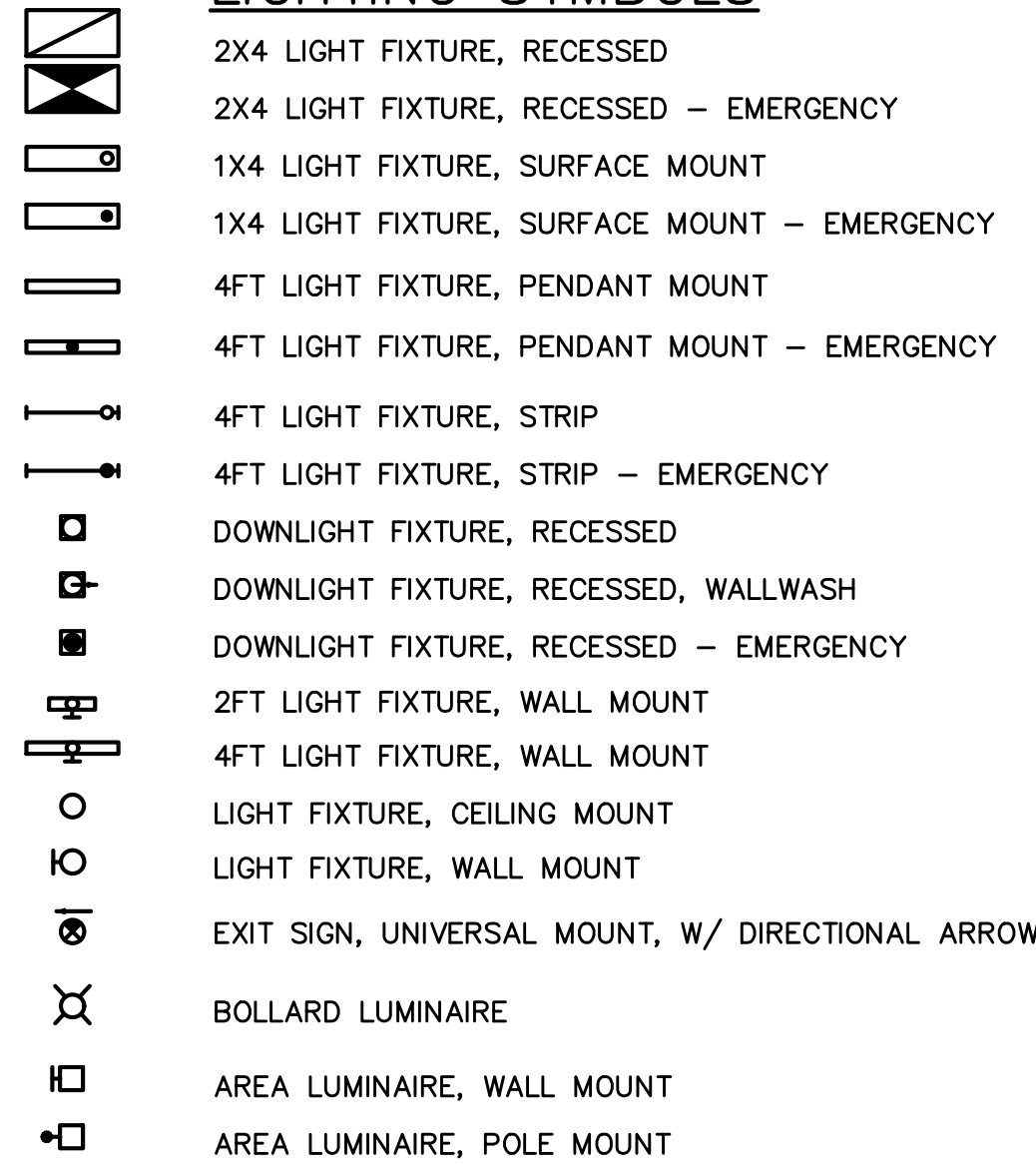
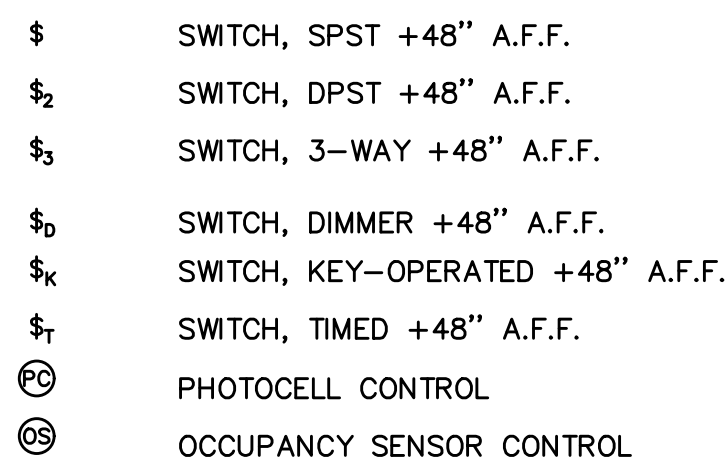


