

**Owner**

**Nanuet Union Free School District**  
101 Church Street  
Nanuet, NY 10954  
845.627.9880  
www.nanuetusd.org

**Structural Engineer**

**Clapper Structural Engineering**  
160 Partition Street  
Saugerties, NY 12477  
845.943.9801  
www.clappersstructural.com

**MEP Engineer**

**Sage Engineering Associates, LLP**  
9 Columbia Circle  
Albany, NY 12203  
518.453.6091  
www.sagegrp.com  
www.enr.com/PROFESSIONAL/NUMBER/000000

**Environmental Engineer**

**Quest Environmental Solutions**  
1376 Route 9  
Wappingers Falls, NY 12590  
845.298.6251  
www.qualityenv.com

**Construction Manager**

**Jacobs**  
One Penn Plaza  
24th Floor, Suite 2400  
New York, NY 10119  
646.908.6550  
www.jacobs.com



**NUFSD BOND PROJECTS PHASE 5 - MILLER ES**

- ☐ SED#50-01-08-03-0-002-020 (HIGHVIEW ES)
- ☐ SED#50-01-08-03-7-001-002 (Maintenance)
- ☐ SED#50-01-08-03-7-012-004 (OEC)
- ☐ SED#50-01-08-03-0-001-028 (MILLER ES)
- ☐ SED#50-01-08-03-0-004-022 (BARR MS)

**Highview Elementary School**  
24 Highview Ave  
Nanuet, NY 10954

**OEC Building**  
135 Convent Rd  
Nanuet, NY 10954

**Maintenance Building**  
103 Church St.  
Nanuet, NY 10954

**Miller Elementary School**  
50 Blauvelt Rd Unit  
Nanuet, NY 10954

**A MacArthur Barr Middle School**  
143 Church St  
Nanuet, NY 10954

**KEY PLAN**

**REVISIONS**

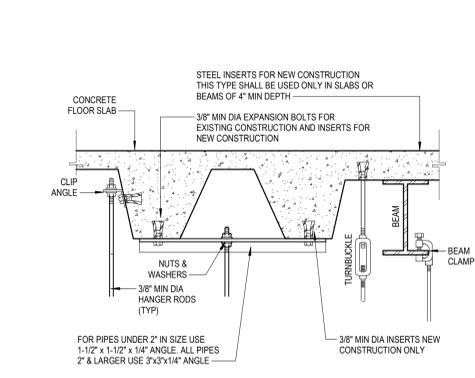
No.	Description	Date

**ISSUED: BID SET**  
**DATE:** 06/21/2024  
**SCALE:** As indicated  
**SHEET NAME:** HVAC DETAILS

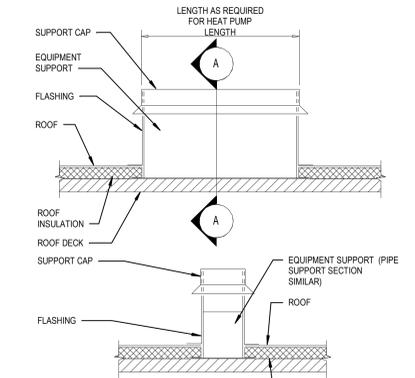
**SHEET NUMBER:**

**ME-M601**

ISSUE FOR BID SET

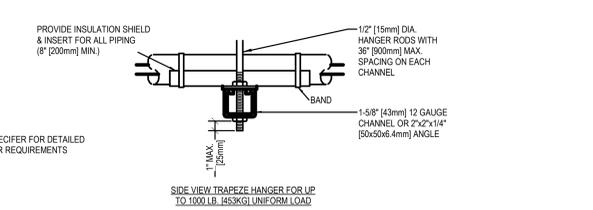
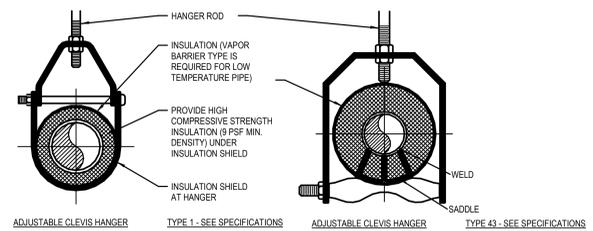


**L8 SECURING HANGER RODS DETAIL**  
NOT TO SCALE



**J4 HEAT PUMP ROOF CURB SUPPORT DETAIL**  
NOT TO SCALE

- DETAIL NOTES:**
- A. CONTRACTOR SHALL CUT BACK INSULATION AND PROVIDE FLASHING. LOCATION, SETTING AND SECURING OF CURB.
  - B. PROVIDE SHIMS WHERE REQUIRED TO LEVEL CURB.
  - C. LENGTH OF SUPPORTS AS REQUIRED FOR HEAT PUMP LENGTH. PROVIDE BLOCKING BENEATH SUPPORTS IN FLUTES OF METAL DECKS.
  - D. INSTALL HEAT PUMPS ON VIBRATION ISOLATION RAILS LOCATED ON TOP OF ROOF CURBS AS SPECIFIED IN SECTION 2381/29. PROVIDE WIND RESTRAINT PER SPECIFICATION SECTION 2381/29.
  - E. MECHANICAL CONTRACTOR SHALL CONTACT AND COORDINATE TIE-IN TO EXISTING ROOFING SYSTEMS IN ACCORDANCE WITH EXISTING ROOFING MANUFACTURER'S RECOMMENDATIONS AND WARRANTY REQUIREMENTS.

