

1 HVAC FLOOR PLAN  
M1.0 1/4" = 1'-0"

**KEY NOTES:**

- 1 REMOTE SMOKE DETECTOR TEST STATIONS FOR RTU-1, 2, & 3. TEST STATIONS TO BE MOUNTED ON THE MANAGERS OFFICE WALL. SECURITY CONTRACTOR SHALL WIRE RTU FACTORY MOUNTED SMOKE DETECTORS TO SECURITY/FIRE ALARM PANEL. MECHANICAL CONTRACTOR SHALL PROVIDE TEST STATION AND WIRING BETWEEN COMPONENTS AS WELL AS WIRING TO SHUT DOWN THE A/C FAN UPON ACTIVATION OF THE SMOKE DETECTOR. G.C. TO TEST THE SMOKE DETECTOR FUNCTIONS WITH THE WAWA PROJECT MANAGER.
- 2 WALL MOUNTED SENSOR(S) FOR EACH MECHANICAL UNIT PER ROOFTOP UNIT SCHEDULE ON SHEET M3.0. G.C. SHALL INSTALL AND WIRE TO UNIT. BAS CONTRACTOR SHALL CONNECT TO MECHANICAL UNIT ONLY.
- 3 COORDINATE EXACT LOCATION OF EXHAUST FAN PENETRATION WITH ARCHITECTURAL ROOF PLAN. INSTALL GALVANIZED DUCT WORK DOWN FROM FAN, INTO CEILING/JOIST SPACE, AND CONNECT TO CEILING GRILLES.
- 4 REFER TO TYPICAL DUCT PLENUM DETAIL ON SHEET M3.0.
- 5 COORDINATE DUCT WITH STRUCTURE IN THIS LOCATION. COORDINATE TAKEOFF LOCATIONS WITH ANGELED WEB MEMBERS.
- 6 PROVIDE SURFACE MOUNT ADAPTER FRAME TO ALLOW ACCESS TO CEILING ABOVE THROUGH DIFFUSER OPENING. SEE AIR DEVICE SCHEDULE.
- 7 ROUTE DUCT UNDER STRUCTURAL MEMBERS AT THIS LOCATION.
- 8 DUCTWORK TO RUN WITHIN JOIST SPACING. MECHANICAL CONTRACTOR TO COORDINATE MECHANICAL WORK WITH ALL TRADES PRIOR TO INSTALLATION.
- 9 DUCT TAKEOFF WITH DAMPER FROM BOTTOM OF MAIN DUCT.
- 10 TRANSFER DUCT ASSEMBLY.
- 11 PROVIDE SEALED 20"x20" PLENUM BOX ASSEMBLY ABOVE TRANSFER GRILLES TO ALLOW FLEX TRANSFER DUCT CONNECTIONS.
- 12 GRILLE OPEN TO ABOVE CEILING.
- 13 INSTALL EXHAUST FAN ABOVE CEILING PER DETAIL SHEET M3.0. FAN SHALL BE WIRED TO EMERGENCY SHUT-OFF SWITCH PROVIDED BY OTHERS. REFERENCE ARCHITECTURAL AND ELECTRICAL DRAWINGS.
- 14 MOUNT CENTER OF EXHAUST GRILLE AT 12" ABOVE FINISHED FLOOR. ROUTE DUCT SIZES AS SHOWN FROM GRILLE UP IN WALL CAVITY TO ABOVE CEILING. THEN TO EXHAUST FAN AND OUT TO EXTERIOR WALL LOUVER. COORDINATE DUCT ROUTING WITH ALL OTHER TRADES.
- 15 12"x12" EXTERIOR WALL LOUVER MODEL EHH-601D AS MANUFACTURED BY GREENHECK. INSTALL PER MANUFACTURERS RECOMMENDED INSTALLATION INSTRUCTIONS. FLORIDA PRODUCT APPROVAL #10089-1. PROVIDE WITH BIRD SCREEN, 1-1/2" FLANGE, AND ALUMINUM MULL FINISH.
- 16 EMERGENCY SHUT-OFF SWITCH AND WALL PLACARD INDICATING VENTILATION SYSTEM EMERGENCY SHUT-OFF PROVIDED BY OTHERS REFERENCE ELECTRICAL AND ARCHITECTURAL DRAWINGS.

**SHEET GENERAL NOTE:**

- A. MECHANICAL CONTRACTOR SHALL ADJUST ALL LINEAR SLOT DIFFUSERS TO A GENERALLY VERTICAL FLOW. ADJUSTMENT SHALL BE MADE SO AS TO AVOID AIRFLOWS ON SENSORS, REFRIGERATION CASES, OR OPEN FOOD REFRIGERATION EQUIPMENT.

**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
	SWITCH
	TYPE MARK
	MECHANICAL EQUIPMENT TAG
	CONDENSATE PIPING
	ROOF MOUNTED EXHAUST FAN
	INLINE EXHAUST FAN
	PACKAGED ROOFTOP AIR CONDITIONER

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**CUHACI  
PETERSON**

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CLIENT NAME  
**WAWA**  
260 WEST BALTIMORE PIKE  
WAWA, PENNSYLVANIA 19063

