

CITY OF OCEANSIDE PLANS FOR THE CONSTRUCTION OF: **511 PUMP STATION 100 % DESIGN**

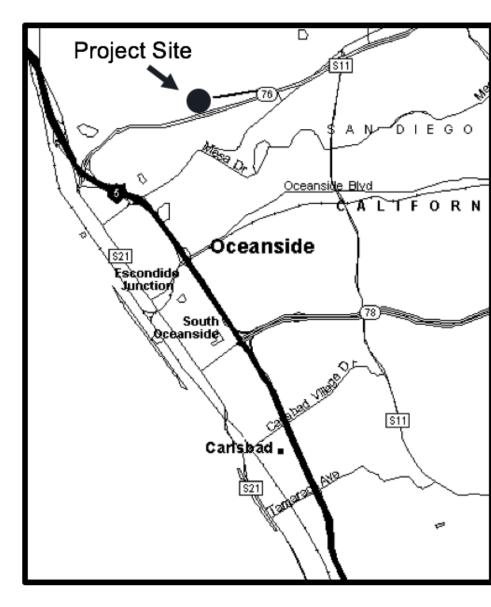
MAY 2020

SHEET INDEX

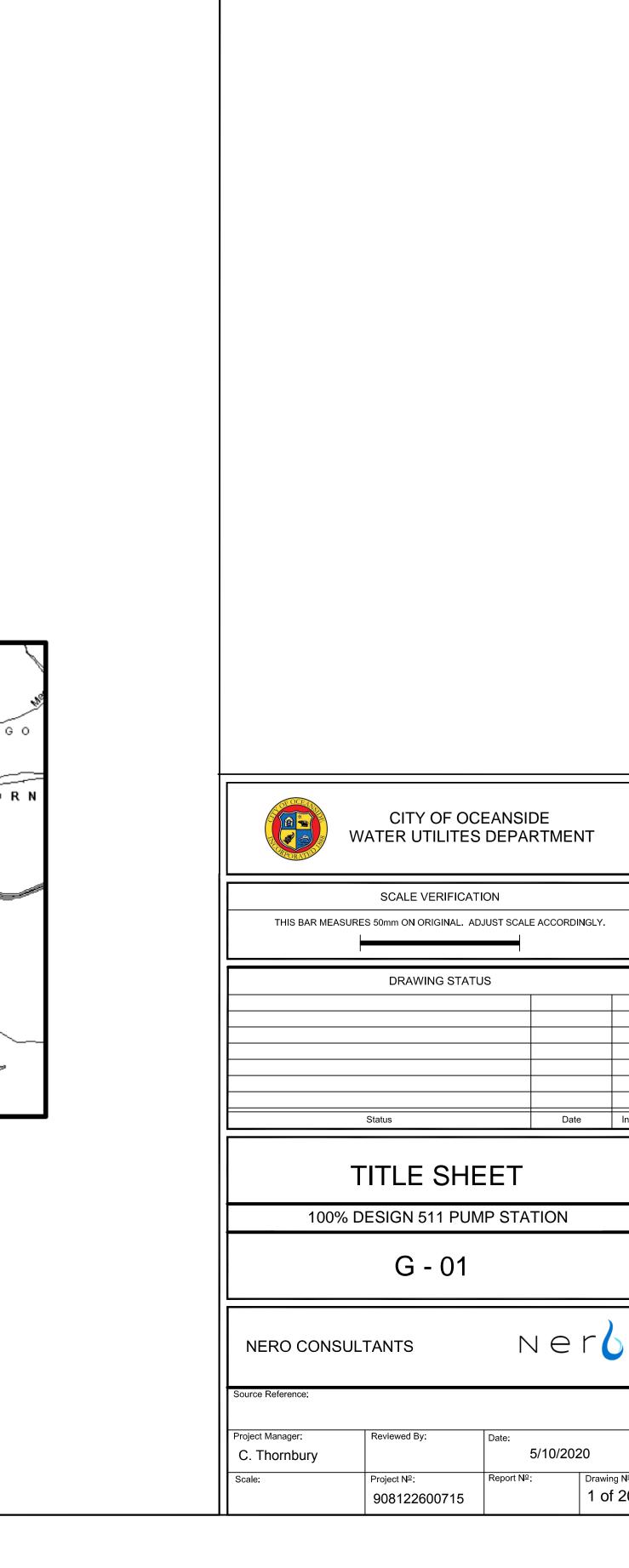
TITLE

TITLE SHEET	G-01
GENERAL AND PROJECT NOTES	G-02
LEGEND, SYMBOLS, & ABBREVIATIONS	G-03
SCHEDULES	G-04
SITE PLAN 1	C-01
SITE PLAN 2	C-02
SITE PLAN 3	C-03
UTILITY PLAN	C-04
PLAN AND PROFILE STA 46+00.00 TO 51+00.00	C-05
PLAN AND PROFILE STA 38+00.00 TO 46+00.00	C-06
PLAN AND PROFILE STA 30+00.00 TO 38+00.00	C-07
PLAN AND PROFILE STA 24+89.91 TO 30+00.00	C-08
GRADING AND PAVING PLAN	C-09
CIVIL DETAILS	CD-01
MECHANICAL PLAN	M-01
MECHANICAL SECTION	M-02
PROCESS FLOW DIAGRAM	M-03
MECHANICAL TYPICAL DETAILS 1	MD-01
MECHANICALTYPICAL DETAILS 2	MD-02
FLOOR PLAN	A-01
ROOF PLAN	A-02
EXTERIOR ELEVATIONS	A-03
ARCHITECTURAL SECTIONS	A-04
DOOR / WINDOW TYPICAL DETAILS	AD-01
ROOF / DRAINAGE TYPICAL DETAILS	AD-02
MISCELLANEOUS TYPICAL DETAILS	AD-03
CONSTRUCTION STAGING	CN-01
SECURITY	SC-02
SECURITY TYPICAL DETAILS	SCD-01

DWG NO



VICINITY MAP



Date

Initial

Drawing Nº:

1 of 20

GENERAL NOTES

1. FOLLOWING NOTES ARE GENERAL AND APPLY TO ALL SHEETS OF THESE CONTRACT DOCUMENTS AS IF THEY WERE WRITTEN IN THE ENTIRETY ON EACH SHEET.

2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE STARTING WORK AND SHALL IMMEDIATELY NOTIFY THE ENGINEER OF WORK OF ANY DISCREPANCIES.

3. THE CONTRACTOR SHALL NOTIFY THE SAN DIEGO GAS AND ELECTRIC COMPANY AND THE PACIFIC TELEPHONE AND TELEGRAPHY COMPANY PRIOR TO STARTING WORK NEAR COMPANY REPRESENTATIVES.

4. NOTIFY UNDERGROUND SERVICE ALERT (USA) AT 1-800-227-2600, AT LEAST TWO (2) WORKING DAYS FOR LOCATION OF ELECTRIC CABLES, GAS PIPING, AND TELEPHONE CABLES AND APPURTENANCES AND REFER TO CITY STANDARDS.

5. ALL PERMITS REQUIRED BY LAW SHALL BE ACQUIRED BY CONTRACTOR BEFORE COMMENCING WORK WHICH INCLUDES A PERMIT FOR WORK WITHIN EXISTING CITY RIGHT-OF-WAYS.

6. THE CONTRACTOR SHALL NOTIFY THE CITY OF OCEANSIDE ENGINEERING INSPECTION DEPARTMENT 48 HOURS PRIOR TO STARTING WORK SO THAT INSPECTION MAY BE PROVIDED (TELEPHONE NUMBER: 760-435-5081)

7. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, WITH SUPPLEMENTS (APWA SPECIFICATIONS); THE SAN DIEGO COUNTY REGIONAL STANDARD DRAWINGS (SDRSD); CITY OF OCEANSIDE "WATER, SEWER, AND RECLAIMED WATER DESIGN AND CONSTRUCTION" MANUAL; AND CITY OF OCEANSIDE ENGINEERS DESIGN AND PROCESSING MANUAL (OCEANSIDE ENGINEERS MANUAL).

8. THE CONTRACTOR SHALL MAINTAIN THE WORK AREA IN A NEAT, SAFE, CLEAN AND SANITARY CONDITION AT ALL TIMES AND TO THE SATISFACTION OF THE AGENCY HAVING JURISDICTION OVER THE AREA. PAVED ROADWAYS SHALL BE KEPT CLEAN OF DEBRIS, WITH DUST AND OTHER NUISANCES BEING CONTROLLED AT ALL TIMES. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ANY CLEAN UP ON ADJACENT AREAS AFFECTED BY THE CONSTRUCTION.

9. PAVEMENT SECTIONS SHOWN ARE TO BE VERIFIED BY "R" VALUE TESTS (TEST METHOD NO. CALIFORNIA 301) AND PAVEMENT DESIGN REPORT, TO BE SUBMITTED BY SOILS ENGINEER AFTER UNDERGROUND UTILITIES CONSTRUCTION IS COMPLETE, FOR CITY ENGINEER'S APPROVAL.

10. ALL METALS PLACED IN THE GROUND SHALL BE ENCASED IN 6 INCHES OF NEUTRAL SAND.

11. CONSTRUCTION EXPANSION JOINTS IN CURB AND GUTTER AT RETURNS AND AT DRIVEWAY INTERSECTIONS ARE REQUIRED PER SDRSD G-9 AND G-10.

12. ALL UNDERGROUND UTILITIES LATERALS SHALL BE INSTALLED BEFORE CONSTRUCTION OF CURBS, CROSS GUTTERS, OR SURFACING OF THE STREETS AND SHALL BE MARKED FOR EASY LOCATION. THE ENGINEER OF WORK SHALL CERTIFY ALL IMPROVEMENTS TO WITHIN 0.1 FEET OF THE DESIGN

13. A MINIMUM VERTICAL SEPARATION OF 12 INCHES SHALL BE MAINTAINED BETWEEN UTILITIES AT ALL TIMES UNLESS OTHERWISE NOTED EXPLICITLY.

14. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN AN EXCAVATION PERMIT FROM THE DIVISION OF INDUSTRIAL SAFETY AND ADHERE TO ALL PROVISIONS OF THE STATE CONSTRUCTION SAFETY ORDERS.

15. SOILS REPORTS ON ALL TRENCHES SHALL BE SUBMITTED TO THE ENGINEER OF WORK AND THE CITY ENGINEER BY THE SOILS ENGINEER OF RECORD, WHICH CERTIFIES THAT TRENCH BACKFILL WAS COMPACTED AS DIRECTED BY THE SOILS ENGINEER IN ACCORDANCE WITH EARTHWORK SPECIFICATIONS AND CITY OF OCEANSIDE SPECIFICATIONS AND GRADING ORDINANCE.

16. BLUE FIRE HYDRANT MARKERS SHALL BE PLACED ON THE PAVEMENT PER CITY OF OCEANSIDE STANDARD DRAWING.

17. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE CURRENT STATE OF CALIFORNIA MANUAL OF TRAFFIC CONTROLS.

18. ALL OPERATIONS CONDUCTED ON THE PREMISES, INCLUDING THE WARMING UP, REPAIR, ARRIVAL, DEPARTURE, OR RUNNING OF TRUCKS, EARTH MOVING, EQUIPMENT, CONSTRUCTION EQUIPMENT, AND ANY OTHER ASSOCIATED EQUIPMENT SHALL BE LIMITED TO THE PERIOD BETWEEN 7:00 A.M. AND 4:00 P.M. MONDAY THROUGH FRIDAY; AND, NO EARTH MOVING OR GRADING OPERATIONS SHALL BE CONDUCTED ON THE PREMISES ON SATURDAYS OR SUNDAYS OR LEGAL HOLIDAYS, UNLESS WAIVED BY THE CITY ENGINEER. IF THE HOURS OF WORK SPECIFIED ON THE CONTRACTOR'S APPROVED TRAFFIC CONTROL PLANS AND/ OR THE CALTRANS ENCROACHMENT PERMIT ARE MORE RESTRICTIVE, THAN THE TRAFFIC CONTROL PLANS AND/ OR THE CALTRANS ENCROACHMENT PERMIT HOURS OF WORK SHALL TAKE PRECEDENCE.

19. STRIPING SHALL BE DONE BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE, UNLESS OTHERWISE DIRECTED.

20. TRAFFIC STRIPES AND PAVEMENT MARKINGS SHALL NOT BE APPLIED OVER EXISTING STRIPES THAT ARE TO BE REMOVED. EXISTING STRIPES SHALL BE FIRST REMOVED BY SANDBLASTING BEFORE ANY NEW APPLICATION.

21. REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED BY CONTRACTOR ON PERMANENT STRIPING. ALL STREET SIGNS SHOWN ON THESE PLANS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SIGN SPECIFICATIONS AND INSTALLATION SHALL BE IN ACCORDANCE WITH CITY OF OCEANSIDE STANDARD DRAWING T-3 AND THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION SPECIFICATION FOR REGULATORY, WARNING AND GUIDE SIGNS.

22. ALL VALVE CANS AND RISERS ON THE CITY'S OPERATIONAL SYSTEM WILL BE RAISED TO GRADE, INCLUDING COMPACTION AROUND THE RISER AND PAVING AROUND VALVE CAN, WITHIN 48 HOURS AFTER PAVEMENT HAS BEEN PLACED. THIS INCLUDES VALVE CANS AND RISERS ON THE EXISTING SYSTEM AND ON ALL NEW SYSTEMS THAT ARE TIED INTO THE CITY'S EXISTING SYSTEM.

23. CONTRACTOR SHALL WORK WITHIN CONSTRUCTION LIMITS.

WATER NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE CITY OF OCEANSIDE WATER, SEWER, AND RECLAIMED WATER DESIGN AND CONSTRUCTION MANUAL; AND CITY OF OCEANSIDE DESIGN AND PROCESSING MANUAL (OCEANSIDE ENGINEERS MANUAL; SAN DIEGO AREA REGIONAL STANDARD DRAWINGS (SDRSD); AND, STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC OR GREEN BOOK) AND SUPPLEMENTAL AMENDMENTS.

2. A "W" SHALL BE INSCRIBED ON CURB DIRECTLY ABOVE ALL WATER SERVICES. SERVICES SHALL BE SHOWN ON AS-BUILT PLANS AND SHALL BE LOCATED BY A WATERLINE STATIONING.

3. PRESSURE TEST, DISINFECT, SAMPLE TEST(S), AND FLUSH THE WATER SYSTEM IN ACCORDANCE WITH THE GUIDELINE TITLED, "CONSTRUCTION GUIDELINES AND REQUIREMENTS", INCLUDED AS SECTION OF THE CITY OF OCEANSIDE "WATER, SEWER, AND RECLAIMED WATER DESIGN AND CONSTRUCTION" MANUAL'S.

4. NO DISRUPTION TO EXISTING WATER DISTRIBUTION MAINS WILL BE ALLOWED ON MONDAYS OR FRIDAYS. ALL SHUTDOWNS FOR SYSTEM TIE-NS WILL BE SCHEDULED BETWEEN TUESDAY, WEDNESDAY AND THURSDAY, AND WILL BE CONFINED TO NORMAL WORKING HOURS. REFER TO THE GUIDELINE TITLED, "ADMINISTRATIVE PROCEDURES FOR WATER LINE SHUTDOWNS" IN THE CONSTRUCTION GUIDELINES AND REQUIREMENTS APPENDIX OF THE CITY OF OCEANSIDE "WATER, SEWER, AND RECLAIMED WATER DESIGN AND CONSTRUCTION" MANUAL.

5. NO CONNECTIONS FOR THE PURPOSE OF OBTAINING WATER SUPPLY DURING CONSTRUCTION SHALL BE MADE TO ANY FIRE HYDRANT OR BLOW-OFF STRUCTURE WITHOUT FIRST OBTAINING A CONSTRUCTION WATER PERMIT FROM THE CITY OF OCEANSIDE WATER UTILITIES DEPARTMENT. A REDUCED PRESSURE PRINCIPLE ASSEMBLY (RP ASSEMBLY) SHALL PROTECT THE METER.

6. ALL WATER USED ON A CONSTRUCTION PROJECT SHALL BE METERED. THE COST OF THE WATER WILL BE CHARGED TO THE CONTRACTOR. THIS INCLUDES WATER FOR LOADING OF NEW WATERLINES, FLUSHING OF LINES PRESSURE TESTING, ETC. CITATIONS WILL BE ISSUED TO PARTIES TAKING WATER FROM NON-METERED FACILITIES.

7. THE CONTRACTOR SHALL NOTIFY THE UNDERGROUND SERVICE ALERT TWO (2) WORKING DAYS PRIOR TO STARTING EXCAVATION SO THAT EXISTING WATER FACILITIES SHALL BE MARKED IN THE FIELD PRIOR TO THE START OF CONSTRUCTION (UNDERGROUND SERVICE ALERT: 811).

8. LOCATION AND ELEVATION OF EXISTING WATER FACILITIES SHALL BE CONFIRMED BY FIELD MEASUREMENTS AND EXCAVATION EXPLORATION (POT HOLING) BY THE CONTRACTOR, AFTER USA MARK-OUT HAS BEEN COMPLETED AND THE WATER UTILITIES DEPARTMENT HAS BEEN GIVEN A TWO (2) WORKING DAY NOTICE.

9. THE EXISTENCE AND LOCATION OF WATER FACILITIES AS SHOWN ON THE PLANS WERE OBTAINED FROM AVAILABLE CITY RECORDS TO THE BEST OF OUR KNOWLEDGE, THE EXISTING WATER FACILITIES ARE AS SHOWN ON THE PLANS THE CITY OF OCEANSIDE SHALL NOT BE HELD RESPONSIBLE FOR ANY ERROR IN THE LOCATION AND ELEVATION OF THE EXISTING WATER FACILITIES.

10. NUTS AND BOLTS ON ALL FLANGE FITTINGS SHALL BE CADMIUM PLATED AND COATED PER THE CITY OF OCEANSIDE "WATER, SEWER, AND RECLAIMED WATER DESIGN AND CONSTRUCTION" MANUAL. EXCEPT FOR BURIED SERVICE, ALL PLATED NUT AND BOLT THREADS SHALL BE COATED WITH NON-OXIDE GREASE PRIOR TO INSTALLATION. APPLY ANT-SEIZE TO ALL STAINLESS STEEL NUT AND BOLT THREADS. BURIED SERVICE VALVES, FITTINGS, AND APPURTENANCES WILL BE COATED AND WRAPPED PER SECTION 4.12 OF THE OCEANSIDE ENGINEERS MANUAL.

11. THE CITY INSPECTOR SHALL BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO ANY INSPECTION. TO ARRANGE FOR INSPECTION, CALL THE WATER UTILITIES DEPARTMENT 760-435-5800.

12. PIPE BEDDING AND TRENCH BACKFILL SHALL CONFORM TO SAN DIEGO REGIONAL STANDARD DRAWING WP-2, EXCEPT THAT COMPACTION SHALL BE 95%. THE PIPE SHALL BE LAID ON 6-INCH MINIMUM SAND BED WITH SAND EQUIVALENT OF SE-30 OR MORE. THE BACKFILL MATERIAL FOR THE PIPE ZONE SHALL BE SAND OR NATIVE MATERIAL WITH A. S. E. OF 30 OR MORE, FREE FROM STONES, CLODS AND OTHER DELETERIOUS MATERIALS.

13. ALL FITTINGS AND SERVICES SHALL BE ENCASED WITH A MINIMUM OF SIX (6) INCHES OF NEUTRAL SAND PER SECTIONS 2.12.C AND G OF THE CITY OF OCEANSIDE "WATER, SEWER, AND RECLAIMED WATER DESIGN AND CONSTRUCTION" MANUAL.

14. PIPE DEFLECTIONS FOR SHORT RADIUS CURVES AND ANGLE POINTS SHALL NORMALLY BE ACCOMPLISHED BY MEANS OF STANDARD FITTINGS.

15. POLYETHYLENE ENCASEMENT: ALL UNDERGROUND INSTALLED VALVES, DUCTILE IRON PIPE, AND FITTINGS SHALL BE ENCASED IN 2 LAYERS OF 8-MIL POLYETHYLENE ENCASEMENT AND INSTALLATION SHALL BE IN ACCORDANCE WITH ANSI AWWA C105/ A21.5

16. PIPE INSTALLATION: THE INSIDE AND OUTSIDE OF THE PIPE SHALL BE CLEAN AND FREE FROM FOREIGN MATERIAL OF ANY KIND BEFORE BEING INSTALLED.

17. 3-INCH MINIMUM WIDTH COLOR CODED DETECTOR TAPE MARKED "WATER" IN 1-1/2 INCH BLACK LETTERS SHALL BE PLACED ON THE COMPACTED AND GRADED SAND BEDDING ONE FOOT ABOVE AND CENTERED OVER THE WATER MAIN PRIOR TO BACK FILLING THE TRENCH.

18. WATER QUALITY TESTS SHALL INCLUDE BACTERIOLOGICAL(BT) AND GENERAL PHYSICAL (GP) TESTING. ALL TESTING WILL COMPLY WITH THE PROVISIONS OF SECTION (F) "WATER SYSTEM TESTING REQUIREMENTS" IN THE CONSTRUCTION GUIDELINES AND REQUIREMENTS APPENDIX OF THE CITY OF OCEANSIDE "WATER, SEWER, AND RECLAIMED WATER DESIGN AND CONSTRUCTION" MANUAL. ALL TESTING WILL BE SUCCESSFULLY COMPLETED BEFORE CONNECTION (TIE-IN) SUBMITTAL AND APPROVAL.

19. ALL WATER DISCHARGE FROM FLUSHING, TESTING, AND DEWATERING SHALL COMPLY WITH ALL REQUIREMENTS OF THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD SAN DIEGO REGION (SDRWQCB) REGULATIONS.

WATER POLLUTION NOTES

1. CONTRACTOR SHALL PROVIDE A STORM WATER POLLUTION CONTROL PLAN A CALIFORNIA REGISTERED CIVIL ENGINEER) FOR WORK DURING CONSTRUCTION CONFORMING TO THE NPDES PERMIT REQUIREMENTS.

2. ALL REQUIREMENTS OF THE COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC MUST BE INCORPORATED INTO THE DESIGN AND CONSTRUCTION OF THE PROP GRADING/IMPROVEMENTS CONSISTENT WITH THE APPROVED WATER POLLUTIC PLAN.

3. THE CONTRACTOR SHALL REMOVE SILT AND DEBRIS AFTER EACH MAJOR RAI

4. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PR TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CRI HAZARDOUS CONDITION.

5. THE CONTRACTOR SHALL ONLY GRADE, INCLUDING CLEARING AND GRUBBIN AREAS FOR WHICH THE CONTRACTOR OR QUALIFIED PERSON CAN PROVIDE EROSION/SEDIMENT CONTROL MEASURES.

ENVIRONMENTAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE TO IMPLEMENT ALL REQUIRED LO AND FEDERAL STANDARDS, LAWS, AND/OR REGULATIONS AND ANY MITIGATION REQUIRED AS PART OF ANY PREVIOUSLY ADOPTED ENVIRONMENTAL DOCUMEN PREPARED BY THE DISTRICT OR ON BEHALF OF THE DISTRICT. THE CONTRACTO COORDINATE CLOSELY WITH DISTRICT STAFF TO OBTAIN ASSISTANCE IN GATHE RELATED PERMIT OR ENVIRONMENTAL MONITORING REQUIREMENTS.

2. CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES. CONTRAC ATTENTION IS DRAWN TO SECTION 01560 OF THE SPECIFICATIONS FOR SPECIFI ENVIRONMENTAL PROTECTION MEASURES. CONTRACTOR SHALL ALSO OBTAIN POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) NOTICE OF INTENT.

