
Pulaski County Schools – Energy Upgrades: General Trades
Bid Release: March 20th, 2022

CMTA Contact: Megan Brangers
Email: MBrangers@cmta.com
Phone: (502) 919-1521

Please fill out and return the attached bid form to Megan Brangers by April 1st, 2022 by 4:00 pm.
MBrangers@cmta.com

Project Background:

This project consists of various mechanical HVAC upgrades for Pulaski County Schools. This project is a performance contract, so the scope is funded from energy and operational savings. The successful contractor(s) will be a subcontractor to CMTA.

General:

Contractor will include the following:

1. Provide all labor and material to accomplish the scope of work as outlined in the bid package documents.
2. Complete all installation work during hours coordinated with the owner's class and staff occupancy schedules. Contractor shall provide an overall project schedule and shall coordinate a bi-weekly task schedule with the CMTA construction manager to allow for appropriate coordination with the Owner.
3. Provide all ladders, lifts and scaffolds required to access work areas.
4. Provide all required equipment to perform work, such as lifts, crane, etc.
5. Maintain safe work habits and utilize all necessary safety equipment.
6. Clean all work areas after installation work is complete. Drywall dust, ceiling tile debris, etc. is to be removed and rooms broom swept before turning over to CMTA/Owner. Provide and install plastic sheeting as required to protect Owner's furniture and belongings.
7. Provide on-site dumpster as necessary. Construction debris not to be placed in Owner's dumpsters or trash cans.
8. Provide on-site portable toilets as necessary.
9. Provide all necessary material and labor including, but not limited to, the following as required to complete the scope of work per drawings and specifications:
 - a. Permit and fees
 - b. Ceiling tile, grid, supports, etc.
 - c. Drywall, joint compound, framing, etc.
 - d. Sheet metal and accessories
 - e. All insulation
 - f. All other miscellaneous required materials to complete the scope of work
 - g. Demolition and disposal of demolished materials/equipment
 - h. Ceiling removal and replacement as necessary to complete installation of new work

The following trades shall be provided by general trades contractor:

1. General Trades

Other Trades:

The following trades will be a subcontractor direct to CMTA and the general trades contractor shall exclude these trades from the scope of work:

1. Sheet Metal
2. Piping – Hydronic & Plumbing
3. Insulation
4. Temperature Controls
5. Electrical
6. HVAC Testing, Adjusting and Balancing

Contractor's License

Contractor is responsible for securing all required licenses and keeping a copy on site at all times while work is in progress. Contractor shall provide a copy of an up to date and valid Kentucky Contractors license as part of their bid response. Contractor shall be required to keep these licenses up to date and valid during the duration of Contractor work completed as part of this project.

Buildings included in Scope:

- Eubank Elementary School
- Nancy Elementary School
- Oak Hill Elementary School
- Shopville Elementary School

Site Visits:

Pre-bid site walk-throughs are optional. Individual walk-throughs will be scheduled as requested, contact Megan Brangers (MBrangers@cmta.com) for scheduling.

Project Schedule & Sequence:

A final project schedule will be developed by CMTA after coordinating the installation times for each trade. It is anticipated construction will begin May 22nd, 2023 and be completed August 1st, 2023. CMTA will work with the successful contractors to finalize the project schedule, see below for Construction Schedule. Schedules are dependent on delivery of mechanical equipment; construction task sequencing shall be adjusted based on delays in equipment deliveries. Refer to general trades drawings for details on work associated with each task.

1. **Bid Due Date:** April 1, 2022
2. **Bid Award:** April 2022
3. **Execute Sub-Contract:** May 2022
4. **Provide Submittals to CMTA:** June 2022

5. **Pre-construction Meetings:** March 2023
6. **Construction Mobilization & Site Preparation:** Start May 18, 2022
7. **Summer Construction:** Start May 22, 2023, End August 1, 2023

Summer construction coincides with Pulaski County Schools' summer break. Final rough-in and preparation activities to be confirmed prior to construction.

Job Site Rules:

1. Owners site use rules to be followed at all times including instructions for the following
2. CMTA site use rules
 - a. No alcohol or drugs will be used on the job site.
 - b. No furniture, electronic equipment or personal property will be touched, moved or disturbed.
 - c. All installation personnel will wear and employ personal protective gear as appropriate and per OSHA minimums.
 - d. All installation personnel will wear t-shirts or uniforms that identify the contractor.
 - e. Sub-contractors will treat any job site condition that materially affects job outcomes and schedules as emergencies and will contact the CMTA Construction Manager immediately.
 - f. All literature supplied with materials and equipment will be properly stored by the sub-contractors and delivered in like-new condition to CMTA.
 - g. Contractor will take responsibility for handling and storing all new and removed materials.

Schedule of Values

Contractor shall provide CMTA a schedule of values with both labor and materials broken out separately by building for billing purposes prior to contract.

Prevailing Wage:

As with all Energy Savings Performance Contracts, clients have the option to couple district funds with funding from energy savings. For this project, Elementary and Secondary School Emergency Relief (ESSER) Funds from the Education Stabilization Fund through the Coronavirus Aid Relief, and Economic Security (CARES) Act will be utilized.

In the case that this project scope is fully funded by ESSER contributions, the scope will be subject to Davis-Bacon and prevailing wages. While the base bid should **not** consider prevailing wages, contractors are required to submit adds based on prevailing rates.

Domestic Preferences for Procurement:

This project will use ESSER awards to fund a portion of the project scope of work. The Buy American Act ***DOES NOT*** apply to this grant; however, ESSER awards are subject to 2 CFR § 200.322, a new regulation that applies to Federal grants made after November 12, 2020. It establishes domestic preferences for procurements under Federal grants that are subject to the Uniform Guidance. The text of this regulation follows:

2 CFR § 200.322 Domestic Preferences for Procurement

(a) As appropriate and to the extent consistent with law, the non-Federal entity should, to the greatest extent practicable under a Federal award, provide a preference for the purchase, acquisition, or use of goods, products, or materials produced in the United States (including but not limited to iron, aluminum, steel, cement, and other manufactured products). The requirements of this section must be included in all sub-awards including all contracts and purchase orders for work or products under this award.

(b) For purposes of this section:

(1) “Produced in the United States” means, for iron and steel products, that all manufacturing processes, from the initial melting stage through the application of coatings, occurred in the United States.

(2) “Manufactured products” means items and construction materials composed in whole or in part of nonferrous metals such as aluminum; plastics and polymer-based products such as polyvinyl chloride pipe; aggregates such as concrete; glass, including optical fiber; and lumber.

Project Manager & Qualified Labor

Contractor shall provide a qualified Project Manager to oversee the project scope. The Contractor shall provide sufficient and qualified labor to complete all components of the RFP scope on schedule.

Demolition & Site Clean-Up

Contractor is responsible for lawful disposal of all demolished materials. Contractor is responsible for keeping accurate documentation of lawful disposal and documentation shall be provided to CMTA upon request.

Contractor is responsible for cleaning up after contractor crews to ensure site conditions are as good, or better, then they were found. For unoccupied areas, where work is completed during breaks, general cleaning shall be completed, at a minimum, weekly and final cleaning be fully completed before prior to students, faculty or staff re-occupy the work area.

Contractor staging of equipment shall be coordinated with, and approved by, CMTA Construction Manager.

General Scope of Work:

Refer to Project Drawings and Specifications for extent and details of project scope. Listed below are **highlights** for this project:

Eubank, Nancy, Shopville, and Oak Hill Elementary Schools will undergo HVAC renovations. The general trades scope encompasses work associated with the mechanical contractor’s demolition and new installation.

