



## PUBLIC WORKS DEPARTMENT

Engineering Division  
303 West Commonwealth Avenue, Fullerton, CA 92832-1775  
Telephone: 714-738-6845  
Website: [www.cityoffullerton.com](http://www.cityoffullerton.com)

**July 17, 2024**

### **COYOTE BOOSTER PUMP STATION PUMP CAN REPLACEMENT PROJECT NO. 53002**

#### **ADDENDUM NO. 1**

**TO:** ALL PLAN AND SPECIFICATION HOLDERS

THIS ADDENDUM, AS DESCRIBED BELOW, IS FOR USE OF CONTRACTORS AND SUBCONTRACTORS SUBMITTING BIDS ON THIS PROJECT. ALL BIDDERS SHALL INDICATE ON THE BID PROPOSAL FORM THAT THEY HAVE RECEIVED THIS ADDENDUM.

#### **GENERAL:**

A copy of the sign-in sheet from the mandatory pre-bid job walk from July 8, 2024 has been included in this Addendum.

#### **QUESTIONS**

1. Is there a soils report available for the project?

Response: There are no soils reports available for the project.

2. How much area is available at the site for a laydown yard including temporary storage of excavated materials?

Response: See Exhibit A attached. The Contractor will be required to provide continuous access to the existing pump station and around the existing reservoir for City operations staff.

3. Can record drawings for the Coyote Booster Pump Station be made available to bidders?

Response: See attached for the record drawings.

#### **PROJECT SPECIFICATIONS**

##### **Bid Documents, Page BD-5 – Bid Acknowledgements**

REMOVE Page BD-5 in its entirety and REPLACE with revised Page BD-5 (attached).

##### **Technical Specifications, Section 01 01 00 – Summary of Work and Sequence of Construction**

MODIFY Part 1.1, Item A.7 to read as follows:

- “1. Install Owner reconditioned vertical turbine pump, discharge head, and motor.  
Reconditioned vertical turbine pump and motor assembly will be stored on site next to the existing pump station. Construct pump discharge with salvaged pump control valve.  
Paint exterior of new work.”

**Technical Specifications, Section 01 22 00 – Unit Prices**

REMOVE Section 01 22 00 in its entirety and REPLACE with revised Section 01 22 00 (attached).

**Technical Specifications, Section 33 12 51 – Vertical Turbine Lineshaft Pumps**

MODIFY Part 1.1, Item A to read as follows:

“A. Installation and testing of Owner reconditioned vertical turbine lineshaft water pump and attached motor.”

MODIFY Part 1.3, Item A to read as follows:

“A. Install and test Owner reconditioned pump, motor and necessary appurtenances as required by the Contract Documents.”

**CONSTRUCTION PLANS**

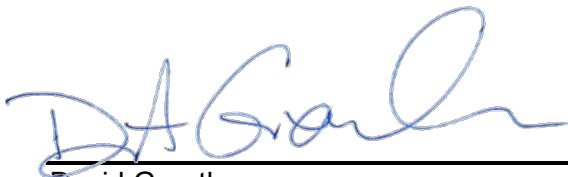
**Sheet 2 of 4 – Site and Demolition Plan**

REMOVE and REPLACE with revised Sheet 2 of 4 (attached).

**Sheet 3 of 4 – Mechanical Plan, Section, & Details**

REMOVE and REPLACE with revised Sheet 3 of 4 (attached).

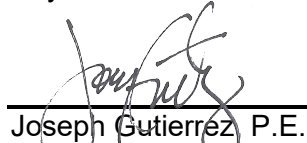
**END OF ADDENDUM NO. 1**



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David Grantham  
City Engineer  
City of Fullerton

July 17, 2024



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Joseph Gutierrez P.E.  
Engineer-of-Record  
JIG Consultants

July 17, 2024

**END OF ADDENDUM**

**CITY OF FULLERTON  
PUBLIC WORKS DEPARTMENT  
MEETING ATTENDANCE**

**PROJECT:** 53002 – Coyote BPS Pump Can Replacement  
**PURPOSE:** Pre-bid Meeting  
**DATE, TIME:** Monday, July 8, 2024; 10:00 AM  
**PLACE:** 2470 Pioneer Ave, Fullerton, CA 92835  
**PROJECT MANAGER:** Vittorio LaRussa (714) 738-6567

PARTICIPANTS	ORGANIZATION	PHONE NUMBER	EMAIL
Vittorio LaRussa	City of Fullerton	(714) 738-6567	Vittorio.larussa@cityoffullerton.com
Richard Armendariz	City of Fullerton	(714) 738-5337	Richard.Armendariz@cityoffullerton.com
Ronnie Acosta	City of Fullerton	(714) 738-6374	ronnie.acosta@cityoffullerton.com
Gerardo Hernandez	City of Fullerton	(714) 738-6552	Gerardo.hernandez@cityoffullerton.com
Brian Wagner	Big Ben Eng	9494361601	Brian@BigBenEngineering.com
Geoff Fulkerson	RC Foster	951 738 8211	estimating@rcfoster.com
Douglas Kraft	Tharsos Inc	6194641261	RWilliams@tharsosinc.com
George Luk	Southern Cal Const	3108062828	SocalConst1068@gmail.com
JAY MEHTA	MMC Inc	714-521-2022	JAY@aboutmmc.com
Bill Winneshick	CORA CONSTRUCTORS	760 674-1536	lynn@coraconstructors.com
ANDREW GRASDA	CITY OF FULLERTON	(714) 738-6808	
LOUIS GONZALES	CITY OF FULLERTON	714-738-6309	LOUIS.GONZALES@CITYOFFULLERTON.COM
Anthony Delgado	CITY OF FULLERTON	(657) 253-0219	ANTHONY.DELGADO@cityoffullerton.com
Robert Beeler	Metro Builders	949-515 4350	estimating@metrobuilders.com
J. Gutierrez	JIG Consultants	714-978-4407	kgutierrez@jigconsultants.com



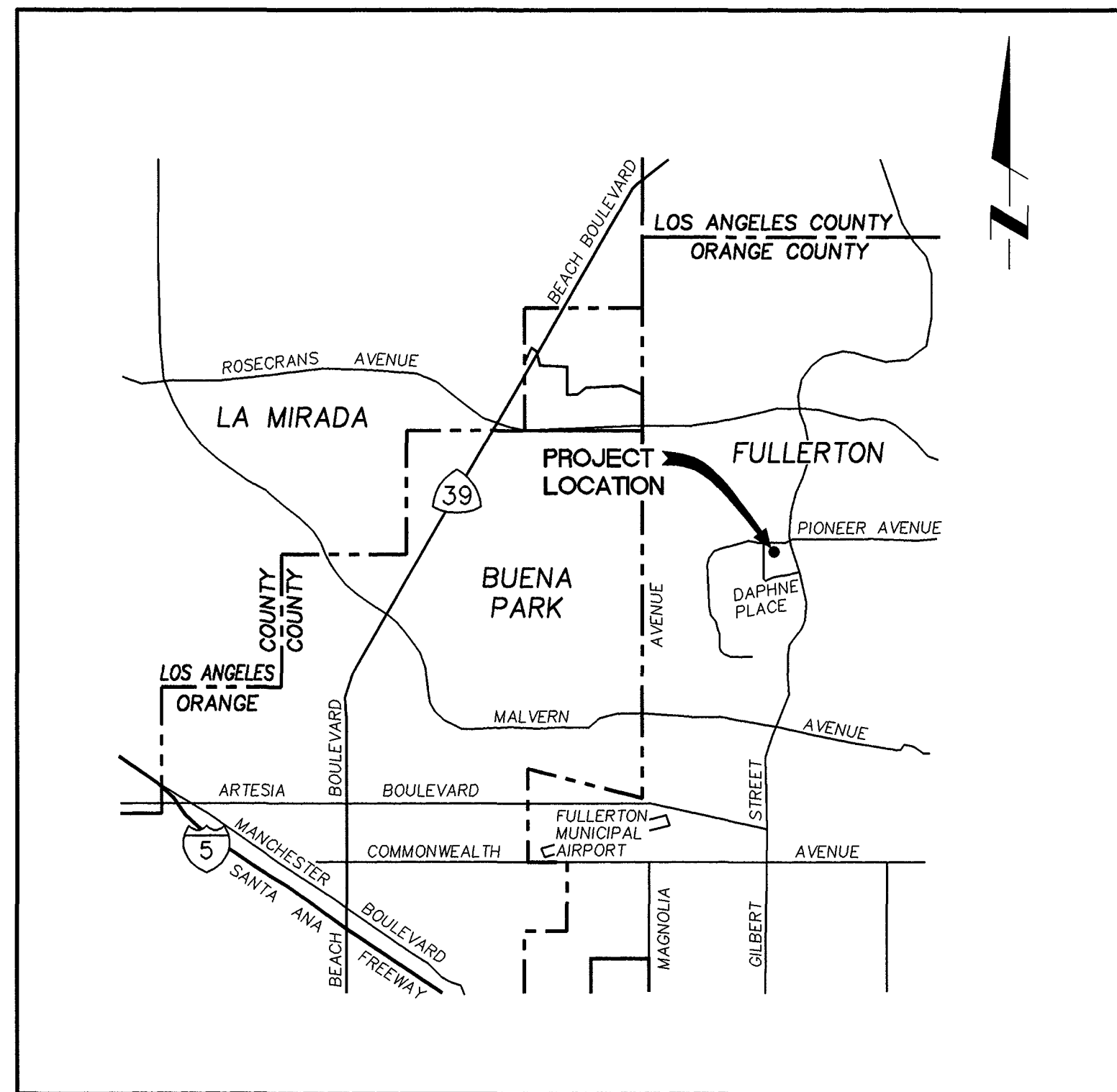
**COYOTE BOOSTER PUMP STATION PUMP CAN REPLACEMENT  
EXHIBIT A**



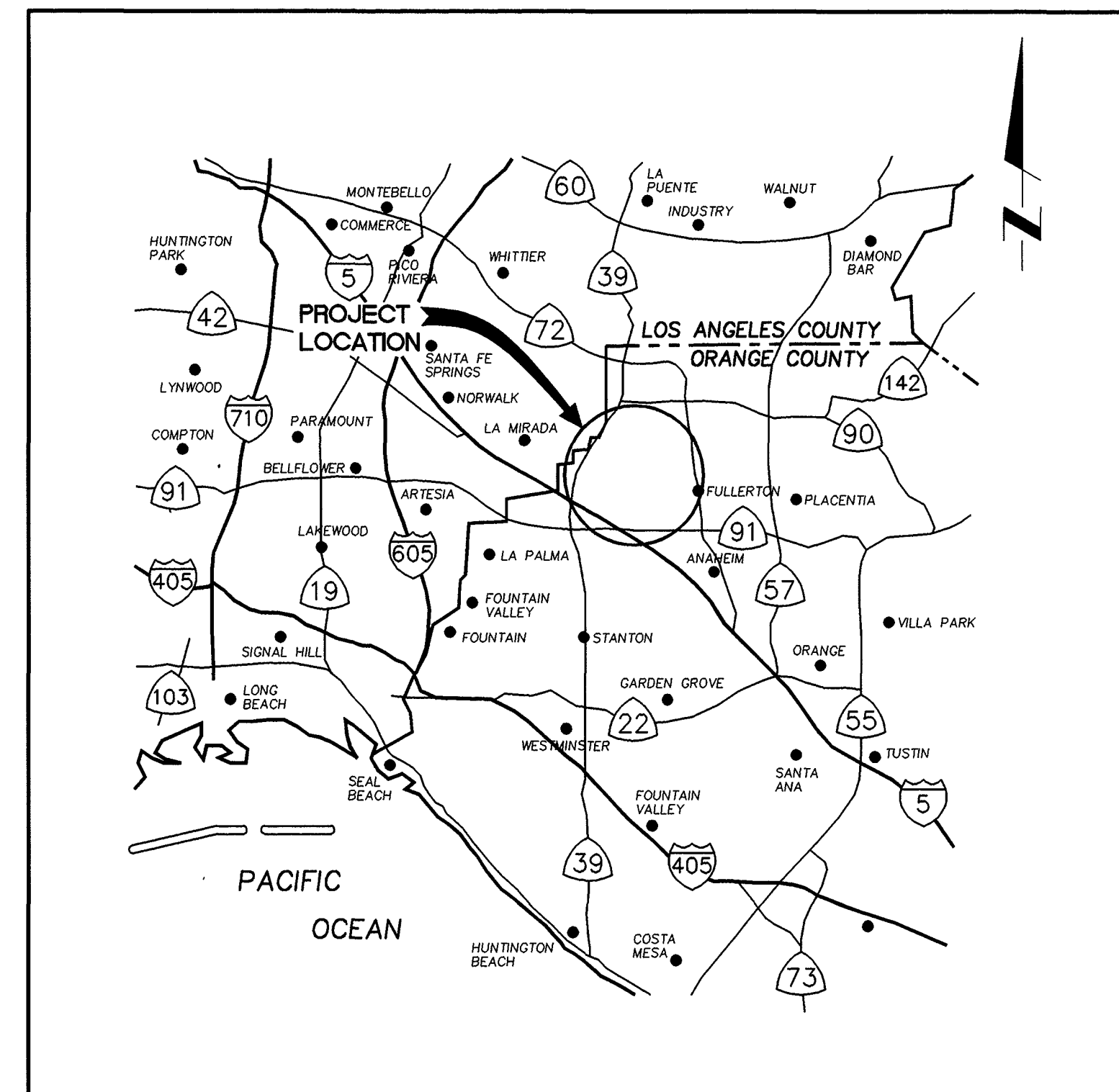
# CITY OF FULLERTON WATER ENGINEERING DIVISION CONSTRUCTION PLANS FOR COYOTE BOOSTER PUMP STATION 1C-2 REPLACEMENT

**GENERAL NOTES:**

1. THE WATER ENGINEERING DIVISION SHALL BE CALLED FOR INSPECTION TWO WORKING DAYS BEFORE START OF WORK. (714) 738-6896.
2. UNDERGROUND SERVICE ALERT MUST BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR TO SUPPLY CONFIRMATION NUMBER TO INSPECTOR EACH TIME THAT HE RECEIVES IT. (800) 422-4133.
3. ALL WORK AS SHOWN ON THESE PLANS SHALL BE IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION, AND THE CITY OF FULLERTON'S WATER UTILITY SPECIFICATIONS, LATEST EDITION.
4. PRIVATE AND PUBLIC UTILITIES, IF SHOWN HEREON, REFLECT AVAILABLE RECORD DATA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, PROTECTING, AND ANY DAMAGE TO ALL UNDERGROUND FACILITIES.
5. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE PROTECTION FOR ALL INSTALLED LINES AND APPURTENANCES, SURVEY WELL TYPE MONUMENTS, AND EXISTING IMPROVEMENTS DURING THE CONSTRUCTION OF THIS PROJECT. ALL DAMAGED OR LOST FACILITIES MUST BE REPLACED IMMEDIATELY.
6. WHEN NO RECORDS ARE AVAILABLE TO LOCATE SEWER LATERALS, THE CONTRACTOR IS TO USE CAUTION WHEN TRENCHING FOR WATER MAINS. WATER LINES SHALL BE INSTALLED PER LATEST WATER AND SEWER SEPARATION REQUIREMENTS OF THE DEPARTMENT OF HEALTH SERVICES (DOHS). THE CITY ENGINEER RESERVES THE RIGHT TO ALTER THE ABOVE CONDITIONS AS REQUIRED DURING CONSTRUCTION.
7. THE CONTRACTOR SHALL REPLACE ANY DAMAGE TO TRAFFIC LOOPS WITHIN FIVE WORKING DAYS AFTER WATER LINE IS INSTALLED. ALL WORK SHALL BE TO THE SATISFACTION OF THE CITY AND BE SOLELY AT THE CONTRACTOR'S EXPENSE.
8. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS FOR EXCAVATION, TRAFFIC CONTROL, ETC., AND HAVE VALID CITY BUSINESS LICENSES PRIOR TO THE START OF CONSTRUCTION. (714) 738-6845.
9. A PRE-CONSTRUCTION CONFERENCE OF REPRESENTATIVES FROM AFFECTED AGENCIES, AND THE CONTRACTOR SHALL BE HELD PRIOR TO STARTING CONSTRUCTION WORK.
10. ALL MATERIAL AND WORK SHOWN ON THIS PLAN SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
11. ALL MAIN-LINE VALVES SHALL BE MAINTAINED SO AS TO BE ACCESSIBLE DURING CONSTRUCTION, AND ALL VALVE STEM TOPS HAVING OVER 48 INCHES MINIMUM COVER WILL REQUIRE AN EXTENSION PER CITY OF FULLERTON STANDARD DRAWING NO. W-651.
12. ALL WATER LINES SHALL BE INSTALLED TO A MINIMUM DEPTH OF 42" BELOW FINISHED SURFACE, UNLESS OTHERWISE SHOWN. THE ENGINEER RESERVES THE RIGHT TO ALTER ABOVE CONDITION AS REQUIRED DURING CONSTRUCTION.
13. THE CITY OF FULLERTON WATER MAINTENANCE SECTION CANNOT GUARANTEE A COMPLETE SHUTDOWN OF EXISTING MAINS BECAUSE OF AGE AND CONDITION OF EXISTING VALVES. THE MAINTENANCE CREW WILL ATTEMPT TO SHUT DOWN MAINS AS COMPLETELY AS POSSIBLE, HOWEVER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND ISOLATION OF CONSTRUCTION FOR TESTING OR ANY OTHER PURPOSES. AFTER ANY SHUTDOWN OF EXISTING FACILITIES, CONTRACTOR IS RESPONSIBLE FOR GETTING THE AIR OUT OF THE WATER LINE PER APPROVED METHOD REQUIRED BY THE ENGINEER.
14. THE CONTRACTOR AGREES 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, AND THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.



**LOCATION MAP**  
NO SCALE



**VICINITY MAP**  
NO SCALE

**GENERAL NOTES (CONTD)**

15. THE CONTRACTOR IS REQUIRED TO POTHOLE AT TIE-IN POINTS, TERMINATION POINTS, SEWER AND STORM DRAIN, AND AT ANY OTHER POINTS OF POTENTIAL CONFLICTS WITH UNDERGROUND FACILITIES BEFORE STARTING ANY CONSTRUCTION.
16. THE INSPECTION OF THE WORK AND MATERIALS BY THE ENGINEER OR HIS/HER REPRESENTATIVE DOES NOT DENOTE ACCEPTANCE NOR RELIEVE THE CONTRACTOR OF HIS/HER RESPONSIBILITIES TO COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. THIS RESPONSIBILITY SHALL APPLY TO ALL WORK PERFORMED BY THE CONTRACTOR.
17. MAINTAINING WATER SERVICE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. METHOD OF PROVIDING TEMPORARY SERVICE MUST BE APPROVED BY THE ENGINEER. THE WATER SHALL BE SAFE FOR DRINKING IN ACCORDANCE WITH PUBLIC HEALTH SERVICE DRINKING WATER STANDARDS.
18. THE CONTRACTOR SHALL NOT OPERATE ANY EXISTING WATER VALVES. WATER VALVES WILL BE OPERATED BY THE CITY OF FULLERTON EMPLOYEES UPON 24 HOURS' NOTICE. (714) 738-6896.

**LIST OF DRAWINGS**

SHEET NO.	TITLE
1.	TITLE SHEET
2.	SITE AND GRADING PLANS
3.	METAL BUILDING PLAN & EXTERIOR ELEVATIONS
4.	MECHANICAL PLAN
5.	MECHANICAL SECTIONS
6.	SINGLE LINE DIAGRAM, MCC ELEVATION, PLAN & LEGEND
7.	POWER AND LIGHTING PLANS & NOTES
8.	CONTROL DIAGRAM

AS BUILT

**PERMIT NOTES:**

A PERMIT SHALL BE OBTAINED FROM THE CITY ENGINEERING DEPARTMENT BY THE CONTRACTOR, PRIOR TO STARTING CONSTRUCTION.

**NOTICE TO CONTRACTOR:**

CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND SHALL REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO COMMENCEMENT OF WORK.



