LIGHT FIXTURE SCHEDULE				
TYPE	SYMBOL	DESCRIPTION	MANUFACTURER	REFERENCE CATALOG #
A		2X4 LED EDGE-LIT FLAT PANEL. 32W, 4100 LUMENS, 3500K CCT. 0-10V DIMMING.	COLUMBIA	CFP24 4135 HE
AE		2X4 LED EDGE-LIT FLAT PANEL. 32W, 4100 LUMENS, 3500K CCT. 0-10V DIMMING, 90 MIN BATTERY BACKUP.	COLUMBIA	CFP24 4135 HE ELL14
C		6" RECESSED LED DOWNLIGHT. 22W, 1500 LUMENS, 3500K CCT. IC RATED, WET LOCATION, 0-10V DIMMING.	LITON	CH618 ICA UED10 CR6L22 XX T35
CE		6" RECESSED LED DOWNLIGHT. 22W, 1500 LUMENS, 3500K CCT. IC RATED, WET LOCATION, 0-10V DIMMING. 90 MIN BATTERY BACKUP.	LITON	CH618 ICA UED10EM CR6L22 XX T35
D		2' LED STRIP FIXTURE. 18W, 2200 LUMENS, 3500K CCT. WALL MOUNTED, 0-10V DIMMING.	COLUMBIA	MPS2 35 MW CW ED U XX
EMR		BUGEYE EMERGENCY LIGHT EXIT SIGN COMBO. WET LOCATION LISTED, SELF DIAGNOSTICS, UNIVERSAL FACE. 90 MIN BATTERY BACKUP.	COMPASS	CCRGB
EX		LED EXIT SIGN. STAINLESS STEEL FACE WITH RED LETTERS, UNIVERSAL FACE AND MOUNTING, SELF-DIAGNOSTIC, 90 MIN BATTERY BACKUP.	COMPASS	CCESRE/CCEDRE
EX2		EXTERIOR RATED LED EXIT SIGN, RED LETTERS. SINGLE-FACE, WALL MOUNTED. SELF-DIAGNOSTIC, 90 MIN BATTERY BACKUP.	COMPASS	CEWDRE
F		2' LED VANITY FIXTURE. 15W, 1000 LUMENS, 3500K CCT. WALL MOUNTED, 0-10V DIMMING.	PINNACLE	EX3D WHE N 835VHO 2 WA U OL2 1 XX
S		4' LED STRIP FIXTURE. 38W, 4800 LUMENS, 3500K CCT. SUSPENDED MOUNTING, 0-10V DIMMING.	COLUMBIA	MPS4 35 ML CPW ED U
SE		4' LED STRIP FIXTURE. 38W, 4800 LUMENS, 3500K CCT. SUSPENDED MOUNTING, 0-10V DIMMING. 90 MIN BATTERY BACKUP.	COLUMBIA	MPS4 35 ML CPW ED U ELL14
W		EXTERIOR LED WALL PACK. 45W, 5700 LUMENS, 4000K CCT. WET LOCATION, 90 MIN BATTERY BACKUP.	HUBBELL	RWL1 48L 35 4K7 3 UNV XX E

GENERAL NOTES:
EQUIVALENT ALTERNATE LIGHT FIXTURES MAY BE PROVIDED FOR BIDDING PURPOSES. THE ENGINEER DOES NOT TAKE RESPONSIBILITY FOR ENSURING ALTERNATE LIGHT FIXTURES USED FOR BIDDING ARE EQUAL; THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALTERNATE FIXTURES ARE EQUIVALENT TO THOSE SPECIFIED PRIOR TO BID. THE WINNING BID PACKAGE SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW IN ACCORDANCE WITH THE SPECIFICATIONS.

ELECTRICAL LEGEND

	PANEL BOARD
	DISTRIBUTION PANEL BOARD
T	TRANSFORMER
	UTILITY METER
CB	SEPARATE CIRCUIT BREAKER
	DISCONNECT
	FUSED DISCONNECT SWITCH
	EMERGENCY FUSED DISCONNECT SWITCH
	MOTOR STARTER/CONTRACTOR
	COMBINATION MOTOR STARTER
	PUSH BUTTON STATION AS NOTED
P	PULL BOX, SIZE AS REQUIRED BY CODE
	ELECTRICAL CONNECTION
	MOTOR CONNECTION
	HOME RUN TO PANEL BOARD

SWITCH LEGEND	
SYMBOL	DESCRIPTION
$	20A, 120/277V SPST SWITCH
$a	20A, 120/277V LETTER INDICATES GROUP
$3	20A, 120/277V 3-WAY
$4	20A, 120/277V 4-WAY
$D	DIMMER SWITCH
$K	KEY OPERATED SWITCH
$OC	OCCUPANCY SENSOR SWITCH

GENERAL NOTE:
SEE SPECIFICATIONS FOR MANUFACTURERS

OCC SENSOR SCHEDULE	
SYMBOL	DESCRIPTION
OS	MULTI-TECHNOLOGY, CEILING MOUNTED OCCUPANCY SENSOR CAPABLE OF DISABLING AUTO ADAPTING FEATURE. PROVIDE WITH RELAY/POWER PACKS AS REQUIRED PER PLAN. (LOW VOLTAGE)

GENERAL NOTES:

1. E.C. SHALL CONTACT ARCHITECT FOR COLOR SELECTION PRIOR TO ORDER OF ANY SENSOR.

2. FOR CEILING SPACES 14 FT. A.F.F. PIR TYPE CEILING MOUNTED SENSORS SHALL BE USED.

3. WALL MOUNTED DEVICES TO MATCH MANUAL LIGHTING CONTROL.

RECEPTACLE SCHEDULE	
SYMBOL	DESCRIPTION
	DUPLEX RECEPTACLE
	20A, 120V, 2P, 3W GROUNDING DUPLEX RECEPTACLE RECEPTACLE MTD. 6" ABOVE COUNTER OR HGT SHOWN
	DUPLEX RECEPTACLE, CEILING MOUNTED
	GFCI RECEPTACLE
	QUADPLEX RECEPTACLE

