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WAWA
 STORE NUMBER: 5807
 1505 S. WALTON BLVD.
 BENTONVILLE, AR 72715
 CEMEX, /AL 58575
 JOB NUMBER: 42-234-0587

ISSUE BLOCK

2	REV 2	04/25/24
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 PLAN ISSUE: CNST SET



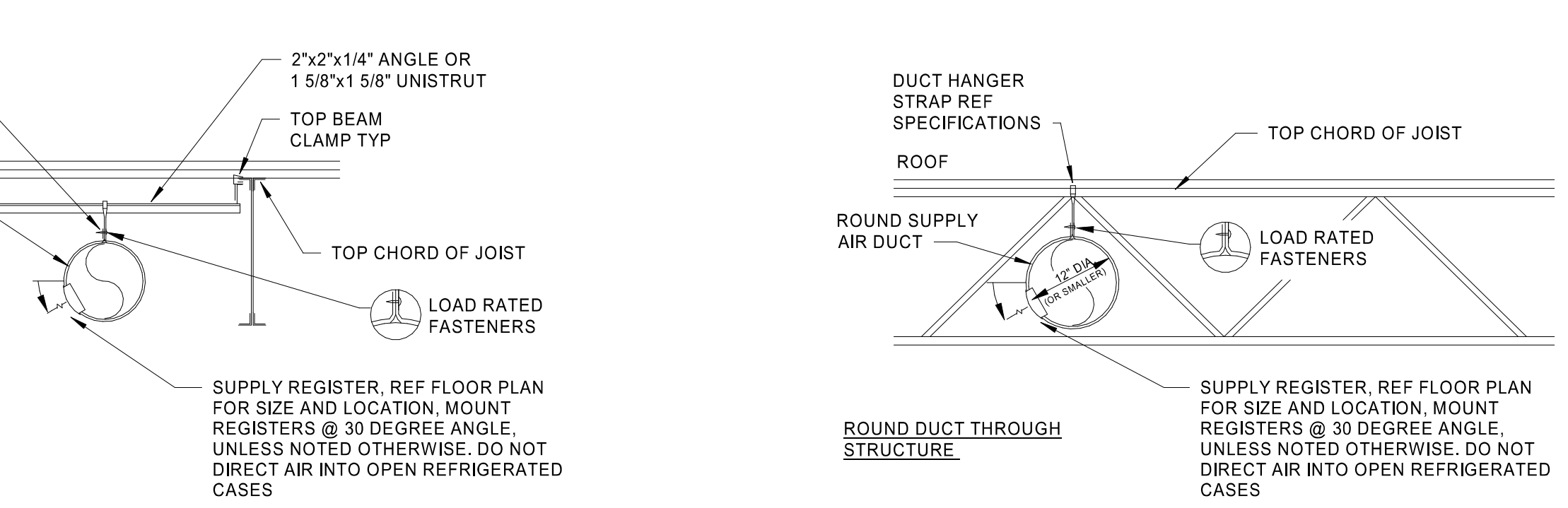
HVAC FLOOR PLAN

SHEET: M1.0

- ### KEYNOTES
- SUPPLY AND RETURN DUCT UP TO RTU ON ROOF. TRANSITION AS REQUIRED. FIELD VERIFY DUCT ROUTING PRIOR TO FABRICATION. PROVIDE FLEX CONNECTION FOR VIBRATION ISOLATION.
 - MOUNT REMOTE TEMPERATURE/HUMIDITY SENSOR IN AREA SHOWN AT 8" AFF. COORDINATE EXACT LOCATION WITH TENANT CONSTRUCTION MANAGER. THE ENTIRE CONTROL SYSTEM SHALL BE PROVIDED COMPLETE IN EVERY RESPECT BY THE MECHANICAL CONTRACTOR.
 - WALL MOUNTED CO2 SENSOR TO RTU-2. SENSOR TO MONITOR CO2 LEVELS THROUGH REMOTE BAS. SENSOR BY WAWA/BAS VENDOR.
 - EXHAUST DUCT ROUTED TO FAN ON ROOF. COORDINATE ROUTING OF DUCT WITH ALL DISCIPLINES. PROVIDE TRANSITIONS AND FITTINGS AS REQUIRED.
 - PROVIDE A CABINET STYLE EXHAUST FAN. EXHAUST DUCT SHALL BE GALVANIZED STEEL. PROVIDE SIDEWALL VENT WITH SCREEN AND FLAPPER DAMPER. GROUND MODEL 345 OR EQUAL. EXHAUST FAN SHALL MAINTAIN 10" CLEARANCE FOR ANY OUTSIDE AIR INTAKE. MUST MEET LOCAL CODE REQUIREMENTS. FIELD VERIFY ALL ROUTING AND REQUIREMENTS PRIOR TO BID. SEAL ALL PENETRATION WEATHER TIGHT. PRE-PAINT VENT COVER TO MATCH SIDING.
 - HVAC UNIT MANUFACTURER TO PROVIDE 120V SMOKE DETECTORS FOR SUPPLY AND RETURN WITH AUXILIARY CONTACTS AS SHOWN. UPON ACTIVATION, THE SMOKE DETECTORS SHALL SHUT DOWN THE AIR DISTRIBUTION SYSTEM TO WHICH IT IS CONNECTED AND ACTIVATE A VISIBLE AND AUDIBLE SUPERVISORY SIGNAL AT A CONSTANTLY ATTENDED LOCATION VIA THE SPRINKLER/FIRE ALARM PANEL. SMOKE DETECTORS SHALL ALSO BE FURNISHED WITH WALL MOUNTED REMOTE TEST STATION WITH KEYS RESET. REMOTE SD TEST SUPERVISORY SIGNAL SHALL BE LED TYPE WITH AUDIBLE BEEPING ALERT.
 - PROVIDE MCGILL AIRFLOW'S DOUBLE-WALL INSULATED SPIRAL DUCT OR EQUAL (MCGILL 614/629/1200). REFERENCE DRAWINGS FOR MOUNTING HEIGHT. PROVIDE DUCT AND FITTINGS WITH SLIP JOINT CONNECTION TYPE. FLANGE-TO-FLANGE CONNECTION TYPES ARE NOT ALLOWED.
 - PROVIDE REMOTE TEST STATION FOR SMOKE DETECTORS WITH AUDIBLE AND VISUAL ALARM WITH KEYS RESET. MOUNT TEST STATION 48 INCHES AFF. MOUNT AUDIBLE AND VISUAL ALARM IN CONSTANTLY ATTENDED LOCATION. CONSTANTLY ATTENDED LOCATION IS NOT REQUIRED WHERE DUCT SMOKE DETECTOR ACTIVATES THE BUILDING'S ALARM SYSTEM.
 - ROUTE DUCTWORK AS HIGH AS POSSIBLE PARALLEL TO STRUCTURE. REF 2-M1.0 TYP.
 - ROUTE DUCTWORK WITHIN THE JOIST SPACE. COORDINATE THRU WEBBING. REF 3-M1.0 TYP.

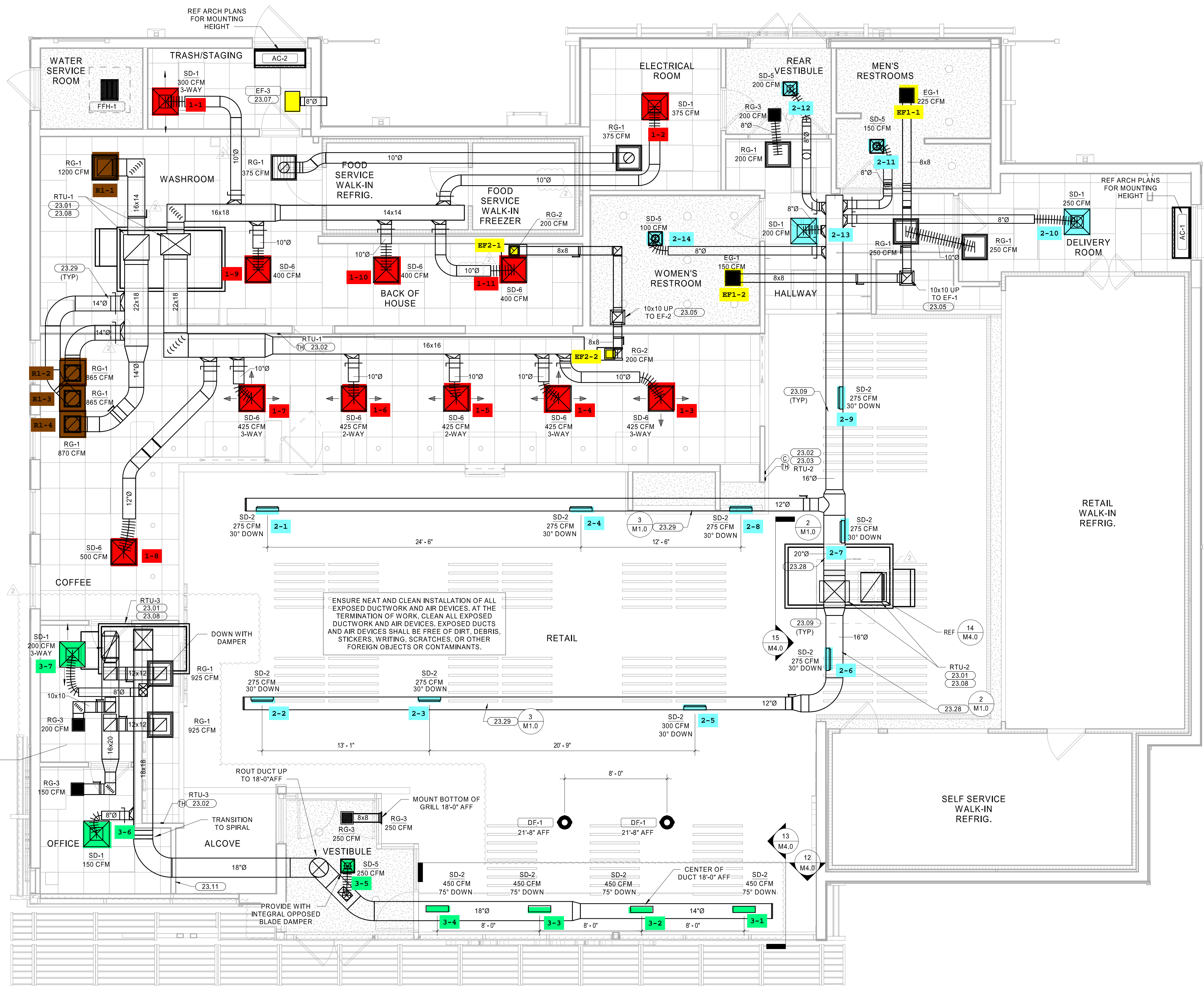
HVAC LEGEND

SYMBOL	DESCRIPTION
	NEW RECTANGULAR OR ROUND DUCT
	FLEXIBLE DUCT
	SUPPLY AIR DUCTWORK UP THROUGH PLAN
	RETURN AIR DUCTWORK UP THROUGH PLAN
	EXHAUST AIR DUCTWORK UP THROUGH PLAN
	90° ELBOW WITH TURNING VANES
	MANUAL AIR VOLUME CONTROL DAMPER
	4 WAY SUPPLY DIFFUSER
	3 WAY SUPPLY DIFFUSER
	2 WAY OPPOSED SUPPLY DIFFUSER
	2 WAY CORNER SUPPLY DIFFUSER
	RETURN AIR DEVICE
	EXHAUST AIR DEVICE
	AIR CURTAIN
	LINEAR SLOT DIFFUSER WITH PLENUM
	COMBINATION TEMPERATURE/HUMIDITY SENSOR
	TEMPERATURE SENSOR
	CO2 SENSOR
	TYPE MARK XXX CFM
	MECHANICAL EQUIPMENT TAG
	CONDENSATE PIPING
	ROOF MOUNTED EXHAUST FAN
	INLINE EXHAUST FAN
	PACKAGED ROOFTOP AIR CONDITIONER



2 EXPOSED DUCT SUPPORT AND GRILLE
 M1.0 NTS

3 EXPOSED DUCT SUPPORT AND GRILLE
 M1.0 NTS



1 HVAC FLOOR PLAN
 1/4" = 1'-0"

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 M1.0-HVAC FLOOR PLAN REV 2

PACKAGED ROOFTOP UNIT SCHEDULE																								
MARK	AREA SERVED	BASIS OF DESIGN		FAN				DIRECT EXPANSION COOLING				ELECTRICAL HEATING				ELECTRICAL DATA								
		MANUFACTURE	MODEL	NOMINAL CAPACITY (TONS)	SUPPLY AIRFLOW (CFM)	OUTSIDE AIRFLOW (CFM)	EXT. SP (IN. WG)	NOM. MOTOR	ENTERING AIR		LEAVING AIR		TOT. CAPACITY (BTUH)	SENS. CAPACITY (BTUH)	EER	ENT. AIR DB (°F)	LVG. AIR DB (°F)	KW INPUT	VOLTS	PHASE	MCA (AMPS)	MCCP (AMPS)	WEIGHT (LBS)	NOTES
RTU-1	BACK OF HOUSE	LENNOX	LCT150H4E	12.5	4500	700	0.70	3.75	80.0	67.0	58.2	56.4	134100	91900	11	0.0	0.0	0	208	3	63	80	1644	1-13
RTU-2	SALES	LENNOX	LCT102H4E	8.5	3400	380	1.00	3.75	80.0	67.0	58.4	57.2	96200	71000	12.1	60.3	77.0	23	208	3	63	80	1495	1-13
RTU-3	FRONT OF HOUSE	LENNOX	LCT072H4E	6.0	2400	200	0.50	1	80.0	67.0	57.0	56.8	70100	53100	12.2	62.6	84.9	23	208	3	68	70	865	1-13

NOTES:

- FURNISHED BY WAWA, INSTALLED BY GC.
- INCLUDE CO2 SENSOR FOR RTU2 ONLY. SENSOR TO BE INTERLOCKED WITH BAS.
- INCLUDE HUMIDITROL HOT GAS REHEAT.
- INCLUDE REMOTE WALL MOUNTED COMBINATION TEMPERATURE/HUMIDITY SENSOR.
- INCLUDE WITH 2" FACTORY PLEATED MERV 8 FILTERS.
- INCLUDE WITH 18" ROOF CURB.
- INCLUDE WITH FACTORY INSTALLED HACR CIRCUIT BREAKERS AND DISCONNECT.
- INCLUDE WITH FACTORY INSTALLED 15A GFCI SERVICE OUTLET, EC TO PROVIDE FIELD WIRING.
- INCLUDE WITH FACTORY INSTALLED DISCONNECT.
- INCLUDE WITH FACTORY INSTALLED SINGLE ENTHALPHY CONTROLLED ECONOMIZER AND UNIT POWERED EXHAUST FAN.
- INCLUDE WITH FACTORY INSTALLED DIRTY FILTER SWITCH.
- INCLUDE WITH FACTORY INSTALLED DRAIN PAN OVERFLOW SWITCH.
- INCLUDE WITH FACTORY INSTALLED SUPPLY AND RETURN SMOKE DETECTORS.

