

LIGHT FIXTURE SCHEDULE				
TYPE	SYMBOL	DESCRIPTION	MANUFACTURER	REFERENCE CATALOG #
A		2X4 LED RECESSED TROFFER. 36W, 4100 LUMENS, 3500K CCT. 0-10V DIMMING.	COLUMBIA	LCAT24 35 LW GV
AE		2X4 LED RECESSED TROFFER. 36W, 4100 LUMENS, 3500K CCT. PROVIDE WITH UL924 DEVICE.	COLUMBIA	LCAT24 35 LW GV 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. PROVIDE WITH UL924 DEVICE.	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
EX		LED EXIT SIGN. STAINLESS STEEL FACE WITH RED LETTERS. UNIVERSAL FACE AND MOUNTING, SELF-DIAGNOSTIC, PROVIDE WITH UL924 DEVICE.	COMPASS	CCESRE/CCEDRE
F		2" LED VANITY FIXTURE. 15W, 1000 LUMENS, 3500K CCT. WALL MOUNTED, 0-10V DIMMING.	PINNACLE	EX3D WHE N 835VHO 2 WA U 0L2 1 XX

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
	TRANSFORMER
	UTILITY METER
	SEPARATE CIRCUIT BREAKER
	DISCONNECT
	FUSED DISCONNECT SWITCH
	EMERGENCY FUSED DISCONNECT SWITCH
	MOTOR STARTER/CONTRACTOR
	COMBINATION MOTOR STARTER
	PUSH BUTTON STATION AS NOTED
	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
	20A, 120/277V LETTER INDICATES GROUP
	20A, 120/277V 3-WAY
	20A, 120/277V 4-WAY
	DIMMER SWITCH
	KEY OPERATED SWITCH
	OCCUPANCY SENSOR SWITCH

GENERAL NOTE:
SEE SPECIFICATIONS FOR MANUFACTURERS

OCC SENSOR SCHEDULE	
SYMBOL	DESCRIPTION
	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:

- E.C. SHALL CONTACT ARCHITECT FOR COLOR SELECTION PRIOR TO ORDER OF ANY SENSOR.
- FOR CEILING SPACES 14 FT. A.F.F. PIR TYPE CEILING MOUNTED SENSORS SHALL BE USED.
- WALL MOUNTED DEVICES TO MATCH MANUAL LIGHTING CONTROL.

RECEPTACLE SCHEDULE	
SYMBOL	DESCRIPTION
	DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE, MTD. 6" ABOVE COUNTER OR HGT SHOWN
	DUPLEX RECEPTACLE, CEILING MOUNTED
	GFCI RECEPTACLE
	GFCI RECEPTACLE, MTD. 6" ABOVE COUNTER OR HGT SHOWN
	DUPLEX GFCI RECEPTACLE - WEATHER PROOF (IN USE COVER)
	FLOOR BOX
	JUNCTION BOX, AS NOTED
	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.G. 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	ANNUNCIATOR	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	
E000	ELECTRICAL TITLE
E001	ELECTRICAL SITE PLAN
E101	ELECTRICAL LIGHTING PLAN
E201	ELECTRICAL POWER PLAN
E202	ELECTRICAL POWER PLAN - ROOF
E401	ELECTRICAL ONE-LINE DIAGRAM
E501	ELECTRICAL SCHEDULES
E601	ELECTRICAL DETAILS

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NEW CLASSROOM
ADDITION -
SOUTH LAKE
ELEMENTARY SCHOOL

sheet no:

E000



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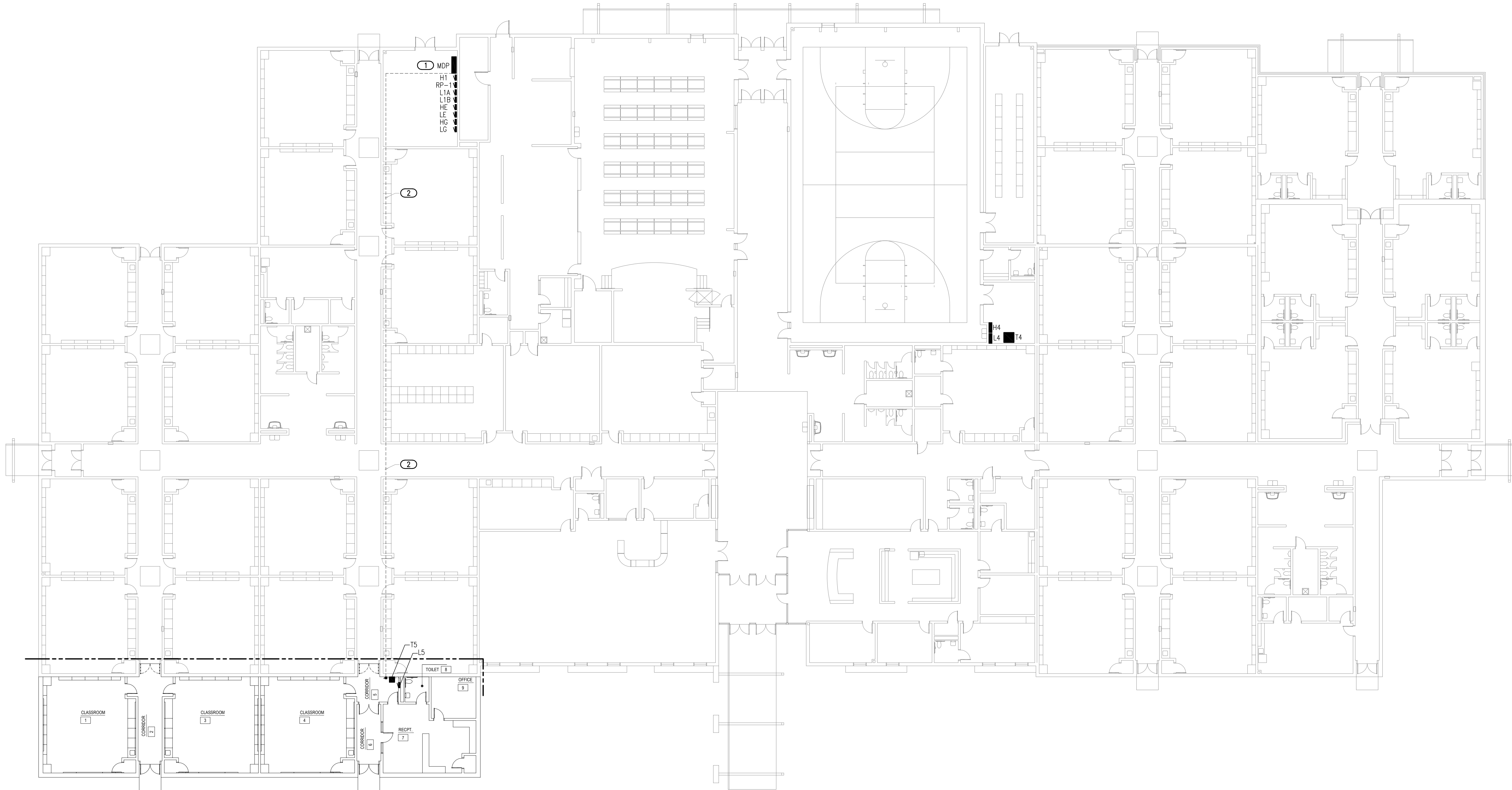
E001

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 PROVIDE NEW 70A/30 BREAKER FOR EXISTING 'MDP'. BREAKER SHALL REPLACE AN EXISTING UNUSED 20A/30 BREAKER. REFER TO SHEET E401 FOR ADDITIONAL INFORMATION REGARDING EXISTING AND NEW PANEL CONNECTIONS.
- 2 PROPOSED CONDUIT FEED FOR NEW TRANSFORMER 'T5' AND NEW PANEL 'L5'.