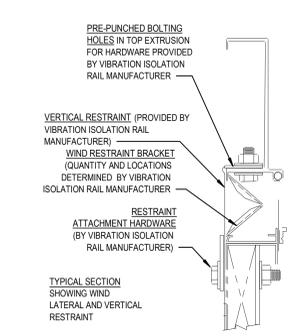


**MAXIMUM PIPE/TUBING SUPPORT SPACING**

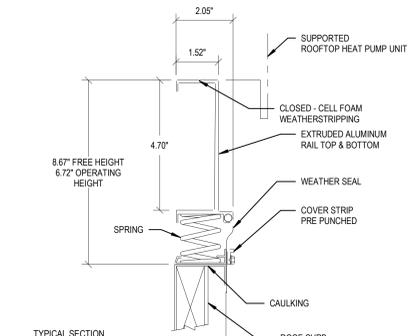
NOM. SIZE	IN. [mm]	THRU 3/4 [20]	1 [25]	1 1/4 [32]	2 [50]	2 1/2 [65]	3 [75]	4 [100]	5 [125]	6 [150]	8 [200]	10 [250]	12 [300]	14 [350]	16 [400]	18 [450]	20 [500]	24 [600]
PIPE	FT. [mm]	5 FT. [1500]	6 [1800]	7 [2100]	8 [2400]	9 [2700]	10 [3000]	12 [3600]	14 [4200]	16 [4800]	18 [5400]	20 [6000]	24 [7200]	28 [8400]	30 [9000]	32 [9600]	36 [10800]	40 [12000]
TUBING	FT. [mm]	5 FT. [1500]	6 [1800]	7 [2100]	8 [2400]	9 [2700]	10 [3000]	12 [3600]	14 [4200]	16 [4800]	18 [5400]	20 [6000]	24 [7200]	28 [8400]	30 [9000]	32 [9600]	36 [10800]	40 [12000]

NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.

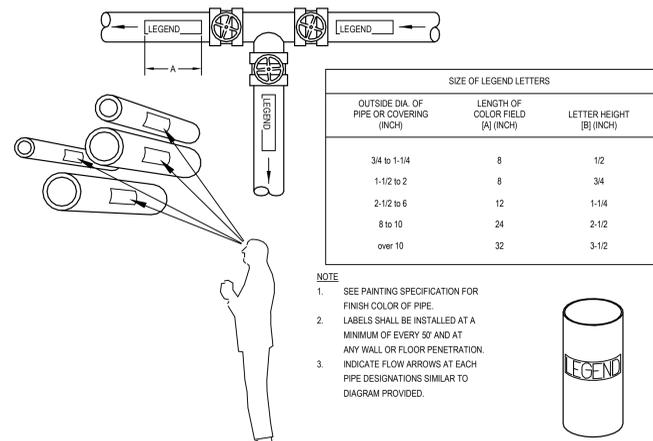
**E12 PIPE HANGERS**  
NOT TO SCALE



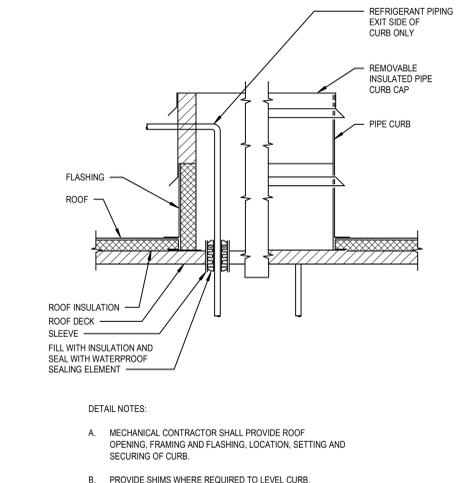
**E6 HEAT PUMP VIBRATION ISOLATION DETAIL**  
NOT TO SCALE



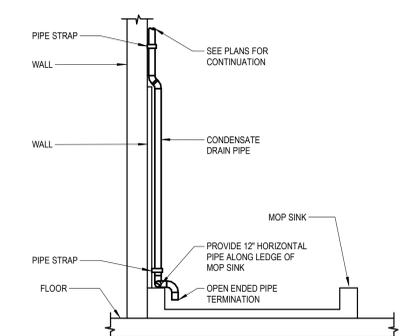
**E6 HEAT PUMP VIBRATION ISOLATION DETAIL**  
NOT TO SCALE



**A13 PIPING SYSTEM IDENTIFICATION**  
NOT TO SCALE



**A8 SIDE ENTRY REFRIGERANT PIPING CURB PENETRATION DETAIL**  
NOT TO SCALE



**A4 DRAIN TERMINATION IN MOP SINK**  
NOT TO SCALE