AIR HANDLER														HEAT PUMP					
TAG	TRANE MODEL NO.	NOMINAL TONS	TOTAL CFM	OA CFM	COOLING		Motor HP	ESP (" WC)	HEAT	POWER			TAG	TRANE MODEL NO.	POWER			REMARKS
					TMBH	SMBH			KW	VAC	PH	MCA			VAC	PH	MCA	
AHU-A	TWE09043A	7.5	2750	690	88.7	55.4	1-1/2	0.4	9.96	230	3	37	CU-A	TWA09043A	230	3	34	1, 2, 3, 4
AHU-B	TEM6A0B30	2.5	1010	130	30.5	23.6	1/3	0.4	3.84	230	1	24	CU-B	4TWR40301	230	1	15	1, 2, 3, 4

NOTES:
1 Provide inlet filter box, single point power connection, expansion valve, crankcase heat, time delay relay, condensate overflow switch & programmable 7/24 thermostat with lockable cover.
2 Cooling capacities to be rated in accordance with AHRI standard 210/290 for ASHRAE standard design weather conditions in New Orleans, LA.
3 Install units in accordance with manufacturer's recommendations.
4 Provide new filters after commissioning and final acceptance.

DIFFUSER SCHEDULE

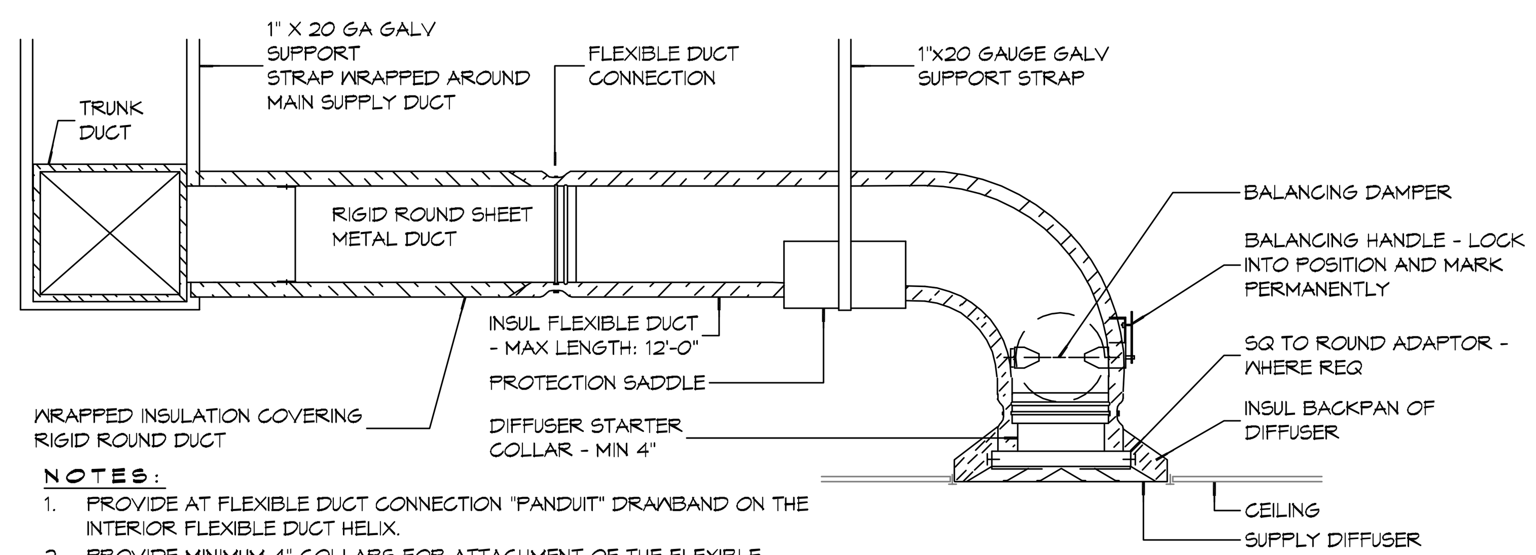
TAG	SERVICE	NECK SIZE	DESCRIPTION
A	Supply Air	Ref. Plan	24"x 24" fixed pattern plaque, Titus "OMNI" w/ damper
B	Supply Air	Ref. Plan	12"x 12" fixed pattern plaque, Titus "OMNI" w/ damper
C	Return Air	Ref. Plan	24" X 24" perforated return, Titus"PAR" w/ damper
D	Return Air	Ref. Plan	12" X 12" perforated return, Titus"PAR" w/ damper