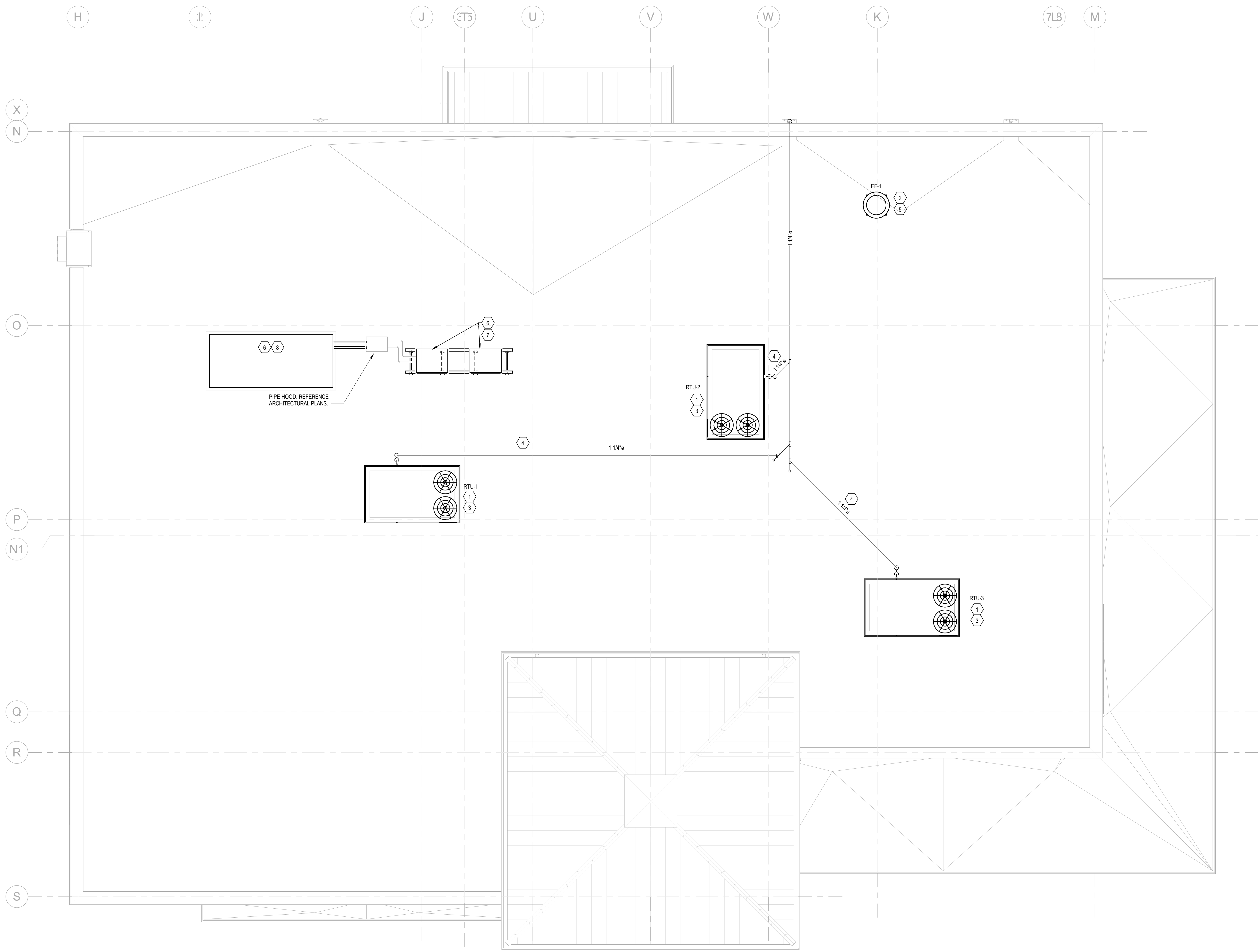
PROJECT NAME  
WAWA F85FB V21.3  
STORE #5413  
7707 24TH COURT EAST,  
SARASOTA, FL 34243

SHEET TITLE  
**HVAC FLOOR PLAN**

No.	Description	Date
1	PRELIM. SET	08/24/2022
2	MECH & PLUMB CHANGES	08/21/2023
3	BID SET	08/21/2023
4	CONSTRUCTION SET	08/28/2023

PROJECT NO.	DATE	DRAWN	CHECKED
220578	11-23-2022	PAK	JJD

**M1.0**



1 HVAC ROOF PLAN  
M2.0 1/4" = 1'-0"

**KEY NOTES:**

- 1 FACTORY INSTALLED SMOKE DETECTOR IN MAIN SUPPLY AND RETURN OF EACH ROOFTOP UNIT.
- 2 INSTALL ROOF MOUNTED EXHAUST FAN PER DETAIL ON SHEET M3.0. COORDINATE EXACT LOCATION OF FAN PENETRATION WITH ARCHITECTURAL ROOF PLAN. TRANSITION GALVANIZED DUCTWORK AS NECESSARY FROM FAN INTO CEILING/JOIST SPACE. SEE SHEET M1.0 FOR CONTINUATION.
- 3 PROVIDE FLEXIBLE CONNECTIONS BETWEEN ALL DUCTWORK AND MECHANICAL UNITS.
- 4 ROUTE SCH. 40 P.V.C. CONDENSATE DRAIN PIPING ALONG ROOF. SUPPORT PIPING PER DETAIL ON SHEET M3.0.
- 5 MAINTAIN A MINIMUM 10' CLEARANCE BETWEEN OUTSIDE AIR INTAKES AND EXHAUST TERMINATIONS ON ROOF.
- 6 FOOD SERVICE REFRIGERATION EQUIPMENT PROVIDED BY OTHERS.
- 7 FOOD SERVICE REFRIGERATION EQUIPMENT MOUNTED ON PRE-ENGINEERED RACK. REFER TO "CONDENSING UNIT ROOFING SUPPORT DETAIL" ON ARCHITECTURAL SHEETS FOR FLORIDA PRODUCT APPROVAL INFORMATION.
- 8 FOR SPECIFIC WIND LOADING REQUIREMENTS NOT TO EXCEED 140 MPH, SEE STRUCTURAL DRAWINGS.

**SHEET GENERAL NOTE:**

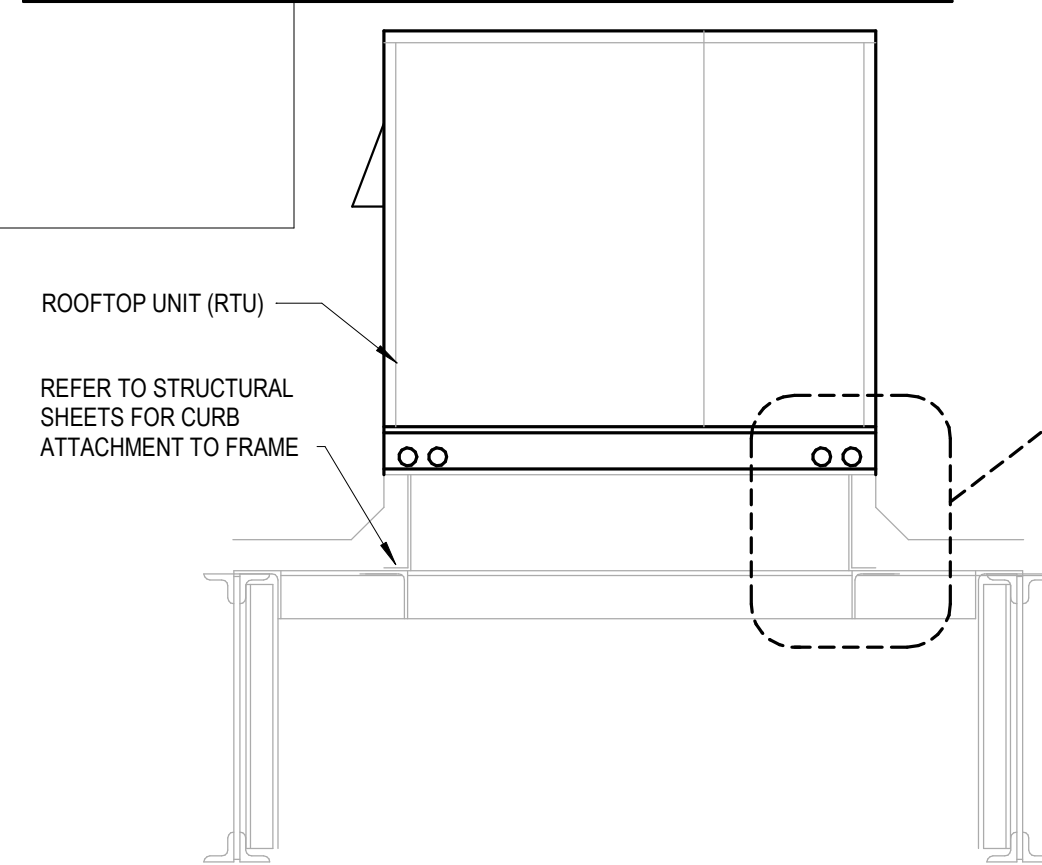
CONTRACTOR RESPONSIBLE FOR USING CURBS PLUS CLIPS ON ALL RTUS. CLIPS ARE DELIVERED TO SITE AS SEPARATE PACKAGE.