ELECTRICAL SYMBOL LIST

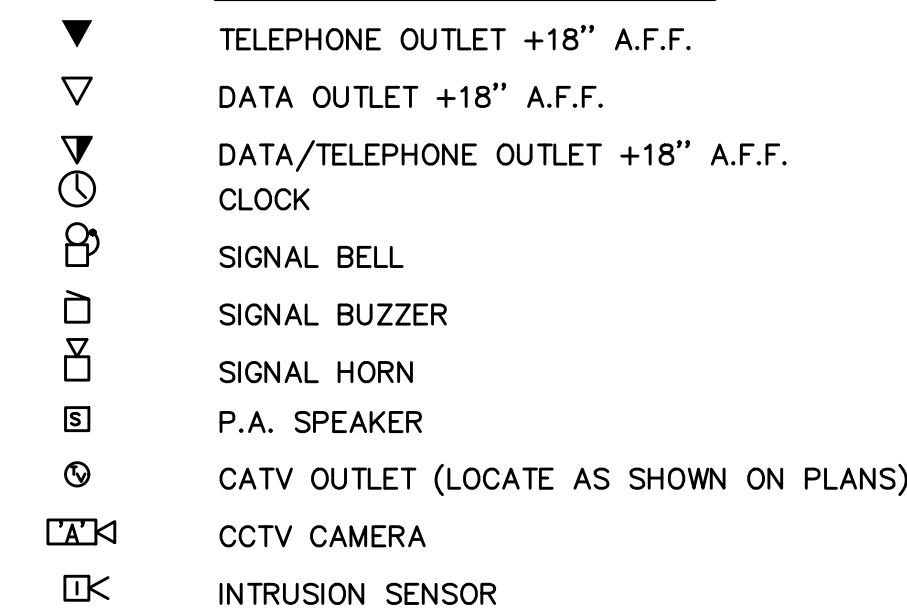
LIGHTING SYMBOLS



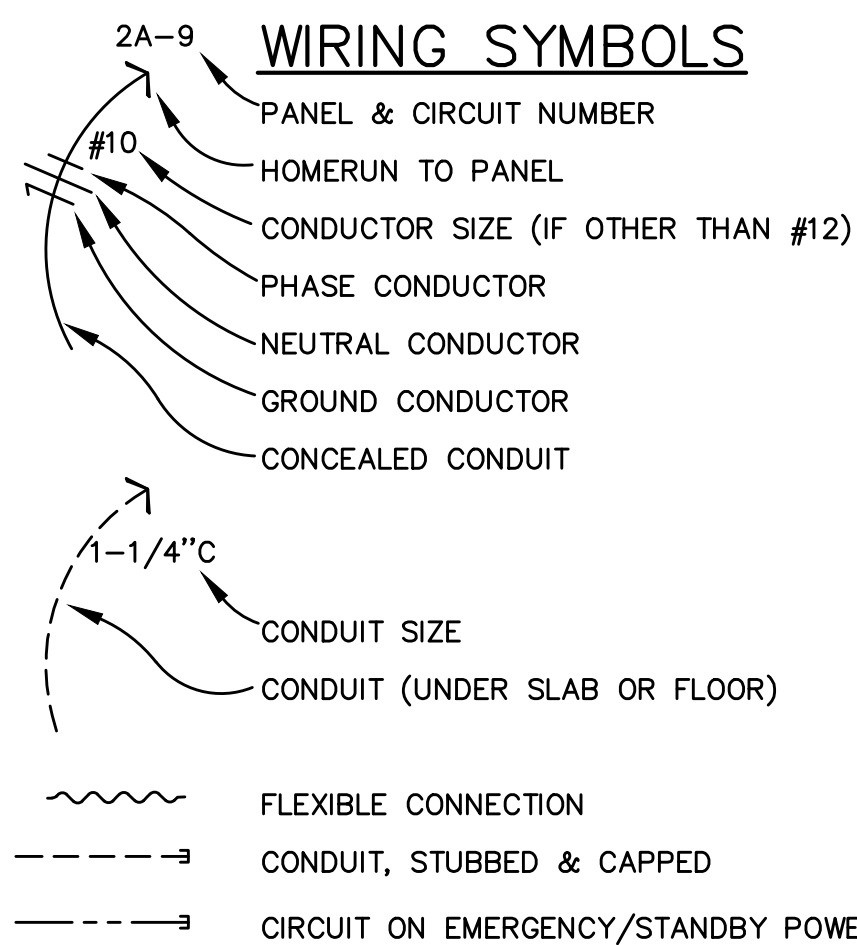
SWITCH SYMBOLS



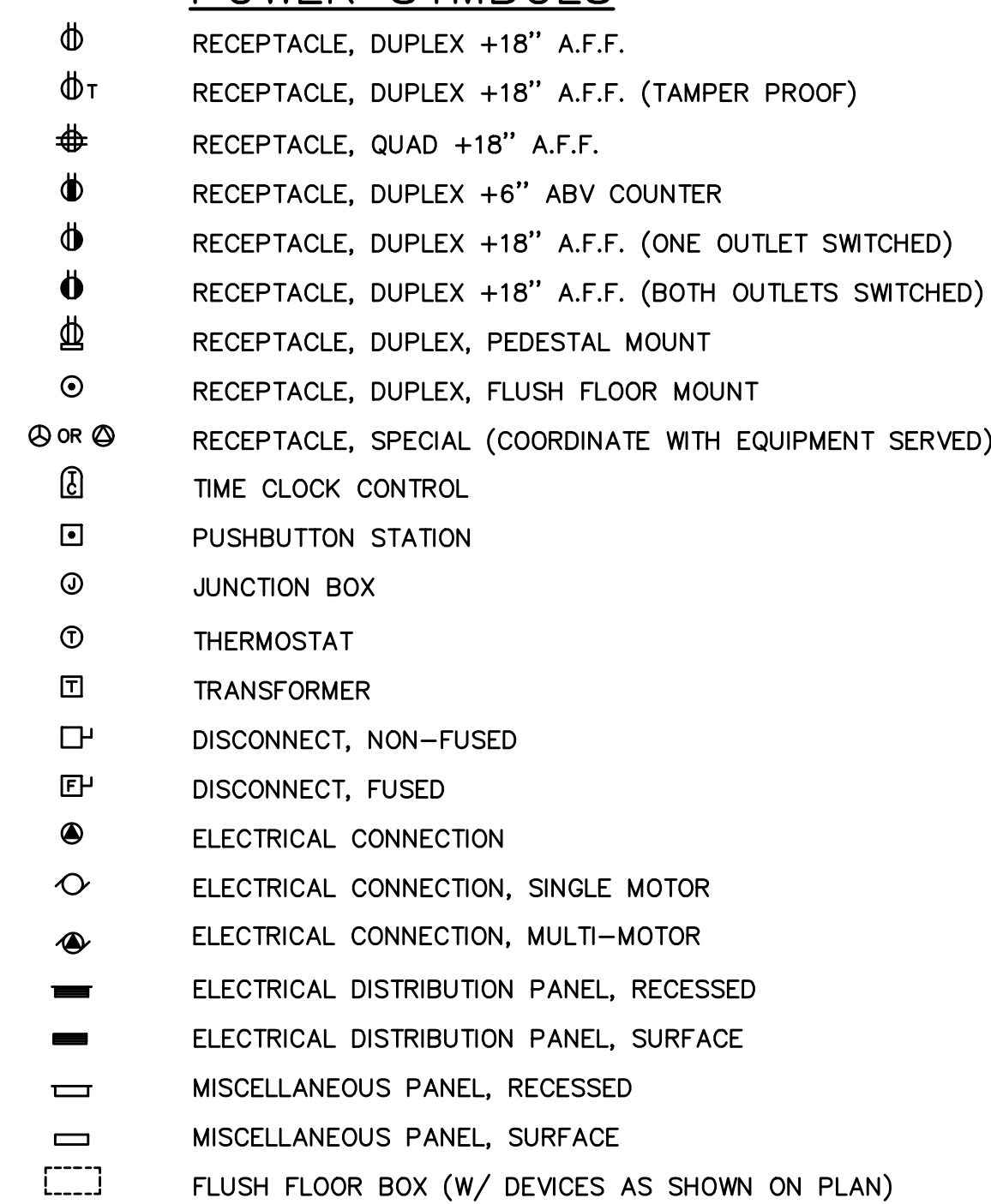
SIGNAL SYMBOLS



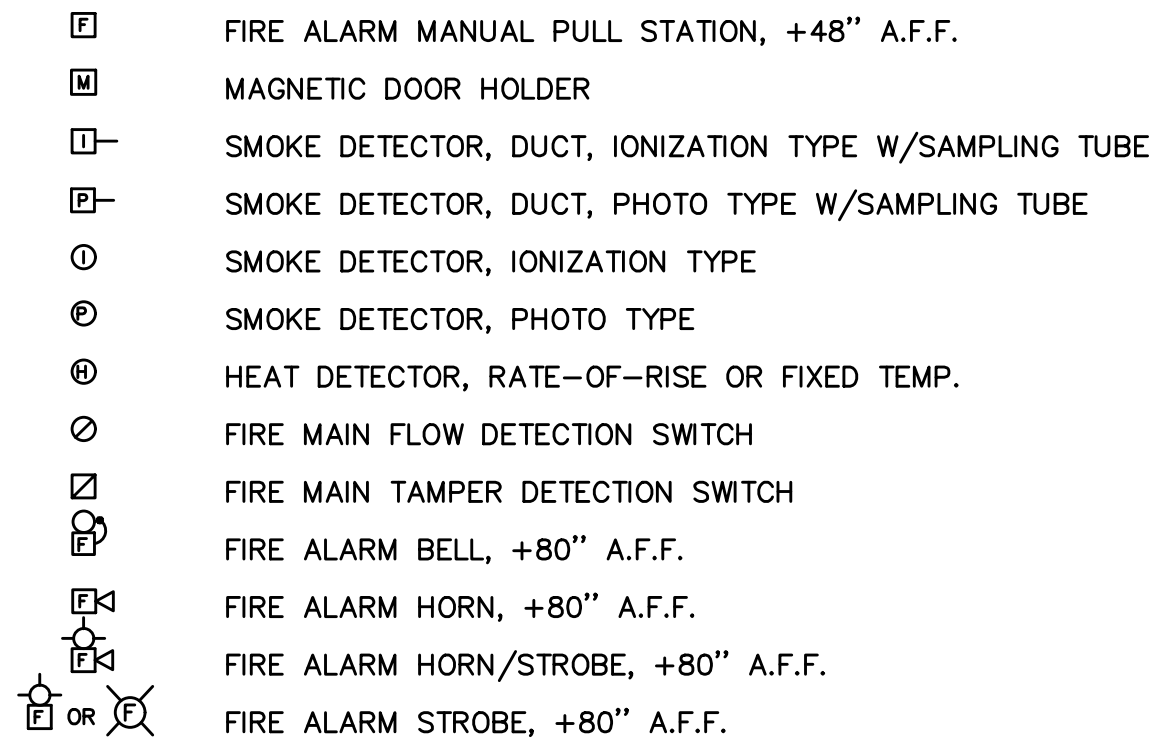
WIRING SYMBOLS



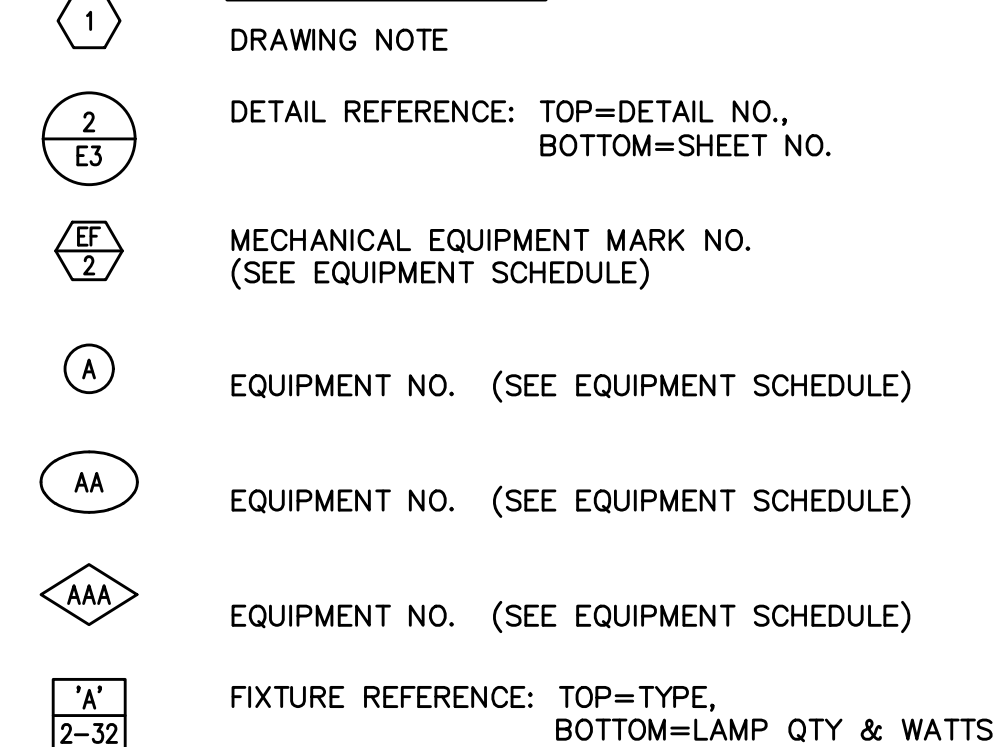
POWER SYMBOLS



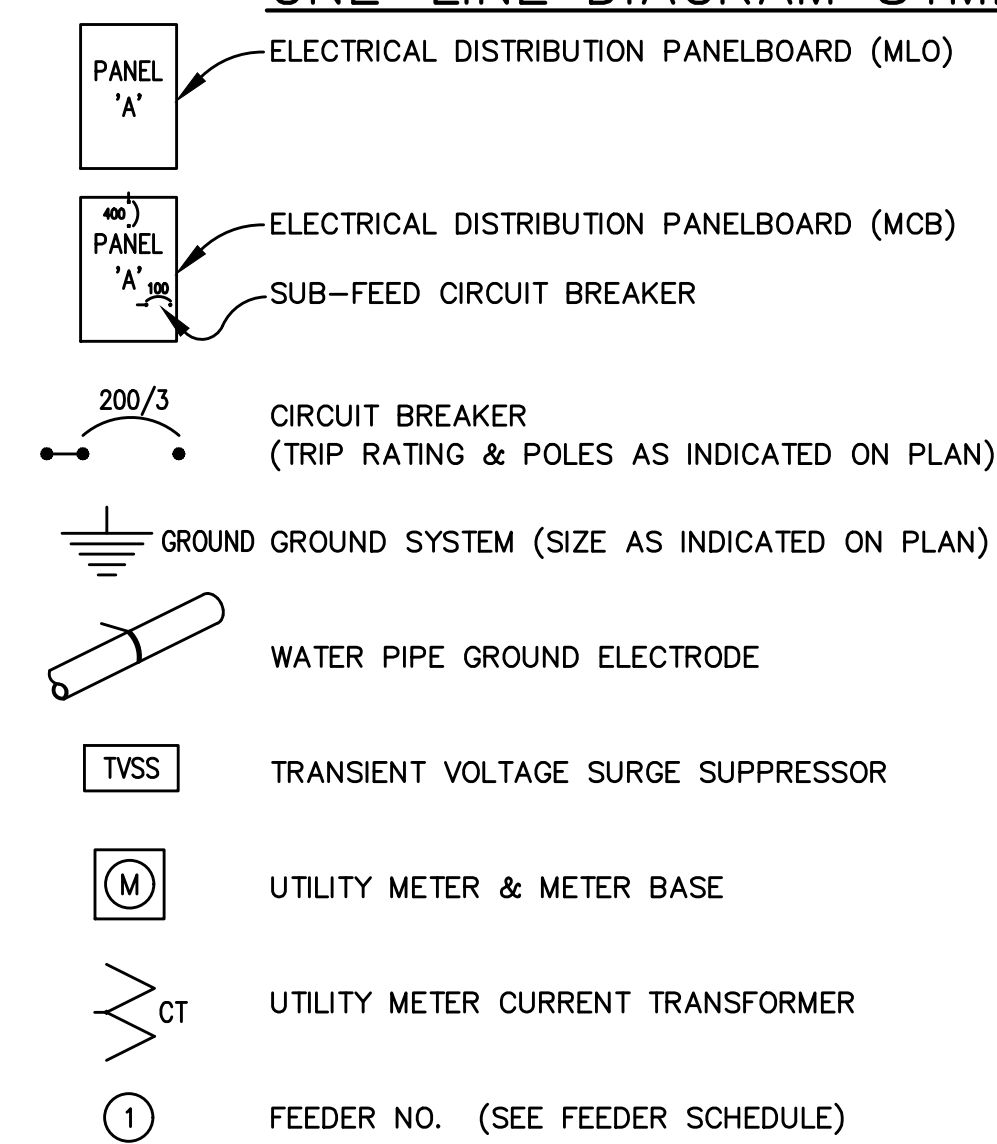
FIRE ALARM SYMBOLS



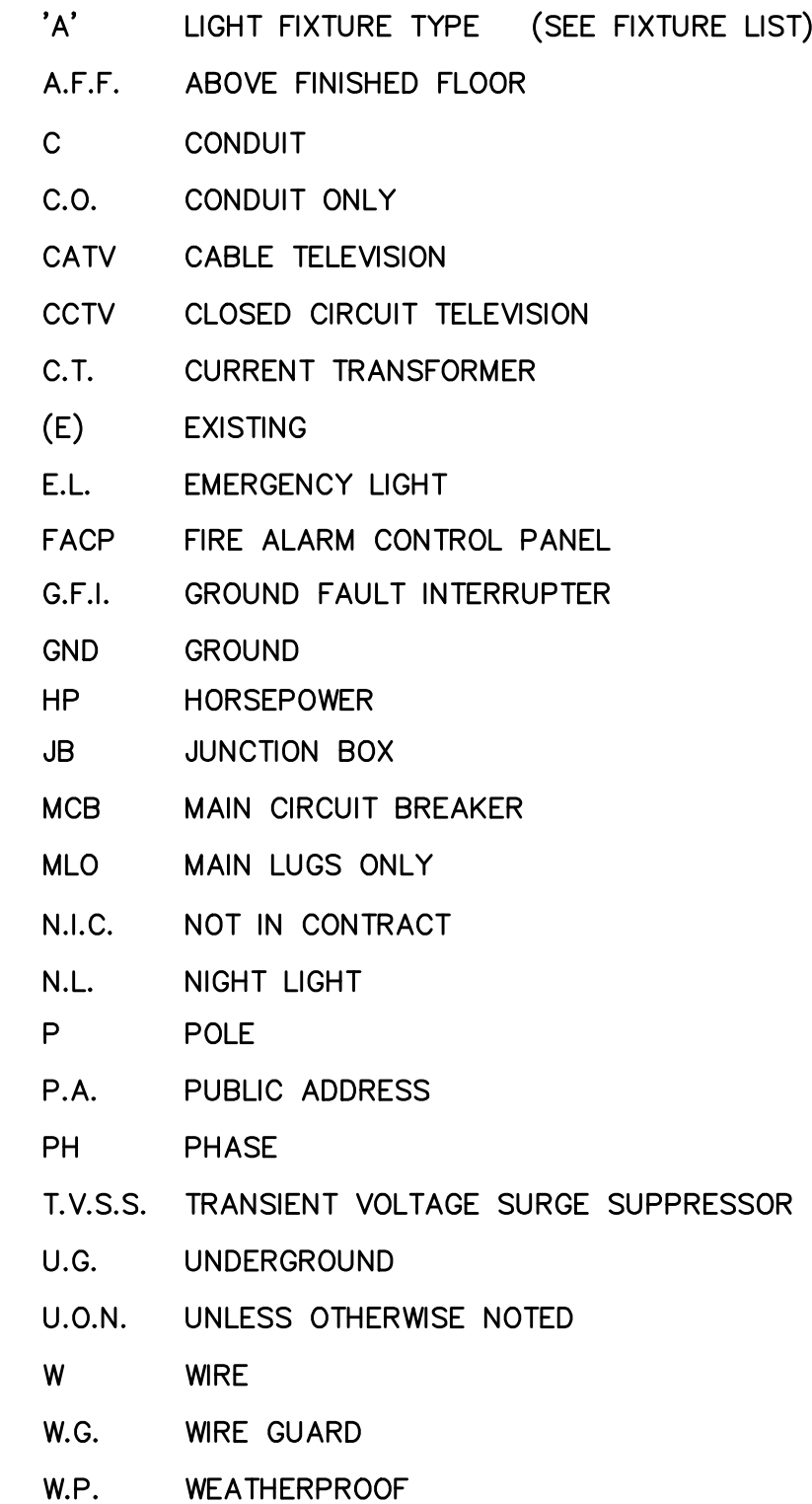
NOTATIONS



ONE-LINE DIAGRAM SYMBOLS



ABBREVIATIONS



NOTE: SOME OF THE SYMBOLS AND ABBREVIATIONS ON THIS LIST MAY NOT APPLY TO THIS PROJECT.

#	DATE	DESC.
1	12.22.21	ISSUE FOR PERMIT
2	02.16.22	PLAN REVIEW
3	04.13.22	PLAN REVIEW



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NEW BUILDING FOR
GUIDEPOST MONTESSORI DAYCARE
SE TUALATIN VALLEY HWY AND SE 70TH AVENUE
HILLSBORO, OREGON

DRAWING TITLE:
**ELECTRICAL
SYMBOL LIST**

DRAWN BY: **DMT**
CHECKED BY: **RLC**

E1.00

SE CARLYLE STREET

OVERHEAD LINES TO BE ROUTED DOWN THE POLE TO A 504 VAULT PER PGE REQUIREMENTS, IN 2" SCHEDULE 40 PVC CONDUIT.

(1) 2" SCHEDULE 40 PVC CONDUIT PER PGE REQUIREMENTS

EXISTING UTILITY POLE. STREET LIGHT TO REMAIN. OVERHEAD LINES TO BE MOVED UNDERGROUND FROM THIS POINT.

PGE 504 VAULT

BUILDING MOUNTED LIGHTS AROUND ENTIRE PERIMETER REFER TO SHEET E2.01.

H1-3 VIA TIMECLOCK

APPROX. ELECTRICAL ROOM LOCATION.

UTILITY CT & METER

H1-1 VIA LCP

PROTECTIVE BOLLARDS PER PGE REQUIREMENTS

SECONDARY FEEDER ROUTED UNDERGROUND FROM PAD MOUNT UTILITY TRANSFORMER PER PROVIDER'S REQUIREMENTS

PGE'S UTILITY LINE WILL CONTINUE FROM THE VAULT TO TIE INTO STREET LIGHTING ON THE ADJACENT PROPERTY.

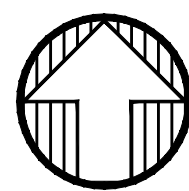
O.H. POWER LINES TO BE RE-ROUTED UNDERGROUND

(2) UTILITY POLE TO BE REMOVED.

NEW STREET LIGHT & POLE PER CITY REQUIREMENTS. SEE SHEETS E1.04, E1.05, E1.06

PGE 644 VAULT & PAD MOUNT TRANSFORMER

SE 70TH AVENUE (ALDER ST)



1 SITE ELECTRICAL PLAN
E1.01 SCALE: 1" = 20'-0"

GENERAL POWER NOTES:

- ALL PLANS ARE CONSIDERED DIAGRAMMATICAL. THEREFORE ALL EQUIPMENT SIZES AND DEVICE LOCATIONS ARE APPROXIMATE AND SUBJECT TO FIELD CONDITIONS AND PRODUCT APPROVAL.
- ELECTRICAL SERVICE ENTRANCE EQUIPMENT DESIGN IS BASED ON TYPICAL PRODUCTS. ACTUAL PRODUCTS USED MAY DIFFER IN SIZE AND CONFIGURATION AND SHALL BE NOTED IN FINAL PROJECT DOCUMENTS.
- COORDINATE WITH LOCAL UTILITY PROVIDER FOR EXACT SERVICE CONDUIT AND CONDUCTORS REQUIREMENTS.
- ALL UTILITY WORK SHALL BE DONE IN ACCORDANCE WITH THE UTILITY PROVIDER'S ELECTRICAL SERVICE REQUIREMENTS.
