



- ### GENERAL NOTES
- A. DEMOLITIONS TO OCCUR IN A TIMELY MANNER AS DIRECTED BY THE KROGER PROJECT MANAGER AND THE GENERAL CONTRACTOR.
  - B. PREVENT DAMAGE TO EXISTING EQUIPMENT, DUCTS, PIPING, CONTROLS, AND VENTS THAT ARE NOT SCHEDULED TO BE REMOVED.
  - C. VERIFY EXTENTS OF DEMOLITION OF ANY HVAC SYSTEMS PRIOR TO REMOVAL WITH THE GENERAL CONTRACTOR AND THE OWNER'S REPRESENTATIVE.
  - D. THE STORE SHALL REMAIN OPEN DURING CONSTRUCTION AND SHALL BE MAINTAINED IN A BEST POSSIBLE CONDITION FOR SHOPPING. ALL WORK IN SALES AREA TO TAKE PLACE OUTSIDE OF NORMAL STORE OPERATING HOURS. COORDINATE WORK SCHEDULE WITH KROGER PROJECT MANAGER.
  - E. REFER TO HEATING, VENTILATION & AIR CONDITIONING SPECIFICATIONS AND GENERAL CONDITIONS FOR ADDITIONAL REQUIREMENTS.
  - F. REFER TO MS SERIES DRAWINGS FOR HVAC LEGEND AND DETAILS. REFER TO MS SERIES DRAWING FOR EQUIPMENT SCHEDULES.
  - G. ALL MATERIAL AND WORKMANSHIP SHALL COMPLY WITH THE BUILDING CODE, MECHANICAL CODE, AND AUTHORITY HAVING JURISDICTION. MATERIALS SHALL BE UL LISTED, NEW, DEFECT FREE, AND INSTALLED PER MANUFACTURER SPECIFICATIONS.
  - H. IT IS INTENDED THAT WORK COVERED BY THESE SPECIFICATIONS AND DRAWING INCLUDE EVERYTHING REQUISITE AND NECESSARY TO MAKE THE VARIOUS SYSTEMS COMPLETE AND OPERATIVE. IRRESPECTIVE OF WHETHER OR NOT EVERY ITEM IS SPECIFICALLY IDENTIFIED. ANY OMISSION OF DIRECT REFERENCE HEREIN TO ANY ESSENTIAL ITEM SHALL NOT EXCUSE THE CONTRACTOR FROM COMPLYING WITH THE ABOVE INTENT. THE CONTRACTOR SHALL CAREFULLY EXAMINE ALL THE DRAWINGS.
  - I. ALL NEW VENTS, EXHAUST FANS AND HOODS SHOWN ON THESE PLANS AND SCHEDULES ARE INCLUDED IN KROGER'S DIRECT BUY PROGRAM AND SHALL BE PROVIDED BY KROGER AND INSTALLED BY THE HVAC CONTRACTOR UNLESS NOTED OTHERWISE.
  - J. COORDINATE THE INSTALLATION WITH THE OWNER'S MAINTENANCE STAFF, AND THE WORK OF OTHER CONTRACTORS. THE CONTRACTOR SHALL INCUR ALL COSTS FOR THE RELOCATION OF EQUIPMENT IN CONFLICT WITH WORK BY OTHER DISCIPLINES.
  - K. PROVIDE PROTECTION TO THE FACILITY FROM DAMAGE OF ANY KIND DURING ALL PHASES OF THE PROJECT.
  - L. COORDINATE WORK WITH ALL DISCIPLINES INCLUDING BUT NOT LIMITED TO OWNER'S FIXTURES, DECOR, ELECTRICAL, PLUMBING, AND FIRE PROTECTION.
  - M. HVAC CONTRACTOR SHALL CAREFULLY COORDINATE DUCTWORK LOCATIONS WITH ALL OTHER TRADES.
  - N. ALL DUCTWORK CONNECTIONS TO GRILLES, SHALL MATCH GRILLE SIZE.
  - O. VERIFY EXISTING CONDITIONS RELATIVE TO EXTENT REQUIRED FOR NEW WORK. ALL CONDITIONS SHALL BE FIELD VERIFIED BEFORE ORDERING EQUIPMENT OR FABRICATING MATERIAL.
  - P. UNLESS OTHERWISE SPECIFIED, ALL NEW DUCTWORK IS TO BE INSTALLED AS CLOSE TO THE STRUCTURE ABOVE AS POSSIBLE.
  - Q. IN FINISHED AREAS, DUCTWORK AND PIPING SHALL BE LOCATED ABOVE SUSPENDED CEILING AND WITHIN WALLS.
  - R. THE HVAC CONTRACTOR SHALL COORDINATE ALL REQUIRED ROOF OPENINGS FOR DUCTWORK AND PIPING WITH THE GENERAL CONTRACTOR AND COORDINATE ALL REQUIRED PATCHING FOR NEW ROOF PENETRATIONS WITH THE PROJECT ROOFING CONTRACTOR.
  - S. THE HVAC CONTRACTOR SHALL PROVIDE ALL ADDITIONAL STEEL FRAMING AS REQUIRED TO INSTALL PIPE HANGERS, DUCTWORK, AND EQUIPMENT SUPPORTS.
  - T. THE HVAC CONTRACTOR SHALL PROVIDE ALL CUTTING AND PATCHING THAT IS REQUIRED FOR DUCT AND PIPING PENETRATIONS THROUGH ROOF, WALLS, AND FLOOR SLABS.
  - U. PROVIDE BALANCING DAMPERS AT ALL BRANCH DUCTS AND MAINS TO INSURE THAT THE AIR SUPPLIED, RETURNED OR EXHAUSTED BY GRILLES, REGISTERS OR DIFFUSERS CAN BE SET BY THE BALANCING CONTRACTOR TO THE DESIRED FINAL CFM. REFER TO DETAILS FOR DESIGN INTENT. INSTALL DAMPERS AT A MINIMUM OF TWO DUCT WIDTHS FROM BRANCH TAKEOFF.
  - V. PROVIDE TURNING VANES IN ALL NON-GREASE RECTANGULAR 90 DEGREE MITERED ELBOWS. ALL SUPPLY DUCTS INSTALLED ABOVE CEILING ARE TO BE INSULATED AS REQUIRED BY THE SPECIFICATIONS. COORDINATE THE FINAL LOCATION OF ALL CEILING DIFFUSERS AND GRILLES INSTALLED IN CEILING WITH THE CEILING GRID, LIGHTS, AND SPRINKLER HEADS. UNLESS OTHERWISE NOTED, ALL DUCTWORK AND PIPING SHOWN DARK IS NEW.
  - W. TRANSITION THE EXHAUST DUCTS AT ROOF FANS TO MATCH THE FAN INTAKE SIZE.
  - X. CONTRACTOR SHALL REPAIR ALL WALLS, FLOORS, CEILING, ETC TO MATCH EXISTING THAT ARE DAMAGED AS PART OF THIS PROJECT.
  - Y. THE SPRINKLER SYSTEM SHALL BE MODIFIED TO ACCOMMODATE THE RENOVATED BUILDING. PROVIDE SYSTEM PER NFPA 13 OCCUPANCY REQUIREMENTS AS REQUIRED BY BUILDING CODE. HYDRULICALLY DESIGNED IN ACCORDANCE WITH NFPA 13 AS REFERENCED BY BUILDING CODE AND THE AUTHORITY HAVING JURISDICTION. NEW SPRINKLER HEADS SHALL MATCH EXISTING DESIGN OF THE SYSTEM. PERMIT DRAWINGS, AND ALL CALCULATIONS TO BE PERFORMED BY A LICENSED FIRE PROTECTION CONTRACTOR AS A SUB-CONTRACTOR TO THE MECHANICAL CONTRACTOR.
  - Z. RELOCATE LIGHTS, AND ALL OTHER ITEMS, AS REQUIRED FOR THE INSTALLATION OF THE NEW MECHANICAL SYSTEMS.