1. Coordinate with architect for color and finish

Exhaust Fan Schedule

Tag	Service	Fan				Power			Make / Model	Remarks
		Airflow (CFM)	TSP (" wc)	Watts	AMPS	Volts	Phase	Hz		
EF-1	Restroom Exhaust	60	0.1	N/A	1	120	1	60	Broan 673	1
EF-2	Restroom Exhaust	80	0.1	43	N/A	120	1	60	Broan A80	1

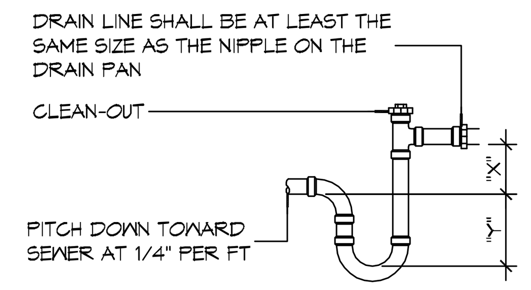
1. Provide dedicated wall switch



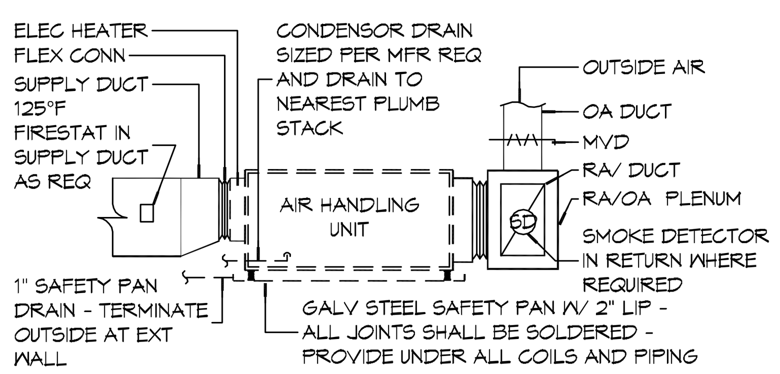
NOTES:
1. PROVIDE AT FLEXIBLE DUCT CONNECTION "PANDUIT" DRAWBAND ON THE INTERIOR FLEXIBLE DUCT HELIX.
2. PROVIDE MINIMUM 4" COLLARS FOR ATTACHMENT OF THE FLEXIBLE DUCT TO ROUND DUCT, DAMPERS AND DIFFUSERS.
3. BAND RIGID ROUND DUCT INSULATION TO DUCT AND PROVIDE TAPE FOR INSULATION OVERLAP.

20 DETAIL
SCALE: NTS — TYPICAL NON-RATED SUPPLY AIR REGISTER

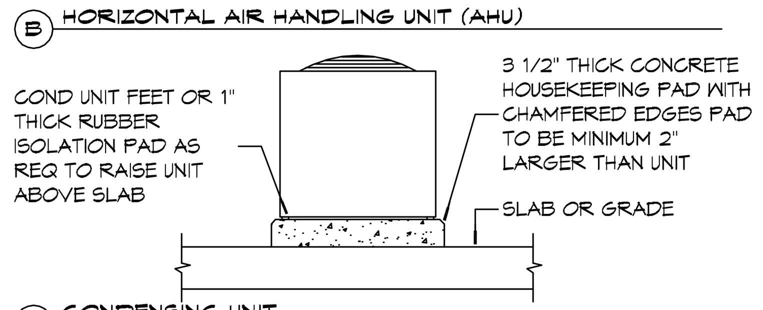
NOTES:
1. LENGTHS "X" AND "Y" SHALL BE DETERMINED BY AHU BASED ON TOTAL STATIC PRESSURE.
2. "X" AND "Y" SHALL BE EQUAL TO MINIMUM 1/2 TOTAL UNIT STATIC PRESSURE.
3. ALL CONDENSATE PIPING SHALL BE SLOPED AT 1/4" PER FOOT



19 DETAIL
SCALE: NTS — CONDENSATE TRAP



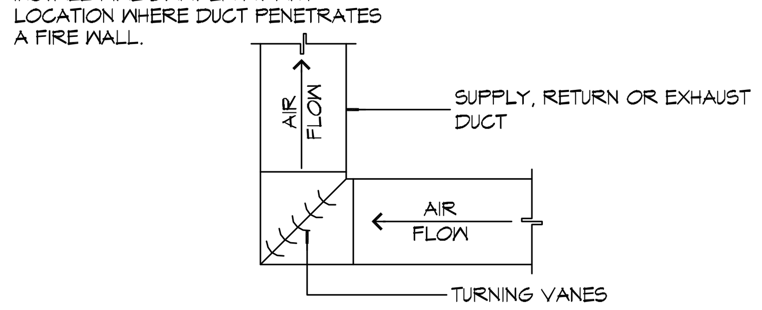
B HORIZONTAL AIR HANDLING UNIT (AHU)



