

SYMBOL	DESCRIPTION	NOTES
	JUNCTION AND PULL BOXES - SECONDARY LIGHT	AND POWER WIRING
<u></u>	PULL BOX OR JUNCTION BOXOUTLET BOX TYPE WALL MOUNTED WITH FINAL CONNECTION TO EQUIPMENT	
J	PULL BOX OR JUNCTION BOX OUTLET BOX TYPE MOUNTED AT CEILING WITH FINAL CONNECTION TO EQUIPMENT	
	PULL BOX OR JUNCTIONBOX LARGE CUSTOM FABRICATED TYPE	
г— іт— іт	CONDUITS ROUTING UNDERGROUND FOR IT SERVICE	
E — E — E	CONDUITS ROUTING UNDERGROUND FOR ELECTRICAL	
C—C—C	CONDUITS ROUTING UNDERGROUND FOR COMMUNICATION WIRING FOR EV CHARGERS (SEE DWG. E-100)	
	BRANCH CIRCUITS FOR SITE LIGHTING RUN UNDERGROUND ONLY (SEE DWG. E-052)	

SYMBOL	DESCRIPTION	NOTES
	ONE LINE RISER DIAGRAM	
	PULLBOX	REFER TO DRAWING E-700 FOR ONE LINE RISER DIAGRAM
K1 K2	KIRK KEY	
N/C	NORMALLY CLOSED	
N/O	NORMALLY OPEN	
_ \	LOAD INTERRUPTER SWITCHES WITH KIRK KEY INTERLOCK SYSTEM	
	FUSE	
\approx	TRANSFORMER	
M	MAIN SERVICE METER	
	CIRCUIT BREAKER	
- <u>-</u>	GROUND	
	UNFUSED DISCONNECT SWITCH	
	GENERATOR	
5	CURRENT TRANSFORMER	
M	ENERGY METER	

SYMBOL	DESCRIPTION	NOTES
	WIRING DEVICES	
Φ	20A, 125 V DUPLEX RECEPTACLE	PROVIDE GFCI OUTLETS IN BATHROOMS, SERVING DRINKING FOUNTAINS, JANITORS CLOSETS, MOP ROOM, PANTRIES AND WITHIN 6'-0" OF ANY SINK. 'GFI' INDICATES GROUND FAULT INTERRUPT
\$\Pi\$ +42"	MOUNTING HEIGHT WHEN NOT TYPICAL STANDARD DEVICE MOUNTED 18" AFF UNLESS OTHERWISE NOTED	
#	20A, 125 V DOUBLE DUPLEX RECEPTACLE	
B	"NEMA L6-30R" 30A, 250V, 1PH SPECIAL PURPOSE RECEPTACLE 30A 250V	
Å	"NEMA L5-20R" 20A, 1PH SPECIAL PURPOSE RECEPTACLE. 20A 125V	
	FLUSH MOUNTED SHALLOW FLOOR BOX AS MANUFACTURED BY LEGRAND WIREMOLD STL SHL FLR BX 1-GANG OMBX, # 880M1, COORDINATE WITH AND ARCHITECT AND AV CONSULTANT.	FOR DATA/COMUNICATION DEVICES MOUNTED WITHIN FLOOR BOX, REFER TO IT DRAWINGS
	FLUSH MOUNTED SHALLOW FLOOR BOX AS MANUFACTURED BY LEGRAND WIREMOLD STL SHL FLR BX 2-GANG OMBX, # 880M2 FOR 2 GANG BOX FLUSH MOUNTED SHALLOW FLOOR BOX AS MANUFACTURED BY LEGRAND WIREMOLD STL SHL FLR BX 3-GANG OMBX, # 880M3 FOR 3 GANG BOX	

YMBOL	DESCRIPTION	NOTES
D \$	PJ2-2B-GBL-L01 434 MHZ PICO WIRELESS 2 BUTTON CONTROL	a,b,c,d DENOTES
D2 \$	PJ2-4B-GBL-L31 434 MHZ PICO WIRELESS 4 BUTTON CONTROL	CONTROL ZONES ALL SENSORS SHALL AUTOMATICALLY TURN OFF
GW C	PREMIUM VIVE HUB HJS-2-FM	LIGHTS WITHIN 20 MINUTES AND MANUALLY TURN ON THE LIGHTS.
OS C	LRF2-OCR2B-P-WH OCCUPANCY/ VACANCY SENSOR	A DENOTES AUTOMATIC ON SENOR
VS C	LRF2-VCR2B-P-WH VACANCY SENSOR	
PC C	LRF2-DCRB-WH 434MHZ WIRELESS DAYLIGHT SENSOR	REFER TO DRAWING E-503 FOR LIGHTING CONTROLS
PP C	POWPAK OR MAESTRO FOR WIRELESS LOAD CONTROL	WIRING DIAGRAM, NOTES, AND DETAILS
(VS) W	MRF2S-6ANS-WH MAESTRO WIRELESS WALL MOUNTED VACANCY SENSOR SWITCH	

SYMBOL	DESCRIPTION	NOTES
	LIGHTING FIXTURES	
 	CEILING MOUNTED LIGHTING FIXTURES	UPPER CASE LETTERS INSCRIBED IN SYMBOL INDICATE FIXTURE TYPE REFERENCES TO FIXTURE LIST SUBSCRIPT LOWER CASE LETTERS INDICATE SWITCH CONTROL ASSOCIATIONS (OR CONTROL ZONE
어	WALL MOUNTED LIGHTING FIXTURES	DESIGNATION WHERE APPLICABLE, SEE BELOW)
1	WALL MOUNTED SCONCE LIGHTING FIXTURES	INDICATION THUS: LPH-17 DENOTES CIRCUIT NUMBER, * WITH * SIGNIFYING RELAY CONTROLLED LIGHTING FIXTURE
SL1	SITE LIGHTING (REFER TO DRAWING E-051 FOR SITE PLAN AND E-601 FOR LIGHTING SCHEDULE)	CONTROLLED LIGHTING FIXTURE COLPH-17 * LPH-17 *
	EXIT SIGNS	
\otimes	WALL MOUNTED LED EXIT SIGN WITH EMERGENCY 90 MINS BATTERY PACK EXTRONIX MODEL# 903 OR APPROVED EQUAL	APPLICATION OF SHADED QUADRANTS AND ARROWS THUS:
\otimes	PENDANT CEILING MOUNTED LED EXIT SIGN WITH "EM" 90 MINS BATTERY PACK EXTRONIX MODEL# 903 OR APPROVED EQUAL	INDICATE LETTERED FACE AND DIRECTIONAL ARROWS AT SYMBOLS FOR SIGNS FOR WHICH SELECTION OF SUCH FEATURES IS REQUIRED. FINAL LOCATION AND MOUNTING TYPE SUBJECT TO ARCHITECT APPROVAL

SYMBOL	DESCRIPTION	NOTES
	SECONDARY INDIVIDUALLY MOUNTED OVERCURRENT AND/OR SWITCHING DEVICE TAG SYMBOL INDIVIDUALLY MOUNTED OVERCURRENT AND SWITCHING DEVICES ARE FOR SURFACE MOUNTING UNLESS THE TAG SYMBOL CARRIES AN EXTERNAL SUBSCRIPT "f" INDICATING FLUSH MOUNTING.	INFORMATION IS LISTED IN THE TAG SYMBOL THUS: "600" OR "250" INDICATES VOLT- AGE RANGE AT WHICH DEVICE IS TO OPERATE. "2", "3", "3+N", ETC, INDICATES "3 POLE "3 POLE "3 POLE PLUS NEUTRAL, "ETC. "U" INDICATES THAT NO OVERCURRENT PROTECTION IS REQUIRED - NUMBER INDICATES SIZE OF OVERCURRENT PROTECTION REQUIRED
	INDEXING SYMBOL	HEXAGONAL SYMBOLS CONTAINING UPPER CASE LETTERS WITH OR WITHOUT ARABIC NUMERALS INDICATE REFERENCE TO A LEGEND OR INDEX OF SPECIAL EQUIPMENT AS IDENTIFIED ON THE EQUIPMENT LEGEND ON DRAWIN E-603. HEXAGONAL SYMBOLS CONTAINING ARABIC NUMERALS ONLY INDICATE REFERENCE TO AN EXPLANATION OF ELECTRIC WORK REQUIREMENTS.

SYMBOL	DESCRIPTION	NOTES
	LIGHTNING PROTECTION	
Ť	LIGHTNING PROTECTION GROUND ROD (TYP.), SEE DETAIL 5 IN DRAWING E-501	FOR LIGHTNING PROTECTION FLOOR PLAN REFER TO DRAWING E-121.
Δ	THRU-ROOF ROD AND COPPER CONDUCTOR IN 1" PVC CONDUIT CONCEALED WITHIN BUILDING CONSTRUCTION TO MAIN ROOF (TYP.) SEE DETAIL 4 IN DRAWING E-501	FOR LIGHTNING PROTECTION DETAILS REFER TO DRAWING E-501
•A	12" AIR TERMINAL SEE DETAIL 1 IN DRAWING E-501	
В	12" AIR TERMINAL AT SCREEN WALL (TYP.) SEE DETAIL 2 IN DRAWING E-501	
O C	12" AIR TERMINAL ATOP GENERATOR (TYP.) SEE DETAIL 3 IN DRAWING E-501	
	LIGHTNING PROTECTION CABLE FASTENED TO SCREEN WALL EVERY 36" MAX. (TYP.)	
	COPPER LIGHTNING PROTECTION DOWN CONDUCTOR	

GENERAL SHEET NOTES:

- 1. FOR PANEL SCHEDULES REFER TO DRAWING E-600 AND E-601.
- 2. FOR LIGHTING FIXTURE SCHEDULES REFER TO DRAWING E-601.
- 3. FOR LIGHTING CONTROL ZONE SCHEDULES REFER TO DRAWING E-602.
- 4. FOR LEGEND OF EQUIPMENT SCHEDULE REFER TO DRAWING E-110.
- 5. FOR ONE-LINE DIAGRAM REFER TO DRAWING E-700.

ELECTRICAL ABBREVIATIONS

THIS LIST OF ABBREVIATIONS DOES NOT APPLY TO ANY LETTERS USED IN CONJUCTION WITH SYMBOLS

			•	•	
A	AMPS	GA	GAUGE	SP	SPARE
AC	ALTERNATING CURRENT	GALV	GALVANIZED	SPECS	SPECIFICATIONS
ADJ	ADJACENT	GD	GROUND	SPKLR	SPRINKLER
AFD	AUTOMATIC FIRE DETECTION	Н	HERMETIC	SPKR	SPEAKER
AFF	ABOVE FINISHED FLOOR	НС	HUNG CEILING	SQ	SQUARE
AFG	ABOVE FINISHED GRADE	HGT	HEIGHT	STD	STANDARD
AIR COND	AIR CONDITIONING	HOR	HORIZONTAL	SURF	SURFACE
AP	APPLIANCE PANEL	HP	HORSEPOWER	SW	SWITCH
ARCH	ARCHITECTURAL	HT	HIGH TENSION	SWBD	SWITCHBOARD
ASYM	ASYMMETRICAL	HTG	HEATING VENTULATING	SYM	SYMETRICAL
AUTO	AUTOMATIC	HVAC	HEATING VENTILATING	TEL	TELEPHONE
AVG	AVERAGE	15.1	AND AIRCONDITIONG	TELCO	TELEPHONE CO.
BL	BLANK	IN	INCHES	TV	TELEVISION
BLDG	BUILDING	INCAN	INCANDESCENT	TYP	TYPICAL
<u>C</u>	CONDUIT	INT	INTERCOM	UFD	UNDER FLOOR DUCT
CAB	CAB	JB	JUNCTION BOX	V	VOLTS
CAT	CATALOGUE	KVA	KILOVOLT AMPERES	VENT	VENTILATING
CKT	CIRCUIT	KW	KILOWATT	VERT	VERTICAL
CL	CLOCK	KWH	KILOWATT HOURS	VP	VAPORPROOF
CLG	CEILING	LP	LIGHTING PANEL	W	WATTS
CLOS	CLOSET	LS	LOUDSPEAKER	WE	WEST
CM	CIRCULAR MIL	LT	LOW TENSION	WGD	WITH GUARD
COL	COLUMN	LTG	LIGHTING	WP	WEATHERPROOF
CONC	CONCRETE	M	MAIN	WR	WOUND ROTOR
CONST	CONSTRUCTION	MA	MILLIAMPS	WT	WIRING TROUGH
CONT	CONTINUOUS	MACH	MACHINE	XFMR	TRANSFORMER
CONV	CONVENIENCE	MCC	MOTOR CONTROL CENTER	YD	YARD
CS CS	CABLE SUPPORT	MCM	THOUSE CIRCULAR MILS	#	WIRE GAUGE NUMBER
00	CABLE GOLF OKT	IVICIVI	THOUSE CIRCULAR MILES	(UNRELAT ED TO WORDS	WINE GAUGE NUMBER
CU	CUBIC	MECH	MECHANICAL	PH	PHASE
DC	DIRECT CURRENT	MIC	MICROPHONE	F@	FUSED AT
DIA	DIAMETER	MISC	MISCELLANEOUS	С	CENTER LINE
DN	DOWN	MTD	MOUNTED		
DP	DISTRIBUTION PANEL	MTR	MOTOR		
DTL	DETAIL	N	NEUTRAL	C/B	CIRCUIT BREAKER
DWG	DRAWING	NEC	NATIONAL ELECTRICAL CODE	CONV/O	CONVENIENCE OUTLET
EA	EAST	NEMA	NATIONAL ELEC MANUFACTURERS ASSOCIATION	C/T	CURRENT TRANSFORMER
EC	EMPTY CONDUIT	NL	ON NIGHT LIGHTING CIRCUIT	P/T	POTENTIAL
<u></u>	ELEVATION:		OVERLOAD.	0/0	TRANSFORMER
ELEO	ELEVATION	OL P	OVERLOAD	O/C	OVERCURRENT
ELEC	ELECTRICAL	<u>'</u>	POLES	C.C	CENTER TO CENTER
ELEV	ELEVATOR	PB	PULLBOX	N/O	NORMALLY OPEN
EM	ON EMERGENCY CIRCUIT	PC	PULL CHAIN	N/C	NORMALLY CLOSED
ENTR EP	ENTRANCE EXPLOSION PROOF	PF PG	POWER FACTOR PAGING	1/C, 2/C 3/C	ONCE CONDUCTOR TWO CONDUCTORS,
EQ	EQUAL	PH	PHASE		ETC.
EQPMT	EQUIPMENT	PLB	PLUMBING	1	1
EXIST	EXISTING	PNL	PANEL	1	†
= • .	FLOOR	PP	POWER PANEL	+	†
=A	FIRE ALARM	PWR	POWER	+	
DR	FEEDER	RC	REMOTE CONTROL	+	+
-DR -IN	FINISH	REC	RECEPTACLE	+	+
IIN				+	1
ロンエ	FIXTURE	REQ	REQUIRED	1	1
	FLUOLI	11.74.7	IROOM		
FL	FLUSH	RM			
FL FLUOR	FLUORESCENT	RMS	ROOT MEAN SQUARE		
FLUOR FSTP	FLUORESCENT FIRE-STANDPIPE	RMS S	ROOT MEAN SQUARE SOUND		
FIXT FL FLUOR FSTP FT	FLUORESCENT	RMS	ROOT MEAN SQUARE		

ELECTRICAL DRAWING LIST

SHEET NUMBER	SHEET NAME					
E-001	ELECTRICAL SYMBOLS AND DRAWING LIST					
E-051	ELECTRICAL SITE PLAN					
E-052	ELECTRICAL LIGHTING SITE PLAN					
E-100	ELECTRICAL POWER PLAN - 1ST FLOOR					
E-110	ELECTRICAL EQUIPMENT POWER PLAN - 1ST FLOOR					
E-111	ELECTRICAL EQUIPMENT POWER PLAN - ROOF					
E-121	ELECTRICAL LIGHTNING PROTECTION PLAN					
E-150	ELECTRICAL LIGHTING PLAN - 1ST FLOOR					
E-400	ELECTRICAL ENLARGED VIEWS - SHEET 1					
E-500	ELECTRICAL DETAIL SHEET 1					
E-501	ELECTRICAL DETAIL SHEET 2					
E-502	ELECTRICAL DETAIL SHEET 3					
E-503	ELECTRICAL DETAIL SHEET 4					
E-504	ELECTRICAL DETAIL SHEET 5					
E-600	ELECTRICAL SCHEDULES SHEET 1					
E-601	ELECTRICAL SCHEDULES SHEET 2					
E-602	ELECTRICAL SCHEDULES SHEET 3					
E-603	ELECTRICAL SCHEDULES SHEET 4					
E-700	ELECTRICAL RISER DIAGRAM					

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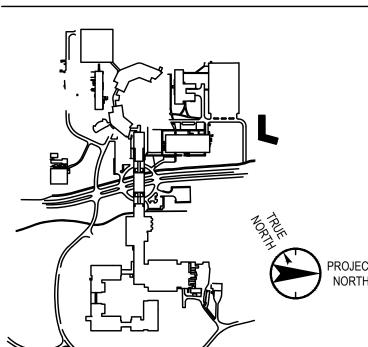
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Key Plan



No. Date Description 0 05.20.2022 ISSUED FOR PERMIT 1 06.20.2022 100% CONSTRUCTION DOCUMENTS 07.01.2022 100% CONSTRUCTION DOCUMENTS-1

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Professional Seal and Signature

Vendor Name: COSENTINI
Vendor Project No.: 210104
Discipline: Electrical Drawn By: Al

ELECTRICAL SYMBOLS AND DRAWING LIST

Scale: NTS

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE

2020 ENERGY CONSERVATION CODE OF NYS

This plan is approved only for work indicated on the application specification sheet. All other matters shown are by an unlicensed person is a violation of Chapter 16 not to be relied upon, or to be considered as either being approved or in accordance with applicable codes.

Alterations or additions to this engineering document Title VIII, Article 145 § 7209.2 of the New York State Education Law.

WARNING TAPE 12" BELOW GRADE ——— (2) 4" CONDUITS ROUTED

1. PROVIDE ORANGE-COLORED WARNING TAPE WITH THE INSCRIPTIONS "TELEPHONE CABLE, CATV CABLE, COMMUNICATIONS CABLE, OPTICAL FIBER CABLE", TAPE SHALL BE 1'-0" ABOVE ENCASED CONCRETE. REFER TO SPECIFICATION 26-04-53 FOR ADDITIONAL INFORMATION.

1 SITE POWER PLAN 1" = 20'-0"

RED-COLORED WARNING TAPE WITH THE INSCRIPTIONS "ELECTRIC LINE, HIGH VOLTAGE" 12" BELOW GRADE - EACH PRIMARY FEEDER SHALL CONSIST OF 3#500KCMIL & 1# 4/0G 15KV FEEDER 5"C RIGID PVC + 1-5"C SPARE CONDUIT ENCASED IN CONCRETE TO EXISTING MANHOLES

1. PROVIDE RED-COLORED WARNING TAPE WITH THE INSCRIPTIONS "ELECTRIC LINE, HIGH VOLTAGE", TAPE SHALL BE 1'-0" ABOVE ENCASED CONCRETE. REFER TO SPECIFICATION 26-04-53 FOR ADDITIONAL INFORMATION.

2 UNDERGROUND CONDUIT DUCT BANK DETAIL 1/4" = 1'-0"

NOTES:

SPECIFIED ELSEWHERE.

UINLESS DIRECTED OTHERWISE.

1. COORDINATE EXCAVATION AND BACKFILL FOR UNDERGROUND

2. ALL UNDERGROUND CONDUITS SHALL BE RIGID GALVANIZED

CONDUIT PVC COATED WITH THREADED FITTINGS. UNLESS

3. ALL UNDERGROUND CONDUITS TO BE INSTALLED 24" BELOW GRADE.

4. CONTRACTOR TO STUB-UP IT CONDUITS TO 8'-0" A.F.F. TO THE POLE

REFER TO CIVIL ENGINEERS

DRAWINGS C-300 FOR PROPOSED

ELECTRICAL SERVICE ROUTING

EXTERIOR CONDUITS WITH GENERAL CONTRACTOR.

REFER TO DETAILS ON DRAWING THIS DRAWING.

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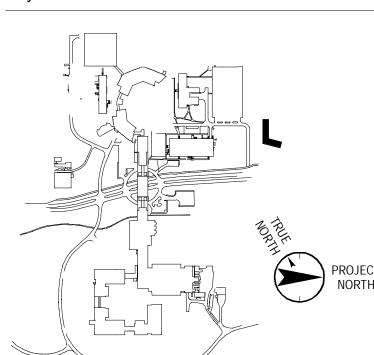
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Key Plan



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Professional Seal and Signature

Vendor Name: COSENTINI Vendor Project No.: 210104 Discipline: Electrical ELECTRICAL SITE PLAN

Scale: As indicated Floor:

UNDERGROUND FOR IT SERVICE

ENCASED IN CONCRETE TO

EXISTING UTILITY POLE (BY

ELECTRICAL CONTRACTOR)

1/16" = 1'-0"

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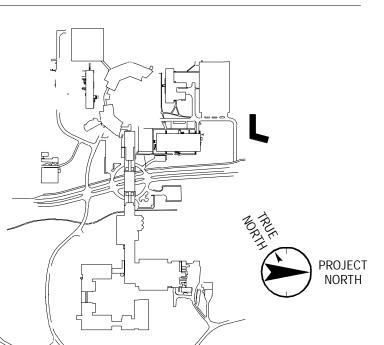
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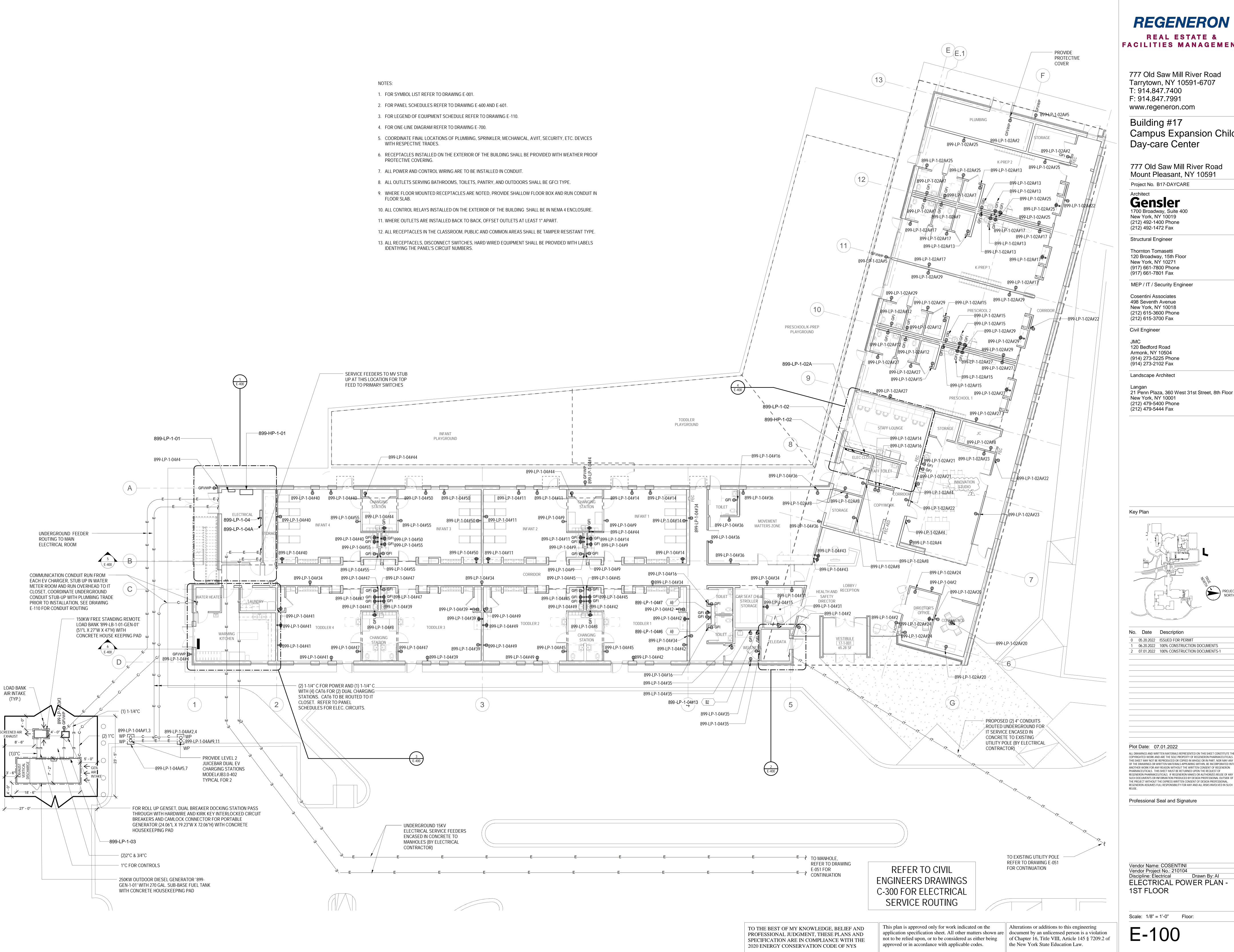
Vendor Name: COSENTINI Vendor Project No.: 210104 Discipline: Electrical Drawn By: AI
ELECTRICAL SITE LIGHTING

Scale: 1/16" = 1'-0" Floor:

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PLAN



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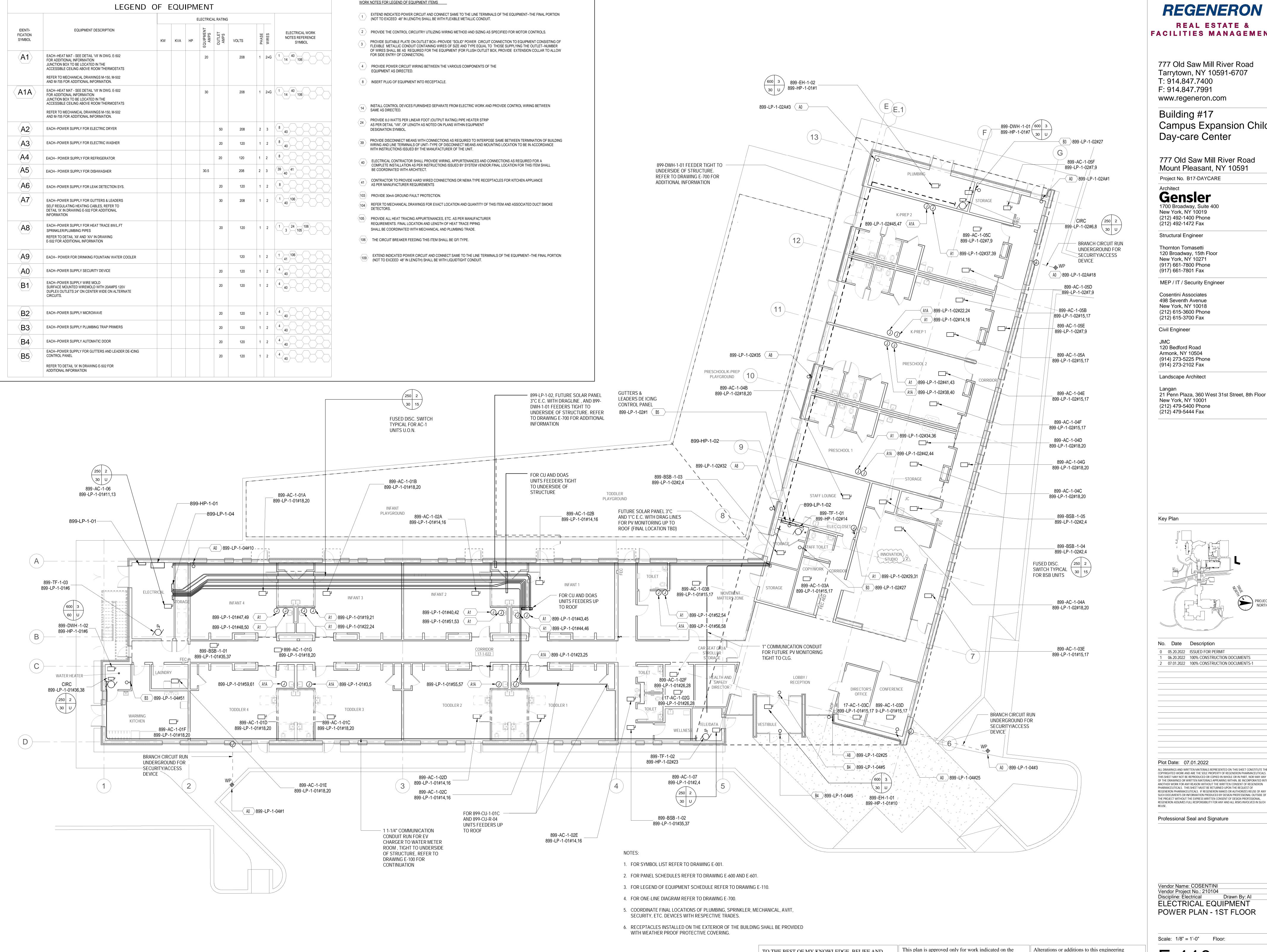
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Professional Seal and Signature

Vendor Name: COSENTINI Vendor Project No.: 210104 Discipline: Électrical ELECTRICAL POWER PLAN -1ST FLOOR

Scale: 1/8" = 1'-0" Floor:



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Professional Seal and Signature

Vendor Name: COSENTINI Vendor Project No.: 210104 Discipline: Electrical Drawn By: Al ELECTRICAL EQUIPMENT POWER PLAN - 1ST FLOOR

Scale: 1/8" = 1'-0" Floor:

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of Chapter 16, Title VIII, Article 145 § 7209.2 of the New York State Education Law.

