS ED INTO THE D DISTANCES RD DATA. THESE	SOLELY RESPO HEALTH AND THE CONTRAC INSTALLATION PREPARED FO WASTE DIVISI MATERIALS. T	ONSIBLE FOR AND SHALL TAKE ALL SAFETY OF THE WORK FORCE AND CTOR SHALL COMPLY WITH ALL AF AND DISPOSAL OF ASBESTOS. AS R TRANSPORT FOLLOWING CRITE ON, AND DELIVERED TO A LANDFI HE COMPLETED GENERATOR COP	PPLICABLE REGULATIONS FOR THE HAS SESTOS CEMENT PIPE TO BE DISPOSE RIA OF COUNTY OF SAN DIEGO DEPAI ILL PERMITTED FOR DISPOSAL OF NOI PY (YELLOW) MANIFEST SHALL BE RET	OTECTING AGAINST THREATS TO ONSTRUCTION INVOLVING ASBESTOS. NDLING, CUTTING, SHAPING, D SHALL BE PROPERLY MANIFESTED, RTMENT OF PUBLIC WORKS, SOLID N-FRIABLE ASBESTOS CONTAINING		PH PRC PVC RCB RCP REQ RFCA RPBFA	POTHOLE POINT OF REVERSING CURVATURE POLYVINYL CHLORIDE REINFORCED CONCRETE BOX REINFORCED CONCRETE PIPE REQUIRED RESTRAINED FLANGE COUPLING ADAPTER REDUCED PRESSURE BACKFLOW PREVENTE ASSY RIGHT OF WAY
		11, UNLESS O		RICT. CONTRACTOR SHALL FIELD VERI	ATER SERVICES PER DETAIL D ON SHEET FY EXISTING SERVICE CONNECTIONS		RT SD SDCO SDMH	RIGHT OF WAY RIGHT STORM DRAIN STORM DRAIN CLEANOUT STORM DRAIN MANHOLE
		ISOLATION VA DEWATERING	LVES WHICH HAVE A HISTORY OF ACTIVITIES IN ACCORDANCE WIT	ONTRACTOR SHALL EXPECT NUISANC LEAKS AND DO NOT SEAL PROPERLY. H SECTION 01305 AND SECTION 0214 ACCORDANCE WITH SECTION 01305.	THE CONTRACTOR SHALL PREPARE FOR		SDSD SDWD STD STL	SAN DIEGO STANDARD DRAWING SAN DIEGUITO WATER DISTRICT STANDARD STEEL
		28. ANY AND ALL		NG VALVE BOXES, AND CONCRETE CO	LLARS, SHALL BE RAISED TO GRADE		SWR TER TG TOT TYP UNK VCP W/ W'LY WTR	SEWER TERRACE TOP OF GRATE TOTAL TYPICAL UNKNOWN VITRIFIED CLAY PIPE WITH WESTERLY WATER
HOCH CONSULTING	REVISIONS		BY APPROVED DATE		MANCHESTER AV	E POTABLE W	ATER	SCALE: HOR. NONE VERT. NONE
804 PIER VIEW WAY - SUITE 100 OCEANSIDE, CA 92054				<u>317</u> N. <u>1698</u> E.				W.A. <b>RS11810</b> R.S. <b>11810</b>
www.hochconsulting.com				CONST. COMPL      FIELD REVISIONS	NOTES, ABBREVIAT		& MISC	SHEET_02_OF_12_SHEETS

### HORIZONTAL BORING FOR METER SERVICE CONNECTIONS TRAFFIC CONTROL, STAGING AND WORK HOURS NOTES 1. FOR METER SERVICE PIPES 1-INCH OR LARGER IN DIAMETER, THE MAXIMUM BORE HOLE SIZE PERMISSIBLE 1. AT LEAST ONE PERSON SHALL BE ASSIGNED TO FULL TIME MAINTENANCE OF TRAFFIC CONTROL DEVICES ON ALL SHALL BE TWICE THE INTERNAL DIAMETER OF THE SERVICE LINE BEING INSTALLED. FOR METER SERVICE PIPES NIGHT LANE CLOSURES. SMALLER THAN 1-INCH IN DIAMETER, THE MAXIMUM BOREHOLE SIZE SHALL BE (2) INCHES IN DIAMETER. 2. ALL WARNING SIGNS FOR NIGHT LANE CLOSURES SHALL BE ILLUMINATED REFLECTORIZED AS SPECIFIED IN THE SPECIFICATIONS. WATER MAIN SHUTDOWN NOTES 3. ALL ADVANCE WARNING SIGN INSTALLATIONS SHALL BE EQUIPPED WITH FLAGS FOR DAYTIME CLOSURES OF ALL MAJOR AND PRIME ARTERIALS. FLASHING BEACONS SHALL BE USED DURING NIGHT LANE CLOSURES. 1. FOR SHUTDOWNS THAT ARE NECESSARY TO ACCOMPLISH THE WORK, THE CONTRACTOR SHALL MAKE WRITTEN REQUEST TO OMWD AT LEAST THREE (3) CALENDAR WEEKS BEFORE THE SHUTDOWN. REQUESTS SHALL SPECIFY 4. A G20-2 "END ROAD WORK" SIGN SHALL BE PLACED AT THE END OF THE LANE CLOSURE UNLESS THE END OF LOCATION, SIZE OF LINE, DURATION, DATE, AND TIME FOR EACH SHUTDOWN. WITHIN ONE (1) WEEK, THE THE WORK AREA IS OBVIOUS, OR ENDS WITHIN A LARGER PROJECT LIMITS. DISTRICT WILL SCHEDULE SHUTDOWN AND GIVE WRITTEN NOTIFICATION TO THE CONTRACTOR. ANY SCHEDULE REVISIONS REQUESTED BY THE CONTRACTOR MUST BE IN WRITING. OMWD'S REVISED SCHEDULE WILL BE 5. ALL CONES USED FOR NIGHT LANE CLOSURES SHALL BE ILLUMINATED TRAFFIC CONES OR FITTED WITH 13" AVAILABLE WITHIN ONE (1) WEEK. THE DISTRICT DOES NOT GUARANTEE A TOTALLY DRY LINE. THE **REFLECTIVE SLEEVES.** CONTRACTOR SHALL BE PREPARED TO DE-WATER AS NECESSARY TO ACCOMPLISH THE WORK. 6. FLASHING ARROW SIGNS SHALL BE USED PER THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ACCESSIBILITY TO THE VALVE OPERATING NUTS DEVICES (CALIFORNIA MUTCD, LATEST EDITION) SILENT TYPE SHALL BE USED IN RESIDENTIAL AREAS. FOR ALL VALVES WITHIN THE PROJECT BOUNDARIES. FAILURE TO MAINTAIN ACCESSIBILITY TO VALVES SHALL BE CAUSE FOR CANCELING SHUTDOWN, AND THE CONTRACTOR WILL BE REQUIRED TO REQUEST A REVISED 7. THE MAXIMUM SPACING BETWEEN CONES IN A TAPER OR A TANGENT SHALL BE APPROXIMATELY 10 FEET. SCHEDULE. 8. ADDITIONAL ADVANCE FLAGGERS SHALL BE REQUIRED WHEN TRAFFIC QUEUES DEVELOP. FLAGGER STATIONS 3. THE DISTRICT IS INDEMNIFIED FOR ANY AND ALL RESULTANT COSTS INCURRED BY THE CONTRACTOR SUCH AS, FOR WORK AT NIGHT SHALL BE ILLUMINATED AS NOTED IN SECTION 6G.20 OF THE MUTCD. BUT NOT LIMITED TO TRAFFIC CONTROL, DELAYS, LOSS OF INCENTIVES, STANDBY AND PENALTIES IF THE CONTRACTOR DID NOT PROPERLY REQUEST A SHUTDOWN; FAILURE TO MAINTAIN ACCESSIBILITY TO VALVES; 9. PLACE C30 (CA) "LANE CLOSED" SIGN AT 500'-1000' INTERVALS THROUGHOUT EXTENDED WORK AREAS. OR IF THE CONTRACTOR'S SCHEDULED WORK DID NOT PROGRESS TO THE ANTICIPATED SHUTDOWN SCHEDULE 10. ALL REQUIRED SIGNS THAT ARE TO BE LEFT IN PLACE OVER A WEEKEND OR HOLIDAY SHALL BE POST MOUNTED USING SQUARE PERFORATED STEEL TUBING WITH BREAKAWAY BASE PER SDRSD M-45. **EXCAVATION NOTE** 11. CONSTRUCTION AREA TRAFFIC CONTROL DEVICES SHALL MEET THE PROVISIONS OF SECTION 12 OF THE MOST RECENT EDITION OF THE CALTRANS STANDARD SPECIFICATIONS. 1. THE CONTRACTOR SHALL OBTAIN AN EXCAVATION PERMIT FROM THE DIVISION OF INDUSTRIAL SAFETY BEFORE 12. ALL DRIVEWAYS SHALL REMAIN OPEN AND CLEAR OF ANY OBSTRUCTIONS AT ALL TIMES. ANY EXCAVATION AND SHALL PROVIDE PROOF OF OSHA NOTIFICATION AND SHALL ADHERE TO ALL PROVISIONS OF THE STATE CONSTRUCTION SAFETY ORDERS. 13. ALL TRAVEL LANES SHALL BE A MINIMUM OF 12-FEET WIDE. 14. THE CONTRACTOR SHALL REPAIR OR REPLACE ALL EXISTING IMPROVEMENTS WITHIN THE RIGHT-OF-WAY WHICH ARE NOT DESIGNATED FOR REMOVAL WHICH ARE DAMAGED OR REMOVED AS A RESULT OF SIGNING AND STRIPING NOTES OPERATIONS. TRENCH REPAIR SHALL BE IN ACCORDANCE WITH CITY OF ENCINITAS STANDARDS. 15. WORK ON ENCINITAS BLVD, RANCHO SANTA FE RD, S. RANCHO SANTA FE RD, AND MANCHESTER AVE FROM THE 1. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ALL SIGNING AND STRIPING THAT WAS REMOVED OR DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES. INTERSECTION TO 150-FEET SOUTH OF THE RANCHO SANTA FE PLAZA ENTRANCE (APPROX STA 21+00), INCLUDING THE MANCHESTERAVE/ENCINITAS BLVD INTERSECTION, SHALL BE PERFORMED AT NIGHT FROM 8:00PM TO 6:00AM 2. ALL SIGNING, STRIPING AND PAVEMENT MARKINGS SHALL CONFORM TO THE CALIFORNIA MANUAL ON UNIFORM WORK ON THEREMAINING PORTIONS OF MANCHESTER AVE SHALL BE PERFORMED DURING THE DAY FROM 9:00AM TRAFFIC CONTROL DEVICES (LATEST VERSION), THE CALTRANS STANDARD PLANS AND SPECIFICATIONS (LATEST TO 3:30PM VERSION), THESE PLANS AND THE SPECIAL PROVISIONS. 16. PARCEL APN #259-221-57 HAS BEEN IDENTIFIED AS A POTENTIAL STAGING AREA FOR THIS PROJECT. CONTRACTOR TO MAKE THEIR OWN ARRANGEMENTS FOR THIS OR ANY OTHER PRIVATE PROPERTY FOR STAGING, SUBJECT TO 3. ALL SIGNING AND STRIPING IS SUBJECT TO THE APPROVAL OF THE CITY OF ENCINITAS TRAFFIC DEPARTMENT, PRIOR TO APPROVAL BY OMWD AND PER THE SPECIFICATIONS. INSTALLATION. 4. ANY DEVIATION FROM THESE SIGNING AND STRIPING PLANS SHALL BE APPROVED BY THE CITY OF ENCINITAS TRAFFIC GENERAL TRAFFIC SIGNAL NOTES DEPARTMENT TO ANY CHANGE IN THE FIELD. 5. ALL STRIPING SHALL BE REFLECTIVE PER CALTRANS SPECIFICATIONS. STRIPING SHALL BE REPAINTED TWO WEEKS 1. DAMAGE TO TRAFFIC SIGNAL CONDUIT OR WIRING SHALL BE REPAIRED IMMEDIATELY AT NO COST TO THE CITY AFTER INITIAL PAINTING. OR THE DISTRICT. 6. ALL SIGNAGE SHALL BE REFLECTIVE PER ASTM DESIGNATION D4956 AND SHALL USE TYPE IV PRISMATIC REFLECTIVE 2. THE TRAFFIC LOOPS SHALL BE REPLACED WITHIN 3 DAYS OF COMPLETING WORK IN THE AREA TO CURRENT SHEETING (HIGH INTENSITY PRISMATIC OR EQUAL) UNLESS OTHERWISE SPECIFIED. R1-1 "STOP", R1-2 "YIELD", R2-1 "SPEED CALTRANS STANDARD TO DETECT BICYCLES PER TRAFFIC OPERATIONS POLICY DIRECTIVE 09-06 AT NO COST TO LIMIT" AND STREET NAME SIGNS SHALL USE TYPE IX PRISMATIC CUBE-CORNER REFLECTIVE SHEETING (DIAMOND GRADE THE CITY OR THE DISTRICT. VIP OR EQUAL). PRIOR TO FINAL ACCEPTANCE OF STREET IMPROVEMENTS, ALL STREET STRIPING AND MARKINGS WITHIN A 500' 7. PERIMETER OF THE CONSTRUCTION PROJECT WILL BE RESTORED TO A "LIKE NEW" CONDITION, IN A MANNER MEETING **CITY OF ENCINITAS - CITY TREES** THE APPROVAL OF THE CITY INSPECTOR. TREES WITH TRUNKS GREATER THAN 3 INCHES IN DIAMETER SHALL BE HANDLED BY THE CONTACTOR ACCORDING 8. EXACT LOCATION OF STRIPING AND STOP LIMIT LINES SHALL BE APPROVED BY THE CITY OF ENCINITAS TRAFFIC TO THE FOLLOWING REQUIREMENTS: DEPARTMENT PRIOR TO INSTALLATION.