Eubank Elementary:

- Louver infill, wall and floor patching, and cosmetic work following HVAC equipment demolition and removal. Contractor to include labor to remove and relocate cabinets, shelves, and tack boards as noted.
- Grid tile ceiling removal and reinstallation at designated areas.
- Plaster ceiling removal at designated areas.
- Mechanical room closet wall construction.
- Pumping station closet wall construction.

Nancy and Shopville Elementary:

- Soffit construction at designated areas. Contractor to include painting soffit to match existing wall color.
- Louver infill, wall and floor patching, and cosmetic work following HVAC equipment demolition and removal. Contractor to include labor to remove and relocate cabinets, shelves, and tack boards as noted.
- Grid tile ceiling removal and reinstallation at designated areas.
- Wall and floor patching and painting following electric heater equipment demolition.

Oak Hill Elementary:

- Louver infill, wall and floor patching, and cosmetic work following HVAC equipment demolition and removal. Contractor to include labor to remove and relocate cabinets, shelves, and tack boards as noted.
- Grid tile ceiling removal and reinstallation at designated areas.
- Wall and floor patching and painting following electric heater equipment demolition.

Project Safety:

Project safety is of utmost importance and any workplace safety violations will not be tolerated. Please fill out the attached Project Safety Qualification Checklist unless you have submitted one to CMTA in the last 12 months.

Permits and Insurance Requirements:

Permits: Contractor is responsible for securing all required reviews, permits, etc. for the work, and is responsible for the cost of the permits.

Insurance: The sub-contractor shall name CMTA, Inc. and Pulaski County Schools as an Additional Insured under their General Liability coverage. Commercial and General Liability not less than \$1,000,000 each occurrence and \$2,000,000 general aggregate. Workman's compensation meeting statutory requirements and Employee Liability Insurance not less than \$1,000,000 each occurrence. Commercial automobile liability insurance not less than \$500,000/person, \$1,000,000/ person is preferred.

Project Bonding:

Performance and Payment bonds:

Performance and Payment Bonding Rate

In the event that CMTA requires Performance and Payment Bonding, indicate bonding rate:

\$ _____ / \$1,000 _____

Company _____

Authorized Representative _____ Title _____

Liquidated Damages: Liquidated damages of \$1,000 per day for failure to meet project substantial completion and any other negotiated project milestones for phased completion projects.

Project Bid Form:

Although break-out pricing is requested, the intent is to award the contract to only one successful bidder.

Having carefully examined the Request for Proposal, Site Conditions, Specifications, and Drawings, on the above referenced project, the undersigned bidder proposes to furnish all labor, materials, equipment, tools, supplies, and temporary devices required to complete the work in accordance with the contract documents and any addenda listed below for the price stated herein.

Addendum _____

(Insert the addendum numbers received or the word "none" if no addendum received.)

For the construction required to complete the work, in accordance with the contract documents, I/We submit the following:

Bid Amounts

Eubank Elementary School	\$ _____
Nancy Elementary School	\$ _____
Shopville Elementary School	\$ _____
Oak Hill Elementary School	\$ _____

Pulaski Schools Total General Trades Cost \$ _____

*The bid amount breakouts will be used to review scope. The bid amount total should add up to the total mechanical cost above.

Unit Pricing

Provide unit price for lay-in ceiling removal and reinstallation per 800 square-foot classroom including main runners, ceiling height is 8 to 9 feet above finished floor. Include cost of new tiles.

Cost per classroom \$ _____

Prevailing Wages Add

In the case that this project scope is fully funded by ESSER contributions, the scope will be subject to Davis-Bacon and prevailing wages. While the base bid should **not** consider prevailing wages, contractors are required to submit adds based on prevailing rates.

Add Cost for Prevailing Wage Rates: \$ _____

Name of Contractor

Authorized Rep. Signature

Title

Name

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MBrangers@cmta.com

Attachments:

1. Pre-Qualification Checklist
2. General Trades Drawings
3. Mechanical Drawings
4. Wage Rate Determination



CMTA Energy Solutions Pre-Qualification Checklist

Project Name:

1. CONTRACTOR INFORMATION

Name of Contractor: Date:

Business Address:

City, State, Zip: , ,

Telephone No: ()

Fax No: ()

Contact Person:

Years in Business:

Emergency Contact Name:

Emergency Contact Telephone Number: ()

2. INJURY/ILLNESS HISTORY

Provide your company's injury/illness experience for the past 3 years as reported on the OSHA 300 log. (You may also submit copies of your 300 logs for the past three years).
Criteria - all injury/illness history will be evaluated based on the criteria of like industry.

	2019	2020	2021
Number of OSHA Recordable Cases	<input type="text"/>	<input type="text"/>	<input type="text"/>
Number of Lost/Restricted Workdays	<input type="text"/>	<input type="text"/>	<input type="text"/>
Number of Fatalities	<input type="text"/>	<input type="text"/>	<input type="text"/>
Number of Man-Hours Worked	<input type="text"/>	<input type="text"/>	<input type="text"/>



3. WORKERS' COMPENSATION

A. What was your experience modification rate (EMR) for the past 3 years?

/2019 /2020 /2021

B. Name of your current Workers' Compensation Insurance & General Liability Insurance Companies:

C. Name and address of your Workers' Compensation & General Liability Insurance Agent(s):

D. Duration of coverage under current Workers' Compensation & General Liability Insurance Company:

4. CITATIONS

Has your company been cited by OSHA/EPA in the past 3 years? YES NO

If yes, list the violations:

5. SAFETY PROGRAM EVALUATION (Only check those relevant to the project)

	Yes	No	N/A	Copy Provided (Optional)
1. Do you have a written Safety Policy?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Do you have a written Safety Program?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Do you have a written Accident Investigation Plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Do you have a written Substance Abuse Policy?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Do you have a written Safety Rules?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Do you have a written Discipline Policy?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Do you have a written Safety Award Program?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Do you have a written HazCom Program?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



	Yes	No	N/A	Copy Provided (Optional)
9. Do you have a written Motor Vehicle Safety Program?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Do you have a written Lock Out/Tag Out Procedures?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Do you have a written Fall Protection Program?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Do you have a written Confined Space Program?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Do you have a written Forklift Program?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Do you have a written PPE Program?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. Do you have a written Safety Shoe Policy?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16. Do you have a written Respirator Program?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. Do you have a written Blood-borne Pathogen Program?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18. Are new employee safety orientations held?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19. Do you have mandatory drug testing for new hires?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20. Does your company have a random drug testing program?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	Yes	No	How Often
21. Are employee safety meetings held?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
22. Are 'toolbox' safety meetings held?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
23. Are field safety audits conducted?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>

24. Who conducts the field safety audits?

SAFETY PROGRAM EVALUATION (Only check those relevant to the project)

Yes No N/A



- | | | | |
|---|--------------------------|--------------------------|--------------------------|
| 25. Do you have Trenching 'competent' persons? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 26. Do you have Scaffolding 'competent' persons? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 27. Are Crane and Boom truck operators qualified? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 28. Does your company use crane lift permits? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 29. Are your cranes inspected monthly? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 30. Do you check your drivers' records? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 31. Do your Electrical Workers wear FR clothing? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 32. Do you 'Safety Qualify' your sub-contractors? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

6. EMPLOYEE TRAINING

ARE APPROPRIATE EMPLOYEES FORMALLY TRAINED WITH DOCUMENTATION IN THE FOLLOWING SUBJECTS?