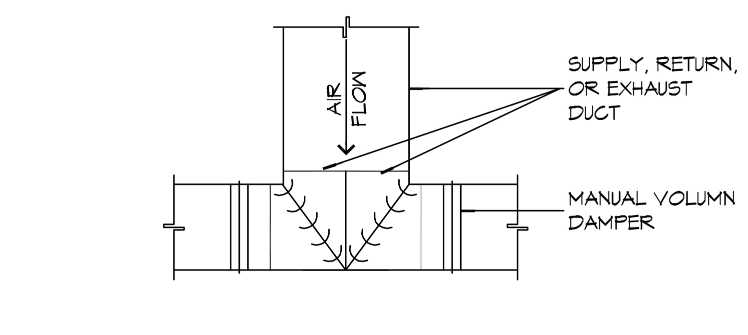
A CONDENSING UNIT

18 DETAILS
SCALE: NTS — A/C EQUIPMENT

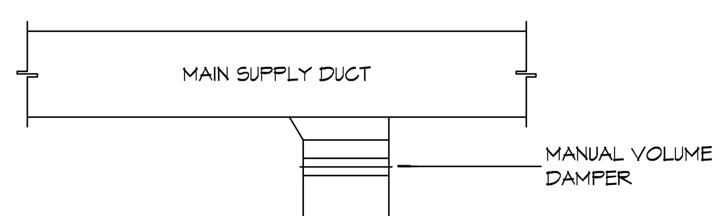
NOTE:
INSTALL FIRE DAMPER AT ANY LOCATION WHERE DUCT PENETRATES A FIRE WALL.



