

THE HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING THE HOODS, ROOF-TOP UNITS, EXHAUST FANS, DUCTWORK, INSULATION, WARP, DIFFUSERS, SMOKE DETECTORS, AND TEMPERATURE CONTROLS.

THE HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF THE HOODS AND ROOF-TOP UNITS TO MEET ALL LOCAL, STATE AND FEDERAL REQUIREMENTS. THE HOODS ON SITE FROM MOST-RECENT KITCHEN EQUIPMENT PLANS. ALL FANS ARE TO BE INSTALLED TO MEET ALL LOCAL, STATE AND FEDERAL REQUIREMENTS.

ALL KITCHEN EQUIPMENT CURBS ARE TO BE SUPPLIED BY THE HVAC CONTRACTOR.

ALL CURB UNITS ARE TO BE FABRICATED FROM 18 GA. GALVANIZED METAL WITH FULLY WELDED SEAMS. WATER TIGHT AND INTERNALLY INSULATED. FACTORY CURB CONVERSION SHALL NOT BE ACCEPTED.

ALL CURB UNITS ARE TO BE PROVIDED BY HVAC CONTRACTOR BETWEEN THE ROOF DECK AND THE CURBS TO COMPENSATE FOR ROOF PITCH.

8. ALL DUCTWORK IS TO BE INDEPENDENTLY HUNG FROM STRUCTURAL MEMBERS.

9. ALL DUCTWORK IS TO BE FABRICATED, INSTALLED, SEALED, AND EXTERNALLY INSULATED PER SMCMA LOW-VELOCITY DUCT MANUAL (LATEST ISSUE), INTERNALLY LINED DUCTWORK IS NOT ALLOWED.

10. UNLESS OTHERWISE NOTED, ALL SUPPLY TAKEOFFS ARE TO HAVE A MANUAL VOLUME CONTROL DAMPER.

11. The HVAC CONTRACTOR IS TO COORDINATE WORKER LOCATIONS ON SITE WITH THE MOST RECENT SELECTED CEILING PLANS.
12. The HVAC CONTRACTOR IS TO FURNISH A WRITTEN GUARANTEE CONCERNING A ONE-YEAR PERIOD FOR ALL HVAC EQUIPMENT AND PROVIDE AN ADDITIONAL FOUR-YEAR PERIOD FOR THE COMPRESSORS IN THE INT'L. ALL THIS TO BE L.I.S.T.E.D.
13. THE HVAC CONTRACTOR SHALL PROVIDE, OR HAVE A SUFFICIENT INVENTORY THAT HIS SUPPLIERS CAN PROVIDE, ALL REFRIGERANT GAS TO BE SET TO AMOUNTS INDICATED ON THE CEILING PLANS AND SCHEDULES.
14. THE HVAC CONTRACTOR IS TO FURNISH AND INSTALL ALL LOW-VOLTAGE WIRING, AND MAKE ALL LOW-VOLTAGE WIRING FINAL CONNECTIONS FOR ALL HVAC EQUIPMENT.

[illegible]

- [illegible]

1. THE PLUMBING CONTRACTOR IS TO PROVIDE AND INSTALL CONDENSATE DRAINS/GAS PIPING FOR ALL HVAC EQUIPMENT, AND PITCH POCKETS FOR RTU CONNECTIONS. NOT PENETRATING BOTTOM OF RTU CURB.

2. THE PLUMBING CONTRACTOR IS TO COORDINATE PLUMBING VENT STACKS AND WATER HEATER FLUES WITH OUTSIDE AIR INTAKES OF A/C UNITS. 10"-0" MINIMUM CLEARANCE REQUIRED ON PER LOCAL CODE.

3. THE PLUMBING CONTRACTOR IS TO PROVIDE AND INSTALL FLUE GAS EXHAUST VENT FOR WATER HEATER. MAINTAIN 10"-0" MINIMUM CLEARANCE TO AIR INTAKES, OR PER LOCAL CODE. COORDINATE ON SITE WITH G.C. AND HVAC CONTRACTOR.