3. IDENTIFY STAGING AND/OR LETDOWN AREAS PRIOR TO CONSTRUCTION AND DISTURBED HABITAT OR DEVELOPED SITES. THE CONTRACTOR WILL CHOOSE T STAGING AREAS SHALL BE PROHIBITED WITHIN OR ADJACENT TO SENSITIVE HA ABSOLUTELY NECESSARY. STAGING AREAS SHALL BE DELINEATED ON THE GRA AND REVIEWED BY THE DISTRICT'S ENVIRONMENTAL SPECIALIST. IF STAGING AND PROPOSED TO BE OUTSIDE OF THE STUDY CORRIDOR OR IN A PREVIOUSLY UNI UNDEVELOPED AREAS, ADDITIONAL FIELD ASSESSMENTS MAY BE REQUIRED, A ADDITIONAL IMPACTS COULD OCCUR THAT COULD REQUIRE ADDITIONAL PERMI

UTILITY CONTACTS

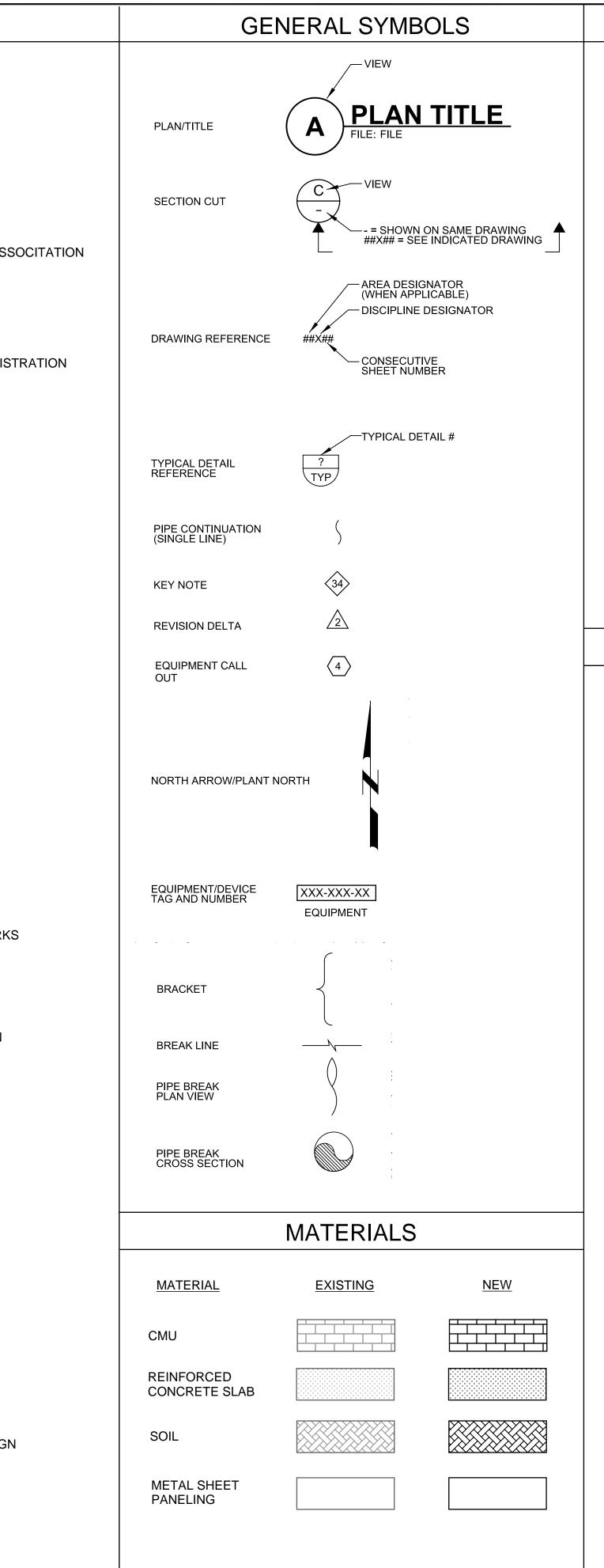
(CONTACTS ARE SUBJECT TO CHANGE BY UTILITY OWNERS, DESIGN-BUILD TEAM MUST VERIFY ALL CONTACTS AND MAINTAIN UPDATED UTILITY CONTACT LIST FOR ALL REGARD OFFICE AND FIELD PERSONNEL)

<u>AGENCY</u> CITY OF OCEANSIDE 300 N. COAST HIGHWAY OCEANSIDE, CA 92054	CONTACT NAME GARY BODMAN	<u>PHONE NUMBER</u> (760) 435-5908
SDG&E - GAS 6875 CONSOLIDATED WAY, SD 1313 SAN DIEGO, CA 92121-2602	GAS TECHNICAL SERVICES	(858) 547-2080
SDG&E -ELEC 8316 CENTURY PARK COURT (CP51C) SAN DIEGO, CA 92123	PROJECT MANAGEMENT	(619) 696-2000
COX 5159 FEDERAL BLVD SAN DIEGO, CA 92105	NEIL PETERS	(619) 263-9251
CITY OF CARLSBAD 1635 FARADAY AVE CARLSBAD, CA 92008	LINDA ONTIVEROS	(760) 702-2773
FALLBROOK PUBLIC (FPUD) P.O BOX 2290 FALLBROOK, CA 92088-2290	TIM STERGER	(760) 728-1125
FALLBROOK PUBLIC (FPUD) (ENGINEERING / PLANNING - MANAGER) P.O BOX 2290 FALLBROOK, CA 92088-2290	JACK BEBEE	(760) 728-1125
NEXTG NETWORKS 890 TASMAN DR MILPITAS, CA 950357439	DELFIN GUERZON	(408) 954-1580
KINDER MORGAN (RIGHT OF WAY - FIELD) 1100 TOWN & COUNTRY RD ORANGE, CA 92868	AL GIESE	(310) 930-3145
KINDER MORGAN (ENGINEERING - DESIGN) 1100 TOWN & COUNTRY RD ORANGE, CA 92868	GEORGE REED	(714) 560-4770
ATT 950 WEST WASHINGTON AVENUE ESCONDIDO, CA 92025	JULIE NYBERG	(760) 489-3632

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	CITY OF OCEANSIDE WATER UTILITES DEPARTMENT
	SCALE VERIFICATION
	THIS BAR MEASURES 50mm ON ORIGINAL. ADJUST SCALE ACCORDINGLY.
	DRAWING STATUS
	Status Date
	GENERAL AND PROJECT NOTES
Call before you Dig	100% DESIGN 511 PUMP STATION
Avoid cutting underground utility lines. It's costly.	G - 02
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1 - 800 - 227 - 2600	C. Thornbury 5/10/2020 Scale: Project №: Report №: Drawing №:
	908122600715 2 of 20

ABBREVIATIONS

Α	ABC	AGGREGATE BASE COURSE	Μ	MAX	MAXIMUM
	AC ACI	ASPHALT CONCRETE AMERICAN CONCRETE INSTITUTE		ME	MATCH EXISTING
	AFF	ABOVE FINISHED FLOOR		MFG MG	MANUFACTURER MILLION GALLONS
	ANG ANSI	ANGLE AMERICAN NATIONAL STANDARDS INSTITUE		MGD	MILLION GALLONS PER DAY
	APPROX	APPROXIMATLEY		MH MID	MANHOLE MIDDLE
	AVAR AVE	AIR VACUUM AND RELEASE VALVE AVENUE		MIN	MINIMUM
	AWS	AMERICAN WELDING SOCIETY	Ν		
D	AWWA	AMERICAN WATER WORKS ASSOCIATION		N NEMA	NORTH NATIONAL ELECTRICAL MANUFACTURERS ASSO
В	B BC	BORING BEGIN CURVE		NO	NUMBER
	BF	BLIND FLANGE		NTS NZ	NOT TO SCALE NORTH ZONE
	BFV BVLD	BUTTERFLY VALVE BOULEVARD	\cap		
	BO	BLOW OFF	U	OD	OUTSIDE DIAMETER
	BOP BOW	BOTTOM OF PIPE BOTTOM OF WALL		OH OSHA	OVERHEAD OCCUPATIONAL SAFETY AND HEALTH ADMINIST
\sim	BVC	BEGIN VERTICAL CURVE	Ρ		
C	CATV	CABLE TELEVISION	•	P PE	POWER PLAIN END
	CAV CC	COMBINATION AIR RELEASE/VACUUM VALVE CENTER TO CENTER		PERF	PERFORATED
	CCTV	CLOSED CIRCUIT TELEVISION		PERIM PG	PERIMETER PRESSURE GAUGE
	CFM CI	CUBIC FEET PER METER CAST IRON		PL	PROPERTY LINE
	C/L	CENTER LINE		PR PSI	PRESSURE RATING POUNDS PER SQUARE INCH
	CL CLR	CLASS CLEARANCE		PT	POINT
	CMC CML	CEMENT MORTAR COATED CEMENT MORTAR LINED		PTZ PVC	POINT TILT ZOOM POLYVINYL CHLORIDE
	CML&C	CEMENT MORTAR LINED AND COATED		PVI PW	POINT OF VERTICAL CURVE POTABLE WATER
	CML&E CMU	CEMENT MORTAR LINED AND EPOXY COATED CONCRETE MASONRY UNIT	П	ΓVV	FOTABLE WATER
	CO	CLEAN OUT	R	RAD	RADIUS
	CP CPLG	CATHODIC PROTECTION COUPLING		RCP RD	REINFORCED CONCRETE PIPE
	CT CTS	COURT CATHODIC TESTING STATION		RED	ROAD REDUCER
	CY	CUBIC YARDS		REINF REQ'D	REINFORCED REQUIRED
D				REV	REVOLUTIONS
	DEFL DG	DEFLECTION DECOMPOSED GRANITE		RG RPM	ROUGH GRADE REVOLUTION PER MINUTE
	DI DIA	DRAIN INLET DIAMETER		ROW	RIGHT OF WAY
	DIP	DUCTILE IRON PIPE	S	_	
	DR DTL	DRAIN, DRIVE DETAIL		S SCH	SLOPE SCHEDULE
	DWG	DRAWING		SD	
Ε	-	FAOT		SDG&E SDRSD	SAN DIEGO GAS & ELECTRIC SAN DIEGO REGIONAL STANDARD DRAWINGS
	E EA	EAST EACH		SF SHT	SQUARE FEET SHEET
	EC EL, ELEV	END CURVE ELEVATION		SP	SPECIFIC PRESSURE
	ELB	ELBOW		SPEC SS	SPECIFICATION STAINLESS STEEL
	ELEC EP	ELECTRIC EXISTING EDGE OF PAVEMENT		SSPWC	STANDARD SPECIFICATIONS FOR PUBLIC WORKS
	EQ	EQUAL		ST	CONSTRUCTION STREET
	ESMT EVC	EASMENT END OF VERTICAL CURVE		STA STD	STATION STANDARD
	EXIST	EXISTING		STL	STEEL
F	FCA	FLANGED COUPLING ADAPTER		ST LT SWPPP	STREET LIGHT STORM WATER POLLUTION PREVENTION PLAN
	FE	FLANGE END	т		
	FF FH	FINISH FLOOR FIRE HYDRANT	I	т	THICKNESS
	FG	FINISH GRADE		TB TBD	THRUST BLOCK TO BE DETERMINED
	FL FLG	FLOW LINE FLANGE		TCE	TEMPORARY CONSTRUCTION EASEMENT
	FM FPUD	FORCEMAIN FALLBROOK PUBLIC UTILITIES DISTRICT		TEL TEMP	TELEPHONE TEMPERATURE
	FRP	FIBERGLASS REINFORCED POLYESTER		TMAC	TIRE MODIFIED ASPHALT CONCRETE
	FS FT, '	FINISH SURFACE FEET		TOC TOP	TOP OF CONCRETE TOP OF PIPE
G		GAS		TOR TOW	TOP OF ROOF TOP OF WALL
	G GA	GAUGE		TYP	TYPICAL
	GB GEN	GRADE BREAK GENERAL, GENERATOR	U		
	GPM	GALLONS PER MINUTE	•	UBC UG	UNIFORM BUILDING CODE UNDERGROUND
ļ				UNK	UNKNOWN
-	ID IE	INSIDE DIAMETER INVERT ELEVATION	V		
	I & M	IRON AND MAGANESE INCHES	v	VFD	VARIABLE FREQUENCY DRIVE
	IN, " IRR	IRRIGATION	\		
L			W		
_	L LB	LENGTH POUNDS		W, WTR WM	WATER WATER METER
	LF LWL	LINEAR FEET LOW WATER LEVEL		WS&RW DC&M	WATER, SEWER, AND RECYCLED WATER DESIGN AND CONSTRUCTION MANUAL
				WV	WATER VALVE
				WS	WELDED STEEL



NEW STRUCTURES	
EXISTING STRUCTURES	
NEW PIPING (TRIPLE LINES)	
NEW PIPING (SINGLE LINE)	
EXISTING PIPING (TRIPLE LINES)	
EXISTING PIPING (SINGLE LINE)	
HIDDEN LINE	
HIDDEN LINE (EXISTING)	
CENTER, MONUMENT, OR SURVEY LINE	
GUARDRAIL	
EXISTING CONTOURS	
NEW CONTOURS	
NEW FENCE	— x –
EXISTING FENCE	— X –
POWER POLE & LINE	— Е –
PROPERTY LINE OR RIGHT OF WAY	
SLOPE	Y
RAILROAD	+++++
CITY LIMITS	
FUTURE ROAD	
EXISTING ROAD	

MECHANICAL / PIPING

DESCRIPTION	SINGLE LINE
FLOW METER: MAGNETIC	
PUMP: VERTICAL LIFT	
GAUGE: PRESSURE	\bigtriangledown
PRIMARY LEVEL ELEMENT: FLUID	
VALVE: AIR RELIEF	
SWING CHECK VALVE	
BUTTERFLY VALVE	\
CONCENTRIC REDUCER	
FLANGED COUPLING ADAPTER	<u>-</u>
FLANGED JOINT	
ELBOW, 90 DEGREE	÷
ELBOW UP	⊙†
ELBOW DOWN	C+
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		Source Reference:		
		Project Manager: C. Thornbury	Reviewed By:	Date: 5/10/2020 Report №: Drawi
		Scale:	Project №: 908122600715	Report №: Drawi

5/10/2020 port Nº: Drawing Nº: 3 of 29

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Initial

PIPE SCHEDULE						
MATERIAL	SIZE (DIAMETER)	CLASS	FITTINGS			
DUCTILE IRON, AWWA, C150, PC150, CEMENT MORTAR LINED AND COATED, RESTRAINED	10-INCH, 12-INCH, 18-INCH	52	DUCTILE IRON, AWWA C110, C151			

VALVE SCHEDULE								
VALVE TYPE	SIZE (INCHES)	MATERIAL	VALVE END	CLASS	LOCATION	ADDITIONAL INFORMATION		
BUTTERFLY	10	DUCTILE IRON	FLANGED	250B	PUMP STATION	DEZURIK BAW		
BUTTERFLY	18	DUCTILE IRON	FLANGED	250B	PUMP STATION	DEZURIK BAW		
BUTTERFLY	18	DUCTILE IRON	FLANGED	250B	DISTRIBUTION	DEZURIK BAW		
COMBINATION AIR RELASE / VACUUM VALVE	2	DUCTILE IRON	FLANGED	250	PUMP STATION	VENT-O-MAT (MODEL 050RBX2521CS4)		
COMBINATION AIR RELASE / VACUUM VALVE	2	DUCTILE IRON	FLANGED	250	DISTRIBUTION	VENT-O-MAT (MODEL 050RBX2521CS4)		
SWING CHECK	10	DUCTILE IRON	FLANGED	250	PUMP STATION	CLA-VAL		

PUMP SCHEDULE					
DESCRIPTION	DRIVER (HP)	FLOW (GPM)	HEAD (FT)	SERVICE TYPE	ADD
511 PUMP STATION, PUMP NO. 1	60 (ELECTRIC)	1,560	485	POTABLE WATER	FAIRBAN
511 PUMP STATION, PUMP NO. 2	60 (ELECTRIC)	1,560	485	POTABLE WATER	FAIRBAN
511 PUMP STATION, PUMP NO. 3	60 (ELECTRIC)	1,560	485	POTABLE WATER	FAIRBAN
	511 PUMP STATION, PUMP NO. 1 511 PUMP STATION, PUMP NO. 2	DESCRIPTIONDRIVER (HP)511 PUMP STATION, PUMP NO. 160 (ELECTRIC)511 PUMP STATION, PUMP NO. 260 (ELECTRIC)	DESCRIPTIONDRIVER (HP)FLOW (GPM)511 PUMP STATION, PUMP NO. 160 (ELECTRIC)1,560511 PUMP STATION, PUMP NO. 260 (ELECTRIC)1,560	DESCRIPTION DRIVER (HP) FLOW (GPM) HEAD (FT) 511 PUMP STATION, PUMP NO. 1 60 (ELECTRIC) 1,560 485 511 PUMP STATION, PUMP NO. 2 60 (ELECTRIC) 1,560 485	DESCRIPTIONDRIVER (HP)FLOW (GPM)HEAD (FT)SERVICE TYPE511 PUMP STATION, PUMP NO. 160 (ELECTRIC)1,560485POTABLE WATER511 PUMP STATION, PUMP NO. 260 (ELECTRIC)1,560485POTABLE WATER

	EQUIPMENT SCHEDULE								
TAG NUMBER	DESCRIPTION	ADDITIONAL INFORMATION							
GEN - 511- 01	511 PUMP STATION, STANDBY GENERATOR NO. 1	750 KW 0.8 PF 938 KVA RATED, KOHLER COMPANY (MODEL 750REOZMB)							
ALT - 511- 01	511 PUMP STATION, ALTERNATOR NO. 1	BAY CITY ELECTRIC WORKS (MODEL 5M4036)							
FST - 511- 01	511 PUMP STATION, FUEL STORAGE TANK NO. 1								
ENG - 511- 01	511 PUMP STATION, NATURAL FUEL ENGINE NO. 1								
VFD - 511- 01	511 PUMP STATION, VFD NO. 1 (PMP - 511 - 01)	PWM DESIGN, 480 VAC RATED, THREE PHASE, EATON / CUTLER - HAMMER							
VFD - 511- 02	511 PUMP STATION, VFD NO. 2 (PMP - 511 - 02)	PWM DESIGN, 480 VAC RATED, THREE PHASE, EATON / CUTLER - HAMMER							
VFD - 511- 03	511 PUMP STATION, VFD NO. 3 (PMP - 511 - 03)	PWM DESIGN, 480 VAC RATED, THREE PHASE, EATON / CUTLER - HAMMER							
FAN - ELC- 01	ELECTRICAL ROOM EXHAUST FAN NO. 1	GREENHECK (MODEL SBE-IL30-5) FACTORY-ASSEMBLED, BELT-DRIVEN, WALL PROPELLER FAN INCLUDING HOUSING PROPELLER DRIVE ASSEMBLY, MOTOR, AND ACCESSORIES. ALUMINUM CONSTRUCTION W/ WELDED JOINTS, NOT LESS THAN 2000,000 HOURS AVERAGE LIFE.							
FAN - ELC- 02	ELECTRICAL ROOM EXHAUST FAN NO. 2	GREENHECK (MODEL SBE-IL30-5) FACTORY-ASSEMBLED, BELT-DRIVEN, WALL PROPELLER FAN INCLUDING HOUSING PROPELLER DRIVE ASSEMBLY, MOTOR, AND ACCESSORIES. ALUMINUM CONSTRUCTION W/ WELDED JOINTS, NOT LESS THAN 2000,000 HOURS AVERAGE LIFE.							
ACU - ELC- 01	ELECTRICAL ROOM AIR CONDITION UNIT NO. 1	MITSUBISHI (MODEL PKA-RP60KAL) DUTCLESS, HIGH WALL AIR CONDITIONING SYSTEM INCLUDING AN INDOOR DX DUCTLESS FAN, FAN MOTOR, PIPING CONNECTORS, ELECTRICAL CONTROLS, WALL MOUNT THERMOSTAT W/ LOCK AND FULLY INSULATED UNIT CABONETS.							

	WINDOW / SKYLIGHT SCHEDULE									
NO	LOCATION	INTERIOR / EXTERIOR	BOTTOM ELEVATION	SIZE	FRAME MATERIAL	DETAIL / TYPE	ADDITIONAL INFORMATION			
W-01	PUMP STATION	INTERIOR	5'-5" AFF	4'-0" x 4'-0"	ALUMINUM	AJ300 / E	FIXED WINDOW, CONTINUOUS SEALANT ON JAMB, SILL AND HEAD			
W-02	ELECTRICAL ROOM	INTERIOR	5'-5" AFF	4'-0" x 4'-0"	ALUMINUM	AJ300 / E	FIXED WINDOW, CONTINUOUS SEALANT ON JAMB, SILL AND HEAD			
W-03	PUMP STATION	INTERIOR	5'-5" AFF	4'-0" x 4'-0"	ALUMINUM	AJ300 / E	FIXED WINDOW, CONTINUOUS SEALANT ON JAMB, SILL AND HEAD			
W-04	PUMP STATION	INTERIOR	5'-5" AFF	4'-0" x 4'-0"	ALUMINUM	AJ300 / E	FIXED WINDOW, CONTINUOUS SEALANT ON JAMB, SILL AND HEAD			
W-05	PUMP STATION	INTERIOR	5'-5" AFF	4'-0" x 4'-0"	ALUMINUM	AJ300 / E	FIXED WINDOW, CONTINUOUS SEALANT ON JAMB, SILL AND HEAD			
SK-01	PUMP STATION	EXTERIOR	12'-0" AFF	5'-0" x 10'-0"	METAL	A624	CPI DAYLIGHTING, SINGLE SLOPE QUADWALL, DUAL PANE REMOVABLE, ESR-1253			
SK-02	PUMP STATION	EXTERIOR	12'-0" AFF	5'-0" x 10'-0"	METAL	A624	CPI DAYLIGHTING, SINGLE SLOPE QUADWALL, DUAL PANE REMOVABLE, ESR-1253			
SK-03	PUMP STATION	EXTERIOR	12'-0" AFF	5'-0" x 10'-0"	METAL	A624	CPI DAYLIGHTING, SINGLE SLOPE QUADWALL, DUAL PANE REMOVABLE, ESR-1253			
SK-04	PUMP STATION	EXTERIOR	12'-0" AFF	5'-0" x 10'-0"	METAL	A624	CPI DAYLIGHTING, SINGLE SLOPE QUADWALL, DUAL PANE REMOVABLE, ESR-1253			
SK-05	PUMP STATION	EXTERIOR	12'-0" AFF	5'-0" x 10'-0"	METAL	A624	CPI DAYLIGHTING, SINGLE SLOPE QUADWALL, DUAL PANE REMOVABLE, ESR-1253			

	DOOR SCHEDULE											
NO	LOCATION	INTERIOR / EXTERIOR	DOOR SIZE (WxH)	DOOR THICKNESS	FRAME SIZE (WxH)	MATERIAL	ELEVATIONS DETAIL / TYPE	FRAME DETAIL / TYPE	HEAD DETAIL / TYPE	JAMB DETAIL / TYPE	SILL DETAIL / TYPE	
D-01	PUMP STATION	EXTERIOR	3'-0" x 7'-10"	1-3/4"	3'-4" x 8'-0"	METAL	AJ103 / G	AJ104 / R	AJ105 / A	AJ107 / D	AJ109 / D	
D-02	ELECTRICAL ROOM	INTERIOR	3'-0" x 7'-10"	1-3/4"	3'-4" x 8'-0"	METAL	AJ103 / G	AJ104 / R	AJ105 / A	AJ107 / D	AJ109 / D	
D-03	ELECTRICAL ROOM	EXTERIOR	3'-0" x 7'-10"	1-3/4"	3'-4" x 8'-0"	METAL	AJ103 / G	AJ104 / R	AJ105 / A	AJ107 / D	AJ109 / D	
D-04	PUMP STATION	EXTERIOR	3'-0" x 7'-10"	1-3/4"	3'-4" x 8'-0"	METAL	AJ103 / G	AJ104 / R	AJ105 / A	AJ107 / D	AJ109 / D	

DDITIONAL INFORMATION

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							GENERAL NOTES
			F-1				1. THE INFORMATION INCLUDED IN THESE SCHEDULES IS FOR THE CONTRACTOR'S CONVENIENCE ONLY. DRAWINGS (PLANS, SECTIONS, SCHEMATICS) AND
			FIIIIN	GS SCHE	DULE		SPECIFICATIONS SHALL TAKE PRECEDENCE FOR
FITTING TYPE		SIZ	E (INCHES)	MATERIAL	MATERIAL LOCATION INTERIOR		DETERMINING THE NUMBER, TYPE AND SIZE OF EQUIPMENT TO BE FURNISHED AND INSTALLED.
REDUCER (CONTRAC	CTOR / EXPA	ANSION)	12 X 18	DUCTILE IRON	I PUMP STATION	DOUBLE CEMENT-MORTER-LINED, C104	
EE - FLOW THRU BR	RANCH		18	DUCTILE IRON		DOUBLE CEMENT-MORTER-LINED, C104	2. ALL BOLTS AND NUTS FOR ABOVE GROUND INSTALLATION SHALL BE CADMIUM-PLATED CARBON
EE - FLOW THRU BE	RANCH	24	4 X 24 X 18	DUCTILE IRON		DOUBLE CEMENT-MORTER-LINED, C104	STEEL ASTM A307, GRADE B OR APPROVED EQUAL. ALL
5 DEGREE BEND			18	DUCTILE IRON		DOUBLE CEMENT-MORTER-LINED, C104 DOUBLE CEMENT-MORTER-LINED, C104	BOTLS, NUTS, SCREWS, AND WASHERS FOR BURIED SERVICES SHALL BE TYPE 316 STAINLESS STEEL.
			18 18	DUCTILE IRON		DOUBLE CEMENT-MORTER-LINED, C104	SERVICES SHALE DE THTE STO STAINLESS STELE.
5 DEGREE BEND, FL OUPLING ADPATER			10				3. FLANGES ON DUCTILE IRON PIPE AND FITTINGS SHALL CONFORM TO AWWA/ANSI C110/A21.10 HAVING
0 DEGREE BEND			18	DUCTILE IRON	I PUMP STATION	DOUBLE CEMENT-MORTER-LINED, C104	FACE AND DRILLING PATTERN IDENTICAL TO
90 DEGREE BEND			18	DUCTILE IRON	DISTRIBUTION	DOUBLE CEMENT-MORTER-LINED, C104	AWWA/ANSI C115/A21.15 OR ANSI B16.1 CLASS 125
							FLANGES OF 250 PSI FOR 12-INCH AND SMALLER, AND 250 PSI FOR 14-INCH TO 48-INCH DIAMETER PIPE.
							4. USE OF FLEXIBLE COUPLINGS ARE NOT ALLOWED.
			LIGH	ING SCH	EDULE		
AMPS WATT VO	LTS LC	OCATION			ADDITIONAL INI	ORMATION	
		IP STATION				TURE W/ ALUMINUM SHIELD, 0-10 DIMMING	
	-	TRICAL ROOM		,		TURE W/ ALUMINUM SHIELD, 0-10 DIMMING	
ļ ·			-	,			
			OTHER	APPURTE	NANCES		
PPURTENANCE	ТҮРЕ	SIZE (INC	HES) L	OCATION	ADDITIC	ONAL INFORMATION	
PRESSURE TRANSMITTERN/ADISTRIBUTION			TRIBUTION		AUGE, ELECTRONIC, LED INDICATOR, ANSMITTER (MODEL 3051)		
PRESSURE GUAGE N		N/A	PU	MP STATION	ASHCROFT		
AGNETIC FLOW ME	ETER,	12	PU	MP STATION		RLING INSTRUMENTS (MODEL FM 656 I HART PROTOCOL KP602 PROGRAMMER)	
FLOW INDICATOR		N/A	PUI	MP STATION	KEP (MODEL PMT -	555)	
DRAIN INLET SPOOL	, FLANGED	24	DIS	TRIBUTION	DUCTILE IRON		
CAV ENCLOSURE		N/A	DIS	TRIBUTION	ARMORCAST (MOD	EL P6002002 - SND)	
VALVE COVER		N/A	DIS	TRIBUTION	SOUTH BAY FOUND	RY (MODEL SBF 1208)	
		SE	CURITY	SYSTEM	SCHEDULE		
AMERA LABEL	TYPE	LOCATIO	N MOUN	IT HEIGHT	(feet)	ORIENTATION	
CAM - 511- 01	PTZ	MAIN GAT	E PEDES	TAL 5	DRIVER FA	CE / MAIN ENTERANCE	
CAM - 511- 02	FIXED	BUILDING			WEST PUM	P STATION	
CAM - 511- 03	THERMAL	S CORNER	r Pole	25	NORTH SIT	E, EAST ELECTRICAL ROOM	
CAM - 511- 04	THERMAL	N CORNEI	R POLE	25	SOUTH SIT	E, PEDESTRIAN GATE ENTERANCE	
							CITY OF OCEANSIDE WATER UTILITES DEPARTMENT SCALE VERIFICATION THIS BAR MEASURES 50mm ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

