

ADD ALTERNATE EQUIPMENT SCHEDULE						
CALLOUT	SYMBOL	VOLTS	KVA	BREAKER	CIRCUIT	DISCONNECT DESCRIPTION
JP		208V 3P 4W	2.49	20/3	B-2,4,6	1/2" C, 3#12, #12N, #12G 30A/3P/NEMA 1
MFCU-3		208V 120V 2P 3W	0.21	20/2	B-8,10	1/2" C, 2#12, #12N, #12G 30A/2P/NEMA 1
MHP-3		208V 120V 2P 3W	2.7	20/2	B-8,10	1/2" C, 2#12, #12N, #12G 30A/2P/NEMA 3R

GENERAL NOTES

LABEL FIRE PUMP DISCONNECT SWITCH IN ACCORDANCE WITH NEC 695.4(B)(3)(c) AND LABEL FIRE PUMP CONTROLLER INDICATING LOCATION OF THIS DISCONNECT PER NEC 695.4(B)(3)(d).

DISCONNECT TO BE LOCKABLE IN CLOSED POSITION PER 695.4(B)(3)(e)(3).

CONTRACTOR SHALL DESIGN THIS BUILDING'S SPRINKLER SYSTEM TO BE FED FROM FIRE PUMP LOCATED IN ADJACENT BUILDING AND UNDERGROUND TANKS. CONTRACTOR TO PROVIDE OWNER AN ADD ALTERNATE PRICING FOR THE INSTALLATION OF A FIRE PUMP DEDICATED TO THIS BUILDING, WITH ALL NECESSARY COMPONENTS. THIS SHALL BE PROVIDED AS A SEPARATE LINE ITEM TO THE BASE BID. REFER TO DRAWING FOR ADD ALTERNATE NOTES AND REFER TO ADD ALTERNATE SCHEDULE.