- 9. CONTRACTOR SHALL REMOVE ALL CONFLICTING PAINTED LINES, MARKINGS AND PAVEMENT. ALL PAVEMENT LEGENDS SHALL BE THE LATEST VERSION OF THE CALTRANS STENCILS.
- 10. ALL CROSSWALKS, LIMIT LINES, STOP BARS, PAVEMENT ARROWS AND PAVEMENT LEGENDS SHALL BE THERMOPLASTIC UNLESS OTHERWISE SPECIFIED. PREFORMED THERMOPLASTIC ARROWS AND LEGENDS SHALL NOT BE ACCEPTABLE.
- 11. SHOULD THERE BE ANY DAMAGE TO STOP BAR STRIPING, THE ENTIRE STOP BAR SHALL BE REMOVED AND NEW THERMO PLASTIC STOP BAR BE INSTALLED. ANY STRIPING TO BE REMOVED SHALL BE WET SANDBLASTED UNLESS APPROVED BY THE CITY OF ENCINITAS TRAFFIC DEPARTMENT.

# **MONUMENTATION / SURVEY NOTES**

THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS AND/OR VERTICAL CONTROL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LICENSED LAND SURVEYOR OR LICENSED CIVIL ENGINEER AUTHORIZED TO PRACTICE LAND SURVEYING IN THE STATE OF CALIFORNIA SHALL FIELD LOCATE, REFERENCE, AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS PRIOR ANY EARTHWORK, DEMOLITION OR SURFACE IMPROVEMENTS. IF DESTROYED, A LICENSED LAND SURVEYOR SHALL REPLACE SUCH MONUMENT(S) WITH APPROPRIATE MONUMENTS. WHEN SETTING SURVEY MONUMENTS USED FOR RE-ESTABLISHMENT OF THE DISTURBED CONTROLLING SURVEY MONUMENTS AS REQUIRED BY SECTIONS 6730.2 AND 8771 OF THE BUSINESS AND PROFESSIONS CODE OF THE STATE OF CALIFORNIA. A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FILLED WITH THE COUNTY SURVEYOR. IF ANY VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE CITY OF ENCINITAS FIELD SURVEY SECTION SHALL BE NOTIFIED IN WRITING AT LEAST 7 DAYS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF REPLACING AND VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.



CALL 811 AT LEAST TWO DAYS Before you dig

UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA



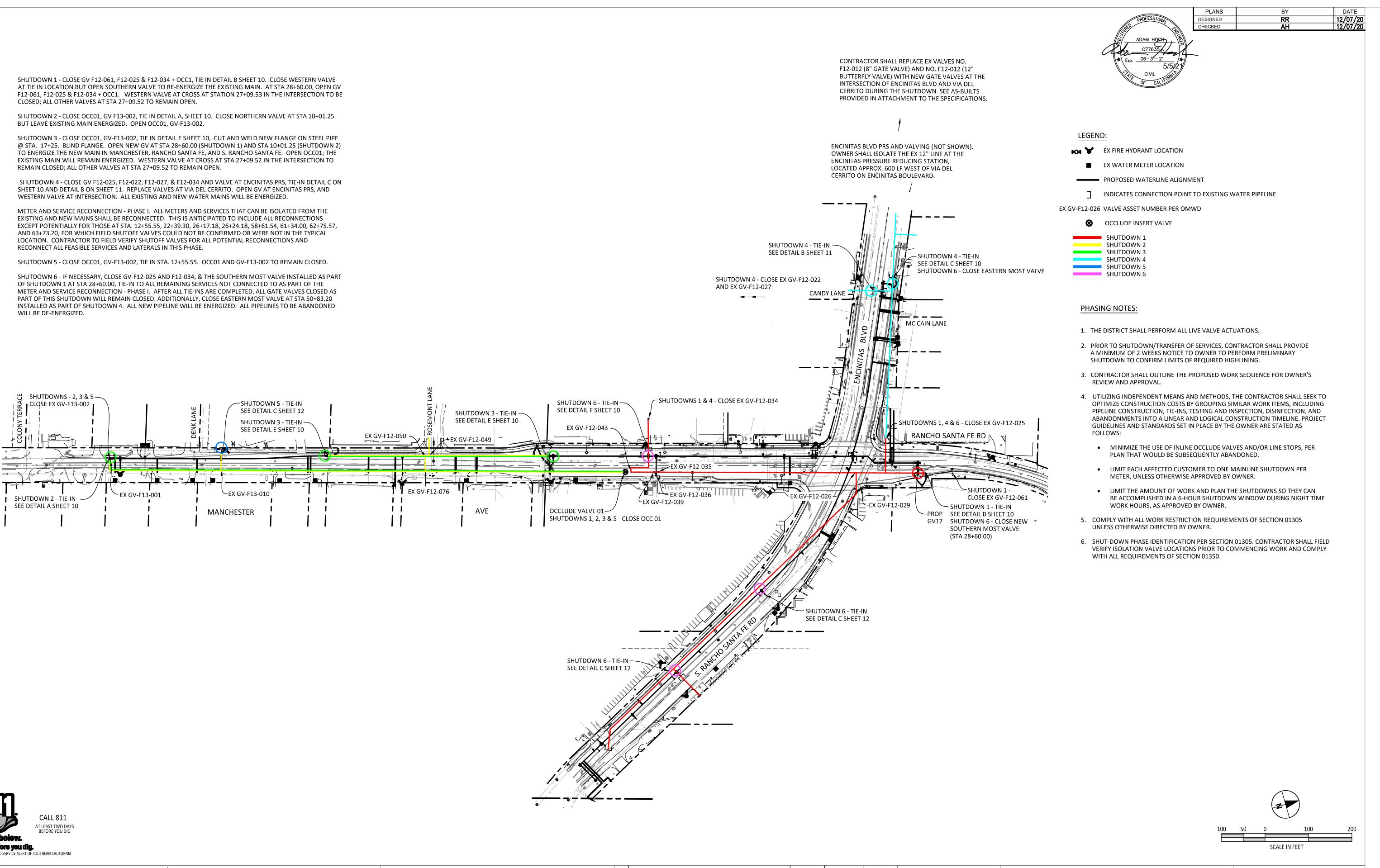


• ALL TREES IN THE VICINITY OF THE PROJECT SHALL BE PROTECTED IN PLACE. TREES LOCATED WITHIN THE CITY OF ENCINITAS' STREET RIGHT-OF-WAY, ON CITY OF ENCINITAS PROPERTY, OR WITHIN CITY OF ENCINITAS EASEMENTS ARE REFERRED TO AS CITY TREES AND SHALL BE PROTECTED IN PLACE DURING CONSTRUCTION UNLESS SPECIFICALLY APPROVED OTHERWISE BY THE CITY ARBORIST. NO GRADING, EXCAVATION, OR DISTURBANCE OF CITY TREE ROOT SYSTEMS SHALL OCCUR WITHIN THE CITY TREE DRIP LINE AREA (THE AREA FROM THE TRUNK OF THE TREE TO THE OUTERMOST EDGE OF THE TREE CANOPY PROJECTION ON THE GROUND). WATER PIPELINES AND APPURTENANCES SHALL NOT BE CONSTRUCTED WITHIN THE DRIP LINE OF CITY TREES.

 ANY CITY TREE SHALL BE PROTECTED IN PLACE IN ACCORDANCE WITH CITY OF ENCINITAS URBAN FOREST MANAGEMENT PROGRAM ADMINISTRATIVE MANUAL PROCEDURES DATED FEBRUARY 12, 2012, AND AS REQUIRED BY THE DISTRICT REPRESENTATIVE AND CITY OF ENCINITAS ARBORIST. TREE PROTECTION SHALL INCLUDE, BUT NOT BE LIMITED TO, NOT CUTTING ANY TREE ROOT GREATER THAN 2 INCHES IN DIAMETER, AND HAND-DIGGING AROUND TREE ROOTS. ANY TREE THAT IS DAMAGED. AS DEFINED BY THE CITY OF ENCINITAS ARBORIST. SHALL BE REPLACED IN KIND BY THE CONTRACTOR, AT NO ADDITIONAL COST TO THE DISTRICT OR THE CITY OF ENCINITAS.