GENERAL NOTE:
SEE SPECIFICATIONS FOR MANUFACTURERS

GENERAL ELECTRICAL NOTES

1. CONTRACTOR TO VERIFY EXISTING ELECTRICAL CONDITIONS AND NOTIFY ARCHITECT/ENGINEER OF ANY ELECTRICAL OR CODE ISSUES PRIOR TO BID. CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE AND OPERATIONAL CODE COMPLIANT SYSTEM.
2. ALL WORK SHALL BE IN CONFORMANCE WITH NATIONAL, STATE, AND LOCAL CODES AND/OR ORDINANCES.
3. ELECTRICAL CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER CONTRACTORS & LOCAL UTILITY. E.C. SHALL CONTACT LOCAL UTILITY FOR EXACT SERVICE REQUIREMENTS TO INCLUDE BUT NOT LIMITED TO TRANSFORMER, METERING AND CABLING. LOCAL UTILITY REQUIREMENTS SUPERSEDE DRAWINGS AND SPECIFICATIONS.
4. SEE ARCHITECTURAL, MECHANICAL, & PLUMBING DRAWINGS FOR ADDITIONAL REQUIREMENTS.
5. WHERE NEW OR EXISTING WIRING FOR INTERIOR DATA OR POWER WILL BE EXPOSED, SURFACE MOUNTED RACEWAY EQUAL TO WIREMOLD SERIES 5400 SHALL BE USED. SURFACE BOXES SHALL MATCH SURFACE RACEWAY. ALL PARTS AND ACCESSORIES SHALL BE INSTALLED FOR A COMPLETE SYSTEM. WHERE BOTH DATA AND POWER WIRING SHARE THE SAME RACEWAY, POWER WIRING SHALL BE SEPARATED FROM DATA WIRING AS PER NEC.
6. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC ONLY. THEY ARE INTENDED TO GIVE APPROXIMATE LOCATIONS AND OVERALL DESIGN INTENT. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PRODUCTS, MATERIALS, AND ELECTRICAL METHODS WHICH HAVE NOT BEEN SHOWN OR INDICATED BUT ARE REQUIRED FOR A COMPLETE SYSTEM TO THE STANDARDS OF THE INDUSTRY.
7. INSTALL LIGHTING FIXTURES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDE SUPPORTING DEVICES FOR ADEQUATE SUPPORT OF FIXTURES FROM STRUCTURE.
8. UPON COMPLETION OF THE ELECTRICAL WORK, THE INSTALLATION SHALL BE TESTED FOR CONTINUITY, GROUNDS, AND SHORT CIRCUITS. THE ELECTRICAL CONTRACTOR SHALL DEMONSTRATE PROPER PERFORMANCE OF ALL SYSTEMS. ALL DEFECTIVE WORK OR MATERIALS SHALL BE REPLACED OR REPAIRED AS NECESSARY AND RETESTED.
9. ELECTRICAL RACEWAYS THAT PENETRATE FIRE RATED ASSEMBLIES SHALL BE SLEEVED AND SEALED AS PER THE LOCAL BUILDING CODE.
10. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A TEMPORARY ELECTRICAL SYSTEM FOR THE PROJECT. AT LEAST ONE 120 VOLT SINGLE PHASE RECEPTACLE SHALL BE PROVIDED FOR EACH 500 SQUARE FEET OF FLOOR SPACE. SUFFICIENT TEMPORARY LIGHTING SHALL BE PROVIDED TO ALLOW ALL CONTRACTORS TO COMPLETE THEIR WORK. TEMPORARY ELECTRICAL CIRCUITS SHALL BE EQUIPPED WITH COMBINATION GROUND FAULT INTERRUPTER AND CIRCUIT BREAKER PER NEC. TEMPORARY ELECTRICAL SYSTEM SHALL BE INCLUDED IN THIS BID. USAGE CHARGES SHALL BE PAID FOR BY THE GENERAL CONTRACTOR.

ELECTRICAL ABBREVIATIONS

AC	ABOVE COUNTERTOP	MC	MECHANICAL CONTRACTOR
AFF	ABOVE FINISH FLOOR	MCA	MINIMUM CIRCUIT AMPS
AFG	ABOVE FINISH GRADE	MDP	MAIN DISTRIBUTION PANEL
ANNC	ANNUNICIATOR	MTD	MOUNTED
CC	CONTROLS CONTRACTOR	NIC	NOT IN CONTRACT
DF	DRINKING FOUNTAIN	OCC	OCCUPANCY
EC	ELECTRICAL CONTRACTOR	PC	PLUMBING CONTRACTOR
EF	EXHAUST FAN	PNL	PANEL
EX	EXISTING	SPST	SINGLE POLE SINGLE THROW
EXR	EXISTING RELOCATED	TTB	TELEPHONE TERMINAL BOARD
GC	GENERAL CONTRACTOR	TYP	TYPICAL
GFI	GROUND FAULT INTERRUPT	WG	WIRE GUARD
HP	HORSEPOWER	WP	WEATHER PROOF
IBC	INTERNATIONAL BUILDING CODE	20A	20 AMP
IG	ISOLATED GROUND	ø	PHASE
LV	LOW VOLTAGE	3W	3 WIRE
LVRP	LV RELAY PANEL	1P20A	SINGLE POLE 20 AMP

ELECTRICAL SHEET INDEX

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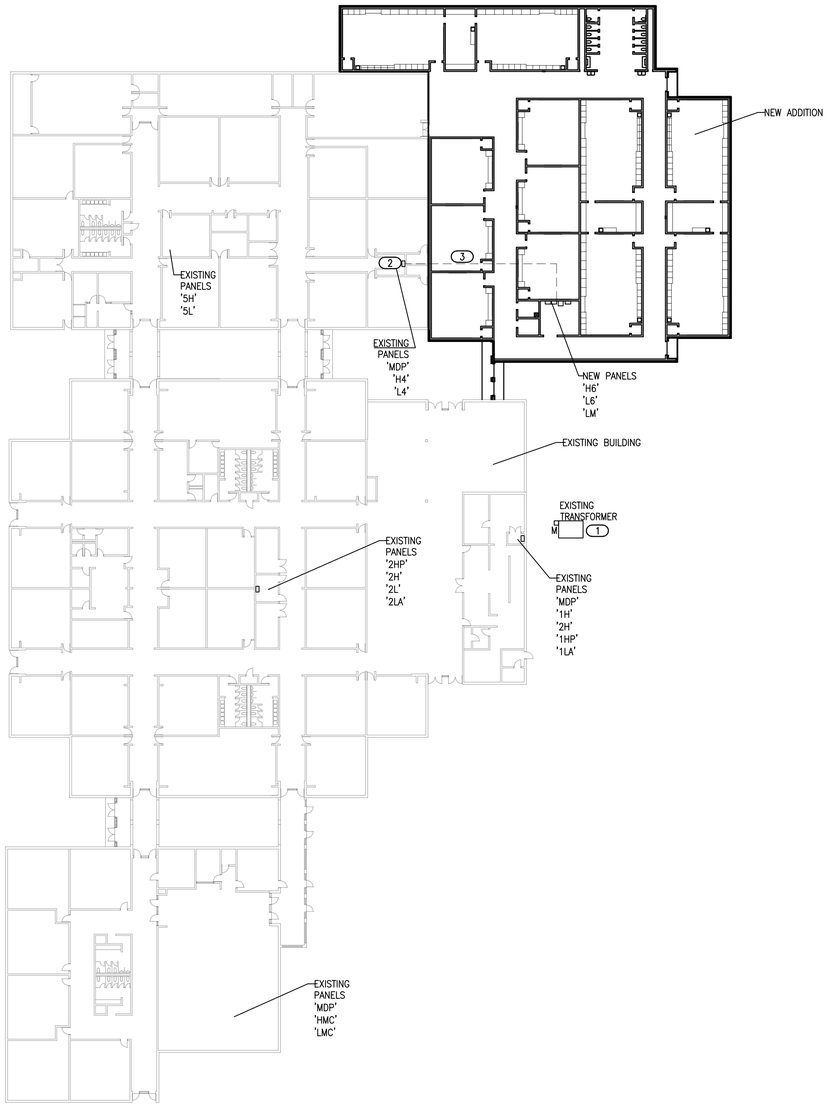

1 ELECTRICAL SITE PLAN

1/32" = 1'-0"

NORTH

GENERAL NOTES

1. EC SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO ALL WORK.
2. CONDUIT ROUTE SHOWN IS ONLY TO CONVEY DESIGN INTENT. EC SHALL DETERMINE FINAL ROUTING OF NEW CONDUIT AFTER FIELD VERIFYING EXISTING CONDITIONS.

KEYED NOTES

(1) EXISTING OG&E METER #: 75087445G

(2) NEW 225A/3Φ AND 175A/3Φ BREAKERS SHALL BE ADDED TO EXISTING 'MDP' USING THE EXISTING SPACE AVAILABLE. EXISTING SUB PANELS SHALL ALL REMAIN INTACT. REFER TO SHEET E401 FOR ADDITIONAL INFORMATION REGARDING EXISTING MDP AND CONNECTIONS. REFER TO SHEET E402 FOR ADDITIONAL INFORMATION REGARDING NEW PANELS AND CONNECTIONS.