<p style="font-size: 8pt;">PREPARED BY <b>Sidani &amp; Associates</b> consulting engineers 3184-K Airway Ave Costa Mesa, CA 92626 (714) 966-1416</p>	<p style="font-size: 8pt;">THESE PLANS WERE PREPARED UNDER THE SUPERVISION OF <i>T.S. Sidani</i> DATE <u>10/10/97</u> REGISTERED CIVIL ENGINEER NO 19243</p>
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REVISION			
NO	INITIAL	REVISIONS	APPROVED BY DATE

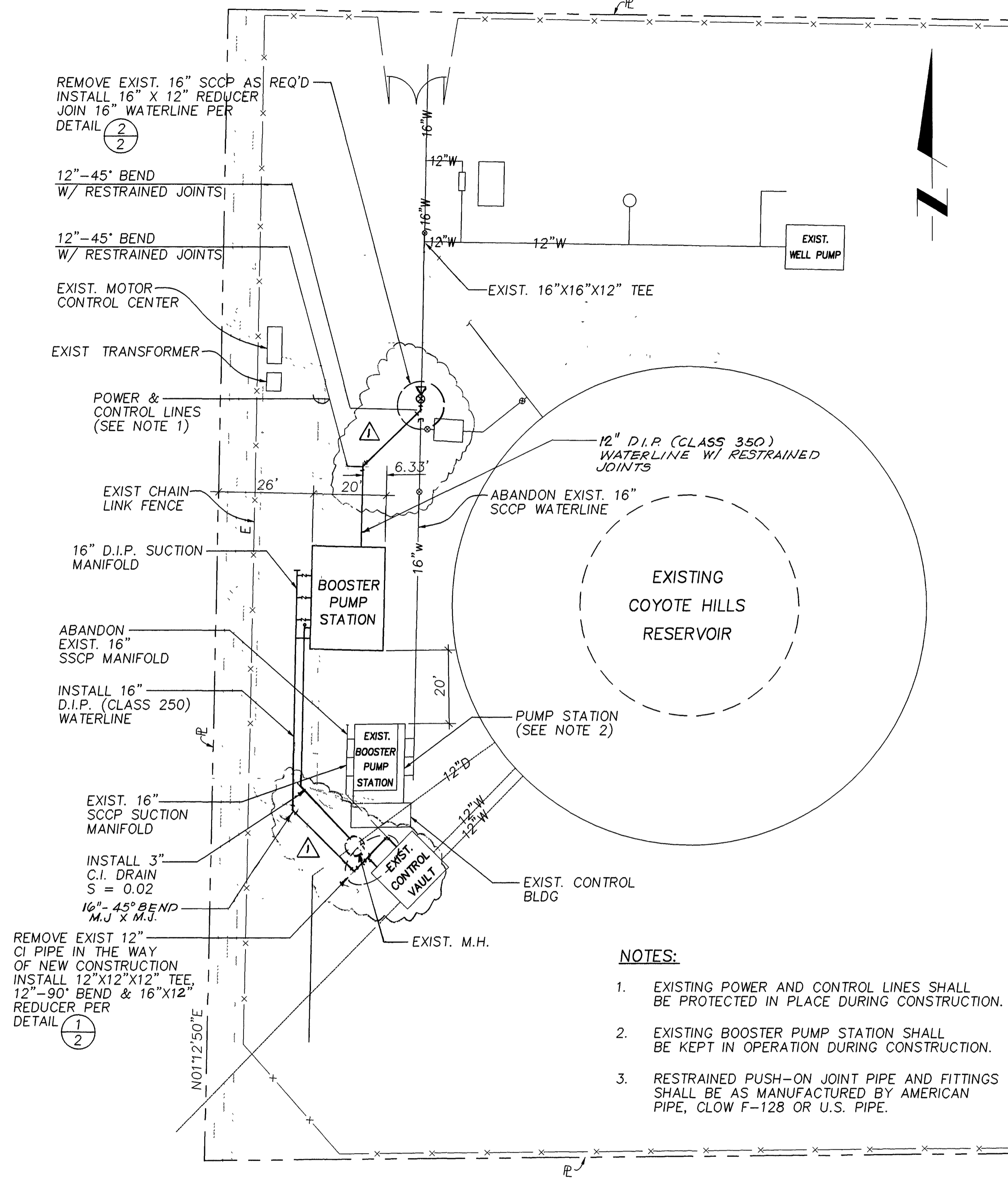
REFERENCES			
FIELD BOOK	PAGES	BENCH MARK NO 19-35 ELEVATION 270.24	FOR STANDARD DETAIL SEE

<p style="font-size: 8pt;">CORROSION INDEX</p> <p style="font-size: 8pt;">PRESSURE ZONE</p> <p style="font-size: 8pt;">WATER BOOK NUMBER 39</p>	<p style="font-size: 8pt;">FOR CITY USE ONLY</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">CHECKED ENGINEERING</td> <td style="width: 50%;">INITIAL DATE</td> </tr> <tr> <td style="width: 50%;">WATER MAINT R/W</td> <td style="width: 50%;">M.R.F. 10-23-97</td> </tr> <tr> <td style="width: 50%;">FINAL CHECK AS CONST</td> <td style="width: 50%;"> </td> </tr> </table>	CHECKED ENGINEERING	INITIAL DATE	WATER MAINT R/W	M.R.F. 10-23-97	FINAL CHECK AS CONST	
CHECKED ENGINEERING	INITIAL DATE						
WATER MAINT R/W	M.R.F. 10-23-97						
FINAL CHECK AS CONST							

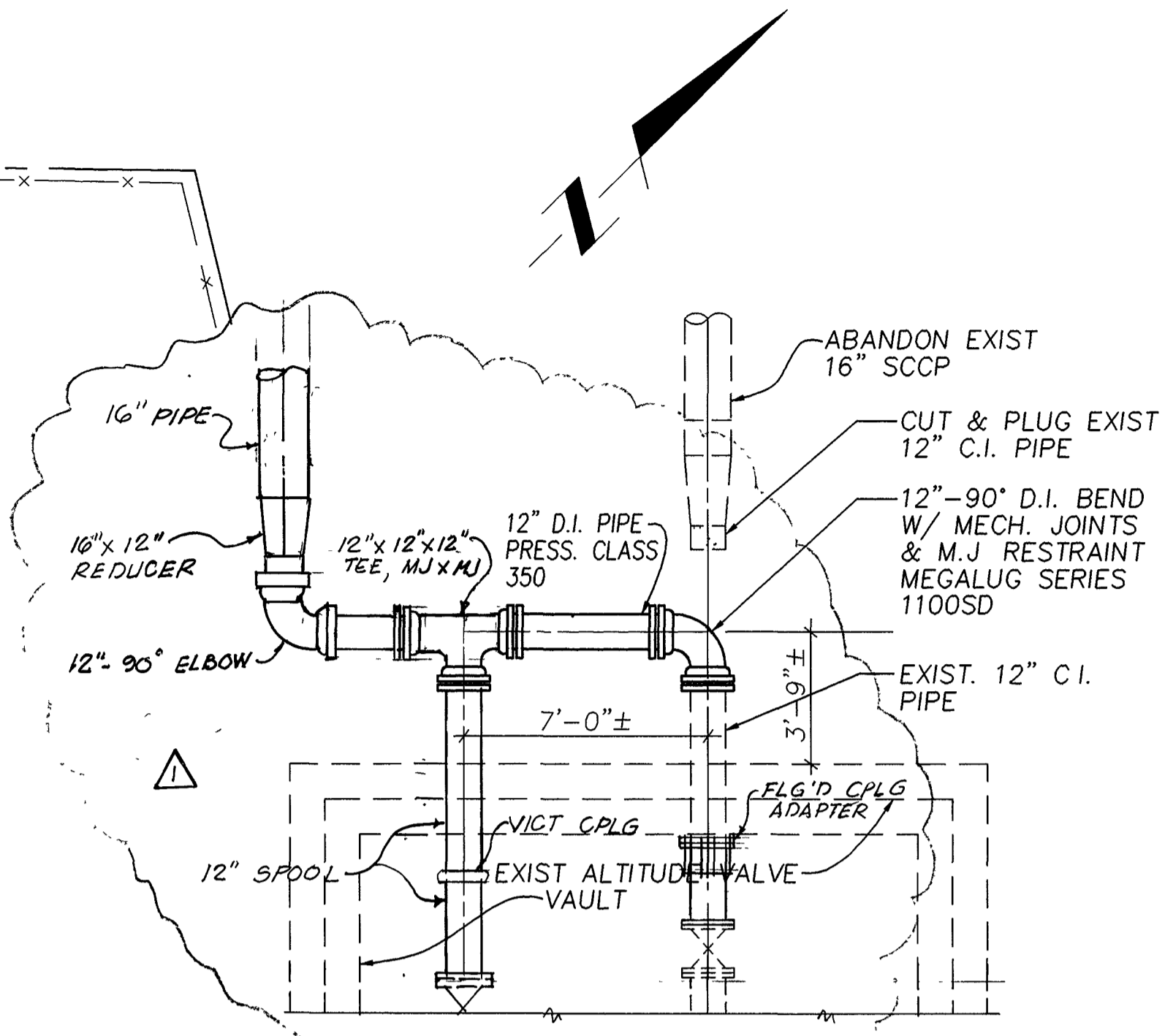
CITY OF FULLERTON ENGINEERING DEPARTMENT WATER ENGINEERING DIVISION	
COYOTE BOOSTER PUMP STATION 1C-2 REPLACEMENT TITLE SHEET	
<p style="font-size: 8pt;">APPROVED <i>T.S. Sidani</i> 10/23/97 WATER SYSTEM ENGINEERING DATE</p>	<p style="font-size: 8pt;">APPROVED <i>W.E. Hudson</i> 10/23/97 DIRECTOR OF ENGINEERING DATE</p>
SCALE: AS SHOWN	DWG NO. W.D. 2179 SHEET 1 OF 8 SHEETS

JOB NO. 209-001 10/17/97

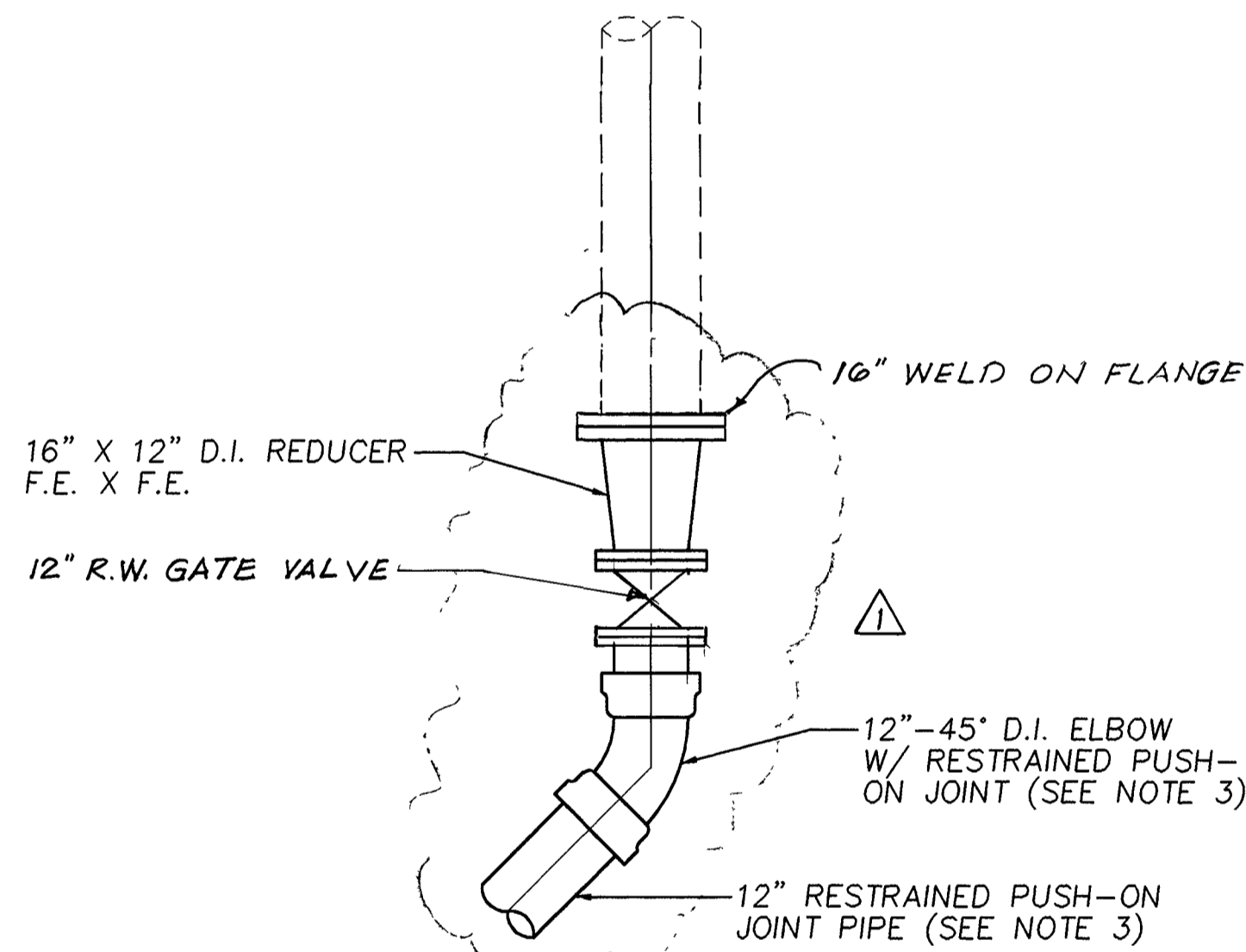
PIONEER AVENUE



**SITE PLAN**  
1" = 20'



**16" SUCTION PIPE CONNECTION**  
1/4" = 1'-0"



**12" PIPE CONNECTION**  
NO SCALE

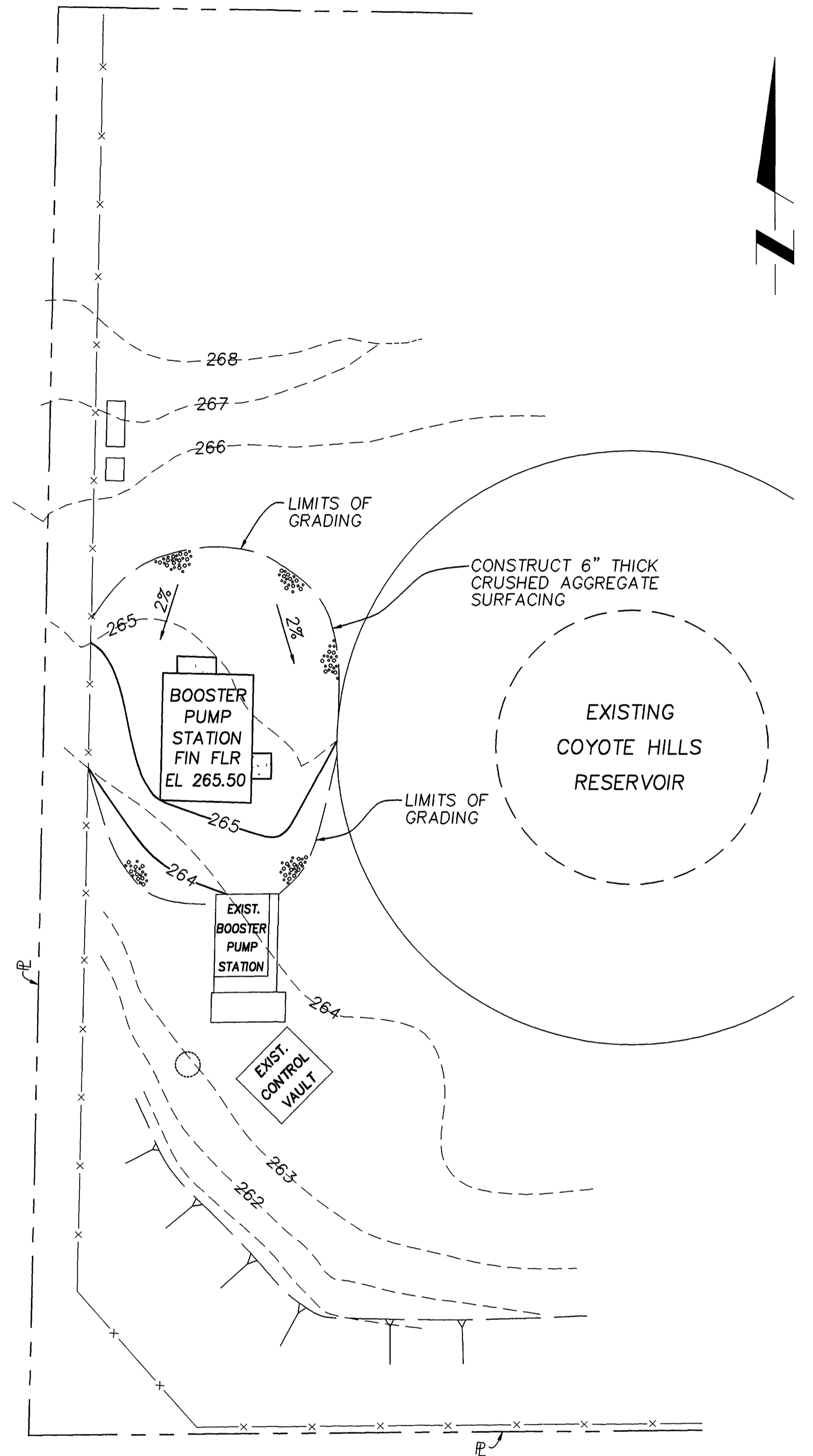
**NOTES:**

- EXISTING POWER AND CONTROL LINES SHALL BE PROTECTED IN PLACE DURING CONSTRUCTION.
- EXISTING BOOSTER PUMP STATION SHALL BE KEPT IN OPERATION DURING CONSTRUCTION.
- RESTRAINED PUSH-ON JOINT PIPE AND FITTINGS SHALL BE AS MANUFACTURED BY AMERICAN PIPE, CLOW F-128 OR U.S. PIPE.



**AS BUILT**

**GRADING PLAN**  
1" = 20'



REVISION			
NO	INITIAL	REVISIONS	DATE
1	AS	BUILT	12/2/98

REFERENCES			
FIELD BOOK	PAGES	BENCH MARK NO	FOR STANDARD DETAIL SEE
		19-35	
		270 24	
		P K NAIL IN LEAD, SOUTH CURB OF PIONEER RD NEAR THE NORTHWEST CORNER OF CITY RESERVOIR SITE, NEAR NORTHEAST CORNER OF CONC SLAB FOR TELEPHONE PEDESTAL	REFERENCE DRAWING

