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A/C EQUIPMENT SCHEDULE (BASED ON JCI/YORK; EQUAL BY LENNOX, CARRIER, OR TRANE IS ACCEPTABLE)

Unit Size	JCI MODEL NUMBER	EFFICIENCY	ELECTRICAL			EVAPORATOR FAN			COOLING							HEATING (LOW ELECTRIC)				DIMENSIONS & WEIGHTS	
		EER / SEER	V-Ph-Hz	MCA	MAX FUSE	CFM	HP	ESP (IN)	TEMP. (F) ENT. AIR DB	ENT. AIR WB	O/A AMB	LVG. AIR DB	LVG. AIR WB	CAPACITY MBH TOT.	CAPACITY MBH SEN.	TEMP. (F) ENT. AIR DB	CAPACITY LVG. AIR DB	KW IN	MBH OUT	DIMENSIONS L x W x H (IN)	WEIGHT (LBS)
7.5 Ton RTU-3	J07 ZF	11.2	208/240-3-60	43.4	50	3000	3	1.0	80	67	105	60.5	58.2	84.5	63.2	60	69.5	9	30.7	89 x 59 x 42	995
10 Ton RTU-2	J10 ZF	11.2	208/240-3-60	66.1	70	4000	3	1.0	80	67	105	59.8	58.1	114.0	87.4	60	74.2	18	61.4	89 x 59 x 51	1,182
12.5 Ton RTU-1	J12 ZF	11.2	208/240-3-60	81.2	100	5000	5	1.0	80	67	105	59.6	57.5	150.5	110.0	60	71.4	18	61.4	120 x 59 x 51	1,322

13 MECHANICAL EQUIPMENT SCHEDULE

SUPPLEMENTARY NOTES RELATIVE TO HVAC COMPLIANCE WITH THE CURRENT ENERGY CODE

(1) EACH COOLING & HEATING SYSTEM SHALL HAVE AT LEAST ONE SOLID-STATE PROGRAMMABLE THERMOSTAT THAT CAN START AND STOP THE SYSTEM UNDER DIFFERENT TIME SCHEDULES FOR SEVEN DIFFERENT DAY TYPES PER WEEK, ARE CAPABLE OF RETAINING PROGRAMMING AND TIME SETTING DURING LOSS OF POWER FOR A PERIOD OF AT LEAST 10 HOURS AND INCLUDE AN ACCESSIBLE MANUAL OVERRIDE OR EQUIVALENT FUNCTION THAT ALLOWS TEMPORARY OPERATION OF THE SYSTEM FOR UP TO TWO HOURS. HVAC CONTROL SYSTEMS SHALL BE TESTED TO ENSURE THAT CONTROL ELEMENTS ARE CALIBRATED, ADJUSTED, AND IN PROPER WORKING CONDITION. HVAC SYSTEMS SHALL HAVE THE OFF-HOUR CONTROLS REQUIRED BY THE CURRENT LOCAL ENERGY COMPLIANCE CODE. HEATING SYSTEMS SHALL BE EQUIPPED WITH CONTROLS THAT HAVE THE CAPABILITY TO AUTOMATICALLY RESTART AND TEMPORARILY OPERATE THE SYSTEM AS REQUIRED TO MAINTAIN ZONE TEMPERATURES ABOVE A HEATING SET POINT ADJUSTABLE DOWN TO 55F OR LOWER. COOLING SYSTEMS SHALL BE EQUIPPED WITH CONTROLS THAT HAVE THE CAPABILITY TO AUTOMATICALLY RESTART AND TEMPORARILY OPERATE THE SYSTEM AS REQUIRED TO MAINTAIN ZONE TEMPERATURES BELOW A COOLING SET POINT ADJUSTABLE UP TO 85F OR HIGHER OR TO PREVENT HIGH SPACE HUMIDITY LEVELS.

(2) EACH SYSTEM SHALL MEET THE MINIMUM EFFICIENCY REQUIREMENTS PER THE CURRENT ENERGY CONSERVATION CODE.

(3) EACH AIR DEVICE OR THE BRANCH DUCT TO THAT AIR DEVICE SHALL BE EQUIPPED WITH A MANUAL DAMPER TO FACILITATE AIR BALANCING.