REVISIONS BY	APPROVED	DATE	COORDINATE INDEX		SCALE: HOR. NONE VERT. NONE
OCH CONSULTING			747 4000	_ MANCHESTER AVE POTABLE WATER	
PIER VIEW WAY - SUITE 100			<u>317N.</u> <u>1698</u> _E	PIPELINE REPLACEMENT PROJECT	W.A. <b>RS11810</b> R.S. <b>11810</b>
ANSIDE, CA 92054 w.hochconsulting.com			CONST. COMPL.		
			FIELD REVISIONS	MISCELLANEOUS NOTES	SHEET_03OF_12_SHEETS

PROFESS/ONAL DES	PLANS	вү	DATE
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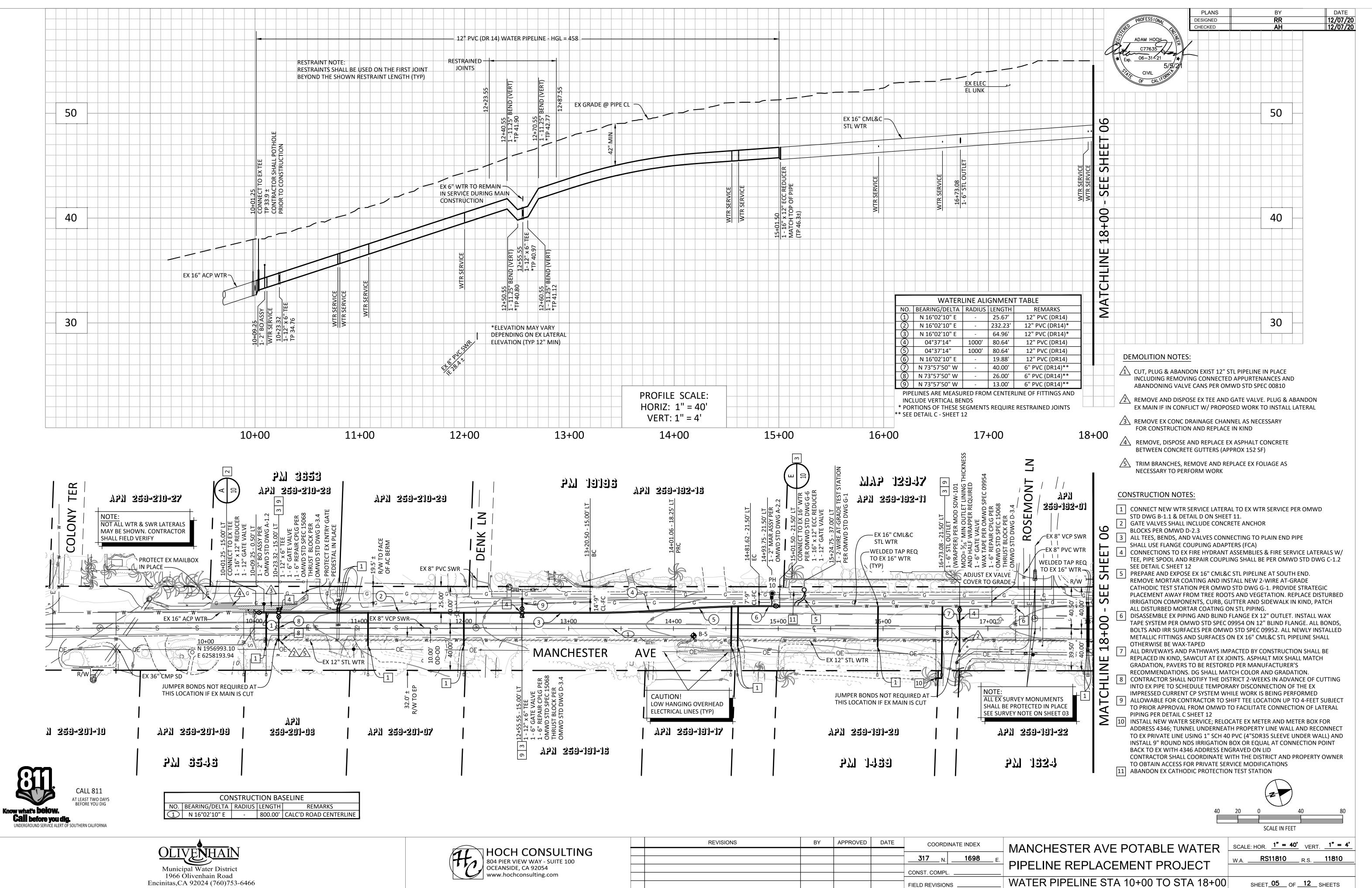




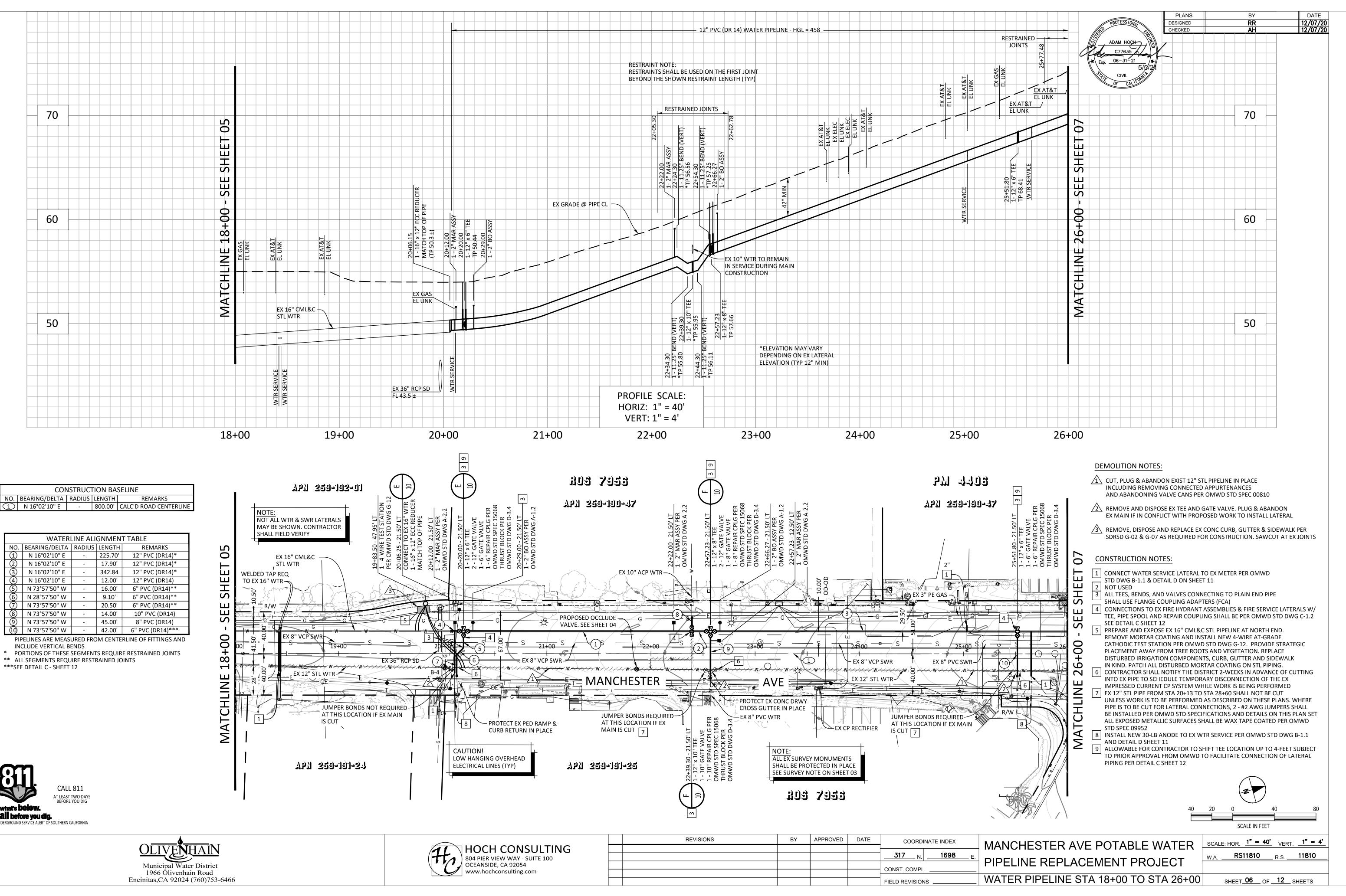


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ANCHESTER AVE POTABLE WATER	SCALE: HOR. <u>1" = 100'</u> VERT. <u>NONE</u>
PELINE REPLACEMENT PROJECT	W.A. <b>RS11810</b> R.S. <b>11810</b>
ONSTRUCTION PHASING PLAN	SHEET_04_OF_12_SHEETS



	REVISIONS	BY	APPROVED	DATE	COORDI	INATE INDEX	
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4 PIER VIEW WAY - SUITE 100					<u>317</u> N.	<b>1698</b> E.	
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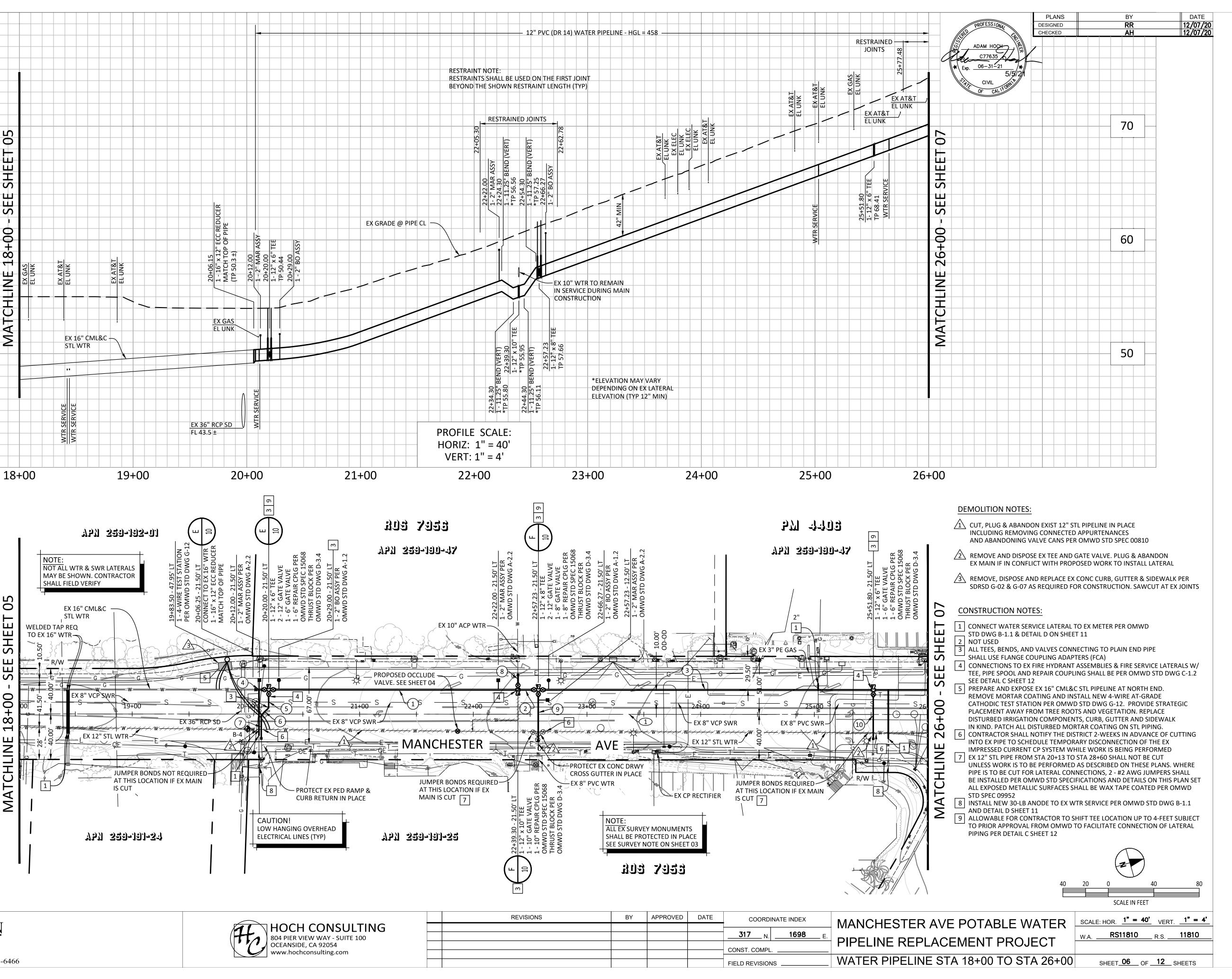
NO.         BEARING/DELTA         RADIUS         LENGTH         REMARKS           ①         N 16°02'10" E         -         800.00'         CALC'D ROAD CENTERLINE	CONSTRUCTION BASELINE								
1 N 16°02'10" E 800.00' CALC'D ROAD CENTERLINE	NO.	BEARING/DELTA	RADIUS	LENGTH	REMARKS				
	$\bigcirc$	N 16°02'10" E	-	800.00'	CALC'D ROAD CENTERLINE				