(3) PROPOSED CONDUIT FEEDS FOR NEW PANEL 'H6' AND NEW TRANSFORMER 'TM'

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1 ELECTRICAL LIGHTING PLAN

1/8" = 1'-0"

NORTH

GENERAL NOTES

1. OCCUPANCY SENSOR LOCATIONS ARE FOR DESIGN INTENT ONLY. LOCATE OCCUPANCY SENSORS PER MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.
2. CONNECT BATTERY PACKS TO UNSWITCHED HOT OF LOCAL LIGHTING CIRCUIT.
3. COORDINATE EXACT LOCATIONS AND MOUNTING HEIGHTS OF LIGHT FIXTURES WITH HVAC EQUIPMENT AND OTHER DEVICES/EQUIPMENT.
4. COORDINATE LIGHT SWITCHES WITH THERMOSTATS AND OTHER WALL MOUNTED DEVICES.
5. PROVIDE RELAY CONTACTOR FOR EXTERIOR LIGHTING. RELAY SHALL INTERLOCK WITH THE NEAREST EXISTING LIGHTING CIRCUIT SUCH THAT THE EXISTING LIGHTING CONTROLS SHALL CONTROL THE NEW EXTERIOR LIGHTING.
6. REFER TO '8/E501' FOR ADDITIONAL INFORMATION REGARDING RESTROOM LIGHTING CONTROLS.

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1 ELECTRICAL POWER PLAN

1/8" = 1'-0"

NORTH

GENERAL NOTES

1. COORDINATE EXACT LOCATIONS OF DEVICES SHOWN WITH OTHER EQUIPMENT. COORDINATE EXACT LOCATIONS OF CEILING MOUNTED DEVICES WITH LIGHTS, HVAC EQUIPMENT, AND OTHER DEVICES.
2. COORDINATE WITH MC AND PROVIDE ALL RELAYS, CONNECTIONS, AND ALL DEVICES NECESSARY TO INTERLOCK EXHAUST FANS, DAMPERS, ETC WITH PROPER CONTROL DEVICES.
3. COORDINATE EXACT LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR.

KEYED NOTES

(1) RECEPTACLE FOR SMART BOARD (BY OWNER) IN A RECESSED BACK BOX. REFER TO DETAIL 'E501/9' FOR ADDITIONAL INFORMATION.

(2) PROVIDE 120V RECEPTACLE FOR WATER COOLER. COORDINATE EXACT LOCATIONS AND REQUIREMENTS WITH OWNER/ARCHITECT PRIOR TO ROUGH IN.

(3) PROVIDE 120V RECEPTACLE FOR WATER HEATER. COORDINATE EXACT LOCATIONS AND REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH IN.

(4) PROVIDE 120V CONNECTION FOR TRAP PRIMER LOCATED ON WALL 5'-0" AFF. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH IN.

(5) PROVIDE DEDICATED 120V RECEPTACLES FOR FRIDGE & FREEZER. COORDINATE FINAL REQUIREMENTS AND LOCATIONS WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN. ADJUST CONNECTION AS REQUIRED FOR A COMPLETE INSTALLATION.

(6) PROVIDE 120V DROP CORD RECEPTACLE FOR GENERAL USE. COORDINATE FINAL LOCATIONS AND REQUIREMENTS WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN. REFER TO DETAIL 'E501/6' FOR ADDITIONAL INFORMATION.

(7) APPROXIMATE LOCATION OF TEACHERS DESK. COORDINATE FINAL LOCATION AND REQUIREMENTS WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN. REFER TO DETAIL 'E501/9' FOR ADDITIONAL INFORMATION.

(8) PROVIDE 120V CONNECTION FOR CIRCULATION PUMP. CP-1 SHALL SERVE BOTH WH-1 & WH-2. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.

(9) PROVIDE ALL MOUNTINGS, SUPPORTS, ETC FOR STACKING TRANSFORMER 'T6' ON TOP OF TRANSFORMER 'TM'. REFER TO DETAIL 'E501/10' FOR ADDITIONAL INFORMATION.

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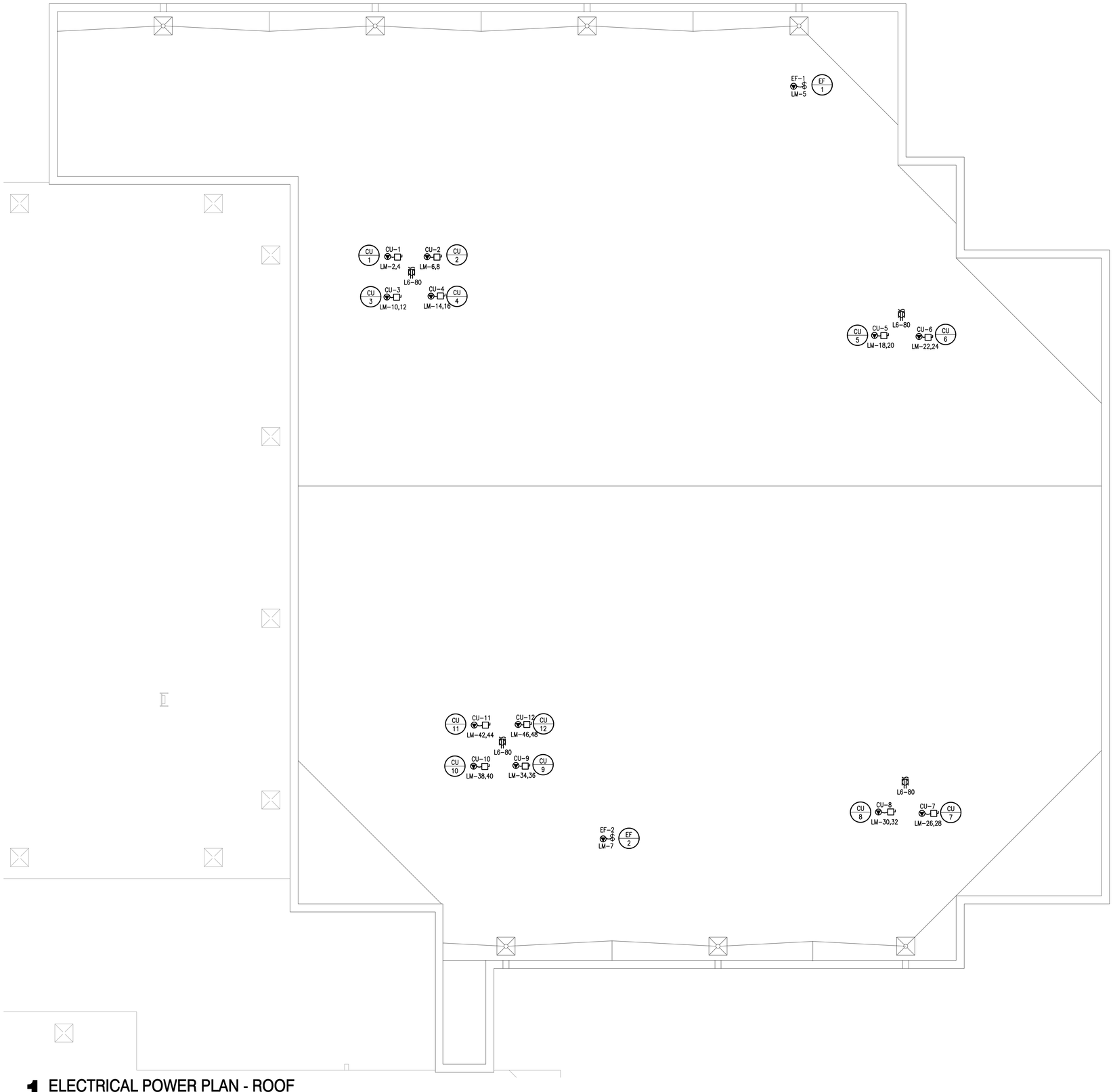

1 ELECTRICAL POWER PLAN - ROOF

1/8" = 1'-0"

NORTH

ROOF GENERAL NOTES

1. COORDINATE EXACT LOCATIONS OF DEVICES SHOWN WITH OTHER EQUIPMENT.
2. COORDINATE WITH MECHANICAL CONTRACTOR AND PROVIDE ALL RELAYS, CONNECTIONS, AND ALL DEVICES NECESSARY TO INTERLOCK EXHAUST FANS, DAMPERS, ETC WITH PROPER DEVICES.
3. COORDINATE EXACT LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR.
4. FIRMLY MOUNT WEATHERPROOF 120V CONVENIENCE OUTLET ON UNISTRUT/KINDORF. COORDINATE WITH OTHER TRADES PRIOR TO ROUGH-IN. REDUNDANT RECEPTACLES, WHETHER STAND-ALONE OR INTEGRAL TO A UNIT, MAY BE OMITTED SO LONG AS ALL OF THE REQUIREMENTS OF NEC 210.63 ARE SATISFIED.