								GENERAL NOTES
							ſ	1. THE INFORMATION INCLUDED IN THESE SCHEDULES IS FOR THE CONTRACTOR'S CONVENIENCE ONLY.
			F	ITTING	S SCHE	DULE		DRAWINGS (PLANS, SECTIONS, SCHEMATICS) AND SPECIFICATIONS SHALL TAKE PRECEDENCE FOR
FITTING TYPE		SIZE (IN	(INCHES) MATERIAL LOCATION INTERIOR		DETERMINING THE NUMBER, TYPE AND SIZE OF EQUIPMENT TO BE FURNISHED AND INSTALLED.			
REDUCER (CONT	RACTOF	R / EXPAN	SION) 12 X	18 C	UCTILE IRON	PUMP STATION	DOUBLE CEMENT-MORTER-LINED, C104	
TEE - FLOW THRU	J BRANC	H	18		UCTILE IRON	PUMP STATION	DOUBLE CEMENT-MORTER-LINED, C104	2. ALL BOLTS AND NUTS FOR ABOVE GROUND INSTALLATION SHALL BE CADMIUM-PLATED CARBON
FEE - FLOW THRU	J BRANC	H	24 X 24	X 18 C	UCTILE IRON	DISTRIBUTION	DOUBLE CEMENT-MORTER-LINED, C104	STEEL ASTM A307, GRADE B OR APPROVED EQUAL. ALL
15 DEGREE BEND)		18	5 C	UCTILE IRON	DISTRIBUTION	DOUBLE CEMENT-MORTER-LINED, C104	BOTLS, NUTS, SCREWS, AND WASHERS FOR BURIED
30 DEGREE BEND)		18		UCTILE IRON		DOUBLE CEMENT-MORTER-LINED, C104	SERVICES SHALL BE TYPE 316 STAINLESS STEEL.
45 DEGREE BEND, FLANGED COUPLING ADPATER 90 DEGREE BEND		18	6 C	UCTILE IRON	DISTRIBUTION	DOUBLE CEMENT-MORTER-LINED, C104	3. FLANGES ON DUCTILE IRON PIPE AND FITTINGS SHALL CONFORM TO AWWA/ANSI C110/A21.10 HAVING	
		18	; C	UCTILE IRON	PUMP STATION	DOUBLE CEMENT-MORTER-LINED, C104	FACE AND DRILLING PATTERN IDENTICAL TO	
0 DEGREE BEND)		18	; C	UCTILE IRON	DISTRIBUTION	DOUBLE CEMENT-MORTER-LINED, C104	AWWA/ANSI C115/A21.15 OR ANSI B16.1 CLASS 125
			·					FLANGES OF 250 PSI FOR 12-INCH AND SMALLER, AND 250 PSI FOR 14-INCH TO 48-INCH DIAMETER PIPE.
								4. USE OF FLEXIBLE COUPLINGS ARE NOT ALLOWED.
			L	IGHTIN	IG SCHE	DULE		
	VOLTS	LOC				ADDITIONAL INF	FORMATION	
50W	120V	PUMP	STATION WA	RELIGHT.	FT LED PARA	ABOLIC GRILLE FIX	TURE W/ ALUMINUM SHIELD, 0-10 DIMMING	
50W	120V			,			TURE W/ ALUMINUM SHIELD, 0-10 DIMMING	
			ОТ			NANCES		
		-		1	_			
PRESSURE TRAN			SIZE (INCHES)					
RESSURE IRAN			IN/A	DISTR		BONDED STRAIN GAUGE, ELECTRONIC, LED INDICATOR, ROSEMONT DP TRANSMITTER (MODEL 3051)		
PRESSURE GUA	GE		N/A	PUMP	STATION	ASHCROFT		
MAGNETIC FLOW FLANGED	/ METER	,	12	PUMP			RLING INSTRUMENTS (MODEL FM 656 I HART PROTOCOL KP602 PROGRAMMER)	
FLOW INDICATOR	२		N/A	PUMP	STATION F	KEP (MODEL PMT -	555)	
DRAIN INLET SPC	OOL, FLA	NGED	24			DUCTILE IRON		
CAV ENCLOSURE			N/A	DISTR	IBUTION	ARMORCAST (MOD	EL P6002002 - SND)	
VALVE COVER			N/A	DISTR	IBUTION S	SOUTH BAY FOUND	RY (MODEL SBF 1208)	
		·		·				
			SECHE			CHEDULE		
CAMERA LABE		YPE		MOUNT PEDESTAI	HEIGHT		ORIENTATION CE / MAIN ENTERANCE	
CAM - 511- 01				PARPET	- 5 30	WEST PUM		
CAM - 511- 02		XED ERMAL	BUILDING 01 S CORNER	PARPET POLE	25		E, EAST ELECTRICAL ROOM	
CAM - 511- 03			N CORNER	POLE	25		E, PEDESTRIAN GATE ENTERANCE	
CAM - 511- 04			NCORNER	POLE	25		E, PEDESTRIAN GATE ENTERANCE	CITY OF OCEANSIDE
								WATER UTILITES DEPARTMENT
								SCALE VERIFICATION
								THIS BAR MEASURES 50mm ON ORIGINAL. ADJUST SCALE ACCORDINGLY.
								DRAWING STATUS

FITTINGS SCHEDULE ITTING TYPE Size (INCHES) MATERIAL LOCATION INTERIOR FITTING TYPE Size (INCHES) MATERIAL LOCATION INTERIOR FEUDICER (CONTRACTOR / EXPANSION) 12 X 18 DUCTILE IRON PUMP STATION DOUBLE CEMENT-MORTER-LINED, C104 15 DECREE BEND 18 DUCTILE IRON DISTRIBUTION DOUBLE CEMENT-MORTER-LINED, C104 30 DEGREE BEND 18 DUCTILE IRON DISTRIBUTION DOUBLE CEMENT-MORTER-LINED, C104 30 DEGREE BEND 18 DUCTILE IRON DISTRIBUTION DOUBLE CEMENT-MORTER-LINED, C104 30 DEGREE BEND 18 DUCTILE IRON DISTRIBUTION DOUBLE CEMENT-MORTER-LINED, C104 30 DEGREE BEND 18 DUCTILE IRON DISTRIBUTION DOUBLE CEMENT-MORTER-LINED, C104 30 DEGREE BEND 18 DUCTILE IRON DISTRIBUTION DOUBLE CEMENT-MORTER-LINED, C104 30 DEGREE BEND 18 DUCTILE IRON DISTRIBUTION DOUBLE CEMENT-MORTER-LINED, C104 30 DEGREE BEND 18 DUCTILE IRON DISTRIB	 ORMATION INCLUDED IN THESE SCHEDULES CONTRACTOR'S CONVENIENCE ONLY. (PLANS, SECTIONS, SCHEMATICS) AND TIONS SHALL TAKE PRECEDENCE FOR NG THE NUMBER, TYPE AND SIZE OF T TO BE FURNISHED AND INSTALLED. ITS AND NUTS FOR ABOVE GROUND ION SHALL BE CADMIUM-PLATED CARBON M A307, GRADE B OR APPROVED EQUAL ALL TS, SCREWS, AND WASHERS FOR BURIED SHALL BE TYPE 316 STAINLESS STEEL. ON DUCTILE IRON PIPE AND FITTINGS IFORM TO AWWA/ANSI C110/A21.10 HAVING DRILLING PATTERN IDENTICAL TO 1 C115/A21.15 OR ANSI B16.1 CLASS 125 OF 250 POSI FOR 12-INCH AND SMALLER, AND R 14-INCH TO 48-INCH DIAMETER PIPE. EXIBLE COUPLINGS ARE NOT ALLOWED.
ITTINGS SCREDULE SPECIFICATIONS SCREDULE FITTINGS TYPE SIZE (INCHES) MATERIAL LOCATION INTERIOR SIZE (INCHES) MATERIAL LOCATION INTERIOR SIZE (INCHES) MATERIAL LOCATION INTERIOR REDUCER (CONTRACTOR / EXPANSION) 12 X 18 DUCTUE IRON DUSTIBUTION DOUBLE CEMENT-MORTER-LINED, CI04 SECURE AND 18 DUCTUE IRON DISTRIBUTION DOUBLE CEMENT-MORTER-LINED, CI04 SECURE AND 18 DUCTUE IRON DUSTRIBUTION DOUBLE CEMENT-MORTER-LINED, CI04 ODEGREE BEND 18 DUCTUE IRON DUSTRIBUTION DOUBLE CEMENT-MORTER-LINED, CI04 ODEGREE BEND 18 DUCTUE IRON DUSTRIBUTION DOUBLE CEMENT-MORTER-LINED, CI04 SECURE TO A ADDITIONAL INFORMATION SECURE TO A ADDITIONAL INFORMATION SEC	TIONS SHALL TAKE PRECEDENCE FOR NG THE NUMBER, TYPE AND SIZE OF T TO BE FURNISHED AND INSTALLED. IS AND NUTS FOR ABOVE GROUND ION SHALL BE CADMIUM-PLATED CARBON M A307, GRADE B OR APPROVED EQUAL. ALL TS, SCREWS, AND WASHERS FOR BURIED SHALL BE TYPE 316 STAINLESS STEEL. S ON DUCTILE IRON PIPE AND FITTINGS IFORM TO AWWA/ANSI C110/A21.10 HAVING DRILLING PATTERN IDENTICAL TO I C115/A21.15 OR ANSI B16.1 CLASS 125 OF 250 PSI FOR 12-INCH AND SMALLER, AND R 14-INCH TO 48-INCH DIAMETER PIPE.
FITTING TYPE SIZE (INCHES) MATERIAL MATERIAL REDUCER (CONTRACTOR / EXPANSION) SIZE (INCHES) MATERIAL DUCTILE IRON LOCATION INTERIOR REDUCER (CONTRACTOR / EXPANSION) 12 X 18 DUCTILE IRON PUMP STATION DOUBLE CEMENT-MORTER-LINED, C104 15 DIGTE E- FLOW THRU BRANCH 24 X 24 X 18 DUCTILE IRON DISTIBUTION DOUBLE CEMENT-MORTER-LINED, C104 13 DEGREE BEND 18 DUCTILE IRON DISTIBUTION DOUBLE CEMENT-MORTER-LINED, C104 45 DEGREE BEND 18 DUCTILE IRON DISTIBUTION DOUBLE CEMENT-MORTER-LINED, C104 30 DEGREE BEND 18 DUCTILE IRON DISTIBUTION DOUBLE CEMENT-MORTER-LINED, C104 45 DEGREE BEND 18 DUCTILE IRON DISTIBUTION DOUBLE CEMENT-MORTER-LINED, C104 90 DEGREE BEND 18 DUCTILE IRON DISTIBUTION DOUBLE CEMENT-MORTER-LINED, C104 90 DEGREE BEND 18 DUCTILE IRON DISTIBUTION DOUBLE CEMENT-MORTER-LINED, C104 90 DEGREE BEND 18 DUCTILE IRON DISTIBUTION DOUBLE CEMENT-MORTER-LINED, C104 90 DEGREE BEND 18 <	T TO BE FURNISHED AND INSTALLED. TS AND NUTS FOR ABOVE GROUND ION SHALL BE CADMIUM-PLATED CARBON M A307, GRADE B OR APPROVED EQUAL. ALL TS, SCREWS, AND WASHERS FOR BURIED SHALL BE TYPE 316 STAINLESS STEEL. S ON DUCTILE IRON PIPE AND FITTINGS IFORM TO AWWA/ANSI C110/A21.10 HAVING DRILLING PATTERN IDENTICAL TO I C115/A21.15 OR ANSI B16.1 CLASS 125 DF 250 PSI FOR 12-INCH AND SMALLER, AND R 14-INCH TO 48-INCH DIAMETER PIPE.
TEE - FLOW THRU BRANCH 18 DUCTILE IRON PUMP STATION DOUBLE CEMENT-MORTER-LINED, C104 TEE - FLOW THRU BRANCH 24 X 24 X 18 DUCTILE IRON DISTRIBUTION DOUBLE CEMENT-MORTER-LINED, C104 15 DEGREE BEND 18 DUCTILE IRON DISTRIBUTION DOUBLE CEMENT-MORTER-LINED, C104 30 DEGREE BEND 18 DUCTILE IRON DISTRIBUTION DOUBLE CEMENT-MORTER-LINED, C104 45 DEGREE BEND 18 DUCTILE IRON DISTRIBUTION DOUBLE CEMENT-MORTER-LINED, C104 90 DEGREE BEND 18 DUCTILE IRON DISTRIBUTION DOUBLE CEMENT-MORTER-LINED, C104 90 DEGREE BEND 18 DUCTILE IRON DISTRIBUTION DOUBLE CEMENT-MORTER-LINED, C104 90 DEGREE BEND 18 DUCTILE IRON DISTRIBUTION DOUBLE CEMENT-MORTER-LINED, C104 90 DEGREE BEND 18 DUCTILE IRON DISTRIBUTION DOUBLE CEMENT-MORTER-LINED, C104 90 DEGREE BEND 18 DUCTILE IRON DISTRIBUTION DOUBLE CEMENT-MORTER-LINED, C104 90 DEGREE BEND 18 DUCTILE IRON DISTRIBUTION DOUBLE CEMENT-MORTER-LINED, C104 90 DEGREE BEND 18 DUCTILE IRON ADDITIONAL INFORM	ION SHALL BE CADMIUM-PLATED CARBON M A307, GRADE B OR APPROVED EQUAL. ALL TS, SCREWS, AND WASHERS FOR BURIED SHALL BE TYPE 316 STAINLESS STEEL. S ON DUCTILE IRON PIPE AND FITTINGS IFORM TO AWWA/ANSI C110/A21.10 HAVING DRILLING PATTERN IDENTICAL TO I C115/A21.15 OR ANSI B16.1 CLASS 125 DF 250 PSI FOR 12-INCH AND SMALLER, AND R 14-INCH TO 48-INCH DIAMETER PIPE.
ITEL - FLOW THRU BRANCH 18 DUCTLE IRON PUMP STATION DUDBLE CEMENT-MORTER-LINED, C104 IS DEGREE BEND 18 DUCTLE IRON DISTRIBUTION DOUBLE CEMENT-MORTER-LINED, C104 30 DEGREE BEND 18 DUCTLE IRON DISTRIBUTION DOUBLE CEMENT-MORTER-LINED, C104 30 DEGREE BEND 18 DUCTLE IRON DISTRIBUTION DOUBLE CEMENT-MORTER-LINED, C104 30 DEGREE BEND, FLANGED 18 DUCTLE IRON DISTRIBUTION DOUBLE CEMENT-MORTER-LINED, C104 30 DEGREE BEND 18 DUCTLE IRON DISTRIBUTION DOUBLE CEMENT-MORTER-LINED, C104 30 DEGREE BEND 18 DUCTLE IRON DISTRIBUTION DOUBLE CEMENT-MORTER-LINED, C104 30 DEGREE BEND 18 DUCTLE IRON DISTRIBUTION DOUBLE CEMENT-MORTER-LINED, C104 STELLETON STELE CONTON COTHER APPURTENANCES OTHER APPURTENANCES ADDITION ADDITIONAL INFORMATION SIZE (INCHES) ADDITION ADDITIONAL INFORMATION PRESSURE TRANSMITTER N/A DISTRIBUTION BONDED STRAIN GAU	ION SHALL BE CADMIUM-PLATED CARBON M A307, GRADE B OR APPROVED EQUAL. ALL TS, SCREWS, AND WASHERS FOR BURIED SHALL BE TYPE 316 STAINLESS STEEL. S ON DUCTILE IRON PIPE AND FITTINGS IFORM TO AWWA/ANSI C110/A21.10 HAVING DRILLING PATTERN IDENTICAL TO I C115/A21.15 OR ANSI B16.1 CLASS 125 DF 250 PSI FOR 12-INCH AND SMALLER, AND R 14-INCH TO 48-INCH DIAMETER PIPE.
TEE - FLOW THRU BRANCH 24 X 24 X 18 DUCTLE IRON DISTRIBUTION DOUBLE CEMENT-MORTER-LINED, C104 13 DEGREE BEND 18 DUCTLE IRON DISTRIBUTION DOUBLE CEMENT-MORTER-LINED, C104 30 DEGREE BEND 18 DUCTLE IRON DISTRIBUTION DOUBLE CEMENT-MORTER-LINED, C104 45 DEGREE BEND 18 DUCTLE IRON DISTRIBUTION DOUBLE CEMENT-MORTER-LINED, C104 30 DEGREE BEND 18 DUCTLE IRON DISTRIBUTION DOUBLE CEMENT-MORTER-LINED, C104 30 DEGREE BEND 18 DUCTLE IRON DISTRIBUTION DOUBLE CEMENT-MORTER-LINED, C104 30 DEGREE BEND 18 DUCTLE IRON DISTRIBUTION DOUBLE CEMENT-MORTER-LINED, C104 30 DEGREE BEND 18 DUCTLE IRON DISTRIBUTION DOUBLE CEMENT-MORTER-LINED, C104 SOUTIE IRON SOUTIE IRON DISTRIBUTION DOUBLE CEMENT-MORTER-LINED, C104 SOUTIE IRON SOUTIE IRON DISTRIBUTION DOUBLE CEMENT-MORTER-LINED, C104 SOUTIE IRON DISTRIBUTION ADDITIONAL INFORMATION SOUTIES LOCATION ADDITIONAL INFORMATION SOUTIES INCLOCAT	M A307, GRADE B OR APPROVED EQUAL. ALL TS, SCREWS, AND WASHERS FOR BURIED SHALL BE TYPE 316 STAINLESS STEEL. S ON DUCTILE IRON PIPE AND FITTINGS IFORM TO AWWA/ANSI C110/A21.10 HAVING DRILLING PATTERN IDENTICAL TO II C115/A21.15 OR ANSI B16.1 CLASS 125 OF 250 PSI FOR 12-INCH AND SMALLER, AND R 14-INCH TO 48-INCH DIAMETER PIPE.
30 DEGREE BEND 18 DUCTILE IRON DISTRIBUTION DOUBLE CEMENT-MORTER-LINED, C104 45 DEGREE BEND, FLANGED 18 DUCTILE IRON DISTRIBUTION DOUBLE CEMENT-MORTER-LINED, C104 90 DEGREE BEND 18 DUCTILE IRON DISTRIBUTION DOUBLE CEMENT-MORTER-LINED, C104 90 DEGREE BEND 18 DUCTILE IRON DISTRIBUTION DOUBLE CEMENT-MORTER-LINED, C104 90 DEGREE BEND 18 DUCTILE IRON DISTRIBUTION DOUBLE CEMENT-MORTER-LINED, C104 90 DEGREE BEND 18 DUCTILE IRON DISTRIBUTION DOUBLE CEMENT-MORTER-LINED, C104 90 DEGREE BEND 18 DUCTILE IRON DISTRIBUTION DOUBLE CEMENT-MORTER-LINED, C104 90 DEGREE BEND 18 DUCTILE IRON DISTRIBUTION DOUBLE CEMENT-MORTER-LINED, C104 90 DEGREE BEND 18 DUCTILE IRON DISTRIBUTION DOUBLE CEMENT-MORTER-LINED, C104 90 DEGREE BEND 18 DUCTILE IRON DISTRIBUTION DOUBLE CEMENT-MORTER-LINED, C104 90 DEGREE BEND 120V PUMP STATION ADDITIONAL INFORMATION A. USE OF FLEXIBLE COUPL 90 DEGREE SURE TRANSMITTER N/A DISTRIBUTION BONDED STRAIN GAUGE, ELECTRONIC,	SHALL BE TYPE 316 STAINLESS STEEL. S ON DUCTILE IRON PIPE AND FITTINGS IFORM TO AWWA/ANSI C110/A21.10 HAVING DRILLING PATTERN IDENTICAL TO II C115/A21.15 OR ANSI B16.1 CLASS 125 OF 250 PSI FOR 12-INCH AND SMALLER, AND R 14-INCH TO 48-INCH DIAMETER PIPE.
AMOUNTE DELVA 10 DOUNTE INAN DOUNTE DELVA DISTRIBUTION DOUNTE DELVA DOUNTE DELVA DOUNTE DELVA DISTRIBUTION DOUNTE DEVVA DOUNTE DE	S ON DUCTILE IRON PIPE AND FITTINGS IFORM TO AWWA/ANSI C110/A21.10 HAVING DRILLING PATTERN IDENTICAL TO II C115/A21.15 OR ANSI B16.1 CLASS 125 OF 250 PSI FOR 12-INCH AND SMALLER, AND R 14-INCH TO 48-INCH DIAMETER PIPE.
SOUPLING ADPATER 18 DUCTILE IRON PUMP STATION DOUBLE CEMENT-MORTER-LINED, C104 90 DEGREE BEND 18 DUCTILE IRON DISTRIBUTION DOUBLE CEMENT-MORTER-LINED, C104 SOUPLING ADPATER BOLD 18 DUCTILE IRON DUSTRIBUTION DOUBLE CEMENT-MORTER-LINED, C104 SOUPLING SCHEDULE LIGHTING SCHEDULE AMPS WATT VOLTS LOCATION ADDITIONAL INFORMATION SOUP 120V PUMP STATION WARELIGHT, 4 FT LED PARABOLIC GRILLE FIXTURE W/ ALUMINUM SHIELD, 0-10 DIMMING SOUM 120V ELECTRICAL ROOM WARELIGHT, 4 FT LED PARABOLIC GRILLE FIXTURE W/ ALUMINUM SHIELD, 0-10 DIMMING SOUM 120V ELECTRICAL ROOM WARELIGHT, 4 FT LED PARABOLIC GRILLE FIXTURE W/ ALUMINUM SHIELD, 0-10 DIMMING SOUM 120V ELECTRICAL ROOM WARELIGHT, 4 FT LED PARABOLIC GRILLE FIXTURE W/ ALUMINUM SHIELD, 0-10 DIMMING SOUM 120V ELECTRICAL ROOM WARELIGHT, 4 FT LED PARABOLIC GRILLE FIXTURE W/ ALUMINUM SHIELD, 0-10 DIMMING SOUM 120V ELECTRICAL ROOM WARELIGHT, 4 FT LED PARABOLIC GRILLE FIXTURE W/ ALUMINUM SHIELD, 0-10 DIMMING PRESSURE TRANSMITTER N/A DISTRIBUTION	IFORM TO AWWA/ANSI C110/A21.10 HAVING DRILLING PATTERN IDENTICAL TO II C115/A21.15 OR ANSI B16.1 CLASS 125 DF 250 PSI FOR 12-INCH AND SMALLER, AND R 14-INCH TO 48-INCH DIAMETER PIPE.
20 DEGREE BEND 18 DUCTILE IRON PUMP STATION DOUBLE CEMENT-MORTER-LINED, C104 30 DEGREE BEND 18 DUCTILE IRON DISTRIBUTION DOUBLE CEMENT-MORTER-LINED, C104 Source of the provide of the provided of the	DRILLING PATTERN IDENTICAL TO I C115/A21.15 OR ANSI B16.1 CLASS 125 OF 250 PSI FOR 12-INCH AND SMALLER, AND R 14-INCH TO 48-INCH DIAMETER PIPE.
FLANGES OF 250 PSI FOR 12 FLANGES OF 250 PSI FOR 12 LIGHTING SCHEDULE AMPS WATT VOLTS LOCATION ADDITIONAL INFORMATION 50W 120V PUMP STATION WARELIGHT, 4 FT LED PARABOLIC GRILLE FIXTURE W/ ALUMINUM SHIELD, 0-10 DIMMING SOW 120V ELECTRICAL ROOM WARELIGHT, 4 FT LED PARABOLIC GRILLE FIXTURE W/ ALUMINUM SHIELD, 0-10 DIMMING OTHER APPURTENANCES APPURTENANCE TYPE SIZE (INCHES) LOCATION ADDITIONAL INFORMATION PRESSURE TRANSMITTER N/A DISTRIBUTION BONDED STRAIN GAUGE, ELECTRONIC, LED INDICATOR, ROSEMONT DP TRANSMITTER (MODEL 3051) ROSEMONT DP TRANSMITTER (MODEL 3051) PRESSURE GUAGE N/A PUMP STATION ASHCROFT MAGNETIC FLOW METER, 12 PUMP STATION DUCTILE IRON, SPARLING INSTRUMENTS (MODEL FM 656 FIGARMAGE EP WITH HART PROTOCOL KP602 PROGRAMMER)	OF 250 PSI FOR 12-INCH AND SMALLER, AND R 14-INCH TO 48-INCH DIAMETER PIPE.
250 PSI FOR 14-INCH TO 48- 4. USE OF FLEXIBLE COUPL AMPS WATT VOLTS LOCATION ADDITIONAL INFORMATION 50W 120V PUMP STATION WARELIGHT, 4 FT LED PARABOLIC GRILLE FIXTURE W/ ALUMINUM SHIELD, 0-10 DIMMING 50W 120V ELECTRICAL ROOM WARELIGHT, 4 FT LED PARABOLIC GRILLE FIXTURE W/ ALUMINUM SHIELD, 0-10 DIMMING 50W 120V ELECTRICAL ROOM WARELIGHT, 4 FT LED PARABOLIC GRILLE FIXTURE W/ ALUMINUM SHIELD, 0-10 DIMMING 50W 120V ELECTRICAL ROOM WARELIGHT, 4 FT LED PARABOLIC GRILLE FIXTURE W/ ALUMINUM SHIELD, 0-10 DIMMING 50W 120V ELECTRICAL ROOM WARELIGHT, 6 FT LED PARABOLIC GRILLE FIXTURE W/ ALUMINUM SHIELD, 0-10 DIMMING 50W 120V ELECTRICAL ROOM WARELIGHT, 6 FT LED PARABOLIC GRILLE FIXTURE W/ ALUMINUM SHIELD, 0-10 DIMMING 50W 120V ELECTRICAL ROOM WARELIGHT, 6 FT LED PARABOLIC GRILLE FIXTURE W/ ALUMINUM SHIELD, 0-10 DIMMING 50W 120V ELECTRICAL ROOM WARELIGHT, 6 FT LED PARABOLIC GRILLE FIXTURE W/ ALUMINUM SHIELD, 0-10 DIMMING 50W 120V ELECTRICAL ROOM WARELIGHT, 6 FT LED PARABOLIC GRILLE FIXTURE W/ ALUMINUM SHIELD, 0-10 DIMMING 50W 120V ELECTRICAL ROOM WARELIGHT, 6 FT LED PARABOLIC GRILLE FIXTURE W/ ALUMINUM SHIELD, 0-10 DIMMING 50W 120V ELECTRICAL ROOM WARELIGHT, 6 DISTRIBUTION BONDED STRAIN GAUGE, ELECTRONIC, LED INDICATOR, 50W 120V ELECTRICAL ROOM DISTRIBUTION BONDED STRAIN GAUGE, ELECTRONIC, LED INDICATOR, 50W 120V ELECTRICAL ROOM DISTRIBUTION BONDED STRAIN GAUGE, ELECTRONIC, LED INDICATOR, 50W 120V ELECTRICAL ROOM PUMP STATION ASHCROFT 50W 200 FT LANGED 12 PUMP STATION DUCTLE IRON, SPARLING INSTRUMENTS (MODEL FM 656 50W 50W 50W 50W 50W 50W 50W 50W 50W 50W	R 14-INCH TO 48-INCH DIAMETER PIPE.
LIGHTING SCHEDULE AMPS WATT VOLTS LOCATION ADDITIONAL INFORMATION 50W 120V PUMP STATION WARELIGHT, 4 FT LED PARABOLIC GRILLE FIXTURE W/ ALUMINUM SHIELD, 0-10 DIMMING 50W 120V ELECTRICAL ROOM WARELIGHT, 4 FT LED PARABOLIC GRILLE FIXTURE W/ ALUMINUM SHIELD, 0-10 DIMMING 50W 120V ELECTRICAL ROOM WARELIGHT, 4 FT LED PARABOLIC GRILLE FIXTURE W/ ALUMINUM SHIELD, 0-10 DIMMING Source Internation NOTHER APPURTENANCES APPURTENANCE TYPE Size (INCHES) LOCATION ADDITIONAL INFORMATION PRESSURE TRANSMITTER N/A DISTRIBUTION BONDED STRAIN GAUGE, ELECTRONIC, LED INDICATOR, ROSSEMONT DP TRANSMITTER (MODEL 3051) PRESSURE GUAGE N/A PUMP STATION ASHCROFT MAGNETIC FLOW METER, 12 PUMP STATION DUCTILE IRON, SPARLING INSTRUMENTS (MODEL FM 656 TIGERMAGE EP WITH HART PROTOCOL KP602 PROGRAMMER) PROSE PROGRAMMER	FLEXIBLE COUPLINGS ARE NOT ALLOWED.
AMPS WATT VOLTS LOCATION ADDITIONAL INFORMATION 50W 120V PUMP STATION WARELIGHT, 4 FT LED PARABOLIC GRILLE FIXTURE W/ ALUMINUM SHIELD, 0-10 DIMMING 50W 120V ELECTRICAL ROOM WARELIGHT, 4 FT LED PARABOLIC GRILLE FIXTURE W/ ALUMINUM SHIELD, 0-10 DIMMING 50W 120V ELECTRICAL ROOM WARELIGHT, 4 FT LED PARABOLIC GRILLE FIXTURE W/ ALUMINUM SHIELD, 0-10 DIMMING OTHER APPURTENANCES APPURTENANCE TYPE SIZE (INCHES) LOCATION ADDITIONAL INFORMATION PRESSURE TRANSMITTER N/A DISTRIBUTION BONDED STRAIN GAUGE, ELECTRONIC, LED INDICATOR, ROSEMONT DP TRANSMITTER (MODEL 3051) PRESSURE GUAGE N/A PUMP STATION ASHCROFT MAGNETIC FLOW METER, 12 PUMP STATION DUCTILE IRON, SPARLING INSTRUMENTS (MODEL FM 656 TIGERMAG EP WITH HART PROTOCOL KP602 PROGRAMMER)	
50W 120V PUMP STATION WARELIGHT, 4 FT LED PARABOLIC GRILLE FIXTURE W/ ALUMINUM SHIELD, 0-10 DIMMING 50W 120V ELECTRICAL ROOM WARELIGHT, 4 FT LED PARABOLIC GRILLE FIXTURE W/ ALUMINUM SHIELD, 0-10 DIMMING 50W 120V ELECTRICAL ROOM WARELIGHT, 4 FT LED PARABOLIC GRILLE FIXTURE W/ ALUMINUM SHIELD, 0-10 DIMMING OTHER APPURTENANCES APPURTENANCE TYPE SIZE (INCHES) LOCATION ADDITIONAL INFORMATION PRESSURE TRANSMITTER N/A DISTRIBUTION BONDED STRAIN GAUGE, ELECTRONIC, LED INDICATOR, ROSEMONT DP TRANSMITTER (MODEL 3051) PRESSURE GUAGE N/A PUMP STATION ASHCROFT MAGNETIC FLOW METER, FLANGED 12 PUMP STATION DUCTILE IRON, SPARLING INSTRUMENTS (MODEL FM 656 TIGERMAG EP WITH HART PROTOCOL KP602 PROGRAMMER)	
50W 120V ELECTRICAL ROOM WARELIGHT, 4 FT LED PARABOLIC GRILLE FIXTURE W/ ALUMINUM SHIELD, 0-10 DIMMING OTHER APPURTENANCES APPURTENANCE TYPE SIZE (INCHES) LOCATION ADDITIONAL INFORMATION PRESSURE TRANSMITTER N/A DISTRIBUTION BONDED STRAIN GAUGE, ELECTRONIC, LED INDICATOR, ROSEMONT DP TRANSMITTER (MODEL 3051) PRESSURE GUAGE N/A PUMP STATION ASHCROFT MAGNETIC FLOW METER, FLANGED 12 PUMP STATION DUCTILE IRON, SPARLING INSTRUMENTS (MODEL FM 656 TIGERMAG EP WITH HART PROTOCOL KP602 PROGRAMMER)	
50W 120V ELECTRICAL ROOM WARELIGHT, 4 FT LED PARABOLIC GRILLE FIXTURE W/ ALUMINUM SHIELD, 0-10 DIMMING OTHER APPURTENANCES APPURTENANCE TYPE SIZE (INCHES) LOCATION ADDITIONAL INFORMATION PRESSURE TRANSMITTER N/A DISTRIBUTION BONDED STRAIN GAUGE, ELECTRONIC, LED INDICATOR, ROSEMONT DP TRANSMITTER (MODEL 3051) PRESSURE GUAGE N/A PUMP STATION ASHCROFT MAGNETIC FLOW METER, FLANGED 12 PUMP STATION DUCTILE IRON, SPARLING INSTRUMENTS (MODEL FM 656 TIGERMAG EP WITH HART PROTOCOL KP602 PROGRAMMER)	
APPURTENANCE TYPESIZE (INCHES)LOCATIONADDITIONAL INFORMATIONPRESSURE TRANSMITTERN/ADISTRIBUTIONBONDED STRAIN GAUGE, ELECTRONIC, LED INDICATOR, ROSEMONT DP TRANSMITTER (MODEL 3051)PRESSURE GUAGEN/APUMP STATIONASHCROFTMAGNETIC FLOW METER, FLANGED12PUMP STATIONDUCTILE IRON, SPARLING INSTRUMENTS (MODEL FM 656 TIGERMAG EP WITH HART PROTOCOL KP602 PROGRAMMER)	
PRESSURE TRANSMITTERN/ADISTRIBUTIONBONDED STRAIN GAUGE, ELECTRONIC, LED INDICATOR, ROSEMONT DP TRANSMITTER (MODEL 3051)PRESSURE GUAGEN/APUMP STATIONASHCROFTMAGNETIC FLOW METER, FLANGED12PUMP STATIONDUCTILE IRON, SPARLING INSTRUMENTS (MODEL FM 656 TIGERMAG EP WITH HART PROTOCOL KP602 PROGRAMMER)	
PRESSURE TRANSMITTERN/ADISTRIBUTIONBONDED STRAIN GAUGE, ELECTRONIC, LED INDICATOR, ROSEMONT DP TRANSMITTER (MODEL 3051)PRESSURE GUAGEN/APUMP STATIONASHCROFTMAGNETIC FLOW METER, FLANGED12PUMP STATIONDUCTILE IRON, SPARLING INSTRUMENTS (MODEL FM 656 TIGERMAG EP WITH HART PROTOCOL KP602 PROGRAMMER)	
PRESSURE GUAGE N/A PUMP STATION ASHCROFT MAGNETIC FLOW METER, 12 PUMP STATION DUCTILE IRON, SPARLING INSTRUMENTS (MODEL FM 656 FLANGED TIGERMAG EP WITH HART PROTOCOL KP602 PROGRAMMER)	
FLANGED TIGERMAG EP WITH HART PROTOCOL KP602 PROGRAMMER)	
FLOW INDICATOR N/A PUMP STATION KEP (MODEL PMT - 555)	
DRAIN INLET SPOOL, FLANGED 24 DISTRIBUTION DUCTILE IRON	
CAV ENCLOSURE N/A DISTRIBUTION ARMORCAST (MODEL P6002002 - SND)	
VALVE COVER N/A DISTRIBUTION SOUTH BAY FOUNDRY (MODEL SBF 1208)	
CAMERA LABEL TYPE LOCATION MOUNT HEIGHT (feet) ORIENTATION	
CAM - 511- 01 PTZ MAIN GATE PEDESTAL 5 DRIVER FACE / MAIN ENTERANCE CAM - 511- 02 FIXED BUILDING 01 PARPET 30 WEST PUMP STATION	
CAM - 511- 02FIXEDBUILDING 01PARPET30WEST PUMP STATIONCAM - 511- 03THERMALS CORNERPOLE25NORTH SITE, EAST ELECTRICAL ROOM	
CAM - 511- 03 THERMAL SCORNER POLE 25 NORTH SITE, EAST ELECTRICAL ROOM CAM - 511- 04 THERMAL N CORNER POLE 25 SOUTH SITE, PEDESTRIAN GATE ENTERANCE	