C SQUARE ELBOW

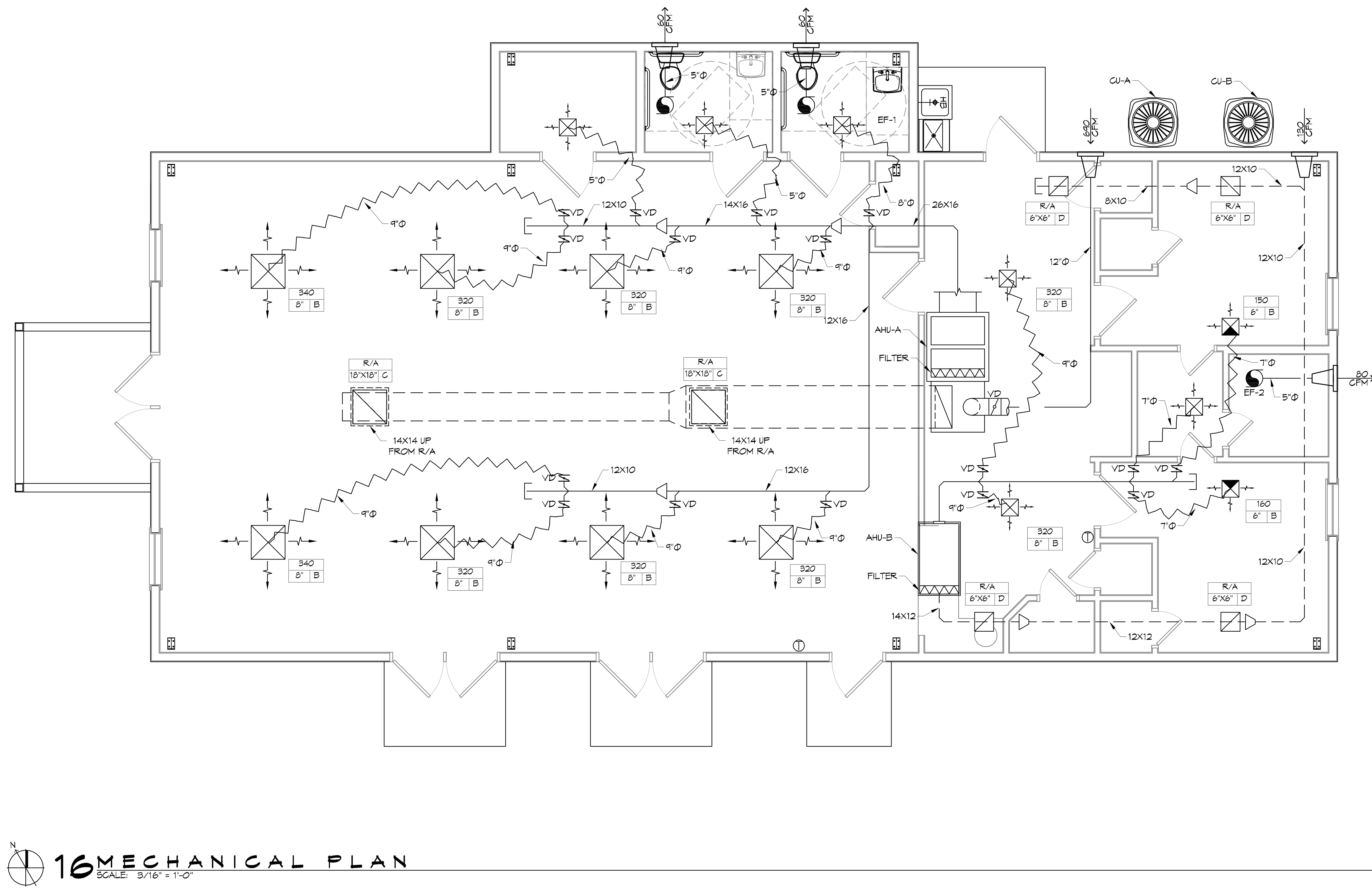


B DUCT SPLITTER



A SUPPLY DUCT TAKE-OFF

17 DETAILS
SCALE: NTS — TYPICAL DUCT CONNECTIONS

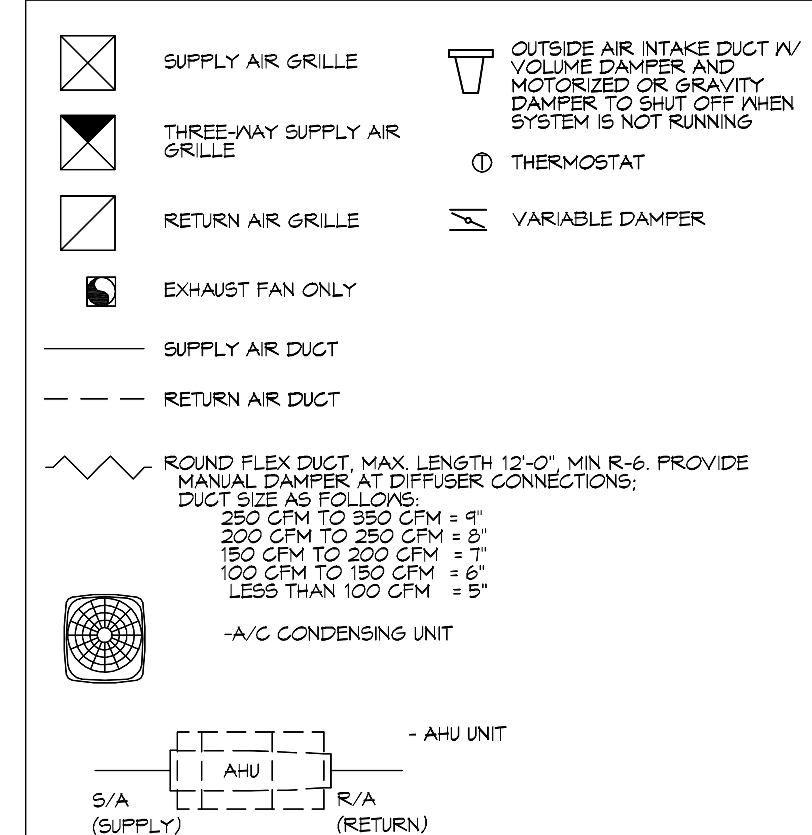


16 MECHANICAL PLAN
SCALE: 3/16" = 1'-0"

GENERAL HVAC NOTES

1. CONCEALED DUCTWORK TO BE GALVANIZED SHEET METAL LINED WITH FIBROUS GLASS DUCT LINER, MIN R-6. INSTALLED PER SMACNA STANDARDS.
2. EXPOSED DUCTWORK TO BE GALVANIZED SHEET METAL LINED WITH FIBROUS GLASS DUCT LINER, MIN R-6. INSTALLED PER SMACNA STANDARDS.
3. ROUND FLEXIBLE DUCT TO BE UL-181, CLASS 1, AIR DUCT MATERIALS.
4. DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS.
5. IN ALL SYSTEMS OVER 2000 CFM AND LESS THAN 15,000 CFM, SMOKE DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 72E IN THE RETURN DUCT DOWNSTREAM OF THE AIR HANDLING UNIT AND ALL FILTERS TO AUTOMATICALLY STOP THE FAN.
6. PROVIDE UL LISTED 125 'F' FIRESTAT IN RETURN AIR OF EACH SYSTEM UNDER 2000 CFM TO SHUT DOWN THE FAN IN THE EVENT OF FIRE.
7. PROVIDE UL RATED FIRE DAMPERS WHERE REQUIRED AT ALL DUCT PENETRATIONS OF FIRE-RATED ASSEMBLIES AND WHERE REQUIRED BY CODE, INCLUDING OUTSIDE AIR INTAKES AND EXHAUST FANS.
8. CONDENSATE DRAINS TO BE PVC PIPE RUN TO PLUMBERS P-TRAP WITHIN FIVE FEET OF AIR HANDLING UNITS.
9. ALL AIR HANDLING SYSTEMS TO BE BALANCED TO ASSURE PROPER AIR FLOWS PER PLANS.
10. ALL THERMOSTATS TO BE AUTOMATIC CHANGEOVER WITH HEAT SWITCH.
11. EXHAUST FAN SHALL BE CONTROLLED BY A SWITCH ON THE WALL IN THE SAME LOCATION AS LIGHT SWITCH(S). PROVIDE BACK DRAFT DAMPER.
12. PROVIDE AND INSTALL WATER PROOF GRILLE VENT IN PROPER ROOF LOCATION FOR PLUMBING FIXTURE EXHAUST.
13. ALL SUPPLY AIR VENTS SHALL BE EQUIPPED WITH AIR CONTROL DAMPERS AT THE REGISTER.
14. LOCATE OUTDOOR UNITS AS SHOWN ON ARCHITECTURAL DRAWINGS.
