

- GENERAL HVAC NOTES**
1. PROVIDE NEW SUPPLY AIR AND RETURN AIR FLEXIBLE DUCT CONNECTIONS TO REPLACE EXISTING AFTER NEW ROOFTOP UNIT IS INSTALLED TO REPLACE EXISTING.
  2. EXTEND AND CONNECT EXISTING CONDENSATE DRAIN LINE TO NEW ROOFTOP UNIT. PROVIDE NEW PIPING AND ACCESSORIES TO COMPLETE CONDENSATE DRAIN SYSTEM.
  3. PROVIDE AND INSTALL NEW RTU WIND SEISMIC RESTRAINT BRACKETS. (RAHU-1 AND RAHU-2 NOT REQUIRED TO HAVE WIND SEISMIC RESTRAINT BRACKET = 11,119 LBS EACH)
  4. REFER TO ELECTRICAL DRAWINGS FOR POWER CONNECTIONS AND PLUMBING DRAWINGS FOR GAS CONNECTIONS.

- HVAC KEYED NOTES**
- 1 NEW PACKAGED ROOFTOP UNIT AND NEW ROOF CURB ADAPTER TO REPLACE EXISTING.
  - 2 EXTEND EXISTING RETURN AIR DUCT TO NEW RETURN AIR OPENING IN NEW ROOFTOP UNIT AS REQUIRED. FIELD-VERIFY THE SIZE OF RETURN AIR INLET.
  - 3 EXTEND EXISTING SUPPLY AIR DUCT TO NEW SUPPLY AIR OPENING IN NEW ROOFTOP UNIT AS REQUIRED. FIELD-VERIFY THE SIZE OF SUPPLY AIR INLET.
  - 4 FULL SIZE CONDENSATE DRAIN LINE DOWN THRU ROOF CONNECTED TO EXISTING CONDENSATE DRAIN LINE BELOW ROOF.
  - 5 OUTSIDE AIR INTAKE

1 HVAC ROOF PLAN  
SCALE: 3/32" = 1'-0"

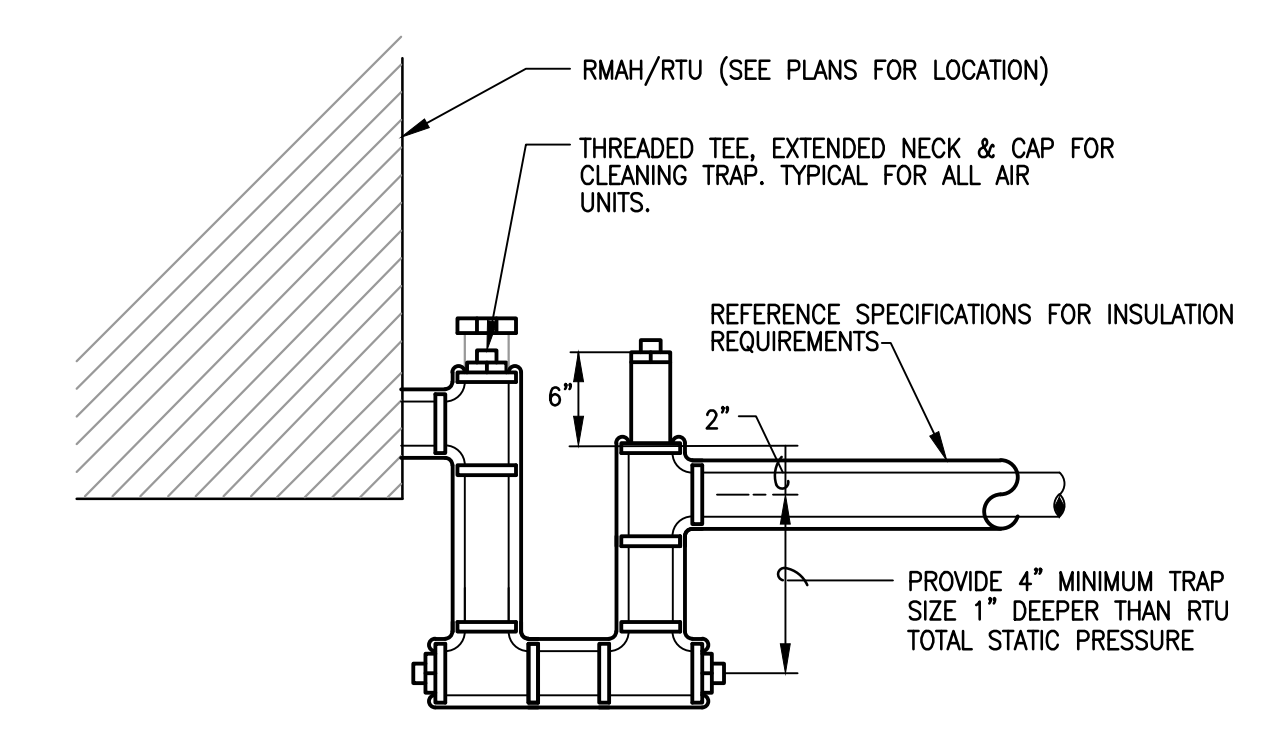
PERMIT / BID ISSUE	03/20/21
<b>SALASOBRIEN</b> <i>respect a difference  </i> Houston   Dallas/Ft. Worth   Baton Rouge 10930 W. Sam Houston Parkway N., Suite 900 Houston, Texas 77064 281.664.1900   Registration No. F-4111 SCBE Project No. 205-2021-00604	
<b>KROGER</b> <i>Signature</i>	
HVAC ROOF PLAN <b>KROGER SW-356</b> 1352 WEST 43RD STREET HOUSTON, TEXAS 77018	
SCALE AS INDICATED PROJECT: 201-0004 DATE: 03/20/21	<b>M1.1</b>