	Yes	No	N/A		Yes	No	N/A
Personal Protective Equip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lock Out/Tag Out	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Respiratory Protection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Emergency Response	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
First Aid	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	CPR	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Welding	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Rigging	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fall Protection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hearing Conservation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hazard Communication	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Trenching Safety	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Confined Space Entry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Electrical Safety	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Scaffolding	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Forklifts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7. ENVIRONMENTAL COMPLIANCE

During the last five years, has your company/firm received a violation/fine/penalty for non-compliance involving any of the following:	YES	NO
Improper disposal/dumping of hazardous waste or hazardous materials on land or in water.	<input type="checkbox"/>	<input type="checkbox"/>
Discharging oil, an oil byproduct, or other hazardous substances to land, water, or air.	<input type="checkbox"/>	<input type="checkbox"/>
Release of oil or hazardous waste during transport of hazardous materials and/or hazardous waste.	<input type="checkbox"/>	<input type="checkbox"/>

If you answered yes to any of the questions above, please provide an explanation of the circumstances surrounding the violation.

8. PERSONNEL

1. Who will be responsible job site safety and environmental compliance for your company?

Name

Title

Will this person have responsibilities other than safety? Yes No

2. Who is your company's Safety Director? If not full-time, what percentage %.

Name

Title

3. Will your company's site Safety Director have the authority to correct safety violations? Yes No



The undersigned warrants and represents the data provided in this document is accurate and correct in all respects. All documents include herein are subject to review upon the awarding of this contract.

Signature

Print Name/Title

Date Signed

Return the signed Pre-Qualification checklist to:

CMTA Consulting Engineers
ATTN: Troy Schoenbaechler
10411 Meeting Street
Louisville, KY 40059

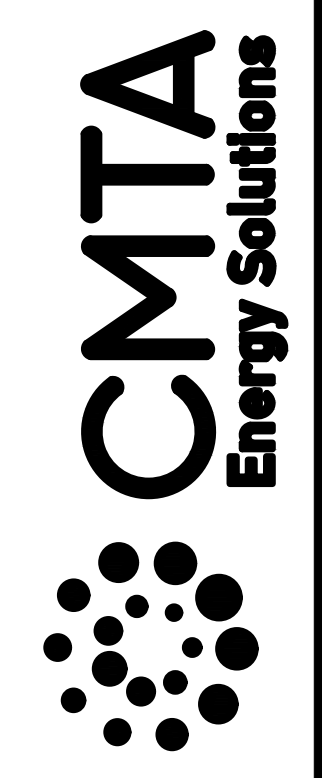
or via email to: troys@cmta.com

NOT FOR
CONSTRUCTION

EUBANK ELEMENTARY SCHOOL

285 KY-70, EUBANK, KY 42567 GENERAL TRADES DRAWINGS

9519 Civic Way, Suite 100
Prospect, KY 40059
T.502.409.4062 F.502.919.1521
MBrongers@CMTA.COM



General Notes

THE GENERAL TRADES CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING:

1. PROVIDE ALL LABOR AND ALL MATERIALS REQUIRED TO COMPLETE SCOPE OF WORK.
2. COMPLETE ALL INSTALLATION WORK DURING HOURS COORDINATED WITH THE OWNER'S CLASS AND STAFF OCCUPANCY SCHEDULES. CONTRACTOR SHALL PROVIDE AN OVERALL PROJECT SCHEDULE AND SHALL COORDINATE A BI-WEEKLY TASK SCHEDULE WITH THE CMTA CONSTRUCTION MANAGER TO ALLOW FOR APPROPRIATE COORDINATION WITH THE OWNER.
3. PROVIDE ALL LADDERS, LIFTS AND SCAFFOLDS REQUIRED TO ACCESS WORK AREAS.
4. PROVIDE ALL REQUIRED EQUIPMENT TO PERFORM WORK.
5. MAINTAIN SAFE WORK HABITS AND UTILIZE ALL NECESSARY SAFETY EQUIPMENT.
6. CLEAN ALL WORK AREAS AFTER INSTALLATION WORK IS COMPLETE. ALL CONSTRUCTION DEBRIS SHALL BE COMPLETELY REMOVED AND CLEANED BY CONTRACTOR.
7. PROVIDE ON-SITE DUMPSTER AS NECESSARY. CONSTRUCTION DEBRIS NOT TO BE PLACED IN OWNER'S DUMPSTERS OR TRASH CANS.
8. PROVIDE ON-SITE PORTABLE TOILETS AS NECESSARY.
9. REFER TO MECHANICAL PLANS FOR FULL EXTENT OF MECHANICAL SCOPE AS IT RELATES TO THE GENERAL TRADES SCOPE.
10. PROVIDE ALL NECESSARY MATERIAL AND LABOR INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING AS REQUIRED TO COMPLETE THE SCOPE OF WORK PER DRAWINGS AND SPECIFICATIONS:
 - a. PERMIT AND FEES
 - b. DEMOLITION AND INSTALLATION LABOR
 - c. SHEET METAL
 - d. INSULATION
 - e. CEILING TILE AND T-GRID
 - f. DRYWALL, JOINT COMPOUND, FRAMING, BLOCK, ETC.
 - g. ALL OTHER MISCELLANEOUS REQUIRED MATERIALS TO COMPLETE THE SCOPE OF WORK

