

OCTOBER 23, 2024

ADDENDUM NO. 1

HVAC UPGRADES – LAUDERDALE COUNTY ANIMAL SHELTER
MARION, MS
ERG P.N. 22.006



- I. Bidder acknowledges that it is Bidder’s responsibility to ascertain whether any Addenda have been issued and if so, to obtain copies of such Addenda. Bidder therefore agrees to be bound by all Addenda that have been issued for this Bid.

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents and consists of 1 page (plus attachments). The following clarifications, changes, additions, or deletions shall be made to the following documents as indicated, and all other conditions shall remain the same.

II. PERTAINING TO THE SPECIFICATIONS

Item 1.	Reference:	001113 – Advertisement for Bids
	Scope:	Revise the first paragraph to the following: Notice is hereby given that the Board of Supervisors of Lauderdale County, Mississippi, will receive sealed bids until 2:00 PM on Friday, October 25, 2024 , for the following:
Item 2.	Reference:	095213 – Acoustical Tile Ceilings
	Scope:	Include the attached specification Section 095213 – Acoustical Tile Ceilings in the Project Manual.

III. PERTAINING TO THE DRAWINGS

Item 3.	Reference:	Sheet T0.1
	Scope:	Replace with attached Sheet T0.1
Item 4	Reference:	Sheet G1.1
	Scope:	Add the attached Sheet G1.1.
Item 5.	Reference:	Sheet M1.1
	Scope:	Replace with attached Sheet M1.1
Item 6.	Reference:	Sheet M6.1
	Scope:	Replace with attached Sheet M6.1

END OF ADDENDUM NO. 1

SECTION 095152 – ACOUSTICAL TILE CEILINGS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Provide all labor, materials, equipment, and services and perform all operations required for complete installation of Suspended Ceiling Tile and Metal Grid System and related work as indicated on the Drawings and specified herein.
- B. Work Included:
 - 1. All materials and required accessories for a complete installation of ceiling systems.
 - a. Suspended metal grid ceiling system.
 - b. Non-fire rated assembly.
 - c. Perimeter trim.
 - 2. Coordination of mechanical and electrical vents, registers, sprinkler heads, fixtures, and other miscellaneous items as required for a completed installation.

1.3 RELATED WORK

- A. Gypsum wallboard.
- B. Division 23 HVAC: Air outlets and inlets, air diffusion devices in ceiling system and fire protection systems.
- C. Division 26 Electrical: Lighting fixtures, communication devices, fire alarm devices, etc.
- D. Coordinate exact location of mechanical and electrical devices with new exposed grid with no tile.

1.4 REFERENCE STANDARDS

- A. ASTM C635: Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings.
- B. ASTM C636: Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels.

1.5 QUALITY ASSURANCE

- A. Manufacturer: Company specializing in manufacture of ceiling suspension system and ceiling panels with five (5) year minimum experience.

- B. Installer: Company with three (3) year minimum documented experience and approved by manufacturer.

1.6 SUBMITTALS

- A. See Section 230010 – Mechanical General Provisions
- B. Submit product data, O&M data, and samples and show item on shop drawings (where shop drawings are required) according to the following table.
 1. “R” means required.
 2. “R2” means required only for products and equipment differing for the specified manufacturer and model and for “or equals” where specified.

Item	Product Data	O&M Manual	Samples	Shop Drawing
Shop drawings with grid layout and related dimensions, junctions with other work or ceiling finishes and coordination with Division 23 HVAC and Division 26 Electrical items	R	R	R	R
Metal grid	R			R
Manufacturer’s installation instructions	R			

1.7 DELIVERY, HANDLING AND STORAGE

- A. Deliver products to job site in manufacturer's original packaging.
- B. Protect all materials with resilient packaging, sealed as required to prevent moisture penetration.
- C. On exterior packaging each material shall be clearly marked and labeled with manufacturers name.

1.8 ENVIRONMENTAL REQUIREMENTS

- A. Maintain uniform temperature of minimum 60 degrees F. and humidity of 20 to 40 percent prior to, curing, and after installation.

1.9 SEQUENCING/SCHEDULING

- A. Do not install acoustical ceilings until building is enclosed, sufficient heat is provided, dust generating activities have terminated, and overhead work is completed, tested, and approved.
- B. Schedule installation of acoustic units after interior wet work is dry.

1.10 EXTRA STOCK

- A. Provide one (1) extra carton of each type of ceiling panel to Owner.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Named manufacturer model numbers used as example of item and establish minimum level of quality and minimum standard options. Equivalent models of listed manufacturers are acceptable.
- B. Suspension System:
 - 1. U.S. Gypsum Company.
 - 2. Donn Corporation.
 - 3. Armstrong Corporation – Prelude Grid System.
 - 4. Or equal.

2.2 SUSPENSION SYSTEM MATERIALS

- A. Grid: ASTM C635, non-fire rated exposed T (15/16") widths; components die cut and interlocking, equal to DX Suspension System. (Coordinate w/ ceiling tile types).
- B. Accessories: Stabilizer bars and edge moldings required for suspended grid system.
- C. Grid Materials: Commercial quality cold-rolled steel with hot-dipped galvanized coating.
- D. Support Channels and Hangers: Galvanized steel; size and type to suit application, to rigidly secure acoustic ceiling system including integral mechanical and electrical components with maximum deflection of 1/360.

2.3 ACOUSTIC CEILING TILE MATERIALS

- A. Acoustical Ceiling Tiles (ACT).
 - 1. Manufactured by Armstrong, Clean Room FL
 - a. Size: 24" x 24"X 3/4" thickness.
 - b. Composition: Wet Formed Mineral Fiber.
 - c. Surface Finish: Vinyl-faced membrane.
 - d. Light Reflectance: .79.
 - e. CAC Range: 35-40.
 - f. Sag Resistance: Humiguard Plus.
 - g. Edge: Square.
 - h. Flame Spread: 25 or less. Fire Class A.
 - i. Color: White.

PART 3 - EXECUTION

3.1 INSPECTION

- A. Make a thorough examination of all areas receiving the work of this Section before starting the installation.

- B. Verify that existing conditions are ready to receive work.
- C. Verify that layout of hangers will not interfere with other work.
- D. Notify the Architect, in writing, of any defect which affects the satisfactory completion of the work of this Section.
- E. Starting of work shall imply installers acceptance of conditions.

3.2 PREPARATION

- A. Examine the Drawings and Specifications in order too, ensure the completeness of the work required under this Section.
 - 1. Supplementary parts necessary to complete all work indicated under this Section, though not specifically indicated on Drawings, or specified herein shall be provided for a complete and finished installation.

3.3 INSTALLATION

- A. Install system in accordance with ASTM C636 and as supplemented in this Section.
- B. Install system capable of supporting imposed loads to a deflection of 1/360 maximum.
- C. Install after major above ceiling work is complete.
 - 1. Coordinate the location of hangers with other work.
- D. Hang system independent of walls, columns, ducts, pipes, and conduit.
 - 1. Where carrying members are spliced, avoid visible displacement of face plane of adjacent members.
- E. Where ducts or other equipment prevent the regular spacing of hangers, reinforce the nearest affected hangers and related carrying channels to span the extra distance.
- F. Center system on room axis leaving equal border units.
- G. Do not support components on main runners or cross runners if weight causes total dead load to exceed deflection capability.
- H. Do not eccentrically load system or produce rotation of runners.
- I. Install edge molding at intersection of ceiling and vertical surfaces, using longest practical lengths.
 - 1. Miter corners.
 - 2. Provide edge moldings at junctions with other interruptions.
- J. Form expansion joints as required.
 - 1. Form to accommodate plus or minus one (1) inch movements.
 - 2. Maintain visual closure.

- K. Fit acoustic units in place, free from damaged edges or other defects detrimental to appearance and function.
- L. Lay directional patterned units one way with pattern parallel to longest room axis.
- M. Install acoustic unit's level, in uniform place, and free from twist, warps and dents.

3.4 TOLERANCES

- A. Variation from Flat and Level Surface: 1/8" in 10 feet.
- B. Variation from Plumb of Grid Members Caused by Eccentric Loads: one (1) degree maximum.

3.5 ADJUSTING AND CLEANING

- A. Remove dirt, smudges, or other blemishes from exposed surfaces of metal grid system.
- B. Panels that cannot be easily cleaned or have scratches shall be replaced with new panels to match once Substantial Completion walk through has been completed.
- C. Remove debris from project site.

3.6 PROTECTION

- A. All completed work shall be adequately protected from damage due to subsequent construction operation and effects of weather.
- B. Repair or replacement of materials shall be as required for Architect's approval.

END OF SECTION 095123

PROJECT DIRECTORY

PROJECT SITE:
LAUDERDALE COUNTY ANIMAL SHELTER
6100 ROCKY LANE
MARION, MS 39342

PRIME PROFESSIONAL AND MECHANICAL ENGINEER:
ENGINEERING RESOURCE GROUP
350 EDGEWOOD TERRACE DRIVE
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ELECTRICAL ENGINEER
SCHULTZ & WYNNE, P.A.
4523 OFFICE PARK DR.
JACKSON, MS 39206
T: (601) 982-3313

REGULATORY STANDARDS

APPLICABLE CODES AND STANDARDS INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:

2018 - INTERNATIONAL BUILDING CODE
2018 - INTERNATIONAL MECHANICAL CODE
2018 - INTERNATIONAL FUEL GAS CODE
ASHRAE STANDARD 90.1-2010

PROJECT SUMMARY

LAUDERDALE COUNTY ANIMAL SHELTER
PROJECT INCLUDES, BUT IS NOT LIMITED TO:

- REMOVE EXISTING (2) LOW PRESSURE AIR HANDING UNITS, CONDENSING UNITS, ALL RELATED DUCTWORK, CONTROLS, HANGERS, SUPPORTS, ETC.
- REMOVE EXISTING (2) EXHAUST FANS SYSTEM AND ALL RELATED DUCTWORK.
- INSTALL NEW DOAS UNIT, RELATED DUCTWORK, AND CONTROLS.
- TESTING, ADJUSTING, AND BALANCING OF ALL NEW AND EXISTING HVAC SYSTEMS AND EQUIPMENT. TAB AGENCY TO ADJUST AIRFLOW SUCH THAT THE BUILDING HAS A NET POSITIVE PRESSURE RELATIVE TO OUTDOORS UNDER ALL OPERATING CONDITIONS.
- PROVIDE NATURAL GAS LINE TO NEW DOAS UNIT. NEW GAS LINE SHALL BE SIZED AND INSTALLED PER THE 2018 INTERNATIONAL FUEL GAS CODE. MODIFY EXISTING NATURAL GAS SERVICE IN CONJUNCTION WITH THE SERVING NATURAL GAS UTILITY COMPANY.
- PROVIDE CONDENSATE LINE FROM DOAS TO NEAREST STORM OR SANITARY SEWER LINE BELOW GRADE.
- PROVIDE ELECTRICAL SERVICE TO NEW DOAS UNIT. MODIFY EXISTING ELECTRICAL AS REQUIRED.
- REMOVE ALL EXISTING CEILINGS (CEILING TILES AND GRID) AND BATT INSULATION ABOVE CEILING IN THE WORK AREA.
- INSTALL NEW CEILING (INCLUDING CEILING TILE AND CEILING GRID) SEE SPECIFICATION SECTION 095123.
- INSTALL R30 BATT INSULATION ABOVE THE NEW CEILING THROUGHOUT THE WORK AREA.
- CUTTING, PATCHING, REPAIRING, PAINTING, ETC. DAMAGED SURFACES/FINISHES.

SPECIAL PROJECT NOTES

- ANY UTILITY OUTAGES SHALL BE COORDINATED WITH THE OWNER AND PROFESSIONAL AND SHALL BE PERFORMED DURING PERIODS CONVENIENT FOR THE OWNER. OUTAGES WILL LIKELY BE REQUIRED TO BE PERFORMED AT NIGHT, ON WEEKENDS, HOLIDAYS, ETC. (PERIODS OF LIGHT OR NO CAMPUS OCCUPANCY).

DRAWING INDEX

DWG. NO. DESCRIPTION

DWG. NO.	DESCRIPTION
T0.1	TITLE SHEET
GENERAL	
G1.1	FIRST FLOOR PLAN - CEILING PLAN
MECHANICAL	
M0.1	HVAC LEGEND AND ABBREVIATIONS
MD1.1	FIRST FLOOR PLAN - MECHANICAL DEMOLITION
M1.1	FIRST FLOOR PLAN - MECHANICAL
M4.1	DETAIL OF MODULAR DOAS-1
M5.1	MECHANICAL DETAILS
M6.1	MECHANICAL SCHEDULES
M7.1	MECHANICAL CONTROLS

ELECTRICAL

E101 ELECTRICAL DRAWINGS

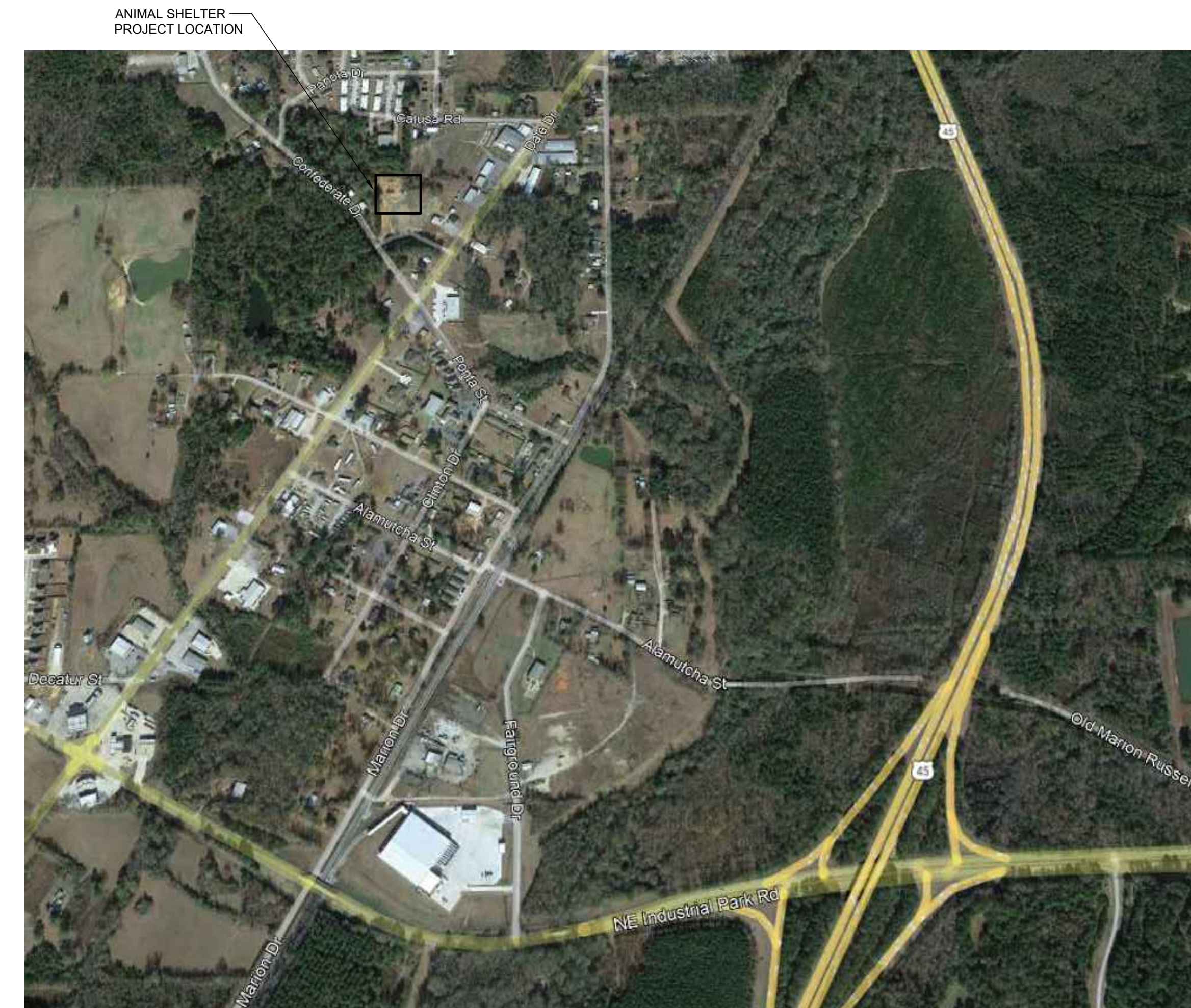
GENERAL NOTES

- EACH CONTRACTOR, SUPPLIER AND/OR MANUFACTURER SHALL REFER TO ALL DOCUMENTS PERTAINING TO THIS PROJECT AND COORDINATE ACCORDINGLY SO AS TO ENSURE ADEQUACY OF FIT, COMPLIANCE WITH SPECIFICATIONS, PROPER ELECTRICAL SERVICE, AND AVOID CONFLICT WITH ANY OTHER BUILDING SYSTEMS. VERIFY SAME WITH SHOP DRAWINGS.
- ALL OFFSETS, TURNS, FITTINGS, TRIM, DETAIL, ETC., MAY NOT BE INDICATED, BUT SHALL BE PROVIDED AS REQUIRED. ADDITIONAL ALLOWANCES SHALL BE INCLUDED FOR SAME AT EACH PROPOSER'S DISCRETION.
- OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS (CITY, COUNTY, LOCAL, STATE, FEDERAL, MUNICIPALITY, UTILITY COMPANY, OSHA, ETC.).
- ALL SYSTEMS, EQUIPMENT, AND MATERIALS ARE TO BE INSTALLED IN A NEAT AN WORKMANLIKE MANNER. WORK NOT DONE SO SHALL BE REMOVED AND REINSTALLED SATISFACTORILY.
- WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEER BEFORE INSTALLATION. REFER ALSO TO ARCHITECTURAL WALL INTERIOR AND EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS AND OTHER DETAILS OF THESE DOCUMENTS. REFERENCE SPECIFICATION 230010 "MECHANICAL GENERAL PROVISIONS" FOR COORDINATION DRAWING REQUIREMENTS.
- DO NOT SCALE DRAWINGS, PRINTING DISTORTS SCALE. WORK SHALL BE LAID OUT FROM DIMENSIONED DRAWINGS, OR DIMENSIONS SUPPLIED TO THE CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR THEIR WORK. ALL CUTTING AND PATCHING SHALL MATCH ADJACENT SURFACES.
- THESE DRAWINGS ARE ACCURATE TO THE BEST OF OUR KNOWLEDGE, HOWEVER LOCATIONS, DEPTHS, ELEVATIONS, AND SIZES WERE TAKEN FROM DIFFERENT SOURCES AND ARE SUBJECT TO DEVIATION. THE CONTRACTOR SHALL ASSUME SOME DEVIATIONS AND INCLUDE OFFSETS, ADDITIONAL PIPING, ETC. AT THE TIME OF BID.
- ADVISE THE ENGINEER OF ANY CONFLICTS, ERRORS, OMISSIONS, ETC. AT LEAST TEN DAYS PRIOR TO BID DATE, TO ALLOW CLARIFICATION BY WRITTEN ADDENDUM.
- DEVIATION FROM SPECIFICATIONS OR PLANS REQUIRES PRIOR WRITTEN APPROVAL FROM THE ENGINEER AND MUST BE SUBMITTED IN WRITING NO LATER THAN TEN DAYS PRIOR TO THE BID DATE.
- THE PURPOSE AND INTENT OF THE DOCUMENTS PERTAINING TO THIS PROJECT IS TO PROVIDE A COMPLETE, FUNCTIONAL, AND SAFE FACILITY, ANYTHING LESS SHALL BE UNACCEPTABLE.
- ALL VIBRATING, OSCILLATING, NOISE PRODUCING OR ROTATING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISY, VIBRATING, OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTOR'S EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION SHALL BE THAT OF THE ARCHITECT.
- INSTALL EQUIPMENT, MATERIALS, ETC. IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND DIRECTIONS. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ARCHITECT PRIOR TO INSTALLATION FOR CLARIFICATION.
- ALL SUPPORTS FOR EQUIPMENT, DEVICES, OR FIXTURES SHALL BE UNIQUE FROM THE BUILDING STRUCTURE. DO NOT SUPPORT FROM OTHER TRADES, EQUIPMENT OR SUPPORTS WITHOUT WRITTEN PERMISSION FROM THE ARCHITECT AND CONSENT OF THE OTHER TRADE, IN WRITING.
- DEVIATIONS IN SIZE, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT SPECIFIED SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ARCHITECT OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.
- THE GENERAL CONTRACTOR FOR THIS CONSTRUCTION IS RESPONSIBLE FOR THE COORDINATION, APPEARANCE, SCHEDULING, AND TIMELINESS OF THE WORK OF ALL TRADES, CONTRACTORS, SUPPLIERS, INSTALLERS, ETC.
- THE GENERAL CONTRACTOR, MECHANICAL CONTRACTOR, AND ALL OTHER CONTRACTORS SHALL ENSURE PROPER COORDINATION BETWEEN ALL TRADES SUCH THAT CONDUITS, PIPING, DUCTWORK, ETC. DO NOT BLOCK ACCESS TO VALVES, EQUIPMENT, DUCT ACCESS DOORS, ETC. ITEMS THAT HAVE BEEN INSTALLED WHERE ACCESS IS COMPROMISED SHALL BE RELOCATED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL INCLUDE IN THEIR BID ALL COSTS ASSOCIATED WITH DRAINING, FLUSHING, AND FILLING PIPING SYSTEMS AS REQUIRED TO INSTALL THEIR NEW WORK.
- PRIOR TO ORDERING ANY MATERIALS OR ROUGH-IN OF ANY KIND, THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL COORDINATION OF ALL ELECTRICAL REQUIREMENTS (I.E., VOLTAGE, PHASE, CIRCUIT BREAKER, WIRING SIZE, ETC.) WITH THE ELECTRICAL CONTRACTOR. THERE WILL BE NO CHANGE IN THE CONTRACT AMOUNT FOR ANY DISCREPANCIES. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ALL OTHER CONTRACTORS, VENDORS, AND SUPPLIERS AND SHALL INSURE COMPLETE, 100% FUNCTIONAL, TESTED, INSPECTED, AND APPROVED SYSTEMS. CLAIMS FOR ADDITIONAL COST OR CHANGE ORDERS WILL IMMEDIATELY BE REJECTED.
- EQUIPMENT BRACING WILL BE INCLUDED FOR ALL OVERHEAD UTILITIES AND OTHER EQUIPMENT WEIGHING 31 POUNDS OR MORE (EXCLUDING DISTRIBUTED SYSTEMS SUCH AS PIPING, ETC.). BRACING SHALL BE ACCOMPLISHED BY EITHER RIGID OR FLEXIBLE SYSTEMS. ALL EQUIPMENT MOUNTINGS SHALL BE DESIGNED TO RESIST FORCES OF 0.5 TIMES THE EQUIPMENT WEIGHT IN ANY DIRECTION AND 1.5 TIMES THE EQUIPMENT WEIGHT IN THE DOWNWARD DIRECTION. ALL BRACING SHALL BE CONTRACTOR DESIGNED.

HVAC UPGRADES LAUDERDALE COUNTY ANIMAL SHELTER MARION, MISSISSIPPI

CONSTRUCTION DOCUMENTS
SEPTEMBER 19, 2024

PROJECT MAP



CONSULTANTS:
ELECTRICAL ENGINEER
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PROJECT:

HVAC UPGRADES
LAUDERDALE COUNTY
ANIMAL SHELTER
MARION, MISSISSIPPI

PROJECT NUMBER: 22.006
DATE: 09/19/2024
DRAWN BY: DB
CHECKED BY: CM
REV: 0 IFC 09/19/24
1 ADDENDUM 1 10/18/24
2
3

SEAL



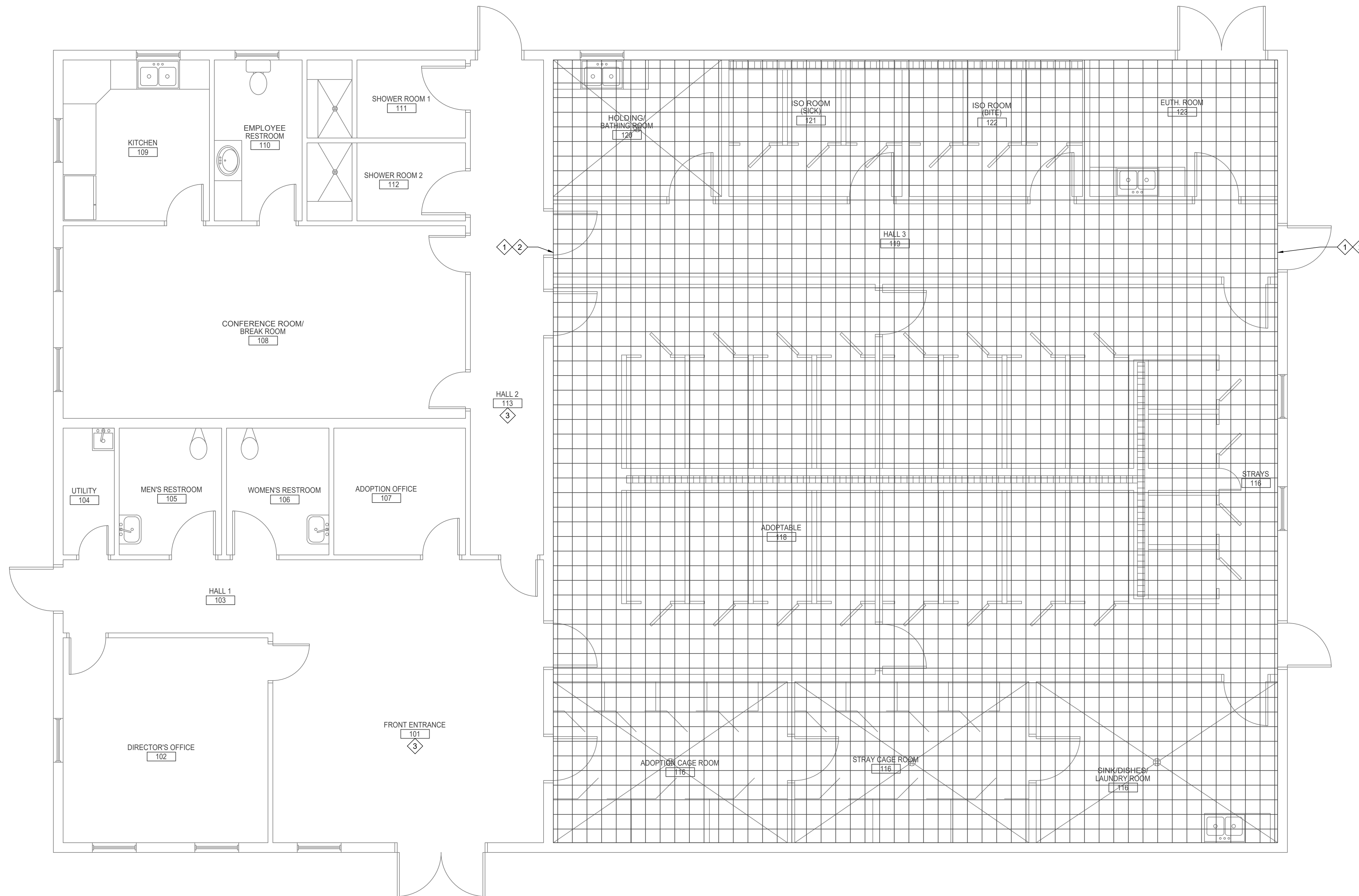
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TITLE SHEET

SHEET NUMBER

T0.1

CONSTRUCTION DOCUMENTS



FIRST FLOOR PLAN - CEILING PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

- A. CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING, PATCHING, REPAIRING AND REFINISHING ALL SURFACES AND FINISHES DAMAGED OR DISTURBED AS PART OF WORK PERFORMED UNDER THIS CONTRACT.
- B. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING, PROTECTING, AND REINSTALLING ALL CEILING MOUNTED DEVICES (LIGHTS, FIRE ALARM, COMMUNICATIONS, ETC.) IN THE AREAS WHERE CEILINGS ARE REMOVED AND/OR MODIFIED. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ALL CEILING MOUNTED DEVICES DAMAGED AS A RESULT OF WORK PERFORMED UNDER THIS CONTRACT.
- C. REINSTALL EXISTING CEILING MOUNTED DEVICES IN SAME LOCATION, COORDINATE WITH NEW HVAC SYSTEM AIR OUTLETS AND INLET LOCATIONS. ADJUST AS REQUIRED.
- D. TEMPORARY SUPPORT EXISTING CEILING MOUNTED DEVICES AS REQUIRED.

PLAN NOTES:

- 1. DEMO EXISTING CEILING, CEILING GRID, and BATT INSULATION ABOVE THE CEILING WITHIN THE HATCHED AREA.
- 2. PROVIDE AND INSTALL NEW CEILING, NEW CEILING GRID, AND R30 FIBERGLASS BATT INSULATION WITHIN HATCHED AREA. NEW CEILING HEIGHT SHALL MATCH EXISTING. NEW BATT INSULATION SHALL BE INSTALLED TO COMPLETELY COVER THE NEW CEILING AREA.
- 3. MODIFY THE EXISTING CEILINGS AND CEILING GRID IN THE FRONT ENTRANCE AND HALL 2 TO INSTALL NEW DUCT, GRILLES, FIRE DAMPERS, ETC. REPLACE CEILING TILES AND GRID DAMAGED AS PART OF WORK PERFORMED UNDER THIS CONTRACT. NEW CEILING TILES AND GRID SHALL MATCH EXISTING.

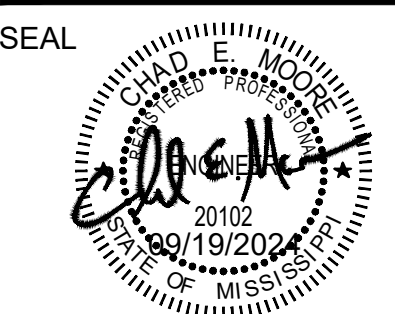


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3



SHEET TITLE:

FIRST FLOOR PLAN -
CEILING PLAN

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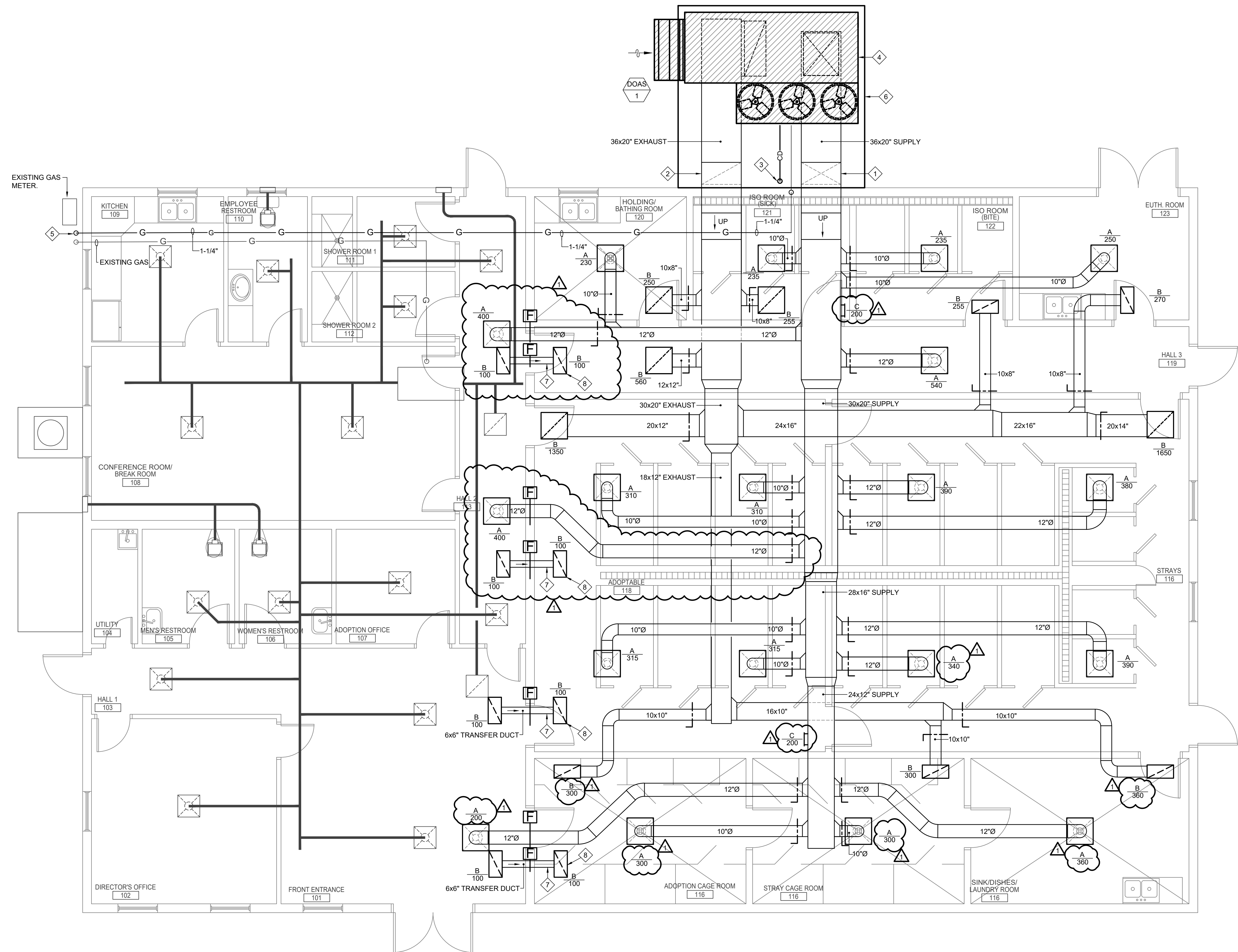
G1.1

GENERAL NOTES:

- A. CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING, PATCHING, REPAIRING AND REFINISHING ALL SURFACES AND FINISHES DAMAGED OR DISTURBED AS PART OF WORK PERFORMED UNDER THIS CONTRACT.
- B. CONTRACTOR SHALL BE RESPONSIBLE OF FRAMING, FLASHING, AND WEATHERPROOFING NEW EXTERIOR WALL PENETRATIONS FOR NEW DUCTWORK.
- C. TRANSFER AIR DUCTS SHALL BE LINED WITH 1" THICK DUCT LINER (TYPE AL PER SPECIFICATION SECTION 230713 - DUCT INSULATION)
- D. PROVIDE AND INSTALL 1-1/2 HR FIRE DAMPER IN SUPPLY AND TRANSFER AIR DUCTS PENETRATING THE FIRE RATED DEMISING WALL. FIRE DAMPERS SHALL BE EQUAL TO RUSKIN DIBD2. FIRE CAULK AROUND FIRE DAMPER TO PROVIDE A UL LISTED FIRE STOPPING ASSEMBLY.

PLAN NOTES:

- 1. SUPPLY AIR DUCTWORK TO RISE UP WALL AND ENTER ATTIC SPACE. ADJUST CEILING HEIGHT AS REQUIRED FOR DUCTWORK INSTALLATION.
- 2. EXHAUST AIR DUCTWORK TO RISE UP WALL AND ENTER ATTIC SPACE. ADJUST CEILING HEIGHT AS REQUIRED FOR DUCTWORK INSTALLATION.
- 3. ROUTE 2" CONDENSATE DRAIN TO NEAREST STORM OR SANITARY SEWER BELOW GRADE. STUB UP NEW SEWER LINE IN NEW CONCRETE PAD AND TERMINATE WITH HUB DRAIN.
- 4. CONTRACTOR TO INSTALL MIN 6" REINFORCED CONCRETE PAD IN EXISTING PARKING LOT AS REQUIRED FOR LEVEL UNIT OPERATION. PROVIDE MIN. 32" WORK CURB FOR DOWN DISCHARGE DUCTWORK INSTALLATION.
- 5. CONNECT NEW 1-1/4" GAS LINE TO NEAREST 1-1/4" OR LARGER. FIELD VERIFY. SET REGULATOR FOR 410 CFH.
- 6. NEW 6" THICK REINFORCED CONCRETE EQUIPMENT PAD. SEE PAD MOUNTED HVAC PACKAGED UNIT DETAIL SHEET MS.1.
- 7. CONNECT 6" TYPE 6 ACOUSTICAL INSULATED FLEXIBLE DUCT TO THE EXHAUST GRILLE AND FIRE DAMPER (TYPICAL BOTH SIDES OF THE FIRE DAMPER). REFER TO SPECIFICATION SECTION 233113 - METAL DUCTS FOR TYPE 6 ACOUSTICAL FLEXIBLE DUCT SPECIFICATIONS.
- 8. PROVIDE OPPOSED BLADE VOLUME DAMPER IN RA GRILLE. BALANCE TO SPECIFIED CFM.



FIRST FLOOR PLAN - MECHANICAL
SCALE: 1/4" = 1'-0"



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DEDICATED OUTDOOR AIR SYSTEM (OUTDOOR PACKAGED UNIT)

TAG	BASIS OF DESIGN	SUPPLY FAN				EXHAUST FAN				DX COOLING						GAS HEAT				ENERGY WHEEL (SUMMER)								ENERGY WHEEL (WINTER)				FILTER			ELECTRICAL DATA					OP WT (LBS.)									
		TOTAL CFM	ESP	QTY	MOTOR HP	TOTAL CFM	ESP	QTY	MOTOR HP	EDB	LDB	CAPACITY, MBH		FPI ROWS	MIN EER	MIN IEER	HGRH (MBH)	EAT	INPUT (MBH)	OUTPUT (MBH)	MIN. EFF.	OUTDOOR AIR				EXHAUST AIR				OUTDOOR AIR				EXHAUST AIR				TYPE	DEPTH		MERV	V/Ø	COMPRESSOR RLA	CONDENSER FLA	MCA	MOP			
												TOTAL	SENS									EDB	EWB	LDB	LWB	EDB	EWB	LDB	LWB	EDB	EWB	LDB	LWB	EDB	EWB	LDB	LWB										EFF.		
DOAS-1	AAON RN-025-8-0	6,200	1.0	1	7.5	5,800	1.0	1	5	78.3	52.3	323.47	308.4	12	11.6	12.7	118	20.0	270	218	80%	86.0	77.3	78.3	69.6	75.0	62.4	83.0	71.5	68.8	20.0	19.0	54.0	40.9	70.0	50.0	32.7	28.8	67.0	PLEATED	4"	8	208/3	48.1	48.1	(3) @ 7	173	200	3,724

REMARKS
CONFIGURE FOR SPACE TEMPERATURE, HUMIDITY CONTROL, & BUILDING PRESSURE CONTROL. PROVIDE WITH 10:1 MODULATING GAS HEAT, HIGH EFFICIENCY EC SUPPLY/EXHAUST MOTOR, OUTSIDE AIR, RETURN AIR AND EXHAUST AIR MODULATING POWERED DAMPER WITH BUILDING PRESSURE CONTROL, INVERTER SCROLL + FIXED SCROLL COMPRESSORS, FACTORY WIRED DISCONNECT, UNIT POWERED 115V GFI OUTLET, PHASE FAILURE MONITOR, BACNET IP CARD, REMOTE CONTROLLER, SPACE TEMPERATURE AND HUMIDITY SENSOR, BUILDING PRESSURE TRANSDUCER & ACCESSORIES, MIN 32" CURB.

AIR DISTRIBUTION DEVICE SCHEDULE

TAG	TYPE	MANUFACTURER & MODEL NO.	NECK SIZE	FACE SIZE	REMARKS
A	CEILING MOUNTED SUPPLY AIR DEVICE	PRICE SPD	SEE PLANS/ SCHEDULE BELOW	SEE PLANS/ SCHEDULE BELOW	24"x24" OR 12"x12" FACE SIZE AS INDICATED ON PLANS. PROVIDE ALL SURFACE MOUNTED GRILLES WITH PLASTER FRAME MOUNT. NECK SIZE TO BE AS INDICATED ON PLANS OR CONNECTION SCHEDULE BELOW.
B	CEILING MOUNTED EXHAUST AIR DEVICE	PRICE 80	SEE PLANS/ SCHEDULE BELOW	SEE PLANS/ SCHEDULE BELOW	24"x24" OR 24"x12" FACE SIZE AS INDICATED ON PLANS. PROVIDE ALL SURFACE MOUNTED GRILLES WITH SCREW HOLES. NECK SIZE TO BE AS INDICATED ON PLANS OR CONNECTION SCHEDULE BELOW.
C	SIDEWALL MOUNTED SUPPLY AIR DEVICE	PRICE 520	SEE PLANS/ SCHEDULE BELOW	SEE PLANS/ SCHEDULE BELOW	FACE SIZE TO BE NECK SIZE PLUS 2". PROVIDE WITH TYPE "A" EXTERNAL SCREW. NECK SIZE TO BE AS INDICATED ON PLANS OR CONNECTION SCHEDULE BELOW. PROVIDE WITH OPPOSED BLADE VOLUME DAMPER. DISCHARGE AIR INTO INTERSTITIAL SPACE.

- NOTES
- CEILING DIFFUSERS ARE 4-WAY UNLESS OTHERWISE NOTED BY SHADING ON PLANS.
 - REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPE AND CONSTRUCTION DETAILS.
 - AIR DEVICE FRAME AND STYLE SHALL MATCH CEILING TYPE. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLAN.
 - REFER TO ARCHITECT FOR FINISHES AND COLOR OF DEVICES.
 - FACE SIZE TO BE NECK SIZE PLUS 2".
 - PROVIDE OPPOSED BLADE VOLUME DAMPER IN TRANSFER AIR GRILLES (QTY 4.)

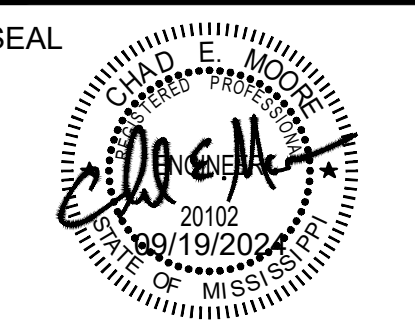
AIR DEVICE CONNECTION SCHEDULE

AIR QUANTITY (CFM)	CEILING MOUNTED NECK SIZE	SIDEWALL MOUNTED NECK SIZE	EXHAUST AIR GRILLE NECK SIZE	BRANCH DUCT SIZE	
				ROUND	ALTERNATE RECTANGULAR DUCT
0-100	6"Ø	8x4"	8x8"	6"Ø	8x4"
101-200	8"Ø	10x6"	8x8"	8"Ø	10x6"
201-350	10"Ø	12x8"	10x10"	10"Ø	12x8"
351-600	12"Ø	14x10"	12x12"	12"Ø	14x10"
601-850	14"Ø	16x12"	14x14"	14"Ø	16x12"
851-1200	16"Ø	18x16"	16x16"	16"Ø	18x16"

PROJECT:

HVAC UPGRADES
 LAUDERDALE COUNTY
 ANIMAL SHELTER
 MARION, MISSISSIPPI

PROJECT NUMBER: 22.006
DATE: 09/19/2024
DRAWN BY: DB
CHECKED BY: CM
REV: 0 IFC 09/19/24
1 ADDENDUM 1 10/18/24
2
3



SHEET TITLE:
MECHANICAL SCHEDULES

SHEET NUMBER

M6.1