CLIENT NAME	WAWA 260 WEST BALTIMORE PIKE WAWA, PENNSYLVANIA 19063
PROJECT NAME	WAWA F85FB V21.3 STORE #5413 7707 24TH COURT EAST, SARASOTA, FL 34243
SHEET TITLE	HVAC ROOF PLAN

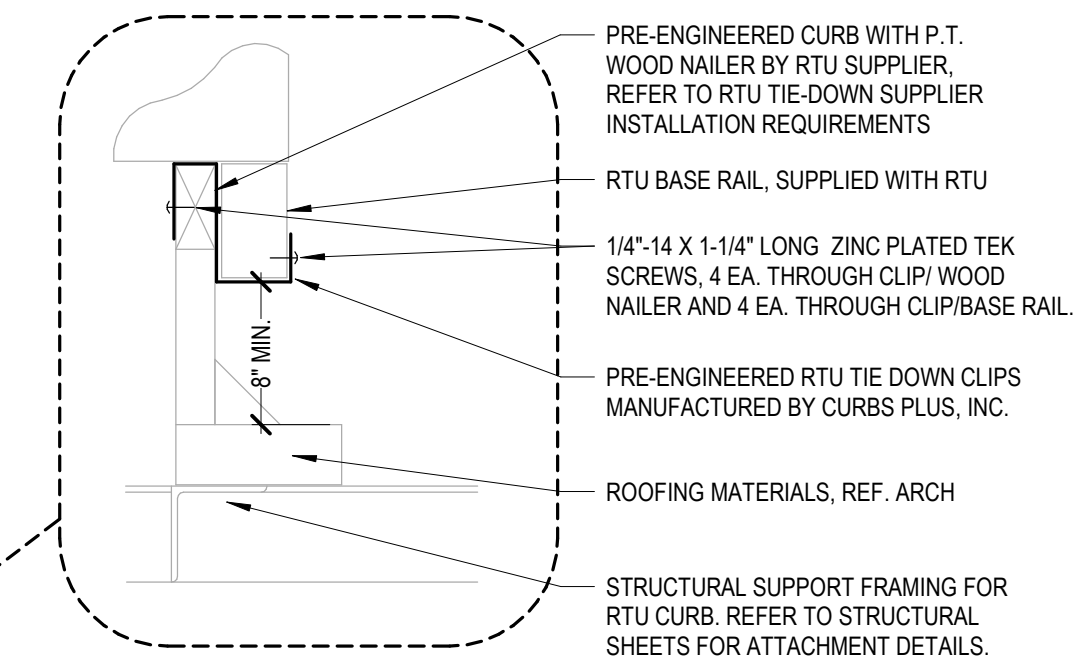
No.	Description	Date
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B	MECH & PLUMB CHANGES	08/21/2023
C	CONSTRUCTION SET	08/21/2023

PROJECT NO.	220578
DATE	11-23-2022
DRAWN	PAK
CHECKED	JJD

BUILDING LOCATION	WIND SPEED ZONE
SARASOTA, FL	(FBC FIGURE 1609A)
	140 MPH

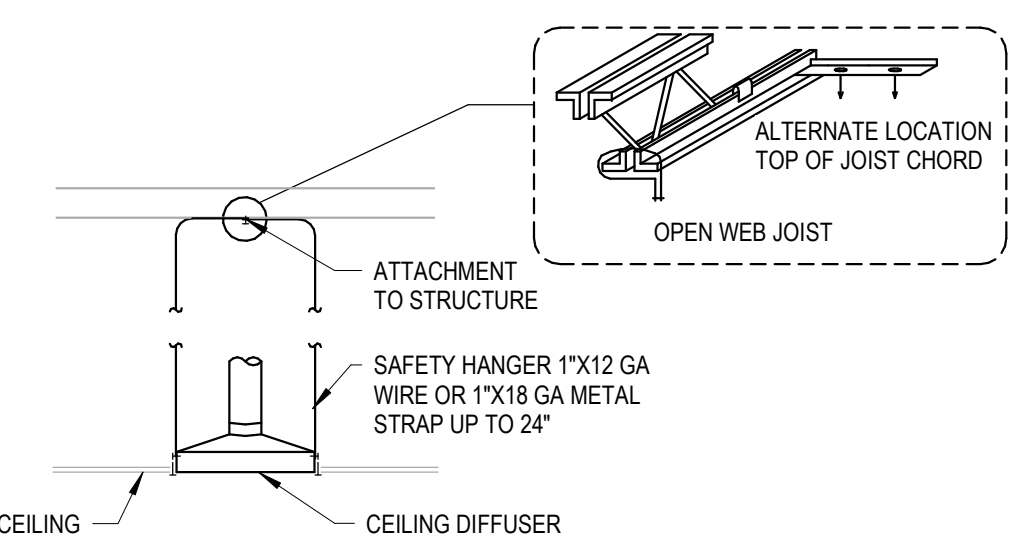
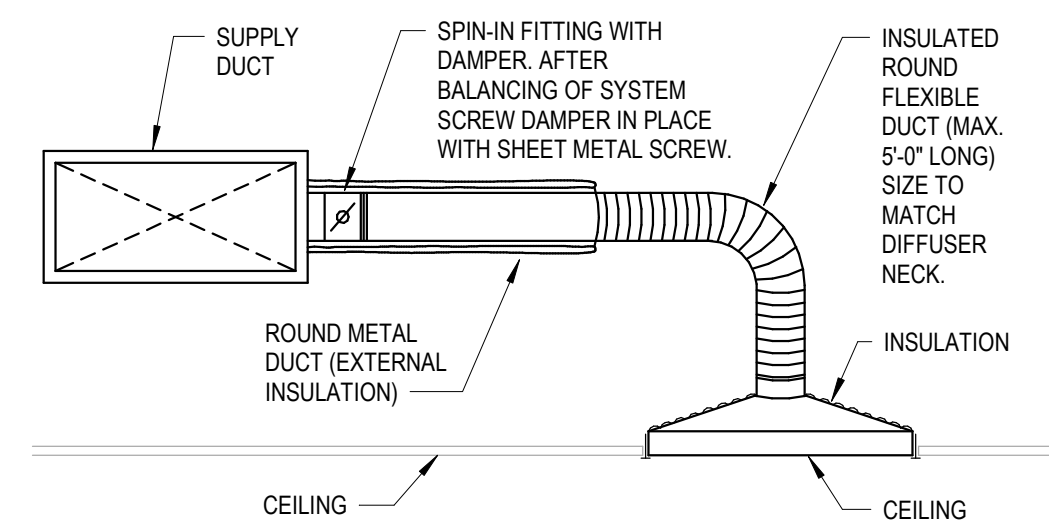