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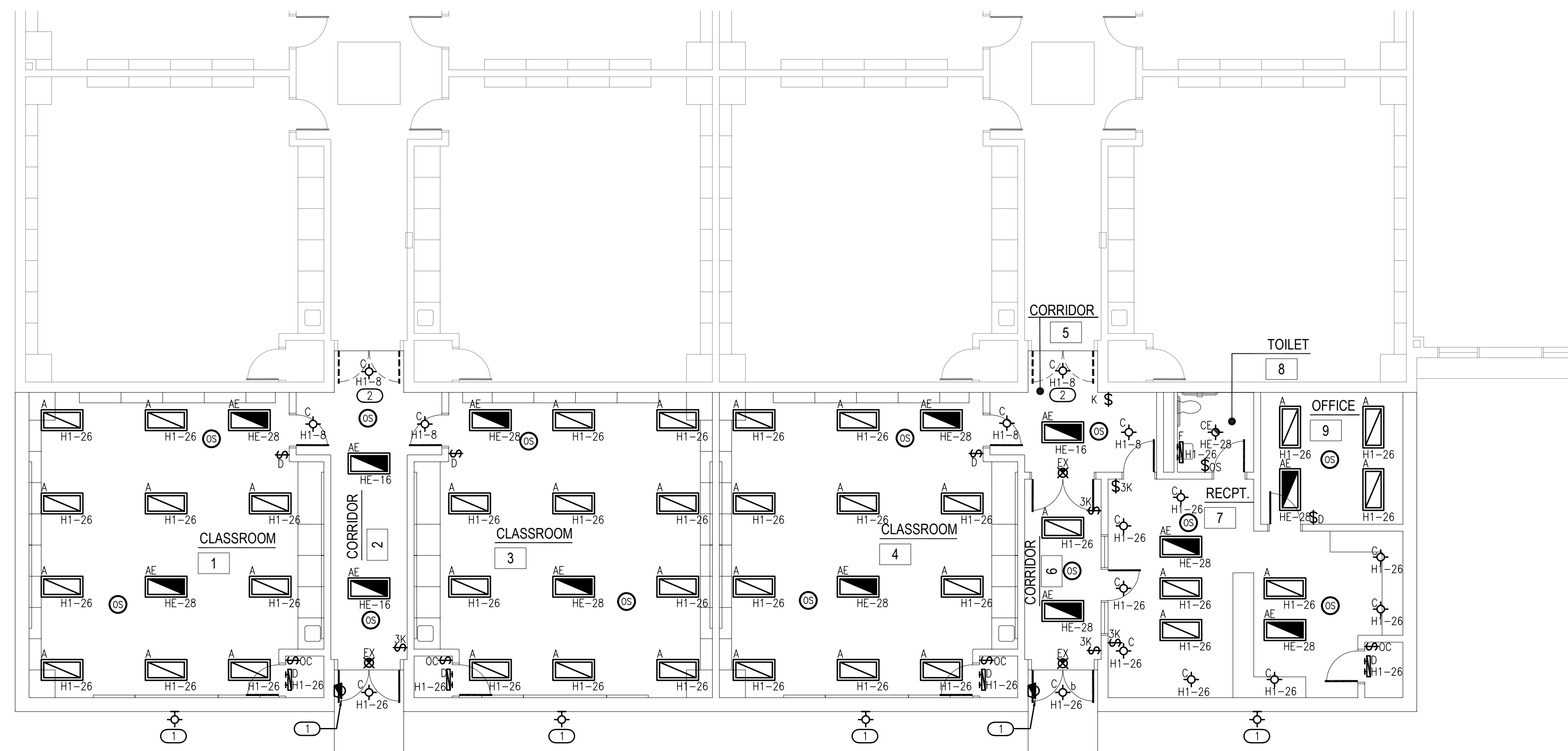
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GENERAL NOTES

1. OCCUPANCY SENSOR LOCATIONS ARE FOR DESIGN INTENT ONLY. LOCATE OCCUPANCY SENSORS PER MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.
2. EC SHALL FEED ALL NEW LIGHTING CIRCUITS FROM EXISTING PANELS 'H1' & 'HE' LOCATED WITHIN EXISTING MAIN ELECTRICAL ROOM. REFER TO SHEETS 'E001', 'E401' AND 'E501' FOR ADDITIONAL INFORMATION REGARDING EXISTING PANELS AND CIRCUITS.
3. NEW FIXTURES WITHIN CORRIDOR 2 AND CORRIDOR 5 SHALL BE EXTENDED FROM EXISTING NORMAL AND EMERGENCY LIGHTING CIRCUITS WITHIN ADJACENT EXISTING CORRIDORS. EC SHALL VERIFY IF EXISTING CIRCUITS AND CONTROLS MAY BE REUSED/EXTENDED. THESE CIRCUITS ARE BELIEVED TO BE 'H1-8' AND 'HE-16' AT THE TIME OF DESIGN. REFER TO SHEETS 'E001', 'E401' AND 'E501' FOR ADDITIONAL INFORMATION REGARDING EXISTING PANELS AND CIRCUITS.
4. PROVIDE #10 WIRE FOR ALL NEW LIGHTING CIRCUITS.
5. COORDINATE EXACT LOCATIONS AND MOUNTING HEIGHTS OF LIGHT FIXTURES WITH HVAC EQUIPMENT AND OTHER DEVICES/EQUIPMENT.
6. COORDINATE LIGHT SWITCHES WITH THERMOSTATS AND OTHER WALL MOUNTED DEVICES.

KEYED NOTES

- 1 EXISTING LIGHT FIXTURES SHALL BE RELOCATED TO SOUTH SIDE OF NEW ADDITION. EC SHALL EXTEND EXISTING CIRCUITS AND CONTROLS AS NEEDED. COORDINATE EXACT LOCATIONS AND REQUIREMENTS WITH ARCHITECT PRIOR TO ROUGH-IN.
- 2 EXISTING CAN LIGHT SHALL BE REPLACED WITH NEW TYPE 'C' FIXTURE IN THE SAME LOCATION. CIRCUIT NEW FIXTURE AS INDICATED.

1 ELECTRICAL LIGHTING PLAN

1/8" = 1'-0"





