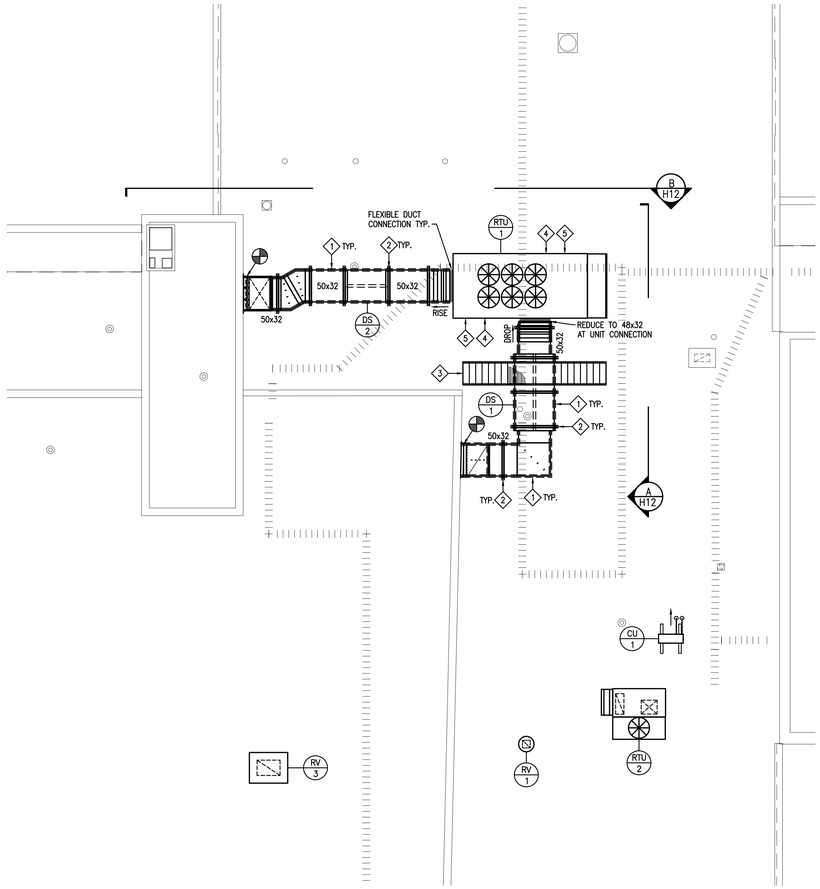
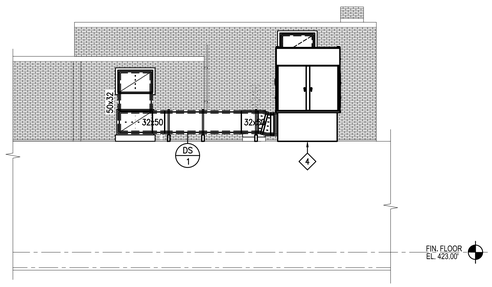


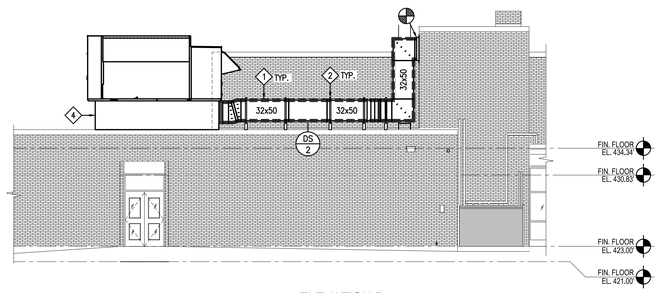
PARTIAL ROOF PLAN - AREA A - HVAC

SCALE: 1/8" = 1'-0"