(4) CONDENSATE SHALL BE DISCHARGED TO AN APPROVED PLUMBING FIXTURE OR DISPOSAL AREA.

(5) THERMAL INSULATION FOR BOTH REFRIGERANT AND CHILLED WATER PIPING AND DUCTWORK SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT ENERGY CONSERVATION CODE.

(6) IF AREA OF CONSTRUCTION IS 5,000 SF OR MORE, CONDITIONED SPACES ARE TO BE AIR BALANCED PER AABC OR NEBB STDS.

(7) IF THE CONDITIONED AREA IS 50,000 SF OR MORE, AFTER CONSTRUCTION, THE HVAC IS TO BE COMMISSIONED, AND A COMMISSIONING STATEMENT IS TO BE ISSUED AND SIGNED BY EITHER THE ARCHITECT OR ENGINEER OF RECORD.

(8) WITHIN 90 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE, RECORD DRAWINGS OF THE ACTUAL INSTALLATION SHALL BE PROVIDED TO THE BUILDING OWNER OR A DESIGNATED REPRESENTATIVE. RECORD DRAWINGS SHALL INCLUDE AS A MINIMUM THE LOCATION AND PERFORMANCE DATA ON EACH PIECE OF EQUIPMENT, GENERAL CONFIGURATION OF THE DUCT AND PIPE DISTRIBUTION SYSTEM, INCLUDING SIZES, AND THE TERMINAL AIR OR WATER DESIGN FLOW RATES. ALSO TO BE PROVIDED WITHIN 90 DAYS ARE OPERATING AND MAINTENANCE MANUALS INCLUDING AT A MINIMUM SUBMITTAL DATA STATING EQUIPMENT SIZE AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. OPERATION MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED. ALSO INCLUDED SHALL BE NAMES AND ADDRESSES OF AT LEAST ONE SERVICE AGENCY, HVAC CONTROLS SYSTEM MAINTENANCE AND CALIBRATION INFORMATION, WIRING DIAGRAMS, SCHEMATICS, AND CONTROL SEQUENCE DESCRIPTIONS. DESIRED OR FIELD- DETERMINED SET POINTS SHALL BE PERMANENTLY RECORDED ON CONTROL DRAWINGS, AT CONTROL DEVICES, OR FOR DIGITAL CONTROL SYSTEMS, IN PROGRAMMING COMMENTS. ALSO TO BE INCLUDED IS A COMPLETE NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE, INCLUDING SUGGESTED SET POINTS.

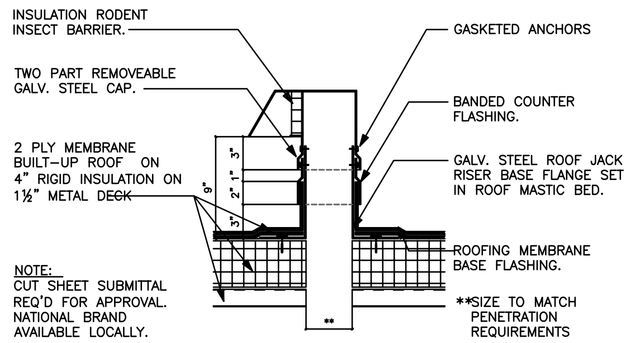
(9) BOTH OUTDOOR AIR SUPPLY AND EXHAUST SYSTEMS SHALL BE EQUIPPED WITH MOTORIZED DAMPERS THAT WILL AUTOMATICALLY SHUT WHEN THE SYSTEMS OR SPACES SERVED ARE NOT IN USE. SUCH DAMPERS SHALL HAVE A MINIMUM LEAKAGE RATE OF 0.3 CFM PER SQ. FT. VENTILATION OUTDOOR AIR DAMPERS SHALL BE CAPABLE OF AUTOMATICALLY SHUTTING OFF DURING PREOCCUPANCY BUILDING WARM-UP, COOL-DOWN, AND SETBACK, EXCEPT WHEN VENTILATION MUST BE SUPPLIED TO MEET CODE REQUIREMENTS (EXCEPTIONS: GRAVITY DAMPERS ARE ACCEPTABLE IN EXHAUST SYSTEMS FOR BLDGS. LESS THAN 3-STORIES AND FOR ANY HEIGHT; GRAVITY DAMPERS ARE ACCEPTABLE FOR O/A OR EXHAUST OF 300 CFM OR LESS; AND WHERE PROHIBITED BY CODE)