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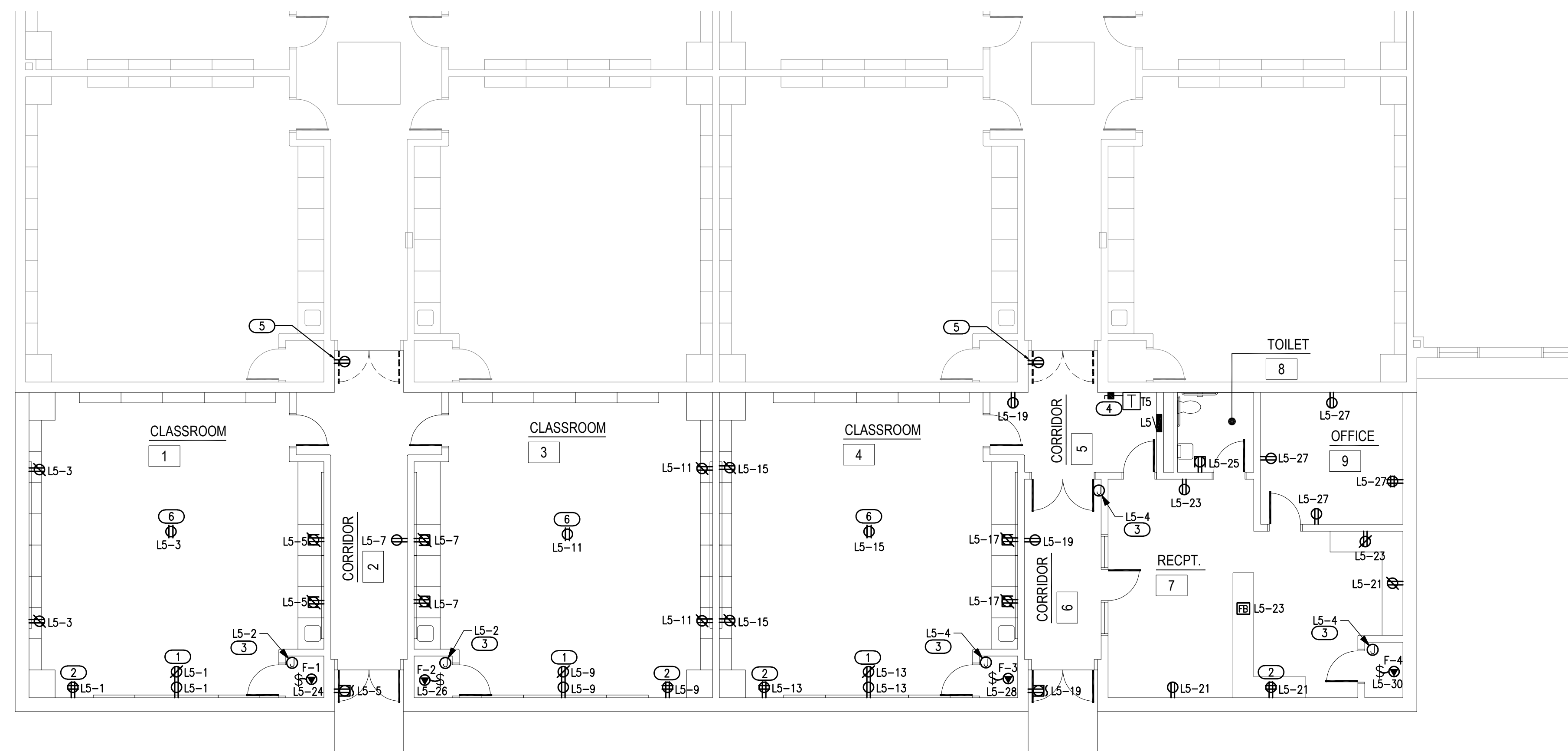
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- GENERAL NOTES**
- COORDINATE EXACT LOCATIONS OF DEVICES SHOWN WITH OTHER EQUIPMENT. COORDINATE EXACT LOCATIONS OF CEILING MOUNTED DEVICES WITH LIGHTS, HVAC EQUIPMENT, AND OTHER DEVICES.
 - COORDINATE WITH MC AND PROVIDE ALL RELAYS, CONNECTIONS, AND ALL DEVICES NECESSARY TO INTERLOCK EXHAUST FANS, DAMPERS, ETC WITH PROPER CONTROL DEVICES.
 - COORDINATE EXACT LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR.
 - FLOOR BOXES INDICATED ON DRAWING SHALL BE EQUAL TO LEGRAND RFB 2-GANG BOX. REFER TO DETAIL '5/E601' FOR ADDITIONAL INFORMATION.

- KEYED NOTES**
- RECEPTACLE FOR SMART BOARD (BY OWNER) IN A RECESSED BACK BOX. REFER TO DETAIL 'E501/6' FOR ADDITIONAL INFORMATION.
 - APPROXIMATE LOCATION OF TEACHERS DESK. COORDINATE FINAL LOCATION AND REQUIREMENTS WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN. REFER TO DETAIL 'E501/6' FOR ADDITIONAL INFORMATION.
 - PROVIDE 120V CONNECTION FOR TRAP PRIMER. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH IN. REFER TO DETAIL '1/P501' FOR ADDITIONAL INFORMATION.
 - NEW TRANSFORMER 'T5' AND ASSOCIATED DISCONNECT SHALL BE INSTALLED ABOVE CEILING GRID, MOUNTED FROM STRUCTURE ABOVE.
 - EXISTING WEATHERPROOF RECEPTACLE SHALL REMAIN. REMOVE COVER AND PROVIDE NEW DEVICE, FACEPLATE, AND ANY MATERIALS NECESSARY FOR A FLUSH MOUNTING.
 - PROVIDE CEILING MOUNTED RECEPTACLE FOR FUTURE PROJECTOR CONNECTION. COORDINATE EXACT LOCATIONS AND REQUIREMENTS WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN.

1 ELECTRICAL POWER PLAN
1/8" = 1'-0"



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.

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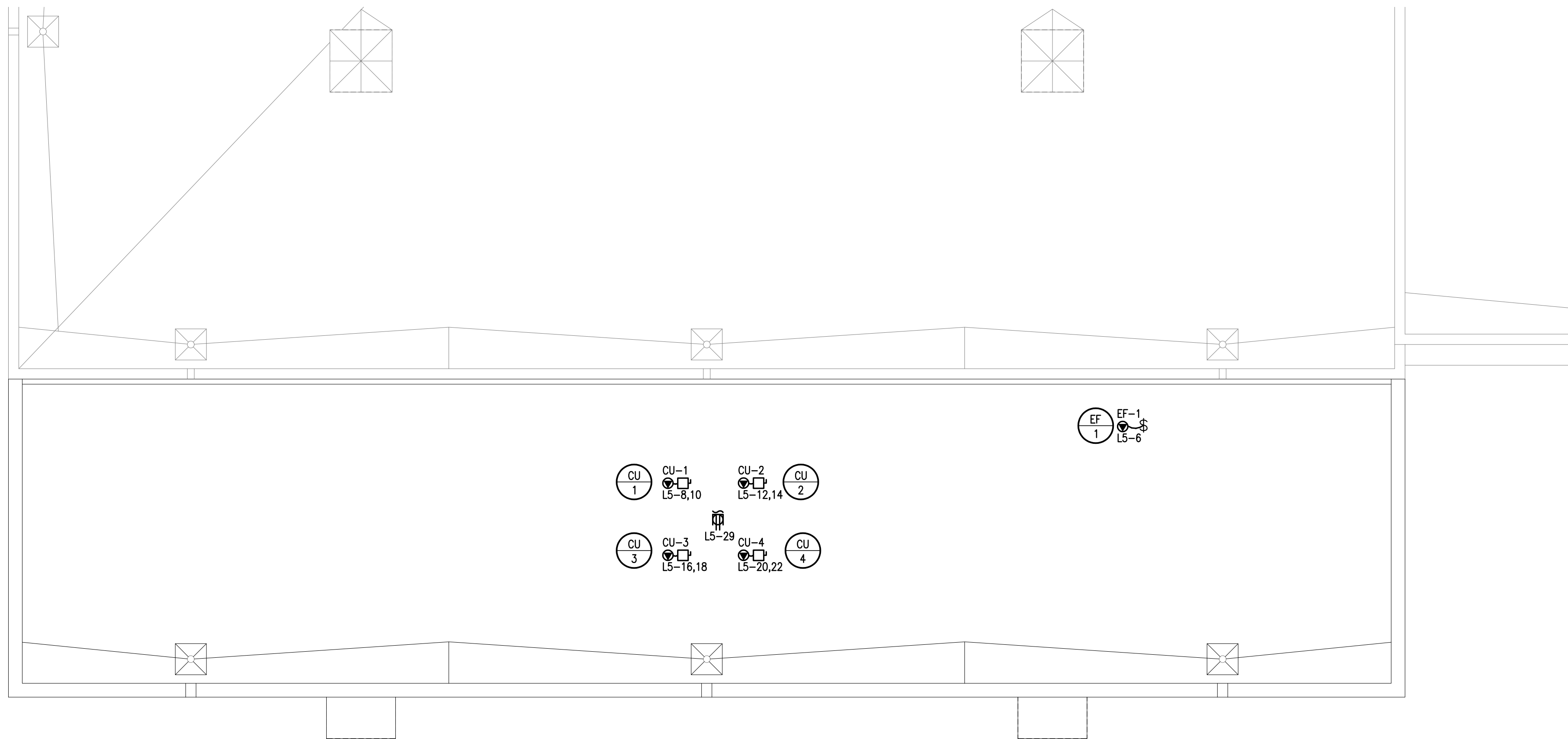
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1 ELECTRICAL POWER PLAN - ROOF
1/8" = 1'-0"



