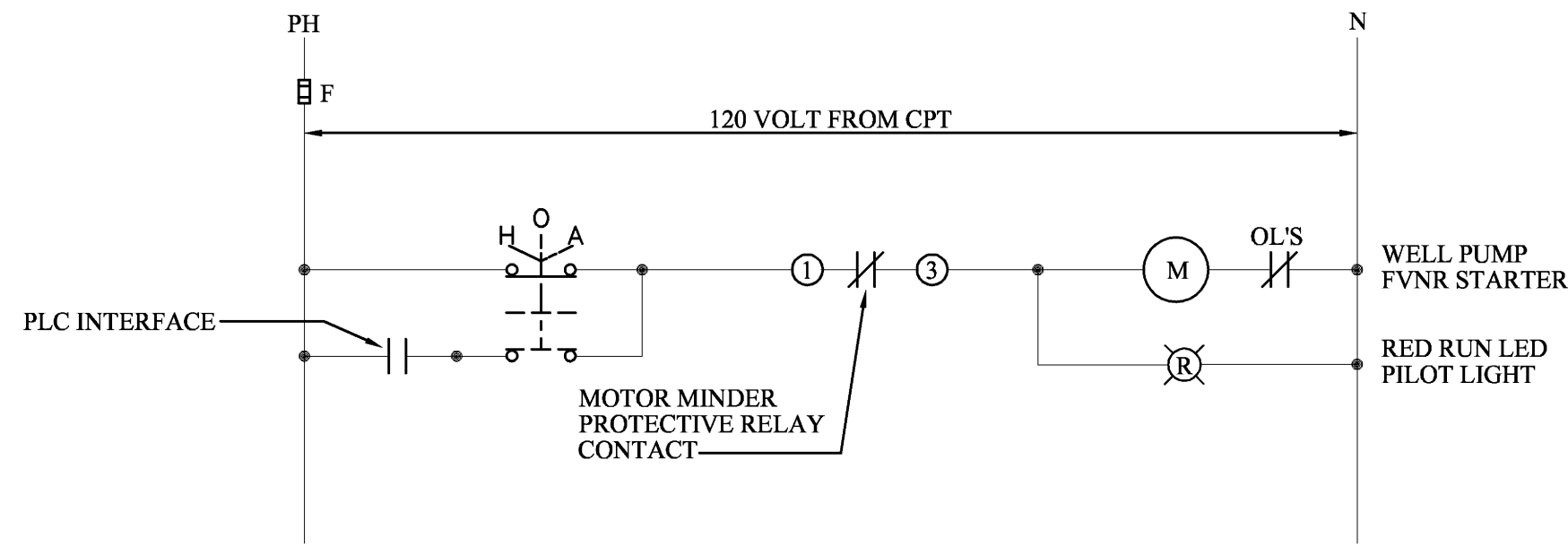
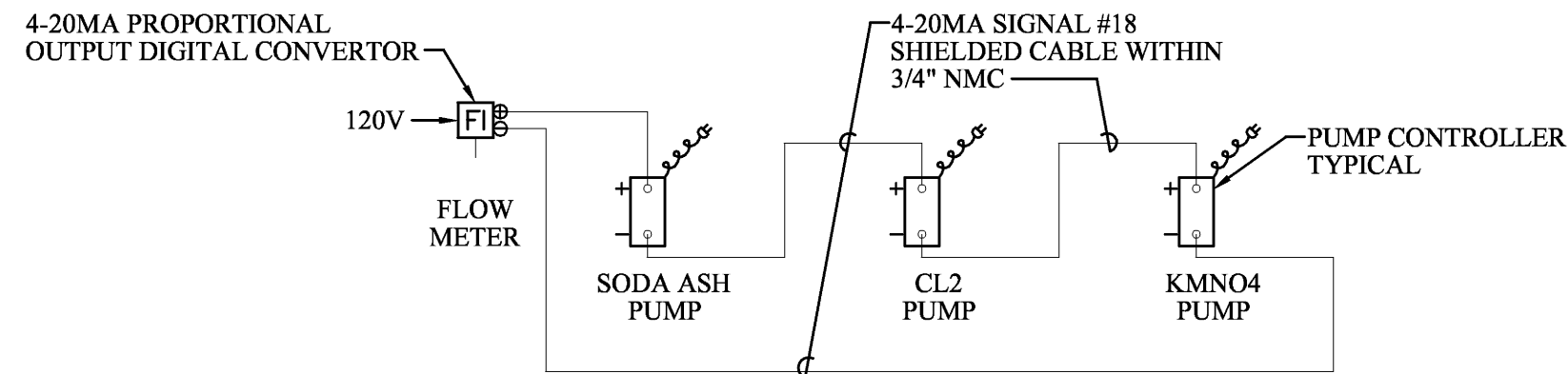