1) ROOF EQUIPMENT POWER PLAN
1/8" = 1'-0"

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Building #17 Campus Expansion Child Day-care Center

777 Old Saw Mill River Road Mount Pleasant, NY 10591

Project No. B17-DAYCARE

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1700 Broadway, Suite 400
New York, NY 10019
(212) 492-1400 Phone
(212) 492-1472 Fax

Structural Engineer

Thornton Tomasetti 120 Broadway, 15th Floor New York, NY 10271 (917) 661-7800 Phone (917) 661-7801 Fax

MEP / IT / Security Engineer

Cosentini Associates 498 Seventh Avenue New York, NY 10018 (212) 615-3600 Phone (212) 615-3700 Fax

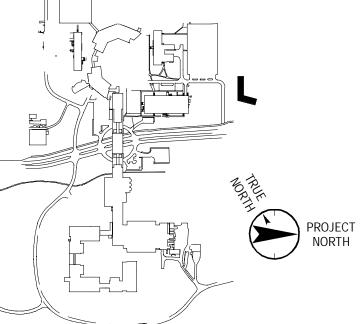
Civil Engineer JMC 120 Bedford Road Armonk, NY 10504 (914) 273-5225 Phone

Landscape Architect

(914) 273-2102 Fax

Langan 21 Penn Plaza, 360 West 31st Street, 8th Floor New York, NY 10001 (212) 479-5400 Phone (212) 479-5444 Fax

Key Plan



No. Date Description 0 05.20.2022 ISSUED FOR PERMIT 1 06.20.2022 100% CONSTRUCTION DOCUMENTS

2 07.01.2022 100% CONSTRUCTION DOCUMENTS-1

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Professional Seal and Signature

Vendor Name: COSENTINI Vendor Project No.: 210104
Discipline: Electrical Drawn By: Al ELECTRICAL EQUIPMENT POWER PLAN - ROOF

Scale: 1/8" = 1'-0" Floor:

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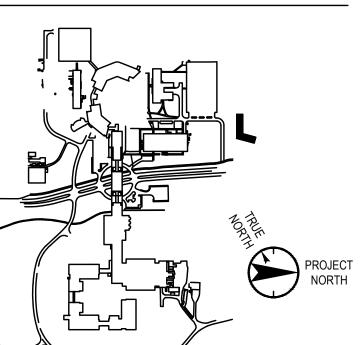
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Professional Seal and Signature

Drawn By: Al Discipline: Electrical **ELECTRICAL** LIGHTNING PROTECTION

Scale: 1/8" = 1'-0" Floor:

1/8" = 1'-0"

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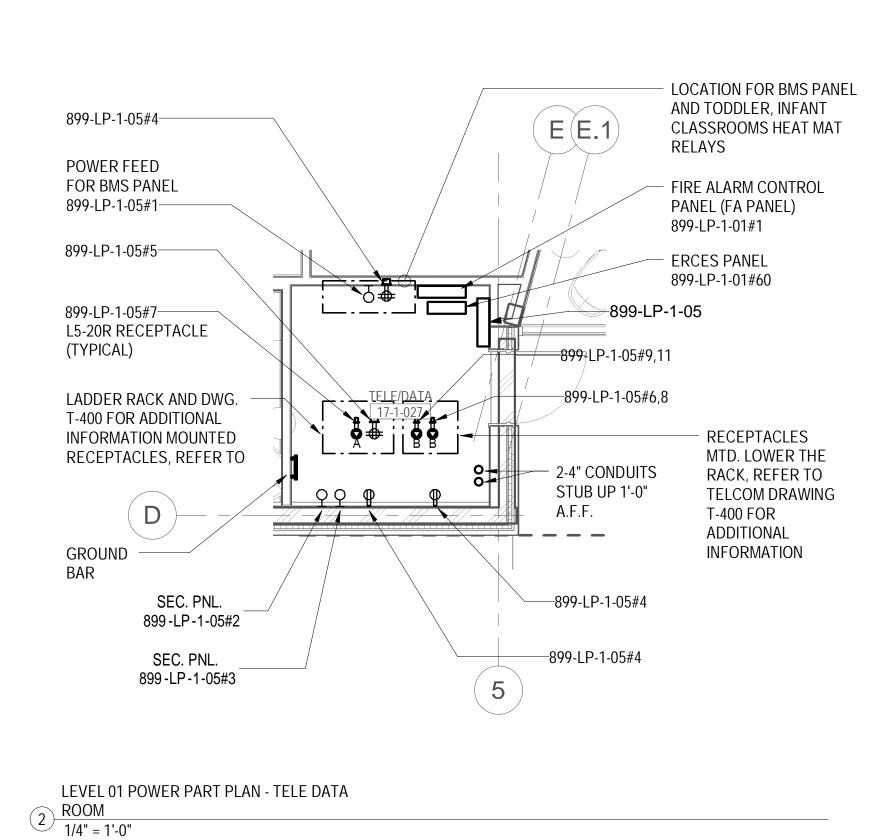
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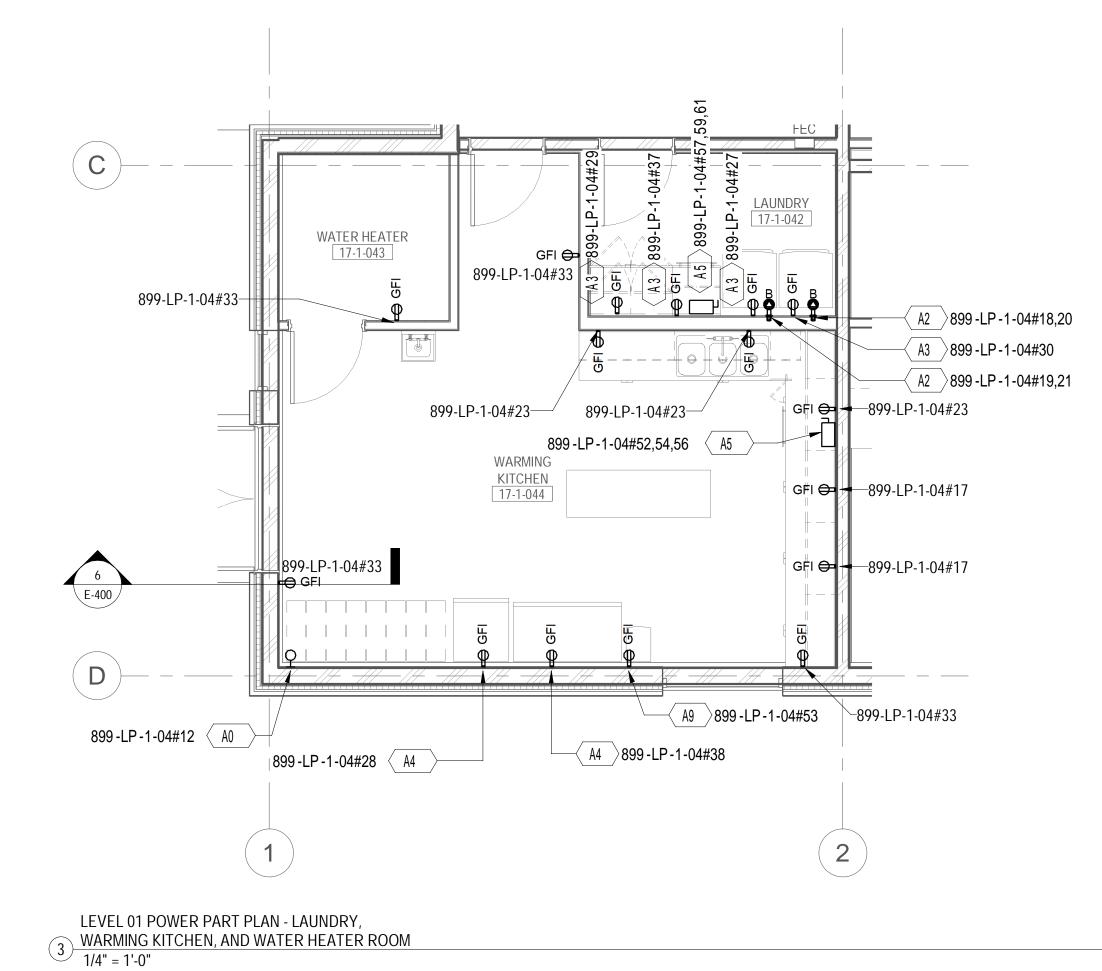
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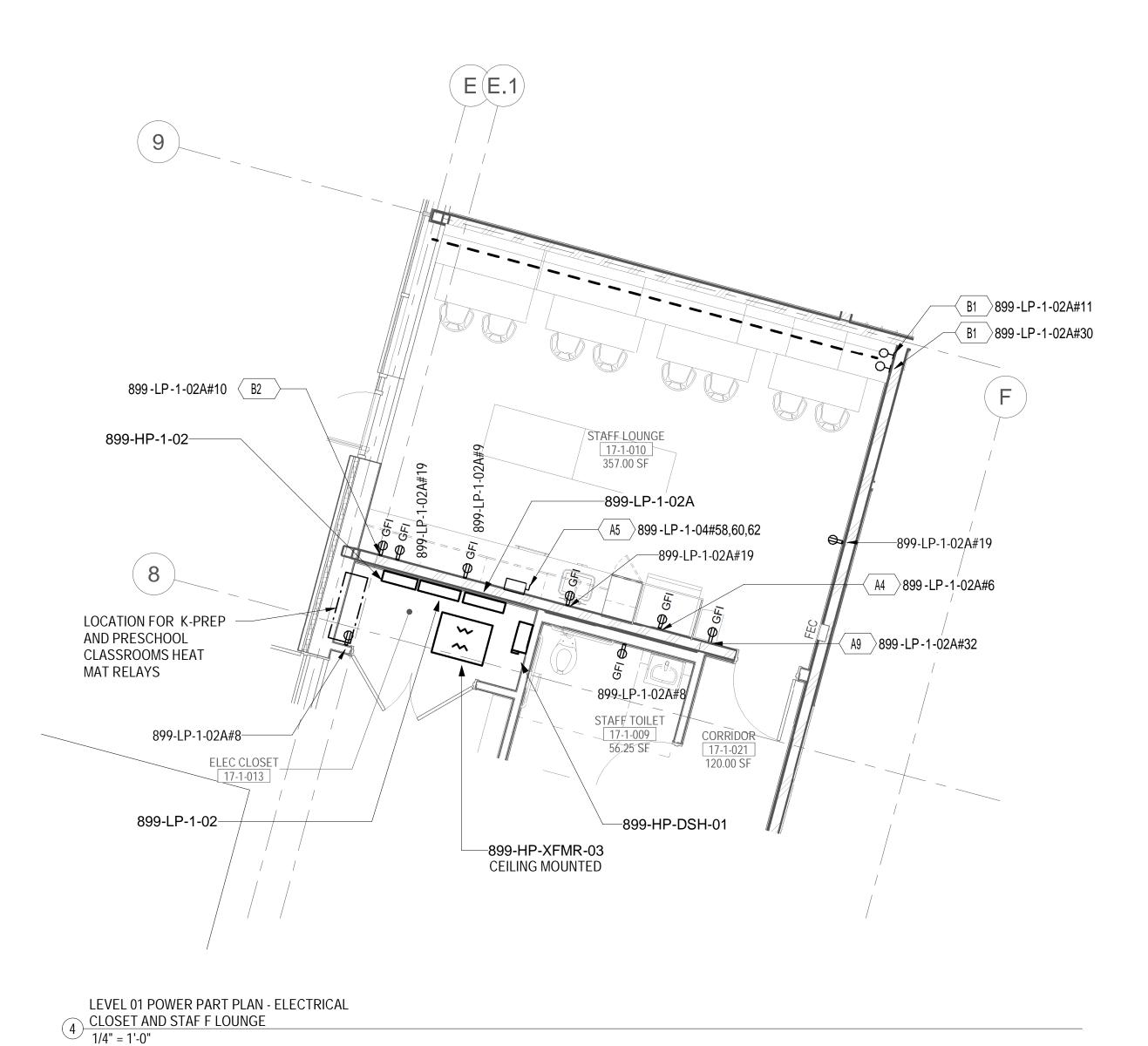
Vendor Name: COSENTINI Vendor Project No.: 210104 Discipline: Electrical ELECTRICAL LIGHTING PLAN -1ST FLOOR

Scale: 1/8" = 1'-0" Floor:

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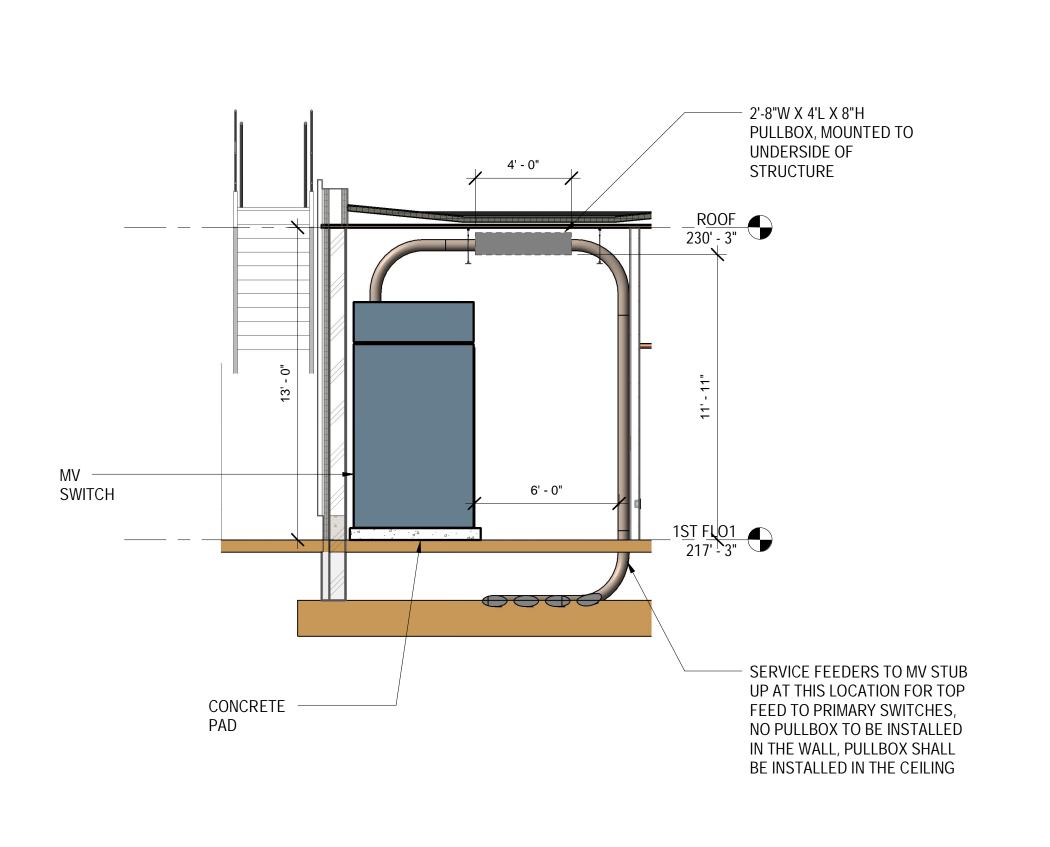




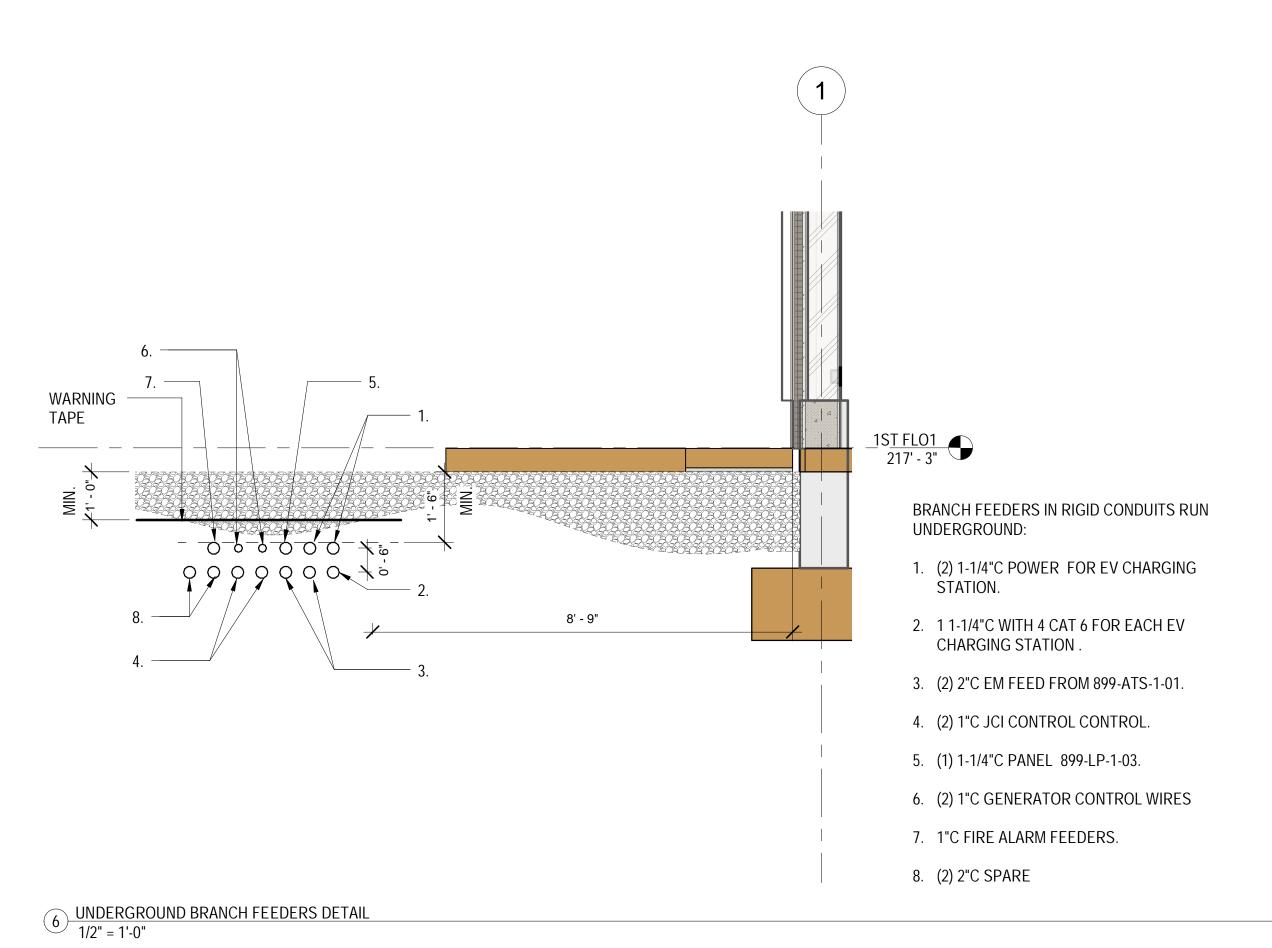


LEVEL 01 POWER PART PLAN - ELECTRICAL

1) ROOM 1/4" = 1'-0"



5 ELECTRICAL ROOM ELEVATION PART PLAN



GENERAL SHEET NOTES:

- 1. FOR SYMBOL LIST REFER TO DRAWING E-001.
- 2. FOR PANEL SCHEDULES REFER TO DRAWING E-600 AND E-601.
- 3. FOR LIGHTING FIXTURE SCHEDULES REFER TO DRAWING E-601.
- 4. FOR LIGHTING CONTROL ZONE SCHEDULES REFER TO DRAWING E-602.

7. COORDINATE FINAL LOCATIONS OF PLUMBING, SPRINKLER, MECHANICAL,

- 5. FOR LEGEND OF EQUIPMENT SCHEDULE REFER TO DRAWING E-110.
- 6. FOR ONE-LINE DIAGRAM REFER TO DRAWING E-700.
- AV/IT, SECURITY, ETC. DEVICES WITH RESPECTIVE TRADES.
- 8. DEVICES SUBJECT TO OUTSIDE ELEMENTS OUTSIDE SHALL BE PROVIDED WITH WEATHER PROOF PROTECTIVE COVERING AND WEATHERPROOF TYPE.

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Vendor Name: COSENTINI Vendor Project No.: 210104 Discipline: Electrical Drawn By: Al ELECTRICAL ENLARGED

Scale: As indicated Floor:

VIEWS - SHEET 1

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TYPICAL DOWNLEAD TO GROUND LOOP OR GROUND ROD DETAIL

CONNECT AHEAD OF WATER

COPPER ADJUSTABLE TYPE PIPE BONDING STRAP.
INSTALLING CONTRACTOR TO FIELD

TINNED COPPER TYP. U-BOLT PIPE BONDING CLAMPS. INSTALLING CONTRACTOR TO FIELD

ADJUST AND INSURE A SECURE BOND.

NO. LPC5962, 2" O.D. TO 2-3/4" O.D.

NO. LPC5964, 4" O.D. TO 4-1/2" O.D.

NO. LPC5966, 4-1/2" O.D. TO 6-1/2" O.D.

CAST BRONZE PIPE BONDING CLAMP. INSTALLING CONTRACTOR TO FIELD

ADJUST AND INSURE A SECURE BOND. NO. LPC580 3/4" O.D. TO 1-5/16" O.E.

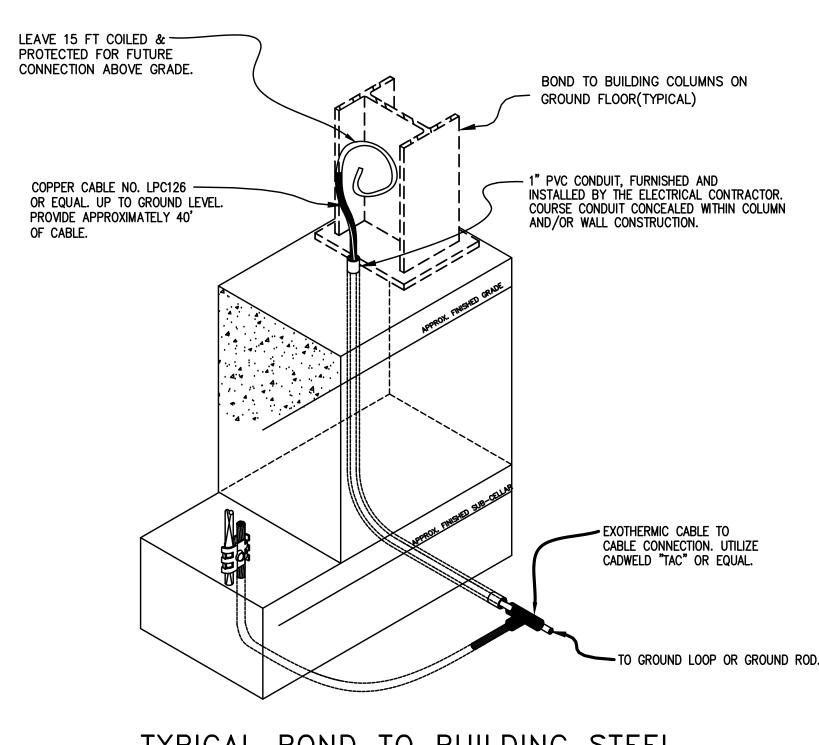
NO. LPC126R COPPER CABLE —

BRUSH-ON COATING OF FLASH-ING GRADE, FIBRATED ASPHALT ROOFING CEMENT TO A MINIMUM THICKNESS OF 120 MILS.

ADJUST AND INSURE A SECURE BOND.

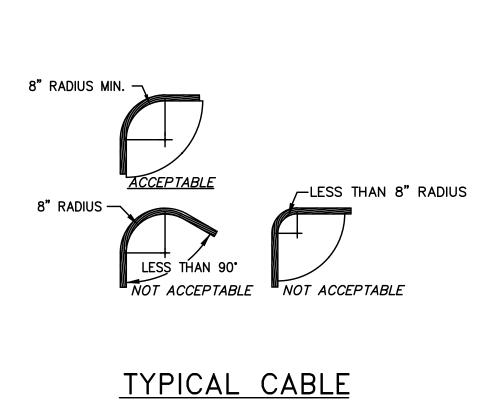
NO. LPC588 6-5/8" TO 8-5/8" O.D. NO. LPC590 8-5/8" TO 10-3/4" O.D.

NO. LPC126R COPPER CABLE -

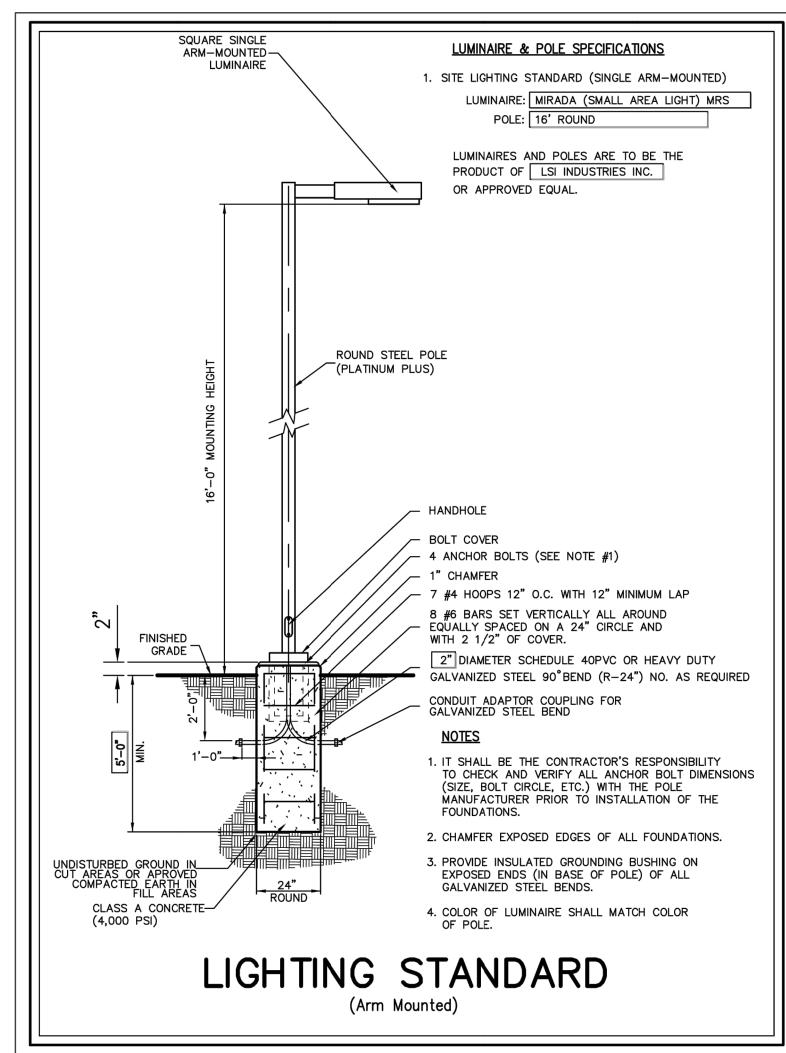


TYPICAL BOND TO BUILDING STEEL NOT TO SCALE DETAIL

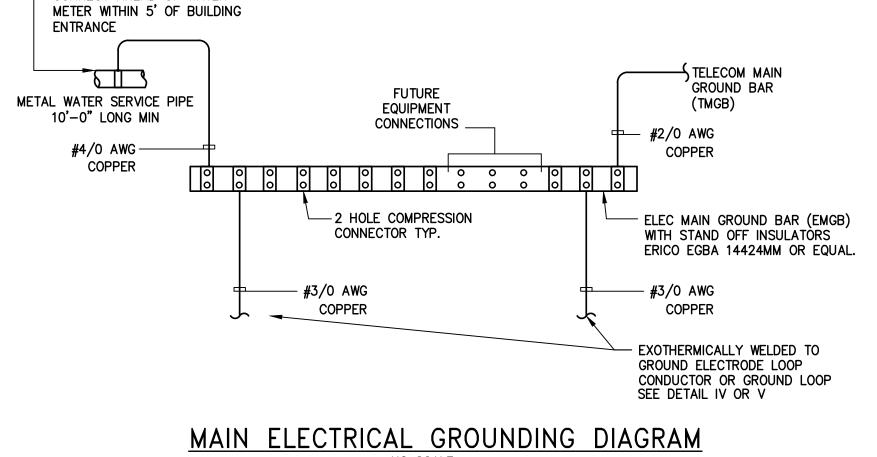
NOTE: COORDINATE DOWN CONDUCTORS CONNECTIONS WITH FOUNDATION CONTRACTOR



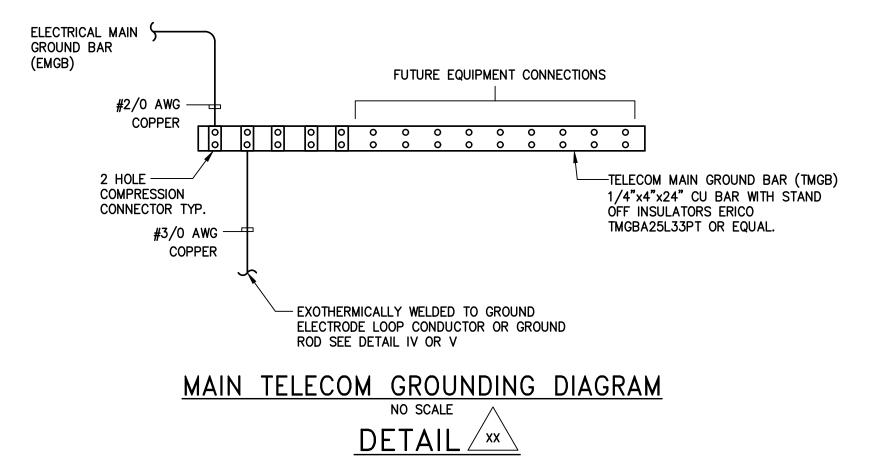
BEND REQUIREMENTS NOT TO SCALE / DETAIL VII

