

IN THE CITY OF DANA POINT, COUNTY OF ORANGE, STATE OF CALIFORNIA

DANA POINT HARBOR PRIVATE DOMESTIC WATER AND SEWER PLAN

34571 GOLDEN LANTERN STREET
DANA POINT, CA 92629
PREPARED FOR:
DANA POINT HARBOR PARTNERS, LLC
1100 NEWPORT CENTER DR. STE 200
NEWPORT BEACH, CA 92660

Zoning: CanningK 11/2/2022

Building&Safety: Roshanak Amirazizi 11/2/2022

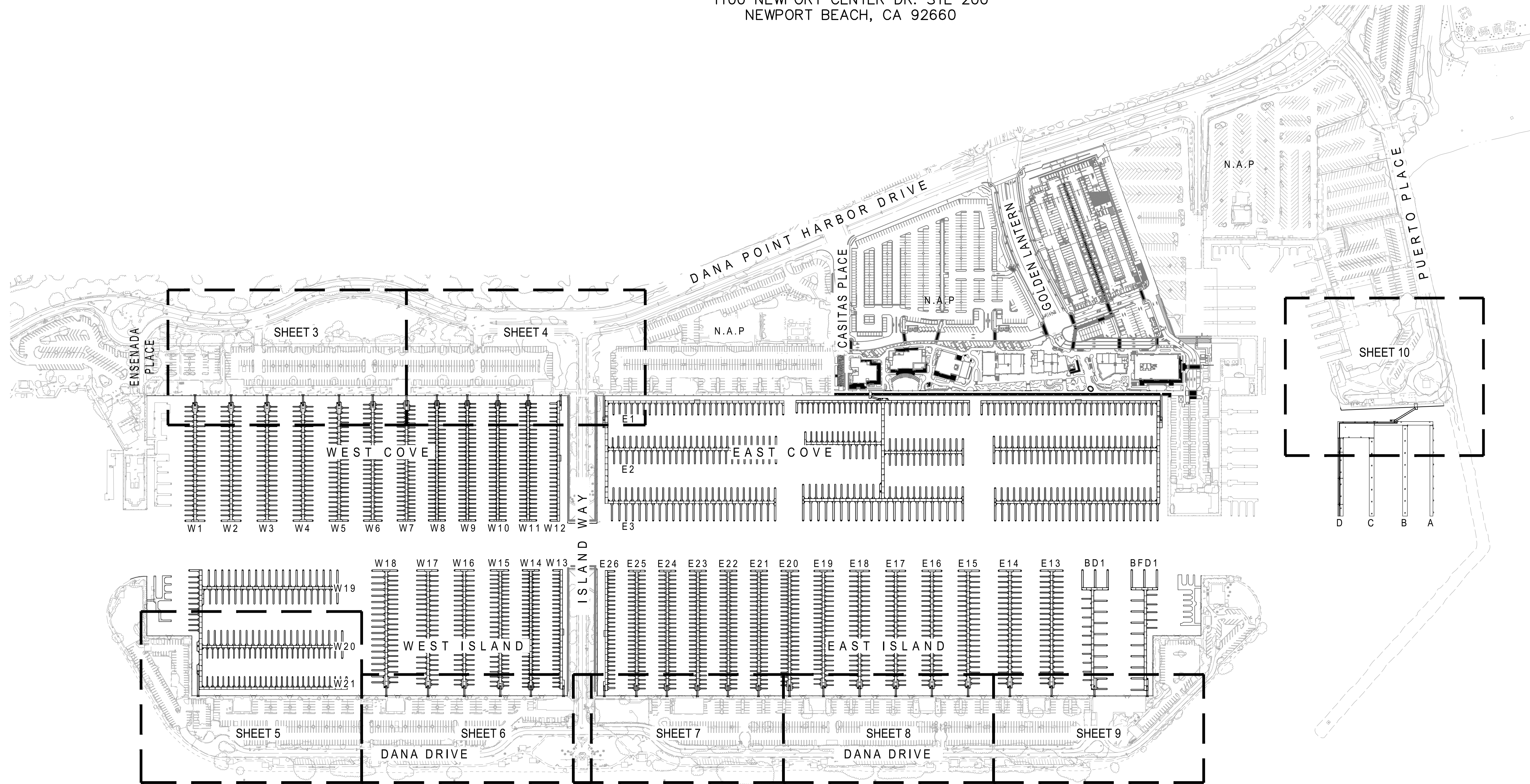
Revision: 1

Permits: PLB22-0127.R1

County of Orange - OC Public Works
OC Development Services
APPROVED

This set of plans and specifications must be kept on the job at all times. It is unlawful to make any changes or alterations to these plans without written permission from OC Public Works, OC Development Services of Orange County. The stamping of these plan specifications SHALL NOT be held to permit or be an approval of the violation of any provisions of any County Ordinance or State law.

Hadi Tabatabaee
BUILDING OFFICIAL



LEGEND

- S --- EXISTING SEWER
- ==== EXISTING STORM DRAIN
- W --- EXISTING WATER
- RW --- EXISTING RECYCLED WATER
- E --- EXISTING ELECTRIC
- CATV --- EXISTING COMMUNICATIONS
- G --- EXISTING GAS
- DW — PROPOSED DOMESTIC WATER (PRIVATE)
- FW — PROPOSED FIRE WATER
- SS — PROPOSED SEWER (PRIVATE)
- ⊙ PROPOSED SEWER MANHOLE
- --- PROPERTY LINE
- --- CENTERLINE

ABBREVIATIONS

- ℄ CENTERLINE
- DW DOMESTIC WATER
- ESMT EASEMENT
- (E) EXISTING
- FF FINISHED FLOOR
- FS FIRE SERVICE
- LAT LATERAL
- (P) PROPOSED
- ℄ PROPERTY LINE
- RCP REINFORCED CONCRETE PIPE
- SCWD SOUTH COAST WATER DISTRICT
- SFM SEWER FORCE MAIN
- SMH SEWER MANHOLE
- SS SANITARY SEWER
- OCPW ORANGE COUNTY PUBLIC WORKS

UNDERGROUND SERVICE ALERT

811 Call: TOLL FREE
1-800-422-4133

KNOW WHAT'S BELOW.
CALL BEFORE YOU DIG.
TWO WORKING DAYS BEFORE YOU DIG.

UNAUTHORIZED CHANGES & USES:

THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

ENGINEERS NOTE TO CONTRACTOR:

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITIES, PIPES, AND/OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL ASCERTAIN THE TRUE VERTICAL AND HORIZONTAL LOCATION OF THOSE UNDERGROUND UTILITIES TO BE USED AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY PUBLIC OR PRIVATE UTILITIES, SHOWN OR NOT SHOWN HEREON. IF THE CONTRACTOR ENCOUNTERS ANY DISCREPANCIES, CONFLICTS OR AREAS WHICH HE FEELS UNWORKABLE, HE SHALL NOTIFY THE GRADING ENGINEER IMMEDIATELY PRIOR TO CONTINUING OR DEVIATING FROM THIS PLAN.

NO.	DATE	REVISIONS	BY
10/07/22		REVISED WET UTILITY TRENCH AND SEWER LINES AND ADDED NOTE SHEET ON SHEET 2	CD

PREPARED UNDER THE SUPERVISION OF:

TAIT
Since 1964

701 N. Parkcenter Drive
Santa Ana, CA 92705
p: 714/560/8200 f: 714/560/8211
www.tait.com

Los Angeles Sacramento San Francisco Dallas Phoenix
Ontario San Diego Boise Denver Portland

JACOB VANDERVIS R.C.E. No. C46301 DATE 10/12/22

PROJECT NUMBER: ME0381

ENGINEER / DESIGNER: TAIT

PROJECT MANAGER: DM

CHECKED BY: JV

DANA POINT HARBOR REVITALIZATION

Harbor Drive
Dana Point, CA 92629

**PRIVATE DOMESTIC WATER AND SEWER PLAN
TITLE SHEET**

SCALE:	SEE ON SHEET
DRAWN BY:	TAIT
DATE:	10/12/2022
DRAWING:	ME0381
SHEET NO.:	1

K:\Drawings\ME\ME03810 - Dana Point Harbor\ENG\Construction Drawings\Warmo\Gangways Phase\Private Utilities\ME03810_INDEX_PH1_UT_PRIV.dwg PLOTTED: 10/12/2022 5:03:25 PM BY Chris Dickel

GENERAL NOTES

- THIS NOTE HEREIN INCORPORATES BY REFERENCE, THOSE GENERAL NOTES NUMBERED 1 THROUGH 24 INCLUSIVE OF OC PUBLIC WORKS STANDARD PLAN 1801, 2006 EDITION PLUS 2011 SUP.
- ALL WORK SHALL BE IN CONFORMANCE WITH CURRENT OC PUBLIC WORKS STD. PLANS AND STD. SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREEN BOOK OR APPROVED DEVIATION FOR STANDARD).
- THE DEVELOPER/CONTRACTOR SHALL HAVE A COPY OF THE CURRENT OC PUBLIC WORKS STANDARD PLANS ON THE CONSTRUCTION SITE AT ALL TIMES.
- THE DEVELOPER SHALL TELEPHONE OC PUBLIC WORKS CONSTRUCTION AT (714) 245-4550 AT LEAST 24 HOURS PRIOR TO STARTING CONSTRUCTION WORK SUBJECT TO OC PUBLIC WORKS INSPECTION.
- COUNTY APPROVED PLANS DO NOT RELIEVE THE CONTRACTOR/DEVELOPER FROM RESPONSIBILITY TO OBTAIN PUBLIC PROPERTY PERMITS, WHICH SHALL BE AVAILABLE ON THE JOB AT ALL TIMES WORK IS BEING ACCOMPLISHED IN THE PUBLIC RIGHT-OF-WAY.
- ALL CONCRETE CURB AND GUTTER FLOW LINES WITH LESS THAN 1% GRADE SHALL BE WATER TESTED PRIOR TO FINAL FINISHING TO INSURE PROPER DRAINAGE WITHOUT UNACCEPTABLE HIGH OR LOW SPOTS.
- ALL UTILITY TRENCH BACKFILL AND COMPACTION INSPECTION OUTSIDE THE LIMITS OF DEDICATED STREET RIGHT-OF-WAY SHALL BE PERFORMED BY OC PUBLIC WORKS.
- ALL DAMAGED CONCRETE SIDEWALKS OR CURBS SHALL BE SAWCUT TO THE NEAREST TRANSVERSE SCORE MARK OR ADJUSTABLE CONTROL JOINT OR WEAKENED PLANE JOINT AND REPLACED IN CONFORMANCE WITH THE APPLICABLE PROVISIONS OF OC PUBLIC WORKS STANDARD PLANS.
- DEVELOPER SHALL MAINTAIN ADJACENT STREETS IN A NEAT, CLEAN, DUST FREE AND SANITARY CONDITIONS AT ALL TIMES AND TO THE SATISFACTION OF THE COUNTY'S INSPECTOR. THE ADJACENT STREETS SHALL BE KEPT CLEAN OF DEBRIS, WITH DUST AND OTHER NUISANCE BEING CONTROLLED AT ALL TIMES. DEVELOPER SHALL BE RESPONSIBLE FOR ANY CLEAN UP ON ADJACENT STREETS AFFECTED BY HIS CONSTRUCTION. METHOD OF STREET CLEANING SHALL BE BY DRY SWEEPING OF ALL PAVED AREAS. NO STOCKPIILING OF BUILDING MATERIALS WITHIN THE COUNTY RIGHT-OF-WAY WITHOUT PERMISSION OF THE COUNTY'S INSPECTOR.
- PRIOR TO FINAL ACCEPTANCE OF STREET IMPROVEMENTS, ALL STREET PAVEMENT STRIPING AND STENCILING WITHIN THE PERIMETER OF THE CONSTRUCTION PROJECT WILL BE RESTORED TO A "LIKE NEW" CONDITION, IN A MANNER MEETING THE APPROVAL OF THE DIRECTOR, OC PUBLIC WORKS. ALL STRIPING AND STENCILING SHALL BE ACCORDING TO STANDARD PLAN NO.1801, NOTE 1B.
- TRAFFIC SHALL BE MAINTAINED AT ALL TIMES AND SHALL BE PROTECTED WITH ADEQUATE BARRICADES, LIGHTS, SIGNS AND WARNING DEVICES AS PER THE CURRENT STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, MANUAL OF TRAFFIC CONTROLS, AND TO THE DIRECTIONS OF THE COUNTY'S INSPECTOR.
- OC PUBLIC WORKS STANDARD PLANS SHALL TAKE PRECEDENCE OVER ANY CONFLICTS EXCEPT FOR STANDARD PLANS AFFECTING UTILITY COMPANIES, IF THEIR STANDARDS ARE MORE STRINGENT.
- ANY UTILITIES UNDER PAVED AREAS OF PRIVATE STREETS SHALL HAVE A MINIMUM OF 30" COVER AND DEVELOPER SHALL PROVIDE PRIVATE LABORATORY COMPACTION CERTIFICATION FOR ALL UNDERGROUND UTILITIES PRIOR TO PAVING. THE DEVELOPER SHALL SET UP A MEETING WITH THE INSPECTOR AND THE PRIVATE LABORATORY PRIOR TO ANY TESTING.
- A.C. PAVEMENT UNDER CARPORTS/ROOFS SHALL BE SLURRY SEALED IN ACCORDANCE WITH SECTION 302-4 "EMULSION - AGGREGATE SLURRY" OR THE STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION, 2009 EDITION, BEFORE FINAL ACCEPTANCE.
- ALL TRAFFIC MARKING AND STRIPING SHALL BE STENCILS THAT CONFORM TO THE CALIFORNIA DEPARTMENT OF TRANSPORTATION (D.O.T.) NON-METRIC STANDARD.
- NO CONCENTRATED FLOWS ACROSS ASPHALT PAVEMENT WITHOUT COUNTY'S INSPECTOR'S APPROVAL.
- SURVEY MONUMENTS SHALL BE PRESERVED AND REFERENCED BEFORE CONSTRUCTION, AND REPLACED AFTER CONSTRUCTION PURSUANT TO SECTION 8771 OF THE BUSINESS AND PROFESSIONS CODE.
- PRIOR TO ORDERING ANY CONCRETE OR CONCRETE PRODUCTS FOR USE ON THIS PROJECT, SOIL SULFATE TESTS SHALL BE PERFORMED MEETING THE APPROVAL OF THE OC PUBLIC WORKS MATERIALS LABORATORY.
- CONCRETE ITEMS SHALL MEET THE REQUIREMENTS OF THE INTENT OF SECTION 201.1.1.3. "CONCRETE SPECIFIED BY SPECIAL EXPOSURE" OF THE GREEN BOOK, UNLESS OTHERWISE APPROVED BY THE OC PUBLIC WORKS MATERIALS LABORATORY.
- ALL STREET SECTIONS TO BE DETERMINED BY OC PUBLIC WORKS MATERIAL ENGINEER. ALL REPORTS FOR SAMPLING OF STREETS SHALL BE MADE TO COUNTY INSPECTION AND ONLY AFTER GRADE RELEASE AND PRIOR TO ANY UTILITY REPLACEMENT WITHIN STREET TEMPLATE.
- ALL WET AND DRY UTILITIES ARE NOT TO BE INSTALLED PRIOR TO CURB AND GUTTER CONSTRUCTION UNLESS REQUESTED IN WRITING AND APPROVED PRIOR TO INSTALLATION BY COUNTY.
- SIDEWALK SHALL BE CLEAR OF ALL VERTICAL OBSTRUCTIONS UNLESS APPROVED BY COUNTY.
- WHERE BACKFILL IS TO BE PLACED UNDER A PREVIOUSLY INSTALLED CONDUIT, SLURRY BACKFILL WILL BE 450-C-2000 CONCRETE.
- LIGHTING SHALL BE SHIELDED OR DIRECTED AWAY FROM RMV OPEN SPACE HABITAT AREAS THROUGH THE USE OF LOW-SODIUM OR SIMILAR INTENSITY LIGHTS, LIGHT SHIELDS, NATIVE SHRUBS, BERMS AND OTHER SHIELDING METHODS.
- ALL STREET SECTIONS TO BE DETERMINED BY OC PUBLIC WORKS MATERIALS LAB. ALL REPORTS FOR SAMPLING OF STREET SHALL MADE TO THE COUNTY INSPECTOR AND ONLY AFTER GRADE RELEASE AND PRIOR TO ANY UTILITY PLACEMENT WITHIN THE STREET TEMPLATE. REQUESTS FOR SAMPLING CAN BE MADE THROUGH OC PUBLIC WORKS INSPECTION.

NOTICE TO CONTRACTOR

THE EXISTENCE AND LOCATIONS OF ANY UNDERGROUND UTILITIES, PIPES AND/OR STRUCTURES ETC. SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE PUBLIC RECORDS. THOSE SHOWN ON THE RECORDS EXAMINED, ARE INDICATED WITH THEIR APPROXIMATE LOCATION AND EXTENT. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL ASCERTAIN THE TRUE VERTICAL AND HORIZONTAL LOCATION AND SIZE OF ANY UNDERGROUND UTILITIES TO BE USED AND SHALL BE RESPONSIBLE FOR DAMAGE TO ANY PUBLIC OR PRIVATE UTILITIES, SHOWN OR NOT SHOWN HEREON.

THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER, THE ENGINEER, AND THE CITY OF TUSTIN HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM SOLE NEGLIGENCE OF OWNER, ENGINEER, OR THE CITY OF TUSTIN.

THE CONTRACTOR AND ALL ITS SUBCONTRACTORS PERFORMING WORK SHOWN ON OR RELATED TO THESE PLANS SHALL CONDUCT THEIR OPERATIONS SO THAT ALL EMPLOYEES ARE PROVIDED A SAFE PLACE TO WORK AND THE PUBLIC IS PROTECTED. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL COMPLY WITH THE "OCCUPATIONAL SAFETY AND HEALTH REGULATIONS" OF THE U.S. DEPARTMENT OF LABOR, AND THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL RELATIONS' "CONSTRUCTION SAFETY ORDERS".

THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES OR STRUCTURES SHOWN AND ANY OTHER UTILITIES OR STRUCTURES FOUND AT THE SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER AND OWNERS OF ANY DISCOVERED UNMAPPED UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING WORK. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND SHALL REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

NOTE:
ALL SIGNS REQUIRE SEPARATE PERMIT AND PLAN CHECK APPLICATION.

TRENCHING NOTE

THERE SHALL BE NO TRENCHES OR EXCAVATIONS 5 FEET OR MORE IN DEPTH INTO WHICH A PERSON IS REQUIRED TO DESCEND, OR OBTAIN PERMIT FROM STATE OF CALIFORNIA, DIVISION OF OCCUPATIONAL SAFETY AND HEALTH (CAL/OSHA). THIS PERMIT AND ANY OTHER SAFETY PERMIT SHALL BE OBTAIN PRIOR TO COMMENCE OF ANY WORK.

NPDES NOTES

- IN THE CASE OF EMERGENCY, CALL DAVID STELTER AT WORK PHONE #: (949) 795-8626
- SEDIMENT FROM AREAS DISTURBED BY CONSTRUCTION SHALL BE RETAINED ON SITE USING STRUCTURAL CONTROLS TO THE MAXIMUM EXTENT PRACTICABLE.
- STOCKPILES OF SOIL SHALL BE PROPERLY CONTAINED TO MINIMIZE SEDIMENT TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES OR ADJACENT PROPERTIES VIA RUNOFF, VEHICLE TACKING, OR WIND.
- APPROPRIATE BMP'S FOR CONSTRUCTION-RELATED MATERIALS, WASTES, SPILLS SHALL BE IMPLEMENTED TO MINIMIZE TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES, OR ADJOINING PROPERTIES BY WIND OR RUNOFF.
- RUNOFF FROM EQUIPMENT AND VEHICLE WASHING SHALL BE CONTAINED AT CONSTRUCTION SITES UNLESS TREATED TO REDUCE OR REMOVE SEDIMENT AND OTHER POLLUTANTS.
- ALL CONSTRUCTION CONTRACTOR AND SUBCONTRACTOR PERSONNEL ARE TO BE MADE AWARE OF THE REQUIRED BEST MANAGEMENT PRACTICES AND GOOD HOUSEKEEPING MEASURES FOR THE PROJECT SITE AND ANY ASSOCIATED CONSTRUCTION STAGING AREAS.
- AT THE END OF EACH DAY OF CONSTRUCTION ACTIVITY ALL CONSTRUCTION DEBRIS AND WASTE MATERIALS SHALL BE COLLECTED AND PROPERLY DISPOSED IN TRASH OR RECYCLE BINS.
- CONSTRUCTION SITES SHALL BE MAINTAINED IN SUCH A CONDITION THAT AN ANTICIPATED STORM DOES NOT CARRY WASTES OR POLLUTANTS OFF THE SITE. DISCHARGES OF MATERIAL OTHER THAN STORM WATER ONLY WHEN NECESSARY FOR PERFORMANCE AND COMPLETION OF CONSTRUCTION PRACTICES AND WHERE THEY DO NOT CAUSE OR CONTRIBUTE TO A VIOLATION OF ANY WATER QUALITY STANDARD; CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR NUISANCE; OR CONTAIN A HAZARDOUS SUBSTANCE IN A QUANTITY REPORTABLE UNDER FEDERAL REGULATIONS 40 CFR PARTS 117 AND 302.
- POTENTIAL POLLUTANTS INCLUDE BUT ARE NOT LIMITED TO: SOLID OR LIQUID CHEMICAL SPILLS; WASTES FROM PAINTS, STAINS, SEALANTS, GLUES, LIMES, PESTICIDES, HERBICIDES, WOOD PRESERVATIVES AND SOLVENTS; ASBESTOS FIBERS, PAINT FLAKES OR STUCCO FRAGMENTS; FUELS, OILS, LUBRICANTS, AND HYDRAULIC, RADIATOR OR BATTERY FLUIDS; FERTILIZERS, VEHICLE/EQUIPMENT WASH WATER AND CONCRETE WASH WATER; CONCRETE, DETERGENT OR FLOATABLE WASTES; WASTES FROM ANY ENGINE/EQUIPMENT STEAM CLEANING OR CHEMICAL DEGREASING AND SUPERCHLORINATED POTABLE WATER LINE FLUSHING. DURING CONSTRUCTION, PERMITTEE SHALL DISPOSE OF SUCH MATERIALS IN A SPECIFIED AND CONTROLLED TEMPORARY AREA ON-SITE, PHYSICALLY SEPARATED FROM POTENTIAL STORM WATER RUNOFF, WITH ULTIMATE DISPOSAL IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REQUIREMENTS.
- DEWATERING OF CONTAMINATED GROUNDWATER OR DISCHARGING CONTAMINATED SOILS VIA SURFACE EROSION IS PROHIBITED. DEWATERING OF NON-CONTAMINATED GROUNDWATER REQUIRES A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT FROM THE RESPECTIVE STATE REGIONAL WATER QUALITY CONTROL BOARD.
- GRADED AREAS ON THE PERMITTED AREA PERIMETER MUST DRAIN AWAY FROM THE FACE OF SLOPES AT THE CONCLUSION OF EACH WORKING DAY. DRAINAGE IS TO BE DIRECTED TOWARD DESILTING FACILITIES.
- THE PERMITTEE AND CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATER CREATES A HAZARDOUS CONDITION.
- THE PERMITTEE AND CONTRACTOR SHALL INSPECT THE EROSION CONTROL WORK AND INSURE THAT THE WORK IS IN ACCORDANCE WITH THE APPROVED PLANS.
- THE PERMITTEE SHALL NOTIFY ALL GENERAL CONTRACTORS, SUBCONTRACTORS, MATERIAL SUPPLIERS, LESSEES, AND PROPERTY OWNERS: THAT DUMPING OF CHEMICALS INTO THE STORM DRAIN SYSTEM OR THE WATERSHED IS PROHIBITED.
- EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. NECESSARY MATERIALS SHALL BE AVAILABLE ON SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
- ALL REMOVABLE EROSION PROTECTIVE DEVICES SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN THE 5-DAY RAIN PROBABILITY FORECAST EXCEEDS 40%.
- SEDIMENTS FROM AREAS DISTURBED BY CONSTRUCTION SHALL BE RETAINED ON SITE USING AN EFFECTIVE COMBINATION OF EROSION AND SEDIMENT CONTROLS TO THE MAXIMUM EXTENT PRACTICABLE, AND STOCKPILES OF SOIL SHALL BE PROPERLY CONTAINED TO MINIMIZE SEDIMENT TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES OR ADJACENT PROPERTIES VIA RUNOFF, VEHICLE TRACKING, OR WIND.
- APPROPRIATE BMP'S FOR CONSTRUCTION-RELATED MATERIALS, WASTES, SPILLS OR RESIDUES SHALL BE IMPLEMENTED AND RETAINED ON SITE TO MINIMIZE TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES, OR ADJOINING PROPERTY BY WIND OR RUNOFF.