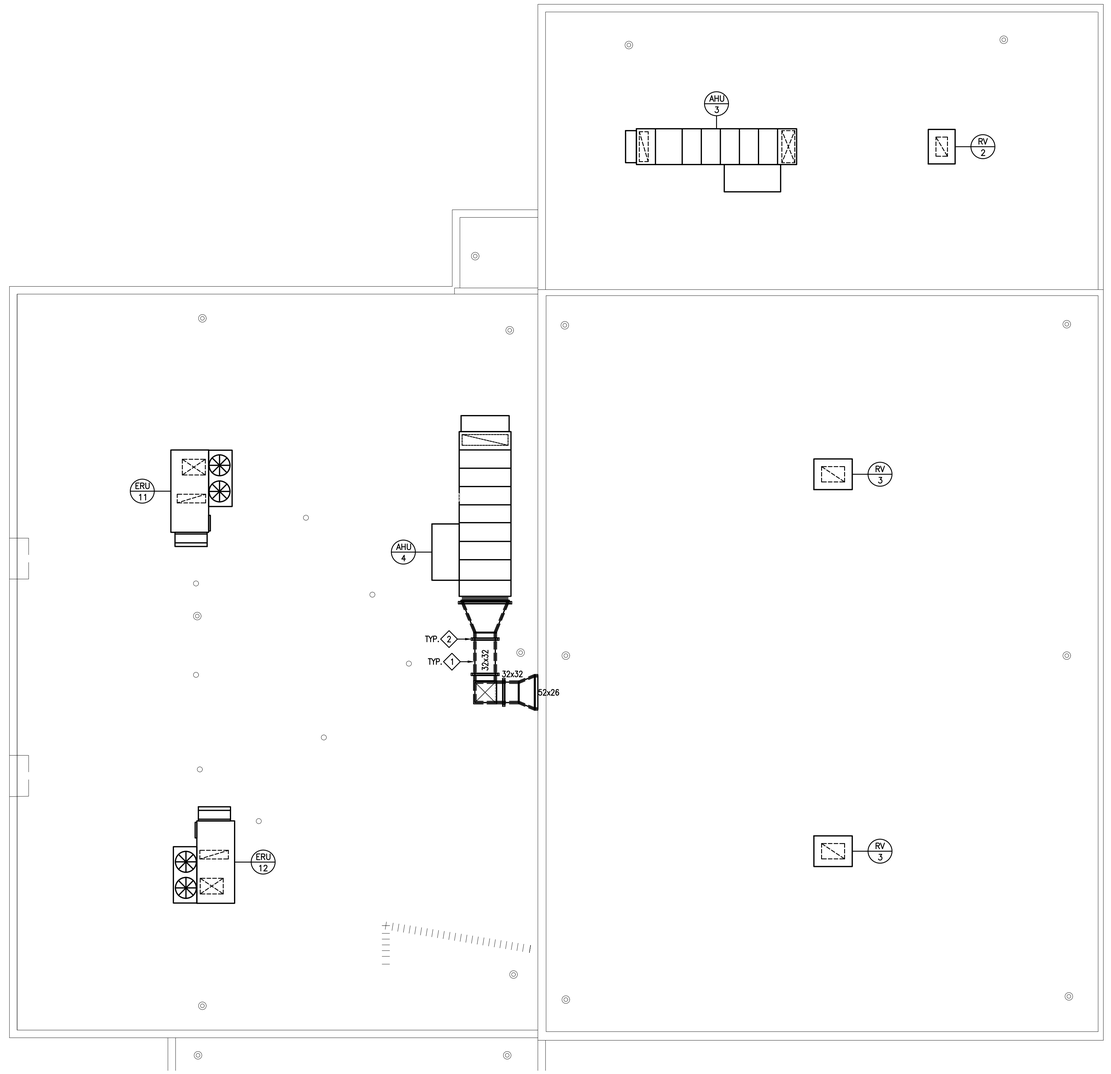
ELEVATION A

SCALE: 1/8" = 1'-0"



ELEVATION B

SCALE: 1/8" = 1'-0"



PARTIAL ROOF PLAN - AREA F - HVAC

SCALE: 1/8" = 1'-0"

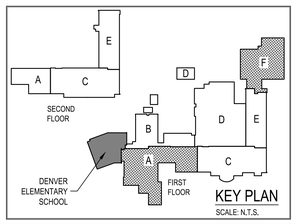
DRAWING NOTES:

1. REFER TO DRAWING H-4 FOR GENERAL PROJECT NOTES.
2. PROVIDE REQUIRED SERVICE CLEARANCES FOR ALL HVAC EQUIPMENT AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.
3. COORDINATE AND SCHEDULE ALL WORK IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS AND PHASING PLANS AS REQUIRED TO ACCOMMODATE PROJECT PHASING.
4. REFER TO PROJECT PHASING DRAWING AND SCHEDULE. PROVIDE ALL LABOR AND MATERIAL NECESSARY TO ACCOMMODATE PROJECT PHASING.
5. THE HVAC CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED TO COMPLETE ALL INDICATED WORK.
6. THE HVAC CONTRACTOR IS RESPONSIBLE FOR ALL EXCAVATION AND BACKFILLING NOT INDICATED TO BE PROVIDED BY THE GENERAL CONTRACTOR ELSEWHERE IN THE DOCUMENTS THAT IS REQUIRED TO COMPLETE ALL INDICATED HVAC WORK.
7. ALL ROOFTOP UNITS INSTALLED ON SPRING ISOLATION RAILS MUST HAVE ALL SPRING ISOLATORS LOCATED ON INTERIOR OF UNIT LOCKED DOWN.