WELL PUMP #2 & #3 CONTROL DIAGRAM



CHEMICAL FEED PUMPS CONTROL DIAGRAM

PANEL "WT" SCHEDULE

PANELBOARD CHARACTERISTICS:
VOLTS: 120/240
PHASES: 3
WIRES: 3
SOLID NEUTRAL, GROUND BAR

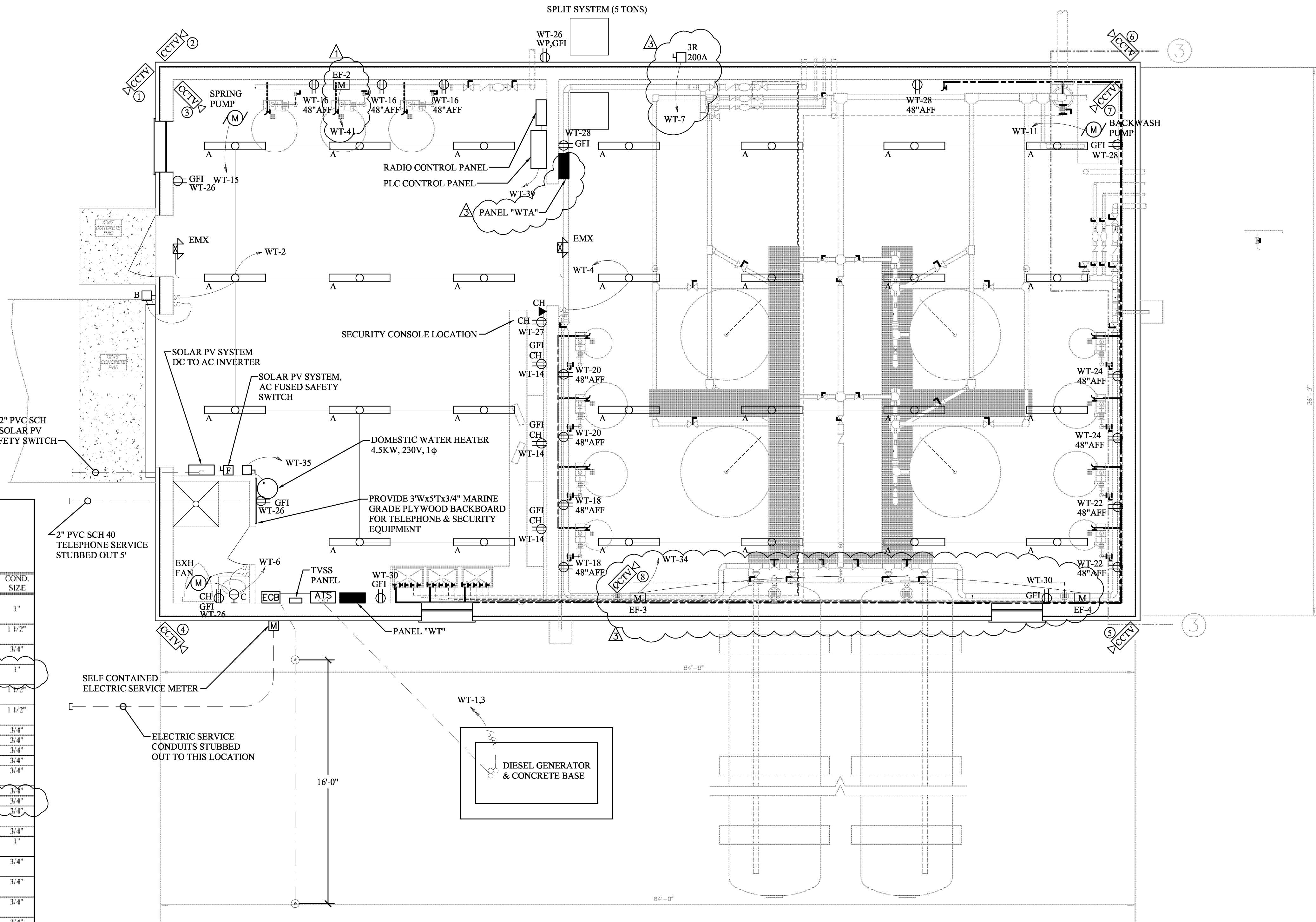
PHASE TO PHASE VOLTS: 240
PHASE TO NEUT. VOLTS: 120
400 AMP MAIN LUGS ONLY
MINIMUM SHORT CIRCUIT RATING: 18,000 RMS SYM AMPS
WATER TREATMENT

