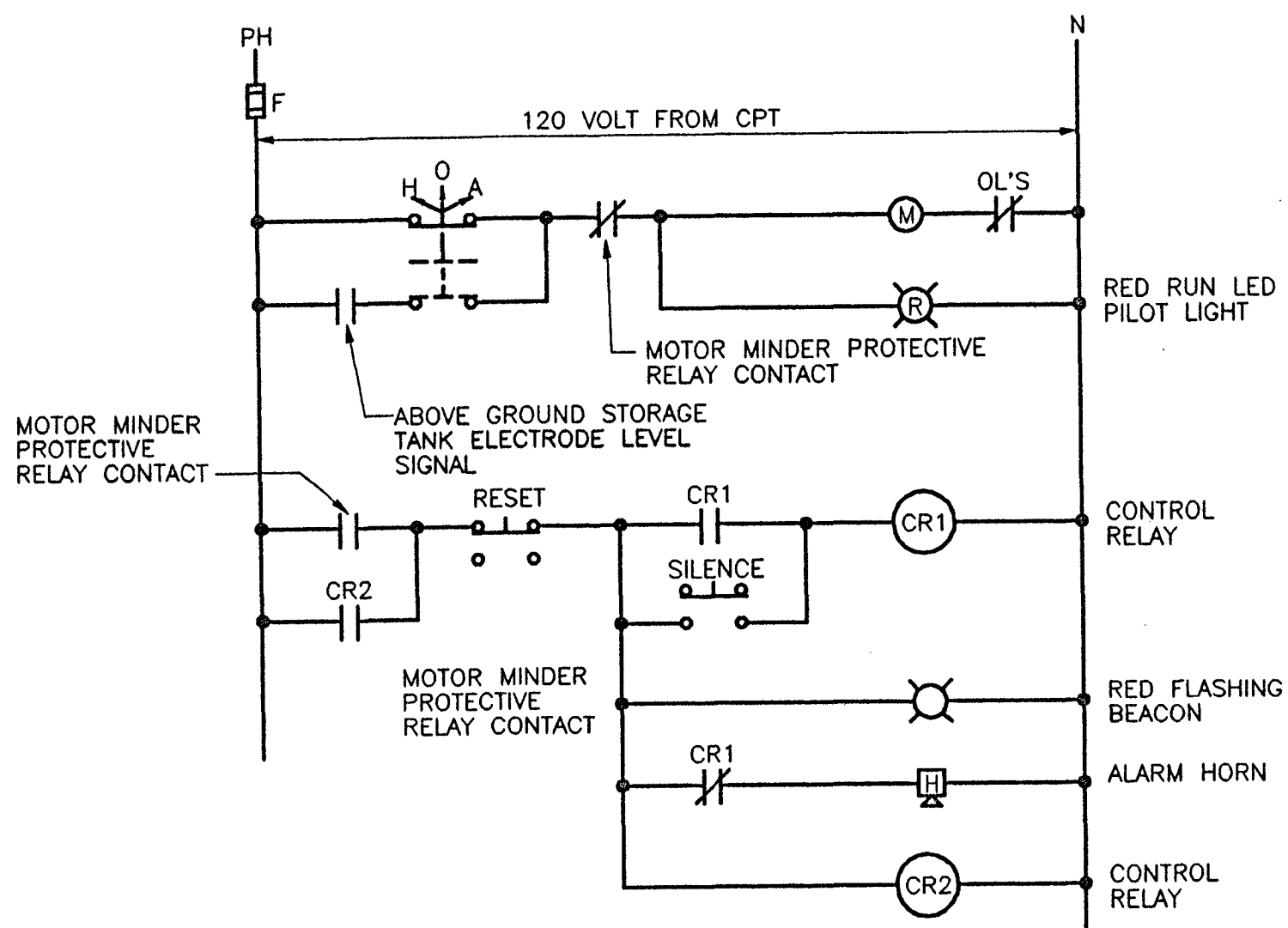