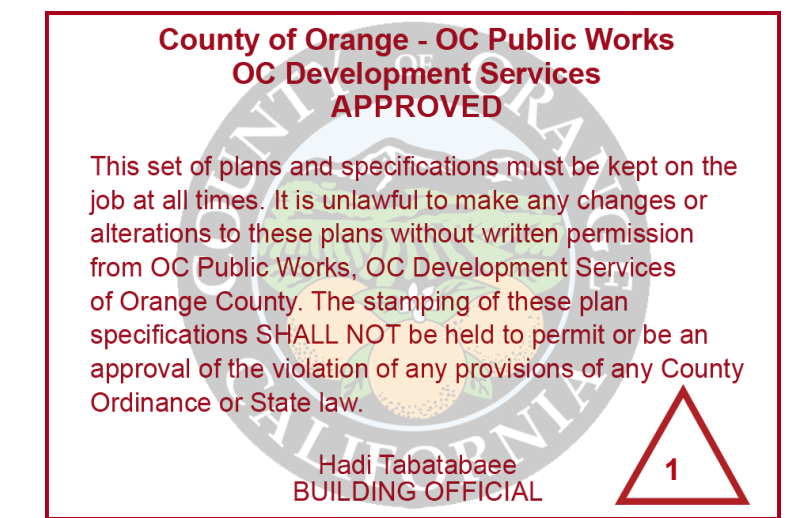
GENERAL NOTE TO CONTRACTOR

EXISTING UTILITY LOCATIONS HAVE NOT BEEN VERIFIED. CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING UTILITIES AND INFORM ENGINEER OF ANY DISCREPANCIES OR CHANGES NECESSARY TO THE PROPOSED UTILITIES. CONTRACTOR TO REPAIR ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION OF PROPOSED UTILITIES.

Zoning: CanningK 11/2/2022

Building&Safety: Roshanak Amirazizi 11/2/2022

Revision: 1
Permits: PLB22-0127.R1



		PREPARED UNDER THE SUPERVISION OF:		701 N. Parkcenter Drive Santa Ana, CA 92705		GEOTECHNICAL ENGINEER SEAL		PROJECT NUMBER: ME0381		DANA POINT HARBOR REVITALIZATION				SCALE: SEE ON SHEET	
				p: 714/560/8200 f: 714/560/8211 www.tait.com				ENGINEER / DESIGNER: TAIT						Harbor Drive Dana Point, CA 92629	
				Los Angeles Sacramento San Francisco Dallas Phoenix Ontario San Diego Boise Denver Portland				PROJECT MANAGER: DM		PRIVATE DOMESTIC WATER AND SEWER PLAN NOTES		DATE: 10/12/2022			
10/07/22		ADDED NOTE SHEET						CHECKED BY: JV						DRAWING: ME0381	
NO.		DATE		DESCRIPTION		BY						SHEET NO.: 2			
				REVISIONS											

**County of Orange - OC Public Works
OC Development Services
APPROVED**

This set of plans and specifications must be kept on the job at all times. It is unlawful to make any changes or alterations to these plans without written permission from OC Public Works, OC Development Services of Orange County. The stamping of these plan specifications SHALL NOT be held to permit or be an approval of the violation of any provisions of any County Ordinance or State law.

Hadi Tabatabaee
BUILDING OFFICIAL

CONSTRUCTION NOTES:

- 1 PROTECT IN PLACE. ITEM PER PLAN.
- 2 CONTRACTOR TO REPLACE SURFACE IN KIND.
- 3 WHERE TRENCH ENCOUNTERS PCC, CONTRACTOR TO MATCH TO EXISTING PCC PAVEMENT, AT 5" PCC SIDEWALK PER CITY OF DANA POINT STD. PLAN DP-101.
- 4 REMOVE AND REPLACE PCC STEPS IN KIND (5.5" RISERS).
- 5 REMOVE PULLBOX PER SEPARATE PLAN.
- 6 REMOVE AND RELOCATE FIRE STRUCTURE. FIRE STRUCTURE TO REMAIN SERVICING EXISTING FACILITIES.

DOMESTIC WATER NOTES:

- 1 FURNISH AND INSTALL 2" PVC SCH 80 WATER LINE, FITTINGS AND BENDS. TRENCH AND BEDDING PER DETAIL ON SHEET 9 AND GEOTECHNICAL RECOMMENDATIONS.
- 2 FURNISH AND INSTALL 3" PVC SCH 80 WATER LINE, FITTINGS AND BENDS. TRENCH AND BEDDING PER DETAIL ON SHEET 9 AND GEOTECHNICAL RECOMMENDATIONS.
- 3 TRENCHING AND BEDDING TO BE MODIFIED PER DETAIL ON SHEET 9 AND GEOTECHNICAL RECOMMENDATIONS WHERE GROUNDWATER IS ENCOUNTERED.
- 4 2" WATER METER CONNECTION TO WATER MAIN PER SEPARATE SCWD PLAN AND PERMIT.
- 5 3" WATER METER CONNECTION TO WATER MAIN PER SEPARATE SCWD PLAN AND PERMIT.
- 6 INSTALL 2" BACKFLOW PREVENTER PER SCWD STD. DWG. W-14 ON SHEET 12.
- 7 INSTALL 3" BACKFLOW PREVENTER PER SCWD STD. DWG. W-15 ON SHEET 12.
- 8 INSTALL TEMPORARY CAP UNTIL CONNECTING TO WATER LINE AT GANGWAY. CONTRACTOR TO COORDINATE CONNECTION TIMING WITH BELLINGHAM MARINE. SEE MARINA UTILITY PLAN FOR WATER LINE VALVE INSTALLATION.

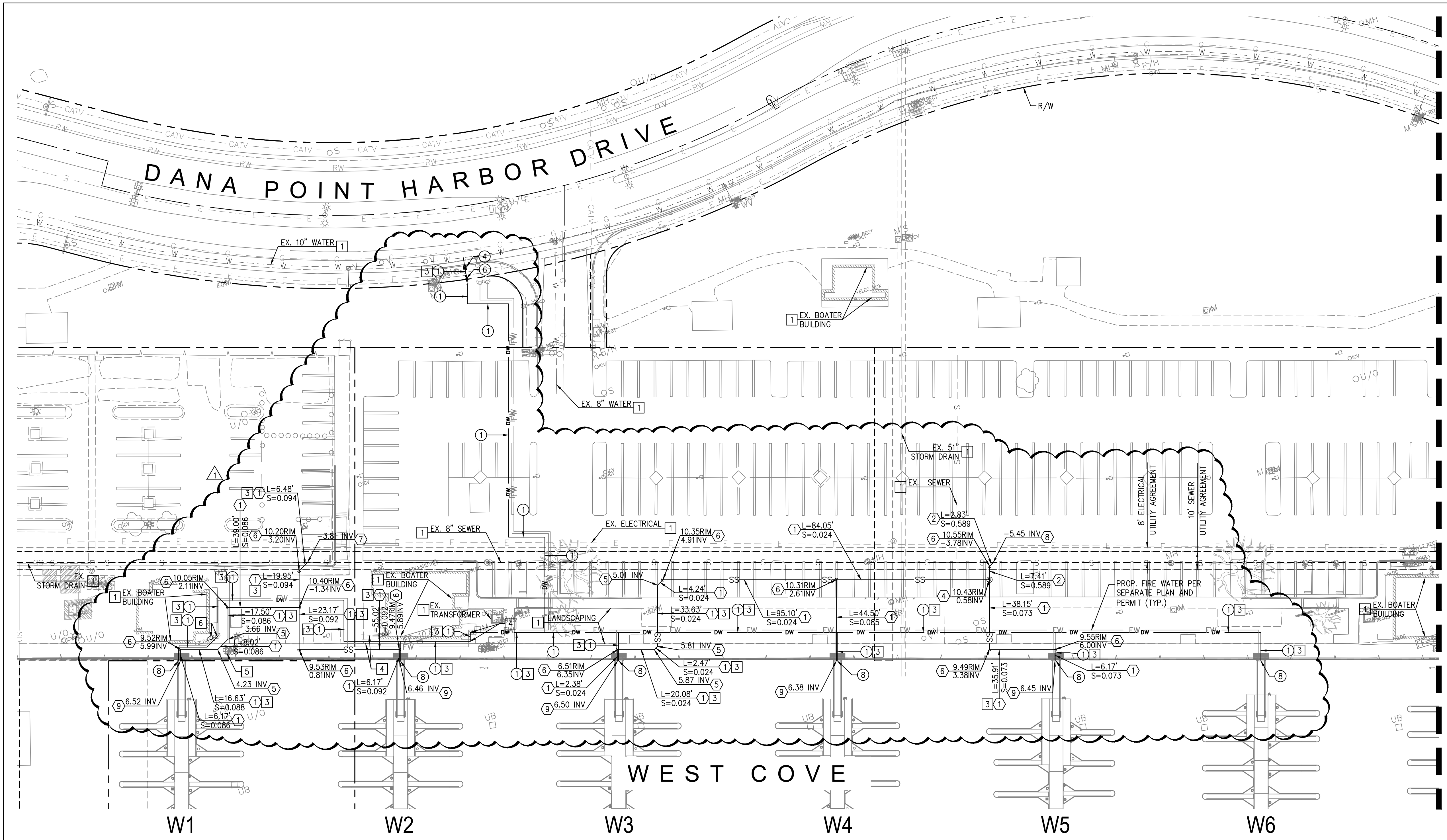
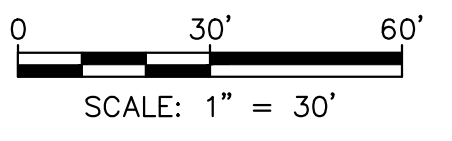
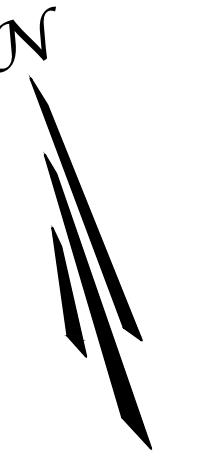
SEWER NOTES:

- 1 FURNISH AND INSTALL 4" PVC (SDR 35) SEWER LINE, FITTINGS AND BENDS. TRENCH AND BEDDING PER DETAIL ON SHEET 9 AND GEOTECHNICAL RECOMMENDATIONS.
- 2 FURNISH AND INSTALL 6" PVC (SDR 35) SEWER LINE, FITTINGS AND BENDS. TRENCH AND BEDDING PER DETAIL ON SHEET 9 AND GEOTECHNICAL RECOMMENDATIONS.
- 3 TRENCHING AND BEDDING TO BE MODIFIED PER DETAIL ON SHEET 9 AND GEOTECHNICAL RECOMMENDATIONS WHERE GROUNDWATER IS ENCOUNTERED.
- 4 CONSTRUCT SEWER MANHOLE PER SCWD STD. DWG. S-1 ON SHEET 13. ALL MANHOLES SHALL BE LINED USING LINER FROM APPROVED MATERIAL LIST AND COMPOSITE LIDS.
- 5 INSTALL 45° BEND.
- 6 INSTALL SEWER CLEANOUT PER SCWD STD. DWG. S-10 ON SHEET 14.
- 7 CONNECT 4" SEWER LATERAL TO EXISTING SEWER LINE PER SCWD STD. DWG. S-6 ON SHEET 14.
- 8 CONNECT 6" SEWER LATERAL TO EXISTING SEWER LINE PER SCWD STD. DWG. S-6 ON SHEET 14.
- 9 INSTALL TEMPORARY CAP UNTIL CONNECTING TO SEWER LINE AT GANGWAY. CONTRACTOR TO COORDINATE CONNECTION TIMING WITH BELLINGHAM MARINE.

NOTE TO CONTRACTOR:

IT IS THE CONTRACTOR'S RESPONSIBILITY TO REPAIR ANY UTILITIES THAT ARE IN CONFLICT WITH PROPOSED IMPROVEMENTS. CONTRACTOR TO REPAIR, CUT, AND CAP ANY DAMAGED LANDSCAPE OR IRRIGATION. CONTRACTOR TO PROTECT ALL EXISTING TREES.

EXISTING UTILITY LOCATIONS HAVE NOT BEEN VERIFIED. CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING UTILITIES AND INFORM ENGINEER OF ANY DISCREPANCIES OR CHANGES NECESSARY TO THE PROPOSED UTILITIES. CONTRACTOR TO REPAIR ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION OF PROPOSED UTILITIES.



MATCHLINE - SEE SHEET 4

NO.	DATE	DESCRIPTION	CD	BY
1	10/07/22	REVISED WET UTILITY TRENCH AND SEWER LINES	CD	
REVISIONS				

PREPARED UNDER THE SUPERVISION OF:

TAIT
Since 1964

701 N. Parkcenter Drive
Santa Ana, CA 92705
p: 714/560/8200 f: 714/560/8211
www.tait.com

Los Angeles Sacramento San Francisco Dallas Phoenix
Ontario San Diego Boise Denver Portland

JACOB VANDERVIS R.C.E. No. C46301 DATE 10/12/22

GEOTECHNICAL ENGINEER SEAL

PROJECT NUMBER: ME0381

ENGINEER / DESIGNER: TAIT

PROJECT MANAGER: DM

CHECKED BY: JV

DANA POINT HARBOR REVITALIZATION

Harbor Drive
Dana Point, CA 92629

**PRIVATE DOMESTIC WATER AND SEWER PLAN
WEST COVE PRIVATE UTILITY PLAN**

SCALE:	SEE ON SHEET
DRAWN BY:	TAIT
DATE:	10/12/2022
DRAWING:	ME0381
SHEET NO.:	3

Zoning: CanningK 11/2/2022
 Building&Safety: Roshanak Amirazizi 11/2/2022
 Revision: 1
 Permits: PLB22-0127.R1

**County of Orange - OC Public Works
 OC Development Services
 APPROVED**

This set of plans and specifications must be kept on the job at all times. It is unlawful to make any changes or alterations to these plans without written permission from OC Public Works, OC Development Services of Orange County. The stamping of these plan specifications SHALL NOT be held to permit or be an approval of the violation of any provisions of any County Ordinance or State law.

Hadi Tabatabaee
 BUILDING OFFICIAL

CONSTRUCTION NOTES:

- 1 PROTECT IN PLACE. ITEM PER PLAN.
- 2 CONTRACTOR TO REPLACE SURFACE IN KIND.
- 3 WHERE TRENCH ENCOUNTERS PCC, CONTRACTOR TO MATCH TO EXISTING PCC PAVEMENT, AT 5" PCC SIDEWALK PER CITY OF DANA POINT STD. PLAN DP-101.
- 4 REMOVE AND REPLACE PCC STEPS IN KIND (5.5" RISERS).
- 5 REMOVE PULLBOX PER SEPARATE PLAN.

DOMESTIC WATER NOTES:

- 1 FURNISH AND INSTALL 2" PVC SCH 80 WATER LINE, FITTINGS AND BENDS. TRENCH AND BEDDING PER DETAIL ON SHEET 9 AND GEOTECHNICAL RECOMMENDATIONS.
- 2 FURNISH AND INSTALL 3" PVC SCH 80 WATER LINE, FITTINGS AND BENDS. TRENCH AND BEDDING PER DETAIL ON SHEET 9 AND GEOTECHNICAL RECOMMENDATIONS.
- 3 TRENCHING AND BEDDING TO BE MODIFIED PER DETAIL ON SHEET 9 AND GEOTECHNICAL RECOMMENDATIONS WHERE GROUNDWATER IS ENCOUNTERED.
- 4 2" WATER METER CONNECTION TO WATER MAIN PER SEPARATE SCWD PLAN AND PERMIT.
- 5 3" WATER METER CONNECTION TO WATER MAIN PER SEPARATE SCWD PLAN AND PERMIT.
- 6 INSTALL 2" BACKFLOW PREVENTER PER SCWD STD. DWG. W-14 ON SHEET 12.
- 7 INSTALL 3" BACKFLOW PREVENTER PER SCWD STD. DWG. W-15 ON SHEET 12.
- 8 INSTALL TEMPORARY CAP UNTIL CONNECTING TO WATER LINE AT GANGWAY. CONTRACTOR TO COORDINATE CONNECTION TIMING WITH BELLINGHAM MARINE. SEE MARINA UTILITY PLAN FOR WATER LINE VALVE INSTALLATION.

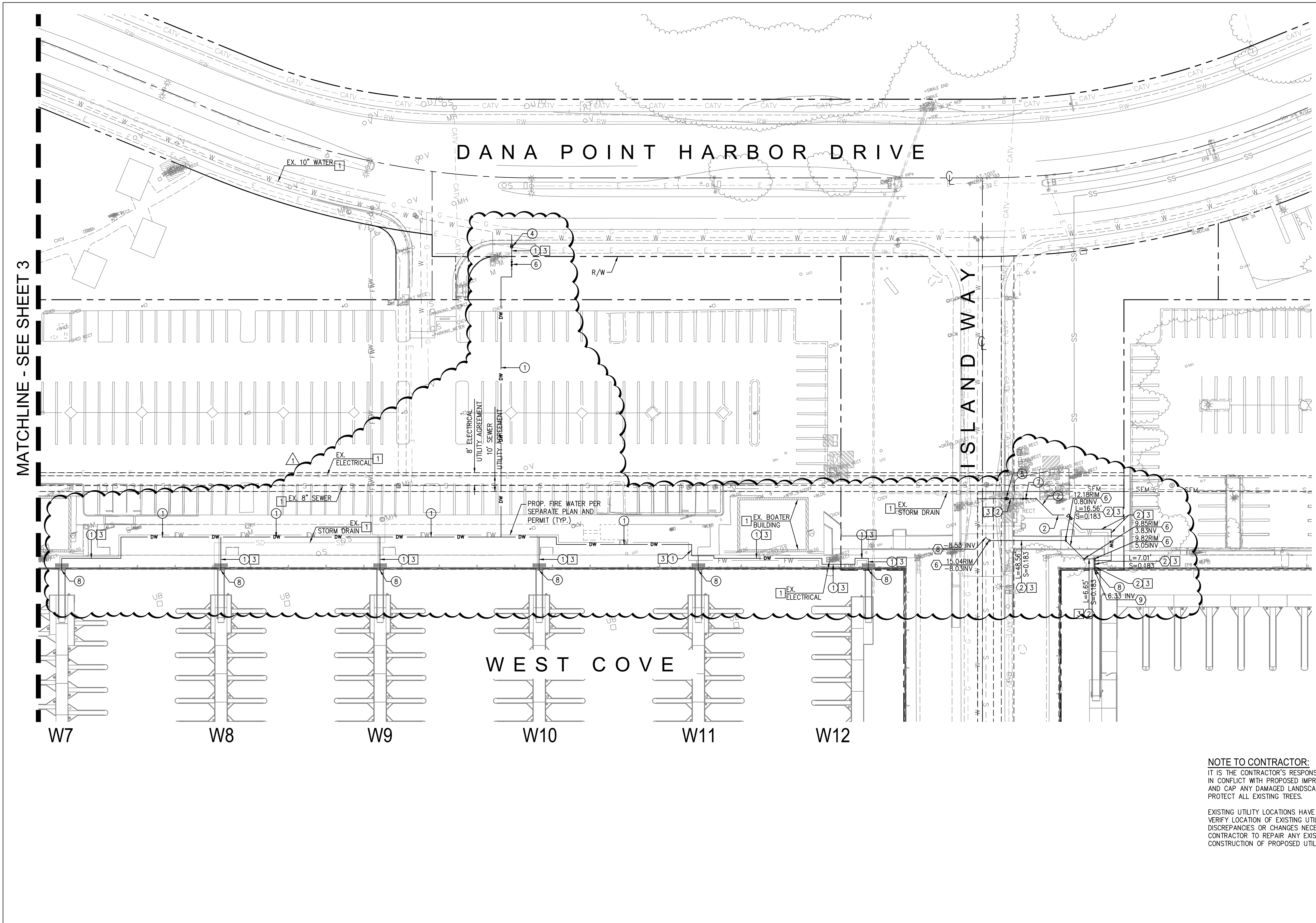
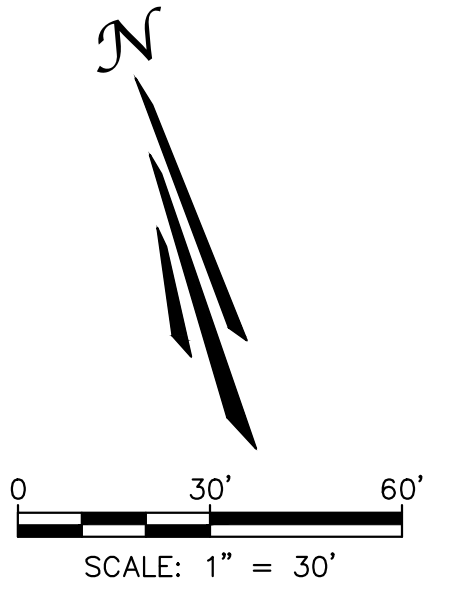
SEWER NOTES:

- 1 FURNISH AND INSTALL 4" PVC (SDR 35) SEWER LINE, FITTINGS AND BENDS. TRENCH AND BEDDING PER DETAIL ON SHEET 9 AND GEOTECHNICAL RECOMMENDATIONS.
- 2 FURNISH AND INSTALL 6" PVC (SDR 35) SEWER LINE, FITTINGS AND BENDS. TRENCH AND BEDDING PER DETAIL ON SHEET 9 AND GEOTECHNICAL RECOMMENDATIONS.
- 3 TRENCHING AND BEDDING TO BE MODIFIED PER DETAIL ON SHEET 9 AND GEOTECHNICAL RECOMMENDATIONS WHERE GROUNDWATER IS ENCOUNTERED.
- 4 CONSTRUCT SEWER MANHOLE PER SCWD STD. DWG. S-1 ON SHEET 13. ALL MANHOLES SHALL BE LINED USING LINER FROM APPROVED MATERIAL LIST AND COMPOSITE LIDS.
- 5 INSTALL 45° BEND.
- 6 INSTALL SEWER CLEANOUT PER SCWD STD. DWG. S-10 ON SHEET 14.
- 7 CONNECT 4" SEWER LATERAL TO EXISTING SEWER LINE PER SCWD STD. DWG. S-6 ON SHEET 14.
- 8 CONNECT 6" SEWER LATERAL TO EXISTING SEWER LINE PER SCWD STD. DWG. S-6 ON SHEET 14.
- 9 INSTALL TEMPORARY CAP UNTIL CONNECTING TO SEWER LINE AT GANGWAY. CONTRACTOR TO COORDINATE CONNECTION TIMING WITH BELLINGHAM MARINE.

NOTE TO CONTRACTOR:

IT IS THE CONTRACTOR'S RESPONSIBILITY TO REPAIR ANY UTILITIES THAT ARE IN CONFLICT WITH PROPOSED IMPROVEMENTS. CONTRACTOR TO REPAIR, CUT, AND CAP ANY DAMAGED LANDSCAPE OR IRRIGATION. CONTRACTOR TO PROTECT ALL EXISTING TREES.

EXISTING UTILITY LOCATIONS HAVE NOT BEEN VERIFIED. CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING UTILITIES AND INFORM ENGINEER OF ANY DISCREPANCIES OR CHANGES NECESSARY TO THE PROPOSED UTILITIES. CONTRACTOR TO REPAIR ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION OF PROPOSED UTILITIES.