CKT. NO.	POLE NO.	DESCRIPTION	LOAD TYPE	CONN. KVA	CONN. AMPS	BREAKER	NO. & WIRE SIZE	COND. SIZE
1	1	GENERATOR BATTERY CHARGER	E	1.0	8.3	1	20 10 10	1"
3	3	GENERATOR BLOCK HEATER	E	2.0	8.3	2	10 - 12	1"
7	7	PACKAGE RTU-1, 5 TONS, 18KW	M	25.8	107.5	2	150 1/0 - 6	1 1/2"
11	11	BACKWASH PUMP - 3.0HP	E	3.9	16.3	2	40 10 - 10	3/4"
15	15	WATER PUMP - 1 1/2 HP	E	2.3	9.6	2	30 10 - 10	1"
17	17	WELL PUMP #2 - 5HP	E	6.4	26.7	2	50 10 - 10	1 1/2"
23	23	WELL PUMP #3 - 5 HP	E	6.4	26.7	2	50 10 - 10	1 1/2"
27	27	SECURITY SYSTEM - RECEPTACLE	E	1.0	8.3	1	20 12 12	3/4"
29	29	FLOW METER	E	0.3	2.5	1	20 12 12	3/4"
31	31	TANK LEVEL INSTRUMENT	E	0.3	2.5	1	20 12 12	3/4"
33	33	SEPTIC DOSING PUMP	E	0.9	7.5	1	20 12 12	3/4"
35	35	DOMESTIC WATER HEATER	M	4.5	18.8	2	30 10 - 10	3/4"
37	37	PLC & RADIO CONTROL PANEL	E	1.0	8.3	1	20 12 12	3/4"
39	39	EXHAUST FAN EF-2	E	0.5	4.2	1	20 12 12	3/4"
41	41	LIGHTING - LAB	L	1.0	8.3	1	20 12 12	3/4"
43	43	LIGHTING - LAB	L	1.5	10.8	1	20 12 12	3/4"
45	45	LIGHTING & FAN TOILET	L	1.0	8.3	1	20 12 12	3/4"
47	47	SITE LIGHTING	L	1.5	6.3	2	20 8 - 12	1"
49	49	RECEPTACLES - LAB ROOM	R	1.0	8.3	1	20 12 12	3/4"
51	51	RECEPTACLES - LAB	R	1.0	8.3	1	20 12 12	3/4"
53	53	RECEPTACLES - MNO4, CL2, SODA ASH	R	1.5	12.5	1	20 12 12	3/4"
55	55	RECEPTACLES - KMNO4, CL2	R	1.0	8.3	1	20 12 12	3/4"
57	57	RECEPTACLES - SODA ASH SPARE TANK	R	1.0	8.3	1	20 12 12	3/4"
59	59	RECEPTACLES - KMNO4, CL2	R	1.0	8.3	1	20 12 12	3/4"
61	61	RECEPTACLES - SODA ASH SPARE TANK	R	1.0	8.3	1	20 12 12	3/4"
63	63	RECEPTACLES - TOILET & MISC.	R	0.5	4.2	1	20 12 12	3/4"
65	65	RECEPTACLES - TANK ROOM	R	0.5	4.2	1	20 12 12	3/4"
67	67	RECEPTACLES - MISC.	R	0.5	4.2	1	20 12 12	3/4"
69	69	HEAT TRACING @ TANK	E	1.2	10.0	1	* 20 12 12	3/4"
71	71	EF-3 & EF-4	E	1.0	8.3	1	20 12 12	3/4"
73	73	PANEL WTA				2	100 1 6	1 1/4"
75	75	SECURITY SYSTEM INTRUSION BREAKER				2	100 6 6	1 1/2"
77	77	4.5KW SYSTEM						
TOTALS				72.3	300.8	301.7	6	

* GROUND FAULT BREAKER

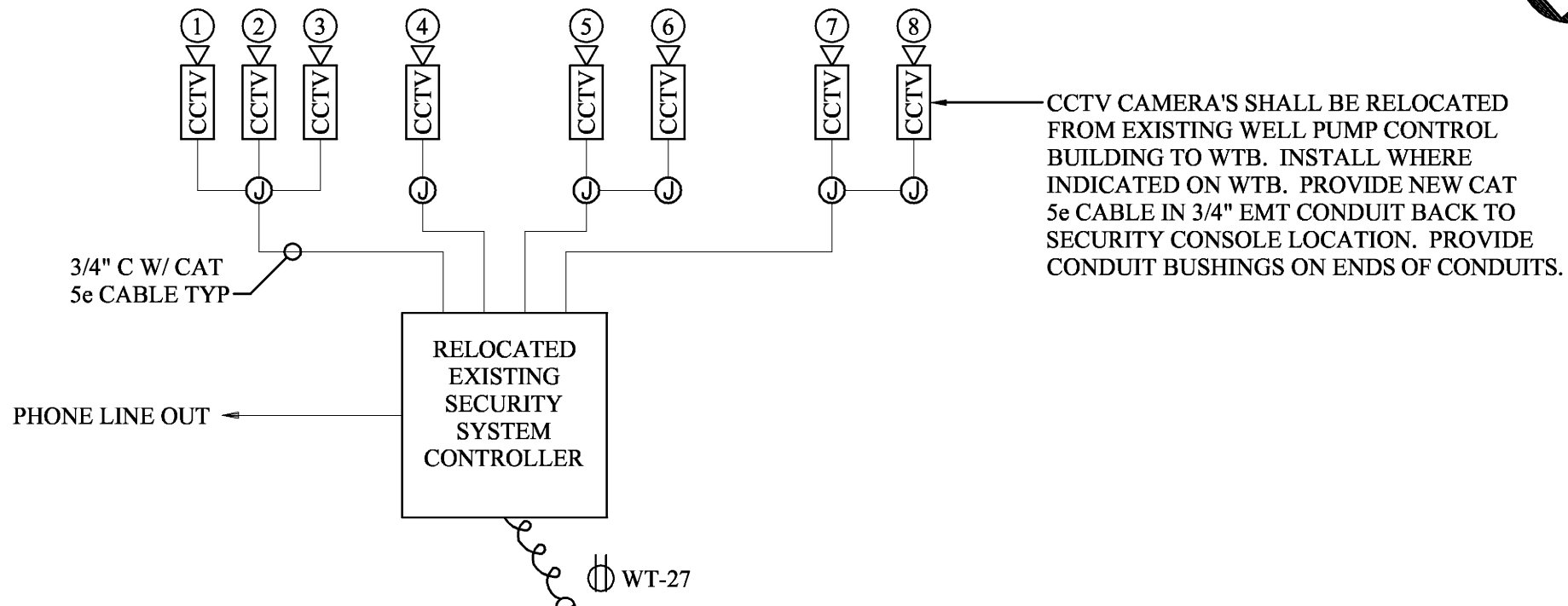
LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG NUMBER	FIXTURE VOLTAGE	No.	LAMPS TYPE	MOUNTING	REMARKS
A	LITHONIA	DM-3-32-MVOLT-GE8101S	120	3	F32T8/SPX35	SURFACE	
B	LITHONIA	TWS-42TRT-MVOLT-LPI	120	1	CF42TRT	WALL	EXTERIOR @ DOORS
C	LITHONIA	WP-2-17-MVOLT-WHITE	120	2	F17T8-24"	WALL	TOILET
SLI	LITHONIA	FIXTURE: KAD-400M-R4-240-SPD04-LPL-DF-PEI-DDBT	240	1	400WMH	POLE	METAL HALIDE
		POLE: COMPOSITE DIRECT BURY-RTFDB-30-8-3X-DM I9-DDBT	-	-	-	-	25" NM. MH
EMX	LITHONIA	LHQM-S-W-1-R-120-N	120	2+		WALL	COMBINATION EXIT/EMERG



WATER TREATMENT BUILDING "WTB" POWER & LIGHTING PLAN

SCALE: 1/4" = 1'-0"



SECURITY SYSTEM RISER DIAGRAM

*ENGINEERING & SURVEYING >> PLANNING

HURT & PROFFITT
INCORPORATED

2524 LANGHORNE ROAD
LYNCHBURG VA 24501
800.242.6906 TOLL FREE
434.847.7796 MAIN
434.847.0047 FAX

WATER TREATMENT BUILDING ELEC. PLAN-ASBUILT
FOR
TOWN OF BOONES MILL WATER SYSTEM REPLACEMENT
TOWN OF BOONES MILL, BOONE DISTRICT, FRANKLIN COUNTY, VA

PROJECT NO. 20080815
G.L. NO. 297-03-A3
FILE NO. G-12675
DATE: 09/24/09
DRAWN BY: WKH/RNM
CHECKED BY: WKH/BLC

HURT & PROFFITT

SHEET NO.
E2