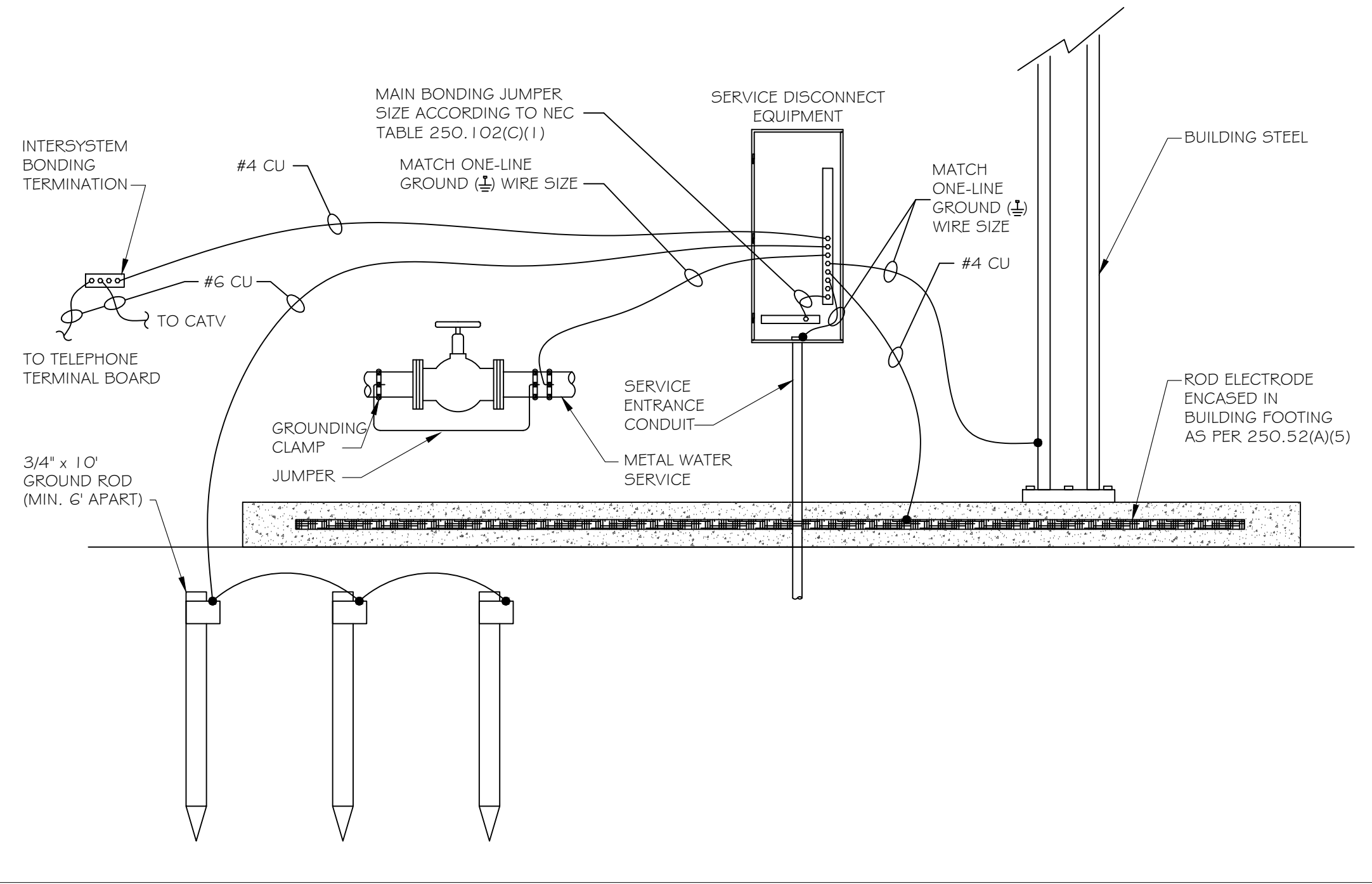
KEYNOTES

- ① CONDUCTORS SHALL BE ROUTED OUTSIDE OF BUILDING IN ACCORDANCE WITH NEC ARTICLE 230.6 UNTIL TERMINATION WITHIN FIRE PUMP CONTROLLER CABINET.
- ② DISCONNECTING MEANS SHALL BE RATED FOR FIRE PUMP SERVICE AND SERVICE ENTRANCE RATED.

Panel A		ROOM MOUNTING	SURFACE	VOLTS	208Y/120V 3P 4W	AIC 22,000			
		FED FROM	DSC A	NEUTRAL	400%	MAIN BKR	MLO		
		NOTE							
CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	
1	200/3	54.0	ELEVATOR		a 2	20/1	1.2	FURN-3	
3					b 4	20/1	0.2	RECEPTACLE	
5					c 6	20/1	1.0	TEL BACKBOARD	
7	20/1	0.0	SHUNT TRIP		a 8	20/1	0.7	RECEPTACLE	
9	20/1	0.1	LIGHTING		b 10	20/1	1.1	KEYPAD, RECEPTACLE	
11	20/2	2.9	MFCU-1, MHP-1		c 12	20/1	0.4	LIGHTING	
13					a 14	20/2	2.9	MFCU-2, MHP-2	
15	20/1	0.1	CAB LIGHTS		b 16				
17	20/2	1.2	SUMP PUMP		c 18	20/1	0.4	LIGHTING	
19					a 20	20/1	0.2	RECEPTACLE	
21	20/1	0.4	RECEPTACLE		b 22	20/1	1.1	SIGNAGE LETTERS, SIGNAGE LOGO	
23	25/2	3.5	CU-1		c 24	20/1	1.2	SIGNAGE	
25					a 26	20/1	0.4	RECEPTACLE	
27	25/2	3.5	CU-2		b 28	20/2	3.0	EWH-A	
29					c 30				
31	30/2	3.8	CU-3		a 32	20/2	3.0	EWH-A	
33					b 34				
35	20/1	1.2	FURN-1		c 36	20/1	0.9	RECEPTACLE	
37	20/1	0.2	RECEPTACLE		a 38	200/3	13.2	PANEL B	
39	20/1	1.2	FURN-2		b 40				
41	20/1	0.2	RECEPTACLE		c 42				
			LUG LOAD: 0.0 KVA						
		CONN KVA	CALC KVA				CONN KVA	CALC KVA	
LIGHTING		7.8	9.7	(125%)	MOTORS		86.7	86.7	(100%)
LARGEST MOTOR		54.0	13.5	(25%)	RECEPTACLES		7.6	7.6	(50%>10)
					NONCONTINUOUS		1.0	1.0	(100%)
					TOTAL LOAD		118.5		
					BALANCED 3-PHASE		328.9		
					AMPS				
					PHASE A		99.8%		
					PHASE B		101%		
					PHASE C		99.3%		

