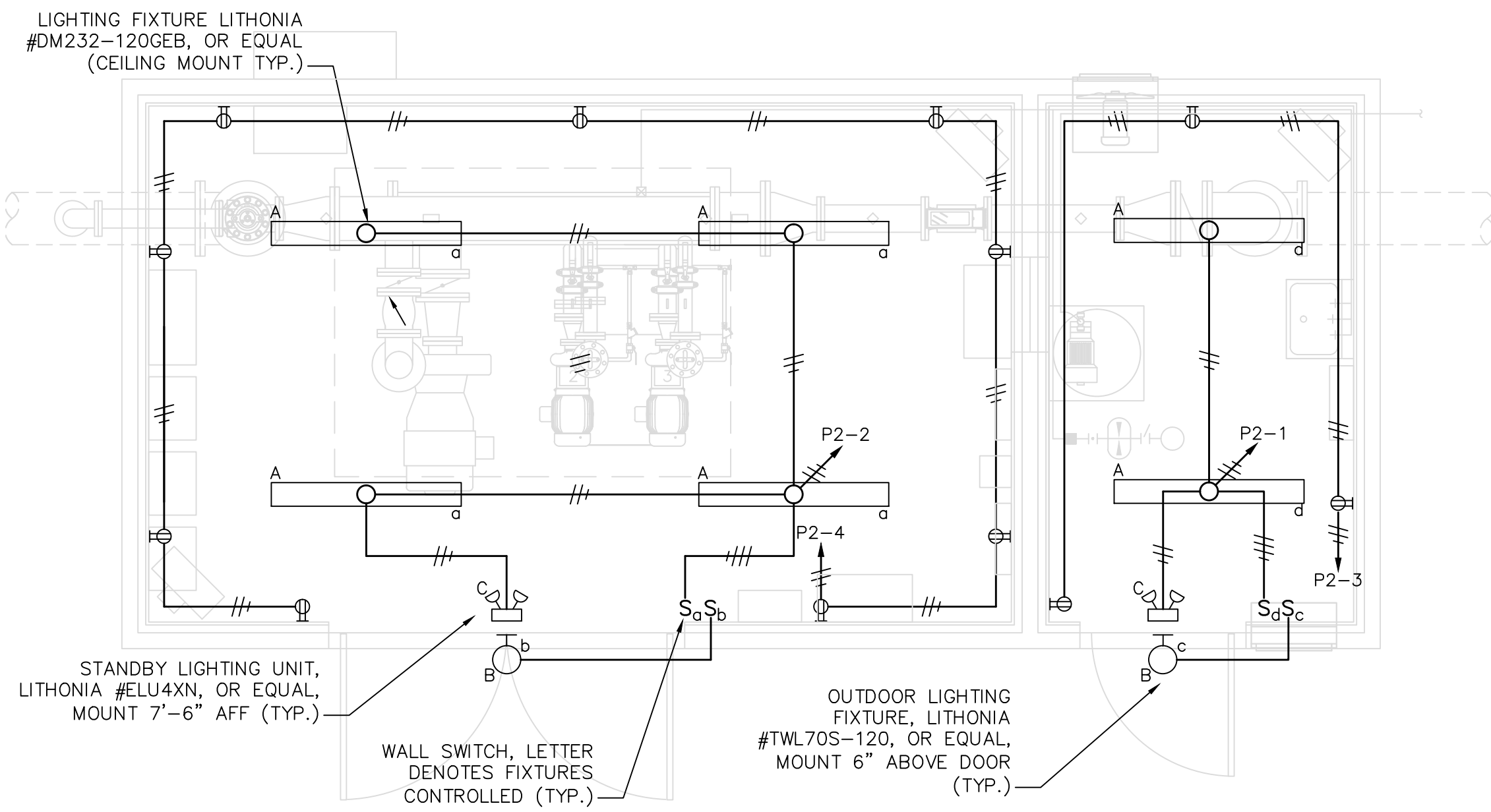


POWER PLAN
SCALE: 3/8" = 1'-0"