NO.	DATE	DESCRIPTION	CD	BY
10/07/22	REVISED WET UTILITY TRENCH AND SEWER LINES		CD	
REVISIONS				

PREPARED UNDER THE SUPERVISION OF:
TAIT
 Since 1964
 Los Angeles Sacramento San Francisco Dallas Phoenix
 Ontario San Diego Boise Denver Portland

701 N. Parkcenter Drive
 Santa Ana, CA 92705
 p: 714/560/8200 f: 714/560/8211
 www.tait.com

JACOB VANDERVIS R.C.E. No. C46301 DATE 10/12/22

GEOTECHNICAL ENGINEER SEAL

PROJECT NUMBER: ME0381

ENGINEER / DESIGNER: TAIT

PROJECT MANAGER: DM

CHECKED BY: JV

DANA POINT HARBOR REVITALIZATION

Harbor Drive
 Dana Point, CA 92629

PRIVATE DOMESTIC WATER AND SEWER PLAN
 WEST COVE PRIVATE UTILITY PLAN

SCALE: SEE ON SHEET

DRAWN BY: TAIT

DATE: 10/12/2022

DRAWING: ME0381

SHEET NO.: 4

W19 - W21

Zoning: CanningK 11/2/2022

Building&Safety: Roshanak Amirazizi 11/2/2022

Revision: 1

Permits: PLB22-0127.R1

**County of Orange - OC Public Works
OC Development Services
APPROVED**

This set of plans and specifications must be kept on the job at all times. It is unlawful to make any changes or alterations to these plans without written permission from OC Public Works, OC Development Services of Orange County. The stamping of these plan specifications SHALL NOT be held to permit or be an approval of the violation of any provisions of any County Ordinance or State law.

Hadi Tabatabaee
BUILDING OFFICIAL

CONSTRUCTION NOTES:

- 1 PROTECT IN PLACE. ITEM PER PLAN.
- 2 CONTRACTOR TO REPLACE SURFACE IN KIND.
- 3 WHERE TRENCH ENCOUNTERS PCC, CONTRACTOR TO MATCH TO EXISTING PCC PAVEMENT, AT 5" PCC SIDEWALK PER CITY OF DANA POINT STD. PLAN DP-101.
- 4 REMOVE AND REPLACE PCC STEPS IN KIND (5.5" RISERS).
- 5 REMOVE PULLBOX PER SEPARATE PLAN.

DOMESTIC WATER NOTES:

- 1 FURNISH AND INSTALL 2" PVC SCH 80 WATER LINE, FITTINGS AND BENDS. TRENCH AND BEDDING PER DETAIL ON SHEET 9 AND GEOTECHNICAL RECOMMENDATIONS.
- 2 FURNISH AND INSTALL 3" PVC SCH 80 WATER LINE, FITTINGS AND BENDS. TRENCH AND BEDDING PER DETAIL ON SHEET 9 AND GEOTECHNICAL RECOMMENDATIONS.
- 3 TRENCHING AND BEDDING TO BE MODIFIED PER DETAIL ON SHEET 9 AND GEOTECHNICAL RECOMMENDATIONS WHERE GROUNDWATER IS ENCOUNTERED.
- 4 2" WATER METER CONNECTION TO WATER MAIN PER SEPARATE SCWD PLAN AND PERMIT.
- 5 3" WATER METER CONNECTION TO WATER MAIN PER SEPARATE SCWD PLAN AND PERMIT.
- 6 INSTALL 2" BACKFLOW PREVENTER PER SCWD STD. DWG. W-14 ON SHEET 12.
- 7 INSTALL 3" BACKFLOW PREVENTER PER SCWD STD. DWG. W-15 ON SHEET 12.
- 8 INSTALL TEMPORARY CAP UNTIL CONNECTING TO WATER LINE AT GANGWAY. CONTRACTOR TO COORDINATE CONNECTION TIMING WITH BELLINGHAM MARINE. SEE MARINA UTILITY PLAN FOR WATER LINE VALVE INSTALLATION.

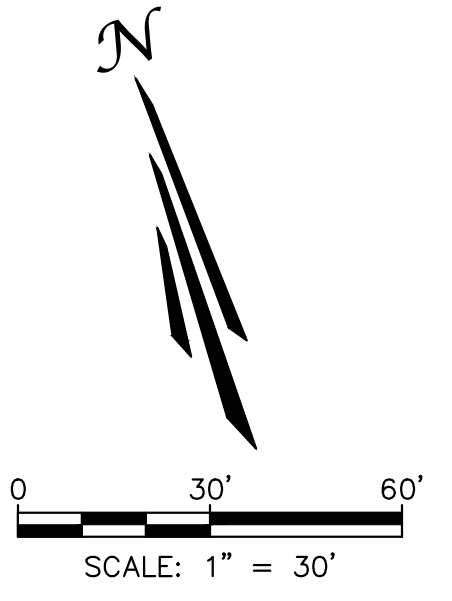
SEWER NOTES:

- 1 FURNISH AND INSTALL 4" PVC (SDR 35) SEWER LINE, FITTINGS AND BENDS. TRENCH AND BEDDING PER DETAIL ON SHEET 9 AND GEOTECHNICAL RECOMMENDATIONS.
- 2 FURNISH AND INSTALL 6" PVC (SDR 35) SEWER LINE, FITTINGS AND BENDS. TRENCH AND BEDDING PER DETAIL ON SHEET 9 AND GEOTECHNICAL RECOMMENDATIONS.
- 3 TRENCHING AND BEDDING TO BE MODIFIED PER DETAIL ON SHEET 9 AND GEOTECHNICAL RECOMMENDATIONS WHERE GROUNDWATER IS ENCOUNTERED.
- 4 CONSTRUCT SEWER MANHOLE PER SCWD STD. DWG. S-1 ON SHEET 13. ALL MANHOLES SHALL BE LINED USING LINER FROM APPROVED MATERIAL LIST AND COMPOSITE LIDS.
- 5 INSTALL 45° BEND.
- 6 INSTALL SEWER CLEANOUT PER SCWD STD. DWG. S-10 ON SHEET 14.
- 7 CONNECT 4" SEWER LATERAL TO EXISTING SEWER LINE PER SCWD STD. DWG. S-6 ON SHEET 14.
- 8 CONNECT 6" SEWER LATERAL TO EXISTING SEWER LINE PER SCWD STD. DWG. S-6 ON SHEET 14.
- 9 INSTALL TEMPORARY CAP UNTIL CONNECTING TO SEWER LINE AT GANGWAY. CONTRACTOR TO COORDINATE CONNECTION TIMING WITH BELLINGHAM MARINE.

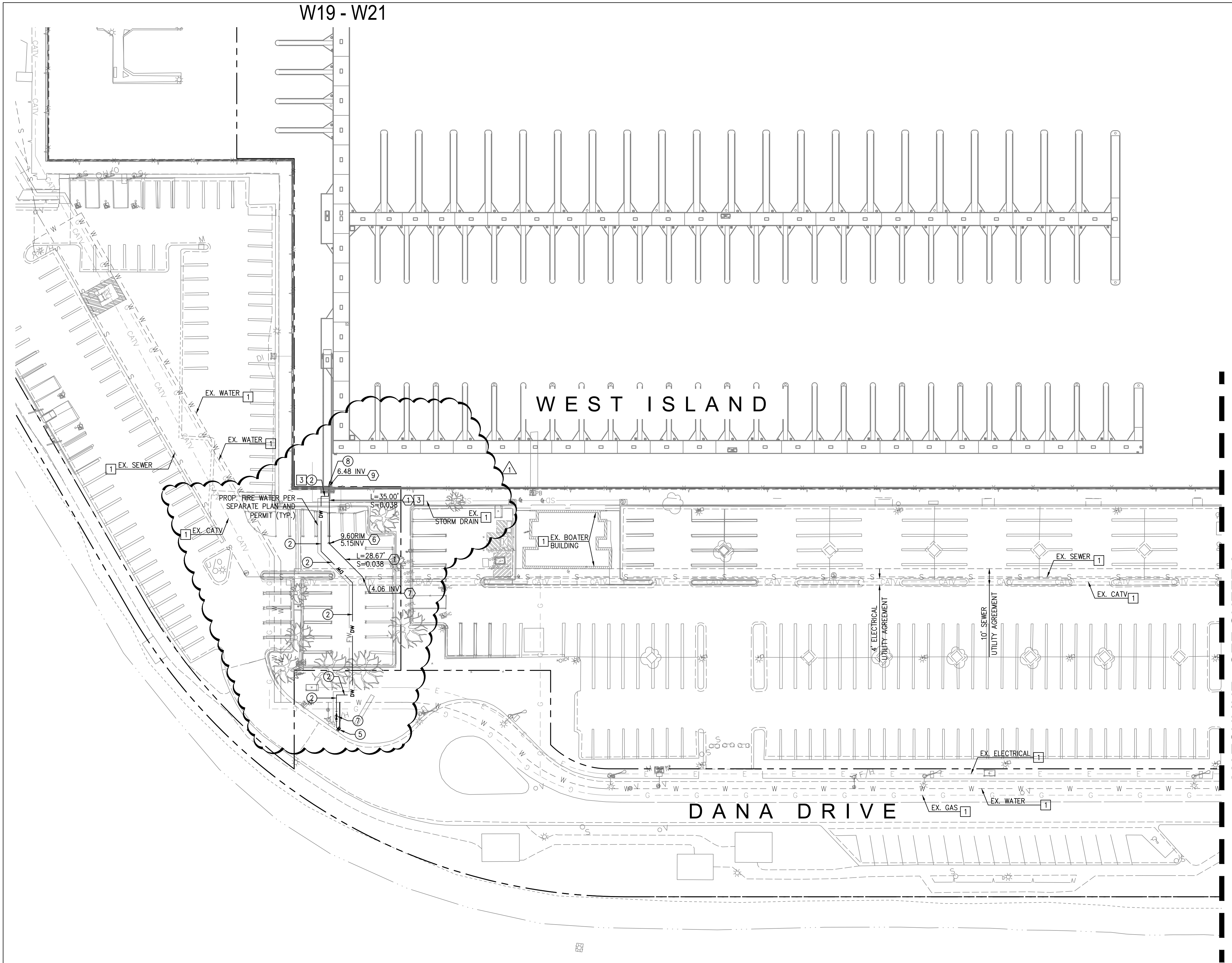
NOTE TO CONTRACTOR:

IT IS THE CONTRACTOR'S RESPONSIBILITY TO REPAIR ANY UTILITIES THAT ARE IN CONFLICT WITH PROPOSED IMPROVEMENTS. CONTRACTOR TO REPAIR, CUT, AND CAP ANY DAMAGED LANDSCAPE OR IRRIGATION. CONTRACTOR TO PROTECT ALL EXISTING TREES.

EXISTING UTILITY LOCATIONS HAVE NOT BEEN VERIFIED. CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING UTILITIES AND INFORM ENGINEER OF ANY DISCREPANCIES OR CHANGES NECESSARY TO THE PROPOSED UTILITIES. CONTRACTOR TO REPAIR ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION OF PROPOSED UTILITIES.



MATCHLINE - SEE SHEET 6



NO.	DATE	DESCRIPTION	CD	BY
1	10/07/22	REVISED WET UTILITY TRENCH AND SEWER LINES	CD	
REVISIONS				

PREPARED UNDER THE SUPERVISION OF:

TAIT
Since 1964

701 N. Parkcenter Drive
Santa Ana, CA 92705
p: 714/560/8200 f: 714/560/8211
www.tait.com

Los Angeles Sacramento San Francisco Dallas Phoenix
Ontario San Diego Boise Denver Portland

JACOB VANDERVIS R.C.E. No. C46301 DATE 10/12/22

GEOTECHNICAL ENGINEER SEAL

PROJECT NUMBER: ME0381

ENGINEER / DESIGNER: TAIT

PROJECT MANAGER: DM

CHECKED BY: JV

DANA POINT HARBOR REVITALIZATION

Harbor Drive
Dana Point, CA 92629

**PRIVATE DOMESTIC WATER AND SEWER PLAN
WEST ISLAND PRIVATE UTILITY PLAN**

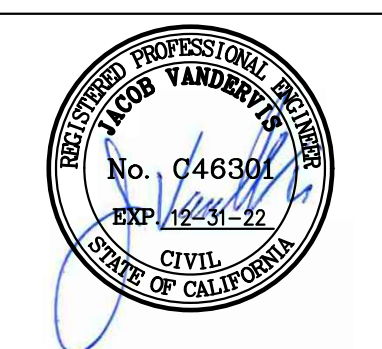
SCALE: SEE ON SHEET

DRAWN BY: TAIT

DATE: 10/12/2022

DRAWING: ME0381

SHEET NO.: 5





CONSTRUCTION NOTES:

- 1 PROTECT IN PLACE. ITEM PER PLAN.
- 2 CONTRACTOR TO REPLACE SURFACE IN KIND.
- 3 WHERE TRENCH ENCOUNTERS PCC, CONTRACTOR TO MATCH TO EXISTING PCC PAVEMENT, AT 5" PCC SIDEWALK PER CITY OF DANA POINT STD. PLAN DP-101.
- 4 REMOVE AND REPLACE PCC STEPS IN KIND (5.5" RISERS).
- 5 REMOVE PULLBOX PER SEPARATE PLAN.

DOMESTIC WATER NOTES:

- 1 FURNISH AND INSTALL 2" PVC SCH 80 WATER LINE, FITTINGS AND BENDS. TRENCH AND BEDDING PER DETAIL ON SHEET 9 AND GEOTECHNICAL RECOMMENDATIONS.
- 2 FURNISH AND INSTALL 3" PVC SCH 80 WATER LINE, FITTINGS AND BENDS. TRENCH AND BEDDING PER DETAIL ON SHEET 9 AND GEOTECHNICAL RECOMMENDATIONS.
- 3 TRENCHING AND BEDDING TO BE MODIFIED PER DETAIL ON SHEET 9 AND GEOTECHNICAL RECOMMENDATIONS WHERE GROUNDWATER IS ENCOUNTERED.
- 4 2" WATER METER CONNECTION TO WATER MAIN PER SEPARATE SCWD PLAN AND PERMIT.
- 5 3" WATER METER CONNECTION TO WATER MAIN PER SEPARATE SCWD PLAN AND PERMIT.
- 6 INSTALL 2" BACKFLOW PREVENTER PER SCWD STD. DWG. W-14 ON SHEET 12.
- 7 INSTALL 3" BACKFLOW PREVENTER PER SCWD STD. DWG. W-15 ON SHEET 12.
- 8 INSTALL TEMPORARY CAP UNTIL CONNECTING TO WATER LINE AT GANGWAY. CONTRACTOR TO COORDINATE CONNECTION TIMING WITH BELLINGHAM MARINE. SEE MARINA UTILITY PLAN FOR WATER LINE VALVE INSTALLATION.

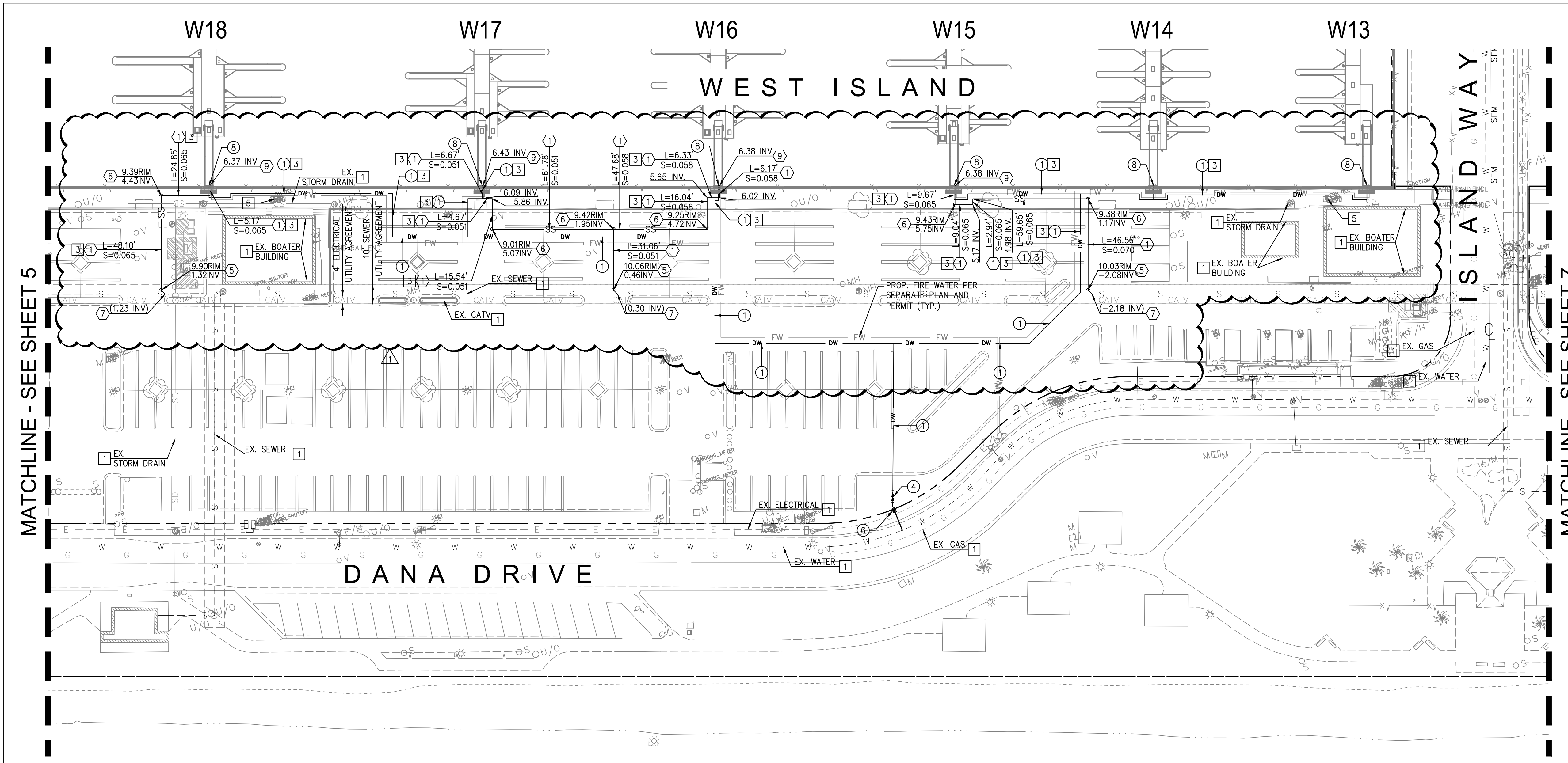
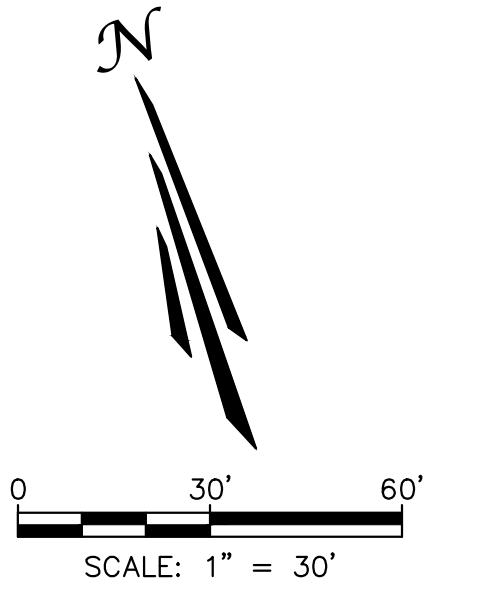
SEWER NOTES:

- 1 FURNISH AND INSTALL 4" PVC (SDR 35) SEWER LINE, FITTINGS AND BENDS. TRENCH AND BEDDING PER DETAIL ON SHEET 9 AND GEOTECHNICAL RECOMMENDATIONS.
- 2 FURNISH AND INSTALL 6" PVC (SDR 35) SEWER LINE, FITTINGS AND BENDS. TRENCH AND BEDDING PER DETAIL ON SHEET 9 AND GEOTECHNICAL RECOMMENDATIONS.
- 3 TRENCHING AND BEDDING TO BE MODIFIED PER DETAIL ON SHEET 9 AND GEOTECHNICAL RECOMMENDATIONS WHERE GROUNDWATER IS ENCOUNTERED.
- 4 CONSTRUCT SEWER MANHOLE PER SCWD STD. DWG. S-1 ON SHEET 13. ALL MANHOLES SHALL BE LINED USING LINER FROM APPROVED MATERIAL LIST AND COMPOSITE LIDS.
- 5 INSTALL 45° BEND.
- 6 INSTALL SEWER CLEANOUT PER SCWD STD. DWG. S-10 ON SHEET 14.
- 7 CONNECT 4" SEWER LATERAL TO EXISTING SEWER LINE PER SCWD STD. DWG. S-6 ON SHEET 14.
- 8 CONNECT 6" SEWER LATERAL TO EXISTING SEWER LINE PER SCWD STD. DWG. S-6 ON SHEET 14.
- 9 INSTALL TEMPORARY CAP UNTIL CONNECTING TO SEWER LINE AT GANGWAY. CONTRACTOR TO COORDINATE CONNECTION TIMING WITH BELLINGHAM MARINE.

NOTE TO CONTRACTOR:

IT IS THE CONTRACTOR'S RESPONSIBILITY TO REPAIR ANY UTILITIES THAT ARE IN CONFLICT WITH PROPOSED IMPROVEMENTS. CONTRACTOR TO REPAIR, CUT, AND CAP ANY DAMAGED LANDSCAPE OR IRRIGATION. CONTRACTOR TO PROTECT ALL EXISTING TREES.

EXISTING UTILITY LOCATIONS HAVE NOT BEEN VERIFIED. CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING UTILITIES AND INFORM ENGINEER OF ANY DISCREPANCIES OR CHANGES NECESSARY TO THE PROPOSED UTILITIES. CONTRACTOR TO REPAIR ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION OF PROPOSED UTILITIES.



MATCHLINE - SEE SHEET 5

MATCHLINE - SEE SHEET 7

NO.	DATE	DESCRIPTION	BY
10/07/22	REVISED WET UTILITY TRENCH AND SEWER LINES		CD
REVISIONS			

PREPARED UNDER THE SUPERVISION OF:

TAIT
Since 1964

701 N. Parkcenter Drive
Santa Ana, CA 92705
p: 714/560/8200 f: 714/560/8211
www.tait.com

Los Angeles Sacramento San Francisco Dallas Phoenix
Ontario San Diego Boise Denver Portland

JACOB VANDERVIS R.C.E. No. C46301 DATE 10/12/22

GEOTECHNICAL ENGINEER SEAL

PROJECT NUMBER: ME0381

ENGINEER / DESIGNER: TAIT

PROJECT MANAGER: DM

CHECKED BY: JV

DANA POINT HARBOR REVITALIZATION

Harbor Drive
Dana Point, CA 92629

**PRIVATE DOMESTIC WATER AND SEWER PLAN
WEST ISLAND PRIVATE UTILITY PLAN**

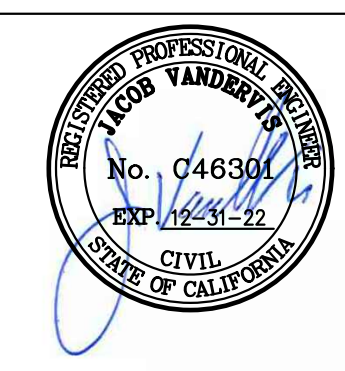
SCALE: SEE ON SHEET

DRAWN BY: TAIT

DATE: 10/12/2022

DRAWING: ME0381

SHEET NO.: 6

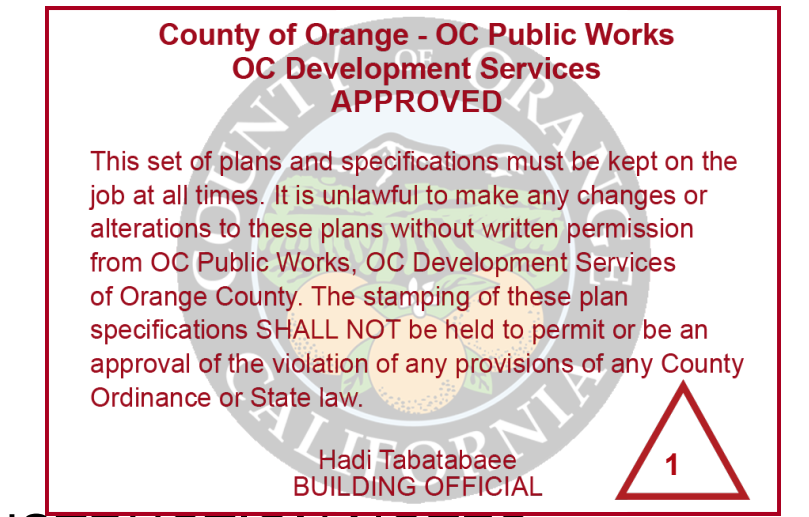


Zoning: CanningK 11/2/2022

Building&Safety: Roshanak Amirazizi 11/2/2022

Revision: 1

Permits: PLB22-0127.R1



This set of plans and specifications must be kept on the job at all times. It is unlawful to make any changes or alterations to these plans without written permission from OC Public Works, OC Development Services of Orange County. The stamping of these plan specifications SHALL NOT be held to permit or be an approval of the violation of any provisions of any County Ordinance or State law.