15. REFRIGERANT LINES SHALL BE SIZED BY UNIT MANUFACTURER AND INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
16. FRESH AIR SHALL BE SUPPLIED TO EACH AIR HANDLER THROUGH EXTERIOR WALL DUCT SUPPLIED WITH A CONTROL DAMPER.
17. ALL ELECTRICAL, MECHANICAL, AND PLUMBING PENETRATING 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-E8-14).
18. ALL MECHANICAL SYMBOLS ARE DRAWN DIAGRAMMATICALLY, CONTRACTOR TO VERIFY WITH OWNER LOCATIONS OF VENTS, DAMPERS, REGISTERS, ETC.
19. FLEXIBLE DUCTWORK LENGTH NOT TO EXCEED 12'-0".
20. REFER TO REFLECTED CEILING PLAN FOR FINAL GRILLE AND DIFFUSER LOCATIONS AND COORDINATE AS REQUIRED.
21. FINAL LOCATION OF TEMPERATURE CONTROLS TO BE COORDINATED WITH OWNER AT JOB SITE.
22. PROVIDE AND INSTALL SMOKE DETECTORS AS APPROVED BY LOCAL AHJ'S. PLACE NEAR R/A AND S/A OPENINGS OF AHU AND PROVIDE, WITH ACCESS PANEL, WIRING BY ELECTRICAL CONTRACTOR.
23. FRESH AIR INTAKES ARE REQUIRED TO HAVE MOTORIZED OR GRAVITY DAMPERS TO SHUT OFF WHEN SYSTEM IS NOT RUNNING.
24. PROVIDE BIRD SCREENS AT ALL EXTERIOR MECHANICAL PENETRATIONS.
25. COORDINATE WALL MOUNTED THERMOSTAT LOCATIONS WITH ALL OWNER FURNISHED ITEMS EITHER WALL MOUNTED OR FLOOR MOUNTED AGAINST PARTITIONS. REFER TO ARCHITECTURAL DRAWINGS.
26. SEE ROOF PLAN FOR ALL ROOF PENETRATIONS.
27. PROVIDE MIN 18 GA GALVANIZED SHEET METAL TO BLANK-OFF GABLE VENTS WHERE INTAKE/EXHAUST DUCTS OCCUR.

LEGEND



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REVISIONS

#	DESCRIPTION	DATE

SEAL:

MULTI PURPOSE BUILDING
OUR LADY OF FATIMA
66110 VORTISCH ROAD
LACOMBE, LOUISIANA 70445

JOB No:	2370	DATE:	06-17-2020
DRAWN BY:	RLD	CHECKED BY:	CKD

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SHEET TITLE:
MECHANICAL FLOOR PLAN, DETAILS, AND SCHEDULES

DRAWING NUMBER:
M101

SHEET No: 9 of 10