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GENERAL NOTES

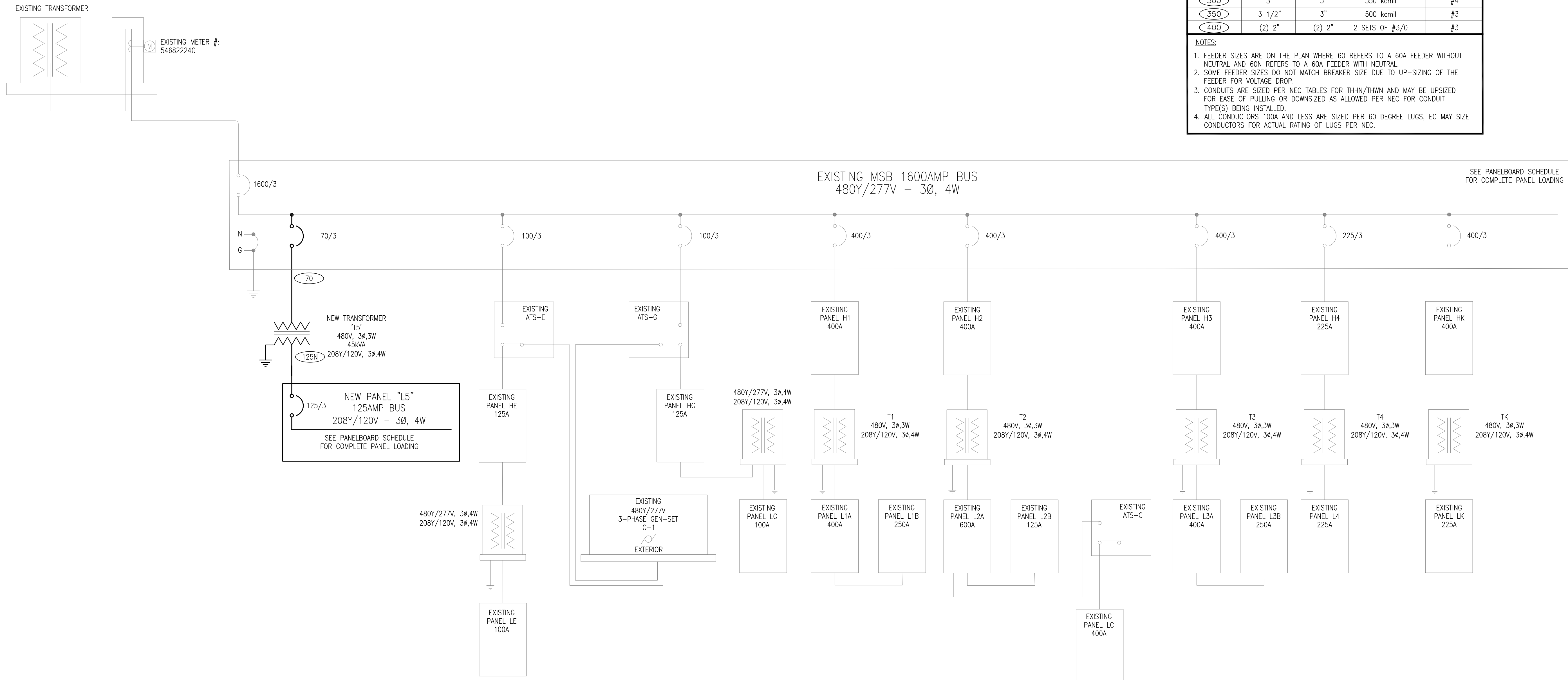
- AIC RATINGS ARE ESTIMATED BASED ON AVAILABLE DATA DURING DESIGN. CONTRACTOR TO VERIFY AVAILABLE FAULT CURRENT WITH UTILITY.
- FAULT CURRENT, ARC FLASH, AND COORDINATION STUDY SHALL BE PERFORMED BY A THIRD PARTY ONCE EXACT PANEL PLACEMENT AND DISTANCES ARE DETERMINED. REFER TO SPECIFICATIONS SECTION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

FEEDER SCHEDULE

AMPS	CONDUIT SIZE 4W	CONDUIT SIZE 3W	PHASE CONDUCTORS	EQUIP. GROUND CONDUCTORS
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"	#2	#8
90	1 1/2"	1 1/4"	#2	#8
100	1 1/2"	1 1/2"	#1	#8
110	2"	1 1/2"	#1	#6
125	2"	1 1/2"	#1/0	#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

NOTES:

- FEEDER SIZES ARE ON THE PLAN WHERE 60 REFERS TO A 60A FEEDER WITHOUT NEUTRAL AND 60N REFERS TO A 60A FEEDER WITH NEUTRAL.
- SOME FEEDER SIZES DO NOT MATCH BREAKER SIZE DUE TO UP-SIZING OF THE FEEDER FOR VOLTAGE DROP.
- 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.
- 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

NO SCALE

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Panel		ROOM	MAIN MECH/ELEC	VOLTS	480Y/277V 3P 4W	AIC	65,000
H1		MOUNTING	SURFACE	BUS AMPS	400	MAIN BKR	MLO
		FED FROM	MSB	NEUTRAL	100%	LUGS	STANDARD
		NOTE	EXISTING				
CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	20/3	11.6	P-1	a 2	20/1	3.4	LTS RM 25,26,27,28
3				b 4	20/1	1.5	LTS WORK RM, MAIN RESTROOM
5				c 6	20/1	3.4	LTS RM 13,14,15,16
7	20/3	11.6	P-2	a 8	20/1	3.2	LTS CORR 76,81,87,100
9				b 10	20/1	1	LTS EXTERIOR
11				c 12	20/1	1	LTS EXTERIOR
13	40/3	22.4	P-3	a 14	20/1	1.5	LTS NORTH PARKING
15				b 16	20/1	1.5	LTS NORTH PARKING
17				c 18	20/1	1.73	LTS WEST PARKING
19	40/3	22.4	P-4	a 20	50/3	29	DOAU-4
21				b 22			
23				c 24			
25	20/3	5	EF H-8	a 26	20/1	1.79	SOUTHWEST ADDITION LIGHTING
27				b 28	20/1	0	SPACE
29				c 30	20/1	0	SPACE
31	35/3	18	DOAU-5	a 32	20/1	0	SPACE
33				b 34	20/1	0	SPACE
35				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	20	25	(125%)	LARGEST MOTOR	29
				MOTORS	120
				TOTAL LOAD	152
				BALANCED 3-PHASE LOAD	183 A
				PHASE A	107%
				PHASE B	94.3%
				PHASE C	98.8%

Panel		ROOM	MAIN MECH/ELEC	VOLTS	480Y/277V 3P 4W	AIC	22,000
HE		MOUNTING	SURFACE	BUS AMPS	100	MAIN BKR	MLO
		FED FROM	ATS-E	NEUTRAL	100%	LUGS	STANDARD
		NOTE	EXISTING				
CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	25/3	1.5	XFMR TE	a 2	20/1	0.8	EM LTS GYM
3				b 4	20/1	1.7	EM LTS CAFETERIA a,b
5				c 6	20/1	1.7	EM LTS CAFETERIA c,d
7	20/1	0	SPACE	a 8	20/1	1.2	EM LTS KITCHEN, MECH
9	20/1	0	SPACE	b 10	20/1	1.1	EM LTS LIBRARY
11	20/1	0	SPACE	c 12	20/1	3	EM LTS LOBBY
13	20/1	0	SPACE	a 14	20/1	0.8	EM LTS CORR 113
15	20/1	0	SPACE	b 16	20/1	1.4	EM LTS CORR 73,76,81,87,100
17	20/1	0	SPACE	c 18	20/1	1.2	EM LTS CORR 19,20,23,30,42,50
19	20/1	0	SPACE	a 20	20/1	0.5	LTS EXIT
21	20/1	0	SPACE	b 22	20/1	0.5	LTS EXIT
23	20/1	0	SPACE	c 24	20/1	0.65	LTS SAFE ROOM
25	20/1	0	SPACE	a 26	20/1	0	KINDERGARTEN HS
27	20/1	0	SPACE	b 28	20/1	0.422	EM SOUTHWEST ADDITION LIGHTING
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	30/3	0	SPD	a 38	20/1	0	SPACE
39				b 40	20/1	0	SPACE
41				c 42	20/1	0	SPACE