Panel		ROOM MOUNTING SURFACE		VOLTS 208Y120V 3P 3W		AIC 22,000	
B		FED FROM A		NEUTRAL 100%		MAIN BKR MLO	
		NOTE				LUGS STANDARD	
CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	20/1	0.6	HC DOOR	a 2	20/3	2.5	JOCKEY PUMP
3	20/1	0.6	HC DOOR	b 4			
5	20/1	1.4	RECEPTACLE	c 6			
7	20/1	0.6	HC DOOR	a 8	20/2	2.9	MFCU-3, MHP-3
9	20/1	1.4	LIGHTING	b 10			
11	20/1	0.1	LIGHTING	c 12	20/1	1.4	LIGHTING
13	20/1	0.1	LIGHTING	a 14	20/1	1.4	LIGHTING
15	20/1	0.2	HEAT TRACE	b 16	20/1	0.0	SPACE
17	20/1	0.0	SPACE	c 18	20/1	0.0	SPACE
19	20/1	0.0	SPACE	a 20	20/1	0.0	SPACE
21	20/1	0.0	SPACE	b 22	20/1	0.0	SPACE
23	20/1	0.0	SPACE	c 24	20/1	0.0	SPACE
25	20/1	0.0	SPACE	a 26	20/1	0.0	SPACE
27	20/1	0.0	SPACE	b 28	20/1	0.0	SPACE
29	20/1	0.0	SPACE	c 30	20/1	0.0	SPACE
31	20/1	0.0	SPACE	a 32	20/1	0.0	SPACE
33	20/1	0.0	SPACE	b 34	20/1	0.0	SPACE
35	20/1	0.0	SPACE	c 36	20/1	0.0	SPACE
37	20/1	0.0	SPACE	a 38	20/1	0.0	SPACE
39	20/1	0.0	SPACE	b 40	20/1	0.0	SPACE
41	20/1	0.0	SPACE	c 42	20/1	0.0	SPACE
LUG LOAD: 0.0 KVA							
		CONN KVA	CALC KVA			CONN KVA	CALC KVA
LIGHTING		4.4	5.5 (125%)	MOTORS		5.4	5.4 (100%)
LARGEST MOTOR		2.7	0.7 (25%)	RECEPTACLES		3.4	3.4 (50%>10)
TOTAL LOAD						15.0	
BALANCED 3-PHASE							
AMPS						41.6	
PHASE A						114%	
PHASE B						101%	
PHASE C						84.8%	