CORROSION INDEX	
FOR CITY USE ONLY	DATE
CHECKED ENGINEERING	10/23/97
WATER MAINT	
R/W	
FINAL CHECK AS CONST	

**CITY OF FULLERTON**  
ENGINEERING DEPARTMENT  
WATER ENGINEERING DIVISION

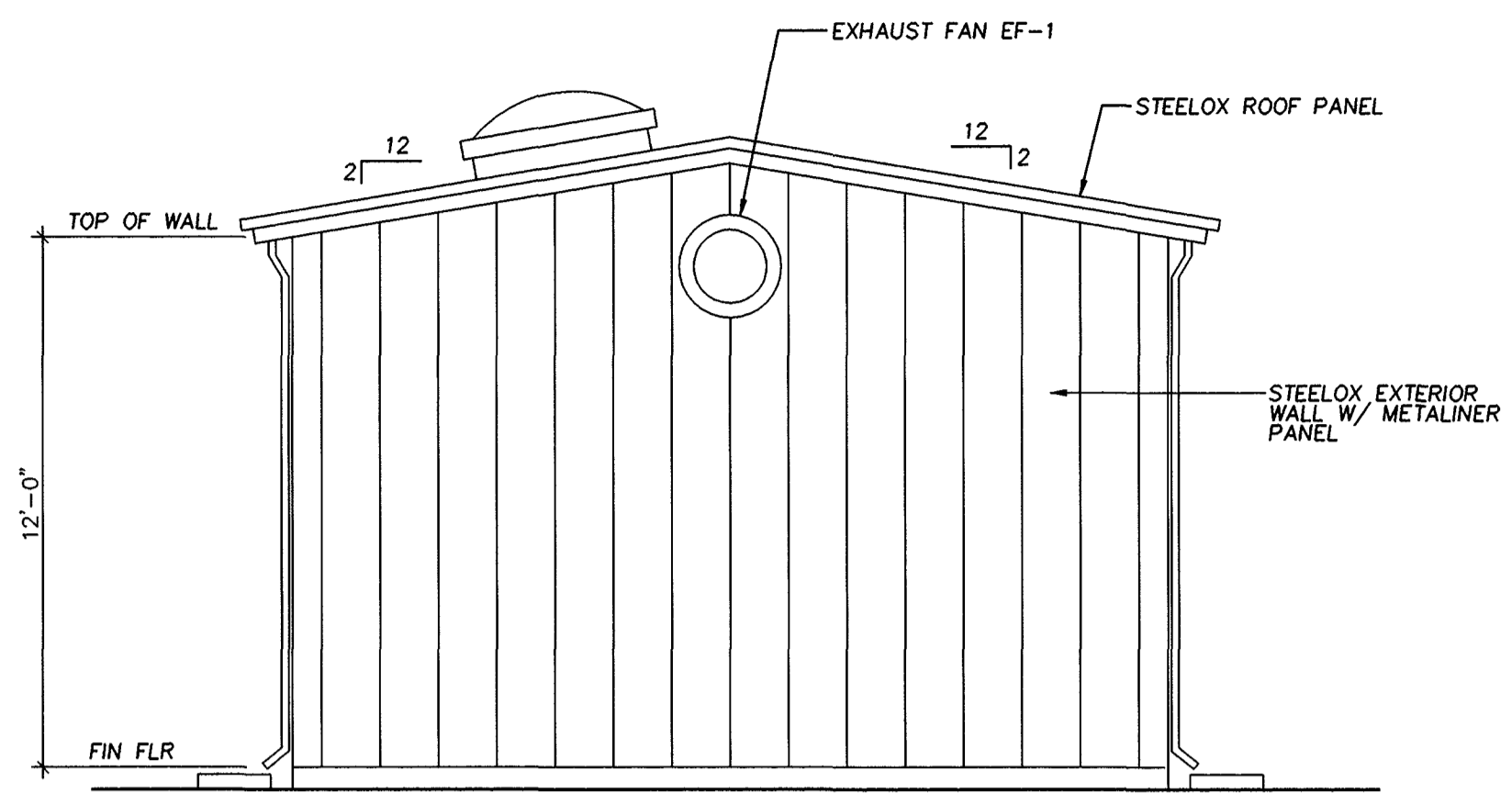
**COYOTE BOOSTER PUMP STATION 1C-2 REPLACEMENT SITE AND GRADING PLANS**

APPROVED: *[Signature]* 10/23/97  
WATER SYSTEM ENGINEERING  
DATE: 10/23/97  
DIRECTOR OF ENGINEERING

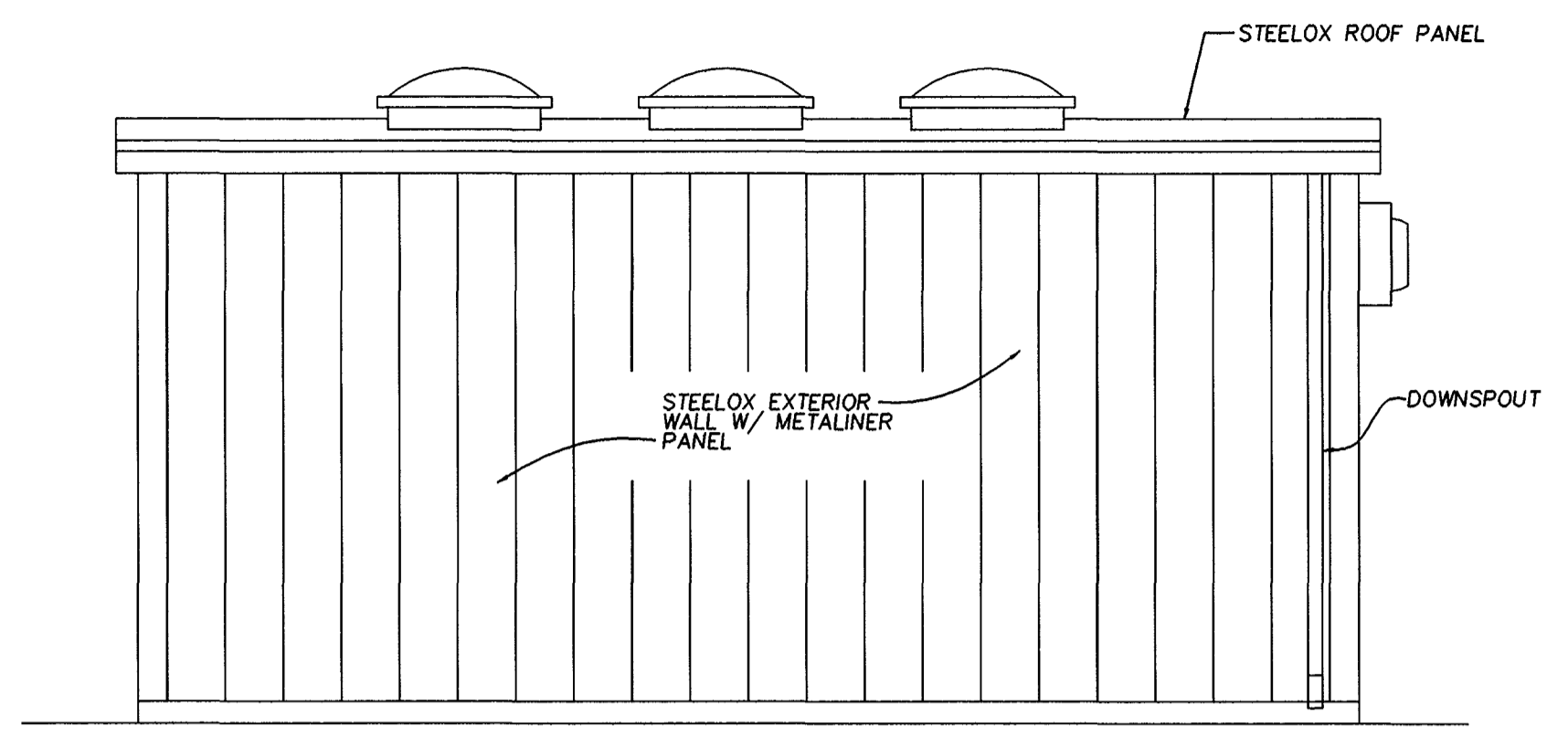
SCALE: AS SHOWN  
DWG NO: W.D. 2179  
SHEET 2 OF 8 SHEETS

PREPARED BY: **Sidawi & Associates**  
consulting engineers  
3184-K Airway Ave  
Costa Mesa, CA 92626  
(714) 966-1416

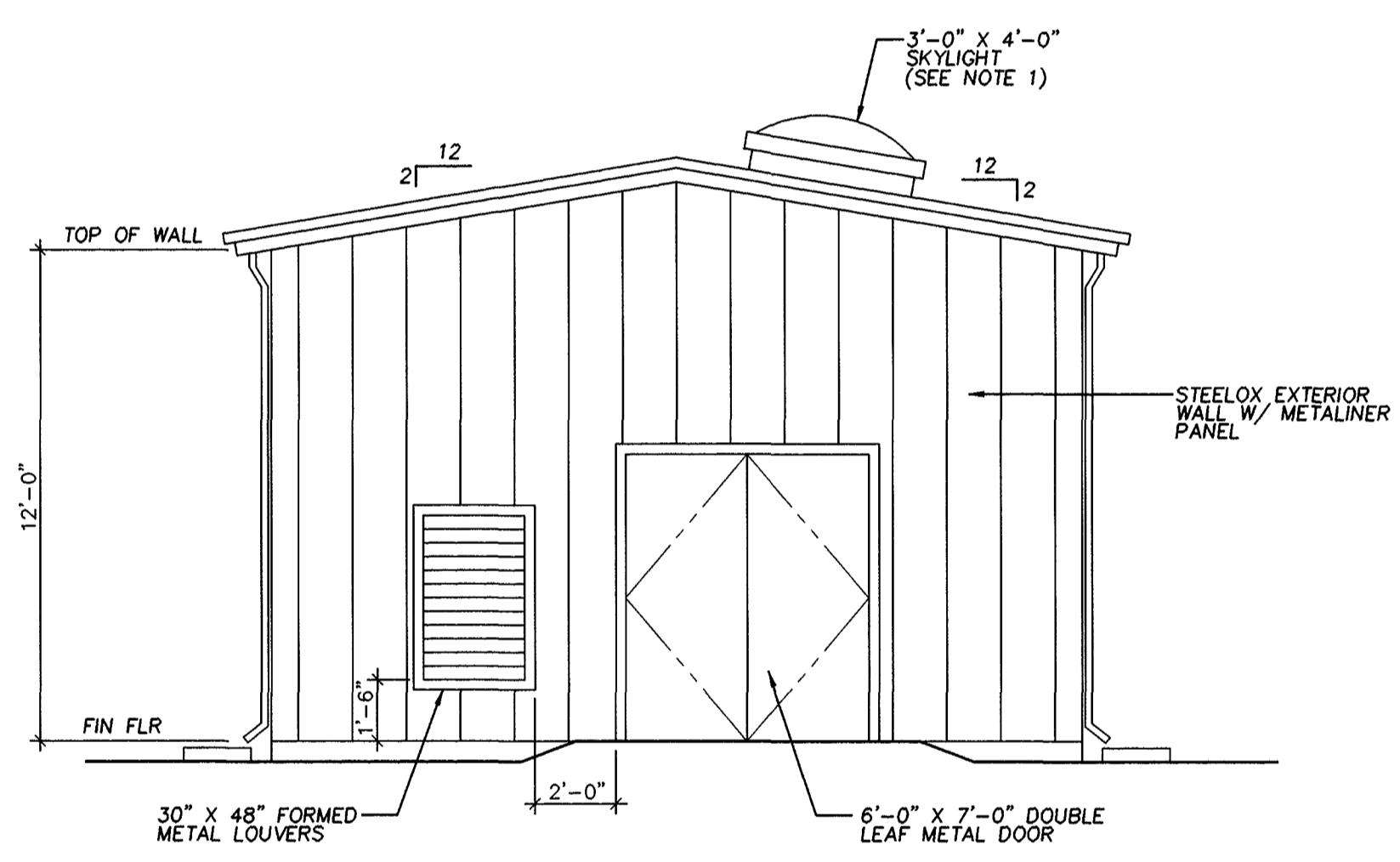
THESE PLANS WERE PREPARED UNDER THE SUPERVISION OF: *[Signature]*  
DATE: 10/10/97, REGISTERED CIVIL ENGINEER NO 19243



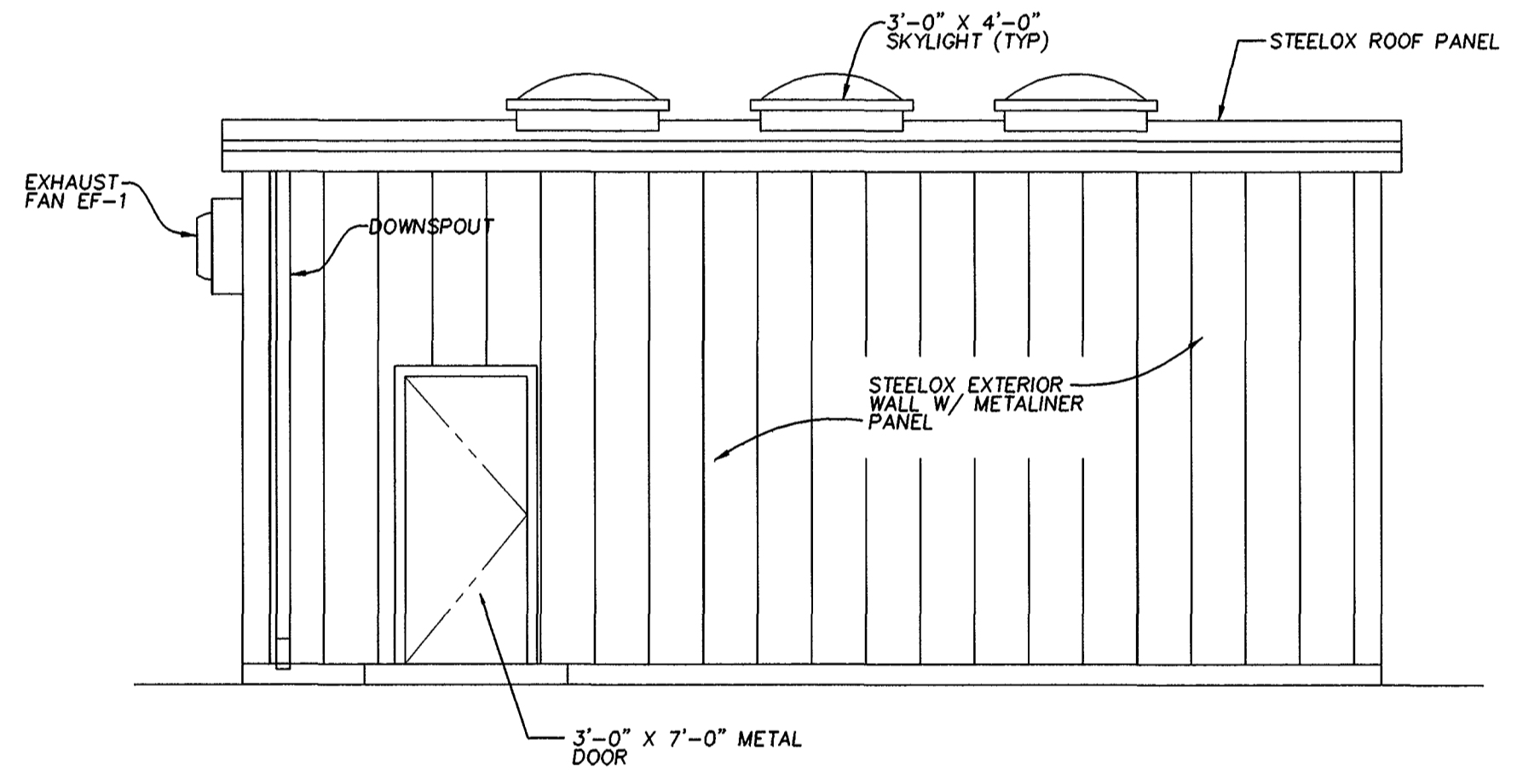
**SOUTH ELEVATION**  
1/4"=1'-0"



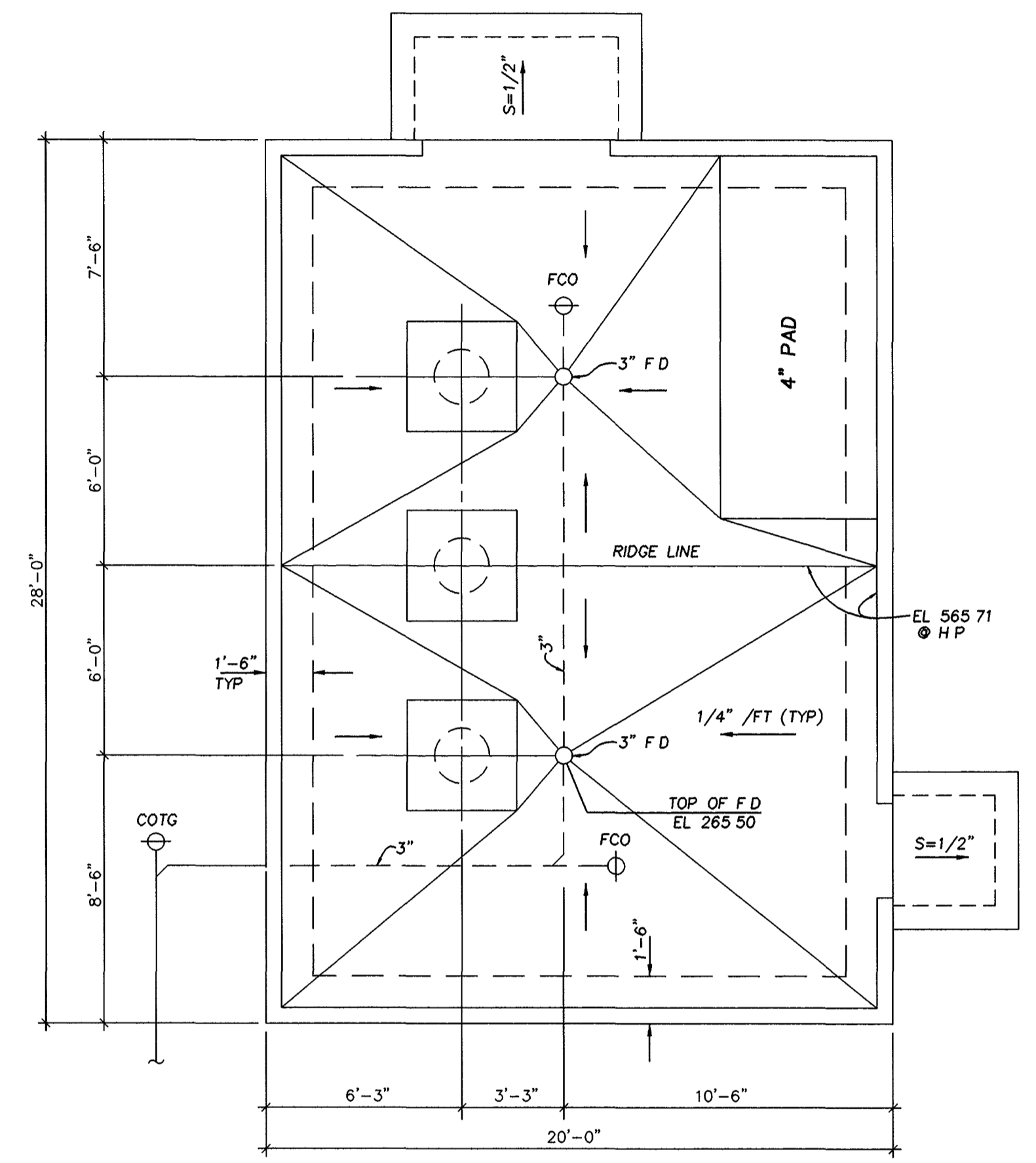
**WEST ELEVATION**  
1/4"=1'-0"



**NORTH ELEVATION**  
1/4"=1'-0"



**EAST ELEVATION**  
1/4"=1'-0"



**FLOOR & FOUNDATION PLAN**  
1/4"=1'-0"

**NOTE:**  
1. COORDINATE WITH MECHANICAL EQUIPMENT CONTRACTOR FOR EXACT LOCATION OF ROOF OPENINGS.

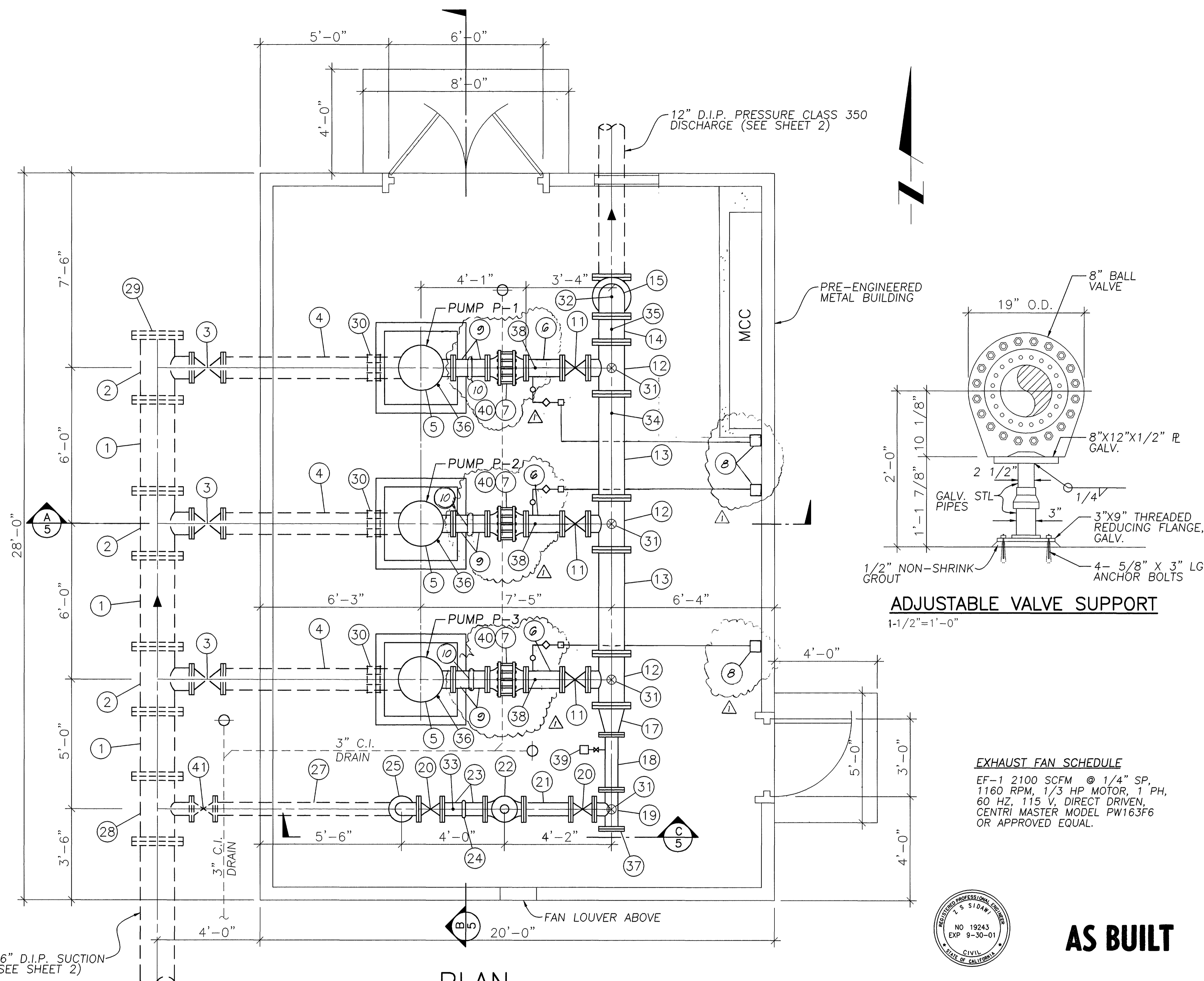


**AS BUILT**

PREPARED BY <b>Sidawi &amp; Associates</b> consulting engineers 3184-K Airway Ave Costa Mesa, CA 92626 (714) 966-1416		THESE PLANS WERE PREPARED UNDER THE SUPERVISION OF DATE <u>10/10/97</u> REGISTERED CIVIL ENGINEER NO 19243		DRAWN CHECKED	INITIAL DATE	CITY OF FULLERTON ENGINEERING DEPARTMENT WATER ENGINEERING DIVISION	
<b>REVISION</b> NO INITIAL REVISIONS APPROVED BY DATE		<b>REFERENCES</b> FIELD BOOK PAGES BENCH MARK SEE SHEET 1 FOR STANDARD DETAIL SEE REFERENCE DRAWING		CORROSION INDEX PRESSURE ZONE WATER BOOK NUMBER 39	FOR CITY USE ONLY INITIAL DATE CHECKED <u>M.R.F. 10.23.97</u> WATER MAINT R/W FINAL CHECK AS CONST		COYOTE BOOSTER PUMP STATION 1C-2 REPLACEMENT METAL BUILDING PLAN & EXTERIOR ELEVATIONS APPROVED <u>R.R. Al</u> 10/23/97 DATE WATER SYSTEM ENGINEERING DIRECTOR OF ENGINEERING APPROVED <u>Robert E. Hanson</u> 10/23/97 DATE SCALE AS SHOWN DWG NO W.D. 2179 SHEET 3 OF 8 SHEETS
APPROVED <u>R.R. Al</u> 10/23/97 DATE WATER SYSTEM ENGINEERING		APPROVED <u>Robert E. Hanson</u> 10/23/97 DATE DIRECTOR OF ENGINEERING		SHEET 3 OF 8 SHEETS			