(10) EACH SYSTEM SHALL OPERATE WITH THE SET POINTS BETWEEN 70 AND 90 DEGREES. PROGRAMMABLE THERMOSTATS TO PROVIDE OWNERS PRESET TIMES AND TEMPERATURE OF OPERATION FOR COOLING AND HEATING SYSTEMS

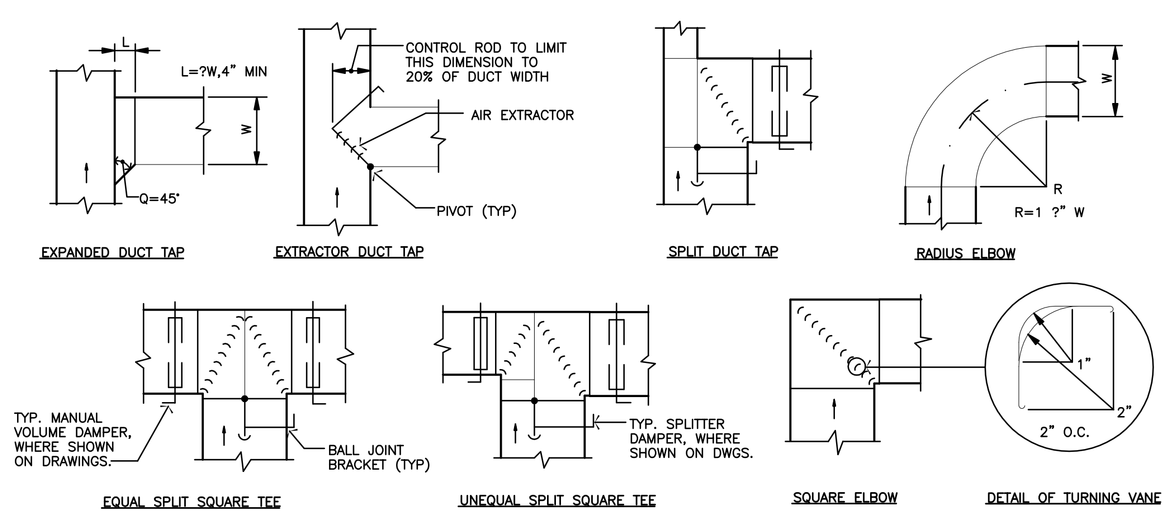
12 ENERGY CODE COMPLIANCE

1. ALL WORK TO MEET WITH THE LOCAL CITY AMENDMENTS AND LOCAL MECHANICAL BUILDING CODE REQUIREMENTS.
2. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
3. VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS WITH ARCHITECTURAL PLANS.
4. MECHANICAL CONTRACTOR TO VERIFY EXACT PLACEMENT OF SUPPLY & RETURN AIR DEVICES WITH REFLECTED CEILING LIGHTING LOCATIONS AND ARCHITECTURAL DRAWINGS FOR STRUCTURE TYPE.
5. DO NOT SCALE THESE DRAWINGS FOR DIMENSIONAL INFORMATION. IF THERE IS A CONFLICT WITH THE PLAN DIMENSIONS OR AN EXISTING FIELD CONTRACT ARCHITECT.
6. COORDINATE ALL WORK WITH EACH SUB CONTRACTOR AND GENERAL CONTRACTOR AND GENERAL CONTRACTOR CONTRACTOR (STRUCTURAL, ELECTRICAL, MECHANICAL, AND PLUMBING) PRIOR TO INSTALLATION AND CONNECTION OF EQUIPMENT.
7. MEASURE TO CENTER OF THE GRILLE LOCATIONS TO DETERMINE DISTANCES. GRILLES SHALL BE LOCATED WHERE SHOWN ON THE PLAN. GENERAL CONTRACTOR SHALL FRAME TO ACCOMMODATE.

