



SHT NO.	DRAWING TITLE	DWG. NO
1	TITLE SHEET	T-1
2	GENERAL NOTES	G-1
3	PLAN AND PROFILE, STA. 10+00 TO STA. 16+50	
	AND STA. 20+00 TO STA. 21+94	C-1
4	PRESSURE REDUCING STATION REPLACEMENT	C-2





# **LONE JACK PRESSURE REDUCING STATION** REPLACEMENT PROJECT

**NOVEMBER 2021 OMWD WO NUMBER D120178** 

# **OLIVENHAIN MUNICIPAL WATER DISTRICT**

1966 OLIVENHAIN ROAD ENCINITAS, CA 92024 (760) 753-6466

# **BOARD OF DIRECTORS**

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11-18-2021 JASON HUBBARD, P.E. R.C.E. C60317 **ENGINEERING MANAGER** 

#### OWNER/APPLICANT

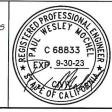
OLIVENHAIN MUNICIPAL WATER DISTRICT 1966 OLIVENHAIN ROAD ENCINITAS, CA 92024 (760)753-6466

### HORIZONTAL DATUM

THE BASIS OF BEARINGS IS GRID NORTH, CALIFORNIA STATE PLAN COORDINATES NAVD83, ZONE, VI, DERIVED FROM THE R.T.C.M. G.P.S STATION "CLBD"

## **BENCHMARK**

ASSUMED ELEVATION FROM THE R.C.T.M. G.P.S. STATION "CLBD"



<u>OLIVENHAIN</u>

T-1 WO D12078

#### **GENERAL NOTES:**

- 1. POTABLE WATER WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS AND MATERIALS AS SPECIFIED IN THE MOST RECENT EDITION OF THE OLIVENHAIN MUNICIPAL WATER DISTRICT (DISTRICT) STANDARD SPECIFICATIONS AND DRAWINGS FOR THE CONSTRUCTION OF WATER MAINS AND FACILITIES, INCLUDING ALL AMENDMENTS ADOPTED PRIOR TO THE DISTRICT APPROVAL DATE ON THESE PLANS. CONTRACTOR SHALL HAVE A COPY OF THE STANDARD SPECIFICATIONS ON THE JOB SITE AT ALL TIMES.
- 2. THE SUBMISSION AND REVIEW OF ALL SUBMITTALS (SHOP DRAWINGS, AS REQUIRED BY THE STANDARD SPECIFICATIONS ARE TO BE ACCOMPLISHED PRIOR TO THE PRE-CONSTRUCTION MEETING WITH THE DISTRICT'S COMMENTS.
- 3. UNLESS OTHERWISE NOTED, CONNECTIONS TO EXISTING MAINS SHALL BE MADE DRY. THE TIME AND DURATION OF ANY SHUTDOWNS OF EXISTING MAINS SHALL BE SUBJECT TO APPROVAL BY THE DISTRICT DISTRICT SHALL BE NOTIFIED TWO WEEKS MINIMUM IN ADVANCE OF ANY
- 4. CONTRACTOR SHALL COORDINATE WITH DISTRICT ALL ARRANGEMENTS FOR HIGH-LINING TEMPORARY SERVICES PRIOR TO SHUTDOWNS. NO SHUTDOWNS WILL BE SCHEDULED ON A MONDAY OR FRIDAY.
- 5. CONTRACTOR SHALL REVIEW ALL PROPOSED TRENCH WORK WITH CAL/OSHA A COPY OF THE EXEMPTION LETTER OR TRENCHING PERMIT, IF REQUIRED, SHALL BE SUBMITTED TO THE DISTRICT PRIOR TO
- 6. NO WORK MAY BEGIN OR PROCEED WITHOUT DIRECTION OF DISTRICT'S INSPECTOR CONTRACTOR SHALL NOTIFY THE DISTRICT ENGINEERS DEPARTMENT 48 HRS. PRIOR TO THE BEGINNING OF WORK TO ARRANGE FOR INSPECTION OF THE PROJECT
- 7. THE CONTRACTOR MUST CALL "DIG ALERT" TO HAVE UNDERGROUND SERVICE UTILITIES LOCATED PRIOR TO CONSTRUCTION. THIS CALL WILL BE MADE AT LEAST 48 HOURS IN ADVANCE PRIOR TO ANY WORK BEING PERFORMED IN PUBLIC RIGHT-OF-WAY. (DIG ALERT PHONE: 811)
- 8. ALL EXISTING FACILITIES WHICH MAY AFFECT PROJECT CONSTRUCTION, I.E., LINE CROSSINGS, LINE PARALLELING, OR PROPOSED CONNECTIONS SHALL BE FIELD VERIFIED BEFORE ANY CONSTRUCTION BEGINS.
- 9. THE CONTRACTOR SHALL FURNISH AND INSTALL PER THE STANDARD SPECIFICATIONS THE APPROPRIATE BURIED UTILITY WARNING AND IDENTIFICATION TAPE ABOVE ALL PUBLIC WATER LINES INCLUDING WATER LATERALS LOCATED IN PUBLIC RIGHT-OF-WAY.
- 10. WHERE ELEVATIONS AND GRADES ARE NOT SHOWN ON THE WATER MAIN WHERE ELEVATIONS AND GRADES ARE NOT SHOWN ON THE WATER MAIN PROFILE, TOP OF PIPE PROFILE IS 48—INCHES BELOW CENTERLINE OR AS SHOWN ACCORDING TO THE PROFILE COVER BELOW CENTERLINE OF FINISH GRADE OF STREET. NOT USED
- 11. ALL DEFLECTIONS (HORIZONTAL AND VERTICAL) SHALL BE MADE USING JOINT COUPLINGS WITH 4" MAXIMUM DEFLECTION PER COUPLING (2" PER JOINT). NO BENDING (CURVING) OF PIPE SHALL BE PERMITTED.
- 12. MANUAL AIR RELEASES SHALL BE INSTALLED AT ALL HIGH POINTS AND MANUAL AIR RELEASES SHALL BE INSTALLED AT ALL HIGH POINTS AND BLOW-OFFS AT ALL LOW POINTS IN THE WATER MAIN PROFILE. PLACE MANUAL AIR RELEASES AND BLOW-OFFS WITHIN METER BOX AND LOCATE BEHIND CURB UNLESS OTHERWISE APPROVED BY DISTRICT'S REPRESENTATIVE. FIRE HYDRANTS MAY BE USED IN LIEU OF A MANUAL AIR RELEASE OR BLOW-OFF WHEN LOCATED AT OR NEAR HIGH OR LOW POINTS, AS APPROVED BY THE DISTRICT'S REPRESENTATIVE.
- 13. INSTALL A MINIMUM 1—INCH WATER SERVICE TO EACH LOT. METER TO BE LOCATED 5—FEET FROM A SIDE LOT LINE. A 3/4 INCH HIGH LETTER "W" SHALL BE CHISELED IN TOP OF EXISTING CURB OR IMPRINTED IN NEW CURB AT ALL WATER SERVICE CROSSINGS. NOT USED
- 14. METER BOXES SHALL NOT BE PLACED WITHIN DRIVEWAYS OR SIDEWALKS WITHOUT THE DISTRICT'S PRIOR WRITTEN CONSENT.