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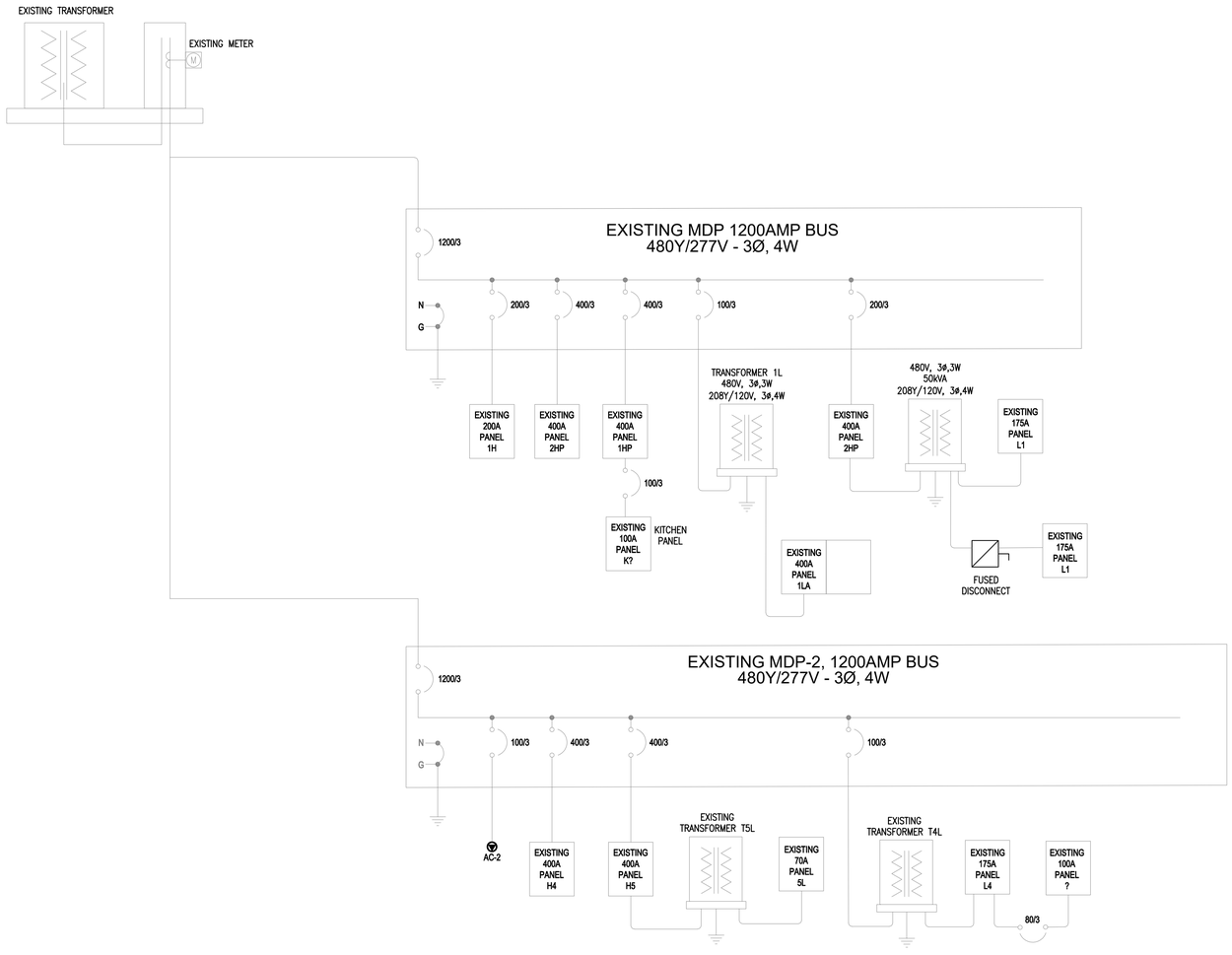

1 ELECTRICAL ONE-LINE DIAGRAM - EXISTING

NO SCALE

2 EXISTING MDP-2

NO SCALE

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GENERAL NOTES

1. AIC RATINGS ARE ESTIMATED BASED ON AVAILABLE DATA DURING DESIGN. CONTRACTOR TO VERIFY AVAILABLE FAULT CURRENT WITH UTILITY.
2. FAULT CURRENT, ARC FLASH, AND COORDINATION STUDY SHALL BE PERFORMED BY A THIRD PARTY ONCE EXACT PANEL PLACEMENT AND DISTANCES ARE DETERMINED. REFER TO SPECIFICATIONS SECTION 26 0573 FOR MORE INFORMATION.
3. PROVIDE A MINIMUM OF 10 SPARE 1P20A BREAKERS FOR EACH 120V SUB-PANEL.

EXISTING LOAD ANALYSIS

EXISTING MDP LOAD ANALYSIS:

PEAK LOAD AS REPORTED BY OG&E FOR THE YEAR 2020: 367A/PHASE

367A*1.25 (PER NEC 220.87) = 458.75A/PHASE

+DESIGN LOAD FROM NEW ADDITION = ~150A

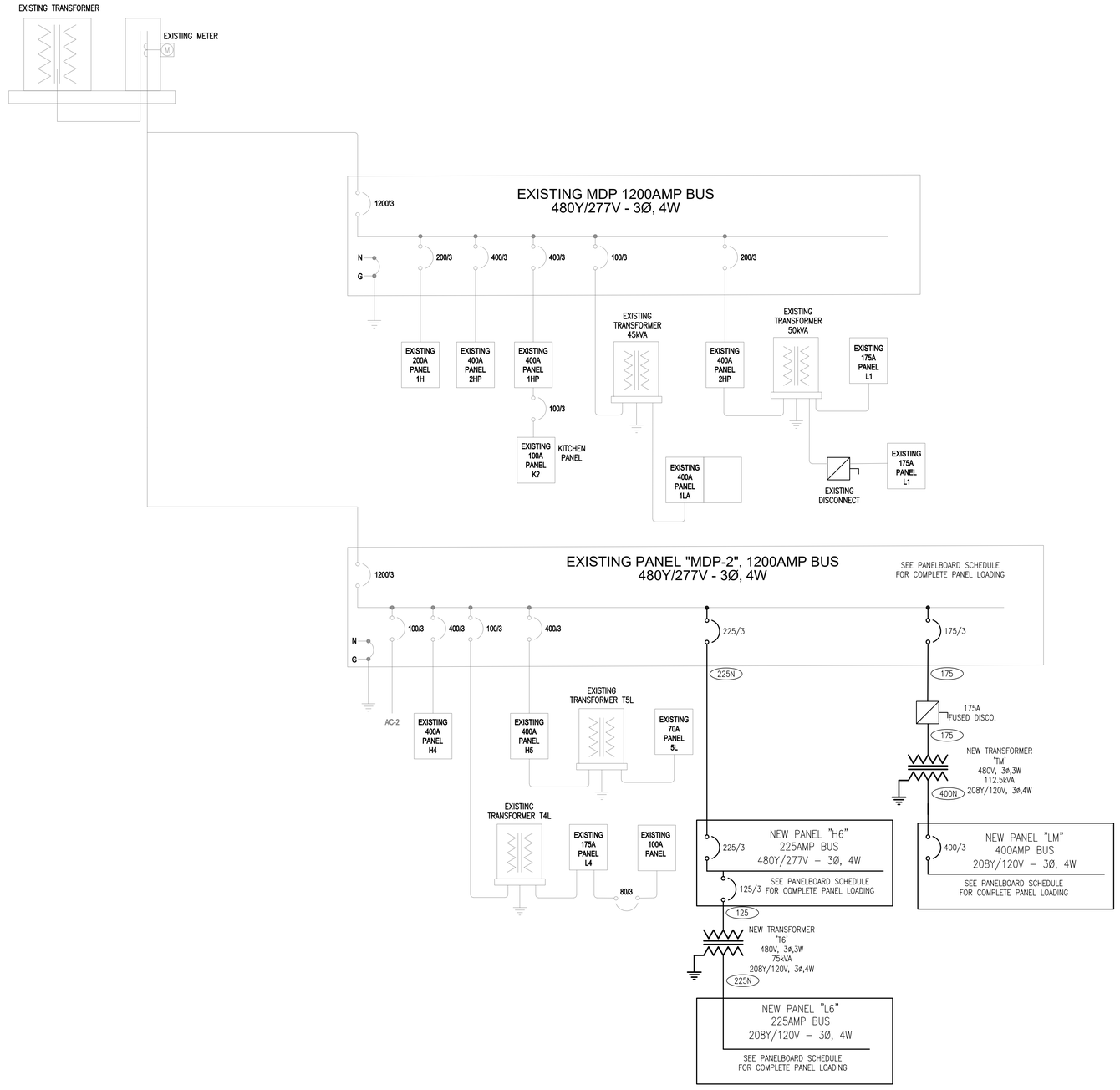
=> ~608.75MAX ON THE EXISTING 1200A MDP.