AIR CURTAIN SCHEDULE										
MARK	MANUFACTURER	MODEL	AREA SERVED	FAN MOTORS			FLA	HEAT INPUT (KW)	WEIGHT (LB)	NOTES
				HP	V	PH				
AC-1	POWERED AIRE	BCE-1-48	DELIVERY ROOM	0.5 hp	120	1	7.3	0	99	1,2,3,4
AC-2	POWERED AIRE	BCE-1-48	TRASH STAGING	0.5 hp	120	1	7.3	0	99	1,2,3,4

NOTES:

- PROVIDED BY GC.
- MOUNT INSIDE BUILDING ABOVE DOOR.
- PROVIDE ALL NECESSARY MOUNTING BRACKETS AND ACCESSORIES.
- PROVIDE WITH MODEL SM-300 COMMERCIAL MAGNETIC REED DOOR SWITCH, ENERGIZE EXHAUST FAN ON WHEN DOOR IS OPEN.

EXHAUST FAN SCHEDULE										
MARK	AREA SERVED	MANUFACTURER	MODEL	DESIGN AIRFLOW (CFM)	EXT. SP. (IN-WG)	VOLTS	PHASE	HP	WEIGHT	NOTES
EF-2	BACK OF HOUSE	GREENHECK	GB-098-6	400	0.38	120	1	0.167	59	1,2,3,4,5
EF-3	TRASH ROOM	GREENHECK	SP-B200	200	0.50	120	1	0.167	14	1,2,4,5

NOTES:

- PROVIDED BY GC.
- PROVIDE DISCONNECT SWITCH.
- PROVIDE 12" HIGH PREFABRICATED INSULATED ROOF CURB.
- MECHANICAL CONTRACTOR TO PROVIDE EXHAUST FAN, & WIRED SPEED CONTROLLER.
- WIRE FOR CONTINUOUS OPERATION.

AIR DEVICE SCHEDULE							
TYPE	SERVICE	MFG	MODEL	STYLE	MOUNTING	FACE SIZE	NOTES
EG-1	EXHAUST	PRICE	630FF	LOUVERED GRILLE	SURFACE	12x12	4
RG-1	RETURN	PRICE	630FF	LOUVERED GRILLE	LAY-IN	24x24	4
RG-2	RETURN	PRICE	630FF	LOUVERED GRILLE	LAY-IN	24x12	4
RG-3	RETURN	PRICE	630FF	LOUVERED GRILLE	REF. PLANS	12x12	4
SD-1	SUPPLY	PRICE	AMD	MODULAR LOUVERED FACE DIFFUSER	LAY-IN	24x24	1,6
SD-2	SUPPLY	PRICE	SDGE	SPIRAL DUCT MOUNTED GRILLE	DUCT	20x4	7,8,9
SD-5	SUPPLY	PRICE	AMD	MODULAR LOUVERED FACE DIFFUSER	SURFACE	12x12	5,6
SD-6	SUPPLY	PRICE	AMD	MODULAR LOUVERED FACE DIFFUSER	LAY-IN	24x24	1,6,10

NOTES:

- FOR LAY-IN CEILING PROVIDE WITH 18"X18" FULL FACE APPEARANCE DIFFUSER NECK. PROVIDE WITH FACTORY SQUARE TO ROUND NECK ADAPTER MODEL "SR". ROUND NECK SIZE SHALL BE EQUAL TO FLEX SIZE SERVING DIFFUSER.
- NOT USED.
- NOT USED.
- HINGE PREFERRED - "QR" STYLE (1/4 TURN FASTENERS) NOT ACCEPTABLE. FILTER TYPE RETURN GRILLS PROVIDED SOLELY FOR MAINTENANCE PURPOSES. OMIT FILTER UPON INSTALLATION.
- PROVIDE WITH TYPE 6 BEVELED SURFACE MOUNT FRAME AND FACTORY SQUARE TO ROUND NECK ADAPTER MODEL "SR".
- PROVIDE WITH BACKPAN INSTALLATION.
- PROVIDE WITH DOUBLE DEFLECTION TURNING VANES.
- PROVIDE WITH INTEGRAL OPPOSED BLADE DAMPER.
- COLOR: SILVER.
- PROVIDE WITH ADJUSTABLE PATTERN DEFLECTOR. PROVIDE WITH 12"X12" DIFFUSER NECK. PROVIDE WITH FACTORY SQUARE TO ROUND NECK ADAPTER MODEL "SR". ROUND NECK SIZE SHALL BE EQUAL TO FLEX SIZE SERVING DIFFUSER.

DESTRATIFICATION FAN SCHEDULE								
MARK	MANUFACTURER	MODEL	AREA SERVED	VOLTS (V)	PHASE	FLA (A)	WEIGHT (LBS)	NOTES
DF-1	AIRURS	A-10-SP-SH-120-X	RETAIL	120	1	0.14	7	1,2,3,4

NOTES:

- PROVIDED BY GC.
- PROVIDE ALL NECESSARY MOUNTING BRACKETS AND ACCESSORIES.
- PROVIDE WALL MOUNTED SPEED CONTROL, 4 STEP SPEED CONTROL ON/OFF MODEL TRIAC-120-1.5.
- COLOR: WHITE.

ELECTRICAL UNIT HEATER SCHEDULE							
MARK	MANUFACTURER	MODEL	AREA SERVED	ELECTRICAL DATA		HEATING INPUT (KW)	NOTES
				V	PH		
FFF-1	QMARK	EFF-1500	WATER SERVICE	125.5 A	120	1	1,5

NOTES:

- PROVIDED BY GC.
- COORDINATE MOUNTING FRAME TYPE WITH ARCHITECTURAL DRAWINGS.
- PROVIDE FACTORY ACCESSORIES AS REQUIRED FOR CORRECT CEILING-TYPE INSTALLATION.
- PROVIDE WITH INTERNAL DISCONNECT SWITCH, FACTORY FAN DELAY SWITCH, FACTORY HIGH TEMPERATURE CUTOFF SWITCH, AND INTEGRAL THERMOSTAT.

CONTROL SEQUENCE OF OPERATIONS: RTU (ELECTRIC)

RTU SEQUENCE OF OPERATION

24 HOUR CYCLE - COOLING

- SUPPLY AIR FAN SHALL RUN CONTINUOUSLY.
- OUTSIDE AIR DAMPER SHALL BE IN MINIMUM POSITION.
- RESTROOM EXHAUST FANS SHALL BE ENERGIZED (24/7).
- THERMOSTAT SHALL CYCLE COMPRESSOR(S) TO MAINTAIN ROOM SET TEMPERATURE.

24 HOUR CYCLE - HEATING

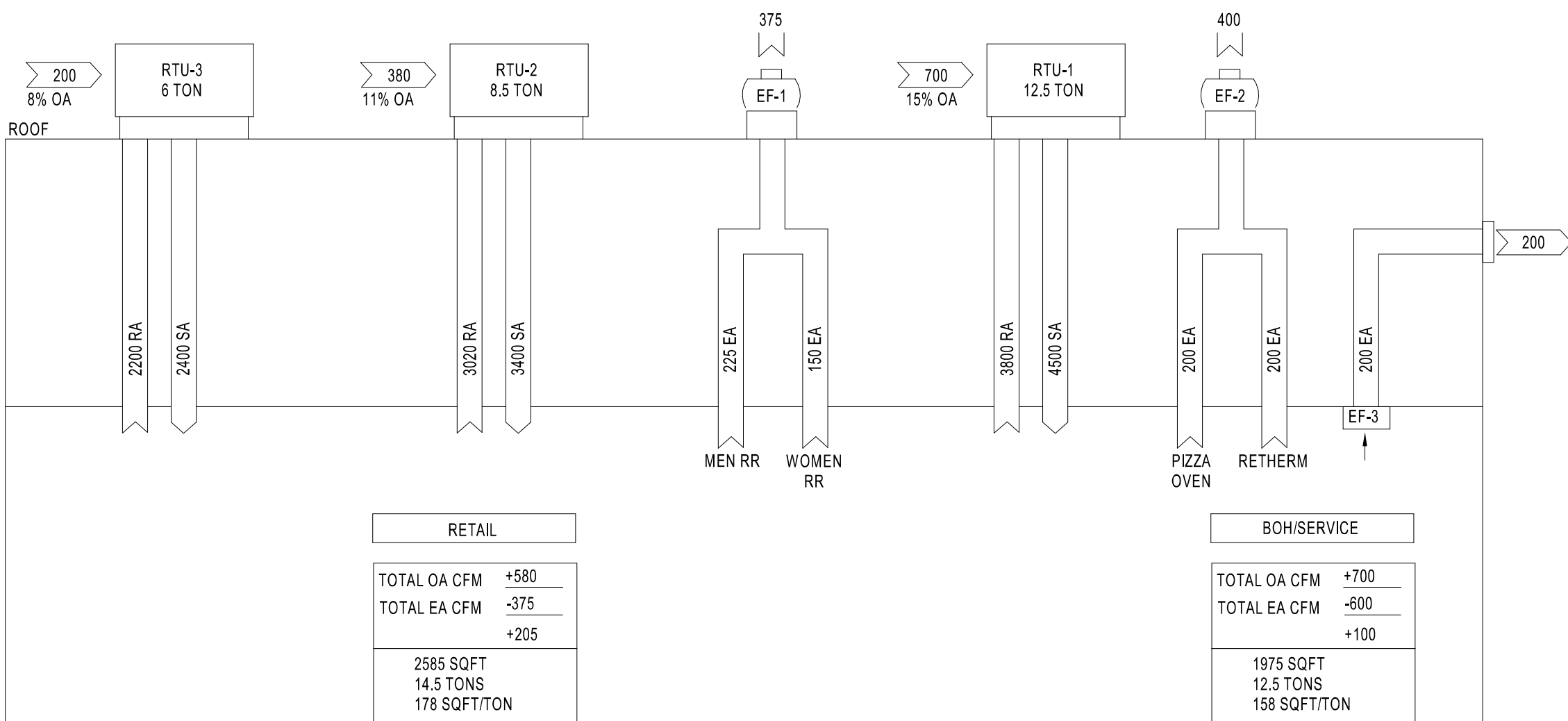
- SUPPLY AIR FAN SHALL RUN CONTINUOUSLY.
- OUTSIDE AIR DAMPER SHALL BE IN MINIMUM POSITION.
- RESTROOM EXHAUST FANS SHALL BE ENERGIZED (24/7).
- THERMOSTAT SHALL MODULATE HEATING ELEMENTS TO ACHIEVE ROOM SET TEMPERATURE.

24 HOUR CYCLE - DEHUMIDIFICATION

- SUPPLY AIR FANS SHALL RUN CONTINUOUSLY.
- MECHANICAL OUTSIDE AIR DAMPERS SHALL BE IN MINIMUM POSITION.
- RESTROOM EXHAUST FANS SHALL BE ENERGIZED (24/7).
- HUMIDISTAT SHALL CYCLE COOLING COIL STAGES TO MAINTAIN SET POINT HUMIDITY (SET AT 50%).

SMOKE DETECTOR

- WHEN SMOKE DETECTOR IS ACTIVATED SUPPLY AIR FAN SHALL SHUTDOWN.
- FIRE ALARM SHALL BE SIGNALLED.
- SUPPLY AIR FAN SHALL BE MANUALLY RESET. KEYPAD SET IN MANAGER'S OFFICE.



