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CABINET UNIT HEATER SCHEDULE

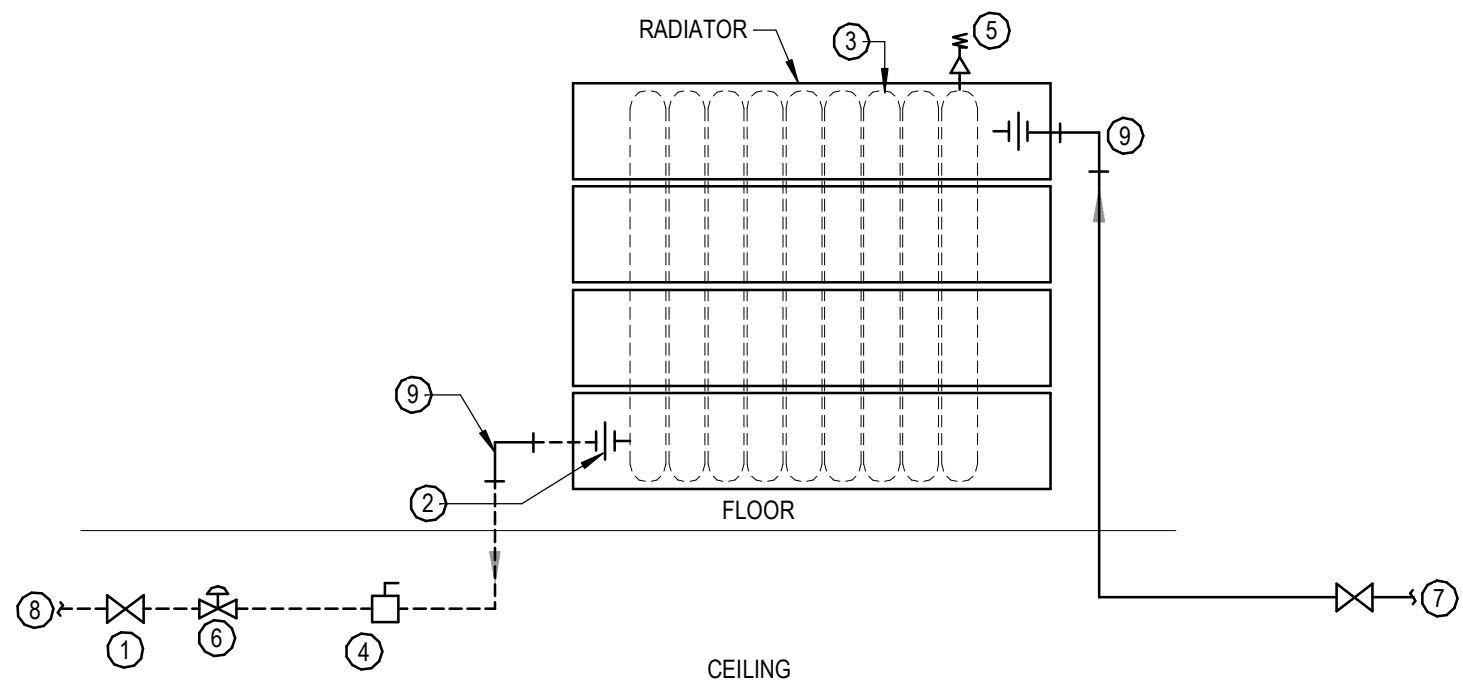
1. PROVIDE WITH ECM MOTOR WITH CONTROL BOARD, 3 SPEED SWITCH AND SERVICE SWITCH, DPST SERVICE SWITCH, AND ALUMINUM GRILLES

Mark	LOCATION	CFM	FAN MOTORS RPM	VOLTS	PH	AMPS	HP	CAPACITY (MBH)	TEMP EWT	TEMP LWT	WPD (FT)	GPM	TYPE	BASIS OF DESIGN MANUFACTURER AND MODEL	REMARKS
CUH-HE-1	LOWER LEVEL BOYS TOILET	230	1,050	120	1	0.45 A	1/15	14.0	180 °F	160 °F	0.06	0.84	RECESSED CEILING	STERLING RC-1200-02	1