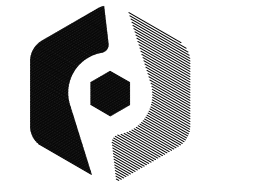
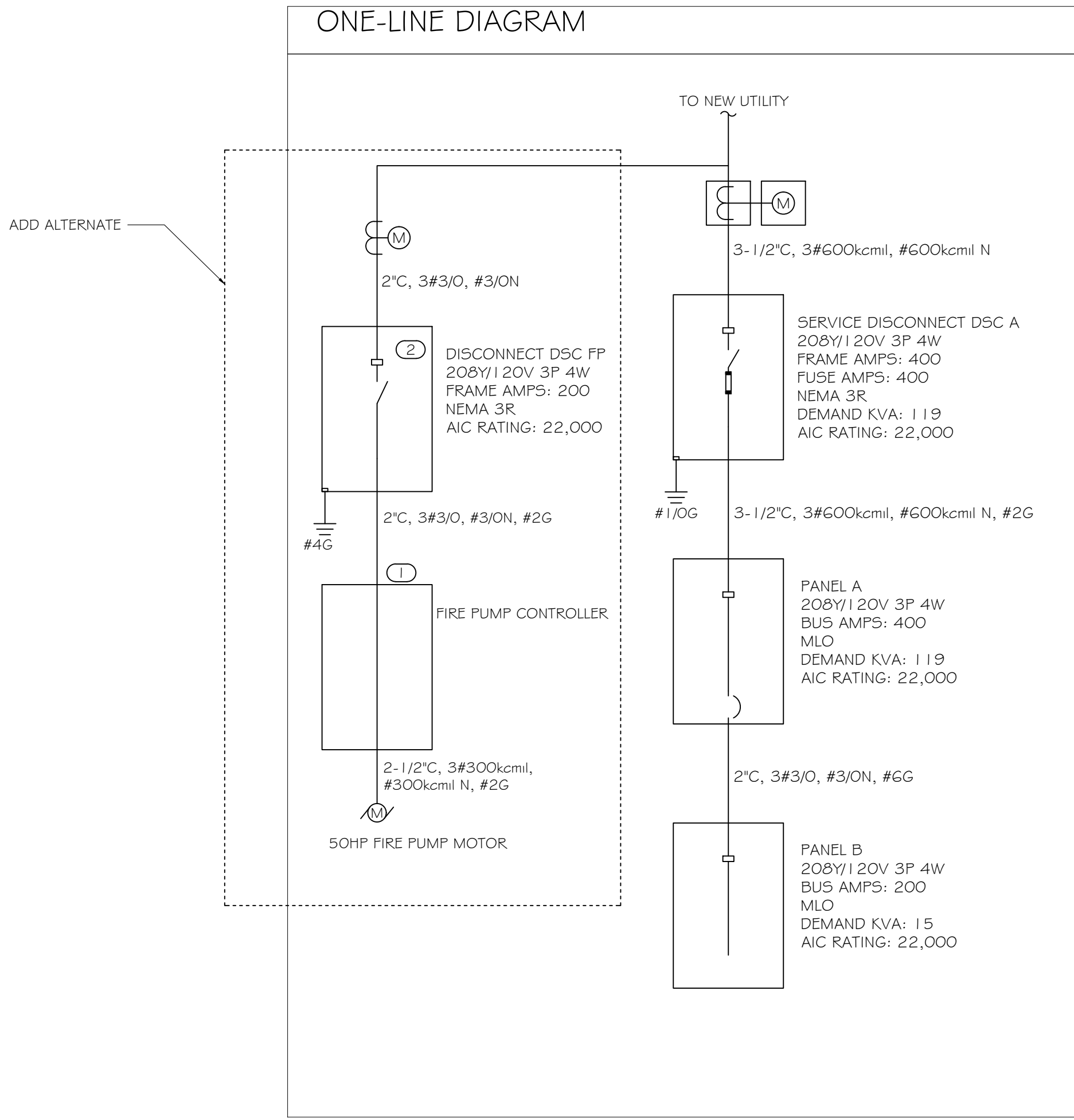
GROUNDING AND BONDING DETAIL