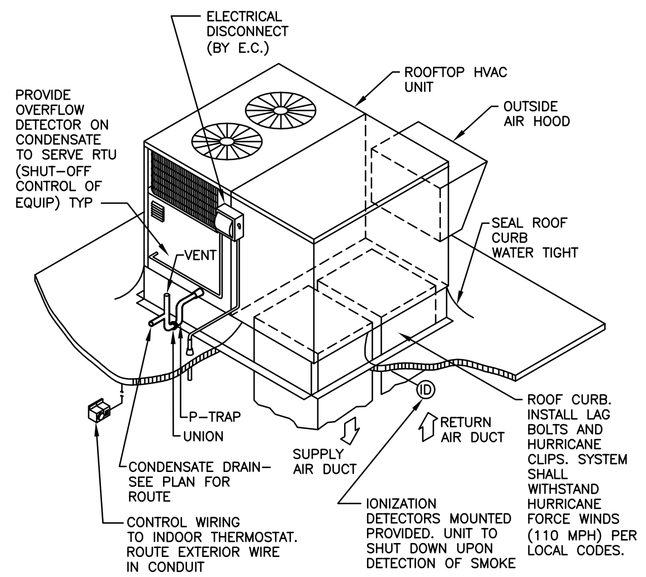
10 GENERAL NOTES



9 PIPING ROOF JACK

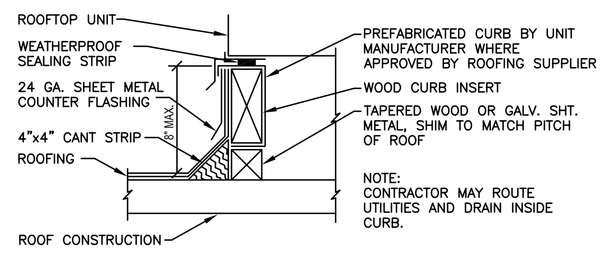


11 TYPICAL DUCT FITTINGS DETAIL

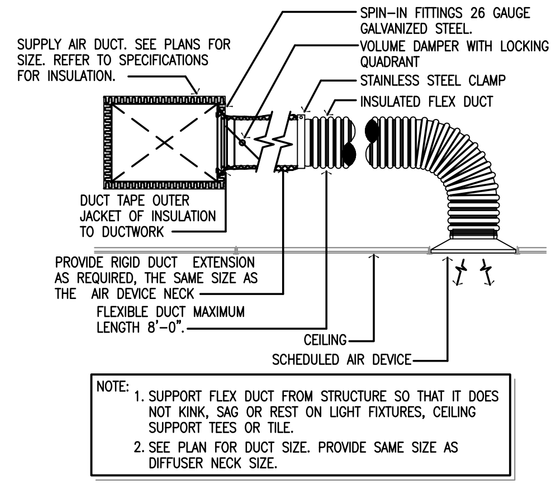


NOTE: CONTRACTOR MAY ROUTE UTILITIES AND DRAIN INSIDE CURB.

NOTES: TOP OF CURB TO BE LEVEL ALL FOUR SIDES. ALL CURBS FURNISHED BY GENERAL CONTRACTOR. CURB SHALL BEAR DIRECTLY ON STRUCT. STEEL, NOT ON METAL DECK. MECHANICAL UNIT MUST SIT LEVEL.

