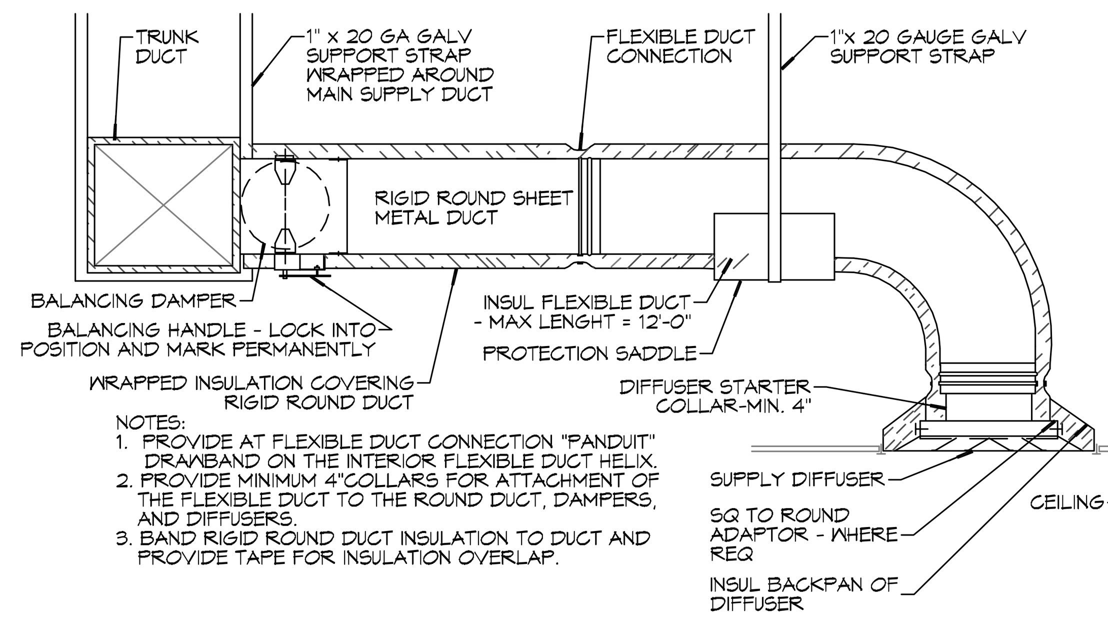
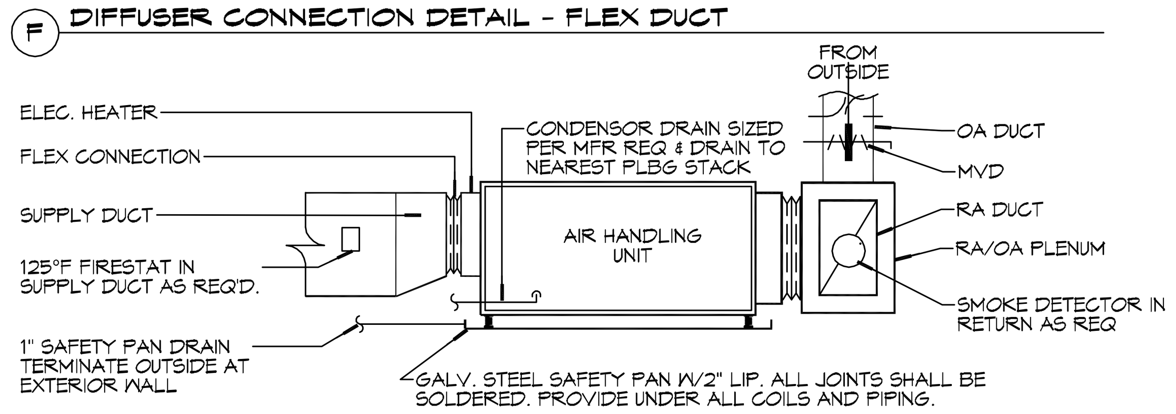
FILE NAME: J:\- RESTAURANT\2321 - Old Town Pizza Company\Drawings\Current Drawings\M101 - Mechanical plan.dwg PLOT DATE & TIME: Thursday, November 30, 2017 8:29:02 AM

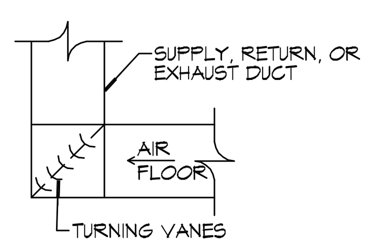


NOTES:
1. PROVIDE AT FLEXIBLE DUCT CONNECTION "PANDUIT" DRAWBAND ON THE INTERIOR FLEXIBLE DUCT HELIX.
2. PROVIDE MINIMUM 4"COLLARS FOR ATTACHMENT OF THE FLEXIBLE DUCT TO THE ROUND DUCT, DAMPERS, AND DIFFUSERS.
3. BAND RIGID ROUND DUCT INSULATION TO DUCT AND PROVIDE TAPE FOR INSULATION OVERLAP.