AIR BALANCE SCHEMATIC

VENTILATION SCHEDULE									
ROOM NAME	OCCUPANCY CATEGORY	AREA (SF)	SF PER PERSON	# OF PEOPLE	OA PER AREA (CFM/SF)	OA PER PERSON (CFM/PERS ON)	Outdoor Airflow	ZONE EFF. (E _z)	TOTAL OA (CFM)
VESTIBULE	Corridor/Transition	92	0 SF	0.0	0.06	0.0	6 CFM	0.8	614
RETAIL	Merchandising Sales Area - Retail	2189	72 SF	30.5	0.12	7.5	492 CFM	0.8	614
FOOD SERVICE	Food Preparation	388	54 SF	7.2	0.18	7.5	124 CFM	0.8	155
TRASH/STAGING	Active Storage	80	359 SF	0.2	0.12	0.0	10 CFM	0.8	12
WOMEN'S RESTROOM	Restrooms	134	108 SF	1.2	0.00	0.0	0 CFM	0.8	0
ELECTRICAL ROOM	Equipment Room	114	0 SF	0.0	0.0	0.0	0 CFM	0.8	0
MEN'S RESTROOM	Restrooms	128	108 SF	1.2	0.00	0.0	0 CFM	0.8	0
REAR VESTIBULE	Corridor/Transition	55	0 SF	0.0	0.06	0.0	3 CFM	0.8	4
DELIVERY ROOM	Active Storage	136	359 SF	0.4	0.12	0.0	16 CFM	0.8	20
SPECIALTY BEVERAGE	Food Preparation	210	54 SF	3.9	0.18	7.5	67 CFM	0.8	84
COFFEE	Food Preparation	112	54 SF	2.1	0.18	7.5	36 CFM	0.8	45
HALLWAY	Corridor/Transition	138	0 SF	0.0	0.06	0.0	8 CFM	0.8	10
WATER SERVICE ROOM	Equipment Room	50	0 SF	0.0	0.00	5.0	0 CFM	0.8	0
BACK OF HOUSE	Food Preparation	136	54 SF	2.5	0.18	7.5	44 CFM	0.8	54
WASHROOM	Food Preparation	324	54 SF	6.0	0.18	7.5	104 CFM	0.8	129
SELF-SERVICE BEVERAGE	Personal Services Sales Area - Retail	48	72 SF	0.7	0.12	7.5	11 CFM	0.8	13
OFFICE	Office - Enclosed	87	215 SF	0.4	0.06	5.0	7 CFM	0.8	9
ASSOCIATE AREA	Office - Enclosed	79	215 SF	0.4	0.06	5.0	7 CFM	0.8	8
ALCOVE	Merchandising Sales Area - Retail	43	72 SF	0.6	0.12	7.5	10 CFM	0.8	12

TOTAL = 1178 CFM
E_z = 0.8 (WARM AIR CEILING SUPPLY & CEILING RETURN)
TOTAL OSA PROVIDED 1,280 CFM > TOTAL REQUIRED OSA 1,178 CFM

LENNOX SETUP PARAMETERS

UNIT ID CONFIGURATION (MECHANICAL CONTRACTOR TO DEFINE / AS APPLICABLE):

- BACNET CONFIGURATION:** GO TO SETTINGS>GENERAL>CONFIGURATION ID1 POSITION 5 SET TO "B"
- NETWORK CONFIGURATION:** GOT TO SETUP>NETWORK INTEGRATION, SET TO BACNET
- CONTROL MODE:** SET CONTROL MODE TO ROOM SENSOR; CO2 TEMP. & HUMIDITY TO "NO" ZE
- ENTHALPY CONFIGURATION:** CHANGE CONFG ID1 POSITION 2 FROM 0 (DUAL ENTHALPY) TO S (SINGLE ENTHALPY)
- FRESH AIR COOLING:** SETUP>TEST & BALANCE>DAMPER. SCROLL TO FRESH AIR COOLING SET TO "NO"
- FRESH AIR HEAT:** SETUP>TEST & BALANCE>DAMPER. SCROLL TO FRESH AIR HEAT SET TO "NO"

INDIVIDUAL PARAMETER CONFIGURATIONS (MECHANICAL CONTRACTOR TO DEFINE / AS APPLICABLE):

- PARAMETER 105 DEHUMID MODE: 7 NO CONDITIONS
- PARAMETER 106 DEHUMID SETPOINT: 50. THIS IS A CENTERED SET POINT (+/-)
- PARAMETER 107 DEHUMID DEADBAND: 3 (DEFAULT) THIS IS THE ACTUAL +/- VALUE
- PARAMETER 117 CO2 DAMPER MAX OPEN %: 50
- PARAMETER 118 CO2 START OPEN PPM: 1200
- PARAMETER 119 CO2 FULL OPEN PPM: 1500
- PARAMETER 131 FREE COOL MAX DAMPER: 100%
- PARAMETER 137 OCC HEAT SET POINT: 68 (BACK UP)
- PARAMETER 139 OCC COOLING SET POINT: 72 (BACK UP)
- PARAMETER 154 OCC BLOWER MODE: ON-CONTINUOUS 1
- PARAMETER 155 FREE COOL LOCK OUT SET POINT: 29 (DISABLED)
- PARAMETER 159 FREE COOL SUPPLY SET POINT: 55 (DEFAULT)
- PARAMETER 160 ECON FREE COOL SET POINT: 55 (DEFAULT)
- PARAMETER 161 ECON FREE COOL OFFSET: 10 (DEFAULT)
- PARAMETER 162 FREE COOL ENTHALPY SET POINT (SINGLE ENTHALPY): 19 MA (50% HUM + 60F)
- PARAMETER 163 ECON FREE COOL ENTHALPY OFFSET: 1 (DEFAULT)
- PARAMETER 164 ECONOMIZER PROFILE: 2 (DEFAULT)

CFM VALUES / MS/AV FAN SPEEDS (AIR BALANCER TO DEFINE / IF APPLICABLE):

- HEAT CFM VALUE: PER THE HVAC SCHEDULE
- HIGH COOL CFM VALUE: PER THE HVAC SCHEDULE
- LOW COOL CFM VALUE: MATCH THE HIGH COOL CFM VALUE
- VENTILATION CFM VALUE: MATCH THE HIGH COOL CFM VALUE

AIR BALANCE		
MARK	OUTSIDE AIRFLOW (CFM)	EXHAUST AIRFLOW (CFM)
EF-1	375	-375 CFM
EF-2	400	-400 CFM
EF-3	200	-200 CFM
RTU-1	700	-700 CFM
RTU-2	380	-380 CFM
RTU-3	200	-200 CFM
TOTAL POSITIVE =		305 CFM

- HVAC GENERAL NOTES:**
- REFER TO WRITTEN BOOK SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - THE WORK TO BE DONE UNDER THESE SPECIFICATIONS AND THE DRAWINGS CONSISTS OF FURNISHING ALL EQUIPMENT, MATERIALS, LABOR AND SERVICES, AND PERFORMING ALL OPERATIONS TO COMPLETE THE MECHANICAL CONSTRUCTION WORK FOR THIS PROJECT. ANY WORK NOT SPECIFICALLY COVERED BY THESE SPECIFICATIONS OR INDICATED ON THE MECHANICAL/ELECTRICAL/PLUMBING PLANS, BUT NECESSARY TO COMPLETE OR PERFECT ANY PART OF THIS INSTALLATION IN A SUBSTANTIAL MANNER, SHALL BE PROVIDED WITHOUT EXTRA COST TO OWNER.
 - THE TERM "FURNISH" SHALL MEAN TO OBTAIN AND SUPPLY TO THE JOB SITE. THE TERM "INSTALL" SHALL MEAN TO FIX IN POSITION AND CONNECT FOR USE. THE TERM "PROVIDE" SHALL MEAN TO FURNISH AND INSTALL. THE TERM "MECHANICAL WORK" OR "WORK" SHALL MEAN ALL LABOR, MATERIAL, EQUIPMENT, SCAFFOLDING, RIGGING, TOOLS, SUPERVISION, SERVICES AND OTHER INCIDENTALS NECESSARY FOR COMPLETE AND OPERABLE INSTALLATION.
 - THE CONTRACTOR SHALL FURNISH AND INSTALL ALL EQUIPMENT, MATERIALS AND LABOR TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM AS INDICATED ON THE DESIGN DOCUMENTS.
 - CONTRACTOR SHALL PROVIDE ALL ROOFING OPENINGS, FLASHINGS, AUXILIARY STEEL, THREADED RODS, VIBRATION ISOLATORS, TURNBUCKLES, ETC. TO SUPPORT HIS EQUIPMENT ON OR FROM THE STRUCTURE.
 - ANY CHANGES AND/OR MODIFICATIONS MUST BE REVIEWED AND APPROVED BY THE ENGINEER OR OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
 - REMOVE ALL TRASH, DEBRIS AND DEMOLITION MATERIAL FROM PREMISES AT THE END OF EACH WORK DAY.
 - SCHEDULE ALL WORK, CUTTING AND BUILDING SERVICE INTERRUPTIONS WITH BUILDING OWNER AND CONSTRUCTION MANAGER, PRIOR TO COMPLETING WORK.
 - FIELD ADJUST THE DIRECTION OF BLOW FOR ALL SUPPLY AIR DEVICES SO THAT THE DEVICES DO NOT BLOW DIRECTLY INTO SOFFITS, CURTAIN WALLS, REFRIGERATED CASES OR EXHAUST HOODS.
 - ALL NEW AND EXISTING PIPES AND DUCTS SHALL HAVE UL FIRE RATED SLEEVES AND/OR FIRE RATED DAMPERS, WHEN PASSING THROUGH FIRE RATED CONSTRUCTION.
 - COORDINATE LOCATION OF NEW DUCTWORK, AIR DEVICES AND EQUIPMENT WITH LIGHT FIXTURES, SPRINKLER PIPING AND HYDRONIC PIPING.
 - ALL TEMPERATURE AND HUMIDITY SENSORS SHALL BE INSTALLED 5' ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE ON PLAN. COORDINATE FINAL LOCATIONS WITH EQUIPMENT, FURNITURE, TENANT AND ARCHITECT PRIOR TO INSTALLATION.
 - VERIFY ALL EQUIPMENT VOLTAGES, WIRING REQUIREMENTS, AND REQUIRED BREAKER SIZES WITH THE ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT.
 - THE MECHANICAL CONTRACTOR SHALL HAVE A QUALIFIED HVAC TECHNICIAN FROM THE UNIT MANUFACTURER PROVIDE AN EQUIPMENT OPERATION CHECK AFTER UNIT START-UP AND PRIOR TO CERTIFIED AIR BALANCING. THE CERTIFICATION, SIGNED BY THE TECHNICIAN, MUST BE INCLUDED IN THE GENERAL CONTRACTOR CLOSING DOCUMENTS FOR THE STORE.
 - ALL DRAWINGS ARE CONCEPTUAL AND SCHEMATIC AND ARE INTENDED FOR USE AS A DESIGN/BUILD GUIDELINE. THE CONTRACTORS ARE RESPONSIBLE FOR VERIFYING ALL FIELD CONDITIONS AND ADJUSTING OR MODIFYING THE SPECIFIC ELEMENTS OF THEIR WORK AS REQUIRED TO MEET THE DESIGN INTENT. THE CONTRACTORS ARE RESPONSIBLE FOR THE FOLLOWING:
 - COORDINATION WITH OTHER TRADES.
 - PROVIDING ADDITIONAL DRAWINGS, CALCULATIONS AND OTHER DOCUMENTATION REQUIRED FOR THE BUILDING DEPARTMENT. THE MECHANICAL CONTRACTOR SHALL DOCUMENT THE INSTALLATION AND PROVIDE ALL TESTS REQUIRED TO SUBSTANTIATE CODE COMPLIANCE AS REQUIRED BY THE BUILDING DEPARTMENT AND LOCAL INSPECTOR. CONTRACTOR SHALL SUBMIT FINAL AS-BUILT DRAWINGS TO BUILDING DEPARTMENT FOR RECORD AT COMPLETION.
 - MECHANICAL PLANS ARE DIAGRAMMATIC IN NATURE, NOT SHOWING EVERY ITEM IN EXACT LOCATION OR DETAIL. MEASUREMENTS AND LOCATIONS MUST BE FIELD VERIFIED AND COORDINATED WITH ARCHITECTURAL, HVAC, FIRE PROTECTION, STRUCTURAL, ELECTRICAL AND OTHER BUILDING DRAWINGS.
 - CONTRACTOR TO INCLUDE IN BID ALL COSTS TO MAKE FIELD COORDINATION AND ADJUSTMENT TO DUCTWORK FOR FIT INTO EXISTING STRUCTURE. CONTRACTOR SHALL VERIFY AND FIELD COORDINATE FINAL LOCATION OF MECHANICAL EQUIPMENT.
 - CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS AND PERFORM ALL TESTS CALLED FOR OR REQUIRED AS A PART OF HIS WORK. FURNISHED APPROVED CERTIFICATE OF FINAL INSPECTION, AND TURN OVER TO OWNER AT COMPLETION OF PROJECT.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL TRADES, LANDLORD REQUIREMENTS, CEILING HEIGHTS AND EXISTING STRUCTURAL CONDITIONS PRIOR TO FABRICATION OF ANY DUCTWORK OR ORDERING OF ANY EQUIPMENT.
 - INSTALLATION OF THE MECHANICAL EQUIPMENT SHALL COMPLY WITH THE MANUFACTURER'S SPECIFICATION AND CLEARANCE REQUIREMENTS.
 - ALL HVAC WORK SHALL BE IN ACCORDANCE WITH NFPA 90A, 90B, 96, 54 AND NFC 101, LIFE SAFETY CODE.
 - INSTALLATION SHALL COMPLY WITH ALL LOCAL, STATE AND NATIONAL CODES, AND WITH LATEST ASHRAE PUBLICATIONS. WORK SHALL BE NEAT AND WORKMANSHIP SHALL BE ACCEPTABLE TO BUILDING STANDARDS.
 - CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE TEMPERATURE CONTROL SYSTEM TO INCLUDE: PANELS, MODULES, RELAYS, WIRING, THERMOSTATS, SENSORS, DAMPERS, ACTUATORS AND ALL MISCELLANEOUS ITEMS AS REQUIRED TO FULFILL THE DESIGN INTENT AS INDICATED ON THE PLANS AND IN THE CODED NOTES. THERMOSTATS AND SENSORS SHALL BE LOCATED GENERALLY AS SHOWN BUT THEIR EXACT LOCATION SHALL BE FIELD COORDINATED TO AVOID INTERFERENCE WITH WALL MOUNTED WORK.
 - DURING THE BIDDING PERIOD, EACH CONTRACTOR SHALL VISIT THE SITE TO DETERMINE CONDITIONS AFFECTING THE WORK. BIDS SHALL SERVE AS EVIDENCE OF KNOWLEDGE OF EXISTING CONDITIONS AND ANY MODIFICATIONS WHICH ARE REQUIRED TO MEET THE INTENT OF THE DRAWINGS AND SPECIFICATIONS. FAILURE TO VISIT THE SITE DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY IN PERFORMANCE OF WORK REQUIRED CONDITIONS IN EVIDENCE THEREBY SHALL NOT BE JUSTIFICATION FOR ADDITIONAL COMPENSATION.
 - THE EQUIPMENT SHALL BE LOCATED TO ALLOW FOR EASY ACCESS FOR SERVICING, ADJUSTING OR MAINTENANCE AND SPACE FOR REMOVAL OF INTERNAL ASSEMBLIES. PROVIDE MINIMUM CLEARANCES FOR ALL EQUIPMENT PER THE MANUFACTURER'S RECOMMENDATIONS.
 - PROVIDE ALL CONTROL EQUIPMENT, MOTOR STARTERS, RELAYS, LINE VOLTAGE CONTROLS, TRANSFORMERS, LOW VOLTAGE CONTROLS, AND DEVICES NECESSARY FOR THE COMPLETE OPERATION OF THE HEATING AND AIR CONDITIONING AND VENTILATING SYSTEM.
 - ALL LOW VOLTAGE WIRING AND CONDUIT REQUIRED FOR MECHANICAL EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR.
 - PROVIDE ALL FANS AND ROOFTOP UNITS WITH RELAYS TO SHUT DOWN WHEN FIRE ALARM IS INITIATED. COORDINATE LOCATION WITH THE ELECTRICAL CONTRACTOR FOR THE FIRE ALARM WIRING.
 - IN THE EVENT OF FAN SHUT DOWN, ALL DUCT MOUNTED DETECTORS SHALL REMAIN IN OPERATION.
 - CONTRACTOR TO PROVIDE TENANT WITH AS-BUILT DRAWINGS OF ALL CHANGES OR MODIFICATIONS MADE IN THE FIELD, TO THE ORIGINAL SET OF CONSTRUCTION DOCUMENTS, FOR TURN-OVER TO THE ARCHITECT/ENGINEER UPON COMPLETION OF THE PROJECT. PROVIDE ALL EQUIPMENT SHOP DRAWINGS, INFORMATION ON CONTROL DEVICES, CONTROL WIRING DIAGRAMS AND OTHER PERTINENT INFORMATION AT COMPLETION OF PROJECT.
 - IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE MECHANICAL EQUIPMENT COMPONENTS ARE INSTALLED AT LOCATIONS AND ELEVATIONS WHICH MAKE THEM READILY ACCESSIBLE FOR ROUTINE MAINTENANCE WITHOUT REQUIRING ANY EXTRAORDINARY MEASURES.
 - THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ADMINISTERING ALL WARRANTIES ON EQUIPMENT WHICH HE INSTALLS. THIS INCLUDES ALL CONDENSERS, REFRIGERANT PIPES, AND OTHER ITEMS FURNISHED BY OTHERS AS WELL AS THOSE FURNISHED BY HIM.
 - FIELD VERIFY THE EXACT LOCATION OF ALL EQUIPMENT WITH ARCHITECT/OWNER PRIOR TO INSTALLATION. INFORM OWNER OF ANY EQUIPMENT ITEMS THAT REQUIRE RELOCATION.
 - PROVIDE VIBRATION ISOLATION DEVICES AND FLEXIBLE CONNECTIONS TO ALL MOVING MACHINERY.
 - ALL SUPPLY DUCT BENDS FROM THE VERTICAL TO HORIZONTAL AND ANGLED TURNS OF DUCTWORK SHALL HAVE TURNING VANES INSTALLED.
 - PROVIDE SMOOTH TRANSITIONS AT EQUIPMENT AND AIR DEVICES TO MATCH CONNECTION SIZES. ALL DUCTWORK SHALL BE SHEET METAL FABRICATED IN ACCORDANCE WITH ASHRAE GUIDE AND SMACNA MANUAL LATEST EDITIONS.
 - THE CONTRACTOR SHALL ENGAGE AN INDEPENDENT AIR BALANCING AGENCY SUBSEQUENT TO THE APPROVAL OF THE OWNERS REPRESENTATIVE. THE T&B AGENCY CAN ONLY ACT AS HIS OWN REPORTING AGENCY IF SUITABLE INSTRUMENTS HEREINAFTER REQUIRED ARE DEMONSTRATED TO BE PART OF HIS NORMAL PROCEDURE TO THE SATISFACTION OF THE OWNERS REPRESENTATIVE. THE T&B AGENCY SHALL BE ABC OR NEBB CERTIFIED. CONTRACTOR SHALL PROVIDE LANDLORD WITH WATER AND AIR BALANCE REPORT.
 - IT SHALL BE THE RESPONSIBILITY OF THIS T&B AGENCY TO PROVIDE THE LOCAL BUILDING DEPARTMENT AND OWNER WITH PROPER TEST & BALANCE DATA ON ABBOT NEBB FORMS.
 - BUILDING AIR SYSTEMS SHALL BE BALANCED PER DATA INCLUDED ON THE DRAWINGS TO ACHIEVE RELATIVE AIR VOLUMES AS INDICATED ON THE DRAWINGS AND SCHEDULES TO HIS FIRM, REFER TO AIR FLOW DIAGRAM DETAIL.
 - ALL NEW SUPPLY AND RETURN DUCTWORK SHALL BE GALVANIZED STEEL, EXTERNALLY INSULATED WITH 1.5" FIBERGLASS DUCTWRAP. INSTALLED R VALUE SHALL BE A MINIMUM OF 6. SEAL ALL JOINTS AND SEAMS PRIOR TO ADDING DUCTWRAP. SEAL WRAP WITH GLASS FABRIC AND MASTIC MEETING UL 181.
 - PROVIDE VOLUME BALANCING DAMPER AT ALL NINETY-DEGREE DUCT TAKE-OFFS. THIS ALSO APPLIES TO TAKE-OFFS TO DIFFUSERS OR REGISTERS LOCATED DIRECTLY UNDER DUCTS.
 - ALL RESTROOM MAKE-UP AIR SHALL BE GALVANIZED STEEL TRANSFER DUCTS WITH ZERO LEAKAGE BACKDRAFT DAMPERS AND DOOR UNDERCUTS.
 - REFRIGERANT PIPE SIZING AND ROUTING DESIGN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL TAKE INTO ACCOUNT LENGTH OF RUN AND FIELD CONDITIONS WHEN SIZING THE PIPING TO ENSURE ALL LOSSES ARE ACCOUNTED FOR.
 - MECHANICAL CONTRACTOR TO FIELD VERIFY WITH STRUCTURE ALL DUCT ROUTING PRIOR TO FABRICATION.
 - PROVIDE ACCESS TO ALL COMPONENTS REQUIRING PERIODIC INSPECTION AND SERVICE THAT ARE LOCATED WITHIN THE SPACE OR REQUIRE ACCESS THROUGH THE SPACE. LABEL ACCESS DOORS AND PANELS OR CEILING TILES UTILIZED FOR ACCESS WITH THE NAME OF THE HIDDEN COMPONENT(S). DEMONSTRATE ACCESS TO ALL HIDDEN COMPONENTS FOR THE FIELD REPRESENTATIVE PRIOR TO OCCUPANCY.
 - ALL ROOF TOP UNITS AND ROOF TOP EXHAUST FANS SHALL BE LABELED TO INDICATE MARK NUMBERS, PANEL OR CIRCUIT ORIGIN, AND CIRCUIT NUMBER. LABELS SHALL BE SUNLIGHT RESISTANT AND SHALL BE IN PLACE PRIOR TO INSPECTION.
 - PROVIDE ALL NECESSARY TRANSITIONS AND OFFSETS IN SUPPLY AND RETURN AIR DUCTWORK TO AVOID STRUCTURE, WATER, GAS, SPRINKLER PIPING, OTHER DUCTWORK, OTHER TRADES, ETC. DUCTWORK SHALL BE INSTALLED AS HIGH AS CONDITIONS WILL ALLOW.
 - ENSURE NEAT AND CLEAN INSTALLATION OF ALL EXPOSED DUCTWORK AND AIR DEVICES. AT THE TERMINATION OF WORK, CLEAN ALL EXPOSED DUCTWORK AND AIR DEVICES. EXPOSED DUCTS AND AIR DEVICES SHALL BE FREE OF DIRT, DEBRIS, STICKERS, WRITING, SCRATCHES, OR OTHER FOREIGN OBJECTS OR CONTAMINANTS.