CONSTRUCTION NOTES:

- 1 PROTECT IN PLACE. ITEM PER PLAN.
- 2 CONTRACTOR TO REPLACE SURFACE IN KIND.
- 3 WHERE TRENCH ENCOUNTERS PCC, CONTRACTOR TO MATCH TO EXISTING PCC PAVEMENT, AT 5" PCC SIDEWALK PER CITY OF DANA POINT STD. PLAN DP-101.
- 4 REMOVE AND REPLACE PCC STEPS IN KIND (5.5" RISERS).
- 5 REMOVE PULLBOX PER SEPARATE PLAN.

DOMESTIC WATER NOTES:

- 1 FURNISH AND INSTALL 2" PVC SCH 80 WATER LINE, FITTINGS AND BENDS. TRENCH AND BEDDING PER DETAIL ON SHEET 9 AND GEOTECHNICAL RECOMMENDATIONS.
- 2 FURNISH AND INSTALL 3" PVC SCH 80 WATER LINE, FITTINGS AND BENDS. TRENCH AND BEDDING PER DETAIL ON SHEET 9 AND GEOTECHNICAL RECOMMENDATIONS.
- 3 TRENCHING AND BEDDING TO BE MODIFIED PER DETAIL ON SHEET 9 AND GEOTECHNICAL RECOMMENDATIONS WHERE GROUNDWATER IS ENCOUNTERED.
- 4 2" WATER METER CONNECTION TO WATER MAIN PER SEPARATE SCWD PLAN AND PERMIT.
- 5 3" WATER METER CONNECTION TO WATER MAIN PER SEPARATE SCWD PLAN AND PERMIT.
- 6 INSTALL 2" BACKFLOW PREVENTER PER SCWD STD. DWG. W-14 ON SHEET 12.
- 7 INSTALL 3" BACKFLOW PREVENTER PER SCWD STD. DWG. W-15 ON SHEET 12.
- 8 INSTALL TEMPORARY CAP UNTIL CONNECTING TO WATER LINE AT GANGWAY. CONTRACTOR TO COORDINATE CONNECTION TIMING WITH BELLINGHAM MARINE. SEE MARINA UTILITY PLAN FOR WATER LINE VALVE INSTALLATION.

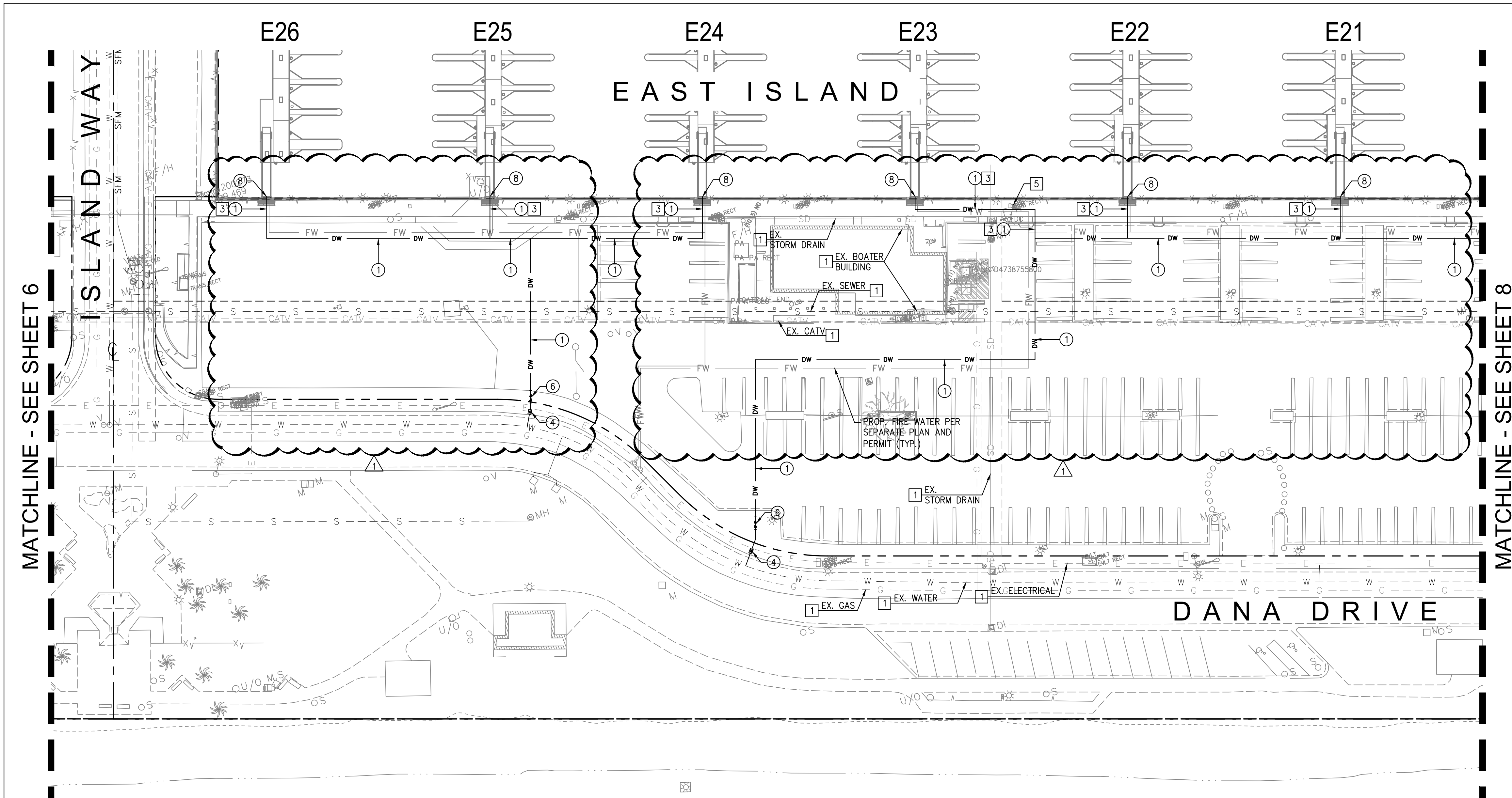
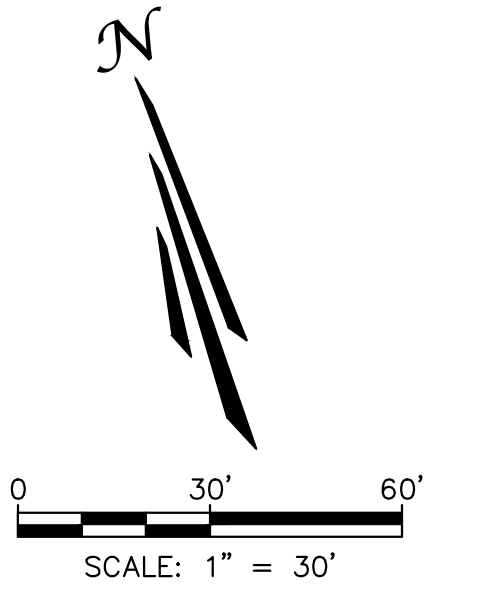
SEWER NOTES:

- 1 FURNISH AND INSTALL 4" PVC (SDR 35) SEWER LINE, FITTINGS AND BENDS. TRENCH AND BEDDING PER DETAIL ON SHEET 9 AND GEOTECHNICAL RECOMMENDATIONS.
- 2 FURNISH AND INSTALL 6" PVC (SDR 35) SEWER LINE, FITTINGS AND BENDS. TRENCH AND BEDDING PER DETAIL ON SHEET 9 AND GEOTECHNICAL RECOMMENDATIONS.
- 3 TRENCHING AND BEDDING TO BE MODIFIED PER DETAIL ON SHEET 9 AND GEOTECHNICAL RECOMMENDATIONS WHERE GROUNDWATER IS ENCOUNTERED.
- 4 CONSTRUCT SEWER MANHOLE PER SCWD STD. DWG. S-1 ON SHEET 13. ALL MANHOLES SHALL BE LINED USING LINER FROM APPROVED MATERIAL LIST AND COMPOSITE LIDS.
- 5 INSTALL 45° BEND.
- 6 INSTALL SEWER CLEANOUT PER SCWD STD. DWG. S-10 ON SHEET 14.
- 7 CONNECT 4" SEWER LATERAL TO EXISTING SEWER LINE PER SCWD STD. DWG. S-6 ON SHEET 14.
- 8 CONNECT 6" SEWER LATERAL TO EXISTING SEWER LINE PER SCWD STD. DWG. S-6 ON SHEET 14.
- 9 INSTALL TEMPORARY CAP UNTIL CONNECTING TO SEWER LINE AT GANGWAY. CONTRACTOR TO COORDINATE CONNECTION TIMING WITH BELLINGHAM MARINE.

NOTE TO CONTRACTOR:

IT IS THE CONTRACTOR'S RESPONSIBILITY TO REPAIR ANY UTILITIES THAT ARE IN CONFLICT WITH PROPOSED IMPROVEMENTS. CONTRACTOR TO REPAIR, CUT, AND CAP ANY DAMAGED LANDSCAPE OR IRRIGATION. CONTRACTOR TO PROTECT ALL EXISTING TREES.

EXISTING UTILITY LOCATIONS HAVE NOT BEEN VERIFIED. CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING UTILITIES AND INFORM ENGINEER OF ANY DISCREPANCIES OR CHANGES NECESSARY TO THE PROPOSED UTILITIES. CONTRACTOR TO REPAIR ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION OF PROPOSED UTILITIES.



NO.	DATE	REVISIONS	CD BY
1	10/07/22	REVISED WET UTILITY TRENCH AND SEWER LINES	CD BY

PREPARED UNDER THE SUPERVISION OF:

TAIT
Since 1964

701 N. Parkcenter Drive
Santa Ana, CA 92705
p: 714/560/8200 f: 714/560/8211
www.tait.com

Los Angeles Sacramento San Francisco Dallas Phoenix
Ontario San Diego Boise Denver Portland

JACOB VANDERVIS R.C.E. No. C46301 DATE 10/12/22

GEOTECHNICAL ENGINEER SEAL

PROJECT NUMBER: ME0381

ENGINEER / DESIGNER: TAIT

PROJECT MANAGER: DM

CHECKED BY: JV

DANA POINT HARBOR REVITALIZATION

Harbor Drive
Dana Point, CA 92629

**PRIVATE DOMESTIC WATER AND SEWER PLAN
EAST ISLAND PRIVATE UTILITY PLAN**

SCALE:	SEE ON SHEET
DRAWN BY:	TAIT
DATE:	10/12/2022
DRAWING:	ME0381
SHEET NO.:	7

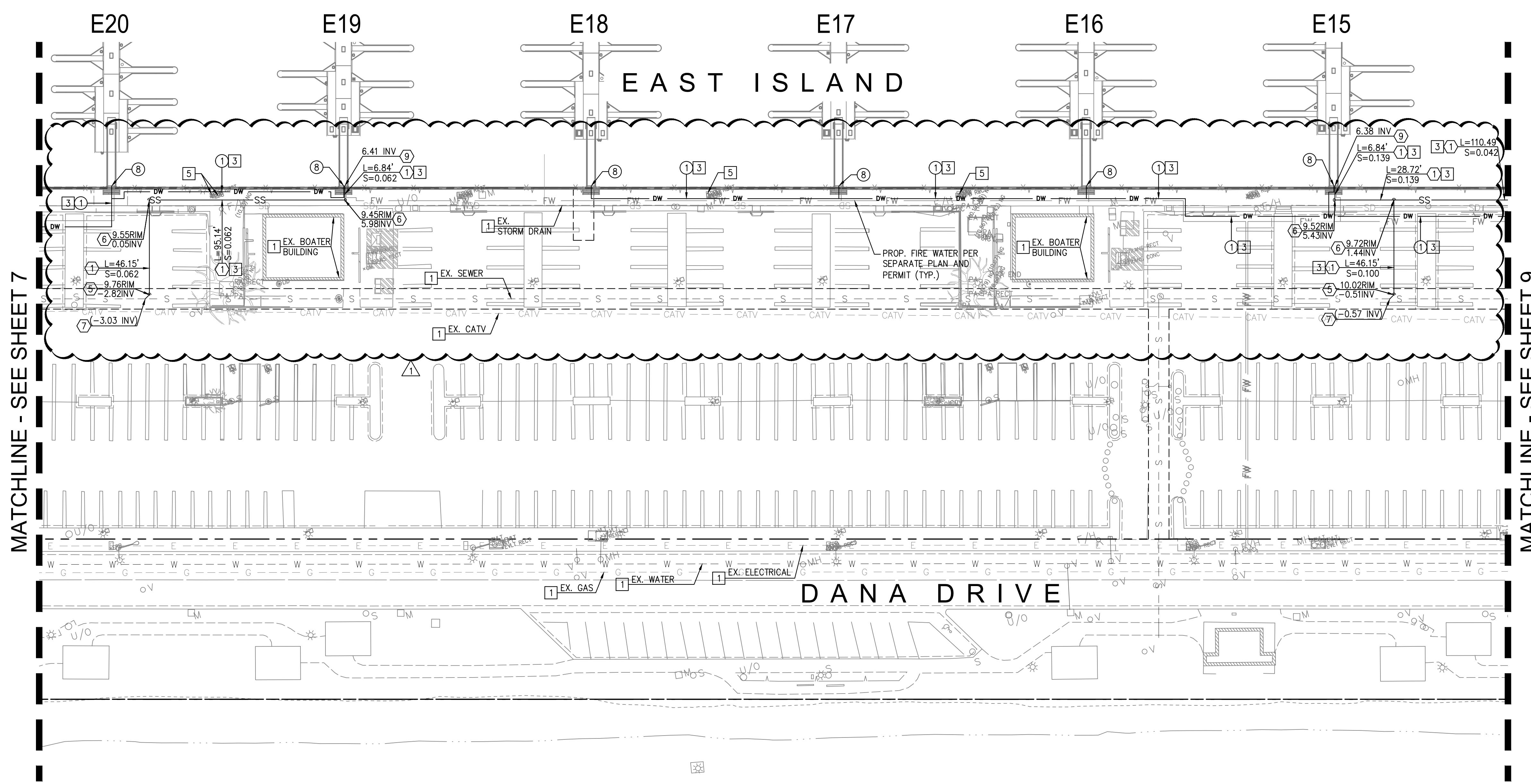
K:\Drawings\ME\ME03810 - Dana Point Harbor\ENG\Construction Drawings\Marina\Gangways\Private Utilities\ME03810_EI_PHL_UT_PRIV.dwg PLOTTED: 10/12/2022 5:09:45 PM BY: Chris Dickel

Zoning: CanningK 11/2/2022
 Building&Safety: Roshanak Amirazizi 11/2/2022
 Revision: 1
 Permits: PLB22-0127.R1

County of Orange - OC Public Works
 OC Development Services
 APPROVED

This set of plans and specifications must be kept on the job at all times. It is unlawful to make any changes or alterations to these plans without written permission from OC Public Works, OC Development Services of Orange County. The stamping of these plan specifications SHALL NOT be held to permit or be an approval of the violation of any provisions of any County Ordinance or State law.

Hadi Tabatabaee
 BUILDING OFFICIAL



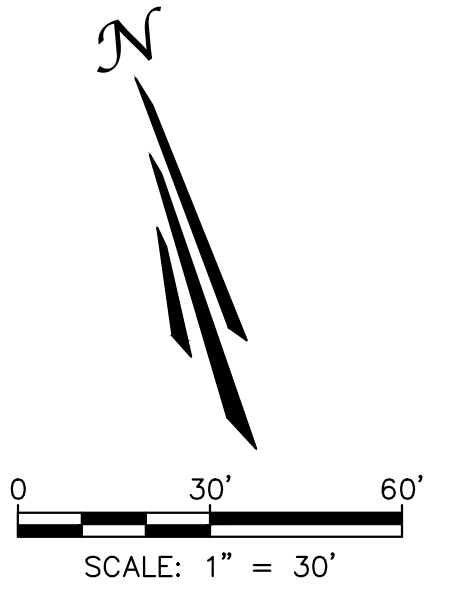
- CONSTRUCTION NOTES:**
- 1 PROTECT IN PLACE. ITEM PER PLAN.
 - 2 CONTRACTOR TO REPLACE SURFACE IN KIND.
 - 3 WHERE TRENCH ENCOUNTERS PCC, CONTRACTOR TO MATCH TO EXISTING PCC PAVEMENT, AT 5" PCC SIDEWALK PER CITY OF DANA POINT STD. PLAN DP-101.
 - 4 REMOVE AND REPLACE PCC STEPS IN KIND (5.5" RISERS).
 - 5 REMOVE PULLBOX PER SEPARATE PLAN.

- DOMESTIC WATER NOTES:**
- 1 FURNISH AND INSTALL 2" PVC SCH 80 WATER LINE, FITTINGS AND BENDS. TRENCH AND BEDDING PER DETAIL ON SHEET 9 AND GEOTECHNICAL RECOMMENDATIONS.
 - 2 FURNISH AND INSTALL 3" PVC SCH 80 WATER LINE, FITTINGS AND BENDS. TRENCH AND BEDDING PER DETAIL ON SHEET 9 AND GEOTECHNICAL RECOMMENDATIONS.
 - 3 TRENCHING AND BEDDING TO BE MODIFIED PER DETAIL ON SHEET 9 AND GEOTECHNICAL RECOMMENDATIONS WHERE GROUNDWATER IS ENCOUNTERED.
 - 4 2" WATER METER CONNECTION TO WATER MAIN PER SEPARATE SCWD PLAN AND PERMIT.
 - 5 3" WATER METER CONNECTION TO WATER MAIN PER SEPARATE SCWD PLAN AND PERMIT.
 - 6 INSTALL 2" BACKFLOW PREVENTER PER SCWD STD. DWG. W-14 ON SHEET 12.
 - 7 INSTALL 3" BACKFLOW PREVENTER PER SCWD STD. DWG. W-15 ON SHEET 12.
 - 8 INSTALL TEMPORARY CAP UNTIL CONNECTING TO WATER LINE AT GANGWAY. CONTRACTOR TO COORDINATE CONNECTION TIMING WITH BELLINGHAM MARINE. SEE MARINA UTILITY PLAN FOR WATER LINE VALVE INSTALLATION.

- SEWER NOTES:**
- 1 FURNISH AND INSTALL 4" PVC (SDR 35) SEWER LINE, FITTINGS AND BENDS. TRENCH AND BEDDING PER DETAIL ON SHEET 9 AND GEOTECHNICAL RECOMMENDATIONS.
 - 2 FURNISH AND INSTALL 6" PVC (SDR 35) SEWER LINE, FITTINGS AND BENDS. TRENCH AND BEDDING PER DETAIL ON SHEET 9 AND GEOTECHNICAL RECOMMENDATIONS.
 - 3 TRENCHING AND BEDDING TO BE MODIFIED PER DETAIL ON SHEET 9 AND GEOTECHNICAL RECOMMENDATIONS WHERE GROUNDWATER IS ENCOUNTERED.
 - 4 CONSTRUCT SEWER MANHOLE PER SCWD STD. DWG. S-1 ON SHEET 13. ALL MANHOLES SHALL BE LINED USING LINER FROM APPROVED MATERIAL LIST AND COMPOSITE LIDS.
 - 5 INSTALL 45° BEND.
 - 6 INSTALL SEWER CLEANOUT PER SCWD STD. DWG. S-10 ON SHEET 14.
 - 7 CONNECT 4" SEWER LATERAL TO EXISTING SEWER LINE PER SCWD STD. DWG. S-6 ON SHEET 14.
 - 8 CONNECT 6" SEWER LATERAL TO EXISTING SEWER LINE PER SCWD STD. DWG. S-6 ON SHEET 14.
 - 9 INSTALL TEMPORARY CAP UNTIL CONNECTING TO SEWER LINE AT GANGWAY. CONTRACTOR TO COORDINATE CONNECTION TIMING WITH BELLINGHAM MARINE.

NOTE TO CONTRACTOR:
 IT IS THE CONTRACTOR'S RESPONSIBILITY TO REPAIR ANY UTILITIES THAT ARE IN CONFLICT WITH PROPOSED IMPROVEMENTS. CONTRACTOR TO REPAIR, CUT, AND CAP ANY DAMAGED LANDSCAPE OR IRRIGATION. CONTRACTOR TO PROTECT ALL EXISTING TREES.

EXISTING UTILITY LOCATIONS HAVE NOT BEEN VERIFIED. CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING UTILITIES AND INFORM ENGINEER OF ANY DISCREPANCIES OR CHANGES NECESSARY TO THE PROPOSED UTILITIES. CONTRACTOR TO REPAIR ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION OF PROPOSED UTILITIES.



NO.	DATE	DESCRIPTION	BY
1	10/07/22	REVISED WET UTILITY TRENCH AND SEWER LINES	CD
REVISIONS			

PREPARED UNDER THE SUPERVISION OF:

TAIT
 Since 1964

701 N. Parkcenter Drive
 Santa Ana, CA 92705
 p: 714/560/8200 f: 714/560/8211
 www.tait.com

Los Angeles Sacramento San Francisco Dallas Phoenix
 Ontario San Diego Boise Denver Portland

JACOB VANDERVIS R.C.E. No. C46301 DATE 10/12/22

GEOTECHNICAL ENGINEER SEAL

PROJECT NUMBER: ME0381

ENGINEER / DESIGNER: TAIT

PROJECT MANAGER: DM

CHECKED BY: JV

DANA POINT HARBOR REVITALIZATION

Harbor Drive
 Dana Point, CA 92629

PRIVATE DOMESTIC WATER AND SEWER PLAN
 EAST ISLAND PRIVATE UTILITY PLAN

SCALE: SEE ON SHEET

DRAWN BY: TAIT

DATE: 10/12/2022

DRAWING: ME0381

SHEET NO.: 8

K:\Drawings\ME\ME03810 - Dana Point Harbor\ENG\Construction Drawings\Marina\Gangways Phase\Private Utilities\ME03810_EI_PHL_UT_PRIV.dwg PLOTTED: 10/12/2022 5:10:57 PM BY: Chris Dickel

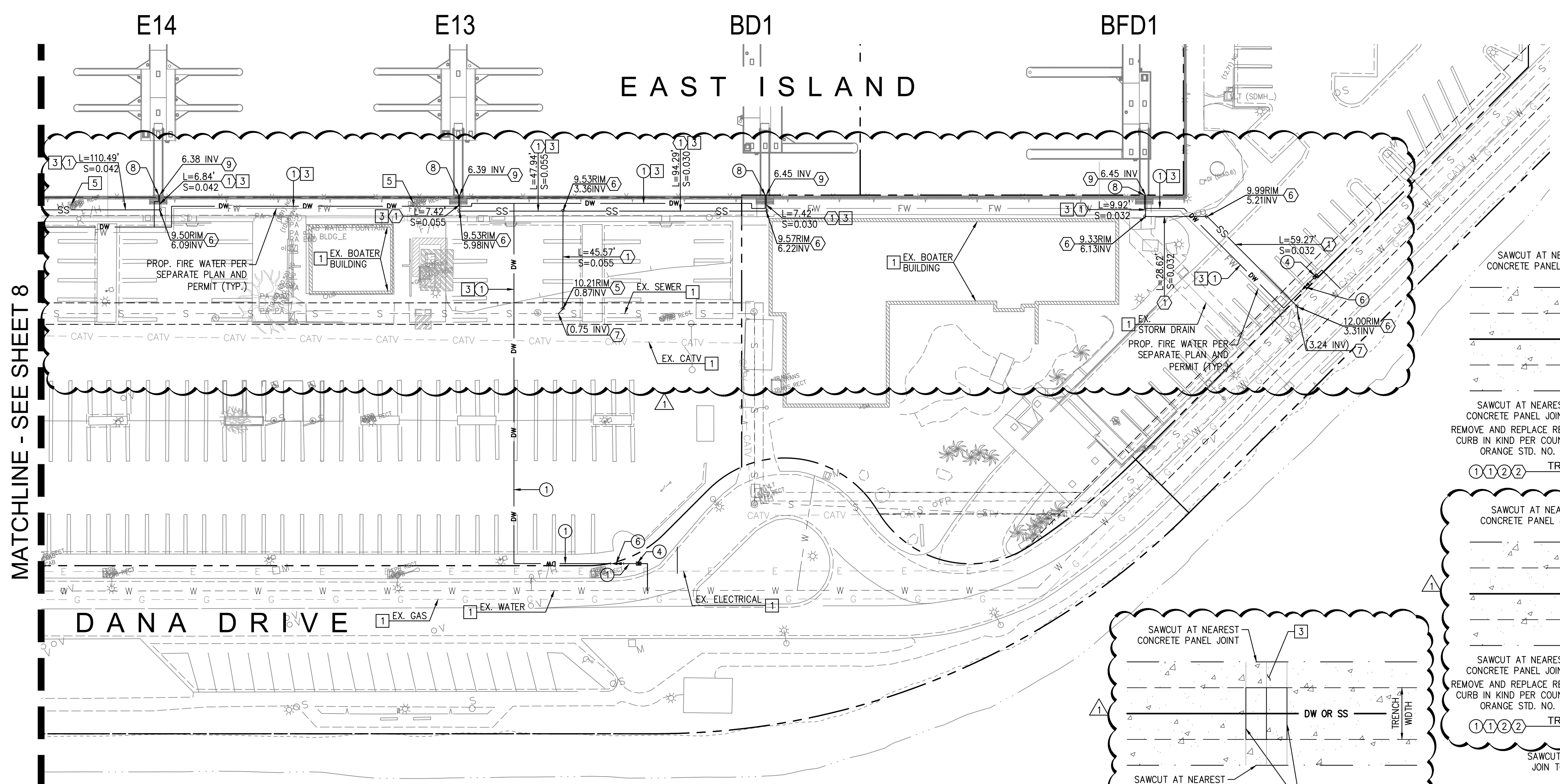
County of Orange - OC Public Works
 OC Development Services
 APPROVED

This set of plans and specifications must be kept on the job at all times. It is unlawful to make any changes or alterations to these plans without written permission from OC Public Works, OC Development Services of Orange County. The stamping of these plan specifications SHALL NOT be held to permit or be an approval of the violation of any provisions of any County Ordinance or State law.