- ### CODED NOTES
1. MECHANICAL CONTRACTOR TO RECEIVE AND INSTALL OWNER PROVIDED RTU AND CURB. UNIT TO BE LOCATED ON COLUMN AS INDICATED. REFER ASD-78 AND HSD-90 SHEET #1.
  2. ROUTE NEW DUCTWORK FROM UNIT AND CONNECT TO EXISTING DUCT. NEW DUCT TO BE INTERNALLY LINED. REFER TO DETAIL 4 SHEET 5.1. COORDINATE FINAL SIZE AND ROUTING TO EXISTING DUCTWORK IN FIELD PRIOR TO FABRICATION.
  3. CONTRACTOR SHALL BALANCE SUPPLY AND RETURN TO CFM INDICATED ON PLANS.
  4. PROVIDE SMOKE DETECTOR PER CODE. REFER TO OHIO MECHANICAL CODE SECTION 606.2.1. CONNECT TO EXISTING FIRE ALARM CONTROL SYSTEM AS REQUIRED.
  5. CONNECT NEW UNIT TO EXISTING THERMOSTAT AND CPC CONTROL PANEL.
  6. ROUTE AND CONNECT NEW 14" ROUND DUCT TO EXISTING BACK ROOM DIFFUSER.
  7. PROVIDE FULL SIZE RETURN AIR DUCT. PROVIDE NEW RETURN AIR DUCT TO NEW CEILING GRILLES. COORDINATE LOCATION OF CEILING GRILLES WITH LIGHTS IN AREA. ROUTE RETURN TO EXISTING RETURN AIR PLENUM IN SPACE.
  8. GAS PIPING INSIDE THE STORE IS SHOWN DASHED.
  9. EXISTING GAS PIPING UP AND DOWN.
  10. CONNECT NEW 2" GAS PIPING TO EXISTING GAS PIPING INSIDE THE STORE. EXTEND TO NEW ROOFTOP UNIT AS REQUIRED.
  11. NEW 2" GAS PIPING UP THROUGH ROOF. COORDINATE EXACT SIDE OF UNIT THE GAS CONNECTION IS LOCATED WITH THE ORIENTATION OF THE UNIT. PRIOR TO MAKING THE ROOF PENETRATION.
  12. CONNECT NEW GAS PIPING TO NEW ROOFTOP UNIT AS REQUIRED PER MANUFACTURER'S RECOMMENDATIONS. REFER TO DETAIL PDSS ON SHEET #5.1. NEW ROOFTOP UNIT HAS A GAS INPUT OF 800,000 Btu/h.
  13. NEW GFCI CONVENIENCE RECEPTACLE WITH WEATHER PROOF ABUSE COVER. REUSE EXISTING CIRCUIT FROM CONVENIENCE OUTLET OF DEMOLISHED CONDENSING UNIT. COORDINATE FINAL LOCATION WITH MECHANICAL AND GENERAL CONTRACTORS PRIOR TO INSTALLATION.
  14. NEW 400A NEMA 3R NON-FUSED DISCONNECT FOR NEW ROOFTOP UNIT, RTU-4. COORDINATE FINAL LOCATION WITH MECHANICAL AND GENERAL CONTRACTORS PRIOR TO INSTALLATION. PROVIDE FEEDERS AS SPECIFIED ON THE SINGLE LINE DIAGRAM.