HARRISON FRENCH & ASSOCIATES, L.P.D.

HFA

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STORE NUMBER: 5807
JOB NUMBER: 42-234-0587

DATE: 04/16/24

DESIGNED BY: JMM
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WAWA
 STORE NUMBER: 5807
 STORE ADDRESS: 1000 W. WAWA RD
 GEMMES, AL 36525
 JOB NUMBER: 42-2345-0587

ISSUE BLOCK

2	REV 2	04/25/24

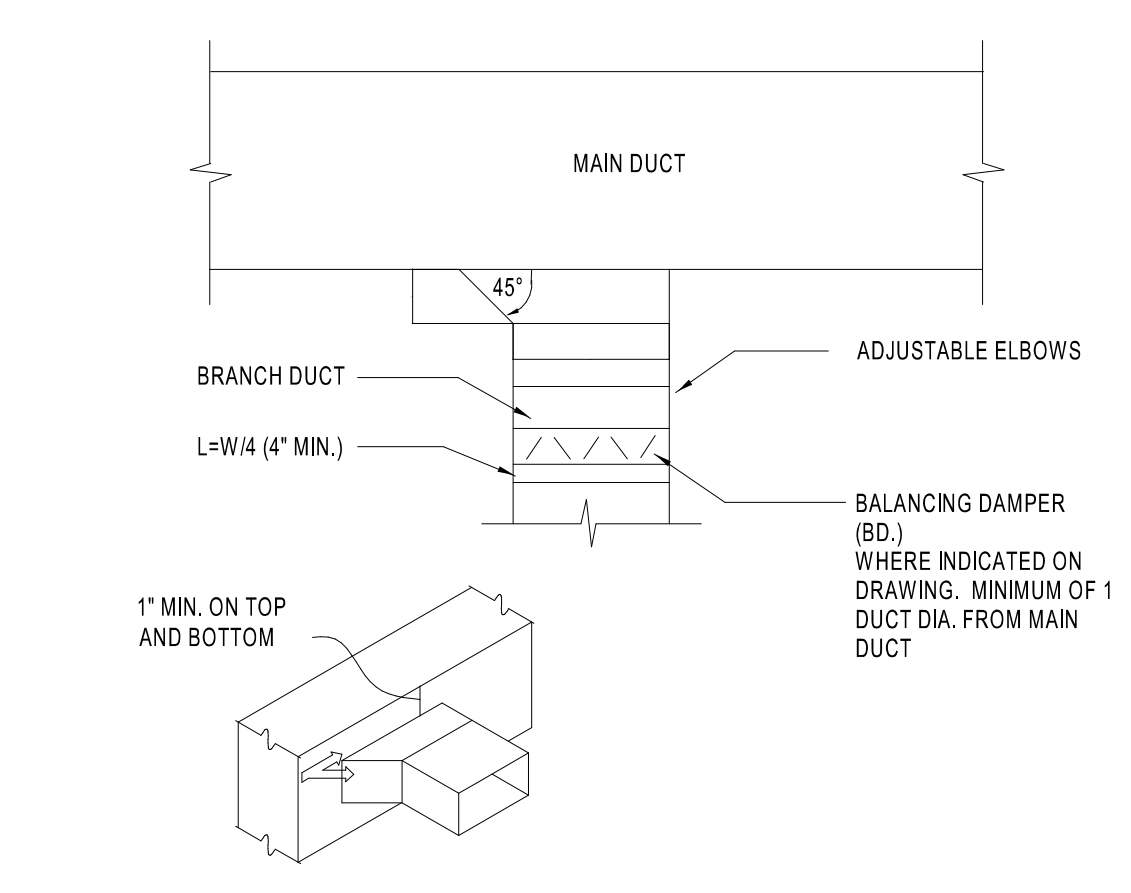
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 DRAWN BY: SGB
 DOCUMENT DATE: 07/23/2024
 PROTO: U59FB-R
 CYCLE: 2023.Q4.V1.G4
 PLAN ISSUE: CNST SET

BLOCKING BY OTHERS
 AIR CURTAIN - SEE SCHEDULE
 FACTORY ACCESSORY MODEL MB123 QUICK MOUNTING PLATE
 FASTENERS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS
 STEERING VANE ANGLE SET AT FACTORY - DO NOT ADJUST
 DOOR JAMB
 MAGNETIC REED DOOR SWITCH
 AIR FLOW
 EXTERIOR DOOR

