

777 Old Saw Mill River Road  
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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

**Genler**  
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 10071  
(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

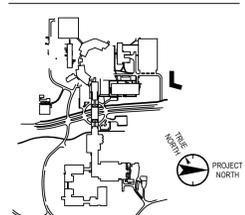
Civil Engineer

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



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

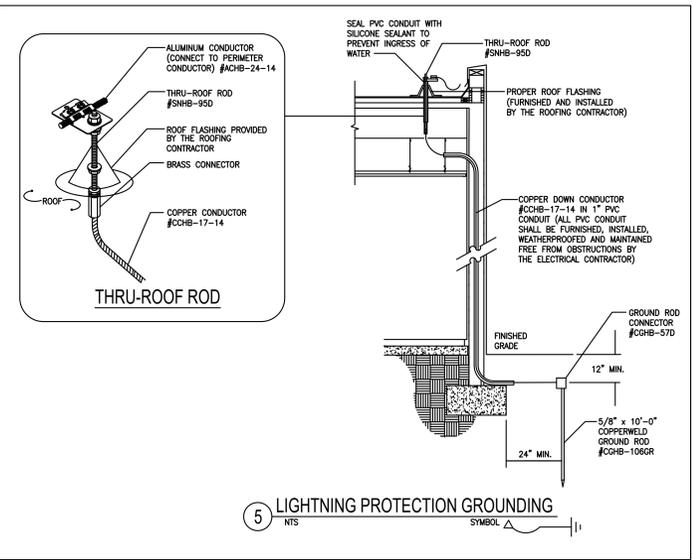
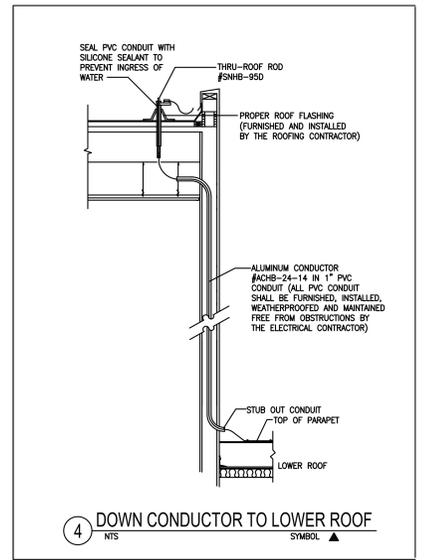
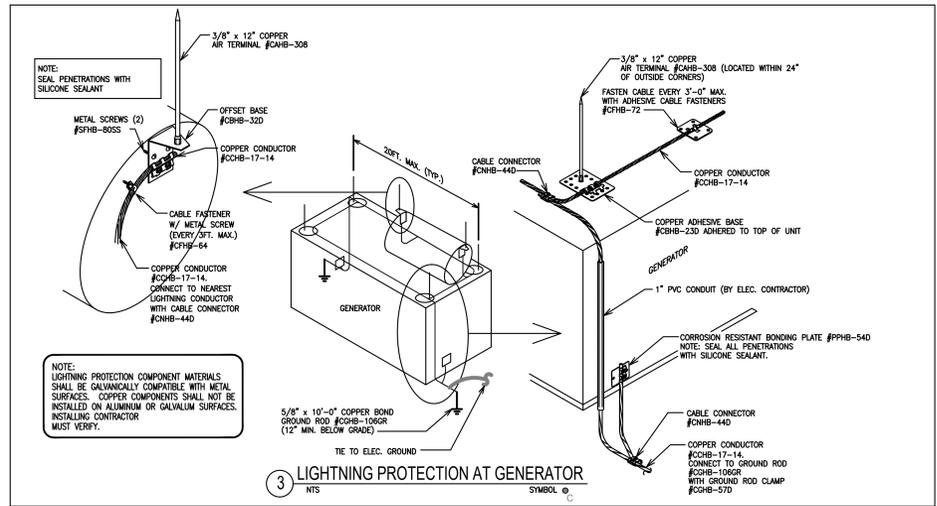
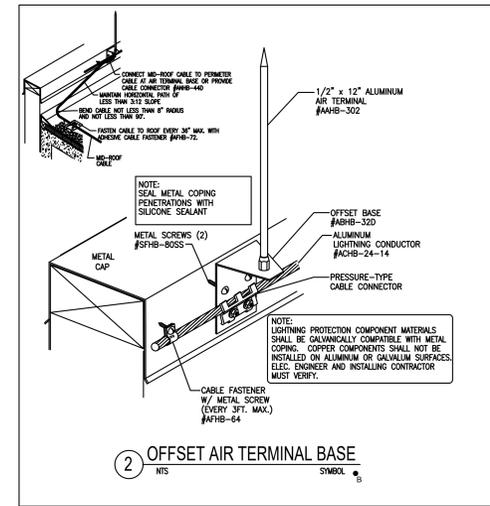
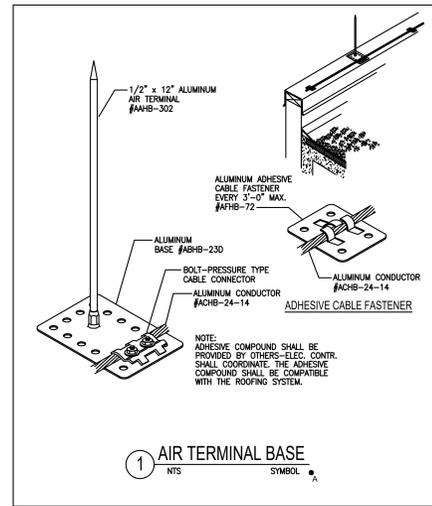
Plot Date: 07.01.2022  
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Professional Seal and Signature