1 RTU TIE-DOWN DETAIL  
M3.0 NOT TO SCALE

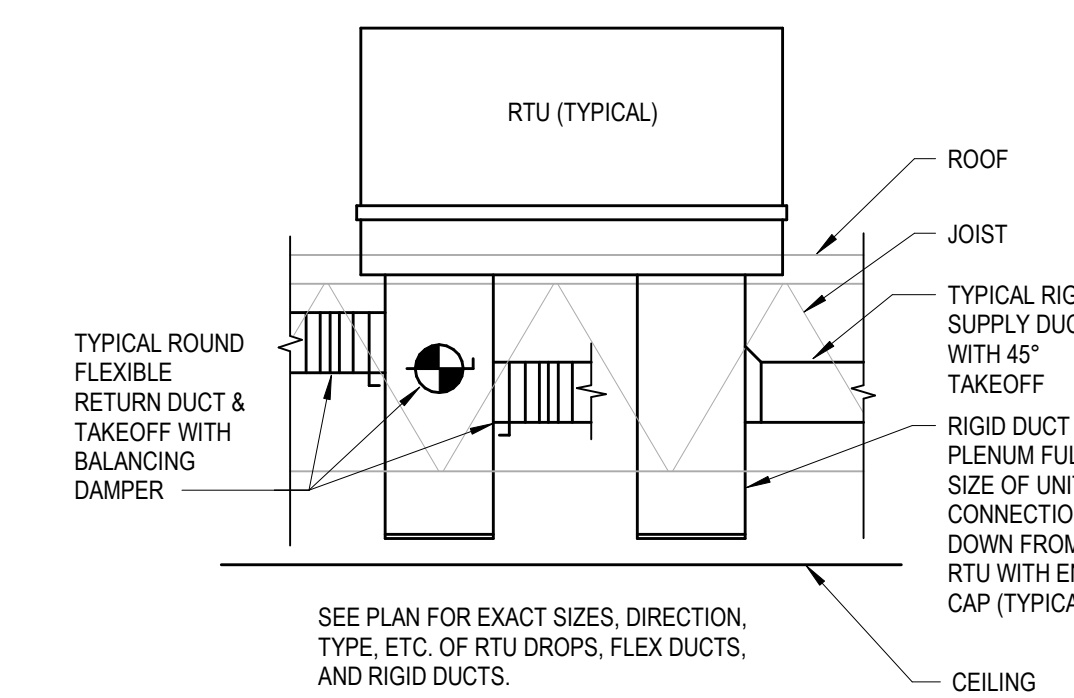


INSTALL THE DOWN CLIPS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS

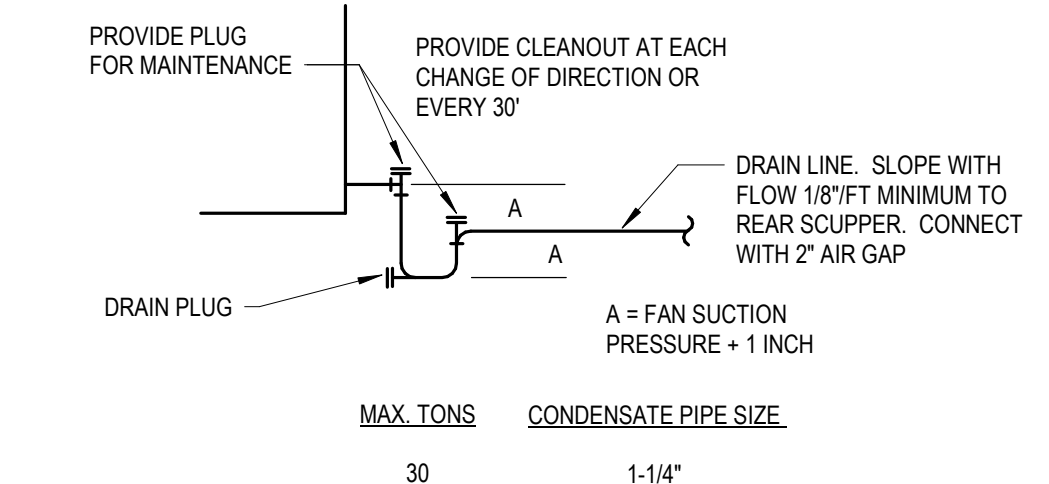
2 CEILING DIFFUSER RUNOUT DETAIL  
M3.0 NOT TO SCALE