	CONN KVA	CALC KVA		CALC KVA
LIGHTING	15	18.7	(125%)	TOTAL LOAD
RECEPTACLES	1.5	1.5	(50%>10)	BALANCED 3-PHASE LOAD
				PHASE A
				PHASE B
				PHASE C

Panel		ROOM	CORRIDOR 5	VOLTS	208Y/120V 3P 4W	AIC	65,000
L5		MOUNTING	FLUSH	BUS AMPS	125	MAIN BKR	125
		FED FROM	T5	NEUTRAL	100%	LUGS	STANDARD
		NOTE	EXISTING				
CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	20/1	0.72	RM 1 RECEPTACLES, SMARTBOARD, TEACHER DESK	a 2	20/1	0.36	TRAP PRIMER
3	20/1	0.54	RM 1 RECEPTACLES	b 4	20/1	0.54	TRAP PRIMER
5	20/1	0.54	CORRIDOR 2, RM 1 RECEPTACLES	c 6	20/1	0.1	EF-1
7	20/1	0.54	CORRIDOR 2, RM 3 RECEPTACLES	a 8	35/2	3.56	CU-1
9	20/1	0.72	RM 3 RECEPTACLES, SMARTBOARD, TEACHER DESK	b 10			
11	20/1	0.54	RM 3 RECEPTACLES	c 12	45/2	4.69	CU-2
13	20/1	0.72	RM 4 RECEPTACLES, SMARTBOARD, TEACHER DESK	a 14			
15	20/1	0.54	RM 4 RECEPTACLES	b 16	45/2	4.69	CU-3
17	20/1	0.36	RM 4 RECEPTACLES	c 18			
19	20/1	0.54	CORRIDOR RECEPTACLES	a 20	35/2	3.56	CU-4
21	20/1	0.72	RM 7 RECEPTACLE, TEACHER DESK	b 22			
23	20/1	0.72	RM 7 RECEPTACLE	c 24	20/1	1.18	F-1
25	20/1	0.18	RM 8 RECEPTACLE	a 26	20/1	1.66	F-2
27	20/1	0.9	RM 9 RECEPTACLE, TEACHER DESK	b 28	20/1	1.66	F-3
29	20/1	0.18	ROOF RECEPTACLE	c 30	20/1	1.18	F-4
31	20/1	0	SPARE	a 32	20/1	0	SPARE
33	20/1	0	SPARE	b 34	20/1	0	SPARE
35	20/1	0	SPARE	c 36	20/1	0	SPARE
37	20/1	0	SPARE	a 38	20/1	0	SPARE
39	20/1	0	SPACE	b 40	20/1	0	SPARE
41	20/1	0	SPACE	c 42	20/1	0	SPARE

	CONN KVA	CALC KVA		CONN KVA	CALC KVA
LARGEST MOTOR	4.69	1.17	(25%)	RECEPTACLES	9.36
MOTORS	0.1	0.1	(100%)	HEATING	22.2
				COOLING	22.2
				TOTAL LOAD	32.8
				BALANCED 3-PHASE LOAD	91.1 A
				PHASE A	101%
				PHASE B	100%
				PHASE C	89.8%

MECHANICAL EQUIPMENT SCHEDULE											
CALLOUT	DESCRIPTION	VOLTS	HP	KVA	MCA	MOCPP	CIRCUIT	WIRE CALLOUT	DISCONNECT	DISC PROV BY	DISC INST BY
CU-1	CONDENSING UNIT	208V 2P 2W		3.56	21.4	35	L5-8,10	3/4"C,2#10,#10G	NON-FUSED	EC	EC
CU-2	CONDENSING UNIT	208V 2P 2W		4.69	28.2	45	L5-12,14	3/4"C,2#10,#10G	NON-FUSED	EC	EC
CU-3	CONDENSING UNIT	208V 2P 2W		4.69	28.2	45	L5-16,18	3/4"C,2#10,#10G	NON-FUSED	EC	EC
CU-4	CONDENSING UNIT	208V 2P 2W		3.56	21.4	35	L5-20,22	3/4"C,2#10,#10G	NON-FUSED	EC	EC
EF-1	EXHAUST FAN	120V 1P 2W		0.1	3.8	20	L5-6	3/4"C,1#10,#10N,#10G	TOGGLE SWITCH	MC	MC
F-1	GAS FURNACE	120V 1P 2W	1/2 HP	1.18	9.8	20	L5-24	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	20	L5-26	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	20	L5-28	3/4"C,1#12,#12N,#12G	TOGGLE SWITCH	MFR	MFR
F-4	GAS FURNACE	120V 1P 2W	1/2 HP	1.18	9.8	20	L5-30	3/4"C,1#12,#12N,#12G	TOGGLE SWITCH	MFR	MFR



BB
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TVO
checked by
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date
revisions

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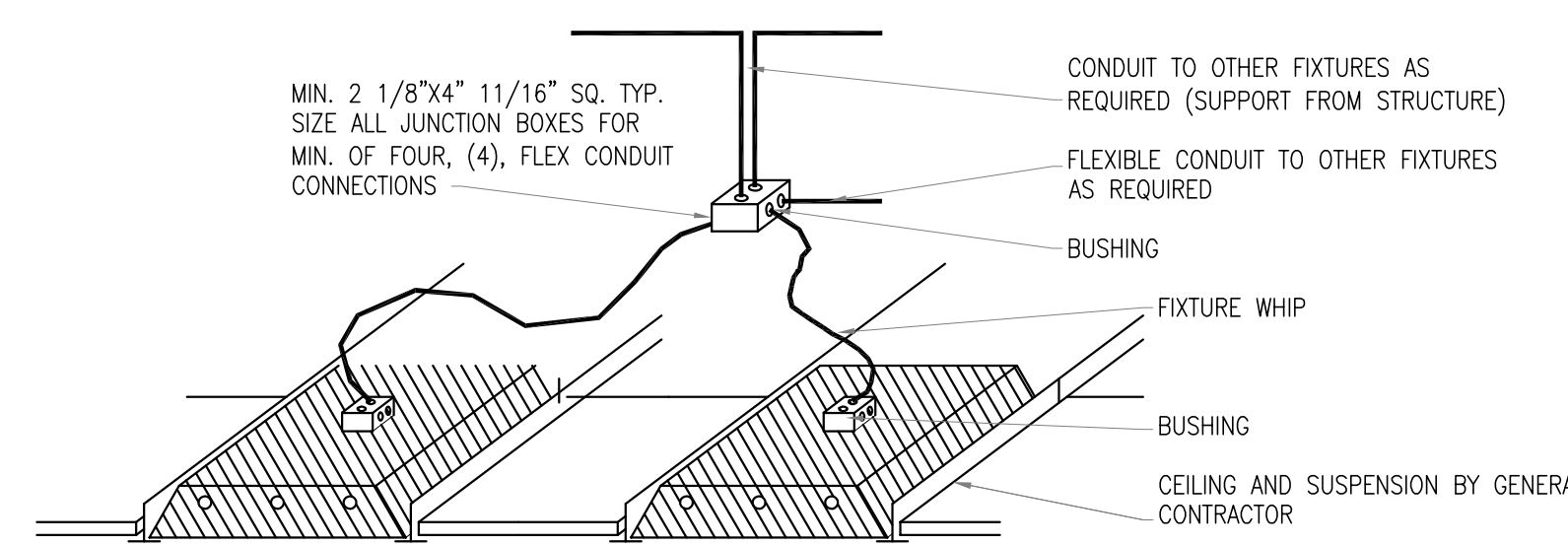