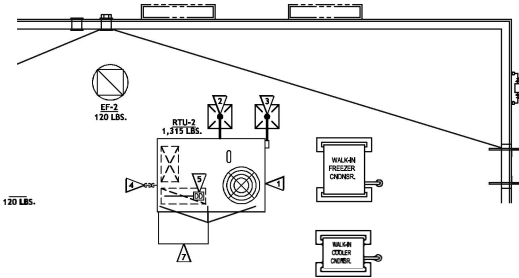
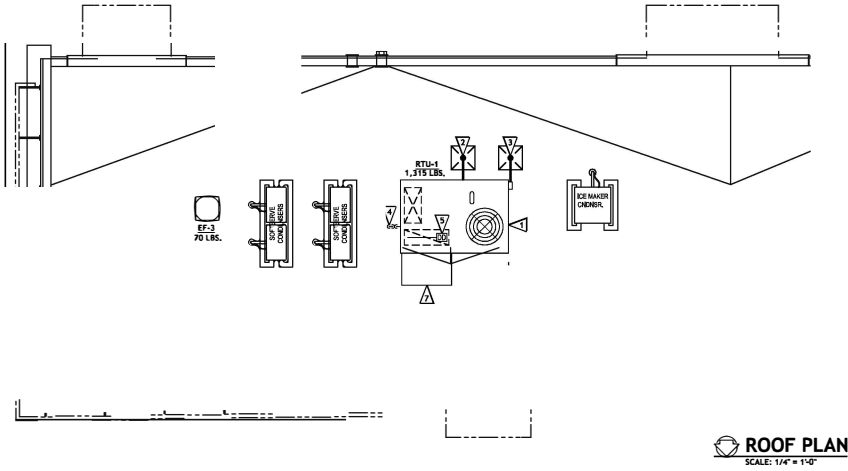
PROVIDE TYPE—GREASE HOOD OVER COOKLINE APPURTENANCES WITH UL LISTED FACTORY MANUFACTURED, NON-WELD, DOUBLE-WALLED, GREASE INSULATED, DUCT WITH CONNECTION ON DUCT TO EXHAUST FAN ON ROOF. REFER TO INSTRUCTIONS THAT SHIP WITH THE HOODS AND DUCT OFFSET AND TRANSITION AT CONNECTIONS AS NEEDED. VERY DIMENSIONS PRIOR TO FABRICATION OR INSTALLATION. REFER TO HOOD DETAILS SHEET, THIS SET. CONFIRM LOCATION ON SITE WITH MOST RECENT KITCHEN PLANS. ALL WORK IS TO BE PERFORMED PER NFPA AND LOCAL CODES, INCLUDING THE PROVISIONS OF FIRE WRAP AND ACCESS DOORS.

**REFERENCE NOTES:**

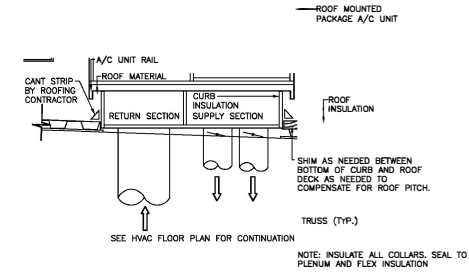
- [illegible]

1. ALL DUCTWORK SHALL BE FLEXIBLE DUCT UNLESS OTHERWISE NOTED.
2. ALL DUCTWORK AND FITTINGS SHOWN SHADED SHALL BE RIGID DUCT.
3. DUCTWORK SHALL BE ROUTED THROUGH TRUSS SPACE.