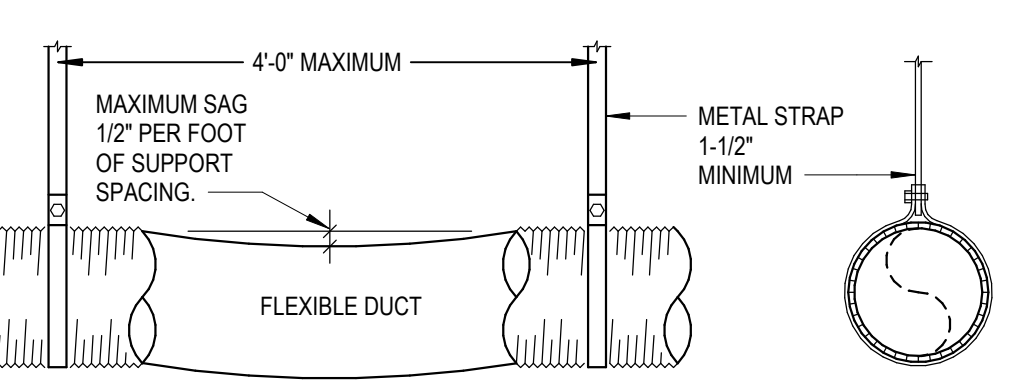
3 CEILING MOUNTED AIR DIFFUSER SUPPORT DETAIL  
M3.0 NOT TO SCALE



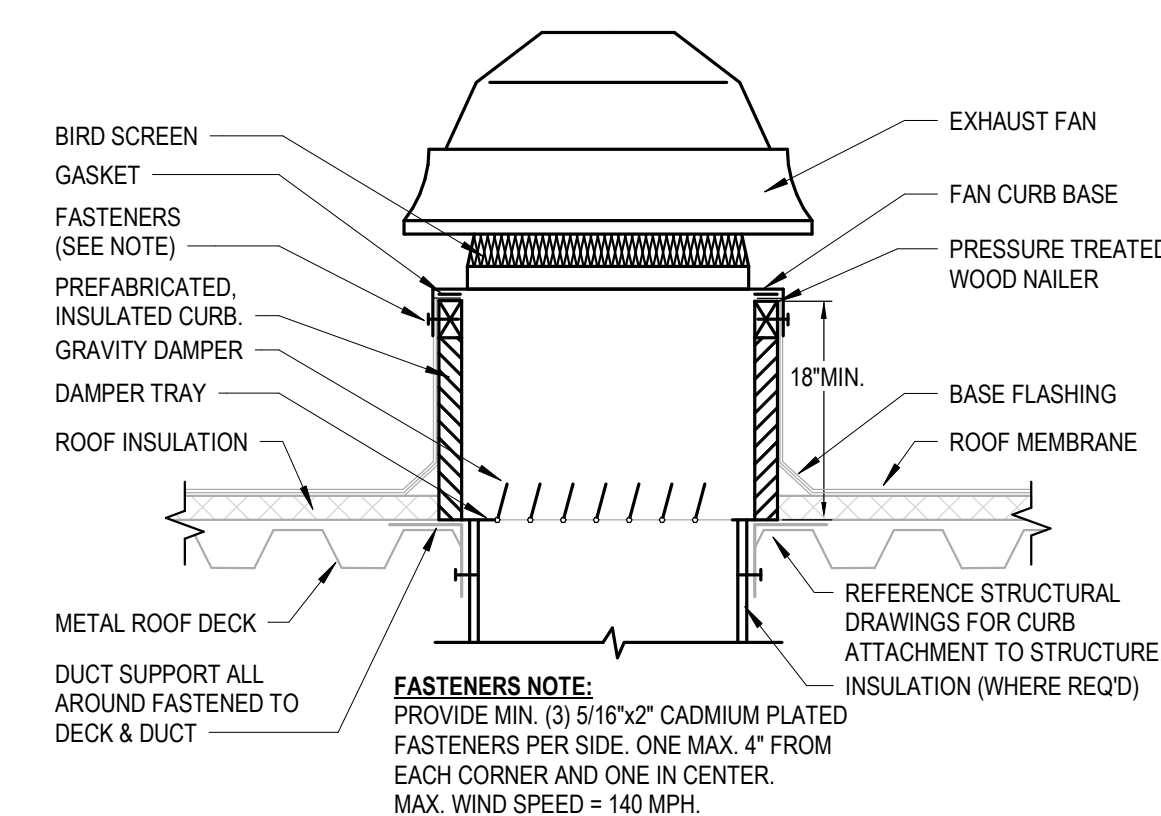
4 TYPICAL DUCT PLENUM DETAIL  
M3.0 NOT TO SCALE



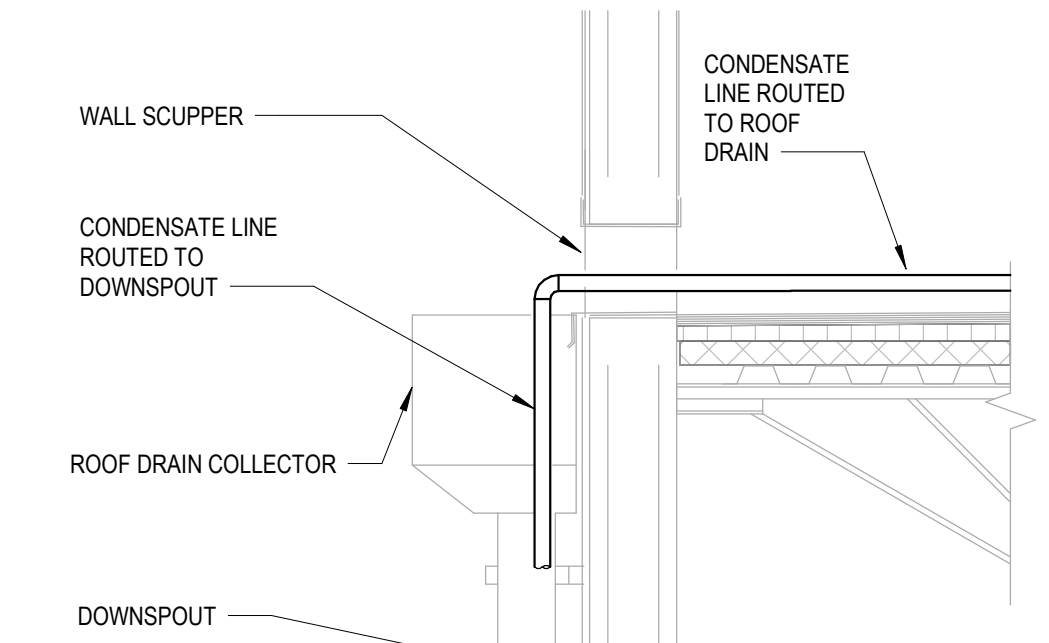
5 CONDENSATE DRAIN TRAP DETAIL  
M3.0 NOT TO SCALE