NEW CLASSROOM
ADDITION -
SOUTH LAKE
ELEMENTARY SCHOOL

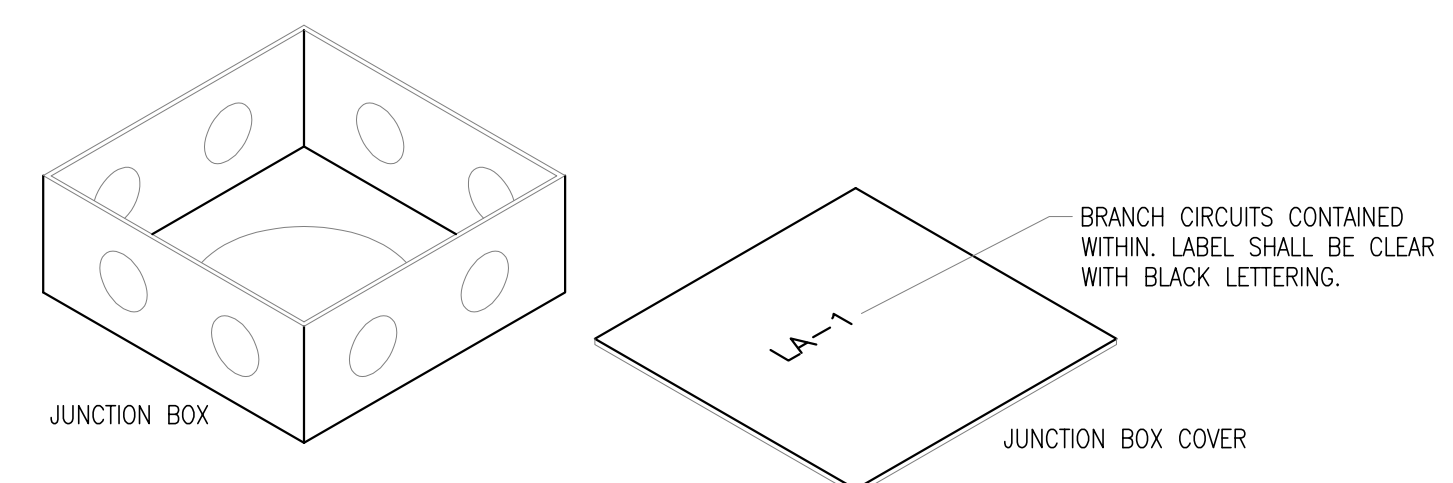
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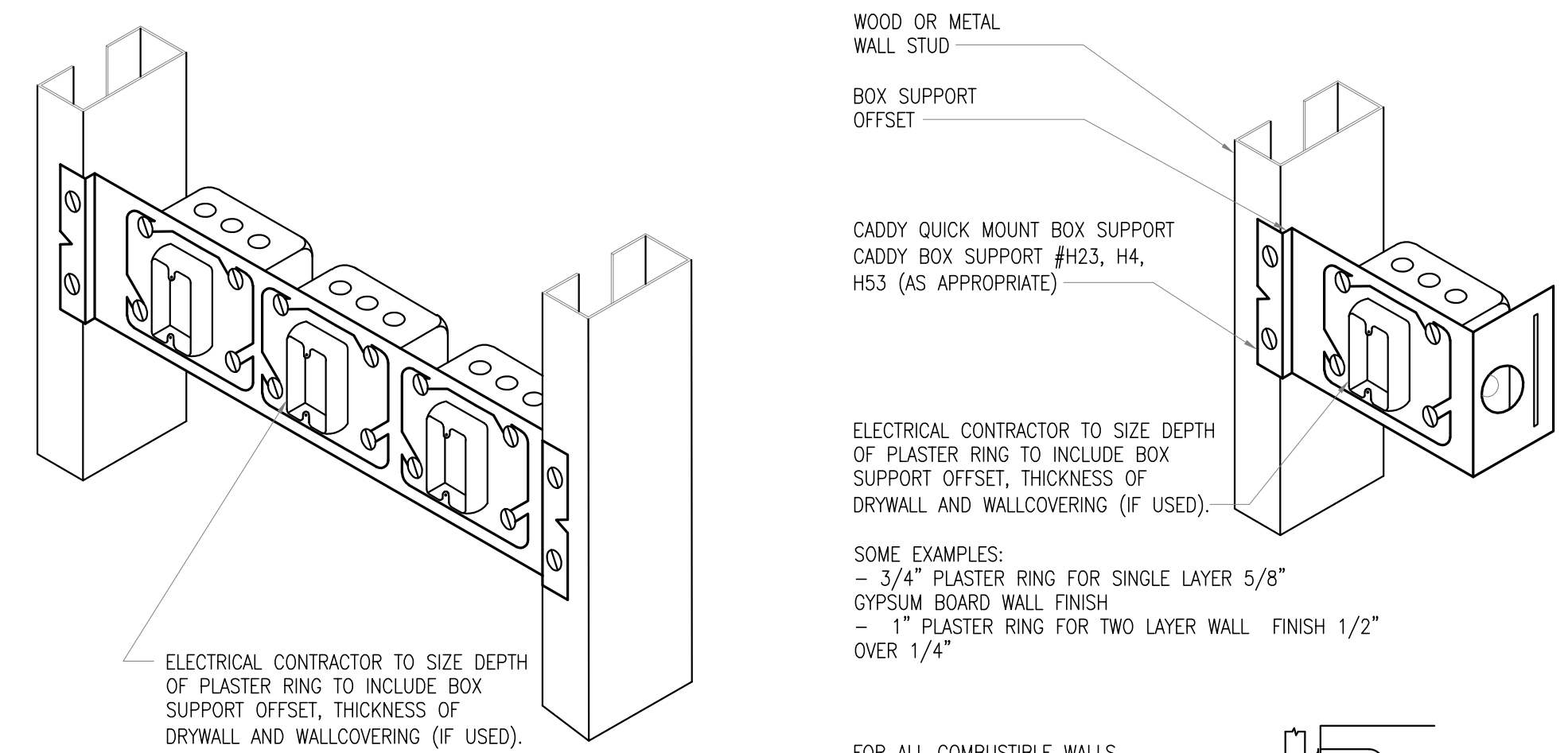
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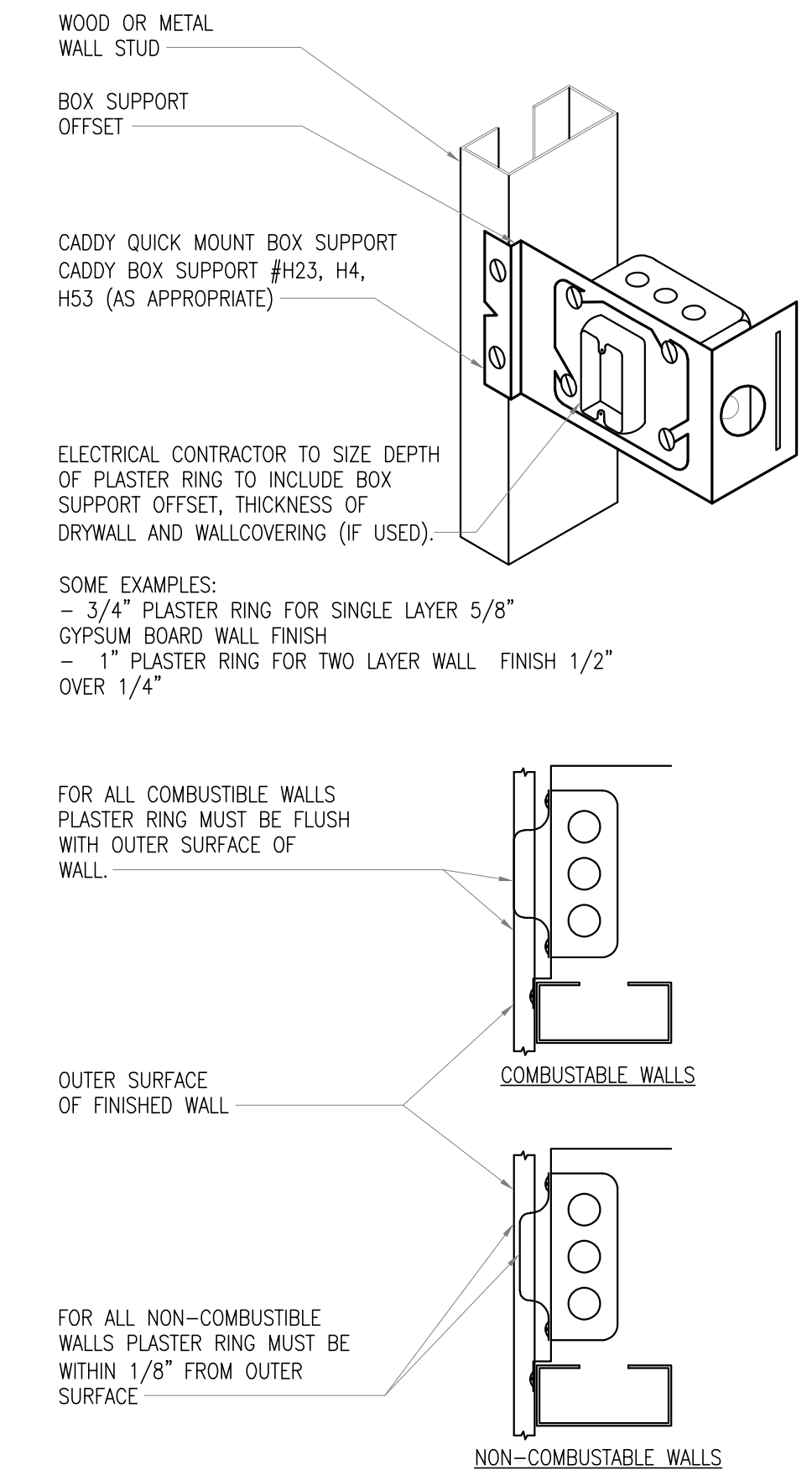
4 TYP. TROFFER POWER DETAIL
NOT TO SCALE