A405 HVAC REPLACEMENT

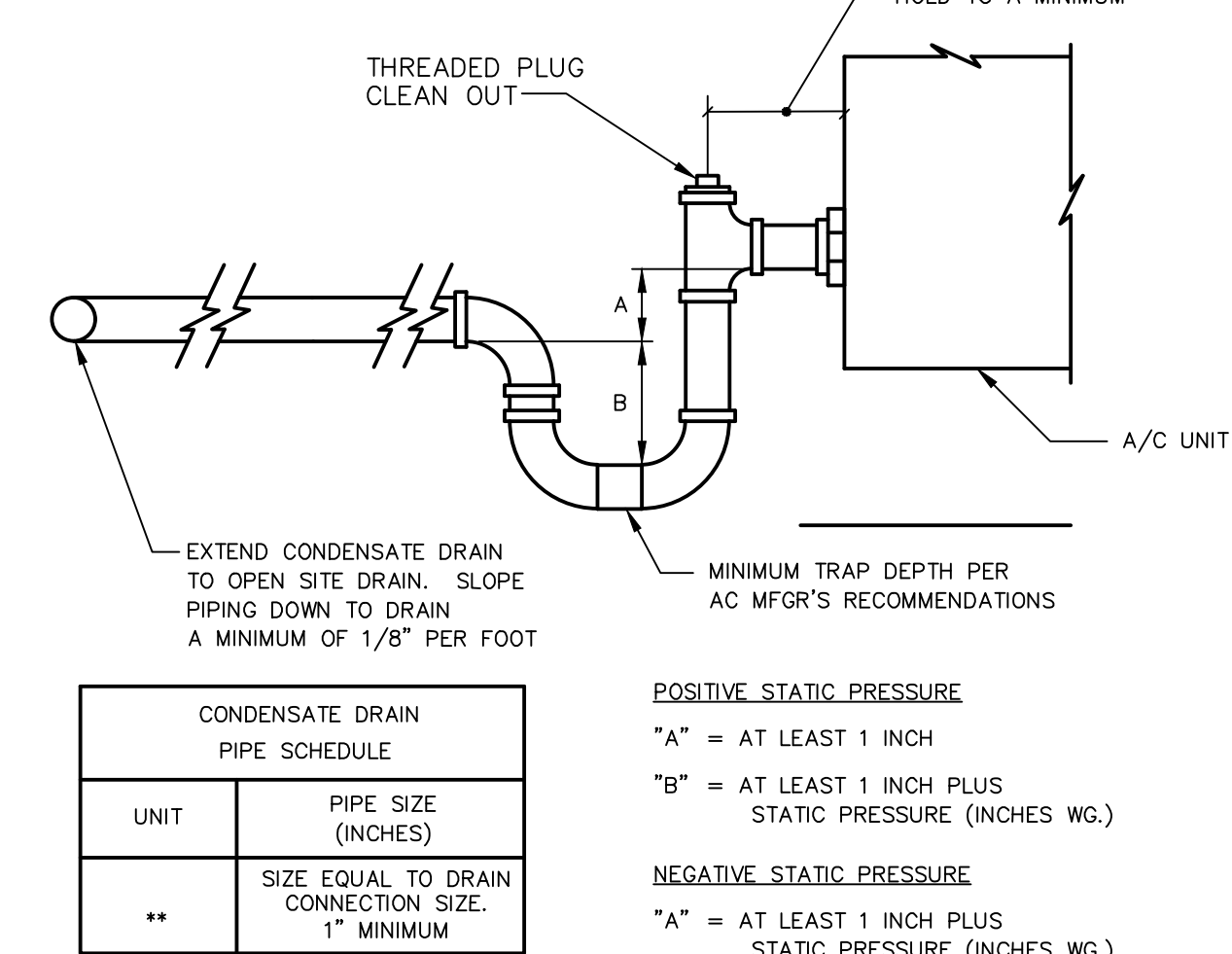
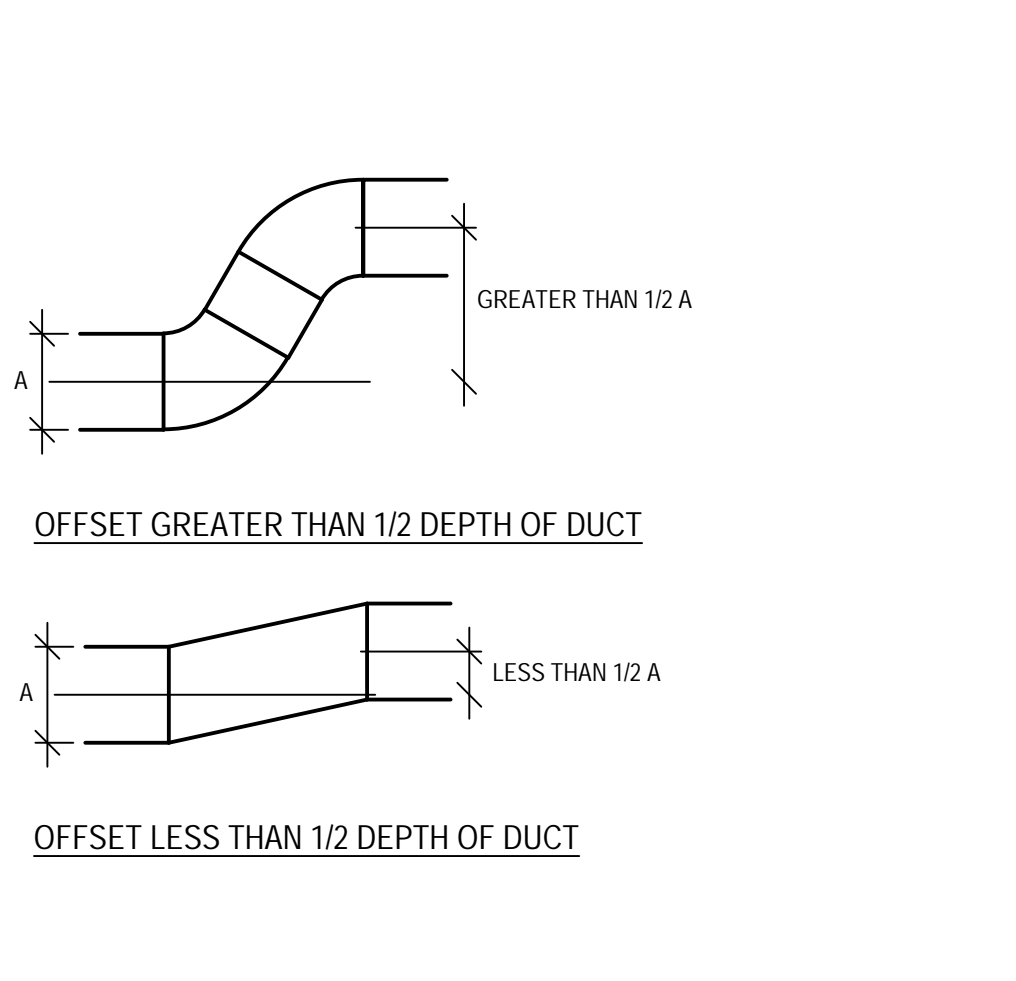
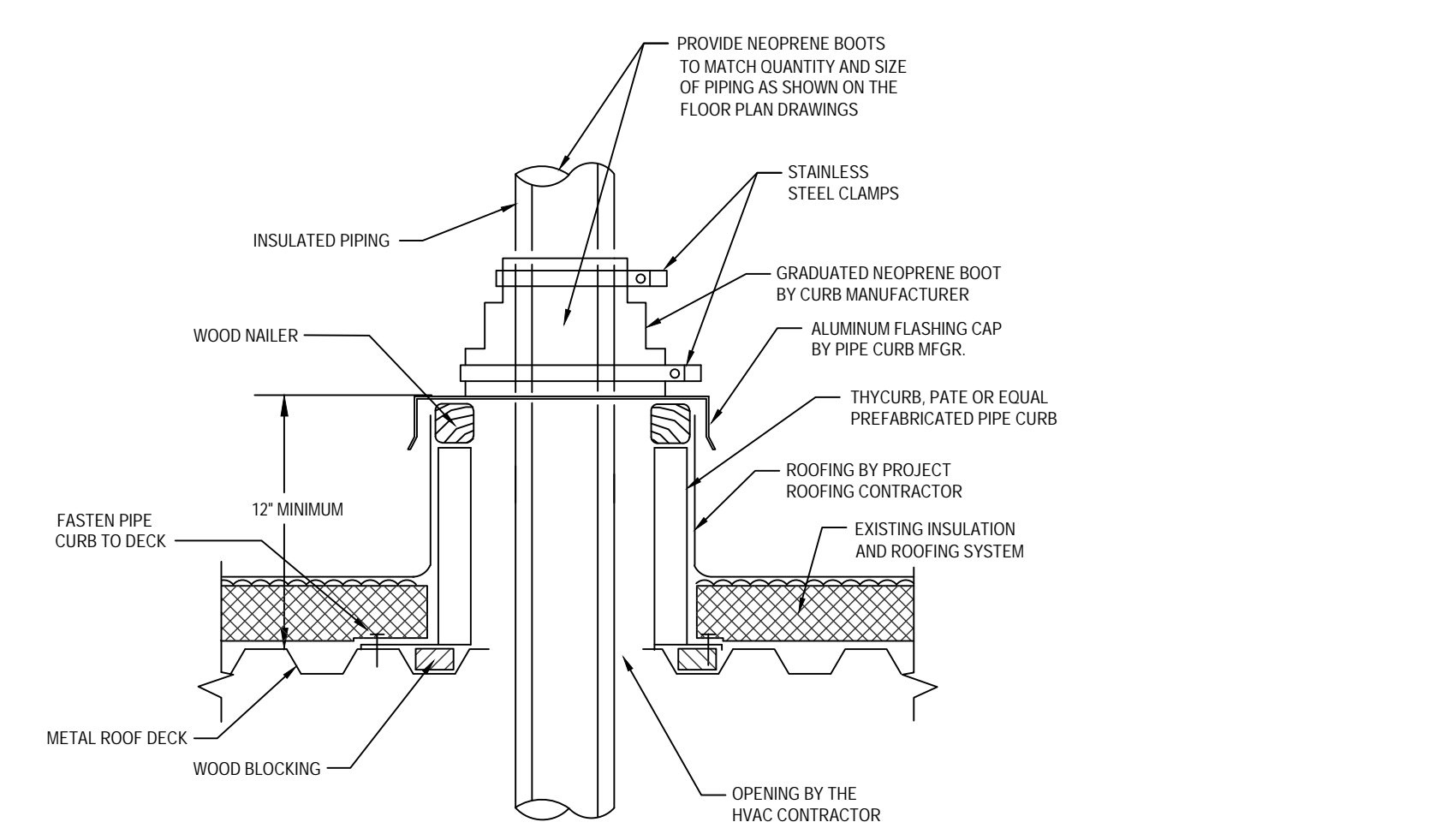
8241 VINE STREET, CINCINNATI, OH 45216

