

**John Franz Architect**  
 ARCHITECTURE-INTERIOR ARCHITECTURE-PLANNING (017)2736678  
 405 INTERNATIONAL PLAZA, SUITE 100 FORT WORTH, TEXAS 76109

**SHELL BUILDING**  
 920 STRICKLAND BRIDGE  
 FAYETTEVILLE, NORTH CAROLINA 28304

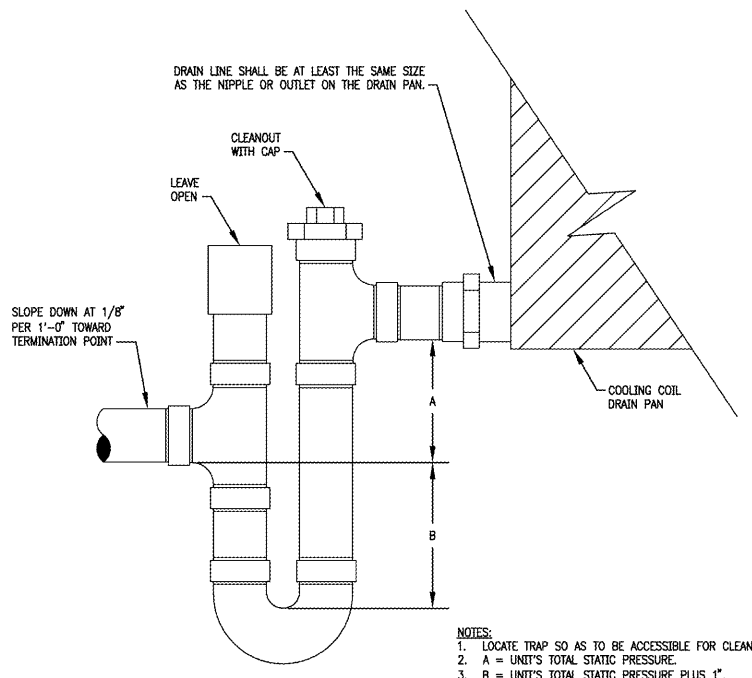
Revisions:  
 City Comments 10/21/19  
 Utility Coordination 01/20/20

File Name: 19033  
 Project No: 19033  
 Date: 04/16/19  
 Drawn By:  
 Checked By:

SHEET  
**M301**  
 MECHANICAL  
 DETAILS

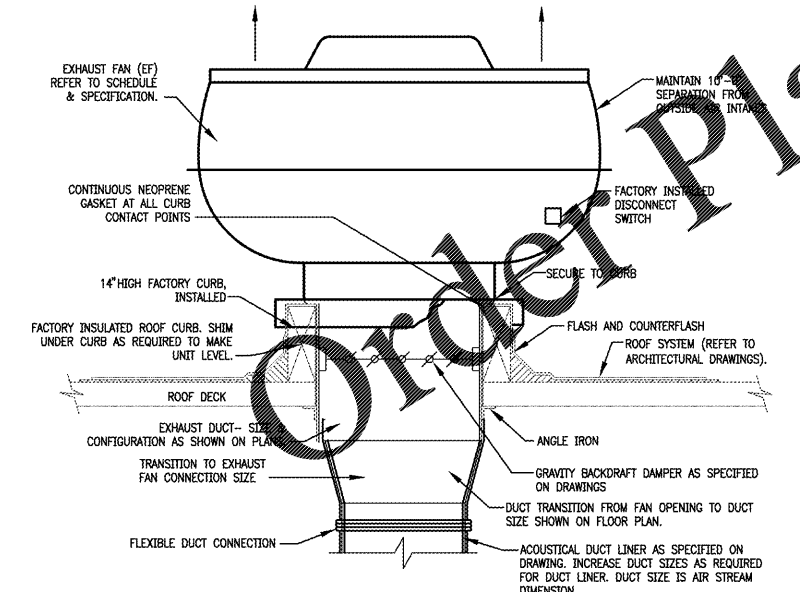
GENERAL										MECHANICAL										ELECTRICAL			REMARKS			
DESIG.	MFR.	MODEL #	DIMENSIONS (LxWxH) (IN.)	WEIGHT (LBS)	CAPACITY (NOV. TONS)	FAN				TOTAL CAPACITY (NOV. TONS)	SENSIBLE CAPACITY (MBH)	COOLING					HEATING		VOLT/PH	MCA	MOCP					
						5A	5A	5A	5A			TEMPERATURE (°F)	EAT	LAT	DB	WB	DB	WB				STAGES		STAGES		
RTU-1	TRANE	YHC120	100x64x63	1,375	10.0	4000	1000	0.50	3.75	N/A	107.1	89.7	80	67	59.2	58.2	105	2	12.4	120.0	150.0	2.0	208/3	46.1	60	1-15
RTU-2	TRANE	YHC120	100x64x63	1,375	10.0	4000	1000	0.50	3.75	N/A	107.1	89.7	80	67	59.2	58.2	105	2	12.4	120.0	150.0	2.0	208/3	46.1	60	1-15