PULASKI COUNTY SCHOOLS
GUARANTEED ENERGY SAVINGS CONTRACT
EUBANK ELEMENTARY SCHOOL
EUBANK, KENTUCKY

EUBANK ELEMENTARY SCHOOL - GENERAL TRADES

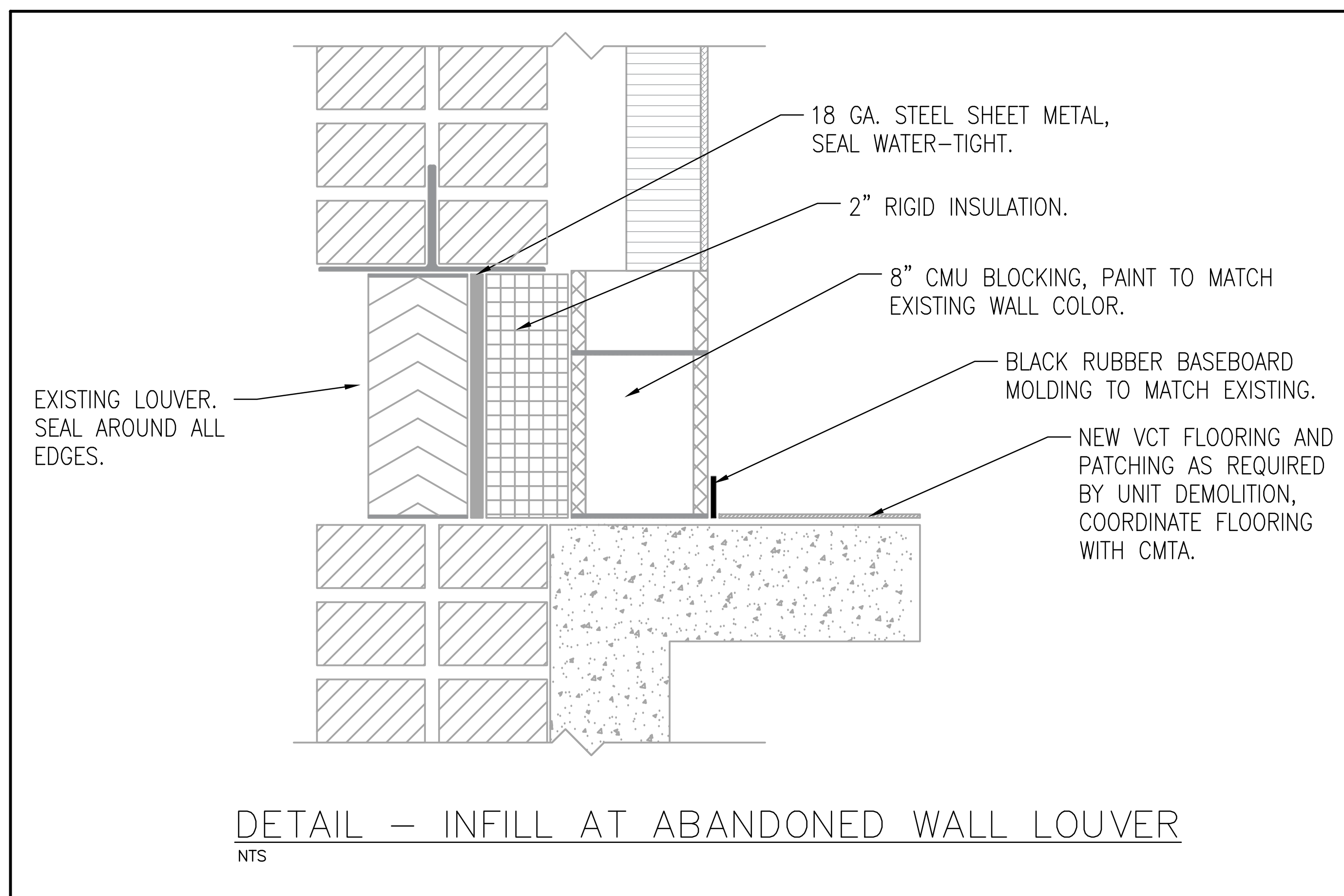
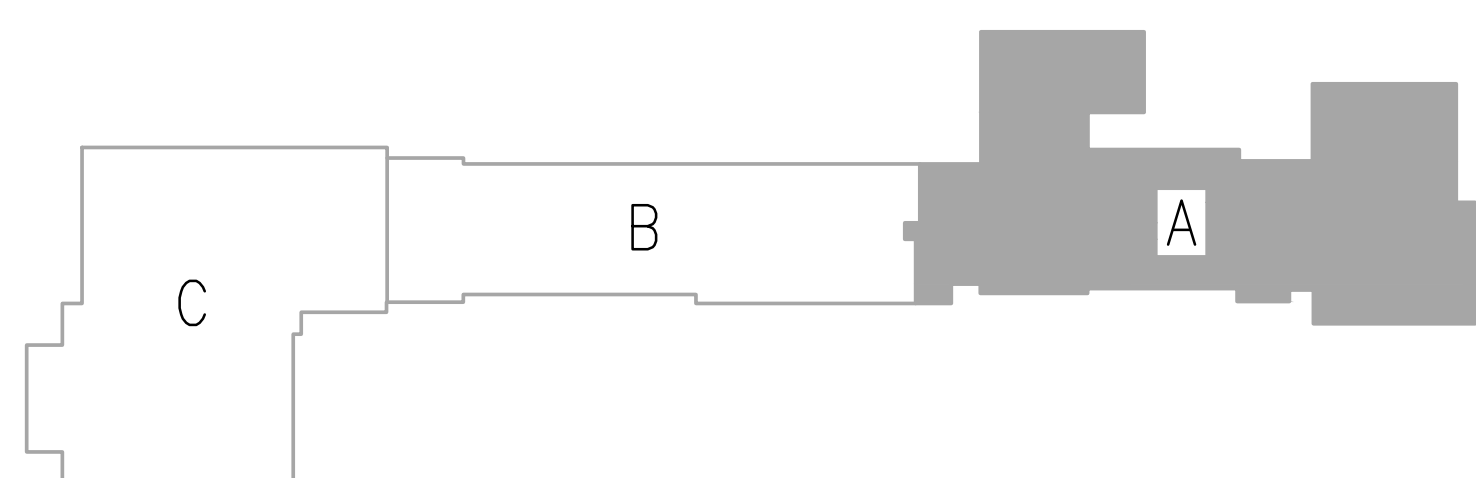
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DATE: 3/18/2022
DRAWN: MCB
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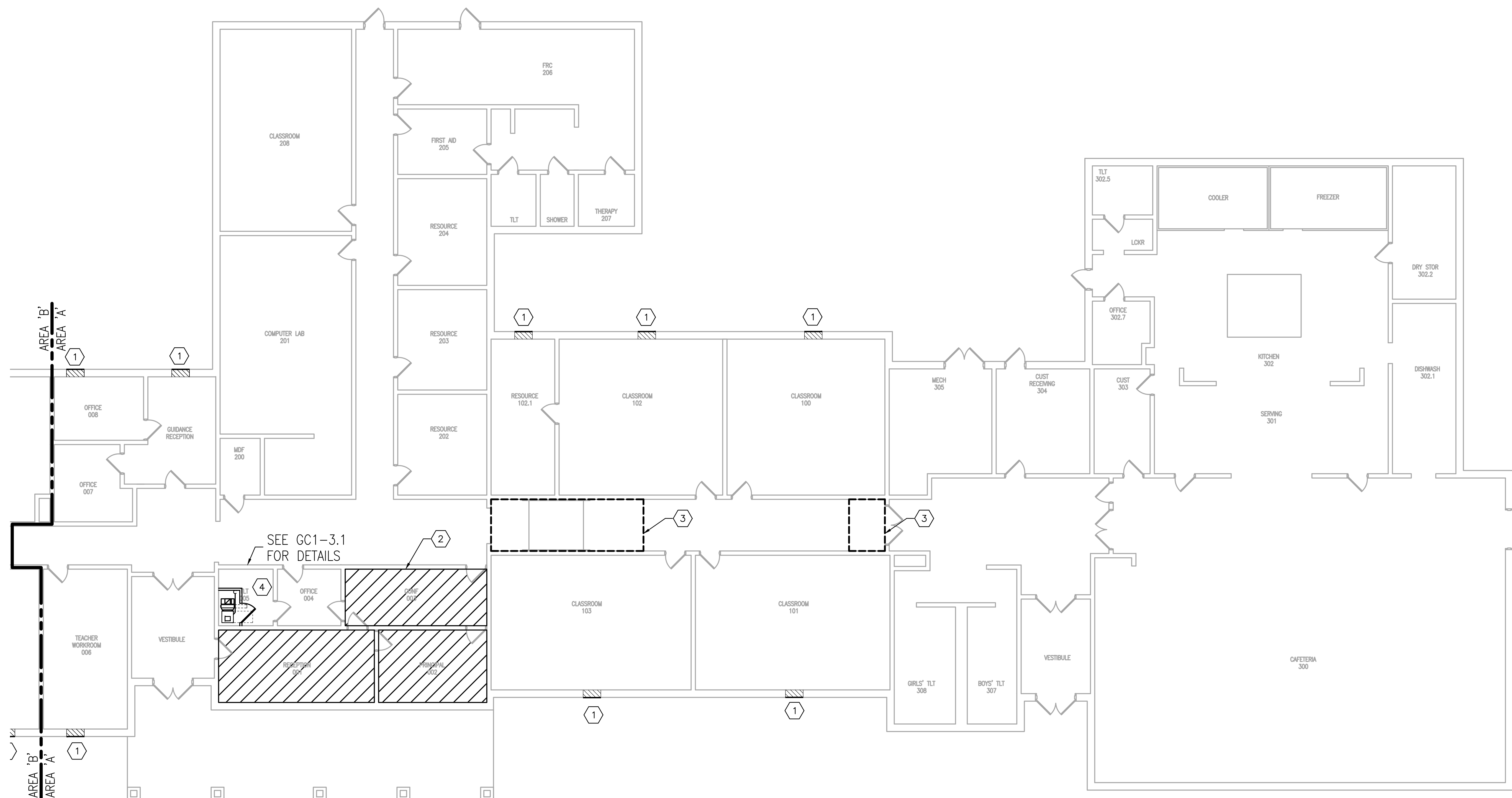
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KEY PLAN
NOT TO SCALE