KROGER CINCINNATI DIVISION

ISSUED	DATE
RED PERMIT	4/14/2021

SHEET TITLE	HVAC FLOOR PLAN
SCALE	AS NOTED
NOTED	6/1/2020
DRAWN BY	DATE
	4/14/2021
SHEET #	M1.1

THIS DRAWING IS PART OF A SET

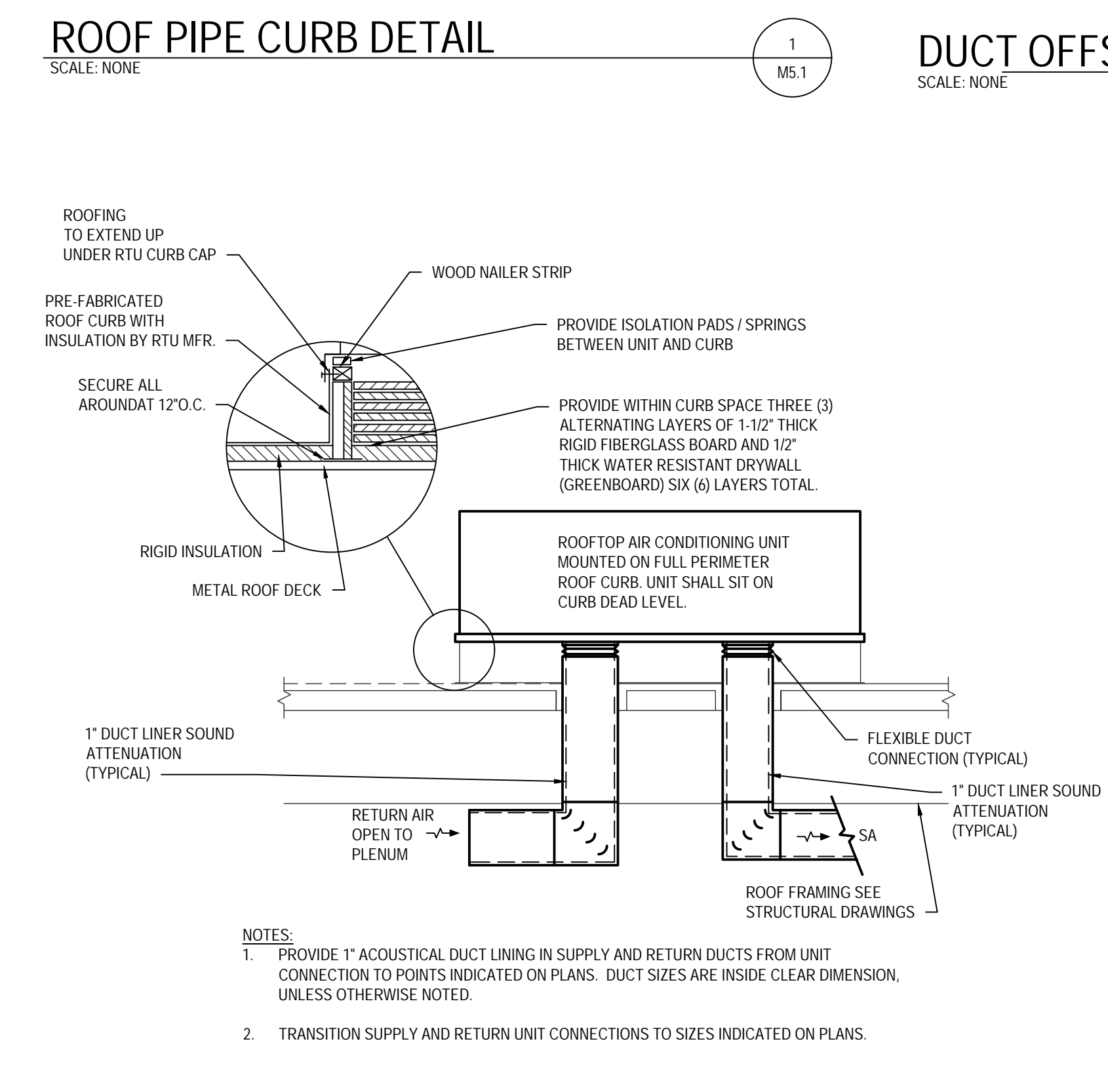


**HVAC ABBREVIATIONS LEGEND:**

AAD	AUTOMATIC AIR DAMPER	HR	HOUR
AC	AIR CONDITIONING UNIT	HWAC	HEATING, VENTILATING AND A/C
AFF	ABOVE FINISHED FLOOR	IN	INCH
AMP	AMPIRE	KEF	KITCHEN EXHAUST HOOD
BAS	BUILDING AUTOMATION SYSTEM	KH	KITCHEN HOOD
BHP	BRAKE HORSEPOWER	KW	KILOWATT
BDD	BOTTOM OF DUCT	LAT	LEAVING AIR TEMPERATURE
BOS	BOTTOM OF STEEL	LBS	POUNDS
BTUH	BTUS PER HOUR	LD	LINEAR DIFFUSER
CD	CEILING DIFFUSER	LLS	LOAD
CFM	CUBIC FEET PER MINUTE	MCA	MINIMUM CIRCUIT AMPS
CU	CONDENSING UNIT	MEM	BTUS PER HOUR, THOUSAND
DIA	DIAMETER	MOPC	MAXIMUM OVER CURRENT PROTECTION
DB	DRY BULB TEMPERATURE	NO	NUMBER
DIA	DIAMETER	OA	OUTSIDE AIR
DN	DOWN	DAH	OUTSIDE AIR HOOD
DR	DRYAN	DAL	OUTSIDE AIR LOUVER
DV	DRYER VENT	PH	PHASE
EA	EXHAUST AIR	RG	RETURN AIR GRILLE
EAL	EXHAUST AIR LOUVER	RPM	REVOLUTIONS PER MINUTE
EAT	ENTERING AIR TEMPERATURE	RR	RETURN REGISTER
EBH	ELECTRIC BASEBOARD HEATER	RRTU	PACKAGED ROOFTOP UNIT
EC	ELECTRICAL CONTRACTOR	SE	SQUARE FOOT (FEET)
EF	EXHAUST FAN	SG	SUPPLY AIR GRILLE
EG	EXHAUST GRILLE	SL	REFRIGERANT SUCTON LINE
ER	EXHAUST REGISTER	SR	SUPPLY REGISTER
ESP	EXTERNAL STATIC PRESSURE	TG	TRANSFER AIR GRILLE
EUH	ELECTRIC UNIT HEATER	TIP	TOTAL STATIC PRESSURE
F	DEGREE FAHRENHEIT	TYP	TYPICAL
FLA	FULL LOAD AMPS	WC	WET BULB TEMPERATURE
FPM	FEET PER MINUTE	WB	WATER COLUMN
HP	HORSEPOWER		

**HVAC SYMBOLS LEGEND:**

⊖	THERMOSTAT
⊕	BAS TEMPERATURE SENSOR
⊖	BAS HUMIDITY SENSOR
⊕	DUCT MOUNTED SMOKE DETECTOR
RMS	REFRIGERANT MONITORING SYSTEM
⊕	FIRE DAMPER
⊕	ANGLED DUCT TAP
⊕	MANUAL DAMPER
⊕	SQUARE ELBOW WITH TURNING VANES
⊕	DUCT RISE IN DIRECTION OF AIR FLOW
⊕	DUCT DROP IN DIRECTION OF AIR FLOW
⊕	RECTANGULAR TO ROUND DUCT TRANSITION
⊕	SUPPLY AIR (RECTANGULAR DUCT)
⊕	S-SUPPLY, R-RETURN, E-EXHAUST, OA-OUTSIDE AIR
⊕	SUPPLY AIR (ROUND DUCT)
⊕	R-RETURN, E-EXHAUST, OA-OUTSIDE AIR
⊕	SUPPLY DIFFUSER
⊕	RETURN / EXHAUST GRILLE OR REGISTER
⊕	INTERNALLY LINED DUCTWORK (DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS)