ROOFTOP AIR CONDITIONING UNIT SCHEDULE																		
MARK	ROOFTOP UNIT				COOLING		GAS HEATING		BASIS OF DESIGN				ROOF CURB PNET (AES INDUSTRIES)	TONNAGE	EER/EER	REMARKS		
	SUPPLY AIR (CFM)	OUTSIDE AIR (CFM)	EXT. SP (IN. W.C.)	FAN MOTOR	AIR TEMPERATURE (°F) ENTERING DRY BULB	AIR TEMPERATURE (°F) ENTERING WET BULB	MIN. TOTAL CAPACITY (BTUH)	MIN. SENSIBLE CAPACITY (BTUH)	MIN. TOTAL CAPACITY (BTUH) / STAGES	CURRENT CHARAC.	MCA	MOCF					WEIGHT (LBS)	TRANE
RTU-1	22500	4000	3.10	(2) 25 HP	80	67	652,660	502,160	500,000 / 2	480/3/60	139.63	175	10,671	SFHLF604L	CURB ADAPTER	60	10.4 / 16.5	1,2,3,4,5,6,7,8
RTU-2	22500	4000	3.10	(2) 25 HP	80	67	652,660	502,160	500,000 / 2	480/3/60	139.63	175	10,671	SFHLF604L	CURB ADAPTER	60	10.4 / 16.5	1,2,3,4,5,6,7,8
RTU-3	1200	150	0.80	0.75 HP	80	67	35,310	28,290	100,000 / 1	480/3/60	12	20	1291	YHCO92F4RMA	AC-TR05/TR33	3	12.7 / 15.0	1,2,3,4,5,6,7,8
RTU-5	5625	1000	1.00	2.9 HP	80	67	174,460	148,400	280,000 / 2	480/3/60	33	45	2663	YHD180G4RL	AC-TR05-TR33	15	12.1 / 14.00	1,2,3,4,5,6,7,8