Vendor Name: COSENTINI  
Vendor Project No.: 210104  
Discipline: Electrical Drawn By: AI  
**ELECTRICAL**  
**DETAIL SHEET 2**

Scale: NTS Floor:

**E-501**

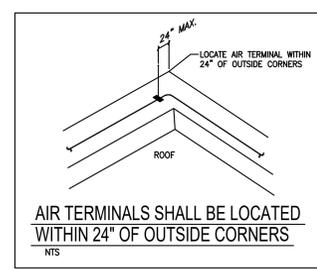
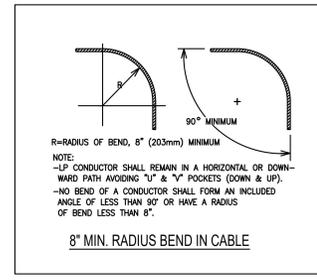
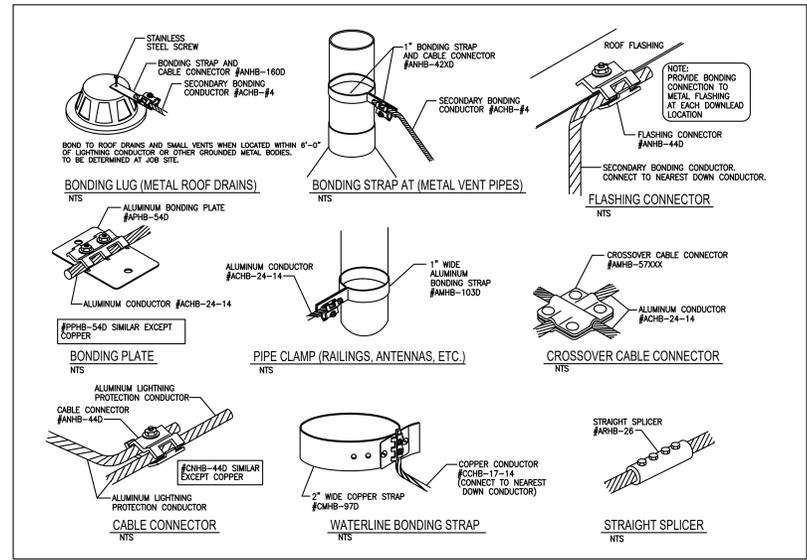