FEEDER SCHEDULE

AMPS	CONDUIT SIZE 4W	CONDUIT SIZE 3W	PHASE CONDUCTORS	EQUIPMENT GROUND CONDUCTOR
20	3/4"	3/4"	#12	#12
25	3/4"	3/4"	#10	#10
30	3/4"	3/4"	#10	#10
35	1"	3/4"	#8	#10
40	1"	3/4"	#8	#10
45	1"	1"	#6	#10
50	1"	1"	#6	#10
60	1 1/4"	1 1/4"	#4	#10
70	1 1/4"	1 1/4"	#4	#8
80	1 1/4"	1 1/4"	#3	#8
90	1 1/2"	1 1/4"	#2	#8
100	1 1/2"	1 1/4"	#2	#8
110	2"	1 1/2"	#1	#6
125	2"	1 1/2"	#1	#6
150	2"	1 1/2"	#1/0	#6
175	2"	2"	#2/0	#6
200	2"	2"	#3/0	#6
225	2 1/2"	2"	#4/0	#4
250	3"	2 1/2"	250 kcmil	#4
300	3"	3"	350 kcmil	#4
350	3 1/2"	3"	500 kcmil	#3
400	(2) 2"	(2) 2"	2 SETS OF #3/0	#3
450	(2) 2 1/2"	(2) 2"	2 SETS OF #4/0	#2
500	(2) 2 1/2"	(2) 2 1/2"	2 SETS OF 250 kcmil	#2
600	(2) 3"	(2) 3"	2 SETS OF 350 kcmil	#1
700	(2) 3 1/2"	(2) 3"	2 SETS OF 500 kcmil	#1/0
800	(3) 3"	(3) 2 1/2"	3 SETS OF 300 kcmil	#1/0
900	(3) 3 1/2"	(3) 3"	3 SETS OF 400 kcmil	#2/0
1000	(3) 3 1/2"	(3) 3"	3 SETS OF 500 kcmil	#2/0
1200	(4) 3"	(4) 3"	4 SETS OF 350 kcmil	#3/0
1600	(5) 3 1/2"	(5) 3"	5 SETS OF 500 kcmil	#4/0
1800	(6) 3 1/2"	(6) 3"	6 SETS OF 400 kcmil	250 kcmil
2000	(6) 3 1/2"	(6) 3"	6 SETS OF 500 kcmil	250 kcmil
2500	(7) 3 1/2"	(7) 3"	7 SETS OF 500 kcmil	350 kcmil

NOTES:

1. FEEDER SIZES ARE ON THE PLAN WHERE 60 REFERS TO A 60A FEEDER WITHOUT NEUTRAL AND 60N REFERS TO A 60A FEEDER WITH NEUTRAL.
2. SOME FEEDER SIZES DO NOT MATCH BREAKER SIZE DUE TO UP-SIZING OF THE FEEDER FOR VOLTAGE DROP.
3. CONDUITS ARE SIZED PER NEC TABLES FOR THHN/THWN AND MAY BE UPSIZED FOR EASE OF PULLING OR DOWNSIZED AS ALLOWED PER NEC FOR CONDUIT TYPE(S) BEING INSTALLED.
4. ALL CONDUCTORS 100A AND LESS ARE SIZED PER 60 DEGREE LUGS, EC MAY SIZE CONDUCTORS FOR ACTUAL RATING OF LUGS PER NEC.



1 ELECTRICAL ONE-LINE DIAGRAM - NEW
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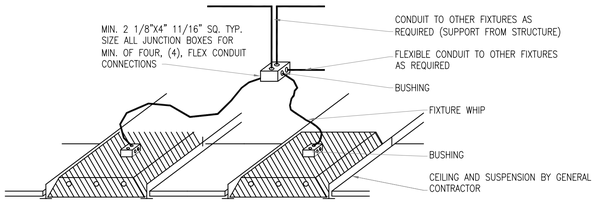
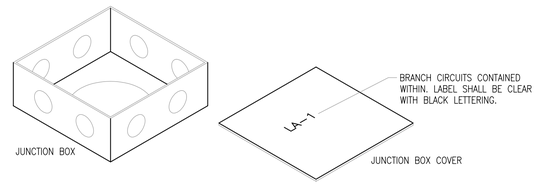
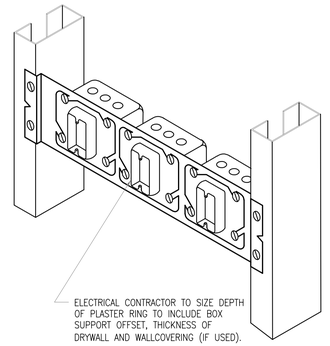
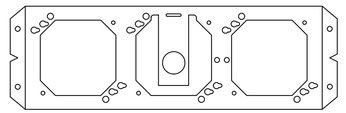