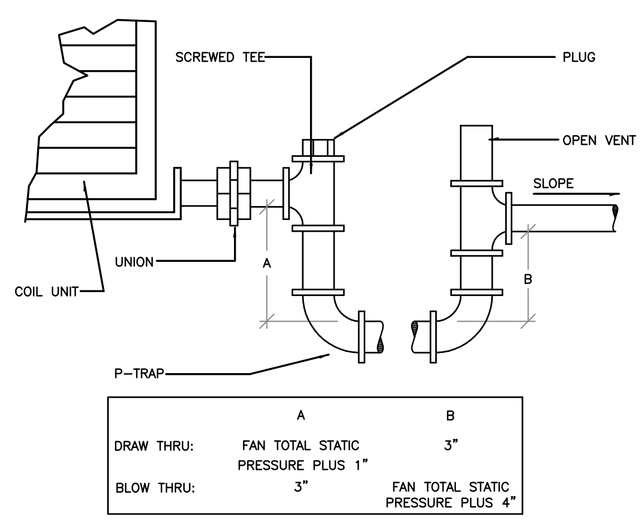


8 ROOF TOP UNIT DETAIL



NOTE:
1. SUPPORT FLEX DUCT FROM STRUCTURE SO THAT IT DOES NOT KINK, SAG OR REST ON LIGHT FIXTURES, CEILING SUPPORT TEES OR TILE.
2. SEE PLAN FOR DUCT SIZE. PROVIDE SAME SIZE AS DIFFUSER NECK SIZE.

7 AIR DIFFUSER CONNECTION



	A	B
DRAW THRU:	FAN TOTAL STATIC PRESSURE PLUS 1"	3"
BLOW THRU:	3"	FAN TOTAL STATIC PRESSURE PLUS 4"

6 AIR HANDLER CONDENSATE DRAIN

WALK-IN NOTES & CALCULATIONS

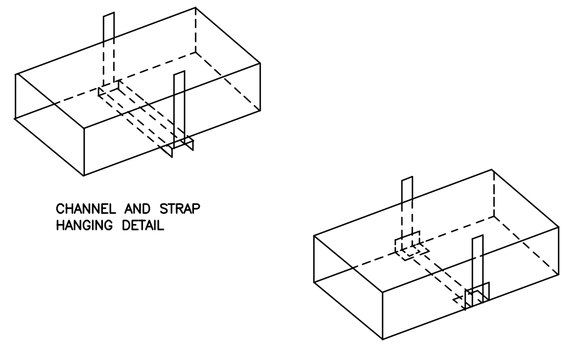
- WALK-IN COOLER/FREEZER PANELS TO BE HOUSTON CODE CLASS 1 MEETING CITY OF HOUSTON REQUIREMENTS FOR SMOKE TOXICITY AND FLAME SPREAD.
- WALK-IN COOLER/FREEZER CONDENSING UNIT TO MEET UNIFORM MECHANICAL CODE SECTION 1104 - REQUIREMENTS FOR REFRIGERANT AND REFRIGERATION SYSTEM USE.

TABLE 11-1 REFRIGERANT GROUPS AND ALLOWABLE QUANTITIES:

REFRIGERANT	ALLOWABLE POUNDS / 1000 CUBIC FEET	COMPARTMENT CUBIC FOOTAGE	ALLOWABLE POUNDS FOR THIS APPLICATION	SYSTEM POUNDS	COMPRESSOR HORSEPOWER
R-404A COOLER 1	16.9 POUNDS	355.77	6.01 POUNDS	6 POUNDS	1.5 HP
R-404A COOLER 2	16.9 POUNDS	421.35	7.12 POUNDS	7 POUNDS	1.5 HP

*** THIS SYSTEM DOES NOT REQUIRE A REFRIGERANT LEAK ALARM/MONITOR***

5 MECHANICAL COOLER CALCUATION



4 DUCT SUSPENSION DETAILS

ABV	ABOVE	EWH	ELECTRIC WATER HEATER	NK	NECK
AFF	ABOVE FINISHED FLOOR	FDV	FIRE DEPARTMENT VALVE	OA	OUTSIDE AIR
AHU	AIR HANDLING UNIT	FHC	FIRE HOSE CABINET	OBD	OPPOSED BLADE DAMPER
ARCH	ARCHITECTURAL	FHR	FIRE HOSE RACK	PSI	POUNDS PER SQUARE INCH
BOD	BOTTOM OF DUCT	FCO	FLOOR CLEANOUT	PRV	PRESSURE REDUCING VALVE
BLDG	BUILDING	GALV	GALVANIZED	RA	RETURN AIR
CI	CAST IRON	GAL	GALLONS	RCP	REINFORCED CONCRETE PIPE
℄	CENTER LINE	GPH	GALLONS PER HOUR	RD	ROOF DRAIN
CO	CLEANOUT	GPM	GALLONS PER MINUTE	SA	SUPPLY AIR
COG	CLEANOUT AT GRADE	HW	HOT WATER	SF	SUPPLY FAN
CONC	CONCRETE	IE	INVERT ELEVATION	SP	STATIC PRESSURE
CONN	CONNECTION	KW	KILOWATTS	SPEC	SPECIFICATIONS
CONT	CONTINUATION	LAV	LAVATORY	SS	STAINLESS STEEL
CW	DOMESTIC COLD WATER	MAX	MAXIMUM	TYP	TYPICAL
DN	DOWN	MECH	MECHANICAL	UH	UNIT HEATER
DIA	DIAMETER	MIN	MINIMUM	VTR	VENT THRU ROOF
DWG	DRAWING	MVD	MANUAL VOLUME DAMPER	WC	WATER CLOSET
ELEC	ELECTRICAL	MTD	MOUNTED	WCO	WALL CLEANOUT
EF	EXHAUST FAN	NIC	NOT IN CONTRACT		

