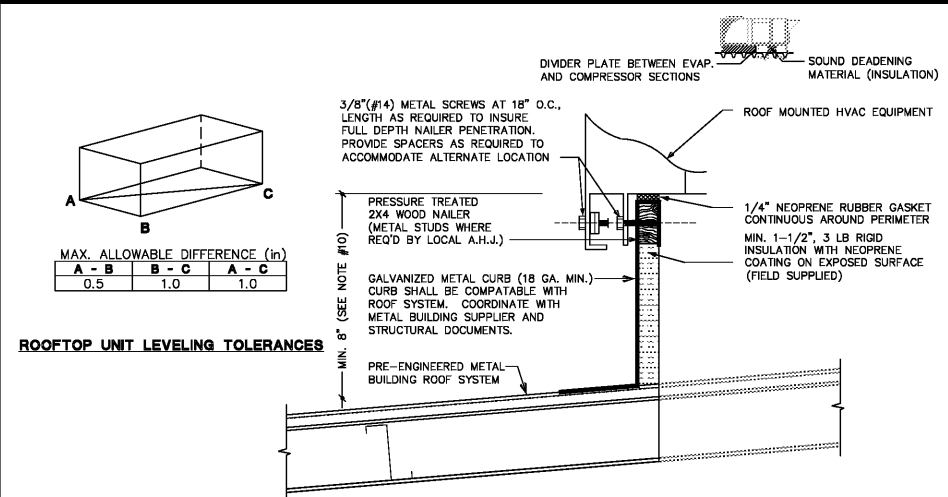


RANGE HOOD SCHEDULE						
MARK	MANUFACTURER	TOTAL EXHAUST CFM	SONES	VOLTAGE PHASE V/NO	LIGHT WATT	DUCT CONNECTION
KH-1	AIR KING ADVANTAGE SERIES - 30"	180	7.0	120V/1Ø	75W	DUCTLESS

NOTES: (FIRE SUPPRESSION SYSTEM ONLY)
 1. RANGE HOOD WIDTH - 24" FINISH SHALL MATCH COLOR OF RANGE.
 2. FIRE SUPPRESSION SYSTEM SHALL BE WET CHEMICAL TYPE POTASSIUM CARBONATE/ACETATE BASE MIXTURE. SEE SCHEDULE BELOW.



ROOFTOP UNIT LEVELING TOLERANCES			
MAX. ALLOWABLE DIFFERENCE (in)			
A - B	B - C	A - C	
0.5	1.0	1.0	

ROOFTOP UNIT INSTALLATION NOTES
 1. DUCT TRANSITION FROM RTU TO DUCT SIZE SHOWN ON MECH. FLOOR PLAN SHALL BE MADE BETWEEN RTU & TOP OF ROOF WITHIN CURB.
 2. SIZE OF OPENING IN ROOF DECK TO BE AS SMALL AS POSSIBLE, 6" MAX. LARGER THAN DUCT SIZE SHOWN. COORDINATE W/STRUCTURAL PLANS.
 3. INSTALL PER MANUFACTURER'S RECOMMENDATION AND INSTALLATION MANUAL.
 4. ALL WIRING BY ELECTRICAL CONTRACTOR.
 5. SHIM CURB AS REQUIRED TO PROVIDE HORIZONTAL INSTALLATION OF UNIT WITHIN PRESCRIBED TOLERANCES.
 6. CONTRACTOR SHALL COORDINATE LOCATION OF ROOF CURB WITH STRUCTURE PRIOR TO INSTALLATION.
 7. CURB TO BE HEAVY GAUGE GALVANIZED STEEL CONSTRUCTION AS RECOMMENDED BY MANUFACTURER, ALL FASTENERS SHALL BE CORROSION PROTECTED IF EXPOSED TO OUTDOORS.