KEYED DRAWING NOTES:

1. EXTERIOR OF DUCT TO BE COVERED WITH EXTERIOR INSULATION SYSTEM AS SPECIFIED. SUPPLY DUCTWORK IS ALSO LINED AS SPECIFIED. ALL DUCTWORK SUPPORTS MUST BE INSTALLED OVER TOP OF THE ALUMINUM JACKET WITH NO PENETRATIONS THRU THE JACKET.
2. PATE EQUIPMENT SUPPORT MODEL ES-2, WITH UNI-STRUCT FRAME TO SUPPORT AND SECURE DUCTWORK ON ALL SIDES, HEIGHT SHALL BE ADJUSTED AS REQUIRED TO KEEP DUCTWORK LEVEL, TYP.. BOTTOM OF DUCTWORK SHALL BE INSTALLED A MINIMUM OF 1'-0" ABOVE FINISHED ROOF, DROP DUCTWORK AT UNIT CONNECTION AS REQUIRED, BUT KEEP DUCTWORK AS HIGH AS POSSIBLE TO PREVENT MOISTURE INFILTRATION.
3. PROVIDE A 3'-0" W x 6'-0" LONG x HEIGHT (4" ABOVE SUPPLY DUCTWORK JACKET) PLATFORM WITH OSHA APPROVED HAND RAILS AND STAIRS. THE PLATFORM, HAND RAIL, AND STAIR ASSEMBLY SHALL BE MANUFACTURED BY PHP SYSTEM/DESIGN. THE SYSTEM SHALL BE DESIGNED TO BE INSTALLED DIRECTLY ON ROOF WITHOUT ANY ROOF PENETRATIONS. LOCATE PLATFORM AS INDICATED. COORDINATE STAIR AND PLATFORM ARRANGEMENT WITH THE ROOF MOUNTED DUCTWORK. PROVIDE A FIRESTONE TPO ROOFING MEMBRANE SLIP SHEET FOLLOWED BY A 1/4" THICK HEAVY GAUGE RUBBER WEAR PADS UNDER EACH LEG SUPPORT OF THE PLATFORM AND STAIR ASSEMBLY. THE SLIP SHEET AND RUBBER PAD SHALL BE 2" LARGER THAN THE SUPPORT BASES AS MEASURED ON EACH SIDE.
4. LINE ENTIRE INTERIOR OF PLENUM ROOF CURB WHERE-EVER SURFACES ARE EXPOSED TO EITHER SUPPLY AIR OR RETURN AIR WITH JOHNS MANFIELD LINACOUSTIC RC 3" THICK FIBERGLASS DUCT LINER WITH AN ANTI-MICROBIAL REINFORCED COATING SYSTEM ON AIR STREAM SIDE, R-VALUE OF 12.0, CONDUCTANCE OF 0.08 BTU/(HR*FT2*°F), MAX. FLAME SPREAD INDEX 25, MAX. SMOKE DEVELOPED INDEX 50, COMPLIANT WITH ASTM C1071 TYPE 1, ICC COMPLIANT, CA. TITLE 24, MEA #353-93-M, ASHRAE 62, SMACNA, NAIMA AND PROVIDE SOUND ABSORPTION COEFFICIENTS AT THE FOLLOWING CYCLES PER SECOND: 125: .047, 250: 0.96, 500: 1.17, 1000: 1.10, 2000: 1.02, 4000: 1.05, NRC: 1.05. PROVIDE METAL NOSING ON EVERY LEADING EDGE AND INSTALL USING WELDED PINS WITH CUPPED HEADS AND AS INDICATED IN THE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.
5. PROVIDE ADDITIONAL ROOF CURB SUPPLEMENTAL WOOD BLOCKING EVERY 2'-0" ON CENTER ACROSS NARROW WIDTH DIMENSION OF UNIT TO PREVENT ROOF CURB OIL CANNING.

THE HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL ELECTRICAL PANEL LOCATIONS (INSIDE ELECTRICAL AND OUTSIDE ELECTRICAL ROOMS) WITH PIPING AND DUCTWORK LAYOUTS PRIOR TO PIPING AND DUCTWORK INSTALLATION. THE HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL N.E.C. (NATIONAL ELECTRIC CODE) CLEARANCES BEFORE INSTALLING ANY PIPING AND DUCTWORK. THE HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL COSTS RESULTING TO REWORKING (REMOVING AND REINSTALLING) PIPING AND DUCTWORK INSTALLED IN CONFLICT WITH ELECTRICAL PANELS/EQUIPMENT CLEARANCES.



KEY PLAN

SCALE: N.T.S.

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PARTIAL ROOF PLANS - HVAC

RENOVATIONS TO THE COCALICO MIDDLE SCHOOL

COCALICO SCHOOL DISTRICT

SOUTH 4TH STREET, DENVER BOROUGH, LANCASTER COUNTY PA

ALL DIMENSIONS and EXISTING CONDITIONS shall be CHECKED and VERIFIED by the CONTRACTOR at the SITE.

JOB NO.: 23001.00
DRAWN BY: RLC
DATE: 04.12.24

H-12