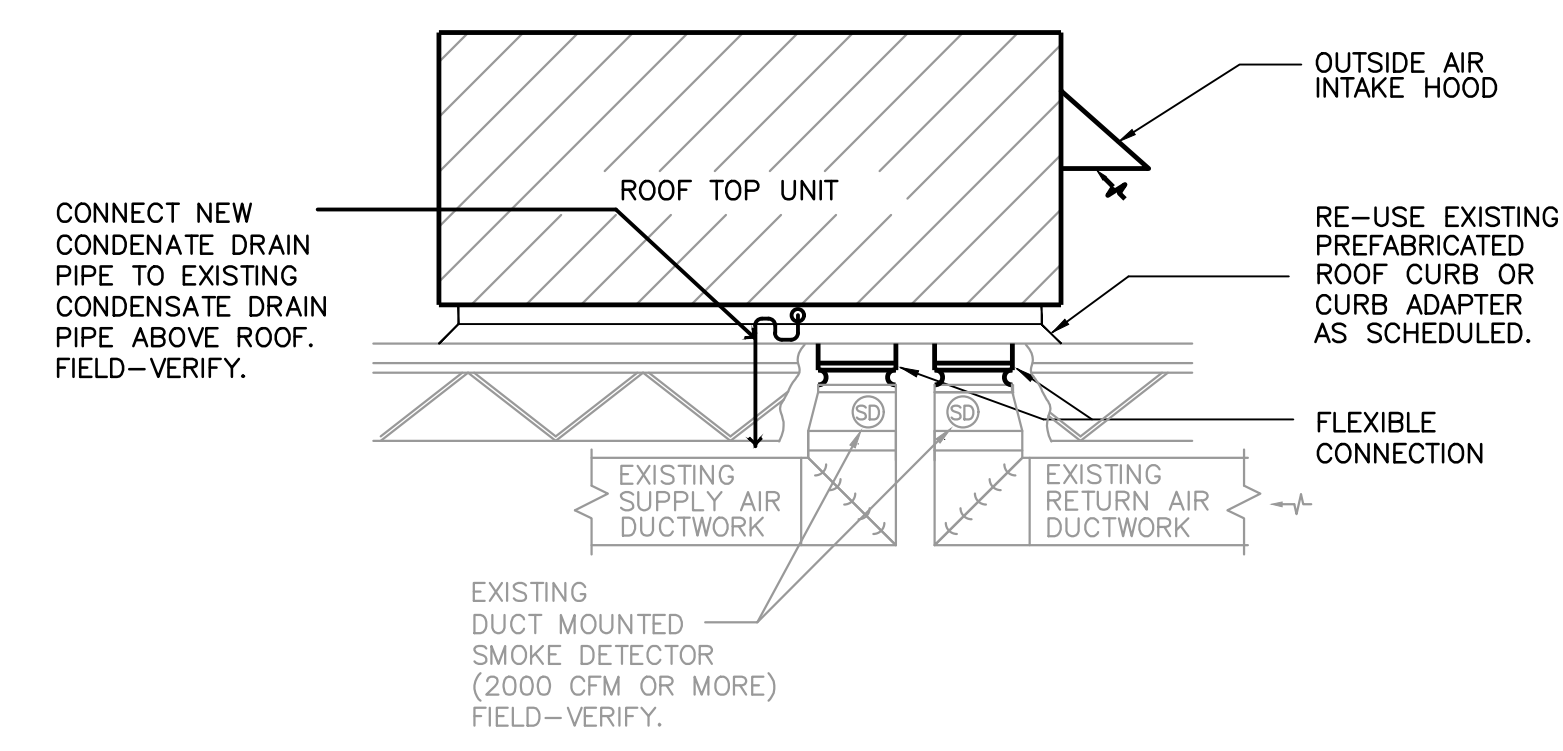