HEATING WATER RADIATION SCHEDULE

1. PROVIDE WITH SAME END SERIES PIPING CONNECTIONS (SUPPLY AND RETURN CONNECTIONS ON SAME SIDE OF RADIATOR).
2. PROVIDE WITH OPPOSITE END SERIES PIPING CONNECTIONS (SUPPLY AND RETURN CONNECTIONS ON OPPOSITE SIDES OF RADIATOR).
3. PROVIDE WITH HIGH PRESSURE RATED RADIATORS.
4. PROVIDE WITH POST MOUNTS AS REQUIRED FOR FLOOR MOUNTING RADIATORS.
5. PROVIDE WITH APPROPRIATE WALL MOUNTING BRACKETS FOR WALL MOUNTING OF RADIATOR.

Mark	CAPACITY (BTUHR PER LINEAL FOOT)	AVERAGE WATER TEMP.	EAT	HEIGHT	SIZE DEPTH	FLOW RATE (GPM)	SIZE LENGTH	WATER PRESSURE DROP	FINS PER FOOT	BASIS OF DESIGN MFG. AND MODEL	REMARKS
IS-HE-1	1,141	175.0 °F	65 °F	14.38 m	2.35 m	0.680	3'-0"	0.08 Feet	32	RUNTAL UFL1-5	2.3.5
IS-HE-2	1,141	175.0 °F	65 °F	14.38 m	2.35 m	0.680	3'-0"	0.08 Feet	32	RUNTAL UFL1-5	1.3.5



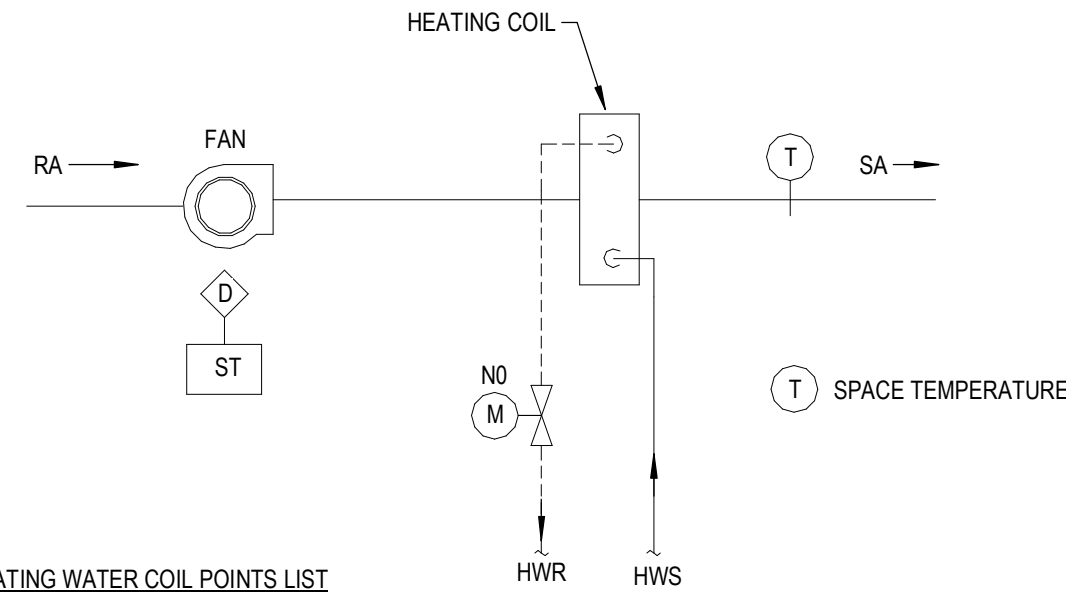
- ITEM DESCRIPTION
1. EFL ELECTRIC RESET LINK
2. CONTROL SWITCH (OPTIONAL)
3. FLEX CONDUIT
4. DAMPER FRAME
5. JUNCTION BOX
6. ACTUATOR
7. OVER CENTER LINK
8. SLEEVE
9. PFMA OR CONVENTIONAL MOUNTING ANGLES
10. SLEEVE TO DUCT CONNECTION (BY OTHERS)

NOTE:

1. DETAIL FOR PIPING TO RADIATION PIPED FROM BELOW TO OPPOSITE END CONNECTIONS ON RADIATOR.

G18 HOT WATER FLOOR RADIATION DETAIL

NOT TO SCALE

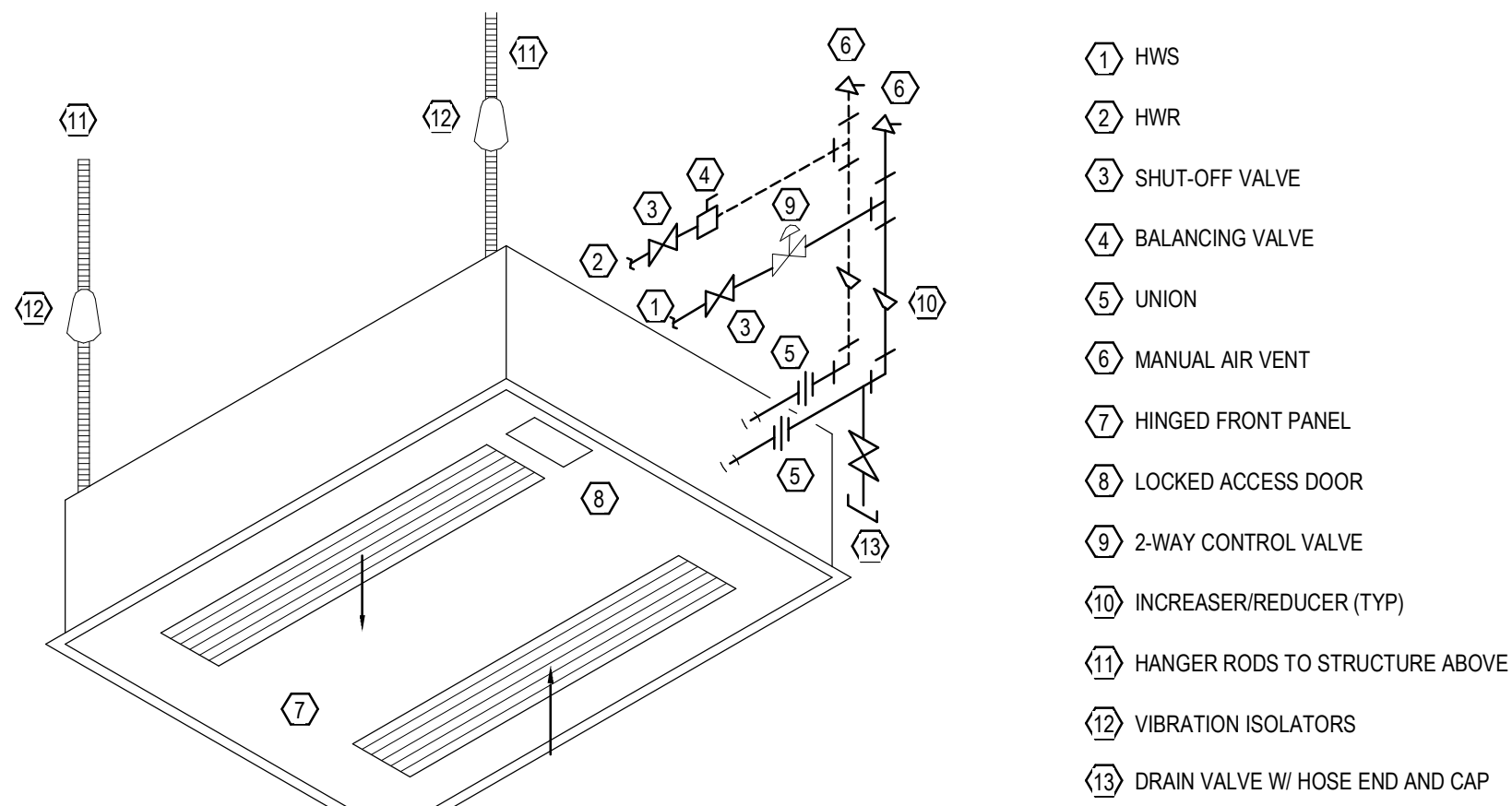


HEATING WATER COIL POINTS LIST

ITEM	DIGITAL INPUT	DIGITAL OUTPUT	ANALOG INPUT	ANALOG OUTPUT	LOCAL INTERLOCK	NOTES
2-WAY MODULATING HEATING CONTROL VALVE				X		T
SPACE TEMPERATURE			X			T, A
FAN START/STOP		X				RT, T