							GENERAL NOTES	
								1. THE INFORMATION INCLUDED IN THESE SCHEDULES IS FOR THE CONTRACTOR'S CONVENIENCE ONLY.
			FI	TTING	S SCHE	DULE		DRAWINGS (PLANS, SECTIONS, SCHEMATICS) AND SPECIFICATIONS SHALL TAKE PRECEDENCE FOR
FITTING TYPE			SIZE (IN	CHES)	MATERIAL	LOCATION	INTERIOR	DETERMINING THE NUMBER, TYPE AND SIZE OF EQUIPMENT TO BE FURNISHED AND INSTALLED.
REDUCER (CONT	RACTOR /	EXPANSI	ON) 12 X	18 [UCTILE IRON		N DOUBLE CEMENT-MORTER-LINED, C104	
TEE - FLOW THRU			18	C	UCTILE IRON			2. ALL BOLTS AND NUTS FOR ABOVE GROUND INSTALLATION SHALL BE CADMIUM-PLATED CARBON
TEE - FLOW THRU	J BRANCH		24 X 24	X 18 [UCTILE IRON		DOUBLE CEMENT-MORTER-LINED, C104	STEEL ASTM A307, GRADE B OR APPROVED EQUAL. ALL
15 DEGREE BEND)		18	Γ	UCTILE IRON	DISTRIBUTION	DOUBLE CEMENT-MORTER-LINED, C104	BOTLS, NUTS, SCREWS, AND WASHERS FOR BURIED
30 DEGREE BEND)		18	0	UCTILE IRON	I DISTRIBUTION	DOUBLE CEMENT-MORTER-LINED, C104	SERVICES SHALL BE TYPE 316 STAINLESS STEEL.
45 DEGREE BEND, FLANGED COUPLING ADPATER		18	[UCTILE IRON	DISTRIBUTION	DOUBLE CEMENT-MORTER-LINED, C104	3. FLANGES ON DUCTILE IRON PIPE AND FITTINGS SHALL CONFORM TO AWWA/ANSI C110/A21.10 HAVING	
90 DEGREE BEND)		18	Γ	UCTILE IRON	I PUMP STATIO	N DOUBLE CEMENT-MORTER-LINED, C104	FACE AND DRILLING PATTERN IDENTICAL TO
90 DEGREE BEND)		18	[UCTILE IRON	DISTRIBUTION	DOUBLE CEMENT-MORTER-LINED, C104	AWWA/ANSI C115/A21.15 OR ANSI B16.1 CLASS 125 FLANGES OF 250 PSI FOR 12-INCH AND SMALLER, AND
				IGHTII	IG SCHI			250 PSI FOR 14-INCH TO 48-INCH DIAMETER PIPE. 4. USE OF FLEXIBLE COUPLINGS ARE NOT ALLOWED.
LAMPS WATT	VOLTS	LOCA				ADDITIONAL II	NFORMATION	
50W	120V	PUMP S	TATION WA	RELIGHT,	FT LED PAR	ABOLIC GRILLE FI	XTURE W/ ALUMINUM SHIELD, 0-10 DIMMING	
50W	120V	ELECTRIC	AL ROOM WA	RELIGHT,	1 FT LED PAR	ABOLIC GRILLE FI	XTURE W/ ALUMINUM SHIELD, 0-10 DIMMING	
			ΟΤ	HER A	PPURTE	NANCES		
APPURTENAN	CE TYPE	s	SIZE (INCHES)	LOC	ATION	ADDIT		
PRESSURE TRAN	ISMITTER		N/A				GAUGE, ELECTRONIC, LED INDICATOR,	
PRESSURE GUA	3F		N/A	PUMP		ASHCROFT	RANSMITTER (MODEL 3051)	
MAGNETIC FLOW			12				PARLING INSTRUMENTS (MODEL FM 656	
FLANGED	WIE I EIX,		12	FOME			TH HART PROTOCOL KP602 PROGRAMMER)	
FLOW INDICATOR	२		N/A	PUMP	STATION	KEP (MODEL PMT	- 555)	
DRAIN INLET SPO		GED	24	_		DUCTILE IRON		
CAV ENCLOSURE	,		N/A				DEL P6002002 - SND)	
VALVE COVER			N/A	DISTR	IBUTION	SOUTH BAY FOUN	IDRY (MODEL SBF 1208)	
			SECUE					
CAMERA LABE				MOUNT			ORIENTATION	
CAM - 511- 01						. ,		
	PT			PEDESTA	_			
CAM - 511- 02 CAM - 511- 03	FIX		SUILDING 01	PARPET POLE	<u> </u>		MP STATION	
CAM - 511- 03			N CORNER	POLE	25		ITE, EAST ELECTRICAL ROOM TE, PEDESTRIAN GATE ENTERANCE	
					23			CITY OF OCEANSIDE WATER UTILITES DEPARTMENT
								SCALE VERIFICATION
								THIS BAR MEASURES 50mm ON ORIGINAL. ADJUST SCALE ACCORDINGLY.
								DRAWING STATUS

GENERAL NOTES

Status	Date	Initial

SCHEDULES

100% DESIGN 511 PUMP STATION

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Nero NERO CONSULTANTS Source Reference:

Project Manager: C. Thornbury	Reviewed By:	Date: 5/10/20	20
Scale:	Project №:	Report №:	Drawing №:
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CITY OF OCEAN WATER UTILITES DEI							
SCALE VERIFICATION							
THIS BAR MEASURES 50mm ON ORIGINAL. ADJUST S							
DRAWING STATUS							
Status	Date	Initial					
SITE PLAN - 1 100% DESIGN 511 PUMP STATION							
C - 01							
NERO CONSULTANTS	Ner	Ն					
Source Reference:							
Project Manager: Reviewed By: Date:	5/10/2020						

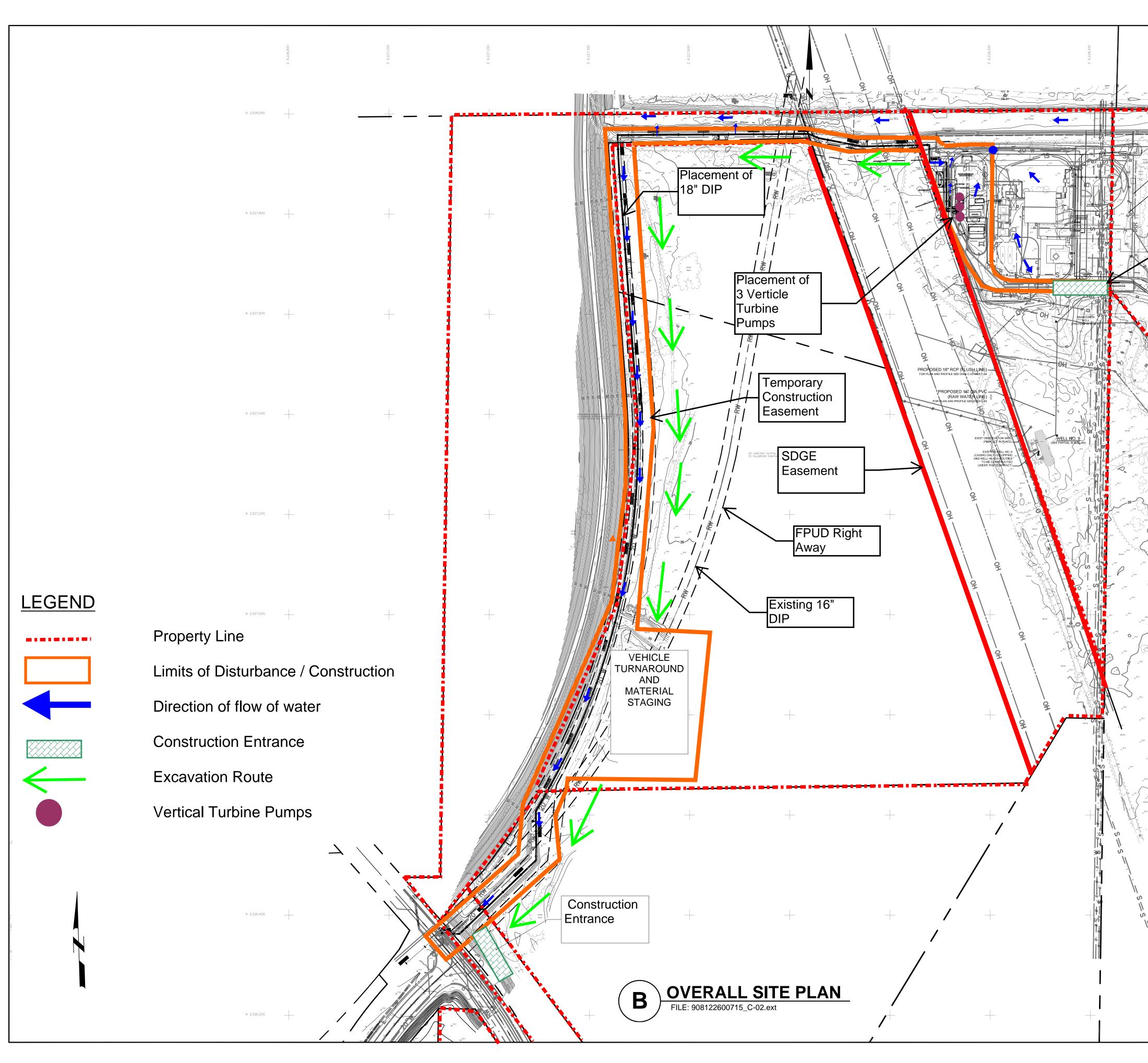
Drawing №: 5 of 20

Report Nº:

Project Nº:

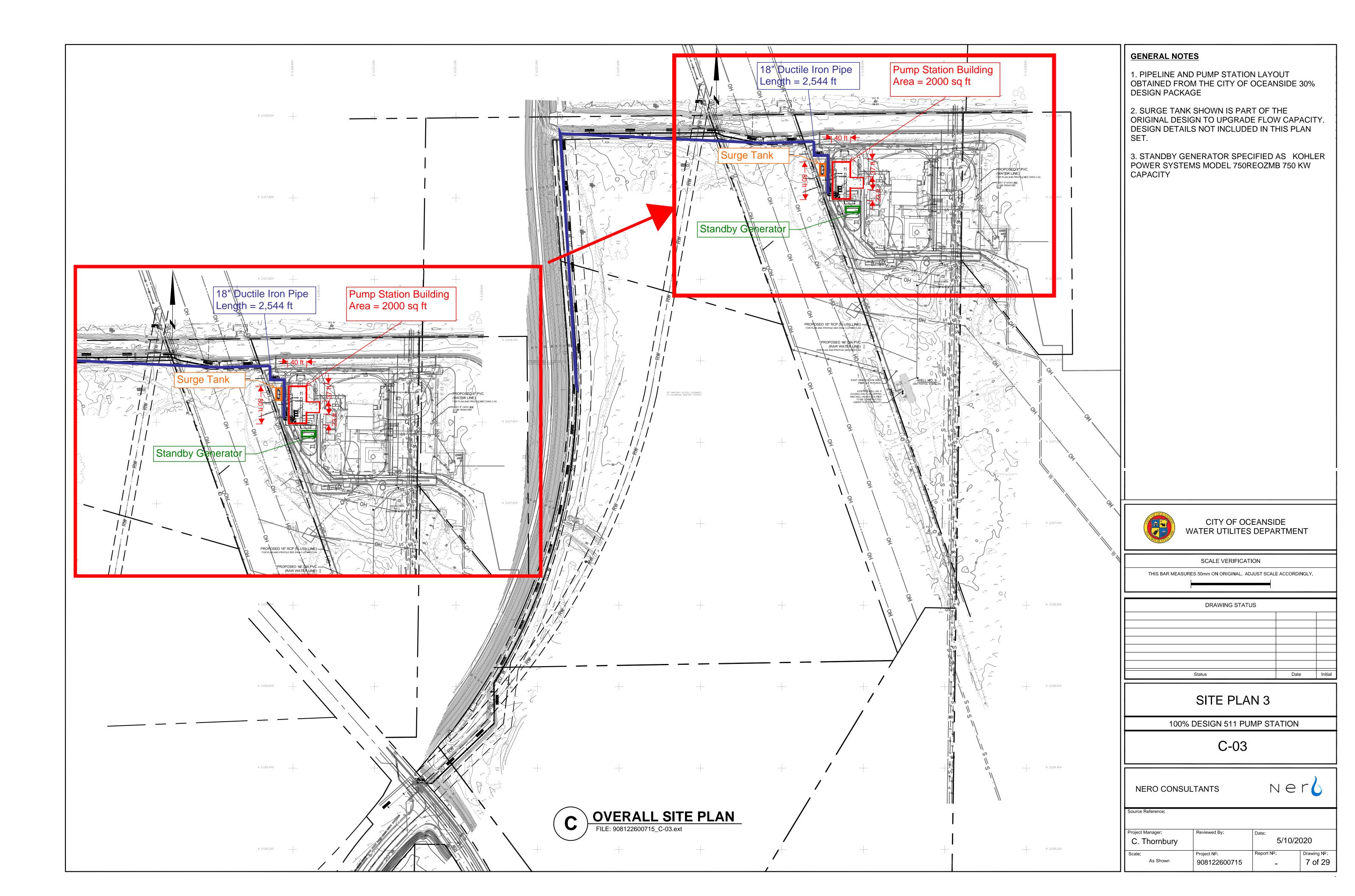
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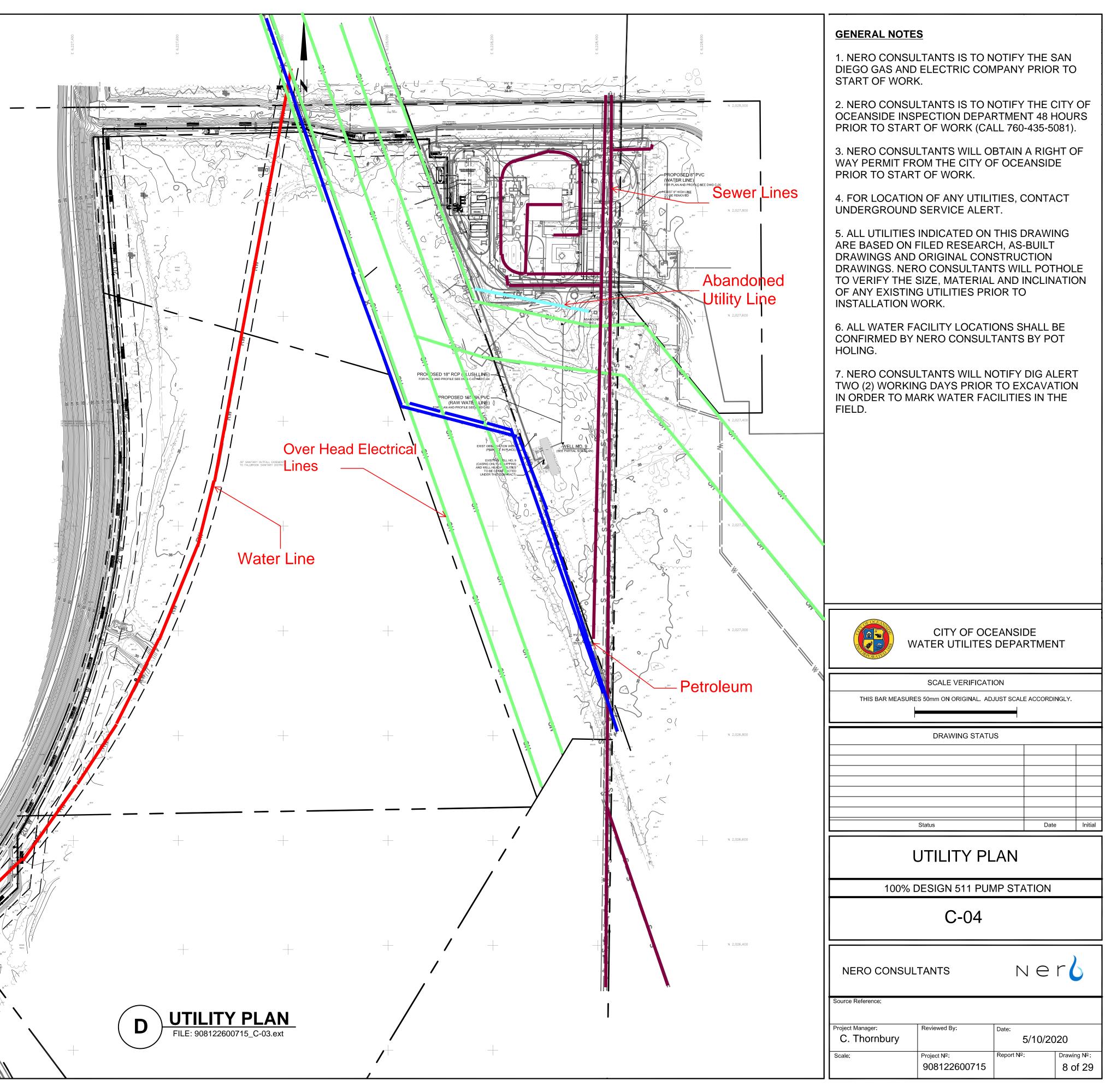