Hadi Tabatabaee
 BUILDING OFFICIAL

E14 E13 BD1 BFD1
EAST ISLAND

MATCHLINE - SEE SHEET 8



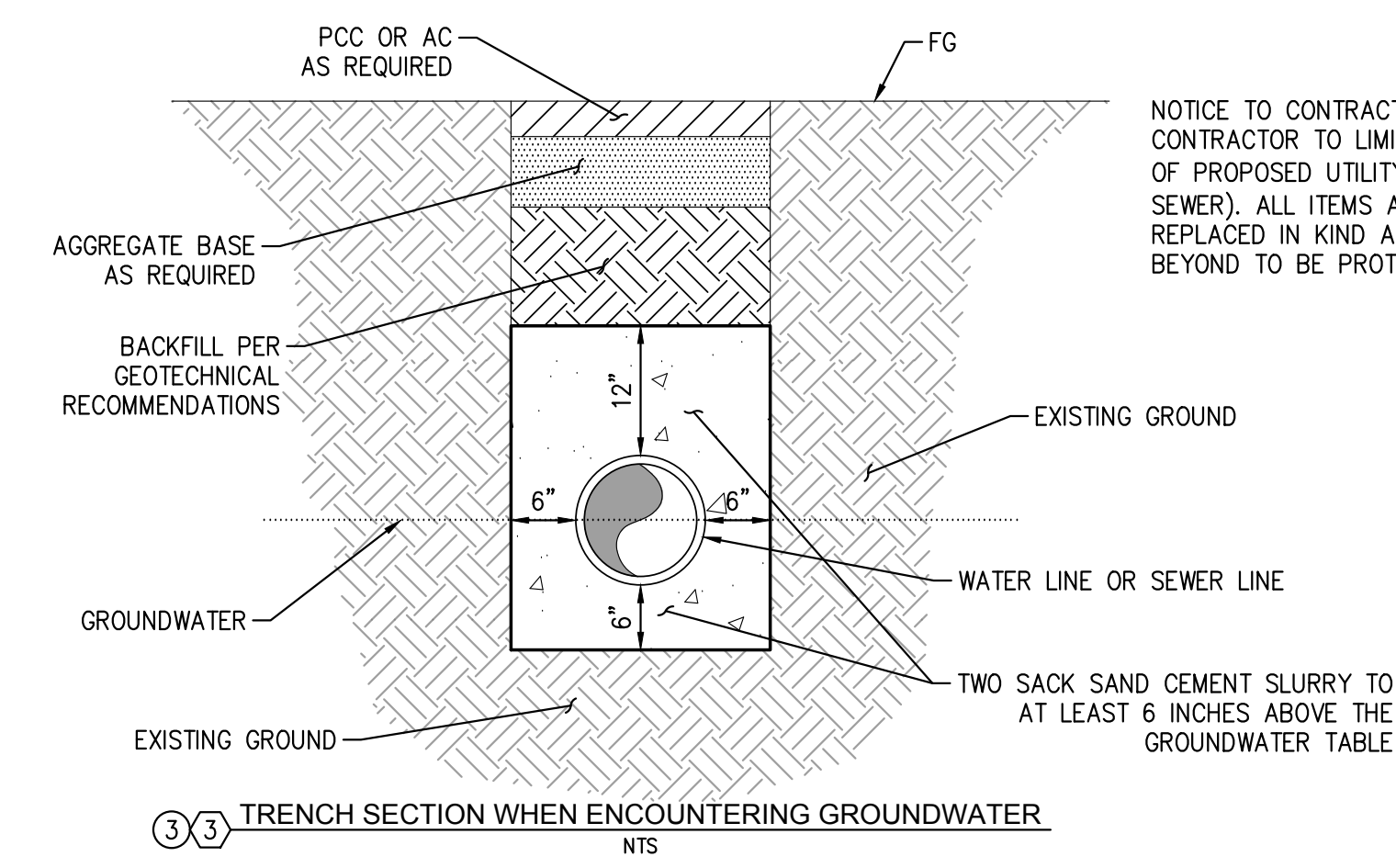
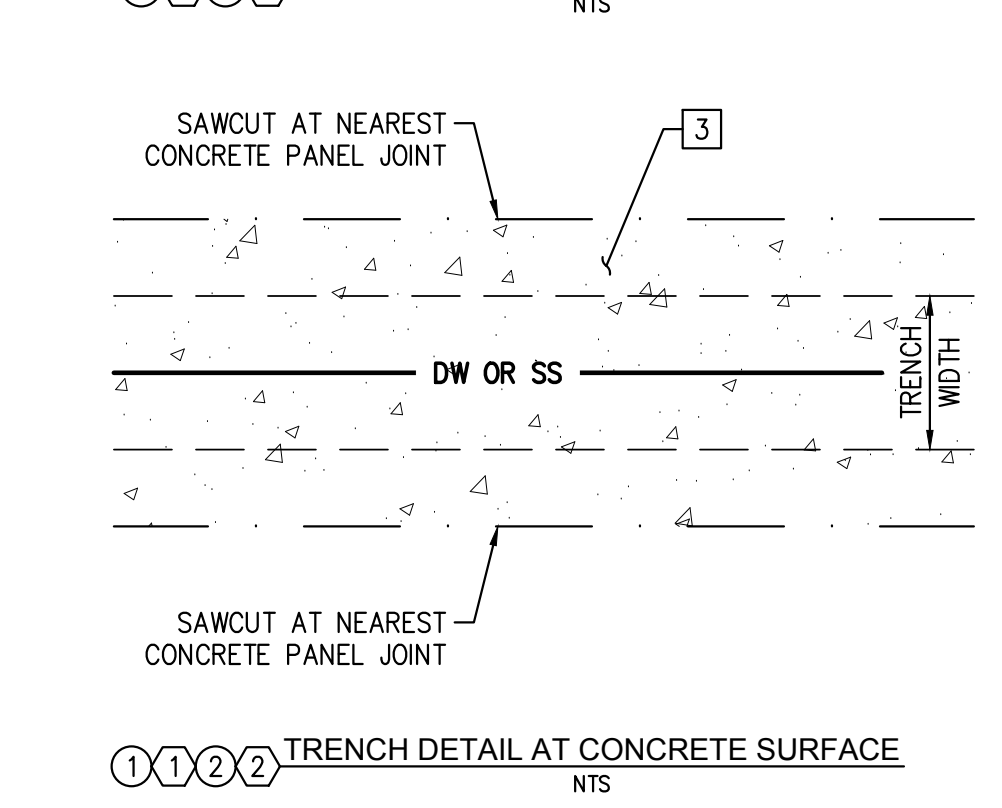
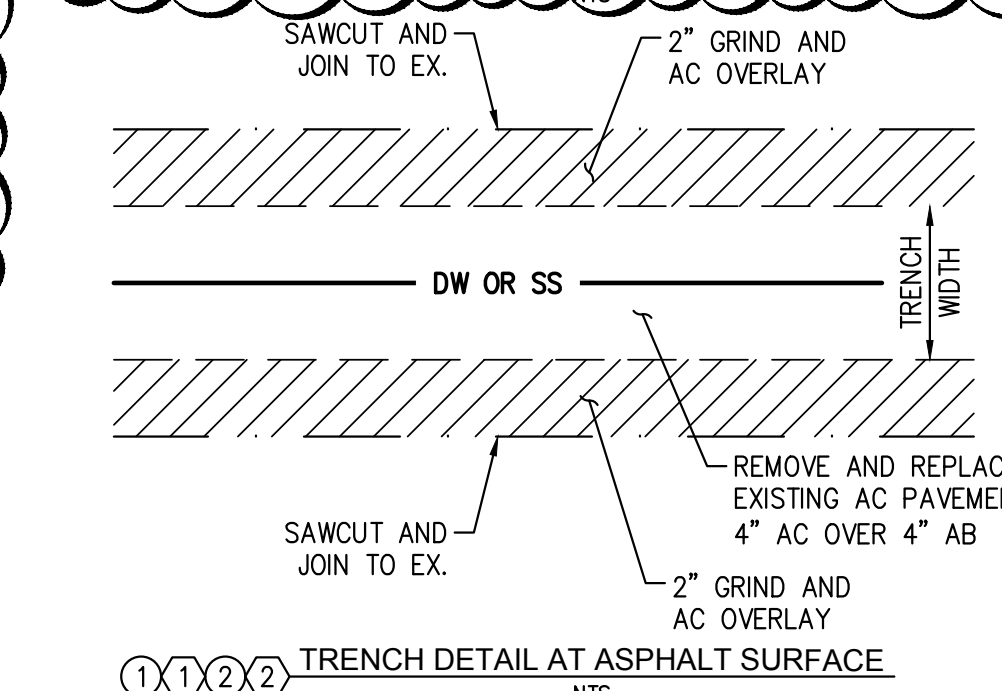
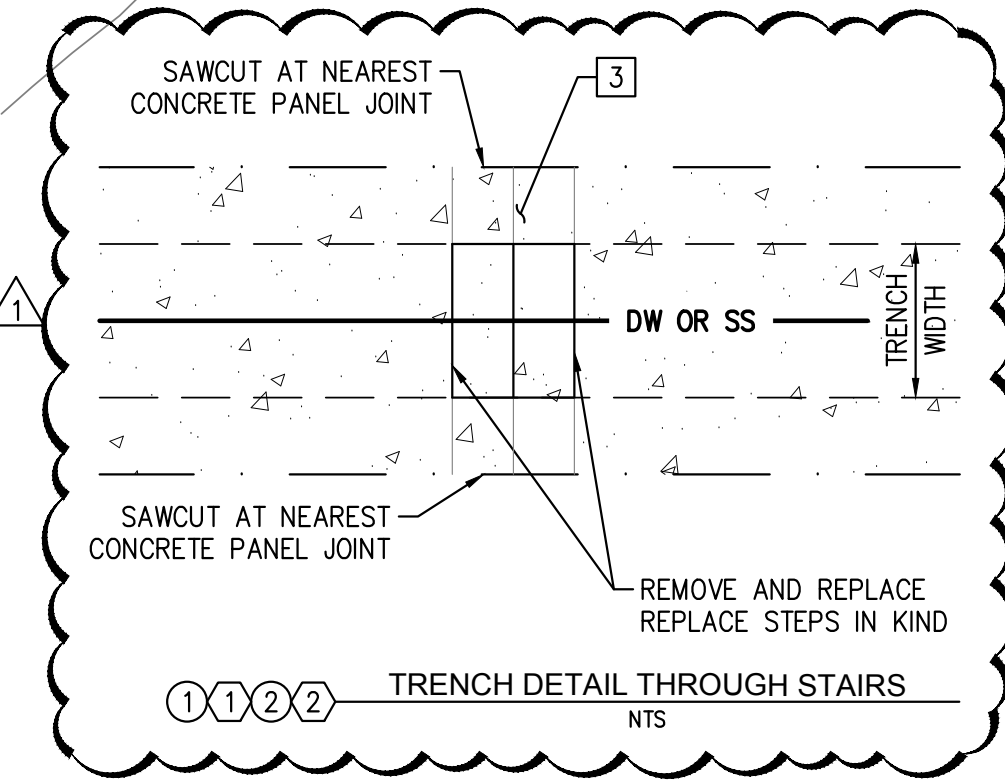
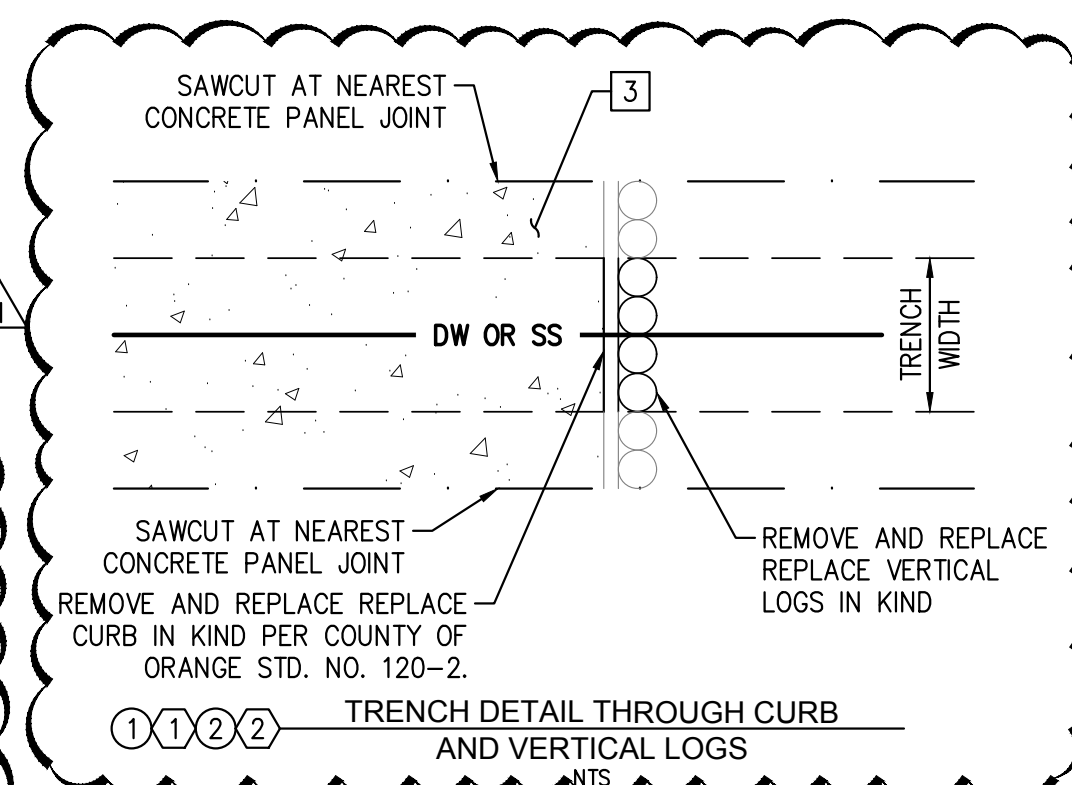
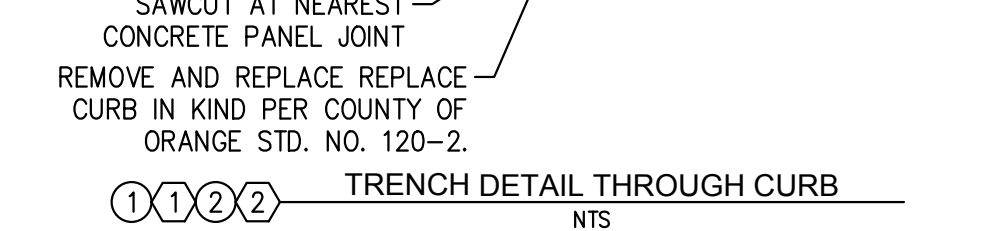
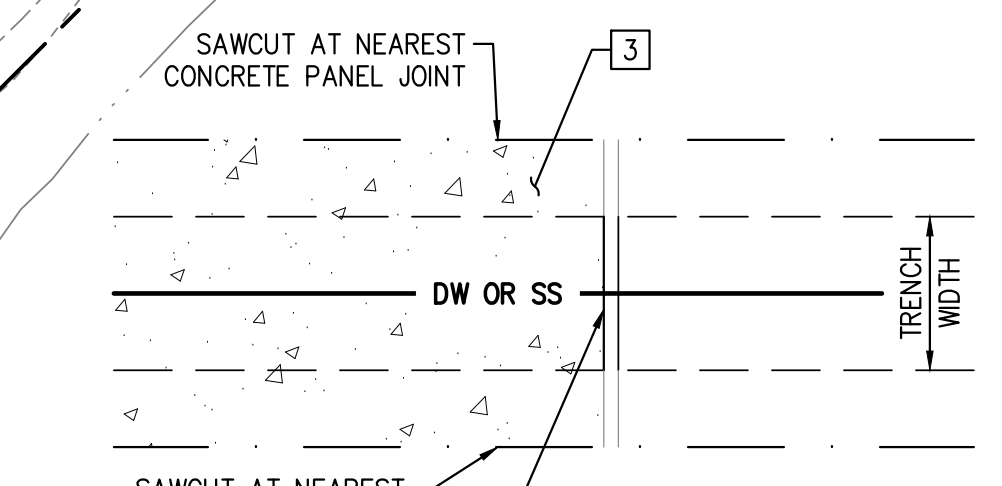
- CONSTRUCTION NOTES:**
- PROTECT IN PLACE. ITEM PER PLAN.
 - CONTRACTOR TO REPLACE SURFACE IN KIND.
 - WHERE TRENCH ENCOUNTERS PCC, CONTRACTOR TO MATCH TO EXISTING PCC PAVEMENT, AT 5" PCC SIDEWALK PER CITY OF DANA POINT STD. PLAN DP-101.
 - REMOVE AND REPLACE PCC STEPS IN KIND (5.5" RISERS).
 - REMOVE PULLBOX PER SEPARATE PLAN.

- DOMESTIC WATER NOTES:**
- FURNISH AND INSTALL 2" PVC SCH 80 WATER LINE, FITTINGS AND BENDS. TRENCH AND BEDDING PER DETAIL ON SHEET 9 AND GEOTECHNICAL RECOMMENDATIONS.
 - FURNISH AND INSTALL 3" PVC SCH 80 WATER LINE, FITTINGS AND BENDS. TRENCH AND BEDDING PER DETAIL ON SHEET 9 AND GEOTECHNICAL RECOMMENDATIONS.
 - TRENCHING AND BEDDING TO BE MODIFIED PER DETAIL ON SHEET 9 AND GEOTECHNICAL RECOMMENDATIONS WHERE GROUNDWATER IS ENCOUNTERED.
 - 2" WATER METER CONNECTION TO WATER MAIN PER SEPARATE SCWD PLAN AND PERMIT.
 - 3" WATER METER CONNECTION TO WATER MAIN PER SEPARATE SCWD PLAN AND PERMIT.
 - INSTALL 2" BACKFLOW PREVENTER PER SCWD STD. DWG. W-14 ON SHEET 12.
 - INSTALL 3" BACKFLOW PREVENTER PER SCWD STD. DWG. W-15 ON SHEET 12.
 - INSTALL TEMPORARY CAP UNTIL CONNECTING TO WATER LINE AT GANGWAY. CONTRACTOR TO COORDINATE CONNECTION TIMING WITH BELLINGHAM MARINE. SEE MARINA UTILITY PLAN FOR WATER LINE VALVE INSTALLATION.

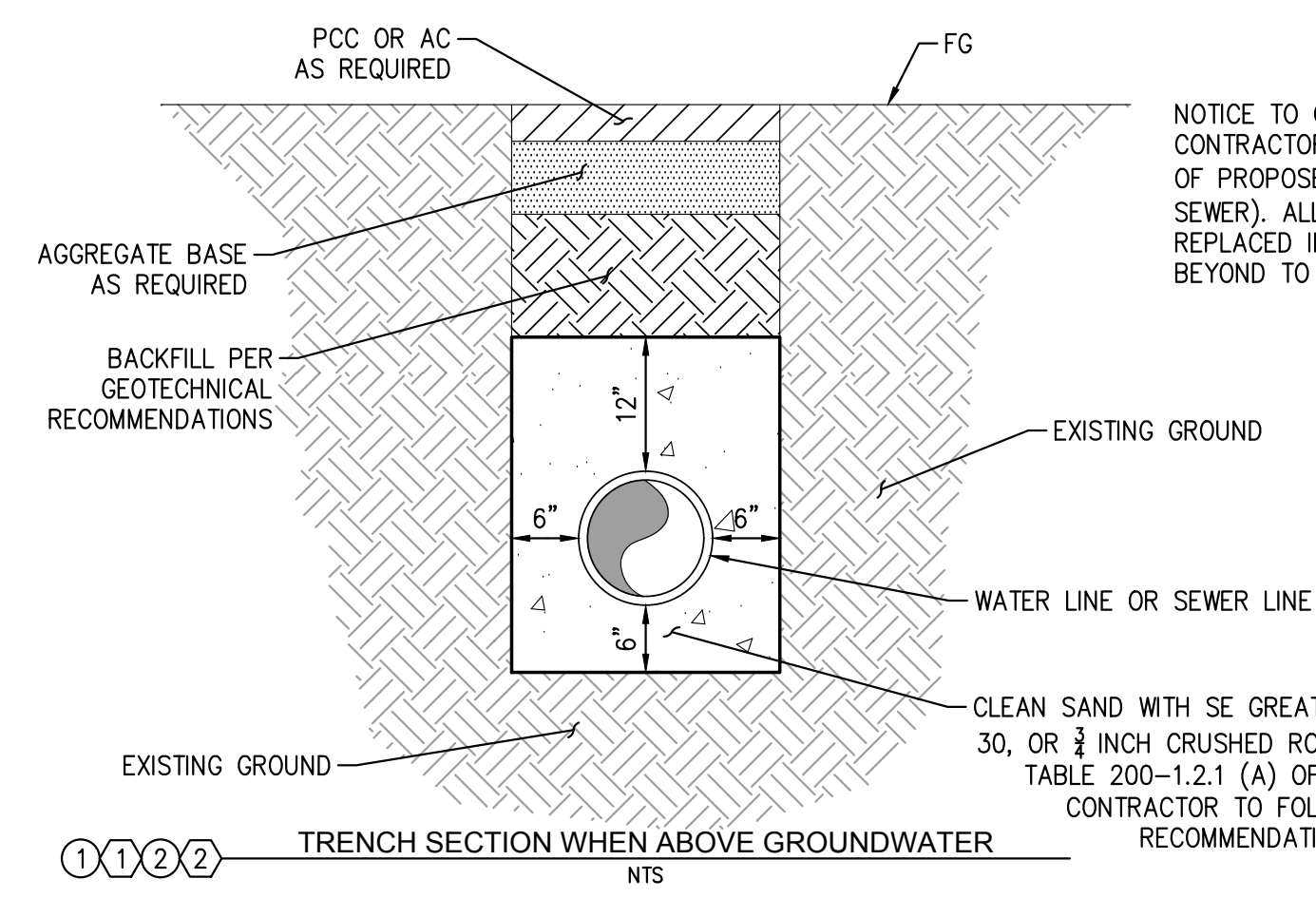
- SEWER NOTES:**
- FURNISH AND INSTALL 4" PVC (SDR 35) SEWER LINE, FITTINGS AND BENDS. TRENCH AND BEDDING PER DETAIL ON SHEET 9 AND GEOTECHNICAL RECOMMENDATIONS.
 - FURNISH AND INSTALL 6" PVC (SDR 35) SEWER LINE, FITTINGS AND BENDS. TRENCH AND BEDDING PER DETAIL ON SHEET 9 AND GEOTECHNICAL RECOMMENDATIONS.
 - TRENCHING AND BEDDING TO BE MODIFIED PER DETAIL ON SHEET 9 AND GEOTECHNICAL RECOMMENDATIONS WHERE GROUNDWATER IS ENCOUNTERED.
 - CONSTRUCT SEWER MANHOLE PER SCWD STD. DWG. S-1 ON SHEET 13. ALL MANHOLES SHALL BE LINED USING LINER FROM APPROVED MATERIAL LIST AND COMPOSITE LIDS.
 - INSTALL 45° BEND.
 - INSTALL SEWER CLEANOUT PER SCWD STD. DWG. S-10 ON SHEET 14.
 - CONNECT 4" SEWER LATERAL TO EXISTING SEWER LINE PER SCWD STD. DWG. S-6 ON SHEET 14.
 - CONNECT 6" SEWER LATERAL TO EXISTING SEWER LINE PER SCWD STD. DWG. S-6 ON SHEET 14.
 - INSTALL TEMPORARY CAP UNTIL CONNECTING TO SEWER LINE AT GANGWAY. CONTRACTOR TO COORDINATE CONNECTION TIMING WITH BELLINGHAM MARINE.