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

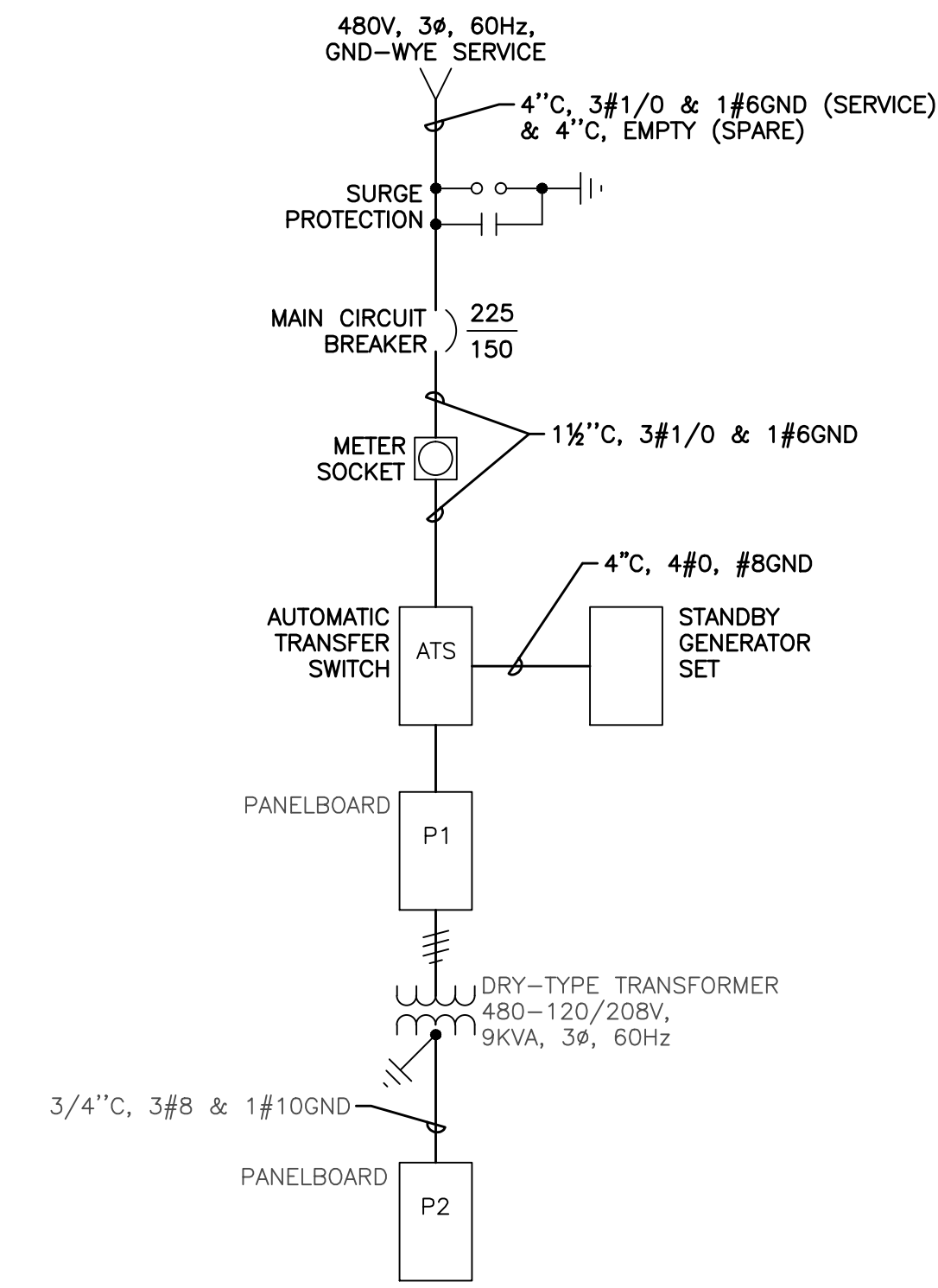
SERVICE PANEL INFORMATION

PANELBOARD P1				
SERVICE: 480V, 3Φ, 3W, 60Hz				
225 AMP MAINS				
CKT #	CIRCUIT DESCRIPTION	225 AMP MAIN LUGS ONLY		
		LOAD	BREAKER	
1	PUMP 1 CONTROLLER	50	3	100
2	PUMP 2 CONTROLLER	15	3	30
3	PUMP 3 CONTROLLER	15	3	30
4	UNIT HEATER - PUMP ROOM	10	3	30
5	UNIT HEATER - PUMP ROOM	10	3	30
6	UNIT HEATER - CHEM ROOM	5	3	15
7	PANELBOARD P2		3	80
8	AIR COMPRESSOR		1	3
9	HVAC UNIT - PUMP ROOM		3	20
10	---SPACE---		3	---
11	---SPACE---		3	---
12	---SPACE---		3	---