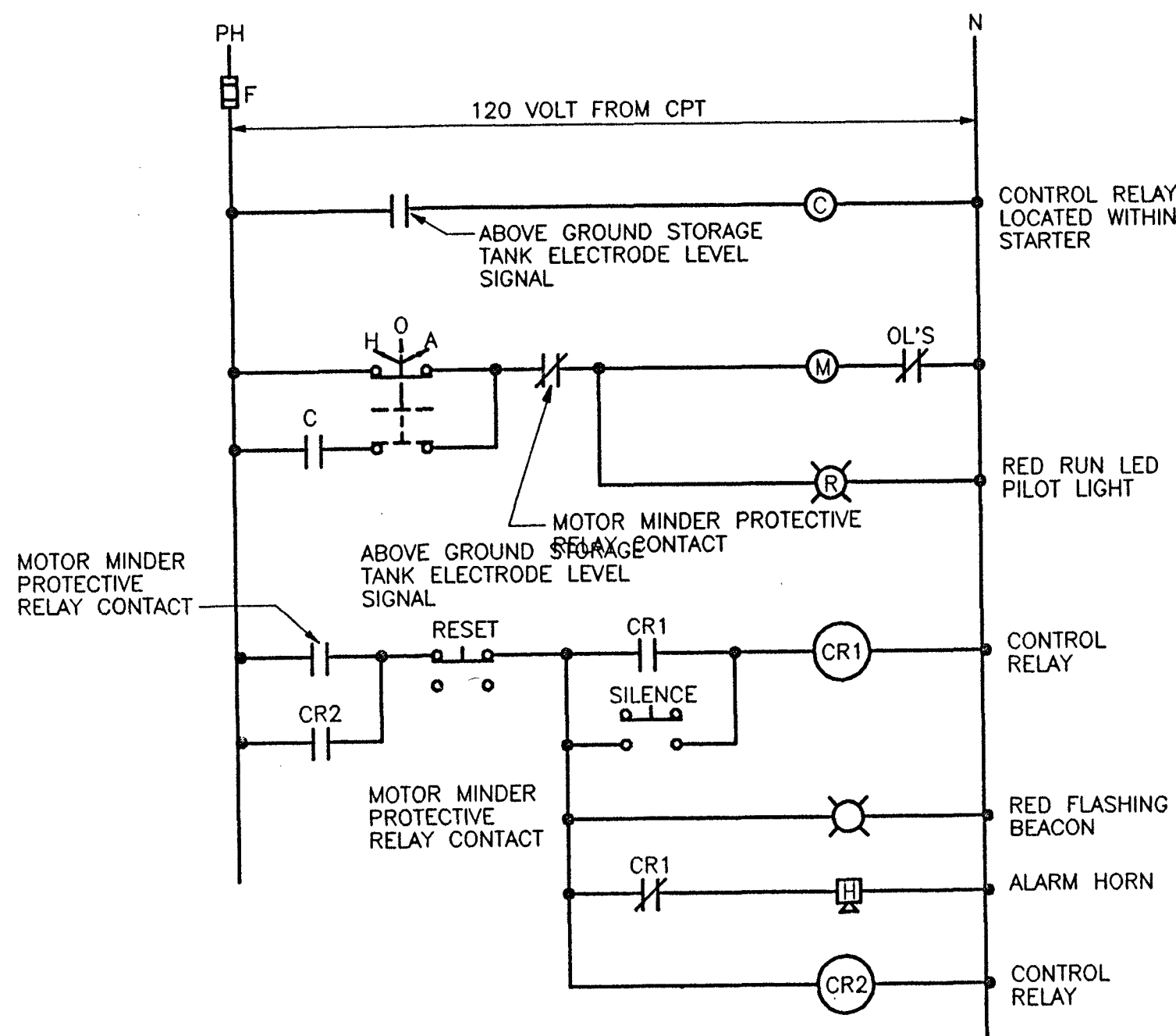