NOTE TO CONTRACTOR:
 IT IS THE CONTRACTOR'S RESPONSIBILITY TO REPAIR ANY UTILITIES THAT ARE IN CONFLICT WITH PROPOSED IMPROVEMENTS. CONTRACTOR TO REPAIR, CUT, AND CAP ANY DAMAGED LANDSCAPE OR IRRIGATION. CONTRACTOR TO PROTECT ALL EXISTING TREES.

EXISTING UTILITY LOCATIONS HAVE NOT BEEN VERIFIED. CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING UTILITIES AND INFORM ENGINEER OF ANY DISCREPANCIES OR CHANGES NECESSARY TO THE PROPOSED UTILITIES. CONTRACTOR TO REPAIR ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION OF PROPOSED UTILITIES.



NOTICE TO CONTRACTOR:
 CONTRACTOR TO LIMIT TRENCHING TO LIMITS OF PROPOSED UTILITY (DOMESTIC WATER OR SEWER). ALL ITEMS ABOVE GROUND TO BE REPLACED IN KIND AND ALL STRUCTURES BEYOND TO BE PROTECTED IN PLACE.



NOTICE TO CONTRACTOR:
 CONTRACTOR TO LIMIT TRENCHING TO LIMITS OF PROPOSED UTILITY (DOMESTIC WATER OR SEWER). ALL ITEMS ABOVE GROUND TO BE REPLACED IN KIND AND ALL STRUCTURES BEYOND TO BE PROTECTED IN PLACE.

NO.	DATE	DESCRIPTION	BY
10/07/22	REVISED WET UTILITY TRENCH AND SEWER LINES. ADDED ADDITIONAL TRENCH DETAILS.	CD	
REVISIONS			

PREPARED UNDER THE SUPERVISION OF:
TAIT
 Since 1964
 Los Angeles Sacramento San Francisco Dallas Phoenix
 Ontario San Diego Boise Denver Portland

701 N. Parkcenter Drive
 Santa Ana, CA 92705
 p: 714/560/8200 f: 714/560/8211
 www.tait.com

JACOB VANDERVIS R.C.E. No. C46301 DATE 10/12/22

GEOTECHNICAL ENGINEER SEAL

PROJECT NUMBER: ME0381

ENGINEER / DESIGNER: TAIT

PROJECT MANAGER: DM

CHECKED BY: JV

DANA POINT HARBOR REVITALIZATION

Harbor Drive
 Dana Point, CA 92629

**PRIVATE DOMESTIC WATER AND SEWER PLAN
 EAST ISLAND PRIVATE UTILITY PLAN**

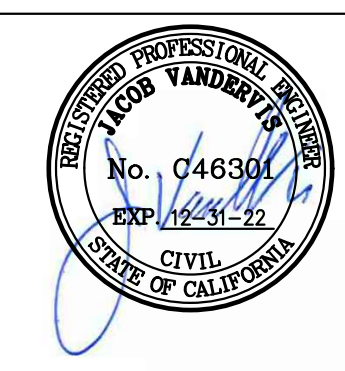
SCALE: SEE ON SHEET

DRAWN BY: TAIT

DATE: 10/12/2022

DRAWING: ME0381

SHEET NO.: 9



Zoning: CanningK 11/2/2022

Building&Safety: Roshanak Amirazizi 11/2/2022

Revision: 1

Permits: PLB22-0127.R1

County of Orange - OC Public Works
OC Development Services
APPROVED

This set of plans and specifications must be kept on the job at all times. It is unlawful to make any changes or alterations to these plans without written permission from OC Public Works, OC Development Services of Orange County. The stamping of these plan specifications SHALL NOT be held to permit or be an approval of the violation of any provisions of any County Ordinance or State law.

Hadi Tabatabaee
BUILDING OFFICIAL

1

CONSTRUCTION NOTES:

- 1 PROTECT IN PLACE. ITEM PER PLAN.
- 2 CONTRACTOR TO REPLACE SURFACE IN KIND.
- 3 WHERE TRENCH ENCOUNTERS PCC, CONTRACTOR TO MATCH TO EXISTING PCC PAVEMENT, AT 5" PCC SIDEWALK PER CITY OF DANA POINT STD. PLAN DP-101.
- 4 REMOVE AND REPLACE PCC STEPS IN KIND (5.5" RISERS).
- 5 REMOVE PULLBOX PER SEPARATE PLAN.

DOMESTIC WATER NOTES:

- 1 FURNISH AND INSTALL 2" PVC SCH 80 WATER LINE, FITTINGS AND BENDS. TRENCH AND BEDDING PER DETAIL ON SHEET 9 AND GEOTECHNICAL RECOMMENDATIONS.
- 2 FURNISH AND INSTALL 3" PVC SCH 80 WATER LINE, FITTINGS AND BENDS. TRENCH AND BEDDING PER DETAIL ON SHEET 9 AND GEOTECHNICAL RECOMMENDATIONS.
- 3 TRENCHING AND BEDDING TO BE MODIFIED PER DETAIL ON SHEET 9 AND GEOTECHNICAL RECOMMENDATIONS WHERE GROUNDWATER IS ENCOUNTERED.
- 4 2" WATER METER CONNECTION TO WATER MAIN PER SEPARATE SCWD PLAN AND PERMIT.
- 5 3" WATER METER CONNECTION TO WATER MAIN PER SEPARATE SCWD PLAN AND PERMIT.
- 6 INSTALL 2" BACKFLOW PREVENTER PER SCWD STD. DWG. W-14 ON SHEET 12.
- 7 INSTALL 3" BACKFLOW PREVENTER PER SCWD STD. DWG. W-15 ON SHEET 12.
- 8 INSTALL TEMPORARY CAP UNTIL CONNECTING TO WATER LINE AT GANGWAY. CONTRACTOR TO COORDINATE CONNECTION TIMING WITH BELLINGHAM MARINE. SEE MARINA UTILITY PLAN FOR WATER LINE VALVE INSTALLATION.

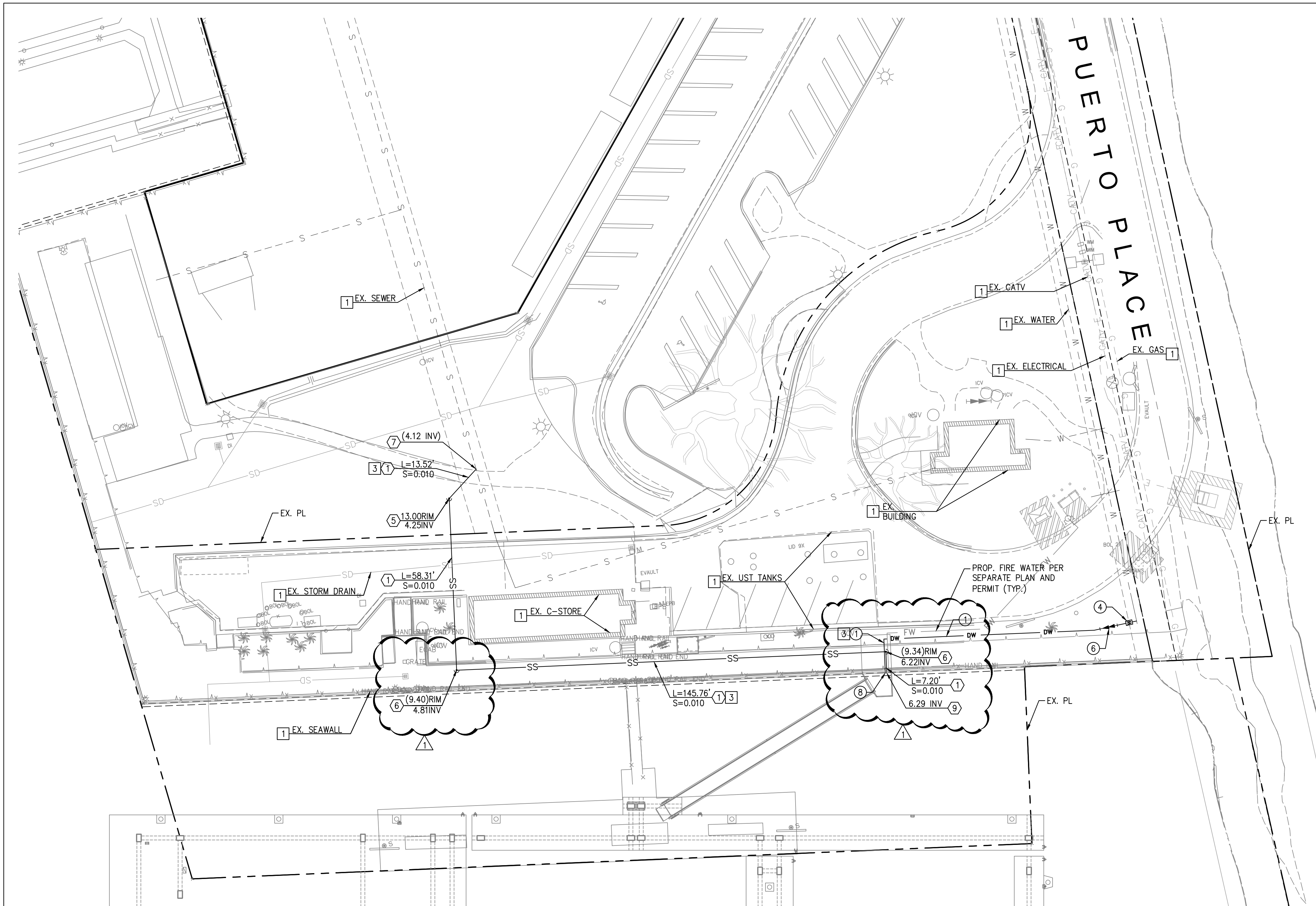
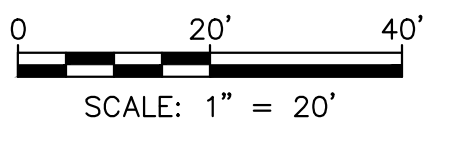
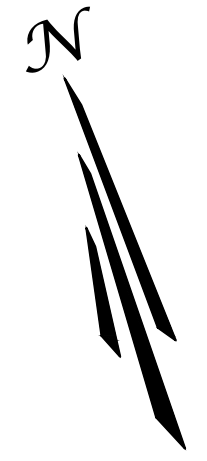
SEWER NOTES:

- 1 FURNISH AND INSTALL 4" PVC (SDR 35) SEWER LINE, FITTINGS AND BENDS. TRENCH AND BEDDING PER DETAIL ON SHEET 9 AND GEOTECHNICAL RECOMMENDATIONS.
- 2 FURNISH AND INSTALL 6" PVC (SDR 35) SEWER LINE, FITTINGS AND BENDS. TRENCH AND BEDDING PER DETAIL ON SHEET 9 AND GEOTECHNICAL RECOMMENDATIONS.
- 3 TRENCHING AND BEDDING TO BE MODIFIED PER DETAIL ON SHEET 9 AND GEOTECHNICAL RECOMMENDATIONS WHERE GROUNDWATER IS ENCOUNTERED.
- 4 CONSTRUCT SEWER MANHOLE PER SCWD STD. DWG. S-1 ON SHEET 13. ALL MANHOLES SHALL BE LINED USING LINER FROM APPROVED MATERIAL LIST AND COMPOSITE LIDS.
- 5 INSTALL 45° BEND.
- 6 INSTALL SEWER CLEANOUT PER SCWD STD. DWG. S-10 ON SHEET 14.
- 7 CONNECT 4" SEWER LATERAL TO EXISTING SEWER LINE PER SCWD STD. DWG. S-6 ON SHEET 14.
- 8 CONNECT 6" SEWER LATERAL TO EXISTING SEWER LINE PER SCWD STD. DWG. S-6 ON SHEET 14.
- 9 INSTALL TEMPORARY CAP UNTIL CONNECTING TO SEWER LINE AT GANGWAY. CONTRACTOR TO COORDINATE CONNECTION TIMING WITH BELLINGHAM MARINE.

NOTE TO CONTRACTOR:

IT IS THE CONTRACTOR'S RESPONSIBILITY TO REPAIR ANY UTILITIES THAT ARE IN CONFLICT WITH PROPOSED IMPROVEMENTS. CONTRACTOR TO REPAIR, CUT, AND CAP ANY DAMAGED LANDSCAPE OR IRRIGATION. CONTRACTOR TO PROTECT ALL EXISTING TREES.

EXISTING UTILITY LOCATIONS HAVE NOT BEEN VERIFIED. CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING UTILITIES AND INFORM ENGINEER OF ANY DISCREPANCIES OR CHANGES NECESSARY TO THE PROPOSED UTILITIES. CONTRACTOR TO REPAIR ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION OF PROPOSED UTILITIES.



A-D

NO.	DATE	DESCRIPTION	CD	BY
1	10/07/22	REVISED WET UTILITY TRENCH AND SEWER LINES	CD	
REVISIONS				

PREPARED UNDER THE SUPERVISION OF:

TAIT
Since 1964

701 N. Parkcenter Drive
Santa Ana, CA 92705
p: 714/560/8200 f: 714/560/8211
www.tait.com

Los Angeles Sacramento San Francisco Dallas Phoenix
Ontario San Diego Boise Denver Portland

JACOB VANDERVIS R.C.E. No. C46301 DATE 10/12/22

GEOTECHNICAL ENGINEER SEAL

PROJECT NUMBER: ME0381

ENGINEER / DESIGNER: TAIT

PROJECT MANAGER: DM

CHECKED BY: JV

DANA POINT HARBOR REVITALIZATION

Harbor Drive
Dana Point, CA 92629

PRIVATE DOMESTIC WATER AND SEWER PLAN
GUEST DOCKS PRIVATE UTILITY PLAN

SCALE: SEE ON SHEET

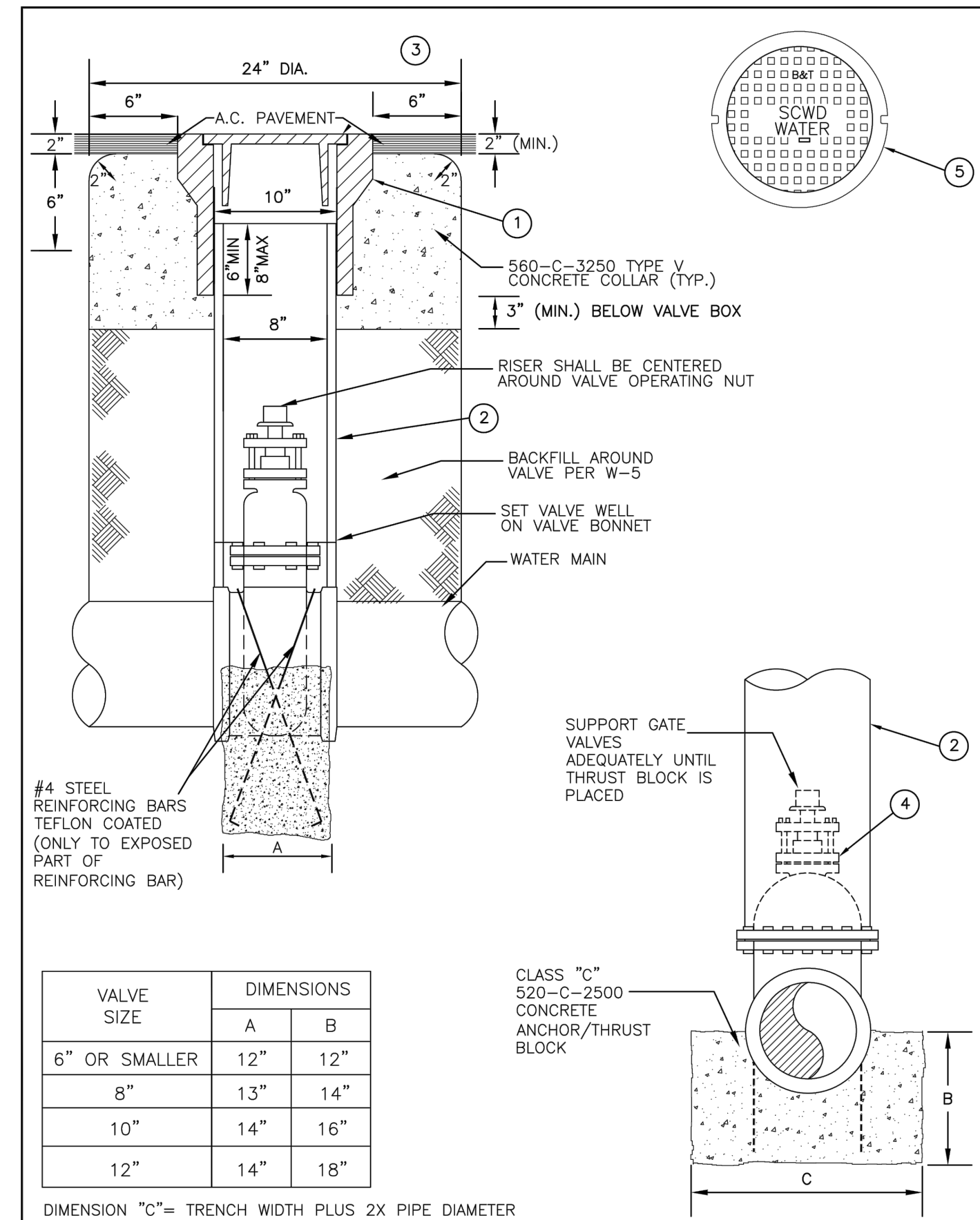
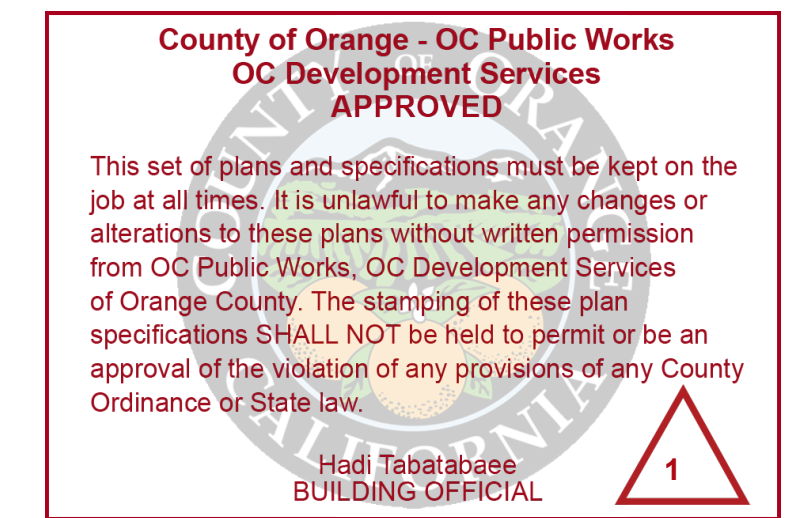
DRAWN BY: TAIT

DATE: 10/12/2022

DRAWING: ME0381

SHEET NO.: 10

K:\Drawings\ME\ME03810 - Dana Point Harbor\ENG\Construction Drawings\Marina\Gangways\Phase\Private Utilities\ME03810_GD_PH1_UT_PRIV.dwg PLOTTED: 10/12/2022 5:13:10 PM BY: Chris Dicker



VALVE SIZE	DIMENSIONS	
	A	B
6" OR SMALLER	12"	12"
8"	13"	14"
10"	14"	16"
12"	14"	18"

DIMENSION "C" = TRENCH WIDTH PLUS 2X PIPE DIAMETER

VALVE BOX ASSEMBLY
SOUTH COAST WATER DISTRICT

REVISION	BY	DATE	APPROVED	DATE	STD. NO.
ORIGINAL			CHIEF ENGINEER		W-6
UPDATE		2014			
UPDATE	TK	2022	APPROVED		
			DIRECTOR OF OPERATIONS		SHEET 1 OF 3

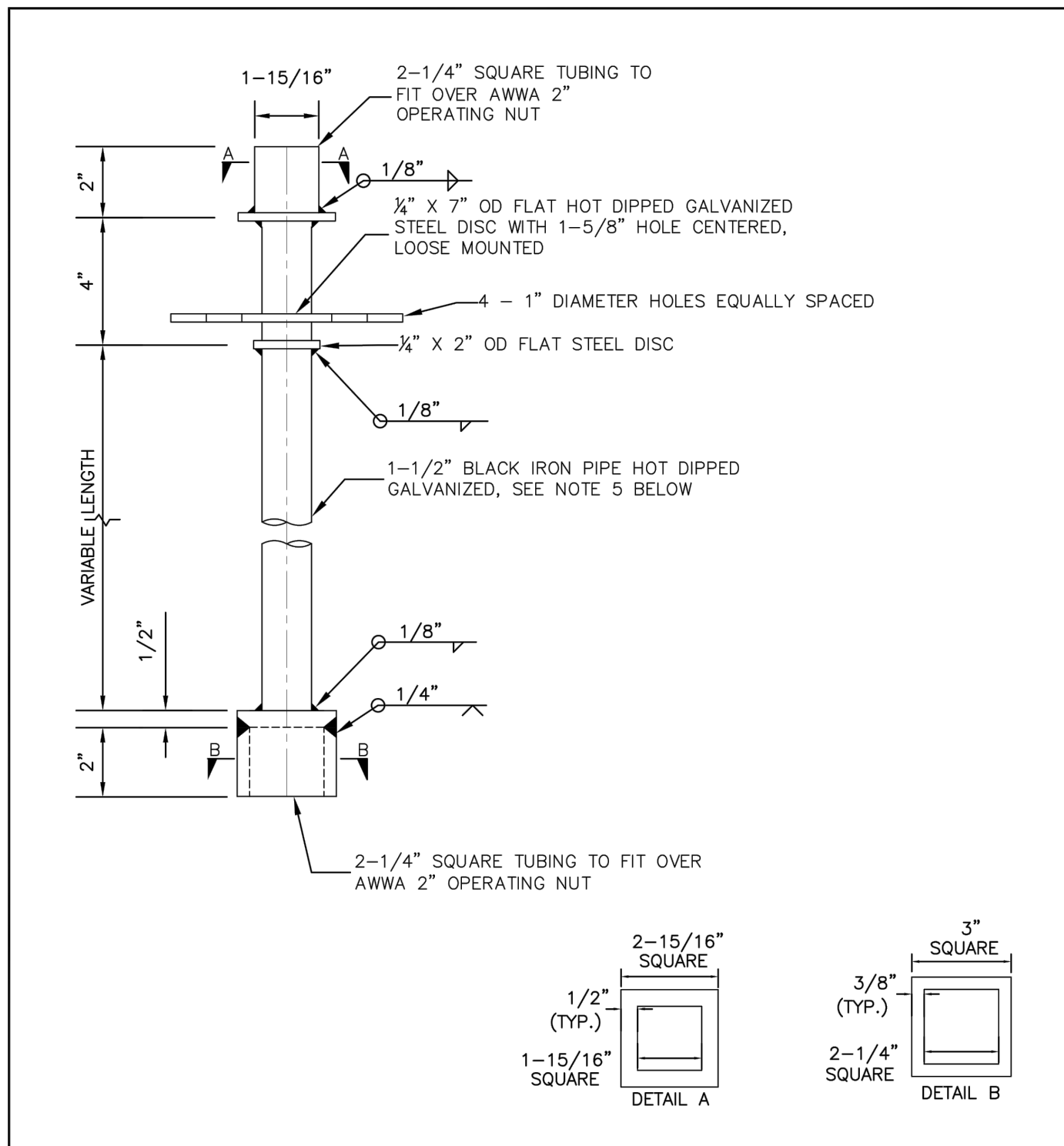
- NOTES:**
1. PROVIDE VALVE STEM EXTENSION. IF DEPTH TO VALVE NUT EXCEEDS 4 FEET FROM FINISHED GRADE, SEE SHEET 3.
 2. FOR VALVE INSTALLATIONS IN NEW TRACTS UNDER CONSTRUCTION, CONTRACTOR SHALL EXTEND VALVE WELL 2 FEET ABOVE INTERIM GRADE, AS DIRECTED BY SCWD INSPECTOR, UNTIL FINISH GRADE IS ESTABLISHED.
 3. THE WORDS "SCWD WATER" ON VALVE LID SHALL BE INSTALLED PARALLEL TO THE MAIN.
 4. VALVES BOLTED TO FITTINGS SHALL NOT REQUIRE ANCHOR/THRUST BLOCKS.
 5. COAT ALL FITTINGS, VALVES, AND HARDWARE WITH NON-OXIDIZING GREASE AND WRAP WITH 8 MIL POLYWRAP WITH V-BIOCIDE PRIOR TO INSTALLING REBAR.