JOB NO 209-001 10/7/97



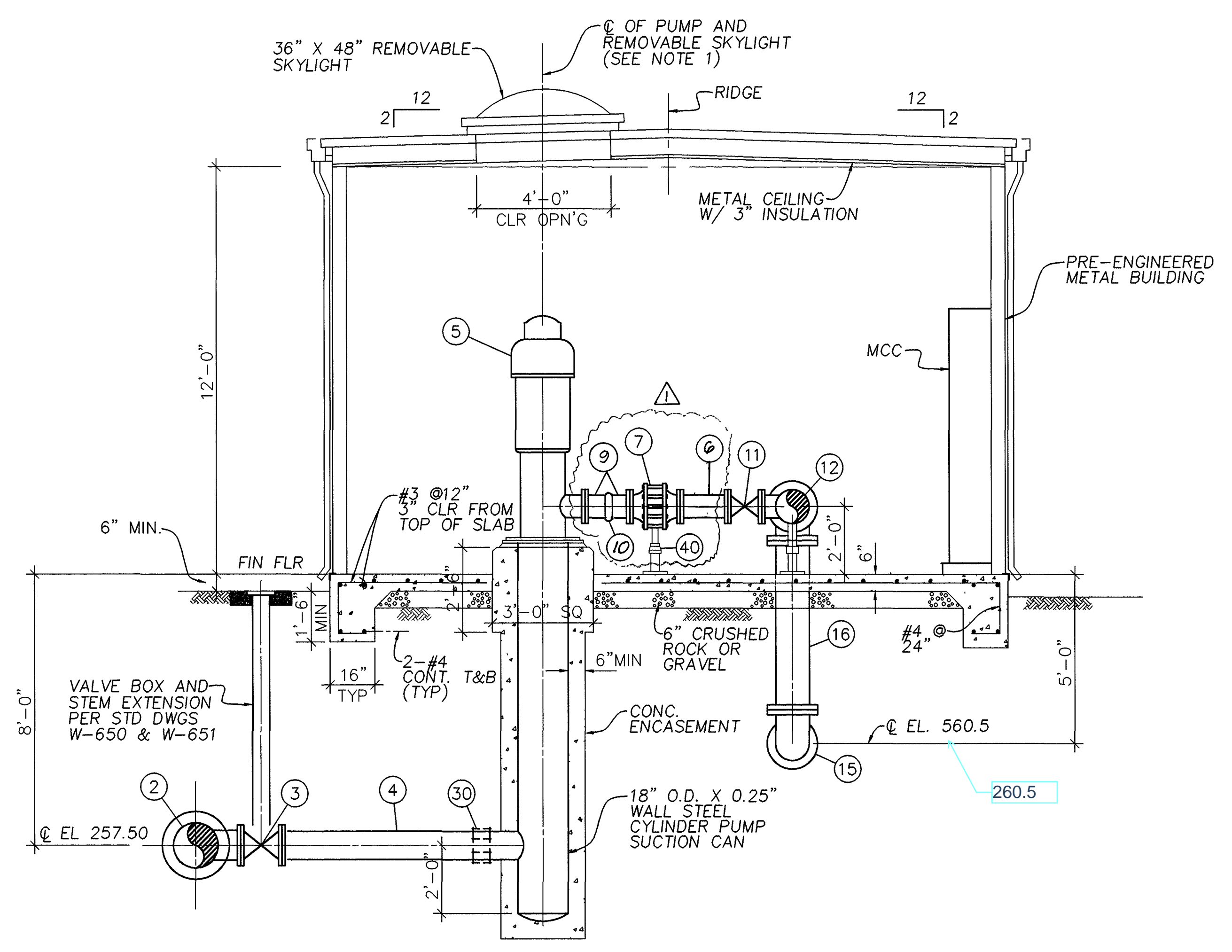


LIST OF MATERIALS		
ITEM	DESCRIPTION	QUANTITY
①	16" D.I.P., PRESSURE CLASS 250, F.E. X F.E.	3
②	16" X 16" X 10" TEE, F.E. X F.E.	3
③	10" R.W. GATE VALVE, F.E. X F.E. PER STD. NO. W-650 & W-651	3
④	10" D.I.P., PRESSURE CLASS 350, F.E. X P.E.	3
⑤	VERTICAL TURBINE PUMP, 900 GPM @ 180' TDH W/ 60 HP MOTOR	3
⑥	8" D.I.P. SPOOL	3
⑦	8" PRATT BALL VALVE W/ PRATT MDT WITH DURA-CYL POWER CYLINDER OPERATOR	3
⑧	PRATT BALL VALVE CONTROL SYSTEM (SEE SHEET 5)	3
⑨	8" D.I.P. SPOOL, F.E. X V.E.	6
⑩	8" VICTAULIC COUPLING	3
⑪	8" GATE VALVE, OS & Y	3
⑫	12" X 12" X 8" TEE, F.E. X F.E.	3
⑬	12" D.I.P., PRESSURE CLASS 350, F.E. X F.E.	2
⑭	12" D.I.P. SPOOL, F.E. X F.E.	1
⑮	12" - 90° ELBOW, FLG'D	2
⑯	12" D.I.P., PRESSURE CLASS 350 F.E. X F.E.	1
⑰	12" X 6" REDUCER, F.E. X F.E.	1
⑱	6" D.I.P. SPOOL	1
⑲	6" X 6" X 6" TEE	1
⑳	6" GATE VALVE, OS & Y	2
㉑	6" D.I.P. SPOOL, F.E. X F.E.	1
㉒	6" PRESSURE RELIEF VALVE CLA-VAL MODEL 50G-01ABKC, CLASS 150	1
㉓	6" D.I.P. SPOOL, F.E. X V.E.	2
㉔	6" VICTAULIC COUPLING	1
㉕	6" - 90° ELBOW, FLG'D	2
㉖	6" D.I.P., PRESSURE CLASS 350, F.E. X F.E.	1
㉗	6" D.I.P., PRESSURE CLASS 350	1
㉘	16" X 16" X 6" TEE, F.E. X F.E.	1
㉙	16" BLIND FLANGE	1
㉚	10" FLEXIBLE COUPLING	3
㉛	ADJUSTABLE PIPE SUPPORT GRINNELL FIG. 264	4
㉜	2" COMBINATION AIR VALVE VAL-MATIC MODEL 202C	1
㉝	1" COMBINATION AIR VALVE VAL-MATIC MODEL 201C	1
㉞	PRESSURE GAUGE, ASHCROFT (0-150 PSI)	1
㉟	CORP. STOP FOR PITOT TUBE INSERT	1
㊱	1" AIR & VACUUM VALVE VAL-MATIC MODEL 101	3
㊲	6" BLIND FLANGE	1
㊳	PRESSURE SWITCH, MERCROID MODEL DAW-33-153 SPDT (5-150 PSI) WITH 1/2-INCH SS AMETEK TYPE SG, OIL FILLED DIAPHRAGM SEAL, SEE SHEET 5 FOR DETAIL	3
㊴	HIGH PRESSURE TRANSMITTER BRISTOL MODEL 2508-15B, 0-300 PSI	3
㊵	ADJUSTABLE VALVE SUPPORT PER DETAIL THIS SHEET	3
㊶	6" RW GATE VALVE, F.E. X F.E. PER STD PLAN NO. W-650 & W-651	1

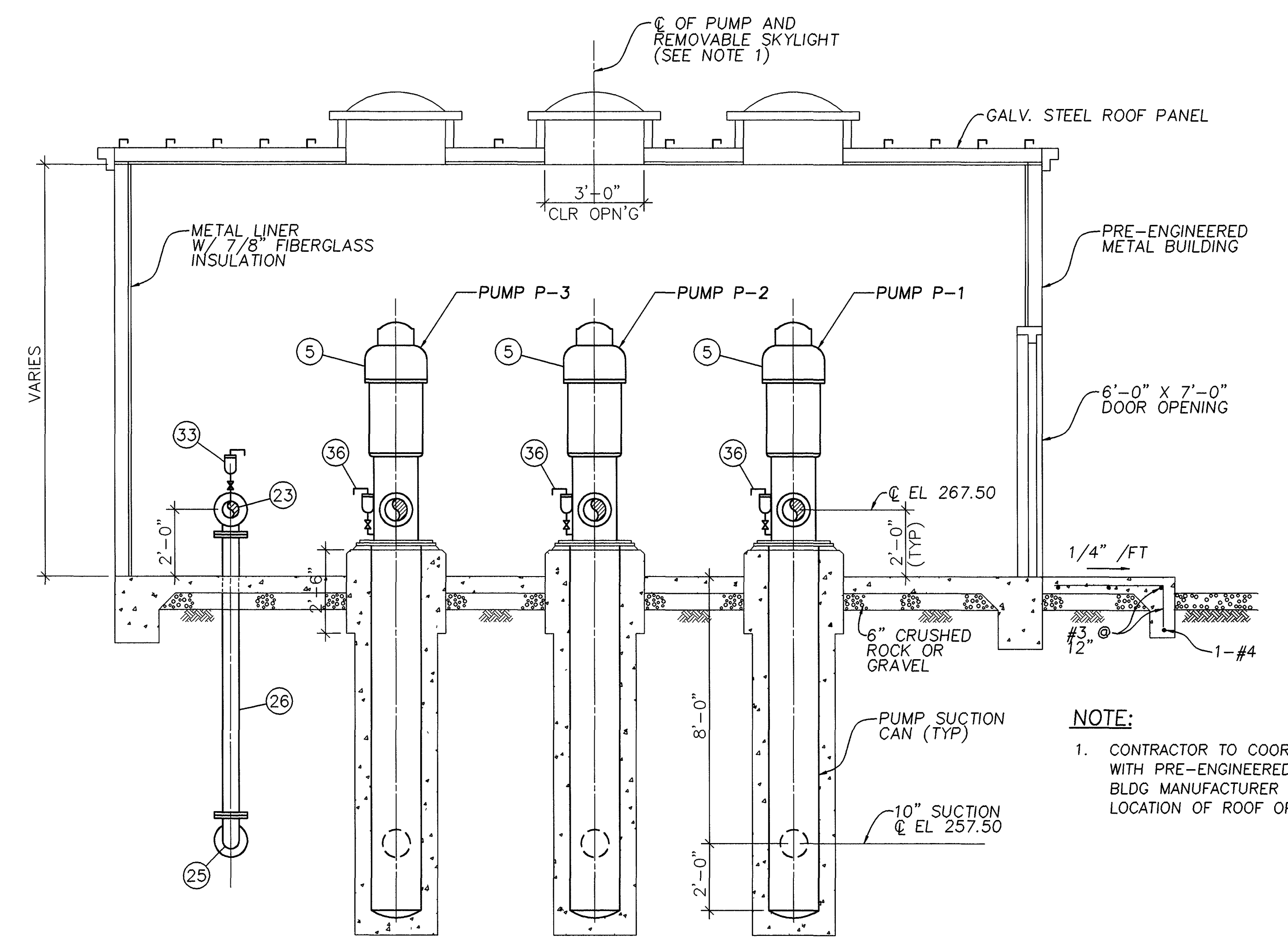


<b>REVISION</b> NO INITIAL REVISIONS APPROVED BY DATE ① "AS-BUILT" 12/2/98		<b>REFERENCES</b> FIELD BOOK PAGES BENCH MARK SEE SHEET 1 FOR STANDARD DETAIL SEE REFERENCE DRAWING				<b>CORROSION INDEX</b> PRESSURE ZONE WATER BOOK NUMBER 39		FOR CITY USE ONLY INITIAL DATE CHECKED MIEF 10.23.97 ENGINEERING WATER MAINT R/W FINAL CHECK AS CONST		<b>CITY OF FULLERTON</b> <b>ENGINEERING DEPARTMENT</b> <b>WATER ENGINEERING DIVISION</b> <b>COYOTE BOOSTER PUMP STATION 1C-2 REPLACEMENT MECHANICAL PLAN</b> APPROVED Robert E. Hudson 10/23/97 DIRECTOR OF ENGINEERING DATE SCALE AS SHOWN DWG NO W.D. 2179 SHEET 4 OF 8 SHEETS	
PREPARED BY <b>Sidawi &amp; Associates</b> consulting engineers 3184-R Airway Ave Costa Mesa, CA 92626 (714) 986-1416		THESE PLANS WERE PREPARED UNDER THE SUPERVISION OF L.S. Sidawi DATE 10/10/97 REGISTERED CIVIL ENGINEER NO 19243				APPROVED Robert E. Hudson 10/23/97 DIRECTOR OF ENGINEERING DATE		JOB NO 209-001 10/7/97			





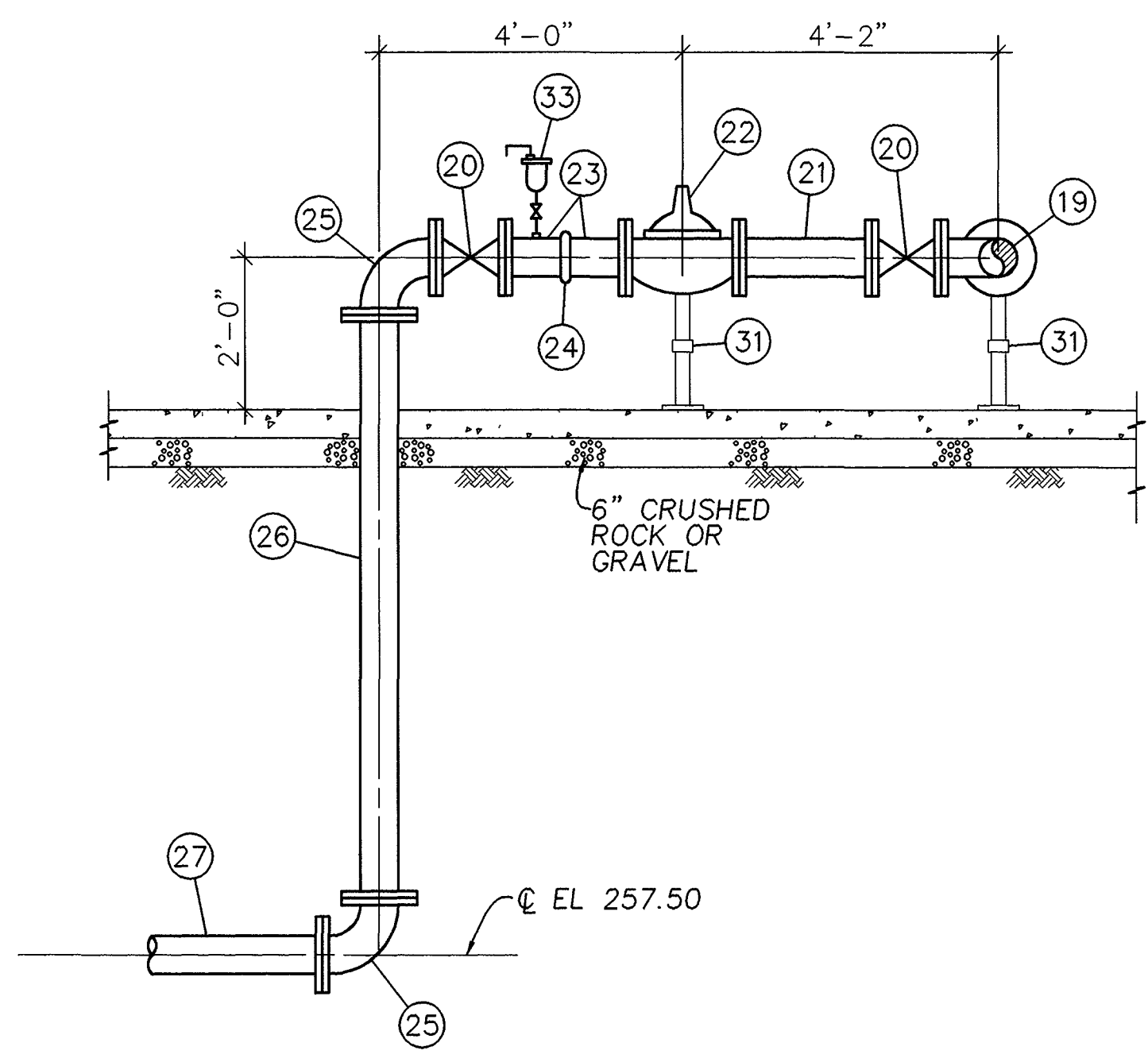
SECTION A  
3/8"=1'-0"



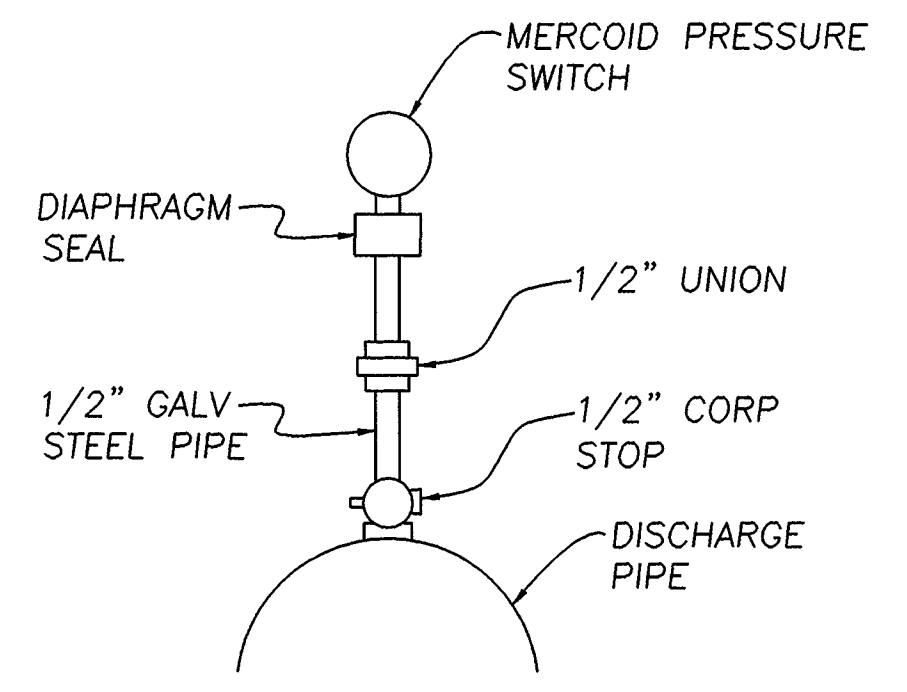
SECTION B  
3/8"=1'-0"

NOTE:  
1. CONTRACTOR TO COORDINATE WITH PRE-ENGINEERED METAL BLDG MANUFACTURER FOR EXACT LOCATION OF ROOF OPENINGS.