- REFER TO THE UTILITY PROVIDER'S ELECTRICAL SERVICE REQUIREMENTS PRIOR TO THE START OF ANY WORK. ALL ELECTRICAL UTILITY WORK SHALL ADHERE TO THESE REQUIREMENTS.
- REFER TO SHEET E1.11 FOR TYPICAL FEEDER SCHEDULE AND ONE-LINE DIAGRAM.
- U.G. PRIMARY FEEDER SHALL HAVE A MINIMUM 48 INCH BURY.
- U.G. SECONDARY FEEDER SHALL HAVE A MINIMUM 36 INCH BURY.
- SECONDARY CONDUIT SWEEPS SHALL BE MINIMUM 60 INCH RADIUS WITH A MINIMUM OR 7'-0" STRAIGHT CONDUIT RUN BETWEEN SWEEPS.
- LOCATION AND INSTALLATION OF THE PRIMARY AND SECONDARY CONDUITS, TRANSFORMER, ETC. SHALL BE PROVIDED PER PGE ELECTRICAL SERVICE REQUIREMENTS.
- REFER TO SHEET E3.01 FOR ELECTRICAL EQUIPMENT LAYOUT.
- OVERHEAD SERVICE ENTRANCE SECONDARY CONDUCTORS AND WEATHERHEAD LOCATION SHALL BE PER THE UTILITY PROVIDES DIRECTION.
- CUSTOMER TO PROVIDE ALL TRENCHING AND BACKFILLING. TRENCH TO BE 36 INCHES DEEP AND 30 INCHES WIDE, MEASURED FROM FINAL GRADE.
- UTILITY PROVIDER'S CONDUCTORS TO BE INSTALLED IN GRAY SCHEDULE 40, ELECTRICAL GRADE, PVC CONDUIT WITH NYLON PULL STRINGS (MIN 500 LBS. TEST). UTILITY PROVIDER TO DETERMINE THE SIZE AND NUMBER OF CONDUITS REQUIRED. ALL ELBOWS TO BE 36 INCH (MIN) RADIUS. ALL BENDS MAY BE FACTORY MADE. IF MORE THAN 270 DEGREES OF BENDS OR IF RUN IS LONGER THAN 150 FEET, BENDS MUST BE RIGID STEEL.
- CONSULT WITH UTILITY PROVIDER'S REPRESENTATIVE 2 WEEKS BEFORE STARTING MAIN POWER TRENCHING FOR A PRE-CONSTRUCTION CONFERENCE. INCLUDED IN THIS CONFERENCE WILL BE EXCAVATOR, UTILITY PROVIDER, TELCO, CATV, AND GAS.
- CONTRACTOR TO LOCATE ALL UNDERGROUND UTILITIES BEFORE TRENCHING. COORDINATE WITH CIVIL.
- ELECTRICAL SITE WORK SHALL BE COORDINATED WITH ALL OTHER TRADES, PRIOR TO AND THROUGH OUT CONSTRUCTION.
- REFER TO DIVISION 26 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- REFER TO SHEET E1.21 FOR LIGHT FIXTURE SCHEDULE.

KEYED POWER NOTES:

- STREET LIGHTING SHOWN FOR REFERENCE. WORK TO BE PERFORMED UNDER SEPARATE PERMIT.
- PROVIDE TWO 3/4" PVC CONDUIT, EACH WITH ONE 20A, 120V, 1P CIRCUIT FROM THE HOUSE ELECTRICAL PANEL, ROUTED UNDERGROUND FROM THE ELECTRICAL ROOM TO THE FIRE WATER VAULT FOR GFCI RATED WEATHER PROOF DUPLEX RECEPTACLE FOR SUMP PUMP AND BACKFLOW PREVENTER.
- PROVIDE ONE 3/4" PVC CONDUIT WITH ONE 20A, 120V, 1P CIRCUIT FROM THE HOUSE ELECTRICAL PANEL, ROUTED UNDERGROUND FROM THE ELECTRICAL ROOM TO WATER VAULT FOR GFCI RATED WEATHER PROOF DUPLEX RECEPTACLE FOR SUMP PUMP AS REQUIRED.