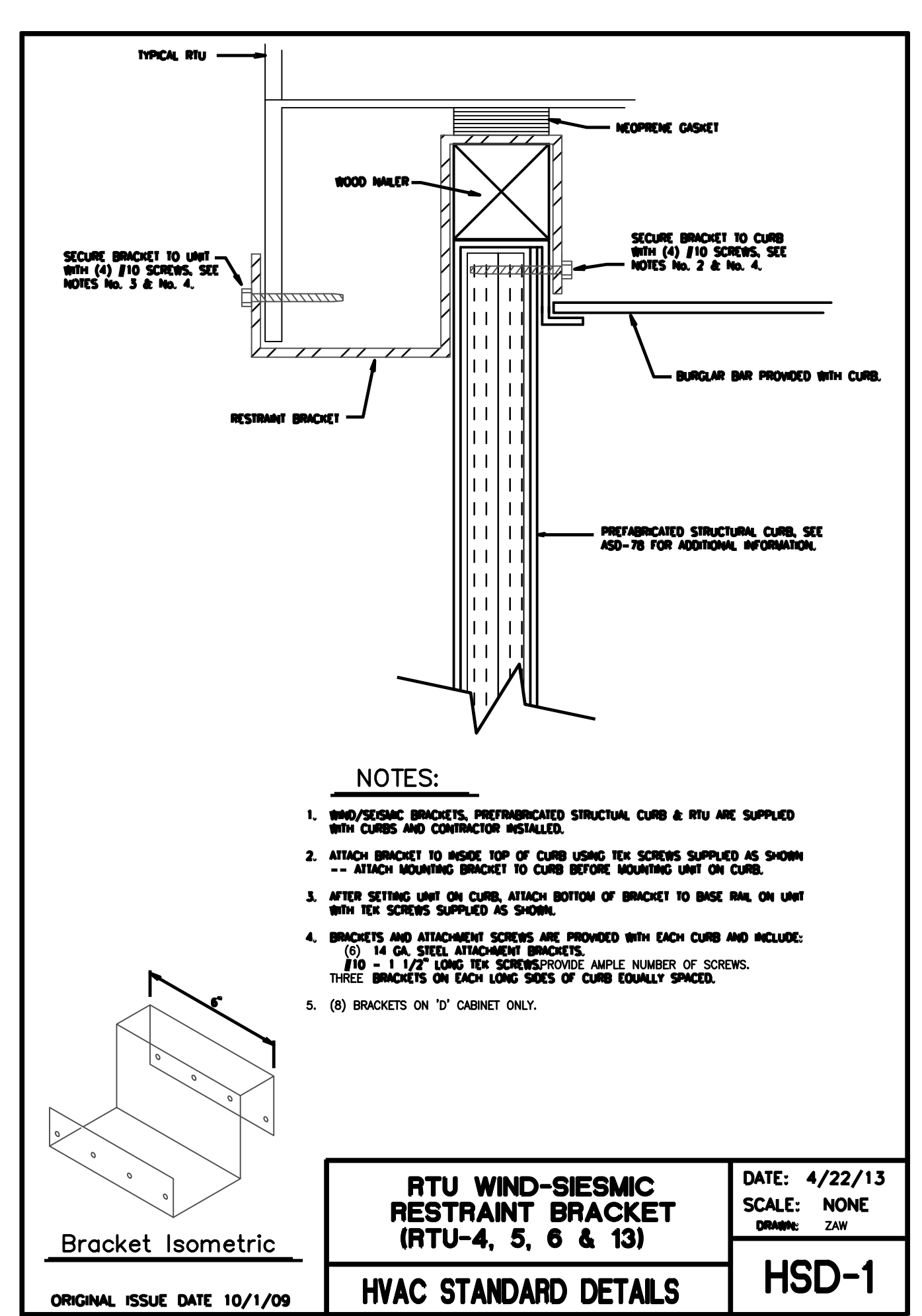
REMARKS