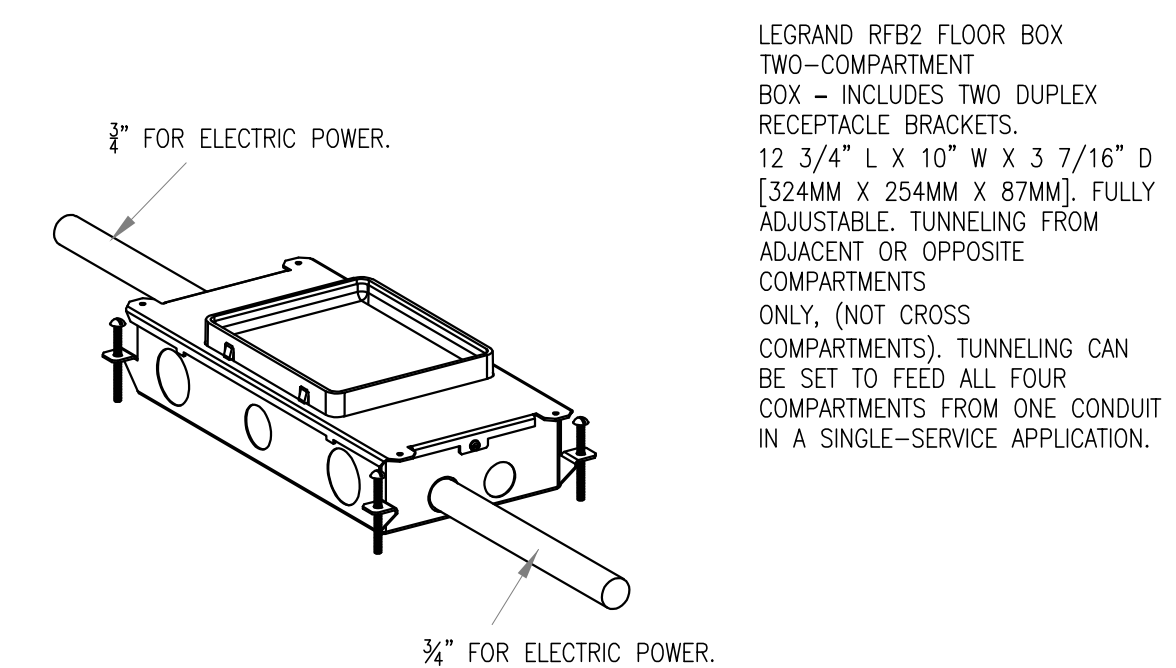
3 JUNCTION BOX DETAIL
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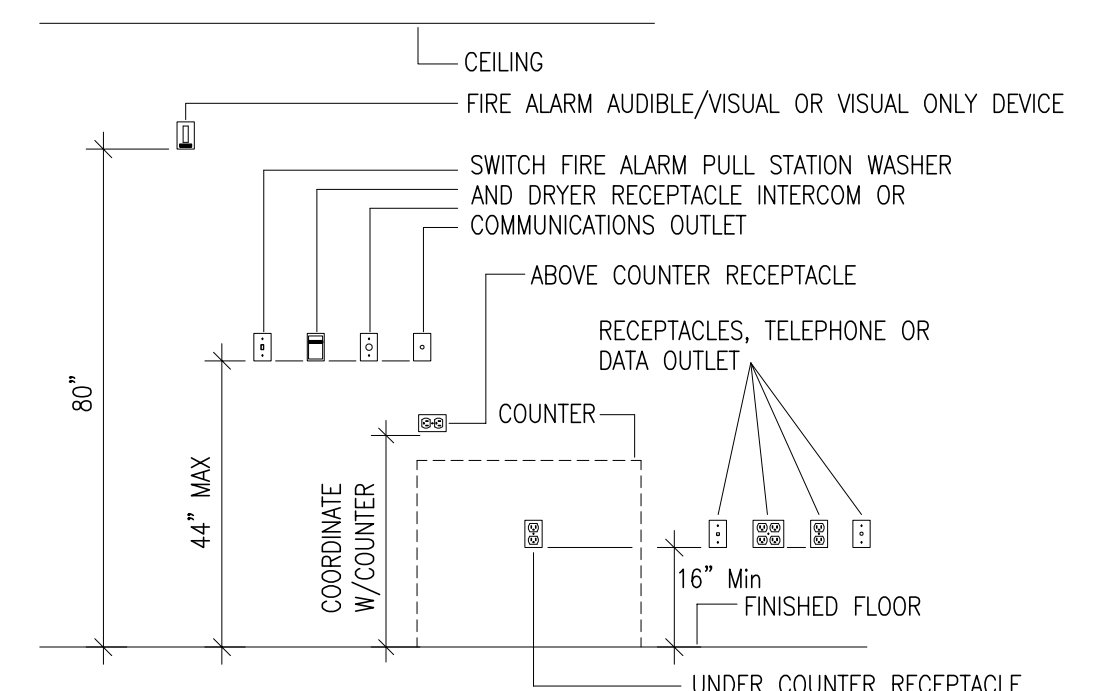
2 MULTIPLE BOX SUPPORT DETAIL
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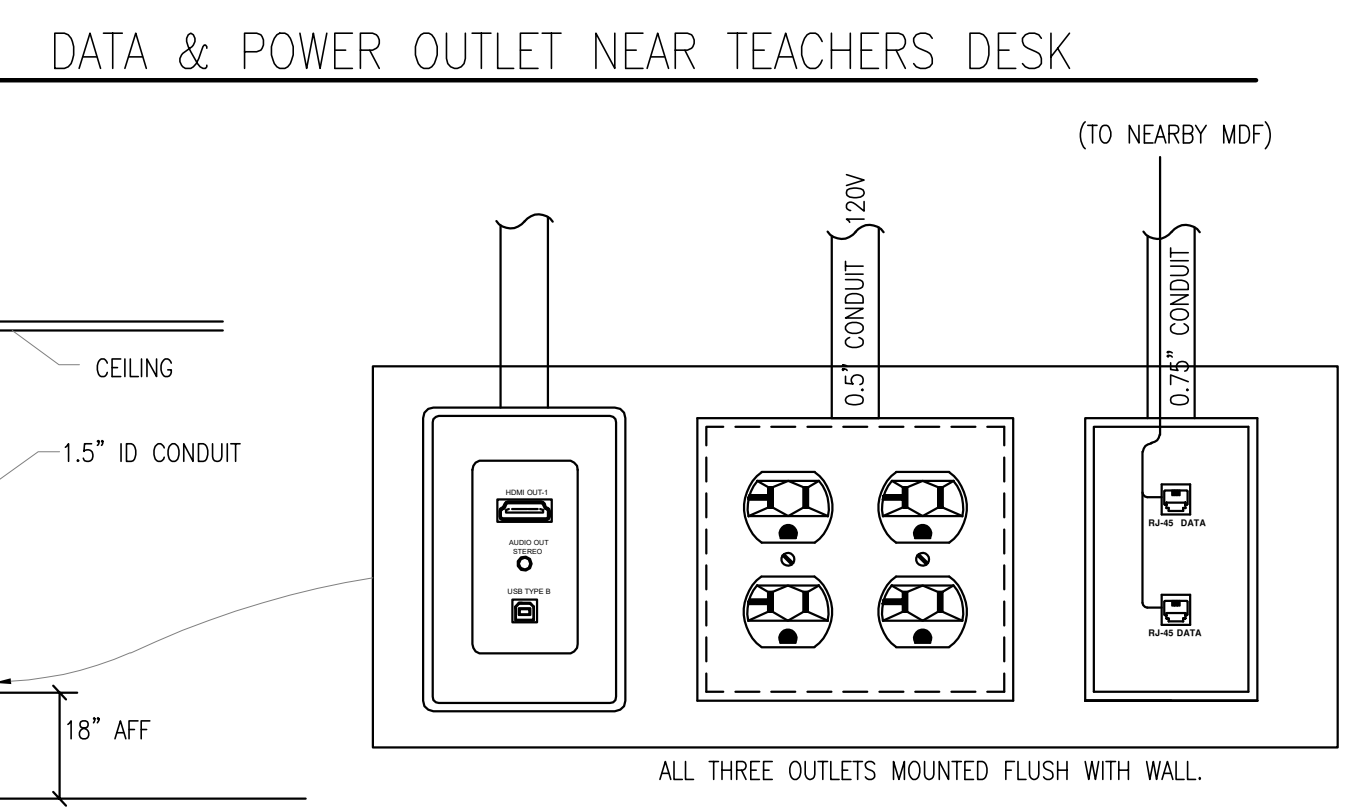
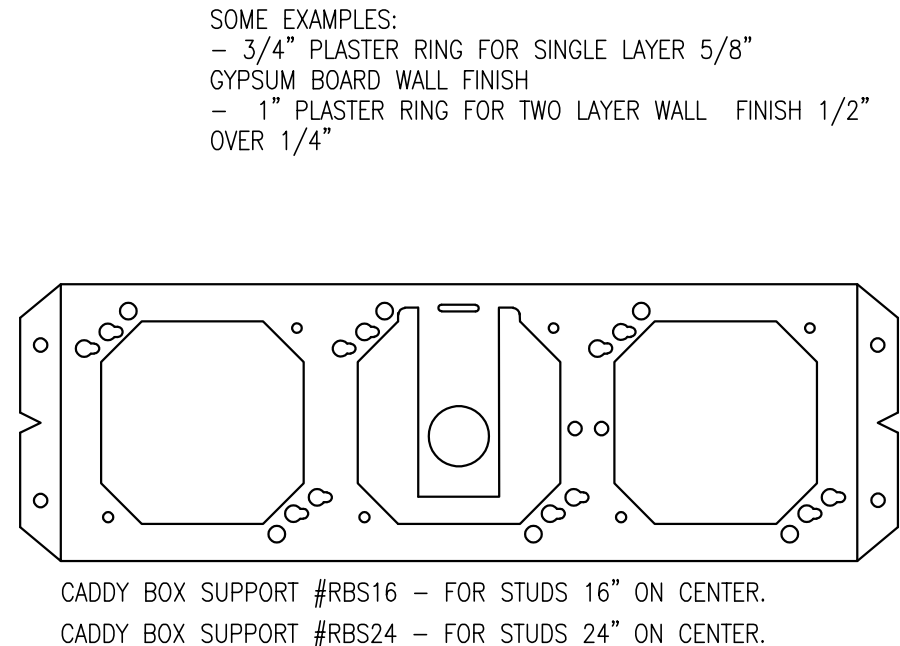
