NOTE: THE EXHAUST RISERS CANNOT BE OFFSET. TRUSSES CLOSEST TO THE EXHAUST RISERS MUST BE SPACED SO THAT THE RISERS CAN BE INSTALLED PLUMB ON BOTH AXES. FIELD VERIFY AND COORDINATE WITH GENERAL CONTRACTOR.

DRAWING INFORMATION		
DATE	DESCRIPTION	BY
05-13-18	FOR CONSTRUCTION	KM

N-C-A
CONSULTANTS/GROUP
4585 140TH AVE. NORTH, SUITE #1001
CLEARWATER, FLORIDA
PHONE: (877) 530-0078
CALL NCA MARKETING FOR PRICING
NCA JOB# 18-576

DRAWN BY: MRW | CHECKED BY: JH, ENH | DATE: 05/22/18
NO. | DATE: 05/22/18 | RELEASED FOR CONSTRUCTION & BID

WOODEN FRAMING MEMBER. VERIFY LOCATION ON SITE (TYP.)

ELECTRICAL CONTRACTOR AND PLUMBING CONTRACTOR WILL PROVIDE PITCH POCKETS FOR HVAC EQUIPMENT CONNECTIONS. DO NOT PENETRATE BOTTOM OF FAN OR RTU CURB.

NOTE: FACTORY CURB CONVERSION SHALL NOT BE ACCEPTED. FOR ORDERING INFORMATION REFER TO THE NCA HVAC EQUIPMENT PACKAGE NOTE, SHEET M-1.

The General Contractor and the HVAC Contractor shall maintain distances from center of exhaust riser to the p/c unit curb as shown on this plan. Any discrepancies shall be reported immediately to the NCA Design Department at toll-free 877.530.0078 and the site-specific architect.

EF-2

EF-1

HVAC CONTRACTOR SHALL NOT DISASSEMBLE THE EXHAUST FAN TO RECONFIGURE THE EXHAUST DISCHARGE

SHIM BETWEEN BOTTOM OF CURB AND DECK TO MAKE CURB LEVEL.

LOCATION OF ELECTRICAL DISCONNECT AND CONTROL WIRING ENTRANCE. REFER TO ELECTRICAL PLANS (TYPICAL.)

ELECTRICAL PENETRATION THROUGH ROOF WITH PITCH POCKET. PROVIDED BY ELECTRICAL CONTRACTOR (TYPICAL.)

RTU-1 (DASHED AREA CURB)

NATURAL GAS CONNECTION (TYPICAL.)

GAS PIPE PENETRATION THROUGH ROOF WITH PITCH POCKET. PROVIDED BY PLUMBING CONTRACTOR (TYPICAL.)

RTU-2 (DASHED AREA CURB)

SHIM BETWEEN BOTTOM OF CURB AND DECK TO MAKE CURB LEVEL.

OUTSIDE AIR HOOD. MAINTAIN 10'-0" MINIMUM FROM ANY EXHAUST OR PLUMBING VENTS (TYPICAL.)

SMOKE DETECTOR. INSTALL IN RETURN SECTION OF CURB WITH SAMPLING TUBE IN RETURN AIRSTREAM. **IF RTU HAS AN ECONOMISER, INSTALL DETECTOR IN RETURN GRILLE CAN** (TYPICAL.)

CONDENSATE DRAIN WITH EXTERNAL, 4" DEEP P-TRAP INSTALLED BY HVAC CONTRACTOR. PLUMBING CONTRACTOR SHALL EXTEND DRAIN TO ACCEPTABLE LOCATION (TYPICAL.)

SHIM BETWEEN BOTTOM OF CURB AND DECK TO MAKE CURB LEVEL.

RTU-3 (DASHED AREA CURB)

NOTE: MAINTAIN A MINIMUM 0' - 0" CLEARANCE FROM ANY EXHAUST TO ANY FRESH AIR INTAKE (TYPICAL).

WATER HEATER FLUE WITH APPROVED CAP INSTALLED BY PLUMBING CONTRACTOR (TYP. 2)

RTU-4 (DASHED AREA CURB)

SHIM BETWEEN BOTTOM OF CURB AND DECK TO MAKE CURB LEVEL.

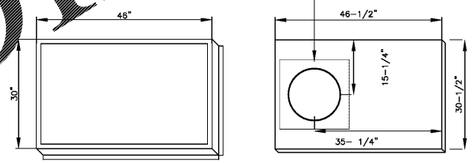
NOTE: MAINTAIN A MINIMUM 10'-0" CLEARANCE FROM ANY EXHAUST TO ANY FRESH AIR INTAKE (TYPICAL).