WATERLINE ALIGNMENT TABLE								
NO.	BEARING/DELTA	RADIUS	LENGTH	REMARKS				
1	N 16°02'10" E	-	225.70'	12" PVC (DR14)*				
2	N 16°02'10" E	-	17.90'	12" PVC (DR14)*				
3	N 16°02'10" E	-	342.84	12" PVC (DR14)*				
4	N 16°02'10" E	-	12.00'	12" PVC (DR14)				
5	N 73°57'50" W	-	16.00'	6" PVC (DR14)**				
6	N 28°57'50" W	-	9.10'	6" PVC (DR14)**				
$\bigcirc$	⑦         N 73°57'50" W         -         20.50'         6" PVC (DR14)**							
8	N 73°57'50" W	-	14.00'	10" PVC (DR14)				
9	N 73°57'50" W	-	45.00'	8" PVC (DR14)				
10	N 73°57'50" W	-	42.00'	6" PVC (DR14)***				
PIP	PELINES ARE MEAS	URED FRC	M CENTE	RLINE OF FITTINGS AND				

INCLUDE VERTICAL BENDS

\*\* ALL SEGMENTS REQUIRE RESTRAINED JOINTS

\*\*\*SEE DETAIL C - SHEET 12

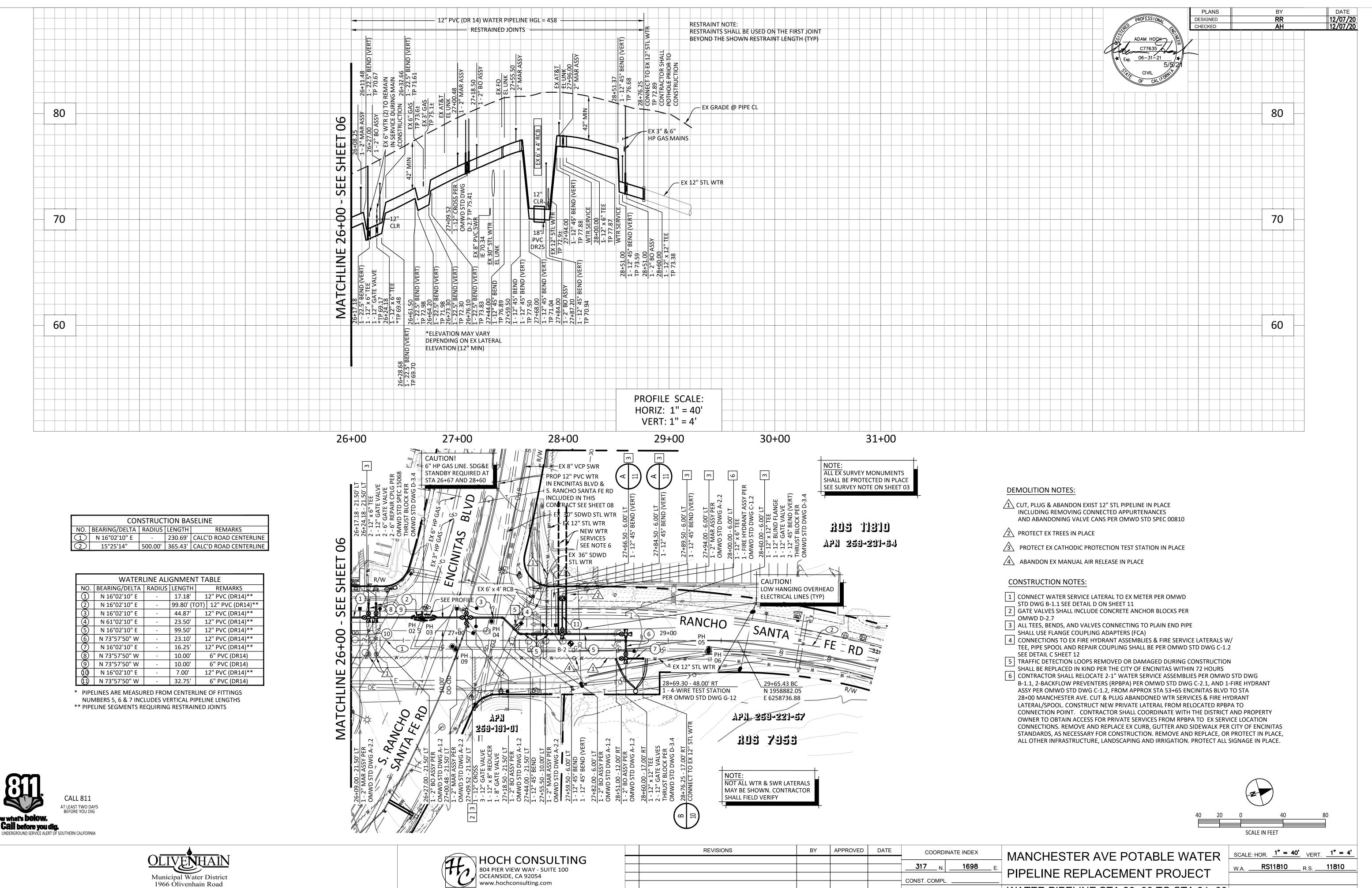




UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA







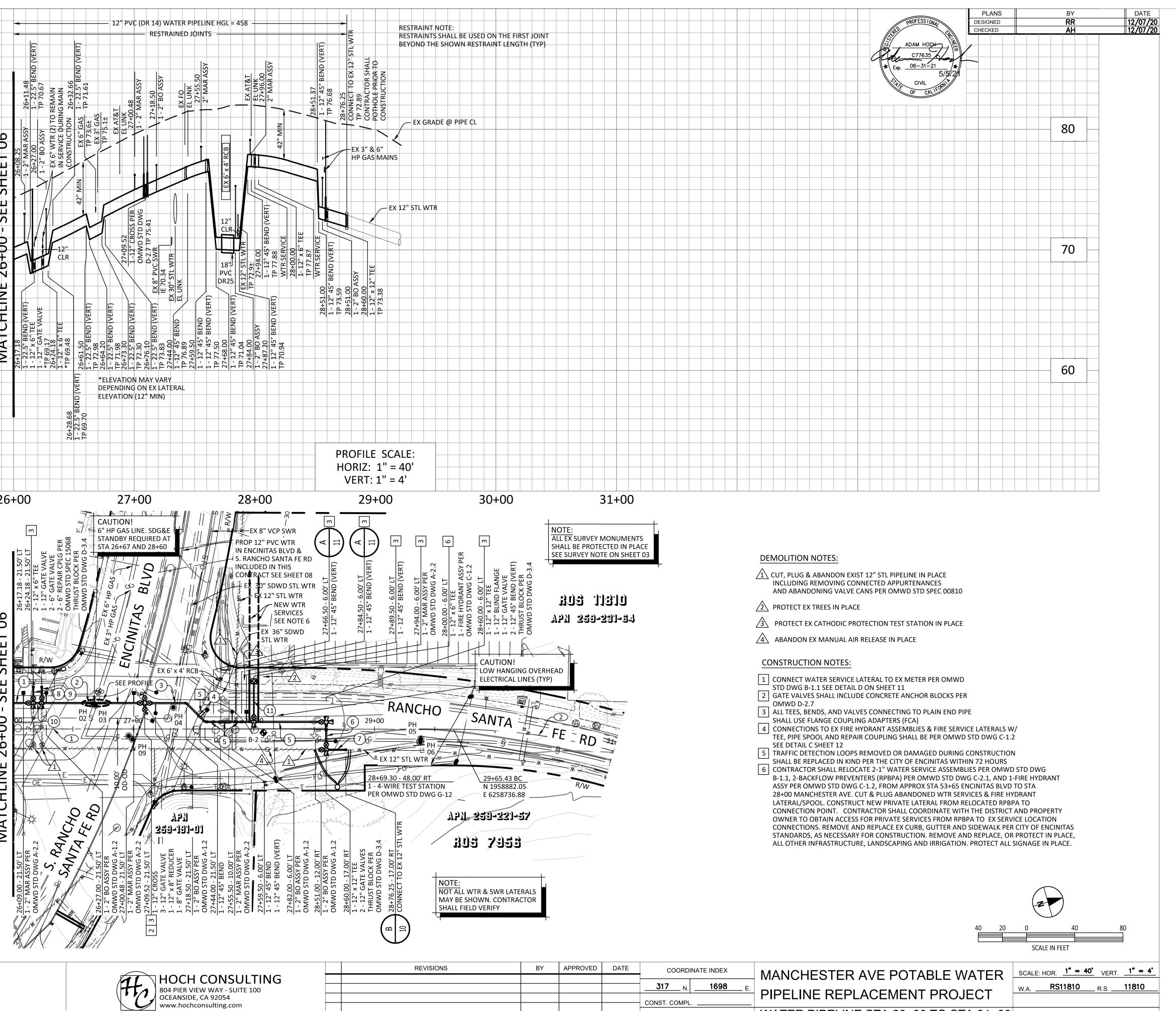
CONSTRUCTION BASELINE							
NO.	).   BEARING/DELTA   RADIUS   LENGTH   REMARKS						
	N 16°02'10" E	-	230.69'	CALC'D ROAD CENTERLINE			
$\bigcirc$	15°25'14"	500.00'	365.43'	CALC'D ROAD CENTERLINE			