ROOFTOP AIR CONDITIONING UNIT SCHEDULE													
MARK	TRANE MODEL	NOMINAL TONNAGE	TOTAL COOLING MBH	SENSIBLE COOLING MBH	TOTAL SUPPLY CFM	OUTSIDE AIR CFM	APPROX. ESP IN WG	CAPACITY STAGES	SEER/EER	SUPPLY FAN HP	HEAT INP/OUT MBH	VOLTAGE PHASE V/NO	MCA/MOCP AMPS
RTU-1	YSC120E	10.0	119.0	92.7	3,800	575	0.5	2	-11.3	3.75	250/200	208/3	49.6/60
RTU-2	YSC120E	10.0	119.0	92.7	3,800	575	0.5	2	-11.3	3.75	250/200	208/3	49.6/60

NOTES:
 1. APPROVED EQUAL MANUFACTURER: CARRIER, LENNOX, AAO, DAIKIN
 2. COOLING CAPACITIES BASED ON STANDARD ARI CONDITIONS
 3. DOWN FLOW UNIT. PROVIDE FULL PERIMETER ROOF CURB
 4. SIDE HORIZONTAL SUPPLY AND RETURN DUCT CONNECTIONS
 5. PROVIDE COMPRESSOR 5-YEAR WARRANTY
 6. PROVIDE PHASE MONITOR DEVICE
 7. PROVIDE SERVICE CLEARANCES PER MFGY'S RECOMMENDATIONS
 8. PROVIDE MOTORIZED OUTSIDE AIR DAMPER
 9. PROVIDE SINGLE POINT POWER ENTRY, DISCONNECT TO BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR
 10. PROVIDE INTERNAL VIBRATION ISOLATION FOR SUPPLY FAN
 11. PROVIDE FACTORY BUILT ROOF CURB 14" (OR 20" IF NECESSARY) HIGH
 12. INSTALL UNIT LEVEL WITHIN PRESCRIBED TOLERANCES
 13. PROVIDE FACTORY PROGRAMMABLE THERMOSTAT TO MATCH CAPACITY STAGES
 14. REFRIGERANT TO BE R-410A. PROVIDE REFRIGERANT CHARGE PER MANUFACTURER RECOMMENDATION
 15. PROVIDE HAIL GUARDS FOR CONDENSERS COILS
 16. PROVIDE AIR SIDE ECONOMIZER WITH DUAL ENTHALPY CONTROL AND BAROMETRIC RELIEF
 17. ROOF SLOPE COMPENSATION TO BE ACHIEVED THROUGH ROOF CURB SLOPE. DO NOT SHIM ROOF CURB
 18. PROVIDE FLOAT SWITCH TO SHUT DOWN UNIT AS PRIMARY DRAIN PAN FILLS
 19. PROVIDE DUCT SMOKE DETECTOR IN SUPPLY AIR DUCT.

AIR HANDLING UNIT SCHEDULE													
MARK	CARRIER MODEL	NOMINAL TONNAGE	TOTAL COOLING MBH	SENSIBLE COOLING MBH	TOTAL SUPPLY CFM	OUTSIDE AIR CFM	APPROX. ESP IN WG	ENTERING DB/WB °F	LEAVING DB/WB °F	SUPPLY FAN HP	HEAT INP/OUT MBH	VOLTAGE PHASE V/NO	MCA/MOCP AMPS
AHU-1	CNPH36 SMC8060	3.0	36.0	28.8	1,200	150	0.5	78/64	55.6/54.9	1/3	60/56	120/1	5.8/7.5

NOTES:
 1. APPROVED EQUAL MANUFACTURER: TRANE, LENNOX, AAO
 2. COORDINATE WITH ARCHITECT FOR FLOOR CURB (VERTICAL OR HORIZONTAL)
 3. COOLING CAPACITIES BASED ON STANDARD ARI CONDITIONS
 4. PROVIDE SINGLE POINT POWER AND ANY DUTY NICKEL-CHROMIUM ELEMENT HEATER
 5. PROVIDE 4" THROUGH ROOF, MIN. 1" STYLE FILTER(S) 300 FPM MAXIMUM VELOCITY (MAY REQUIRE MULTIPLE FILTERS IN "V" STYLE FILTER BOX.
 6. PROVIDE VIBRATION ISOLATION PADS
 7. DISCONNECT TO BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR
 8. PROVIDE REFRIGERANT LINES SIZE AS RECOMMENDED BY MANUFACTURER. FOR LONGER RUNS COORDINATE WITH MANUFACTURER PRIOR TO PURCHASE OR ANY WORK.
 9. PROVIDE A LIQUID LINE SOLENOID VALVE INSTALLED AT THE AHU IF THE INSTALLED LINEAR LENGTH OF THE REFRIGERANT LIQUID LINES EXCEEDS 75 FT. (FIELD VERIFY)
 10. PROVIDE 3" AUXILIARY DRAIN PAN WITH AUTOMATIC SHUT OFF FLOAT SWITCH OR SENSOR SWITCH IN UNIT'S DRAIN PAN SECONDARY CONNECTION, EQUAL TO "WATER GARD"
 11. PROVIDE MOTORIZED OUTSIDE AIR DAMPER INTERLOCK WITH COMPRESSOR/HEATER
 12. PROVIDE FLOAT SWITCH TO SHUT DOWN UNIT AS PRIMARY DRAIN PAN FILLS