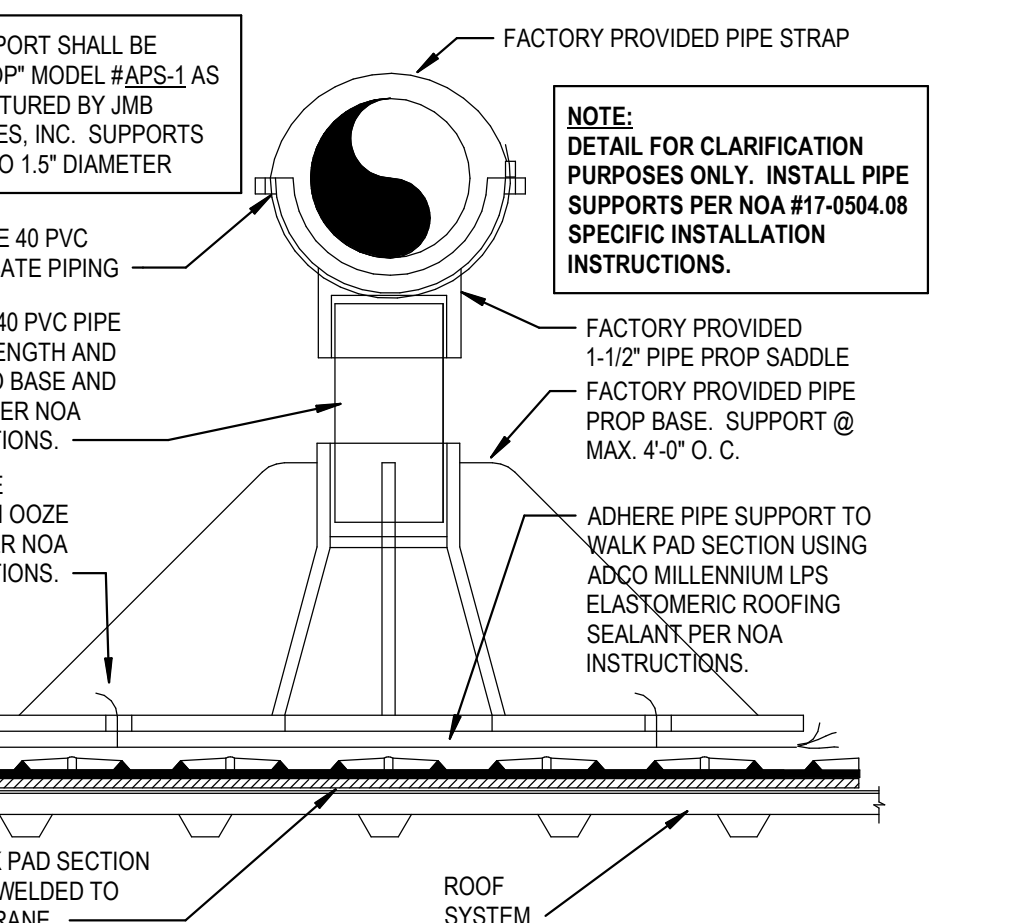
6 FLEX DUCT SUPPORT DETAIL  
M3.0 NOT TO SCALE



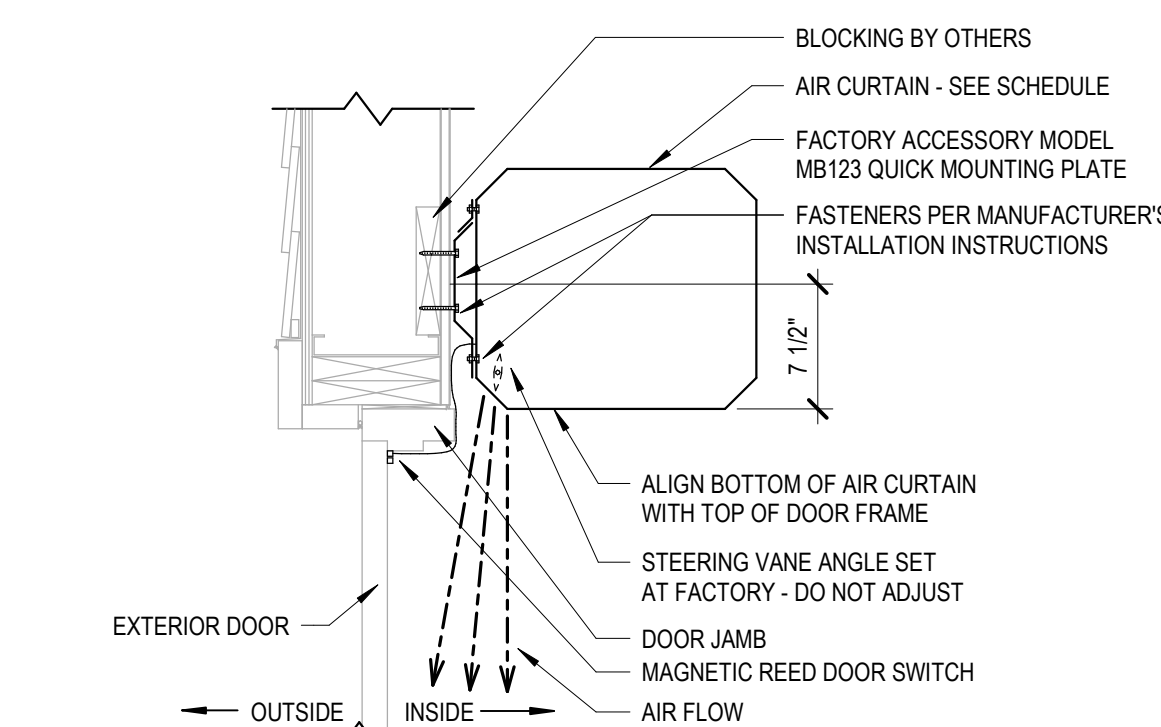
7 ROOF FAN MOUNTING DETAIL  
M3.0 NOT TO SCALE



