

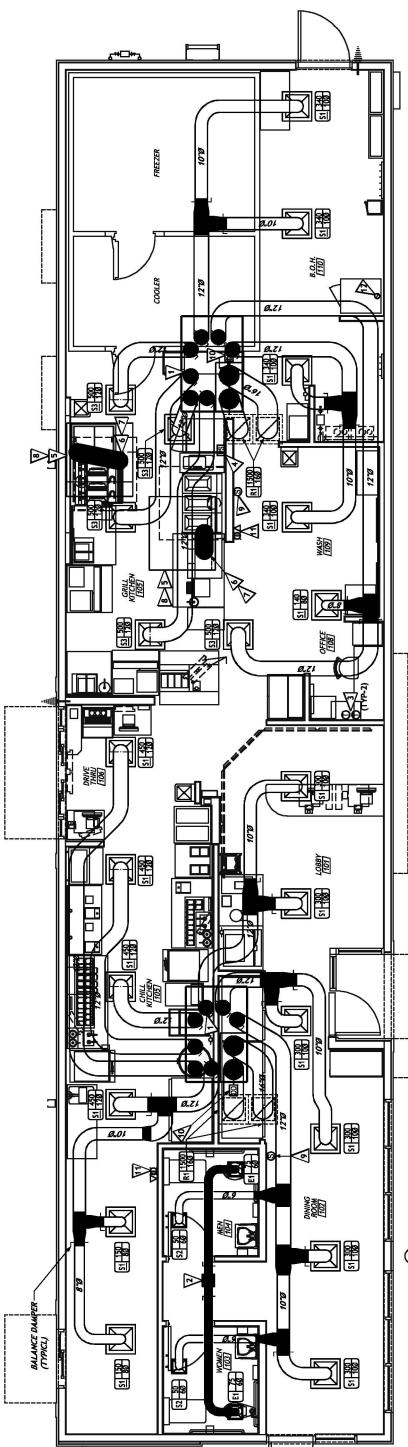
CONTRACTORS NOTES

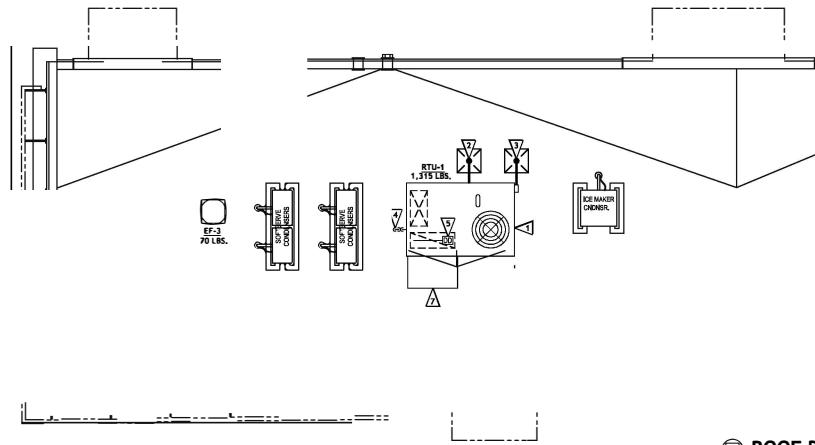
GENERAL NOTE:

REFERENCE NOTES: (THESE NOTES APPLY TO THIS PLAN ONLY)

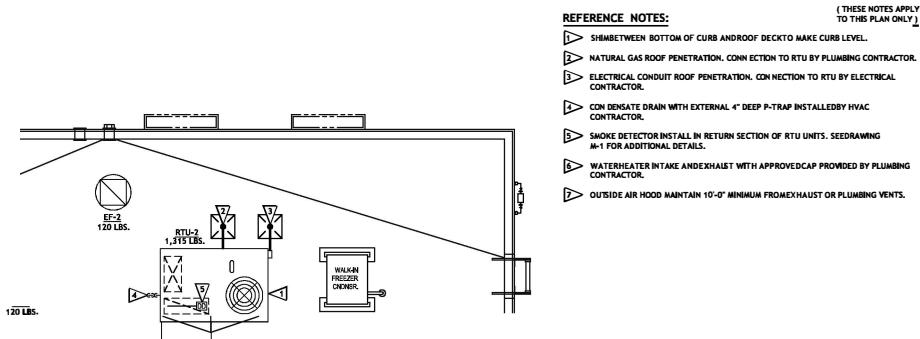
NOTES:

1. ALL DOWNTOWNS SHALL BE FILED
UNLESS OTHERWISE NOTED.





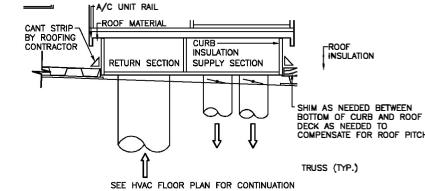
ROOF PLAN
SCALE: 1/4" = 1'-0"



(THESE NOTES APPLY TO THIS PLAN ONLY)