CONDENSING UNIT SCHEDULE													
MARK	CARRIER MODEL	NOMINAL TONNAGE	TOTAL COOLING MBH	CAPACITY STAGES	SEER	NUMBER OF FANS	FAN FLA (EACH) AMPS	NUMBER OF COMPRESSORS	COMP. RLA (EACH) AMPS	VOLTAGE PHASE V/NO	MCA/MOCP AMPS	WEIGHT LBS	DIMENSION IN
CU-1	24ABB3-36	3.0	36.0	1	13.0	1	1.4	1	10.5	208/1	14.5/20	141	28x26x35

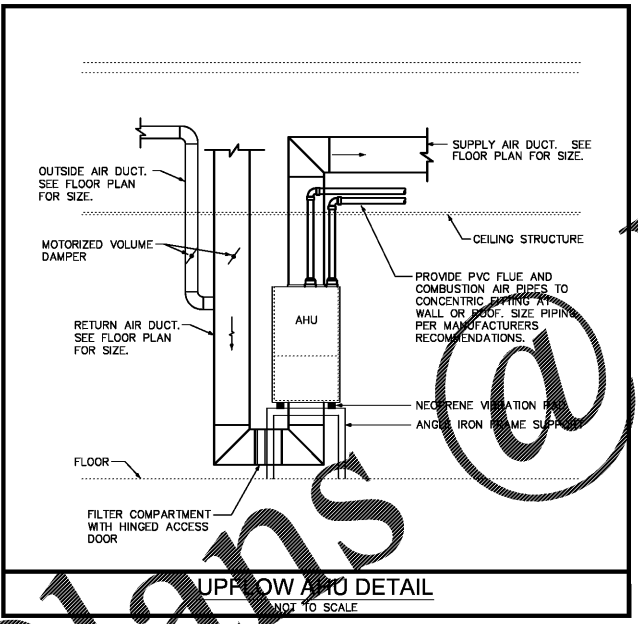
NOTES:
 1. APPROVED EQUAL MANUFACTURER: TRANE, LENNOX, AAO
 2. COOLING CAPACITIES BASED ON STANDARD ARI CONDITIONS
 3. PROVIDE WITH THERMAL EXPANSION VALVES, LIQUID LINE FILTER DRYER AND MULTI-USE SERVICE VALVES WITH LOCKING-TYPE TEMPER-RESISTANT CAPS.
 4. PROVIDE COMPRESSOR WITH CRANKCASE HEATER AND MIN. 5-YEAR WARRANTY
 5. REFRIGERANT TO BE R-410A. PROVIDE REFRIGERANT CHARGE PER MANUFACTURER RECOMMENDATION
 6. DISCONNECT TO BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR
 7. PROVIDE HIGH AND LOW PRESSURE CONTROL AND OVER TEMPERATURE PROTECTION
 8. PROVIDE WEATHERPROOF ELECTRIC CONTROLS AND SINGLE SIDE SERVICE ACCESS
 9. PROVIDE LOW NOISE OPTION
 10. PROVIDE 1/4" THICK NEOPRENE WAFFLE-PAD UNDER ALL SUPPORT POINTS
 11. PROVIDE HAIL GUARDS FOR CONDENSERS COILS