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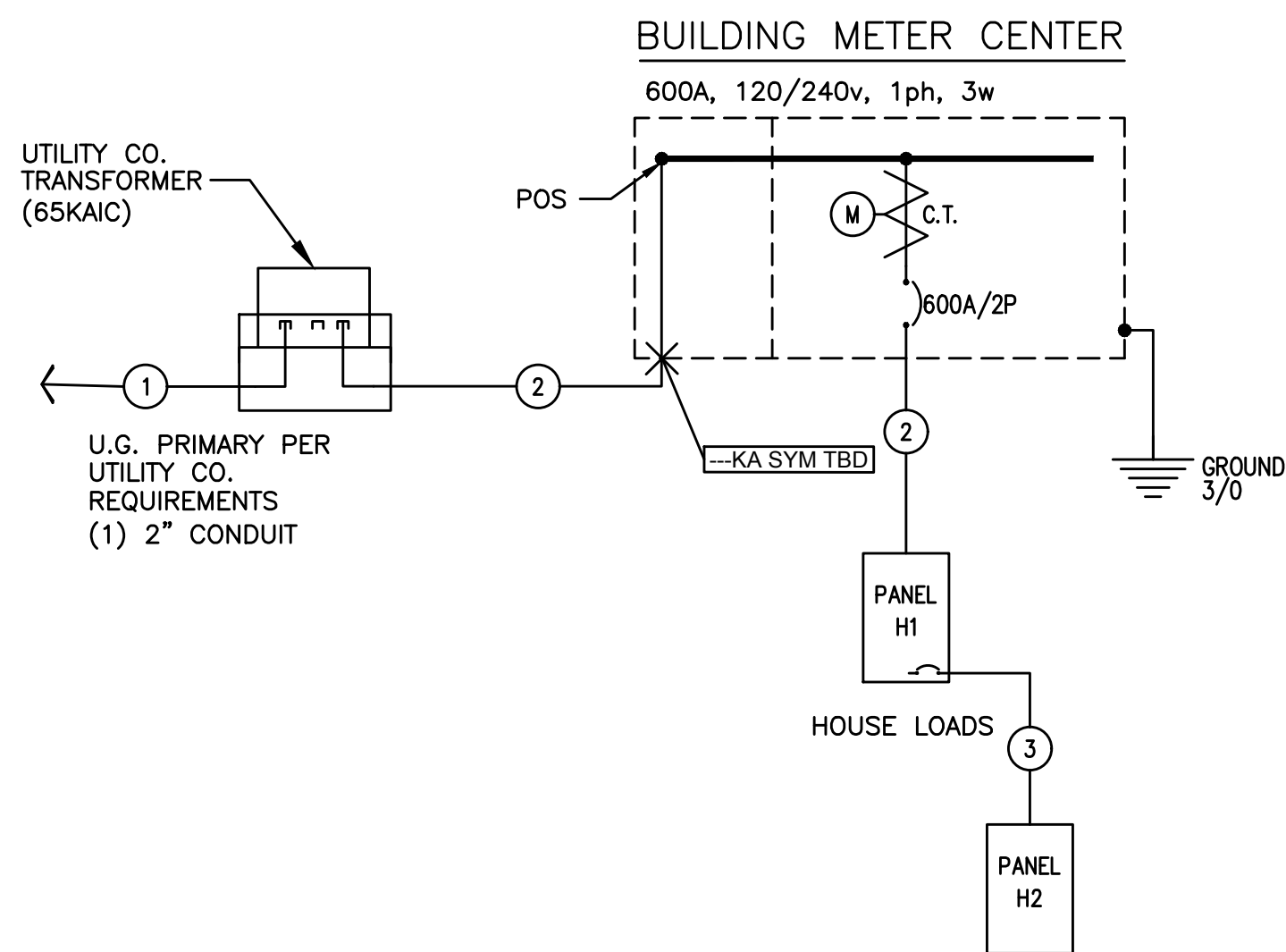
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DRAWING TITLE:
ELECTRICAL
SITE PLAN

DRAWN BY: DMT
CHECKED BY: PLC

E1.01

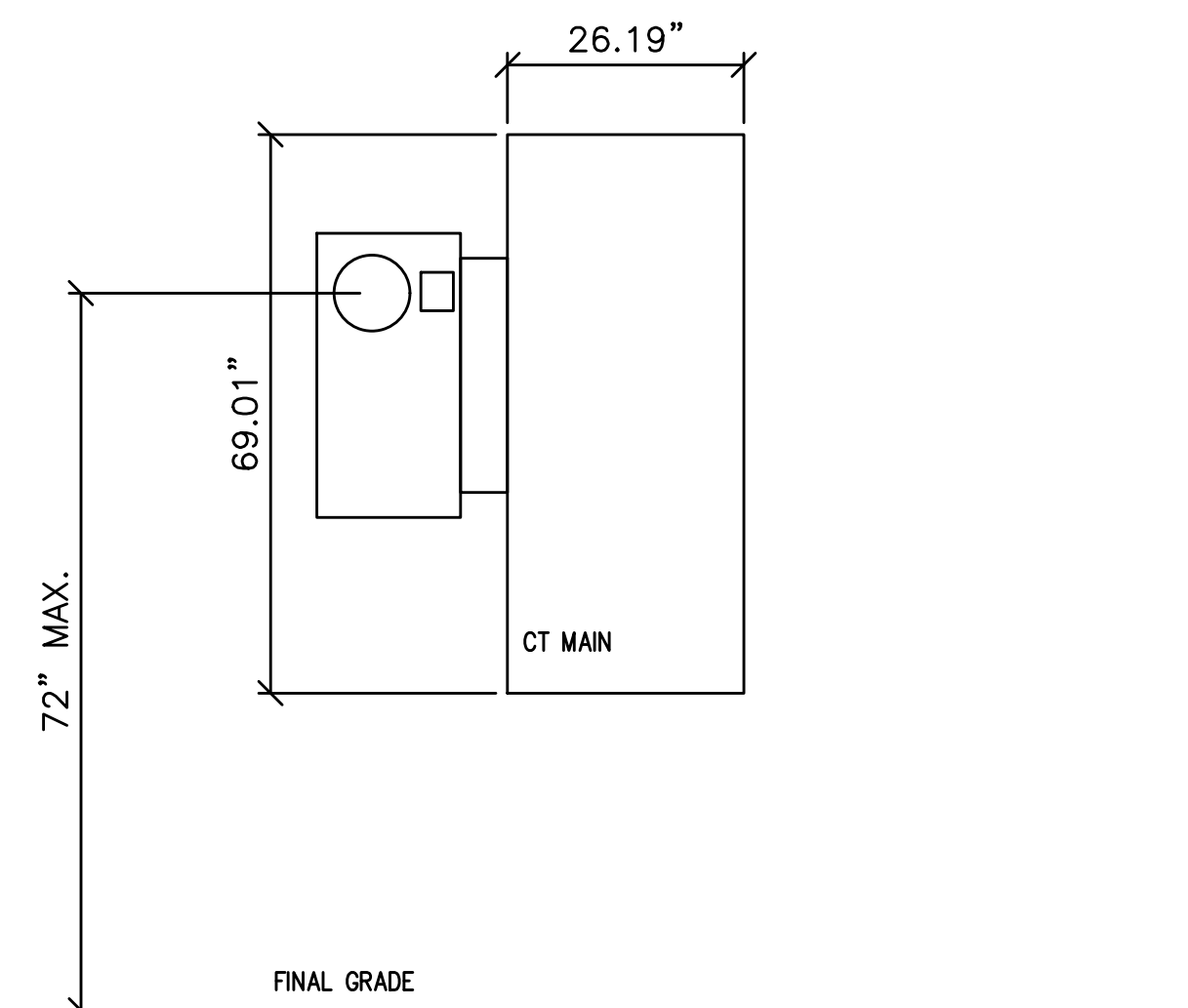
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PHN: (503) 234-0548
FAX: (503) 234-0877
CONTACT: .



1 ELECTRICAL ONE-LINE DIAGRAM
E1.11 120/240V, 1Ø, 3 WIRE

ONE-LINE GENERAL NOTES:

- A. COORDINATE ALL WORK ASSOCIATED WITH ELECTRIC SERVICE WITH LOCAL UTILITY. PROVIDE ALL CONDUIT & CONDUCTORS, GROUNDING, TRANSFORMER VAULT/PAD, ETC., IN ACCORDANCE WITH SERVING UTILITY REQUIREMENTS.
- B. COORDINATE METERING REQUIREMENTS WITH UTILITY.
- C. FOR LOAD CENTER FEEDER LENGTHS GREATER THAN 145'-0" FROM METER CENTER, INCREASE WIRE SIZE ONE SIZE UP FOR VOLTAGE DROP.



2 TYPICAL METER ELEVATION
E1.11 NOT TO SCALE

TYPICAL METER ARRANGEMENT PER UTILITY PROVIDER'S REQUIREMENTS. COMPONENTS SHOWN ARE APPROXIMATE BASED ON VENDOR INFORMATION. ACTUAL EQUIPMENT TO BE INSTALLED MAY VARY. ELECTRICAL CONTRACTOR TO PROVIDE CUTSHEETS OF THE PRODUCTS INSTALLED UPON SUBMITTAL REVIEW & APPROVAL.

FEEDER SCHEDULE (COPPER)					
NO.	AMPS	CONDUIT	CONDUCTOR		
1	**		BY UTILITY CO. & (1) GND		
2	600A	(2) 3"	ea w/ (3) #350Kcmil & (1) #1 GND		
3	250A	2 1/2"	(3) #250KCMIL & (1) #4 GND		

** SIZE AND QUANTITY OF CONDUITS SHALL BE DETERMINED BY THE ELECTRICAL UTILITY PROVIDER, AND PROVIDED & INSTALLED BY THE ELECTRICAL CONTRACTOR WHERE NOT PROVIDED BY THE UTILITY PROVIDER.