LIST OF MATERIALS

ITEM	DESCRIPTION	MANUFACTURER	MODEL
1	10" HEAVY VALVE BOX, MARK V, RIM CLASS 35, NO FLG	BINGHAM AND TAYLOR	CUL10RHVY
2	8" VALVE WELL SDR-35 PVC PIPE	VINYL TECH, N.A.P.C.O., NORTHERN PIPE PRODUCTS, OR APPROVED EQUAL	
3	10" HEAVY LID WITH 4" SKIRT, MARK V, WATER RIM CLASS 35	BINGHAM AND TAYLOR	CUL10UWY4SCWDW
4	RESILIENT WEDGE GATE VALVE	MUELLER	2362 SERIES

VALVE BOX ASSEMBLY
SOUTH COAST WATER DISTRICT

REVISION	BY	DATE	APPROVED	DATE	STD. NO.
ORIGINAL			CHIEF ENGINEER		W-6
UPDATE		2014			
UPDATE	TK	2022	APPROVED		
			DIRECTOR OF OPERATIONS		SHEET 2 OF 3



- NOTES:**
1. FABRICATE EXTENSION TO FIELD MEASUREMENT - SEE NOTE 2.
 2. NO VALVE STEM EXTENSION SHALL BE LESS THAN 2 FEET IN LENGTH. TERMINATE EXTENSION 24" FROM FINISHED GRADE.
 3. PROVIDE ADDITIONAL SPACER PLATE WHEN DISTANCE TO BOTTOM SOCKET EXCEEDS 5 FEET.
 4. EXTENSION STEM SHALL NOT BE ATTACHED/BOLTED TO OPERATING NUT OF THE VALVE.
 5. EXTENSION STEMS SHALL BE ROUND OR SQUARE STEEL BAR STOCK OF SOLID DESIGN (NO PINNED COUPLINGS, HOLLOW TUBE, OR PIPE PERMITTED).
 6. VALVES DEEPER THAN 4 FEET REQUIRE A VALVE STEM EXTENSION.

VALVE EXTENSION STEM
SOUTH COAST WATER DISTRICT

REVISION	BY	DATE	APPROVED	DATE	STD. NO.
ORIGINAL			CHIEF ENGINEER		W-6
UPDATE		2014			
UPDATE	TK	2022	APPROVED		
			DIRECTOR OF OPERATIONS		SHEET 3 OF 3

NO.	DATE	DESCRIPTION	BY
REVISIONS			

PREPARED UNDER THE SUPERVISION OF:

TAIT
Since 1964

701 N. Parkcenter Drive
Santa Ana, CA 92705
p: 714/560/8200 f: 714/560/8211
www.tait.com

Los Angeles Ontario Sacramento San Diego San Francisco Boise Dallas Denver Portland Phoenix

10/12/22
DATE

JACOB VANDERVIS R.C.E. No. C46301

GEOTECHNICAL ENGINEER SEAL

PROJECT NUMBER: ME0381

ENGINEER / DESIGNER: TAIT

PROJECT MANAGER: DM

CHECKED BY: JV

DANA POINT HARBOR REVITALIZATION

Harbor Drive
Dana Point, CA 92629

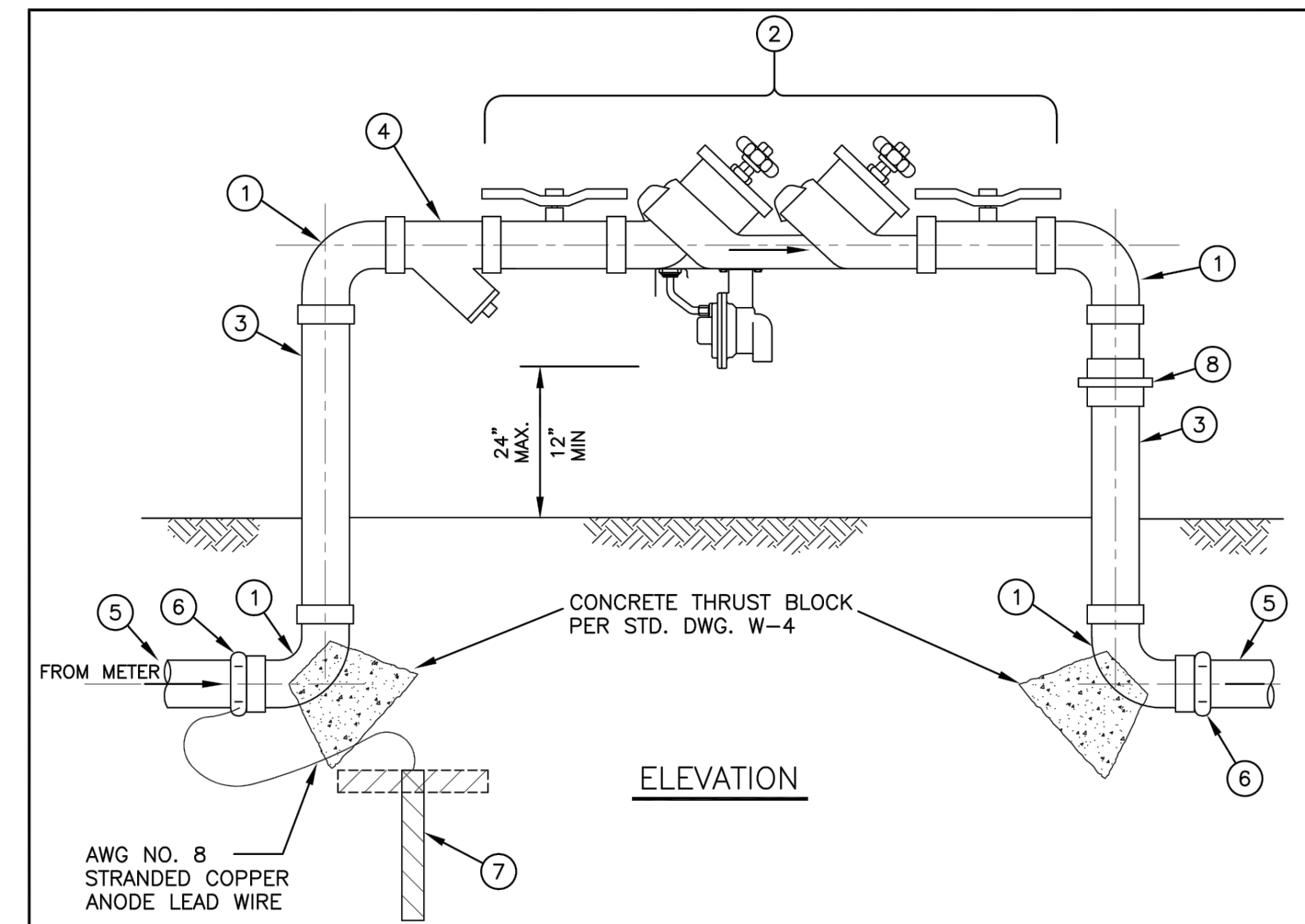
PRIVATE DOMESTIC WATER AND SEWER PLAN
WATER DETAILS

SCALE:	SEE ON SHEET
DRAWN BY:	TAIT
DATE:	10/12/2022
DRAWING:	ME0381
SHEET NO.:	11

**County of Orange - OC Public Works
OC Development Services
APPROVED**

This set of plans and specifications must be kept on the job at all times. It is unlawful to make any changes or alterations to these plans without written permission from OC Public Works, OC Development Services of Orange County. The stamping of these plan specifications SHALL NOT be held to permit or be an approval of the violation of any provisions of any County Ordinance or State law.

Hadi Tabatabaee
BUILDING OFFICIAL



- NOTES:**
1. NOTIFY DISTRICT PRIOR TO INSTALLATION OF UNIT.
 2. INSTALLATION SHALL COMPLY WITH THE LATEST PLUMBING CODES AND APPLICABLE LOCAL AGENCY REQUIREMENTS. THE DEVICE SHALL BE LEAD FREE FOR DOMESTIC SERVICE.
 3. UPON COMPLETION OF THE INSTALLATION OF THE DEVICE, A TEST SHALL BE PERFORMED AND A CERTIFICATE OF ADEQUACY AND OPERATIONAL COMPLIANCE SHALL BE FURNISHED TO SCWD. THE TEST SHALL BE PERFORMED BY A TESTING AGENCY CERTIFIED BY THE ORANGE COUNTY ENVIRONMENTAL HEALTH AGENCY.
 4. PLACE ANODE AT LEAST 2" FROM COPPER TUBING.
 5. DEVICE SHALL NOT BE LOCATED WITHIN THE PUBLIC RIGHT OF WAY, BUT SHALL BE SET BACK AT LEAST 1 FOOT BEHIND RIGHT OF WAY ON PRIVATE PROPERTY.
 6. NO CONNECTIONS ALLOWED BETWEEN THE METER AND THE DEVICE.

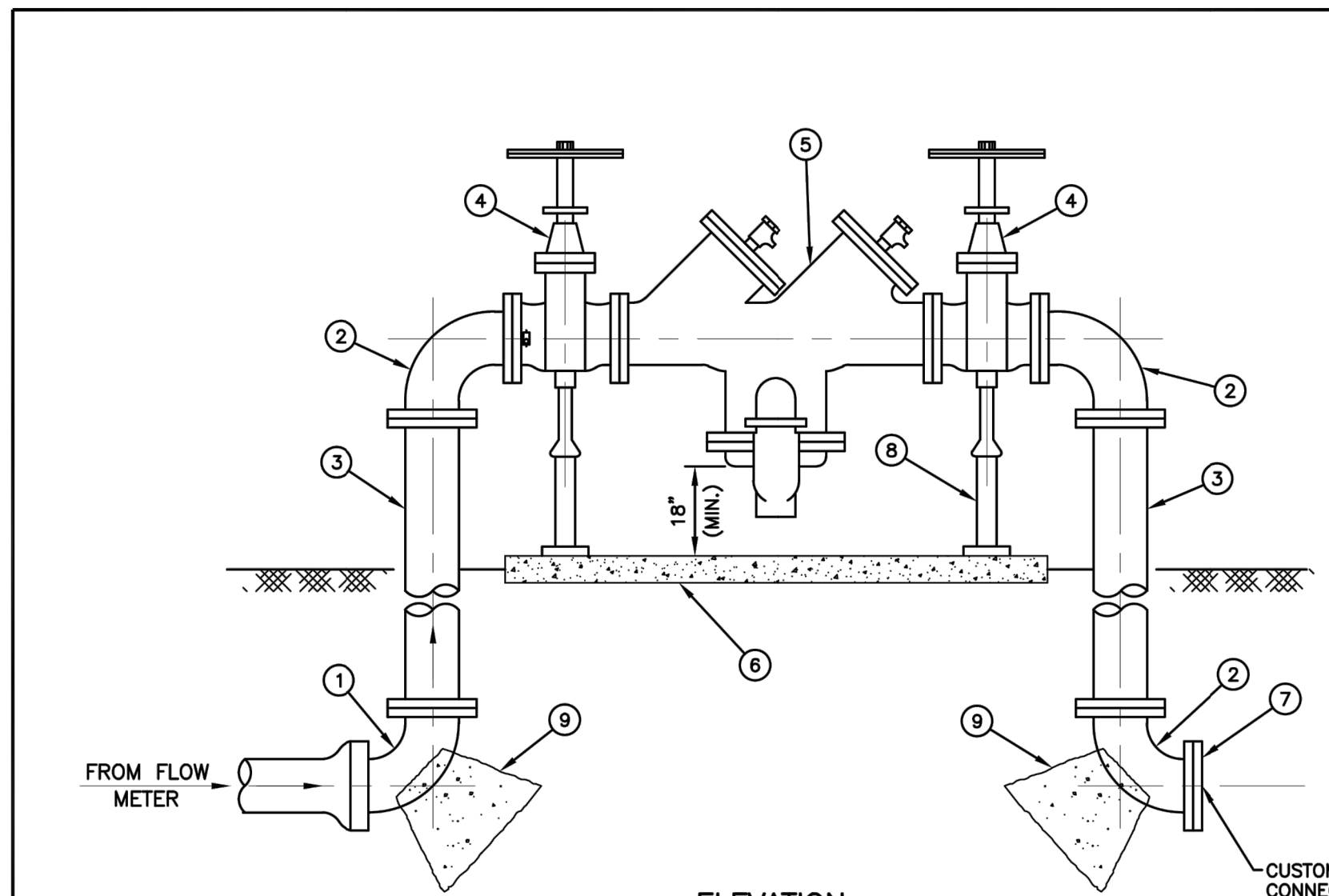
LIST OF MATERIALS

ITEM	DESCRIPTION	MANUFACTURER	MODEL
1	FNTP X FNTP BRASS 90° ELL		
2	USC HYDRAULIC INSTITUTE APPROVED/LISTED BACKFLOW PREVENTION ASSEMBLY		
3	THREADED BRASS NIPPLE		
4	WYE STRAINER, BRONZE		
5	TYPE K COPPER TUBING	MUELLER STREAMLINE CERRO FLOW PRODUCTS	ASTM-B88
6	HARD COPPER WITH MALE ADAPTOR		
7	ZINC ANODE AND LEAD WIRE	NORTHTOWN	NO 8 STRANDED WIRE
8	BRASS UNION		

REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY; SIZES 3/4" THROUGH 2 1/2"

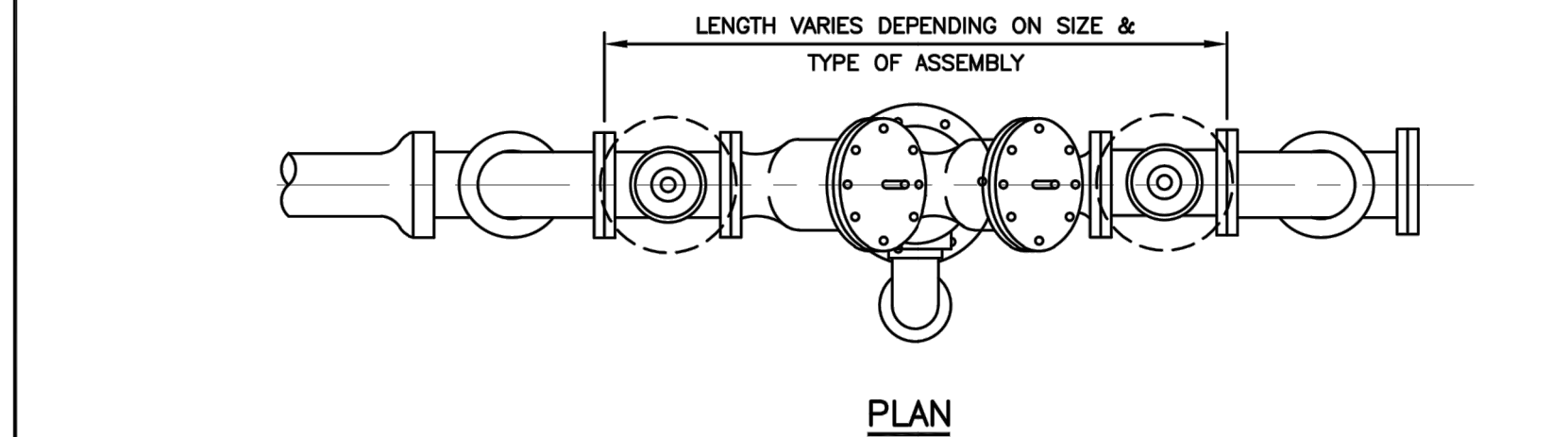
REVISION	BY	DATE	APPROVED	DATE	STD. NO.
ORIGINAL			CHIEF ENGINEER		W-14
UPDATE	TK	2014	APPROVED		
UPDATE		2020	DIRECTOR OF OPERATIONS		

SHEET 1 OF 1



- MATERIALS**
- | | | |
|---|--|----------|
| 1 | FLG x PO D.I.P. 90° ELL | 33 11 11 |
| 2 | FLG x FLG D.I.P. 90° ELL | 33 11 11 |
| 3 | FLG x FLG D.I.P. SPOOL | 33 11 11 |
| 4 | FLG x FLG OS&Y RISING STEM RW GATE VALVE | 33 12 12 |
| 5 | USC-LISTED REDUCED-PRESSURE (RP) BACKFLOW PREVENTION ASSEMBLY | 33 12 09 |
| 6 | CLASS B (520-A-2500) CONCRETE PAD WITH WIRE-MESH REINFORCEMENT | 03 30 00 |
| 7 | D.I.P. BLIND FLG | 33 11 11 |
| 8 | ADJUSTABLE PIPE SUPPORT SEE STD. DWG. W-19 | 33 05 38 |
| 9 | CONCRETE THRUST BLOCK PER STD. DWG. W-4 | 03 30 00 |

- NOTES:**
1. REQUIRED ON ALL IRRIGATION SERVICES USING POTABLE WATER.
 2. NOTIFY DISTRICT PRIOR TO INSTALLATION OF UNIT.
 3. INSTALLATION SHALL COMPLY WITH THE LATEST PLUMBING CODE AND APPLICABLE LOCAL AGENCY REQUIREMENTS.
 4. UPON COMPLETION OF THE INSTALLATION OF THE DEVICE, A TEST SHALL BE PERFORMED AND A CERTIFICATE OF THE ADEQUACY AND OPERATIONAL COMPLIANCE SHALL BE FURNISHED TO SCWD. THE TEST SHALL BE PERFORMED BY A TESTING AGENCY CERTIFIED BY THE ORANGE COUNTY HEALTH DEPARTMENT.



SOUTH COAST WATER DISTRICT STANDARD DRAWING

2014	REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLY; SIZES 3" AND LARGER	W-15	SHEET 1 OF 1
------	--	------	--------------

K:\24871\0001\CAD\Std Dwg\W-15.dwg

NO.	DATE	DESCRIPTION	BY
REVISIONS			

PREPARED UNDER THE SUPERVISION OF:

TAIT
Since 1964

701 N. Parkcenter Drive
Santa Ana, CA 92705
p: 714/560/8200 f: 714/560/8211
www.tait.com

Los Angeles Ontario Sacramento San Diego San Francisco Boise Dallas Denver Phoenix Portland

JACOB VANDERVIS R.C.E. No. C46301 10/12/22 DATE

GEOTECHNICAL ENGINEER SEAL

PROJECT NUMBER: ME0381

ENGINEER / DESIGNER: TAIT

PROJECT MANAGER: DM

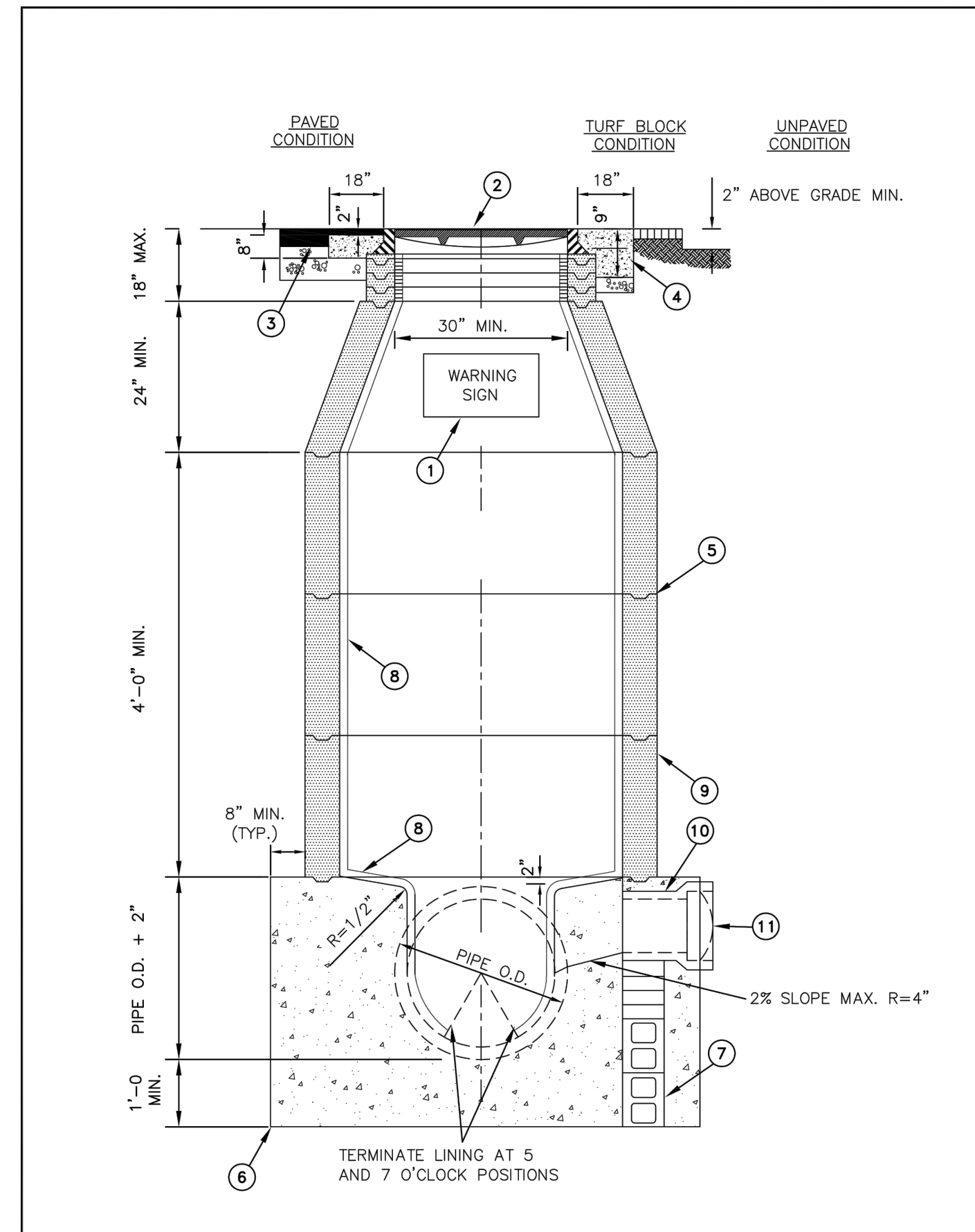
CHECKED BY: JV

DANA POINT HARBOR REVITALIZATION

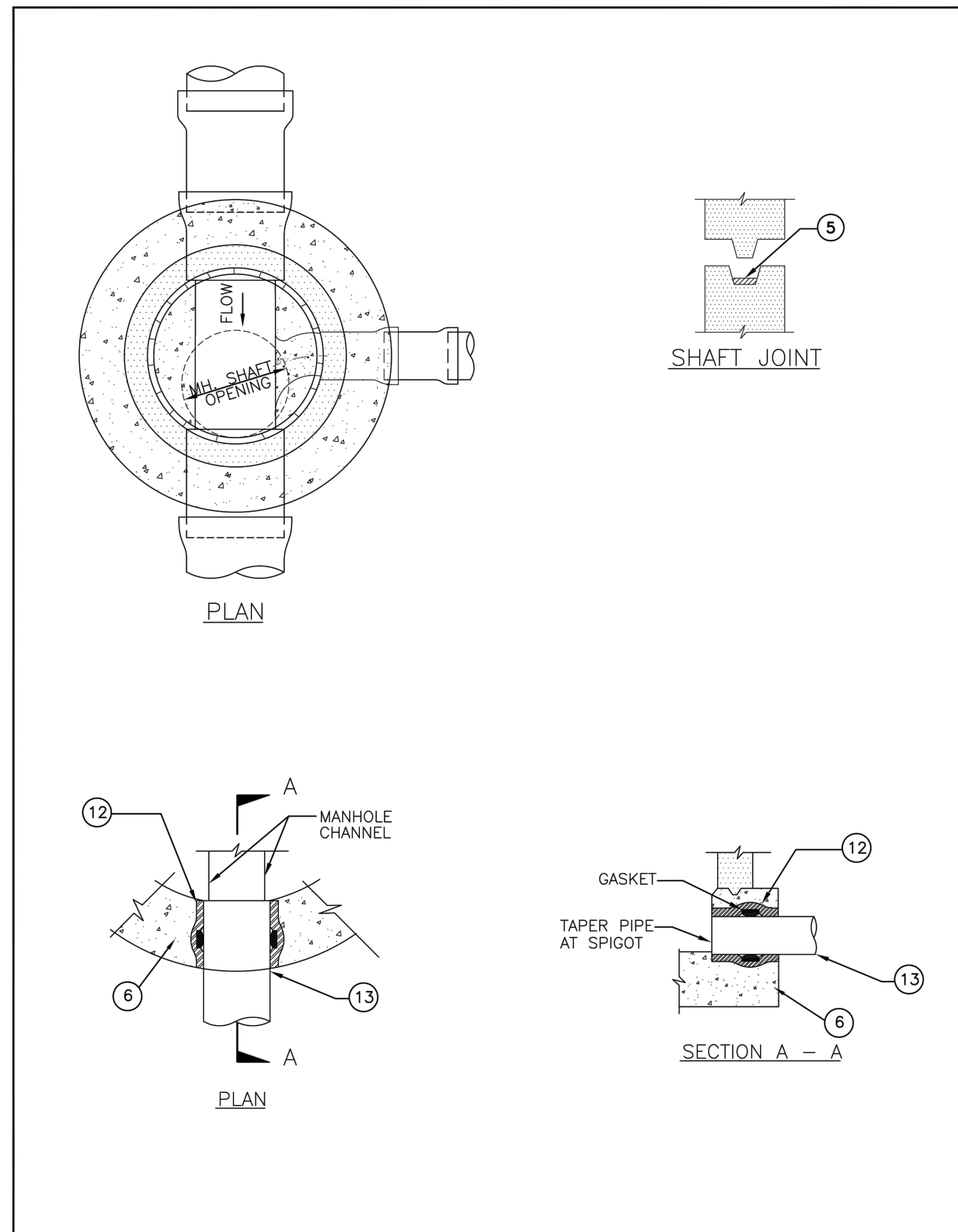
Harbor Drive
Dana Point, CA 92629

PRIVATE DOMESTIC WATER AND SEWER PLAN
WATER DETAILS

SCALE:	SEE ON SHEET
DRAWN BY:	TAIT
DATE:	10/12/2022
DRAWING:	ME0381
SHEET NO.:	12



SEWER MANHOLE				SOUTH COAST WATER DISTRICT		STD. NO. S-1	
REVISION	BY	DATE	APPROVED	DATE	DATE	DATE	SHEET 1 OF 3
ORIGINAL		2014	CHIEF ENGINEER				
UPDATE	TK	2020					
UPDATE			DIRECTOR OF OPERATIONS				