SERVICE ENTRANCE PANEL "L" SCHEDULE												
120/240 VOLTS, 1 PHASE, 3 WIRES, SOLID NEUTRAL, GROUND BAR; 150 AMP MAIN BREAKER, 200 AMP BUS PANELBOARD MINIMUM SHORT CIRCUIT RATING 10,000 SYM RMS AMPS												
CKT. NO.	POLE NO.	DESCRIPTION	CONN. KVA	CONN AMPS		BREAKER			NUMBER & WIRE SIZE			CONDUIT SIZE
				A	B	P	AF	AT	PHASE	NEUT.	EGG	
1	1	WELL PUMP #1 - 1.5HP	2.3	10.0		2	100	30	8	-	10	1"
	3				10.0				8			
5	5	SPARE				2	100	30		-	-	-
	7											
9	9	UNIT HEATER	5.0	20.8		2	100	30	10	-	10	3/4"
	11				20.8				10			
13	13	EXHAUST FAN	0.7	5.8		1	100	20	12	12	12	3/4"
	15				10.5				12			
15	17	PACKAGED HEAT PUMP AIR CONDITIONING UNIT	2.4		10.5	2	100	15	12	-	12	3/4"
	19								12			
19	19	MOTOR MINDER CONTROL CKT				1	100	20	12	12	12	3/4"
	21											
21	21	SPARE				2	100	20				
	23											
25	25	SPACE AND BUS				1	100					
	27											
27	27	SPACE AND BUS				1	100					
	29											
29	29	SPACE AND BUS				1	100					
	31											
31	31	SPACE AND BUS				1	100					
	33											
33	33	SPACE AND BUS				1	100					
	35											
35	35	SPACE AND BUS				1	100					
	37											
37	37	SPACE AND BUS				1	100					
	39											
39	39	SPACE AND BUS				1	100					
	41											
41	41	SPACE AND BUS				1	100					
	2											
2	2	LAB TABLE RECEPTACLE				1	100	20	12	12	12	3/4"
	4											
4	4	LAB TABLE RECEPTACLE				1	100	20	12	12		
	6											
6	6	RECEPTACLES				1	100	20	12	12	12	3/4"
	8											
8	8	RECEPTACLES				1	100	20	12	12		
	10											
10	10	RECEPTACLE, CHEMICAL FEED PUMPS				1	100	20	12	12	12	3/4"
	12											
12	12	RECEPTACLE, CHEMICAL FEED PUMPS				1	100	20	12	12	12	3/4"
	14											
14	14	LIGHTING				1	100	20				
	16											
16	16	SPARE				1	100	20				
	18											
18	18	SPARE				1	100	20				
	20											
20	20	SPARE				1	100	20				
	22											
22	22	SPARE				1	100	20				
	24											
24	24	SPARE				1	100	20				
	26											
26	26	SPARE				1	100	20				
	28											
28	28	SPACE AND BUS				1	100					
	30											
30	30	SPACE AND BUS				1	100					
	32											
32	32	SPACE AND BUS				1	100					
	34											
34	34	SPACE AND BUS				1	100					
	36											
36	36	SPACE AND BUS				1	100					
	38											
38	38	SPACE AND BUS				1	100					
	40											
40	40	SPACE AND BUS				1	100					
	42											
42	42	SPACE AND BUS				1	100					