3 GENERAL ABBREVIATIONS

	GAS FLUE RISER. VERIFY SIZE WITH PLANS.	vd	SIDE MOUNTED AIR DIFFUSER. REFER TO DETAIL FOR MOUNTING. REFER TO AIR DEVICE SCHEDULE
	SPIN-IN AIR TAP WITH MANUAL BALANCE DAMPER	CO CD	HVAC UNIT CONDENSATE DRAIN LINE WITH END OF LINE CLEANOUT
vd	SPIN-IN DUCT TAP WITH MANUAL BALANCE DAMPER. TAP MADE TO BOTTOM OF SUPPLY AIR TRUNK		P-TRAP FOR HVAC UNIT. VERIFY TYPE WITH DETAIL.
			PIPING DOWN
vd	SPIN-IN DUCT TAP WITH MANUAL BALANCE DAMPER. TAP MADE TO BOTTOM OF RETURN AIR TRUNK		PIPING UP -OR- PIPING UP & DOWN
			SUPPLY AIR GRILLE. REFER TO AIR DEVICE SCHEDULE
A 12"ø 500 CFM	12"ø NECK, AIR DEVICE TYPE 'A', AIR VOLUME - 500 CFM		RETURN AIR GRILLE. REFER TO AIR DEVICE SCHEDULE
vd	VOLUME AIR DAMPER		EXHAUST GRILLE. REFER TO AIR DEVICE SCHEDULE
	SUPPLY AIR DUCT UP TO HVAC UNIT. SIZE PER PLANS.	20x16	DUCT DIMENSION, CLEAR INSIDE
	RETURN AIR DUCT UP TO HVAC UNIT. SIZE PER PLANS.		NEW DUCTWORK WITH TRANSITION
	EXHAUST AIR DUCT UP TO FAN UNIT. SIZE PER PLANS.	ID	IONIZATION DETECTOR IN RETURN AND SUPPLY AIR DUCTS INTER-LOCK WITH AIR HANDLER TO SHUT DOWN UNIT UPON DETECTION OF SMOKE AND INTERLOCK WITH EMERGENCY LIGHTING
T	PROGRAMABLE THERMOSTAT		