D18 CABINET UNIT HEATER CONTROL DIAGRAM

NOT TO SCALE



- ITEM DESCRIPTION
1. EFL ELECTRIC RESET LINK
2. CONTROL SWITCH (OPTIONAL)
3. FLEX CONDUIT
4. DAMPER FRAME
5. JUNCTION BOX
6. ACTUATOR
7. OVER CENTER LINK
8. SLEEVE
9. PFMA OR CONVENTIONAL MOUNTING ANGLES
10. SLEEVE TO DUCT CONNECTION (BY OTHERS)

A18 CEILING CABINET UNIT HEATER INSTALLATION DETAIL

NOT TO SCALE

FAN SCHEDULE

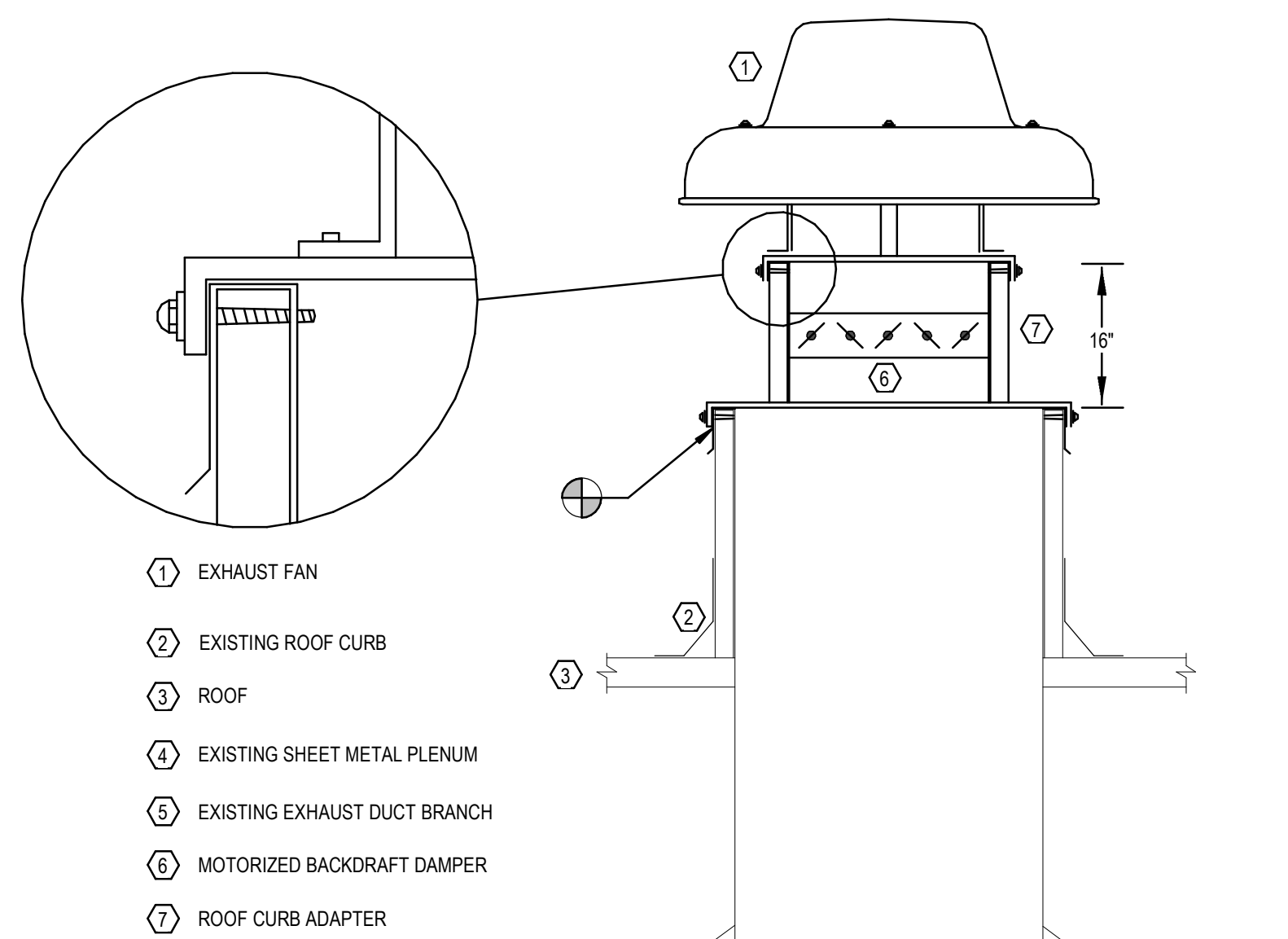
1. PROVIDE WITH UNIT MOUNTED DISCONNECT, 24-VOLT MOTORIZED BACKDRAFT DAMPER, AND ELECTRICALLY COMMUTATED FAN MOTOR THAT INCLUDES A DIAL FAN MOUNTED SPEED CONTROLLER.
2. PROVIDE FAN WITH 18" HIGH ROOF CURB ADAPTER MOUNTED TO TOP OF EXISTING ROOF CURB.
3. PROVIDE FAN WITH 18" HIGH INSULATED ROOF CURB.
4. PROVIDE WITH UNIT MOUNTED DISCONNECT SWITH AND ELECTRICALLY COMMAUTATED FAN MOTOR WITH FAN MOUNTED DIAL SPEED CONTROLLER.