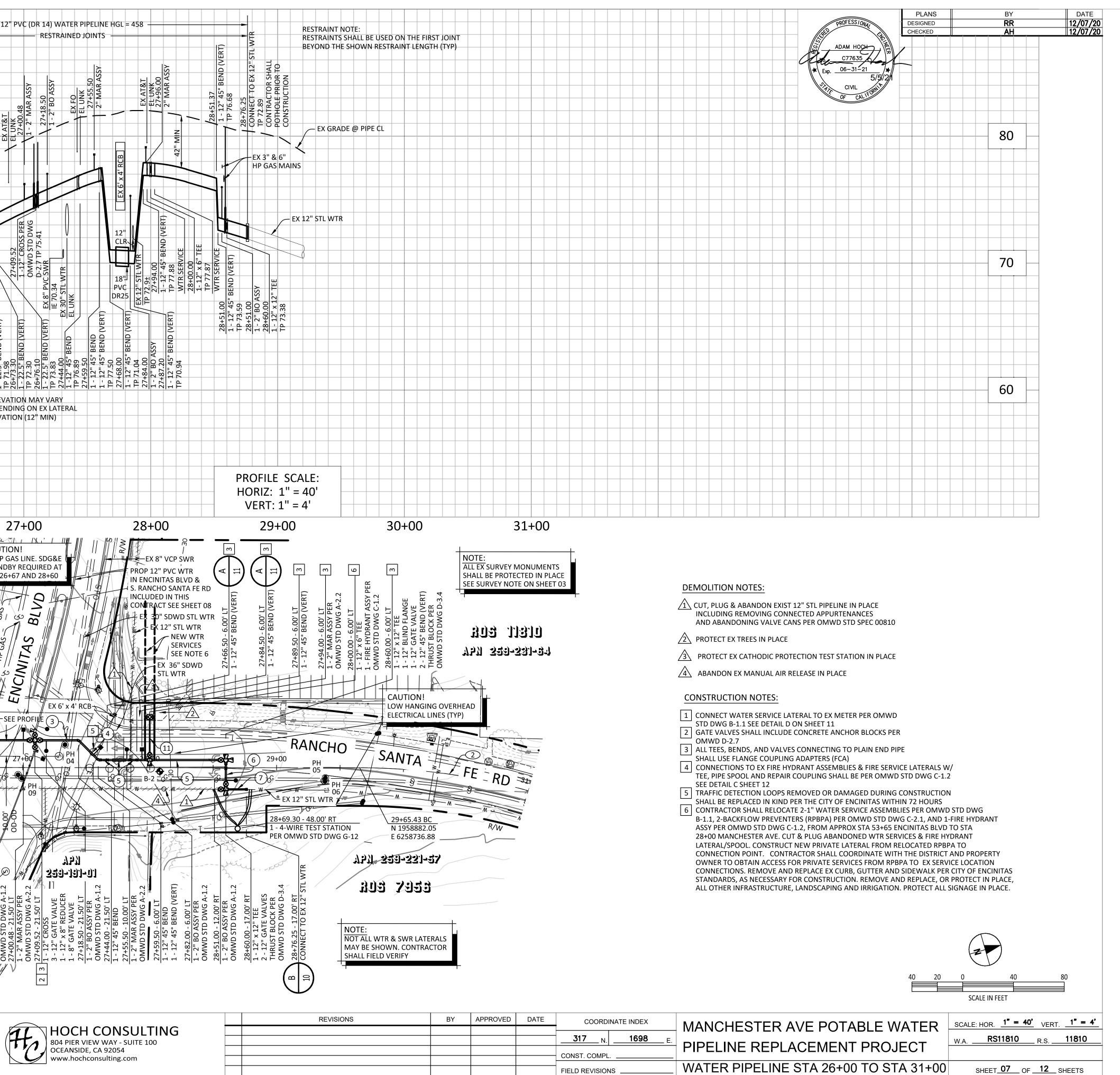
-								
	WATERLINE ALIGNMENT TABLE							
NO.	BEARING/DELTA	RADIUS	LENGTH	REMARKS				
1	N 16°02'10" E	-	17.18'	12" PVC (DR14)**				
2	N 16°02'10" E	-	99.80' (T	OT) 12" PVC (DR14)**				
3	N 16°02'10" E	-	44.87'	12" PVC (DR14)**				
4	N 61°02'10" E	-	23.50'	12" PVC (DR14)**				
5	N 16°02'10" E	-	99.50'	12" PVC (DR14)**				
6	N 73°57'50" W	-	23.10'	12" PVC (DR14)**				
$\overline{\mathcal{O}}$	N 16°02'10" E	-	16.25'	12" PVC (DR14)**				
8	N 73°57'50" W	-	10.00'	6" PVC (DR14)				
9	N 73°57'50" W	-	10.00'	6" PVC (DR14)				
10	N 16°02'10" E	-	7.00'	12" PVC (DR14)**				
1	N 73°57'50" W	-	32.75'	6" PVC (DR14)				
	•	•	•					



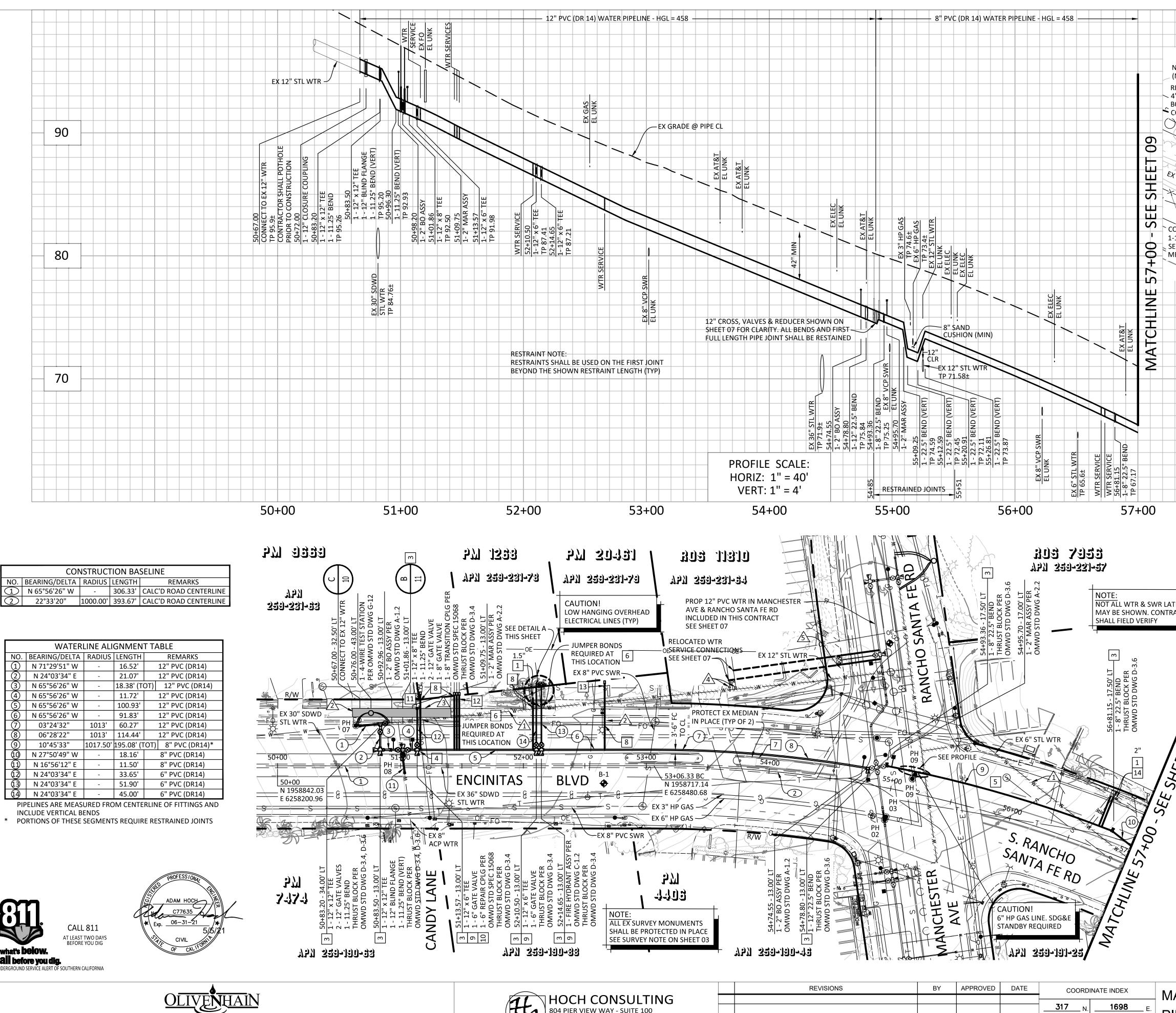
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IPELINE REPLACEMENT PROJECT	W.A	RS11810	)	R.S	<u>1</u>
ATER PIPELINE STA 26+00 TO STA 31+00		SHEET 07	_ OF _	12	_ SHE



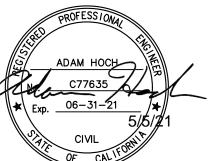
CONSTRUCTION BASELINE							
NO.	D. BEARING/DELTA RADIUS LENGTH REMARKS						
$\bigcirc$	N 65°56'26" W	-	306.33'	CALC'D ROAD CENTERLINE			
$\bigcirc$	22°33'20"	1000.00'	393.67'	CALC'D ROAD CENTERLINE			

WATERLINE ALIGNMENT TABLE							
NO.	BEARING/DELTA	RADIUS	LENGTH	REMARKS			
1	N 71°29'51" W	-	16.52'	12" PVC (DR14)			
2	N 24°03'34" E	-	21.07'	12" PVC (DR14)			
3	N 65°56'26" W	-	18.38' (T	OT) 12" PVC (DR14)			
4	N 65°56'26" W	-	11.72'	12" PVC (DR14)			
5	N 65°56'26" W	-	100.93'	12" PVC (DR14)			
6	N 65°56'26" W	-	91.83'	12" PVC (DR14)			
$\bigcirc$	03°24'32"	1013'	60.27'	12" PVC (DR14)			
8	06°28'22"	1013'	114.44'	12" PVC (DR14)			
9	10°45'33"	1017.50'	195.08' (T	OT) 8" PVC (DR14)*			
10	N 27°50'49" W	-	18.16'	8" PVC (DR14)			
1	N 16°56'12" E	-	11.50'	8" PVC (DR14)			
12	N 24°03'34" E	-	33.65'	6" PVC (DR14)			
13	N 24°03'34" E	-	51.90'	6" PVC (DR14)			
14)	N 24°03'34" E	-	45.00'	6" PVC (DR14)			
DID	ELINES ARE MEAS			RUNE OF FITTINGS AND			