GENERAL SCHEDULE							
CALLOUT	SYMBOL	VOLTS	KVA	BREAKER	CIRCUIT	WIRE CALLOUT	DISCONNECT DESCRIPTION
CU-1		208V 120V 2P 3W	3.49	25/2	A-23,25	1/2" C, 2#10, #10N, #10G	30A/2P/NEMA 3R
CU-2		208V 120V 2P 3W	3.49	25/2	A-27,29	1/2" C, 2#10, #10N, #10G	30A/2P/NEMA 3R
CU-3		208V 120V 2P 3W	3.76	30/2	A-31,33	1/2" C, 2#10, #10N, #10G	30A/2P/NEMA 3R
E-1		208V 3P 4W	54.04	200/3	A-1,3,5	2" C, 3#3/0, #3/0N, #6G	200A/3P/NEMA 4X/200
E-B		120V 1P 2W	0.1	20/1	A-15	1/2" C, 1#12, #12N, #12G	30/1P/NEMA 4X
ESP-1		208V 120V 2P 3W	1.18	20/2	A-17,19	1/2" C, 2#12, #12N, #12G	30/2P/NEMA 1
EW-H-A		208V 120V 2P 3W	3	20/2	A-28,30	1/2" C, 2#12, #12N, #12G	30A/2P/NEMA 1
EW-H-A		208V 120V 2P 3W	3	20/2	A-32,34	1/2" C, 2#12, #12N, #12G	30A/2P/NEMA 1
FURN-1		120V 1P 2W	1.18	20/1	A-35	1/2" C, 1#12, #12N, #12G	30A/1P/NEMA 1
FURN-2		120V 1P 2W	1.18	20/1	A-39	1/2" C, 1#12, #12N, #12G	30A/1P/NEMA 1
FURN-3		120V 1P 2W	1.18	20/1	A-2	1/2" C, 1#12, #12N, #12G	30A/1P/NEMA 1
MFCU-1		208V 120V 2P 3W	0.21	20/2	A-11,13	1/2" C, 2#12, #12N, #12G	30/2P/NEMA 1
MFCU-2		208V 120V 2P 3W	0.21	20/2	A-14,16	1/2" C, 2#12, #12N, #12G	30A/2P/NEMA 1
MHP-1		208V 120V 2P 3W	2.7	20/2	A-11,13	1/2" C, 2#12, #12N, #12G	30A/2P/NEMA 3R
MHP-2		208V 120V 2P 3W	2.7	20/2	A-14,16	1/2" C, 2#12, #12N, #12G	30A/2P/NEMA 3R

STORAGE LUMINAIRE SCHEDULE

CALLOUT	SYMBOL	LAMP	DESCRIPTION	MODEL	VOLTS
A		(1) 42W LED	4" STRIP WITH INTEGRAL OCCUPANCY SENSOR AND WIREGUARD WALL MTD @ 7'-6" AFF	COLUMBIA MP54-50ML-CW-EDU NX5 MP5WG4	120V 1P 2W
A1		(1) 42W LED	4" STRIP WITH INTEGRAL OCCUPANCY SENSOR AND WIREGUARD SUSPENDED @ 9' AFF	COLUMBIA MP54-50ML-CW-EDU NX5 MP5WG4	120V 1P 2W
AE		(1) 42W LED	4" STRIP WITH EMERGENCY BATTERY, INTEGRAL OCCUPANCY SENSOR AND WIREGUARD WALL MTD @ 7'-6" AFF	COLUMBIA MP54-50ML-CW-EDU -ELL14 NX5 MP5WG4	120V 1P 2W
AE1		(1) 42W LED	4" STRIP WITH EMERGENCY BATTERY, INTEGRAL OCCUPANCY SENSOR AND WIREGUARD SUSPENDED @ 9' AFF	COLUMBIA MP54-50ML-CW-EDU -ELL14 NX5 MP5WG4	120V 1P 2W
OA		(1) 73W LED	EXTERIOR WALL PACK WHITE COLOR	LITHONIA DSXW2 LED 20C 1000 30K ASYDF MVOLT DM1XW	120V 1P 2W
OE		(1) 36W LED	EXTERIOR WALL PACK W/ EMERGENCY BATTERY WHITE COLOR	LITHONIA DSXW1 LED 20C 530 30K TFTM MVOLT ELCW	120V 1P 2W
Q		(1) LED	ELEVATOR PIT LIGHT	BEGHELLI BS100LED-4HT-LO-WT40-120-277	120V 1P 2W
S		(1) 20W LED	WALL MOUNTED LED W/ EMERGENCY BATTERY, INTEGRAL OCCUPANCY SENSOR AND WIREGUARD WALL MTD @ 8'-0"	COLUMBIA MP54-50ML-CW-EDU-ELL14 NX5 MP5WG4	120V 1P 2W
X		(1) 5W LED	THERMOPLASTIC EXIT SIGN WITH BACKUP BATTERY	LITHONIA LQM-S-W-3-R-120/277-EL-N	120V 1P 2W



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