Mark	LOCATION	SERVICE	TYPE	DRIVE	CFM	STATIC PRESSURE (IN WC)	MINIMUM IMPELLER DIAMETER	ELECTRICAL DATA RPM	BHP	HP	WATTS	VOLTS	PH	VFD SPEED SETTING	MIN FAN STATIC EFFICIENCY	FAN EFFICIENCY INDEX	MAXIMUM SOUND LEVEL (dBA)	TOTAL SYSTEM WEIGHT	BASIS OF DESIGN MFG. AND MODEL	REMARKS
EF-HE-1	NORTH ROOF	TOILET ROOMS	DOWNBLAST CENTRIFUGAL ROOF EXHAUST FAN	DIRECT	1,960	1.10	15.0 m	1,379	0.565	5/8		115	1		60%		66	115 lb	COOK ACE-D 150C17D (VF)	1.2
EF-HE-2	SOUTH ROOF	TOILET ROOMS	DOWNBLAST CENTRIFUGAL ROOF EXHAUST FAN	DIRECT	900	1.10	12.0 m	1,829	0.439	1/2		115	1		36%		67	20 lb	COOK 120 ACED OR81	1.3
EF-HE-3	LOWER LEVEL BOYS TOILET	LOWER LEVEL TOILET ROOMS	INLINE CENTRIFUGAL	DIRECT	555	0.80	10.0 m	1,984	0.210	1/3		115	1		33%		63	52 lb	COOK 100 SQN-D OR80	4