PIPELINES ARE MEASURED FROM CENTERLINE OF FITTINGS AND INCLUDE VERTICAL BENDS



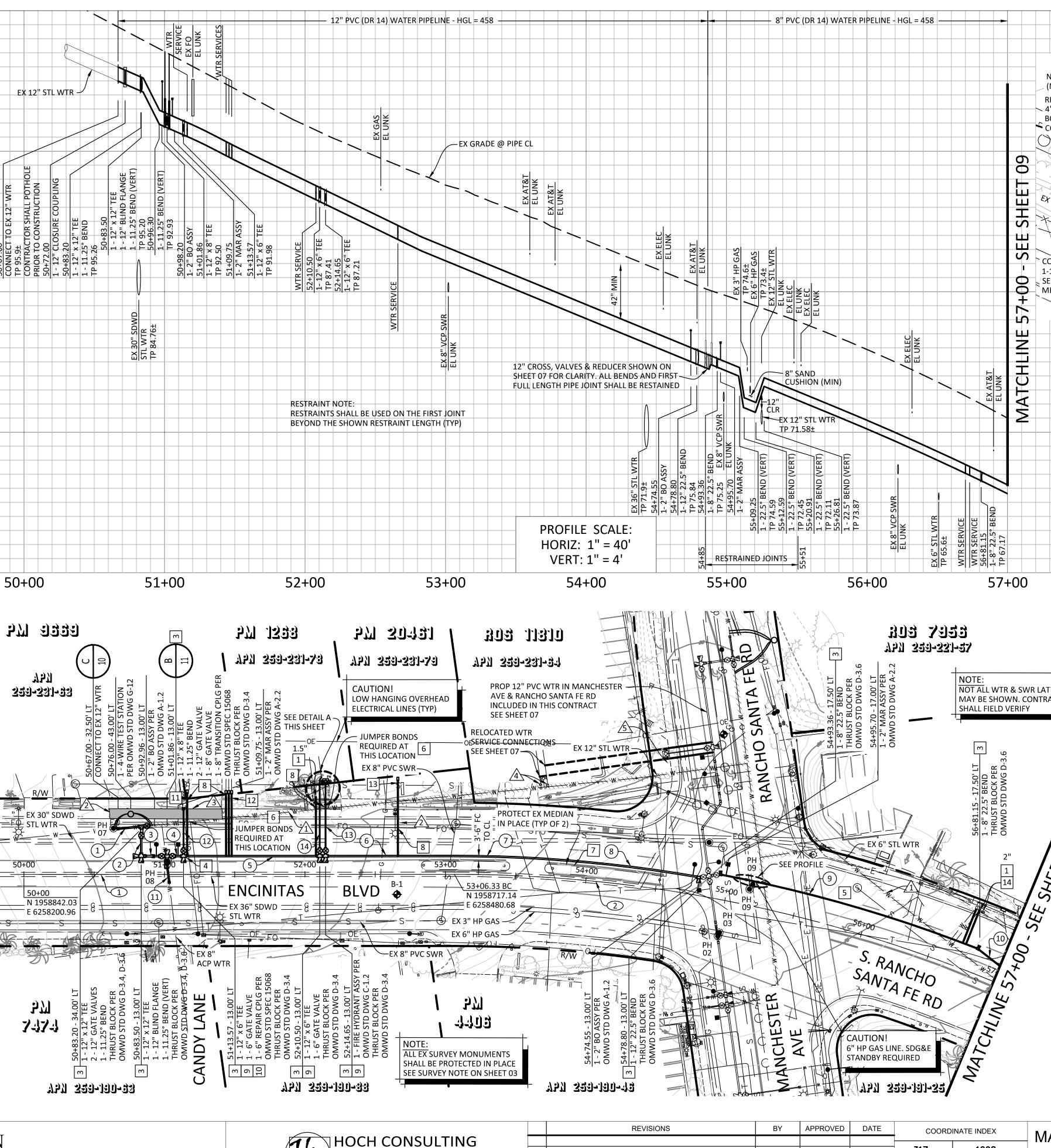
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Municipal Water District

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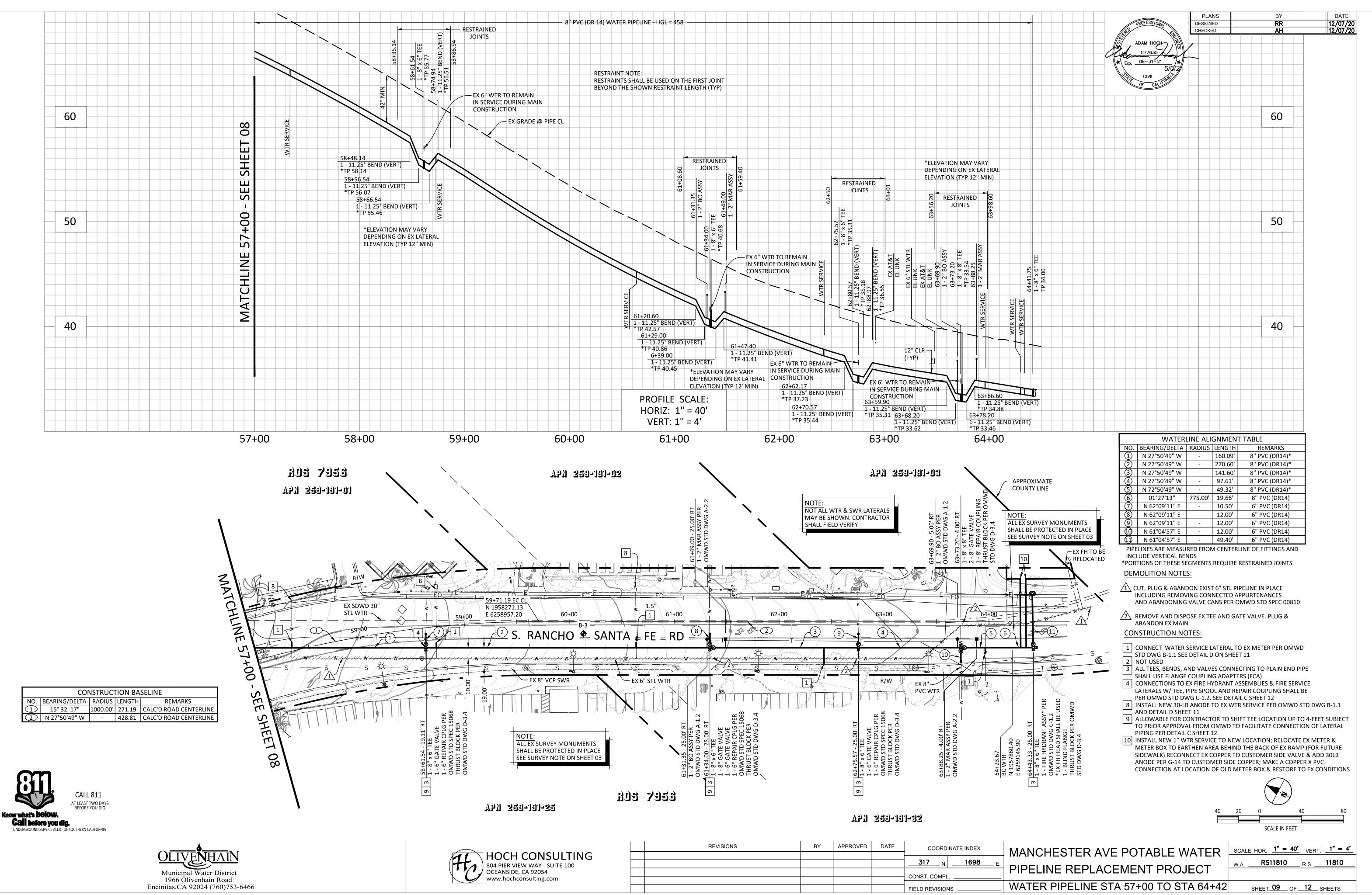
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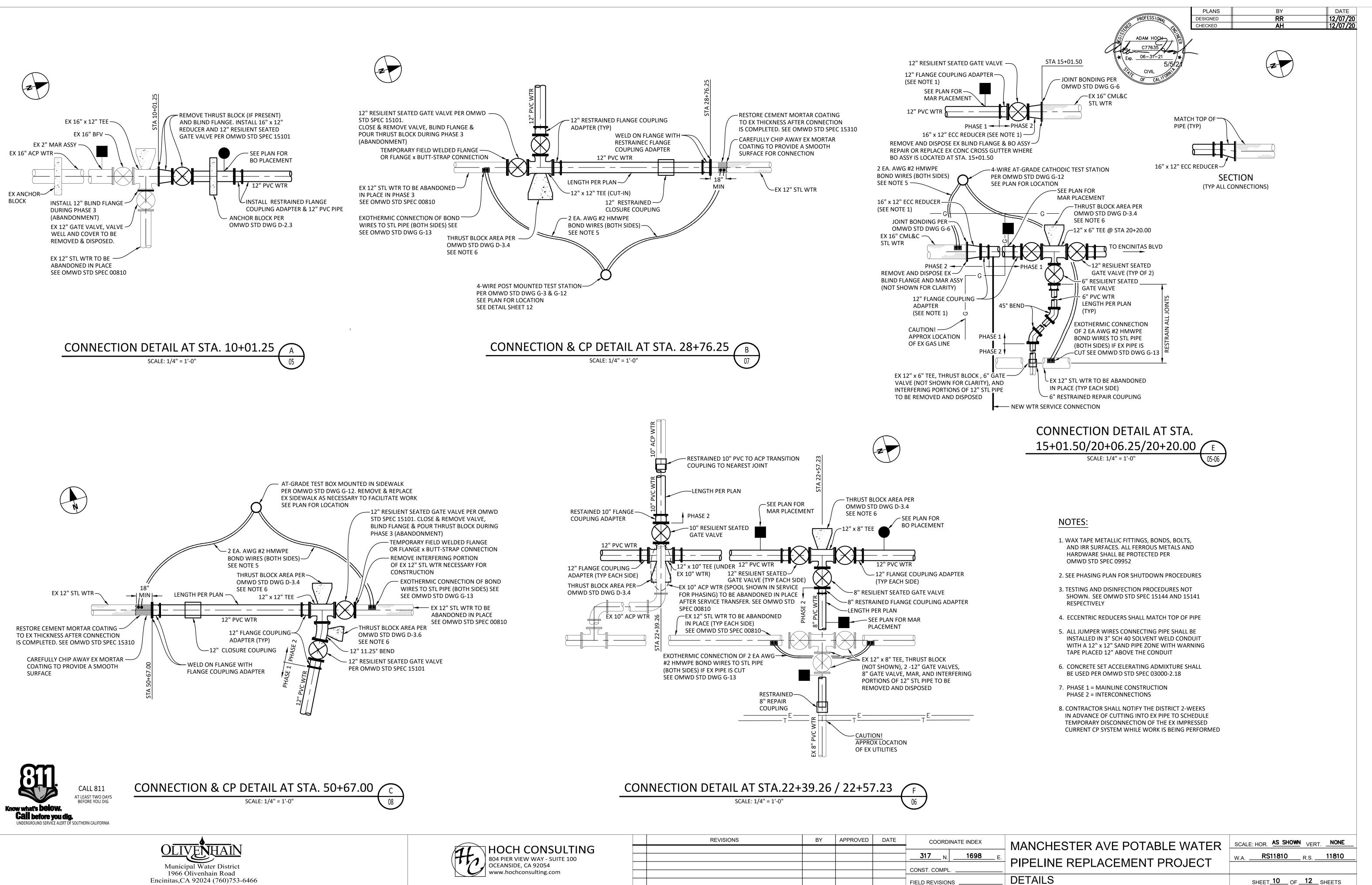
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FIELD REVISIONS