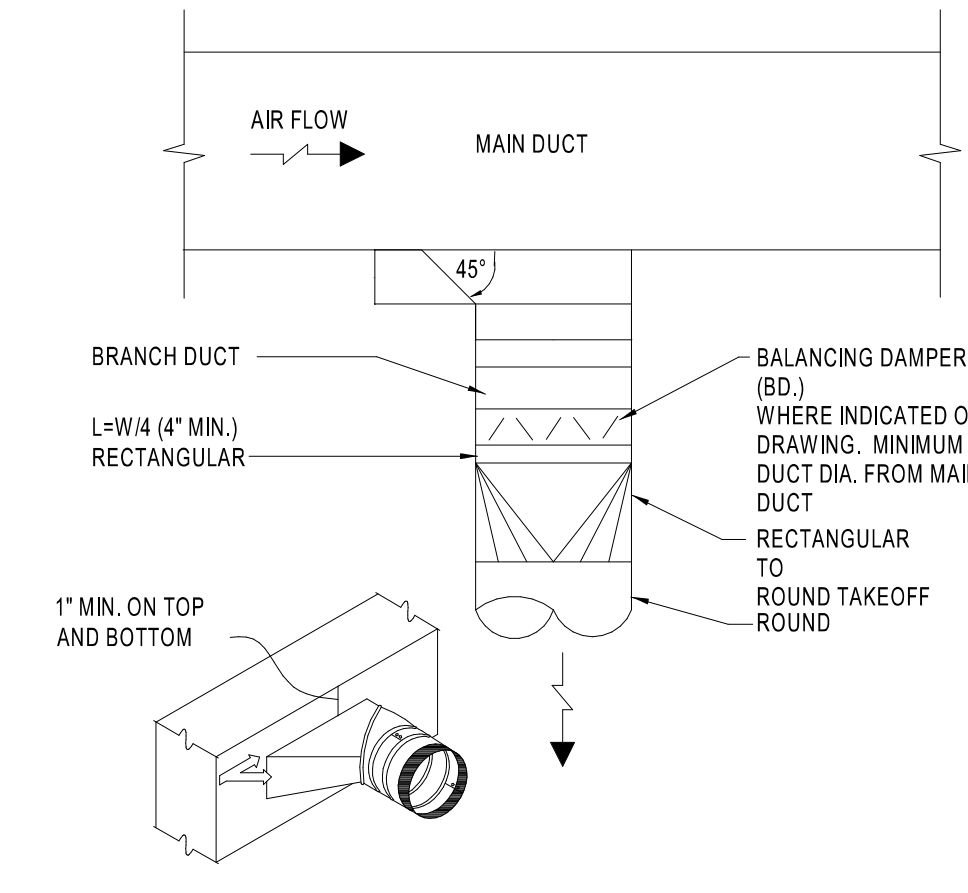
TRANSITION AS REQUIRED FROM UNIT POINT OF CONNECTION TO PROVIDE DOWN THRU ROOF FROM RTU.
 PROVIDE 20x20 TEE WITH TURNING VANES. TRANSITION TO SPIRAL DUCTWORK AS SHOWN IMMEDIATELY DOWNSTREAM OF TEE

- GENERAL NOTES:
- THIS SYSTEM HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE STRUCTURAL PROVISIONS OF THE INTERNATIONAL BUILDING CODE FOR USE WITHIN AND OUTSIDE OF THE HIGH VELOCITY HURRICANE ZONE.
 - CONTRACTOR SHALL ENSURE THAT EACH INSTALLATION ASSEMBLY MEET MINIMUM CLEARANCE HEIGHT PER BC.
 - ALL FASTENERS TO BE #10 OR GREATER SAE GRADE 5, UNLESS NOTED OTHERWISE. CADMIUM PLATED OR OTHERWISE CORROSION RESISTANT MATERIAL AND SHALL COMPLY WITH ANY APPLICABLE FEDERAL, STATE, AND LOCAL CODES. PROVIDE (5) PITCHES MIN PAST THREAD PLANE.
 - ALL EXTRUDED MEMBERS SHALL BE ALUMINUM ALLOY TYPED 6061-T6 OR 6063-T5.
 - ALUMINUM WELDING SHALL BE PERFORMED IN ACCORDANCE WITH BC WITH WELD FILLER ALLOYS MEETING ANSIAWS A5.10 STANDARDS TO ACHIEVE ULTIMATE DESIGN STRENGTH IN ACCORDANCE WITH THE ALUMINUM DESIGN MANUAL, TABLE 3.6 WELD FILLER 5385 ELEC TRODES. ALL ALUMINUM CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE TOLERANCE, QUALITY AND METHODS OF THE AMERICAN WELDING SOCIETY'S STRUCTURAL WELDING CODE-ALUMINUM. MINIMUM WELD IS 1/8" THROAT FULL PERIMETER FILLET WELD UNLESS OTHERWISE NOTED.
 - THE CONTRACTOR IS RESPONSIBLE TO INSULATE MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
 - ALL MECHANICAL SPECIFICATIONS (CLEAR SPACE, TONNAGE, ETC.) SHALL BE PER MANUFACTURER'S RECOMMENDATION AND ARE THE EXPRESS RESPONSIBILITY OF THE CONTRACTOR.
 - AC STANDS SHALL BE LABELED CONTAINING:
 MIAMI TECH, INC
 MIAMI, FL
 FLORIDA PRODUCT APPROVAL NUMBER

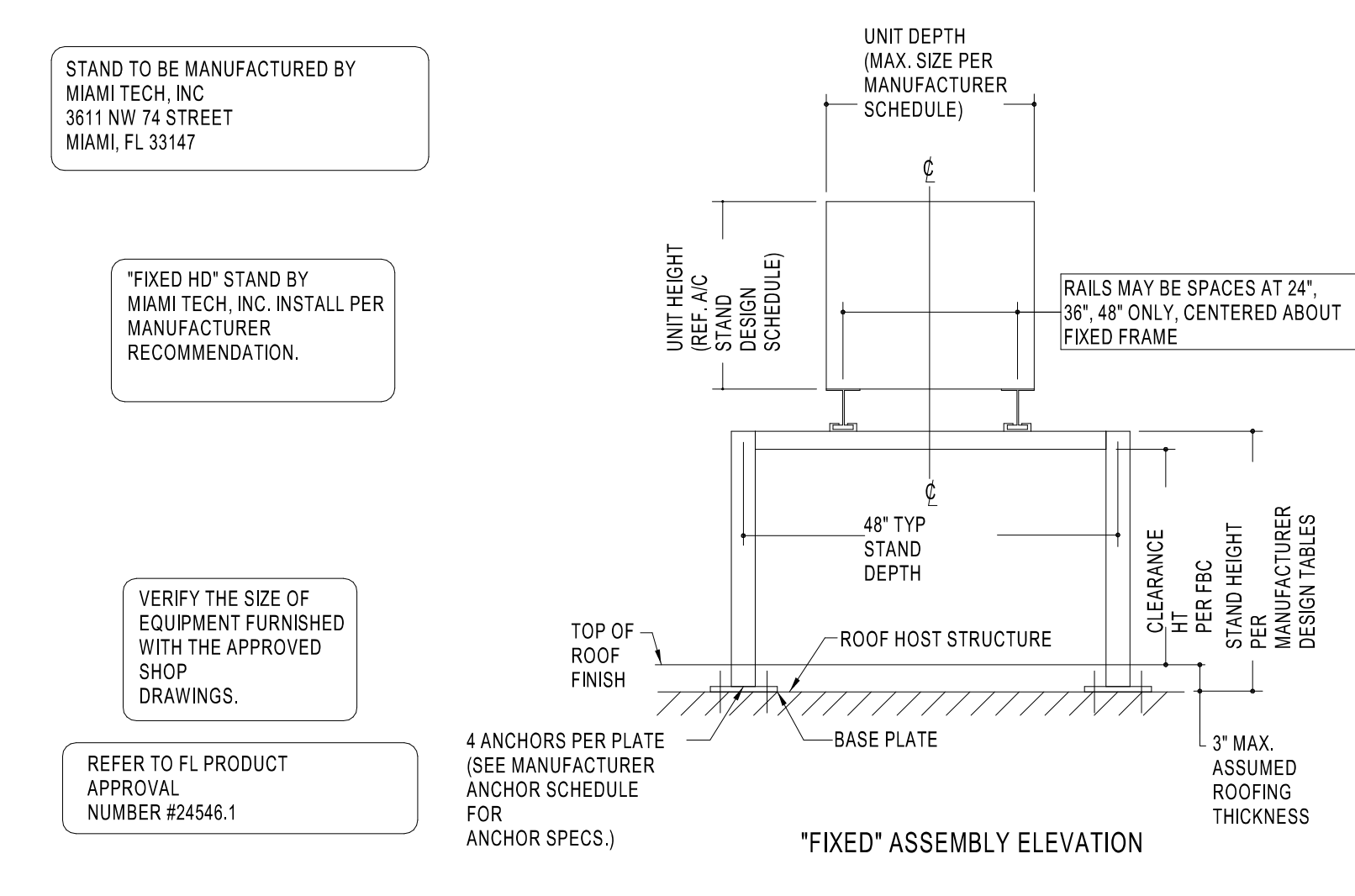
REFER TO MANUFACTURER DRAWINGS FOR COMPLETE SPECIFICATIONS AND REQUIREMENTS.



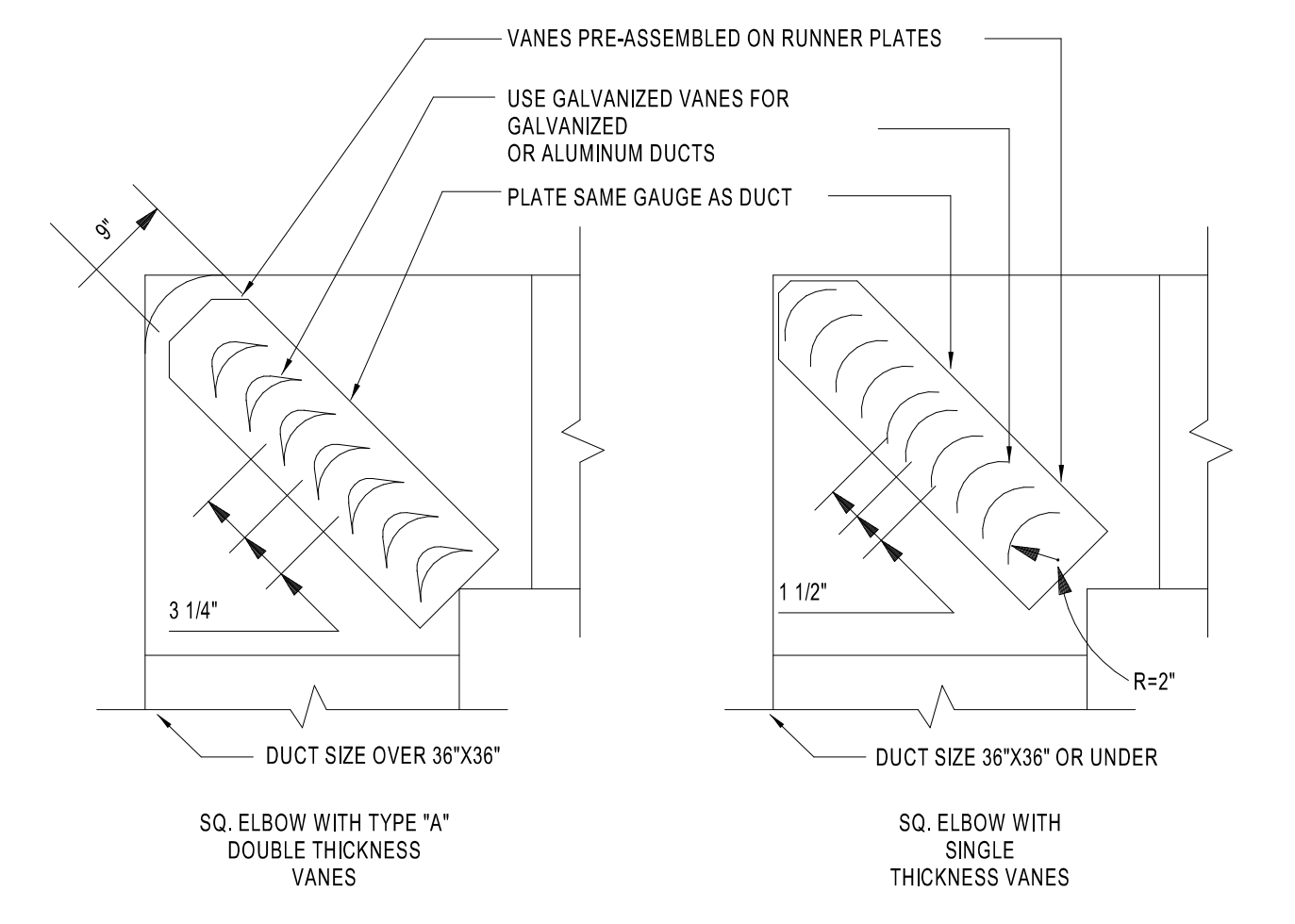
1 RECTANGULAR BRANCH CONNECTION
 M4.0 NTS



2 ROUND BRANCH CONNECTION
 M4.0 NTS



3 CONDENSING UNIT FRAMING SUPPORT
 M4.0 NTS



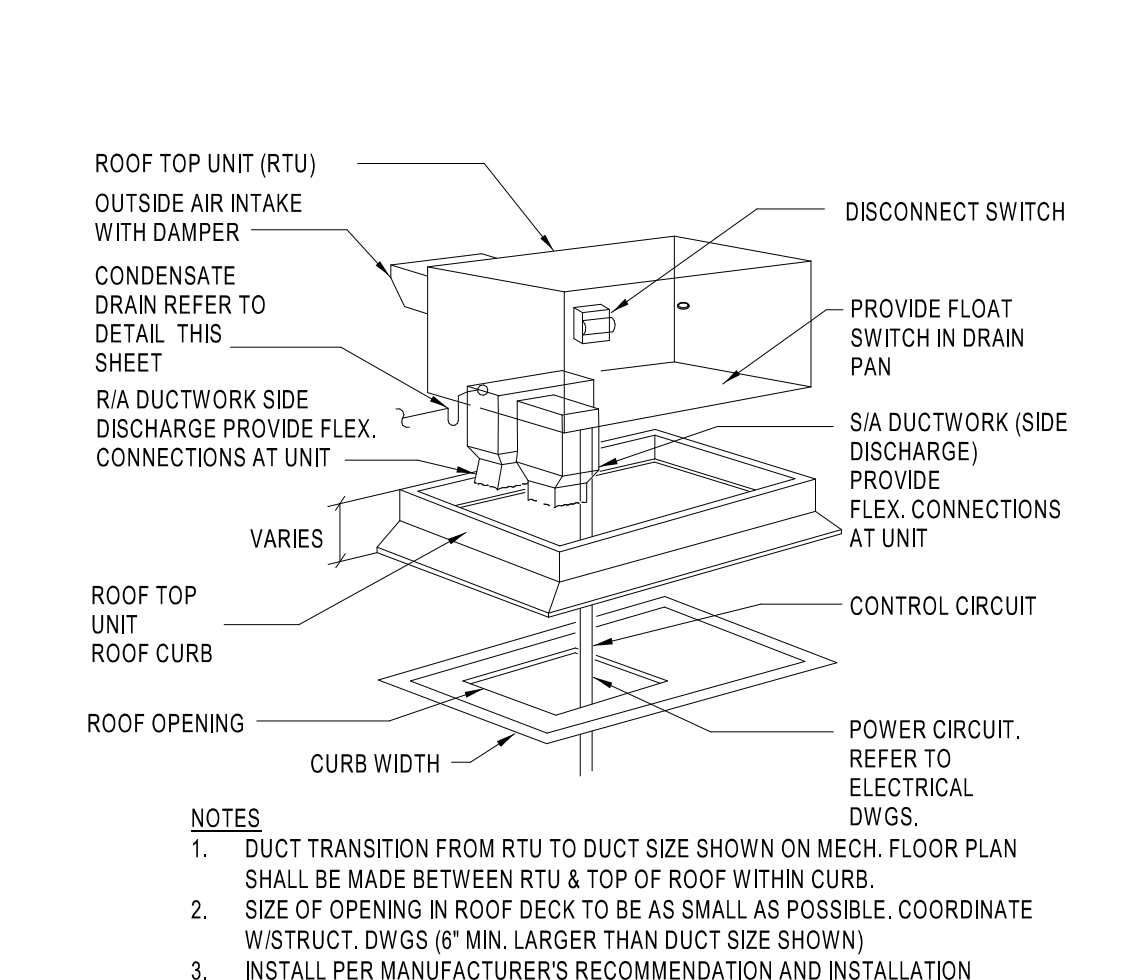
4 TURNING VANE DETAIL
 M4.0 NTS

DUCT SHALL BE SECURELY FASTENED TO RUNNERS.
 ALL VANES SHALL BE SECURE AND STABLE IN INSTALLED OPERATION POSITION. IF NECESSARY AT CERTAIN VELOCITIES OR PRESSURES WELD VANES TO RUNNERS ON APPROPRIATE INTERVALS ALONG RUNNERS.
 TO PREVENT LINER DAMAGE CARE MUST BE EXERCISED WHEN INSTALLING VANES IN LINED OR FIBROUS GLASS DUCT.