- ▷ SHIM BETWEEN BOTTOM OF CURB AND ROOF DECK MAKE CURB LEVEL.
- ▷ NATURAL GAS ROOF PENETRATION. CONNECTION TO RTU BY PLUMBING CONTRACTOR.
- ▷ ELECTRICAL CONDUIT ROOF PENETRATION. CONNECTION TO RTU BY ELECTRICAL CONTRACTOR.
- ▷ CONDENSATE DRAIN WITH EXTERNAL 4" DEEP P-TRAP INSTALLED BY HVAC CONTRACTOR.
- ▷ SMOKE DETECTOR INSTALL IN RETURN SECTION OF RTU UNITS. SEE DRAWING M-1 FOR ADDITIONAL DETAILS.
- ▷ WATERHEATER INTAKE AND EXHAUST WITH APPROVED CAP PROVIDED BY PLUMBING CONTRACTOR.
- ▷ OUTSIDE AIR HOOD MAINTAIN 10'-0" MINIMUM FROM EXHAUST OR PLUMBING VENTS.

ROOF MOUNTED PACKAGE A/C UNIT



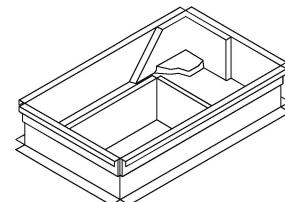
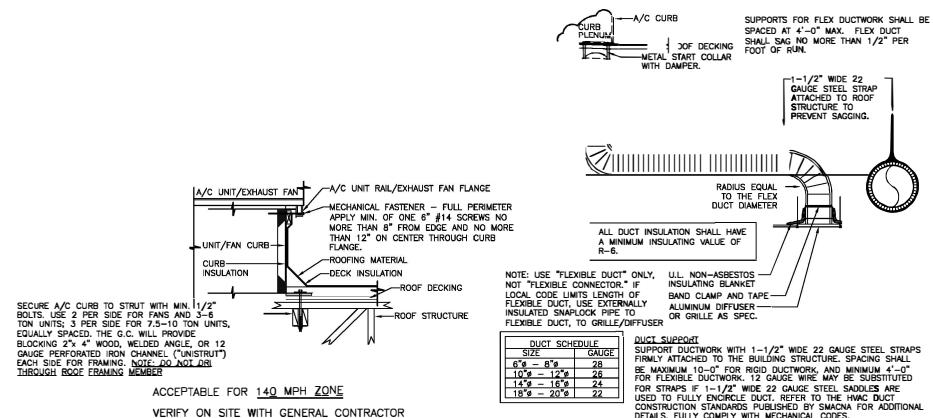
NOTE: INSULATE ALL COLLARS, SEAL TO PLUMIN AND FLEX INSULATION

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DUCT RISER/LEVELING DETAIL
M2

PLUMINIZED CURB INSTALLATION NOTES

1. 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.
2. 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 SERVICE CLEARANCES.
3. GENERAL CONTRACTOR SHALL CUT ROOF DECKING MATERIAL, TAKING CARE TO AVOID CUTTING ANY STRUCTURAL COMPOUNTS. CONTRACTOR SHALL NOT SHRED OR DAMAGE THE ROOF DECKING SURFACE.
4. WITH ROOF CURB UPRIGHT DOWN (GOLD METAL BOTTOM UP), MEASURE AND MARK THE LOCATION OF ANY JOISTS OR OTHER FRAMING MEMBERS THAT MUST BE AVOIDED. MEASURE AND MARK THE LOCATION OF ALL THE DUCT TAPS.
5. CUT ALL DUCT TAPS INTO THE BOTTOM PANEL OF THE ROOF CURB. BE CAREFUL NOT TO DAMAGE THE ROOFING SURFACE WHILE MAKING THESE CUTS.
6. INSTALL DUCT TAB FITTINGS AND MANUAL DAMPERS INTO THE OPENINGS PREVIOUSLY CUT. SEAL ALL CONNECTIONS ON BOTH THE BOTTOM AND THE TOP SIDES OF THE TAPS.
7. FLATTEN TAB OF START COLLAR INSIDE CURB, TIGHT AGAINST INSULATION. SEAL INSIDE OF COLLAR AND TABS TO INSULATION USING MANUFACTURER'S INSTRUCTIONS.
8. APPLY DUCT TAPE TO OPEN END OF COLLAR. SLIDE INNER CORE OF FLEXIBLE DUCT ONTO COLLAR, AND CONNECT PANOUT STRAP PER MANUFACTURER'S INSTRUCTIONS.
9. 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. SQUEEGEE OUT ALL AIR BUBBLES FOR PROPER INSULATION.
10. TURN CURB RIGHT SIDE UP, LEVEL CURB BETWEEN BOTTOM OF CURB AND DECK. INSTALL IN ROOF OPENING. SECURE CURB TO ROOF FRAMING AS REQUIRED.
11. GENERAL CONTRACTOR OR ROOFING CONTRACTOR SHALL FLASH AND ROOF IN THE CURB AS DETAILED ON THE DRAWINGS.
12. INSIDE BUILDING, THE DUCT TAPS SHALL BE INSTALLED FROM THE TAPS TO THE DIFFUSER LOCATIONS AS SHOWN ON THE PLANS. SUPPORT PER SMACNA AND LOCAL CODES.
13. NOTE: IF NECESSARY, FLEX DROPS MAY BE CONNECTED TO TAPS AFTER CURB HAS BEEN INSTALLED. REFER TO STEPS #8 AND #9.



