

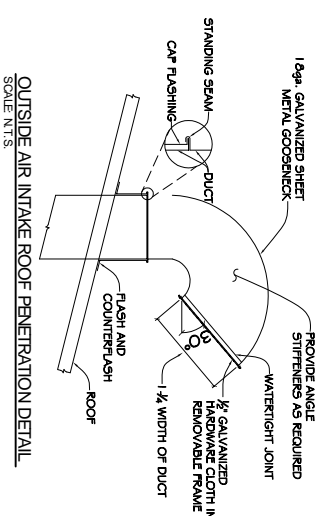
GENERAL NOTES:

1. ALL MECHANICAL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH ALL STATE AND LOCAL CODES AND THE REQUIREMENTS OF THE STATE FIRE MARSHAL.
2. ALL BIDDERS MUST VISIT THE SITE PRIOR TO SUBMITTING A BID AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS AS THEY RELATE TO THE WORK REQUIRED BY THESE DOCUMENTS. BIDDERS SHALL INCLUDE ALL COSTS ASSOCIATED WITH WORK REQUIRED BY EXISTING CONDITIONS. NO ADDITIONAL COMPENSATION SHALL BE AWARDED FOR FAILURE TO BE SO INFORMED.
3. BIDDERS SHALL INCLUDE IN THEIR BID ALL COSTS ASSOCIATED WITH PERMIT FEES, INSPECTIONS, UTILITY CONNECTIONS, METERS, JACKING AND BORING OR CUTTING AND PATCHING OF STREETS AS REQUIRED FOR BUILDING SERVICES, ETC. IT SHALL BE THE RESPONSIBILITY OF ALL BIDDERS TO CONTACT THE APPROPRIATE UTILITY COMPANIES OR CITY DEPARTMENTS AND TO FURNISH THEM WITH ALL PERTINENT INFORMATION ON REQUIRED SERVICES IN ORDER THAT PRICING FOR THESE CONNECTIONS CAN BE FURNISHED TO THE BIDDER IN SUFFICIENT TIME FOR THESE COSTS TO BE INCLUDED IN THE BID. NO ADDITIONAL COMPENSATION SHALL BE AWARDED AFTER BID TIME FOR FAILURE TO OBTAIN AND INCLUDE ALL ASSOCIATED COSTS IN THE BID.
4. CONTRACTOR SHALL COORDINATE ALL MECHANICAL WORK WITH WORK OF THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS AND EXISTING CONDITIONS SO AS TO AVOID CONFLICTS.
5. WHERE CUTTING AND PATCHING AND/OR BLOCKOUT INSTALLATION REQUIRED FOR MECHANICAL WORK IS TO BE DONE BY OTHER TRADES, THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND LAYOUT OF THE REQUIRED WORK.
6. OWNER SHALL HAVE RIGHT OF REFUSAL OF ALL DRAM MATERIALS. MATERIALS NOT CLAIMED SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY.
7. MANUFACTURERS NAMES AND MODEL NUMBERS LISTED ARE MEANT TO ESTABLISH A STANDARD. MANUFACTURERS PRODUCING EQUIPMENT OF EQUAL CAPACITY AND QUALITY SHALL BE ACCEPTABLE SUBJECT TO THE SUBMITTAL PROCESS.
8. REFER TO WRITTEN SPECIFICATIONS FOR DETAILS NOT COVERED ON THE PLANS. WHERE CONFLICT OCCURS BETWEEN PLANS AND SPECIFICATIONS, THE SPECIFICATION SHALL TAKE PRECEDENCE.

HVAC NOTES:

1. PRIOR TO FABRICATION OF ANY EQUIPMENT, DUCTWORK, ETC., CONTRACTOR SHALL REVIEW ENTIRE SET OF CONTRACT DOCUMENTS AND COORDINATE ALL CLEARANCES WITH RESPECT TO STRUCTURAL LIMITATIONS AS WELL AS REQUIRED WORK OF OTHER TRADES. ANY CONFLICTS SHALL BE RESOLVED PRIOR TO FABRICATION OF EQUIPMENT, DUCTWORK, ETC.
2. CONTRACT DOCUMENTS ARE NOT INTENDED TO BE DETAILED SHOP DRAWINGS. THEY DO NOT INDICATE IN HIS BID ALL COSTS FOR THESE OFFSETS THAT MAY BE REQUIRED TO ALLOW FOR STRUCTURAL MEMBERS, WORK OF OTHER TRADES, CROSSING OF DUCTS, ETC. NO ADDITIONAL COMPENSATION SHALL BE AWARDED FOR THIS WORK.
3. CONTRACTOR SHALL PROVIDE ALL REQUIRED PIPING CONNECTIONS TO EACH PIECE OF EQUIPMENT AS REQUIRED FOR THE PROPER OPERATION OF THE EQUIPMENT WHETHER SPECIFICALLY SHOWN OR NOT. THIS SHALL INCLUDE DRAIN PIPING, RELIEF LINES, WATER MAKE UP PIPING, ETC.
4. FLEXIBLE DUCT CONNECTIONS SHALL BE PROVIDED ON EACH FAN POWERED PIECE OF EQUIPMENT.
5. ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED IN STRICT ACCORDANCE WITH SMACNA GUIDELINES.
6. ALL NEW SUPPLY AIR DUCTS, RETURN AIR DUCTS, OUTSIDE AIR DUCTS AND RETURN SHALL BE GALVANIZED STEEL, EXTERNALLY INSULATED WITH 2" THICK 1" PCF DENSITY INSULATION WITH FOIL FACING. NEW FLEXIBLE DUCTWORK SHALL BE UL-181 LISTED, CLASS 1, PRE-INSULATED AND PROPERLY SUPPORTED. PROVIDE SPIN FITTING WITH AIR SCOOP AND DAMPER AT EACH ROUND DUCT CONNECTION TO TRUNK DUCT. HARD ROUND DUCT SHALL BE GALVANIZED SPIRAL WITH EXTERNAL INSULATION. EXHAUST DUCTWORK SHALL BE UNLINED GALVANIZED STEEL. ALL DUCTWORK SEAMS SHALL BE SEALED WITH HARD CAST MASTIC. DUCT SIZES SHOWN ON PLANS ARE SHEET METAL DIMENSIONS.
7. CEILING DIFFUSERS SHALL BE EQUAL TO TTUS MODEL TDG-A4A ADJUSTABLE ALUMINIUM, LOUVERED FACED DIFFUSER. SQUARE NECK DIFFUSER SHALL BE FURNISHED WITH SQUARE TO ROUND TRANSITION WHERE REQUIRED (REFER TO PLANS). MODULE SIZE SHALL BE 12x12" OR 24x24" AS INDICATED ON THE DRAWINGS. FURNISH WITH BORDER SUITABLE FOR CEILING. FINISH SHALL BE OFF-WHITE BAKED ENAMEL.
8. SIDE WALL SUPPLY REGISTER SHALL BE EQUAL TO TTUS MODEL 300FL EXTRUDED ALUMINIUM, DOUBLE DEFLECTION, FRONT BLADES VERTICAL. PROVIDE MODEL AG-15 OPPOSED BLADE DAMPER AT EACH GRILLE. FURNISH CHANNEL FRAME. REGISTER SHALL BE OFF-WHITE BAKED ENAMEL. MOUNTING SCREWS SHALL MATCH GRILLE COLOR.
9. CEILING RETURN GRILLE SHALL BE EQUAL TO TTUS MODEL 350FL ALUMINIUM GRILLE WITH 3.5-BLADE SETTING. SINGLE SET OF BLADES PARALLEL TO THE LONG DIMENSION. FURNISH WITH BORDER SUITABLE FOR CEILING. FINISH SHALL BE OFF-WHITE BAKED ENAMEL.
10. RERIRGRANT PIPING SHALL BE SIZED AND INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. PIPING SHALL BE INSULATED WITH 3/4" ARMAFLEX INSULATION. INSULATION SHALL BE TIGHTLY BUTTED AND ALL SEAMS SEALED WITH WATERPROOF VAPOR BARRIER ADHESIVE.
11. CONDENSATE PIPING SHALL BE TYPE 1" COPPER PIPE WITH COPPER SWEAT FITTINGS. PIPING SHALL BE INSULATED WITH 3/4" ARMAFLEX INSULATION. INSULATION SHALL BE TIGHTLY BUTTED AND ALL SEAMS SEALED WITH WATERPROOF VAPOR BARRIER ADHESIVE.
12. ALL AIR QUANTITIES SHALL BE BALANCED TO WITHIN 10% OF QUANTITIES SHOWN ON THE PLANS BY AN INDEPENDENT BALANCE CONTRACTOR.
13. PROVIDE WALL MOUNTED THERMOSTAT FOR EACH A/C SYSTEM. CONTROL THE CONDENSING UNIT OF THE COOLING CYCLE AND THE ELECTRIC HEATER ON THE HEATING CYCLE.
14. PROVIDE A FIRESTAT IN THE RETURN AIR OF ALL AIR HANDLERS UNDER 5 TONS AND A SMOKE DETECTOR IN THE SUPPLY AIR OF UNIT 5 TONS AND ABOVE. FOR EACH SMOKE DETECTOR FURNISH AND INSTALL A REMOTE ANNUNCIATOR PANEL WITH BOTH AUDIBLE AND VISUAL SIGNALS IN AN OCCUPIED AREA OF THE BUILDING.