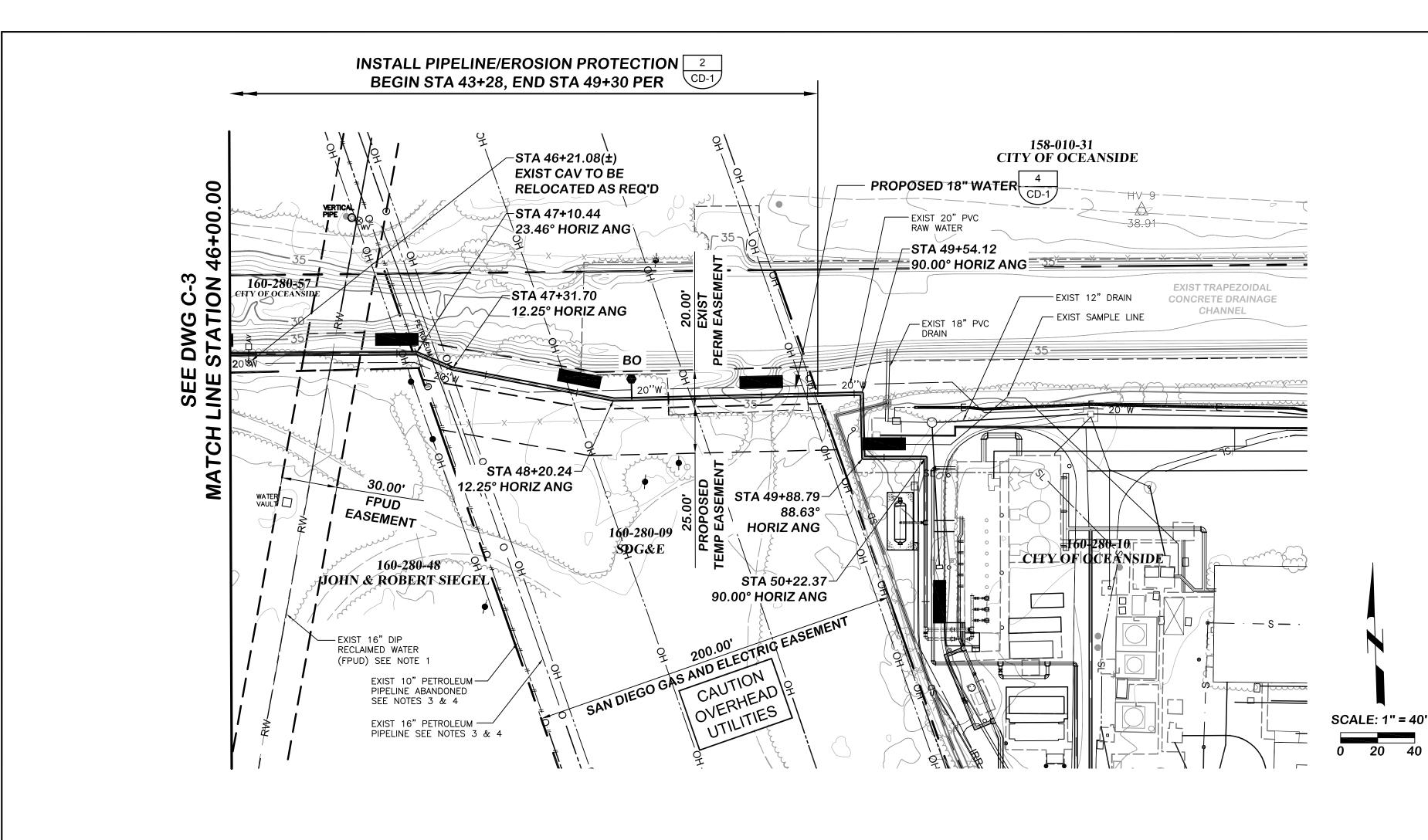
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AND CONC GRAN X ^{A,J} CONC GRAN X ^{A,J} X ^A	C-05	
	Construction Entrance	
	N 2.027,600	
	N 2,027,400	
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× ^{MJ} × ^{MJ} × ^{MJ} × ^{MJ} × ^{MJ}	N 2.027.200	
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x^{M} x^{M} x^{M} $+$	N 2,027,000	CITY OF OCEANSIDE WATER UTILITES DEPARTMENT
x ^{35,4} x ^{35,4} x ^{35,7} anus	E.	SCALE VERIFICATION THIS BAR MEASURES 50mm ON ORIGINAL. ADJUST SCALE ACCORDINGLY.
ر * _{۳۲}	N 2,026,800	DRAWING STATUS
m7 (
	N 2,026,600	SITE PLAN - 2
		100% DESIGN 511 PUMP STATION
	N 2,026,400	C - 02
		Source Reference: Project Manager: Reviewed By: Date:
+	N 2,026,200	C. Thornbury 5/10/2020 Scale: Project №: 908122600715 Report №: 6 of 29

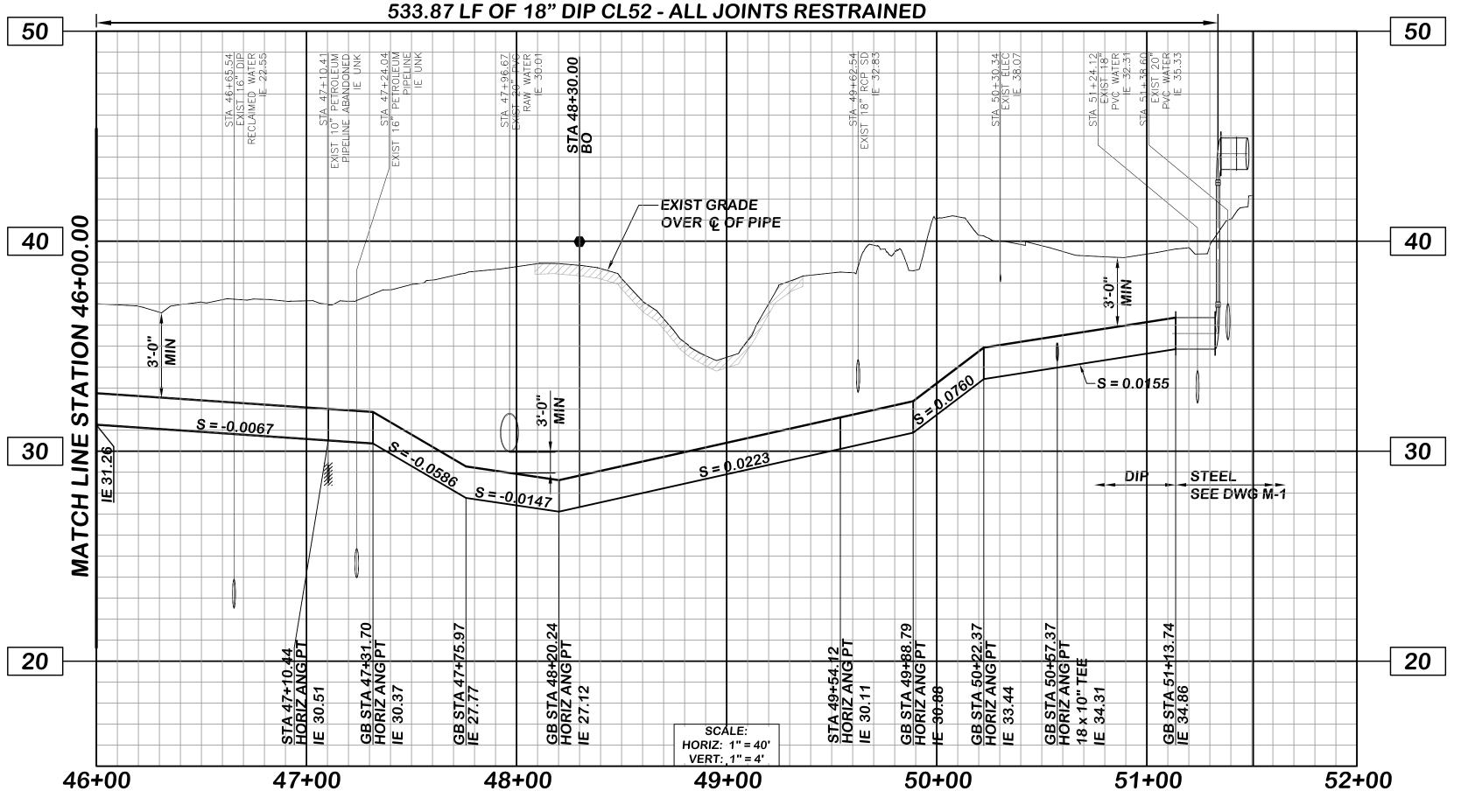
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	N 2,028,000	+		
	N 2,027,800	+	+	
	N 2,027,600	+	-	
	N 2,027,400	+		
	N 2,027,200	+	+	
	N 2,027,000	+		
	N 2,028,000	+		
	N 2,026,600			
	N 2,026,400			
	N 2,026,200	+		
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NOTES CONTINUED:

- 4. EXIST 16" PETROLEUM PIPELINE INCLUDES AN ACTIVE IMPRESSED CURRENT CATHODIC PROTECTION SYSTEM. CONTRACTOR TO **KINDER MORGAN TO COORDINATE KINDER** MORGAN REVIEW AND ACCEPTANCE OF **CONSTRUCTION SCHEDULE, PRIOR TO** COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
- 5. CONTRACTOR SHALL CONTACT SDG&E TO AND CONSTRUCTION SCHEDULE, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
- 6. CONTRACTOR SHALL CONTACT FPUD TO AND CONSTRUCTION SCHEDULE, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
- 7. PROTECT IN PLACE ALL EXIST TREES, **VEGETATION IN MISSION BASIN DESALTING** FACILITY.
- 8. ALL PIPE JOINTS SHALL BE RESTRAINED
- 9. CITY SHALL BE RESPONSIBLE FOR OBTAINING **BEEN OBTAINED**

PROVIDE DESIGN OF PROPOSED 18" DIP BY A CORROSION ENGINEER LICENSED IN THE STATE OF CALIFORNIA. CONTRACTOR SHALL CONTACT PROPOSED PIPELINE DESIGN DOCUMENTS AND

COORDINATE SDG&E REVIEW AND ACCEPTANCE **OF PROPOSED PIPELINE DESIGN DOCUMENTS**

COORDINATE FPUD REVIEW AND ACCEPTANCE OF PROPOSED PIPELINE DESIGN DOCUMENTS

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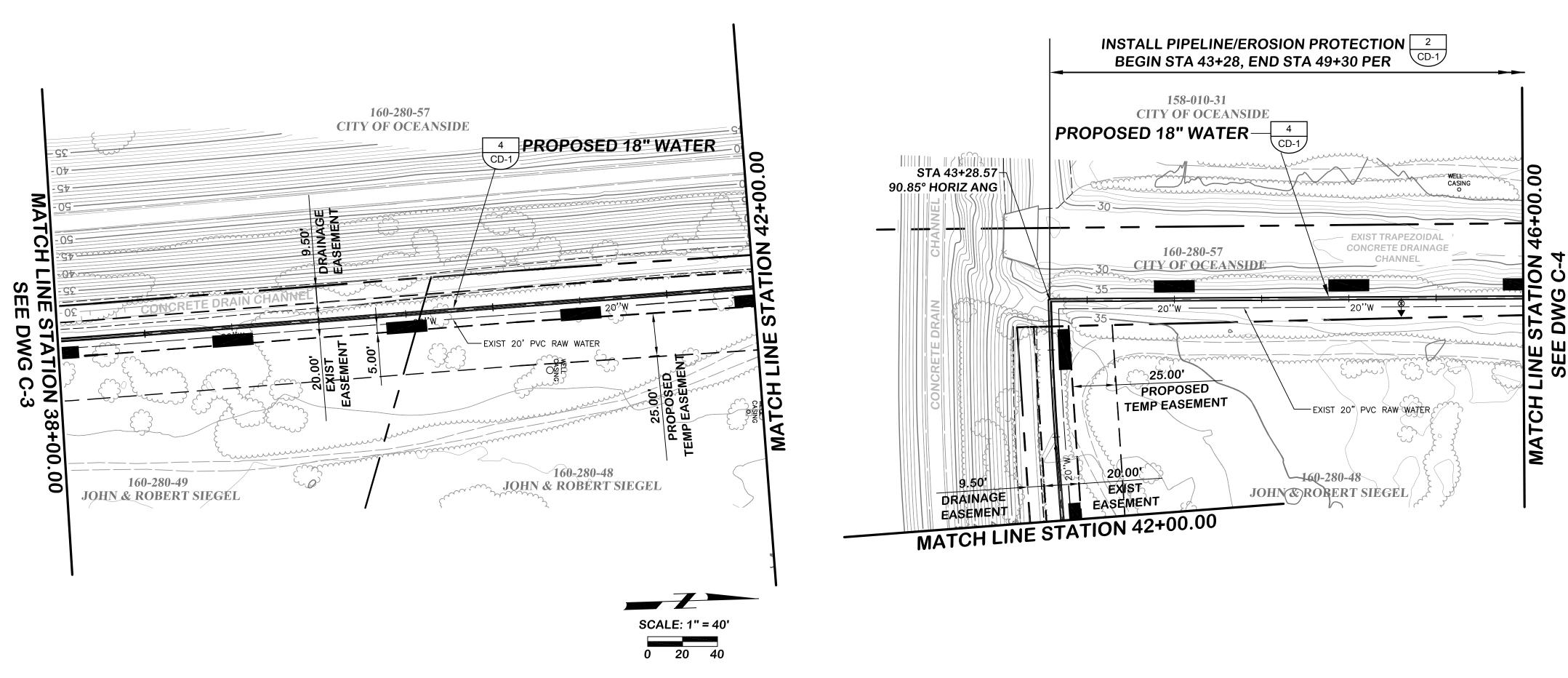
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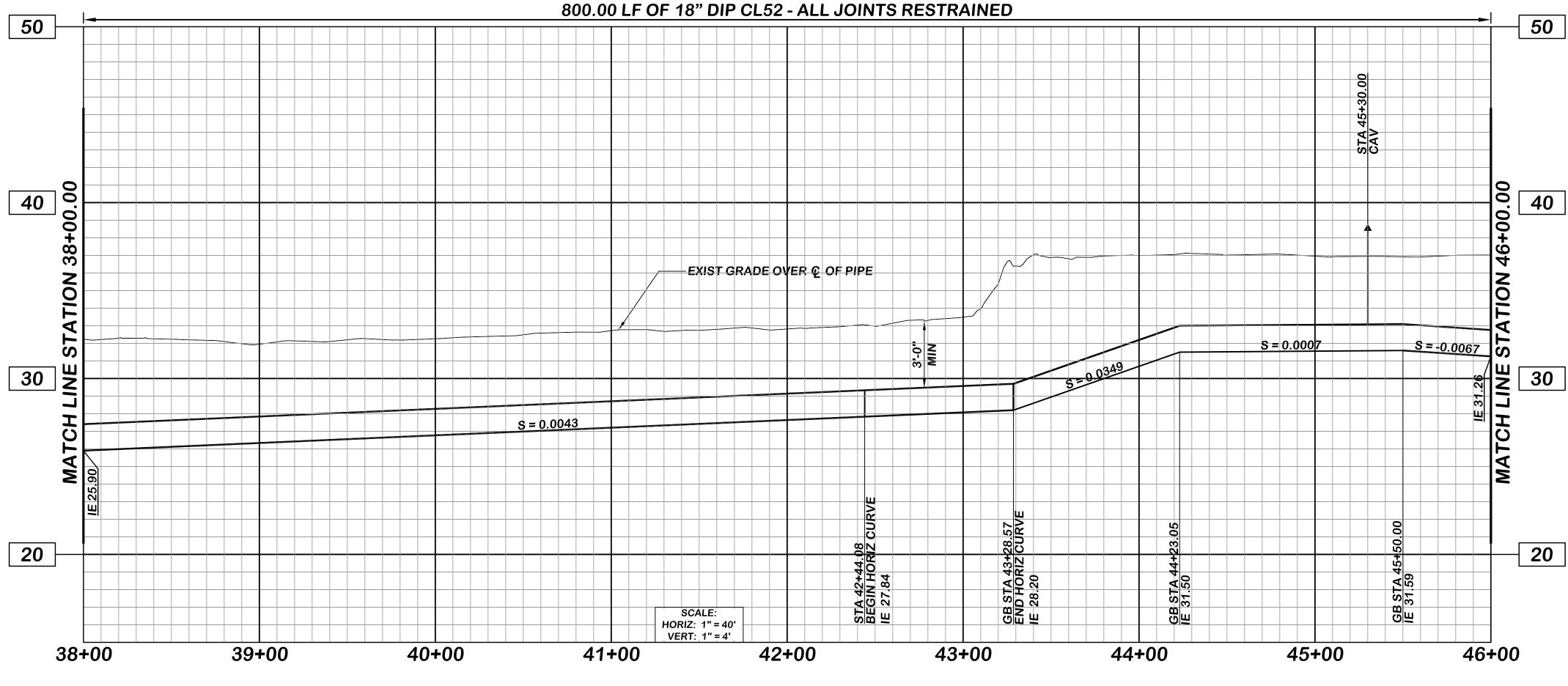
- PIPELINE AND PUMP STATION LAYOUT OBTAINED BY THE CITY OF OCEANSIDE 30 PERCENT DESIGN PACKAGE.
- 2. THE SIZE, VERTICAL AND HORIZONTAL LOCATION, AND EXTENT OF ALL EXISTING AND PROPOSED FACILITIES, TOPOGRAPHY, PROPERTY LINES, AND **GRADES SHOWN ON THESE PLANS ARE** APPROXIMATE AND ARE INTENDED TO CONVEY THE GENERAL INTENT OF THE PROJECT. THERE MAY BE **EXISTING FACILITIES NOT SHOWN ON THESE PLANS,** ABOVE AND/OR BELOW GRADE, WHICH MAY EXIST. **DESIGN / BUILDER IS RESPONSIBLE FOR RECORDS RESEARCH AND FIELD VERIFICATION OF ALL EXISTING CONDITIONS AND IMPROVEMENTS DURING DESIGN AND PRIOR TO ORDERING MATERIALS. FIELD VERIFICATION IS AT THE DESIGN / BUILDER EXPENSE,** AND MUST BE BY WHATEVER MEANS NECESSARY, INCLUDING BUT NOT LIMITED TO RECORDS RESEARCH, INSPECTION, FIELD SURVEY, AND POTHOLING. DESIGN / BUILDER IS RESPONSIBLE FOR **PROVIDING ACCURATE MAPPING OF EXISTING** FACILITIES AND PROPOSED IMPROVEMENTS DURING DESIGN AND FOR POST-CONSTRUCTION RECORD DRAWINGS, WHICH SHALL INCLUDE COORDINATE TABLES FOR ALL NEW FACILITIES. COORDINATE TABLES SHALL BE BASED ON THE BASIS-OF-SURVEY (TO BE FIELD VERIFIED BY THE DESIGN / BUILDER) AS DESCRIBED ON THESE PLANS.
- EXACT PIPELINE LOCATION CAN ONLY BE DETERMINED BY POTHOLE. THE POTHOLE WORK MUST BE PERFORMED BY HAND EXCAVATION AND IN THE PRESENCE OF A PIPELINE REPRESENTATIVE BY CONTACTING KINDER MORGAN RIGHT OF WAY SPECIALIST, MR. AL GIESE (310) 930-3145, AT LEAST TWO WEEKS PRIOR TO COMMENCEMENT OF WORK. MR. GIESE WILL ARRANGE FOR A PIPELINE **REPRESENTATIVE TO BE PRESENT DURING WORK** NEAR THE PIPELINES.
- 4. SEE SPECIFICATIONS FOR KINDER MORGAN **REQUIREMENTS, INCLUDING DOCUMENTS:**
- A. L-OM200-29 "GUIDELINES FOR DESIGN AND CONSTRUCTION" RELATING TO PROPOSED **PROJECTS AFFECTING KINDER MORGAN** PIPELINES AND
- B. INFORMATION BULLETIN #03100, ISSUED FROM THE OFFICE OF THE CALIFORNIA STATE FIRE MARSHAL CONCERNING ENCROACHMENTS WITHIN AND ADJACENT TO PIPELINE EASEMENTS THAT MUST BE FOLLOWED.

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CITY OF OCEANSIDE WATER UTILITES DEPARTMENT

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- PIPELINE AND PUMP STATION LAYOUT OBTAINED BY THE CITY OF OCEANSIDE 30 PERCENT DESIGN PACKAGE.
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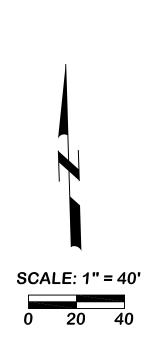
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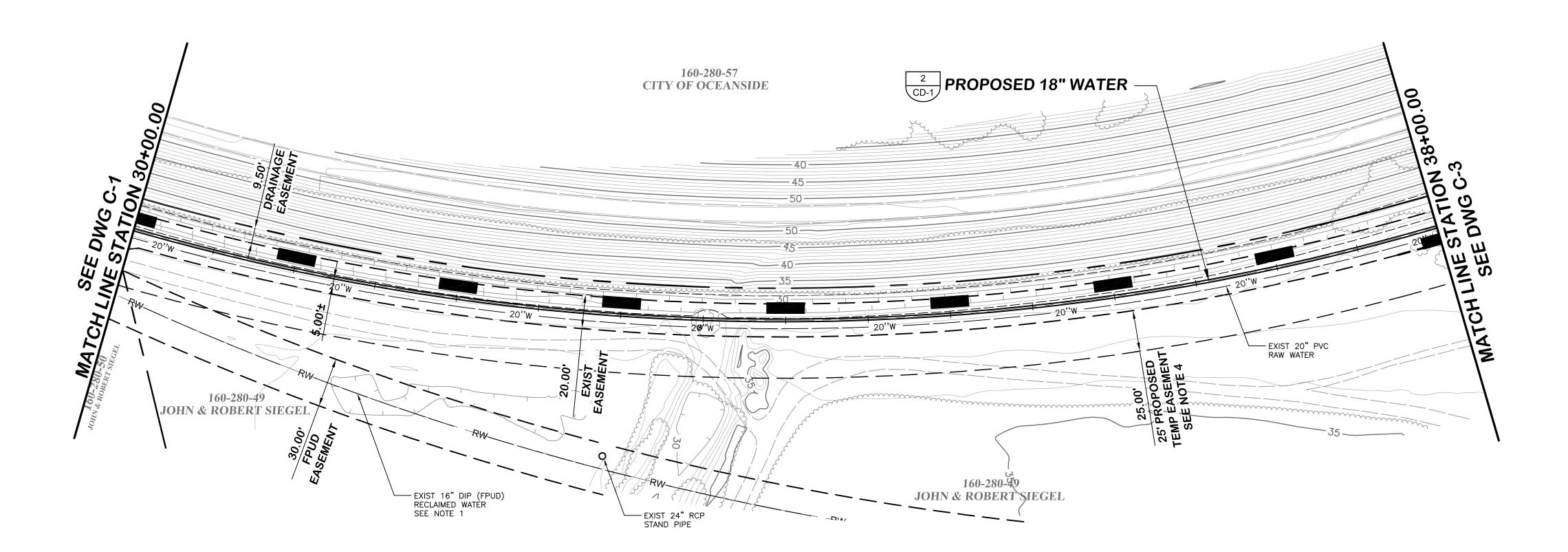
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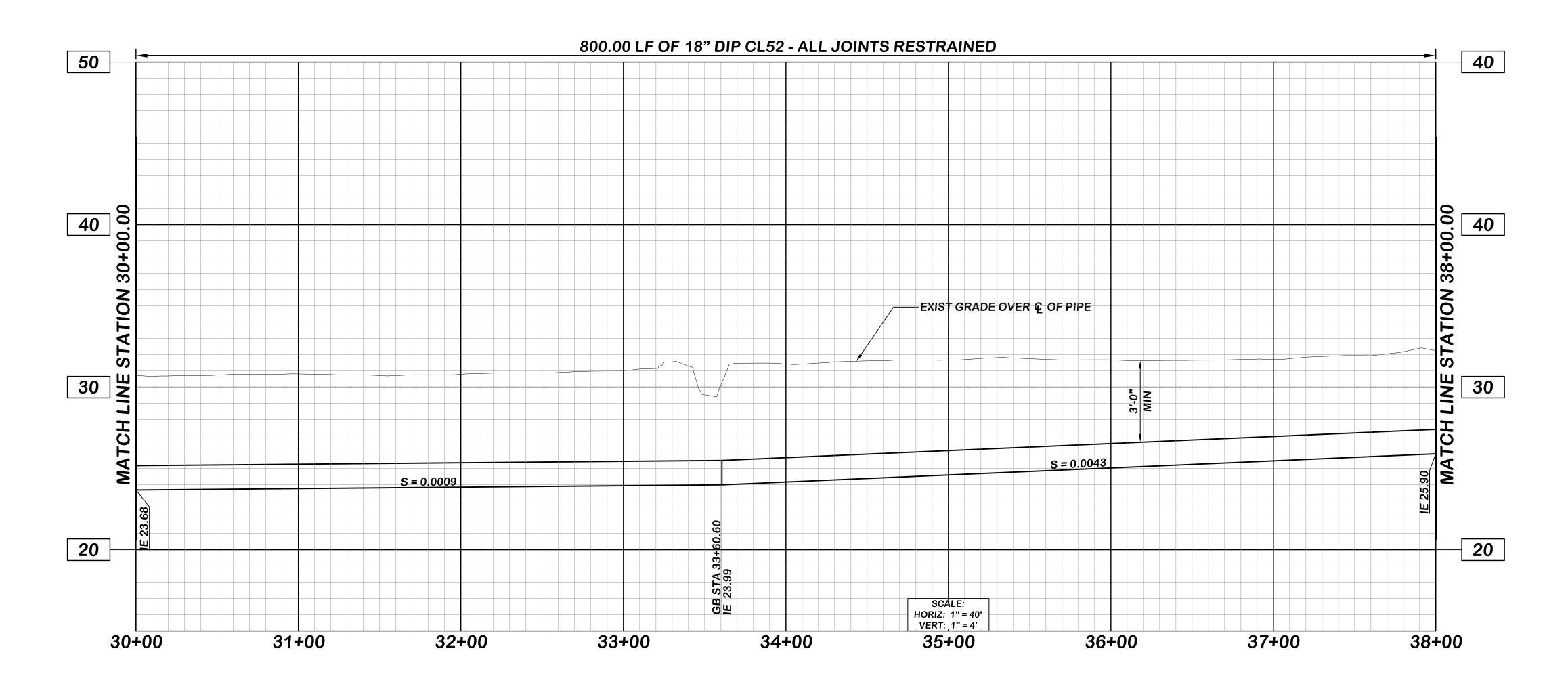
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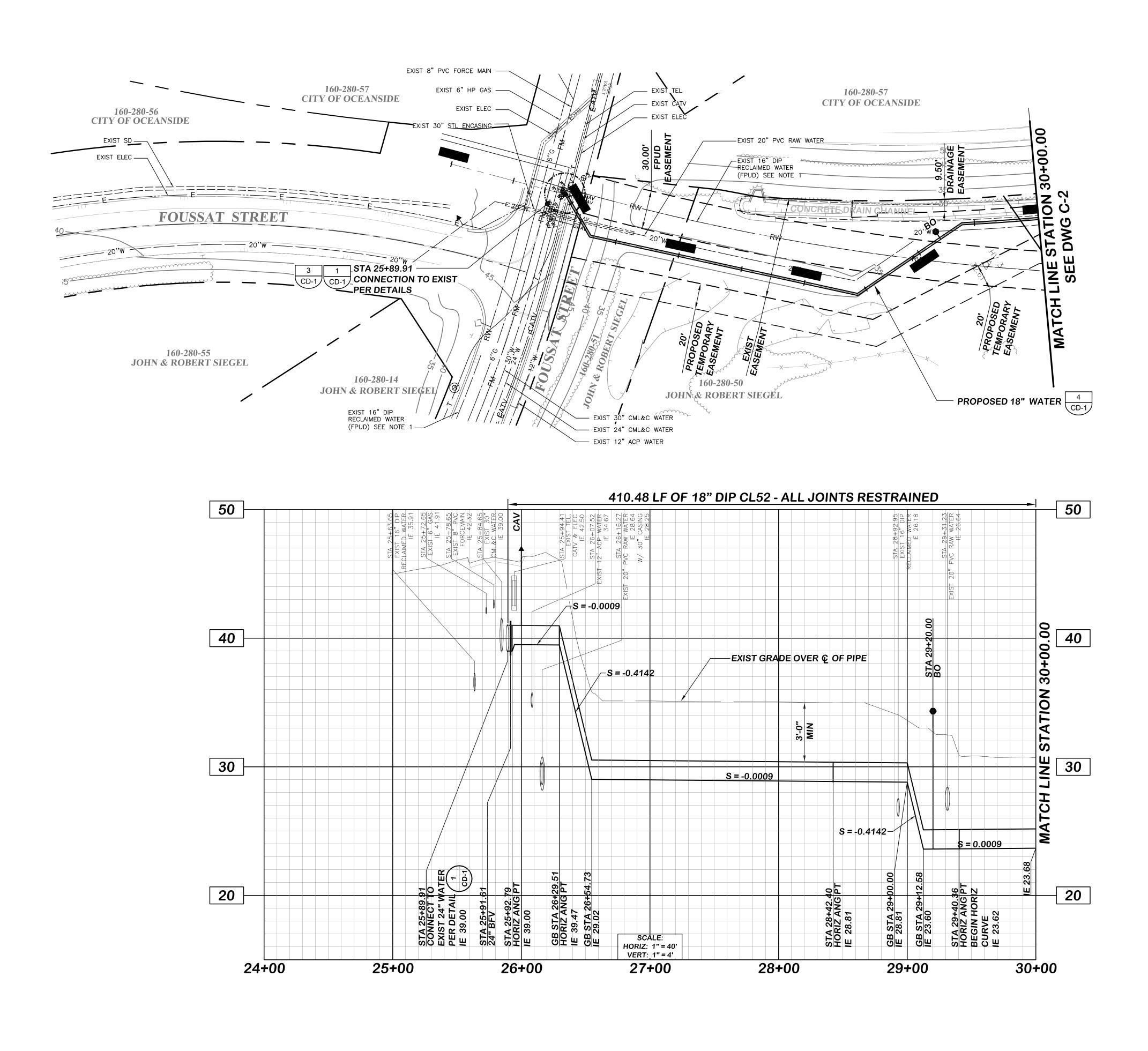
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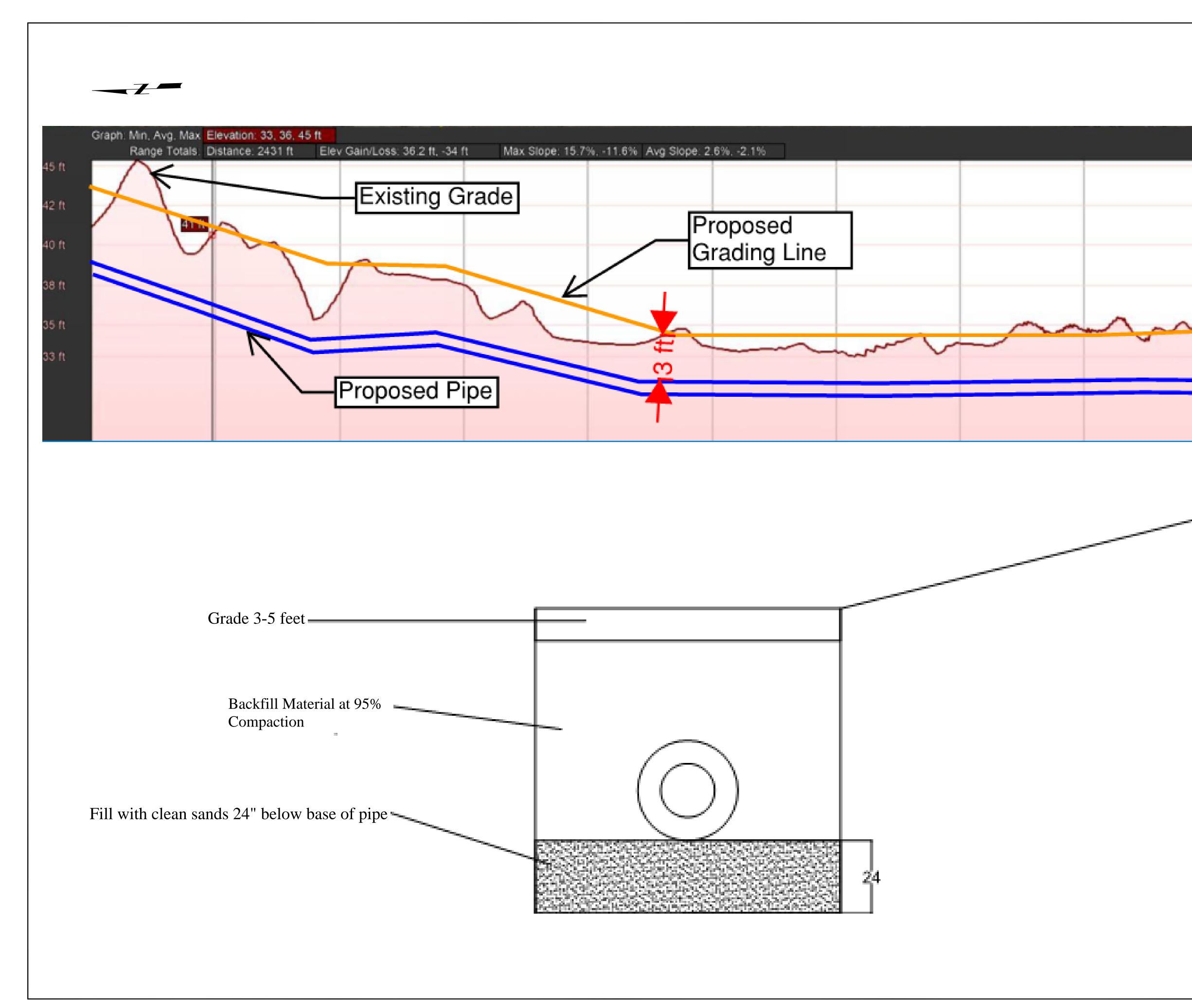
C. Thornbury

