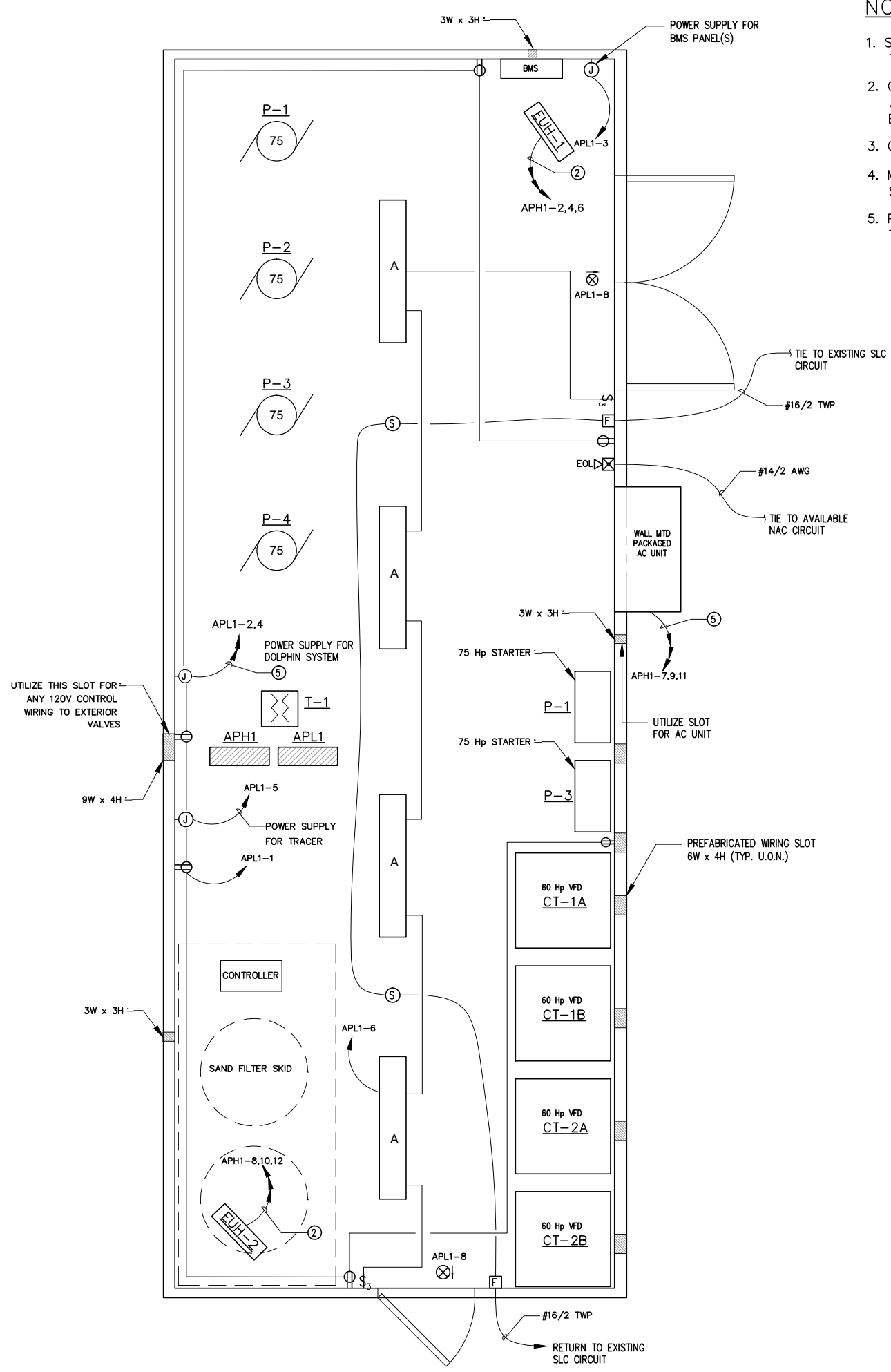