MFIA PANEL SCHEDULE														23-Mar-22	
panel		mounting		location		connected load									
H1		SURFACE		ELECTRICAL ROOM		454									
voltage		phase		bus & main		calculated load									
		1		800A		MCB		 420							
C	service	va	a/p	no.	L1	L2	no.	a/p	va	service	C				
1	LIGHTS - PARKING	710	20/1	1	*		2	20/1	1280	RECEPT - RM 111,112,113	2				
1	LIGHTS - PLAYGROUND	426	20/1	3	*		4	20/1	1280	RECEPT - RM 110,111	2				
1	MONUMENT SIGN	1500	20/1	5	*		6	20/1	1500	RECEPT - MIRCO	2				
1	LIGHTS - BLDG EXTERIOR	510	20/1	7	*		8	20/1	900	DISPOSAL	4				
1	LIGHTS	1530	20/1	9	*		10	20/1	1500	DISH WASHER	4				
1	LIGHTS	2060	20/1	11	*		12	20/1	1500	REFRIGERATOR	4				
1	LIGHTS	1152	20/1	13	*		14	20/1	1500	REFRIGERATOR	4				
2	RECEPT - RECEPTION DESK	1500	20/1	15	*		16	20/1	1280	RECEPT - RM 101,118	2				
5	ENTRY SYSTEM	500	20/1	17	*		18	20/1	1280	RECEPT - RM 101,116,117	2				
5	DRINK FOUNTAIN	500	20/1	19	*		20	20/1	1080	RECEPT - RM 110,114	2				
5	WASHER	1500	20/1	21	*		22	20/1	720	RECEPT - RM 114	2				
6	DRYER	3600	30/2	23	*		24	20/1	1280	RECEPT - RM 129	2				
6	*	3600	*	25	*		26	20/1	1500	RECEPT - RM 103	2				
3	WH-1 WATER HEATER	2250	30/2	27	*		28	20/1	1500	RECEPT - RM 103	2				
3	*	2250	*	29	*		30	20/1	1500	RECEPT - RM 104,131,HALL	2				
2	RECEPT - RM 109, HALL	1500	20/1	31	*		32	20/1	1500	RECEPT - RM 104,105	2				
2	RECEPT - RM 109, 108	1500	20/1	33	*		34	20/1	1500	RECEPT - 105,106	2				
2	RECEPT - RM 108	1500	20/1	35	*		36	20/1	1500	RECEPT - RM 108, HALL	2				
2	TELECOM BOARD	500	20/1	37	*		38	20/1	1500	RECEPT - RM 107	2				
2	IT RACK	1500	20/1	39	*		40	250/2	25588	PANEL H2	7				
	SPARE	0	20/1	41	*		42	*	27896		7				
Line 1		56378 VA		NOTES:								line-line voltage			
Line 2		52694 VA										240			
Total Connected		109072 VA										largest motor (va)		0	
load code:		line 1	line 2					total	factor	calculated load (va)					
1. LIGHTS=		4892	2996					VA	7888 1.25	9860					
2. RECEPT=		12740	15360					VA	28100 1 + 0.5	19050					
3. HEATING=		2250	2250					VA	4500 1.00	4500					
4. KITCHEN=		3000	2400					VA	5400 0.80	4320					
5. EQUIP.=		2000	500					VA	2500 1.00	2500					
6. MOTORS=		3600	3600					VA	7200 *	7200					
7. SUB-PANEL=		27896	25588					VA	53484 1.00	53484					
(* 125% of the largest motor + 100% of the balance)								TOTAL =	100914						

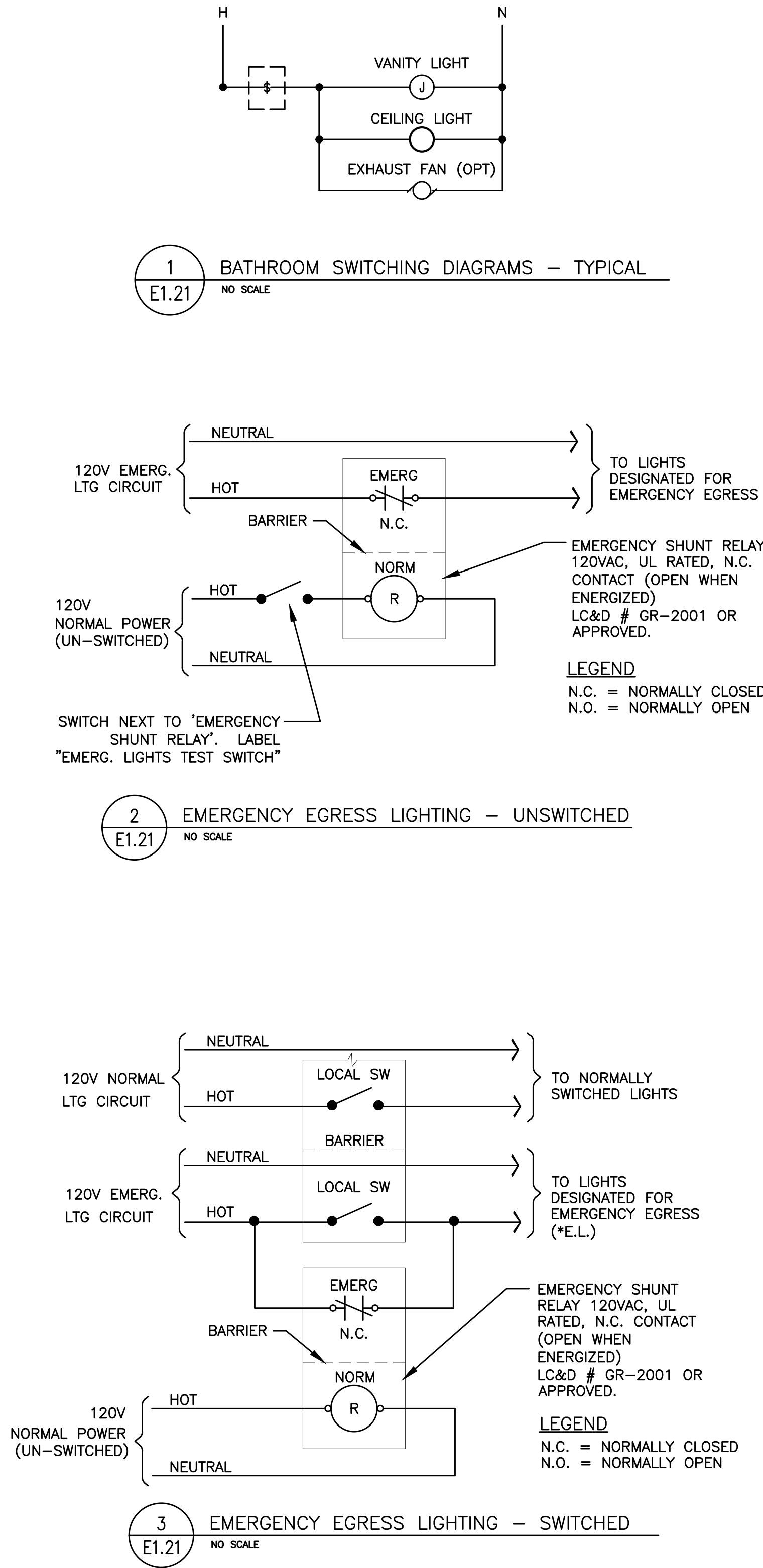
MFIA PANEL SCHEDULE														23-Mar-22	
panel		mounting		location		connected load									
H2		SURFACE		ELECTRICAL ROOM		223									
voltage		phase		bus & main		calculated load									
		1		250A		MLO									
C	service	va	a/p	no.	L1	L2	no.	a/p	va	service	C				
3	EH-1 VESTIBULE	500	20/1	1	*		2	20/1	500	EH-1 FIRE RISER RM	3				
2	RECEPT - ROOF GFCI	500	20/1	3	*		4	20/1	1500	IAC/OAC-1	6				
	SPARE	0	20/1	5	*		6	20/1	1500		6				
6	EF-1, EF-2, EF-3	1584	20/1	7	*		8	20/1	1224	EF-4 & EF-5	6				
6	RTU-1	4160	60/2	9	*		10	60/2	4160	RTU-2	6				
6	*	4160	*	11	*		12	*	4160	*	6				
6	RTU-3	4160	60/2	13	*		14	60/2	4160	RTU-4	6				
6	*	4160	*	15	*		16	*	4160	*	6				
6	RTU-5	3224	50/2	17	*		18	60/2	3224	RTU-6	6				
6	*	3224	*	19	*		20	*	3224	*	6				
	SPARE	0	20/1	21	*		22	20/1	0	SPARE					
	SPARE	0	20/1	23	*		24	20/1	0	SPARE					
				25	*		26								
				27	*		28								
				29	*		30								
				31	*		32								
				33	*		34								
				35	*		36								
				37	*		38								
				39	*		40								
				41	*		42								
Line 1		25588 VA				NOTES:				line-line voltage		240			
Line 2		27896 VA								largest motor (va)		0			
Total Connected		53484 VA										0			
load code:		line 1 line 2				total		factor		calculated load (va)					
1. LIGHTS=		0	0			VA		0	1.25						
2. RECEPT.=		0	500			VA		500	1 + 0.5			500			
3. HEATING=		1000	0			VA		1000	1.00			1000			
4. KITCHEN=		0	0			VA		0	1.00			0			
5. EQUIP.=		0	0			VA		0	1.00			0			
6. MOTORS=		24588	27396			VA		51984	*			51984			
7. SUB-PANEL=		0	0			VA		0	1.00			0			
(* 125% of the largest motor + 100% of the balance)														TOTAL = 53484	

MECHANICAL EQUIPMENT SCHEDULE									
NO.	EQUIPMENT NAME	HP/KW	VOLTS	PH	AMPS	CONDUIT	WIRE	GND	CIRCUIT
IAC-1	SPLIT SYSTEM NO.1 (INDOOR)		208	1		1/2"	#12	#12	INTERCONNECT W/OAC-1
OAC-1	SPLIT SYSTEM NO.1 (OUTDOOR)		208	1		1/2"	#12	#12	
EF-1	EXHAUST FAN NO.1	1/6HP	120	1		1/2"	#12	#12	H2-7 (PC)
EF-2	EXHAUST FAN NO.2	1/6HP	120	1		1/2"	#12	#12	H2-7 (PC)
EF-3	EXHAUST FAN NO.3	1/6HP	120	1		1/2"	#12	#12	H2-7 (PC)
EF-4	EXHAUST FAN NO.4	1/6HP	120	1		1/2"	#12	#12	H2-8 (PC)
EF-5	EXHAUST FAN NO.5	1/4HP	120	1		1/2"	#12	#12	H2-8 (PC)
EH-1	ELECT. HEATER NO.1	500	120	1		1/2"	#12	#12	REFER TO E3.01
RTU-1	ROOFTOP UNIT NO.1		208	1	40.0 MCA	1 1/4"	#4	#10	H2-9,11
RTU-2	ROOFTOP UNIT NO.2		208	1	40.0 MCA	1 1/4"	#4	#10	H2-10,12
RTU-3	ROOFTOP UNIT NO.3		208	1	40.0 MCA	1 1/4"	#4	#10	H2-13,15
RTU-4	ROOFTOP UNIT NO.4		208	1	40.0 MCA	1 1/4"	#4	#10	H2-14,16
RTU-5	ROOFTOP UNIT NO.5		208	1	31.0 MCA	1"	#6	#10	H2-17,19
RTU-6	ROOFTOP UNIT NO.6		208	1	31.0 MCA	1"	#6	#10	H2-18,20
WH-1	WATER HEATER NO.1	4500KW	208	1					H1-27,29