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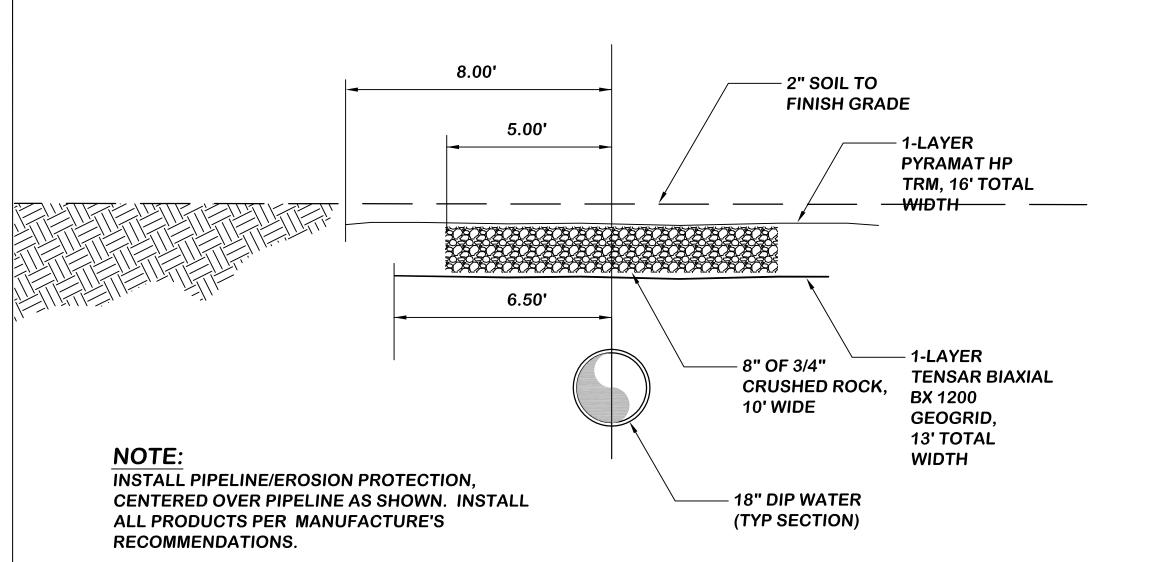


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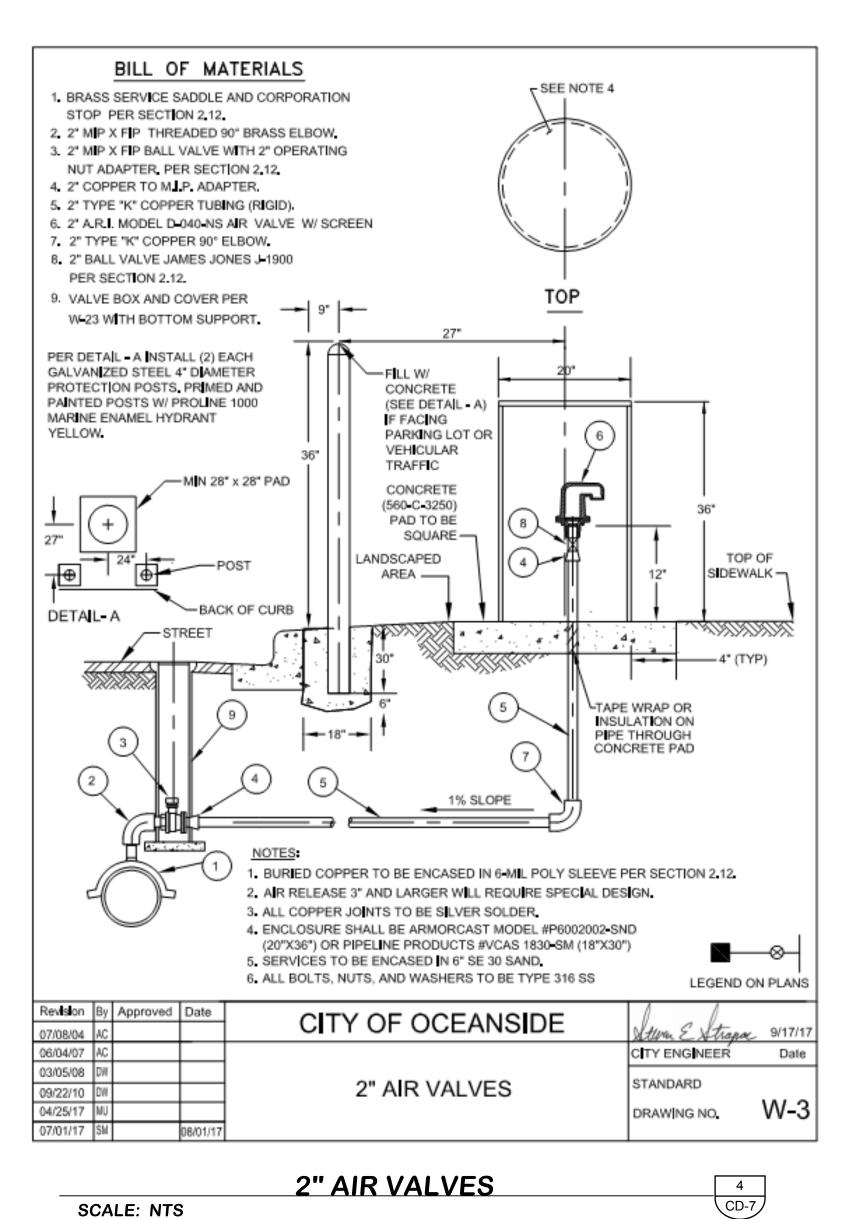
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GENERAL NOTE	<u>S</u>			
1. PIPE BEDDING CONFORM TO SA DRAWING WP-2	AN DIEGO REGIO			
2. COMPACTION	OF MATERIAL S	HALL BE	E 95%.	
3. ACCORDING T INCH MINIMUM C			RESTON	16
4. GRADE 3 TO 5 LOOSE FILL.	FEET SURFACE	TORE	JOVE	
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SCALE: NTS

		EXIST CAV (SEE NOTE 4)
	EXIST 24" DIP WATER	NEW CAV 6 (SEE NOTE 4)
EMOVE EXIST 24" BFV INSTALL NEW 24" BF OTHOLE REQ'D	V PER 3	18" DIP WATER - EXIST CAV TO BE RELOCATE (SEE NOTE 4)
EXISTINGOIR	POTHOLE R 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	EXIST 24" DIP WATER
	EXISTING DIS EXISTING DIS SCALE: NTS	CT TO EXIST 24" DIP 4 CD-7
EXISTING A	FULL REMOVAL & REPLACEMENT OF AC PAVEMENT AT 24" OR LESS IN THIS AREA (TYP.) .C.	
	1 1/2" MIN. 1 1/2" MIN. COLD PLANE OR GRIND (TYP.) WHEN EXISTING A.C. SECTION IS GREATER THAN 4". WHEN EXISTING A.C. SECTION IS	
CLASS II AT 95% RELATIVE COMPACTION MIN. 08 SAND CEMENT BACKFILL 08 OMPACT NATIVE MATERIAL 95% RELATIVE COMPACTION	1'. MINU 4 PIPE ZONE	FINISH
SAND CEMENT ONLY FOR NARROW TRENCH (10" AND LESS)	PIPE ZONE VARIES 10' MAX. FOR GENERAL NOTES	TING
A REPORT PREP SHALL BE SUBM CERTIFY THAT TH RANGE AND HAS SHALL BE TESTE	SEE M-3C WHEN NATIVE SOIL AND CLASS II IS USED AS BACKFILL. ARED BY A REGISTERED SOILS ENGINEER HTTED TO THE CITY. THE SOILS ENGINEER SHALL HE BACKFILL IS WITHIN THE OPTIMUM MOISTURE S BEEN PROPERLY COMPACTED. THE BACKFILL ED AT EACH VERTICAL FOOT, AND EACH 50 LINEAR H WITH A MINIMUM OF 1 TEST PER TRENCH.	
evision By Approved Date	CITY OF OCEANSIDE	Bal

CAV ECT IN PLACE)TE 4)

MATERIAL LIST:

(1) 24" x 24" x 18" FLANGED DI TEE

24" DI SPOOL W/ FCA AS REQ'D

24" 250 LB FLANGED BUTTERFLY VALVE W/ VALVE BOX AND COVER

18" 250LB FLANGED BUTTERFLY VALVE W/ VALVE BOX AND COVER

18" x 45° ELBOW W/ FLANGED COUPLING ADAPTER AS REQ'D

T CAV

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NOTES:

- 1. PIPELINE AND PUMP STATION LAYOUT **OBTAINED BY THE CITY OF OCEANSIDE 30** PERCENT DESIGN PACKAGE.
- 2. FIELD VERIFY DISTANCE PRIOR TO FABRICATION
- 3. PROVIDE FCA / CLOSURE FITTINGS AS REQ'D
- 4. DO NOT USE FITTING W/ ANCHOR BOLTS OR SERRATED RINGS THAT GRIP THE PIPE
- 5. PROTECT IN PLACE (OR REMOVE AND REINSTALL) EXISTING AIR VALVES, PIPING, AND APPURTENANCES. ALL ITEMS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT CONTRACTOR'S EXPENSE.



CITY OF OCEANSIDE WATER UTILITES DEPARTMENT

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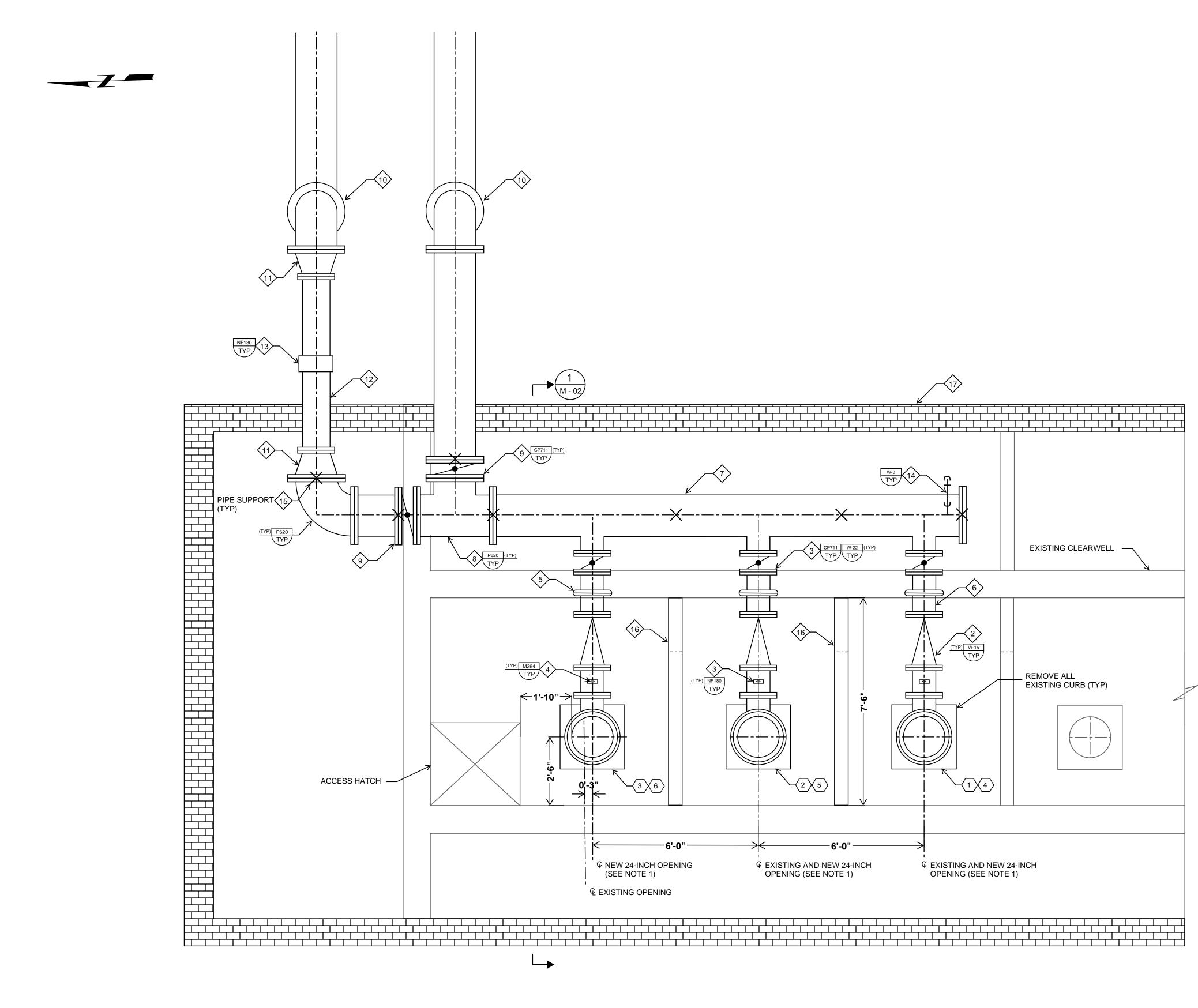
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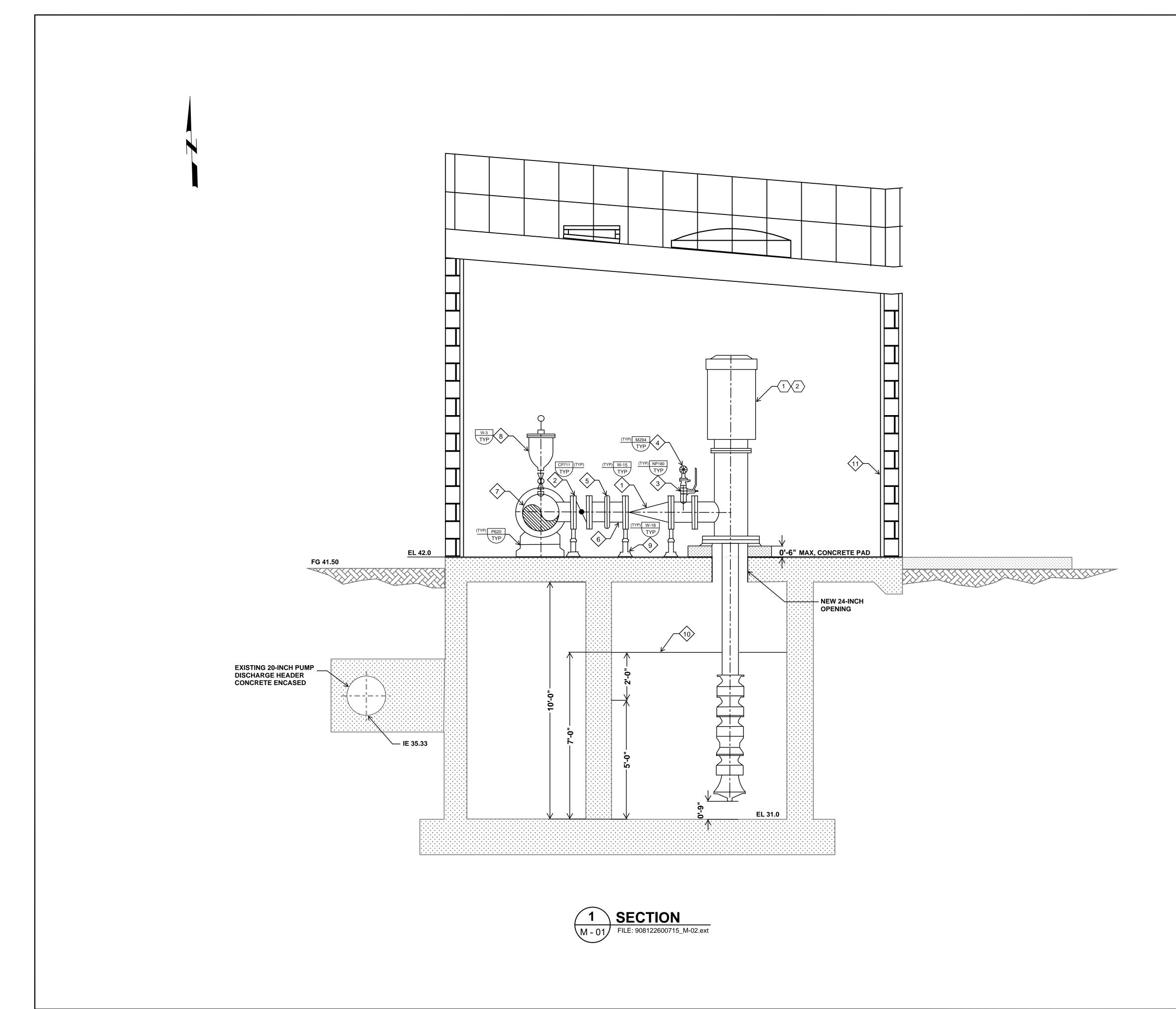
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GENERAL NOTE	<u>S</u>				
1. PIPELINE AND PUMP STATION LAYOUT OBTAINED BY THE CITY OF OCEANSIDE 30 PERCENT DESIGN PACKAGE.					
2. SAWCUT EXISTING 18-INCH OPENING TO PROVIDE 24-INCH NEW OPENING.					
3. ALL EXPOSED REINFORCE DUE TO SAWCUTTING MUST BE PATCHED WITH EXPOY.					
KEY NOTES					
1 10-INCH SWIN	G CHECK VALVE				
2 10-INCH BUTT	ERFLY VALVE				
	RANSMITTER				
4 PRESSURE G	AUGE				
	OUPLING				
6 10-INCH DUC	TILE IRON PIPE				
18-INCH DUC	TILE IRON DISCHA	RGE HE	EADER		
18-INCH DUC	TILE IRON TEE				
	TERFLY VALVE				
\sim	EGREE DUCTILE IF		ND		
\sim	TILE IRON REDCU	CER			
	TILE IRON PIPE				
\sim	NGED MAGNETIC F	LOW M	ETER		
\sim					
\sim	BAFFLE WALLS				
(17) CONCRETE N	ASONRY UNIT				
VERTICAL TU	RBINE PUMP NO. 1	1	PMP-5	511-01	
2 VERTICAL TU	RBINE PUMP NO. 2	2	PMP-5	511-02	
3 VERTICAL TU	RBINE PUMP NO. 3	3	PMP-5	511-03	
4 VARIABLE FR	EQUENCY DRIVE	NO. 1	VFD-5	511-01	
5 VARIABLE FR	EQUENCY DRIVE	NO. 2	VFD-5	511-02	
6 VARIABLE FR	EQUENCY DRIVE	NO. 3	VFD-5	511-03	
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2. SAWCUT EXISTING 18-INCH OPENING TO PROVIDE 24-INCH NEW OPENING.

3. ALL EXPOSED REINFORCE DUE TO SAWCUTTING MUST BE PATCHED WITH EXPOY.

KEY NOTES

- 10-INCH SWING CHECK VALVE
- 2 10-INCH BUTTERFLY VALVE
- 3 PRESSURE TRANSMITTER
- 4 PRESSURE GAUGE
- 5 VICTAULIC COUPLING
- 6 10-INCH DUCTILE IRON PIPE
- T 18-INCH DUCTILE IRON DISCHARGE HEADER
- ♦ CAV
- GALVANIZED PIPE SUPPORT
- CONCRETE BAFFLE WALLS
- CONCRETE MASONRY UNIT

EQUIPMENT TAG NUMBERS

- VERTICAL TURBINE PUMP NO. 3
- PMP-511-03
- 2 VARIABLE FREQUENCY DRIVE NO. 3 VFD-511-03



CITY OF OCEANSIDE WATER UTILITES DEPARTMENT

SCALE VERIFICATION
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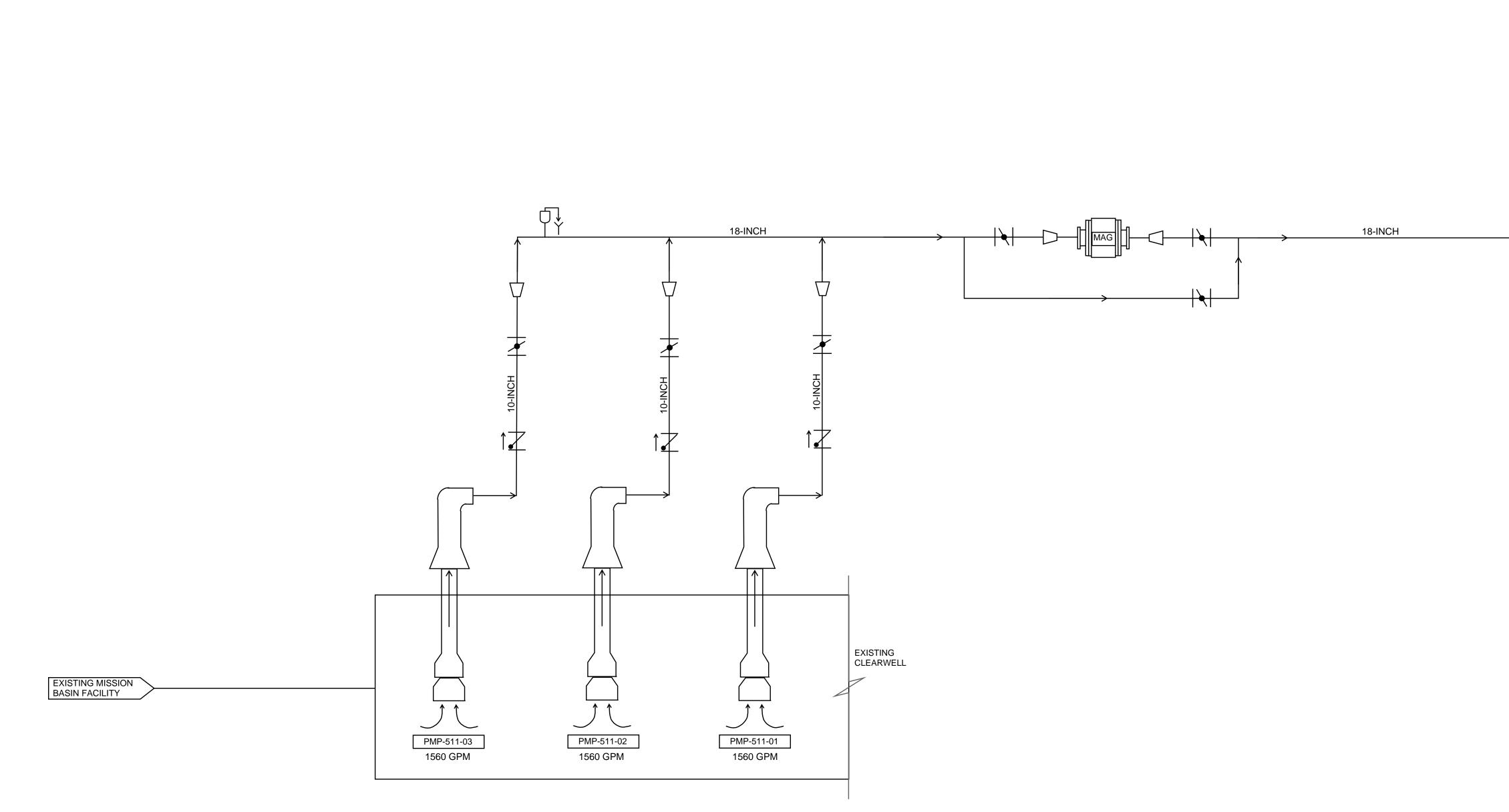
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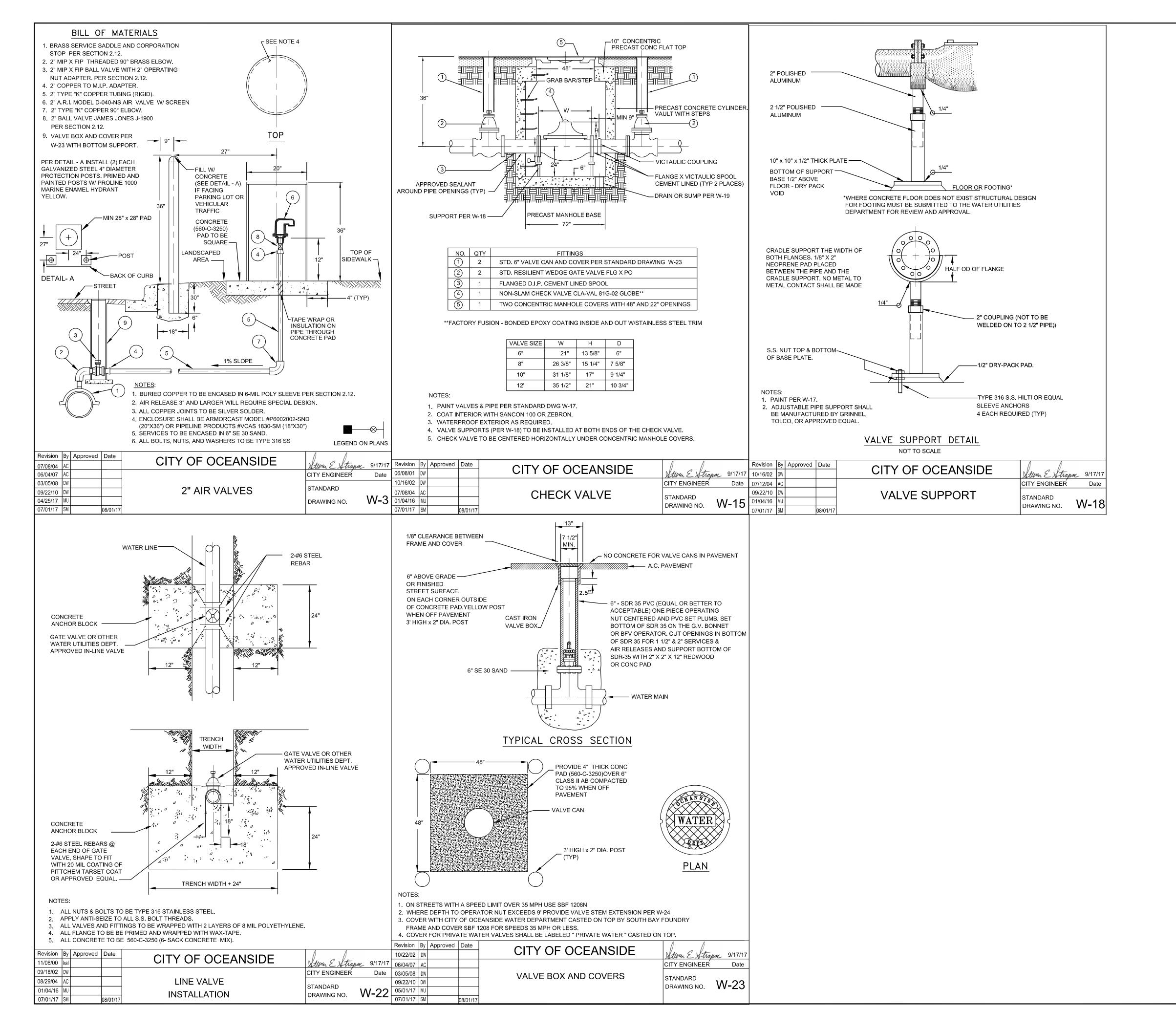
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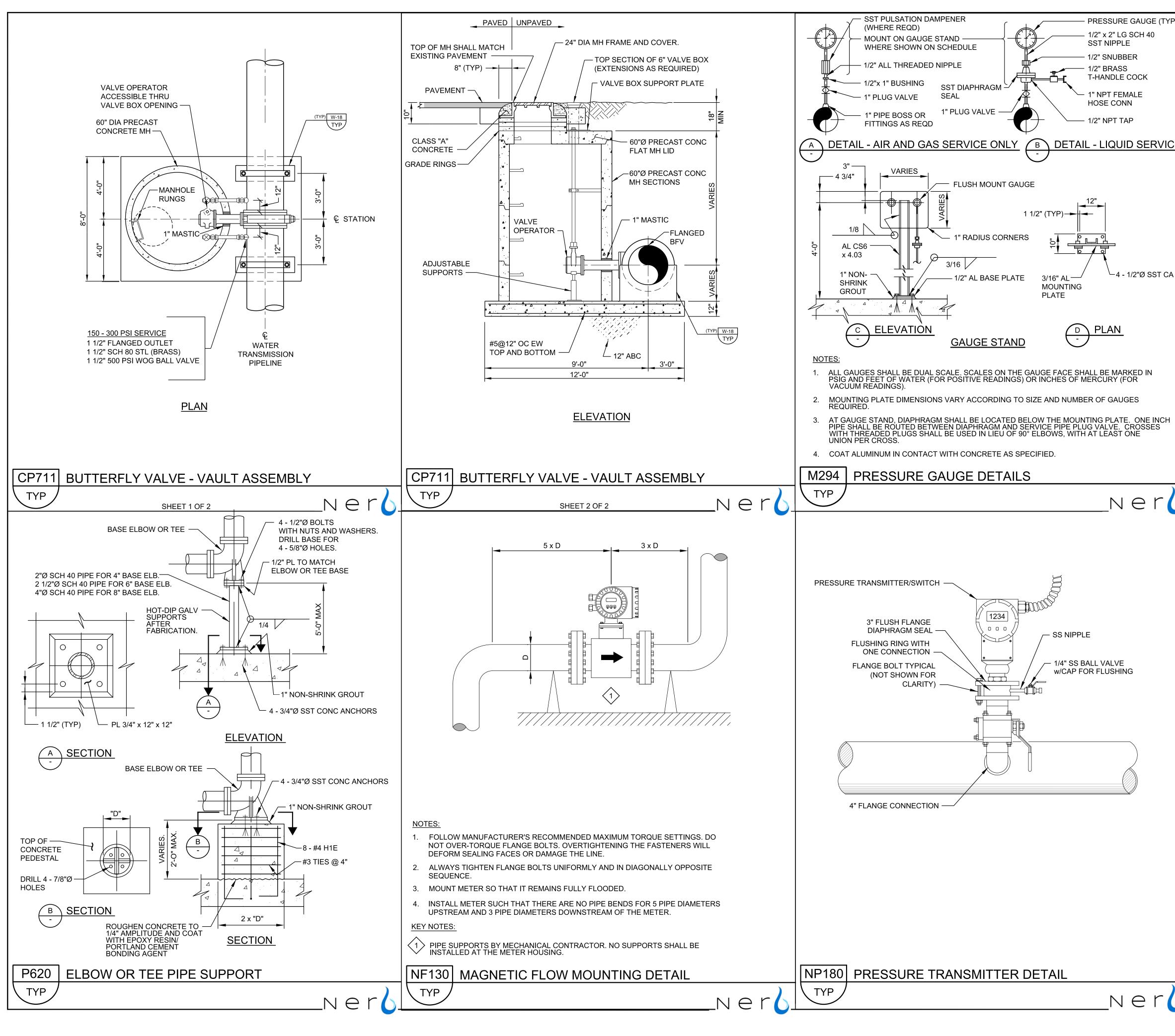
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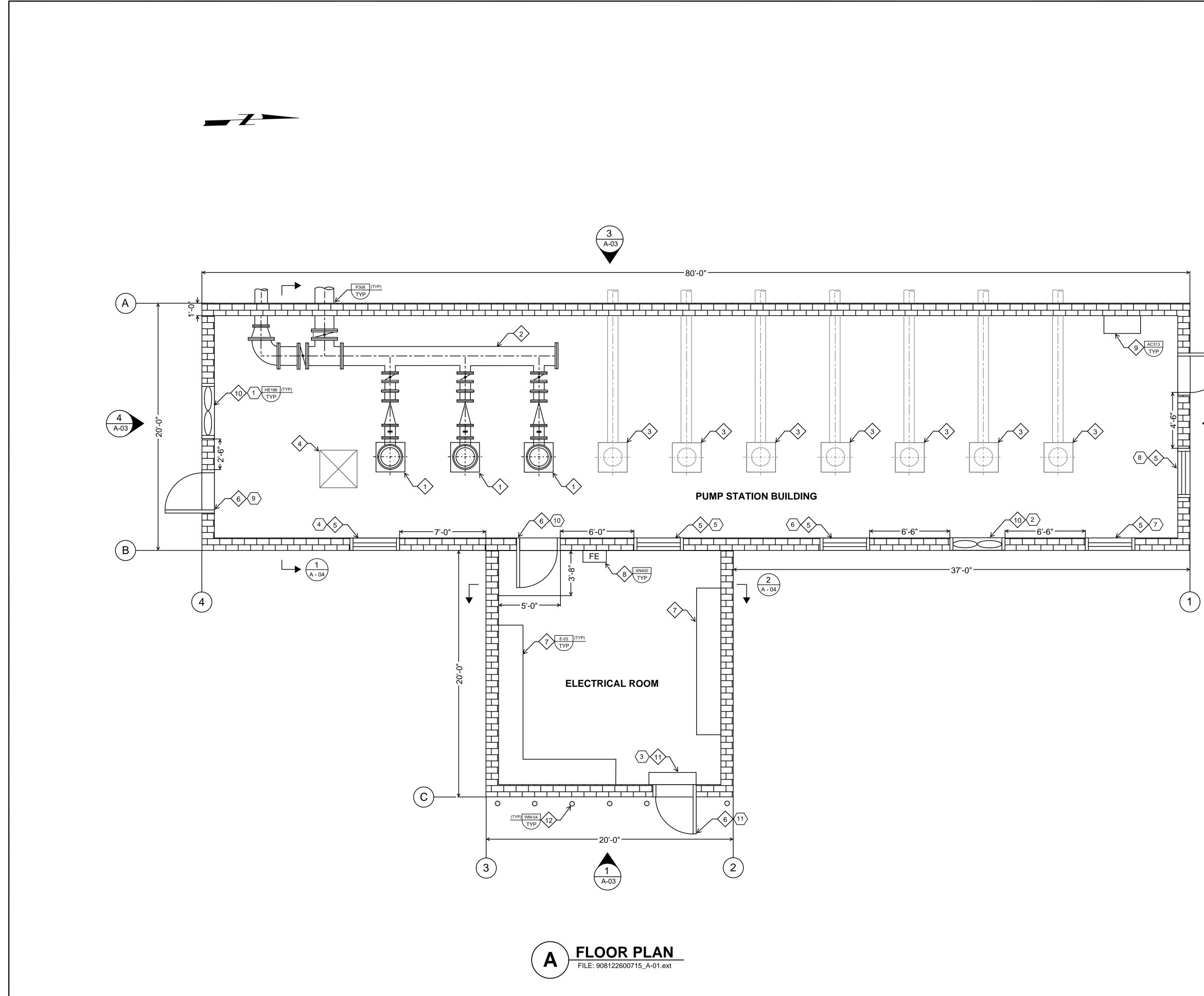
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CITY OF OCEANSIDE WATER UTILITES DEPARTMENT
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GENERAL NOTES

1. PIPELINE AND PUMP STATION LAYOUT OBTAINED BY THE CITY OF OCEANSIDE 30 PERCENT DESIGN PACKAGE.

2. DIMENSIONS ON PLAN ARE TAKEN FROM FACE OF BLOCK UNLESS OTHERWISE NOTED.

3. CONTRACTOR TO VERIFY EQUIPMENT AND CABINET SIZES IN THE ELECTRICAL ROOM AND INSTALL PRIOR TO DOOR INSTALLAION IF NEEDED.

4. FINISHED FLOOR @ PUMP STATION AND ELECTRICAL ROOM = 42.0'.

KEY NOTES

- 511 ZONE PUMP EQUIPMENT (SEE MECHANICAL DWGS)
- 2 511 ZONE PIPING (SEE CIVIL / MECHANICAL DWGS)
- (3) EXISITING 320 ZONE PUMP EQUIPMENT AND PIPING
- ACCESS HATCH
- (5) INTERIOR FIXED WINDOW (SEE G-04 FOR SCHEDULE)
- 6 HOLLOW METAL DOOR AND FRAME (SEE G-04 FOR SCHEDULE)
- CT ELECTRICAL EQUIPMENT
- (8) WALL MOUNTED FIRE EXTINGUISHER
- ALUMINUM LADDER
- (10) EXHAUST FAN (SEE MECHANICAL DWGS)
- WALL MOUNTED AC UNIT (SEE MECHANICAL DWGS)
- 4-INCH STEEL PROTECTION POST

TAG NUMBERS

1 EXHAUST FAN NO. 1	FAN-ELC-01
2 EXHAUST FAN NO. 2	FAN-ELC-01
$\langle 3 \rangle$ AIR CONDITION UNIT NO. 1	ACU-ELC-01
4 WINDOW NO. 1	
5 WINDOW NO. 2	(9) DOOR NO. 1
6 WINDOW NO. 3	$\langle 10 \rangle$ DOOR NO. 2
VINDOW NO. 4	(11) DOOR NO. 3
8 WINDOW NO. 5	DOOR NO. 4

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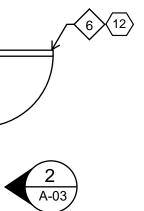
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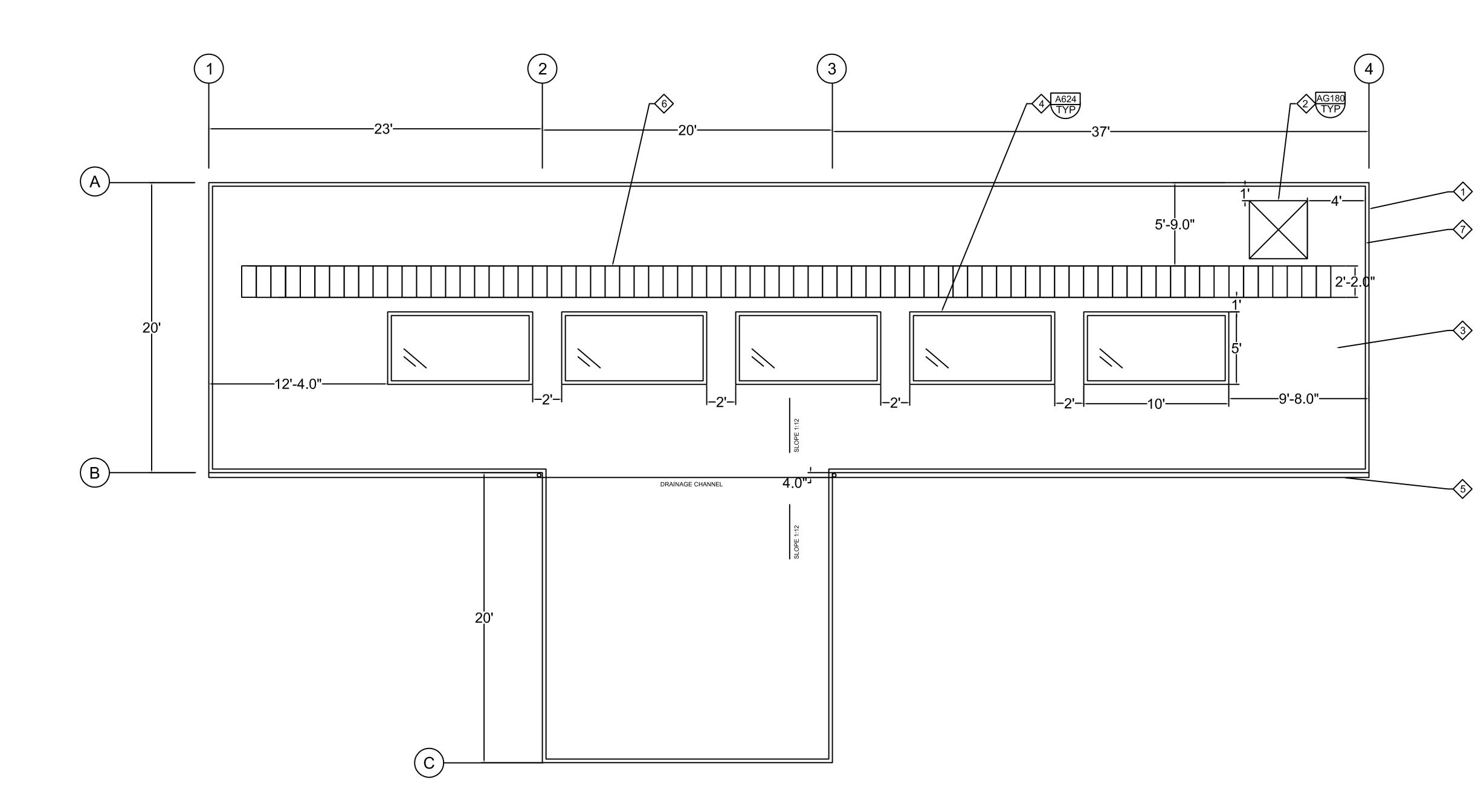
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Source Reference:

Project Manager: C. Thornbury	Reviewed By:	Date: 5/10/20	20
Scale:	Project №:	Report №:	Drawing №:
1/4" = 1' 0"	908122600715		20 of 29





I			
	GENERAL NOTES		
	1. GRID LINE DIMENSIONS TA OUTSIDE BLOCK WALL	AKEN FROM	Л
ł	KEY NOTES		
	CONCRETE MASONRY UNIT		
	ROOF ACCESS HATCH		
3 F	REINFORCED CONCRETE SLAB	ROOF	
	REMOVABLE SKYLIGHT CENTER EVERY TWO PUMPS (SEE G-04 F SCHEDULE)		
5 F	PREFINISHED 4" GUTTER W/ GU	ARD	
	KEEWALK ROOF TOP WALKWAY DESIGNED AND INSTALLED BY MANUFACTURE'S CONTRACTOR		
T I	ROOF RAILING 42" PER OSHA ST	ANDARDS	
	CITY OF OCEANSI WATER UTILITES DEPA		
	SCALE VERIFICATION		
TF	IS BAR MEASURES 50mm ON ORIGINAL. ADJUST SCAL	E ACCORDINGLY.	
	DRAWING STATUS		
	Status	Date	Initial

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ROOF PLAN

100% DESIGN 511 PUMP STATION

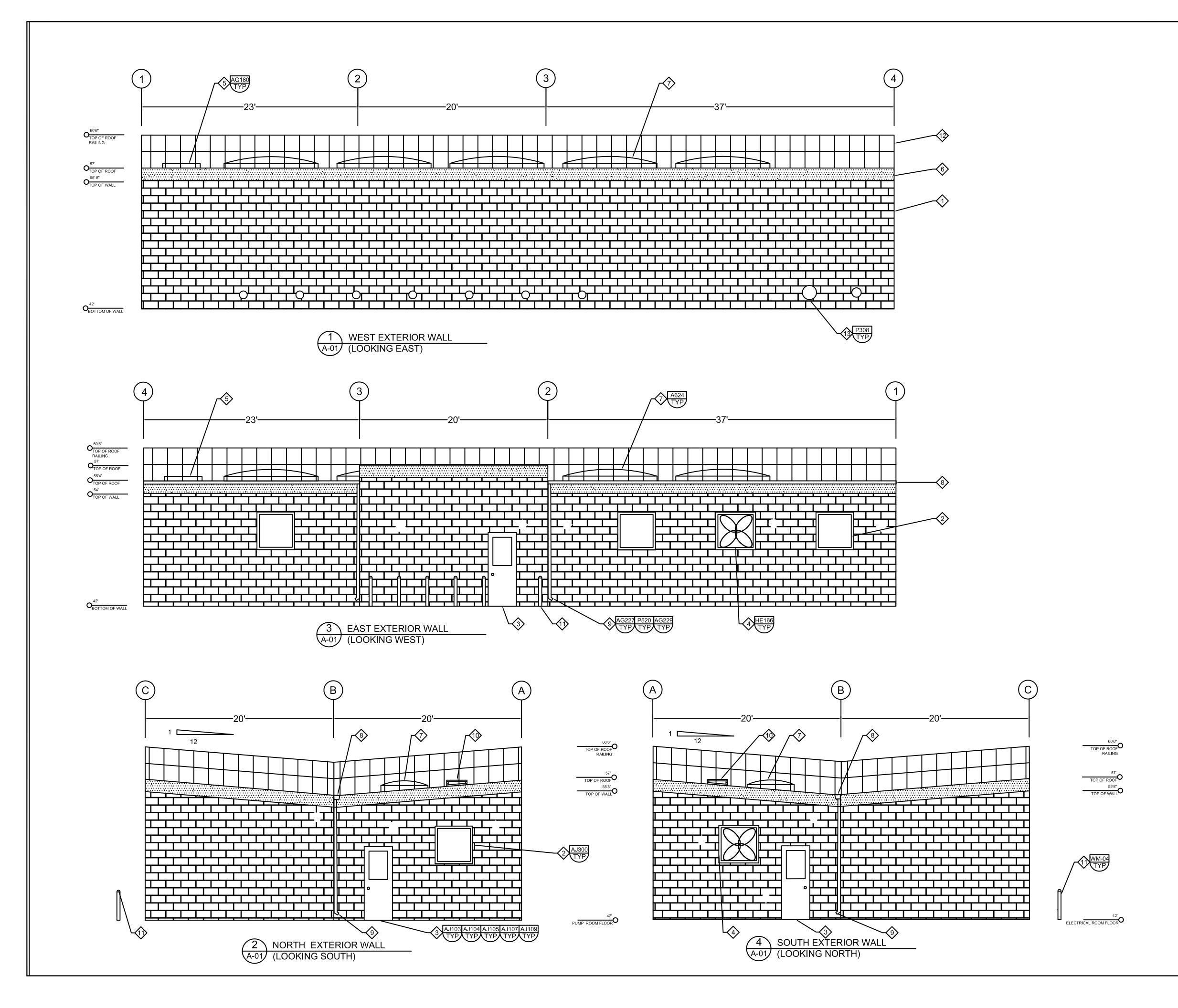
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Source Reference:

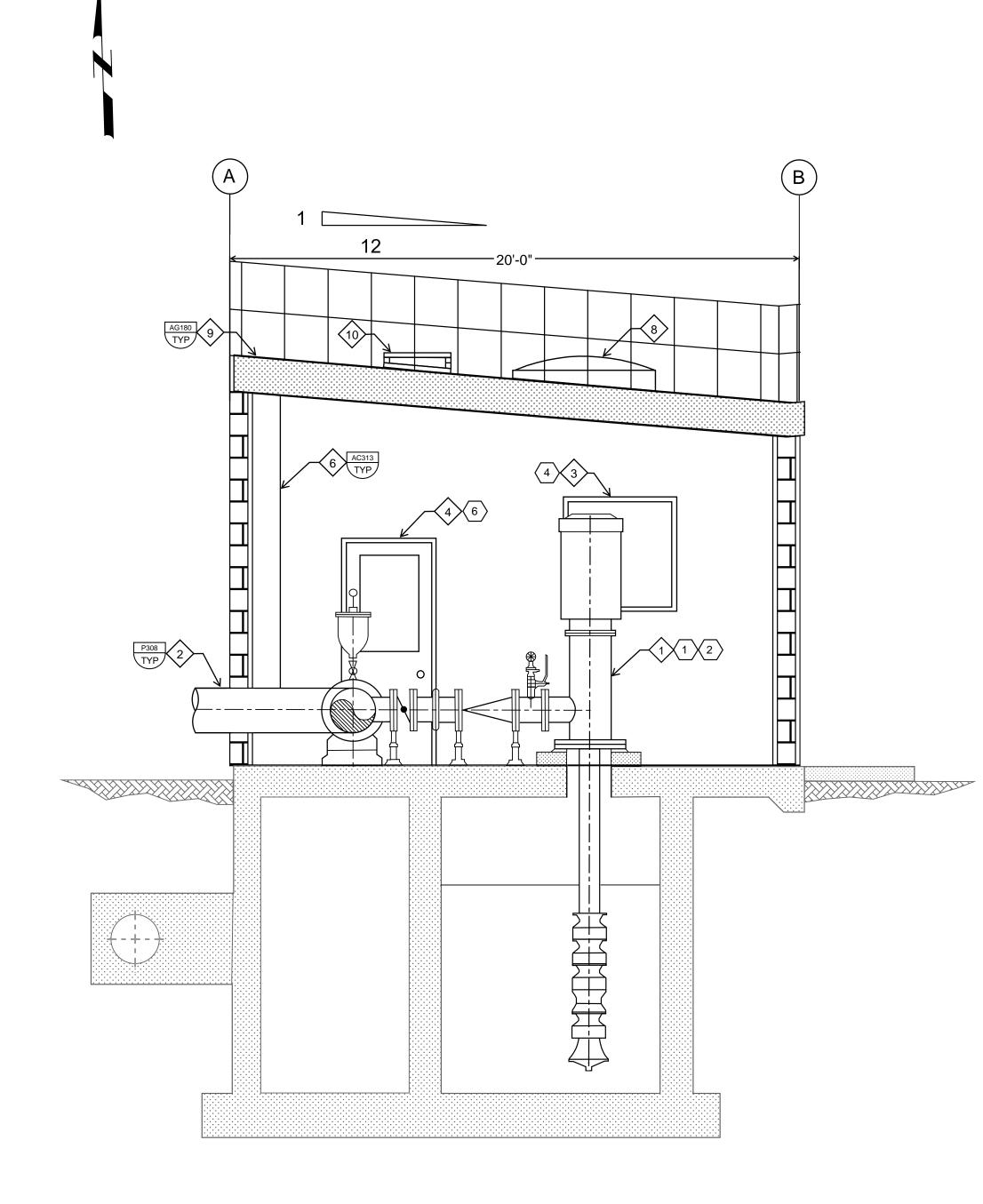
Project Manager: C. Thornbury	Reviewed By:	Date: 5/10/2020	
Scale:	Project Nº:	Report Nº:	Drawing Nº :
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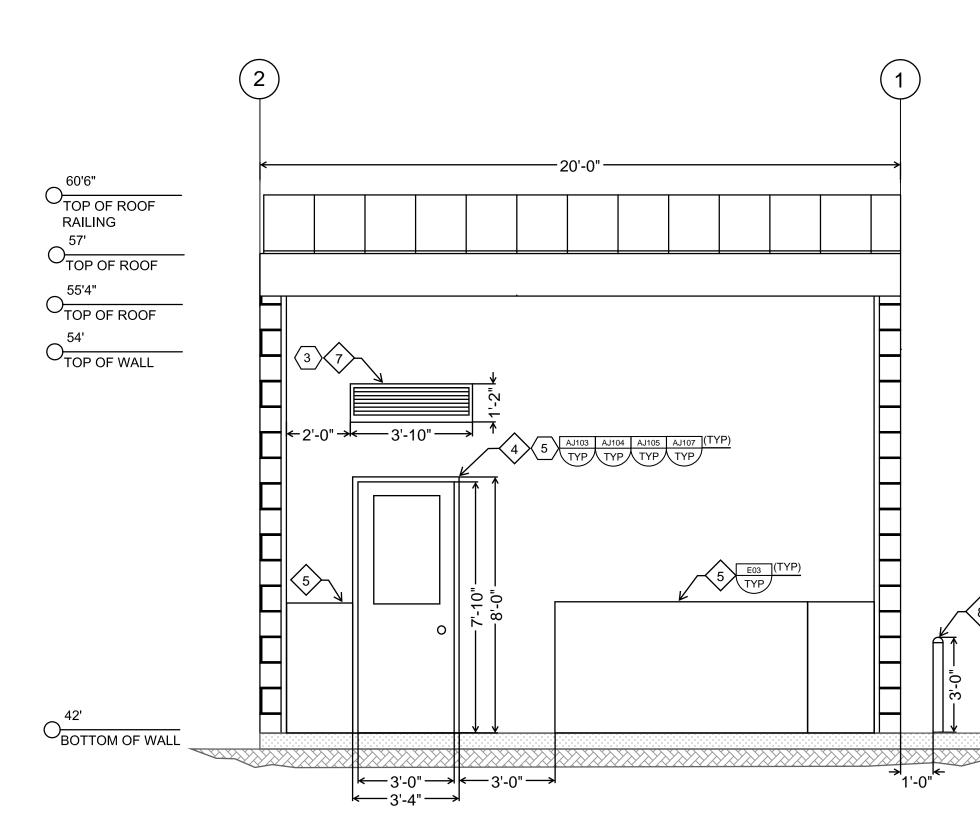
GENERAL NOTES

1.	GRID LINE DIMENSIONS TAKEN FROM
	OUTSIDE BLOCK WALL

	_	ES				
$\langle 1 \rangle$	CONCRETE MASONRY UNIT					
$\langle 2 \rangle$	INTERIOF SCHEDUI	R FIXED WINDO\ _E)	W (SEE	G-04	FOR	
$\langle 3 \rangle$	HOLLOW METAL DOOR AND FRAME (SEE G-04 FOR SCHEDULE)					
	EXHAUST	FAN (SEE MEC	HANIC	AL DW	/GS)	
$\langle 5 \rangle$	ROOF AC	CESS HATCH				
	REINFOR		E SLAE	B ROOI	=	
(7) (8)		BLE SKYLIGHT (WO PUMPS (SEI _E)				
	PREFINIS	HED 4" GUTTER	r W/ Gl	JARD		
\$	PREFINIS BLOCK	HED DOWNSPC)UT W/	SPLA	SH	
10	DESIGNE	K ROOF TOP WA D AND INSTALL CTURE'S CONTF	ED BY		ТЕМ	-
$\langle 1 \rangle$	PROTECT	FION POST 3'				
12	ROOF RA	ILING 42" PER C	OSHA S	STAND	ARD	S
13	DISCHAR	GE PIPE HEADE	R			
CITY OF OCEANSIDE WATER UTILITES DEPARTMENT						
	W/		-		IT	
	W/		DEPAF		IT	
ТН		ATER UTILITES	DEPAR ON	RTMEN		
TH		ATER UTILITES SCALE VERIFICATI S 50mm ON ORIGINAL. AD.		RTMEN		
		ATER UTILITES		RTMEN		
		ATER UTILITES SCALE VERIFICATI S 50mm ON ORIGINAL. AD.		RTMEN		
		ATER UTILITES SCALE VERIFICATI S 50mm ON ORIGINAL. AD.		RTMEN		
		ATER UTILITES SCALE VERIFICATI S 50mm ON ORIGINAL. AD. DRAWING STATU			NGLY.	
		ATER UTILITES SCALE VERIFICATI S 50mm ON ORIGINAL. AD.		RTMEN	NGLY.	Initial
	IS BAR MEASURE	ATER UTILITES SCALE VERIFICATI S 50mm ON ORIGINAL. AD. DRAWING STATU			NGLY.	Initial
		ATER UTILITES SCALE VERIFICATI S 50mm ON ORIGINAL. AD. DRAWING STATU			NGLY.	Initial
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	IS BAR MEASURE	ATER UTILITES SCALE VERIFICATI S 50mm ON ORIGINAL. AD. DRAWING STATU DRAWING STATU Status ERIOR ELE DESIGN 511 PUI A - 03			NGLY.	
	IS BAR MEASURE	ATER UTILITES SCALE VERIFICATI S 50mm ON ORIGINAL. AD. DRAWING STATU DRAWING STATU Status ERIOR ELE DESIGN 511 PUI A - 03			NGLY.	
	IS BAR MEASURE	ATER UTILITES SCALE VERIFICATI S 50mm ON ORIGINAL. AD. DRAWING STATU DRAWING STATU Status ERIOR ELE DESIGN 511 PUI A - 03			NGLY.	
NERC Source Refer	IS BAR MEASURE	ATER UTILITES SCALE VERIFICATI S 50mm ON ORIGINAL. AD. DRAWING STATU DRAWING STATU Status ERIOR ELE DESIGN 511 PUI A - 03 TANTS			NGLY.	2

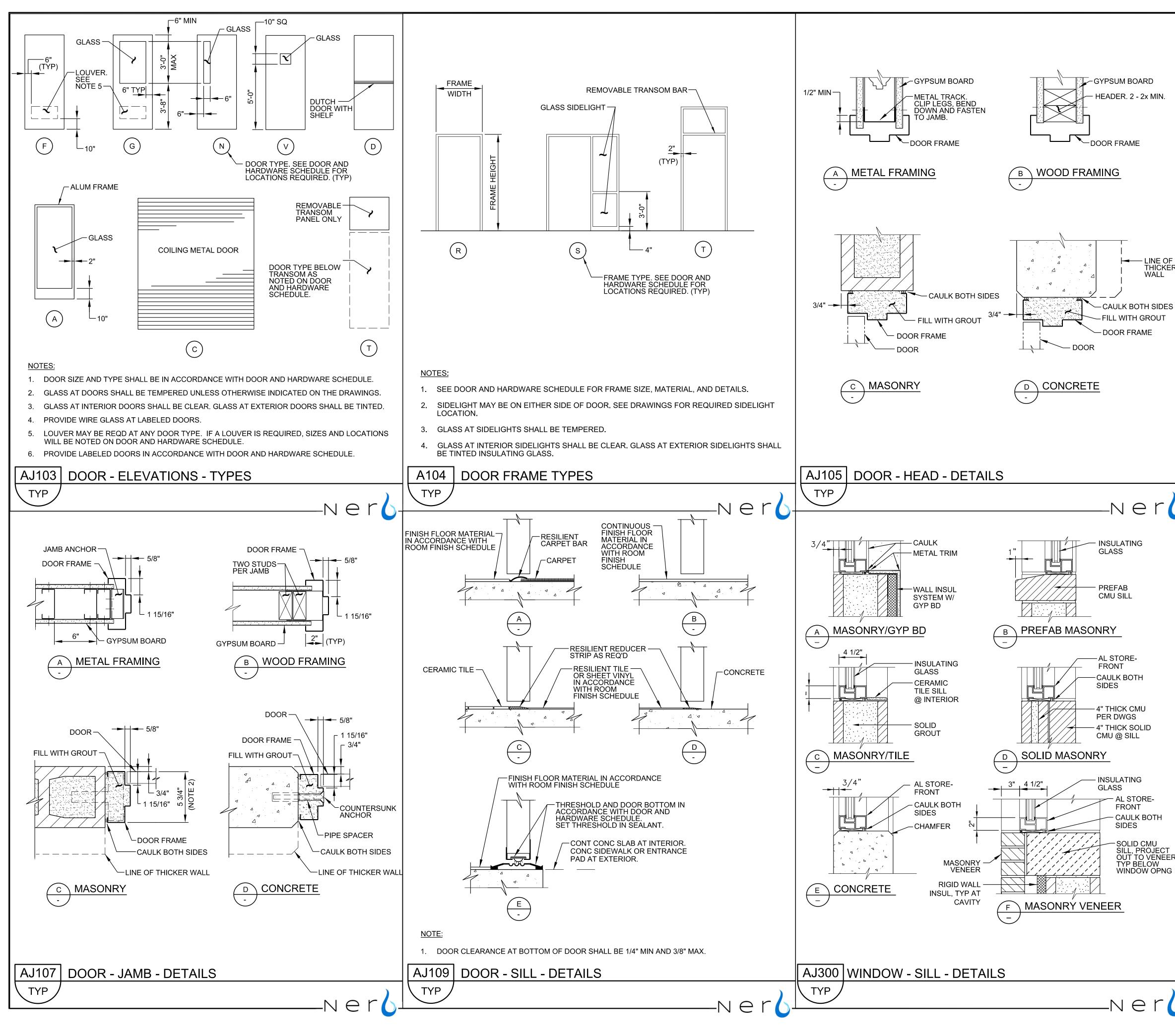




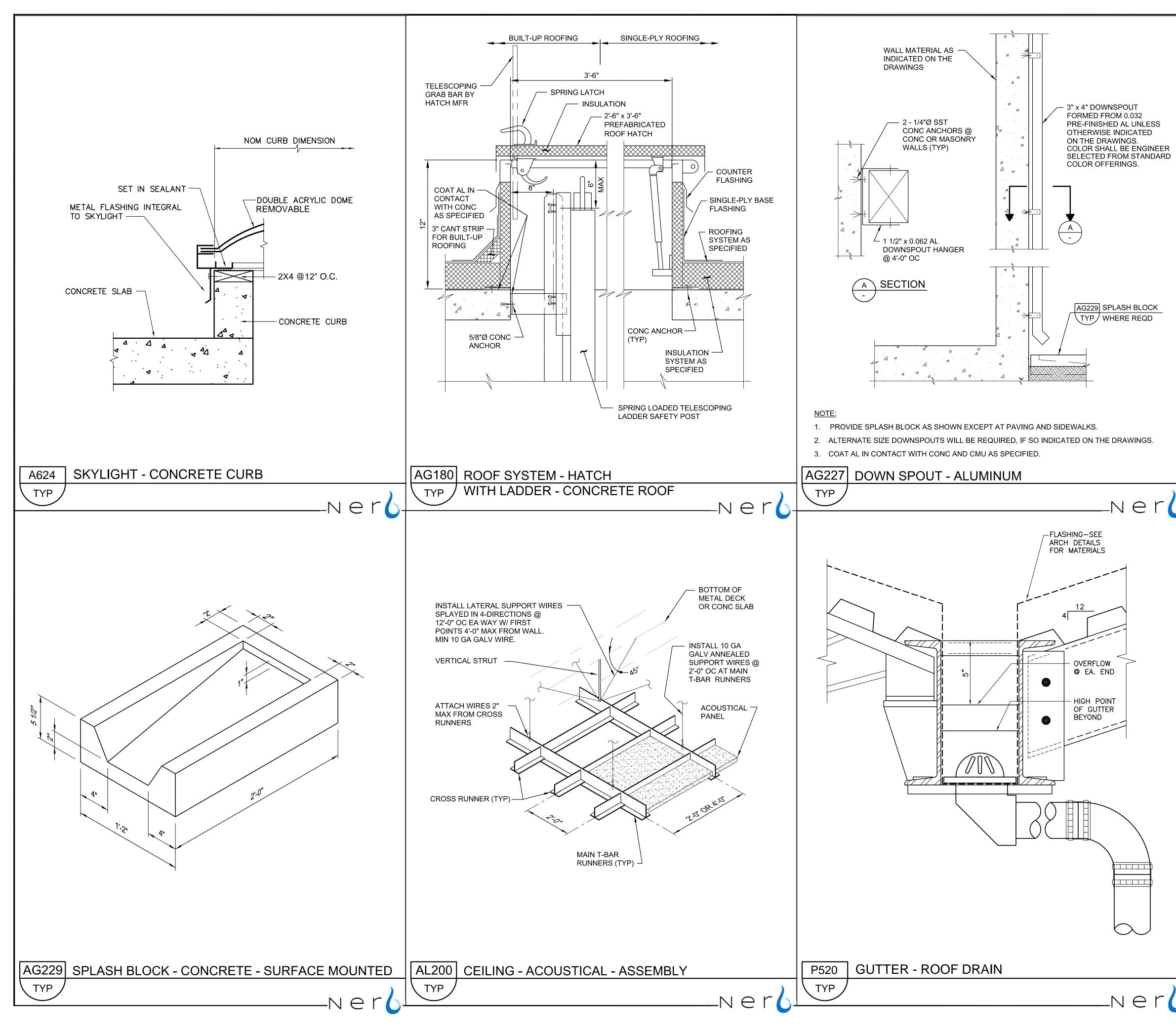




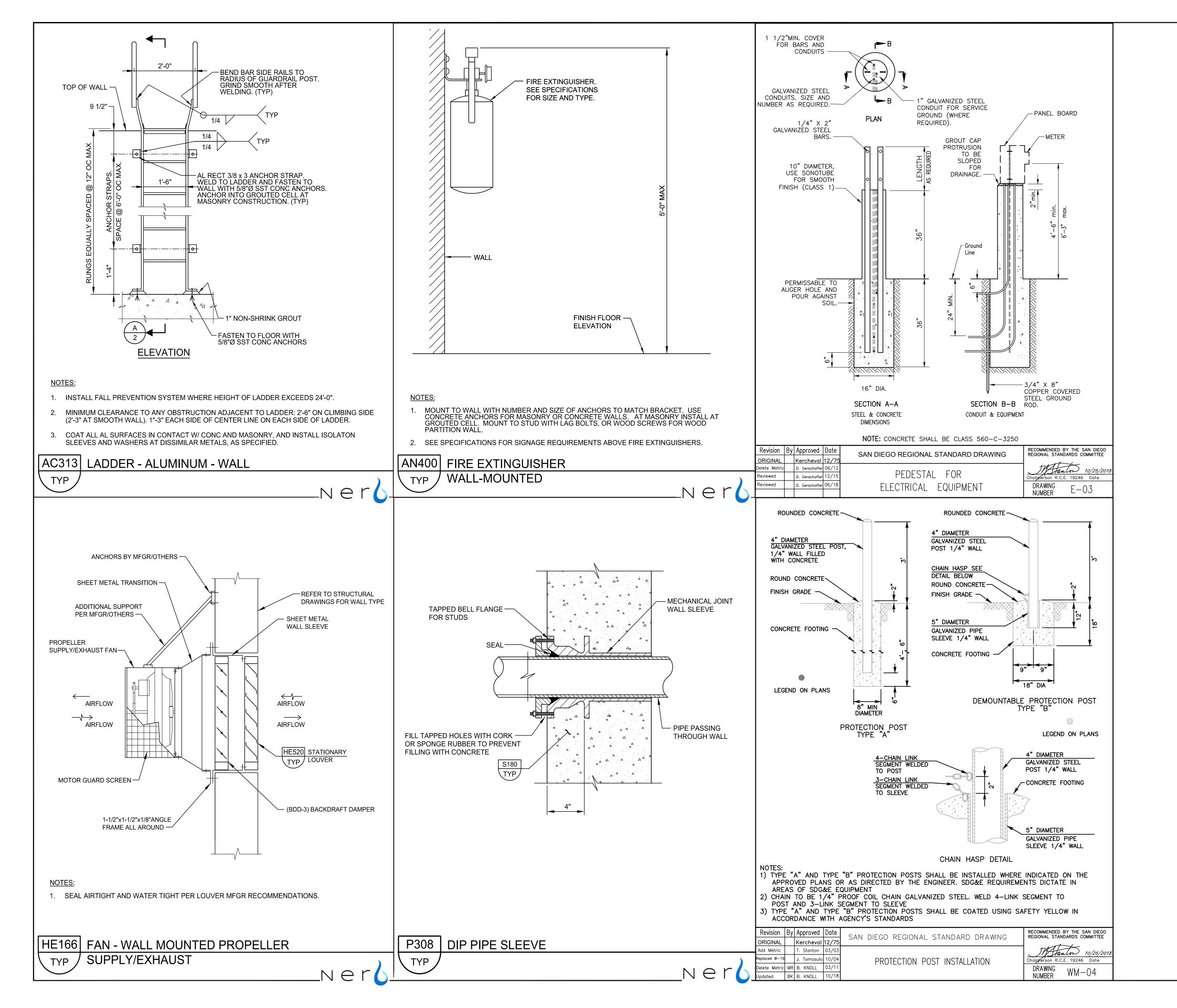
GENERAL NOTES
1. PIPELINE AND PUMP STATION LAYOUT OBTAINED BY THE CITY OF OCEANSIDE 30 PERCENT DESIGN PACKAGE.
2. DIMENSIONS ON PLAN ARE TAKEN FROM FACE OF BLOCK UNLESS OTHERWISE NOTED.
3. ALL GRID LIKE DIMENSIONS ARE TAKEN FROM FACE OF BLOCK WALL.
4. CONTRACTOR TO VERIFY EQUIPMENT AND CABINET SIZES IN THE ELECTRICAL ROOM AND INSTALL PRIOR TO DOOR INSTALLAION IF NEEDED.
KEY NOTES
(1) 511 ZONE PUMP EQUIPMENT (SEE MECHANICAL DWGS) (2) 511 ZONE PIPING (SEE CIVIL / MECHANICAL DWGS)
 3) INTERIOR FIXED WINDOW (SEE G-04 FOR SCHEDULE)
HOLLOW METAL DOOR AND FRAME (SEE G-04 FOR SCHEDULE)
5 ELECTRICAL EQUIPMENT
6 ALUMINUM LADDER
VALL MOUNTED AC UNIT (SEE MECHANICAL DWGS)
 20 MINUTE FIRE RATING, REMOVABLE SKYLIGHT CENTERED BETWEEN EVERY TWO PUMPS (SEE G-04 FOR SCHEDULE)
$\langle 9 \rangle$ ROOF SYSTEM ACCESS HATCH (NOT SHOWN) $\langle 10 \rangle$ KEEWALK ROOF TOP WALKWAY SYSTEM - DESIGN
AND INSTALLED BY MANUFACTURER'S CONTRACTOR
TAG NUMBERS
(1) VERTICAL TURBINE PUMP NO. 3 PMP-511-03
(2) VARIABLE FREQUENCY DRIVE NO. 3 VFD-511-03
(3) AIR CONDITION UNIT NO. 1 ACU-ELC-01
$\langle 4 \rangle$ WINDOW NO. 5
$\langle 5 \rangle$ DOOR NO. 3
$\langle 6 \rangle$ DOOR NO. 4
CITY OF OCEANSIDE WATER UTILITES DEPARTMENT
SCALE VERIFICATION
THIS BAR MEASURES 50mm ON ORIGINAL. ADJUST SCALE ACCORDINGLY.
DRAWING STATUS
Status Date Initial
ARCHITECTURAL SECTIONS
100% DESIGN 511 PUMP STATION
A - 04
NERO CONSULTANTS NEro
Project Manager: Reviewed By: Date:
C. Thornbury 5/10/2020
Scale: Project №: Report №: Drawing №:
1/3" = 1' 0" 908122600715 23 of 29



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		SCALE VERIFICAT	ION		
	THIS BAR MEASURE	ES 50mm ON ORIGINAL.AD	JUST SCALE AC	CORDINGLY.	
		DRAWING STATU	JS		
		Status		Date	Initial
	DOO	R / WINDOW DETAILS		AL	
	100%	DESIGN 511 PU	IMP STAT	ION	
,		AD - 0	1		
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	Source Reference:	Pavioued Pre			
	Project Manager: C. Thornbury	Reviewed By:		0/2020	
)-	Scale:	Project Nº: 908122600715	Report Nº:	Drawin 24 C	^{ng} №: of 29



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	CITY OF OCEANSIDE WATER UTILITES DEPARTMENT			
	THIS BAR MEASURES 50mm ON ORIGINAL. ADJUST SCALE ACCORDINGLY.			
	DRAWING STATUS			
	Status Date Initial			
	ROOF / DRAINAGE TYPICAL DETAILS			
	100% DESIGN 511 PUMP STATION			
	AD - 02			
	Source Reference: Project Manager: Reviewed By: Date:			
)-	C. Thornbury 5/10/2020 Scale: Project Nº: Report Nº: Drawing Nº: 908122600715 25 of 29			



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SCALE VERIFICATION THIS BAR MEASURES 50mm ON ORIGINAL. ADJUST SCALE	E ACCORDINGLY.	
DRAWING STATUS		
Status	Date Initial	
MISCELLANEOUS TYPICAL DETAILS		
100% DESIGN 511 PUMP ST	ATION	
AD - 03		
NERO CONSULTANTS NERÓ		
Source Reference: Project Manager: Reviewed By: Date:	5/10/2020	
C. ThornburyProject Nº:Scale:Project Nº:908122600715Report Nº:		





	CITY OF WATER UTILI	OCEANS TES DEPA		
	SCALE VERI	-ICATION		
THIS BAR MEA	ASURES 50mm ON ORIGIN	AL. ADJUST SCA	LE ACCORDINGLY.	
	DRAWING	STATUS		
	Status		Date	Initial
CONSTRUCTION STAGING PLAN				
CC			GING	
		N		
	PLA	N PUMP ST		
100	PLA 9% DESIGN 511	N PUMP ST 01		6
100	PLA 9% DESIGN 511 CN -	N PUMP ST 01	ATION	6

5/10/2020 C. Thornbury Report Nº: Drawing Nº: Project Nº: cale: 27 of 29 908122600715



GENERAL NOTES

1. THE RECIPIENTS OF THESE SECURITY DESIGN DOCUMENTS ARE NOT PREMITTED TO PRINT, COPY. OR DISCLOSE THE CONTENT OF THESE DOCUMENTS TO OUTSIDE PARTIES WITHOUT EXPLICT PERMISSION FROM NERO CONSULTANTS OR CITY OF OCEANSIDE.

- 2. REFER TO G-04 FOR SECURITY SCHEDULE.
- 3. APPROXIMATE LOCATIONS SHOWN.

4. GATE SIZES AND LOCATION OF DEVICES TO BE FIELD VERIFIED WITH ENGINEER.

<u>KEY NOTES</u>

1 MAIN GATE ACCESS

- 2 DOUBLE SWING CHAIN LINK GATE
- 3 SECURITY CAMERA REGION OF CAPTURE
- CHAIN LINK FENCING WITH EXTENSION ARM AND BARBED WIRE
- 5 PEDESTRIAN ACCESS GATE
- 6 PROVIDE 25 FT POLE

EQUIPMENT TAG NUMBERS

- (1) SECUTIRY CAMERA NO. 1 CAM-511-01
- 2 SECUTIRY CAMERA NO. 2
- $\langle 3 \rangle$ SECUTIRY CAMERA NO. 3

4 SECUTIRY CAMERA NO. 4

LEGEND



P PTZ CAMERA

- F FIXED CAMERA
- T THERMAL CAMERA



CITY OF OCEANSIDE WATER UTILITES DEPARTMENT

CAM-511-02

CAM-511-03

CAM-511-04

-URAL		
SCALE VERIFICATION		
THIS BAR MEASURES 50mm ON ORIGINAL. ADJUST SCAL	E ACCORDINGLY.	
DRAWING STATUS		
Status	Date	Initial

SECURITY PLAN

100% DESIGN 511 PUMP STATION

CN - 02

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ource Reference:

Project Manager: C. Thornbury	Reviewed By:	Date: 5/10/2020	
Scale:	Project №: 908122600715	Report №:	Drawing №: 28 of 29