NCA PLUMINIZED AC CURB DETAIL
M2

ROOF EQUIP. CURB MOUNTING DETAIL
M2

PROJECT
NEW BUILDING FOR:

ROOF PLAN

PROJECT NO.

SHEET NO.

MECHANICAL ABBREVIATIONS	
MACH	AIRCRAFT
BTUH	BTU PER HOUR
CFM	CUBIC FEET PER MINUTE
CD	CONDENSATE
DIA / Ø	DIA METER
DN	DOWN
DX	DIRECT EXPANSION
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EE	ELECTRICAL CONTRACTOR
EP	EXHAUST FAN
ELLC	ELECTRICAL
ESP	EXTERNAL STATIC PRESSURE
FPM	FEET PER MINUTE
FPA	FULL LOAD AMPS
FT	FEET
GC	GENERAL CONTRACTOR
HP	HORSEPOWER
KW	KILOWATT
LAT	LADING AND TEMPERATURE
MMT	MEDIAN TEMPERATURE
MMH	LINE TO LINE
MC	MECHANICAL CONTRACTOR
MFR	MANUFACTURER'S RECOMMENDED VALUE
MR	MANUFACTURER
NC	NONCIRCULATING
NEC	NATIONAL ELECTRIC CODE
NC	NOT IN CONTRACT
NTS	NOT TO SCALE
ODSAR	ODSAR
DA	PHASE
PH	PHASE
PSIG	Psi PRESSURE INCH GAGE
QTY	QUANTITY
RLA	RUNNING LOAD AMPS
RPM	REVOLUTION PER MINUTE
RTU	ROOM TERMINAL UNIT
TTT	TERMINAL THERMOSTAT
TPV	TEMPERATURE
W	WATTS
WC	WATER COLUMN

MECHANICAL SYMBOL LEGEND	
LC	JIG, WORKHOLDING
	SURVEY BY INFRARED INSPECTION
	RADAR FOR DESIGNATION
	AIM DEVICE, BOMBSIGHT
	AIM DEVICE, TURRET
	AIR DEVICE, APPROXIMATE
	ARMED ON REQUEST
	BALANCE TORQUE
	CLAW, GRIP, DISPOSITION (DROPPING) (NEW)
	TERMOSTAT

ROOFTOP UNIT SCHEDULE (DX/GAS)																								
RTU ID	MANUFACTURER	MODEL	SERVICE	SUPPLY FAIR SECTION				HEATING COIL SECTION				COOLING COIL SECTION				FILTER SECTION				ELECTRICAL DATA				
				OUTSIDE AIR (CFM)	AIRFLOW (CFM)	AMPS (HP)	WATT (W)	EAT (T)	LAT DOWN (F) LAT UP (F)	INPUT OUTPUT (MMH)	COP STAGES	EAT (T)	TYPE	AMPS	VOLT	POL	PHASE	MACD	OPERATING WEIGHT (LBS)	REAINS				
RTU1	CARRIER	4BFR110	DINING	1,000	4,000	0.50/0.5	1,666	2.20 / -	8456	127.3 / 110	56.4/17.2	200 / 164	2	R2	61.3	47.4	T	8	208	3	56	40	1,115	All
RTU2	CARRIER	4BFR011	KITCHEN	1,000	4,000	0.50/0.9	1,666	2.20 / -	8456	117.1 / 110	56.4/17.2	200 / 164	2	R2	61.3	47.4	T	8	208	3	56	40	1,115	All

VENTILATION SCHEDULE									
UNIT	ROOM NUMBER / ROOM NAME	AREA (SF)	OCCUPANT DENSITY (PERSONS/1000 SF)	OCCUPANTS	VENTILATION PER PERSON (CFM)	VENTILATION PER PERSON (CFM) (RATED)	SUBTOTALS		
							V _u (CFM)	V _t (CFM)	V _a (CFM)
R01-1	DINING	480	70	34	7.5	0.18	341	0.8	426
R01-2	CHELITCHEN	411	10	4	5	0.08	45	0.8	56
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								442	
								402	
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FAN SCHEDULE														
TAG ID	MANUFACTURER	MODEL	SERVICE	AIR FLOW (CFM)	FAN RPM	FAN POWER (W)	ELECTRICAL DATA			RELAYS				
							VOLT	PHASE	F/L					
EF-1	CAPTRIME	DURAFRA	INDO	800	.75	1,216	.56	DIRECT	120	1	6.3/-	-	120 VOLTS.	4
EF-2	CAPTRIME	DURAFRA	INDO	800	.75	1,216	.56	DIRECT	120	1	6.3/-	-	120 VOLTS.	4
EF-3	CAPTRIME	DURAFRA	RETURNS	150	.25	1,103	.164	DIRECT	120	1	1.5/-	-	70 VOLTS.	1 & 4

MECHANICAL SCHEDULE

MECHANICAL SPECIFICATIONS