- 15. ALL WATER SERVICES FOR IRRIGATION, MULTIPLE RESIDENTIAL COMPLEXES, COMMERCIAL OR INDUSTRIAL DEVELOPMENT SHALL HAVE APPROVED BACKFLOW PREVENTION DEVICE ON CUSTOMER'S SIDE OF
- 16. CONTRACTOR SHALL TIE OFF ALL VALVE LOCATIONS AND PROVIDE WRITTEN DIMENSIONS TO INSPECTOR IMMEDIATELY UPON INSTALLATION
- 17. LINE VALVES, WHERE REQUIRED AT STREET INTERSECTIONS SHALL BE LOCATED AT THE TEE WHENEVER POSSIBLE. NOT USED
- 18. FIRE HYDRANTS, AS APPROVED BY THE APPROPRIATE FIRE DISTRICT AND MEETING THE DISTRICT'S STANDARD SPECIFICATIONS, ARE TO BE INSTALLED AT LOCATIONS SPECIFIED BY THE FIRE DISTRICT. NOT USED
- 19. ALL DESIGN CHANGES TO THE WATER SYSTEM SHALL BE APPROVED BY THE DISTRICT REPRESENTATIVE IN WRITING PRIOR TO CONSTRUCTION AND ACCEPTANCE OF THE CHANGE.
- 20. THE WATER SYSTEM SHALL BE PRESSURE TESTED IN ACCORDANCE WITH THE PROCEDURES IN THE OMWD STANDARD SPECIFICATIONS. THE CLASS OF PIPE SHALL BE USED AS THE DESIGNATED WORKING PRESSURE FOR TESTING ALL PIPE, VALVES (CLOSED) AND APPURTENANCES.
- 21. PIPELINES AND APPURTENANCES SHALL BE DISINFECTED IN ACCORDANCE WITH SECTION 15041 OF THE OMWD STANDARD SPECIFICATIONS PRIOR TO TIE-IN OR CONNECTION TO EXISTING SYSTEM FACILITIES. BACTERIOLOGIC QUALITY TEST RESULTS SHALL CONFORM TO THE CRITERIA SPECIFIED IN SPECIFICATION
- 22. CONTRACT RECORD DRAWINGS MUST BE SUBMITTED PRIOR TO FINAL ACCEPTANCE OF WORK. THE PLANS MUST PROVIDE POST CONSTRUCTION VERIFICATION OF THE LOCATION AND ELEVATION OF PIPES AND
- 23. CONTRACTOR SHALL GUARANTEE ALL WORK FOR A PERIOD OF TWO (2) YEARS AFTER THE DATE OF ACCEPTANCE FOR THE PROJECT.
  CONTRACTOR SHALL REPAIR OR REPLACE ANY OR ALL SUCH WORK, TOGETHER WITH ANY OTHER WORK WHICH MAY BE DISPLACED IN SO DOING THAT MAY PROVE DEFECTIVE IN WORKMANSHIP AND/ OR MATERIALS WITHIN THE ONE—YEAR PERIOD FROM THE DATE OF ACCEPTANCE WITHOUT EXPENSE WHATSOEVER TO THE DISTRICT. ORDINARY WEAR AND TEAR, UNUSUAL ABUSE OR NEGLECT EXCEPTED.
- 24. ALL IRRIGATION METERS SHALL BE SERVED WITH RECYCLED WATER UNLESS PREVIOUSLY APPROVED IN WRITING BY THE DISTRICT.
- 25. ALL BURIED METAL FITTINGS AND VALVES SHALL BE WAX TAPE WRAPPED IN ACCORDANCE WITH OMWD STANDARD SPECIFICATIONS.
- 26. ALL CONSTRUCTION TO CONFORM WITH (STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, SECTION 306), SPECIAL PROVISIONS FOR WORK DONE UNDER ALL EXCAVATION PERMIT (1922), AND CURRENT SAN DIEGO DEPARTMENT OF PUBLIC WORKS DESIGN STANDARDS
- 27. EXISTING HYDRAULIC GRADE LINE FOR PRESSURE TESTING SHALL BE EQUAL TO ELEVATION = 550'
- 28. ALL EXISTING ACP SHALL BE RESTRAINED FROM MOVEMENT DURING PROPOSED CONNECTIONS