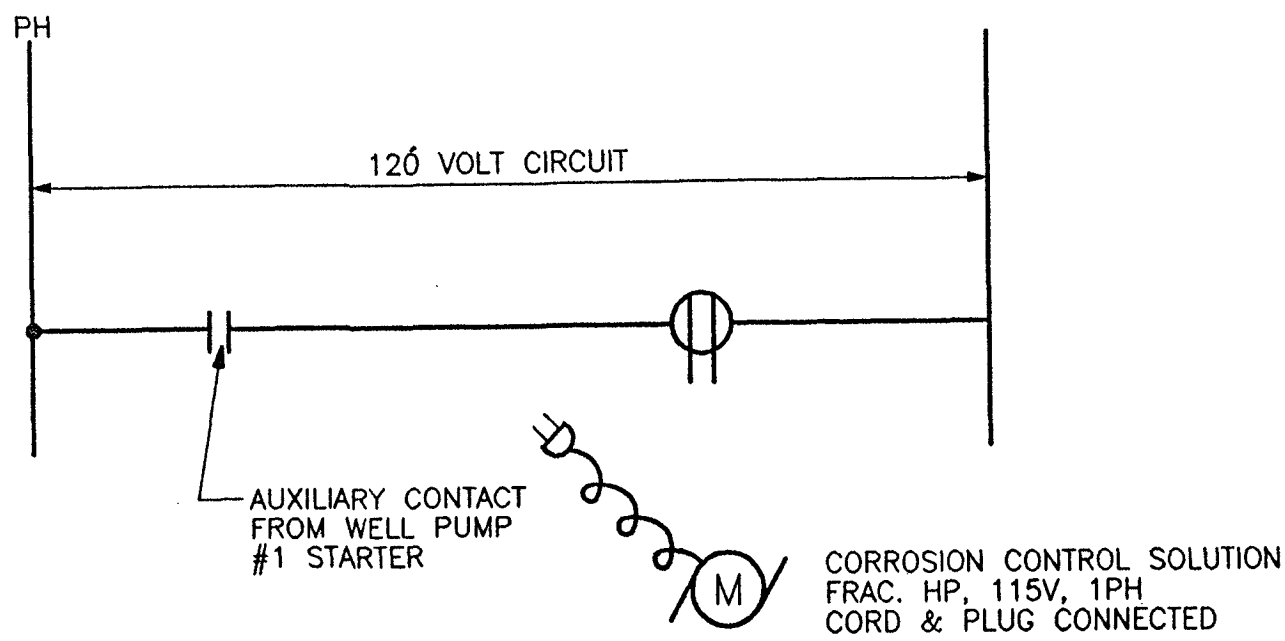
LIGHTING FIXTURE SCHEDULE						
TYPE	MANUFACTURER	CATALOG NUMBER	FIXTURE VOLTAGE	LAMPS NUMBER	LAMPS TYPE	MOUNTING
A	LITHONIA	EJ-2-40-120-CW	120	2	40W-T12	SURFACE
B	LITHONIA	TWL-70S-120-DBL-PE	120	1	70W HPS	WALL