**LIGHTNING PROTECTION NOTES**

- ALL MATERIALS SHOWN ARE MANUFACTURED BY HEAVY BROS. LIGHTNING PROTECTION CO., INC.
- THE LIGHTNING PROTECTION SYSTEM AS SHOWN ON DRAWING HAS BEEN DESIGNED IN ACCORDANCE WITH UL96, UL96A & NFPA-780 LIGHTNING PROTECTION SYSTEM STANDARDS.
- CONDUCTORS SHALL MAINTAIN A HORIZONTAL OR DOWNWARD COURSE, FREE FROM "U" OR "V" (DOWN AND UP) POCKETS.
- NO BEND OF CONDUCTOR SHALL FORM AN ANGLE OF LESS THAN 90° NOR SHALL HAVE A RADIUS OF BEND LESS THAN 8".
- AIR TERMINALS SHALL BE SPACED EVERY 20'-0" MAXIMUM AROUND THE ROOF PERIMETER AND/OR ALONG ROOF RIDGES. AIR TERMINALS SHALL BE LOCATED WITHIN 2'-0" OF OUTSIDE CORNERS.
- AIR TERMINALS SHALL BE SPACED EVERY 50'-0" MAXIMUM IN CENTER ROOF AREAS.
- ACTUAL JOBSITE CONDITIONS MAY REQUIRE SLIGHT ALTERATIONS IN AIR TERMINAL, DOWN CONDUCTOR AND GROUND ROD LOCATIONS.
- BARE COPPER MATERIALS SHALL NOT BE INSTALLED ON ALUMINUM OR GALVALUM SURFACES, AND ALUMINUM MATERIALS SHALL NOT BE INSTALLED ON COPPER SURFACES.
- ALL LIGHTNING PROTECTION CONDUCTORS SHALL BE FASTENED EVERY 3'-0" MAX.
- BOND SMALL METAL BODIES OF INDUCTANCE SITUATED WITHIN 6'-0" OF A LIGHTNING CONDUCTOR OR ANOTHER BONDED METAL BODY TO THE LIGHTNING PROTECTION CONDUCTOR SYSTEM, UNLESS INHERENTLY GROUNDED.
- BOND ALL LARGE METAL BODIES TO THE LIGHTNING PROTECTION CONDUCTOR SYSTEM, (I.E. EXHAUST FANS, ROOF VENTS, METAL COOLING TOWERS, HVAC UNITS, LADDERS, RAILINGS, ANTENNAS, SKYLIGHTS, METAL STACKS, AND ANY OTHER LARGE METAL BODIES WHOSE HEIGHT EXCEEDS THAT OF ADJACENT AIR TERMINALS).
- CONNECTIONS TO GROUND RODS SHALL BE MADE AT A POINT NOT LESS THAN 1'-0" BELOW FINISHED GRADE AND 2'-0" AWAY FROM FOUNDATION WALL.
- BOND TO WATERLINES (DOMESTIC & FIRE).
- A LIGHTNING ARRESTOR, PROTECTOR OR ANTENNA DISCHARGE UNIT SHALL BE INSTALLED ON EACH ELECTRIC AND TELEPHONE SERVICE AND RADIO AND TELEVISION ANTENNA LEAD-IN BY THE ELECTRICAL CONTRACTOR, IN ACCORDANCE WITH NFPA-70.
- NO BEND OF A CONDUCTOR SHALL FORM AN INCLUDED ANGLE OF LESS THAN 90° OR HAVE A RADIUS OF BEND LESS THAN 8".
- PROVIDE UL MASTER LABEL CERTIFICATION UPON COMPLETION OF INSTALLATION.

**LIGHTNING PROTECTION MATERIALS LIST**

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	AHNB-302, ABNB-23D
1/2" x 12" ALUMINUM AIR TERMINAL AND OFFSET BASE	AAHB-302, ABNB-23D
1/2" x 12" ALUMINUM AIR TERMINAL AND ADHESIVE BASE (AT ROOF TOP EQUIPMENT)	AAHB-302, ABNB-23D
3/8" x 12" COPPER AIR TERMINAL & ADHESIVE BASE / OFFSET BASE (GENERATOR)	CHNB-308, CBNB-23D, 32D
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-430D
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-57D



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.