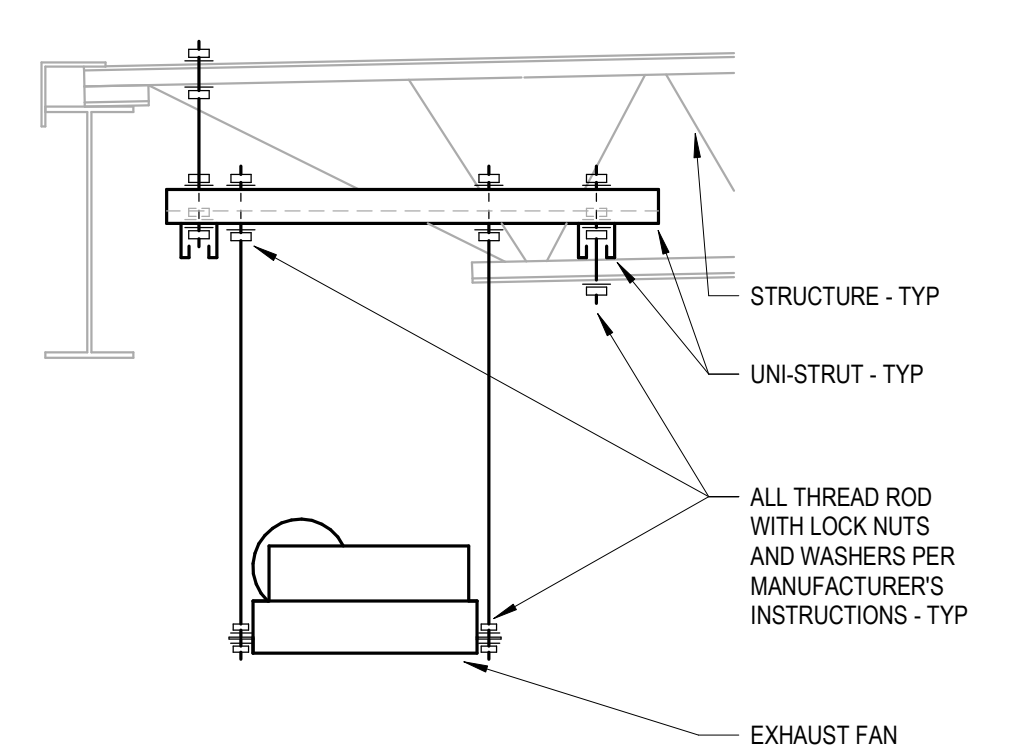
8 CONDENSATION TERMINATION DETAIL  
M3.0 NOT TO SCALE



9 CONDENSATE PIPE ROOF SUPPORT DETAIL  
M3.0 NOT TO SCALE



10 AIR CURTAIN INSTALLATION DETAIL  
M3.0 NOT TO SCALE



11 INLINE FAN MOUNTING DETAIL  
M3.0 NOT TO SCALE

HVAC GENERAL NOTES

- ALL MECHANICAL WORK SHALL BE IN STRICT ACCORDANCE WITH THE 2020 FLORIDA BUILDING CODE - MECHANICAL, SMACNA, UL, LOCAL CODES, MANUFACTURER'S RECOMMENDATIONS, AND ALL AUTHORITIES HAVING JURISDICTION.
- CONTRACTOR TO VISIT SITE AND VERIFY ALL CLEARANCES BEFORE FABRICATION OF DUCTWORK AND PROVIDE ADDITIONAL OFFSET AND/OR CHANGES IN DUCT SIZES TO MEET FIELD CONDITIONS AND COORDINATE WITH ELECTRICAL, PLUMBING AND FIRE PROTECTION SUBCONTRACTOR BEFORE ANY CONSTRUCTION WORK.
- SUPPLY AIR, RETURN AIR, OUTSIDE AIR AND EXHAUST AIR DUCTWORK SHALL BE SHEET METAL CONSTRUCTION. DUCT SHALL BE INSTALLED SECURELY SUPPORTED, HUNG OR SUSPENDED FROM THE STRUCTURE. JOINTS SHALL BE SEALED WITH 3\"/>

HVAC ROOFTOP UNIT SCHEDULE

MARK	AREA SERVED	NOMINAL TONS	SUPPLY AIR FAN DATA				ELECTRIC HEAT		UNIT POWER		WEIGHT (LBS. RTU ONLY)	COOLING CAPACITY			BASIS OF DESIGN								
			SUPPLY AIR CFM	OUTSIDE AIR CFM	E.S.P. (IN.)	HP	KW	CONTROL STAGES	VOLTAGE	PHASE		MCA	MOCP	TOTAL COOLING MBH	SENSIBLE COOLING MBH	EDB (DB°F/WH°F)	AMBIENT (DB°F/WH°F)	EER (EER)	MANUFACTURER MODEL	MODEL	NOTES		
RTU-1	RETAIL	8.5	3400	670	0.5	3.75	22.5	1	208 V	3	70	80	1357	98.1	75.4	76.5	63.9	95/79	12.3	[15.7]	LENNOX ENLIGHT	LCT102H4E	1-20
RTU-2	FOOD SERVICE	12.5	5000	900	0.5	3.75	N/A	N/A	208 V	3	64	80	1342	146.1	136	75.2	62.5	95/79	11.0	[14.6]	LENNOX ENLIGHT	LCT150H4E	2-20
RTU-3	RETAIL	7.5	3000	400	0.5	3.75	22.5	1	208 V	3	70	80	1350	91.8	68.7	76.1	63.5	95/79	12.5	[15.7]	LENNOX ENLIGHT	LCT092H4E	2-20

- NOTES:
- PROVIDE CO2 SENSOR FOR INTERLINK WITH BUILDING AUTOMATION SYSTEM.
  - PROVIDE LENNOX HUMIDITROL HOT GAS REHEAT OPTION.
  - PROVIDE REMOTE WALL MOUNTED COMBINATION TEMPERATURE/HUMIDITY SENSOR MODEL 21W06
  - REFER TO CONTROL SYSTEM NOTES FOR CONTROL COMPONENTS REQUIREMENTS.
  - PROVIDE 5-MINUTE ANTI-SHORT CYCLE TIMER.
  - PROVIDE THRU THE BASE ELECTRICAL AND SINGLE POINT CONNECTION.
  - PROVIDE WITH FACTORY 2\"/>

OUTSIDE AIR CALCULATION

AREA SERVED	AREA (SQFT)	PEOPLE / 1000 SQFT	# PEOPLE	CFM PERSON	PEOPLE O.A. RECD (CFM)	CFM SOFT	CFM OUTSIDE AIR (CFM)	TOTAL CFM CALCULATED	CFM SUPPLIED
OFFICE	70	5	2	5	10	0.06	5	15	
ASSOCIATE	100	5	2	5	10	0.06	6	16	
DELIVERY	78	2	1	10	10	0.12	10	20	
RETAIL	1904	15	29	7.5	218	0.12	229	447	610
								RTU-1	498
								RTU-2	207
								RTU-3	540
STAGING	116	2	1	10	10	0.12	14	24	
WASHROOM	174	20	4	7.5	30	0.12	21	51	
COFFEE	242	20	5	7.5	38	0.12	30	68	
RETAIL	559	15	9	7.5	68	0.12	68	136	
								RTU-3	279

- NOTES:
- OCCUPANCY LOAD VENTILATION RATES ARE BASED ON NET OCCUPIABLE SPACE IN ACCORDANCE WITH THE 2020 FLORIDA BUILDING CODE - MECHANICAL CODE, TABLE 403.3.1.1.
  - ANTICIPATED NUMBER OF PEOPLE IS BASED ON AN OCCUPANCY LOAD FACTOR (# PEOPLE/SF) VALUE (BASED ON THE 2020 FLORIDA BUILDING CODE - MECHANICAL CODE, TABLE 403.3.1.1).

AIR BALANCE SCHEDULE

SYSTEM	CFM
RTU-1	+610
RTU-2	+900
RTU-3	+540
EF-1	-1500
BUILDING POSITIVE PRESSURE	+500

RTU-1, 2, & 3 TEST AND BALANCE NOTES

- TEST AND BALANCE CONTRACTOR TO OBTAIN INITIAL BALANCE OF COOLING CFM FOR RTU USING FAN SFAE ADJUSTMENT TO WITHIN +/- 3% SCHEDULED COOLING CFM. PRODIGY CONTROLLER MAY BE USED FOR FINAL 5% TO OBTAIN SCHEDULED COOLING CFM.
- SET MINIMUM OUTSIDE AIR DAMPER POSITION FOR COOLING AND VERIFY OUTSIDE AIR CFM PER RTU SCHEDULE.
- NOT USED.
- NOT USED.
- USING PRODIGY CONTROLLER, VERIFY HEATING CFM EQUALS COOLING CFM.
- ALL PRODIGY CONTROLLER SETTINGS OTHER THAN THOSE MENTIONED ABOVE SHALL REMAIN AS THEIR DEFAULT VALUE AS SET FROM THE FACTORY.
- VERIFY POSITIVE BUILDING PRESSURE.

