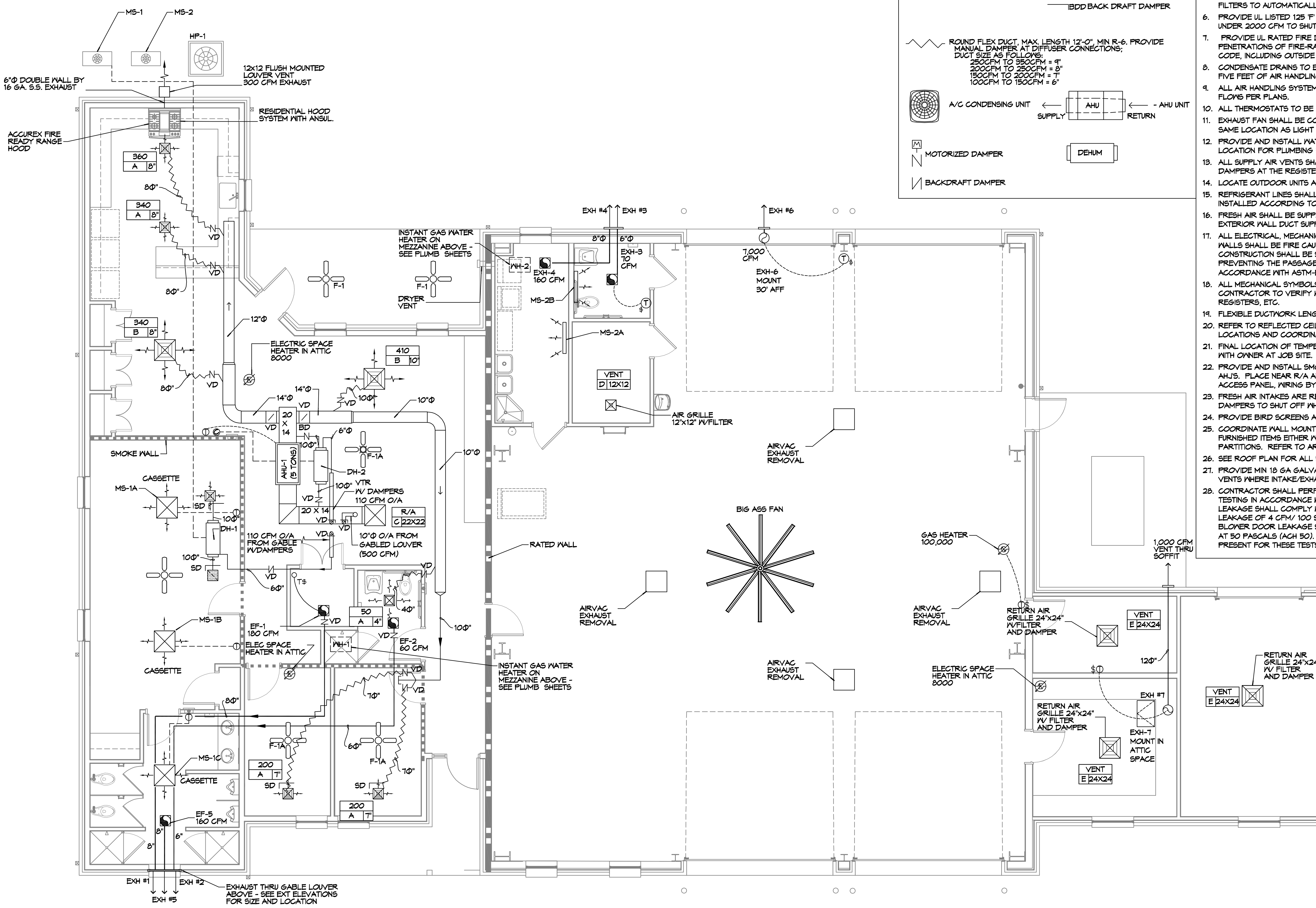
LEGEND

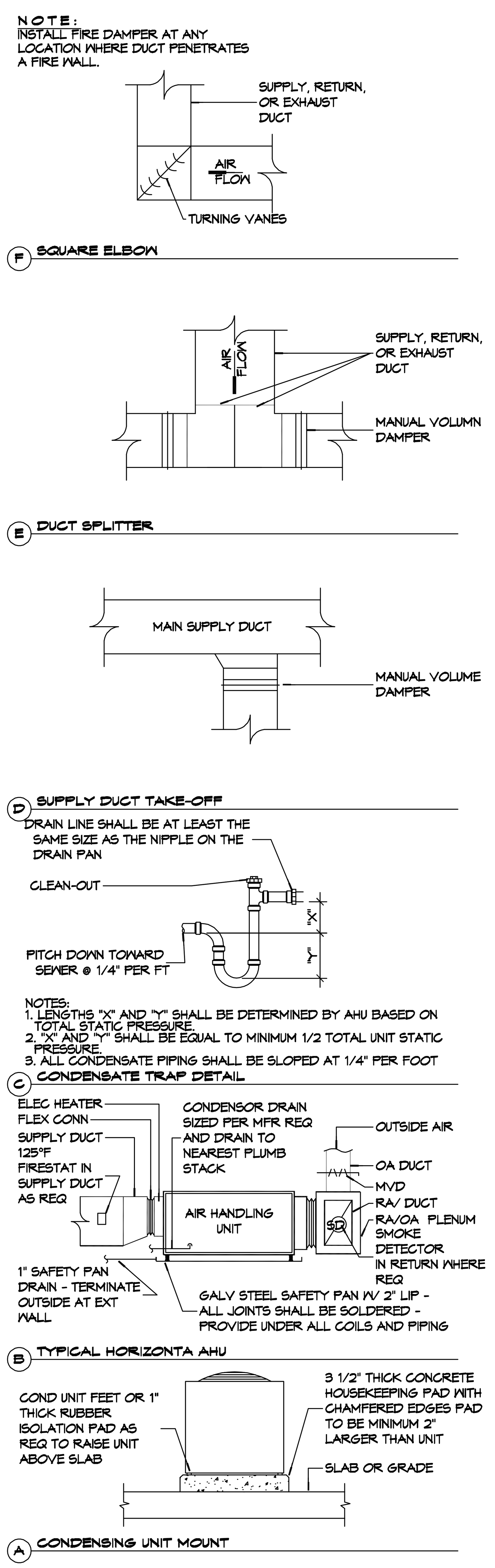
- ELECTRIC SPACE HEATER - SEE HEATER SCHEDULE
- GAS SPACE HEATER - SEE HEATER SCHEDULE
- SUPPLY AIR GRILLE
- RETURN AIR GRILLE
- EXHAUST FAN/LIGHT - SEE SCHEDULE FOR HEATER OPTION
- EXHAUST FAN ONLY
- OUTSIDE AIR INTAKE DUCT W/ VOLUME DAMPER AND MOTORIZED OR GRAVITY DAMPER TO SHUT OFF WHEN SYSTEM IS NOT RUNNING
- THERMOSTAT
- LINE VOLTAGE THERMOSTAT (PROVIDED BY MC)
- FD FIRE DAMPER
- SD SMOKE DAMPER
- VD SMOKE DAMPER
- SFD SMOKE & FIRE DAMPER
- BDD BACK DRAFT DAMPER
- ROUND FLEX DUCT, MAX. LENGTH 12'-0", MIN R-6. PROVIDE MANUAL DAMPER AT DIFFUSER CONNECTIONS; DUCT SIZE AS FOLLOWS:
  - 250CFM TO 350CFM = 9"
  - 200CFM TO 250CFM = 8"
  - 150CFM TO 200CFM = 7"
  - 100CFM TO 150CFM = 6"
- A/C CONDENSING UNIT
- AHU - AHU UNIT (SUPPLY / RETURN)
- MOTORIZED DAMPER
- DEHUM
- BACKDRAFT DAMPER

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.
28. CONTRACTOR SHALL PERFORM BLOWER DOOR AND AIR DUCT LEAKAGE TESTING IN ACCORDANCE WITH ANSI/RESNET/ICC 380 - 2022. DUCT LEAKAGE SHALL COMPLY WITH 2021 IECC STANDARDS WITH A MAXIMUM LEAKAGE OF 4 CFM/ 100 SQUARE FOOT OF CONDITIONED AREA. BLOWER DOOR LEAKAGE SHALL NOT EXCEED 5 AIR CHANGES PER HOUR AT 50 PASCALS (ACH 50). A REPRESENTATIVE FROM FD-1 WILL BE PRESENT FOR THESE TESTS.