2 MECHANICAL SYMBOLS

1 MECHANICAL SPECIFICATIONS

GENERAL

1. Furnish and install a complete and workable HVAC system per the plans and specifications. Comply with the latest edition of the Uniform Mechanical Code and the Uniform Building Code as it applies with modifications by the governing city to obtain all permits and pay all fees. Materials shall be new and undamaged. Equipment shall be UL LIST & APPROVED by the authority having jurisdiction over such equipment and shall be warranted for a period of one year from the date of finial acceptance. Guarntee HVAC compressors in air conditioning equipment for a period of five years from the date of final acceptance.
2. Coordinate work with other trades and with job site conditions before installing and/or fabricating mechanical equipment. Visit the job site prior to bid date and becoming aquatinted with existing conditions to determine the extent of mechanical work which shall be required to complete the job. No allowance and/or compensation will be made for failure to understand the scope of work required.
3. The plans attempt to show the desired locations of mechanical equipment and materials and to coordinate them with other trades; however, reasonable revisions and/or changes to the location of equipment and/or materials may be required and shall be made to avoid conflicts with other building trades and existing job site conditions at no additional cost.
4. Supply and return air ducts shall be rigid fiberglass high density duct board, fabricated and installed by SMACNA & ASHRAE Standards.
5. Mount all equipment for wind loads and mounting heights per local codes. This shall be verified with structural engineer by HVAC contractor and to be a part of mechanical contractor's bid. Wind load to be min. 90 MPH
6. Furnish and install fire dampers in supply & return air ducts penetrating the space at the rated ceiling and or wall.
7. Verify the finial locations of thermostats with the Architect and/or owner prior to installation. Mount to meet A.D.A. mounting requirements. Should conflicts exist between HVAC and Architectural documents, the Architectural documents shall govern.
8. Furnish and install the equipment as shown. Coordinate the size and location for new openings and/or penetrations required. Secure necessary rough-in data, templates, roofjacks, roof curbs, etc. required to complete the work in a timely fashion to facilitate proper installations. Cut required openings or penetrations, install the appropriate framing devices and restore the existing construction to its original condition.
9. Install full line size primary condensate drain lines from air handling unit/equipment to approved receptor. (Sail stack, or floor drain, hud drain, or floor sink). Install full size auxiliary drain pans (galvanized metal pans) below each air handing unit/equipment and route full size auxiliary drain line to discharge over the plumbing fixture as indicated on plans.
10. Furnish and install all control devices including (but not limited to thermostats, relays, interlocking devices and other necessary control items required to provide a complete and workable system. Control wiring exposed outside the building shall be installed in emt conduit.
11. Furnished and install the following materials:

A. DUCTWORK: ALL SUPPLY DUCT WORK TO BE R-8 RATED
ALL RETURN DUCT WORK TO BE R-8 RATED

1. Flexible duct shall be class 1 and U.L. #181 listed, with 2" fiberglass blanket, 0.1 perm rated polyethylene inner jacket, and 0.1 perm rated reinforced metalized film outer jacket. duct shall be flexmaster type #31 or "approved equal. secure duct to rigid collars with adjustable stainless steel clamping bands. Tape and sealed joint airtight with UL listed duct tape with acrylic based adhesive (latex based adhesive is not acceptable) per the manufacturer's recommendations. Suspend ductwork from structure above using minimum 18 GA., 1" wide galvanized sheet metal hanger straps (not to exceed 4'-0") or hangers as allowed by SMACNA standard (whichever is more stringent). Provide sheet metal saddles at hanger straps.
2. Rigid round ductwork shall be galvanized sheet metal, externally y insulated with 1 1/2# density fiberglass, fabricated and installed per SMACNA standards. Tape and seal joints airtight with UL listed duct tape with acrylic based adhesive (latex based adhesive is not acceptable) per the manufacture's recommendations. Suspend ductwork from stricture using minimum 18 GA. 1" wide galvanized sheet metal hanger straps (not to exceed 4'-0" O.C.) or with hangers allowed by SMACNA standards (whichever is more stringent) provide sheet metal saddles at hanger straps.
3. Rectangular supply and return ductwork shall be 2" fiberglass ductboard, Toughguard as manufactured by CERTAINTEED fiberglass or "approved equal". All ductwork, and the installation thereof, shall adhere to the latest edition of SMACNA requirements. DuctBoard shall UL 181 listed class 1 and shall be sealed and supported in the following manner.
   a. All longitudinal and circumferential joints must be stable with outward flaring, 1/2" (minimum) staples 2" O.C.
   b. Wipe surface where tape is to be applied with a clean cloth. (If surface has grease or oil saturate cloth with approved solvent prior to wiping).
   c. ℄ immediately after application, using a "squeegee" or similar tool.
   d. galvanized stell hanger straps and saddles, spaced not to exceed 4'-0" O.C. Duct dimensions shown on the drawings are net clear internal dimensions and allowance must be made for duct insulation.
   e. Refer to floor plan drawings for round insulated duct locations. All duct above suspended and/or gyboard (furrdown) ceiling to be duct b with owner for ALTERNATE pricing for external insulated metal duct.
4. The balance of the supply air and return duct shall be E1 475 fiberglass in accordance with SMACNA. SMACNA approved tape shall be provided for the closure systems.
5. damper with locking quadrant and handle. Note that balancing for the type "A" ceiling diffusers shall be at the spin-in fitting.