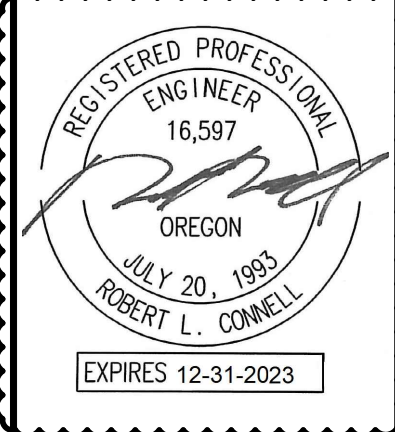
LIGHTING FIXTURE LIST					
TYPE	LAMP	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	OPTIONS
A1 A1E	LED 4000K 3000LM/80CRI 20W	LITHONIA (OR APPROVED OTHER)	CLXL48 SERIES	TYPE :4" WRAP AROUND MOUNTING :SURFACE HOUSING :STEEL LENS/REFL.:WIDE DIFFUSED VOLTAGE :MVOLT BALLAST :LED DRIVER	WIDE DISTRIBUTION STANDARD OUTPUT A1E – PROVIDE BATTERY BACK UP EQUIP & STOR RMS
B1	LED 3500K 1550LM 27W	LITHONIA (OR APPROVED OTHER)	FMVCSLS SERIES	TYPE :2FT VANITY MOUNTING :SURFACE (+6" ABOVE MIRROR) HOUSING :STEEL LENS/REFL.:ACRYLIC VOLTAGE :120V BALLAST :LED DRIVER	RESTROOMS
B2	LED 3500K 700LM 10W	HALO (OR APPROVED OTHER)	SMD4R SERIES	TYPE :4" DIA. DOWNLIGHT MOUNTING :SURFACE HOUSING :STEEL LENS/REFL.:ACRYLIC VOLTAGE :120V BALLAST :LED DRIVER	RESTROOMS
C1 C1E	LED 3500K 4300LM 30W	LITHONIA (OR APPROVED OTHER)	STAKPAK2X4AL0335K SERIES	TYPE :2X4 INDIRECT MOUNTING :LAY-IN HOUSING :STEEL LENS/REFL.:ACRYLIC VOLTAGE :120V BALLAST :LED DRIVER (DIMMING)	C1E WITH BATTERY BACK-UP CLASSROOMS, LOBBY, CORRIDOR
C2 C2E	LED 3500K 4000LM 30W	MARK LIGHTING (OR APPROVED OTHER)	S4LD SERIES	TYPE :DIRECT/INDIRECT MOUNTING :SUSPENDED HOUSING :STEEL LENS/REFL.:ACRYLIC VOLTAGE :120V BALLAST :LED DRIVER (DIMMING)	C2E WITH BATTERY BACK-UP CONFIRM MOUNTING HEIGHT WITH ARCHITECT CLASSROOMS, LOBBY
C3 C3E	LED 3500K 1025LM 12W	USA1 (OR APPROVED OTHER)	B4RDF SERIES	TYPE :4.5 INCH DIA. DOWNLIGHT MOUNTING :RECESSED HOUSING :STEEL LENS/REFL.:ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER (DIMMING)	C3E WITH BATTERY BACK-UP VESTIBULE
X	LED (GREEN LETTERS) 1.5W	LITHONIA (OR APPROVED OTHER)	EXG LED EL SERIES	TYPE :EXIT SIGN MOUNTING :UNIVERSAL HOUSING :THERMOPLASTIC LENS/REFL.:SINGLE FACE/DUAL FACE VOLTAGE :MVOLT BALLAST :NICKLE CADMIUM BATTERY	
S1	LED 4000K 8450LM 71W	LITHONIA (OR APPROVED OTHER)	DSX0-LED-P3 SERIES	TYPE :AREA LIGHT MOUNTING :RND STEEL POLE (18'-0") HOUSING :ALUMINUM LENS/REFL.:ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER (DIMMING)	FINISH PER ARCHITECT. PHOTOCELL 50% LIGHT REDUCTION
S2	LED 4000K 1525LM 31W	LITHONIA (OR APPROVED OTHER)	KBR8 SERIES	TYPE :BOLLARD LIGHT MOUNTING :AT-GRADE HOUSING :ALUMINUM LENS/REFL.:ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER	FINISH PER ARCHITECT. PHOTOCELL 50% LIGHT REDUCTION
S3	LED 3000K 1700LM 20W	MAXIM (OR APPROVED OTHER)	55573 SERIES	TYPE :EXTERIOR WALL SCONCE MOUNTING :SURFACE (+7-6" AFF) HOUSING :STEEL LENS/REFL.:ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER	FINISH PER ARCHITECT. PHOTOCELL
S4	PAR LED 4000-5000K 1500LM 15W	LOVE IT LIGHTING (OR APPROVED OTHER)	MODEL 20/850	TYPE :EXTERIOR ADJ. SIGN LIGHT MOUNTING :SURFACE (VERIFY) HOUSING :STEEL LENS/REFL.:ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER	FINISH PER ARCHITECT. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN. PROVIDE WITH PAR TYPE LED LAMP. VERIFY COLOR TEMP W/OWNER. WET LOCATION LISTED

GENERAL NOTES:

- A. ALL LIGHT FIXTURES SHALL HAVE ENERGY EFFICIENT LAMPING AND BALLASTS.
- B. LIGHT FIXTURES FOR LIVING UNITS SHALL BE "ENERGY STAR" RATED.
- C. EXTERIOR LIGHT FIXTURES SHALL BE "NIGHT SKY" FRIENDLY.
- D. VERIFY ALL FIXTURE FINISHES WITH ARCHITECT PRIOR TO BID.
- E. VERIFY ALL FIXTURE MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO BID.
- F. VERIFY ALL FIXTURE LOCATIONS WITH ARCHITECT PRIOR TO ROUGH IN.
- G. ALL INTERIOR LIGHTING SHALL BE 3000 KELVIN UNLESS OTHERWISE NOTED.
- H. ALL PRODUCT SUBSTITUTIONS AND VALUE ENGINEERING SHALL BE SUBMITTED DURING BID PHASE, SHALL MEET DESIGN INTENT AND IS SUBJECT TO OWNER APPROVAL.
- I. CONTRACTOR SHALL CONSULT MANUFACTURER INSTALLATION INSTRUCTIONS FOR ALL FIXTURES AND DEVICES AND INSTALL AS INSTRUCTED. THIS INCLUDES ALL ELECTRICAL COMPONENTS REQUIRED FOR COMPLETE INSTALLATION. WORK SHALL BE PERFORMED SUCH THAT MANUFACTURER WARRANTY IS NOT VOIDED.
- J. IF NECESSARY, CONTRACTOR SHALL PROVIDE IC RATED BOXES FOR ANY APPROVED, SUBSTITUTED FIXTURES NOT MEETING INSULATED CEILING REQUIREMENTS.
- K. BUILDING MOUNTED EXTERIOR WALL LIGHT FIXTURES SHALL BE CONTROLLED VIA PHOTOCELL, EITHER REMOTE OR INTEGRAL, FOR DUSK-TILL-DAWN OPERATION.



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1	12.22.21	ISSUE FOR PERMIT
2	02.16.22	PLAN REVIEW
3	04.13.22	PLAN REVIEW



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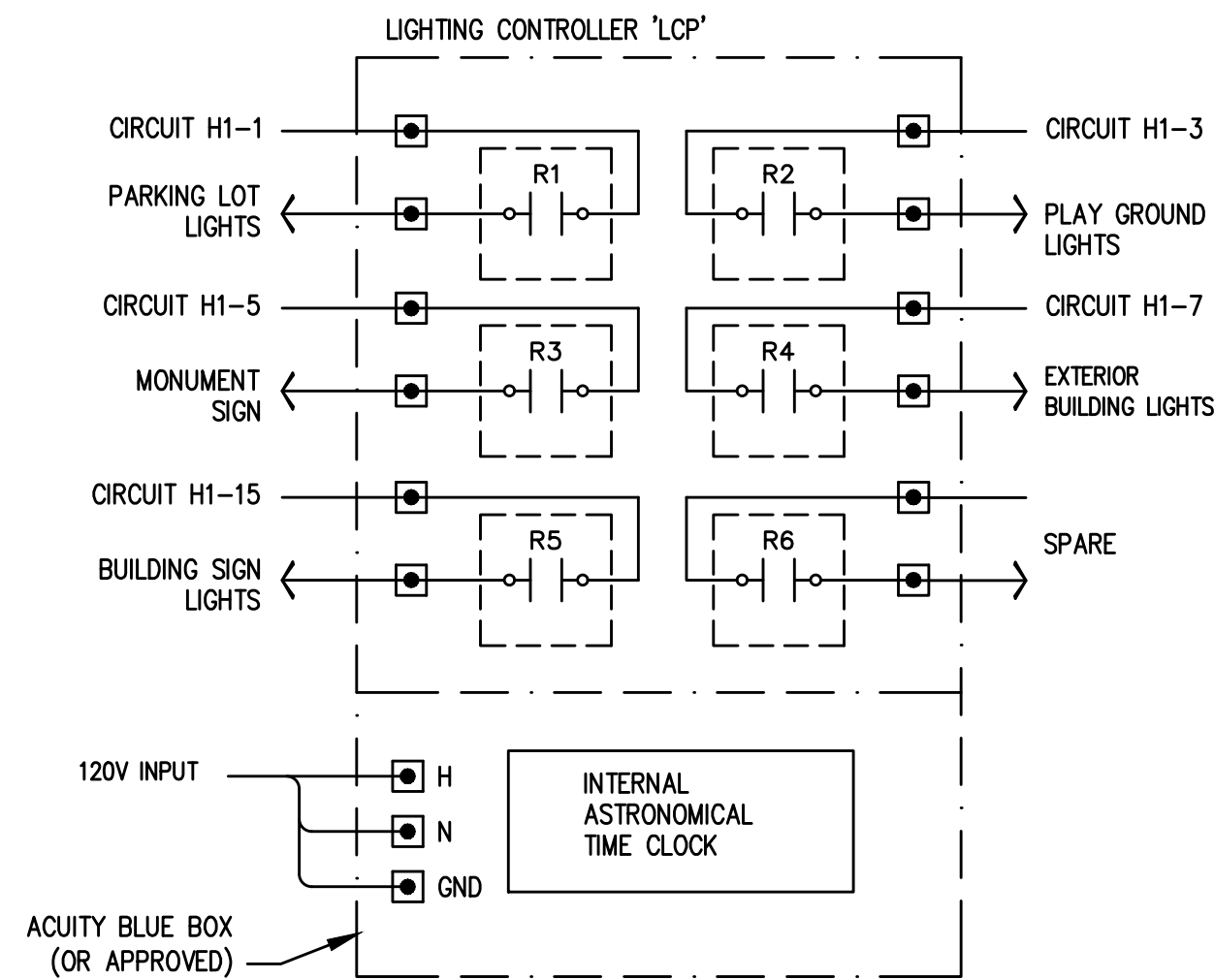
DRAWING TITLE:
**LIGHT SCHEDULE
& DETAILS**