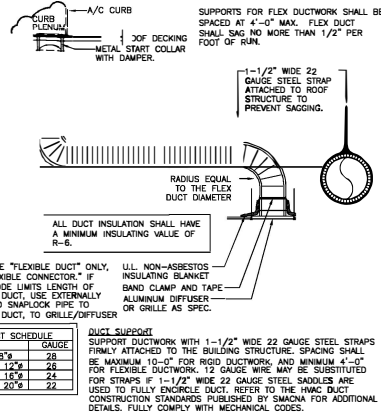
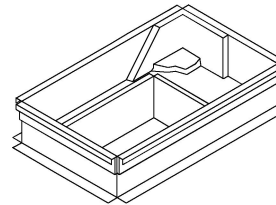
- REFERENCE NOTES:**
- SHIM BETWEEN BOTTOM OF CURB AND ROOF DECK TO MAKE CURB LEVEL.
  - NATURAL GAS ROOF PENETRATION. CONN ECTION TO RTU BY PLUMBING CONTRACTOR.
  - ELECTRICAL CONDUIT ROOF PENETRATION. CON NECTION TO RTU BY ELECTRICAL CONTRACTOR.
  - CON DENSATE DRAIN WITH EXTERNAL 4" DEEP P-TRAP INSTALLED BY HVAC CONTRACTOR.
  - SMOKE DETECTOR INSTALL IN RETURN SECTION OF RTU UNITS. SEED DRAWING M-1 FOR ADDITIONAL DETAILS.
  - WATER HEATER INTAKE AND EXHAUST WITH APPROVED CAP PROVIDED BY PLUMBING CONTRACTOR.
  - OUTSIDE AIR HOOD MAINTAIN 10'-0" MINIMUM FROM EXHAUST OR PLUMBING VENTS.



## DUCT RISER/LEVELING DETAIL

## PLENUMIZED CURB INSTALLATION NOTES

- CAREFULLY LOCATE AND MARK ROOF CURB LOCATIONS SO THAT DUCT WORK CAN BE INSTALLED IN THE APPROXIMATE LOCATIONS AS SHOWN BY THE FLOOR PLAN. PAY ATTENTION TO THE LOCATION OF THE ROOF STRUCTURE IN ORDER TO ACCOMMODATE THE DUCT DROPS.
- MARK THE EXACT LOCATION OF EACH ROOF CURB. LAY OUT ALL EQUIPMENT LOCATIONS IN ORDER TO MAINTAIN PROPER CLEARANCES FROM EXHAUST FANS AND VENTS AS WELL AS PROVIDING FOR PROPER SERVICE CLEARANCES.
- GENERAL CONTRACTOR SHALL CUT ROOF DECKING MATERIAL TAKING CARE TO AVOID CUTTING ANY STRUCTURAL COMPONENTS. GENERAL CONTRACTOR SHALL ALSO INSTALL ANY NECESSARY FRAMING OR BLOCKING AT OPENINGS.
- WITH ROOF CURB UPSIDE DOWN (SOLID METAL BOTTOM UP) MEASURE AND MARK THE LOCATION OF ANY JOISTS OR OTHER FRAMING MEMBERS THAT MUST BE ADDED. MEASURE AND MARK THE LOCATION OF ALL THE DUCT TAPS.
- CUT ALL DUCT TAPS INTO THE BOTTOM PANEL OF THE ROOF CURB. BE CAREFUL NOT TO DAMAGE THE ROOFING SURFACE WHILE MAKING THESE CUTS.
- INSTALL DUCT TAP FITTINGS AND MANUAL DAMPERS INTO THE OPENINGS PREVIOUSLY CUT. SEAL ALL CONNECTIONS ON BOTH THE BOTTOM AND THE TOP SIDES OF THE TAPS.
- FLATTEN TAB OF STIFF COLLAR INSIDE CURB. TIGHT AGAINST INSULATION. SEAL INSIDE OF COLLAR AND TABS TO INSULATION USING MASTIC DUCT SEALER. ALLOW SEALER TO DRY PRIOR TO PROCEEDING.
- APPLY DUCT SEALER TO OPEN END OF COLLAR. SLIDE INNER CORE OF FLEXIBLE DUCT ONTO COLLAR, AND CONNECT PANDUIT STRAP PER MANUFACTURER'S INSTRUCTIONS.
- SLIDE OUTER INSULATION SLEEVE OF FLEX TIGHT TO BOTTOM OF CURB. SEAL INSULATION TO BOTTOM OF CURB WITH PRESSURE-SENSITIVE FOIL TAPE. DO NOT USE TAPE MEANT FOR RIGID DUCTBOARD. SQUEEZE OUT ALL AIR BUBBLES FOR PROPER ADHESION.
- TURN CURB RIGHT SIDE UP. LEVEL CURB BETWEEN BOTTOM OF CURB AND DECK. INSTALL IN ROOF OPENING. SECURE CURB TO ROOF FRAMING AS REQUIRED.
- GENERAL CONTRACTOR OR ROOFING CONTRACTOR SHALL FLASH AND ROOF IN THE CURB AS DETAILED ON THE DRAWINGS.
- INSIDE BUILDING, THE DUCT RUNS SHALL BE INSTALLED FROM THE TAPS TO THE DIFFUSER LOCATIONS AS SHOWN ON THE PLANS. SUPPORT PER SMACNA AND LOCAL CODES.
- NOTE: IF NECESSARY, FLEX DROPS MAY BE CONNECTED TO TAPS AFTER CURB HAS BEEN INSTALLED. REFER TO STEPS #8 AND #9.