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



2 DETAILS
SCALE: NTS

DRAWN DIAGRAMMATICALLY FOR CLARITY. FIELD VERIFY PLACEMENT OF ALL EQUIPMENT PRIOR TO FABRICATION.

THIS WORK SHALL MEET ALL HVAC CODES

1. 2021 EDITION OF THE IMC
2. 2021 IECC ENERGY CODE

BLOWER DOOR TEST AND DUCK LEAK TEST SHALL BE PERFORMED BY THE CONTRACTOR. A REPRESENTATIVE FROM THE FD1 SHALL BE PRESENT FOR THESE TEST.

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#	DESCRIPTION	DATE
REVISIONS		

SEAL:

NEW FIRE STATION #10
ST. TAMMANY FIRE PROTECTION DISTRICT No. 1
2745 LAKESHORE VISTA BLVD
SLIDELL, LA 70461

JOB No: 2519 DATE: 11-20-2025
DRAWN BY: CAD CHECKED BY: BAM

SHEET TITLE: HVAC FLOOR PLAN, DETAILS, AND SCHEDULES

DRAWING NUMBER: M101

MIN-SPLIT SCHEDULE

AIR HANDLER							HEAT PUMP							
Tag	Make	Model	Cooling (MBH)	Heating (MBH)	Power VAC	Power PH	Tag	Make/Model	Model	Cooling (MBH)	Power VAC	Power PH	MCA	Remarks
MS-1A	Mitsubishi	SLZ-AF09NL	9	11	208	1	MS-1	Mitsubishi	MXZ-3D24NL	24	208	1	28.7	1, 2
MS-1B	Mitsubishi	SLZ-AF09NL	9	11	208	1								
MS-1C	Mitsubishi	SLZ-AF09NL	9	11	208	1								
MS-2A	Mitsubishi	MSZ-GX09NL	9	9.0	208	1	MS-2	Mitsubishi	MXZ-2D20NL	22	208	1	21.7	1, 3
MS-2B	Mitsubishi	MSZ-GX09NL	9	9.0	208	1								

NOTES:

1 Install per Manufacturer's recommendations
2 Furnish with wired MA wall mount controller, matching grille and condensate pump.
3 Furnish with MHK-2 wireless controller and condensate pump.

DX SPLIT SYSTEM SCHEDULE

AIR HANDLER														HEAT PUMP								
TAG	MAKE	MODEL	NOMINAL TONS	TOTAL CFM	O/A CFM	COOLING TMBH	COOLING SBH	Motor HP	ESP (" WC)	HEAT (Kw)	POWER VAC	POWER PH	POWER MCA	TAG	NOMINAL TONS	MAKE	MODEL	POWER VAC	POWER PH	POWER MCA	REMARKS
AHU-1	Trane	TAMXB0C60	5	1900	500	60	40	1	0.3	7.2	208	1	34	HP-1	5	Trane	4TWV0X60	208	1	37	1, 2

NOTES:

1 Provide inlet filter box, single point power connection, expansion valve, time delay relay, condensate overflow switch & programmable 7/24 thermostat.
2 Cooling capacities to be rated in accordance with AHRI standard 210/290 for ASHRAE standard design weather conditions in New Orleans, LA.

Exhaust Fan Schedule

Tag	Fan				Power			Make / Model	Remarks
	Airflow (CFM)	TSP (" wc)	Amps	Watts	Volts	Phase	Hz		
EF-1	180	0.3		100	120	1	60	Loren Cook GN-542	1, 2
EF-2	50	0.2	0.4		120	1	60	Broan AE80SL	1,2
EF-3	70	0.2	0.4		120	1	60	Broan AE80SL	1,2
EF-4	160	0.2	1.5		120	1	60	Broan 503	1,2
EF-5	160	0.3			120	1	60	Broan 503	1, 2
EF-6	7000	0.1	20		120	1	60	Greenheck AER-20	1, 2, 3
EF-7	1000	0.2		190	120	1	60	Greenheck CSP-A1050QD	1, 2

1. Install per Manufacturer's recommendations.
2. Furnish with matching grille, speed control and backdraft damper.
3. Aluminum construction w/ weatherhood and motorized damper.