DIFFUSER, REGISTER AND GRILLE SCHEDULE

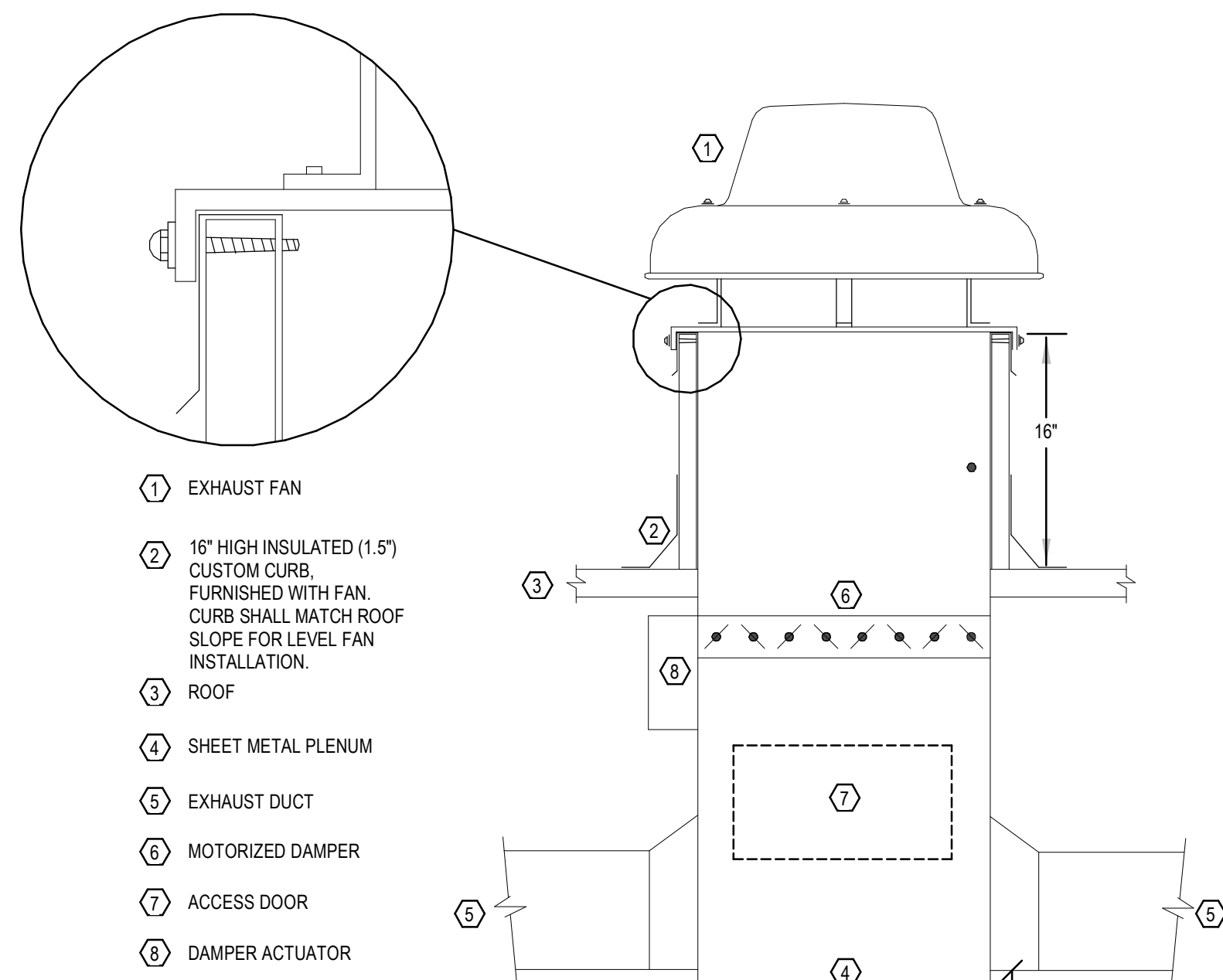
1. PROVIDE WITH ALUMINUM OPPOSED BLADE DAMPER

Mark	DESCRIPTION/PATTERN	OVERALL SIZE	DUCT CONNECTION SIZE	MOUNTING	MATERIAL	BASIS OF DESIGN MANUFACTURER AND MODEL	REMARKS
ER-HE-1	LOUVERED REGISTER, 3/4" BLADE SPACING, 45 DEGREE DEFLECTION	13-3/4"x13-3/4"	12"x12"	SURFACE	ALUMINUM	PRICE 630	1
ER-HE-2	LOUVERED REGISTER, 3/4" BLADE SPACING, 45 DEGREE DEFLECTION	7-3/4"x7-3/4"	6"x6"	SURFACE	ALUMINUM	PRICE 630	1
SD-HE-1	SQUARE CONE SA DIFFUSER, 360 DEGREE RADIAL AIR PATTERN	24"x24"	6"ø	LAY-IN	STEEL	PRICE SCD	
TG-HE-1	LOUVERED REGISTER, 3/4" BLADE SPACING, 45 DEGREE DEFLECTION	35-3/4"x65-3/4"	34"x54"	SURFACE	STEEL	PRICE S30	
TG-HE-2	LOUVERED REGISTER, 3/4" BLADE SPACING, 45 DEGREE DOUBLE DEFLECTION	35-3/4"x65-3/4"	34"x54"	SURFACE	STEEL	PRICE S10	