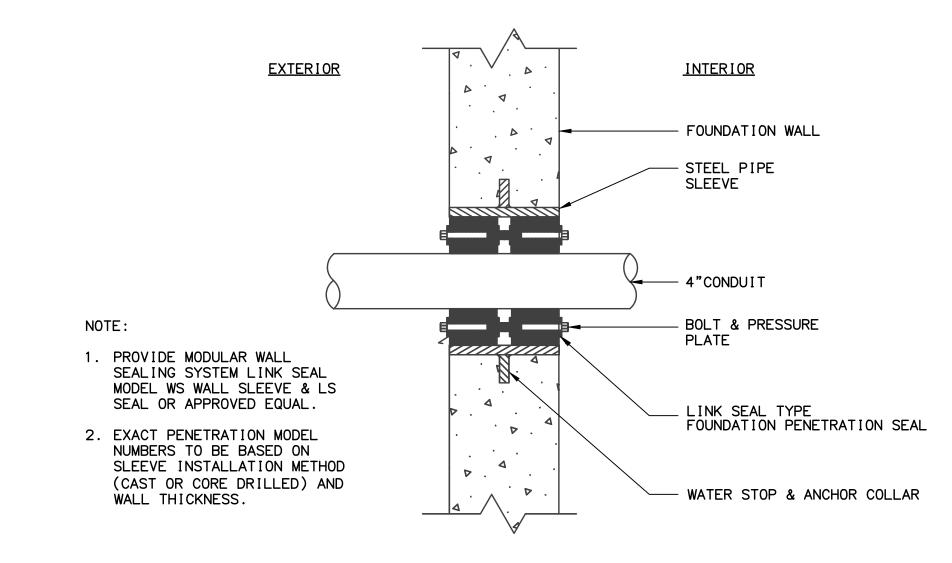


DETAIL /IX

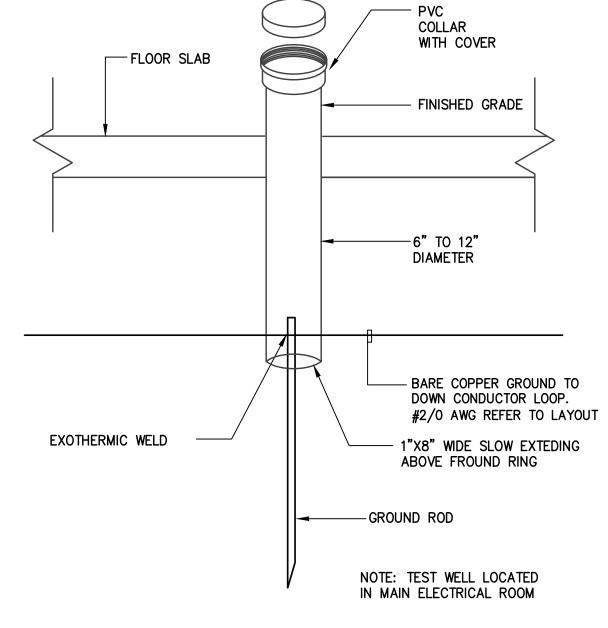


NO SCALE DETAIL XIX



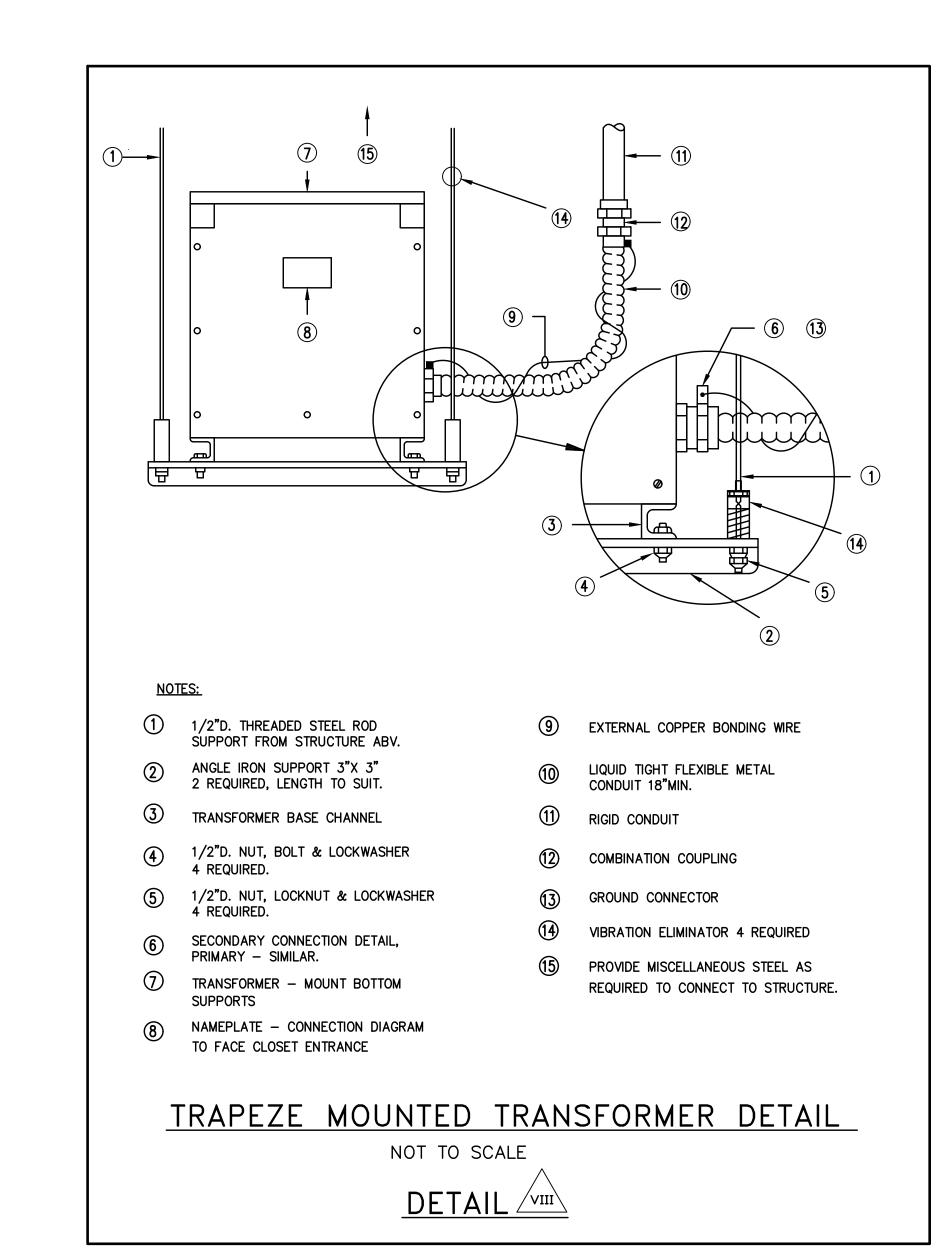


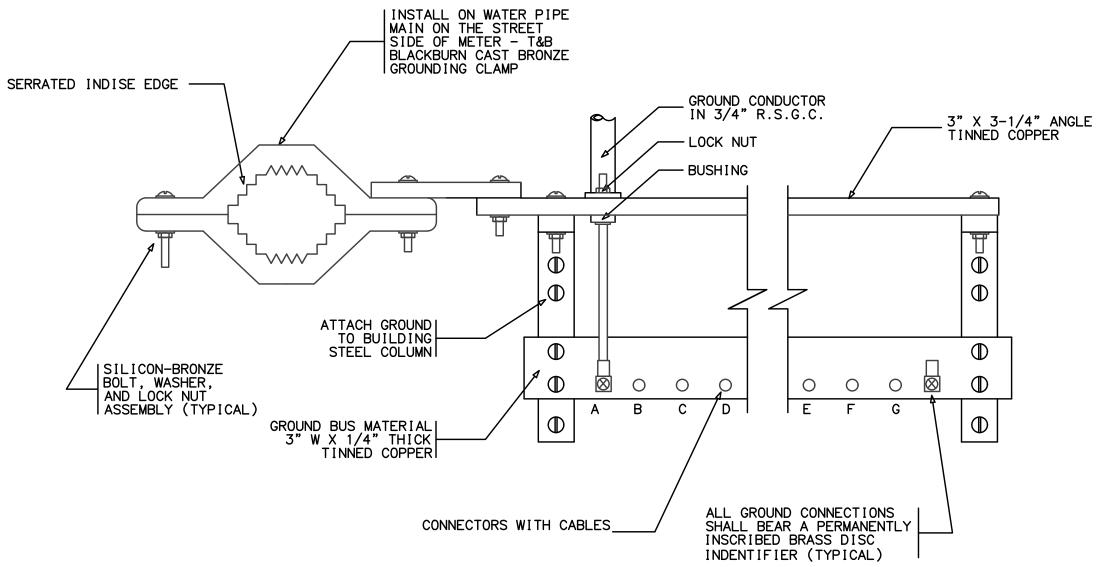
TYPICAL CONDUIT PENETRATION THRU FOUNDATION WALL



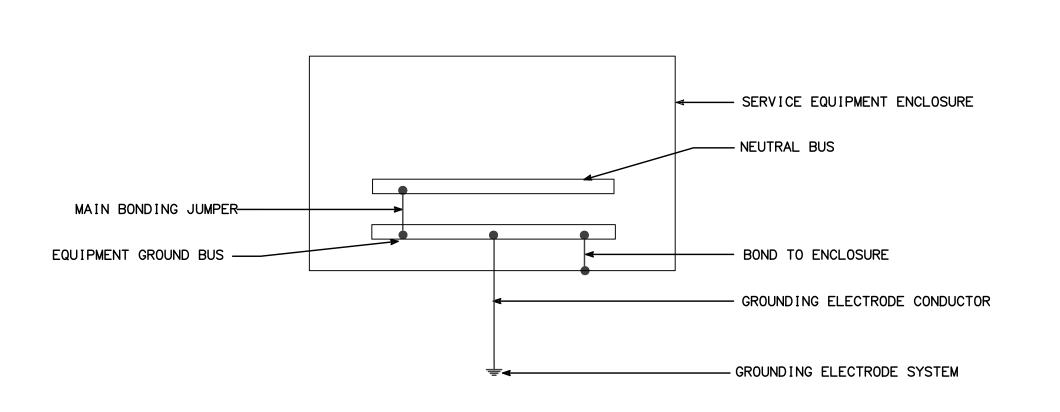
TYPICAL GROUNDING ROD WITH TEST WELL NOT TO SCALE DETAIL XXXIV

NOT TO SCALE





GROUNDING
WATER PIPE GROUND CONNECTIONS AND GROUND BUS



GROUNDING
SYSTEM WITH GROUND BUS AND NEUTRAL BUS

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NOT TO SCALE

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Project No. B17-DAYCARE

Gensler 1700 Broadway, Suite 400 New York, NY 10019

1. ALL CONDUIT AND WIRING

REQUIREMENTS REFER

TO DRAWINGS E-051.

FOR REFERENCE ONLY,

ENGINEERS DRAWING

C-600 FOR ADDITIONAL

SHALL BE INSTALLED

UNDERGROUND.

FOR CIRCUITING

REFER TO CIVIL

INFORMATION

(212) 492-1400 Phone (212) 492-1472 Fax Structural Engineer

Thornton Tomasetti 120 Broadway, 15th Floor New York, NY 10271 (917) 661-7800 Phone

(917) 661-7801 Fax

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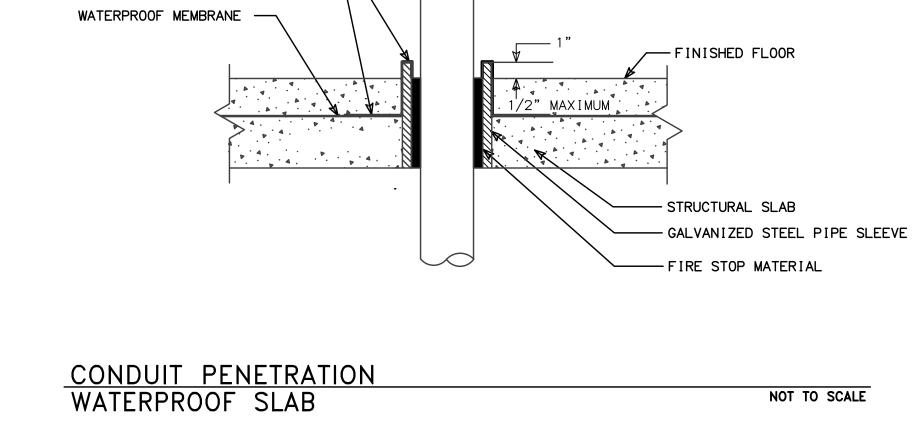
Discipline: Electrical Drawn By: Al ELECTRICAL DETAIL

Floor:

SHEET 1

Scale: NTS

E-500

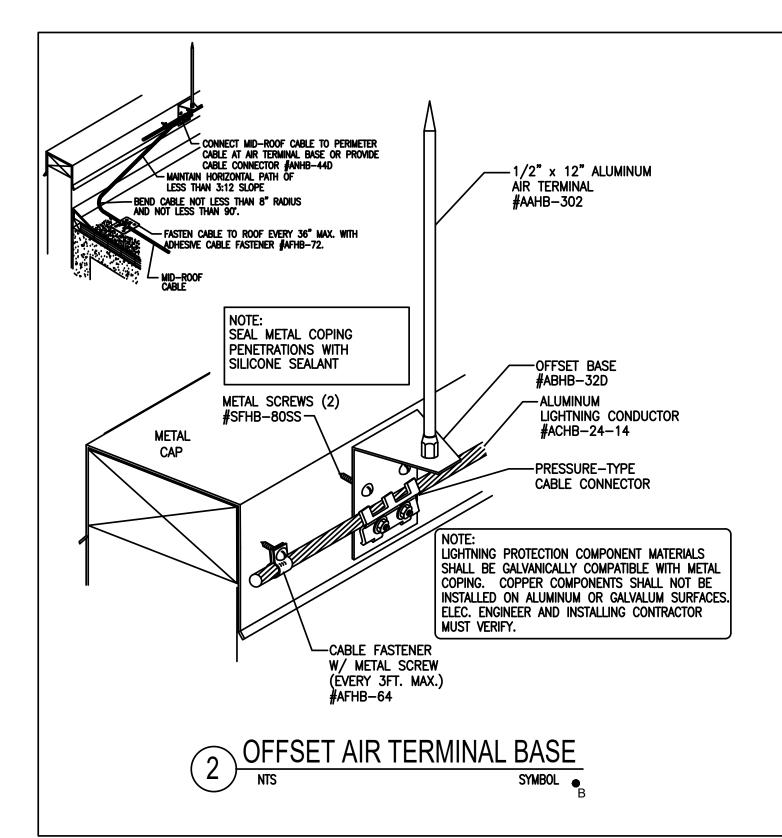


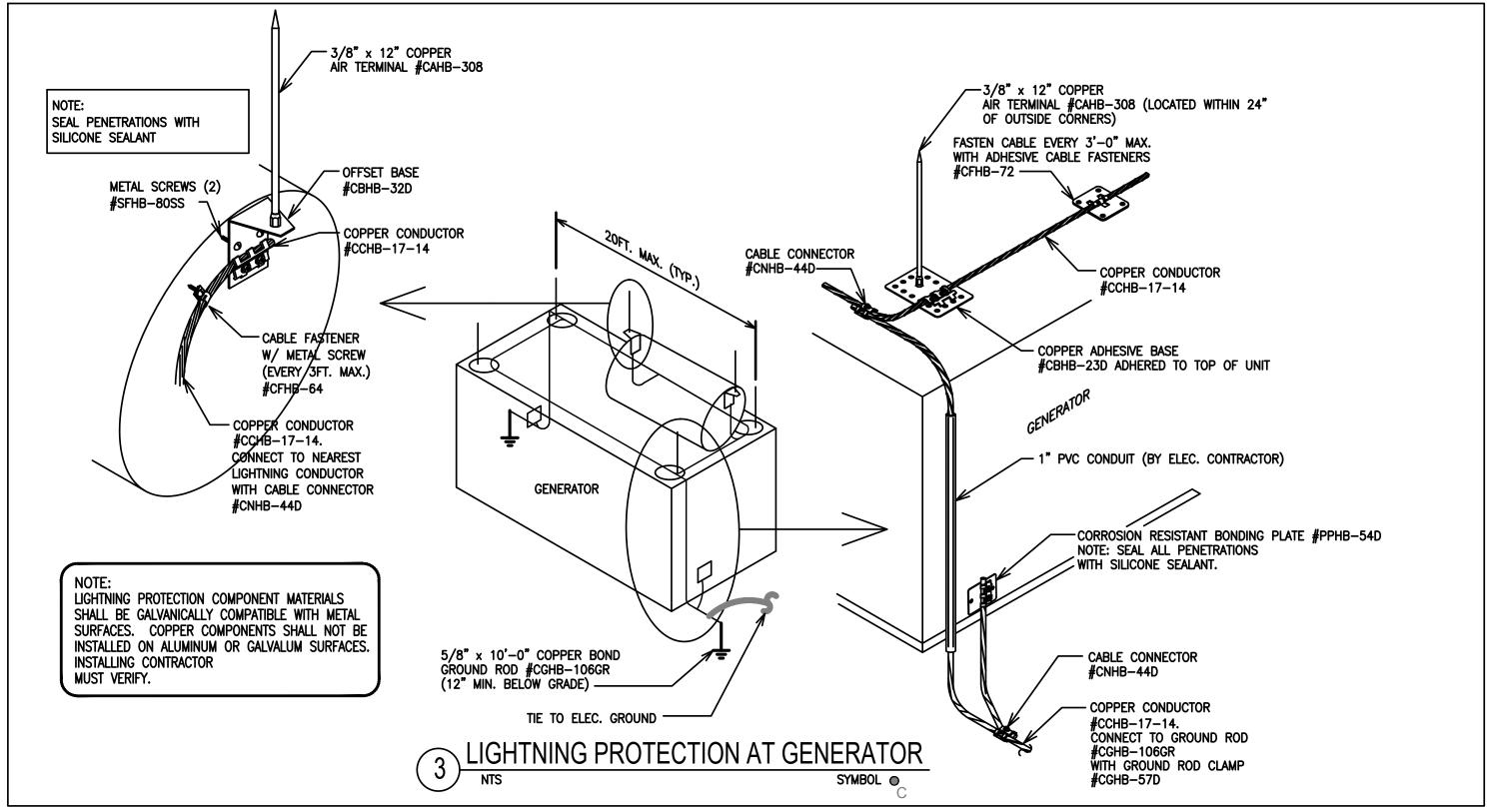
TYPICAL PIPE

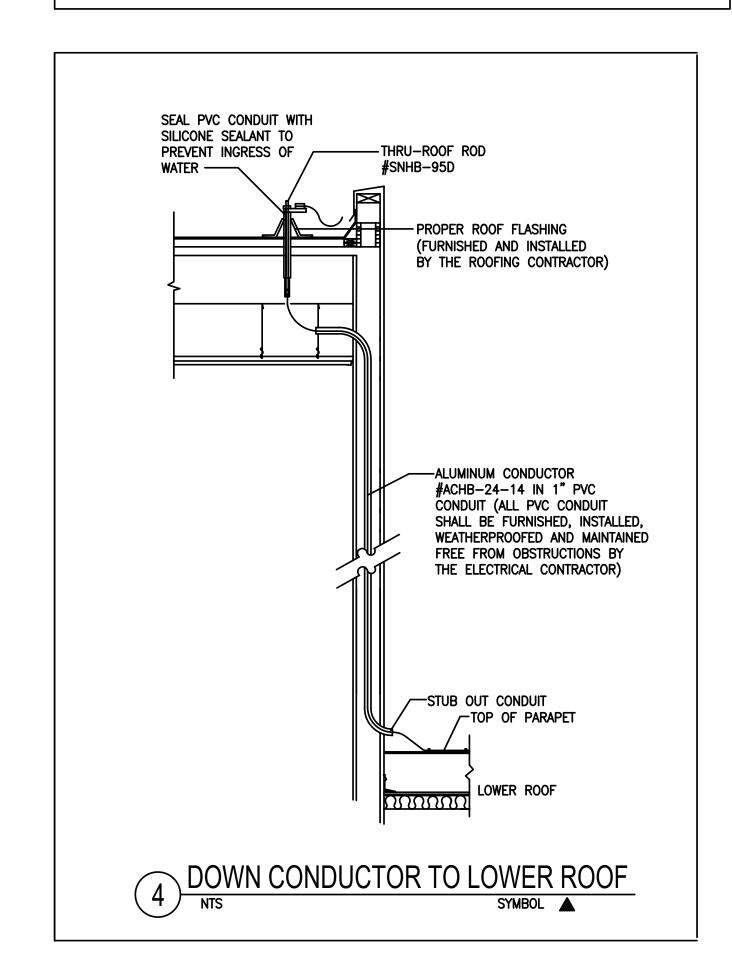
BOND CLAMP

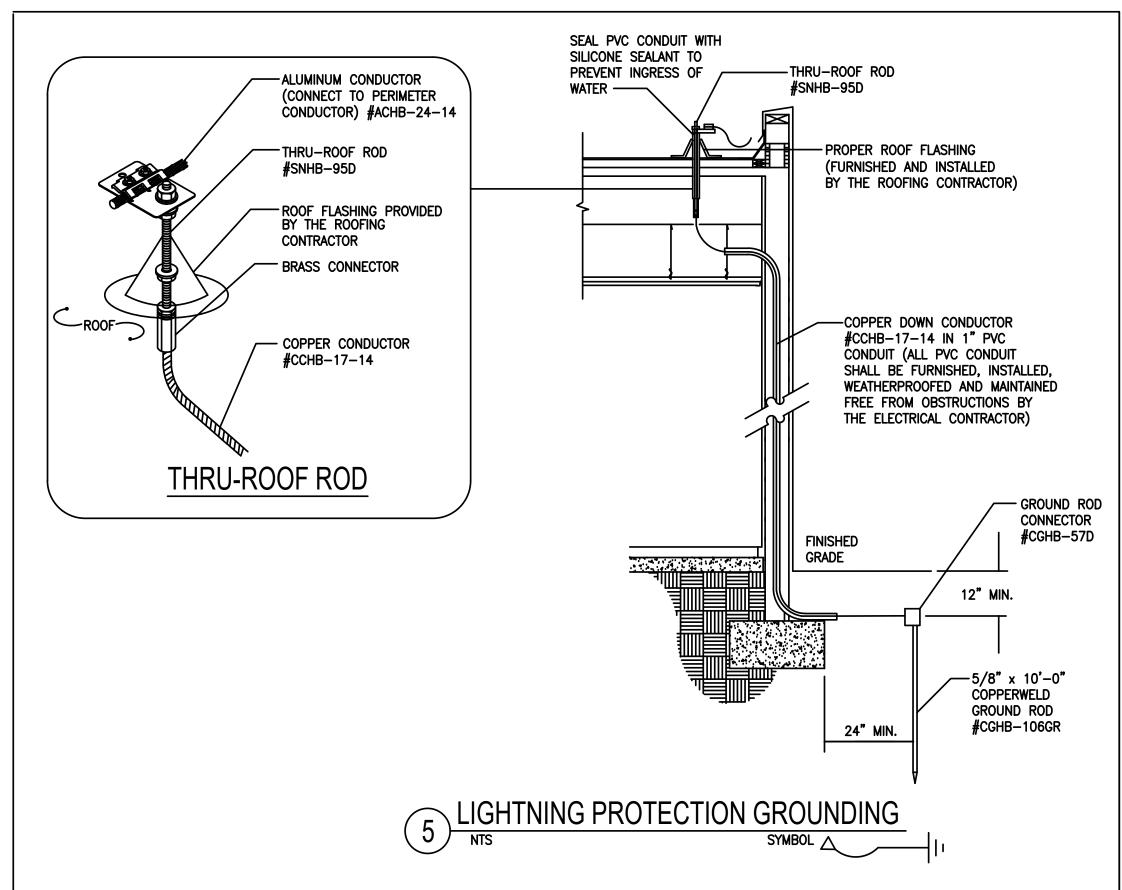
NOT TO SCALE /

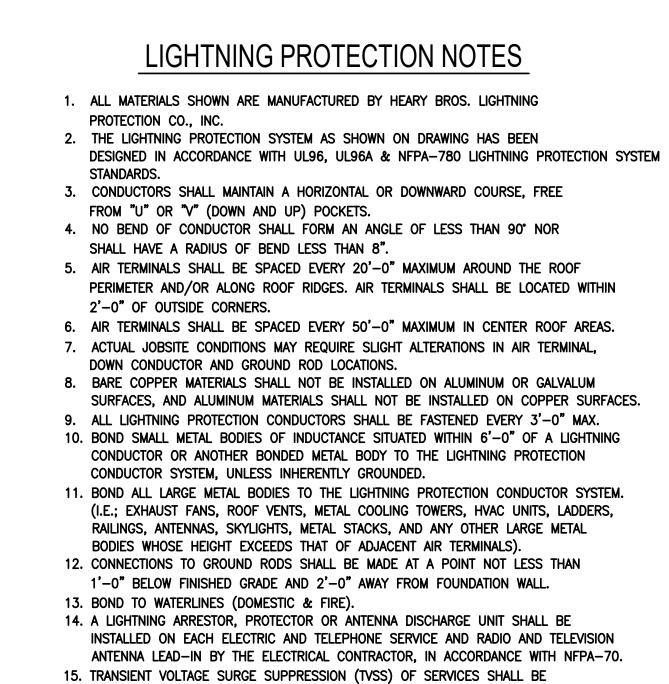
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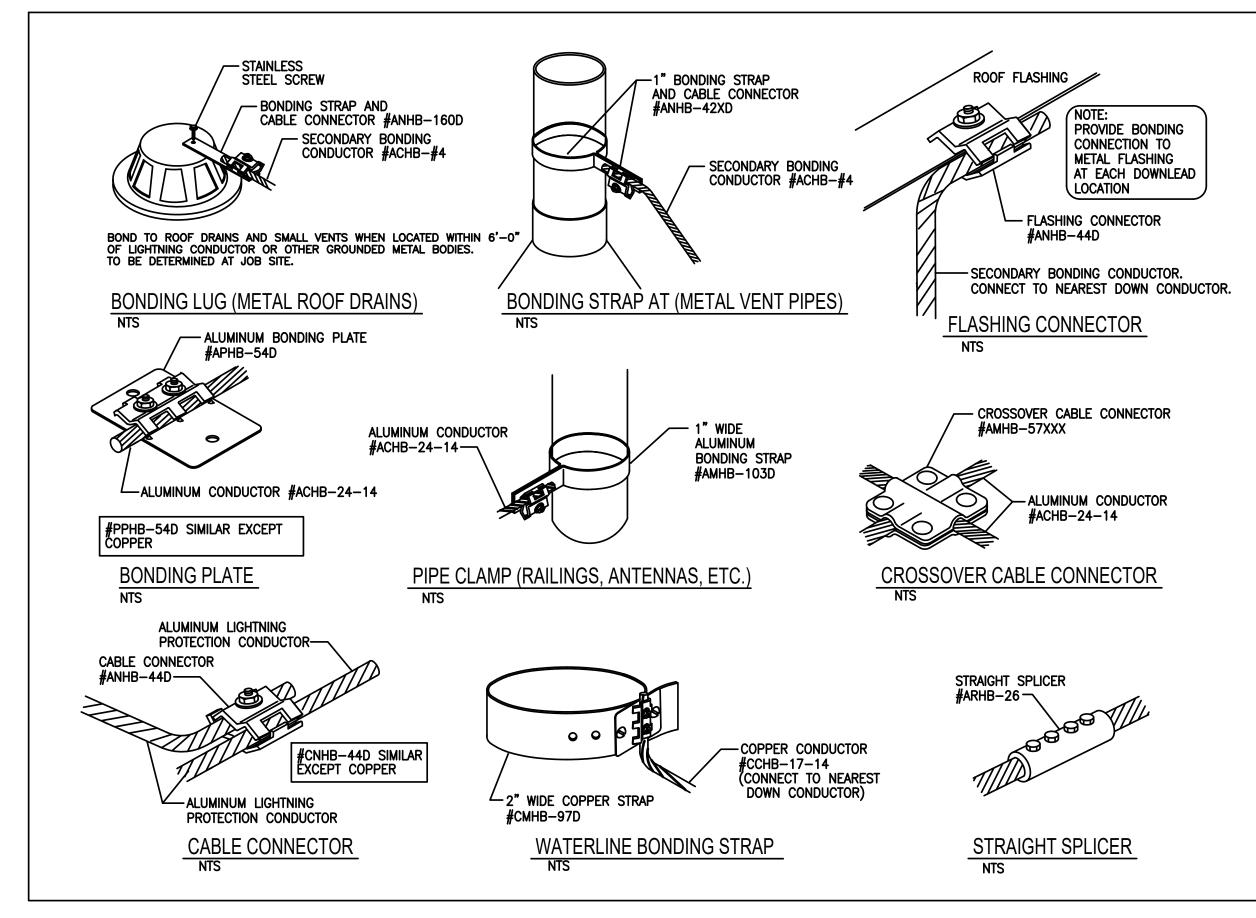


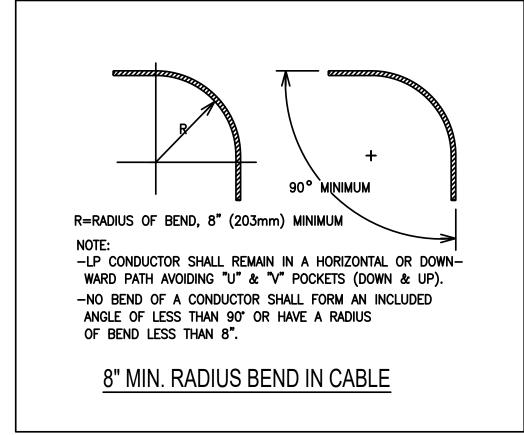
PROVIDED BY THE ELECTRICAL CONTRACTOR. (I.E. COMPUTERS, COPIERS,

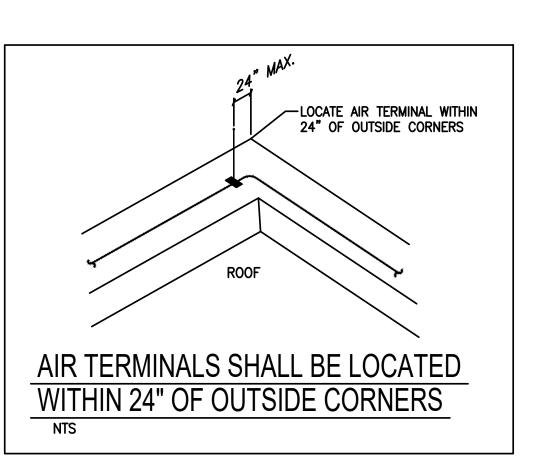
16. PROVIDE UL MASTER LABEL CERTIFICATION UPON COMPLETION OF INSTALLATION..

TELEPHONE, ETC.).