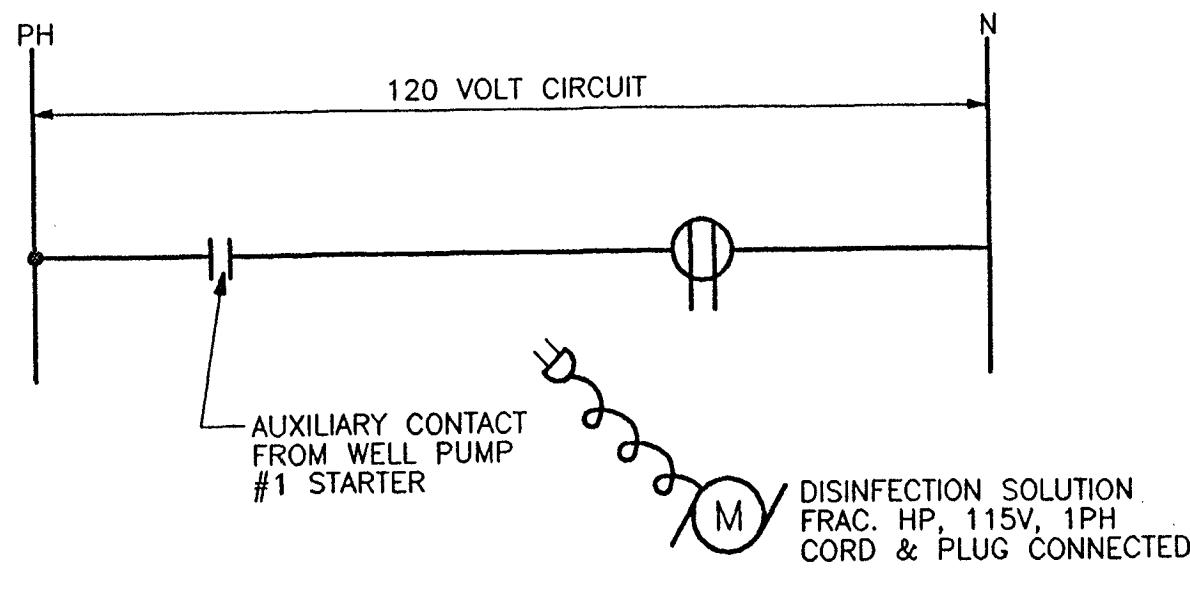
WELL PUMP #1 CONTROL DIAGRAM
NO SCALE



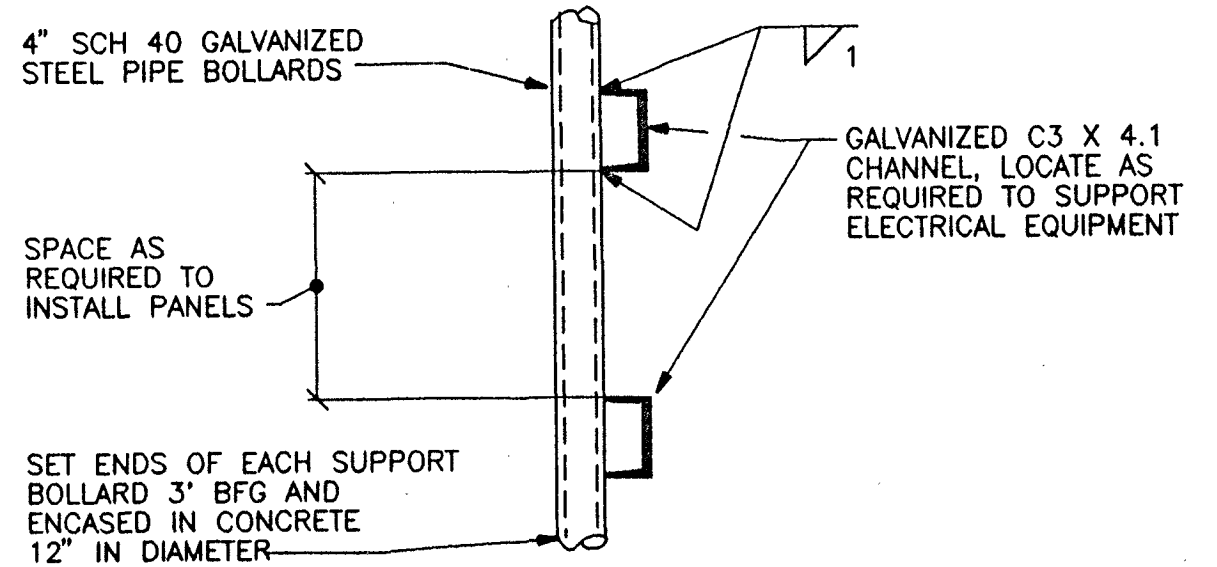