E8 NON-GREASE APPLICATION EXHAUST FAN DETAIL - EXISTING ROOF PENETRATION

NOT TO SCALE

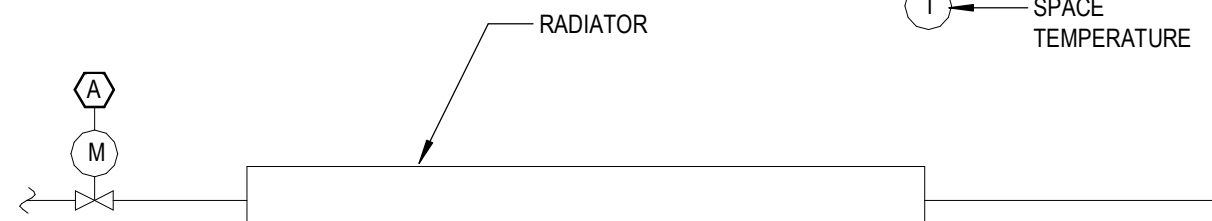
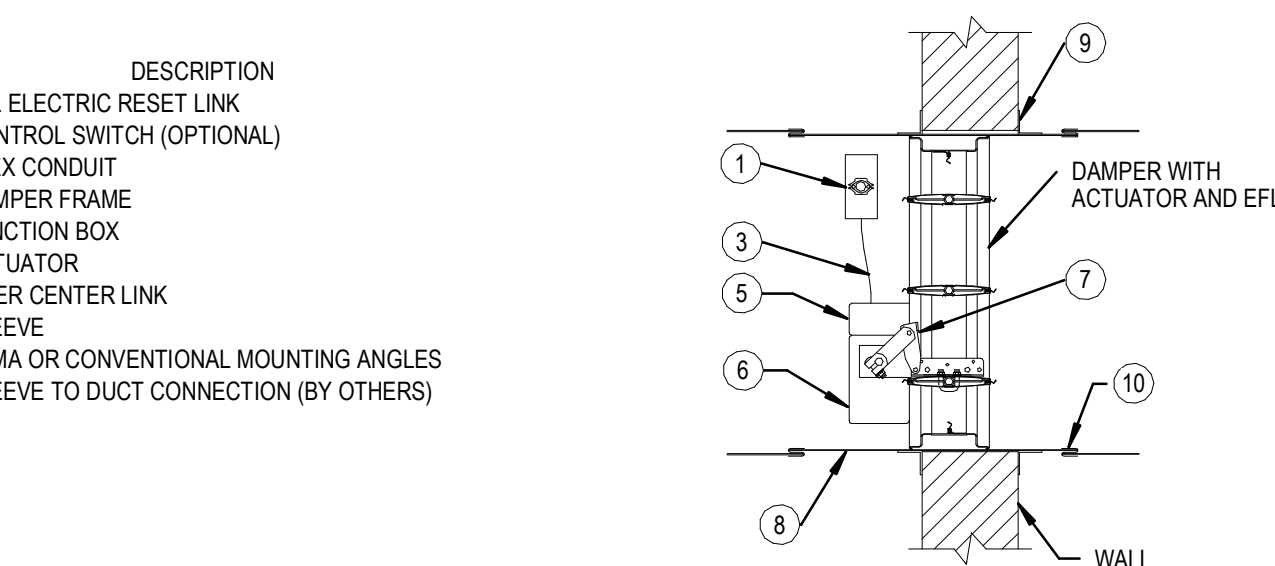