**PACKAGED ROOFTOP AIR CONDITIONING UNIT SCHEDULE**

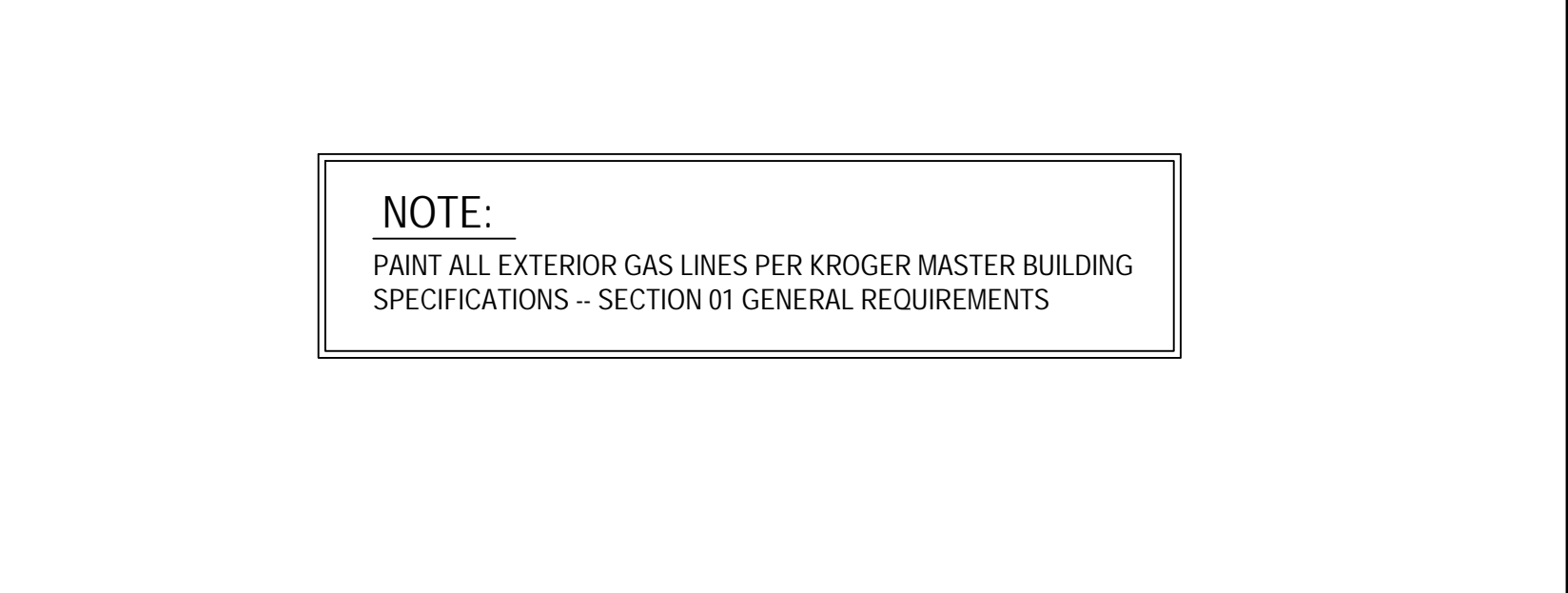
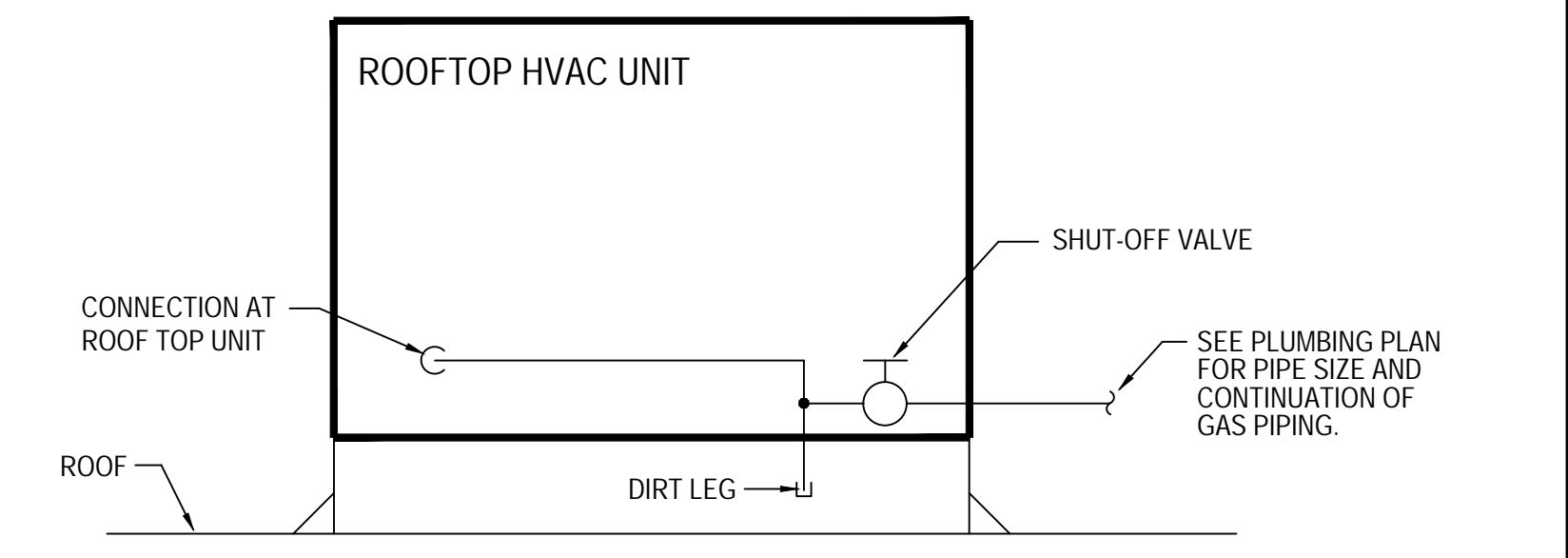
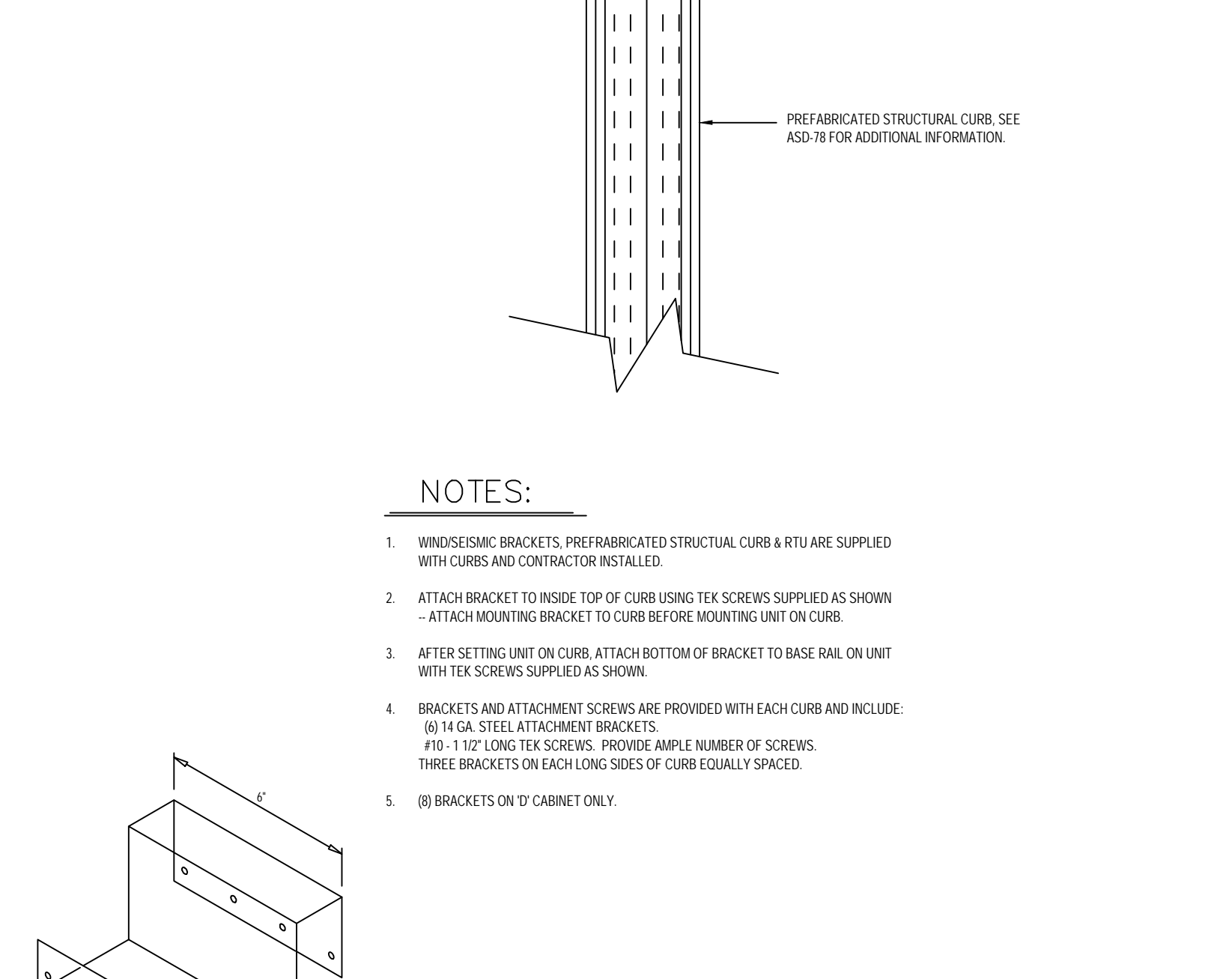
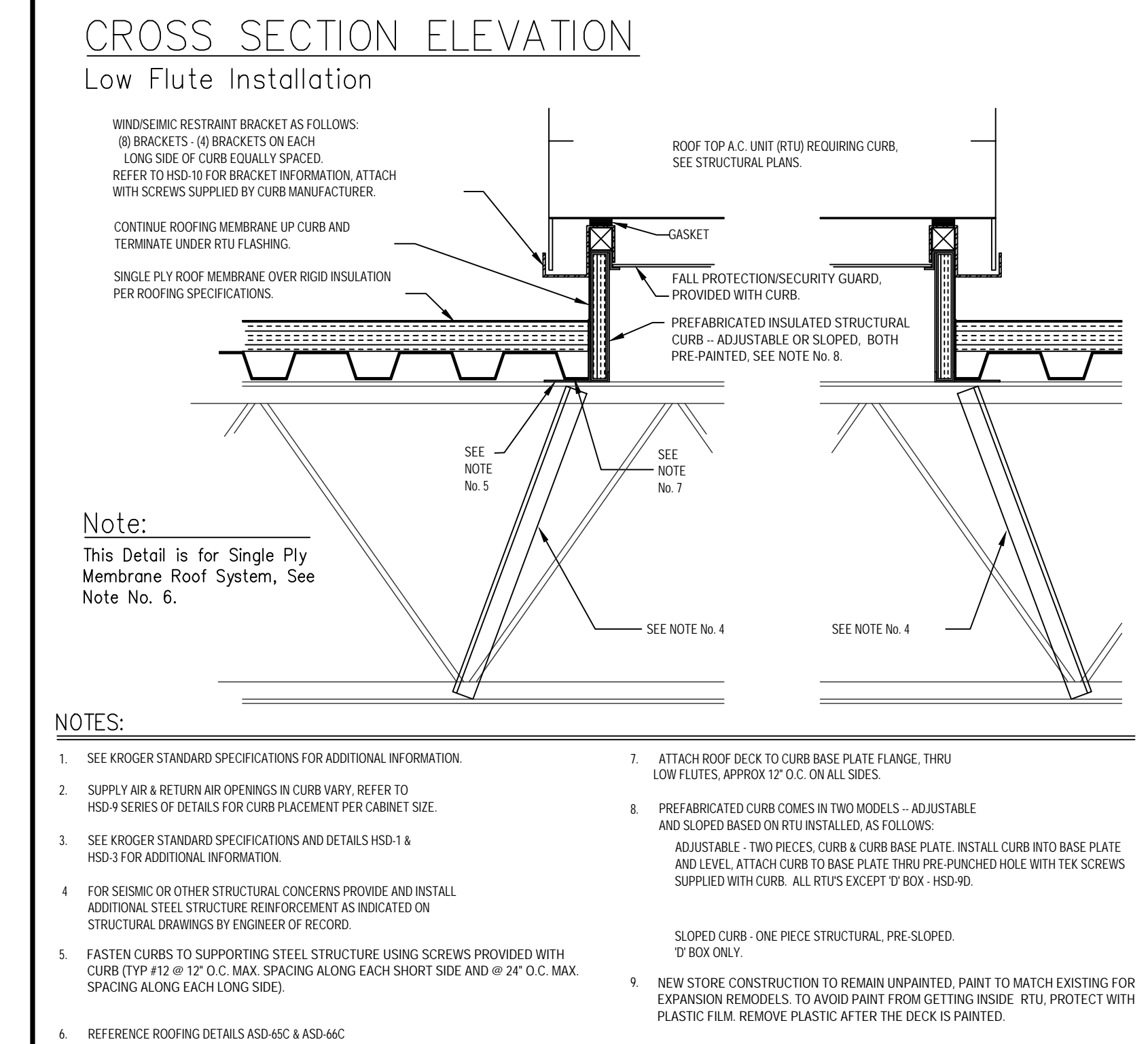
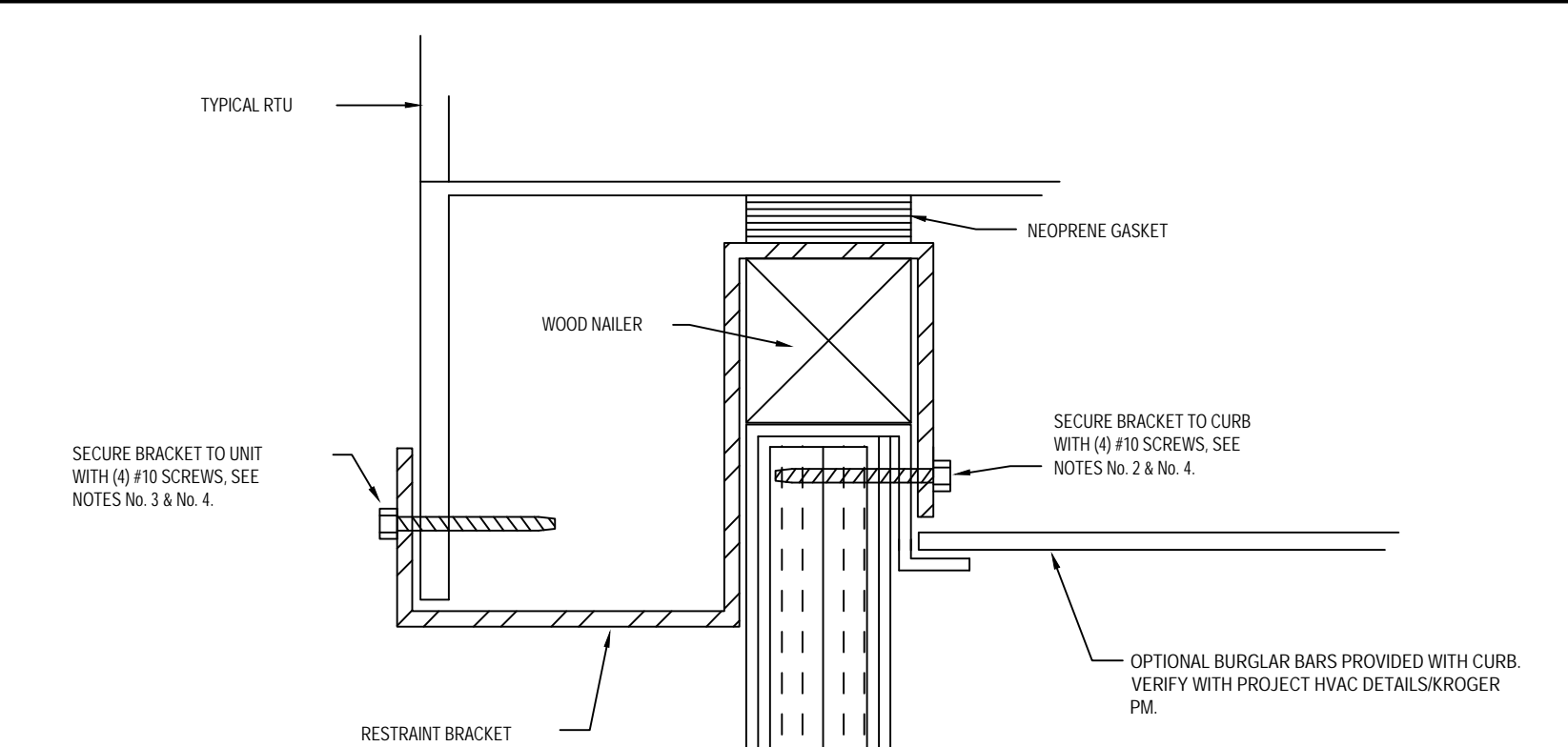
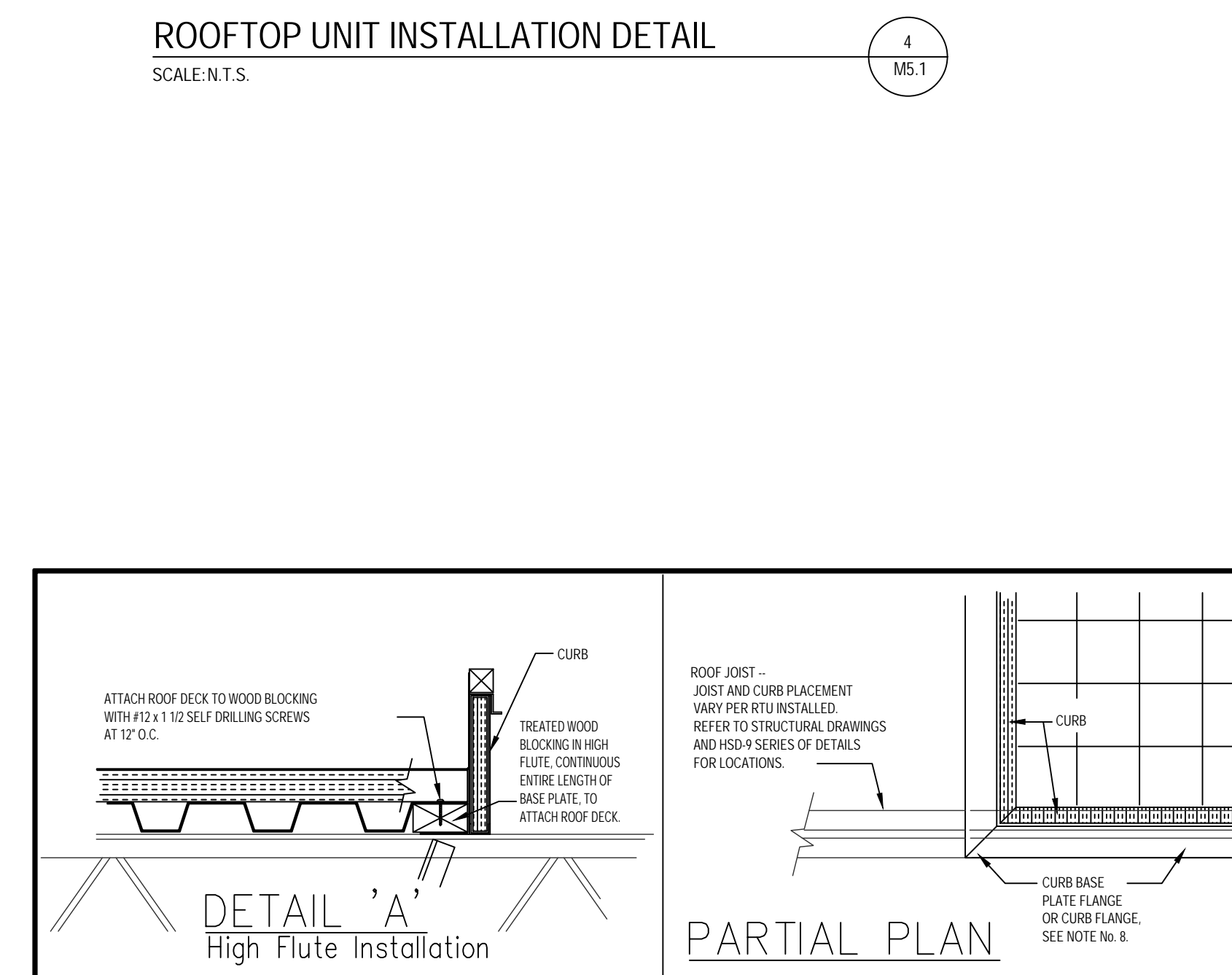
DESIGNATION	AREA SERVED	NOMINAL CAPACITY (TONS)	APPROX WEIGHT (LBS)	REFRIGERANT TYPE	COOLING CAPACITY (BTU/HR)	COOLING EFFICIENCY (ARI/EER)	SUPPLY FAN DATA (2 min)			OUTSIDE AIRFLOW (CFM)	NET COOLING CAPACITY			NATURAL GAS HEATING CAPACITY			ELECTRICAL DATA				BASIS OF DESIGN		AES CURB MODEL #	ACCESSORIES				
							SUPPLY	TOTAL ESP (CFM)	MOTOR HP (EA)		COIL LAT (BTU/HR)	COIL LAT (BTU/HR)	TOTAL BTU/HR	SENSIBLE BTU/HR	EAT (BTU/HR)	LAT (BTU/HR)	INPUT BTU/HR	OUTPUT BTU/HR	VOLTS/ PHHZ	FLA	MCA	MOPC			AC	MFGR	MODEL NO.	
RTU-4	SALES	80	10670	R-410a	10.4	10.4	24,000	3.3	30	4,800	73.0	61.0	54.4	52.0	493,000	573,000	58	84	180,000	480,000	200/60/3	332	400	CONFIRM	TRANE	INTELLIPAK SF	CONFIRM WITH AES	SEE NOTES BELOW