SEWER MANHOLE				SOUTH COAST WATER DISTRICT		STD. NO. S-1	
REVISION	BY	DATE	APPROVED	DATE	DATE	DATE	SHEET 2 OF 3
ORIGINAL		2014	CHIEF ENGINEER				
UPDATE	TK	2020					
UPDATE			DIRECTOR OF OPERATIONS				

- NOTES:**
- PLACE TWO HALF MOON SHAPED PLYWOOD COVERS (3/4" THICK MIN.) ON BOTTOM OF MANHOLE AFTER SHAFTS HAVE BEEN SET TO KEEP DEBRIS FROM ENTERING SEWER. REMOVE PLYWOOD PRIOR TO FINAL ACCEPTANCE.
 - ALL INLETS AND OUTLETS SHALL BE SUPPORTED WITH CONCRETE BLOCK AND/OR BRICK SUPPORTS, PRIOR TO POURING MANHOLE BASE TO PREVENT PIPE MOVEMENT DURING CONSTRUCTION OF MANHOLE BASE.
 - ALL PRECAST CONCRETE MANHOLE SHAFTS SHALL BE MANUFACTURED PER SCWD STD. SPEC. SECTION 03461.
 - BASE SHALL BE POURED AGAINST UNDISTURBED SOIL. IF SOIL IS DISTURBED, OR IF GROUND WATER EXISTS, CRUSHED ROCK SHALL BE INSTALLED BENEATH BASE PER SCWD STD. SPEC. SECTION 02223.
 - CONCRETE BASE SHALL BE CONCRETE CLASS "A", CAST IN PLACE MONOLITHICALLY.
 - PERFORMED COLD-APPLIED READY-TO-USE PLASTIC JOINT SEALING COMPOUND SHALL BE USED FOR ALL MANHOLE JOINTS. REMOVE EXCESS FROM SURFACES INSIDE MANHOLE.
 - MANHOLES SHALL NOT BE PLACED IN SIDEWALKS OR IN CONCRETE DRIVEWAY APRONS.
 - MANHOLES DEEPER THAN 20'-0" TO TOP OF PIPE SHALL BE DESIGNED BY A REGISTERED CIVIL ENGINEER.
 - PAINTED WARNING SIGN SHALL HAVE WHITE BACKGROUND AND BLACK LETTERS.
 - MANHOLE MUST BE CONSTRUCTED AS SHOWN HEREON REGARDLESS OF CONSTRUCTION PHASE. NO INTERIM CONDITIONS WILL BE ACCEPTED.
 - STREET REHABILITATION AND/OR ASPHALT OVERLAY PROJECTS SHALL NOT INTERRUPT THE SERVICE FUNCTION OF ANY SEWER MANHOLES AND EMERGENCY ACCESS SHALL BE MAINTAINED AT ALL TIMES. MANHOLES THAT ARE PAVED OVER DURING CONSTRUCTION SHALL BE RAISED TO GRADE NO LATER THAN THREE DAYS AFTER THEY WERE PAVED OVER.

LIST OF MATERIALS			
ITEM	DESCRIPTION	MANUFACTURER	MODEL
1	STENCILED WARNING SIGN WITH WHITE BACKING. SEE SCWD STD. DWG. S-3		
2	36" DIAM. CAST IRON TRAFFIC RATED FRAME AND COVER, MARKED WITH "SEWER" AND "SCWD"	ALHAMBRA FOUNDRY	A-1251
3	ROUND CLASS "B" CONCRETE COLLAR AND AC PAVEMENT		SFB 1251-6
4	SQUARE CLASS "B" CONCRETE PAD REINFORCED WITH 6" X 6" W.W.F. 10 GAUGE CENTERED IN CONCRETE		
5	SHAFT JOINT WITH JOINT SEALING COMPOUND. SEE NOTE 6.		
6	CAST IN PLACE CONCRETE MANHOLE BASE. SEE NOTES 6 AND 8.		
7	CONCRETE BLOCK AND/OR BRICK SUPPORT. SEE NOTE 2.		
8	MANHOLE LINER (WHERE REQUIRED). APPLY NON-SKID SURFACE ON TOTAL SHELF AREA.		
9	PRECAST CONCRETE MANHOLE SHAFT, MIN. WALL THICKNESS: 48" DIA. MANHOLE 6" WALL THICKNESS 60" DIA. MANHOLE 6" WALL THICKNESS 72" DIA. MANHOLE 7" WALL THICKNESS	AMERON, B&W PRECAST, MAR-CON PRODUCTS, SOUTHWEST CONCRETE PRODUCTS, UNDERGROUND PRECAST SOLUTIONS, UTILITY VAULT, VERTICAL CONCRETE OLD CASTLE PRECAST	
10	16" LONG VCP INSTALLED THROUGH MANHOLE BASE, FOLLOWED BY A 12" LONG VCP. FOR PVC PIPE REFER TO DETAILS HEREON		
11	TEMPORARY PLUG		
12	FOR SDR-35 PVC PIPE: GASKETED SDR-35 (SDR 26 FOR 15" THRU 18") PVC MANHOLE COUPLING WITH EPOXY RESIN SAND COATING ON EXTERIOR SURFACE. FOR C900 PVC DR 14 PIPE: GASKETED C900 PVC DR 14 MANHOLE COUPLING WITH EPOXY RESIN SAND COATING ON EXTERIOR SURFACE		
13	SDR-35 PVC PIPE	CERTAINTEED CORPORATION, DIAMOND PLASTICS, NORTH AMERICAN SPECIALTY PRODUCTS, PACIFIC WESTERN PIPE, VINYLTECH	
	C900 PVC DR 14	IPEX, NORTH AMERICAN DIAMOND PLASTICS, NORTH AMERICAN SPECIALTY PRODUCTS, PACIFIC WESTERN PIPE, VINYLTECH	

SEWER MANHOLE				SOUTH COAST WATER DISTRICT		STD. NO. S-1	
REVISION	BY	DATE	APPROVED	DATE	DATE	DATE	SHEET 3 OF 3
ORIGINAL		2014	CHIEF ENGINEER				
UPDATE	TK	2020					
UPDATE			DIRECTOR OF OPERATIONS				

NO.	DATE	DESCRIPTION	BY
REVISIONS			

PREPARED UNDER THE SUPERVISION OF:

TAIT
Since 1964

701 N. Parkcenter Drive
Santa Ana, CA 92705
p: 714/560/8200 f: 714/560/8211
www.tait.com

Los Angeles Ontario Sacramento San Diego San Francisco Boise Dallas Denver Portland

JACOB VANDERVIS R.C.E. No. C46301 10/12/22 DATE

GEOTECHNICAL ENGINEER SEAL

PROJECT NUMBER: ME0381

ENGINEER / DESIGNER: TAIT

PROJECT MANAGER: DM

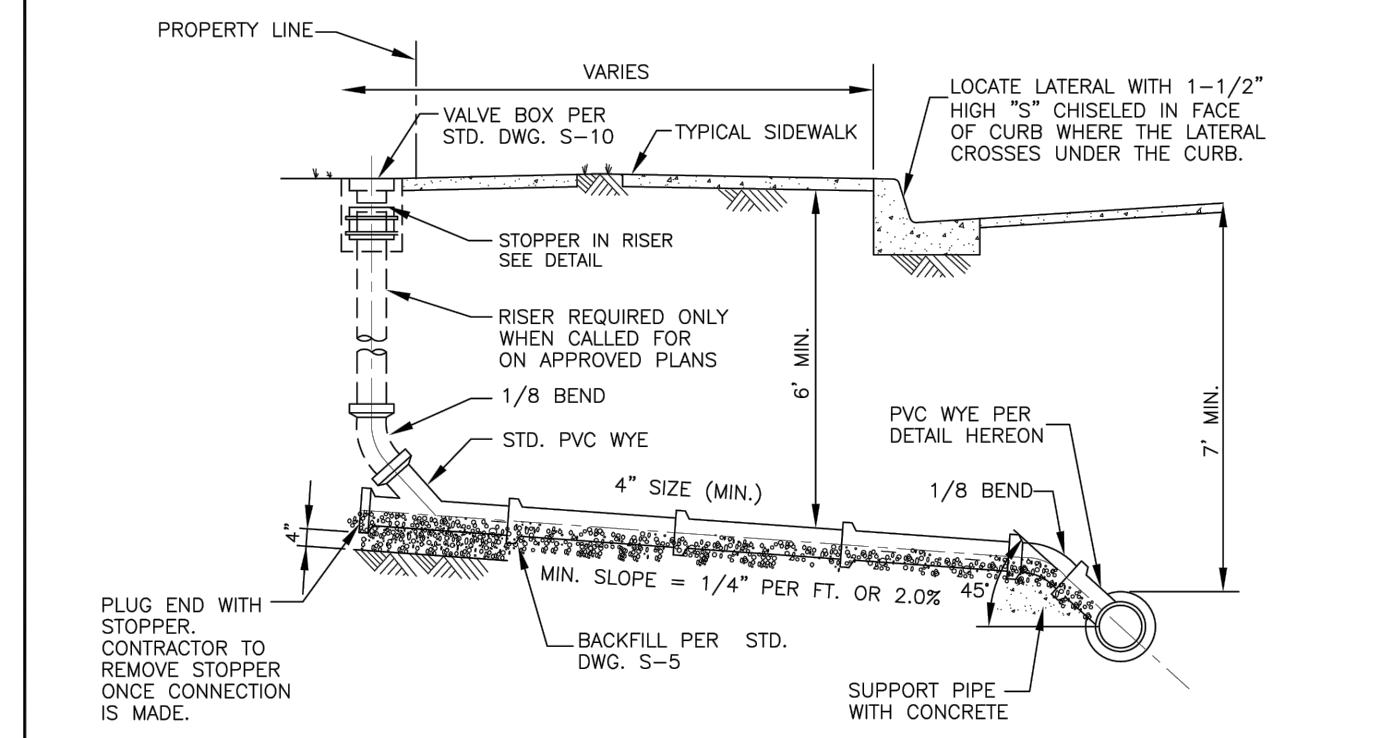
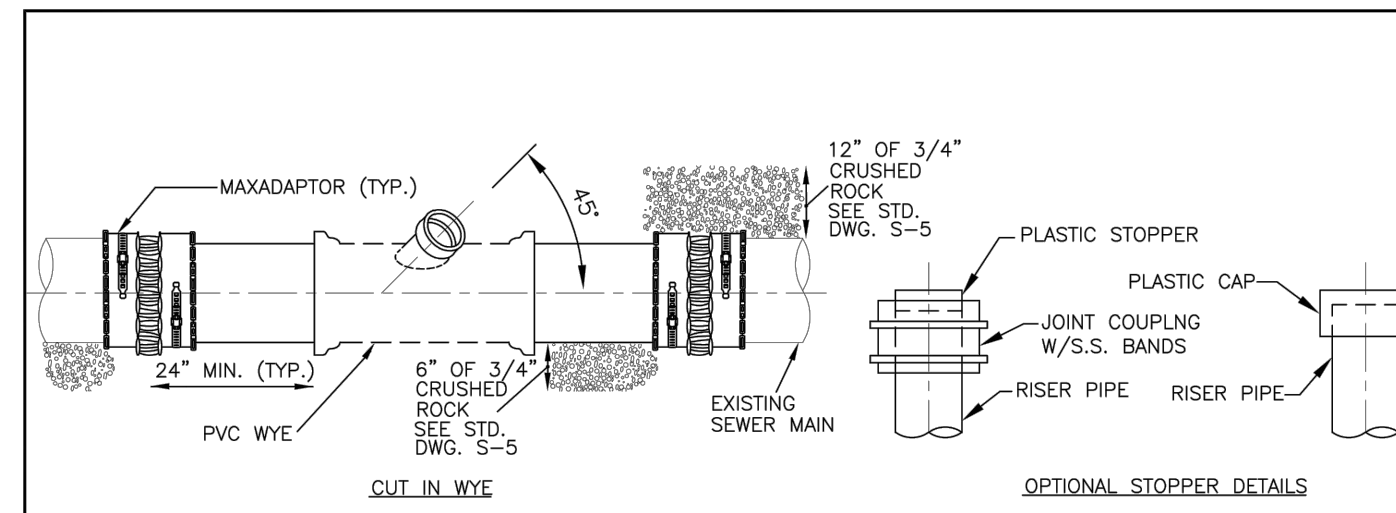
CHECKED BY: JV

DANA POINT HARBOR REVITALIZATION

Harbor Drive
Dana Point, CA 92629

PRIVATE DOMESTIC WATER AND SEWER PLAN
SEWER DETAILS

SCALE:	SEE ON SHEET
DRAWN BY:	TAIT
DATE:	10/12/2022
DRAWING:	ME0381
SHEET NO.:	13

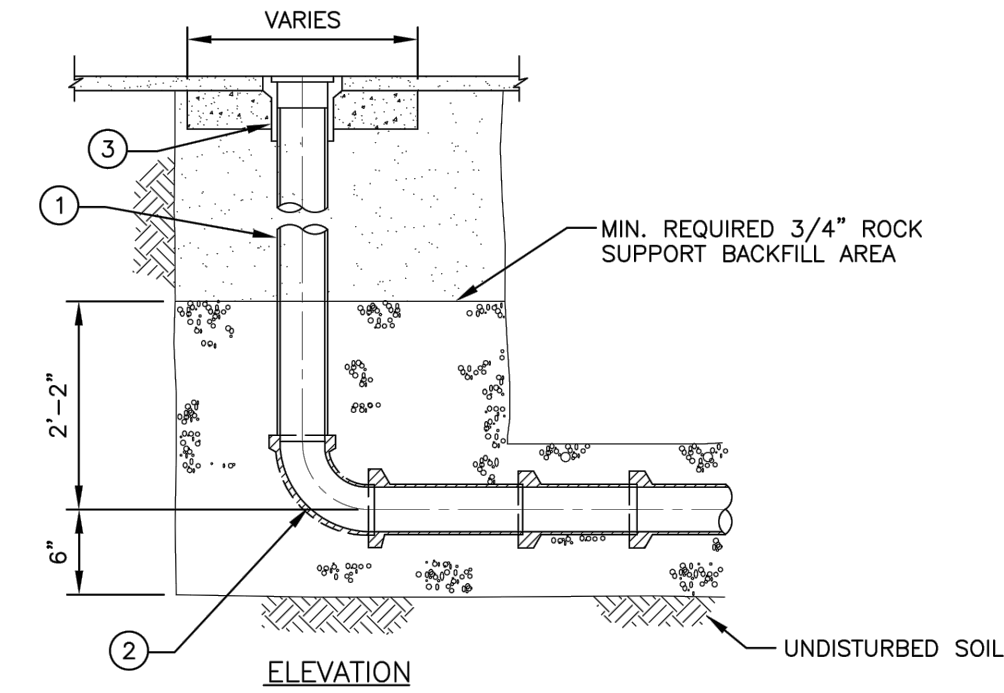
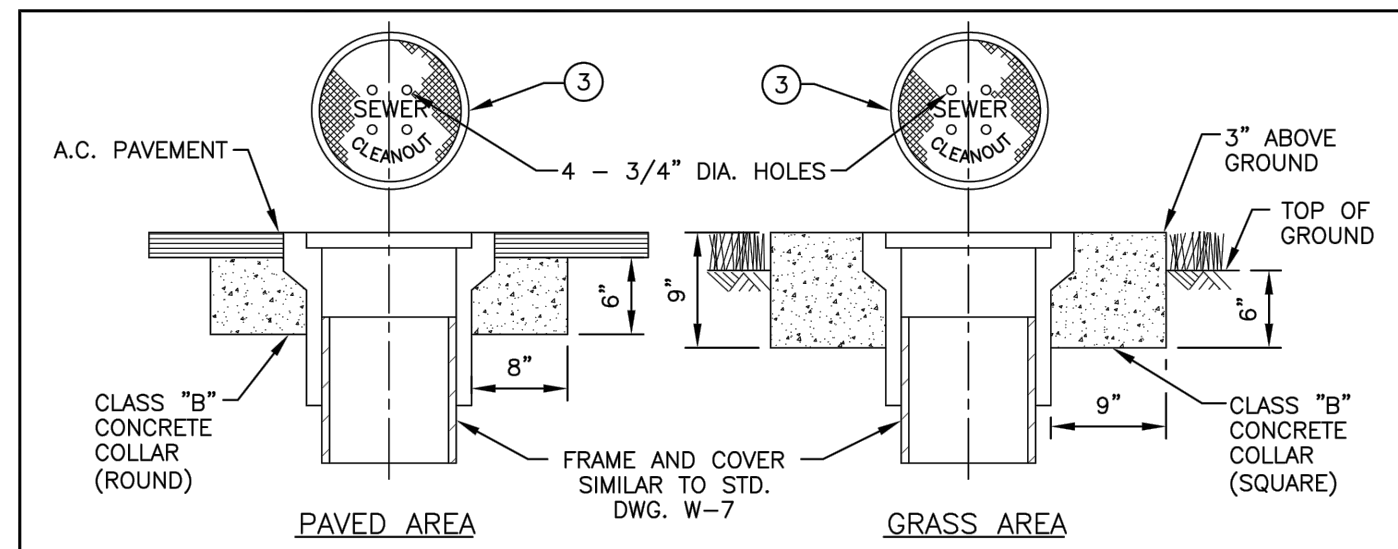


NOTES:

1. IN NO CASE SHALL LATERAL CONNECT DIRECTLY ON TOP OF SEWER MAIN.
2. LATERAL SIZE TO BE DETERMINED BASED ON THE BASIS OF TOTAL NUMBER OF FIXTURE UNITS DRAINED, BUT IN NO CASE SHALL THE LATERAL DIAMETER BE LESS THAN 4 INCHES FOR SINGLE OR MULTIPLE FAMILY RESIDENTIAL AND 6 INCHES FOR COMMERCIAL OR INDUSTRIAL.
3. NO MORE THAN ONE CUT IN WYE WILL BE ALLOWED FOR EACH LENGTH OF EXISTING VCP SEWER MAIN.
4. CONSTRUCT LATERAL TO BE INTO PROPERTY LINE.
5. IF RISER NOT BUILT, PLUG WYE BRANCH WITH STOPPER.
6. SCWD WILL VIDEO EXISTING MAIN AND NEW LATERAL AFTER LATERAL IS BACKFILLED. SCWD SHALL HAVE AT LEAST 48 HOURS ADVANCED NOTICE TO PERFORM VIDEO INSPECTION.
7. SCWD SHALL CONFIRM LOCATION OF TIE INTO EXISTING MAIN BEFORE MAIN IS CUT. PROVIDE 48 HOURS NOTICE.
8. REPAIR DAMAGED PIPE AS DIRECTED BY SCWD.
9. IF MAIN IS LINED, CONTRACTOR SHALL NOT USE SNAP CUTTER. INSTEAD, CONTRACTOR SHALL USE CUTTING TOOL APPROVED BY SCWD.

CUT IN WYE CONNECTION

REVISION	BY	DATE	SOUTH COAST WATER DISTRICT	STD. NO.
ORIGINAL	TK	2018		S-6
UPDATE			APPROVED CHIEF ENGINEER DATE	
UPDATE			APPROVED DIRECTOR OF OPERATIONS DATE	SHEET 1 OF 1



NOTES:

1. CLEANOUT RISER, WHERE REQUIRED, TO BE SAME SIZE AND KIND OF MATERIAL AS MAIN.
2. CLEANOUTS WILL NOT BE USED ON DISTRICT MAINS.
3. SEWER MAINS LARGER THAN 8" SHALL HAVE TERMINAL MANHOLE.
4. USE BAND SEAL RUBBER REDUCER (VCP/PVC) WHEN VCP IS USED.
5. CLEANOUT SHALL NOT BE INSTALLED IN SIDEWALK, WALKWAY, CONCRETE SURFACE AREA, OR ANY PATH OF TRAVEL.
6. CONSTRUCT FRAME, COVER, AND CONCRETE COLLAR PER "PAVED" OR "UNPAVED" CONDITION HEREON.

ITEM	DESCRIPTION	MANUFACTURER	MODEL
1	8" CLEANOUT RISER WHEN CALLED FOR ON PLAN, SEE NOTE 1		
2	8" 45° BEND, LONG RADIUS SWEEP (VCP ONLY)		
3	PRECAST BOX, FRAME, AND COVER MARKED "SEWER CLEANOUT"	BROOKS EISEL ENTERPRISES	H&C #10

SEWER CLEANOUT

REVISION	BY	DATE	SOUTH COAST WATER DISTRICT	STD. NO.
ORIGINAL		2014		S-10
UPDATE	TK	2020	APPROVED CHIEF ENGINEER DATE	
UPDATE			APPROVED DIRECTOR OF OPERATIONS DATE	SHEET 1 OF 1

NO.	DATE	DESCRIPTION	BY
REVISIONS			

PREPARED UNDER THE SUPERVISION OF:

TAIT
Since 1964

701 N. Parkcenter Drive
Santa Ana, CA 92705
p: 714/560/8200 f: 714/560/8211
www.tait.com

Los Angeles Sacramento San Francisco Dallas Phoenix
Ontario San Diego Boise Denver Portland

JACOB VANDERVIS R.C.E. No. C46301 10/12/22 DATE

GEOTECHNICAL ENGINEER SEAL

PROJECT NUMBER: ME0381

ENGINEER / DESIGNER: TAIT

PROJECT MANAGER: DM

CHECKED BY: JV

DANA POINT HARBOR REVITALIZATION

Harbor Drive
Dana Point, CA 92629

**PRIVATE DOMESTIC WATER AND SEWER PLAN
SEWER DETAILS**

SCALE: SEE ON SHEET

DRAWN BY: TAIT

DATE: 10/12/2022

DRAWING: ME0381

SHEET NO.: 14