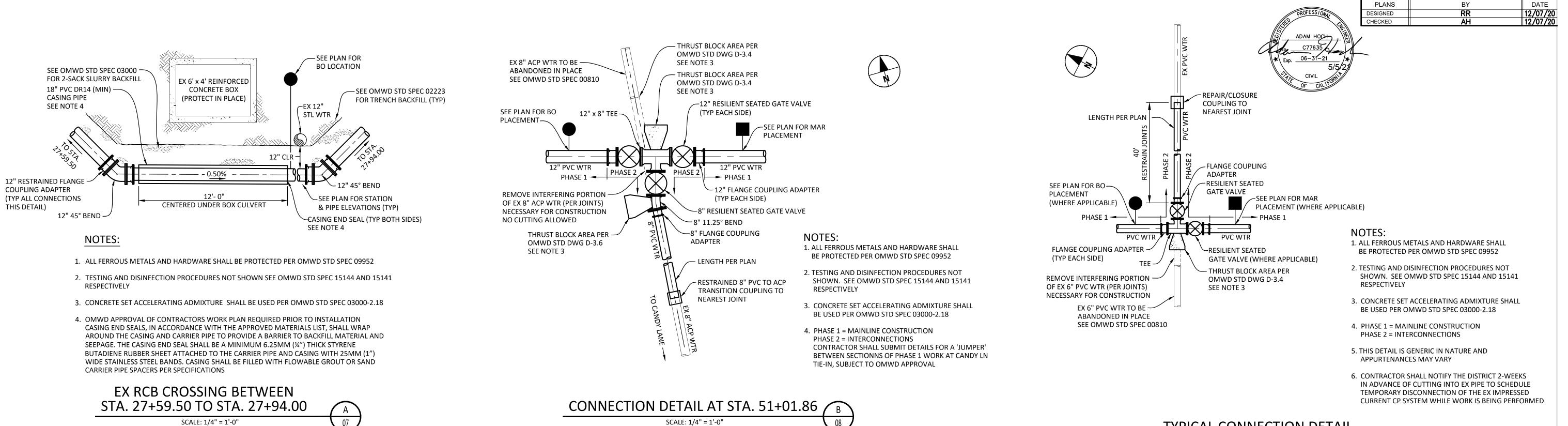
	PLANS DESIGNED CHECKED	вү <b>RR</b> АН	DATE 12/07/20 12/07/20
EX 1-1/2" WTR SERVICE	-EX 4" FIRE SERVICE		
CONNECT NEW CON	P/L - RELOCATE EX FIRE SERVICE 24" WESTERLY AND RECONNECT 9 - RELOCATE EX FH ASSY 24" WESTERLY 9 "" PROTECT EX SIGN IN PLACE EX LANDSCAPING AND VEGETATION TO BE REPLACED IN KIND DETAIL E SHEET 12 FOR NC CHANNEL REPLACEMENT	90	
SERVICE TO EX METER SERVICE TO EX METER SERVICE TO EX SERVICE TO EX SERV	EX 12" STL WTR TO BE ABANDONED IN PLACE	80	
DETAILA SCALE: 1"=10'			
DEMOLITION NOTES:       1     CUT, PLUG & ABANDON EXIST 12" STI	L PIPELINE		
IN PLACE INCLUDING REMOVING CO AND ABANDONING VALVE CANS PER	NNECTED APPURTENANCES OMWD STD SPEC 00810	70	
2       REMOVE, DISPOSE AND REPLACE EX         SDRSD G-02 & G-07 AS REQUIRED FO         PROTECT AND REUSE EX METAL HAN         LIGHT STANDARD IN PLACE	R CONSTRUCTION. SAWCUT	AT EX JOINTS	
REMOVE, DISPOSE AND REPLACE EX SDRSD G-14D AS REQUIRED FOR CON			
RELOCATE EX FIRE HYDRANT, WATEF PREVENTERS (2). CONTRACTOR SHAL THE DISTRICT'S REPRESENTATIVE. EX	L COORDINATE THESE ACTIV	ITIES WITH	г
CONSTRUCTION NOTES:			
<ul> <li>CONSTRUCTION NOTES:</li> <li>CONNECT 1" WATER SERVICE LATER OMWD STD DWG B-1.1 SEE DETAIL I 2 NOT USED</li> <li>ALL TEES, BENDS, AND VALVES CONI SHALL USE FLANGE COUPLING ADAP</li> <li>CONNECTIONS TO EX FIRE HYDRANT TEE, PIPE SPOOL AND REPAIR COUPL SEE DETAIL C SHEET 12</li> <li>TRAFFIC DETECTION LOOPS REMOVED SHALL BE REPLACED IN KIND PER TH</li> <li>EX 12" STL PIPE FROM STA 50+67 TC UNLESS WORK IS TO BE PERFORMED PIPE IS TO BE CUT FOR LATERAL CON BE INSTALLED PER OMWD STD SPEC</li> <li>MEDIAN CURB SHALL BE REMOVED. STANDARDS AS NECESSARY FOR CON SHALL BE PROTECTED IN PLACE.</li> <li>WATER AND FIRE HYDRANT SERVICE CLEARANCE BELOW CONCRETE CHAI UNDERCROSSING WITH 2-SACK SLUP DRAIN CHANNEL. SEE DETAIL E SHEE DETAIL. CONTRACTOR SHALL PROVID INSTALLATION FOR DISTRICT APPRO GUTTER AND SIDEWALK PER CITY OF CONC CHANNEL. CONTRACTOR SHALL PROVID INSTALLATION FOR DISTRICT APPRO GUTTER AND SIDEWALK PER CITY OF CONC CHANNEL. CONTRACTOR SHALL PROVID INSTALLATION FOR DISTRICT APPRO GUTTER AND SIDEWALK PER CITY OF CONC CHANNEL. CONTRACTOR SHALL PROVID INSTALL ATON FOR DISTRICT APPRO GUTTER AND SIDEWALK PER CITY OF CONC CHANNEL. CONTRACTOR SHALL PROVID INSTALL ARM SIDE WALVE &amp; ADD 30LB MAKE A COPPER TO CUSTOMER SIDE VALVE &amp; SCOPPER TO CUSTOMER SIDE VALVE &amp; ADD 30LB MAKE A COPPER X PVC CONNECTION TO FISTING CONDITIONS.</li> <li>INSTALL NEW 1" WTR SERVICE TO N DRWY, RELOCATE EX METER BOX TO CUSTOMER SIDE VALVE &amp; ADD 30LB MAKE A COPPER X PVC CONNECTION TO EXISTING CONDITIONS.</li> <li>INSTALL NEW 1" WTR SERVICE TO N BAKE A COPPER X PVC CONNECTION TO EXISTING CONDITIONS.</li> <li>INSTALL NEW 1" WTR SERVICE TO N BOR OPPER TO CUSTOMER SIDE VALVE SIDE COPPER, MAKE A COPPER X PVC WARES ADD 30LB ANODE PER G-14 VALVE &amp; ADD 30LB ANODE PER G-14</li> </ul>	D ON SHEET 11 NECTING TO PLAIN END PIPE PTERS (FCA) ASSEMBLIES & FIRE SERVICE LING SHALL BE PER OMWD S ED OR DAMAGED DURING CO E CITY OF ENCINITAS WITHIN O STA 55+50 SHALL NOT BE C D AS DESCRIBED ON THESE PL NECTIONS, 2 - #2 AWG JUM IFICATIONS. AND REPLACED PER CITY OF NSTRUCTION. EX SIGNS AND SSHALL HAVE A MINIMUM ONEL UNDERCROSSING. BAC RRY IN PIPE ZONE BENEATH S T 12 FOR CONC CHANNEL RE DE LAYOUT DRAWINGS PRIOD VAL. REMOVE AND REPLACE E ENCINITAS STANDARDS, FEI LL REMOVE AND REPLACE E ENCINITAS STANDARDS, FEI LL REMOVE AND REPLACE FOR CONC CHANNEL RE DE LAYOUT DRAWINGS PRIOD VAL. REMOVE AND REPLACE CONNECAPING AND IRRIGA NATE WITH THE DISTRICT AN RVICE MODIFICATIONS SHIFT TEE LOCATION UP TO 4 TO FACILITATE CONNECTION EW LOCATION BETWEEN EX D ANDDE PER G-14 TO CUSTO NAT LOCATION OF OLD METI O NEW LOCATION; RELOCATE SMINIMIZE VEGETATION REM VE & ADD 30LB ANODE PER C CONNECTION AT LOCATION S. EW LOCATION, RELOCATE EX T, RECONNECT EX COPPER TO 4 TO CUSTOMER SIDE COPPE OLD METER BOX & RESTORE	E LATERALS W/ TD DWG C-1.2 ONSTRUCTION 172 HOURS UT ANS. WHERE PERS SHALL ENCINITAS COLORED CONCRETE OF 12" KFILL STORM PLACEMENT R TO EX CURB, NCING, AND R PROTECT IN TION. PROTECT ID PROPERTY OWNER -FEET SUBJECT I OF LATERAL FH & EDGE OF CONC T EX COPPER TO MER SIDE COPPER; ER BOX & RESTORE EX METER (2) MOVAL; RECONNECT G-14 TO CUSTOMER N OF OLD METER BOX CONTOMER SIDE R; MAKE A COPPER X TO EXISTING CONDITI	ONS.
	40 20	0 40	80
MANCHESTER AVE POTABLE		E: HOR. <u>1" = 40'</u>	VERT. <u>1" = 4'</u>
PIPELINE REPLACEMENT PR			. <u>s. <b>11810</b></u>
WATER PIPELINE STA 50+00 TO	STA 57+00	SHEET 08 OF 1	2_SHEETS