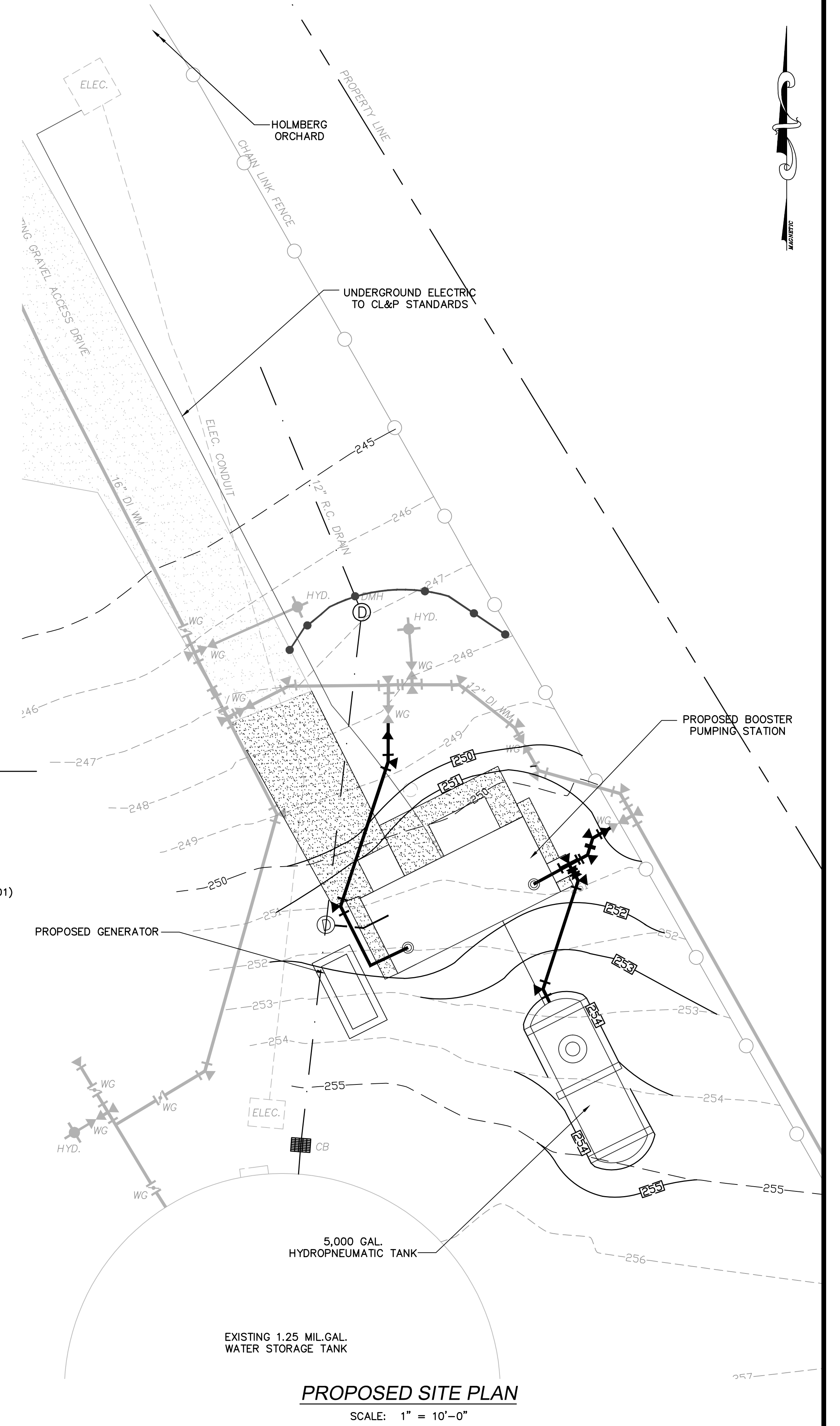
PANELBOARD P2				
SERVICE: 120/208V, 3Φ, 4W, 60Hz				
100 AMP MAINS				
CKT #	CIRCUIT DESCRIPTION	40 AMP MAIN CIRCUIT BREAKER		
		LOAD	BREAKER	
1	LIGHTING - CHEM ROOM	0.3	100	1
2	LIGHTING - PUMP ROOM	0.5	100	1
3	RECEPTACLES - CHEM ROOM - GFCI	0.6	100	1
4	RECEPTACLES - PUMP ROOM - GFCI	1.8	100	1
5	EXHAUST FAN - CHEM ROOM - STARTER	0.5	100	1
6	CHLORINE ANALYZER	0.5	100	1
7	RECEPTACLE - CHEM FEED PUMP	0.2	100	1
8	FLOW TRANSMITTER	0.5	100	1
9	DEHUMIDIFIER	0.1	100	1
10	SCADA	0.5	100	1
11	---SPACE---		1	---
12	---SPACE---		1	---
13	---SPACE---		1	---
14	---SPACE---		1	---
15	---SPACE---		1	---
16	---SPACE---		1	---