- NOTES:**
- EQUIPMENT TO BE CLEARLY LABELED.
  - ACCEPTABLE MANUFACTURERS: CARRIER, TRANE.
  - COORDINATE EXACT LOCATION WITH LANDLORD AND STRUCTURAL ENGINEER.
  - INSTALL UNITS LEVEL FOR PROPER CONDENSATE DRAINAGE, SHIM CURBS AS REQUIRED.
  - IF LOCATION IS WITHIN 50 MILES OF SALT WATER COASTAL ENVIRONMENTS, ALL EQUIPMENT THAT COMES IN CONTACT WITH OUTSIDE AIR SHALL BE COATED FOR SALTWATER CORROSION RESISTANCE.
- REMARKS:**
- FACTORY MOUNTED, NON-FUSED DISCONNECT SWITCH AND SINGLE POINT POWER CONNECTION.
  - 14" HIGH, INSULATED FACTORY ROOF CURB.
  - THRU BASE ELECTRICAL CONNECTIONS.
  - 7 DAY PROGRAMMABLE THERMOSTAT.
  - SLOPED CONDENSATE DRAIN PAN WITH THRU BASE CONDENSATE DRAIN AND FLOAT SWITCH.
  - SINGLE ENTHALPY DRY BULB ECONOMIZER WITH BAROMETRIC RELIEF DAMPERS AND HOODS.
  - HAIL GUARDS ON CONDENSER COILS.
  - HINGED ACCESS DOORS.
  - NON-POWERED CONVENIENCE OUTLET.
  - VFD WITH INTEGRAL DISCONNECT.
  - FACTORY MOUNTED RETURN AIR SMOKE DETECTOR (VERIFY LOCATION).
  - ADD 250 LBS FOR NEW ROOF CURB PLUS ACCESSORIES TO WEIGHT LISTED IN TABLE.
  - ALL ROOF TOP UNITS OVER 7,000 CFM TO CONTAIN A PREWIRED SMOKE DETECTOR IN THE RETURN AIR PATH OF THAT SPECIFIC UNIT. COORDINATE FINAL LOCATION WITH A/E.
  - POWERED EXHAUST TO BE ADDED TO ROOF TOP UNITS OVER 7.5 TONS.
  - DEMAND CONTROL VENTILATION.