GENERAL TRADES TAGGED NOTES:

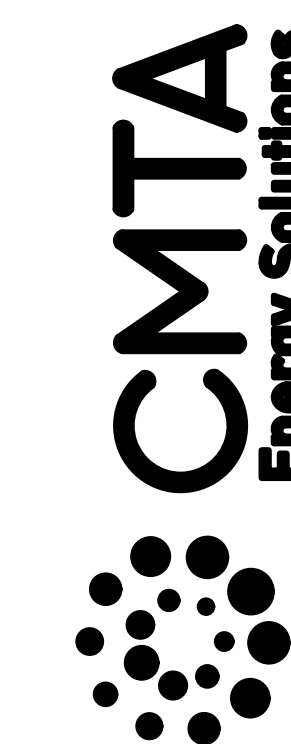
1. EXISTING HVAC EQUIPMENT AND SHEETMETAL TO LOUVER WILL BE COMPLETELY DEMOLISHED BY MECHANICAL CONTRACTOR. GENERAL TRADES CONTRACTOR TO INFILL REMAINING LOUVER WALL CAVITY AS SPECIFIED IN 'INFILL AT ABANDONED WALL LOUVER' DETAIL, INCLUDING WALL AND FLOOR PATCHING AND PAINTING FROM HVAC UNIT REMOVAL.
2. DEMO EXISTING AND INSTALL NEW ACOUSTICAL TILE GRID CEILING AT EXISTING ELEVATION ABOVE FINISHED FLOOR. MATCH EXISTING GRID LAYOUT. CEILING TO BE ARMSTRONG - FINE FISSURED, WHITE EDGE LAY-IN TILE (NRC 0.7), WHITE 1/2" EXPOSED TEE GRID, OR EQUIVALENT.
3. DEMOLISH EXISTING PLASTER CEILING ABOVE LAY-IN GRID CEILING TO ACCOMMODATE NEW MECHANICAL WORK. CONTRACTOR TO REMOVE AND DISPOSE OF PLASTER CEILING AND ALL DEBRIS. COORDINATE RELOCATION OF J-BOXES, PIPE HANGERS, ETC. WITH MECHANICAL AND ELECTRICAL CONTRACTORS
4. CONSTRUCT NEW 4" CLOSET WALL AS SHOWN. PROVIDE ALL FRAMING, DRYWALL, JOINT COMPOUND, ETC. AS REQUIRED TO COMPLETE. CONTRACTOR TO PROVIDE AND INSTALL NEW DOOR FOR ACCESS TO MECHANICAL EQUIPMENT - COORDINATE SELECTION WITH CMTA.



EUBANK ELEMENTARY SCHOOL - GENERAL TRADES PLAN AREA 'A'
Scale: 1/8" = 1'

NOT FOR CONSTRUCTION

9519 Civic Way, Suite 100
Prospect, KY 40059
T: 502.409.4062 F: 502.919.1521
MBrongers@CMTA.COM



PULASKI COUNTY SCHOOLS
GUARANTEED ENERGY SAVINGS CONTRACT
EUBANK ELEMENTARY SCHOOL
EUBANK, KENTUCKY
EUBANK ELEMENTARY SCHOOL - GENERAL TRADES

REVISIONS

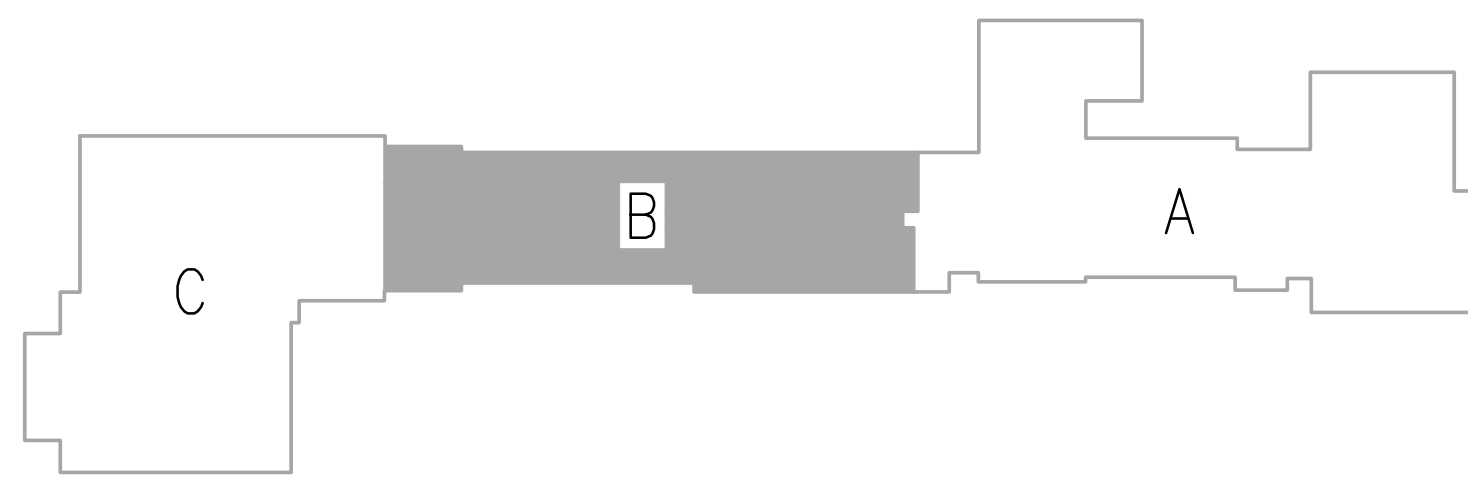
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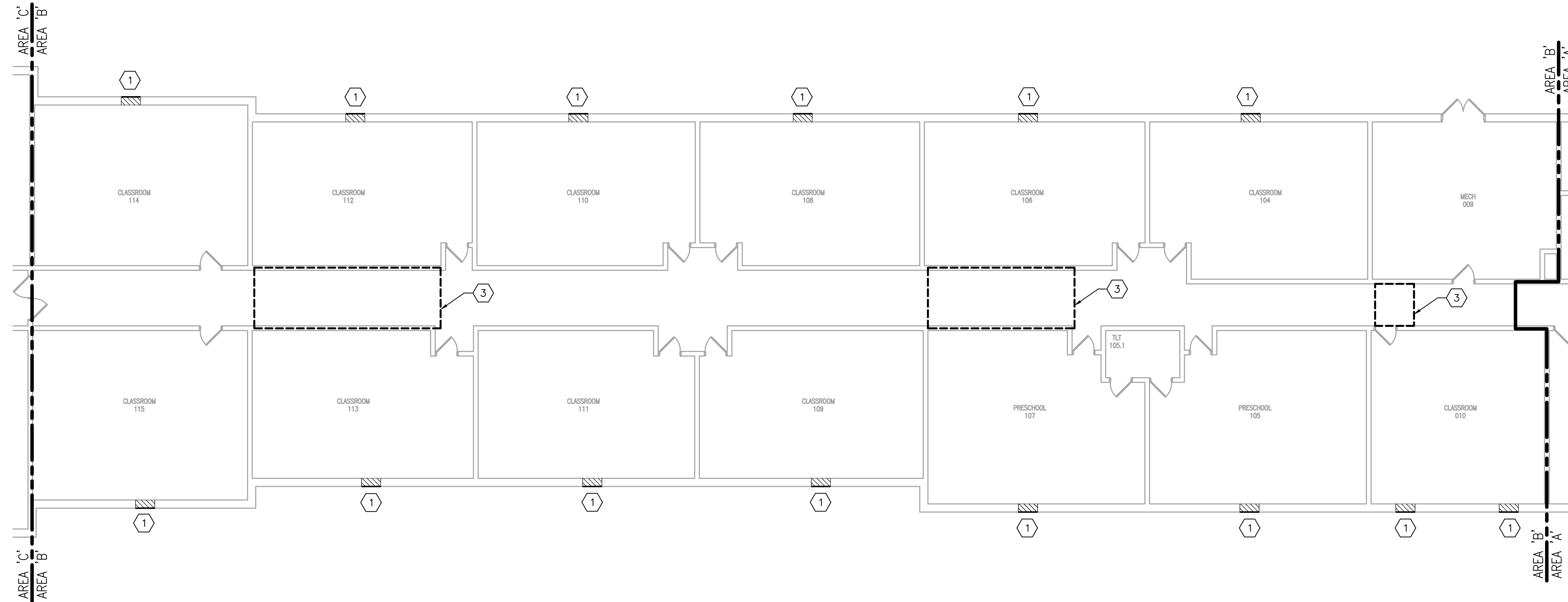
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KEY PLAN
NOT TO SCALE