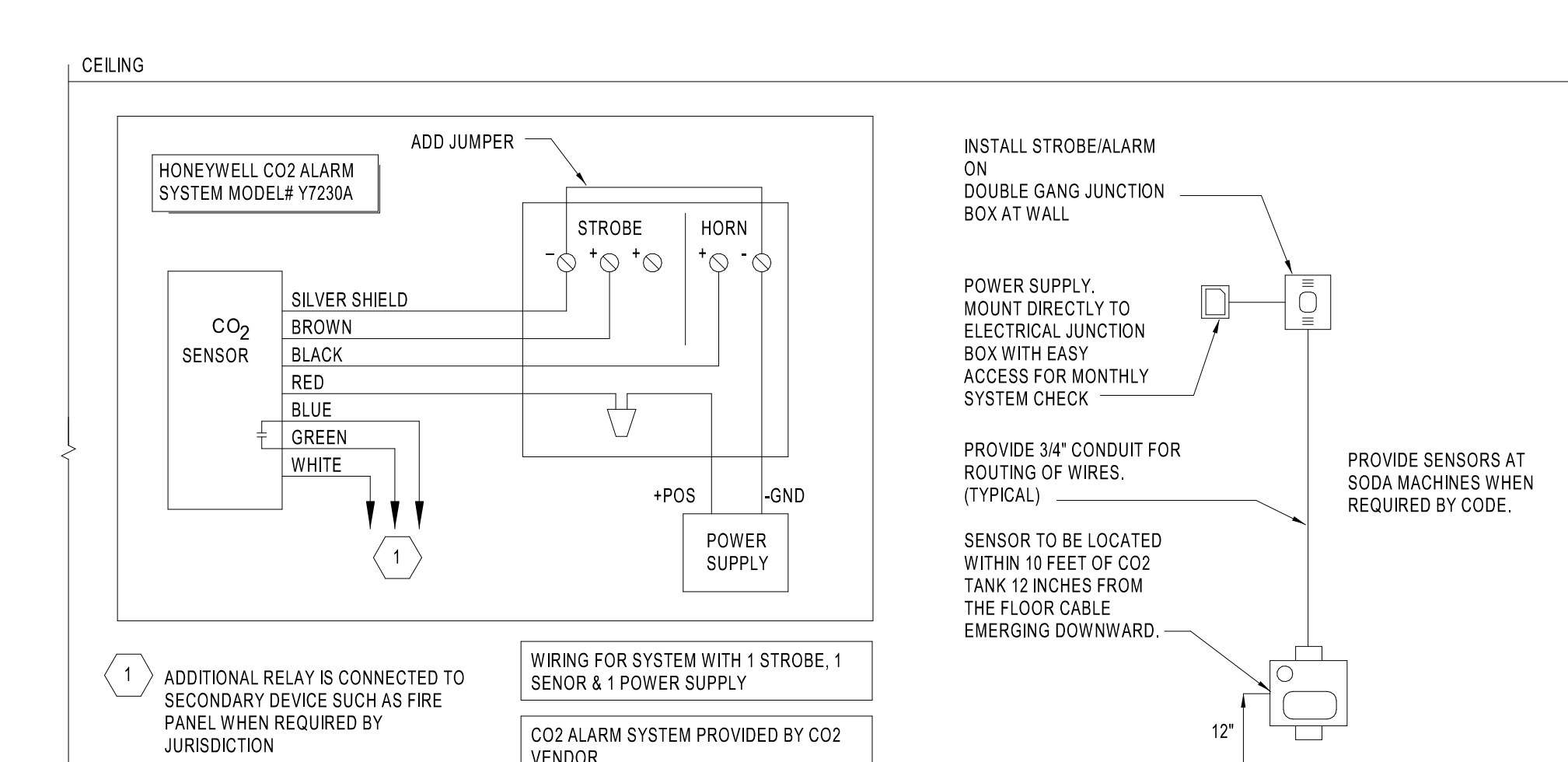
NOTE: FOLLOW PER SMACNA STANDARDS.

	R	SP	GA
SMALL	2"	1 1/2"	24
LARGE	4 1/2"	3 1/4"	22

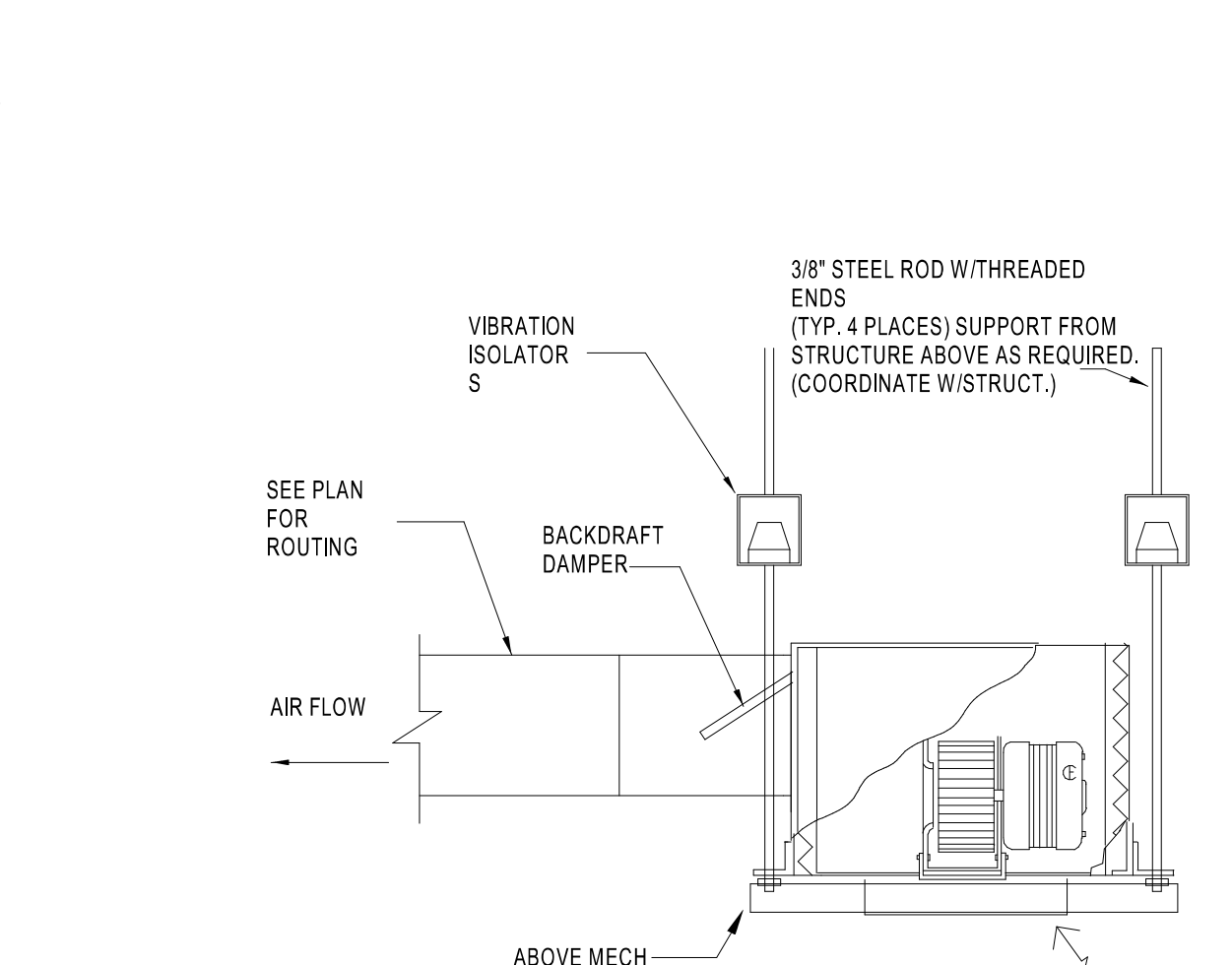
* MAXIMUM UNSUPPORTED VANE LENGTH
 SMALL SINGLE VANE 36"
 LARGE SINGLE VANE 36"
 SMALL DOUBLE VANE 60"
 LARGE DOUBLE VANE 72"



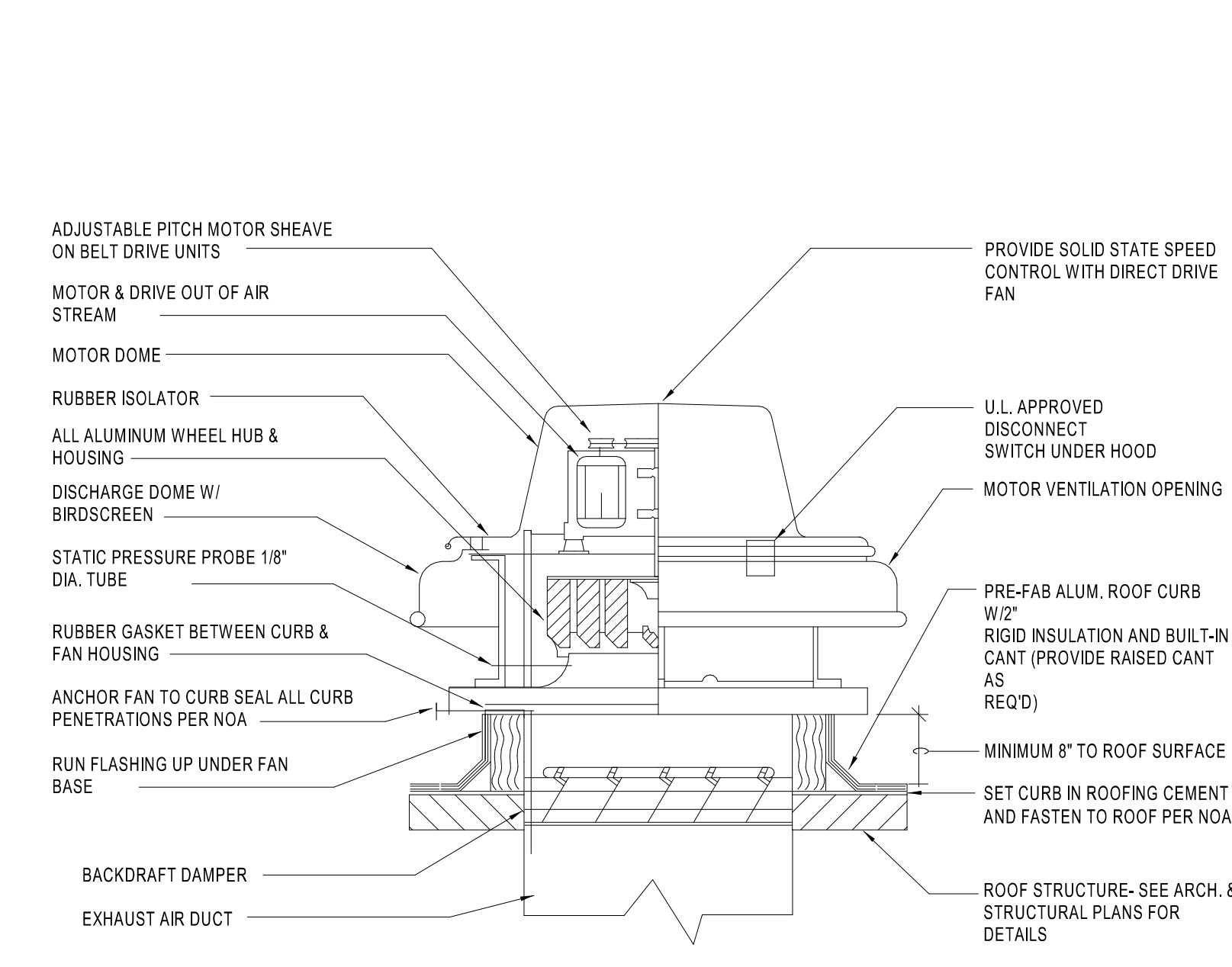
5 ROOF TOP UNIT MOUNTING DETAIL
 M4.0 NTS