RTU-1, 2, & 3 SEQUENCE OF OPERATION

- SUPPLY AIR BLOWER SPEED UNIT HAS FOLLOWING SUPPLY AIR BLOWER SPEED SETTINGS THAT PERTAIN TO THIS INSTALLATION:
- COOLING AIR BLOWER SPEED
  - HEATING AIR BLOWER SPEED
- COOLING MODE
- Y1 DEMAND: COMPRESSOR 1 OPERATES AND SUPPLY AIR BLOWER OPERATES AT COOLING SPEED.
  - Y2 DEMAND: ALL COMPRESSORS OPERATE AND SUPPLY AIR BLOWER OPERATES AT COOLING SPEED.
- DEHUMIDIFICATION MODE
- IF THE UNIT RECEIVES A CALL FOR DEHUMIDIFICATION, ECONOMIZER FREE COOLING IS LOCKED OUT (ON UNITS EQUIPPED WITH ECONOMIZER).
  - CALL FOR DEHUMIDIFICATION, NO Y1, Y2 DEMAND: 1ST STAGE COMPRESSOR OPERATES, SUPPLY AIR BLOWER OPERATES AT COOLING SPEED, AND THE REHEAT VALVE IS ENERGIZED.
  - Y1 DEMAND WITH A CALL FOR DEHUMIDIFICATION: ALL COMPRESSORS OPERATE, SUPPLY AIR BLOWER OPERATES AT COOLING SPEED AND THE REHEAT VALVE IS ENERGIZED.
  - Y2 DEMAND WITH A CALL FOR DEHUMIDIFICATION: ALL COMPRESSORS OPERATE, SUPPLY AIR BLOWER OPERATES AT COOLING SPEED, AND THE REHEAT VALVE IS DE-ENERGIZED.
- HEATING MODE (ELECTRIC HEAT)
- Y1 DEMAND: 1ST STAGE ELECTRIC HEAT IS ENERGIZED AND THE SUPPLY AIR BLOWER OPERATES AT HEATING SPEED.
  - Y2 DEMAND: 2ND STAGE ELECTRIC HEAT IS ENERGIZED AND THE SUPPLY AIR BLOWER OPERATES AT HEATING SPEED.
- MODULATING OUTDOOR AIR DAMPER
- THE MINIMUM DAMPER POSITION FOR 'OCCUPIED HIGH BLOWER' IS ADJUSTED DURING UNIT SETUP TO PROVIDE MINIMUM FRESH AIR REQUIREMENTS PER RTU SCHEDULE.
  - WHEN SUPPLY AIR BLOWER IS OFF, THE OUTDOOR AIR DAMPER IS CLOSED.
  - WHEN UNIT IS IN OCCUPIED MODE AND SUPPLY AIR BLOWER IS OPERATING, THE OUTDOOR AIR DAMPER IS AT MINIMUM 'HIGH BLOWER' POSITION.

HVAC EXHAUST FAN SCHEDULE

MARK	CFM	EXT. STATIC PRESSURE	FAN TYPE	DRIVE TYPE	SONES	HP	FAN RPM	VOLTAGE	PHASE	BASIS OF DESIGN		NOTES
										MANUFACTURER	MODEL	
EF-1	1500 CFM	0.250 B-WG	DOWNBLAST	DIRECT	6.9	3/4	700	120 V	1	GREENHECK	G-160	1-2
EF-2	60 CFM	0.125 B-WG	INLINE	DIRECT	0.3	21 WATTS	584	120 V	1	GREENHECK	CSP-B10	3

- NOTES:
- NO SUBSTITUTIONS PERMITTED-
  - PROVIDE WITH FACTORY DISCONNECT, FACTORY WIRED SOLID STATE SPEED CONTROLLER, 18\"/>

HVAC AIR DEVICE SCHEDULE

TYPE MARK	MANUFACTURER	MODEL	SERVICE	DESCRIPTION	MOUNTING TYPE	MATERIAL	NECK SIZE	FACE SIZE	NOTES
CD-1	PRICE	AMD	SUPPLY	LOUVERED FACE DIRECTIONAL DIFFUSER	ALUMINUM	18\"/>			

- NOTES:
- NO SUBSTITUTIONS PERMITTED-
  - FOR LAY-IN CEILINGS PROVIDE WITH 18\"/>

HVAC AIR CURTAIN SCHEDULE

MARK	AREA SERVED	BASIS OF DESIGN		NOZZLE CFM	HP	VOLTAGE	PHASE	MOUNTING HEIGHT	NOTES
		MANUFACTURER	MODEL						
AC-1	STAGING	POWERED AIRE	BCE-1-48	2155 CFM	0.5	120 V	1	7'-2"	1-4
AC-2	DELIVERY VESTIBULE	POWERED AIRE	BCE-1-48	2155 CFM	0.5	120 V	1	7'-2"	1-4

- NOTES:
- NO SUBSTITUTIONS PERMITTED-
  - MOUNT INSIDE BUILDING ABOVE DOOR AT 7'-2\"/>

LENNOX SETUP PARAMETERS - FLORIDA STORES (R2)

- UNIT ID CONFIGURATIONS (MECHANICAL CONTRACTOR TO DEFINE / AS APPLICABLE):
- BACNET CONFIGURATION: GO TO SETTINGS-GENERAL-CONFIGURATION ID POSITION 5 SET TO 'B'.
  - NETWORK CONFIGURATION: GO TO SETUP-NETWORK INTEGRATION, SET TO BACNET.
  - CONTROL MODE: SET CONTROL MODE TO ROOM SENSOR, CO2, TEMP & HUMIDITY (PER UNIT, AS NEEDED).
- INDIVIDUAL PARAMETER CONFIGURATIONS (MECHANICAL CONTRACTOR TO DEFINE / AS APPLICABLE):
- PARAMETER 105 DEHUMID MODE: 7 NO CONDITIONS.
  - PARAMETER 106 DEMAND 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: 200.
  - PARAMETER 119 CO2 FULL OPEN PPM: 1500.
  - PARAMETER 137 CO2 HEAT SET POINT: 68 (BACK UP).
  - PARAMETER 139 CO2 COOLING SET POINT: 72 (BACK UP).
  - PARAMETER 154 CO2 BLOWER MODE: ON-CONTINUOUS 1.

- CFM VALUES / MS4U FAN SPEEDS (AIR BALANCER TO DEFINE / IF APPLICABLE):
- HEAT COOL 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.

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C-p.com

CUHACI  
PETERSON

PROJECT NAME  
WAWA STORE #5413

7707 24TH COURT EAST,  
SARASOTA, FL 34243

CLIENT NAME  
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HVAC SCHEDULES, NOTES AND DETAILS