NOTE: FRESH AIR INTAKES AND EXHAUST DUCTS MAY BE RAN TO AND TERMINATE AT SOFT IN LIEU OF PENETRATING ROOF OR BRICK VENEER.



NOT FOR CONSTRUCTION

FRESH AIR REQUIREMENTS PER IMC 2006, TABLE 403.3								
ROOM NUMBER	SQUARE FEET	CFM O.A.	A/C ZONE	TOTAL REQ. O.A.				
112	144	5	1	310 CFM				
130	80	5						
125	84	5						
121	330	20						
123	136	71						
122	80	60						
120	120	5						
119	320	96						
118	58	43						
A/C #1 - TOTAL 1315 s.f.								
100	226	34				2	307 CFM	
101	126	20						
117	124	31						
102/103	564	34						
104	100	25						
105	100	25						
106	100	25						
107	100	25						
110	130	5						
112	144	5						
113	52	3						
114	100	25						
115	100	25						
116	100	25						

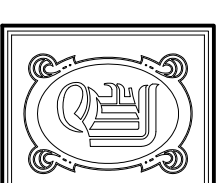
A/C UNIT SCHEDULE						
NO.	TOTAL BTU	CFM	O.A.	HEAT ELEC.	ELECTRICAL VOLTAGE	COMMENTS
1	60,000	2,000	310	15 KW	120V, 3Ø	YORK (VERIFY WITH OWNER)
2	60,000	2,000	307	15 KW	120V, 3Ø	85/15 RATIO (RAOA)
	5 TON					

1. RERIRGRANT PIPING SHALL BE SIZED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
2. AIR UNIT AND ELECTRIC HEATER SECTION SHALL INCORPORATE SINGLE POINT ELECTRICAL CONNECTION.
3. SYSTEM SHALL HAVE 2 RERIRGRANT CIRCUITS.

AIR BALANCE SCHEDULE						
OUTSIDE AIR FLOW (CFM)	AHU-1	AHU-2	EF-1			
RETURN AIR FLOW (CFM)	310	307				
SUPPLY AIR FLOW (CFM)	1690	1693				
EXHAUST AIR FLOW (CFM)	2000	2000				
BUILDING PRESSURE (CFM)			85			
QUANTITIES		+310	+307	-85		
TOTAL PRESSURIZATIONS		+310	+307	-170		
REMARKS						
RESULTING BUILDING PRESSURIZATION (CFM) = +447						

EXHAUST FAN SCHEDULE								
FAN DESIG.	TYPE	BALANCE CFM	SELECTION CFM	S.P. IN INCHES	RM	MOTOR DATA HP VOLTS PH	COOK MODEL NO.	REMARKS
EF-1	CEILING MOUNTED	340	425	0.375	1075	1/3 120 1	GC6-40	1,2,3,4,5
EF-2	CEILING MOUNTED	300	425	0.375	1075	1/3 120 1	GC6-40	1,2,3,4,5
EF-3	CEILING MOUNTED	85	170	0.375	1500	1/6 120 1	GC-160	1,2,3,4,5
EF-4	NOT USED							
EF-5	CEILING MOUNTED	85	170	0.375	1500	1/6 120 1	GC-160	1,2,3,4,5

1. FAN SHALL BE SELECTED BASED ON SELECTION CFM AND STATIC PRESSURE LISTED. FAN SHALL BE BALANCED IN FIELD TO BALANCE CFM INDICATED.
2. PROVIDE MANUAL STARTER MOUNTED ON WALL - LOCATION AS DIRECTED BY ARCHITECT.
3. PROVIDE SOLID STATE SPEED SWITCH MOUNTED ON FAN.
4. PROVIDE BACK DRAFT DAMPER AND DISCONNECT SWITCH.
5. PROVIDE ANODIZED ALUMINIUM BRICK VENT WITH FAN SIZED PER MANUFACTURERS GUIDELINES OR AS INDICATED ON PLANS.



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MECHANICAL NOTES AND DETAILS

REV:
SCALE: AS NOTED
JOB#: 2042
DATE: 10-29-09
SHEET

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