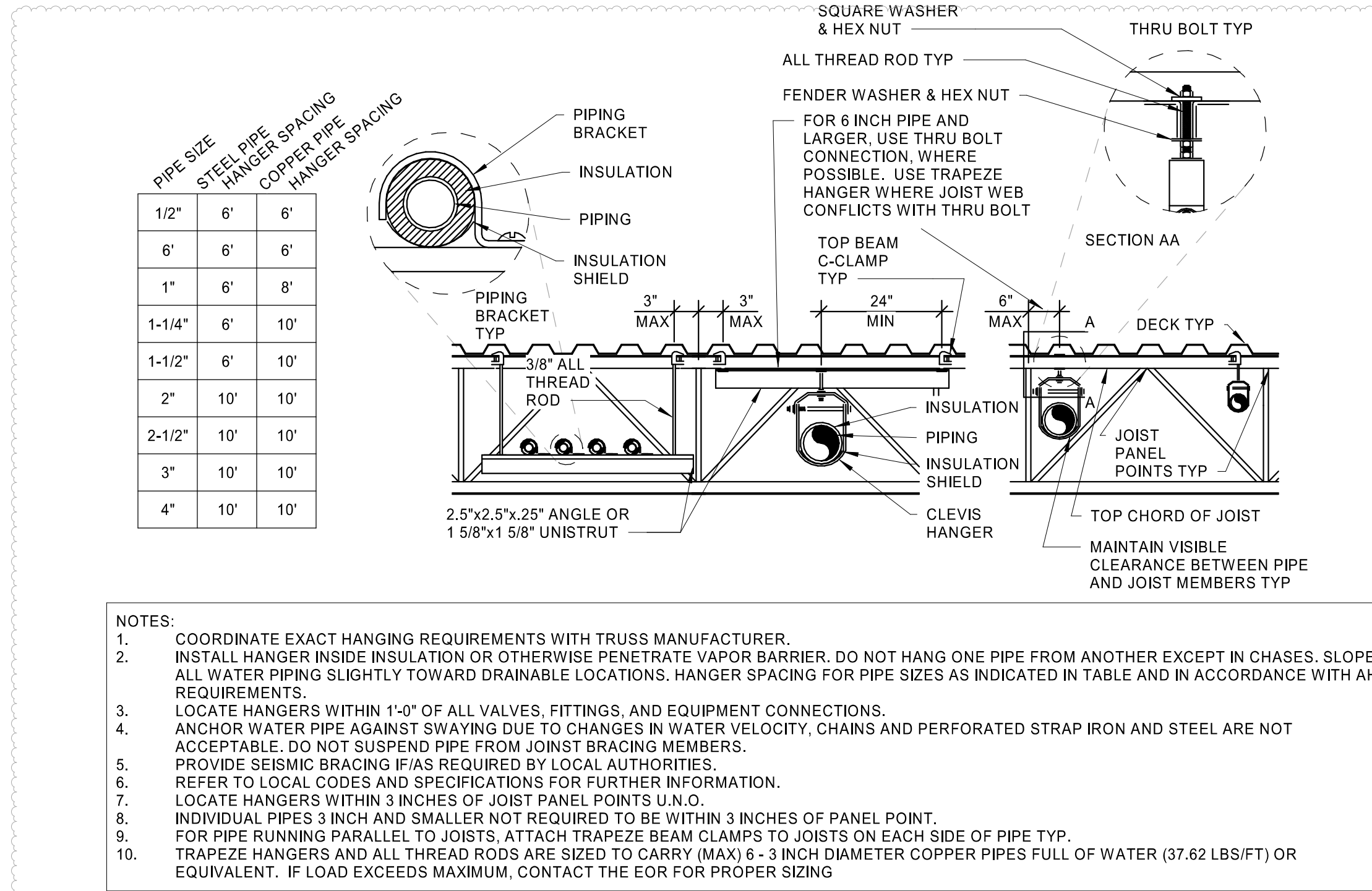
6 CO2 ALARM SYSTEM DETAIL
 M4.0 NTS



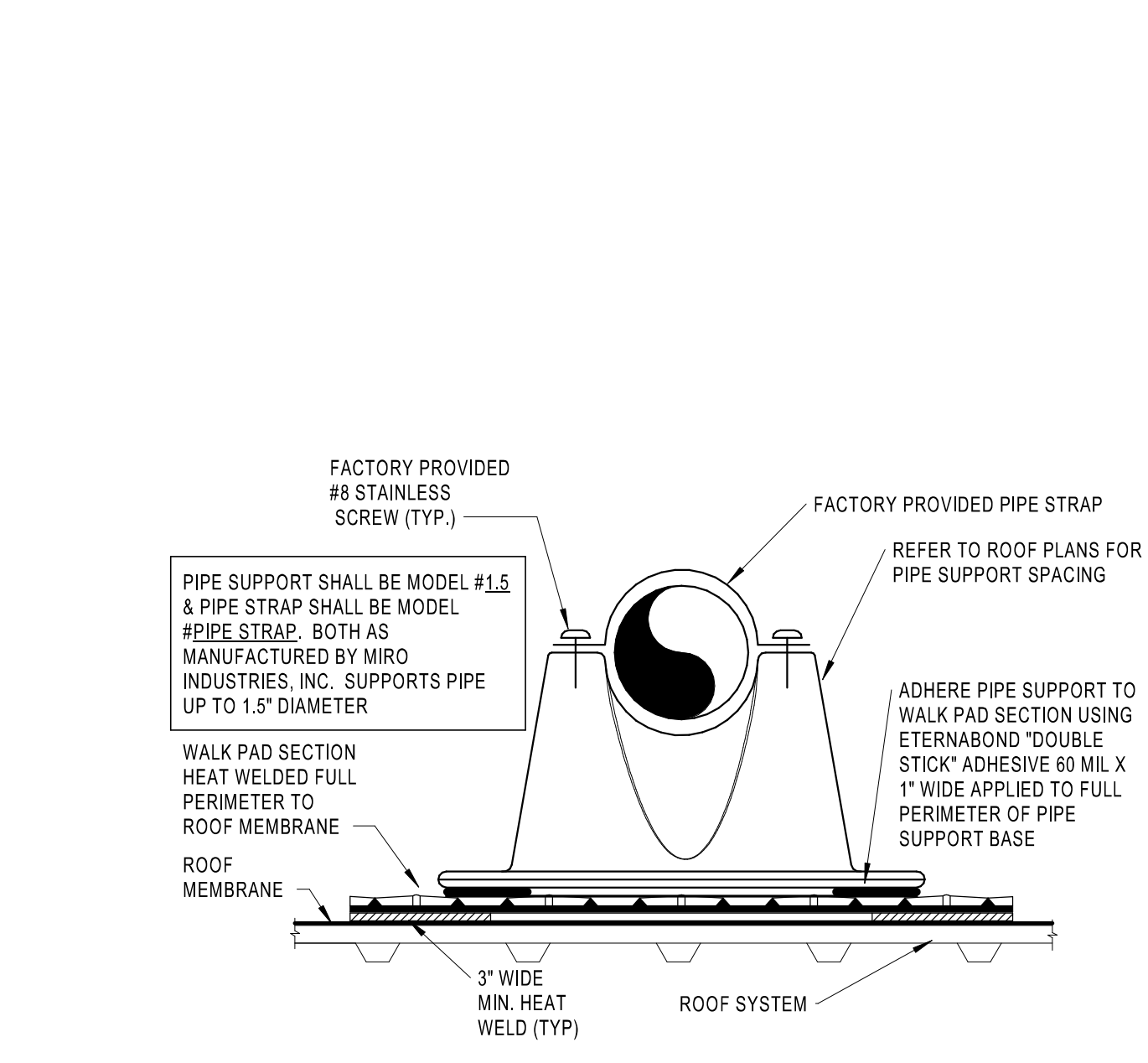
7 CEILING EXHAUST FAN DETAIL
 M4.0 NTS



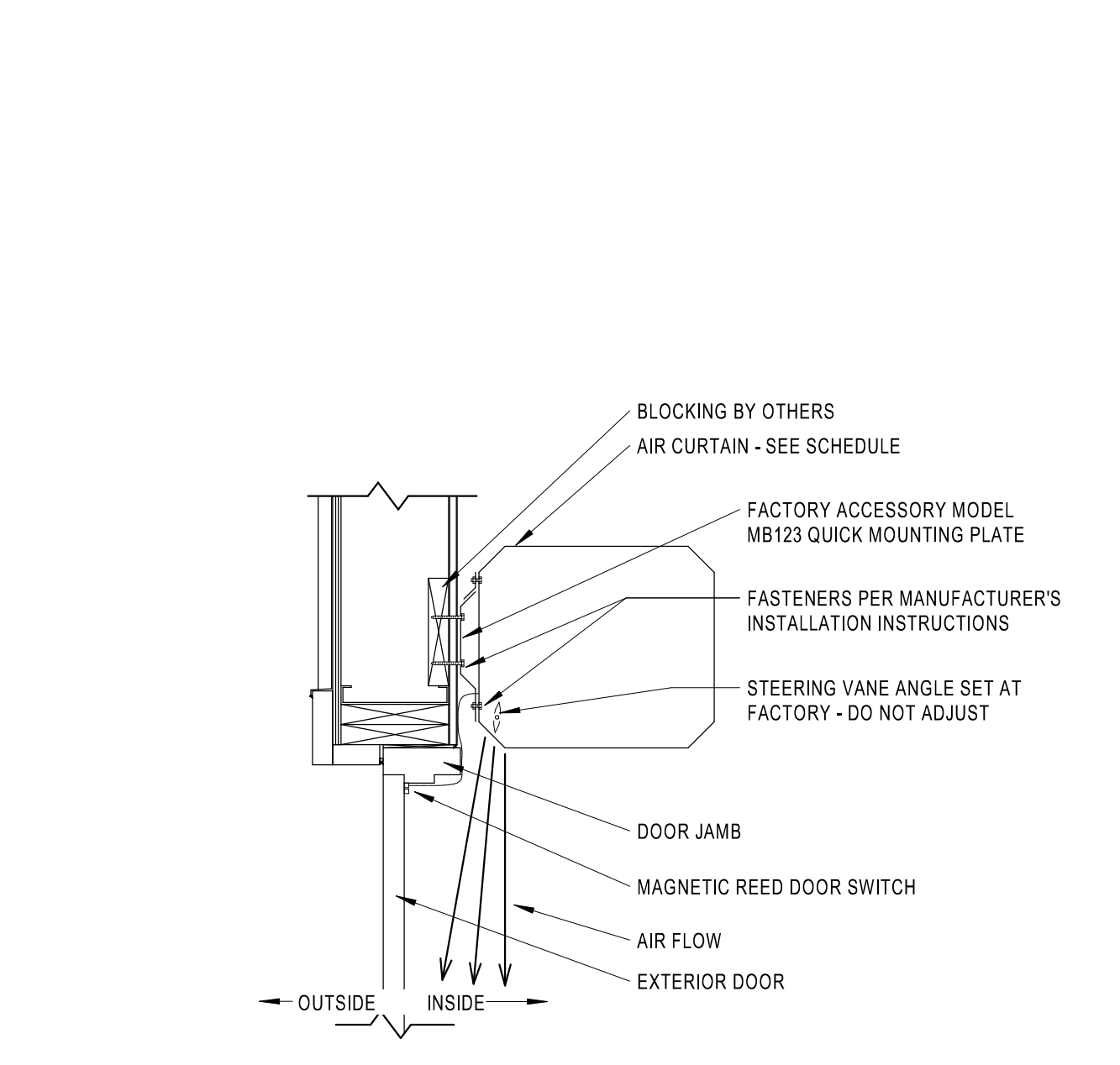
8 TYPICAL EXHAUST FAN DETAIL
 M4.0 NTS



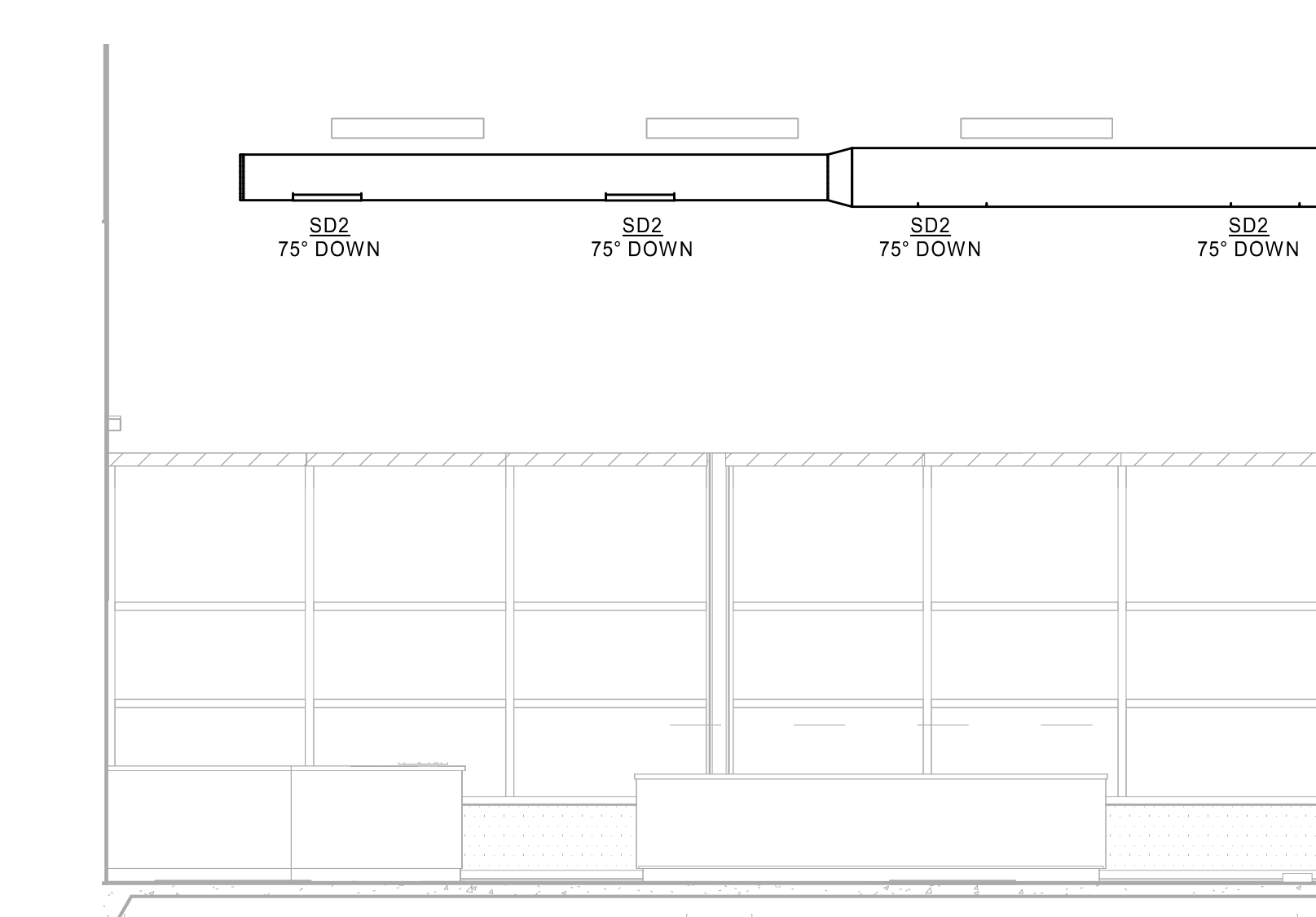
9 PIPE HANGER FOR STEEL JOIST DETAIL
 M4.0 NOT TO SCALE



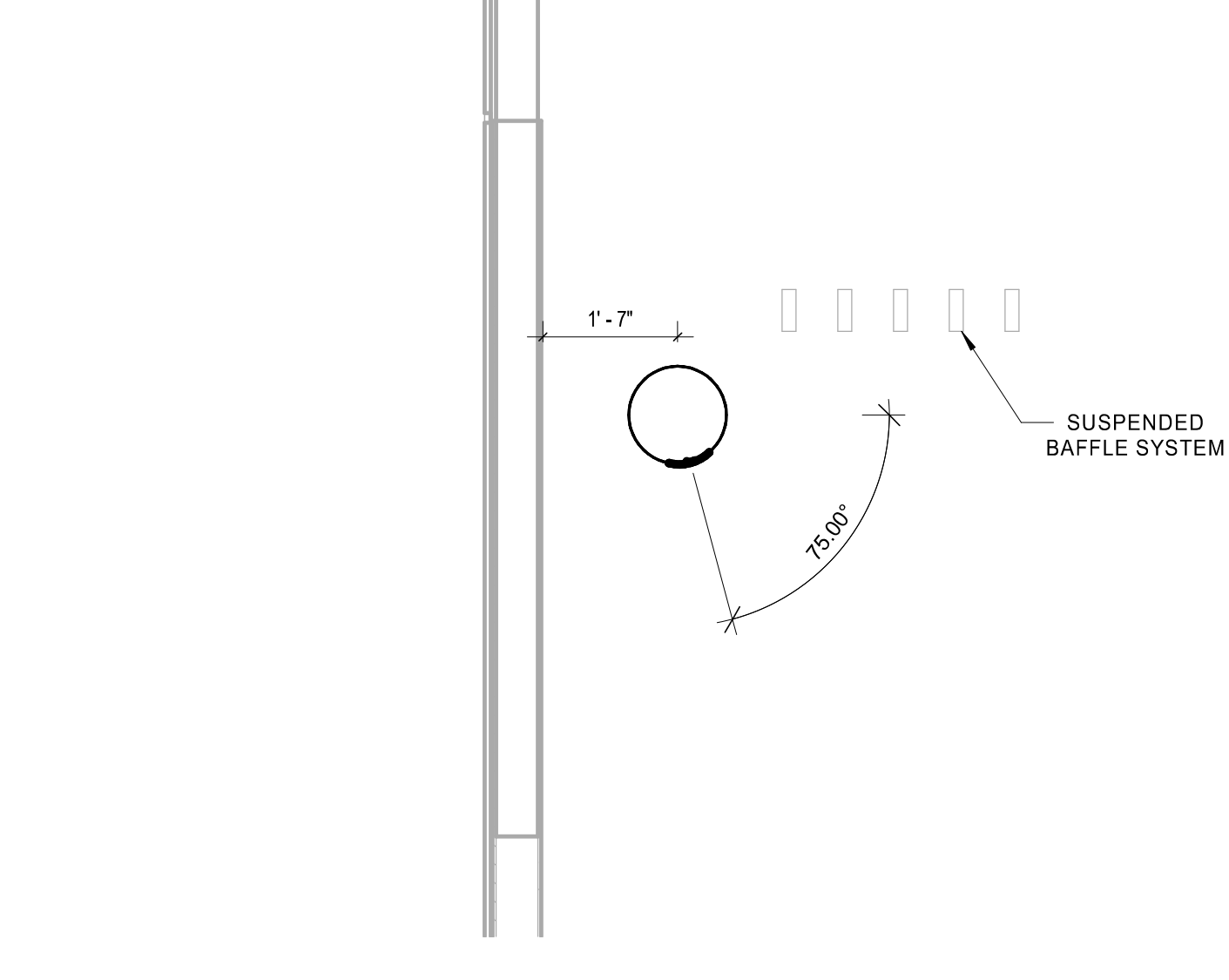
10 HVAC CONDENSATE PIPE ROOF SUPPORT DETAIL