LEGEND:

- ⊕ DUPLEX RECEPTACLE
- ⊕ SINGLE RECEPTACLE
- ⊕ SOLENOID VALVE
- ⊕ MANUAL MOTOR STARTER
- ⊕ DISCONNECT SWITCH (3P, 30A, 480V)
- ⊕ THERMOSTAT WITH HOA SUBBASE (PROVIDED UNDER SECTION 15801)
- CONDUIT RUN EXPOSED
- - - CONDUIT RUN UNDERGROUND
- /// 3/4" CONDUIT WITH #12 AWG WIRES. LONG SLASH LINES = QUANTITY OF PHASE/NEUTRAL WIRES. SHORT SLASH LINES = QUANTITY OF EQUIPMENT GROUND WIRES.
- S₀ WALL SWITCH "0" DENOTES LIGHTING FIXTURES CONTROLLED
- S_{3b} WALL SWITCH, 3-WAY "b" DENOTES LIGHTING FIXTURES CONTROLLED
- ⊕ MOTOR
- ⊕ MOTORIZED DAMPER
- 225 / 200 MOLDED CASE, THERMAL-MAGNETIC CIRCUIT BREAKER UPPER NUMERAL = FRAME SIZE LOWER NUMERAL = TRIP RATING
- ⊕ ELECTRIC UNIT HEATER (5KW, 480V, 3Φ)
- ⊕ LIGHTING FIXTURE "A" DENOTES FIXTURE TYPE "0" DENOTES SWITCH CONTROL
- ⊕ INTRUSION ALARM DOOR SWITCH
- ⊕ INTRUSION ALARM MOTION DETECTOR
- ⊕ SMOKE DETECTOR
- ⊕ HEAT DETECTOR
- ⊕ FIRE ALARM MANUAL STATION

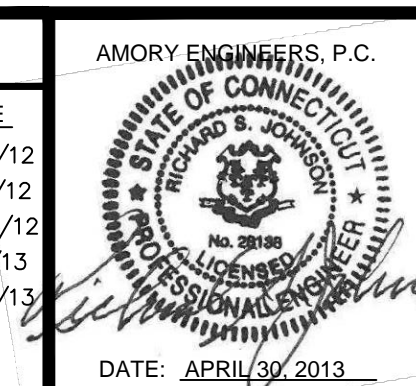


SINGLE LINE DIAGRAM



PROPOSED SITE PLAN
SCALE: 1" = 10'-0"

NO.	ITEM	DATE
1	REDESIGN AS NEW BPS	9/27/12
2	GU COMMENTS / TWO BUILDINGS	11/6/12
3	CT DPH SUBMITTAL	12/17/12
4	ISSUED FOR BIDDING	3/7/13
5	ISSUED FOR DPH REVIEW / REBID	4/30/13



AMORY ENGINEERS, P.C.
DUXBURY, MASSACHUSETTS

DRAWN BY: PGB
DESIGNED BY: RSJ/PGB
CHECKED BY: RSJ

FILE NAME: AS SHOWN
JOB NO.: 3331
DATE: 9/27/12

SCALE: AS SHOWN
DWG. NO.: 1653
CONTRACT: 2013-03 (REBID)

WATER POLLUTION CONTROL AUTHORITY
LEDYARD, CONNECTICUT

CONSTRUCTION OF BOOSTER PUMPING STATION TO SERVE ALJEN HEIGHTS WATER EXTENSION

PLANS, DIAGRAM AND LEGEND

ELECTRICAL SHEET 6 OF 5