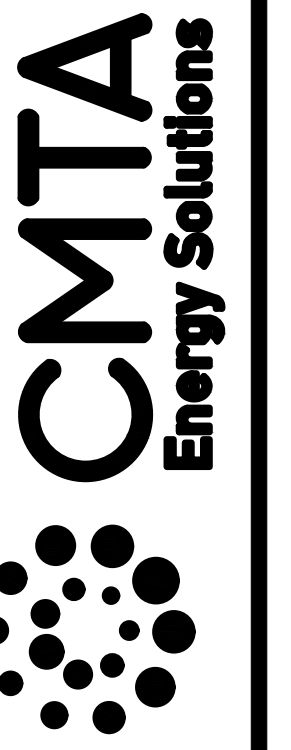
- GENERAL TRADES TAGGED NOTES:
- EXISTING HVAC EQUIPMENT AND SHEETMETAL TO LOUVER WILL BE COMPLETELY DEMOLISHED BY MECHANICAL CONTRACTOR. GENERAL TRADES CONTRACTOR TO INFILL REMAINING LOUVER WALL CAVITY AS SPECIFIED IN 'INFILL AT ABANDONED WALL LOUVER' DETAIL, INCLUDING WALL AND FLOOR PATCHING AND PAINTING FROM HVAC UNIT REMOVAL.
 - DEMO EXISTING AND INSTALL NEW ACOUSTICAL TILE GRID CEILING AT EXISTING ELEVATION ABOVE FINISHED FLOOR. MATCH EXISTING GRID LAYOUT. CEILING TO BE ARMSTRONG - FINE FISSURED, WHITE EDGE LAY-IN TILE (NRC 0.7), WHITE 1/2" EXPOSED TEE GRID, OR EQUIVALENT.
 - DEMOLISH EXISTING PLASTER CEILING ABOVE LAY-IN GRID CEILING TO ACCOMMODATE NEW MECHANICAL WORK. CONTRACTOR TO REMOVE AND DISPOSE OF PLASTER CEILING AND ALL DEBRIS. COORDINATE RELOCATION OF J-BOXES, PIPE HANGERS, ETC. WITH MECHANICAL AND ELECTRICAL CONTRACTORS
 - CONSTRUCT NEW 4" CLOSET WALL AS SHOWN. PROVIDE ALL FRAMING, DRYWALL, JOINT COMPOUND, ETC. AS REQUIRED TO COMPLETE. CONTRACTOR TO PROVIDE AND INSTALL NEW DOOR FOR ACCESS TO MECHANICAL EQUIPMENT - COORDINATE SELECTION WITH CMTA.



EUBANK ELEMENTARY SCHOOL - GENERAL TRADES PLAN AREA 'B'
Scale: 1/8" = 1'

NOT FOR
CONSTRUCTION

9519 Civic Way, Suite 100
Prospect, KY 40059
T. 502.409.4062 F. 502.919.1521
MBrongers@CMTA.COM



PULASKI COUNTY SCHOOLS
GUARANTEED ENERGY SAVINGS CONTRACT
EUBANK ELEMENTARY SCHOOL
EUBANK, KENTUCKY
EUBANK ELEMENTARY SCHOOL - GENERAL TRADES