NOTES TO BE INCLUDED FOR ALL ROOFTOP UNITS:  
 1. ECONOMIZER WITH VARIABLE POSITION OUTSIDE AIR DAMPERS. PROVIDE CID CONTROLS FOR SALES AREA.  
 2. MODULATING GAS HEAT.  
 3. CONTRACTOR SUPPLIED ROOF CURB-ADJUSTABLE, MANUFACTURED BY AES.  
 4. NON-FUSED DISCONNECT TO BE PROVIDED BY THE MECHANICAL CONTRACTOR - CONFIRM LOCAL AHU REQUIREMENTS.  
 5. FACTORY CONTROLS PER KROGER STANDARDS.  
 6. RETURN AIR SMOKE DETECTORS.  
 7. VARIABLE SPEED FAN FOR BALANCING.  
 8. CONDENSATE OVERFLOW SWITCH.  
 9. TRANE CUSTOM TO ADD HOT GAS REHEAT FOR HUMIDITY CONTROL.  
 10. SCROLL COMPRESSORS.  
 11. TRANE IS THE BASIS OF DESIGN AND NO SUBSTITUTIONS WILL BE ALLOWED.

**OUTDOOR AIR VENTILATION SCHEDULE: AHU REPLACEMENT**

ROOM NAME	GROSS FL AREA (SQ. FT.)	NET FL AREA (SQ. FT.)	MAX. NO. OF OCCUPANTS	OUTSIDE AIR PER OCC. (CFM)	OUTSIDE AIR PER OCC. (CFM/50 FT.²)	DESIGN NUMBER OF PEOPLE	ACTUAL NUMBER OF PEOPLE	AIR SYSTEM EFFICIENCY	INITIAL ZONE OUTSIDE AIR (CFM)	SYSTEM DIVERSITY	UNCORRECTED OUTSIDE AIR (CFM)	DESIGN SUPPLY AIR (CFM)	OUTSIDE AIR RATIO (2%)	ACTUAL OUTDOOR OA (CFM)	ACTUAL OUTDOOR AIR %	NO. OF FIXTURES	EXHAUST REQUIREMENTS (CFM PER FIXTURE)	REQUIRED (CFM)
SALES AREA	40,000	40,000	75	0.06	0.06	289	289	80%	6314	100%	4891	27000	0.28	5231	23.0%	0	0	0
BACKROOM	2,700	2,025	0	0	0.12	0	0	80%	324	100%	243	900	0.34	207	23.0%	0	0	0
CUSTOMER SERVICE	208	208	5	5	0.06	2	2	80%	28	100%	22	150	0.19	35	23.0%	0	0	0
ACCOUNTING	178	178	5	5	0.06	1	1	80%	20	100%	16	250	0.08	58	23.0%	0	0	0
<b>TOTALS:</b>	<b>51,146</b>	<b>50,471</b>				<b>292</b>	<b>292</b>		<b>6665</b>		<b>5332</b>	<b>24000</b>		<b>5520</b>				

NOTE 1: The design number of people shown for each room is the estimated maximum for each room per Ohio Mechanical Code. The actual number of people is based on either the estimated actual occupancy or the short term occupancy.  
 NOTE 2: The ventilation calculations for this schedule are based on Ohio Mechanical Code.



**PREFABRICATED RTU CURB**  
ARCHITECTURAL STANDARD DETAILS  
DATE: 01/31/20  
SCALE: NONE  
DRAWING: ASD-78

**RTU WIND-SEISMIC RESTRAINT BRACKET**  
DATE: 11/15/17  
SCALE: NONE  
DRAWING: ZAW  
HSD-10

**GAS PIPING CONNECTIONS AT ROOF TOP UNITS**  
DATE: 1/20/09  
SCALE: NONE  
DRAWING: DCS  
PSD-55

**COMcheck Software Version 4.1.4.1**  
**Mechanical Compliance Certificate**

**Project Information**

Energy Code: 90.1 (2007) Standard  
 Project Title: KROGER A405  
 Location: Cincinnati, Ohio  
 Climate Zone: 4a  
 Project Type: Alteration

Construction Site: E241 Vine Street, Cincinnati, OH 45216  
 Owner/Agent: KROGER CINCINNATI DIVISION  
 Designer/Contractor: ANTHONY LOZIER, ELEVAR, 555 CAMB STREET, CINCINNATI, OH 45203, 513-721-0600, TLOZIER@ELEVAR.COM

**Mechanical Systems List**

**Quantity System Type & Description**

2 RTU-4  
 Heating: 1 each - Central Furnace, Gas, Capacity = 850 kBtu/h  
 Proposed Efficiency = 80.00% Eo, Required Efficiency: 80.00% Eo  
 Cooling: 1 each - Single Package DX Unit, Capacity = 693 kBtu/h, Air-Cooled Condenser  
 Proposed Efficiency = 10.40 EER, Required Efficiency: 9.80 EER + 9.9 IPLV  
 Fan System: FAN SYSTEM 1 - Compliance (Motor nameplate HP method) - Passes  
 Fans: FAN 1 Supply, Single-Zone VAV, 18750 CFM, 20.0 motor nameplate hp  
 SYSTEM VERIFICATION REQUIRED.