#### LEGEND:

LEGEND.	
PIPELINE	
TEMPORARY HIGHLINE	21 100 100 100 100 100 100 100 100 100 1
EX. WATER LINE (SIZE NOTED)	8"W
EX. SEWER LINE (SIZE NOTED)	10"ss
EX. ELECTRICAL LINE	— Е
EX. COMMUNICATION LINE	сом
PAVEMENT EDGE	
PROPERTY LINE	
EASEMENT LINE	
FENCE	
WATER METER	WM
FIRE HYDRANT	***
PROPOSED COMBINATION AIR VALVE	(A)
PROPOSED WATER VALVE	$\otimes$
PROPOSED BLOW-OFF	•
PROPOSED MANUAL AIR RELEASE VALVE	0
EX. WATER VALVE	$\otimes$
EX. SEWER MANHOLE	S
EX. BLOW-OFF	
EX. MANUAL AIR RELEASE VALVE	$\bigcirc$
EX. POST	
EX. POST GUARD	•
EX. POWER POLE	
EX. WATER VAULT	W
EX. FIRE HYDRANT	
	* I *

#### **ABBREVIATIONS:**

BFV BO CATV  CATV  CATV  COMM. DI DIA. DOC. DWG EA CAT EL. OR ELEV. EX. OR EXIST. FIN FO GV H.P.I. INV. LF	CABLE TELEVISION CENTER LINE CEMENT MORTAR LINED AND COATED COMMUNICATION DUCTILE IRON DIAMETER DOCUMENT DRAWING EACH ELEVATION EXISTING FINISH FLANGE FORCE MAIN FIBER OPTIC CABLE (BURIED) GATE VALVE HORIZONTAL POINT OF INTERSECTION	OMWD PVC PE PRS PZ REC R/W, ROW RSGV SD STA. STD. SS	NORTH AMERICA VERTICAL DATUM OF 1988 NATIONAL GEODETIC VERTICAL DATUM OF 1929 NOT IN CONTRACT NUMBER ON CENTER OVERHEAD ELECTRIC WIRE OLIVENHAIN MUNICIPAL WATER DISTRICT POLYVINYL CHLORIDE PLAIN END PRESSURE REDUCING STATION PRESSURE ZONE RECORD RIGHT OF WAY RESILIENT SEAT GATE VALVE STORMDRAIN STANDARD STANDARD STAINLESS STEEL STEEL TELEPHONE LINE TOP OF PIPE TYPICAL VERTICAL POINT OF INTERSECTION WATER WITH

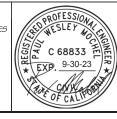


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ASSUMED ELEVATION FROM THE R.C.T.M. G.P.S. STATION "CLBD"



ENHAIN Water District ipal Oliv

District Road

OLIVI OLIVI

REDU( PRO

X Z

SHEET

GENERAL

Z SCALE

G-1 WO D12078