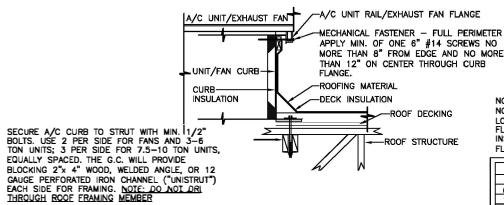


NOTE: USE "FLEXIBLE DUCT" ONLY. NOT "FLEXIBLE CONNECTOR." IF LOCAL CODE LIMITS LENGTH OF FLEXIBLE DUCT, USE EXTERNALLY INSULATED SNAPLOCK PIPE TO FLEXIBLE DUCT, TO GRILLE/DIFFUSER.

U.L. NON-ASBESTOS INSULATING BLANKET BAND CLAMP AND TAPE ALUMINUM DIFFUSER OR GRILLE AS SPEC.

DUCT SCHEDULE	
SIZE	GAUGE
8" - 8"	28
10" - 14"	26
14" - 18"	24
18" - 20"	22

**DUCT SUPPORT**  
SUPPORT DUCTWORK WITH 1-1/2" WIDE 22 GAUGE STEEL STRAPS FIRMLY ATTACHED TO THE BUILDING STRUCTURE. SPACING SHALL BE MAXIMUM 10'-0" FOR RIGID DUCTWORK, AND MINIMUM 4'-0" FOR FLEXIBLE DUCTWORK. 12 GAUGE WIRE MAY BE SUBSTITUTED FOR STRAPS IF 1-1/2" WIDE 22 GAUGE STEEL SADDLES ARE USED TO FULLY ENCASE DUCT. REFER TO THE HVAC DUCT CONSTRUCTION STANDARDS PUBLISHED BY SMACNA FOR ADDITIONAL DETAILS. FULLY COMPLY WITH MECHANICAL CODES.



ACCEPTABLE FOR 140 MPH WIND ZONE  
VERIFY ON SITE WITH GENERAL CONTRACTOR

## ROOF EQUIP. CURB MOUNTING DETAIL

## RIGID/FLEX DUCT CONNECTION/INSTALL DETAIL

## NCA PLENUMIZED AC CURB DETAIL

PROJECT  
NEW BUILDING FOR:

ROOF PLAN

PROJECT NO.  
SHEET NO.



[illegible]

--	--

883