**Mechanical Compliance Statement**

Compliance Statement: The proposed mechanical alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 90.1 (2007) Standard requirements in COMcheck Version 4.1.4.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

Project Title: KROGER A405 Report date: 01/29/21  
 Data filename: E:\KROG\_CIN-DIV\WVW11362.00-A405-Cincinnati-OH-HVAC\Drawings\11-Mech\ComCheck\A909.cck Page 1 of 8

**COMcheck Software Version 4.1.4.1**  
**Inspection Checklist**

Energy Code: 90.1 (2007) Standard  
 Requirements: 0.0% were addressed directly in the COMcheck software  
 Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req ID	Plan Review	Complies?	Comments/Assumptions
4.2.2 [PR2]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
4.2.2, 7.4.1 [PR3]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the service water heating systems and equipment and document where exceptions to the standard are claimed. Hot water system sized per manufacturer's sizing guide.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.7.2.4 [PR3]	Detailed instructions for HVAC systems commissioning included on the plans or specifications for projects >=50,000 ft <sup>2</sup> .	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

**Additional Comments/Assumptions:**

Project Title: KROGER A405 Report date: 01/29/21  
 Data filename: E:\KROG\_CIN-DIV\WVW11362.00-A405-Cincinnati-OH-HVAC\Drawings\11-Mech\ComCheck\A909.cck Page 2 of 8

Section # & Req ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
6.4.3.8 [FOF]	Freeze protection and snow/ice melting system sensors for future connection to controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

**Additional Comments/Assumptions:**

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Section # & Req ID	Mechanical Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.4.1.4, 6.4.1.5 [ME1]	HVAC equipment efficiency verified. Non-AHJCA HVAC equipment labeled as meeting 90.1.	Efficiency: _____	Efficiency: _____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Mechanical Systems list for values.
6.4.3.4.1 [ME3]	Stair and elevator shaft vents have motorized dampers that automatically close.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.4.3.4.2, 6.4.3.4.3, 6.4.3.4.4 [ME4]	Outdoor air and exhaust systems have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Check gravity dampers where allowed.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.4.3.4.5 [ME5]	Ventilation fans >= 75 hp have automatic controls to shut off fan when not required.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.4.3.9 [ME6]	Demand control ventilation provided for spaces >300 ft <sup>2</sup> and >40 people/1000 ft <sup>2</sup> occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow >=3,000 cfm.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.4.4.1.1 [ME7]	Insulation exposed to weather protected from damage. Insulation outside of the conditioned space and associated with cooling systems is vapor retardant.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.4.4.1.2 [ME8]	HVAC ducts and plenums insulated.	R: _____	R: _____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.4.4.1.3 [ME9]	HVAC piping insulation thickness: _____ in.		_____ in.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.4.4.2.1 [ME10]	Ducts and plenums sealed based on static pressure and location.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.4.4.2.2 [ME11]	Ductwork operating >3 in. water column requires air leakage testing.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.5.2.3 [ME19]	Dehumidification controls provided to prevent reheating, recirculating, mixing of hot and cold airstreams or concurrent heating and cooling of the same airstream.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

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Section # & Req ID	Mechanical Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.5.4.1 [ME2]	HVAC pumping systems >10 hp designed for variable fluid flow.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.5.6.1 [ME30]	Exhaust air energy recovery on systems >=5,000 cfm and 70% of design supply air.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.5.7.1 [ME32]	Kitchen hoods >5,000 cfm have make up air >=50% of exhaust air volume.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.5.7.2 [ME33]	Fume hoods exhaust systems >=15,000 cfm have VAV hood exhaust and supply systems, direct make-up air or heat recovery.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.5.8.1 [ME34]	Unheated spaces that are heated use only radiant heat.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.5.9 [ME35]	Hot gas bypass limited to: <=240 kBtu/h - 50% >240 kBtu/h - 25%			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

**Additional Comments/Assumptions:**

Project Title: KROGER A405 Report date: 01/29/21  
 Data filename: E:\KROG\_CIN-DIV\WVW11362.00-A405-Cincinnati-OH-HVAC\Drawings\11-Mech\ComCheck\A909.cck Page 5 of 8

Section # & Req ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
10.4.1 [EL9]	Electric motors meet requirements where applicable.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

**Additional Comments/Assumptions:**

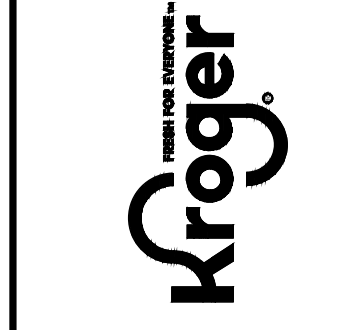
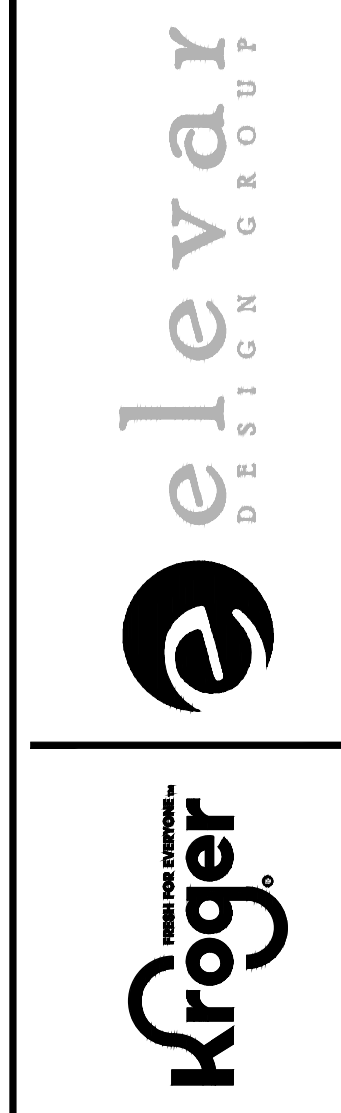
Project Title: KROGER A405 Report date: 01/29/21  
 Data filename: E:\KROG\_CIN-DIV\WVW11362.00-A405-Cincinnati-OH-HVAC\Drawings\11-Mech\ComCheck\A909.cck Page 6 of 8

Section # & Req ID	Final Inspection	Complies?	Comments/Assumptions
6.4.3.1.1 [FOF]	Heating and cooling to each zone is controlled by a thermostat control.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.4.3.1.2, 6.4.3.1.3, 6.4.3.1.4 [FOF]	Thermostatic controls have a 5 °F deadband.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.4.3.3 [FOF]	Systems with air capacity >=10,000 cfm include optimum start controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.4.3.7 [FOF]	When humidification and dehumidification are provided to a zone, simultaneous operation is prohibited.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.7.2.1 [FOF]	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.7.2.2 [FOF]	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.7.2.3 [FOF]	An air and/or hydronic system balancing report is provided for HVAC systems serving zones >=5,000 ft <sup>2</sup> of conditioned area.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.7.2.4 [FOF]	HVAC control systems have been tested to ensure proper operation, calibration and adjustment of controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.4.3.2 [FOF]	Temperature controls have setpoint overlap restrictions.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.4.3.3.1 [FOF]	HVAC systems equipped with at least one automatic shutdown control.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.4.3.3.2 [FOF]	Setback controls allow automatic restart and temporary operation as required for maintenance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

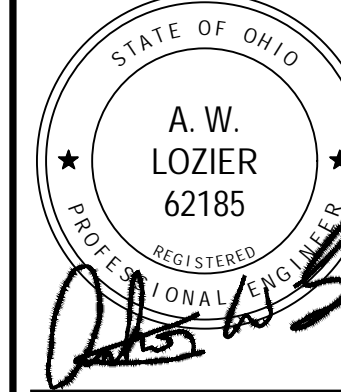
**Additional Comments/Assumptions:**

Project Title: KROGER A405 Report date: 01/29/21  
 Data filename: E:\KROG\_CIN-DIV\WVW11362.00-A405-Cincinnati-OH-HVAC\Drawings\11-Mech\ComCheck\A909.cck Page 7 of 8

Project Title: KROGER A405 Report date: 01/29/21  
 Data filename: E:\KROG\_CIN-DIV\WVW11362.00-A405-Cincinnati-OH-HVAC\Drawings\11-Mech\ComCheck\A909.cck Page 8 of 8



A405 HVAC REPLACEMENT  
 8241 VINE STREET, CINCINNATI, OH 45216  
 KROGER CINCINNATI DIVISION



ISSUED DATE: 4/14/2021

NO PERMIT

PROJECT TITLE: HVAC COM CHECK  
 SCALE: NOTED  
 DRAWN BY: DATE: 4/14/2021  
 SHEET: M6.1