DRAWN BY: **DMT**

CHECKED BY: **RLC**

E1.21

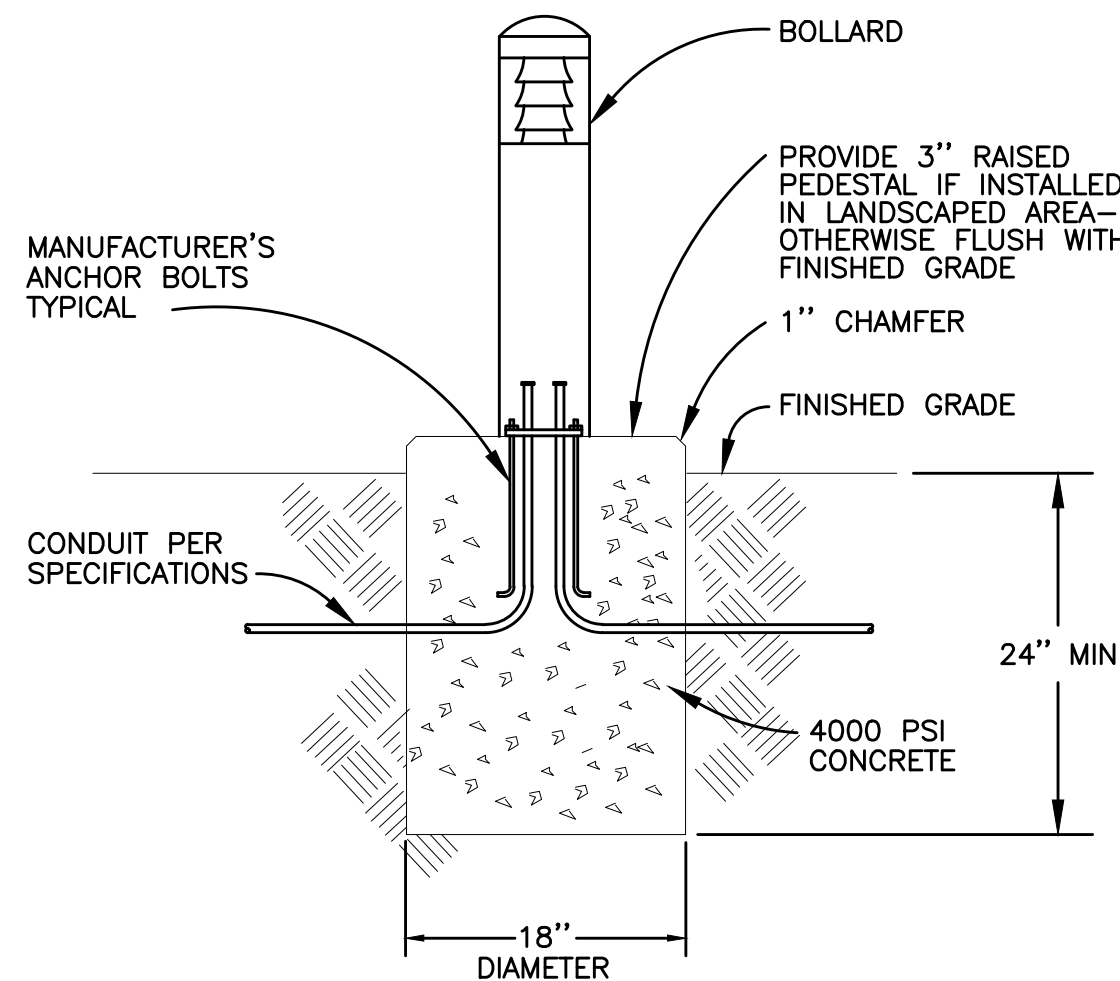
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1
E1.22

EXTERIOR LIGHTING CONTROL
SYSTEM DIAGRAM – LCP

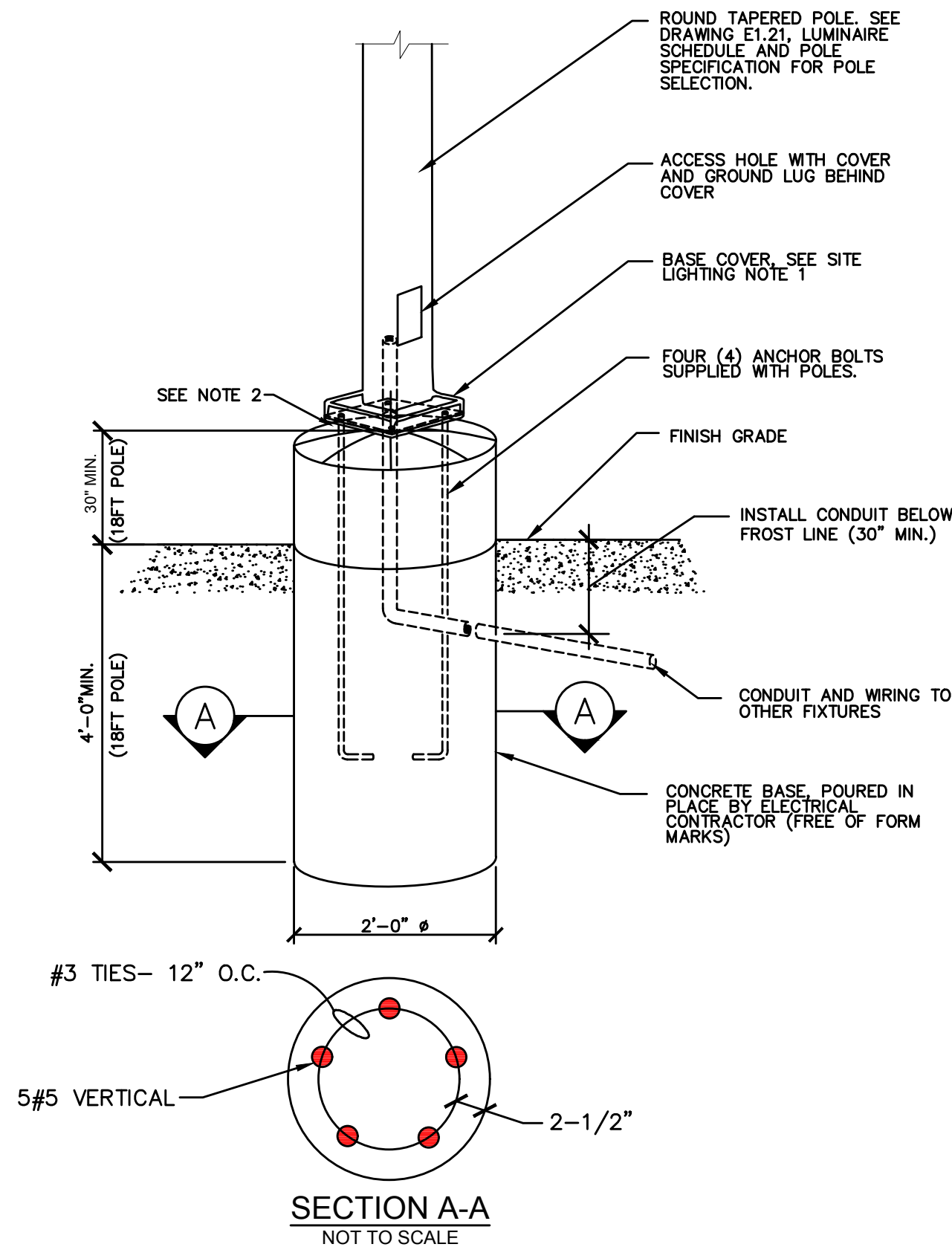
NO SCALE



2
E1.22

BOLLARD LIGHT DETAIL

NO SCALE



3
E1.22

POLE BASE DETAIL (TYPICAL)

NO SCALE

NOTES

- PROVIDE CROWN ON TOP OF CONCRETE BASE TO COMPLETELY SHED WATER.
- 1/2" (MIN) AIRGAP SPACE BETWEEN TOP OF CONCRETE CROWN AND BOTTOM OF POLE BASE PLATE FOR VENTILATION.
- CONCRETE PROVIDER TO ENSURE PSI SUFFICIENT TO SUPPORT WIND RATING FOR POLE HEIGHT PER CODE REQUIREMENTS.