ALUMINUM LIGHTNING PROTECTION MAIN CONDUCTOR	ACHB-24-14
ALUMINUM LIGHTNING PROTECTION SECONDARY BONDING CABLE*	ACHB-#4
COPPER LIGHTNING PROTECTION DOWN CONDUCTOR	CCHB-17-14
BIMETAL CONNECTOR	MNHB-93
CABLE FASTENERS (FASTEN CABLE EVERY 3FT. MAX.)	AFHB-72, 66, 64, CFHB-72, 64
1/2" x 12" ALUMINUM AIR TERMINAL AND ADHESIVE BASE	AAHB-302, ABHB-23D
1/2" x 12" ALUMINUM AIR TERMINAL AND OFFSET BASE	AAHB-302, ABHB-32D
1/2" x 12" ALUMINUM AIR TERMINAL AND ADHESIVE BASE (AT ROOF TOP EQUIPMENT)	AAHB-302, ABHB-23D
3/8" x 12" COPPER AIR TERMINAL & ADHESIVE BASE / OFFSET BASE (GENERATOR)	CAHB-308, CBHB-23D, 32
THRU-ROOF ROD	SNHB-95D
*SECONDARY BONDING (USE SECONDARY BONDING CABLE #ACHB-#4):	
*FLASHING CONNECTOR	ANHB-44D
*METAL ROOF DRAIN / GUTTER CONNECTOR	ANHB-160D
*METAL VENT PIPE CONNECTOR	ANHB-42XD
ALUMINUM BONDING PLATE (AT ALUM. RTU & FANS)	APHB-54D
COPPER BONDING PLATE (TO TOP AND BASE OF STEEL AT EACH DOWNLEAD)	PPHB-54D
PIPE CLAMP (ANTENNAS, RAILINGS, ETC.)	AMHB-103D
BOND PLATE (LADDERS)	PPHB-54D
CABLE CONNECTOR	ANHB-44D, CNHB-44D
STRAIGHT SPLICER	ARHB-26, CRHB-26
CROSSOVER CABLE CONNECTOR	CMHB-57XXX
WATERLINE CONNECTOR (FIRE WATER & DOMESTIC WATER)	CMHB-97D
5/8" x 10'-0" COPPERWELD GROUND ROD AND CONNECTOR	CGHB-106GR, CGHB-570







FOR LIGHTNING PROTECTION PLAN

REFER TO DRAWING E-121.

DETAIL SHEET 2

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FACILITIES MANAGEMENT

Campus Expansion Child

899 Old Saw Mill River Road

REGENERON REAL ESTATE &

777 Old Saw Mill River Road

Tarrytown, NY 10591-6707

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Building #17

www.regeneron.com

Day-care Center

F: 914.847.7991

Mount Pleasant, NY 10591 Project No. B17-DAYCARE Gensler

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1 06.20.2022 100% CONSTRUCTION DOCUMENTS 07.01.2022 100% CONSTRUCTION DOCUMENTS-1

Plot Date: 07.01.2022

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Professional Seal and Signature

Vendor Name: COSENTINI Vendor Project No.: 210104 Drawn By: Al Discipline: Electrical **ELECTRICAL**

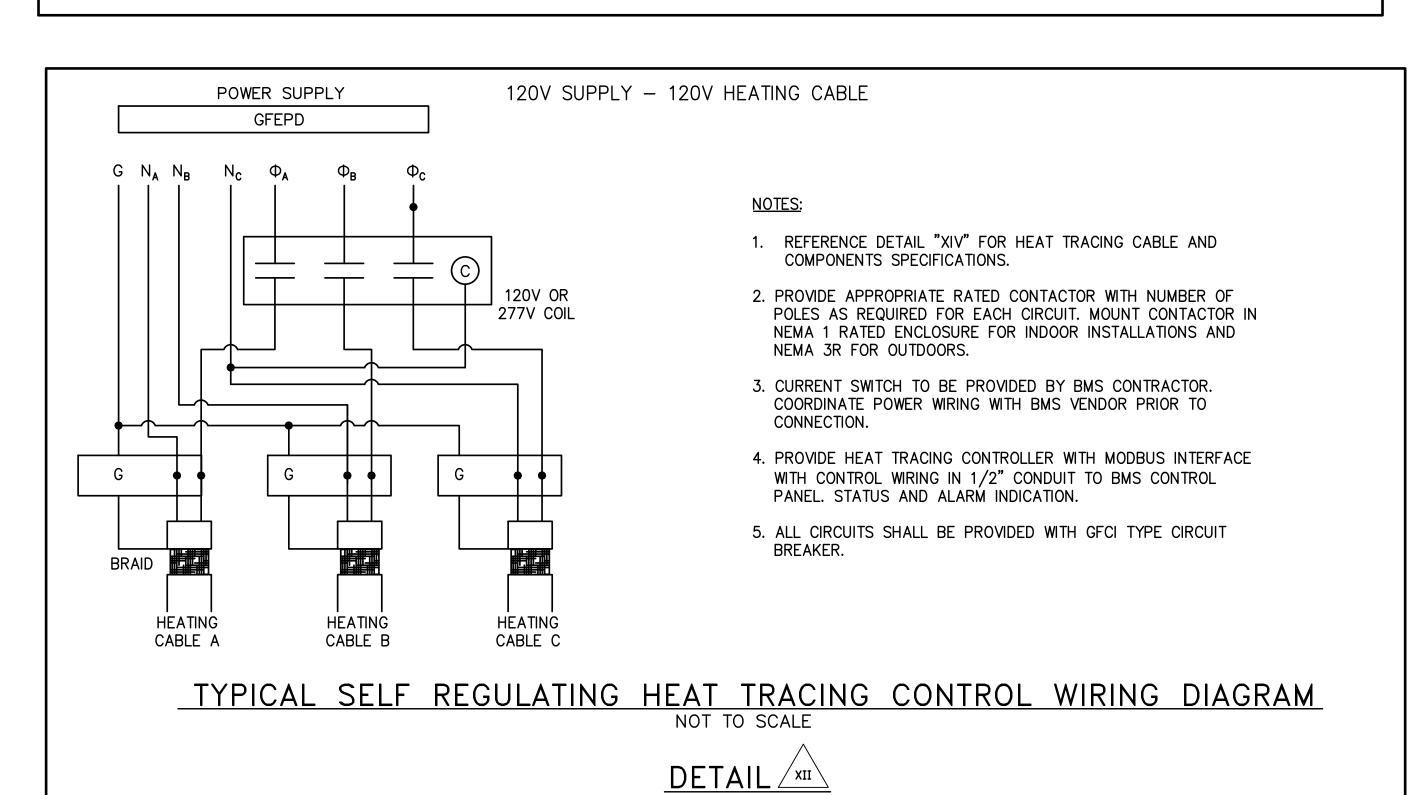
Scale: NTS Floor:

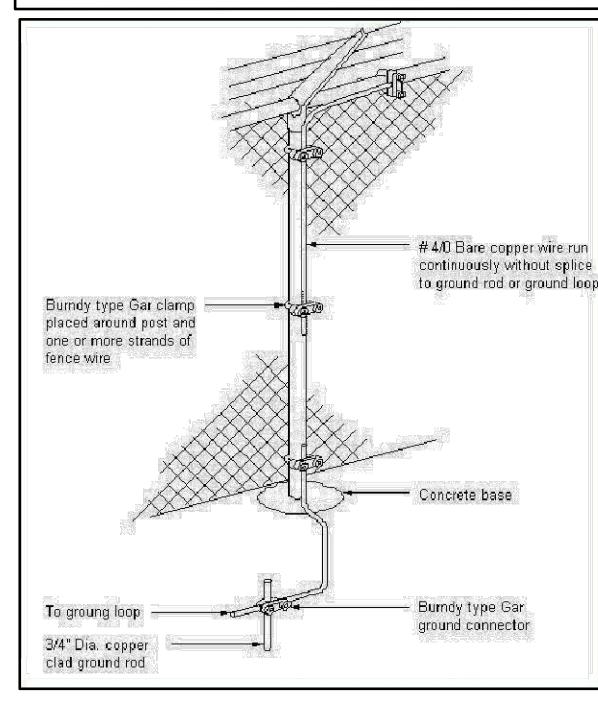
ELECTRIC	CIRCUIT	RATED	MAXIMUM SAFE	MAXIMUM	IDENTIFIC	CATION OF APP	PROVED COMPO	NENTS
OUTPUT (AT 50°F)	BREAKER SIZE (STARTED AT 50°F)	VOLTAGE	TEMPERATURE	SAFE LENGTH	HEATER STRIP	END SEAL	SPLICE OR TEE KIT	POWER CON- NECTION KIT
WATTS/FT	AMPS/FT	VOLTS	۴	FEET	RAYCHEM "XL-TRACE" CATALOG NUMBERS			MBERS
5	.07	120	150	250	5XL1-CR	FTC-E	FTC-HST	FTC-P
8	.10	120	150	190	8XL1-CR	FTC-E	FTC-HST	FTC-P

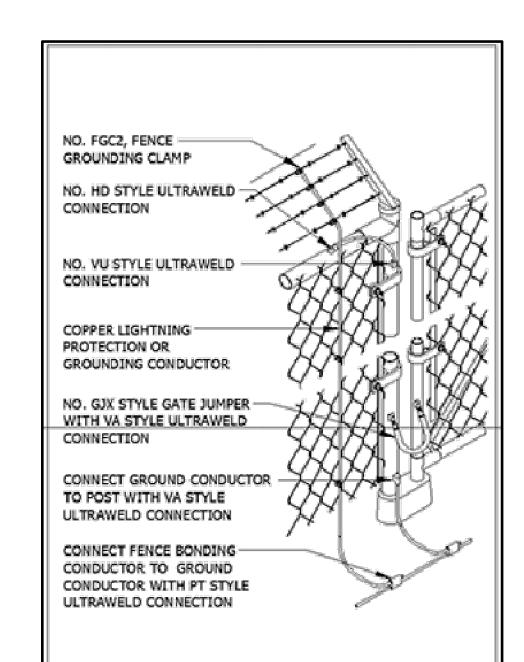
- b) INSTALL HEATER STRIP AS A SINGLE RUN (OR MULTIPLE PARALLEL RUNS WHERE CABLE FOOTAGE SO REQUIRES) ALONG WATER PIPING BEFORE INSULATION IS APPLIED TO SAME.
- c) FASTEN HEATER STRIP TO PIPING WITH GLASS ADHESIVE TAPE (RAYCHEM CAT. NO. "GT-66") APPLIED AT INTERVALS NOT EXCEEDING 1' ON CENTERS AND IN ALL CASES AS REQUIRED TO MAINTAIN THE HEATER STRIP IN CONTINUOUS CONTACT WITH THE METAL OF THE WATER PIPING.
- d) DO NOT CONNECT THE BUS WIRES TOGETHER; XL-TRACE IS A PARALLEL CIRCUITED HEATER STRIP.
- FURNISH AND INSTALL ON THE OUTLET BOX FROM WHICH THE HEATER IS SUPPLIED, A 120 VOLT, 22 AMP, SINGLE POLE, DOUBLE THROW, 25-225°F, AMBIENT TYPE THERMOSTAT (RAYCHEM CAT. NO. "AMC-1A") IN NEMA TYPE 4 WATERTIGHT ENCLOSURE.
- CONNECT INCOMING CIRCUIT THROUGH THERMOSTAT TO HEATER STRIP.
- g) UTILIZE 1/2" FLEXIBLE METALLIC CONDUIT TO PROTECT WIRE BETWEEN THERMOSTAT AND POINT WHERE IT CONNECTS TO HEATER STRIP.
- h) WHERE THE TEMPERATURE OF THE FLUID IN A PIPE WILL EXCEED 150°F, SUBSTITUTE RAYCHEM "5XTV1—CT" STRIP OR "10XTV1—CT" STRIP FOR 5 AND 8 WATT APPLICATIONS RESPECTIVELY, (AND ACCESSORIES) FOR HEATER STRIP SPECIFIED. MODIFY CIRCUITRY IF REQUIRED.
- PROVIDE AUXILIARY CONTACT AND 2#14 CONTROL WIRING IN 1/2" C TO BMS PANEL. COORDINATE WITH MECHANICAL TRADE.

A SEPARATE PIPE HEATER STRIP COMPLETE WITH THERMOSTAT AND ALL APPURTENANCES, IS REQUIRED IN CONJUNC-TION WITH EACH SYMBOL FOR WHICH A REFERENCE TO THESE SPECIFICATIONS IS MADE. MULTIPLE CABLES MAY BE ATTACHED TO ONE THERMOSTAT, PROVIDED THAT THE TOTAL LENGTH OF CABLES DOESN'T EXCEED MAXIMUM

SPECIFICATION NOTES FOR ELECTRIC PIPE TRACING - DETAIL





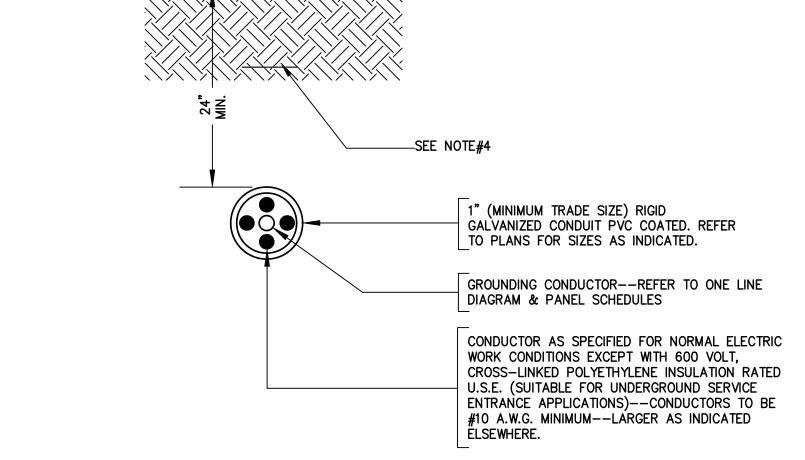


GENERATOR FENCE & GATE BONDING DETAIL

DETAIL /x1

GENERATOR FENCE & GATE BONDING DETAIL

<u>DETAIL /x\</u>



. REFER TO SPECIFICATIONS TO DETERMINE IF EXCAVATION AND BACKFILL IS INCLUDED AS PART OF ELECTRIC WORK.

- 2. NUMBER OF CONDUCTORS SHOWN IS TYPICAL ONLY. UNLESS OTHERWISE NOTED, THE GROUNDING CONDUCTOR IS NOT INCLUDED IN THE QUANTITY SHOWN ON THE PLAN AND/OR RISER DIAGRAM. 3. WHERE CONDUIT ENTERS A BUILDING, SEAL END WITHIN BUILDING WITH A WATERTIGHT SEALANT
- MANUFACTURED SPECIFICALLY FOR THAT PURPOSE. 4. PROVIDE WARNING LABEL 12" BELOW GRADE CAUTION BURIED ELECTRICAL LINE BELOW

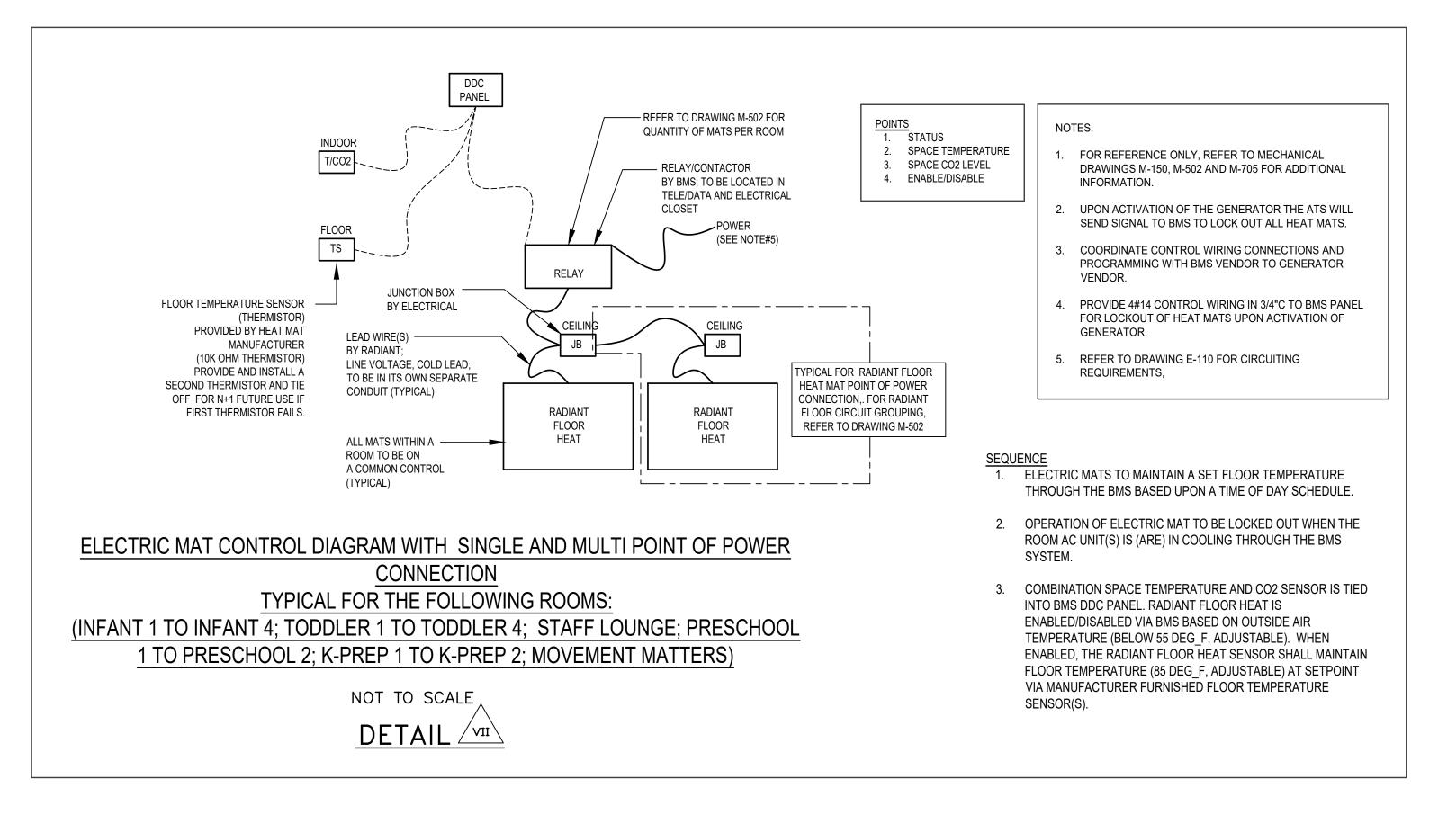
UNDERGROUND-LINE WARNING TAPE SHALL

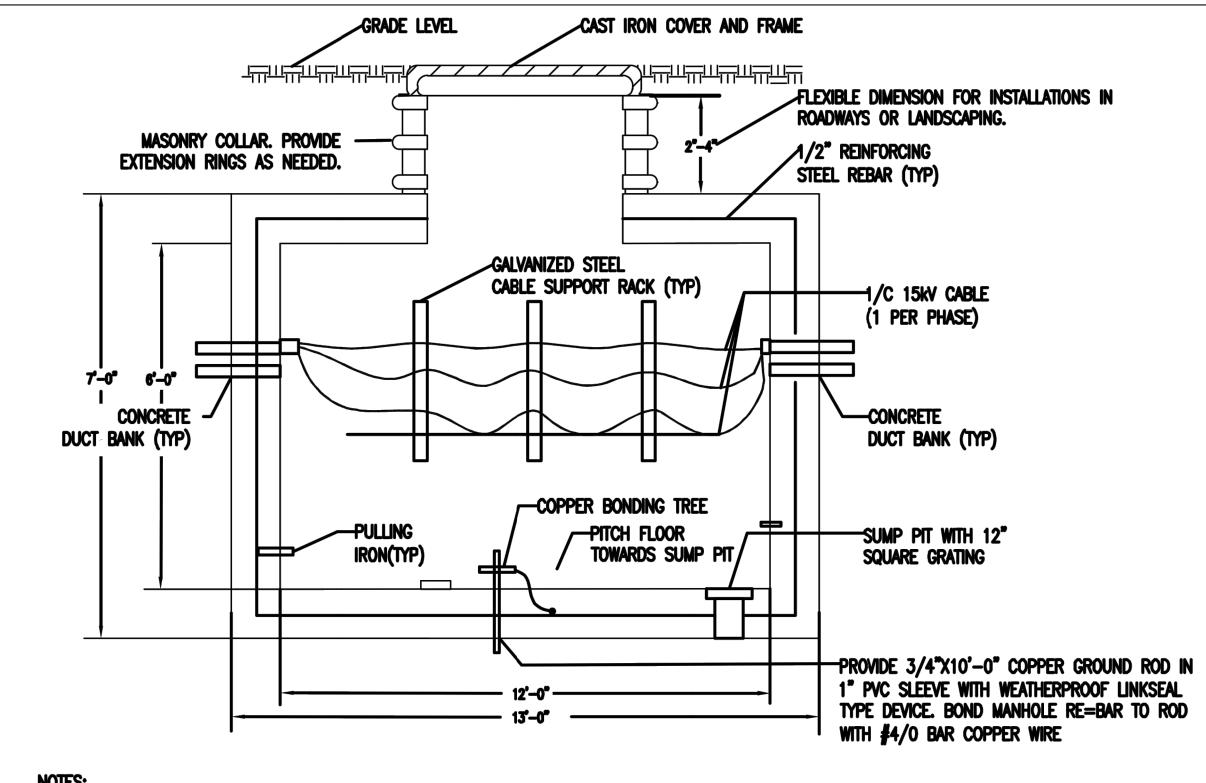
COMPLY WITH SPECIFICATION 26 05 53.

DETAIL OF INDIVIDUAL SECONDARY SITE LIGHT AND POWER RUN--UNDERGROUND IN CONDUIT NOT TO SCALE

DETAIL 1

DETAIL /IX



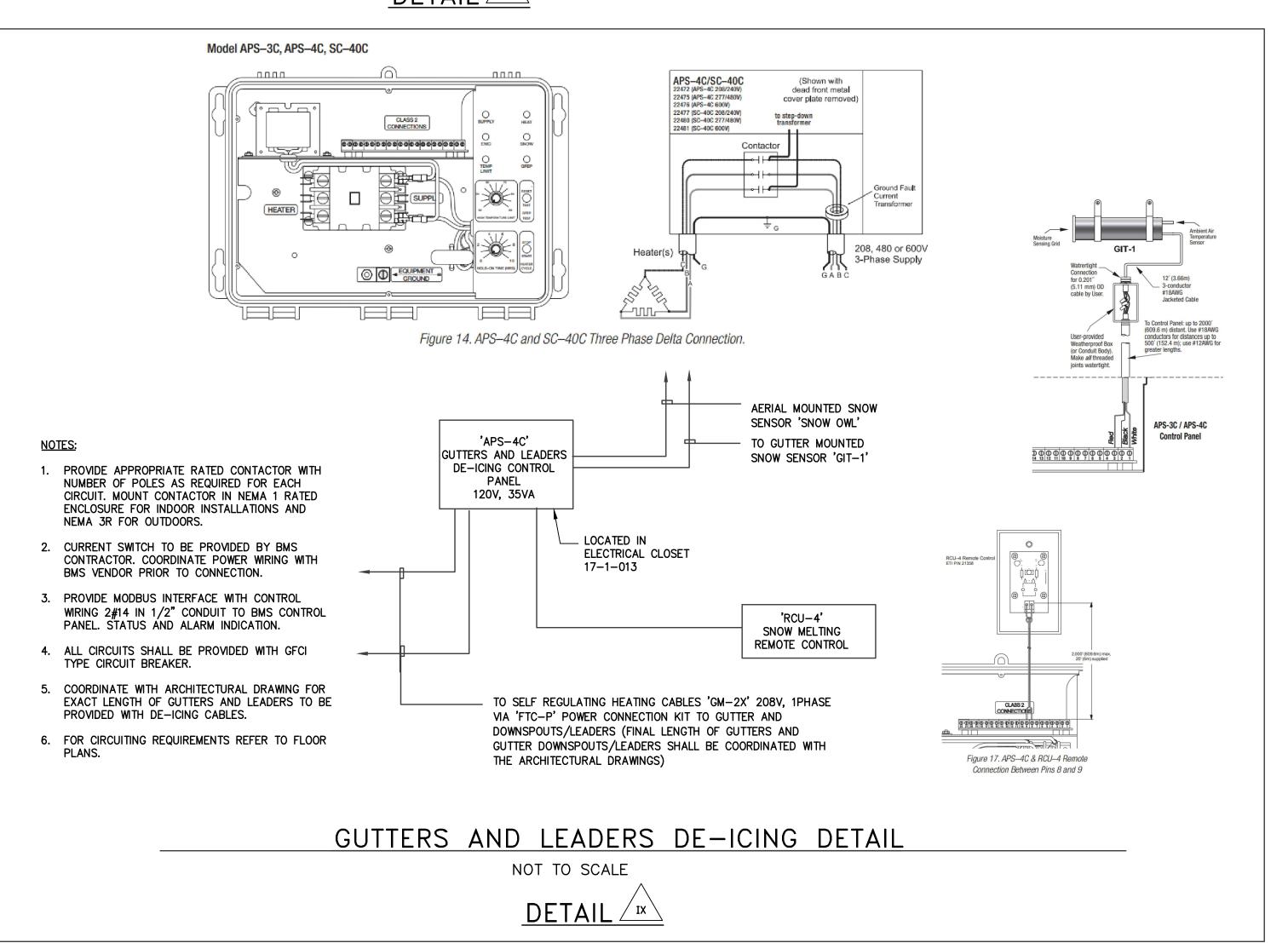


NOTES:

- I. DIMENSIONS SHOWN ARE MINIMUM REQUIREMENTS, COORDINATE EXACT DIMENSIONS WITH REQUIREMENTS IN FIELD AND MANHOLE MANUFACTURER.
- . MANHOLE SHALL BE COMPLETELY WATER RESISTANT. ALL OPENING AND PENETRATIONS SHALL BE PROVIDE WITH PROPER SEALS TO PREVENT MOISTURE AND WATER PENETRATION WITHIN MANHOLE. PROVIDE WATER PROOFING COMPOUND ON THE SIDE WALLS, EXTERIOR SIDE OF THE MANHOLE.
- 3. THIS CONTRACTOR SHALL COORDINATE CONDUIT/WIRING TO MANHOLE WITH FACILITY FOR FINAL CONNECTION.
- 4. PROVIDE ALL REQUIRED SUPPORT AND MAKE NECESSARY CONNECTION AND TERMINATION TO ENERGIZE FEEDER TO DAY CARE CENTER.

TYPICAL MANHOLE DETAIL SECTION VIEW (FOR REFERENCE ONLY, PROVIDED BY OTHERS)

NOT TO SCALE DETAIL / IX



TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 ENERGY CONSERVATION CODE OF NYS

This plan is approved only for work indicated on the application specification sheet. All other matters shown are not to be relied upon, or to be considered as either being approved or in accordance with applicable codes.

Alterations or additions to this engineering document by an unlicensed person is a violation of Chapter 1 Title VIII, Article 145 § 7209.2 of the New York State Education Law.

REGENERON

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Project No. B17-DAYCARE

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(212) 492-1472 Fax

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MEP / IT / Security Engineer

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Cosentini Associates 498 Seventh Avenue New York, NY 10018 (212) 615-3600 Phone (212) 615-3700 Fax

Civil Engineer

120 Bedford Road Armonk, NY 10504 (914) 273-5225 Phone (914) 273-2102 Fax

Landscape Architect

21 Penn Plaza, 360 West 31st Street, 8th Floor New York, NY 10001 (212) 479-5400 Phone (212) 479-5444 Fax

Key Plan

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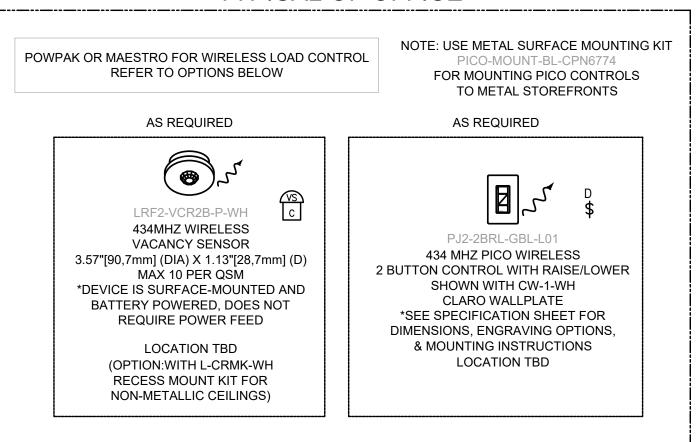
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Vendor Name: COSENTINI Vendor Project No.: 210104 Drawn By: Al Discipline: Electrical **ELECTRICAL**

Scale: NTS

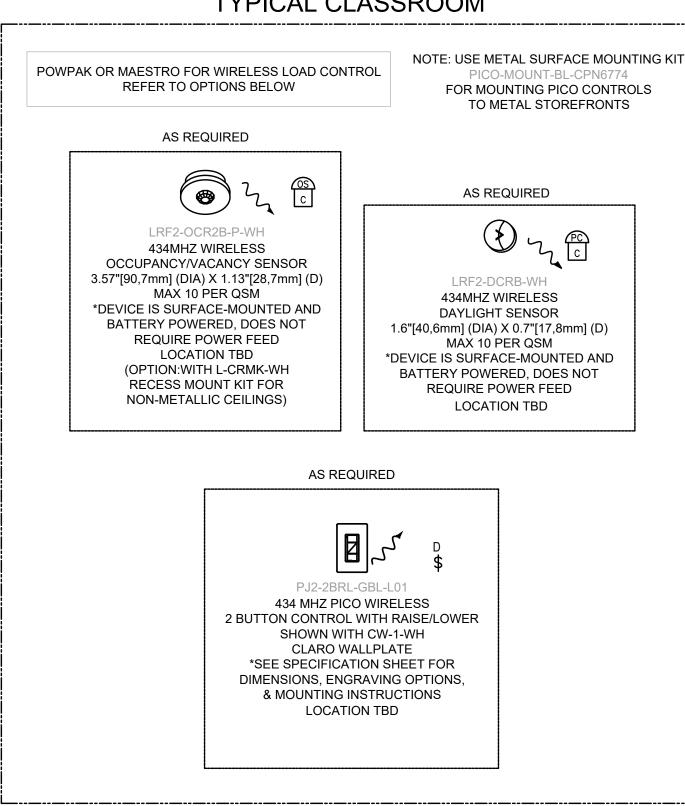
E-502

DETAIL SHEET 3



L.....