- KROGER MAINTAINS A NATIONAL ACCOUNT WITH TRANE. ROOFTOP UNITS WILL BE PROVIDED BY KROGER. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING, RECEIPT AND COMPLETE INSTALLATION OF ROOFTOP UNITS.
- AES INDUSTRIES ROOFTOP UNIT CURBS TO BE PROVIDED BY HVAC CONTRACTOR.
- UNIT SHALL HAVE SENSORS / THERMOSTATS AS SPECIFIED FOR THE KROGER PROVIDED ENERGY MANAGEMENT SYSTEM.
- SEE SPECIFICATIONS FOR OPTIONS, CONTROLS, AND ACCESSORIES REQUIRED (INCLUDING SMOKE DETECTORS).
- PROVIDE WITH ECONOMIZER AND BACKDRAFT DAMPER.
- PROVIDE WITH CONDENSATE DRAIN PAN OVERFLOW SWITCH.
- PROVIDE WITH FACTORY INSTALLED DISCONNECT SWITCH.
- PROVIDE WITH FACTORY INSTALLED GFCI WP RECEPTACLE, HARD WIRED BY THE CONTRACTOR.

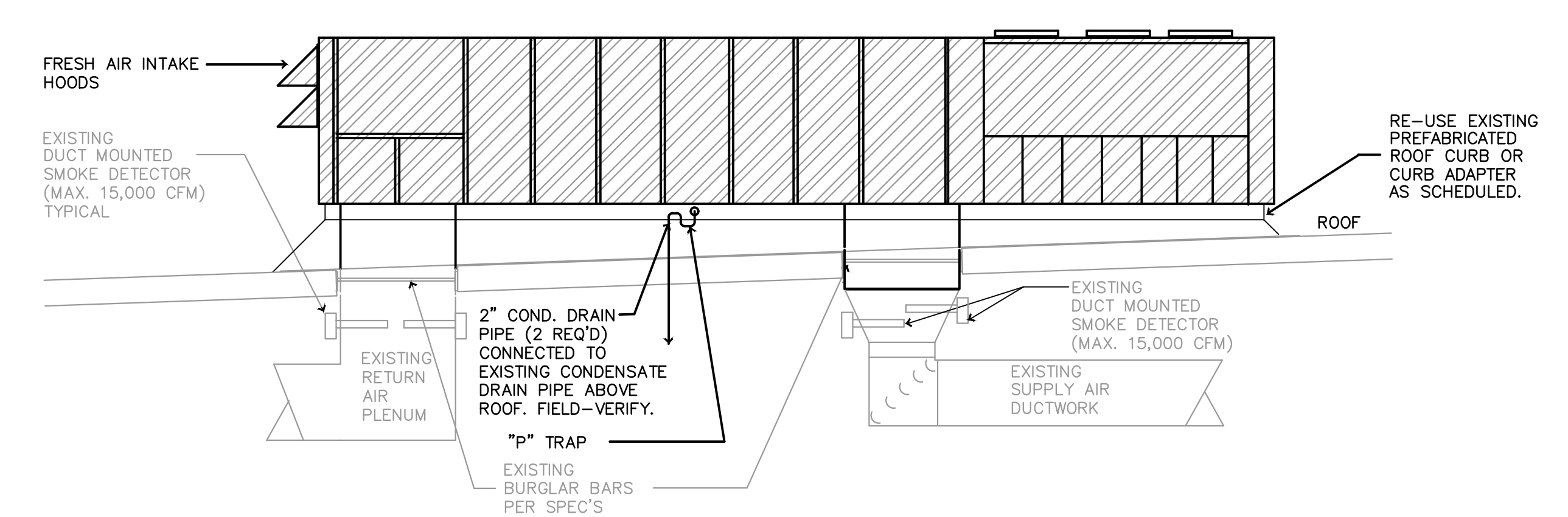
- GENERAL HVAC NOTES**
- PROVIDE BALANCING DAMPERS AT POINTS ON SUPPLY, RETURN, AND EXHAUST SYSTEMS WHERE BRANCHES LEAD FROM LARGE DUCTS AS REQUIRED FOR AIR BALANCING. INSTALL AT A MINIMUM OF TWO DUCT WIDTHS FROM BRANCH TAKEOFF.
  - PROVIDE A MINIMUM R-5 DUCT INSULATION ON ALL NEW SUPPLY DUCTWORK LOCATED WITHIN THE BUILDING ENVELOPE. PROVIDE A MINIMUM R-8 DUCT INSULATION ON ALL NEW SUPPLY DUCTWORK LOCATED OUTSIDE THE BUILDING ENVELOPE.
  - DUCTWORK AND PLENUMS SHALL BE SEALED IN ACCORDANCE WITH THE LOCAL MECHANICAL CODE AND SMACNA METHOD A, SECTION 6.4.4.2.1.
  - ALL DUCTWORK SHALL BE GALVANIZED SHEET METAL AND SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH SMACNA LOW PRESSURE DUCT CONSTRUCTION STANDARDS. DUCT HANGERS AND SUPPORTS SHALL BE IN ACCORDANCE WITH SMACNA RECOMMENDATIONS.