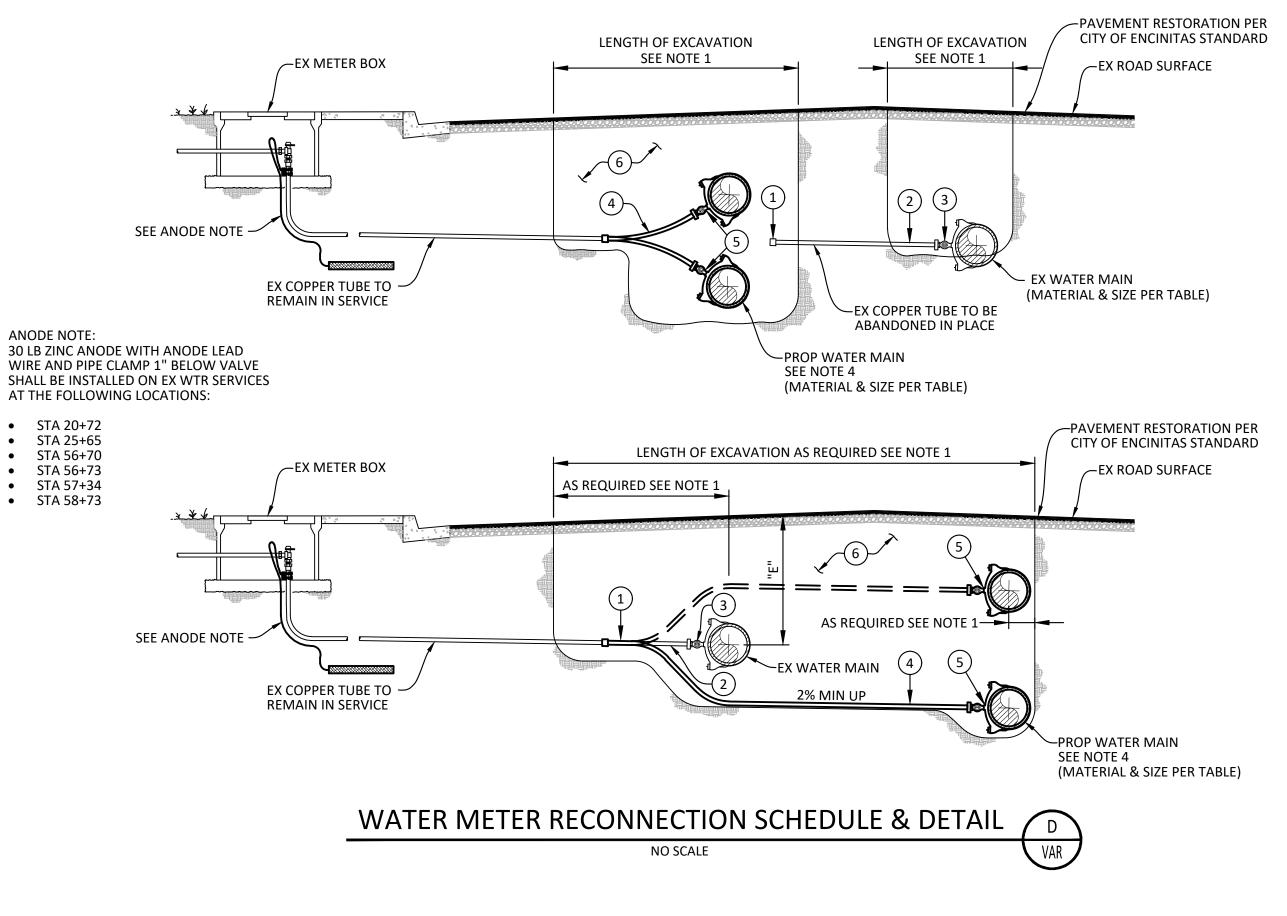
	REVISIONS	BY	APPROVED	DATE	COORDINATE INDEX	M
OCH CONSULTING					<u>317 N.</u> <u>1698</u> E.	
CEANSIDE, CA 92054 ww.hochconsulting.com					CONST. COMPL.	
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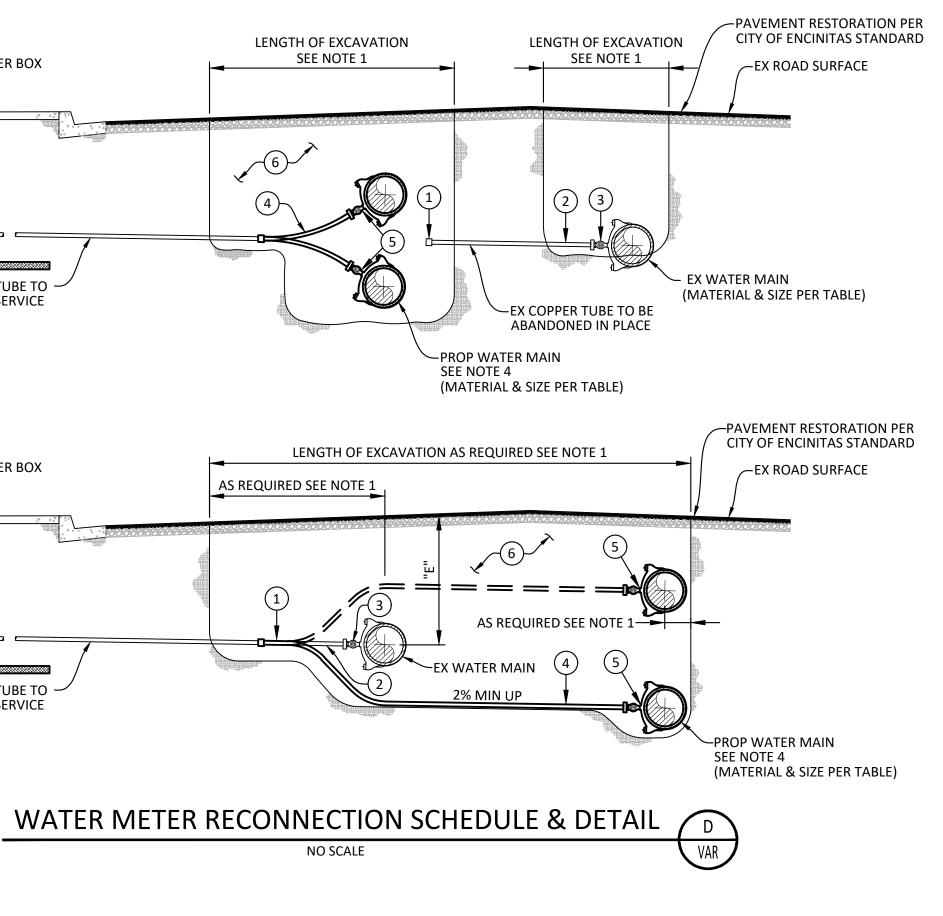


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OCH CONSULTING							4000	
PIER VIEW WAY - SUITE 100						<u>317</u> N.	<b>1698</b> E.	חוח
EANSIDE, CA 92054						CONST. COMPL		PIP
w.hochconsulting.com							·	
						FIELD REVISIONS		DET













# BEFORE YOU DIG



CALL 811 AT LEAST TWO DAYS

### **RECONNECTION NOTES:**

- 1. THE LIMITS OF EXCAVATION FOR EACH SITE TO BE DETERMINED BY THE CONTRACTOR AND DETAIL A SHEET 12.
- CONTRACTOR TO FIELD VERIFY THE EX SERVICE SIZE, DEPTH OF EX POTABLE WATER MAINS. THE SECTIONS SHOW THE 2. MIN COVER AS IS PER RECORD DRAWINGS, HOWEVER THE DEPTHS MAY VARY AT EACH LOCATION.
- 3. EXISTING UTILITY CROSSINGS SUCH AS WATER MAIN, SEWER, STORM DRAIN, AND DRY UTILITIES NOT SHOWN ON THE SECTION DETAILS, REFER TO THE PLAN & PROFILE DRAWINGS TO DETERMINE LOCATIONS. POTHOLE AS NECESSARY.
- 4. THE TWO VERTICAL LOCATIONS FOR THE PROPOSED MAIN ARE TO SHOW THE RECONNECTION CONFIGURATIONS WHERE THE PROPOSED WATER MAIN IS ABOVE OR BELOW THE EX WATER MAIN.

### MATERIAL SCHEDULE & WORK TO BE DONE

- (1) REMOVE AND DISPOSE EX COPPER WATER SERVICE PIPING AS REQUIRED. CONNECT ONE END WITH THE NEW WATER SERVICE USING A COMPRESSION COUPLING AND PLUG THE OTHER END WITH CONCRETE.
- (2) DISCONNECT, REMOVE AND DISPOSE EX COPPER WATER SERVICE PIPING BETWEEN THE EX CORP STOP BALL AND THE NEW CONNECTION WITH THE NEW WATER MAIN.
- (3) EX DUCTILE IRON SADDLE WITH BRONZE CORP STOP BALL TYPE AND POLYETHYLENE ENCASEMENT TO REMAIN IN PLACE, PROTECT FROM DAMAGE. CLOSE THE CORP STOP PRIOR TO DISCONNECTING EX COPPER TUBE. THE CORP STOP SHALL REMAIN CLOSED AFTER BACKFILL. IF THE WATER MAIN IS TO REMAIN IN SERVICE AFTER THE RECONNECTION, REMOVE THE CORP STOP AND INSTALL STAINLESS STEEL PLUG.
- (4) PROVIDE COPPER WATER TUBE, TYPE K, SOFT WITH COPPER SOLDER JOINT FITTINGS, 0-300 PSI.
- (5) PROVIDE OUTLET FOR PVC PRESSURE PIPE, 0-200 PSI, SEE OMWD STD DETAIL D-1.3
- (6) BACKFILL AND COMPACT PER OMWD SPECIFICATION SECTION 02223

WATER METER RECONNECTION TABLE								
SHEET NO.	STATION	SIZE (IN)	PROP WATER MAIN	EX WATER MAIN				
05	10+11	1	12" PVC	12" STEEL				
05	10+79	1	12" PVC	12" STEEL				
05	10+81	1	12" PVC	12" STEEL				
05	11+08	1	12" PVC	12" STEEL				
05	12+00	1	12" PVC	12" STEEL				
05	14+55	1	12" PVC	12" STEEL				
05	14+61	1	12" PVC	12" STEEL				
05	15+95	1	N/A	16" STEEL				
05	16+56	1	N/A	16" STEEL				
05	17+95	1	N/A	16" STEEL				
05	17+98	1	N/A	16" STEEL				
06	18+42	1	N/A	16" STEEL				
06	18+44	1	N/A	16" STEEL				
06	20+11	1	12" PVC	12" STEEL				
06	25+03	2	12" PVC	12" STEEL				
06	25+65	1	12" PVC	12" STEEL				
07	27+97	1	12" PVC	12" STEEL				

WATER METER RECONNECTION TABLE								
SHEET NO.	STATION	SIZE (IN)	PROP WATER MAIN	EX WATER MAIN				
07	28+03	1	12" PVC	12" STEEL				
08	51+16	1	8" PVC	12" STEEL				
08	51+44	1	8" PVC	12" STEEL				
08	51+46	1	8" PVC	12" STEEL				
08	51+48	1	8" PVC	12" STEEL				
08	52+08	1.5	8" PVC	12" STEEL				
08	52+66	1	8" PVC	12" STEEL				
08	56+70	2	8" PVC	6" STEEL				
08	56+73	2	8" PVC	6" STEEL				
09	57+34	1	8" PVC	6" STEEL				
09	58+73	1	8" PVC	6" STEEL				
09	60+64	1.5	8" PVC	6" STEEL				
09	62+43	1	8" PVC	6" STEEL				
09	63+96	1	8" PVC	6" STEEL				
09	64+30	1	8" PVC	6" STEEL				
09	64+35	1	8" PVC	6" STEEL				

	REVISIONS	BY	APPROVED	DATE	COORDINATE INDEX	
HOCH CONSULTING						MANCHESTER AVE POTABLE WATER $~~$
304 PIER VIEW WAY - SUITE 100					<u>317</u> N <u>1698</u> E.	
DCEANSIDE, CA 92054						PIPELINE REPLACEMENT PROJECT
www.hochconsulting.com						
					FIELD REVISIONS	DETAILS

### **TYPICAL CONNECTION DETAIL** STATIONS 12+55.55, 22+39.30, 26+17.18, 26+24.18 58+61.54, 61+34.00, 62+75.57 & 63+73.20 C VAR SCALE: 1/4" = 1'-0"

SCALE: HOR.	AS SHOWN VE	ERT. NONE
W.A	1 <b>810</b> R.S	11810

SHEET 11 OF 12 SHEETS

