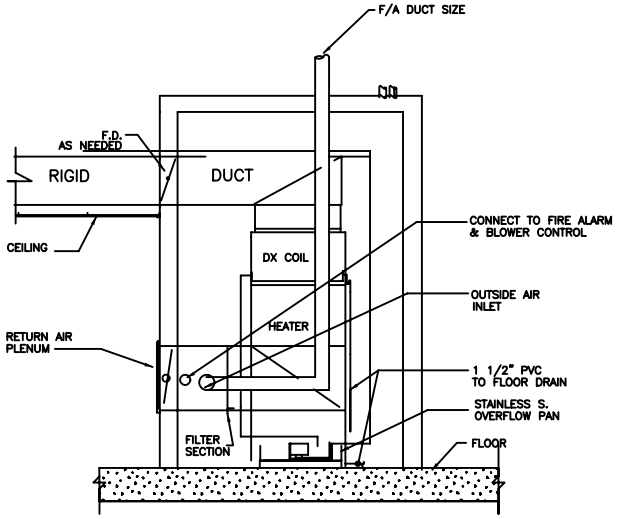

TYPICAL AIR CONDITIONING UNIT

A/C UNIT SCHEDULE

NO.	TOTAL BTU	CFM	O.A.	HEAT * (KW)	ELECTRICAL VOLTAGE	ELECTRICAL MCA	ELECTRICAL CKT BKR	COMMENTS
1	60,000	2,000	300	75	208V, 3Ø	17	–	
2	60,000	2,000	300	75	208V, 3Ø	17	–	
3	60,000	2,000	300	100	208V, 3Ø	26.5	–	
4	60,000	2,000	300	100	208V, 3Ø	26.5	–	
5	120,000	4,000	800	125	208V, 3Ø	53.1	–	
6	120,000	4,000	800	125	208V, 3Ø	53.1	–	
7	36,000	1,200	300	75	208V, 3Ø	17	–	
8	96,000	3,200	300	75	208V, 3Ø	26.2	–	
9	48,000	1,600	300	75	208V, 3Ø	17	–	
10	12,000	400	300	6	208V, 3Ø	17	–	

* USE 3 STAGE HEAT

EXHAUST FAN SCHEDULE

LOC.	CFM	VOLTAGE	TYPE	MANF.
TLTS	100	120	VENT	BROAN

AIR BALANCE SCHEDULE	AHU #1, #2	AHU #3	AHU #4	AHU #5, #6	AHU #7	AHU #8	AHU #9	AHU #10	75 CFM	150 CFM	300 CFM	375 CFM
OUTSIDE AIR FLOW (CFM)(+)	860	340	360	4598	0	180	180	25				
RETURN AIR FLOW (CFM)	280	1320	1280	-998	800	2840	1240	350				
SUPPLY AIR FLOW (CFM)	1140	1660	1640	3600	800	3020	1420	375				
EXHAUST AIR FLOW (CFM)(-)	0	0	0	0	0	0	0	0	-75	-150	-300	-375
BUILDING PRESSURE (CFM)	860	340	360	4598	0	180	180	25				
QUANTITIES	2	1	1	2	1	1	1	1				
TOTAL PRESSURIZATIONS	1720	340	360	9196	0	180	180	25	-75	-150	-300	-375
RESULTING BUILDING PRESSURIZATION (CFM)	8101											