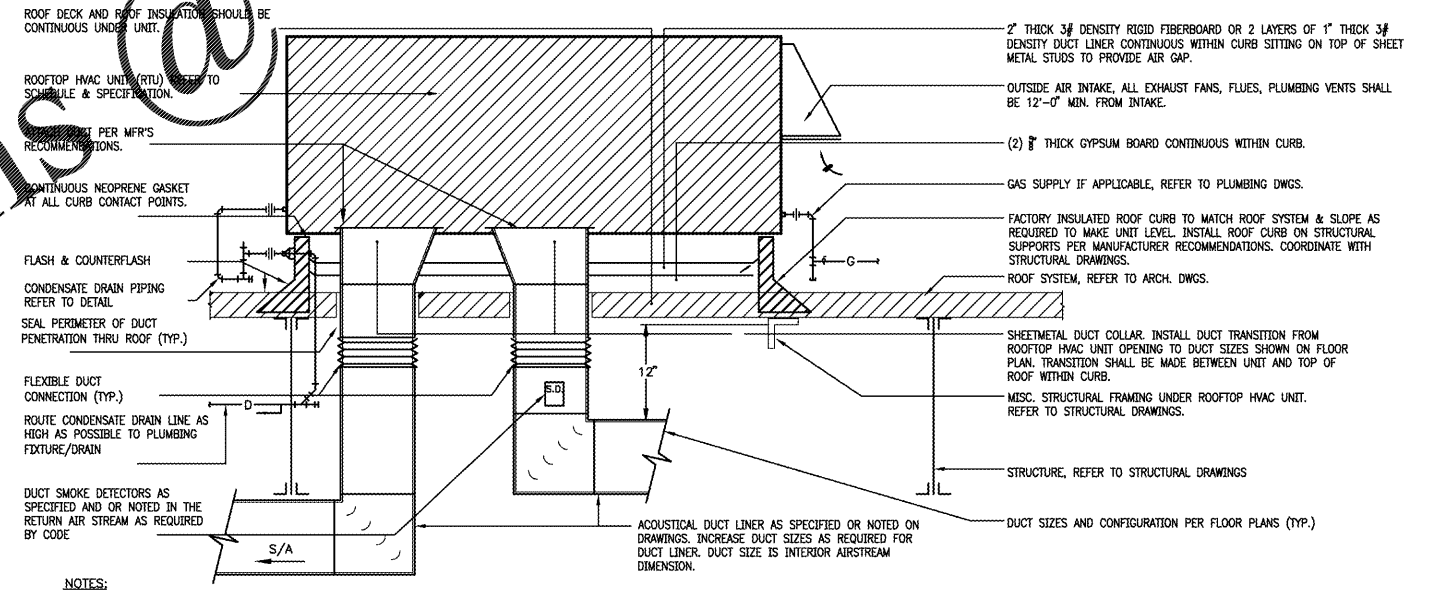


**1 CONDENSATE P-TRAP DETAIL**  
 SCALE NOT TO SCALE

- NOTES:**
- ALL ROOF PENETRATIONS, ROOF FLASHING, CURBS TO BE COMPATIBLE WITH ROOF SYSTEM TYPE, & AS RECOMMENDED BY THE ROOFING SYSTEM MANUFACTURER. REFER TO ARCHITECTURAL DRAWINGS FOR ALL ROOF PENETRATIONS & FLASHING DETAILS.
  - LOCATE EQUIPMENT APPROX. AS SHOWN ON FLOOR PLANS IN GENERAL LOCATION SHOWN, BUT CONFORM TO ALL STRUCTURAL AND FINISH CONDITIONS OF BUILDING. CONTRACTOR SHALL PROVIDE ANY ADDITIONAL SUPPORTS, HANGERS, OPENINGS, ETC., AS REQUIRED FOR A COMPLETE INSTALLATION. ALL EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS, IN FULL ACCORDANCE WITH ALL APPLICABLE CODES HAVING JURISDICTION.
  - UPBLAST EXHAUST FAN SHOWN, DOWNBLAST FAN SIMILAR. REFER TO ACCESSORY/OPTION AS SPECIFIED ON DRAWING.
  - COORDINATE STRUCTURAL FRAMING WITH STRUCTURAL ENGINEER AS REQUIRED.



**3 UPBLAST ROOF EXHAUST FAN DETAIL**  
 SCALE NOT TO SCALE



- NOTES:**
- ALL ROOF PENETRATIONS, ROOF FLASHING, CURBS TO BE COMPATIBLE WITH ROOF SYSTEM TYPE, & AS RECOMMENDED BY THE ROOFING MANUFACTURER, MAINTAIN ALL ROOF WARRANTIES. REFER TO ARCHITECTURAL DRAWINGS FOR ALL ROOF PENETRATIONS AND FLASHING DETAILS.
  - LOCATED EQUIPMENT APPROX. AS SHOWN ON FLOOR PLANS IN GENERAL LOCATION SHOWN, BUT CONFORM TO ALL STRUCTURAL AND FINISH CONDITIONS OF BUILDING. CONTRACTOR SHALL PROVIDE ANY ADDITIONAL SUPPORTS, HANGERS, OPENINGS, ETC., AS REQUIRED FOR A COMPLETE INSTALLATION. ALL EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

**2 ROOFTOP HVAC UNIT DETAIL**  
 SCALE NOT TO SCALE

Roof top HVAC Unit - Ducted Return

Gregory C. Speer  
 5020 Tenyson Pkwy. - Plano, TX 75024  
 Phone (214) 432-3030 / Fax (214) 618-8191

CONTRACTOR SHALL COORDINATE  
 MEP DRAWINGS WITH ALL OTHER  
 DISCIPLINES

AOS JOB #: 25669-002-19