 M4.0 NTS



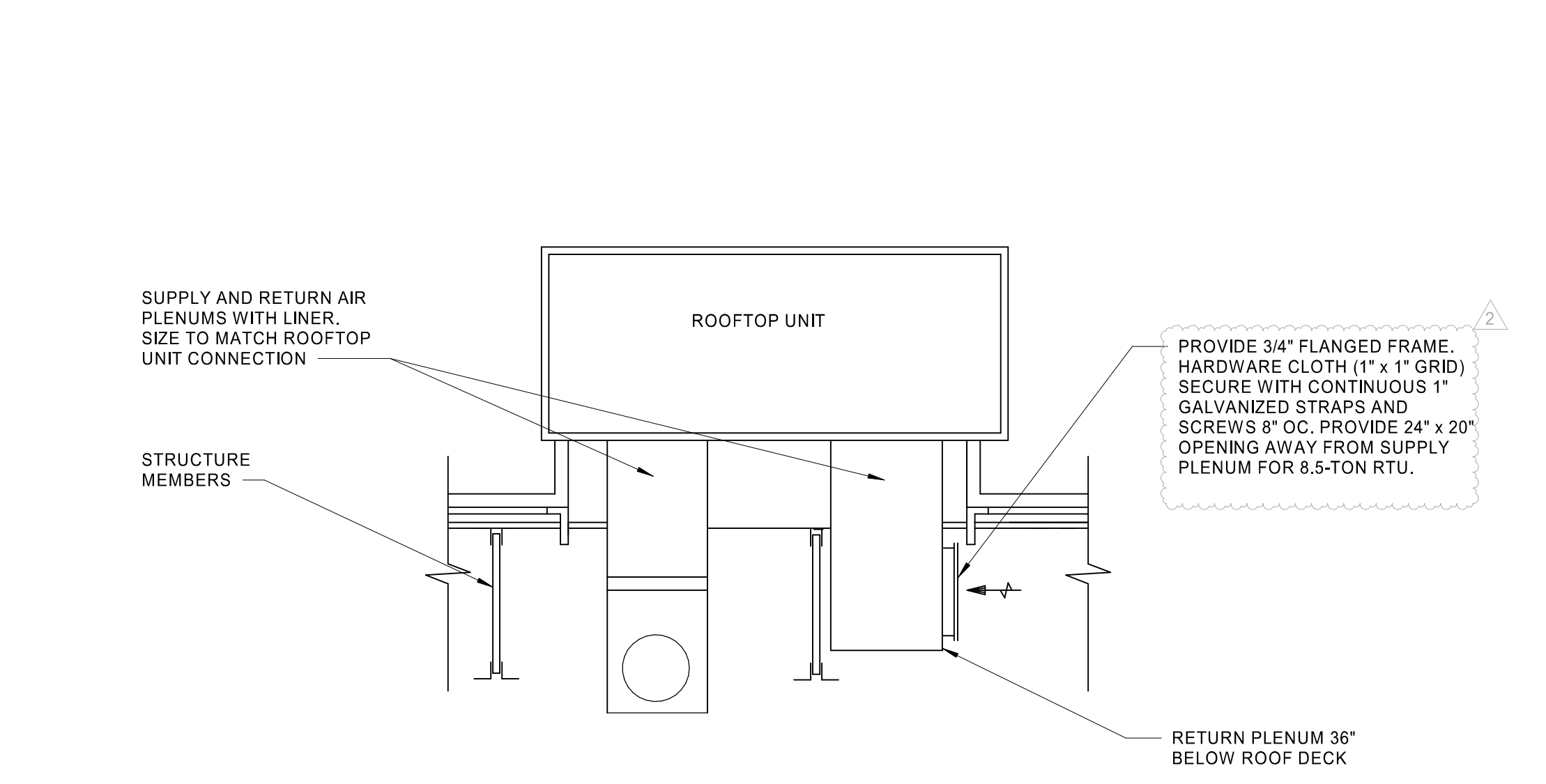
11 HVAC AIR CURTAIN INSTALLATION DETAIL
 M4.0 NTS



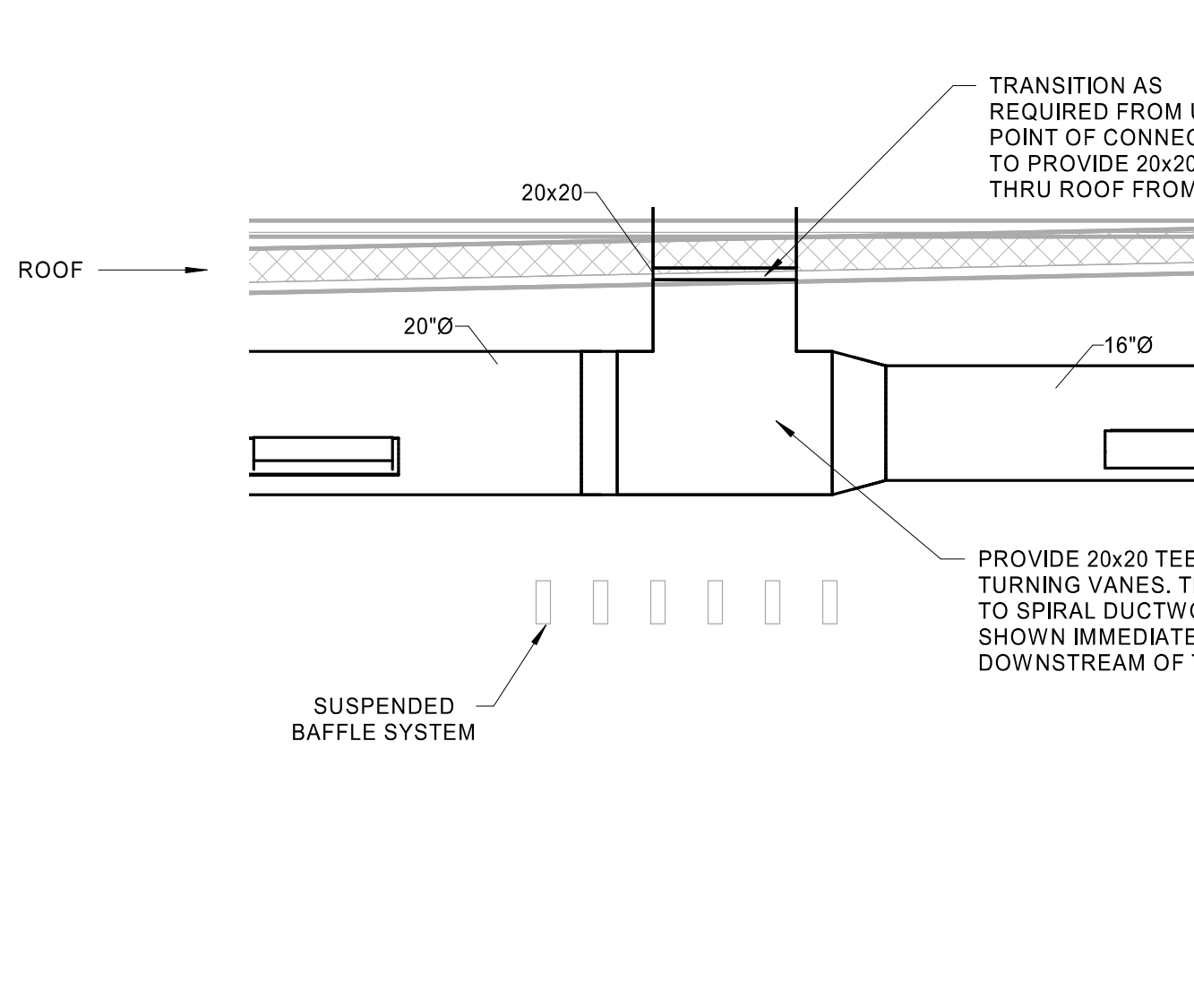
12 FRONT RETAIL DIFFUSER LAYOUT
 M4.0 14\"/>



13 FRONT RETAIL DIFFUSER ANGLE DETAIL
 M4.0 12\"/>



14 RTU DUCTWORK DROP DETAIL
 M4.0 NOT TO SCALE



15 RTU-2 SUPPLY DUCTWORK DROP
 M4.0 12\"/>

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 M4.0-MECHANICAL_DET.PLS-REV 2