4 TYP.TROFFER POWER DETAIL
NOT TO SCALE

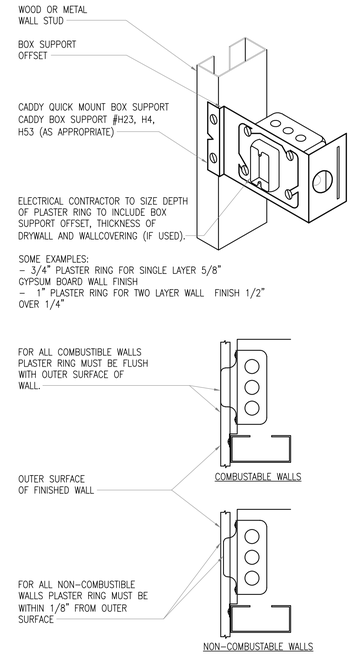


3 JUNCTION BOX DETAIL
NO SCALE

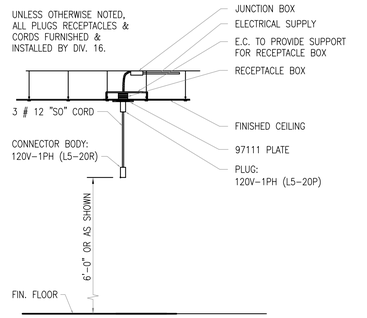




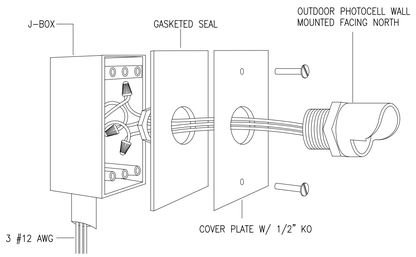
2 MULTIPLE BOX SUPPORT DETAIL
NO SCALE



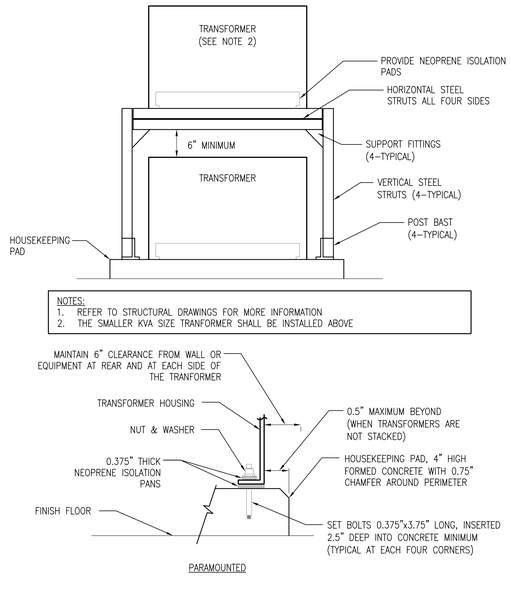
1 BOX SUPPORT DETAIL
NO SCALE



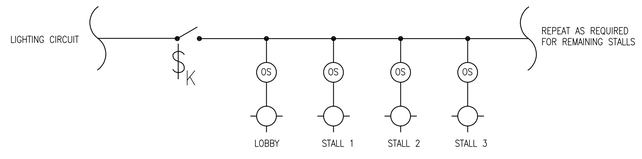
6 DROP CORD RECEPTACLE
NO SCALE



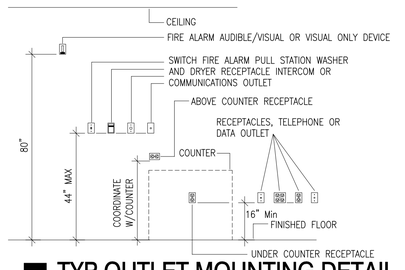
5 OUTDOOR PHOTOCELL
NOT TO SCALE



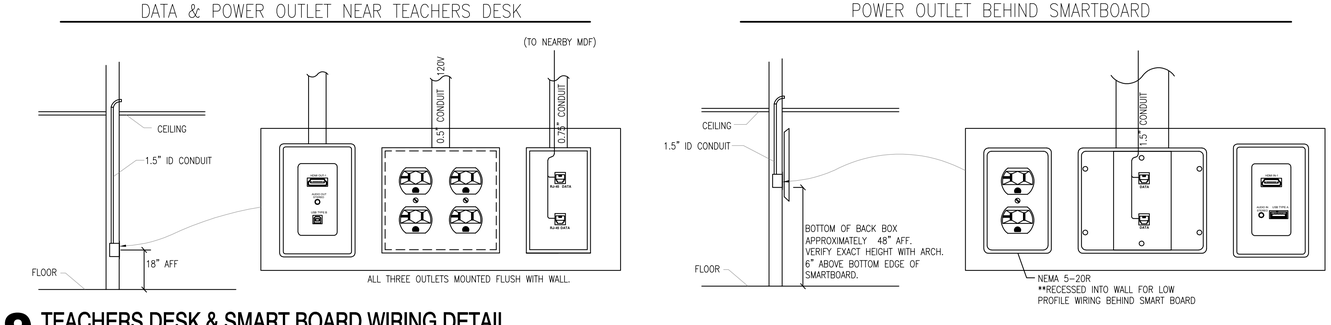
DRY-TYPE TRANFORMERS - PAD MOUNTED
10 AND CONCEPTUAL STACKED MOUNTING DETAIL
NOT TO SCALE



8 RESTROOM LIGHTING CONTROL DETAIL
NO SCALE



7 TYP OUTLET MOUNTING DETAIL
NOT TO SCALE



9 TEACHERS DESK & SMART BOARD WIRING DETAIL
NO SCALE

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KFC ENGINEERING
STRUCTURAL

SALAS O'BRIEN
MECHANICAL / ELECTRICAL

DW
drawn by

TVO
checked by

MARCH 2022
date

revisions

MOORE PUBLIC SCHOOLS
BOARD OF EDUCATION
MOORE, OKLAHOMA

MOORE Public Schools
LEARNING FOR LIFE

CLASSROOM ADDITION
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| expect a difference|
2600 Van Buren St., Suite 2635
Norman, Oklahoma 73072
P: 405.364.9926 | CA#:7058 Expiration Date: 6/30/2023

Salas O'Brien Project No.: 2021-02932-00

Panel MDP-2

ROOM EXISTING ELEC ROOM | VOLTS 480Y/277V 3P 4W | AIC 65,000
MOUNTING SURFACE | BUS AMPS 1200 | MAIN BKR MLO
FED FROM UTILITY | NEUTRAL 100% | LUGS STANDARD
NOTE EXISTING

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	225/3	59.7	PANEL H6	a	2	175/3	82	XFMR TM
3	|			b	4	|		
5	|			c	6	|		
7	100/3	0	AC-2	a	8	100/3	0	XFMR T4L
9	|			b	10	|		
11	|			c	12	|		
13	400/3	0	PANEL H4	a	14	400/3	0	PANEL H5
15	|			b	16	|		
17	|			c	18	|		
19	20/1	0	SPACE	a	20	20/1	0	SPACE
21	20/1	0	SPACE	b	22	20/1	0	SPACE
23	20/1	0	SPACE	c	24	20/1	0	SPACE

	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
LIGHTING	11.2	13.9	(125%)	RECEPTACLES	47.6	28.8	(50%>10)
LARGEST MOTOR	5.23	1.31	(25%)	HEATING	81.8	81.8	(100%)
MOTORS	1.21	1.21	(100%)	COOLING	77.8	0	(0%)

TOTAL LOAD 127
BALANCED 3-PHASE LOAD 153 A
PHASE A 98.7%
PHASE B 102%
PHASE C 99.1%

Panel H6

ROOM MECH/ELEC RM 1 | VOLTS 480Y/277V 3P 4W | AIC 65,000
MOUNTING SURFACE | BUS AMPS 225 | MAIN BKR 225
FED FROM MDP | NEUTRAL 100% | LUGS STANDARD
NOTE

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	20/1	1.72	LIGHTING	a	2	125/3	48.6	XFMR T6
3	20/1	0.814	LIGHTING	b	4	|		
5	20/1	1.49	LIGHTING	c	6	|		
7	20/1	0.912	LIGHTING	a	8	20/1	0	SPACE
9	20/1	1.68	LIGHTING	b	10	20/1	0	SPACE
11	20/1	1.72	LIGHTING	c	12	20/1	0	SPACE
13	20/1	0.488	LIGHTING	a	14	20/1	0	SPACE
15	20/1	1.72	LIGHTING	b	16	20/1	0	SPACE
17	20/1	0.551	LIGHTING	c	18	20/1	0	SPACE
19	20/1	0	SPACE	a	20	20/1	0	SPACE
21	20/1	0	SPACE	b	22	20/1	0	SPACE
23	20/1	0	SPACE	c	24	20/1	0	SPACE
25	20/1	0	SPACE	a	26	20/1	0	SPACE
27	20/1	0	SPACE	b	28	20/1	0	SPACE
29	20/1	0	SPACE	c	30	20/1	0	SPACE
31	20/1	0	SPACE	a	32	20/1	0	SPACE
33	20/1	0	SPACE	b	34	20/1	0	SPACE
35	20/1	0	SPACE	c	36	20/1	0	SPACE
37	20/1	0	SPACE	a	38	20/1	0	SPACE
39	20/1	0	SPACE	b	40	20/1	0	SPACE
41	20/1	0	SPACE	c	42	20/1	0	SPACE

	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
LIGHTING	11.1	13.9	(125%)	MOTORS	1.01	1.01	(100%)
LARGEST MOTOR	0.528	0.132	(25%)	RECEPTACLES	47.6	28.8	(50%>10)