EXHAUST FAN SCHEDULE													
MARK	GREENHECK MODEL	SERVICE AREA	CONFIGUR.	TOTAL EXHAUST CFM	APPROX. ESP IN WG	SONES	SUPPLY FAN HP	RPM	DRIVE	VOLTAGE PHASE V/NO	WEIGHT LBS	DIMENSION IN	OPENING IN CONTROL
EF-1	SP-A110	PANTRY	CEILING	75	0.25	1.1	49W	950	DIRECT	120/1	17	11x4x9	N/A
EF-2	SP-A110	STORAGE	CEILING	75	0.25	1.1	49W	950	DIRECT	120/1	17	11x4x9	N/A

GENERAL FAN NOTES:
 a. MOTOR STARTERS, DISCONNECTS (IF NOT FACTORY PROVIDED) AND ALL EQUIPMENT NORMAL POWER WIRING BY ELEC. CONTRACTOR.
 b. COORDINATE WITH ELECTRICAL CONTRACTOR BEFORE BIDDING OR ORDERING ANY EQUIPMENT INCLUDING CONTROLS AND EQUIPMENT INTERLOCKS.

OUTSIDE AIR CALCULATIONS							
AREA SERVED OR UNIT TAG	NET OCCUPABLE AREA SQ.FT.	MAX. OCCUPANCY P/1000 SQ.FT.	TOTAL NO. OF PEOPLE	VENTILATION RATE CFM/P	TOTAL CFM REQUIRED	TOTAL CFM O/A PROVIDED	NOTES
SANCTUARY	1440	120	173	5	.06	952	-
SANCTUARY AISLES	2905	-	-	-	.06	175	-
STORAGE	45	-	-	-	.12	6	-
A/V ROOM	195	-	-	-	.06	12	-
RTU-1,2	-	-	-	SUM =	1145	1150	-
DECISION ROOM	200	50	10	5	.06	82	-
STORAGE	640	-	-	-	.12	77	-
KITCHEN	310	25	8	5	.06	59	-
AHU-1	-	-	-	-	SUM =	198	200

NOTES:
 1. CALCULATIONS ARE BASED ON ESTIMATED MAX. OCCUPANCY RATES PER ARCHITECTURAL PLANS AND ASHRAE 62.1-2004. VENTILATION RATES PER ASHRAE 62.1-2004 & IMC, 2008 EDITION, TABLE 403.3
 2. ADDITIONAL O/A PROVIDED FOR PRESSURIZATION PURPOSES
 3. FOR OFFICE AND OTHER SIMILAR AREAS CALCULATIONS ARE BASED ON CONTINUOUS OCCUPANCY



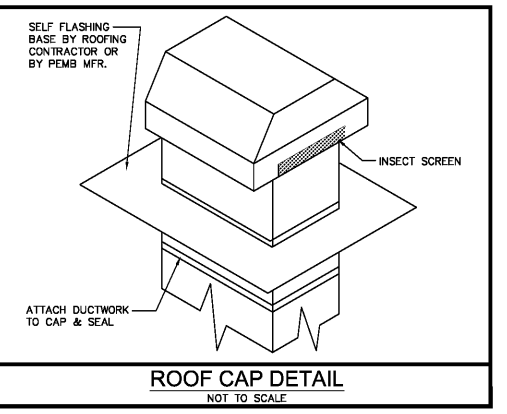
AIR BALANCE SCHEDULE					
AREA SERVED	EQUIPMENT TAG	SUPPLY AIR (CFM)	RETURN AIR (CFM)	OUTSIDE AIR (CFM)	MAKEUP AIR (CFM)
SANCTUARY	RTU-1,2	1150	-	1150	-
KITCHEN/STORAGE	AHU-1	1200	-	200	-