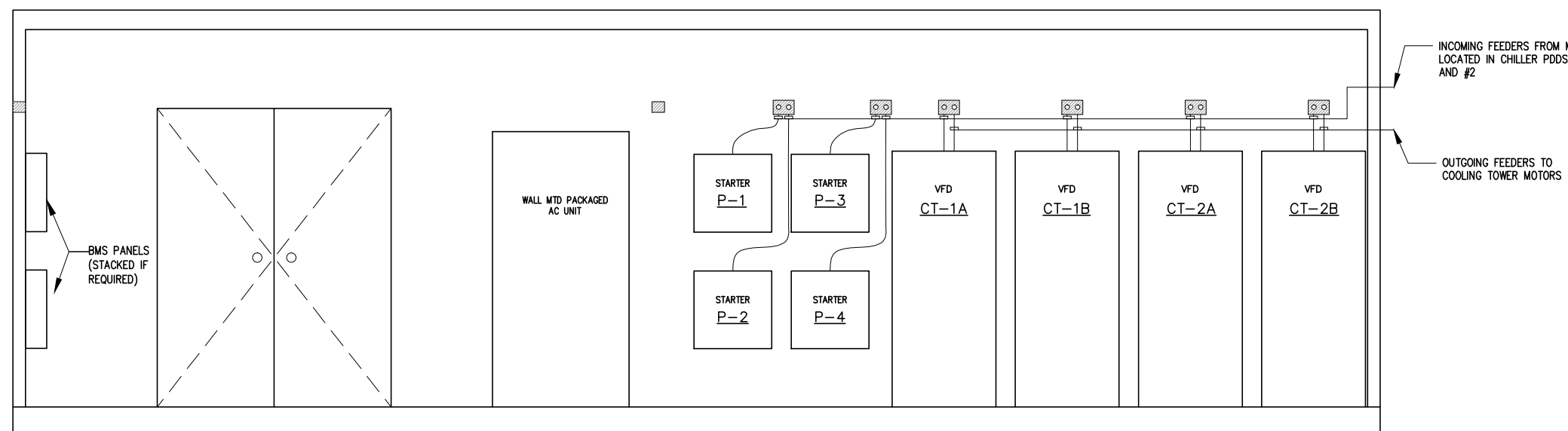


PUMP ROOM EQUIPMENT LAYOUT WITH OUTGOING FEEDERS
SCALE: 1/2" = 1'-0"



PUMP ROOM LIGHTING, POWER, AND FIRE ALARM PLAN
SCALE: 1/2" = 1'-0"



ELEVATION A-A STARTERS AND VFDs ON WALL
SCALE: 1/2" = 1'-0"

NOTES:

- SEE ONE-LINE DIAGRAM SHEET E1.0 FOR SYSTEM CONNECTIONS TO EXISTING POWER SYSTEM.
- GROUND AND BOND SEPARATELY DERIVED SYSTEM PER NEC ARTICLE 250. MAINTAIN WORKING CLEARANCE ABOUT ELECTRICAL EQUIPMENT AS REQUIRED IN NEC ARTICLE 110.
- CONDUCTORS SHOWN WITHOUT SIZE TYPE ARE TYPE 1.
- MATCH LIGHT FIXTURES TO EXISTING PROJECT (2) LAMP FLUORESCENT SURFACE INDUSTRIAL TYPES WITH PROTECTIVE LENSES.
- PROVIDE FIRE DETECTION AND NOTIFICATION AS INDICATED. CONNECT TO EXISTING FIRE ALARM SYSTEM.

CONDUIT AND CONDUCTOR SCHEDULE (COPPER)					
TYPE	AMP(S)	CONDUIT SIZE(S)	CONDUCTOR QTY	CONDUCTOR SIZE(S)	NOTES
1	20	0.75	2	12	12
2	20	0.75	3	12	12
3	20	0.75	4	12	12
4	30	0.75	2	10	10
5	30	0.75	3	10	10
6	30	0.75	4	10	10
7	40	0.75	2	8	10
8	40	0.75	3	8	10
9	40	0.75	4	8	10
10	55	0.75	2	6	8
11	55	0.75	3	6	8
12	55	1	4	6	8
13	70	1	2	4	8
14	70	1	3	4	8
15	70	1.25	4	4	8
16	85	1.25	2	3	8
17	85	1.25	3	3	8
18	85	1.25	4	3	8
19	95	1.25	3	2	6
20	95	1.25	4	2	6
21	110	1.25	3	1	6
22	110	1.5	4	1	6
23	150	1.5	3	1/0	6
24	150	2	4	1/0	6
25	175	2	3	2/0	6
26	175	2	4	2/0	6
27	200	2	3	3/0	6
28	200	2	4	3/0	6
29	230	2.5	3	4/0	4
30	230	2.5	4	4/0	4
31	255	2.5	3	250	4
32	255	2.5	4	250	4
33	310	2.5	3	350	3
34	310	3	4	350	3
35	380	3	3	500	3
36	380	4	4	500	3
37	400	2 EA 2	3	3/0	3
38	400	2 EA 2	4	3/0	3
39	420	3	2	600	2
40	420	4	4	600	2
41	460	2 EA 2	3	4/0	2
42	460	2 EA 2.5	4	4/0	2
43	510	2 EA 2.5	3	250	1
44	510	2 EA 2.5	4	250	1
45	620	2 EA 2.5	3	350	1/0
46	620	2 EA 3	4	350	1/0
47	760	2 EA 3	3	500	1/0
48	760	2 EA 4	4	500	1/0
49	820	2 EA 3	3	600	2/0
50	820	2 EA 4	4	600	2/0
51	855	3 EA 2.5	3	300	2/0
52	855	3 EA 3	4	300	2/0
53	1000	3 EA 3	3	400	2/0
54	1000	3 EA 3	4	400	2/0
55	1140	3 EA 3	3	500	3/0
56	1140	3 EA 4	4	500	3/0
57	1240	4 EA 2.5	3	350	3/0
58	1240	4 EA 3	4	350	3/0
59	1260	3 EA 3	3	600	3/0
60	1260	3 EA 4	4	600	3/0
61	1675	5 EA 3	4	400	4/0
62	1680	4 EA 4	4	600	4/0
63	2010	6 EA 3	4	400	250
64	2100	5 EA 4	4	600	250
65	2500	6 EA 4	4	600	350
66	2660	7 EA 4	4	500	350
67	2940	7 EA 4	4	600	400
68	3040	8 EA 4	4	500	400
69	4180	11 EA 4	4	500	500
70	4200	10 EA 4	4	600	500

NOTES:
 1) CONDUCTOR SIZED USING NEC TABLE 310-16; 600EG C UP TO #1AWG PER NEC 110.14(C)(1)(A);
 2) SIZED USING NEC TABLE 250.122
 3) CONDUIT SIZED FOR THIN OR THIN OR THIN-2 IN RNC (SCH 40)

ELECTRICAL SYMBOLS	
	DUPLEX RECEPTACLE
	GFI RECEPTACLE
	WEATHER PROOF RECEPTACLE
	JUNCTION BOX
	MOTOR
	SWITCH
	THREE WAY SWITCH
	EXIT SIGN
	REMOTE EMERGENCY LIGHT
	LIGHTING CONTACTOR
	LIGHTING MANUAL CONTROL
	FIRE ALARM CONTROL PANEL
	ANNUNCIATOR PANEL
	FIRE ALARM POWER SUPPLY
	FIRE ALARM - CONTROL MODULE
	FIRE ALARM - PULL STATION
	FIRE ALARM - FIRE DAMPER
	FIRE ALARM - DUCT DETECTOR
	FIRE ALARM - HORN / STROBE
	FIRE ALARM - HORN
	FIRE ALARM - STROBE
	TAMPER SWITCH
	FLOW SWITCH
	HEAT DETECTOR
	SMOKE DETECTOR
	MAGNETIC DOOR HOLDER
	3 CIRCUIT, 4 WIRE, COMMON NEUTRAL, #12'S
	2 CIRCUIT, 3 WIRE, COMMON NEUTRAL, #12'S
	1 CIRCUIT, 2 WIRE, #12'S