EF-3

ROOF PLAN - HVAC

SCALE: 1/4" = 1'-0" WHEN PLOTTED 36" x 24"

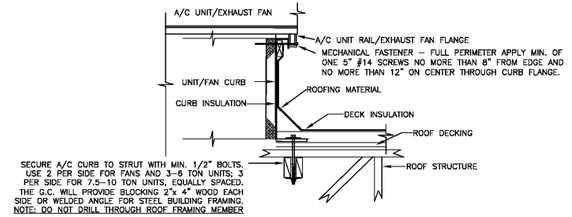
ROOF OPENING 22.5X22.5



ROOF CURBS | FLANGED CURB EXHAUST PLATES

EXHAUST FAN CURB/CURB PLATE

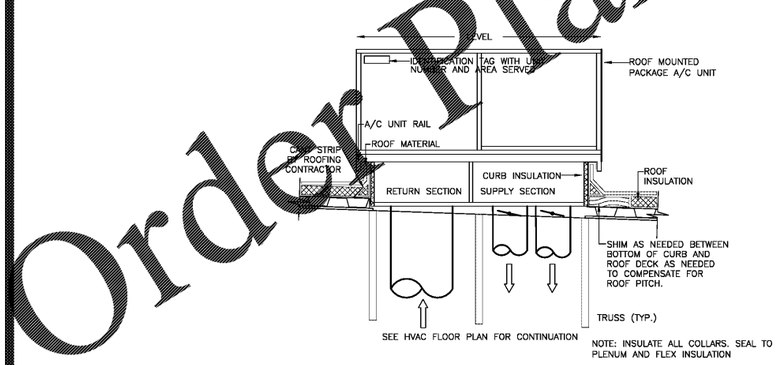
NOT TO SCALE



ACCEPTABLE FOR 140 MPH ZONE

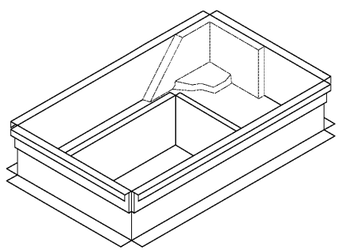
ROOF EQUIP. CURB MOUNTING DETAIL

NOT TO SCALE



DUCT RISER/LEVELING DETAIL

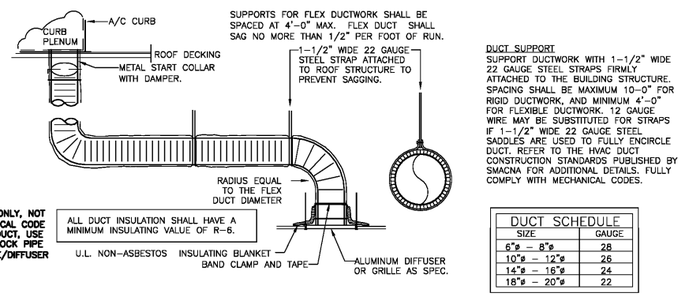
NOT TO SCALE



FACTORY CURB CONVERSION SHALL NOT BE ACCEPTED.

NCA PLENUMIZED AC CURB DETAIL

NOT TO SCALE



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

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 ENCIRCLE DUCT. REFER TO THE HVAC DUCT CONSTRUCTION STANDARDS PUBLISHED BY SMACNA FOR ADDITIONAL DETAILS. FULLY COMPLY WITH MECHANICAL CODES.

DUCT SCHEDULE	
SIZE	GAUGE
6"ø - 8"ø	28
10"ø - 12"ø	26
14"ø - 16"ø	24
18"ø - 20"ø	22

FLEXDUCT CONNECTION/INSTALL DETAIL

NOT TO SCALE

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PREMIER KINGS, INC.
5529 CARMICHAEL ROAD
MONTGOMERY, ALABAMA 36117
PHONE:
LINDSEY@BKALABAMA.COM

James M. Hicken architect AIA
architecture • planning • interior design
2126 Morris Avenue
Birmingham, AL 35203
Phone (205) 322-1733
Fax (205) 322-1773
email info@jhicken.com
www.jhicken.com

SHANE R. HAMILTON
17717 N. HOWARD AVE TAMPA, FL
GEORGIA LICENSED PE #PE041331
No PE0041331
6/25/18
REGISTERED PROFESSIONAL ENGINEER
SHANE R. HAMILTON

PROJECT #: 16026.07
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U.S. Hwy 278
Covington, GA

HVAC ROOF PLANS AND HVAC DETAILS

M-2