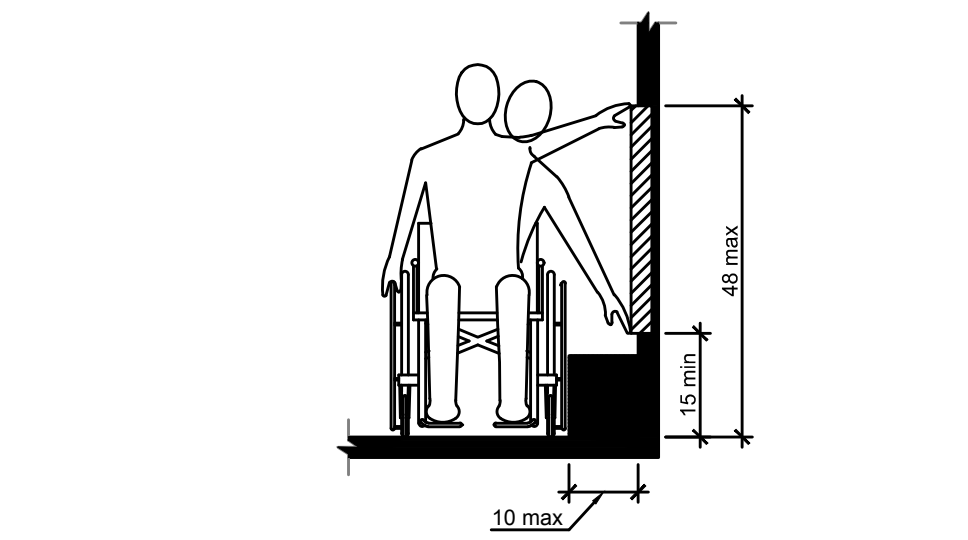


Figure 308.3.1
Unobstructed Side Reach

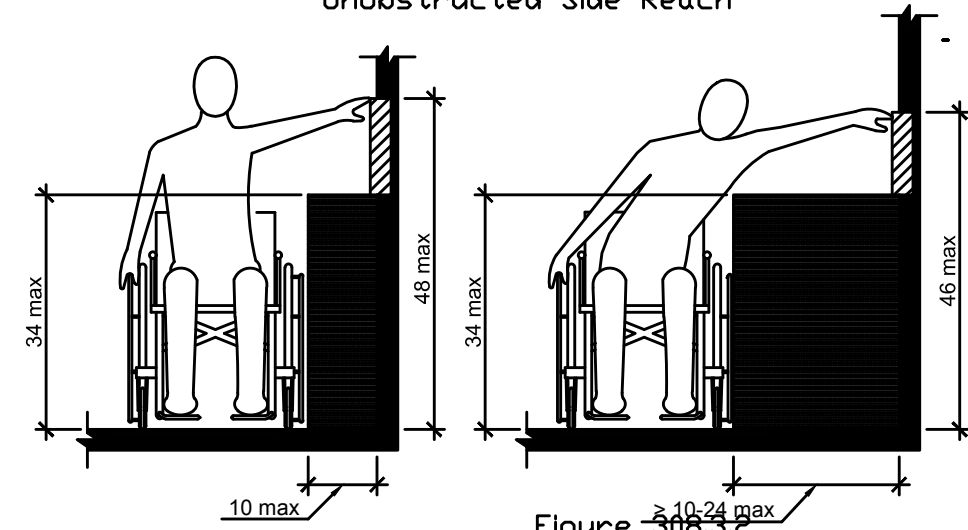


Figure 308.3.2
Obstructed High Side Reach

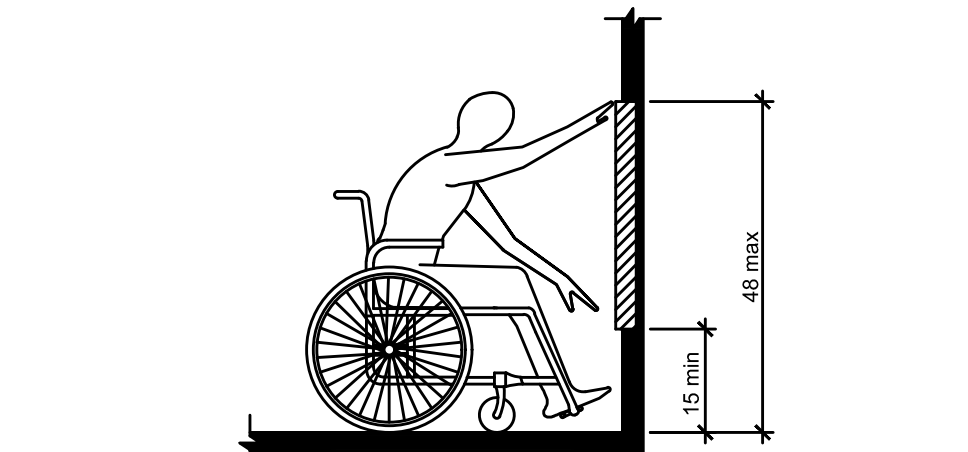


Figure 308.2.1
Unobstructed Forward Reach

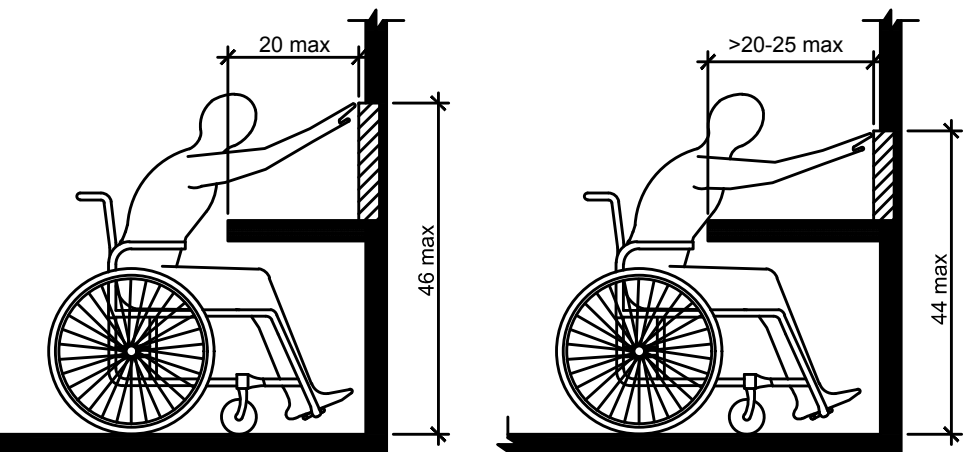


Figure 308.2.2
Obstructed High Forward Reach

4
E1.22

ADA REACH REQUIREMENTS

N.T.S.

308.2 Forward Reach.

308.2.1 Unobstructed. Where a forward reach is unobstructed, the high forward reach shall be 48" maximum and the low forward reach shall be 15" minimum above the floor or ground.

308.2.2 Obstructed High Reach. Where a high forward reach is over an obstruction, the clear floor or ground space shall extend beneath the element for a distance not less than the required reach depth over the obstruction. The high forward reach shall be 48" maximum where the reach depth is 20" maximum. Where the reach depth exceeds 20", the high forward reach shall be 44" maximum and the reach depth shall be 25" maximum.

308.3 Side Reach.

308.3.1 Unobstructed. Where a clear floor or ground space allows a parallel approach to an element and the side reach is unobstructed, the high side reach shall be 48" maximum and the low side reach shall be 15" minimum above the floor or ground.

Exception: Existing elements shall be permitted at 54" maximum above the floor or ground.

308.3.2 Obstructed High Reach. Where a clear floor or ground space allows a parallel approach to an object and the high side reach is over an obstruction, the height of the obstruction shall be 34" maximum and the depth of the obstruction shall 24" maximum. The high side reach shall be 48" maximum for a reach depth of 10" maximum. Where the reach depth exceeds 10", the high side reach shall be 46" maximum for a reach depth of 24" maximum.

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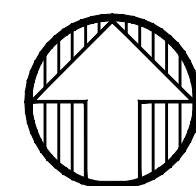
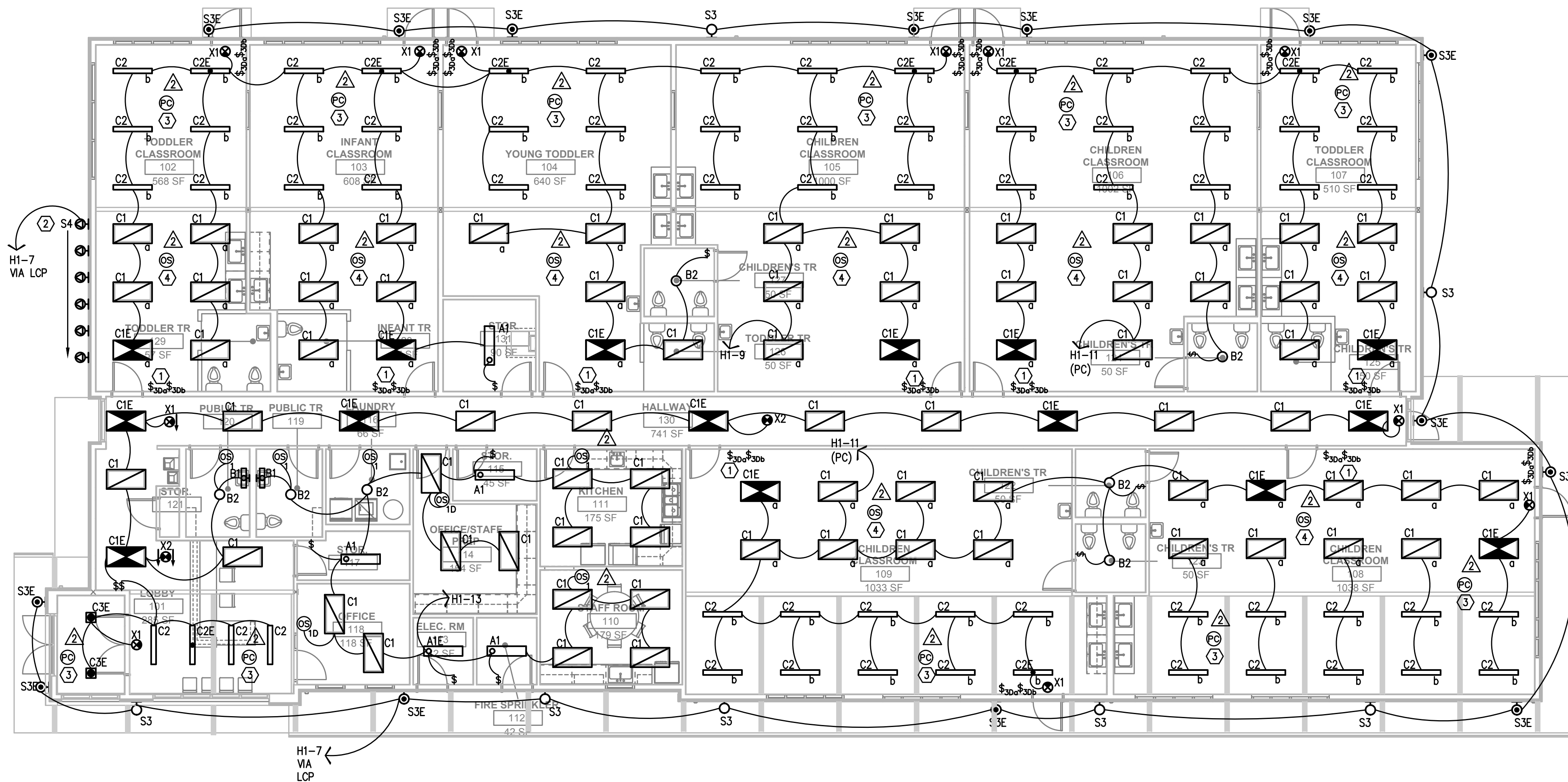
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1 LIGHTING PLAN
E2.01 SCALE: 1/8" = 1'-0"

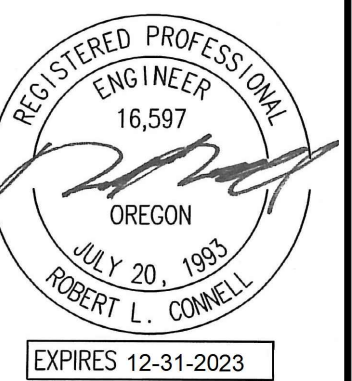
GENERAL LIGHTING NOTES:

- ELECTRICAL DRAWINGS ARE DIAGRAMMATICAL AND MAY NOT ACCURATELY REFLECT ACTUAL CONSTRUCTION CONDITIONS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL ELECTRICAL EQUIPMENT, WITH ALL TRADES PRIOR TO AND DURING CONSTRUCTION.
- WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND NATIONAL CODES.
- THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.
- REFER TO SHEET E1.21 FOR LIGHT FIXTURE SCHEDULE.
- ALL LIGHT SWITCHES SHALL BE ROCKER STYLE, SUCH AS LEVITON DECORA, OR APPROVED EQUAL.
- BUILDING MOUNTED EXTERIOR LIGHTS SHALL BE CIRCUITED FROM THE "HOUSE" BRANCH PANEL, VIA TIME CLOCK UNLESS OTHERWISE NOTED. REFER TO DETAIL 1, SHEET E1.22.
- BUILDING MOUNTED EXTERIOR LIGHTS DESIGNATED AS EGRESS SHALL BE CIRCUITED VIA REMOTE BATTERY BACK-UP. REFER TO DETAIL 2, SHEET E1.21.
- THE ELECTRICAL CONTRACTOR SHALL REFER TO THE MECHANICAL PLAN SHEETS AND COORDINATE WITH THE MECHANICAL INSTALLER TO AVOID CONFLICTS BETWEEN HVAC EQUIPMENT AND LIGHT.

KEYED NOTES:

- EACH LIGHT FIXTURE IN THIS SPACE, WITH A LOWER CASE LETTER DESIGNATION, TO BE CONTROLLED VIA THE CORRESPONDING LIGHT SWITCH.
- SIGN LIGHTING FIXTURES TO BE MOUNTED ABOVE SIGN AT 33" APART, CENTERED ON THE WALL. CONSULT WITH THE ARCHITECT AND ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHT AND LOCATIONS, PRIOR TO ROUGH-IN. COORDINATE WORK WITH THE SIGN INSTALLER.
- LIGHT FIXTURES ADJACENT TO WINDOWS IN THIS SPACE SHALL BE CIRCUITED VIA PHOTOCELL FOR AUTOMATIC DAYLIGHT REDUCTION.
- PROVIDE CEILING MOUNTED OCCUPANCY SENSORS TO TURN OFF ALL LIGHTS (EXCEPT EGRESS FIXTURES) WITHIN 20 MINUTES OF ALL OCCUPANTS LEAVING THE SPACE. CONTRACTOR TO FIELD ADJUST.

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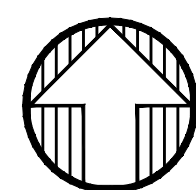
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