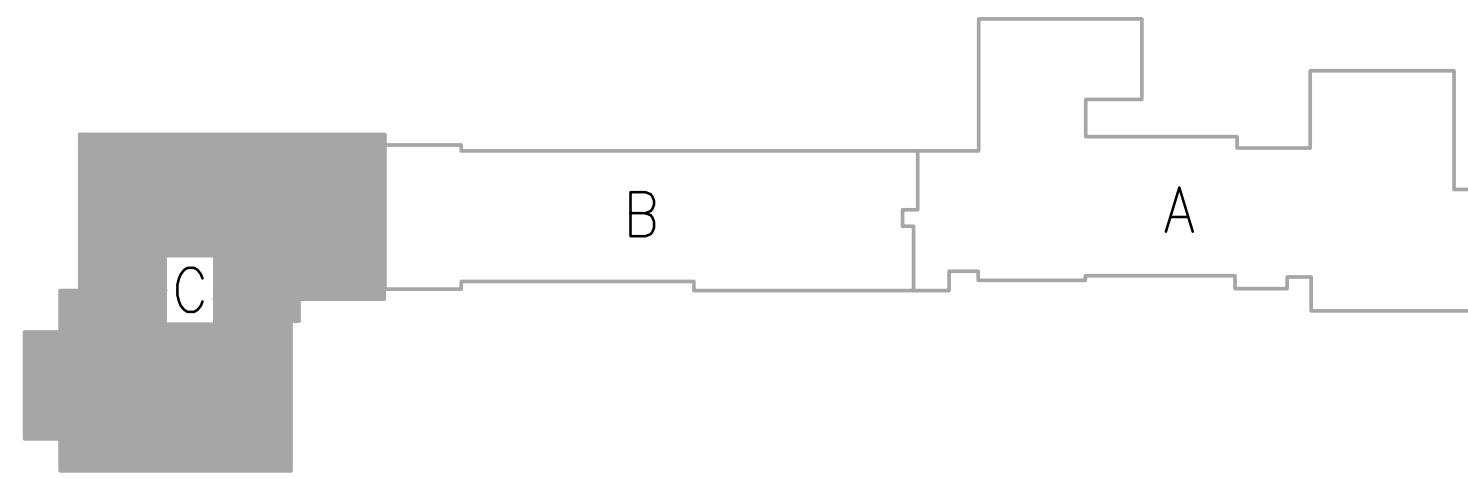
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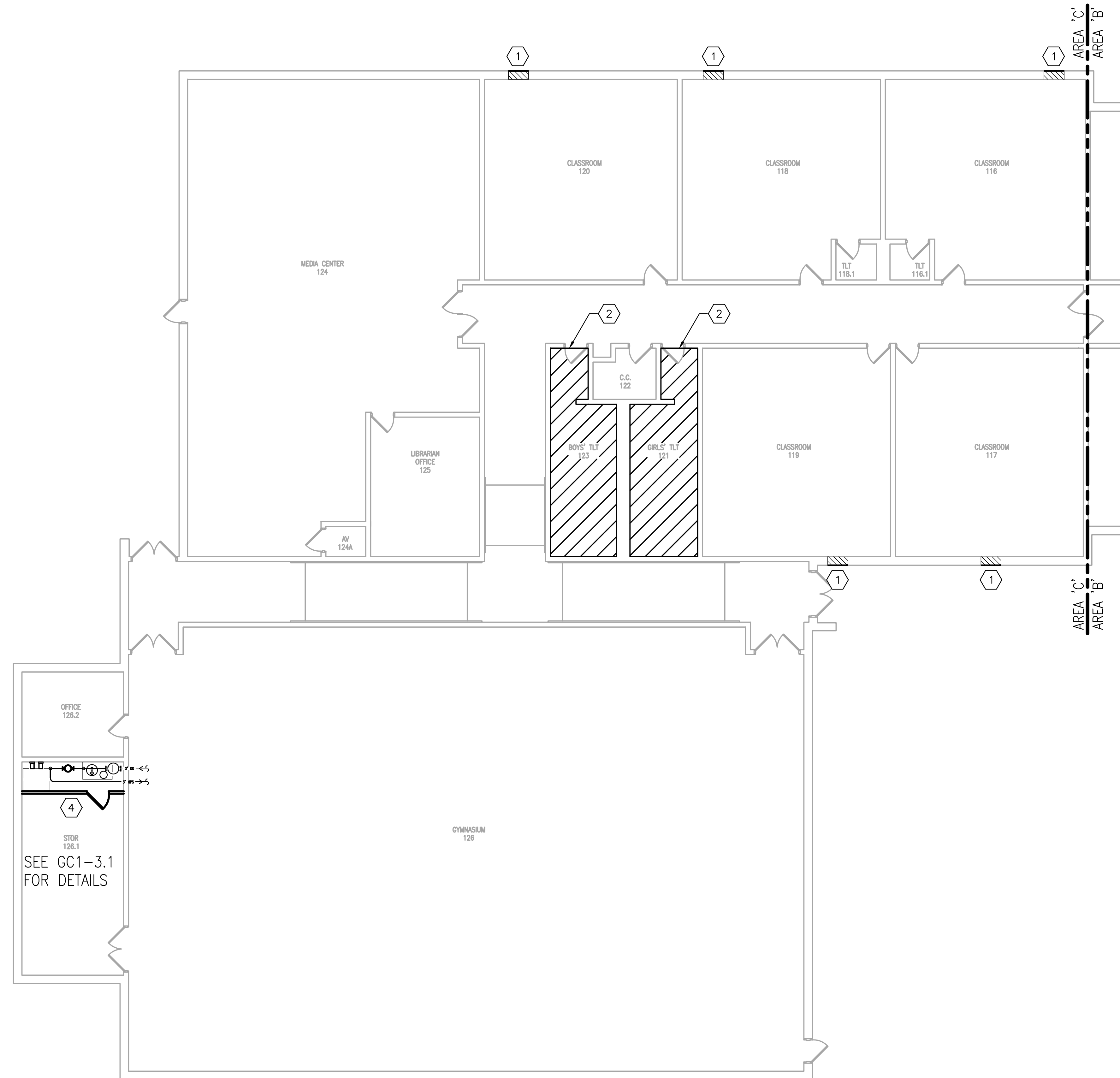
GC1-
2.2

KEY PLAN
NOT TO SCALE



GENERAL TRADES TAGGED NOTES:

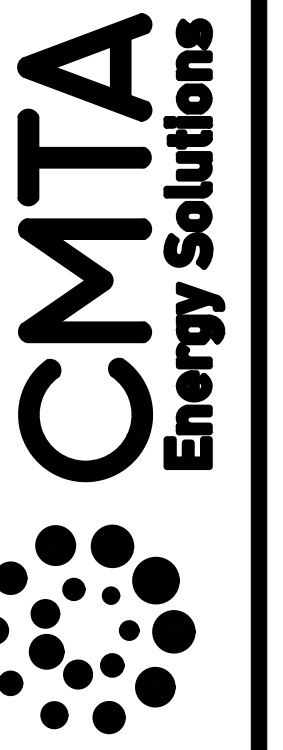
1. EXISTING HVAC EQUIPMENT AND SHEETMETAL TO LOUVER WILL BE COMPLETELY DEMOLISHED BY MECHANICAL CONTRACTOR. GENERAL TRADES CONTRACTOR TO INFILL REMAINING LOUVER WALL CAVITY AS SPECIFIED IN 'INFILL AT ABANDONED WALL LOUVER' DETAIL, INCLUDING WALL AND FLOOR PATCHING AND PAINTING FROM HVAC UNIT REMOVAL.
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EUBANK ELEMENTARY SCHOOL - GENERAL TRADES PLAN AREA 'C'
Scale: 1/8" = 1'