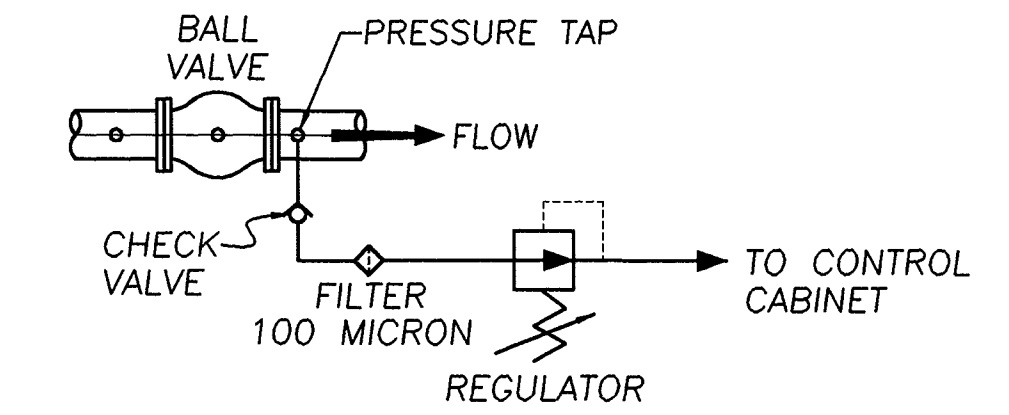
LIST OF MATERIALS		
ITEM	DESCRIPTION	QUANTITY
2	16" X 16" X 10" TEE, F.E. X F.E.	3
3	10" R.W. GATE VALVE, F.E. X F.E. PER STD. NO. W-650 & W-651	3
4	10" D.I.P., PRESSURE CLASS 350, F.E. X P.E.	3
5	VERTICAL TURBINE PUMP, 900 GPM @ 180' TDH W/ 60 HP MOTOR	3
6	8" D.I.P. SPOOL	3
7	8" PRATT BALL VALVE W/ PRATT MDT WITH DURA-CYL POWER CYLINDER OPERATOR	3
9	8" D.I.P. SPOOL, F.E. X V.E.	6
10	8" VICTAULIC COUPLING	3
11	8" GATE VALVE, OS & Y	3
12	12" X 12" X 8" TEE, F.E. X F.E.	3
15	12" - 90° ELBOW, FLG'D	2
16	12" D.I.P., PRESSURE CLASS 350 F.E. X F.E.	1
19	6" X 6" X 6" TEE	1
20	6" GATE VALVE, OS & Y	2
21	6" D.I.P. SPOOL, F.E. X F.E.	1
22	6" PRESSURE RELIEF VALVE CLA-VAL MODEL 50G-01ABKC, CLASS 150	1
23	6" D.I.P. SPOOL, F.E. X V.E.	2
24	6" VICTAULIC COUPLING	1
25	6" - 90° ELBOW, FLG'D	2
26	6" D.I.P., PRESSURE CLASS 350, F.E. X F.E.	1
27	6" D.I.P., PRESSURE CLASS 350	1
33	1" COMBINATION AIR VALVE VAL-MATIC MODEL 201C	1
39	HIGH PRESSURE TRANSMITTER BRISTOL MODEL 2508-15B, 0-300 PSI	3
40	ADJUSTABLE VALVE SUPPORT PER DETAIL SHEET 4	3



SECTION C  
1/2"=1'-0"



PRESSURE SWITCH DETAIL 1  
NO SCALE

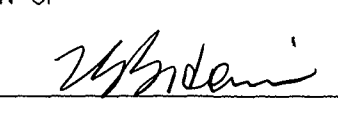


TAP ARRANGEMENT FOR CYLINDER OPERATOR 2  
NO SCALE

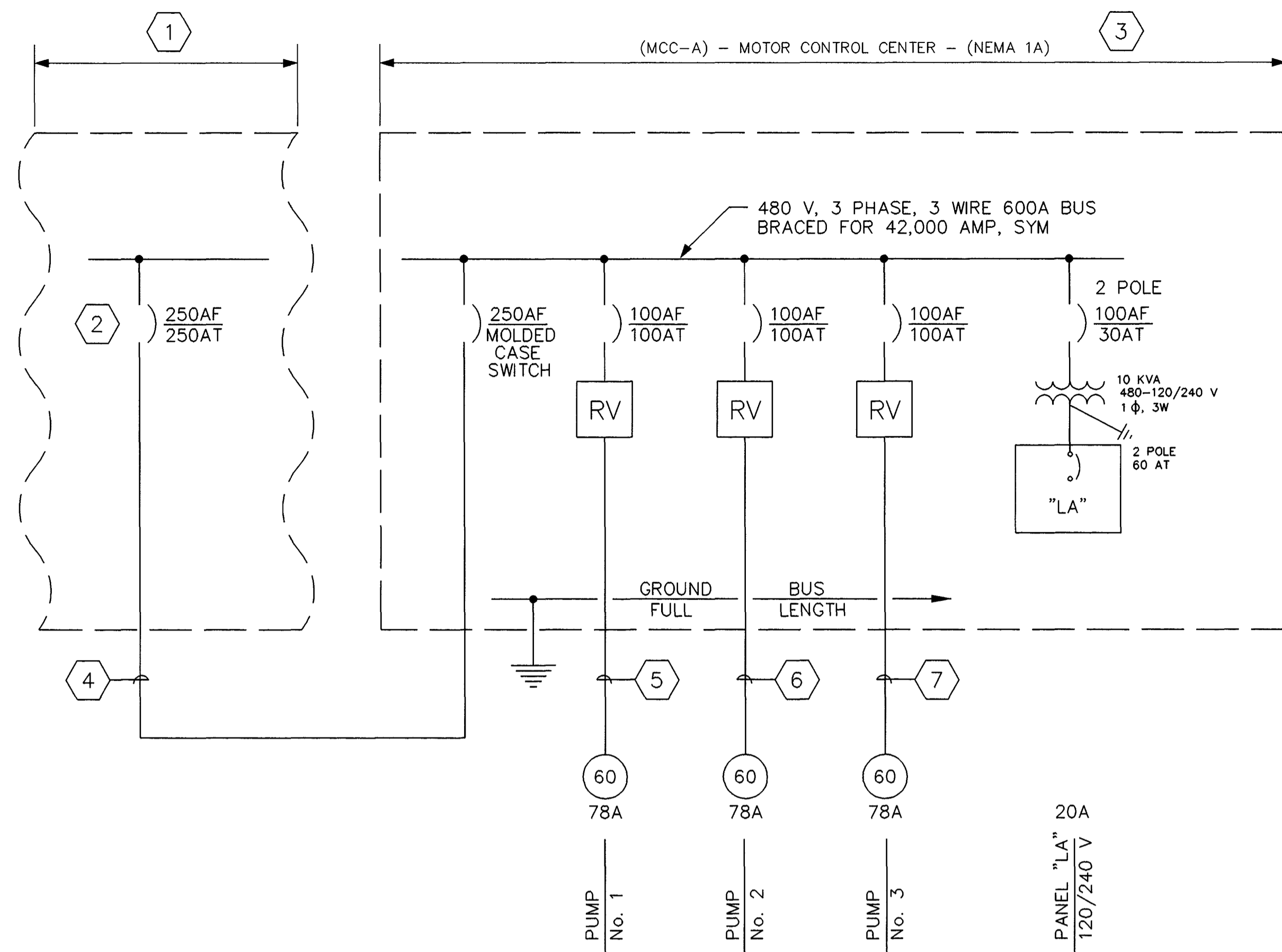
NOTES:  
CYLINDER OPERATOR SUPPLY LINE SHALL BE SIZED TO PROVIDE THE AMOUNT OF WATER REQUIRED TO VENT THE CONTENTS OF THE CYLINDER AT THE MINIMUM VALVE CLOSURE SPEED

AS BUILT

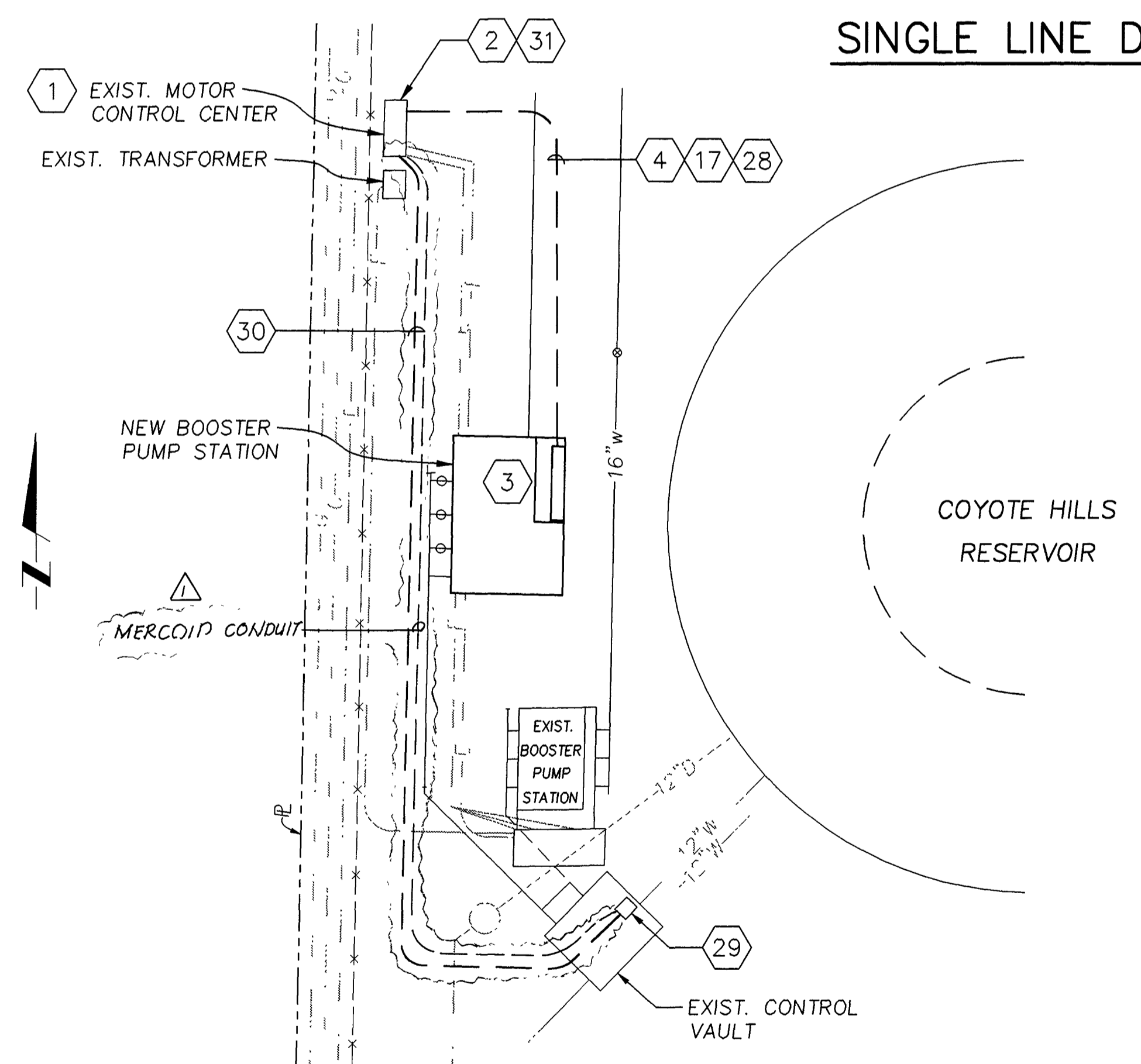


PREPARED BY <b>Sidawi &amp; Associates</b> consulting engineers 3184-K Airway Ave Costa Mesa, CA 92626 (714) 966-1416		THESE PLANS WERE PREPARED UNDER THE SUPERVISION OF  DATE 10/10/97, REGISTERED CIVIL ENGINEER NO 19243		CORROSION INDEX PRESSURE ZONE WATER BOOK NUMBER 39	FOR CITY USE ONLY INITIAL DATE CHECKED <b>MIR.F. 10.23.97</b> ENGINEERING WATER MAINT R/W	CITY OF FULLERTON ENGINEERING DEPARTMENT WATER ENGINEERING DIVISION COYOTE BOOSTER PUMP STATION 1C-2 REPLACEMENT MECHANICAL SECTIONS APPROVED <b>S.R. CL+</b> 10/23/97 WATER SYSTEM ENGINEERING DATE APPROVED <b>Robert E. Nelson</b> 10/23/97 DIRECTOR OF ENGINEERING DATE
REVISION NO INITIAL REVISIONS APPROVED BY DATE Δ "AS-BUILT" 12/2/97		REFERENCES FIELD BOOK PAGES BENCH MARK SEE SHEET 1 FOR STANDARD DETAIL SEE REFERENCE DRAWING		SCALE AS SHOWN DWG NO W.D. 2179 SHEET 5 OF 8 SHEETS		

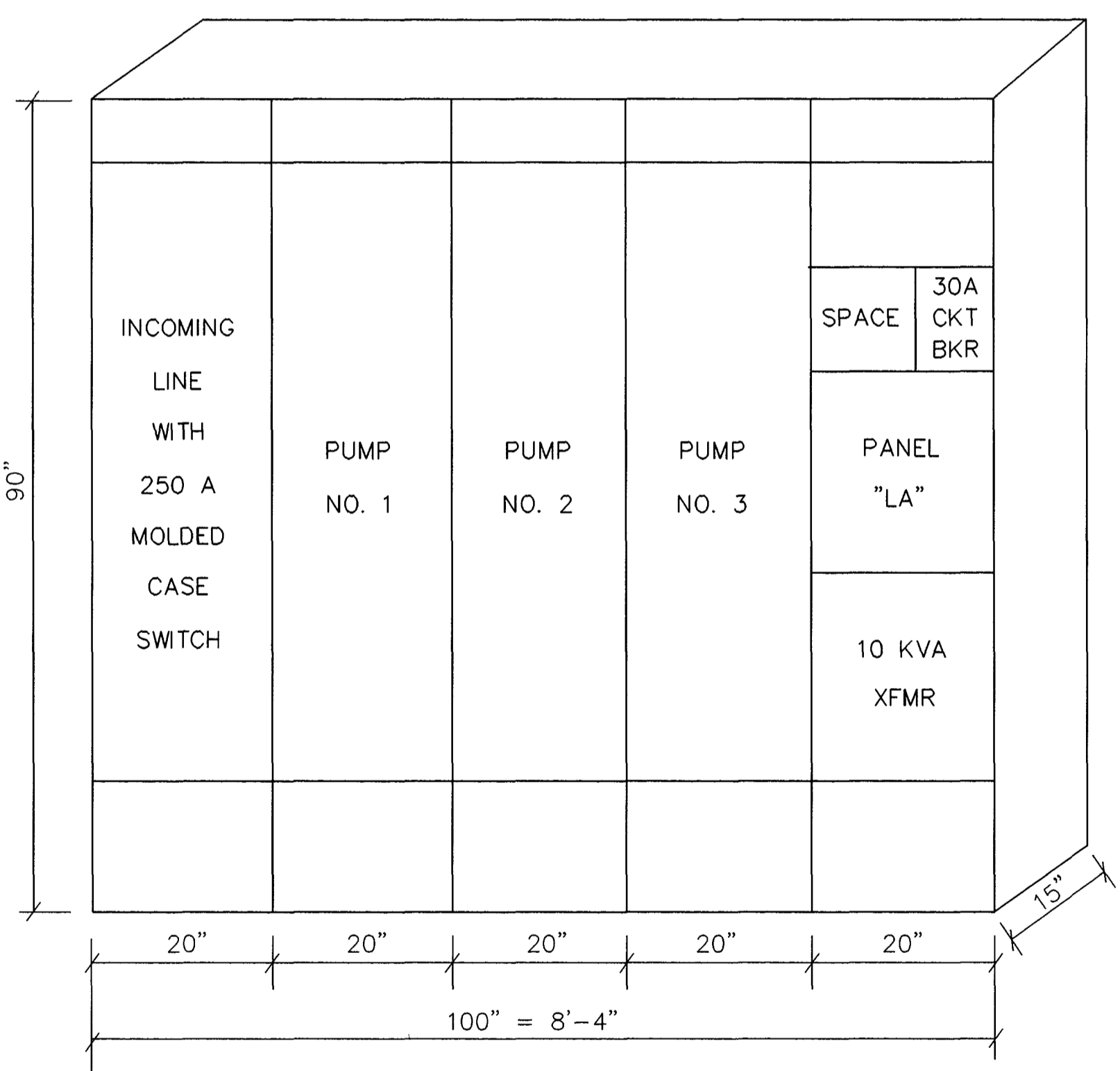
JOB NO. 209-001 10/7/97



**SINGLE LINE DIAGRAM**



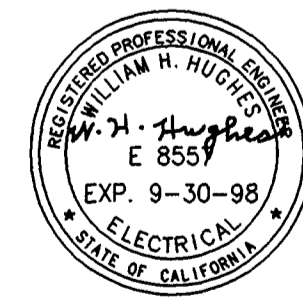
**ELECTRICAL SITE PLAN**  
1" = 20'



**MCC-A ELEVATION**  
NTS

- LEGEND**
- CONDUIT RUN, EXPOSED
  - - - CONDUIT RUN, CONCEALED IN FLOOR OR UNDERGROUND
  - CONDUIT TURNED DOWN
  - CONDUIT TURNED UP
  - G— GROUND WIRE
  - III — CROSS MARKS ON CONDUIT INDICATE NUMBER OF No.12 CIRCUIT WIRES ONLY. EXAMPLE IS 3/4 INCH CONDUIT WITH 3 No.12 WIRES. IN ADDITION TO THE NUMBER OF CIRCUIT WIRES SHOWN A GREEN GROUND WIRE SHALL ALSO BE INCLUDED IN THE RUN. CIRCUIT RUNS NOT MARKED INDICATE 2 No.12 WIRES.
  - ⊕ JUNCTION BOX
  - ⊕ DUPLEX RECEPTACLE, 1 PHASE
  - ⊕ FLUORESCENT FIXTURE, SURFACE OR PENDENT MOUNTED
  - ⊕ INCANDESCENT OR HID LIGHTING FIXTURE, WALL MOUNTED
  - ⊕ SINGLE POLE SWITCH, a INDICATES OUTLETS CONTROLLED
  - ⊕ MOTOR, SINGLE PHASE, 1/2 INDICATES HORSEPOWER
  - ⊕ MOTOR, 3 PHASE, 5 INDICATES HP
  - ⊕ GROUND ROD, SIZE AS INDICATED
  - ⊕ 100 AF 50 AT MOLDDED CASE CIRCUIT BREAKER, AF=AMPERE FRAME AT=AMPERE TRIP
  - RV REDUCED VOLTAGE MOTOR STARTER (SEE SPECIFICATION 16000)
  - ⊕ TRANSFORMER
  - ⊕ HOA (HAND-OFF-AUTO) SWITCH.
  - ⊕ SOLENOID VALVE.
  - ⊕ NOTE - SEE NOTES
  - ⊕ LIMIT SWITCH
  - ▲ DEVICE LOCATED REMOTE FROM MCC
  - BC BARE COPPER
  - CO CONDUIT ONLY
  - GFCI GROUND FAULT CIRCUIT INTERRUPTER
  - GND GROUND
  - O/L OVERLOAD
  - WP WEATHER PROOF
  - XFMR TRANSFORMER
  - RTU REMOTE TERMINAL UNIT (LOCATION IN MCC)
  - MIN MINIMUM
  - RV REDUCED VOLTAGE

**AS BUILT**



PREPARED BY  
**Sidawi & Associates**  
CONSULTING ENGINEERS  
3184-K Airway Ave  
Costa Mesa, CA 92626  
(714) 966-1416

THESE PLANS WERE PREPARED UNDER THE SUPERVISION OF  
*William H. Huot*  
DATE 10/10/97 REGISTERED CIVIL ENGINEER NO 19243

DRAWN	INITIAL	DATE
CHECKED		

**CITY OF FULLERTON**  
ENGINEERING DEPARTMENT  
WATER ENGINEERING DIVISION

REVISION				
NO	INITIAL	REVISIONS	APPROVED BY	DATE
Δ		"AS-BUILT"		12/2/98

REFERENCES				
FIELD BOOK	PAGES	BENCH MARK NO	FOR STANDARD DETAIL SEE	
			ELEVATION	
			REFERENCE DRAWING	

CORROSION INDEX	FOR CITY USE ONLY
PRESSURE ZONE	CHECKED <u>M.H.E.</u> DATE <u>10-23-97</u>
WATER BOOK NUMBER	39
FINAL CHECK AS CONST.	