TYPICAL CLASSROOM



TYPICAL OF MEP SPACES NOTE: USE METAL SURFACE MOUNTING KIT POWPAK OR MAESTRO FOR WIRELESS LOAD CONTROL REFER TO OPTIONS BELOW FOR MOUNTING PICO CONTROLS TO METAL STOREFRONTS AS REQUIRED AS REQUIRED LRF2-OCR2B-P-WH 434MHZ WIRELESS PJ2-2B-GBL-L01 OCCUPANCY/VACANCY SENSOR 434 MHZ PICO WIRELESS 3.57"[90,7mm] (DIA) X 1.13"[28,7mm] (D) 2 BUTTON CONTROL

SHOWN WITH CW-1-WH

CLARO WALLPLATE

*SEE SPECIFICATION SHEET FOR

DIMENSIONS, ENGRAVING OPTIONS,

& MOUNTING INSTRUCTIONS

LOCATION TBD

MAX 10 PER QSM

BATTERY POWERED, DOES NOT

REQUIRE POWER FEED

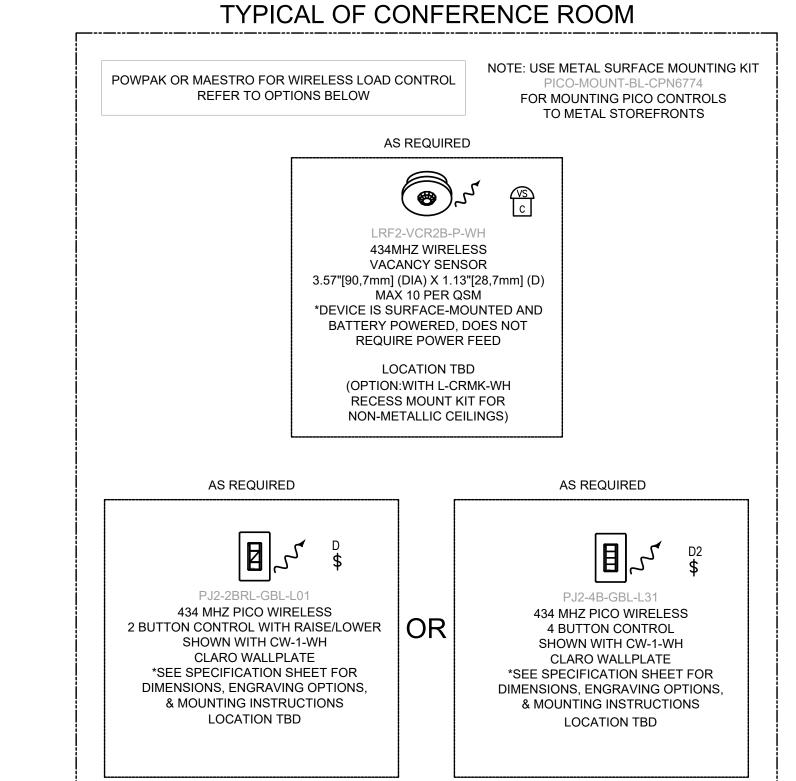
LOCATION TBD

(OPTION:WITH L-CRMK-WH

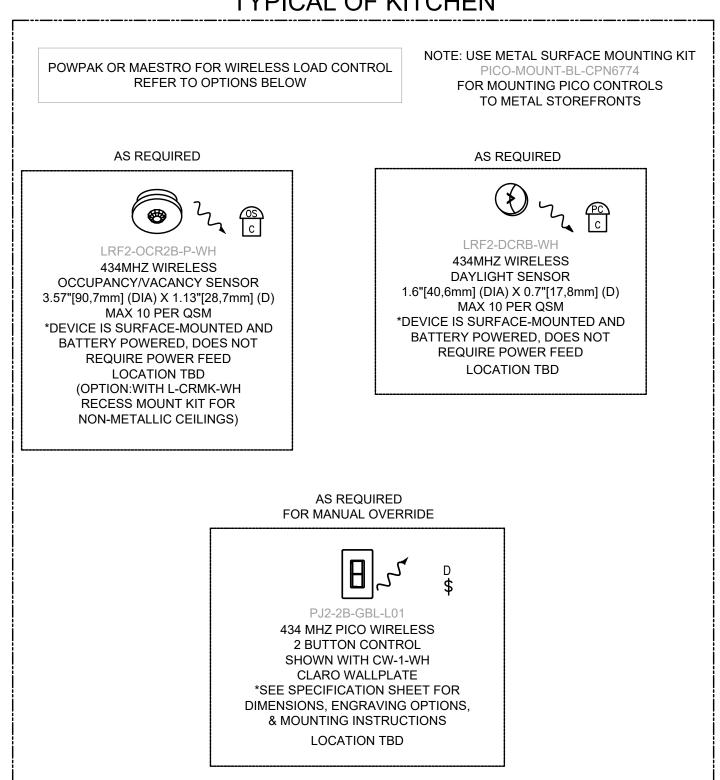
RECESS MOUNT KIT FOR

NON-METALLIC CEILINGS)

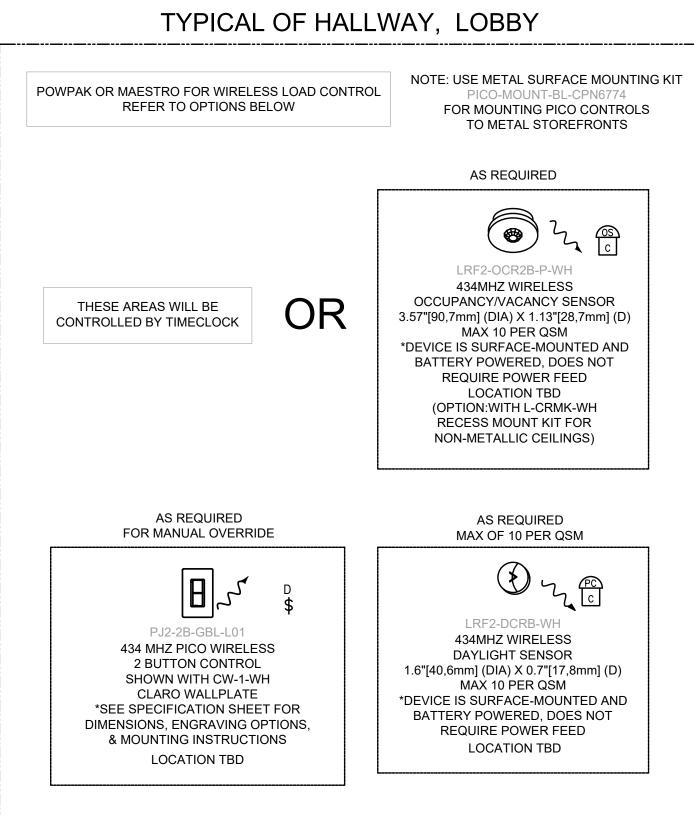
DEVICE IS SURFACE-MOUNTED AND

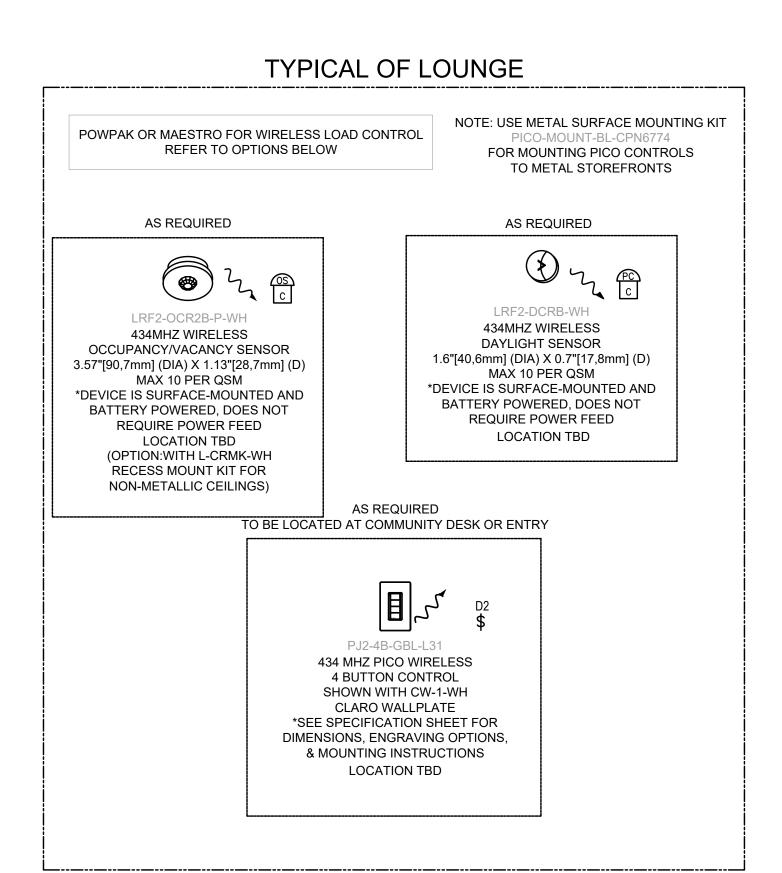


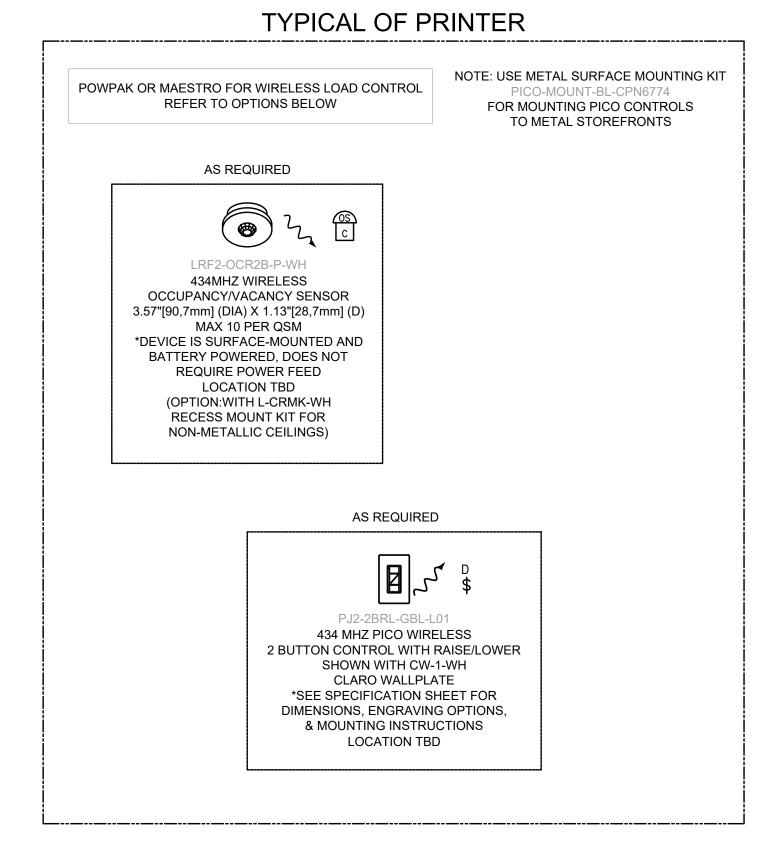
TYPICAL OF KITCHEN

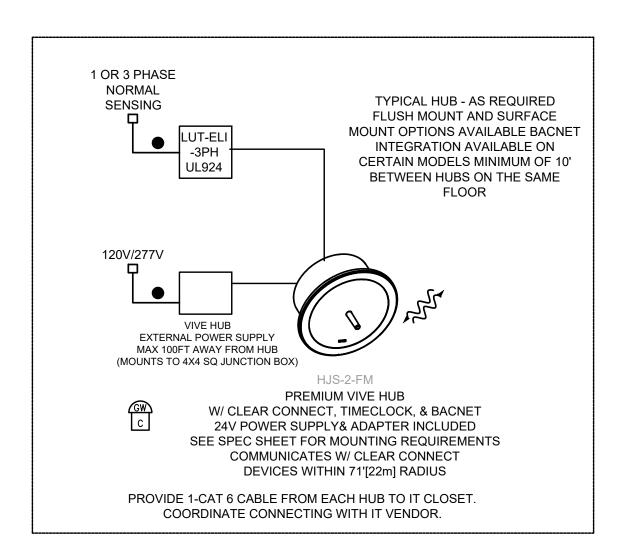












TYPICAL SENSORS & REMOTE CONTROLS CAN BE A MAX OF 30' TO LOAD DEVICES -

TYPICAL LOAD DEVICES CAN BE A MAX OF 71' FROM VIVE HUB AND LOCATED

TYPICAL WALLBOX LOAD CONTROLS CAN BE A MAX OF 71' FROM VIVE HUB AND

UPON LOSS OF NORMAL POWER THE LUT-ELI-UL924 RELAY SHALL DISABLE ALL

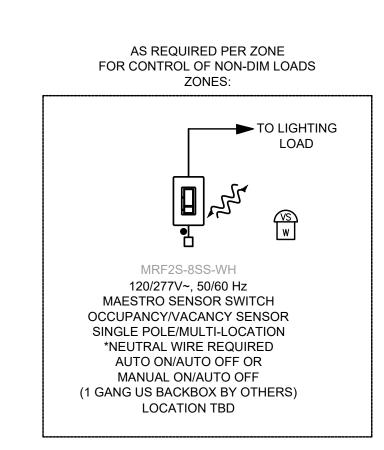
DIMMING FUNCTION UNTIL NORMAL POWER IS RESTORED, COORDINATE

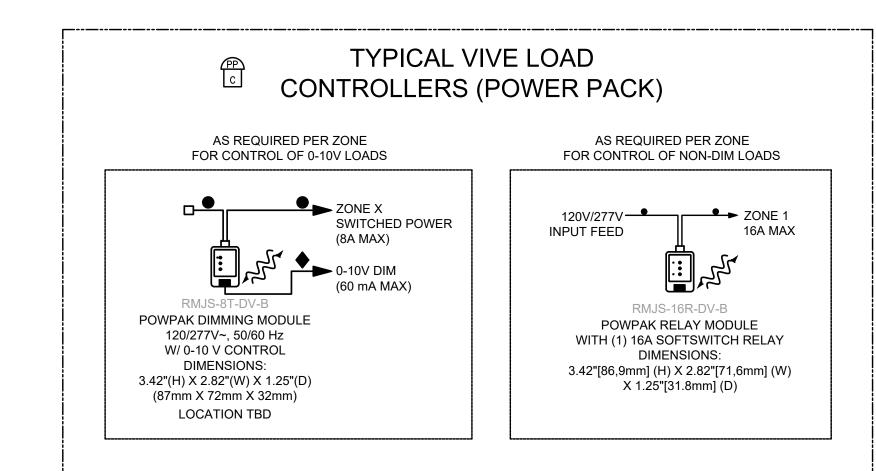
PROGRAMMING AND TESTING WITH THE FACILITY MANAGEMENT,

MAX OF 71' FROM VIVE HUB AND LOCATED ON THE SAME FLOOR

ON SAME FLOOR

LOCATED ON SAME FLOOR





WIRING LEGEND: ■ INPUT POWER (NORMAL)

THE USER'S DISCRETION.

2 #12AWG (4 mm²)

• 0-10V SIGNAL: 2 #18AWG (1.0 mm²)

2-WAY RF COMMUNICATION

1-WAY RF COMMUNICATION

E CAT5E OR BETTER CABLE FOR LUTRON CONNECTORS (TO BE PROVIDED BY OTHERS). 328 ft (100 m) MAXIMUM RUN.

CONCEPT DRAWING NOTES: CONTROL SYSTEM DRAWING IS PROVIDED FOR CONCEPTUAL PURPOSES ONLY AND IS NOT INTENDED FOR CONSTRUCTION. EXACT EQUIPMENT REQUIREMENTS. INCLUDING LOCATIONS AND QUANTITIES, SHOULD BE VERIFIED IN ACCORDANCE WITH THE MOST UP-TO-DATE LIGHTING/ELECTRICAL REFLECTED CEILING PLANS. LIGHTING FIXTURE SCHEDULES. PANEL SCHEDULES, CONTROL INTENT AND SPECIFICATIONS. SHADE EQUIPMENT SHOULD BE VERIFIED IN ACCORDANCE WITH ARCHITECTURAL PLANS, SPECIFICATIONS AND WINDOW SCHEDULES/DETAILS.

LED DIMMING REQUIRES AN EXACT MATCH BETWEEN THE LED ARRAY, DRIVER AND CONTROL LUTRON CANNOT GUARANTEE COMPATIBILITY OR PERFORMANCE WITHOUT TESTING THIS TO CONFIRM WHAT PRODUCTS LUTRON HAS AVAILABLE OR WHAT INTERFACES MAY BE REQUIRED, CALL 1-877-DIM-LED8 OR CHECK LUTRON'S PRODUCT COMPATIBILITY MATRIX ON-LINE AT WWW.LUTRON.COM/LED. TO REQUEST THE TESTING OF AN LED PRODUCT BY LUTRON MANUFACTURERS CAN FILL OUT AN LED EVALUATION REQUEST FORM ON-LINE AT WWW.LUTRON.COM/LED OR CONTACT LEDS@LUTRON.COM. LUTRON CAN GUARANTEE COMPATIBILITY AND PERFORMANCE OF LUTRON HI-LUME A-SERIES LED DRIVERS USED WITH APPROPRIATE LUTRON CONTROLS. THE HI-LUME A-SERIES LED DRIVER CAN BE USED ON PRODUCTS UNDER 40 WATTS WITH SUITABLE MOUNTING LOCATIONS. PLEASE REFER TO THE SPECIFICATION SUBMITTAL SHEET FOR FURTHER INFORMATION. IF USING UNTESTED, NON-LUTRON LED DRIVERS REQUIRING 0-10V CONTROL, PERFORMANCE AND COMPATIBILITY CANNOT BE GUARANTEED BY LUTRON. PRODUCTS FOLLOWING THE IEC STANDARD 60929 ARE MORE LIKELY TO PROVIDE ACCEPTABLE PERFORMANCE RESULTS. DETERMINATION OF RESULT ACCEPTABILITY IS UP TO THE USER'S DISCRETION. IF USING UNTESTED, NON-LUTRON LED DRIVERS REQUIRING PHASE CONTROL. PERFORMANCE AND COMPATIBILITY CANNOT BE GUARANTEED BY LUTRON. A-SERIES OR ELV PRODUCTS PROVIDING HIGH END AND LOW END TRIM ADJUSTMENTS ARE MORE LIKELY TO PROVIDE ACCEPTABLE PERFORMANCE RESULTS. DETERMINATION OF RESULT ACCEPTABILITY IS UP TO

LIGHTING CONTROL NOTES:

- 1. PROVIDE ALL COMPONENTS AND ACCESSORIES REQUIRED FOR A FULLY FUNCTIONING LIGHTING CONTROLS AS INDICATED.
- 2. ELECTRICAL CONTRACTOR AND GENERAL CONTRACTOR TO PERFORM EMERGENCY LIGHTING TEST AFTER INSTALLATION WITNESSED BY OWNER REPRESENTATIVE.
- 2. ELECTRICAL CONTRACTOR SHALL OBTAIN THE SERVICES OF THE LIGHTING CONTROL VENDOR TO COMMISSION THE CONTROL SYSTEM IN THE PRESENCE OF THE OWNER REPRESENTATIVE. CONTRACTOR TO PROVIDE DETAIL REPORT UPON COMPLETION OF TESTING OF ALL DEVICES.
- 3. ALL OFFICES, CONFERENCE ROOMS, & LOUNGES SHALL BE CONTROLLED BY VACANCY SENSORS.
- 4. OCCUPANCY SENSORS: 4.1. CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE
- APPROPRIATE OCCUPANCY & VACANCY SENSOR DEVICE FOR THE GIVEN VOLTAGE AND MAXIMUM/MINIMUM LOAD CONDITION.
- 4.2. EXACT LOCATION OF SENSOR SHALL BE COORDINATED BY THE CONTRACTOR FOR OPTIMUM COVERAGE. CONTRACTOR SHALL INSTALL FIELD-OF-VIEW TEMPLATES. AS REQUIRED. TO MASK THE VIEWING LENS TO PREVENT FALSE TRIGGERING FOR AUTO-ON OPERATION.
- 4.3. FINAL LOCATION OF ALL WALL OR CEILING MOUNTED SENSORS SHALL BE COORDINATED WITH MANUFACTURER INSTALLATION DRAWING AND APPROVED SHOP DRAWINGS.
- 4.4. ELECTRICAL CONTRACTOR TO COORDINATE INSTALLATION WITH THE APPROVED LIGHTING FIXTURE SUBMITTAL AND LIGHTING CONTROLS APPROVED SHOP DRAWINGS PRIOR TO INSTALLING ANY LIGHTING CONTROLS.
- 4.5. WHERE ZONES ARE NOTED, WIRE THESE FIXTURES TO THE DESIGNATED POWPAK MODULE AND CIRCUITING.
- 4.6. ALL SWITCHES, DIMMERS AND SCENE CONTROL STATIONS MUST BE PROGRAMMED PRIOR TO TURNING SITE OVER TO REGENERON. COORDINATE
- 5. FOR LIGHTING CONTROL ZONES, REFER TO DRAWING E-602.

SCENE SETTINGS WITH OWNER REPRESENTATIVE.

6. FOR HALLWAY/CORRIDOR, PROVIDE DEDICATED OVERRIDE SWITCH. OVERRIDE FINAL OVERRIDE SWITCH LOCATION SHALL BE COORDINATED WITH THE

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE

2020 ENERGY CONSERVATION CODE OF NYS

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Alterations or additions to this engineering document Title VIII, Article 145 § 7209.2 of the New York State Education Law.

REGENERON

REAL ESTATE & FACILITIES MANAGEMENT

777 Old Saw Mill River Road Tarrytown, NY 10591-6707 T: 914.847.7400 F: 914.847.7991 www.regeneron.com

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Project No. B17-DAYCARE

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(212) 492-1472 Fax

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(917) 661-7800 Phone

(917) 661-7801 Fax

MEP / IT / Security Engineer Cosentini Associates 498 Seventh Avenue New York, NY 10018

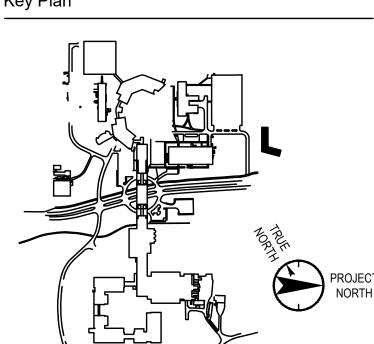
(212) 615-3600 Phone (212) 615-3700 Fax Civil Engineer

120 Bedford Road Armonk, NY 10504 (914) 273-5225 Phone (914) 273-2102 Fax

Landscape Architect

21 Penn Plaza, 360 West 31st Street, 8th Floor New York, NY 10001 (212) 479-5400 Phone (212) 479-5444 Fax

Key Plan



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SUCH DOCUMENTS OR INFORMATION PRODUCED BY DESIGN PROFESSIONAL OUTSIDE OF

Professional Seal and Signature

Drawn By: Al

ELECTRICAL DETAIL SHEET 4

Vendor Name: COSENTINI Vendor Project No.: 210104

Discipline: Electrical

Scale: NTS



- MOUNT GENERATOR, LOAD BANK, AND PORTABLE GENERATOR ON CONCRETE PAD, COORDINATE WITH ARCHITECTURAL DRAWINGS/G.C. FOR PAD REQUIREMENTS.
- ELECTRICAL CONTRACTOR TO COORDINATE THE INSTALLATION OF OWNER FURNISHED PRE PURCHASED ITEMS SUCH AS GENERATOR, LOAD BANK, ATS, AND ROLL UP GENSET CONNECTOR, ELECTRICAL CONTRACTOR TO ACCEPT DELIVERY AND INSTALL IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND APPROVED GENERATOR SHOP DRAWING.



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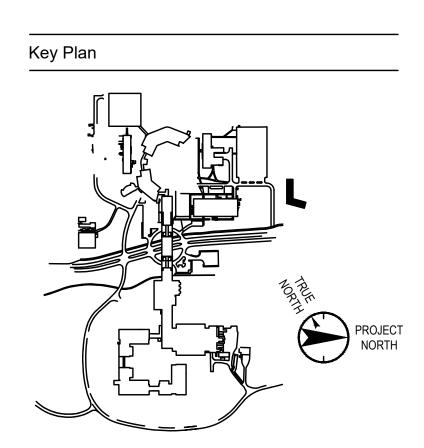
Cosentini Associates 498 Seventh Avenue New York, NY 10018 (212) 615-3600 Phone

(212) 615-3700 Fax Civil Engineer

JMC 120 Bedford Road Armonk, NY 10504 (914) 273-5225 Phone (914) 273-2102 Fax

Landscape Architect

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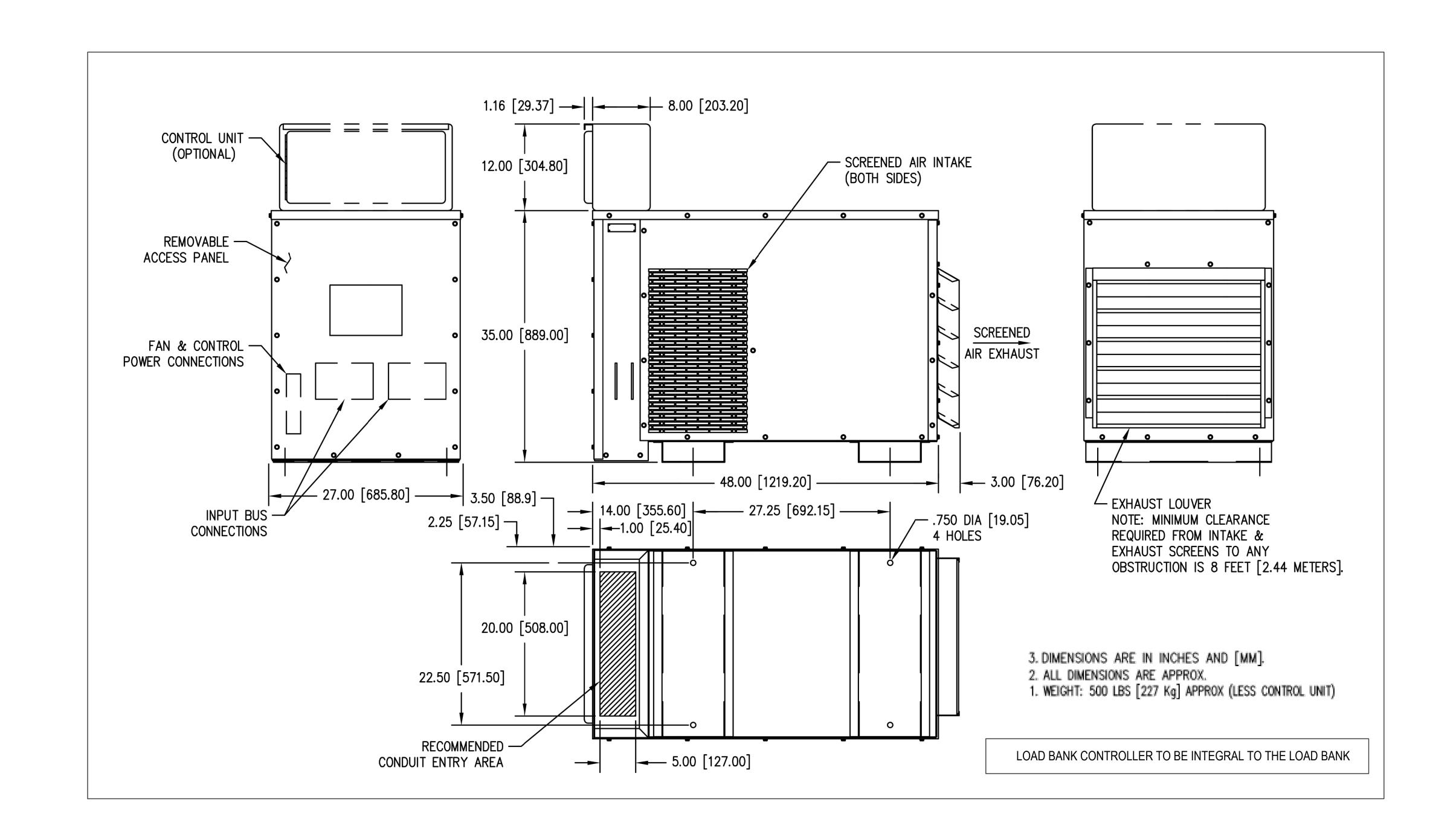
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Discipline: Electrical Drawn By: Al **ELECTRICAL DETAIL SHEET 5**

Scale: NTS Floor:

E-504



NOT TO SCALE

	istribution: 899-HP		W-14- 400/07	7.W 0.ODD		ALO Bedien	051.410	
Location: ELECTRICAL 17-1-041 Supply From: 899-ATS-1-01 Mounting: Surface Enclosure: Type 1		Volts: 480/27 Phases: 3 Wires: 4	- 1			A.I.C. Rating: 65kAIC Mains Type: MCB Mains Rating: 800 A MCB Rating: 800 A		
Notes:								
СКТ	Circuit Des	crintion	# of Poles	Frame Size	Trip Rating	Load	Remarks	
	PLUMBING RM. 899-EH-1-02 3#12 &	•	3	30 A	20 A	5.00 kVA	Kemarks	
	899-HP-XFMR-04 (899-LP-1-04)	1,,,120 0,70	3	200 A	125 A	76.80 kVA	75 KVA XFMR (CLG. MTD.)	
899-HP-1-01#3	899-HP-XFMR-03 (899-LP-1-02)		3	200 A	125 A	69.76 kVA	75 KVA XFMR (CLG. MTD.)	
	899-HP-1-02		3	100 A	60 A	14.92 kVA	LIGHTING PANEL	
	899-HP-XFMR-02 (899-LP-1-01)		3	200 A	125 A	60.94 kVA	75 KVA XFMR (CLG. MTD.)	
	899-DWH-1-02 - 3#6 & 1#10G - 1"C		3	60 A	60 A	30.00 kVA		
	899-DWH-1-01 - 3#10 & 1#10G - 3/4"0	, ,	3	30 A	20 A	12.00 kVA		
	899-DOAS-R-01 - 3#1/0 & 1#6G - 2"C		3	200 A	125 A	98.89 kVA		
	899-DOAS-R-02 - 3#1/0 & 1#6G - 2"C		3	200 A	125 A	98.89 kVA		
	899-EH-1-01 - 3#10 & 1#10G - 3/4"C		3	30 A	30 A	5.00 kVA		
899-HP-1-01#11	899-CU-R-01 - 3#10 & 1#10G - 3/4"C		3	30 A	25 A	17.53 kVA		
899-HP-1-01#12	899-CU-R-02 - 3#10 & 1#10G - 3/4"C		3	30 A	25 A	17.53 kVA		
899-HP-1-01#13	899-CU-R-03 - 3#10 & 1#10G - 3/4"C		3	30 A	25 A	17.53 kVA		
899-HP-1-01#14	899-CU-R-04 - 3#10 & 1#10G - 3/4"C		3	30 A	25 A	17.53 kVA		
899-HP-1-01#15	899-CU-R-05 - 3#10 & 1#10G - 3/4"C		3	30 A	25 A	17.53 kVA		
899-HP-1-01#16	Spare		3		100 A	0.00 kVA	(100AMP FRAME)	
899-HP-1-01#17	Spare (FOR FUTURE SOLAR PANEL)	3		250 A	0.00 kVA	(400AMP FRAME)	
899-HP-1-01#18								
				To	otal Conn. Loa	d: 559.86 kVA		
					Total Amp	os: 673 A		
Legend:								
Load Classification	on	Connected Load	Demand Factor	Estimated De			Panel Totals	
HVAC		141.57 kVA	75.00%	106.18 kV		· · · · · · · · · · · · · · · · · · ·	~~~~~ <u>/</u> 2\	
Heating		287.23 kVA	100.00%	287.23 kV			nn. Load: 559.86 kVA	
	t - Non-Dwelling Unit	8.70 kVA	65.00%	5.66 kV			Demand: 493.87 kVA	
Lighting		14.70 kVA	100.00%	14.70 kV			Current: 673 A	
Other		59.85 kVA	85.00%	50.87 kV		otal Est. Demand	Current: 594 A	
Power		0.36 kVA	100.00%	0.36 kV	_			
Receptacle		47.14 kVA	60.61%	28.57 kV	Α			
		0.32 kVA	100.00%	0.32 kVA				

PANEL 899-HP-1-01 NOTES: 1. FOR ADDITIONAL FEEDER SIZE, REFER TO POWER RISER DIAGRAM IN DRAWING E-700

	Location: ELEC CLOSET 2 Supply From: 899-HP-XFMR-0 Mounting: Surface Enclosure: Type 1)			Volts: Phases: Wires:		o vvye &	GND			A.I.C. Rating: 22kAIC Mains Type: M.C.B Mains Rating: 225 A MCB Rating: 225 A	
Notes:													
СКТ	Circuit Description	Trip	Poles		Α		В		C	Poles	Trip	Circuit Description	<u>^2</u> скт
899-LP-1-02#1	ELEC CLOSET GUTTER ICING CP (GFCI BRK.)	20 A	1	0.20 kVA	0.19 kVA						45.0	899-BSB-1-03, 04, AND 05 UNITS	899-LP-1-02
899-LP-1-02#3	MAIN ENTRY EXTERIOR LIGHTING	20 A	1			0.50 kVA	0.19 kVA			2	15 A	2#12 & 1#12G - 3/4"C	899-LP-1-02
899-LP-1-02#5	LP3 FIXTURES LOBBY/CONF. RM. LIGHTING	20 A	1					0.50 kVA	0.25 kVA	_		PLUMBING CIRC PUMP 2#12 &	899-LP-1-02
899-LP-1-02#7	899-AC-1-05C, 05D, 05E, AND 05F	}		0.49 kVA	0.25 kVA					2	20 A	1#12G - 3/4"C	899-LP-1-02
899-LP-1-02#9	UNITS 2#10 & 1#10G - 3/4"C	20 A	2			0.49 kVA	0.50 kVA					OUTTED DE JOINO (OFOLDRIX) 0//40	\$99-LP-1-02
899-LP-1-02#11		}				NVA	NVA	0.50	0.50	2	30 A	GUTTER DE-ICING (GFCI BRK.) 2#10 & 1#10G - 3/4"C	899-LP-1-02
899-LP-1-02#13	GUTTER DE-ICING (GFCI BRK.) 2#10 & 1#10G - 3/4"C	30 A	2	0.50	1.32			kVA	kVA		}		899-LP-1-02
899-LP-1-02#15		3		kVA	kVA	0.64	1.32			2	20 A	HEAT MAT KPREP 2 - 2#10 & 1#10G - 3/4"C (GFCI BREAKER)	899-LP-1-02
	899-AC-04E, 04F, 05A, AND 05B UNITS 2#10 & 1#10G - 3/4"C	⊋ 0 A	2			kVA	kVA	0.64	0.86				}
899-LP-1-02#17		3		8.36	0.86			kVA	kVA	2	20 A	899-AC-1-04A, 04B, 04C, AND 04D UNITS 2#10 & 1#10G - 3/4"C	899-LP-1-02
899-LP-1-02#19				kVA	kVA	7.00	1.04						899-LP-1-02
899-LP-1-02#21	899-LP-1-02A	100 A	3			7.22 kVA	1.94 kVA			2	30 A	HEAT MAT KPREP 1 - 2#8 & 1#10G - 3/4"C (GFCI BREAKER) - ADD ALT.	899-LP-1-02
899-LP-1-02#23								7.18 kVA	1.94 kVA			3/4 C (GFCI BREAKER) - ADD ALT.	899-LP-1-02
899-LP-1-02#25	HEAT TRACING - ITEM A8 (GFCI BRK.)	₹0 A	1	0.40 kVA	2.11 kVA								899-LP-1-02
899-LP-1-02#27	STORAGE TRAP PRIMERS 'ITEM B3'	30 A	1			0.60 kVA	2.09 kVA			3	50 A	899-LP-1-05	899-LP-1-02
899-LP-1-02#29	HEAT MAT STAFF LOUNGE 2#12 &	}	_					1.19 kVA	2.50 kVA				899-LP-1-02
899-LP-1-02#31	1#12G - 3/4"C (GFCI BRK.)	20 A	2	1.19 kVA	0.40 kVA					1	20 A	HEAT TRACING - ITEM A8 (GFCI BRK.)	899-LP-1-02
899-LP-1-02#33	Spare	20 A	1			0.00 kVA	1.32 kVA				<u> </u>	,	899-LP-1-02
899-LP-1-02#35	PRESCHOOL/KREP PLAYGROUND HEAT TRACING - ITEM A8 (GFCI	20 A	1			KVA	KVA	0.40 kVA	1.32 kVA	2	20 A	HEAT MAT PRESCHOOL 1 - 2#12 & 1#12G - 3/4"C (GFCI BRK.)	899-LP-1-02
899-LP-1-02#37		}		1.32	1.94			KVA	KVA		}		899-LP-1-02
899-LP-1-02#39	HEAT MAT KPREP 2 - 2#12 & 1#12G - 3/4"C (GFCI BREAKER)	₹0 A	2	kVA	kVA	1.32	1.94			2	30 A	HEAT MAT PRESCHOOL 2 - 2#10 & 1#10G - 3/4"C (GFCI BRK.)- ADD ALT.	899-LP-1-02
899-LP-1-02#41		3				kVA	kVA	1.32	1.94		}		899-LP-1-02
	HEAT MAT PRESCHOOL 2 - 2#12 & 1#12G - 3/4"C (GFCI BRK.)	₹0 A	2	1.32	1.94			kVA	kVA	2	30 A	HEAT MAT PRESCHOOL 1 - 2#10 & 1#10G - 3/4"C (GFCI BRK.) - ADD ALT.	}
899-LP-1-02#43		3		kVA	kVA	1.94	0.50						899-LP-1-02
899-LP-1-02#45	HEAT MAT PRESCHOOL 2#10 & 1#10G - 3/4"C (GFCI BRK.) - ADD ALT.	30 A	2			kVA	kVA	4.04	0.50	2	20 A	GUTTER DE-ICING (GFCI BRK.) 2#10 & 1#10G - 3/4"C	899-LP-1-02
899-LP-1-02#47		}			0.70			1.94 kVA	0.50 kVA			W 17700 07 1 0	899-LP-1-02
899-LP-1-02#49	Spare 2	20 A	1	0.00 kVA	0.50 kVA					2	20 A	GUTTER DE-ICING (GFCI BRK.) 2#10	899-LP-1-02
899-LP-1-02#51	Spare	20 A	1			0.00 kVA	0.50 kVA				- · · · · ·	& 1#10G - 3/4"C	899-LP-1-02
899-LP-1-02#53	Spare	20 A	1					0.00 kVA	0.00 kVA	1	20 A	Spare 2	899-LP-1-02
899-LP-1-02#55	Spare	20 A	1	0.00 kVA	0.00 kVA					1	20 A	Spare	899-LP-1-02
899-LP-1-02#57	Spare	20 A	1			0.00 kVA	0.00 kVA			1	20 A	Spare	899-LP-1-02
899-LP-1-02#59	Spare	20 A	1					0.00 kVA	0.00 kVA	1	20 A	Spare	899-LP-1-02
899-LP-1-02#61	Spare	20 A	1	0.00 kVA	0.00 kVA					1	20 A	Spare	899-LP-1-02
899-LP-1-02#63	Spare	20 A	1			0.00 kVA	0.00 kVA			1	20 A	Spare	899-LP-1-02
899-LP-1-02#65	Spare	20 A	1			NVA	AVA	0.00 kVA	0.00 kVA	1	20 A	Spare	899-LP-1-02
Legend:	"				 3 kVA 4 A		1 kVA 2 A	23.48	3 kVA 6 A				
Load Classification	on		nected L		Dei	mand Fa			nated De			Panel Totals	
HVAC Heating			4.35 kVA 33.65 kV			75.00% 100.00%			3.26 kV 33.65 kV			Total Conn. Load: 69.76 kVA	
	: - Non-Dwelling Unit		3.00 kVA	L		80.00%	ı		2.40 kV/	4		Total Est. Demand: 62.38 kVA Total Conn. Current: 194 A	
Other			8.58 kVA	L		85.00%	ı		7.29 kV	4	То	tal Est. Demand Current: 173 A	
Power Receptacle			0.36 kVA 18.82 kV			100.00% 76.57%			0.36 kV/ 14.41 kV				

Di d	Location: ELEC CLOSET 1 Supply From: 899-HP-1-01 Mounting: Surface Enclosure: Type 1				I	Volts: Phases: Wires:		√Wye & (GRD			A.I.C. Rating: 65kAIC Mains Type: M.C.B Mains Rating: 100 A MCB Rating: 60 A			
Notes:															
скт с	Circuit Description 2	∵ Trip	Poles		A		В		C	Poles	Trip~	Circuit Descri	otion ~~~~	2	скт
899-HP-1-02#1	PARKING AREA/ENTRY SITE LIGHTING 2#8 & 1#8G -1"C	20 A	1	1.29 kVA	0.81 kVA					1	20 A	PARKING AREA/GEN. S 2#8 & 1#8G -1"C	ITE LIGHTING	899	-HP-1-02
899-HP-1-02#3	Spare	20 A	1			0.00 kVA	0.55 kVA			1	20 A	BLDG. EXT. ENTRY/INF TODDLER PLAYGRD. L		899	-HP-1-02
899-HP-1-02#5	PRESCHOOL 1/2 CLASSROOM/RESTRM. LTG.	20 A	1					1.28 kVA	1.28 kVA	1	20 A	KREP 1/2 CLASSROOM LTG.	/RESTRM.	899	-HP-1-02
899-HP-1-02#7	INFANT 1-4 CLASSROOM/CHANGING STATION LTG.	20 A	1	1.51 kVA	0.41 kVA					1	20 A	KREP/PRESCHOOL CO LIGHTING	RRIDOR	899	-HP-1-02
899-HP-1-02#9	TODDLER 1 - 4 CLASSROOM/ CHANGING STATION LTG.	20 A	1			1.61 kVA	1.86 kVA			1	20 A	STF. LOUNGE/ INNOVA LOBBY/ CONF./ STUDIC		899	HP-1-02#
899-HP-1-02#11	INFANT/TODDLER CLASSROOMS CORRIDOR LIGHTING	20 A	1					0.52 kVA	0.00 kVA	1	20 A	Spare		899	HP-1-02
899-HP-1-02#13	ROOF MEP AREA LIGHTING	20 A	1	0.08 kVA	0.50 kVA					1	20 A	ELEC CLOSET - 899-TF	-1-01	899	HP-1-02#
899-HP-1-02#15	ELEC./ WARMING STORAGE/ STORAGE LIGHTING	20 A	1			0.98 kVA	0.22 kVA			1	20 A	ÉXÍT LIGHTS	mmm	899-	HP-1-02
899-HP-1-02#17	LOBBY/RECEPTION/ CORRIDOR/COPY/WORK LIGHTING	20 A	1					0.86 kVA	0.22 kVA	1	20 A	EXIT LIGHTS		899-	HP-1-02
899-HP-1-02#19	BLDG. EXT. PARKING/KREP/PRESCHL	20 A	1	0.46 kVA	0.00 kVA					1	20 A	Spare		899-	HP-1-02#
899-HP-1-02#21	Spare	20 A	1			0.00 kVA	0.00 kVA			1	20 A	Spare		899-	HP-1-02#
899-HP-1-02#23	TELE/DATA 899-TF-1-02	20 A	1					0.50 kVA	0.00 kVA	1	20 A	Spare		899-	HP-1-02#
			al Load:		kVA A		kVA 9 A		kVA 7 A		I		'		
egend:															
oad Classificatio	on	Con	nected L	.oad	Der	nand Fa	ctor	Estin	nated De	mand		Panel	Totals		
-ighting			13.70 kV			100.00%			13.70 kV						
Other			1.00 kVA			85.00%			0.85 kV			Total Conn. Load:			
Spare			0.22 kVA			100.00%	b		0.22 kV	4		Total Est. Demand:			
											T -4	Total Conn. Current:			
											ıot	al Est. Demand Current:	18 A		

Bra	nch Panel: 899-LP- Location: ELEC CLOSET of Supply From: 899-LP-1-02 Mounting: Surface Enclosure: Type 1	_			I	Volts: Phases: Wires:	3	3 Wye & (GRD			A.I.C. Rating: 22kAIC Mains Type: M.C.B Mains Rating: 100 A MCB Rating: 100 A		
Notes:														
CKT	Circuit Description	∖ Trip	Poles	,	A		3		;	Poles	Trip	Circuit Descrip	otion 2	СКТ
899-LP-1-02A#1	PARKING AREA SECURITY/ACCESS DEVICE (ITEM A0)) 20 A	1	0.20 kVA	0.36 kVA					1	20 A	PLUMBING/STORAGE RECEPTACLES		899-LP-1-02A#2
899-LP-1-02A#3	SECURITY/ACCESS DEVICE (ITEM A0)) 20 A	1			0.20 kVA	0.54 kVA			1	20 A	INNOVATION STUDIO RECEPTACLES	<u> </u>	899-LP-1-02A#4
899-LP-1-02A#5	EXTERIOR RECEPTACLES - CLASSROOMS) 20 A	1					0.36 kVA	0.60 kVA	1	20 A	STAFF LOUNGE PANTE APPLIANCE	RY 1	899-LP-1-02A#6
899-LP-1-02A#7	KREP 1/2 CLASSROOM RESTROOM RECEPTACLES) 20 A	1	0.72 kVA	1.26 kVA					1	20 A	STORAGE/JC/ELEC RE	CEPTACLES	899-LP-1-02A#8
899-LP-1-02A#9	STAFF LOUNGE PANTRY APPLIANCE	20 A	1			0.60 kVA	1.20 kVA			1	20 A	STAFF LOUNGE PANTE APPLIANCE	RY Σ	899-LP-1-02A#10
899-LP-1-02A#11	STAFF LOUNGE WIREMOLD	20 A	1					0.50 kVA	0.72 kVA	1	20 A	PRESCHOOL 1/2 CLASS RESTROOM RECEPTAGE		899-LP-1-02A#12
899-LP-1-02A#13	K-REP 1/2 CLASSROOM RECEPTACLES	20 A	1	1.44 kVA	0.18 kVA					1	20 A	PRINTER/COPIER RECI	EPTACLE	899-LP-1-02A#14
899-LP-1-02A#15	PRESCHOOL 1/2 CLASSROOM/RESTRM	20 A	1			1.44 kVA	0.18 kVA			1	20 A	PRINTER/COPIER RECI	,	899-LP-1-02A#16
899-LP-1-02A#17	K-PREP 1 CLASSROOM RECEPTACLES	20 A	1					1.62 kVA	0.18 kVA	1	20 A	PARKING AREA SECUR DEVICE (ITEM A0)	RITY/ACCESS (899-LP-1-02A#18
899-LP-1-02A#19	STAFF LOUNGE RECEPTACLES	20 A	1	0.54 kVA	0.72 kVA					1	20 A	CONFERENCE RM. REC	,	899-LP-1-02A#20
899-LP-1-02A#21	INNOVATION STUDIO RECEPTACLES	20 A	1			0.36 kVA	0.72 kVA			1	20 A	KPRE/PRESCHOOL/CO CORRIDOR RECEPTAC		899-LP-1-02A#22
899-LP-1-02A#23	INNOVATION STUDIO RECEPTACLES	20 A	1					0.36 kVA	0.72 kVA	1	5	DIRECTORS OFFICE RI	•	899-LP-1-02A#24
899-LP-1-02A#25	K-REP 2 CLASSROOM RECEPTACLES	20 A	1	1.62 kVA	0.72 kVA					1		ROOF RECEPTACLES		899-LP-1-02A#26
899-LP-1-02A#27	PRE-SCHOOL 1 CLASSROOM RECEPTACLES	20 A	1			1.62 kVA	0.36 kVA			1	20 A	DOAS INTERNAL LIGHT		899-LP-1-02A#28
899-LP-1-02A#29	PRESCHOOL 2 CLASSROOM RECEPTACLES	20 A	1					1.62 kVA	0.50 kVA	1	20 A	STAFF LOUNGE WIREM	MOLD	899-LP-1-02A#30
899-LP-1-02A#31	Spare /2	⁾ 20 A	1	0.00 kVA	0.60 kVA					1	20 A	STAFF LOUNGE ITEM A COOLER		899-LP-1-02A#32
899-LP-1-02A#33		20 A	1			0.00 kVA	0.00 kVA			1	20 A	Spare		899-LP-1-02A#34
899-LP-1-02A#35	Spare	20 A	1					0.00 kVA	0.00 kVA	1	20 A	Spare		899-LP-1-02A#36
899-LP-1-02A#37	Spare	20 A	1	0.00 kVA	0.00 kVA					1	20 A	Spare		899-LP-1-02A#38
899-LP-1-02A#39	Spare	20 A	1			0.00 kVA	0.00 kVA			1	20 A	Spare		899-LP-1-02A#40
899-LP-1-02A#41	Spare	20 A	1	0.00		7.00	1)/4	0.00 kVA	0.00 kVA	1	20 A	Spare		899-LP-1-02A#42
			al Load: I Amps:		kVA A	7.22 60		7.18 60						
Legend:														
Load Classification			nected L		Der	nand Fa	ctor		ated De			Panel	Totals	
Kitchen Equipment Other	- Non-Dwelling Unit		3.00 kVA 0.94 kVA			80.00% 85.00%			2.40 kV <i>A</i> 0.80 kV <i>A</i>			Total Conn. Load:	22.76 kVA	
Power			0.36 kVA			100.00%)		0.36 kV/			Total Est. Demand:		
Receptacle		1	18.46 kVA	\		77.09%		1	4.23 kV	Α		Total Conn. Current:	63 A	
											Tot	al Est. Demand Current:	49 A	
													1	

PANEL SCHEDULE NOTES:	

- 1. PROVIDE BMS INTERFACE IS LIMITED TO DISABLING FLOOR RADIANT HEAT COORDINATE EXACT CRITERIA/WIRING REQUIREMENTS WITH BMS VENDOR.
- 2. ALL WIRING SHALL BE 2#12 & 1#12G 3/4"C UNLESS OTHERWISE NOTED. 3. ALL RUNS OF 75 FEET SHALL BE #10 AWG.
- 4. ENERGY METERS NOTED ON E-700 MAYBE INTEGRATED UNTO THE PANELBOARD IN LIEU OF PROVIDING A SEPARATE WALL MOUNTED UNIT.

	Supply From: 899-HP-XFMR-0. Mounting: Surface Enclosure: Type 1					Wires:	4					Mains Type: M.C.B Mains Rating: 225 A MCB Rating: 225 A	
Notes:													
OVT	Olas II Danadatian		Balas				.		•	Balan	-	Oha ii Baaaisiba	
	Circuit Description FA PANEL 3#10 & 1#10G - 3/4"C	Trip 30 A	Poles 1	0.18	A 0.03		B			Poles	Trip	Circuit Description	899-LP
899-LP-1-01#3	LOCKABLE TYP. BRK) - TELE.DAT	3077		kVA	kVA	2.26	0.03			2	20 A	899-AC-1-07- 2#12 & 1#12G -3/4"C	899-LP
(H	HEAT MAT TODDLER 3 3#8 & 1#10G - 3/4"C (GFCI BRK.)	30 A	2			kVA	kVA	2.26	0.50	1	20 Δ	899-TF-1-03	899-LP
899-LP-1-01#7		}		0.05	1.73			kVA	kVA	' 	20 A	()	899-LP
	399-GXF-R-01 2#12 & 1#12G - 3/4"C	20 A	2	kVA	kVA	0.05	3.18			3	60.4	767-LP-1-03 (GENERATOR PANEL)	899-LP-
899-LP-1-01#11		\				kVA	kVA	0.18	1.50			ONE-LINE DIAGRAM	899-LP-
A	399-AC-1-06 2#12 & 1#12G -3/4"C	20 A	2	0.18	0.79			kVA	kVA			·	899-LP-
899-LP-1-01#15		}		kVA	kVA	0.90	0.79			2	20 A	899-AC-1-02A, 02B, 02C, 02D, AND 02E AC UNITS 2#10 & 1#10G - 3/4"C	899-LP-
3⊦	399-AC-1-03A, 03B, 03C, 03D, AND 03E UNITS 2#10 & 1#10G - 3/4"C	20 A	2			kVA	kVA	0.90	1.05			·	899-LP-
		}		1.30	1.05			kVA	kVA	2	20 A	899-AC-1-01A, 01B, 01C, 01D UNITS (2#10 & 1#10G - 3/4"C)
\ 3	HEAT MAT INFANT 3 2#12 & 1#12G - 3/4"C (GFCI BREAKER)	20 A	2	kVA	kVA	1.30	1.30				}	1	899-LP-
899-LP-1-01#21		}				kVA	kVA	2.26	1.30	2	20 A	HEAT MAT INFANT 3 2#12 & 1#12G = 3/4"C (GFCI BREAKER))
73	HEAT MAT TODDLER 1 2#8 & 1#10G - 3/4"C (GFCI BRK.)	30 A	2	2.26	0.15			kVA	kVA		(}	899-LP-
899-LP-1-01#25		}		kVA	kVA	0.05	0.15			2	20 A	899-AC-1-02F AND 02G UNITS 2#10 8 1#10G - 3/4"C)
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	399-TXF-R-02 2#12 & 1#12G - 3/4"C	20 A	2			kVA	kVA	0.05	0.00			1	899-LP-
899-LP-1-01#29		}		0.05	0.25			kVA	kVA	1	20 A	Spare (899-LP-
	399-TXF-R-01 2#12 & 1#12G - 3/4"C	20 A	2	kVA	kVA	0.05	0.25			2	20 A	899-CU-1-06 2#12 & 1#12G - 3/4"C	899-LP-
899-LP-1-01#33		-				kVA	kVA	0.05	0.25			1	899-LP-
71	899-BSB-01-01 AND 02 UNITS 2#12 & 1#12G - 3/4"C	20 A	2	0.05	0.25			kVA	kVA	2	20 A	WATER HEATER RM CIRC PUMP	899-LP-
899-LP-1-01#37		}		kVA	kVA	0.25	1.30					·	899-LP-
()	399-CU-1-07 2#12 & 1#12G- 3/4"C	20 A	2			kVA	kVA	0.25	1.30	2	20 A	HEAT MAT INFANT 2 2#12 & 1#12G 3 3/4"C (GFCI BREAKER)	899-LP-
899-LP-1-01#41		}		1.30	1.30			kVA	kVA			\(\frac{1}{2}\)	899-LP-
899-LP-1-01#43	HEAT MAT INFANT 1 2#12 & 1#12G - 3/4"C (GFCI BREAKER)	20 A	2	kVA	kVA	1.30	1.30			2	20 A	│ │HEAT MAT INFANT 1 2#12 & 1#12G ┤ 3/4"C (GFCI BREAKER)	899-LP-
899-LP-1-01#45	J. 10 (01 01 21 21 21 21 4)	}				kVA	kVA	1.30	1.30			1	899-LP-
3	HEAT MAT INFANT 4 2#10 & 1#10G - 8/4"C (GFCI BREAKER)	20 A	2	1.30	1.30			kVA	kVA	2	20 A	HEAT MAT INFANT 4 2#12 & 1#12G - 3/4"C (GFCI BREAKER)	899-LP-
899-LP-1-01#49		}		kVA	kVA	1.30	1.66					1	899-LP-
73	HEAT MAT INFANT 2 2#12 & 1#12G - 8/4"C (GFCI BREAKER)	20 A	2			kVA	kVA	1.30	1.66	2	20 A	HEAT MAT MOVEMENT MATTERS 2#10 & 1#10G - 3/4"C (GFCI BRK.) -	899-LP-
899-LP-1-01#53		}		2.26	1.83			kVA	kVA			ADD ALT.	899-LP-
7	HEAT MAT TODDLER 2 2#8 & 1#10G - 3/4"C (GFCI BRK.)	30 A	2	kVA	kVA	2.26	1.83			2	30 A	HEAT MAT MOVEMENT MATTERS 3 2#10 & 1#10G - 3/4"C (GFCI BRK.) - 3	899-LP-
899-LP-1-01#57	,	}				kVA	kVA	2.26	0.00			ADD ALT. ERCES PANEL 3#10 & 1#10G - 3/4"C	899-LP-
	HEAT MAT TODDLER 4 2#10 & 1#10G 3/4"C (GFCI BRK.)	30 A	2	2.26	0.00			kVA	kVA	1	20 A	(LOCKABLE TYP. BRK) - TELE.DAT	899-LP-
899-LP-1-01#61	· · · · · · · · · · · · · · · · · · ·			kVA	kVA	0.00	0.00			1	}	Spare	899-LP-
	Spare 2	20 A	1			kVA	kVA	0.00	0.00	1		Spare $\angle 2$	899-LP-
899-LP-1-01#65		20 A	1	0.00	0.00			kVA	kVA	1		Spare	899-LP-
	Spare	20 A	1	kVA	kVA	0.00	0.00			1		Spare	899-LP-
899-LP-1-01#69	Spare	20 A	1			0.00 kVA	0.00 kVA	0.00	0.00	1	20 A	Spare	899-LP-
	Spare	20 A	1	0.00	0.00			0.00 kVA	0.00 kVA	1	20 A	Spare	899-LP-
899-LP-1-01#73	Spare	20 A	1	0.00 kVA	0.00 kVA	0.00	0.00			1	20 A	Spare	899-LP-
899-LP-1-01#75	Spare	20 A	1			0.00 kVA	0.00 kVA	0.00	0.00	1	20 A	Spare	899-LP-
899-LP-1-01#77	Spare	20 A	1	0.00	0.00			0.00 kVA	0.00 kVA	1	20 A	Spare	899-LP-
899-LP-1-01#79	Spare	20 A	1	0.00 kVA	0.00 kVA	0.00	0.00			1	20 A	Spare	899-LP-
899-LP-1-01#81	Spare	20 A	1			0.00 kVA	0.00 kVA	0.00	0.00	1	20 A	Spare	899-LP-
899-LP-1-01#83	Spare	20 A	1	40.	212/4	0	0.1574	0.00 kVA	0.00 kVA	1	20 A	Spare	899-LP-
l amound			al Load: Il Amps:		3 kVA 55 A		8 kVA 9 A		4 kVA 4 A]			
Legend:													
Load Classification	<u> </u>		nected I		Dei	mand Fa			nated De			Panel Totals	
HVAC				<u>Α</u> Α		75.00% 100.00%			5.66 kV <i>A</i> 15.80 kV			Total Conn. Load: 60.94 kVA	

Branch Panel: 899-LP-1-01

Bra	Inch Panel: 899-LP-	1-03						3 Wye &	GRD			A.I.C. Rating: 22kAIC		
	Supply From: 899-LP-1-01 Mounting: Surface Enclosure: Type 1					Phases: Wires:						Mains Type: M.C.B Mains Rating: 100 A MCB Rating: 60 A		
Notes: GENERATOR MO	UNTED - NEMA 3R									1				
СКТ	Circuit Description 2	Trip	Poles		A		В		С	Poles	Trip	Circuit Descrip	otion /	CKT
899-LP-1-03#1	GEN DAMPER (INTERNAL WIRING TO GENERATOR)	20 A	1	0.08 kVA	0.08 kVA					1	20 A	GEN. HEATER (INTERN TÓ GENERATOR)	ζ	899-LP-1-03#2
899-LP-1-03#3	GEN OUTLET/LTG (INTERNAL WIRING TO GENERATOR)	20 A	1			0.18 kVA	1.50 kVA			2	30 A	BATT CHARGER AND B 1#10G-3/4"G (INTERNA	LOCK 2#10.&	899-LP-1-03#4
899-LP-1-03#5	Spare	20 A	1					0.00 kVA	1.50 kVA	_	2	GENERATOR)	Lunn	899-LP-1-03#6
899-LP-1-03#7	PORTABLE GEN. BATT CHARGER AND BLOCK 2#10 & 1#10G - 3/4"C	30 A	2	1.50 kVA	0.08 kVA					1	20 A	PORTABLE GEN. HEAT (INTERNAL WIRING TO.	/1	899-LP-1-03#8
899-LP-1-03#9	(INTERNAL WIRING TO) GENERATOR)					1.50 kVA	0.00 kVA			1	20 A	Spare	2	899-LP-1-03#10
899-LP-1-03#11	Spare	20 A	1					0.00 kVA	0.00 kVA	1	20 A	Spare		899-LP-1-03#12
899-LP-1-03#13	Spare	20 A	1	0.00 kVA	0.00 kVA	0.00	0.00			1	20 A	Spare		899-LP-1-03#14
899-LP-1-03#15	Space					0.00 kVA	0.00 kVA					Space		899-LP-1-03#16
899-LP-1-03#17	Space	 Tot		4.70) I-V / A	2.40	1.) (A	0.00 kVA	0.00 kVA			Space		899-LP-1-03#18
			al Load: I Amps:		kVA 5 A		kVA A		kVA 3 A	_				
Legend:														
Load Classification	on	Con	nected L	_oad	Der	mand Fa	ctor	Estin	nated De	mand		Panel	Totals	
Other			6.23 kVA			85.00%			5.29 kVA					
Receptacle			0.18 kVA	١		100.00%)		0.18 kVA	4		Total Conn. Load:		
												Total Est. Demand:		
												Total Conn. Current:		
											Tot	tal Est. Demand Current:	15 A	

REGENERON

REAL ESTATE & FACILITIES MANAGEMENT

777 Old Saw Mill River Road Tarrytown, NY 10591-6707

T: 914.847.7400 F: 914.847.7991 www.regeneron.com Building #17

Campus Expansion Child Day-care Center

777 Old Saw Mill River Road Mount Pleasant, NY 10591

Project No. B17-DAYCARE

Gensier

1700 Broadway, Suite 400
New York, NY 10019
(212) 492-1400 Phone
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Structural Engineer

Thornton Tomasetti 120 Broadway, 15th Floor New York, NY 10271 (917) 661-7800 Phone (917) 661-7801 Fax

MEP / IT / Security Engineer

Cosentini Associates 498 Seventh Avenue New York, NY 10018 (212) 615-3600 Phone (212) 615-3700 Fax

Civil Engineer

JMC 120 Bedford Road Armonk, NY 10504 (914) 273-5225 Phone (914) 273-2102 Fax

Landscape Architect

Langan
21 Penn Plaza, 360 West 31st Street, 8th Floor New York, NY 10001 (212) 479-5400 Phone (212) 479-5444 Fax

Key Plan

I	No.	Date	Description
_	0	05.20.2022	ISSUED FOR PERMIT
	1	06.20.2022	100% CONSTRUCTION DOCUMENTS

2 07.01.2022 100% CONSTRUCTION DOCUMENTS-1

Plot Date: 07.01.2022 ALL DRAWINGS AND WRITTEN MATERIALS REPRESENTED ON THIS SHEET CONSTITUTE THE COPYRIGHTED WORK AND ARE THE SOLE PROPERTY OF REGENERON PHARMACEUTICALS. THIS SHEET MAY NOT BE REPRODUCED OR COPIED IN WHOLE OR IN PART, NOR MAY ANY OF THE DRAWINGS OR WRITTEN MATERIALS APPEARING WITHIN, BE INCORPORATED INTO ANOTHER WORK FOR ANY REASON WITHOUT THE WRITTEN CONSENT OF REGENERON PHARMACEUTICALS. THIS SHEET MUST BE RETURNED UPON THE REQUEST OF REGENERON PHARMACEUTICALS. IF REGENERON MAKES OR AUTHORIZES REUSE OF ANY SUCH DOCUMENTS OR INFORMATION PRODUCED BY DESIGN PROFESSIONAL OUTSIDE OF THE PROJECT WITHOUT THE EXPRESS WRITTEN CONSENT OF DESIGN PROFESSIONAL, REGENERON ASSUMES FULL RESPONSIBILITY FOR ANY AND ALL RISKS INVOLVED IN SUCH

Professional Seal and Signature

Vendor Name: COSENTINI Vendor Project No.: 210104
Discipline: Electrical Drawn By: Al ELECTRICAL SCHEDULÉS SHEET 1

Floor:

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATION ARE IN COMPLIANCE WITH THE 2020 ENERGY CONSERVATION CODE OF NYS

This plan is approved only for work indicated on the application specification sheet. All other matters shown are document by an unlicensed person is a violation not to be relied upon, or to be considered as either being of Chapter 16, Title VIII, Article 145 § 7209.2 of approved or in accordance with applicable codes.

Alterations or additions to this engineering the New York State Education Law.

Total Conn. Current: 169 A

Total Est. Demand Current: 161 A

0.18 kVA

100.00%

0.18 kVA

Ві	anch Panel: 899-LP-		ļ.										
	Location: ELECTRICAL 17 Supply From: 899-HP-XFMR-0 Mounting: Surface Enclosure: Type 1					Volts: Phases: Wires:		3 Wye & 0	GRD			A.I.C. Rating: 22kAIC Mains Type: M.C.B Mains Rating: 225 A MCB Rating: 225 A	
Notes:	<u> </u>												
Notes:													
СКТ	Circuit Description	Trip	Poles		Α	ı	В			Poles	Trip	Circuit Description	2 СКТ
899-LP-1-04#	SECURITY/ACCESS DEVICE (ITEM	320 A	1	0.18 kVA	0.54 kVA					1	20 A	LOBBY/RECEPTION RECEPTACLES	899-LP-1-04#2
899-LP-1-04#	SECURITY/ACCESS DEVICE (ITEM	320 A	1			0.18 kVA	0.54 kVA			1	20 A	EXTERIOR RECEPTACLES	899-LP-1-04#4
899-LP-1-04#	VESTIBULE SECURITY/ACCESS DEVICE (ITEM A0)	20 A	1					0.40 kVA	0.60 kVA	1	20 A	DRINKING FOUNTAIN RECEPTACLE	899-LP-1-04#6
899-LP-1-04#	, , , , , , , , , , , , , , , , , , ,	20 A	1	0.60 kVA	0.72 kVA					1	20 A	TODDLER CLASSROOM CHANGING STATION RECEPTACLES	899-LP-1-04#8
899-LP-1-04#	RECEPTACLES	20 A	1			1.44 kVA	0.20 kVA			1	20 A	INFANT PLAYGROUND SECURITY/ACCESS DEVICE (ITEM	899-LP-1-04#10
899-LP-1-04#1	INFANT 2 CLASSROOM RECEPTACLES	20 A	1					1.26 kVA	0.20 kVA	1	20 A	EV CHARGING/WARMING KITCHEN AREA SEC./ACCESS DEVICE (ITEM	899-LP-1-04#12
899-LP-1-04#1	,	20 A	1	1.20 kVA	1.26 kVA					1	20 A	INFANT 1 CLASSROOM RECEPTACLES	899-LP-1-04#14
899-LP-1-04#1	HEALTH AND SAFETY DIRECTOR OFFICE RECEPTACLES	20 A	1			0.36 kVA	0.54 kVA			1	20 A	TOILET RECEPTACLES	899-LP-1-04#16
899-LP-1-04#1	WARMING KITCHEN RECEPTACLES	20 A	1					0.36 kVA	2.00 kVA	2	50 A	LAUNDRY DRYER RECEPTACLE 4#8	899-LP-1-04#18
899-LP-1-04#1	LAUNDRY DRYER RECEPTACLE 4#8	50 A	2	2.00 kVA	2.00 kVA	-	4.7				}	& 1#10G - 1"C	899-LP-1-04#20
899-LP-1-04#2	1 4 1 1 0 0 1 0 0 0 0 0	3				2.00 kVA	12.45 kVA	0.5	40.1-		\	Luuuuuuu	899-LP-1-04#22
899-LP-1-04#2	<i>></i>	320 A	1					0.54 kVA	12.45 kVA	3	125 A	899-LP-1-04A	899-LP-1-04#24
899-LP-1-04#2	SECURITY/ACCESS DEVICE (ITEM A0)	320 A	1	0.20 kVA	8.30 kVA							~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	899-LP-1-04#26
899-LP-1-04#2	7 LAUNDRY WASHER RECEPTACLE	320 A	1			0.60 kVA	0.60 kVA			1	20 A	WARMING PANTRY APPLIANCE	899-LP-1-04#28
899-LP-1-04#2	}	320 A	1					0.60 kVA	0.60 kVA	1	20 A	LAUNDRY WASHER RECEPTACLE	899-LP-1-04#30
899-LP-1-04#3	OFFICE RECEPTAGLES	20 A	1	0.36 kVA	0.54 kVA					1	20 A	MEP/STORAGE RECEPTACLES	899-LP-1-04#32
899-LP-1-04#3	WARMING KITCHEN/WATER HEATER RECEPTACLES	320 A	1			0.72 kVA	1.08 kVA			1	20 A	INFANT/TODDLER CLASSROOMS CORRIDOR RECEPTACLES	899-LP-1-04#34
899-LP-1-04#3	WELLNESS RECEPTACLES	320 A	1					0.72 kVA	1.08 kVA	1	20 A	MOVEMENT MATTERS RECEPTACLES	899-LP-1-04#36
899-LP-1-04#3	}	20 A	1	0.60 kVA	0.60 kVA					1	20 A	WARMING PANTRY APPLIANCE	899-LP-1-04#38
899-LP-1-04#3	RECEPTACLES	20 A	1			1.26 kVA	1.26 kVA			1	20 A	INFANT 4 CLASSROOM RECEPTACLES	899-LP-1-04#40
899-LP-1-04#4	RECEPTACLES	20 A	1					1.26 kVA	1.26 kVA	1	20 A	TODDLER 1 CLASSROOM RECEPTACLES	899-LP-1-04#42
899-LP-1-04#4	RECEPTACLE	20 A	1	0.72 kVA	1.08 kVA					1	20 A	INFANT CLASSROOM CHANGING STATION RECEPTACLES	899-LP-1-04#44
899-LP-1-04#4	RECEPTACLES	20 A	1			1.44 kVA	0.00 kVA			1	20 A	ASCO 920 RELAY '899-RC-01'	899-LP-1-04#46
899-LP-1-04#4	RECEPTACLES	20 A	1					1.44 kVA	0.10 kVA	1	20 A	JCI ATS AND GEN MONITORING PANEL	899-LP-1-04#48
899-LP-1-04#4	RECEPTACLES	20 A	1	1.26 kVA	1.26 kVA					1	20 A	INFANT 3 CLASSROOM RECEPTACLES	899-LP-1-04#50
899-LP-1-04#5	PRIIVIERS ITEM B3	20 A	1			0.30 kVA	0.17 kVA			_	{		899-LP-1-04#52
899-LP-1-04#5	> WATER COOLER	20 A	1					0.60 kVA	0.17 kVA	3	40 A	WARMING KITCHEN KITCHEN APPLIANCE 'A5' 4#8 & 1#10G - 3/4"C	899-LP-1-04#54
899-LP-1-04#5	INFANT 3/4 CLASSROOM RECEPTACLES	∑20 A	1	1.44 kVA	0.17 kVA						<u> </u>		899-LP-1-04#56
899-LP-1-04#5						0.17 kVA	0.17 kVA				{		899-LP-1-04#58
899-LP-1-04#5	4#8 & 1#10G - 3/4"C	₹40 A	3					0.17 kVA	0.17 kVA	3	40 A	STAFF LOUNGE KITCHEN APPLIANCE 'A5' 4#8 & 1#10G - 3/4"C	899-LP-1-04#60
899-LP-1-04#6)	3		0.17 kVA	0.17 kVA						{		899-LP-1-04#62
899-LP-1-04#6	3 Spare /2	20 A	1			0.00 kVA	0.00 kVA			1	20 A	Spare /2	899-LP-1-04#64
899-LP-1-04#6	5 Spare	20 A	1					0.00 kVA	0.00 kVA	1	20 A	Spare	899-LP-1-04#66
899-LP-1-04#6	7 Spare	20 A	1	0.00 kVA	0.00 kVA					1	20 A	Spare	899-LP-1-04#68
899-LP-1-04#6	9 Spare	20 A	1			0.00 kVA	0.00 kVA			1	20 A	Spare	899-LP-1-04#70
899-LP-1-04#7	1 Spare	20 A	1	-	_			0.00 kVA	0.00 kVA	1	20 A	Spare	899-LP-1-04#72
899-LP-1-04#7	3 Spare	20 A	1	0.00 kVA	0.00 kVA	-				1	20 A	Spare	899-LP-1-04#74
899-LP-1-04#7	5 Spare	20 A	1			0.00 kVA	0.00 kVA			1	20 A	Spare	899-LP-1-04#76
899-LP-1-04#7	7 Spare	20 A	1					0.00 kVA	0.00 kVA	1	20 A	Spare	899-LP-1-04#78
899-LP-1-04#7	9 Spare	20 A	1	0.00 kVA	0.00 kVA					1	20 A	Spare	899-LP-1-04#80
899-LP-1-04#8	1 Spare	20 A	1			0.00 kVA	0.00 kVA			1	20 A	Spare	899-LP-1-04#82
899-LP-1-04#8	3 Spare	20 A	1				-1	0.00 kVA	0.00 kVA	1	20 A	Spare	899-LP-1-04#84
			al Load: al Amps:		6 kVA 1 A		7 kVA 2 A		7 kVA 7 A				
Legend:													
Load Classifica			nected I		Der	mand Fa			nated De			Panel Totals	
Other	ent - Non-Dwelling Unit		5.70 kV 42.86 kV	А		65.00% 85.00%		3	3.71 kV 36.43 kV	A		Total Conn. Load: 76.80 kVA	
Receptacle Spare			28.14 kV 0.10 kV			67.77% 100.00%			19.07 kV 0.10 kV			Total Est. Demand: 59.31 kVA Total Conn. Current: 213 A	
											Tota	al Est. Demand Current: 165 A	

PANEL SCHEDULE NOTES:

- 1. ALL WIRING SHALL BE 2#12 & 1#12G 3/4"C UNLESS OTHERWISE NOTED.
- 2. ALL RUNS OF 75 FEET SHALL BE #10 AWG.
- 3. ENERGY METERS NOTED ON E-700 MAYBE INTEGRATED UNTO THE PANELBOARD IN LIEU OF PROVIDING A SEPARATE WALL MOUNTED UNIT.

899-LP-1-05#1 (LC 899-LP-1-05#3 TE 899-LP-1-05#5 TE	ELE/DATA BMS PANEL OCKABLE TYP. BRK., SEE ELE/DATA SECURITY PANEL OCKABLE TYP. BRK., SEE ELE/DATA RECEPTACLES	Trip 20 A 20 A	Poles	0.18	Ą									
899-LP-1-05#1 (LC	ELE/DATA BMS PANEL OCKABLE TYP. BRK., SEE ELE/DATA SECURITY PANEL OCKABLE TYP. BRK., SEE	20 A		0.18	A									
899-LP-1-05#1 (LC	ELE/DATA BMS PANEL OCKABLE TYP. BRK., SEE ELE/DATA SECURITY PANEL OCKABLE TYP. BRK., SEE	20 A		0.18			В		2	Poles	Trip		otien	<u>2</u> скт
899-LP-1-05#3 (LC 899-LP-1-05#5 TE 899-LP-1-05#7 TE	OCKABLE TYP. BRK., SEE	20 A		kVA	0.18 kVA					1	20 A	TELE/DATA SECURITY (LOCKABLE TYP. BRK.)		899-LP-1-05#2
899-LP-1-05#7	ELE/DATA RECEPTACLES	1	1			0.18 kVA	1.16 kVA			1	20 A	TELE/DATA RECEPTACI	LES	899-LP-1-05#
		320 A	1					1.00 kVA	0.75 kVA	2	30 A	TELE/DATA L6-30R IT R		899-LP-1-05#
900 LD 1 05#0	ELE/DATA IT RECEPTACLE L5-20R	20 A	1	1.00 kVA	0.75 kVA						30 A	2#10 & 1#10G - 3/4"C (U	·	899-LP-1-05#
√{ TE	ELE/DATA L6-30R IT RECEPTACLE	30 A	2			0.75 kVA	0.00 kVA			1	20 A	Spare		899-LP-1-05#1
899-LP-1-05#11	#10 & 1#10G - 3/4"C (UPS UNIT)	30 A	2					0.75 kVA	0.00 kVA	1	20 A	Spare		899-LP-1-05#1
	pare 2	20 A	1	0.00 kVA	0.00 kVA					1	20 A	Spare		899-LP-1-05#1
899-LP-1-05#15 Sp	pare	20 A	1			0.00 kVA	0.00 kVA			1	20 A	Spare		899-LP-1-05#1
899-LP-1-05#17 Sp	pace							0.00 kVA	0.00 kVA			Space		899-LP-1-05#1
899-LP-1-05#19 Sp	pace			0.00 kVA	0.00 kVA							Space		899-LP-1-05#2
899-LP-1-05#21 Sp	pace					0.00 kVA	0.00 kVA					Space		899-LP-1-05#2
899-LP-1-05#23 Sp	pace	 Tot:	 al Load:	2.11	k\/A	2 00) kVA	0.00 kVA 2.50	0.00 kVA			Space		899-LP-1-05#2
			ai Load. [Il Amps:		B A		7 A		A	J				
Legend: Load Classification		Con	nected L	_oad	Der	mand Fa	ector	Estim	ated De	mand		Panel	Totals	
Other			6.34 kVA			85.00%			5.39 kVA					
Receptacle			0.36 kVA	١		100.00%	, 0		0.36 kVA	١		Total Conn. Load:		
												Total Est. Demand:		
											7 - 4	Total Conn. Current: al Est. Demand Current:		

PANEL 899-LP-1-05 NOTE:

1. PROVIDE LOCKABLE TYPE CIRCUIT BREAKER.

	Location: ELECTRICAL 17 Supply From: 899-LP-1-04 Mounting: Surface Enclosure: Type 1	-1-041			I	Volts: Phases: Wires:	-	3 Wye &	GRD			A.I.C. Rating: 22kAIC Mains Type: M.C.B Mains Rating: 125 A MCB Rating: 125 A	
Notes:													
СКТ	Circuit Description	Trip	Poles		A		В		C	Poles	Trip	Circuit Description	скт
899-LP-1-04A#1				4.15 kVA	4.15 kVA								899-LP-1-04A#2
899-LP-1-04A#3	EV CAR CHARGERS (SEE NOTE 1) **	50 A	2			4.15 kVA	4.15 kVA			2	50 A	EV CAR CHARGERS (SEE NOTE 1) **	899-LP-1-04A#4
899-LP-1-04A#5	EV CAR CHARGERS (SEE NOTE 1) **	50 A	2					4.15 kVA	0.00 kVA	1	20 A	Spare	899-LP-1-04A#6
899-LP-1-04A#7	EV CAR CHARGERS (SEE NOTE 1)	30 A	2	4.15 kVA	0.00 kVA					1	20 A	Spare	899-LP-1-04A#8
899-LP-1-04A#9	EV CAR CHARGERS (SEE NOTE 1) **	50 A	2			4.15 kVA	0.00 kVA			1	20 A	Spare	899-LP-1-04A#10
899-LP-1-04A#11	LV CAR CHARGERS (SEE NOTE 1)	30 A	2					4.15 kVA	0.00 kVA	1	20 A	Spare	899-LP-1-04A#12
899-LP-1-04A#13	Spare	20 A	1	0.00 kVA	0.00 kVA					1	20 A	Spare	899-LP-1-04A#14
899-LP-1-04A#15	Spare	20 A	1			0.00 kVA	0.00 kVA					Space	899-LP-1-04A#16
899-LP-1-04A#17	Space							0.00 kVA	0.00 kVA			Space	899-LP-1-04A#18
899-LP-1-04A#19	Space			0.00 kVA	0.00 kVA							Space	899-LP-1-04A#20
899-LP-1-04A#21	Space					0.00 kVA	0.00 kVA					Space	899-LP-1-04A#22
899-LP-1-04A#23	Space							0.00 kVA	0.00 kVA			Space	899-LP-1-04A#24
			al Load:		kVA		5 kVA		kVA				
Legend:		TOta	Il Amps:	10	9 A	10	9 A	08	9 A				
Load Classification	on	Con	nected L	.oad	Der	nand Fa	ctor	Estin	nated De	mand		Panel Totals	
Other		;	33.20 kV <i>A</i>	١		85.00%		2	28.22 kV	A		7 .10	
												Total Conn. Load: 33.20 kVA Total Est. Demand: 28.22 kVA	
												Total Conn. Current: 92 A	
					I			1					

PANEL 899-LP-1-04A NOTES:

- 1. RUN TWO EV CAR CHARGERS POWER FEED IN A SINGLE CONDUIT WITH 4#6 & 1#6G 1 1/4"C.
- 2. PANEL 899-LP-1-04A SHALL BE WIRED TO 125A ASCO RELAY PANEL '899-RC-01' MOUNTED ABOVE PANEL 899-LP-1-04A, PROVIDE 6#14 - 3/4"C FROM RELAY PANEL TO ATS FOR LOCK-OUT OF EV CHARGERS UPON ACTIVATION OF THE GENERATOR.

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Building #17 Campus Expansion Child Day-care Center

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Project No. B17-DAYCARE

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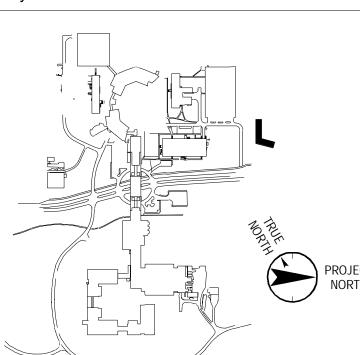
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Key Plan



No. Date Description

0 05.20.2022 ISSUED FOR PERMIT 1 06.20.2022 100% CONSTRUCTION DOCUMENTS 2 07.01.2022 100% CONSTRUCTION DOCUMENTS-1

Plot Date: 07.01.2022

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Professional Seal and Signature

Vendor Name: COSENTINI Vendor Project No.: 210104 Discipline: Electrical ELECTRICAL SCHEDULÉS SHEET 2

Scale: Floor:

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATION ARE IN COMPLIANCE WITH THE 2020 ENERGY CONSERVATION CODE OF NYS

This plan is approved only for work indicated on the application specification sheet. All other matters shown are document by an unlicensed person is a violation not to be relied upon, or to be considered as either being of Chapter 16, Title VIII, Article 145 § 7209.2 of approved or in accordance with applicable codes.

Alterations or additions to this engineering the New York State Education Law.

CONTROL ZONE	DESCRIPTION	FIXTURE TYPE			G CONT NON-DIM	ELV 0-10V		HEDULE VATTS	TOTAL LOAD	QTY. OF CKTS.	REMARKS
7-1-001 - V	/ESTIBULE		1			<u> </u>				CIXID.	
LZ1 7-1-002 - L	DOWNLIGHTS LOBBY / RECEPTION	LS1	4	ļ <u> </u>		X	10	PER FIXT.	40W	1	
LZ2 LZ3	RECESSED ADJUSTABLE DOWNLIGHTS RECESSED ADJUSTABLE DOWNLIGHTS	LD2 LD2	1-7	4		X X	24 24	PER FIXT. PER FIXT.	336W 168W	1 1	
LZ4 LZ102	PENDANTS RECESSED DOWNLIGHT	LP3 LD1	3	3		X X	10 15	PER FIXT. PER FIXT.	30W 15W	1 1	
1 7-1-003 - D LZ5	DIRECTOR'S OFFICE DOWNLIGHTS	LD1	T 6	5		X	15	PER FIXT.	90W	1	
	CONFERENCE						10			-	
LZ6 LZ7	DOWNLIGHTS PENDANTS	LD1 LP3	2	1		X X	15 10	PER FIXT. PER FIXT.	60W 20W	1 1	
17-1-005 - II LZ8	NNOVATION STUDIO 2X2 CEILING GRID INTEGRATED LIGHTING	LR2	1			X	64	PER FIXT.	64W	1 1	
LZ8 LZ8	2X4 CEILING GRID INTEGRATED LIGHTING 4X4 CEILING GRID INTEGRATED LIGHTING 4X4 CEILING GRID INTEGRATED LIGHTING	LR3 LR4	2	2		X X X	96 128	PER FIXT. PER FIXT.	192W 128W	1 1	
LZ9 LZ9	2X2 CEILING GRID INTEGRATED LIGHTING 2X4 CEILING GRID INTEGRATED LIGHTING	LR2 LR3	1 2	2		X X	64 96	PER FIXT. PER FIXT.	64W 192W	1 1	
LZ9	4X4 CEILING GRID INTEGRATED LIGHTING	LR4	1			X	128	PER FIXT.	128W	1	
17-1-006 - Jo LZ10	2X4 RECESSED	LR1	1		X		50	PER FIXT.	50W	1	
17-1-007 - S ' LZ11	TORAGE 2X4 RECESSED	LR1	1		X	X	50	PER FIXT.	50W	1	
	COPY / WORK	ID1				V	1.5	DED EIVE	COM		
LZ12	TAFF TOILET	LD1	4	-		X	15	PER FIXT.	60W	1	
LZ13	2X4 RECESSED	LD1	2	2		X	15	PER FIXT.	30W	1	
LZ14	2X4 CEILING GRID INTEGRATED LIGHTING	LR3	2			X	96	PER FIXT.	192W	1	
LZ14 LZ15	2X2 CEILING GRID INTEGRATED LIGHTING PENDANTS	LR2 LP2	4			X X	30	PER FIXT. PER FIXT.	128W 120W	1 1	
17-1-012 - S ' LZ16	TORAGE 2X4 RECESSED	LR1	1		X		50	PER FIXT.	50W	1	
17-1-013 - E	ELECTRICAL CLOSET										
LZ17	LINEAR LED SURFACE OR SUSPENDED	A	1		X		50	PER FIXT.	50W	1	
LZ18 LZ19	PRESCHOOL 1 2X2 CEILING GRID INTEGRATED LIGHTING 2X4 CEILING GRID INTEGRATED LIGHTING	LR2 LR3	2			X X	64	PER FIXT. PER FIXT.	128W 288W	1 1	
LZ19 LZ18 LZ20	4X4 CEILING GRID INTEGRATED LIGHTING PENDANTS	LR4 LP2	1 3	L		X X X	128	PER FIXT. PER FIXT.	128W 90W	1 1	
LZ21 LZ22	PENDANTS TOILET DOWNLIGHTS	LP2 LD1	1	5	X	X	30 15	PER FIXT. PER FIXT.	180W 15W	1 1	
LZ23 LZ24	TOILET DOWNLIGHTS STORAGE DOWNLIGHT	LD1 LD1	1		X X		15 15	PER FIXT. PER FIXT.	15W 15W	1 1	
17-1-015 - P	PRESCHOOL 2 2X2 CEILING GRID INTEGRATED LIGHTING	LR2	2	2		X	64	PER FIXT.	128W	1	
LZ26 LZ25	2X4 CEILING GRID INTEGRATED LIGHTING 4X4 CEILING GRID INTEGRATED LIGHTING	LR3 LR4	3			X X X	96 128	PER FIXT. PER FIXT.	288W 128W	1 1	
LZ27 LZ28	PENDANTS PENDANTS TOUET DOWNLIGHTS	LP2 LP2	3			X X	30	PER FIXT. PER FIXT.	90W 180W	1 1	
LZ29 LZ30 LZ31	TOILET DOWNLIGHTS TOILET DOWNLIGHTS STORAGE DOWNLIGHT	LD1 LD1 LD1	1		X X X		15 15 15	PER FIXT. PER FIXT. PER FIXT.	15W 15W 15W	1 1	
17-1-016 - K			1		Α		13	TERTIZI.	13 W	1	
LZ32 LZ33	2X2 CEILING GRID INTEGRATED LIGHTING 2X4 CEILING GRID INTEGRATED LIGHTING	LR2 LR3	3			X X	64 96	PER FIXT. PER FIXT.	128W 288W	1 1	
LZ32 LZ34	4X4 CEILING GRID INTEGRATED LIGHTING PENDANTS PENDANTS	LR4 LP2	3			X X	30	PER FIXT. PER FIXT.	90W	1 1	
LZ35 LZ36 LZ37	PENDANTS TOILET DOWNLIGHTS TOILET DOWNLIGHTS	LP2 LD1 LD1	1		X	X	30 15 15	PER FIXT. PER FIXT. PER FIXT.	180W 15W 15W	1 1	
LZ38	STORAGE DOWNLIGHT	LD1	1		X		15	PER FIXT.	15W	1	
17-1-017 - K LZ39	2X2 CEILING GRID INTEGRATED LIGHTING	LR2	2			X	64	PER FIXT.	128W	1	
LZ40 LZ39 LZ41	2X4 CEILING GRID INTEGRATED LIGHTING 4X4 CEILING GRID INTEGRATED LIGHTING PENDANTS	LR3 LR4 LP2	1 3			X X X	96 128 30	PER FIXT. PER FIXT. PER FIXT.	288W 128W 90W	1 1	
LZ42 LZ43	PENDANTS TOILET DOWNLIGHTS	LP2 LD1	6		X	X	30	PER FIXT. PER FIXT.	180W 15W	1 1	
LZ44 LZ45	TOILET DOWNLIGHTS STORAGE DOWNLIGHT	LD1 LD1	1		X X		15 15	PER FIXT. PER FIXT.	15W 15W	1 1	
	PLUMBING LINEAD LED SLIDEACE OD SLISDENDED				***			DDD DXX	1,50***	-	
LZ46 1 7-1-019 - S '	LINEAR LED SURFACE OR SUSPENDED STORAGE	A	3	,	X		50	PER FIXT.	150W	1	
LZ47	2X4 RECESSED	LR1	2	2	X		50	PER FIXT.	100W	1	
17-1-020 - C LZ48	CORRIDOR LED SURFACE MOUNTED DOWNLIGHT	LS1	20	0		X	10	PER FIXT.	200W	1	
LZ49 LZ110	LED SURFACE MOUNTED DOWNLIGHT LED RECESSED DOWNLIGHT AT EXIT VESTIBULE	LS1 LD1	1:	9		X X	10 15	PER FIXT. PER FIXT.	190W 15W	1 1	
17-1-021 - C LZ105	CORRIDOR LED SURFACE MOUNTED DOWNLIGHT	LD1		<u>, </u>		X	15	PER FIXT.	60W	1	
	CORRIDOR	ועז	4	-		Λ	13	LEXTIAL.	JU YY	1	
LZ50 LZ51	LED SURFACE MOUNTED DOWNLIGHT LED SURFACE MOUNTED DOWNLIGHT	LS1 LS1	19	9		X X	10	PER FIXT. PER FIXT.	190W 190W	1 1	
LZ109 LZ107	LED RECESSED DOWNLIGHT AT EXIT VESTIBULE LED SURFACE MOUNTED DOWNLIGHT LED SURFACE MOUNTED DOWNLIGHT	LD1 LS1	2	ı		X X	15	PER FIXT. PER FIXT.	30W 40W	1 1	
LZ108 17-1-023 - W	LED SURFACE MOUNTED DOWNLIGHT MOVEMENT MATTERS ZONE	LS1	5)		X	10	PER FIXT.	50W	1	
LZ52 LZ52	2X2 CEILING GRID INTEGRATED LIGHTING 2X4 CEILING GRID INTEGRATED LIGHTING	LR2 LR3	1 2	2		X X	64 96	PER FIXT. PER FIXT.	64W 192W	1 1	
LZ52 LZ53	4X4 CEILING GRID INTEGRATED LIGHTING 2X2 CEILING GRID INTEGRATED LIGHTING	LR4 LR2	1 2	2		X X	128 64	PER FIXT. PER FIXT.	128W 128W	1 1	
LZ53	2X4 CEILING GRID INTEGRATED LIGHTING	LR3	2	2		X	96	PER FIXT.	192W	1	
17-1-024 - S ' LZ106	2X4 RECESSED	LR1	1		X		50	PER FIXT.	50W	1	
17-1-025 - T LZ54	RECESSED DOWNLIGHT	LD1	2	2	X		15	PER FIXT.	30W	1	
	HEALTH & SAFETY DIRECTOR								_		
LZ55	RECESSED DOWNLIGHT	LD1	4	ļ [X	15	PER FIXT.	60W	1	
17-1-027 - T LZ56	LINEAR LED SURFACE OR SUSPENDED	A	1		X		50	PER FIXT.	50W	1	
17-1-028 - C LZ57	CAR SEAT AND STROLLER STORAGE RECESSED DOWNLIGHT	LD1	4	<u> </u>	X		15	PER FIXT.	60W	1	
	WELLNESS PEGEGGED DOWN LIGHT	_							_		
LZ58	RECESSED DOWNLIGHT	LD1	4	ļ Ī	X		15	PER FIXT.	60W	1	
17-1-030 - T LZ59	RECESSED DOWNLIGHT	LD1	2	2	X		15	PER FIXT.	30W	1	
17-1-031 - T LZ60	RECESSED DOWNLIGHT	LD1	2	2	X		15	PER FIXT.	30W	1	
_							_		_		

CONTROL			7		KUL ZC	INE LOA	ND SC	HEDULE		OTV OF	REMARKS
CONTROL ZONE	DESCRIPTION	FIXTURE TYPE	QTY.	NON-DIM	ELV	0-10V	V	VATTS	TOTAL LOAD	QTY. OF CKTS.	CANANIA
7 1 022 12	JEANT 1			- I		-			_		
7-1-032 - IN LZ80	NFANT 1 2X2 CEILING GRID INTEGRATED LIGHTING	LR2	2			X	64	PER FIXT.	128W	1	
LZ80	2X4 CEILING GRID INTEGRATED LIGHTING	LR3	1			X	96	PER FIXT.	96W	1	
LZ81	2X4 CEILING GRID INTEGRATED LIGHTING	LR3	2			X	96	PER FIXT.	192W	1	
LZ81	4X4 CEILING GRID INTEGRATED LIGHTING	LR4	1			X	128	PER FIXT.	128W	1	
LZ82	RECESSED DOWNLIGHT	LD1	2			X	15	PER FIXT.	30W	1	
LZ83 LZ84	WALL SCONCE TOILET INFANT 3 & 4	LS2 LD1	6	X		X	10	PER FIXT. PER FIXT.	10W 90W	1	
LLOT	TOTAL TRAINING S & 4			71			13	TERTIMI.	7011	1	
'-1-033 - IN	NFANT 2										
LZ85	2X2 CEILING GRID INTEGRATED LIGHTING	LR2	2			X	64	PER FIXT.	128W	1	
LZ85	2X4 CEILING GRID INTEGRATED LIGHTING 2X4 CEILING GRID INTEGRATED LIGHTING	LR3	1 2			X	96	PER FIXT.	96W 192W	1	
LZ86 LZ86	4X4 CEILING GRID INTEGRATED LIGHTING	LR3 LR4	2			X	96	PER FIXT. PER FIXT.	192W 128W	1	
LZ87	RECESSED DOWNLIGHT	LD1	2			X	15	PER FIXT.	30W	1	
LZ88	WALL SCONCE	LS2	1			X	10	PER FIXT.	10W	1	
<mark>7-1-034 - IN</mark> LZ89	NFANT 3 2X2 CEILING GRID INTEGRATED LIGHTING	LR2	2			X	64	PER FIXT.	128W	1	
LZ89	2X4 CEILING GRID INTEGRATED LIGHTING 2X4 CEILING GRID INTEGRATED LIGHTING	LR3	1			X	96	PER FIXT.	96W	1	
LZ90	2X4 CEILING GRID INTEGRATED LIGHTING	LR3	2			X	96	PER FIXT.	192W	1	
LZ90	4X4 CEILING GRID INTEGRATED LIGHTING	LR4	1			X	128	PER FIXT.	128W	1	
LZ91	RECESSED DOWNLIGHT	LD1	2			X	15	PER FIXT.	30W	1	
LZ92	WALL SCONCE	LS2	1	T7		X	10	PER FIXT.	10W	1	
LZ93	TOILET INFANT 3 & 4	LD1	6	X			15	PER FIXT.	90W	1	
7-1-035 - IN	NFANT 4										
LZ94	2X2 CEILING GRID INTEGRATED LIGHTING	LR2	2			X	64	PER FIXT.	128W	1	
LZ94	2X4 CEILING GRID INTEGRATED LIGHTING	LR3	_1			X	96	PER FIXT.	96W	1	
LZ95	2X4 CEILING GRID INTEGRATED LIGHTING	LR3	2			X	96	PER FIXT.	192W	1	
LZ95	4X4 CEILING GRID INTEGRATED LIGHTING	LR4	1			X	128	PER FIXT.	128W	1	
LZ96	RECESSED DOWNLIGHT	LD1	2			X	15	PER FIXT.	30W	1	
LZ97	WALL SCONCE	LS2	1			X	10	PER FIXT.	10W	1	
7-1-036 - T	ODDLER 1										
LZ61	2X2 CEILING GRID INTEGRATED LIGHTING	LR2	2			X	64	PER FIXT.	128W	1	
LZ61	2X4 CEILING GRID INTEGRATED LIGHTING	LR3	1			X	96	PER FIXT.	96W	1	
LZ62	2X4 CEILING GRID INTEGRATED LIGHTING	LR3	2			X	96	PER FIXT.	192W	1	
LZ62	4X4 CEILING GRID INTEGRATED LIGHTING	LR4	1 2			X	128	PER FIXT.	128W	1	
LZ63 LZ64	RECESSED DOWNLIGHT WALL SCONCE	LD1 LS2	2			X	15	PER FIXT. PER FIXT.	30W 10W	1	
LZ65	TOILET TODDLER 1 & 2	LD1	6	X		Α	15	PER FIXT.	90W	1	
7-1-037 - To	ODDLER 2										
LZ66	2X2 CEILING GRID INTEGRATED LIGHTING	LR2	2			X	64	PER FIXT.	128W	1	
LZ66	2X4 CEILING GRID INTEGRATED LIGHTING	LR3	1			X	96	PER FIXT.	96W	1	
LZ67 LZ67	2X4 CEILING GRID INTEGRATED LIGHTING 4X4 CEILING GRID INTEGRATED LIGHTING	LR3 LR4	2			X	96	PER FIXT. PER FIXT.	192W 128W	1	
LZ68	RECESSED DOWNLIGHT	LD1	2			X	15	PER FIXT.	30W	1	
LZ69	WALL SCONCE	LS2	1			X	10	PER FIXT.	10W	1	
			•								
17-1-038 - To									4.00***		
LZ70	2X2 CEILING GRID INTEGRATED LIGHTING 2X4 CEILING GRID INTEGRATED LIGHTING	LR2	2			X	64	PER FIXT. PER FIXT.	128W	1	
LZ70 LZ71	2X4 CEILING GRID INTEGRATED LIGHTING 2X4 CEILING GRID INTEGRATED LIGHTING	LR3 LR3	2			X	96 96	PER FIXT.	96W 192W	1	
LZ71	4X4 CEILING GRID INTEGRATED LIGHTING	LR4	1			X	128	PER FIXT.	128W	1	
LZ72	RECESSED DOWNLIGHT	LD1	2			X	15	PER FIXT.	30W	1	
LZ73	WALL SCONCE	LS2	1			X	10	PER FIXT.	10W	1	
LZ74	TOILET TODDLER 3 & 4	LD1	6	X			15	PER FIXT.	90W	1	
7 1 020 - 75	ODDI ED 4										
<mark>7-1-039 - T</mark> 0 LZ75	ODDLER 4 2X2 CEILING GRID INTEGRATED LIGHTING	LR2	2			X	64	PER FIXT.	128W	1	
LZ75	2X4 CEILING GRID INTEGRATED LIGHTING 2X4 CEILING GRID INTEGRATED LIGHTING	LR2 LR3	1			X	96	PER FIXT. PER FIXT.	96W	1	
LZ76	2X4 CEILING GRID INTEGRATED LIGHTING	LR3	2			X	96	PER FIXT.	192W	1	
LZ77	4X4 CEILING GRID INTEGRATED LIGHTING	LR4	1			X	128	PER FIXT.	128W	1	
LZ78	RECESSED DOWNLIGHT	LD1	2			X	15	PER FIXT.	30W	1	
LZ79	WALL SCONCE	LS2	1			X	10	PER FIXT.	10W	1	
7-1-040 - ST	ΓORAGE										
LZ101	2X4 RECESSED	LR1	2	X			50	PER FIXT.	100W	1	
<u></u>	I	1		<u>ı </u>		1	1				
	LECTRICAL				_			_	_		
LZ103	LINEAR LED SURFACE OR SUSPENDED	A	4	X			50	PER FIXT.	200W	1	
7-1-042 - L	AUNDRY										
	AUNDRY 2X4 RECESSED	LR1	1	X			50	PER FIXT.	50W	1	
	I .		1 -			1	1			1	
7-1-043 - W	ATER HEATER										
LZ104	LINEAR LED SURFACE OR SUSPENDED	A	1	X			50	PER FIXT.	50W	1	
-	A DAMINO EXTROSPENI										
~ 0.4.4 TT	ARMING KITCHEN	I D1	2			v	50	DED EIVE	150337	1	
	2X4 RECESSED 2X4 RECESSED	LR1 LR1	3 4			X	50	PER FIXT. PER FIXT.	150W 200W	1	
LZ98	ZII I ILIVENNEE	LKI						LANTIAL.	200 **		
LZ98 LZ99	BUILDING LIGHTING										
LZ98 LZ99 XTERIOR EZ1	BUILDING LIGHTING EXTERIOR WALL SCONCE PER CIVIL DRAWINGS	SL2	18	X			52	PER FIXT.	936W	1 R	EFER TO CIVIL DRAWINGS FOR SPE
LZ98 LZ99 XTERIOR EZ1 EZ2	EXTERIOR WALL SCONCE PER CIVIL DRAWINGS EXTERIOR LIGHTING AT SIGNAGE	LX2	20	X		X	10	PER LIN. FT	200W	1 R	EFER TO CIVIL DRAWINGS FOR SPE
LZ98 LZ99 EXTERIOR EZ1 EZ2 EZ3	EXTERIOR WALL SCONCE PER CIVIL DRAWINGS EXTERIOR LIGHTING AT SIGNAGE EXTERIOR DOWNLIGHT AT ENTRY SOFFIT	LX2 LX3	20			X X	10 15	PER LIN. FT PER LIN. FT	200W 30W	1 1	
LZ98 LZ99 EXTERIOR EZ1 EZ2	EXTERIOR WALL SCONCE PER CIVIL DRAWINGS EXTERIOR LIGHTING AT SIGNAGE	LX2 LX3	20	X X X			10	PER LIN. FT	200W	1 1 1 1 R	EFER TO CIVIL DRAWINGS FOR SPE EFER TO CIVIL DRAWINGS FOR SPE EFER TO CIVIL DRAWINGS FOR SPE

GENERAL LIGHTING CONTROL NOTES:

- 1. LIGHTING CONTROL ZONE LOAD SCHEDULE IS INDICATIVE OF LIGHTING DESIGN CONTROL INTENT ONLY, ADDITIONAL ZONES MAY BE REQUIRED TO
- ACCOMMODATE MANUFACTURER INDICATED MAXIMUM WATTAGE PER ZONE. 2. COORDINATE EXACT MOUNTING LOCATIONS/HEIGHTS OF LIGHTING DEVICES AND SWITCHES WITH ARCHITECT/OWNER.
- 3. CONTRACTOR TO PROVIDE ALL INSTALLATION, WIRING, LIGHTING CONTROLS DEVICES, MOUNTING ACCESSORIES AND ALL NECESSARY REQUIRED COMPONENTS FOR SUCCESSFUL, COMPLETE AND FULLY FUNCTIONING, CODE COMPLIANT INSTALLATION.
- 4. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING ALL DEVICE QUANTITIES.
- 5. CONTRACTOR TO CONFIRM FIXTURE DIMMING DRIVER COMPATIBILITY WITH APPROVE LIGHTING FIXTURE SUBMITTALS.
- 6. COMMISSIONING AND PROGRAMMING OF THE LIGHTING CONTROL SYSTEM IS REQUIRED. PROGRAMMING OF PRESET SCENES AND DIMMING LEVELS SHALL BE UNDER THE DIRECTION OF THE ARCHITECT AND/OR LIGHTING DESIGNER AND OWNER. SYSTEM WILL BE TURNED OVER BY THE CONTRACTOR
- IN COMPLETE WORKING CONDITION. 7. CONTRACTOR TO LOCATE ALL CONTROLS EQUIPMENT ACCESSIBLE AND VENTILATED LOCATION NEAR ASSOCIATED FIXTURES
- AS PER MANUFACTURERS INSTRUCTIONS. 8. CONFIRM ALL ZONING AND LIGHTING CONTROLS VIA SHOP DRAWINGS PRIOR TO LIGHT FIXTURE AND WIRING INSTALLATION.

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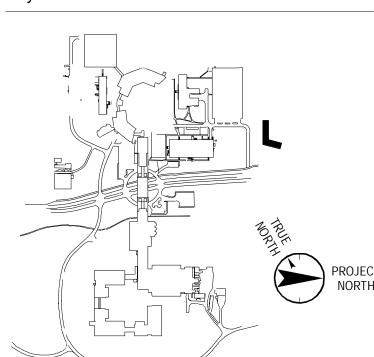
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No. Date Description

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Vendor Name: COSENTINI Vendor Project No.: 210104 Discipline: Electrical ELECTRICAL SCHEDULÉS SHEET 3

Scale: 12" = 1'-0" Floor:

	REGENERON - LIGHTING FIXTURE SCHEDULE									
TYPE	FIXTURE DESCRIPTION	LOCATION	MANUFACTURER	CATALOG NUMBER	FINISH	LAMPING				REMARKS
–		200/111011					VOLTAGE	WATTS	UNITS	Nam, u u v
A	SURFACE OR PENDANT MOUNTED LED LINEAR STRIP LIGHT WITH NOMINAL 4' LONG HOUSING, DIFFUSING LENS, AND INTEGRAL DRIVER.	GENERAL	COOPER-METALUX	INDUSTRIAL LED LINEAR BAY #4-ILED-[]-LD5-5-W-TBW-UNV- L835-CD	PER ARCHITECT	LED 3500K 5000 LM	UNV	50	PER FIXT.	FIXTURE UPDATED MODEL OF REGENERON STANDARD TYPE LT-41.
В	SURFACE MOUNTED LED VAPORTIGHT FIXTURE, WITH GUARDED DIFFUSING LENS, INTEGRAL DRIVER AND WET LOCATION RATING.	ROOF	LITHONIA	OLVTWM	PER ARCHITECT	LED 4000K 600 LM	UNV	15	PER FIXT.	
LD1	CEILING RECESSED DOWNLIGHT WITH NOMINAL 4 INCH SQUARE APERTURE AND 3.5 INCH RECESSED DEPTH, WITH DIFFUSED SOLITE LENS, 65 DEGREE BEAM, 45 DEGREE CUTOFF, INTEGRAL 0-10V DIMMABLE DRIVER.		TECH LIGHTING	ELEMENT 4" HOUSING E4PH #E4PS-F-L15-930-D-N- (INTEGRATED DRIVER 277V-01-0V CONTROL-2 & TRIM #E4PS-F-R-D-930-6-[FINISH]- [FINISH]	PER ARCHITECT	LED 3000K 1500 LM	277	15	PER FIXT.	FIXTURE UPDATED MODEL OF REGENERON STANDARD TYPE LT-56.
LD2	CEILING RECESSED AJUSTABLE DOWNLIGHT WITH NOMINAL 4 INCH SQUARE APERTURE AND 6 INCH RECESSED DEPTH, WITH DIFFUSED SOLITE LENS, 40 DEGREE BEAM, 0-40 DEGREE TILT ADJUSTMENT AND 361 DEGREE ROTATION, WITH 45 DEGREE CUTOFF, INTEGRAL 0-10V DIMMABLE DRIVER.	MAIN LOBBY	TECH LIGHTING	ELEMENT 4" HOUSING E4NGH #E4PS-F-L24-930-4-A-N- (INTEGRATED DRIVER 277V-01-0V CONTROL-2 & TRIM #E4PS-F-R-A-[FINISH]-[FINISH] & #353E4LEDCOPT-25	PER ARCHITECT	LED 3000K 1800 LM	277	24	PER FIXT.	FIXTURE UPDATED MODEL OF REGENERON STANDARD TYPE LT-56.
LP1 LP2	NOT USED. SURFACE MOUNTED LED PENDANT WITH 4.5 INCH SQUARE PROFILE X 5 INCH HIGH, WIDE BEAM 83 DEGREE OPTICS, WITH INTEGRAL 0-10V DIMMABLE DRIVER. PROVIDE WITH RIGID STEM PENDANT, LENGTH TO BE CONFIRMED.	PRE-K CLASSROOM	SPECTRUM	PICO PENDANT #C0455SQXT-[OUTPUT TO BE CONFIRMED]-30K-XW-DS10X- FG-PM-[FINISH]	PER ARCHITECT	LED 3000K 3000 LM	277V	30	PER FIXT.	ALLOW UP TO 30W EACH.
LP3	CEILING SUSPENDED LED PENDANT, WITH NOMINAL 14.5 INCH ROUND X 13 INCH HIGH CONICAL PROFILE. RECESSED CEILING JBOX REQUIRED, INTEGRAL ELV OR 0-10V DIMMABLE DRIVER REQUIRED.		TECH LIGHTING	MILO #700TDMLO-W0-LED927	PER ARCHITECT	LED 3000K 400 LM	120V	10	PER FIXT.	
LR1	CEILING RECESS MOUNTED LED TROFFER, WITH NOMINAL 2X4 HOUSING, DIFFUSING LENS AND INTEGRAL 0-10V DIMMABLE DRIVER WHERE DIMMING IS SPECIFIED.	GENERAL	AXIS LIGHTING	DIA 2X4 LED #DIALED-24-5000-80-35-VL-W- U-DP-1-[MOUNTING]	PER ARCHITECT	LED 3500K 5000 LM	UNV	50	PER FIXT.	FIXTURE UPDATED MODEL OF REGENERON STANDARD SIMILAR TO TYPE LT-62. ALLOW UP TO 50W PER FIXTURE. 3000K COLOR TEMPERATURE IS RECOMMENDED.
LR2	CEILING RECESSED LINEAR LED DOWNLIGHT INTEGRATED INTO CEILING GRIDS, WITH NOMINAL 1 INCH WIDE X 1.5 INCH HIGH PROFILE WITH DIFFUSED CONTINUOUS LENS AND REMOTE 0-10V DIMMABLE DRIVER. FIXTURE SHALL BE 2X2 SQUARE PATTERN.		ARMSTRONG/JLC-TECH	TBAR LED #TBSL-HW-[2X2 SQUARE]- [GRID]-B-A-[C] WITH REMOTE POWER SUPPLY #TBSL-DIM-HP-[100W]-UNV	PER ARCHITECT	LED 3000K 564 LM PER FT	UNV	64	PER FIXT.	POWER SUPPLIES SUBJECT TO WATTAGE AND CONTROL SYSTEM LIMITATIONS.
LR3	CEILING RECESSED LINEAR LED DOWNLIGHT INTEGRATED INTO CEILING GRIDS, WITH NOMINAL 1 INCH WIDE X 1.5 INCH HIGH PROFILE WITH DIFFUSED CONTINUOUS LENS AND REMOTE 0-10V DIMMABLE DRIVER. FIXTURE SHALL BE 2X4 RECTANGULAR PATTERN.		ARMSTRONG/JLC-TECH	TBAR LED #TBSL-HW-[2X4 RECTANGLE]- [GRID]-B-A-[C] WITH REMOTE POWER SUPPLY #TBSL-DIM-HP-[100W]-UNV	PER ARCHITECT	LED 3000K 564 LM PER FT	UNV	96	PER FIXT.	POWER SUPPLIES SUBJECT TO WATTAGE AND CONTROL SYSTEM LIMITATIONS.
LR4	CEILING RECESSED LINEAR LED DOWNLIGHT INTEGRATED INTO CEILING GRIDS, WITH NOMINAL 1 INCH WIDE X 1.5 INCH HIGH PROFILE WITH DIFFUSED CONTINUOUS LENS AND REMOTE 0-10V DIMMABLE DRIVER. FIXTURE SHALL BE 4X4 SQUARE PATTERN.		ARMSTRONG/JLC-TECH	TBAR LED #TBSL-HW-[4X4 SQUARE]- [GRID]-B-A-[C] WITH REMOTE POWER SUPPLY #TBSL-DIM-HP-[200W]-UNV	PER ARCHITECT	LED 3000K 564 LM PER FT	UNV	128	PER FIXT.	POWER SUPPLIES SUBJECT TO WATTAGE AND CONTROL SYSTEM LIMITATIONS.
LS1	SQUARE SURFACE MOUNTED DOWNLIGHT NOMINAL 4 INCH SQUARE X 0.7 INCH HIGH PROFILE AND 0.25 INCH WIDE FRAME, DIFFUSED LENS. PROVIDE WITH INTEGRAL ELV OR 0-10V DIMMABLE DRIVER WITH 277V AC INPUT.	INFANT CORRIDOR	JUNO	SLIMFORM LED #JSFSQ-5IN07LM-30K-90CRI- MVOLT-ZT-WH	PER ARCHITECT	LED 3000K 700 LM	UNV	10	PER FIXT.	
LS2	SURFACE MOUNTED LED SCONCE WITH 4.5 INCH SQUARE PROFILE X 5 INCH HIGH, WIDE BEAM 83 DEGREE OPTICS, WITH INTEGRAL 0-10V DIMMABLE DRIVER.	INFANT CLASSROOM	SPECTRUM	PICO SCONCE #C0455QXT-10L-30K-XW- DS10X-FG-WM3-[FINISH]	PER ARCHITECT	LED 3000K 1000 LM	277V	10	PER FIXT.	MOUNT FIXTURE IN COMPLIANCE WITH ALL ADA REQUIREMENTS.
LX1 LX2	NOT USED. EXTERIOR RATED RECESSED MOUNTED LINEAR LED DOWNLIGHT WITH WALLGRAZING OPTICS, NOMINAL 2.5 INCH WIDE X 4 INCH HIGH HOUSING WITH DIFFUSED SATINE CONTINUOUS LENS, AND INTEGRAL DIMMABLE DRIVER. RATED IP65 FOR EXTERIOR WET LOCATIONS.	EXTERIOR ENTRY SIGNAGE WALL	SELUX	M60 #L602-1C40-930-[A2 OR A5 OPTICS]-[MOUNTING]- [LENGTH PER DRAWINGS]-SP- U-DIM	PER ARCHITECT	LED 3000K 954 LM PER FT	UNV	10	PER LIN. FT	PROVIDE WITH INTEGRAL DIMMABLE 0-10V DRIVER AND CONTROLS.
LX3	EXTERIOR RATED CEILING RECESSED DOWNLIGHT WITH NOMINAL 4 INCH SQUARE APERTURE AND 3.5 INCH RECESSED DEPTH, WITH DIFFUSED SOLITE LENS, 65 DEGREE BEAM, 45 DEGREE CUTOFF, INTEGRAL 0-10V DIMMABLE DRIVER. RATED IP65 FOR EXTERIOR WET LOCATIONS.	EXTERIOR ENTRY VESTIBULE SOFFIT	TECH LIGHTING	ELEMENT 4" HOUSING E4PH #E4PS-F-L15-930-D-I [WET LOCATION]-(INTEGRATED DRIVER 277V-01-0V CONTROL-2 & TRIM #E4PS-F-R-D-930-6-[FINISH]- [FINISH]	PER ARCHITECT	LED 3000K 1500 LM	277	15	PER FIXT.	PROVIDE WITH INTEGRAL DIMMABLE 0-10V DRIVER AND CONTROLS.
Her	ITING NOTES:									

- 1. FOR ALL LED FIXTURES, CONTRACTOR TO PROVIDE SPECIFIED LUMEN OUTPUT AT REDUCED WATTAGE IF FIXTURE EFFICIENCY HAS IMPROVED SINCE THE PUBLISHING OF THIS DOCUMENT.
- 2. ALL LUMEN OUTPUTS INDICATED REFERENCE DELIVERED LUMENS. 3. SEE APPENDIX A OF SPECIFICATIONS BOOK FOR CORRESPONDING LIGHT FIXTURE CUTSHEETS.
- 4. ALL MANUFACTURERS OF CONTINUOUS-RUN LINEAR FIXTURES MUST SUBMIT SHOP DRAWINGS COORDINATED WITH ARCHITECTURAL DRAWINGS FOR RUN LENGTH REVIEW.
- 5. FOR ALL LUMINAIRES WHERE MOCKUPS ARE INDICATED AND FOR ALL FIXTURES WITH A TRANSLUCENT LENS OR DIFFUSER, SAMPLES OF LED FIXTURES AND DIFFUSER MATERIALS (WHERE APPLICABLE) SHALL BE REVIEWED AND APPROVED BY DESIGN TEAM PRIOR TO FABRICATION.
- 6. FOR ALL LUMINAIRES, CONTRACTOR TO CONFIRM DRIVER COMPATIBILITY WITH INSTALLED CONTROLS SYSTEM.
- 7. CONTRACTOR TO LOCATE ALL REMOTE DRIVERS IN ACCESSIBLE AND VENTILATED LOCATION NEAR ASSOCIATED FIXTURES.
- 8. ALLOW FOR MINIMUM OF 1 CONTROL ZONE PER FIXTURE TYPE FOR EACH ROOM, UNLESS OTHERWISE SPECIFIED. 9. CONTRACTOR TO CONFIRM ALL ZONING AND LIGHTING CONTROL SHOP DRAWINGS PRIOR TO LIGHT FIXTURE AND WIRING INSTALLATION.
- 10. CONTRACTOR TO PROVIDE ALL INSTALLATION, WIRING, LIGHTING CONTROLS, MOUNTING ACCESSORIES AND ALL NECESSARY REQUIRED COMPONENTS FOR SUCCESSFUL INSTALLATION.
- 11. REFER TO ARCHITECTURAL ELEVATIONS FOR FIXTURE MOUNTING AND SUSPENSION HEIGHTS. 12. FIXTURE FINISH TYPE TO BE CONFIRMED BY ARCHITECT. ANTI-MICROBIAL PAINT FINISH MAY BE REQUIRED. CLIENT TO CONFIRM SPEC REQUIREMENTS.
- 13. INSTALL ALL FIXTURES IN COMPLIANCE WITH ADA REGULATIONS AND GUIDELINES. 14. ALL FIXTURE ALTERNATES WHETHER LISTED IN THIS SCHEDULE OR PROVIDED BY OTHERS REQUIRE APPROVAL FROM OWNER/ARCHITECT/LIGHTING DESIGNER.

SITE LIGHTING SCHEDULE

TYPE	FIXTURE DESCRIPTION	LOCATION	MANUFACTURER	CATALOG NUMBER	WATTS	VOLTAGE	NOTE A7
SL1	OUTDOOR LED AREA LIGHT	SITE	LSI CORP	MRS-LED-09L-SIL-5W-30-70CRI	63	277V	WITH MOTION AND PHOTOCELL SENSOR
SL2	OUTDOOR LED WALL LIGHT	SITE	LSI CORP	XWS-LED-06L-FTW-40-80CRI	52	277V	WITH MOTION AND PHOTOCELL SENSOR
SL3	MONUMENT LIGHTING	SITE		COORDINATE LIGHTING FIXTURE TYPE WITH ARCHITECT		277V	CONTROLLED VIA TIMECLOCK ON PHOTOCELL OFF

SITEL IGHTING SCHEDULE NOTES:

- 1. FOR EXACT QUANTITY, LOCATION, AND TYPES FOR SITE LIGHTING FIXTURES, REFER TO CIVIL ENGINEERS DRAWING C-600 FOR ADDITIONAL INFORMATION.
- 2. REFER TO DETAIL 'IX' FOR SITE LIGHTING DETAIL.
- 3. ELECTRICAL CONTRACTOR SHALL PROVIDE WIRING, CONTROLS, APPURTENANCES, AND CONNECTIONS AS REQUIRED FOR A COMPLETE INSTALLATION AS PER INSTRUCTIONS ISSUED BY SYSTEM VENDOR.FINAL LOCATION FOR SITE LIGHTING FIXTURES SHALL BE COORDINATED WITH ARCHITECT.
- 4. REFER TO DRAWING E-052 FOR SITE LIGHTING PLAN.

REGENERON

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Campus Expansion Child

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Day-care Center

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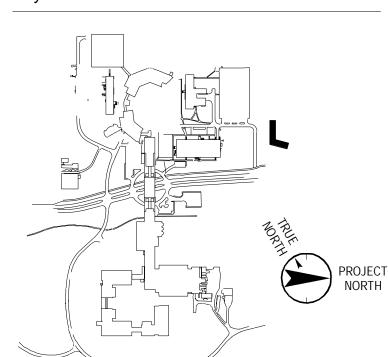
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Key Plan



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Vendor Name: COSENTINI Discipline: Électrical Drawn By: Al ELECTRICAL SCHEDULES SHEET 4

Scale: 12" = 1'-0" Floor:

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Project No. B17-DAYCARE

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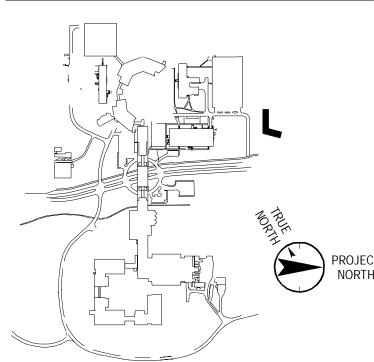
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Vendor Name: COSENTINI Vendor Project No.: 210104 Discipline: Electrical ELECTRICAL RISER DIAGRAM

Scale: 1/8" = 1'-0" Floor:

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