A8 NON-GREASE APPLICATION EXHAUST FAN DETAIL - NEW SINGLE ROOF PENETRATION

NOT TO SCALE

G13 ROUND COMBINATION FIRE/SMOKE DAMPER DETAIL

NOT TO SCALE

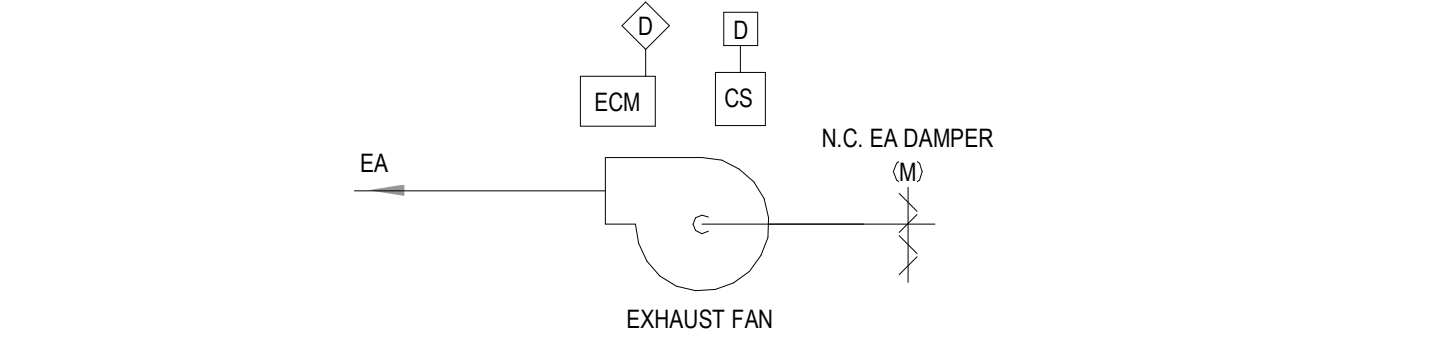


FIN TUBE RADIATION/WALL RADIATOR POINTS LIST

ITEM	DIGITAL INPUT	DIGITAL OUTPUT	ANALOG INPUT	ANALOG OUTPUT	NOTES
HEATING CONTROL VALVE				X	T
SPACE TEMPERATURE			X		T, A

D9 FLOOR HEATING RADIATION CONTROL DIAGRAM

NOT TO SCALE



KITCHEN GENERAL EXHAUST FAN F-HS-1 POINTS LIST

ITEM	DIGITAL INPUT	DIGITAL OUTPUT	ANALOG INPUT	ANALOG OUTPUT	LOCAL INTERLOCK	NOTES
FAN START/STOP		X				RT, T
FAN STATUS	X					A
EXHAUST AIR DAMPER		X				T

A13 EXHAUST FAN CONTROL DIAGRAM

NOT TO SCALE

ARCHITECT

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www.jacobs.com



NUFSD BOND PROJECT PHASE 5 - HIGHVIEW

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 MG)

Highview Elementary School
24 Highview Ave
Nanuet, NY 10954

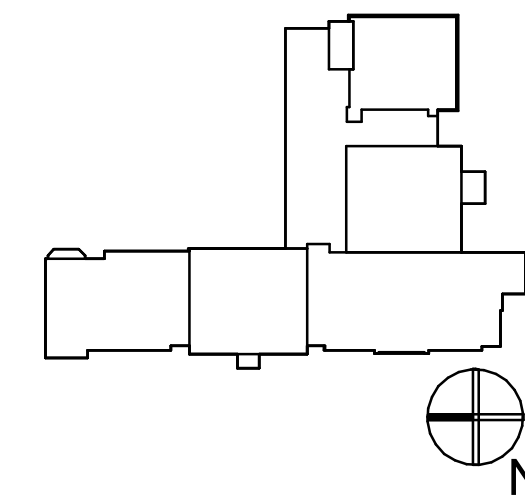
OEC Building
135 Convent Rd
Nanuet, NY 10954

Maintenance Building
103 Church St.
Nanuet, NY 10954

Miller Elementary School
50 Blauvelt Rd Unit 1
Nanuet, NY 10954

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

KEY PLAN



REVISIONS

No.	Description	Date
1	BID ADDENDUM #4	02/05/25

ISSUED: BID SET

DATE: 06/21/2024

SCALE: As indicated

SHEET NAME:
SCHEDULES, DETAILS,
AND CONTROL
DIAGRAMS

SHEET NUMBER:

HE-M002

ISSUE FOR BID SET