**3 CONDENSATE DRAIN PIPING AT RTU AND AHU**  
SCALE: NONE



**2 ROOFTOP A/C UNIT DETAIL (RTU-3 & 5)**  
SCALE: NO SCALE



**1 ROOFTOP A/C UNIT DETAIL (RTU-1 & 2)**  
SCALE: NO SCALE

03/20/21

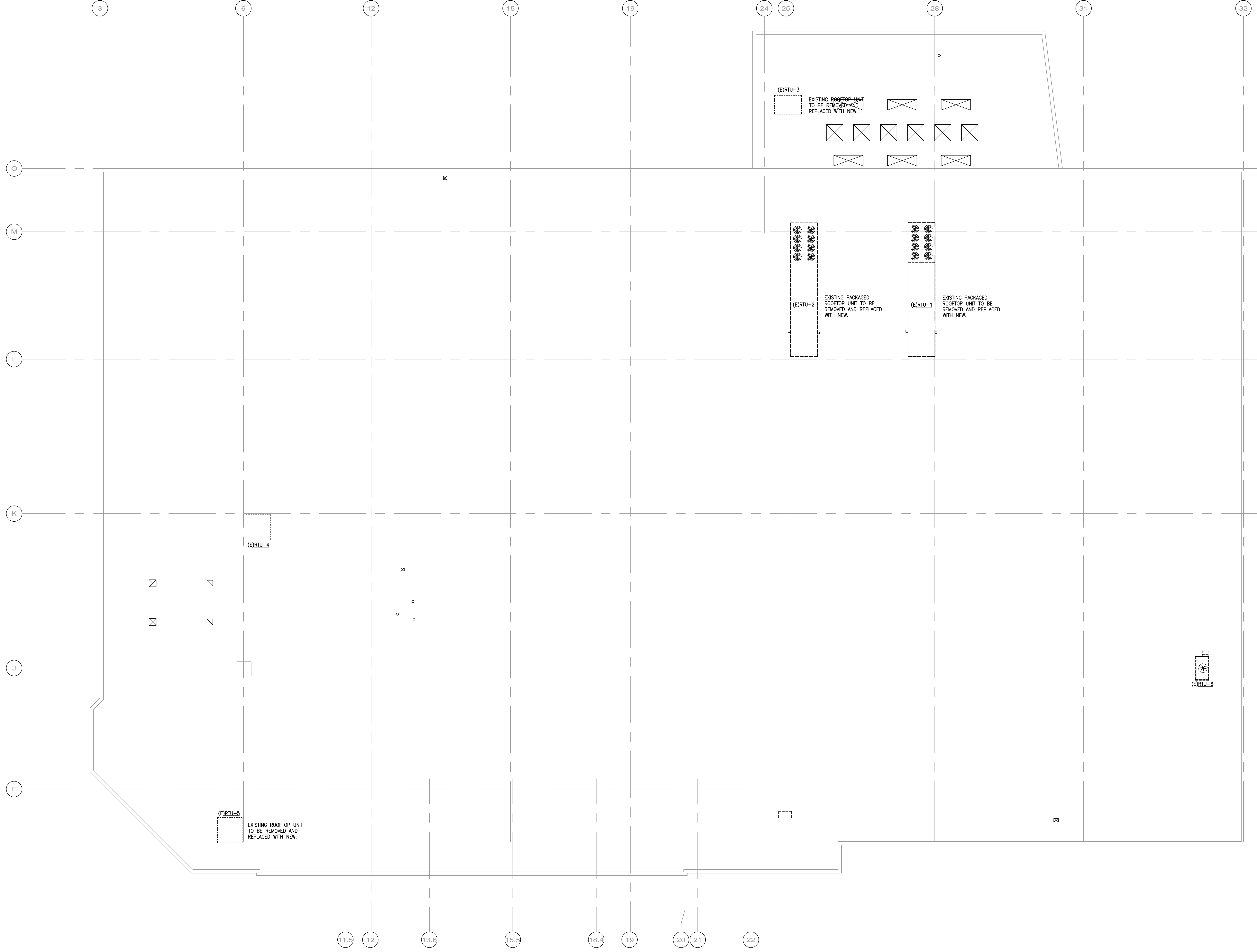
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**SALASOBRIEN**  
Project a difference |  
Houston | Dallas/Ft. Worth | Baton Rouge  
10930 W. Sam Houston Parkway N., Suite 900  
Houston, Texas 77064  
281.664.1900 | Registration No. F-4111  
SCBE Project No. 205-2021-00804

**KROGER**  
Schedules and Details

**KROGER SW-356**  
1352 WEST 43RD STREET  
HOUSTON, TEXAS 77018

SCALE AS INDICATED  
PROJECT: 2021-00804  
DATE: 03/20/21  
SHEET NO. **M2.1**



1 HVAC ROOF DEMOLITION PLAN  
SCALE: 3/32" = 1'-0"

SCALE AS INDICATED	<b>KROGER</b> <i>Signature</i>	<b>HVAC ROOF DEMOLITION PLAN</b> <b>KROGER SW-356</b> 1352 WEST 43RD STREET HOUSTON, TEXAS 77018
PROJECT: 2021-0084		
DATE: 03/25/21	<b>SALASO'BRIEN</b> <i>Signature</i> Houston   Dallas/Ft. Worth   Baton Rouge 10930 W. Sam Houston Parkway N., Suite 900 Houston, Texas 77064 281.664.1900   Registration No. F-4111 SCBE Project No. 203-2021-0084	PERMIT / BID ISSUE 03/25/21
SHEET NO.		
<b>MD 1.1</b>		