TOTAL LOAD 43.8
BALANCED 3-PHASE LOAD 52.7 A
PHASE A 98.2%
PHASE B 105%
PHASE C 96.8%

Panel L6

ROOM MECH/ELEC RM 1 | VOLTS 208Y/120V 3P 4W | AIC 65,000
MOUNTING SURFACE | BUS AMPS 225 | MAIN BKR MLO
FED FROM T6 | NEUTRAL 100% | LUGS STANDARD
NOTE

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	20/1	0.72	RM 12 RECEPTACLE, SMARTBOARD, TEACHER DESK	a	2	20/1	1	RM 13 FRIDGE
3	20/1	0.36	RM 12 RECEPTACLE	b	4	20/1	1.5	RM 13 FREEZER
5	20/1	0.36	RM 12 RECEPTACLE	c	6	20/1	0.3	WATER COOLER
7	20/1	0.54	RM 12 RECEPTACLE	a	8	20/1	0.3	WATER COOLER
9	20/1	0.36	RM 12 RECEPTACLE	b	10	20/1	1	RM 22 FRIDGE
11	20/1	0.54	RM 12 RECEPTACLE	c	12	20/1	1.5	RM 22 FREEZER
13	20/1	0.54	RM 13 RECEPTACLE	a	14	20/1	1.5	RM 19 FREEZER
15	20/1	0.54	RM 13 RECEPTACLE	b	16	20/1	1	RM 19 FRIDGE
17	20/1	0.54	RM 14 RECEPTACLE	c	18	20/1	0.72	RM 9 RECEPTACLE, SMARTBOARD, TEACHER DESK
19	20/1	0.36	RM 14 RECEPTACLE	a	20	20/1	0.54	RM 9 RECEPTACLE
21	20/1	0.36	RM 14 RECEPTACLE	b	22	20/1	0.54	RM 9 RECEPTACLE
23	20/1	0.36	RM 14 RECEPTACLE	c	24	20/1	0.54	RM 6 RECEPTACLE
25	20/1	0.54	RM 14 RECEPTACLE	a	26	20/1	0.54	RM 6 RECEPTACLE
27	20/1	0.72	RM 14 RECEPTACLE, SMARTBOARD, TEACHER DESK	b	28	20/1	0.72	RM 6 RECEPTACLE, SMARTBOARD, TEACHER DESK
29	20/1	0.54	RM 15 RECEPTACLE	c	30	20/1	0.54	RM 4 RECEPTACLE
31	20/1	0.54	CORRIDOR 11 RECEPTACLE	a	32	20/1	0.54	RM 4 RECEPTACLE
33	20/1	0.72	RM 23 RECEPTACLE, SMARTBOARD, TEACHER DESK	b	34	20/1	0.72	RM 4 RECEPTACLE, SMARTBOARD, TEACHER DESK
35	20/1	0.36	RM 23 RECEPTACLE	c	36	20/1	0.72	CORRIDOR 7 RECEPTACLE
37	20/1	0.36	RM 23 RECEPTACLE	a	38	20/1	0.72	RM 10 RECEPTACLE, SMARTBOARD, TEACHER DESK
39	20/1	0.54	RM 23 RECEPTACLE	b	40	20/1	0.54	RM 10 RECEPTACLE
41	20/1	0.36	RM 23 RECEPTACLE	c	42	20/1	0.54	RM 10 RECEPTACLE
43	20/1	0.54	RM 23 RECEPTACLE	a	44	20/1	0.54	RM 8 RECEPTACLE
45	20/1	0.54	RM 22 RECEPTACLE	b	46	20/1	0.54	RM 8 RECEPTACLE
47	20/1	0.54	RM 22 RECEPTACLE	c	48	20/1	0.72	RM 8 RECEPTACLE, SMARTBOARD, TEACHER DESK
49	20/1	0.54	RM 21 RECEPTACLE	a	50	20/1	0.54	RM 5 RECEPTACLE
51	20/1	0.36	RM 21 RECEPTACLE	b	52	20/1	0.54	RM 5 RECEPTACLE
53	20/1	0.36	RM 21 RECEPTACLE	c	54	20/1	0.72	RM 5 RECEPTACLE, SMARTBOARD, TEACHER DESK
55	20/1	0.36	RM 21 RECEPTACLE	a	56	20/1	0.36	RM 1 RECEPTACLE, RM 3 RECEPTACLE
57	20/1	0.54	RM 21 RECEPTACLE	b	58	20/1	0.5	IT RECEPTACLE
59	20/1	0.72	RM 21 RECEPTACLE, SMARTBOARD, TEACHER DESK	c	60	20/1	0.5	IT RECEPTACLE
61	20/1	0.72	CORRIDOR 24 RECEPTACLE	a	62	20/1	0.5	IT RECEPTACLE
63	20/1	0.72	RM 18 RECEPTACLE, SMARTBOARD, TEACHER DESK	b	64	20/1	0.24	WH-1
65	20/1	0.36	RM 18 RECEPTACLE	c	66	20/1	0.24	WH-2
67	20/1	0.36	RM 18 RECEPTACLE	a	68	20/1	0.528	CP-1
69	20/1	0.54	RM 18 RECEPTACLE	b	70	20/1	0.72	TRAP PRIMER
71	20/1	0.36	RM 18 RECEPTACLE	c	72	20/1	0.72	TRAP PRIMER
73	20/1	0.54	RM 18 RECEPTACLE	a	74	20/1	0.54	TRAP PRIMER
75	20/1	0.54	RM 19 RECEPTACLE	b	76	20/1	0.36	TRAP PRIMER
77	20/1	0.54	RM 19 RECEPTACLE	c	78	20/1	0.72	TRAP PRIMER
79	20/1	0.54	RM 20 RECEPTACLE	a	80	20/1	0.72	ROOFTOP RECEPTACLE
81	20/1	0.36	RM 20 RECEPTACLE	b	82	20/1	0	SPACE
83	20/1	0.36	RM 20 RECEPTACLE	c	84	20/1	0	SPACE
85	20/1	0.36	RM 20 RECEPTACLE	a	86	20/1	0	SPACE
87	20/1	0.54	RM 20 RECEPTACLE	b	88	20/1	0	SPACE
89	20/1	0.72	RM 20 RECEPTACLE, SMARTBOARD, TEACHER DESK	c	90	20/1	0	SPACE
91	20/1	0	SPACE	a	92	20/1	0	SPACE
93	20/1	0	SPACE	b	94	20/1	0	SPACE
95	20/1	0	SPACE	c	96	20/1	0	SPACE
97	20/1	0	SPACE	a	98	20/1	0	SPACE
99	20/1	0	SPACE	b	100	20/1	0	SPACE
101	20/1	0	SPACE	c	102	20/1	0	SPACE
103	20/1	0	SPACE	a	104	20/1	0	SPACE
105	20/1	0	SPACE	b	106	20/1	0	SPACE
107	20/1	0	SPACE	c	108	20/1	0	SPACE

	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
LARGEST MOTOR	0.528	0.132	(25%)	MOTORS	1.01	1.01	(100%)
				RECEPTACLES	47.6	28.8	(50%>10)

TOTAL LOAD 29.9
BALANCED 3-PHASE LOAD 83.1 A
PHASE A 101%
PHASE B 103%
PHASE C 95.7%

Panel LM

ROOM MECH/ELEC RM 1 | VOLTS 208Y/120V 3P 4W | AIC 65,000
MOUNTING SURFACE | BUS AMPS 400 | MAIN BKR 400
FED FROM TM | NEUTRAL 100% | LUGS STANDARD
NOTE