* AHU= AIR HANDLING UNIT

HVAC NOTES

1. CONCEALED DUCTWORK TO BE UL–181, CLASS I, FIBERGLASS DUCTBOARD. DUCTS SHALL BE SIZED TO LIMIT MAIN DUCTS TO 1000 CFM & SECONDARY DUCTS TO 600 CFM. TO BE INSTALLED PER SMACNA STANDARDS.
2. EXPOSED DUCTWORK TO BE GALVANIZED SHEET METAL PER SMACA STANDARDS. LINE WITH NEOPRENE COATED 1.0", 1.5 POUNDS PER CUBIC FOOT DUCT INSULATION.
3. ROUND FLEXIBLE DUCT TO BE UL–181, CLASS I, AIR DUCT MATERIALS.
4. DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS.
5. PROVIDE U.L. LISTED 125 F FIRESTAT IN RETURN AIR OF EACH SYSTEM UNDER 2000 CFM TO SHUT DOWN FAN IN THE EVENT OF FIRE.
6. PROVIDE U.L. RATED FIRE DAMPERS WHERE REQUIRED AT ALL DUCT PENETRATIONS OF FIRE–RATED ASSEMBLIES AND WHERE REQUIRED BY CODE, INCLUDING OUTSIDE AIR INTAKES.
7. CONDENSATE DRAINS TO BE PVC PIPE RUN TO PLUMBERS P–TRAP WITHIN FIVE FEET OF AIR HANDLING UNITS.
8. ALL AIR HANDLING SYSTEMS TO BE BALANCED TO ASSURE PROPER AIR FLOWS PER PLANS.
9. DRYER DISCHARGE GRILL PER MFG'S REQUIREMENTS BACK DRAFT DAMPER MUST BE WEATHER AND INSECT PROOF.
10. EXHAUST FAN EQUAL TO BROAN MODEL NO. 100 CF. OR EQUAL. FAN SHALL BE CONTROLLED BY SWITCH ON WALL AT LIGHT SWITCH. PROVIDE BACK DRAFT DAMPER.
11. PROVIDE AND INSTALL WATER PROOF GRILLE VENT ON ROOF FOR TOILET EXHAUST.
12. ALL SUPPLY AIR VENTS SHALL BE EQUIPPED WITH AIR CONTROL DAMPERS.
13. LOCATION OF OUTDOOR UNITS SHALL BE AS SHOWN ON PLAN. MECHANICAL CONTRACTOR SHALL PROVIDE A 4" CONCRETE REINFORCED PAD FOR EACH CONDENSING UNIT.
14. REFRIGERANT LINES SHALL BE SIZED BY UNIT MANUFACTURER AND INSTALLED ACCORDING TO MANUFACTURES INSTRUCTIONS.
15. ALL ELECTRICAL, MECHANICAL & PLUMBING PENTRATING FIRE WALLS SHALL BE FIRE CAULKED. (PENETRATIONS THROUGH RATED CONSTRUCTION SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN TESTED IN ACCORDANCE WITH ASTM–E814.)
16. DRYER EXHAUST SHALL NOT EXCEED 25 FEET IN LENGTH.
17. THIS DRAWING SHOWN FOR ILLUSTRATION PURPOSES ONLY AND EQUIPMENT SHALL BE INSTALLED TO MEET FIELD REQUIREMENTS.

ALL UNITS
COMBINED RATING EER 7.85; SEER/8. 70; SOUND RATING 8.0 DECIBELS

REFR. LO & HI PRESS SW., REFR. DRYER;
EXTERNAL SERVICE VALVES, SIGHT GLASS

INLINE EXHAUST FANS FOR ASSY. AREA–1500 CFM EACH.
CONNECT TO RUN WHEN A/C UNITS ARE IN COOLING MODE.

NOTE: SIZE DUCT WORK FOR:
MAIN DUCT–900 FT./MIN.
BRANCHES–600 FT./MIN.

REVISED: 08–18–05

MECHANICAL NOTES

STARLIGHT BAPTIST CHURCH
2100 SECOND STREET
SLIDELL, LOUISIANA

NEW SANCTUARY

DAMMON ENGINEERING, INC.
1095 FLORIDA AVENUE 985-649-5532 SLIDELL, LA. 70458
DAMMONENGINEERING.COM

SCALE:AS NOTED
FILE:
JOB NO. 1495a
DATE:05–16–05
SHEET
M–2
OF