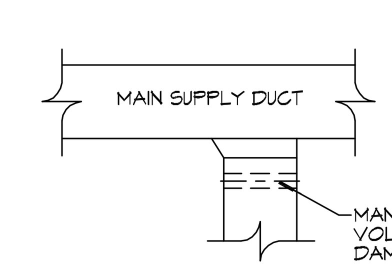
F DIFFUSER CONNECTION DETAIL - FLEX DUCT



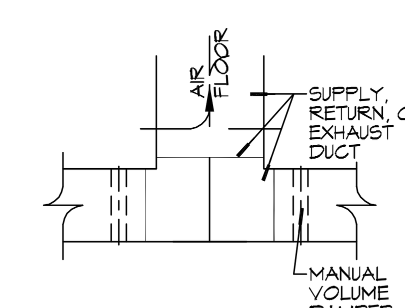
E TYPICAL HORIZONTAL AHU DETAIL



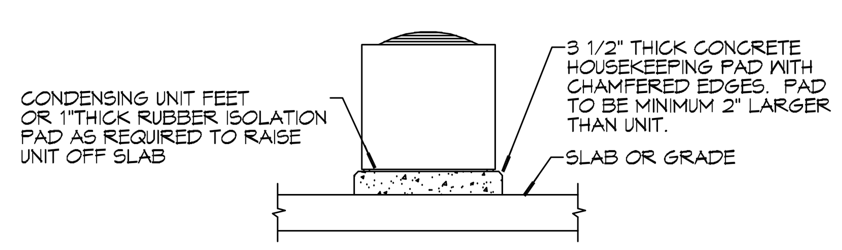
D SQUARE ELBOW DETAIL



C SUPPLY DUCT TAKE-OFF DETAIL

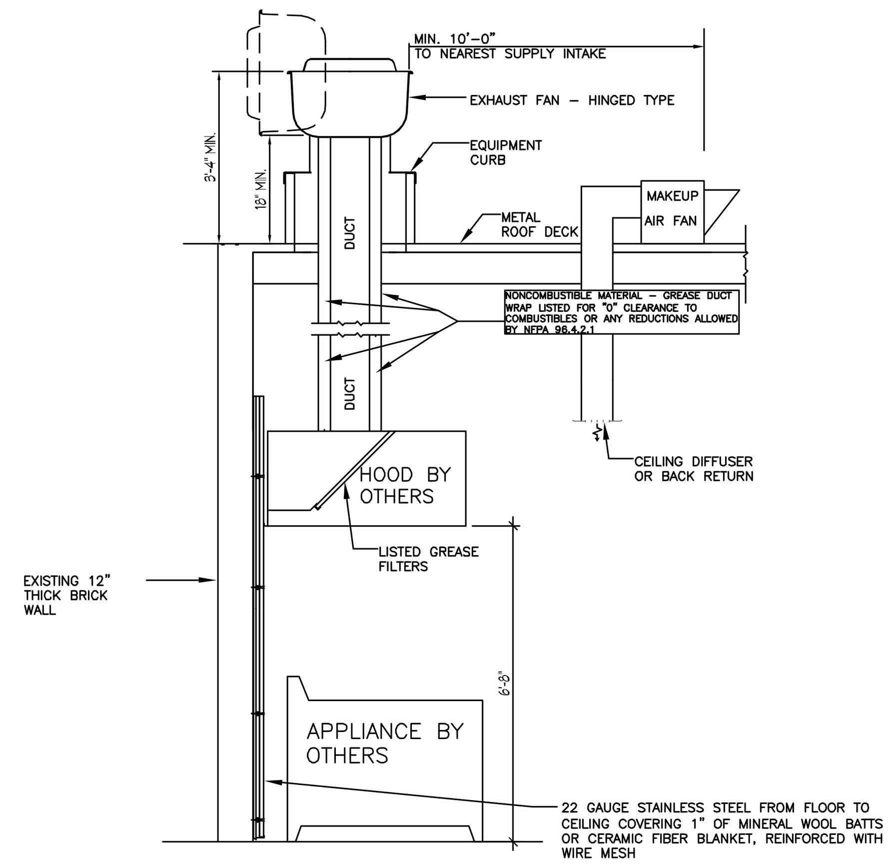


B DUCT SPLITTER DET



A CONDENSING UNIT MOUNT

2 DETAILS
SCALE: NTS



TYPICAL HOOD & DUCT INSTALLATION W/CLEARANCE REDUCTION MATERIALS TO PROTECT COMBUSTIBLES
N.T.S

A/C UNIT SCHEDULE

TOTAL BTU	ELECTRICAL			COMMENTS
	VOLTAGE	MCA	CKT BRKRS	
120,000 BTU (10 TON) AHU #1	240V,3Φ	-	P1-,-,-	NOTE: ALL A/C TO BE SPLIT-SYSTEM HVAC (TRANE OR EQUAL)
150,000 BTU (12.5 TON) AHU #2	240V,3Φ	-	P1-,-,-	

AHU UNIT SCHEDULE

TOTAL BTU	CFM	O.A.	HEAT (KW)	ELECTRICAL			COMMENTS
				VOLTAGE	MCA	CKT BRKRS	
90,000 BTU (7.5 TON) AHU #1	3,800	450	12	240V,3Φ	-	P1-,-,-	NOTE: ALL A/C TO BE SPLIT-SYSTEM HVAC (TRANE OR EQUAL) ALL AHU TO BE SINGLE POINT CONNECTION
150,000 BTU (12.5 TON) AHU #2	4,500	1500	21	240V,3Φ	-	P1-,-,-	

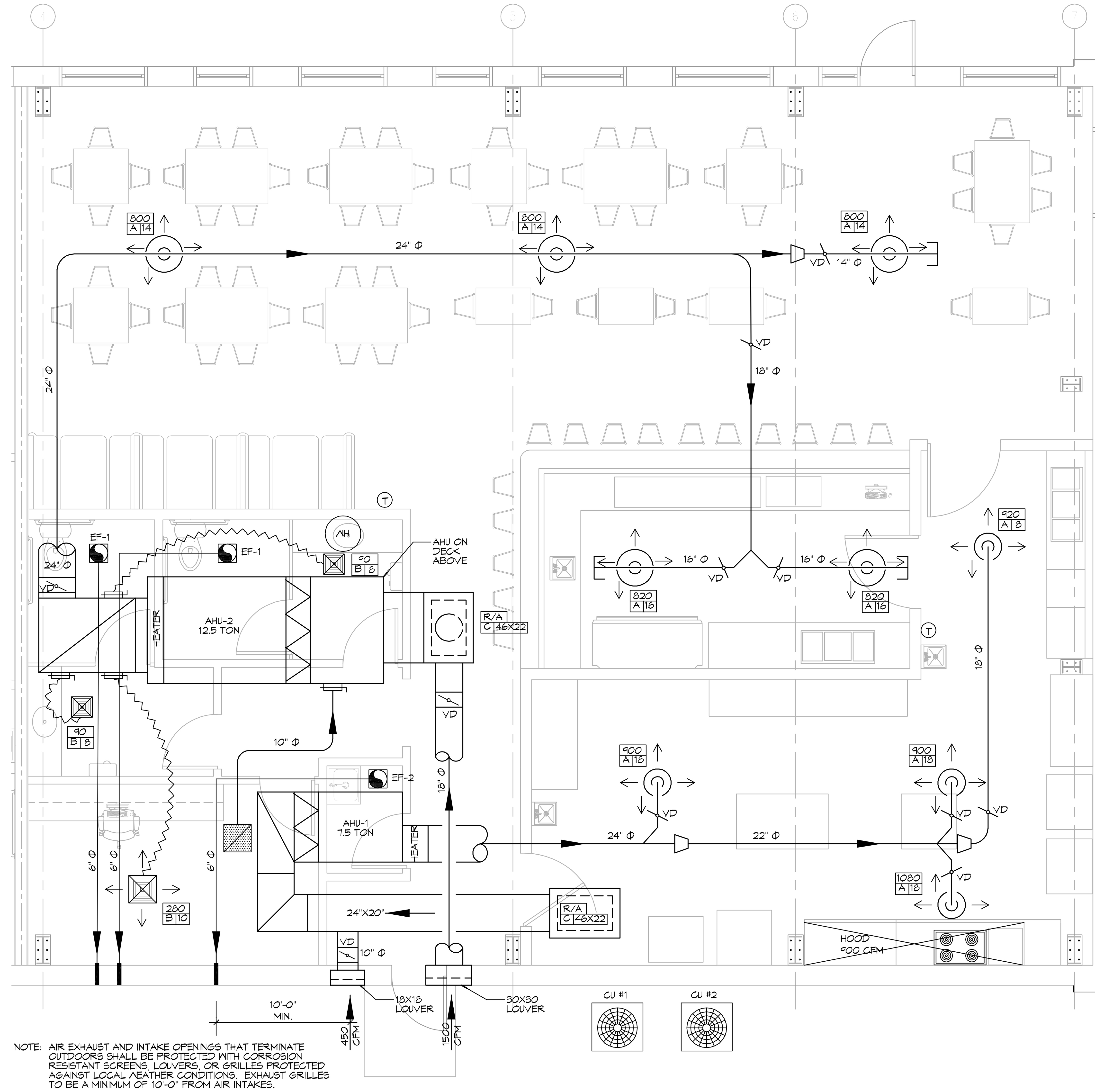
EXHAUST FAN SCHEDULE

EXHAUST	LOCATION	CFM	VOLTAGE	TYPE	MANUFACTURER
EF-1	TOILET	100	120	VENT	BROAN OR EQUAL
EF-2	JANITOR	50	120	VENT	BROAN OR EQUAL

DIFFUSER SCHEDULE

TAG	SERVICE	SIZE	DESCRIPTION	REMARKS
A	SUPPLY	REF. PLAN	ALUMINUM ROUND CONE DIFFUSER WITH VOLUME CONTROL AND PATTERN ADJUSTMENT	1, 2
B	SUPPLY	REF. PLAN	ALUMINUM 12" X 12" PERFORATED FACE DIFFUSER WITH ROUND NECK, VOLUME CONTROL AND PATTERN ADJUSTMENT	1, 2
C	RETURN	REF. PLAN	ALUMINUM PERFORATED RETURN WITH VOLUME CONTROL	1, 2
D	SUPPLY	REF. PLAN	ALUMINUM 24" X 24" PERFORATED FACE DIFFUSER WITH ROUND NECK, VOLUME CONTROL AND PATTERN ADJUSTMENT	1, 2

1. PROVIDE DEVICES WITH COLOR AS SELECTED BY ARCHITECT / OWNER
2. PROVIDE A SHEETMETAL STANDARD RADIUS ELBOW FULL SIZE OF CEILING DIFFUSER FOR CONNECTION TO FLEXIBLE DUCT



NOTE: AIR EXHAUST AND INTAKE OPENINGS THAT TERMINATE OUTDOORS SHALL BE PROTECTED WITH CORROSION RESISTANT SCREENS, LOUVERS, OR GRILLES PROTECTED AGAINST LOCAL WEATHER CONDITIONS. EXHAUST GRILLES TO BE A MINIMUM OF 10'-0" FROM AIR INTAKES.

N

1 MECHANICAL FLOOR PLAN
SCALE: 1/4"=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 DRANS 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

- SUPPLY AIR GRILLE
- RETURN AIR GRILLE
- EXHAUST FAN
- THERMOSTAT
- SUPPLY AIR DUCT
- RETURN AIR DUCT
- DAMPER CONTROL
- ROUND FLEX DUCT, MAX. LENGTH 12'-0", MIN. R-6. PROVIDE MAN. DAMPER AT DIFFUSER CONNECTIONS, DUCT SIZE AS FOLLOWS:
  250 CFM TO 350 CFM = 9"
  200 CFM TO 250 CFM = 8"
  150 CFM TO 200 CFM = 7"
  100 CFM TO 150 CFM = 6"

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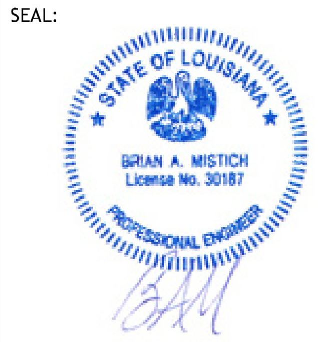
REVISIONS

#	DESCRIPTION	DATE

SEAL:



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DRAWN BY: CKD | CHECKED BY: CKD

SHEET TITLE:
MECHANICAL FLOOR PLAN, SCHEDULES AND DETAILS

DRAWING NUMBER:
M101