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	20/2	2	EFH-1	a	2	45/2	4.69	CU-1
3	|			b	4	|		
5	20/1	0.1	EF-1	c	6	45/2	4.69	CU-2
7	20/1	0.1	EF-2	a	8	|		
9	25/1	1.66	F-1	b	10	45/2	4.69	CU-3
11	25/1	1.66	F-2	c	12	|		
13	25/1	1.66	F-3	a	14	45/2	4.69	CU-4
15	25/1	1.66	F-4	b	16	|		
17	30/1	1.92	F-5	c	18	50/2	5.23	CU-5
19	25/1	1.66	F-6	a	20	|		
21	25/1	1.66	F-7	b	22	45/2	4.69	CU-6
23	30/1	1.92	F-8	c	24	|		
25	25/1	1.66	F-9	a	26	45/2	4.69	CU-7
27	25/1	1.66	F-10	b	28	|		
29	25/1	1.66	F-11	c	30	50/2	5.23	CU-8
31	25/1	1.66	F-12	a	32	|		
33	20/2	2	EFH-2	b	34	45/2	4.69	CU-9
35	|		SPARE	c	36	|		
37	20/1	0	SPARE	a	38	45/2	4.69	CU-10
39	20/1	0	SPACE	b	40	|		
41	20/1	0	SPACE	c	42	45/2	4.69	CU-11
43	20/1	0	SPACE	a	44	|		
45	20/1	0	SPACE	b	46	45/2	4.69	CU-12
47	20/1	0	SPACE	c	48	|		
49	20/1	0	SPACE	a	50	20/1	0	SPARE
51	20/1	0	SPACE	b	52	20/1	0	SPARE
53	20/1	0	SPACE	c	54	20/1	0	SPARE

	CONN KVA	CALC KVA	
LARGEST MOTOR	5.23	1.31	(25%)
MOTORS	0.2	0.2	(100%)
HEATING	81.8	81.8	(100%)
COOLING	77.8	0	(0%)

	CALC KVA
TOTAL LOAD	83.3
BALANCED 3-PHASE LOAD	231 A
PHASE A	98.9%
PHASE B	100%
PHASE C	101%

MECHANICAL EQUIPMENT SCHEDULE

CALLOUT	DESCRIPTION	VOLTS	HP	KVA	MCA	MOCP	CIRCUIT	WIRE CALLOUT	DISCONNECT	DISC PROV BY	DISC INST BY
CP-1	CIRCULATION PUMP	120V 1P 2W	1/6 HP	0.53		20	L6-68	3/4"C,1#12,#12N,#12G	TOGGLE SWITCH	EC	EC
CU-1	CONDENSING UNIT	208V 2P 2W		4.69	28.2	45	LM-2,4	3/4"C,2#10,#10G	NON-FUSED	EC	EC
CU-2	CONDENSING UNIT	208V 2P 2W		4.69	28.2	45	LM-6,8	3/4"C,2#10,#10G	NON-FUSED	EC	EC
CU-3	CONDENSING UNIT	208V 2P 2W		4.69	28.2	45	LM-10,12	3/4"C,2#10,#10G	NON-FUSED	EC	EC
CU-4	CONDENSING UNIT	208V 2P 2W		4.69	28.2	45	LM-14,16	3/4"C,2#10,#10G	NON-FUSED	EC	EC
CU-5	CONDENSING UNIT	208V 2P 2W		5.23	31.4	50	LM-18,20	3/4"C,2#8,#10G	NON-FUSED	EC	EC
CU-6	CONDENSING UNIT	208V 2P 2W		4.69	28.2	45	LM-22,24	3/4"C,2#10,#10G	NON-FUSED	EC	EC
CU-7	CONDENSING UNIT	208V 2P 2W		4.69	28.2	45	LM-26,28	3/4"C,2#10,#10G	NON-FUSED	EC	EC
CU-8	CONDENSING UNIT	208V 2P 2W		5.23	31.4	50	LM-30,32	3/4"C,2#8,#10G	NON-FUSED	EC	EC
CU-9	CONDENSING UNIT	208V 2P 2W		4.69	28.2	45	LM-34,36	3/4"C,2#10,#10G	NON-FUSED	EC	EC
CU-10	CONDENSING UNIT	208V 2P 2W		4.69	28.2	45	LM-38,40	3/4"C,2#10,#10G	NON-FUSED	EC	EC
CU-11	CONDENSING UNIT	208V 2P 2W		4.69	28.2	45	LM-42,44	3/4"C,2#10,#10G	NON-FUSED	EC	EC
CU-12	CONDENSING UNIT	208V 2P 2W		4.69	28.2	45	LM-46,48	3/4"C,2#10,#10G	NON-FUSED	EC	EC
EF-1	EXHAUST FAN	120V 1P 2W	F HP	0.1	3.8	20	LM-5	3/4"C,1#10,#10N,#10G	TOGGLE SWITCH	MC	MC
EF-2	EXHAUST FAN	120V 1P 2W	F HP	0.1	3.8	20	LM-7	3/4"C,1#10,#10N,#10G	TOGGLE SWITCH	MC	MC
EFH-1	ELECTRIC FAN FORCED HEATER	208V 2P 2W		2	9.6	20	LM-1,3	3/4"C,2#10,#10G	TOGGLE SWITCH	MFR	MFR
EFH-2	ELECTRIC FAN FORCED HEATER	208V 2P 2W		2	9.6	20	LM-33,35	3/4"C,2#10,#10G	TOGGLE SWITCH	MFR	MFR
F-1	GAS FURNACE	120V 1P 2W	3/4 HP	1.66	13.8	25	LM-9	3/4"C,1#10,#10N,#10G	TOGGLE SWITCH	MFR	MFR
F-2	GAS FURNACE	120V 1P 2W	3/4 HP	1.66	13.8	25	LM-11	3/4"C,1#10,#10N,#10G	TOGGLE SWITCH	MFR	MFR
F-3	GAS FURNACE	120V 1P 2W	3/4 HP	1.66	13.8	25	LM-13	3/4"C,1#10,#10N,#10G	TOGGLE SWITCH	MFR	MFR
F-4	GAS FURNACE	120V 1P 2W	3/4 HP	1.66	13.8	25	LM-15	3/4"C,1#10,#10N,#10G	TOGGLE SWITCH	MFR	MFR
F-5	GAS FURNACE	120V 1P 2W	1 HP	1.92	16	30	LM-17	3/4"C,1#10,#10N,#10G	TOGGLE SWITCH	MFR	MFR
F-6	GAS FURNACE	120V 1P 2W	3/4 HP	1.66	13.8	25	LM-19	3/4"C,1#10,#10N,#10G	TOGGLE SWITCH	MFR	MFR
F-7	GAS FURNACE	120V 1P 2W	3/4 HP	1.66	13.8	25	LM-21	3/4"C,1#12,#12N,#12G	TOGGLE SWITCH	MFR	MFR
F-8	GAS FURNACE	120V 1P 2W	1 HP	1.92	16	30	LM-23	3/4"C,1#12,#12N,#12G	TOGGLE SWITCH	MFR	MFR
F-9	GAS FURNACE	120V 1P 2W	3/4 HP	1.66	13.8	25	LM-25	3/4"C,1#12,#12N,#12G	TOGGLE SWITCH	MFR	MFR
F-10	GAS FURNACE	120V 1P 2W	3/4 HP	1.66	13.8	25	LM-27	3/4"C,1#12,#12N,#12G	TOGGLE SWITCH	MFR	MFR
F-11	GAS FURNACE	120V 1P 2W	3/4 HP	1.66	13.8	25	LM-29	3/4"C,1#12,#12N,#12G	TOGGLE SWITCH	MFR	MFR
F-12	GAS FURNACE	120V 1P 2W	3/4 HP	1.66	13.8	25	LM-31	3/4"C,1#12,#12N,#12G	TOGGLE SWITCH	MFR	MFR
WH-1	WATER HEATER	120V 1P 2W		0.24	2	20	L6-64	3/4"C,1#12,#12N,#12G	DUPLEX RECEPTACLE	EC	EC
WH-2	WATER HEATER	120V 1P 2W		0.24	2	20	L6-66	3/4"C,1#12,#12N,#12G	DUPLEX RECEPTACLE	EC	EC

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