EXHAUST REMOVAL SCHEDULE

DESCRIPTION	QUANTITY
AIRVAC 911® EXHAUST REMOVAL SYSTEM - Single Ph. 115V	4
AIRVAC 911® FILTER PACK (4-Stage Filter Pack, "Main Filters")	4
AIRVAC 911® FILTER GAUGE (Min. one per building section)	1
UL 508A CERTIFIED CONTROL PANEL - AVEC-4C	1
ACTIVATION PACKAGE - E-960-D90Q PHOTO EYE (set) &	2
N505AUTM/STX01 (2") TRACK MOUNTED DOOR SWITCH	4
PREFILTERS (12 Per Box/Change date est. indicated below)	1

NOTE:
1. ALL FANS INSTALLED IN RATED ASSEMBLIES SHALL BE EQUIPPED W/ APPROPRIATE FIRE DAMPER TO MATCH ASSEMBLY FIRE RATING.
2. PAINT ALL SHUTTERS AND EXTERIOR GRILLES TO COLOR SPECIFICATION BY ARCHITECT.
3. PROVIDE BIRSCREENS ON ALL SHUTTERS AND EXTERIOR GRILLES.
4. PROVIDE BACK FLOW PREVENTER ON ALL EXHAUST SYSTEMS

BIG ASS FAN;
BIG ASS POWERFOIL F-PFD1-1022S34 FAN WITH DOWNTUBE AND A 1HP MOTOR. MODEL NUMBER F-PFD1-1022S34.

DEHUMIDIFIER SCHEDULE

TAG	Make	Model	Blower (CFM)	Vent (CFM)	Moisture Removal (Pints)	Power VAC	Power Ph	Power Amps	Remarks
DH-1	Santa-Fe	V125	350	110	125	120	1	10.2	1
DH-2	Santa-Fe	V125	350	110	125	120	1	10.2	1

NOTES:

1 Install units in accordance with manufacturer's recommendations.

DIFFUSER SCHEDULE

TAG	SERVICE	NECK SIZE	DESCRIPTION	REMARKS
A	Supply Air	Ref. Plan	20" x 20" Adjustable Square Cone Diffuser, Price ASCDA w/ Insulated Back Panel	1, 2, 3
B	Supply Air	Ref. Plan	24"x 24" Adjustable Square Cone Diffuser, Price ASCDA w/ Insulated Back Panel	1, 2, 3
C	Return Air	Ref. Plan	24" X 24" Perforated, Ducted Return, Titus PAR	1, 2, 3
D	Vent	N/A	12" x 12" filter return air grille, Price 60FH w/ 1" filter media	1, 3
E	Vent	N/A	24" x 24" filter return air grille, Price 60FH w/ 1" filter media	1, 3

Notes:
1. Seal perimeter of diffusers/grilles to prevent moisture migration from attic space, as applicable
2. R value of insulated back panels/plenums to exceer R-8
3. Coordinate with owner / architect for color and finish

WATER HEATER SCHEDULE

TAG	Type	Make	Model	Range of Flow (GPM)	Temperature Rise (F)	Natural Gas Maximum (MBH)	Natural Gas FT3/Hr.	Power VAC	Power Ph	Power Amps	Remarks
WH-1	Instant, Noncondensing	Rinnai	RE199I	0.13 -9.8	35	199	193	120	1	4	1

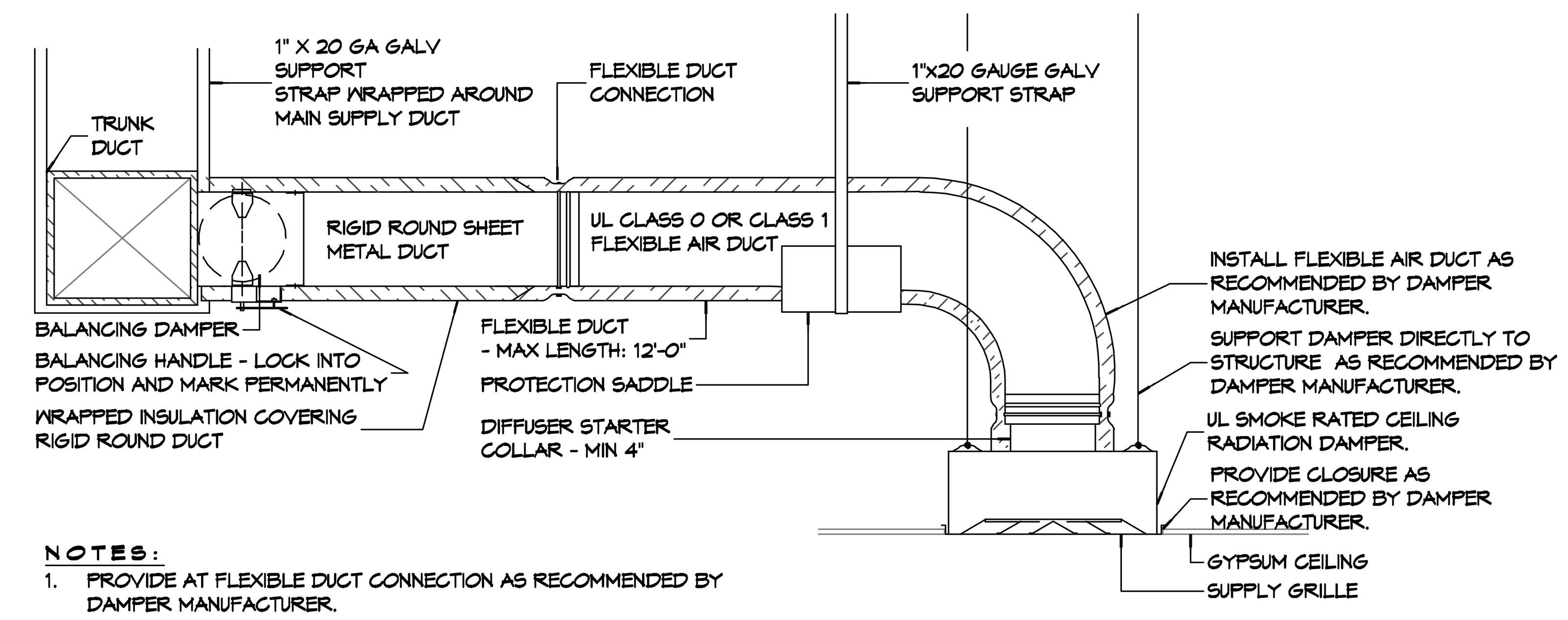
NOTES:

1 Install units in accordance with NFPA and manufacturer's recommendations.

2 SCHEDULES
SCALE: NTS

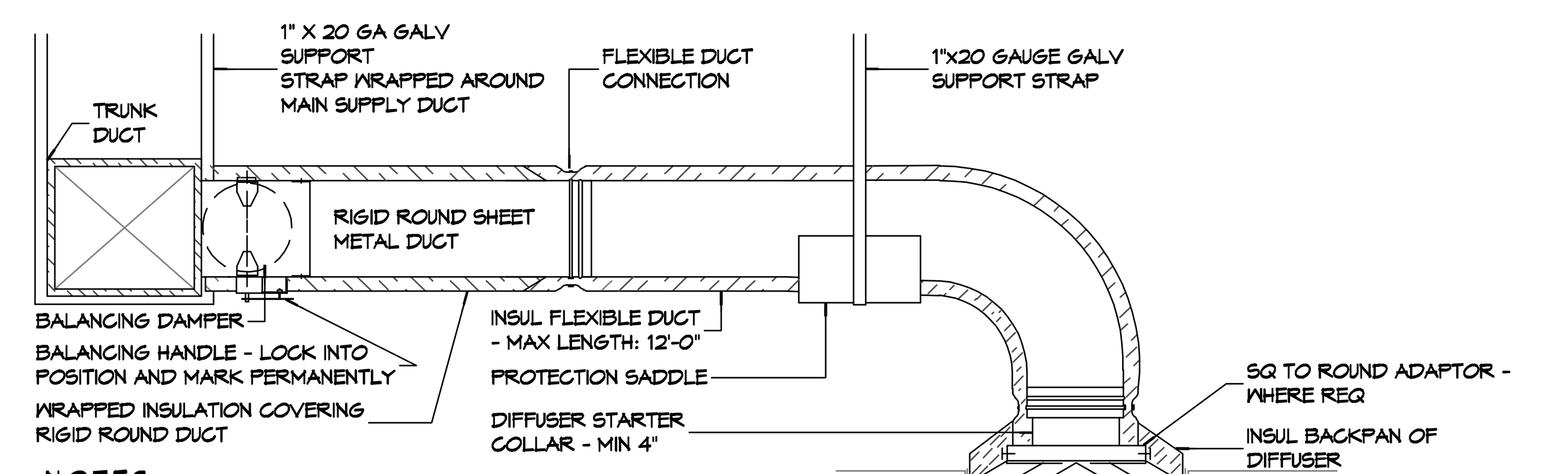
GENERAL HVAC NOTES

1. ALL MECHANICAL WORK SHALL BE COORDINATED WITH THE WORK OF OTHER TRADES.
2. VERIFY ROUTING OF ALL WORK ON SITE.
3. HVAC CONTRACTOR REPLACE ALL EQUIPMENT FILTERS AT THE TIME OF POSSESSION OF THE PROJECT BY THE OWNER, USING ONLY NEW FILTERS OF THE PROPER SIZE AND TYPE.
4. CONTRACTOR SHALL LEAVE THE HVAC SYSTEM IN PROPER WORKING ORDER AND SHALL GUARANTEE SAME FOR A PERIOD OF TWELVE (12) MONTHS FROM THE DATE OF SUBSTANTIAL COMPLETION.
5. PROVIDE A MINIMUM 4" THICK LEVEL PRE-CAST CONCRETE PAD FOR PACKAGED UNITS AT GRADE. THE SIZE OF THE PRE-CAST PAD WILL BE REQUIRED TO ACCOMMODATE THE FOOT PRINT OF THE UNIT AND BE ACCEPTABLE FOR MOUNTING.
6. WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR DIMENSIONED, INSTALL MECHANICAL SERVICES AND OVERHEAD EQUIPMENT TO PROVIDE THE MAXIMUM HEADROOM POSSIBLE.



NOTES:
1. PROVIDE AT FLEXIBLE DUCT CONNECTION AS RECOMMENDED BY DAMPER MANUFACTURER.
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.

B TYPICAL FIRE/SMOKE RATED CEILING DIFFUSER



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.

A TYPICAL NON-RATED CEILING DIFFUSER

1 DETAIL
SCALE: NTS

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#	DESCRIPTION	DATE
	REVISIONS	

SEAL:

NEW FIRE STATION #10
ST. TAMMANY FIRE PROTECTION DISTRICT NO. 1
2745 LAKESHORE VISTA BLVD
SLIDELL, LA 70461

JOB No:	2519	DATE:	11-20-2025
DRAWN BY:	CKD	CHECKED BY:	BAM

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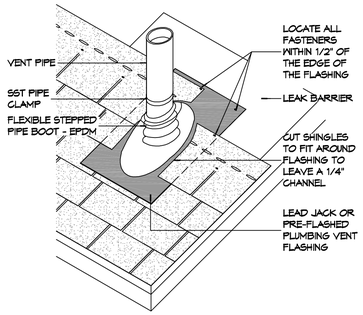
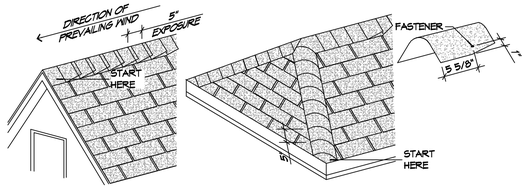
SHEET TITLE:
HVAC DETAILS AND SCHEDULES

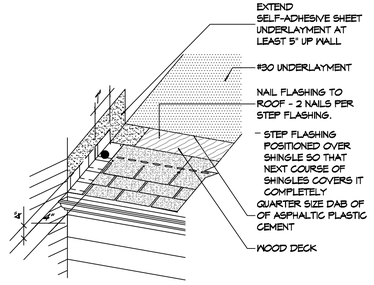
DRAWING NUMBER:
M102



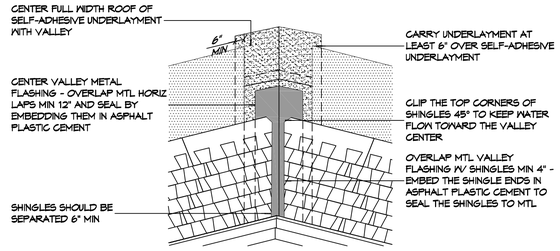
(D) PLUMBING VENT FLASHING



(C) RIDGE CAP SHINGLES

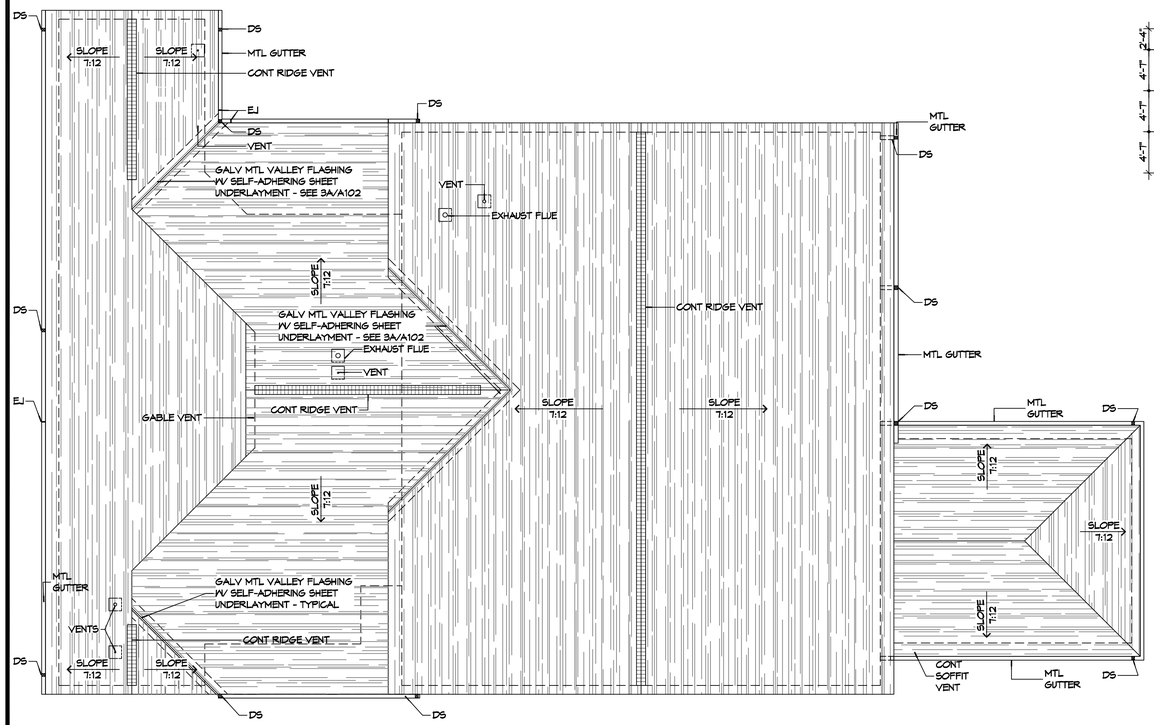


(B) STEP FLASHING

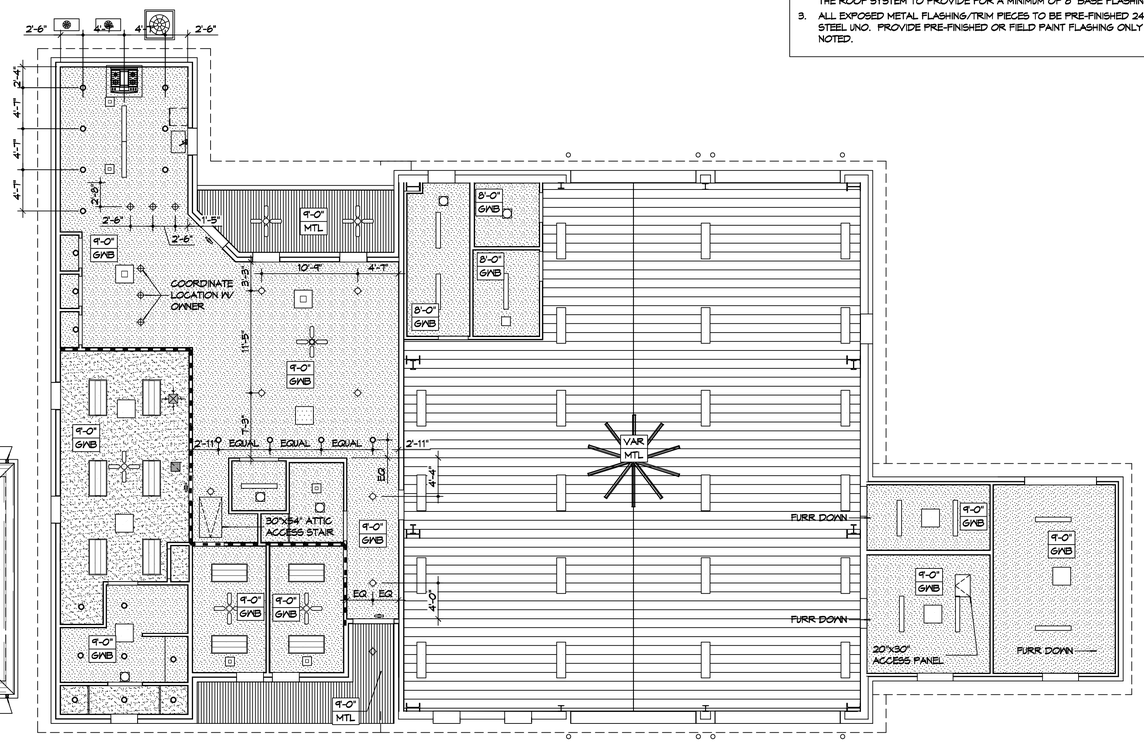


(A) VALLEY FLASHING

3 TYPICAL ROOF DETAILS
SCALE: 1" = 1'-0"



2 ROOF PLAN
SCALE: 1/8" = 1'-0"



1 REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

RCP NOTES

1. ALL CEILING HEIGHTS INDICATED ARE APPROXIMATE. ACTUAL CEILING HEIGHT TO BE DETERMINED BY STRUCTURE ELEVATION AND CEILING ASSEMBLY THICKNESS. INDICATED HEIGHT IS MEASURED ABOVE FINISH FLOOR (AFF).
2. REFER TO SHEET A501 FOR WALL/PARTITION ASSEMBLY AND INFORMATION.
3. SEE SHEET E102 FOR LIGHT FIXTURE TYPES. SEE SHEETS M101 & M102FOR DIFFUSER AND GRILLE TYPES.
4. REFER TO INTERIOR ELEVATIONS FOR MOUNTING HEIGHT OF WALL MOUNTED LIGHT FIXTURES.
5. SEAL AROUND ALL CEILING OPENINGS ON SLEEPING QUARTERS SIDE OF SMOKE PARTITION TO RESTRICT THE MOVEMENT SMOKE.

RCP LEGEND

SYMBOL	DESCRIPTION
	2'X4' SURFACE MOUNTED FLUORESCENT LIGHT FIXTURE
	1'X4' SUSPENDED HIGH BAY LIGHT FIXTURES
	SURFACE MOUNTED FLUORESCENT LIGHT FIXTURE STRIP
	CEILING FAN
	PENDANT LIGHT FIXTURE
	RECESSED LIGHT FIXTURE
	SURFACE MOUNTED LIGHT FIXTURE
	EXHAUST FAN
	HVAC SUPPLY AIR DIFFUSER
	HVAC RETURN AIR GRILL
	GYPSUM BOARD CEILING
	METAL LINER PANEL CEILING
	METAL SOFFIT PANEL

GENERAL ROOF NOTES

1. COORDINATE INSTALLATION OF NEW ROOF SYSTEM WITH OTHER TRADES. REPORT ANY CONFLICTS WITH ITEMS BY OTHER TRADES TO THE ARCHITECT.
2. ALL PLUMBING VENTS SHALL EXTEND ABOVE THE FINISHED SURFACE OF THE ROOF SYSTEM TO PROVIDE FOR A MINIMUM OF 8" BASE FLASHING.
3. ALL EXPOSED METAL FLASHING/TRIM PIECES TO BE PRE-FINISHED 24 GA STEEL UNO. PROVIDE PRE-FINISHED OR FIELD PAINT FLASHING ONLY AS NOTED.

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REVISIONS

#	DESCRIPTION	DATE

SEAL:

NEW FIRE STATION #10
ST. TAMMANY FIRE PROTECTION DISTRICT No. 1
2145 LAKESHORE VISTA BLVD
SLIDELL, LA 70461

JOB No: 2514 | DATE: 11-12-2025
DRAWN BY: KJK | CHECKED BY: KJK

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SHEET TITLE:
REFLECTED CEILING PLAN AND ROOF PLAN, ROOF DETAILS

DRAWING NUMBER:
A102

SHEET No: 18 of 35

FILE NAME: J:\... Government\2514 - Fire Station #10\Drawings\Current Drawings\A100-Reflected Ceiling Plan & Roof Plan.dwg PLOT DATE & TIME: Thursday, November 20, 2025 10:09:43 AM