1 BOX SUPPORT DETAIL
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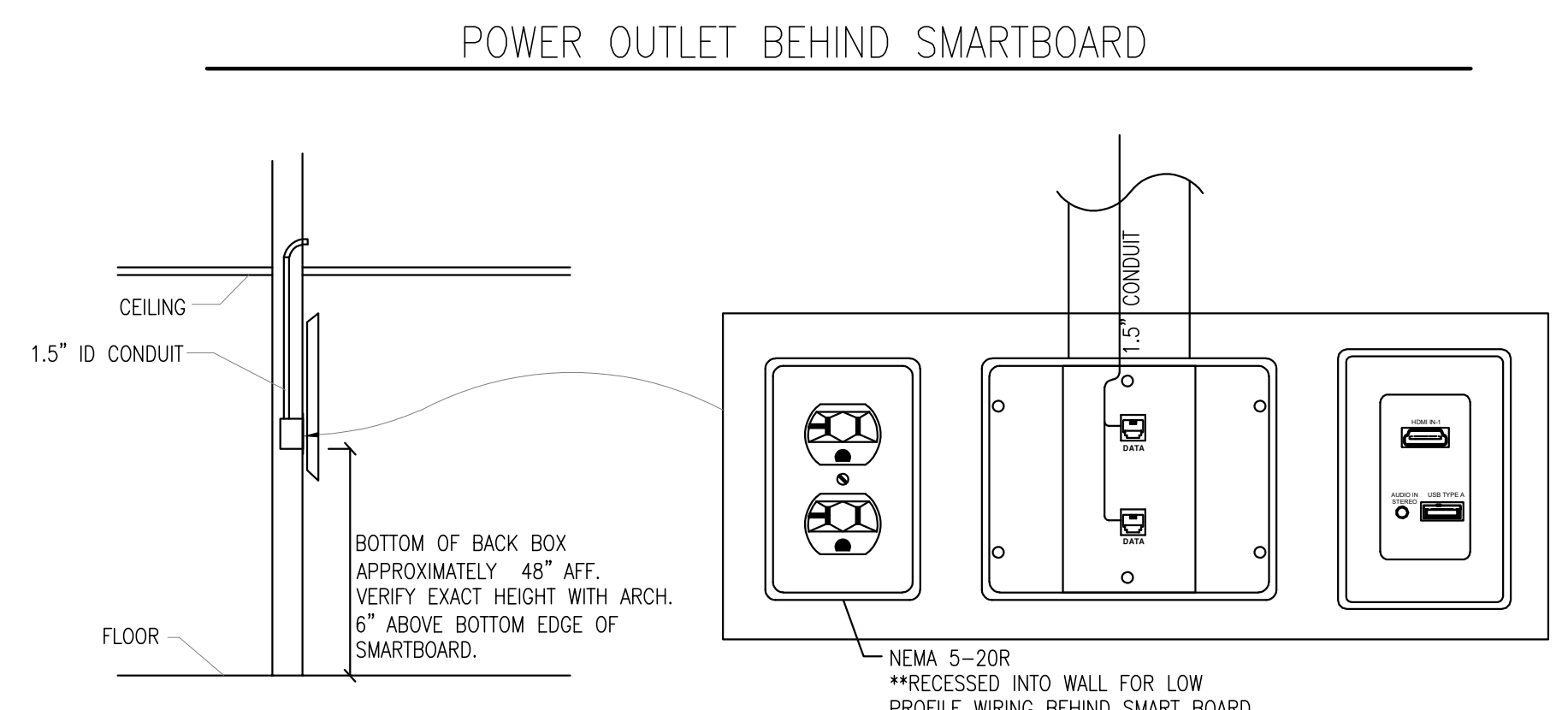
6 ELECTRICAL FLOOR BOX DETAIL
NO SCALE



5 TYP. OUTLET MOUNTING DETAIL
NOT TO SCALE



7 TEACHERS DESK & SMART BOARD WIRING DETAIL
NO SCALE



7 TEACHERS DESK & SMART BOARD WIRING DETAIL
NO SCALE