WELL PUMP #3 CONTROL DIAGRAM
NO SCALE



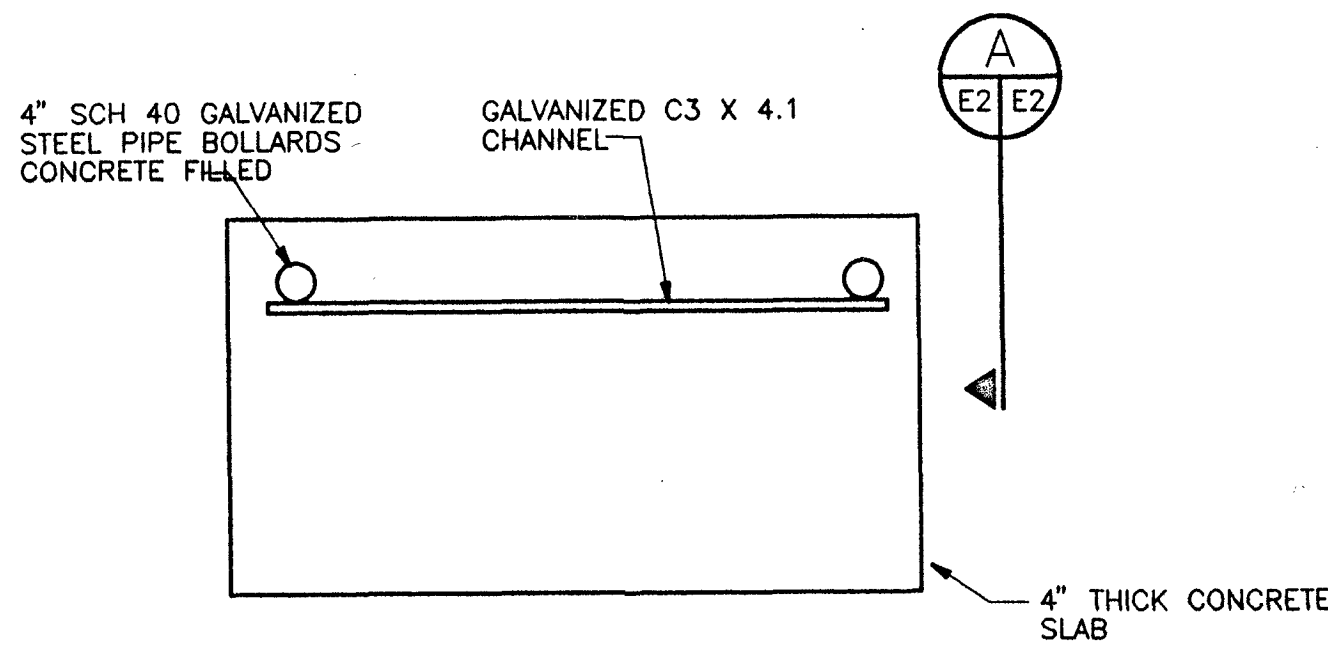
CHEMICAL FEED PUMP CONTROL DIAGRAM
NO SCALE