B. PIPING
1. Condensate drain lines shall be schedule 40 galvanized steel or type "L" copper pipe. Provide unistrut pipe clamps at pipe supports as required (not to exceed 6 feet O.C.). Provide dielectric separation between all dissimilar materials.

C. AIR DEVICES:
1. Air Devices: REFER TO SCHEDULE. Coordinate air device requirements with project owner.

D. INSULATION:
1. Insulate refrigerant suction piping with 1" armaflex "AP-2000" insulation. Seall all joints airtight with armstrong #520 vapor barrier adhesive and two coats of armstrong finish (each coat shall be a different color to insure 100% coverage) per the manufacturer's recomm recommendations. Provide 16 gauge galvanized sheetmetal support saddle at each hanger or support. In addition, all lines exposed outside the building shall have a 16 mil aluminum jacket, sealed watertight with GE silicon sealer.
2. Insulate condensate drain lines with 1/2" armaflex "AP-2000" insulation. Seal joints airtight with armstrong #520 vapor barrier adhesive and two coats of armstong finish as per the manufacture's recommendations. Provide 16 gauge galvanized sheet metal support saddle at each hanger or support. Only piping routed in attic.

E. MISCELLANEOUS ITEMS:
1. Fire dampers: Ruskinq type IBD2, style "B", UL labeled with 165 degree fusible link, rated for 1-1/2 hours per UL standard 555 with blades entirely out of the airstream. Install per city's local McAllen mechanical code.
2. Filters shall be provide din the air handling units. The factory filters shall be used during construction and a new set of 1" min. replaceable media. Metal filler frame filters shall be provided in the units just prior to est and balance.
3. The air handling units shall be provided with smoke detectors in accordance with applicable codes. (In supply and return air plenums)

12. Contractor shall furnish shop drawings for NEW exhaust fans, and air devices. and air handlers, and hvac condensing units, and controls.
13. HVAC contractor shall verify and coordinate with the electrical contractor HVAC unit voltage requirements and confirm it with the equipment mfr.

CONTROLS

1. ROOM THERMOSTATS SHALL BE PROVIDED FOR EACH NEW UNIT & EXISTING UNIT. THERMOSTATS SHALL BE MOUNTED TO A.D.A. HEIGHT REQUIREMENTS. WITH THE CONTROL WIRES CONCEALED IN WALL. THERMOSTATS SHALL BE PROGRAMMABLE (SELECT MODEL # TO SUITE APPLICATION) OR EQUAL AS FURNISHED BY THE A/C UNIT MANUFACTURER. PROVIDE WITH HONEYWELL LOCKING GUARD # TG586 (2) KEYS. THE KEYS SHALL BE ENGRAVED BAKELITE TAG ATTACHED, WITH "THERMOSTATS" NOTED ON THE TAG, AND BE TURNED OVER TO THE TENANT/MANAGER AT START-UP.
2. THE ROOF TOP UNITS SHALL BE PROVIDED WITH SMOKE DETECTORS IN ACCORDANCE WITH APPLICABLE CODES. (IN SUPPLY AND RETURN AIR PLENUMS)

ISSUE	DATE	DESCRIPTION
	06/29/11	PERMIT / CONSTRUCTION
1	10/13/11	PERMIT / CONSTRUCTION
2	11/16/11	CITY COMMENTS

PROJECT:

CONSTRUCTION FOR
Demeris Barbecue
1702 West Loop North
Houston, Texas 77092

ENGINEER:

THIS SEAL WAS AUTHORIZED THIS DATE 11/16/11

H.M. McLEOD, P.E.
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HOUSTON, TEXAS 77027
OFFICE: (713) 961-2699
FAX: (713) 961-5691
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DATE	6/17/11
PROJECT#	11141
SCALE	as noted
DRAWN BY	---

SHEET NAME:
MECHANICAL DETAILS

SHEET NUMBER:
M-2