COYOTE BOOSTER PUMP STATION 1C-2 REPLACEMENT  
SINGLE LINE DIAG., MCC ELEV. PLAN & LEGEND

APPROVED R. Col + 10/23/97 DATE 10/23/97 APPROVED Robert E. Johnson 10/23/97 DATE 10/23/97  
WATER SYSTEM ENGINEERING DIRECTOR OF ENGINEERING

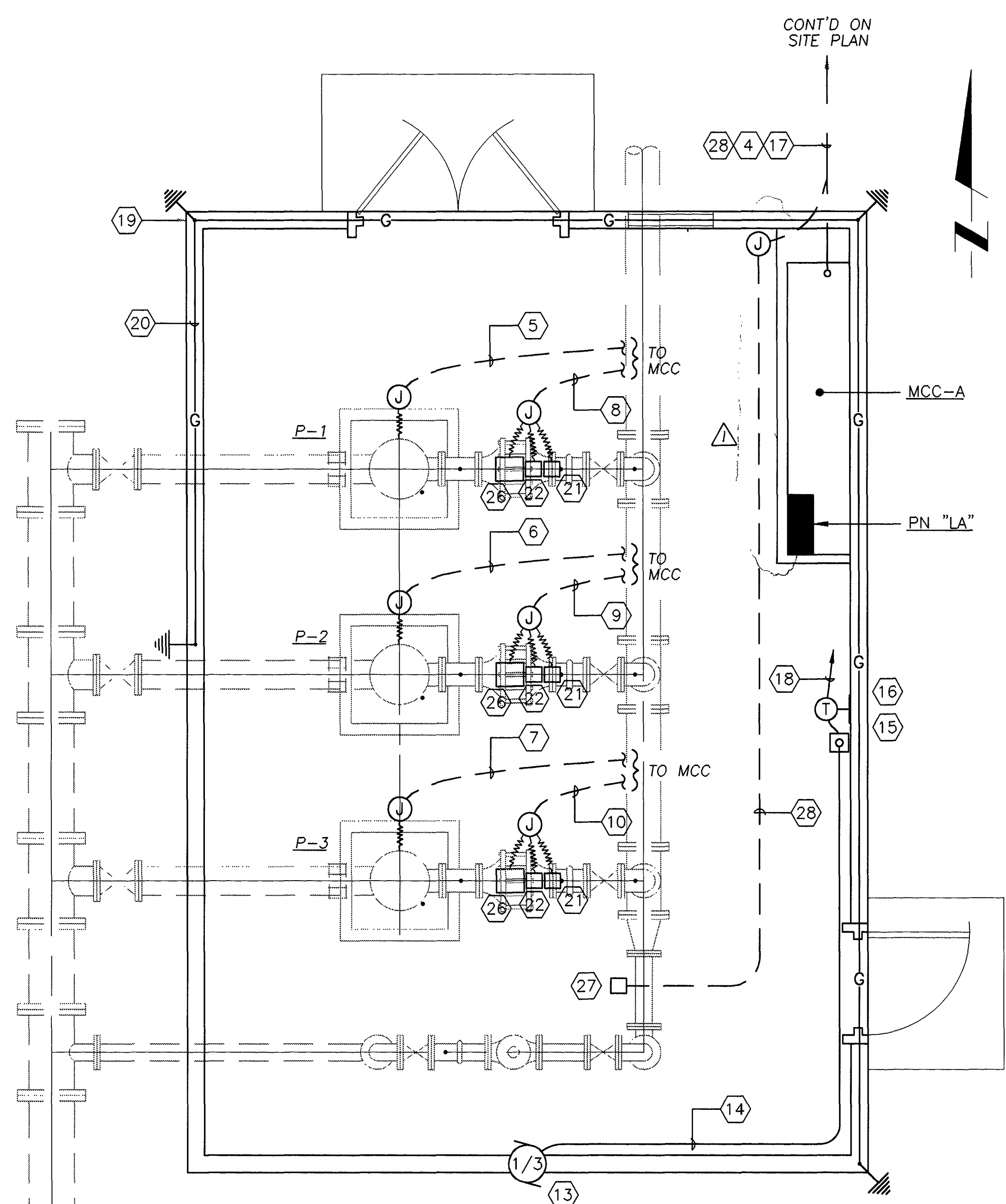
SCALE AS SHOWN DWG NO W.D. 2179 SHEET 6 OF 8 SHEETS

10/7/97 JOB NO 209-001

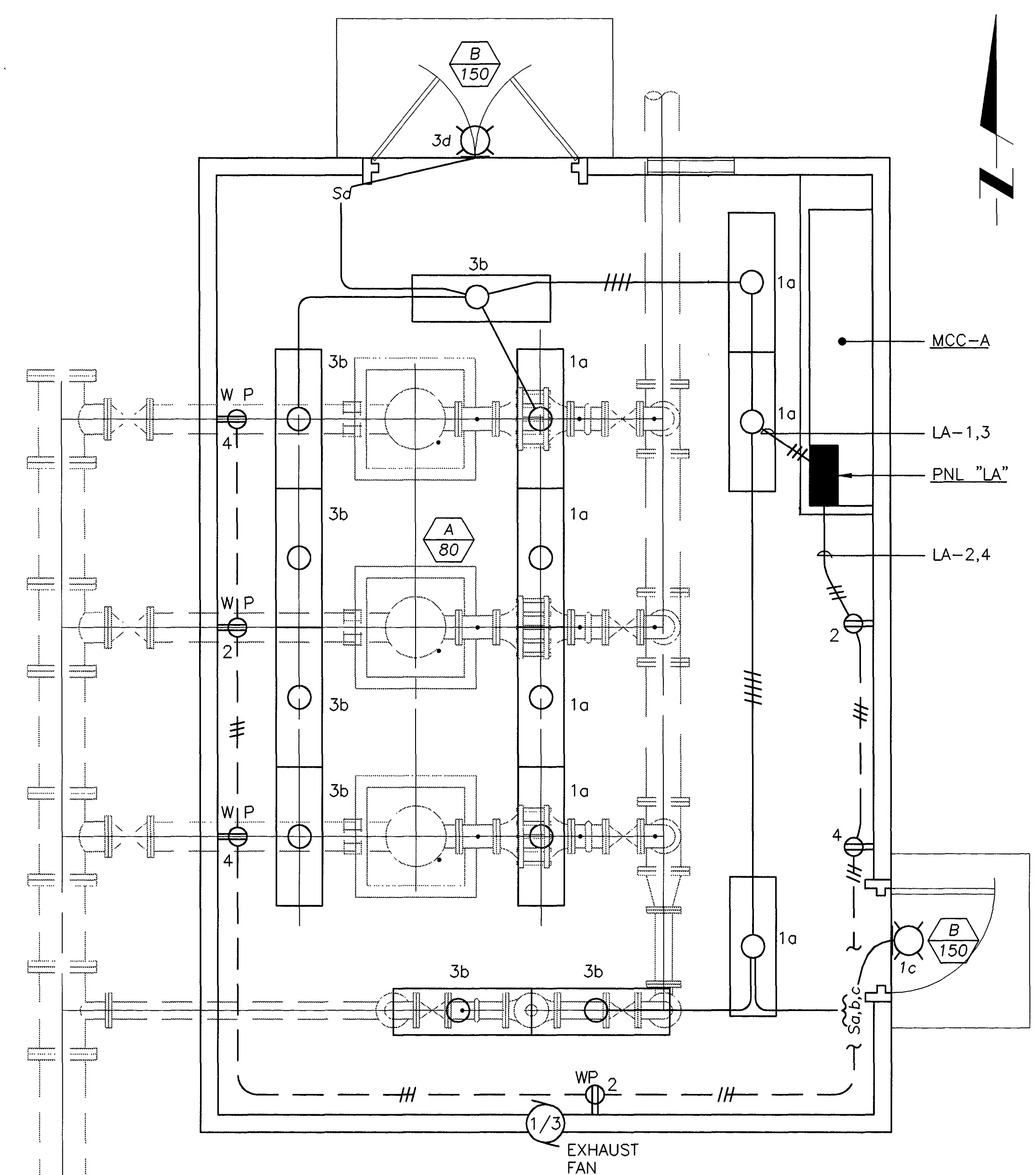


**NOTES**

- ① EXISTING UNIT 6 IN EXISTING MAIN SWITCHBOARD, MOTOR CONTROL CENTER, AND MAIN CONTROL PANEL AT SITE
- ② NEW 250 AF, 250 AT, 3 POLE, 480 VAC, THERMAL-MAGNETIC MOLDED CASE CIRCUIT BREAKER (SEE SPECIFICATION 16000)
- ③ NEW MOTOR CONTROL CENTER (SEE SPECIFICATION 16000)
- ④ 2" C, 3 #4/0 AND 1 #4 GND
- ⑤ 1 1/4" C, 3 #2 AND 1 #8 GND
- ⑥ 1 1/4" C, 3 #2 AND 1 #8 GND
- ⑦ 1 1/4" C, 3 #2 AND 1 #8 GND
- ⑧ 3/4" C, 10 #14 AND 1 #14 GND
- ⑨ 3/4" C, 10 #14 AND 1 #14 GND
- ⑩ 3/4" C, 10 #14 AND 1 #14 GND
- ⑪ NOT USED
- ⑫ NOT USED
- ⑬ EXHAUST FAN - FURNISHED BY MECHANICAL
- ⑭ 3/4" C, 2 #12 AND 1 #12 GND
- ⑮ FRACTIONAL HORSEPOWER MANUAL MOTOR STARTER WITH OVERLOAD RELAY AND H-O-A SELECTOR SWITCH
- ⑯ COOLING THERMOSTAT, 120 VAC (FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR)
- ⑰ 3/4" C, 16 #14 AND 1 #14 GND
- ⑱ 3/4" C, 2 #12 AND 1 #12 GND (CKT LA-6)
- ⑲ GROUND ROD (SEE SPECIFICATION 16000), TYPICAL
- ⑳ UFER GROUND WIRE, # 1/0 BC IN BOTTOM OF BUILDING FOOTING, 2" MIN CONCRETE COVER
- ㉑ LIMIT SWITCH (FURNISHED BY MECHANICAL)
- ㉒ PRESSURE SWITCH (FURNISHED BY MECHANICAL)
- ㉓ 4-WAY VALVE SOLENOID COIL (FURNISHED BY MECHANICAL)
- ㉔ 2-WAY VALVE SOLENOID COIL (FURNISHED BY MECHANICAL)
- ㉕ 2-WAY VALVE SOLENOID COIL (FURNISHED BY MECHANICAL)
- ㉖ CONTROL CABINET HOUSING ㉓, ㉔ & ㉕ (FURNISHED BY MECHANICAL)
- ㉗ SYSTEM PRESSURE TRANSMITTER (FURNISHED BY MECHANICAL)
- ㉘ 3/4" C, 3/C #18 SHIELDED CABLE
- ㉙ EXISTING SUCTION PRESSURE TRANSMITTER
- ㉚ 3/4" C, 3/C #18 SHIELDED CABLE
- ㉛ THE RTU IS EXISTING AND IT WILL BE PROGRAMMED TO ACCOMMODATE THE NEW PUMP STATION. THE OLD PUMP STATION WILL BE DISCONNECTED AFTER THE NEW PUMP STATION IS READY FOR OPERATION.

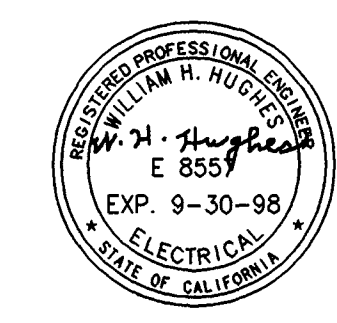


**POWER PLAN**  
3/8"=1'-0"



**LIGHTING PLAN**  
3/8"=1'-0"

**AS BUILT**



PREPARED BY  
**Sidawi & Associates**  
consulting engineers  
3184-K Airway Ave  
Costa Mesa, CA 92626  
(714) 966-1418

THESE PLANS WERE PREPARED UNDER THE SUPERVISION OF:  
*W. Sidawi*  
DATE: 10/10/97 REGISTERED CIVIL ENGINEER NO. 19243

DRAWN	INITIAL	DATE
CHECKED		

**CITY OF FULLERTON**  
ENGINEERING DEPARTMENT  
WATER ENGINEERING DIVISION

REVISION			
NO.	INITIAL	REVISIONS	DATE
Δ		"AS-BUILT"	12/2/98

REFERENCES			
FIELD BOOK	PAGES	BENCH MARK NO.	FOR STANDARD DETAIL SEE
		ELEVATION	REFERENCE DRAWING

CORROSION INDEX	FOR CITY USE ONLY
PRESSURE ZONE	CHECKED INITIAL DATE
WATER BOOK NUMBER	ENGINEERING WATER MAINT. R/W
39	FINAL CHECK AS CONST

COYOTE BOOSTER PUMP STATION 1C-2 REPLACEMENT POWER & LIGHTING PLANS, AND NOTES	
APPROVED <i>R. CR</i> DATE: 10/23/97	APPROVED <i>Robert E. Dawson</i> DATE: 10/23/97
SCALE: AS SHOWN	DWG. NO. W.D. 2179
	SHEET 7 OF 8 SHEETS

JOB NO. 209-001



**BID ACKNOWLEDGEMENTS**

1. The undersigned will execute the Agreement and furnish the required statutory bonds and certificates of insurance within **21 calendar days** after notice to him of acceptance of his Bid by the City and shall complete said work within **thirty (30) working days\*** from the date specified in a written notice to proceed.
2. The undersigned agrees that the quantities given in the unit price of Bid Schedule and in other Contract Documents are approximate, being given only as a basis for the comparison of bids, and the City of Fullerton does not expressly or by implication agree that the actual amount of work will correspond therewith, but reserves the right to increase or decrease the amount of any class or portion of the work or to omit portions of the work, as may be deemed necessary or expedient by the City of Fullerton.
3. The undersigned agrees that the price for each item of work includes all applicable taxes.
4. The undersigned agrees that the liquidated damages shall be **\$2,700 per calendar day**.

Company: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Signature: \_\_\_\_\_

\* *Working days exclude Saturdays, Sundays, and Legal Holidays*

**SECTION 01 22 00  
UNIT PRICES**

**PART 1 - GENERAL**

**1.1 Description**

- A. Measurement and payment for Bid Items listed in proposal shall be based upon use of lump sum or unit price method. Extra Work or changes in Work shall be accomplished as provided in Special Provisions.

**1.2 Payment**

- A. Payment for Unit Price Items

Payment for unit price Bid Items shall be based upon amount shown in bid schedule multiplied by total quantity measurement of item, and shall be full compensation for furnishing all supervision, planning, design, design engineering fees, labor, transportation, materials, equipment, tools, and appurtenances required for construction of item complete in place in accordance with Plans and Specifications.

- B. Payment for Lump Sum Items

Payment for lump sum Bid Items shall be based upon amount shown in bid schedule and shall be full compensation for furnishing all supervision, planning, design, design engineering fees, labor, transportation, materials, equipment, tools and appurtenances required for construction of unit of Work complete in place in accordance with Plans and Specifications.

- C. Work Not Listed in Bid Schedule

Costs for related Work and appurtenances which are required and/or implied by General Provisions, Technical Specifications, Special Provisions, and Plans and are not listed as separate Bid Item but are necessary to complete project shall be included in appropriate Bid Item or items within proposal.

**PART 2 - MATERIALS**

**2.1 General (Measurement)**

- A. Measurement for unit price quantities shall be based upon appropriate Bid Item in proposal. Actual quantity of measurement shall be as constructed by Contractor in place in conformance with Plans and Specifications.

**2.2 Unit Measurements**

- A. Measurement for Bid Items involving units of item shall be based upon quantity of units counted as indicated in Bid Item.

**2.3 Lump Sum Measurement**

- A. Measurement for lump sum Bid Items shall be considered as a complete project or portion of project constituting a unit. Items to be included in lump sum Bid Items shall be as specified in proposal Bid Item and/or Standard or Special Provisions.

**2.4 Payment for Testing**

- A. Party responsible for payment for testing is identified in individual sections of Contract Documents under tests required. Where specifications are silent regarding responsible party paying for tests, costs of first tests will be paid by Owner.

- B. If testing or inspection indicates failure of material or procedure to meet Contract Document requirements, Owner will back-charge Contractor for retesting and reinspection costs incurred by testing or inspection agency of Owner's choice.
- C. Additional tests and inspections not specified herein but requested by Owner will be paid for by Owner, unless result of such tests and inspections are found to not comply with Contract Documents, in which case Owner will pay all costs for initial testing as well as retesting and reinspection and back-charge Contractor for retesting and reinspection.
- D. Costs for additional tests or inspections required because of change in materials being provided or change of source or supply shall be paid by Contractor direct to testing laboratory.
- E. Cost of testing which is required solely for convenience of Contractor in his scheduling and performance of Work shall be borne by Contractor.
- F. Contractor shall pay all costs for correcting deficiencies.

## **2.5 Changes in Quantities Initiated by Owner**

- A. Owner may change Contract Documents or character and quantity of work provided total arithmetic dollar value of all changes, both additive and deductive, does not exceed 25% of Contract Price. Changes in allowance Bid items with stipulated prices will not be considered to contribute toward this total.
- B. Should it become necessary to exceed this limitation, change shall be documented by written Supplemental Agreement between Contractor and Owner unless both parties agree to proceed under Change Order.
- C. Changes ordered in Work items which do not substantially change character of Work from that shown in Contract Documents, will be accompanied by proportional adjustment in payment to reflect quantity changes using unit prices bid, provided Bid quantity does not change by more than 25%.
- D. Where Bid quantities under any Bid item are limited to 2 or 3 integral units (eg. 2 valves) the 25% figure above shall be revised upward (to 50% or 34% respectively) to permit addition or deletion one integral unit without changing Bid price.
- E. Payment for quantities in excess of 125% of quantities (or appropriate percentage for 2- or 3-unit Bid items) will be made at mutually agreed rate lower than Bid amount since Contractor's fixed costs shall be deemed to have been recovered through payment for Bid quantity at Contract unit price.
- F. Payment for quantities less than 75% (or appropriate percentage for 2- or 3-unit Bid items) will only be adjusted by mutual agreement if Contractor requests so in writing. In no case will payment be less than Contractor is entitled to under original Bid prices nor more than payment due for 75% (or appropriate percentage for 2- or 3-unit Bid items) of Bid quantity at Contract Unit Price.
- G. If mutual agreement cannot be reached, Owner may direct Contractor to proceed on basis of Extra Work as covered in General Provisions.
- H. Should any Bid item be eliminated in its entirety, payment will be made to Contractor for actual out-of-pocket costs incurred in connection with eliminated item prior to written notification from Owner of deletion of Bid item. Where applicable, Contractor will also be reimbursed for out-of-pocket shipping costs and Manufacturer's restocking fees.
- I. If materials have been ordered prior to date of written notification of deletion of Bid item and order cannot be cancelled, Contractor will be paid for actual cost of ordered item and ordered material shall become Owner's property.
- J. In no case shall expenses such as bonding costs expressly covered under other Bid items be double-charged to Owner.



## **PART 3 - EXECUTION**

### **3.1 Scope**

- A. This section defines Bid Items listed in Bid schedule and describes measurement and payment provisions for each item.

### **3.2 Bid Item 1 – Mobilization/Demobilization**

- A. Amount bid for Mobilization/Demobilization shall not exceed 5.0% of Contractor's Bid total.
- B. Payment for this item will be made at lump sum price named in Bid Schedule under Item Number 1, which price shall constitute full compensation for all Work and expenditures required to mobilize, provide insurance, obtain required permits, take preconstruction photos and videos, prepare project schedule, perform required site reconnaissance, testing, noise and dust control, site maintenance and cleanup, remove and reinstall existing site facilities as required, comply with all General and Supplementary conditions, demobilize, provide record drawings, and warranties, and provide cleanup of construction site complete in place, as required by Contract Documents with sole exclusion of payments to be made as defined herein for other items in Bid Schedule.
- C. Work to be paid for under this item shall also include furnishing, setting up, and removing Contractor's operations at project site including temporary utilities, staging areas, security, etc. Work shall also include furnishing any temporary construction facilities required by Contract Documents.
- D. Upon completion of mobilization, 50% of amount bid for this item (or 50% of stipulated 5.0% cap, whichever is less) will be paid to Contractor. Remainder will be paid as part of final contract payment upon project completion.

### **3.3 Bid Item 2 - Verification of Utility Locations, Field Dimensions, and Existing Electrical Work**

- A. No measurement will be made for this item.
- B. Work to be paid for under this item shall include verification of utility depths, locations, and field dimensions prior to ordering materials and equipment including potholing, field measurements, and electrical inspections as needed to ascertain materials and equipment ordered can be properly and legally installed within verified field conditions. Work to be paid for under this Bid Item shall include notifying Owner's Representative of any found discrepancies between conditions shown on Plans and field conditions, and appurtenant Work as required by Contract Documents.
- C. Before ordering and manufacture of equipment or structures described in submittals, Contractor shall verify the following under this pay item:
  - 1. That submitted item(s) can be delivered to point of installation and will fit through applicable doors, hatches, gates and/or openings both during construction and following completion of construction.
  - 2. That flanges or ends of pumps, valves, and piping equipment are of compatible sizes, offsets, configurations and pressure classes to mate with adjacent piping.
  - 3. That dimensions of vertical turbine pumps and motors will fit through existing doors, hatches, and openings and can be installed for Bid amount within existing pump cans or wells without violating applicable NEC or other code clearances or rendering piping, service hatches, ports or panels inoperable or inaccessible for service.
  - 4. That power requirements, including voltage, phase and full-load amperage of electrical equipment and motors are consistent with power available on site.

- D. If discrepancies are discovered between field conditions and dimensions shown on submittals and Contract Documents, Owner's Representative will work with Contractor to prepare such modifications to Contract Documents as required to address issues brought up.
- E. If discrepancies are discovered between field conditions and dimensions shown on submittals and Contract Documents, but said discrepancies are not brought to attention of Owner's Representative by Contractor in clear and timely manner, Owner's liability shall be limited to difference in cost between Work shown in Contract Documents and Work that would be necessary had Contractor notified Owner of said discrepancy at time submittals were delivered.

**3.4 Bid Item 3 – Water Pollution Control**

- A. No measurement will be made for this item.
- B. Work to be paid for under this item shall include all labor, materials and equipment for Water Pollution Control including compliance with BMP Implementation and Erosion Control requirements of local Regional Water Quality Control Board including placement of erosion control measures, and any appurtenant Work in accordance with warranty requirements as required by Contract Documents.
- C. Payment shall be made based on percentage of work completed.

**3.5 Bid Item 4 – Excavation Safety Measures**

- A. No measurement will be made for this item.
- B. Work to be paid for under this item shall include constructing, removing and disposing of all temporary sheeting, shoring and bracing or equivalent method for protection of life and limb of workers in trenching or open excavations in accordance with requirements of
  1. OSHA,
  2. Construction Safety Orders of State of California pursuant to provisions of Section 6707 of California Labor Code, and
  3. Standards of Regional Water Quality Control Board regarding disposal of water and regarding protection of soils from arsenic and other pollutants which may be present in sheeting, shoring and bracing materials.
- C. This Work includes all excavation safety measures required to safely construct Work.
- D. Payment shall be made based on percentage of work completed.

**3.6 Bid Item 5 – Structural, Mechanical, Electrical Demolition, and Salvage**

- A. No measurement will be made for this item.
- B. Work to be paid for under this item shall include all labor, materials and equipment for structural, mechanical and electrical demolition including testing for asbestos before demolition, removal of existing concrete, steel, metal, wood, or plastic structural, mechanical or electrical items shown, removal and legal disposal of asbestos or other hazardous materials, salvage of materials noted, and any appurtenant Work as required by Contract Documents.
- C. Work to be paid for under this item shall include all labor, materials and equipment to remove existing pump barrel, concrete encasement, suction piping and discharge piping, accessories, salvaging valves, as well as demolition of existing concrete slab, concrete pad, and concrete encasement, and any appurtenant Work as required by Contract Documents.
- D. If materials noted to be salvaged are disposed of or damaged, the Contractor shall replace with new and no additional payments will be made.

### **3.7 Bid Item 6 – Steel Pump Barrel, Pump Base, Slab, and Suction Piping Improvements**

- A. No measurement will be made for this item.
- B. Work to be paid for under this item shall include all labor, materials, and equipment to construct steel pump barrel of size, class and type shown including excavation, concrete foundation, pump can, suction inlet, steel reinforcement cage, concrete encasement, pump barrel flange, ductile iron suction piping and couplings, connection to existing valve, polyethylene wrap, slurry backfill, and any appurtenant Work as required by Contract Documents.
- C. Work to be paid for under this item shall include all labor, materials, and equipment to construct new pump base where shown including excavation, formwork, steel reinforcing, anchors, embedded bolts for discharge head, concrete, special inspection, removal of forms, curing, testing, finishing, and all appurtenant Work as required by Contract Documents.
- D. Work to be paid for under this item shall also include all labor, materials, and equipment to construct concrete slab around new pump base pad, including subgrade preparation, aggregate base, compaction, concrete, reinforcing, curing, joint work, cleanup, and any appurtenant Work as required by Contract Documents.
- E. Work to be paid for under this item shall also include all labor, materials, and equipment to construct drain piping removed during excavation, including removal and disposal of existing drain piping, subgrade preparation, installing PVC drain pipe of size shown, connecting to existing, bedding, backfill, compaction, cleanup, and all appurtenant Work as required by Contract Documents.

### **3.8 Bid Item 7 – Install Owner Reconditioned Vertical Turbine Pump and Construct Discharge Piping Assembly**

- A. No measurement will be made for this item.
- B. Work to be paid for under this item shall include all labor, materials, and equipment to install Owner reconditioned vertical turbine water pump and attached motor including discharge head, pump and motor assembly, columns, shafts, bowls, piping, couplings, fittings, supports, seals, and any appurtenant Work as required by Contract Documents.
- C. Work to be paid for under this item shall include furnishing all labor, materials, and equipment to construct discharge piping assembly, including ductile iron pipe, flanges, fittings, couplings, nuts and bolts, pipe supports, reinstallation of salvaged pump control valve, reconnection of electrical conduits and wiring to motor and pressure transmitter, joining existing isolation valve, painting and coating, and any appurtenant Work as required by Contract Documents.
- D. Work to be paid for under this item shall include all labor, materials and equipment for start-up, testing, troubleshooting, calibration, system demonstration and presenting Work to Owner in satisfactory working condition and in accordance with warranty requirements as required by Contract Documents.

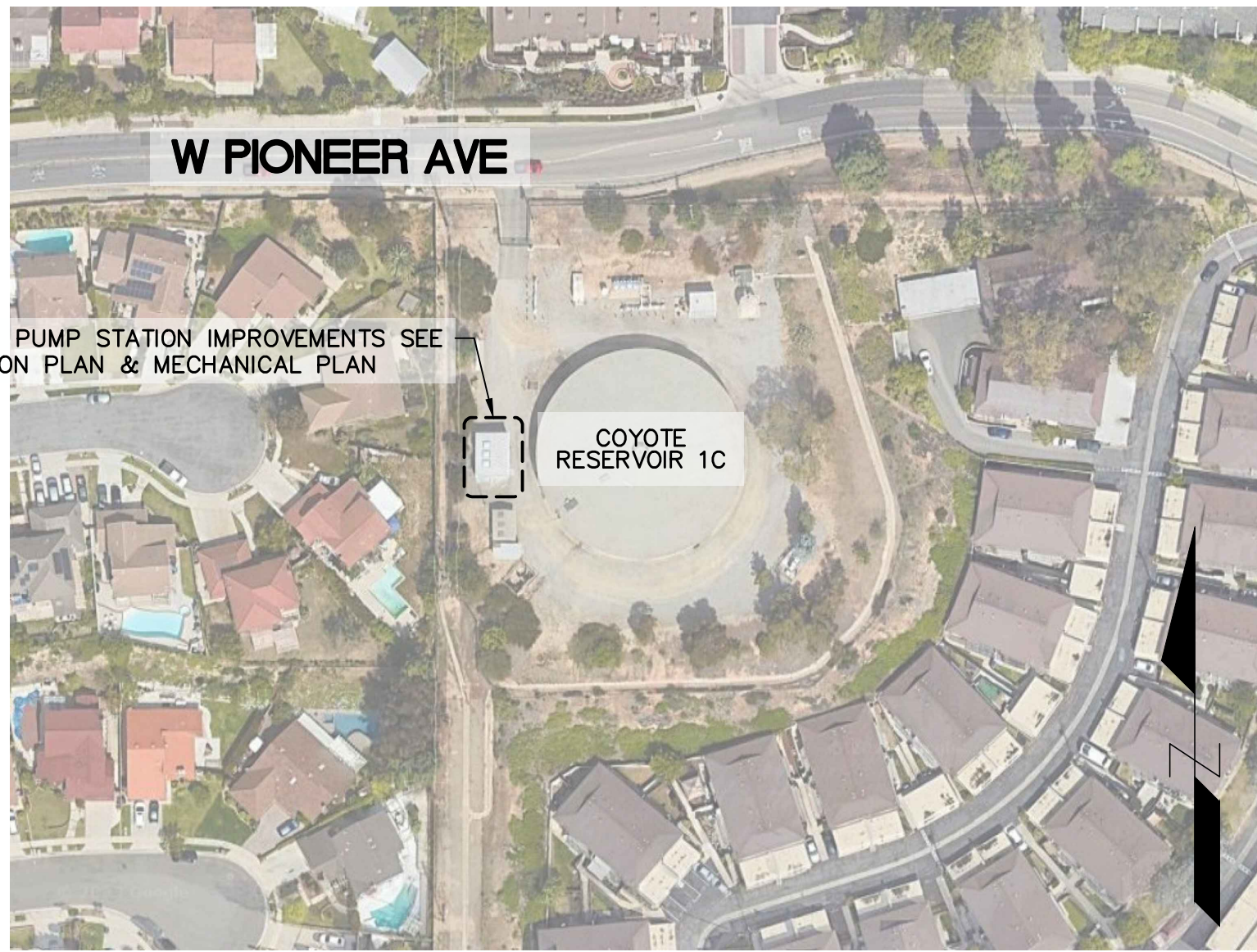


**3.9 Bid Item 8 – Miscellaneous Electrical Work**

- A. No measurement will be made for this item.
- B. Work to be paid for under this item shall include all labor, materials, and equipment to construct miscellaneous electrical work including wiring and conduits to pump control valve, wiring and conduits for pressure transmitter, joining existing junction and pull boxes, pressure gauges, pressure transmitters, functionality testing, and any appurtenant Work as required by Contract Documents.

**END OF SECTION**

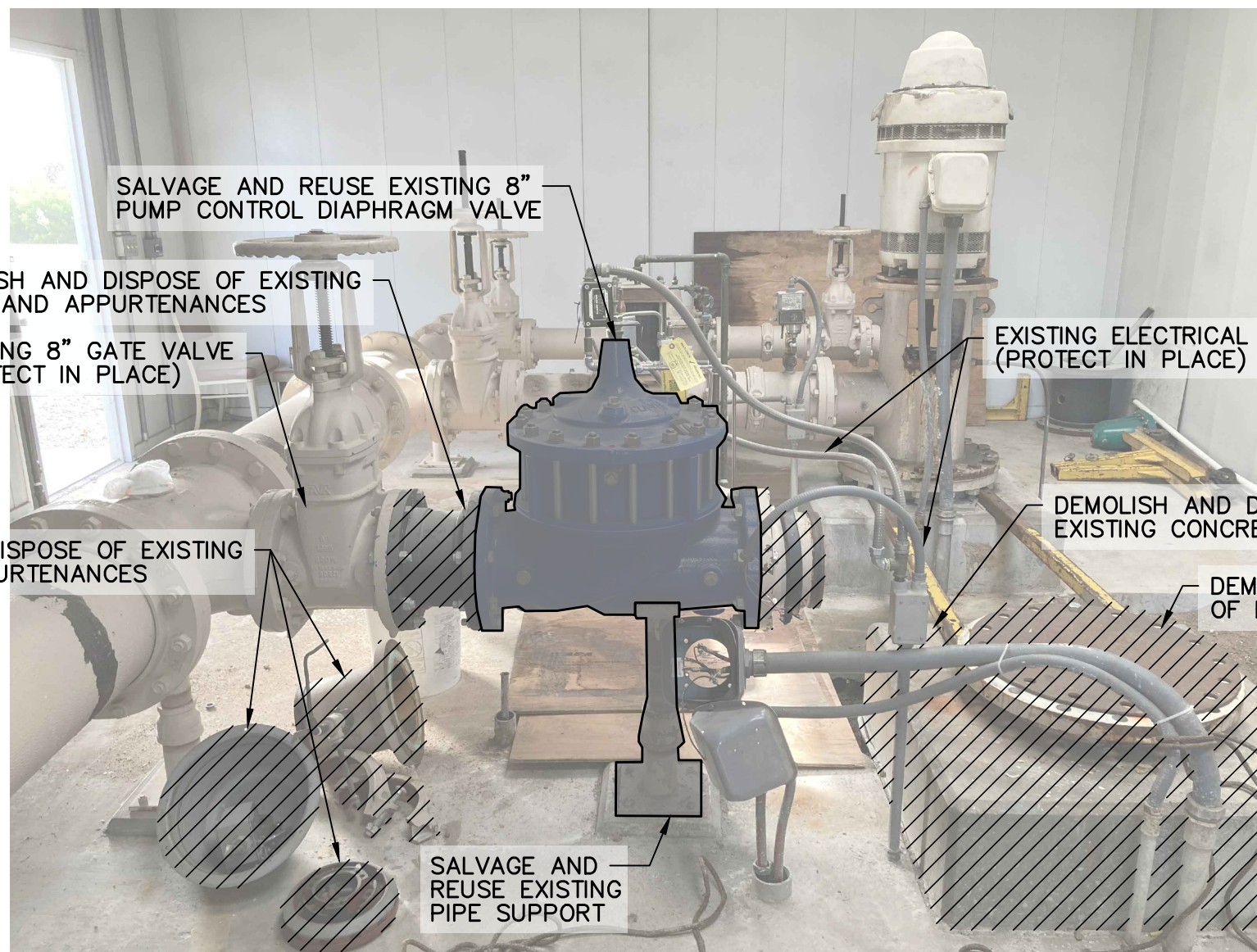




BOOSTER PUMP STATION IMPROVEMENTS SEE DEMOLITION PLAN & MECHANICAL PLAN

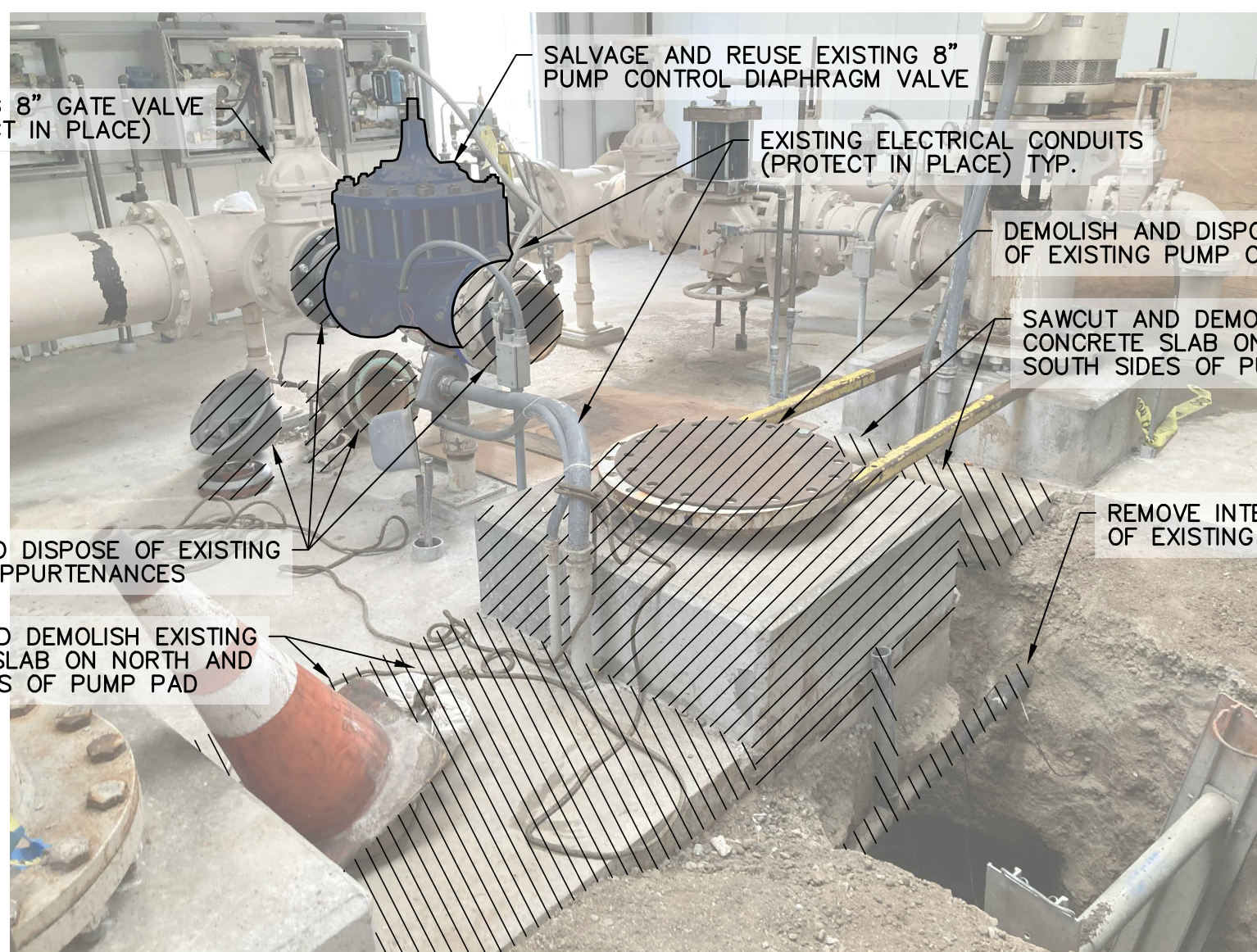
**SITE PLAN**

SCALE: 1"=100'



**DEMOLITION DETAIL 1**

NTS



**DEMOLITION DETAIL 2**

NTS

**NOTICE TO CONTRACTOR:**  
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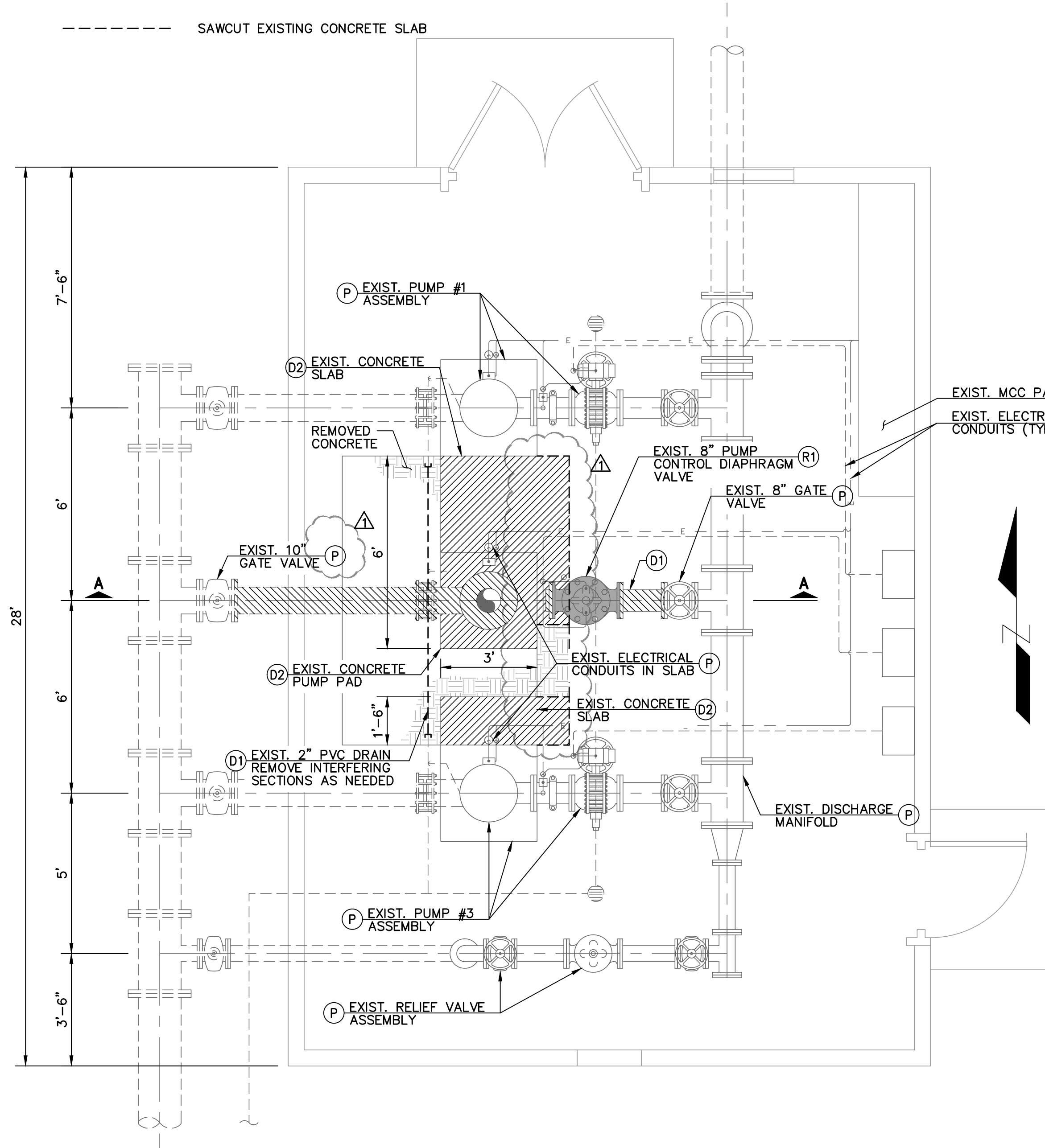
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 ORANGE, CA 92867  
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**DEMOLITION NOTES**

- (D1) DEMOLISH AND DISPOSE OF EXISTING PIPING, VALVES, PUMPS, AND APPURTENANCES PER 1 & 2
- (D2) DEMOLISH AND DISPOSE OF EXISTING SUCTION CAN, CONCRETE PADS AND SLABS
- (R1) SALVAGE AND REUSE EXISTING VALVE AND PIPE SUPPORT PER 1 & 2
- (R2) SALVAGE AND REUSE EXISTING VALVE CAN
- (P) PROTECT IN PLACE