CHEMICAL FEED PUMP CONTROL DIAGRAM
NO SCALE

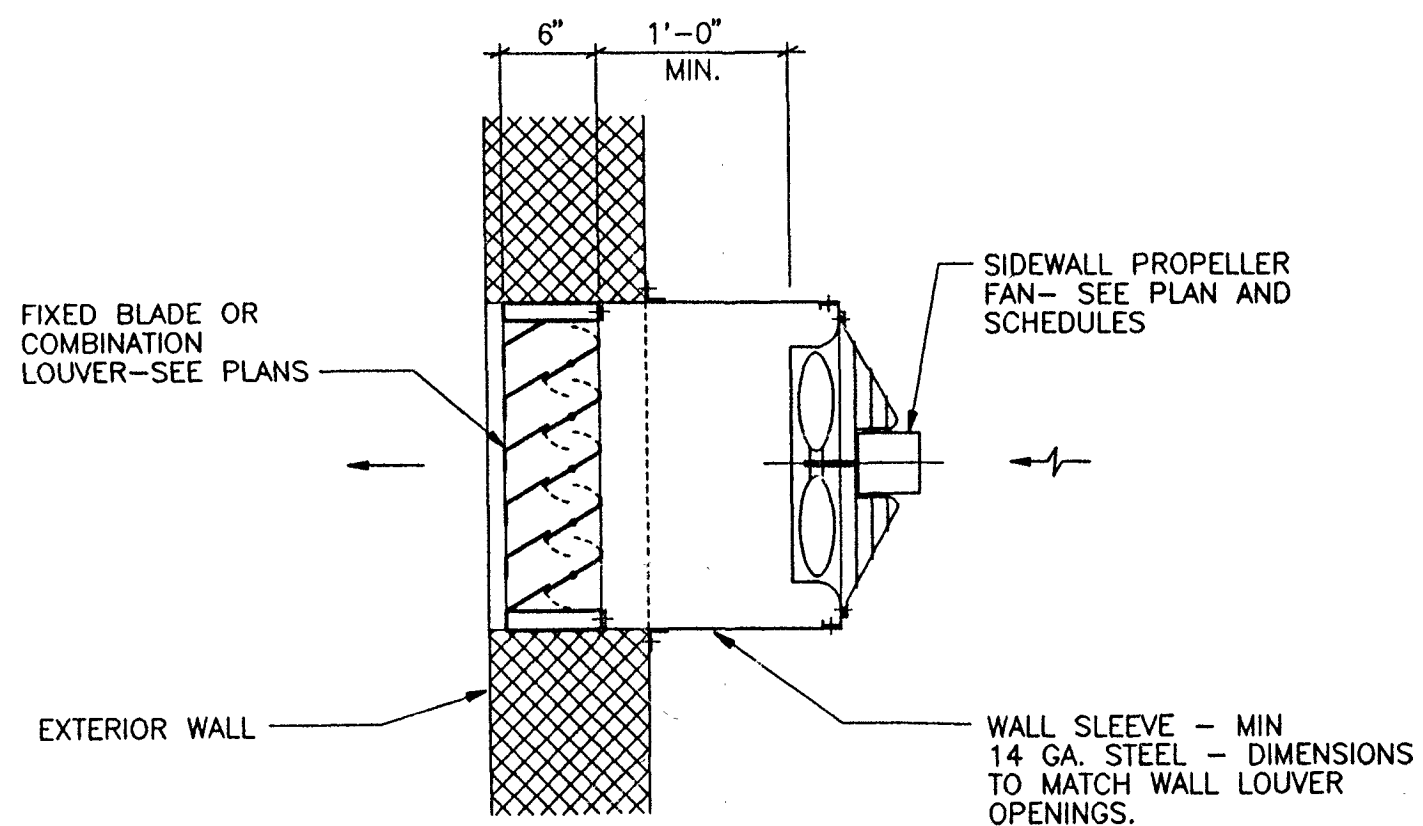


SECTION A-A
NOT TO SCALE

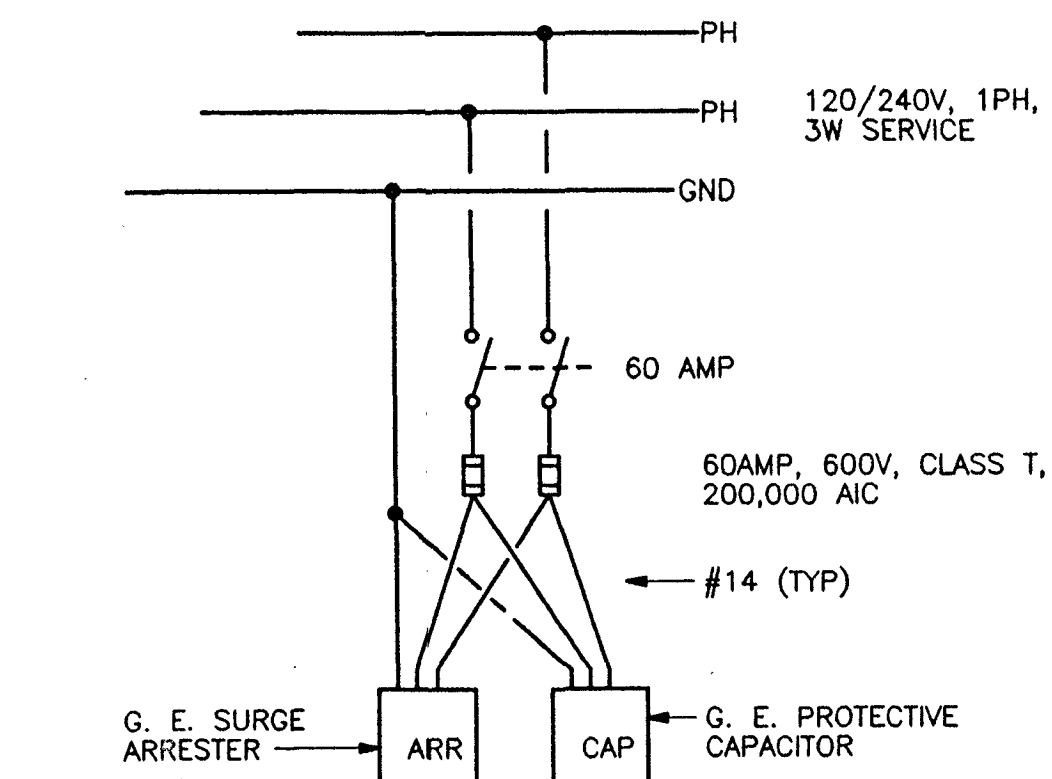


NOTE: ALL ELECTRICAL EQUIPMENT ENCLOSURES ON RACK SHALL BE NEMA 3R RATED UNLESS OTHERWISE INDICATED.
PAINT PIPE BOLLARDS WITH 3 COATS OF BLACK ENAMEL PAINT.

WELL #3 ELECTRICAL SERVICE RACK DETAIL
NOT TO SCALE



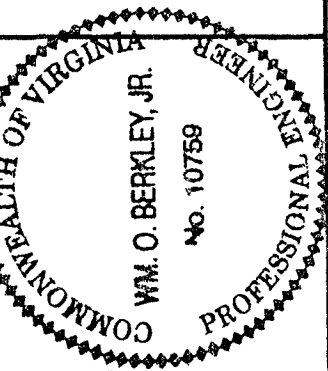
DETAIL - SIDEWALL PROPELLER FAN
NOT TO SCALE



NOTE: PROVIDE NEMA 1 HOFFMAN ENCLOSURE FOR ARRESTER AND CAPACITOR IN WATERWORKS BUILDING AND NEMA 3R ENCLOSURE @ WELL SITE #3.

DETAIL SURGE ARRESTER & PROTECTIVE CAPACITOR CONNECTIONS
NO SCALE

BERKLEY HOWELL & ASSOC., P.C.
ENGINEERS • SURVEYORS • PLANNERS
306 ENTERPRISE DRIVE, SUITE C
FOREST, VIRGINIA 24551
PH: (434) 385-7548 FAX: (434) 385-6178



THE RETREAT
WATER SYSTEM
UNION HALL DISTRICT FRANKLIN CO., VA.

ELECTRICAL
LIGHTING FIXTURE & PANEL SCHEDULES
CONTROL DIAGRAMS & DETAILS

DATE: 3-11-03

TECHNICIAN: WAYNE

CHECKED BY: WOB

REVISIONS

NO.	DATE
1	2-26-03

SCALES AS SHOWN

PROJ. NO. 020097

DIV. 16 OF 16

DRAWING NO. E-2

MANUSCRIPT DRAWING NUMBER: RETWATER02.DGN

SURVEY DATUM USED:

FIELDBOOK IDENTIFICATION:

VIEWS TO CREATE THIS DRAWING:

MANUSCRIPT DRAWING NUMBER: