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Building #17
Campus Expansion Child
Day-care Center

899 Old Saw Mill River Road
Mount Pleasant, NY 10591

Project No. B17-DAYCARE

Architect

Gensler

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Structural Engineer

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MEP / IT / Security Engineer

Cosentini Associates
498 Seventh Avenue
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(212) 615-3700 Fax

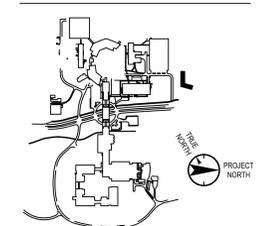
Civil Engineer

JMC
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Armonk, NY 10504
(914) 273-5225 Phone
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Landscape Architect

Langan
21 Penn Plaza, 360 West 31st Street, 8th Floor
New York, NY 10001
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Key Plan



No.	Date	Description
0	05/20/2022	ISSUED FOR PERMIT
1	06/22/2022	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
Drawn By: AI

ELECTRICAL
DETAIL SHEET 3

Scale: NTS
Floor:

E-502

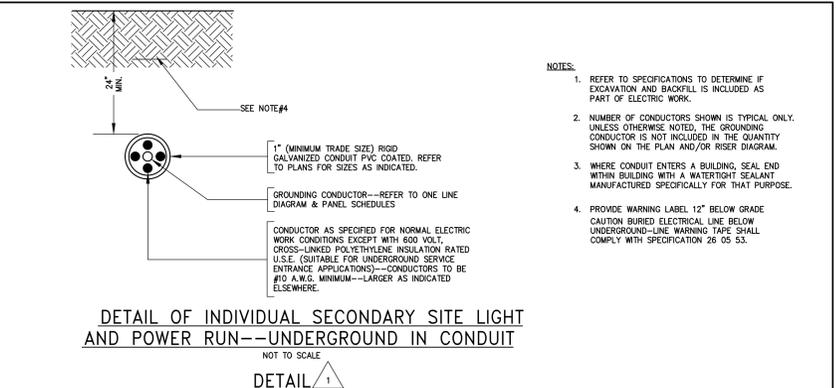
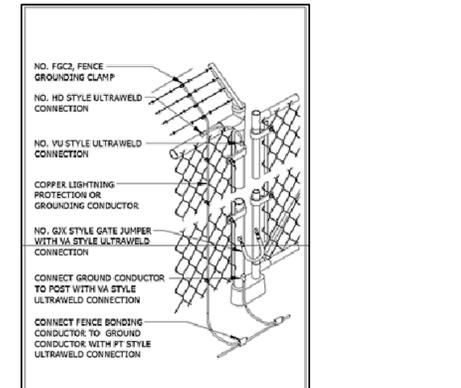
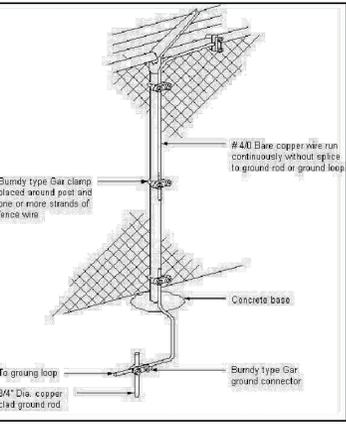
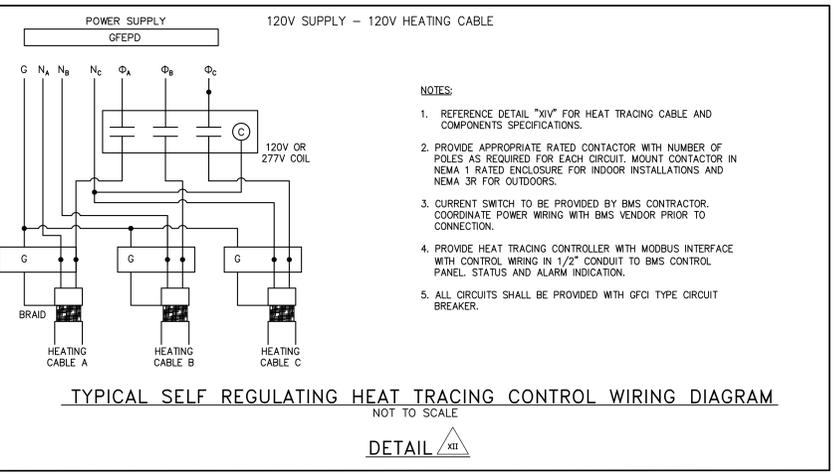
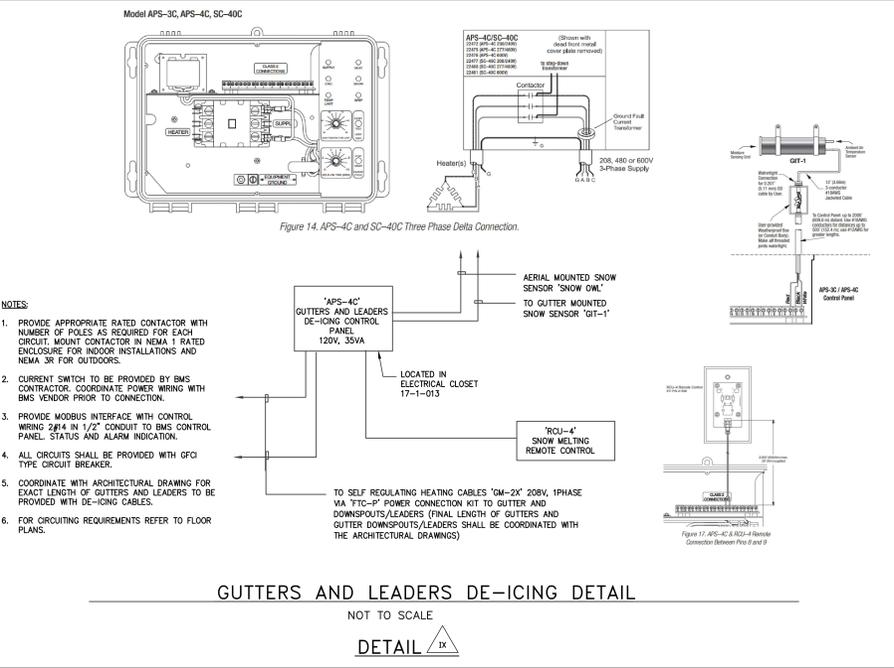
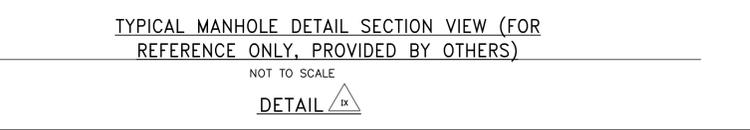
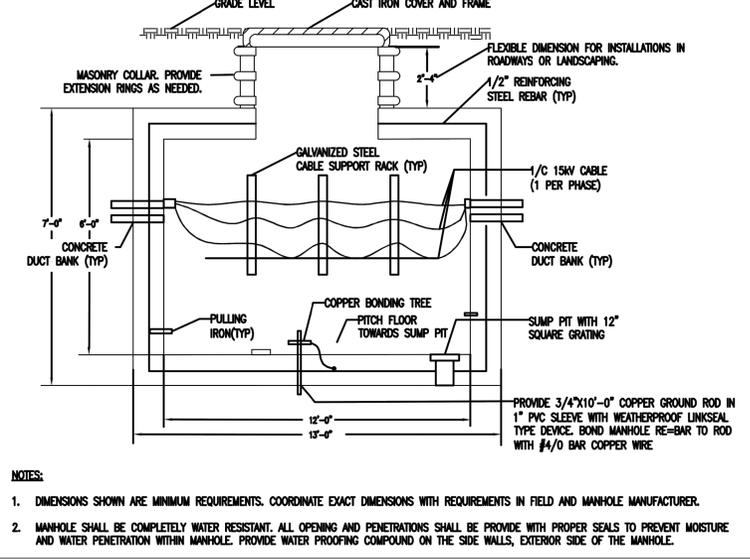
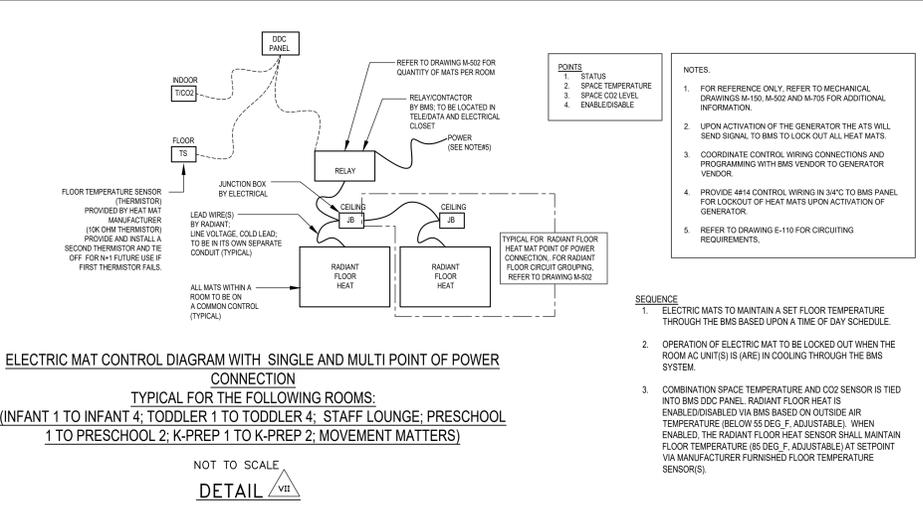
PROVIDE PIPE HEATER STRIP OF REQUIRED LENGTH, WITH ALL APPURTENANCES, AND IN ACCORDANCE WITH THE FOLLOWING:
o) BASED ON THE INDICATED OUTPUT, SELECT HEATER STRIP AND AUXILIARY COMPONENTS FOR SAME FROM THE TABLE BELOW:--

ELECTRIC OUTPUT (AT 50°F) WATTS/FT	CIRCUIT BREAKER SIZE (STARTED AT 50°F) AMPS/FT	RATED VOLTAGE VOLTS	MAXIMUM SAFE TEMPERATURE °F	MAXIMUM SAFE LENGTH FEET	IDENTIFICATION OF APPROVED COMPONENTS			
					HEATER STRIP	END SEAL	SPLICE OR TEE KIT	POWER CONNECTION KIT
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

- 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.
- 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.
- 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 WATER TIGHT ENCLOSURE.
- CONNECT INCOMING CIRCUIT THROUGH THERMOSTAT TO HEATER STRIP.
- UTILIZE 1/2" FLEXIBLE METALLIC CONDUIT TO PROTECT WIRE BETWEEN THERMOSTAT AND POINT WHERE IT CONNECTS TO HEATER STRIP.
- 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.

NOTE: A SEPARATE PIPE HEATER STRIP COMPLETE WITH THERMOSTAT AND ALL APPURTENANCES, IS REQUIRED IN CONJUNCTION 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 SAFE LENGTH.

SPECIFICATION NOTES FOR ELECTRIC PIPE TRACING -- DETAIL



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