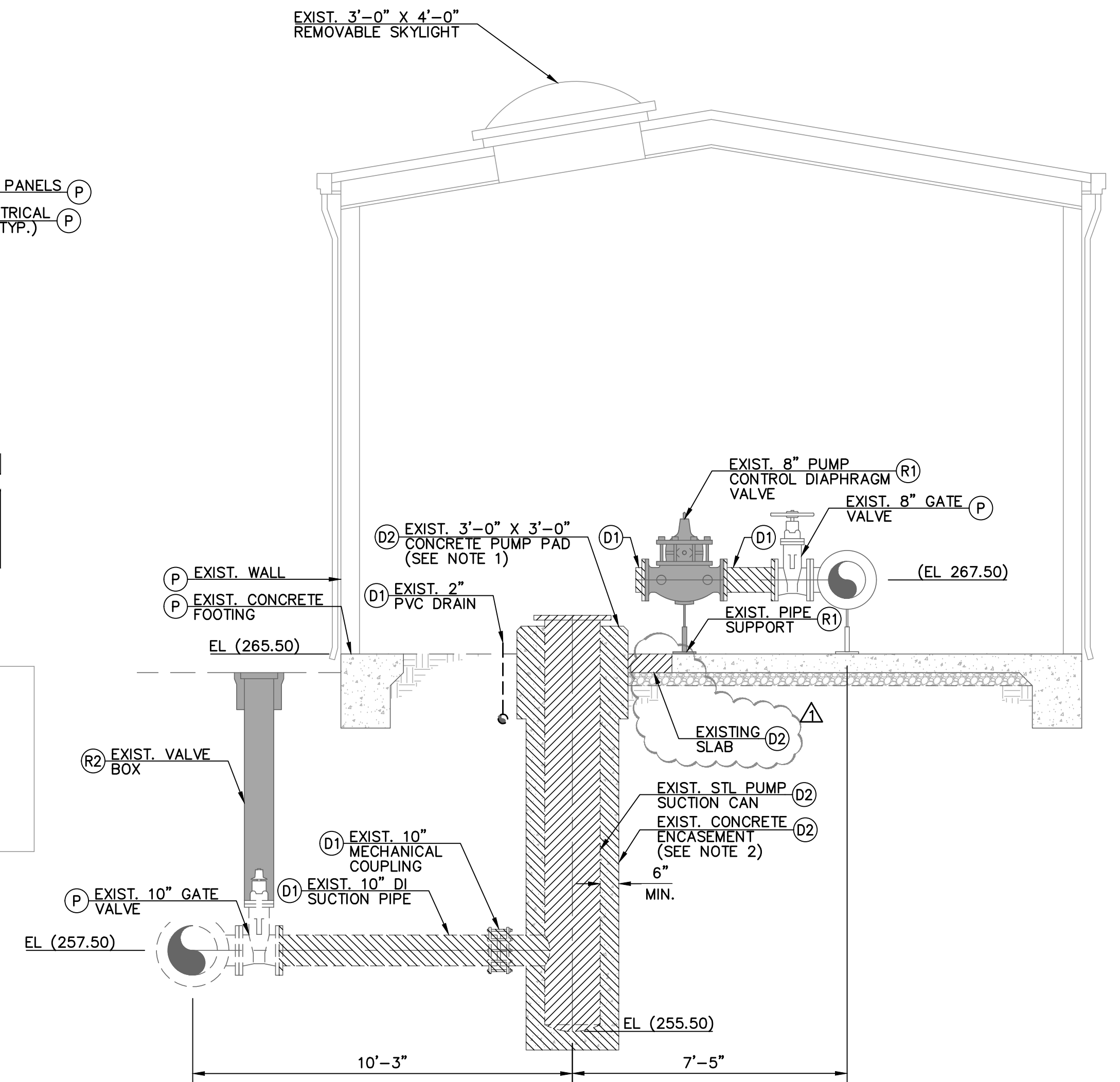
**LEGEND**

- DEMOLISH AND DISPOSE OF EXISTING CONCRETE, PIPING, AND APPURTENANCES
- SALVAGE AND REUSE EXISTING VALVE & PIPE SUPPORT
- SAWCUT EXISTING CONCRETE SLAB



**MECHANICAL DEMOLITION PLAN**

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



**SECTION A-A**

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

- NOTE:**
1. CONTRACTOR TO DEMOLISH EXISTING CONCRETE PUMP PAD PRIOR TO REMOVING CONCRETE ENCASED PUMP CAN THROUGH OPENING OF EXISTING SKYLIGHT.
  2. CONCRETE ENCASEMENT MAY NEED TO BE JACK HAMMERED TO SIZE TO REMOVE PUMP CAN THROUGH EXISTING OPENING.

THESE PLANS WERE PREPARED UNDER THE SUPERVISION OF:



DATE: 6/19/2024

REVISIONS				INITIALS	DATE
NUMBER	DESCRIPTION	DATE	DRAWN	KS	7/24
			DESIGNED	MM	7/24
			REVIEWED	JG	7/24
			SEWER		
			DRAINAGE		
			WATER		
			TRAFFIC		
			UTILITY/ELEC		
			LANDSCAPE		
			FACILITIES		
			GENERAL ENG		
			INSPECTION		
			PARKS & REC		
			AS-BUILT		

**CITY OF FULLERTON**  
**PUBLIC WORKS DEPARTMENT**

COYOTE BOOSTER PUMP STATION - PUMP CAN REPLACEMENT

CIP PROJECT 53002

**WATER IMPROVEMENTS**  
**COYOTE BOOSTER PUMP STATION PUMP CAN REPLACEMENT**  
 SITE AND DEMOLITION PLAN

APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_ CITY ENGINEER/ASSISTANT PUBLIC WORKS DIRECTOR

ACCEPTED: \_\_\_\_\_ DATE: \_\_\_\_\_ PUBLIC WORKS DIRECTOR

SCALE: AS SHOWN

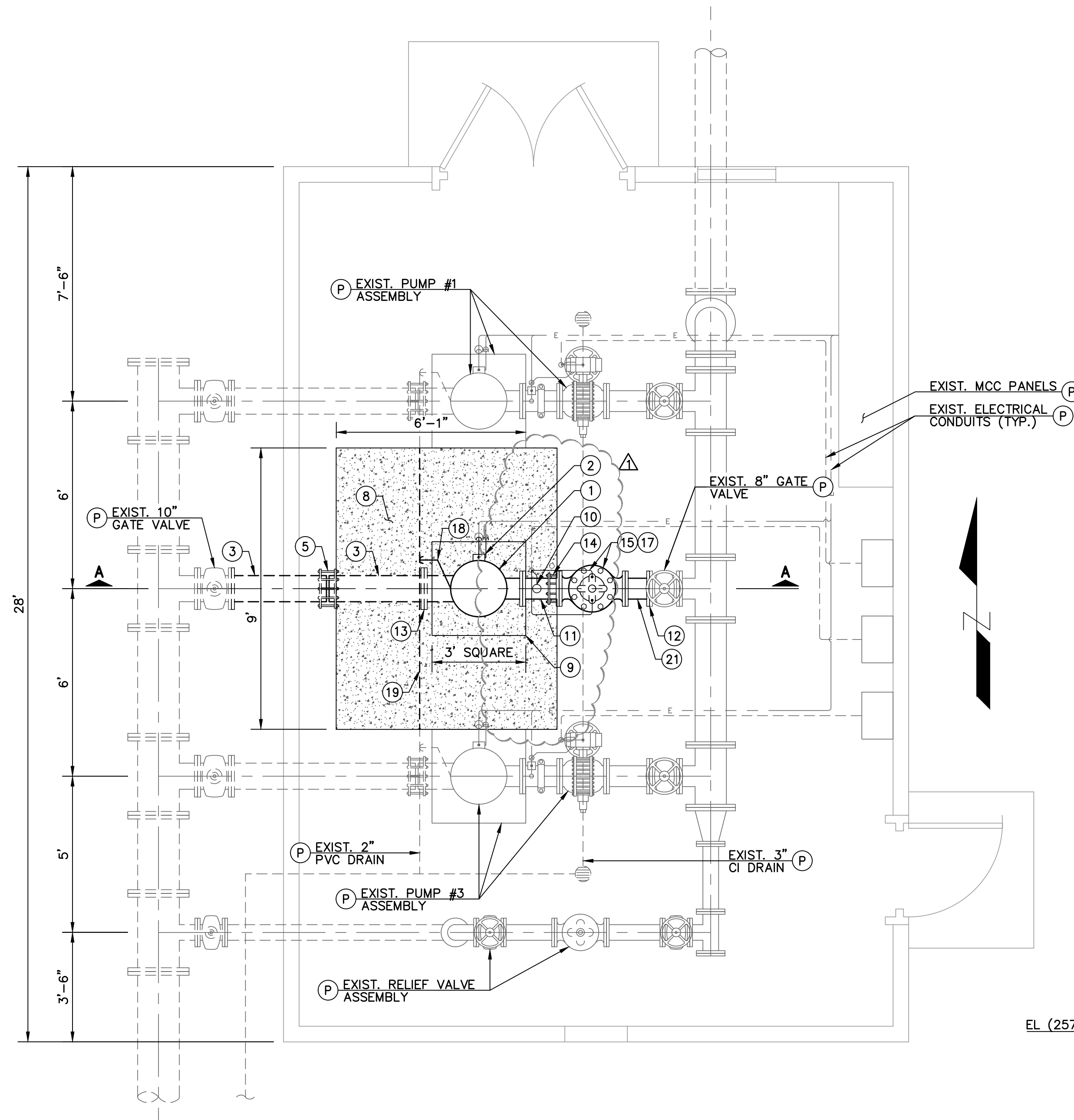
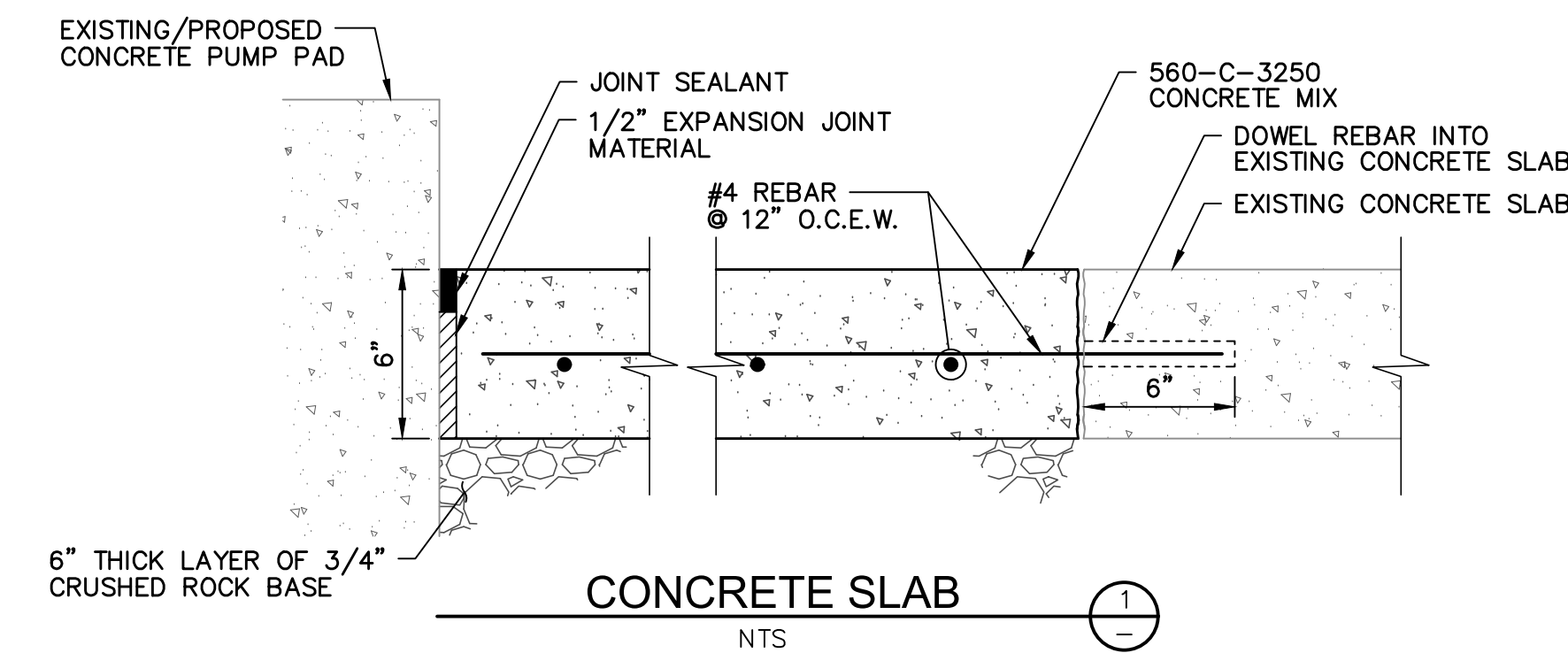
SHEET 2 of 4 SHEETS

B.M.: \_\_\_\_\_ FILE: WD40457



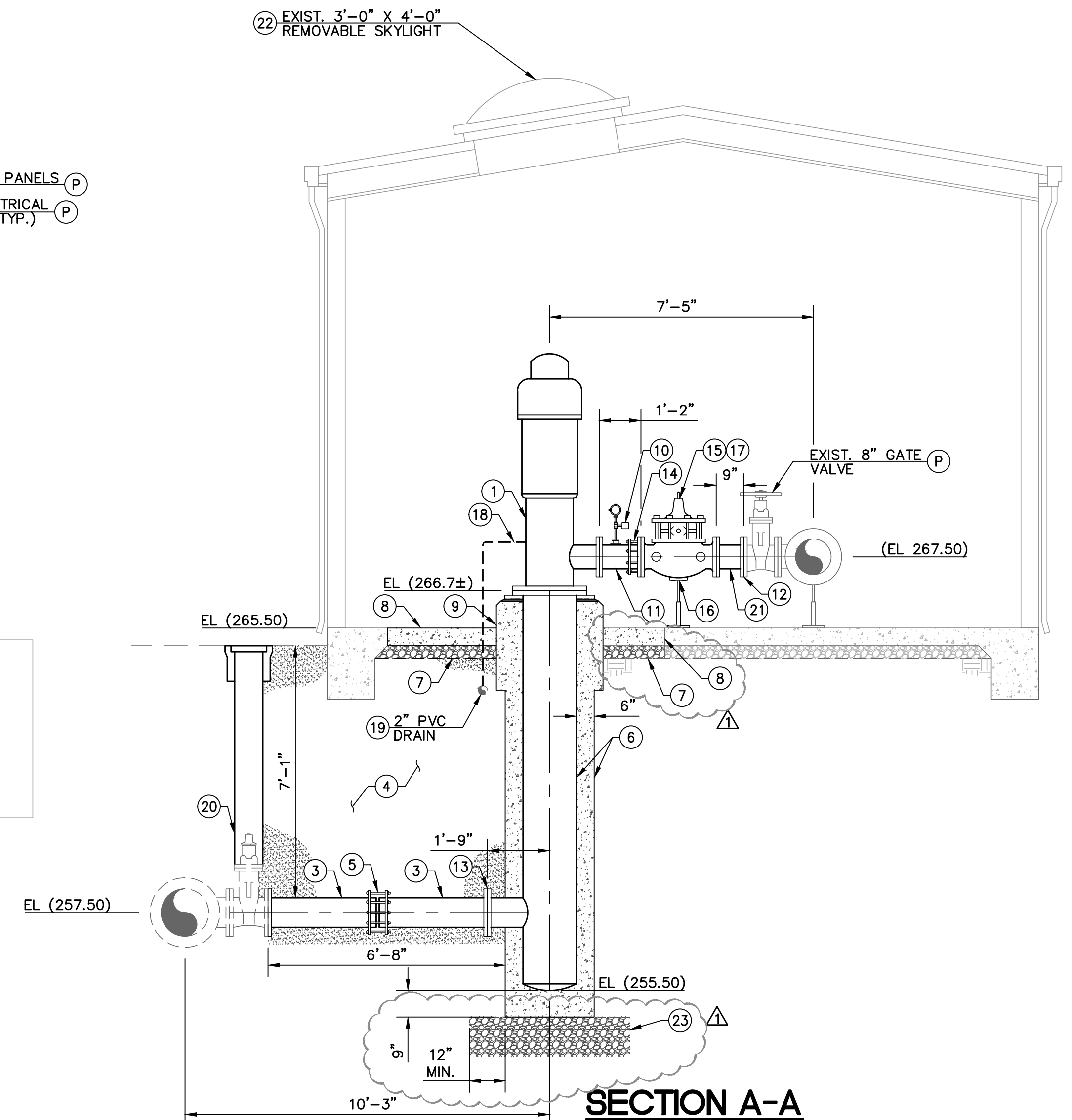
**CONSTRUCTION NOTES**

- 1 DELIVER AND INSTALL OWNER RECONDITIONED VERTICAL TURBINE PUMP, MOTOR, AND DISCHARGE HEAD (SEE NOTE 1)
- 2 RECONNECT POWER/CONTROL WIRING AND CONDUITS TO PUMP MOTOR - SEE NOTE 2 (REUSE EXISTING JUNCTION BOXES)
- 3 CONSTRUCT 10" FEXPE DI SPOOL PIECE (LENGTH AS REQUIRED)
- 4 BACKFILL WITH 1-SACK CEMENT SLURRY
- 5 CONSTRUCT 10" RESTRAINED MECHANICAL COUPLING
- 6 CONSTRUCT 18" O.D. X 3/8" WALL STL PUMP SUCTION CAN WITH 6" THICK CONCRETE ENCASEMENT AND 10" FLANGED INLET
- 7 CONSTRUCT 6" THICK LAYER OF 3/4" CRUSHED ROCK BASE
- 8 CONSTRUCT 6" THICK REINFORCED CONCRETE SLAB PER  $\frac{1}{3}$
- 9 CONSTRUCT CONCRETE PUMP PAD PER  $\frac{1}{4}$
- 10 CONSTRUCT PRESSURE GAUGE/SWITCH ASSEMBLY PER  $\frac{4}{4}$  RECONNECT EXISTING CONDUIT AND WIRING TO TRANSMITTER - SEE NOTE 2
- 11 CONSTRUCT 8" FEXPE DI SPOOL PIECE (LENGTH AS REQUIRED)
- 12 JOIN EXISTING 8" FLANGE
- 13 CONSTRUCT INSULATING FLANGE KIT PER  $\frac{5}{4}$
- 14 CONSTRUCT 8" RESTRAINED FLANGED COUPLING ADAPTER, EBAA IRON MEGAFLANGE, OR APPROVED EQUAL
- 15 INSTALL SALVAGED 8" PUMP CONTROL DIAPHRAGM VALVE
- 16 INSTALL SALVAGED PIPE SUPPORT
- 17 RECONNECT EXISTING WIRING/CONDUITS FOR LIMIT SWITCH AND SOLENOID VALVE ON SALVAGED PUMP CONTROL DIAPHRAGM VALVE - SEE NOTE 2
- 18 CONNECT PUMP DRAIN TO RECONSTRUCTED 2" PVC DRAIN
- 19 REPLACE 2" PVC DRAIN LINE IN KIND. CONTRACTOR SHALL SLOPE NEW PIPE TO ENSURE POSITIVE DRAINAGE INTO EXISTING 3" CI DRAIN PIPE
- 20 INSTALL SALVAGED VALVE CAN
- 21 CONSTRUCT 8" FEXPE DI SPOOL PIECE (LENGTH AS REQUIRED)
- 22 REMOVE EXISTING SKYLIGHT AND REINSTALL
- 23 CONSTRUCT 12" LAYER OF CRUSHED ROCK BASE
- P PROTECT IN PLACE



**MECHANICAL PLAN**

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



**SECTION A-A**

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

**NOTE:**

1. RECONDITIONED PUMP AND MOTOR ASSEMBLY IS STORED AT PROJECT SITE.
2. PROTECT IN PLACE AND SUPPORT EXISTING CONDUITS AND CONDUCTORS DURING DEMOLITION AND RECONSTRUCTION OF CONCRETE SLABS.

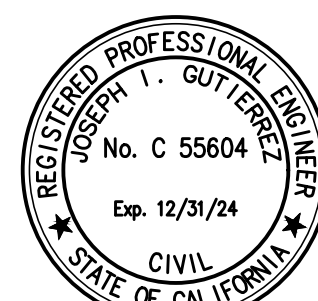
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COYOTE BOOSTER PUMP STATION - PUMP CAN REPLACEMENT  
CIP PROJECT 53002  
**WATER IMPROVEMENTS**  
**COYOTE BOOSTER PUMP STATION PUMP CAN REPLACEMENT**  
MECHANICAL PLAN, SECTION, & DETAILS

APPROVED:	ACCEPTED:
DATE: CITY ENGINEER/ASSISTANT PUBLIC WORKS DIRECTOR	DATE: PUBLIC WORKS DIRECTOR
SCALE: AS SHOWN	SHEET 3 of 4 SHEETS
B.M.:	FILE: WD40457