NOTES:
 1. A/C BUILDING IS (250 CFM + 2000 CFM) - 25 CFM + 95 CFM POSITIVE WHEN FANS ARE OPERATING

AIR DISTRIBUTION SCHEDULE							
MARK	SIZE	FACE SIZE	NECK SIZE	MATERIAL	FRAME	FINISH	NOISE CRITERIA
AA	TMS9	24x24	-	STEEL	LAY-IN	WHITE	30
BB	300RS	32x8	30x6	STEEL	SIDEWALL	SEE NOTE 2	30
CC	300RS	8x8	6x6	STEEL	SIDEWALL	SEE NOTE 2	30
DD	T-700L	12x6	-	STEEL	SIDEWALL	SEE NOTE 2	40
EE	T-700L	18x18	-	STEEL	SIDEWALL	SEE NOTE 2	40
FF	EGG CRATE	24x24	-	PLASTIC	LAY-IN	WHITE	30
GG	350RL	44x22	42x20	STEEL	SIDEWALL	SEE NOTE 2	30
HH	350RL	8x8	6x6	STEEL	SIDEWALL	SEE NOTE 2	40
II	350RL	20x12	18x10	STEEL	SIDEWALL	SEE NOTE 2	40

SUPPLY AIR DIFFUSER OR REGISTER TAG CFM RETURN/TRANSFER OR EXHAUST AIR GRILLE TAG CFM

NOTES:
 1. APPROVED EQUAL MANUFACTURER: PRICE, CARNES, METALAIR, NAILOR
 2. FINAL COLOR SELECTION SUBJECT TO ARCHITECT APPROVAL
 3. CONTRACTOR TO COORDINATE FINAL SELECTION WITH ARCHITECT AND OWNER. VERIFY CEILING SYSTEM FOR EXACT BORDER TYPE. I.E. STANDARD GRID OR NARROW GRID.
 4. SQUARE LOUVER FACE CEILING SUPPLY DIFFUSER
 5. DOUBLE DEFLECTION SIDEWALL SUPPLY GRILLE
 6. SIDEWALL RETURN GRILLE
 7. SIGHT-PROOF, DOUBLE FLANGED TELESCOPIC DOOR GRILLE
 8. LINEAR CEILING DIFFUSER WITH ADJUSTABLE DEFLECTION VANES BEHIND EACH SLOT
 9. PROVIDE SPIN-IN COLLAR WITH VOLUME DAMPER AT TRUNK TO FLEX DUCT CONNECTION
 10. PROVIDE TYPICAL 4-WAY DIFFUSION, 2-WAY, 3-WAY OR VERTICAL ONLY WHERE INDICATED ON PLANS.
 11. PROVIDE STEEL RADIAL OPPOSED BLADE VOLUME DAMPER
 12. PROVIDE VOLUME CONTROL DAMPERS FOR ALL RETURN GRILLES OR REGISTERS FOR BALANCED AIRFLOW. NOT REQUIRED IN TRANSFER.
 13. FLEX DUCT SIZE TO BE SAME AS DIFFUSER NECK SIZE.
 14. ROUND NECK OR PROVIDE SQUARE-TO-ROUND ADAPTER
 15. FRONT BLADES PARALLEL TO SHORT DIMENSION
 16. BLADES PARALLEL TO LONG (HORIZONTAL) DIMENSION, FIXED AT 35°
 17. HORIZONTAL BLADES SET AT 22° ANGLE
 18. MATCH RADIUS OF ROUND DUCT TO RADIUS OF AIR DEVICE.



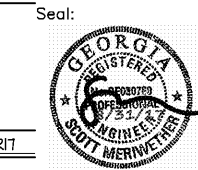
ELECTRIC HEATER SCHEDULE									
MARK	MODEL	MOUNT	ELECTRIC HEAT KW	SUPPLY CFM	DUCT SIZE IN	VOLTAGE PHASE V/NO	MCA/MOCP AMPS	WEIGHT LBS	DIMENSION IN
H-1	MARNEL F3422T	WALL	2.0	100	N/A	208/1	9.6/15	6	-

NOTES:
 1. HEAVY DUTY FAN FORCED ELECTRIC WALL HEATER
 2. DISCONNECT TO BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR
 3. PROVIDE BUILT IN THERMOSTAT

Order Plans

Project Title:
 ADDITION TO CANVAS CHURCH
 3560 BROWN'S BRIDGE ROAD
 CUMMING, GA 30028

Drawing Title:
 MECHANICAL SCHEDULES



Not Released for Construction Date: 03APR17

Revisions	REVISION/COMMENTS
8-31-17	

These drawings are instruments of the Architect's service for use solely with respect to this project. These drawings shall not be used by the Owner or others on other projects, additions to this project or completion of this project by others except by written agreement.

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