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CONSTRUCTION

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T. 502.409.4062 F. 502.919.1521
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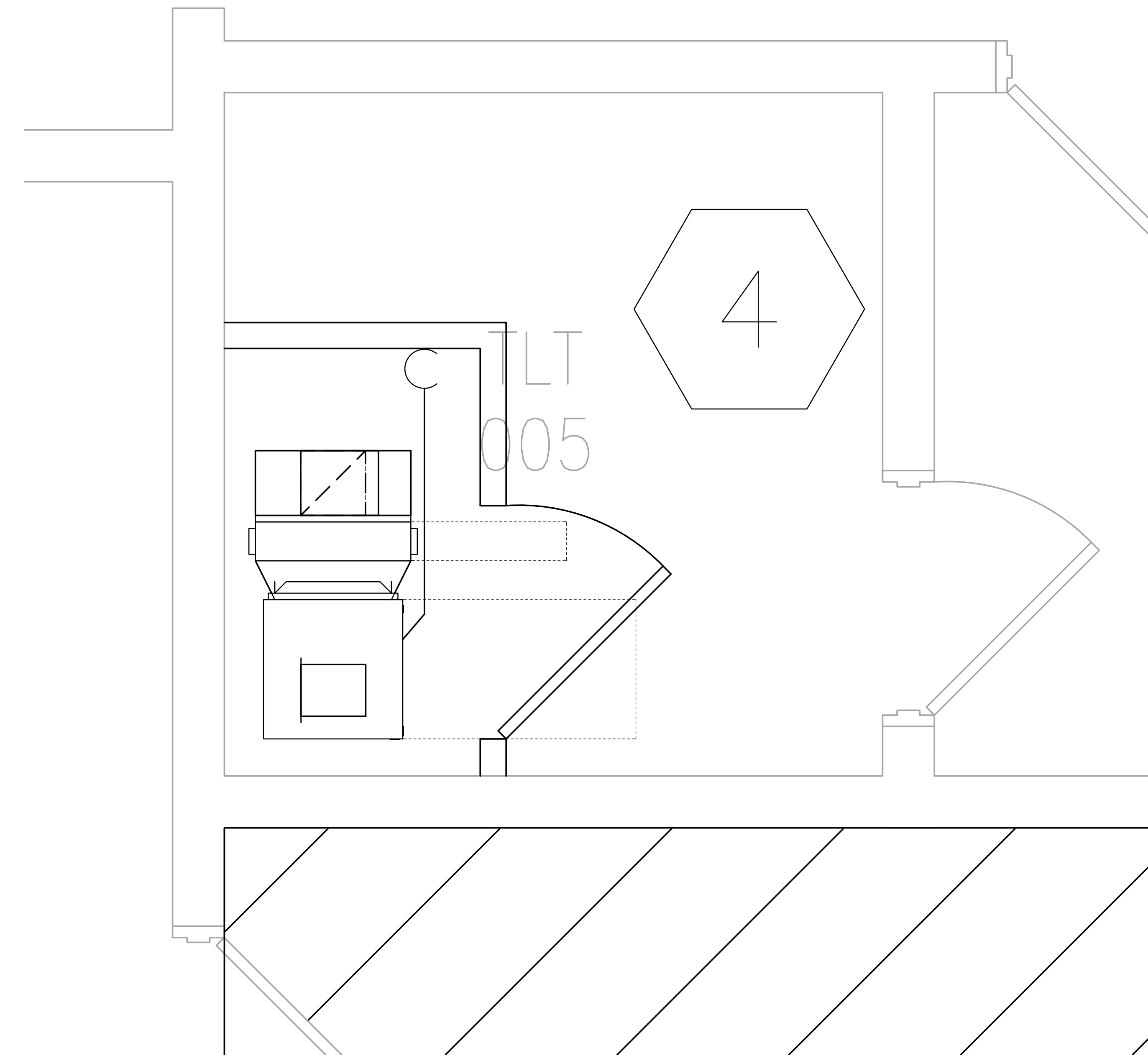
PULASKI COUNTY SCHOOLS
GUARANTEED ENERGY SAVINGS CONTRACT
EUBANK ELEMENTARY SCHOOL
EUBANK, KENTUCKY
EUBANK ELEMENTARY SCHOOL - GENERAL TRADES

REVISIONS

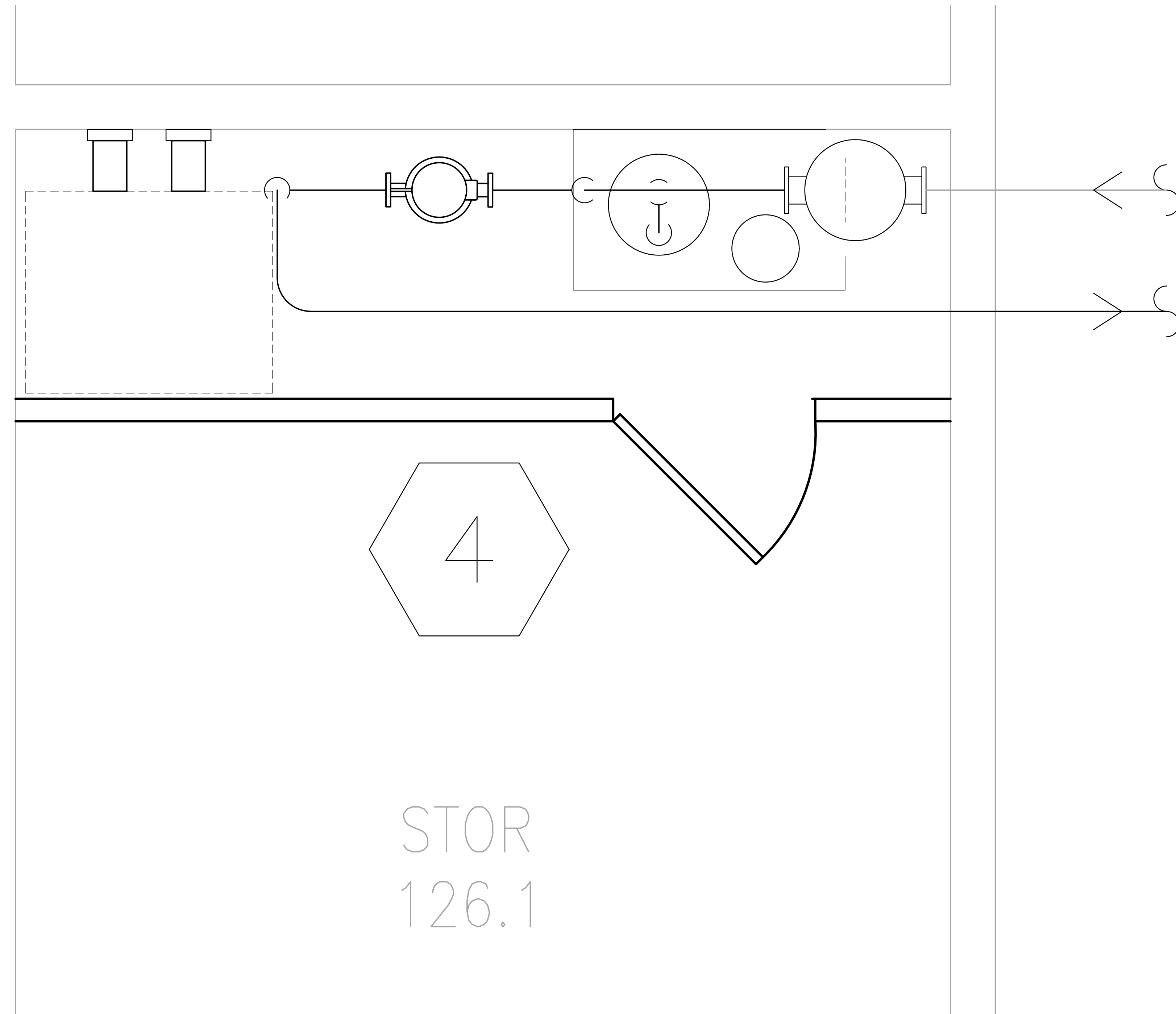
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EUBANK ELEMENTARY SCHOOL - NEW MECHANICAL CLOSET
 Scale: 1" = 1'



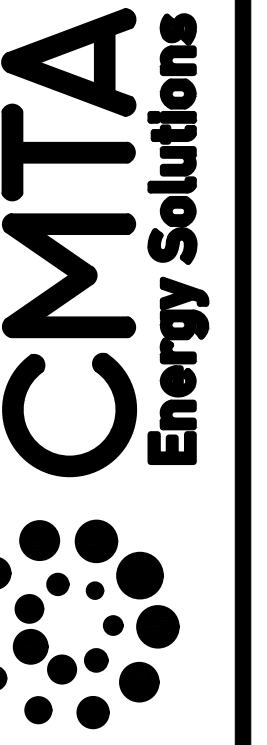
EUBANK ELEMENTARY SCHOOL - GYM PUMPING STATION
 Scale: 1" = 1'

GENERAL TRADES TAGGED NOTES:

1. EXISTING HVAC EQUIPMENT AND SHEETMETAL TO LOUVER WILL BE COMPLETELY DEMOLISHED BY MECHANICAL CONTRACTOR. GENERAL TRADES CONTRACTOR TO INFILL REMAINING LOUVER WALL CAVITY AS SPECIFIED IN 'INFILL AT ABANDONED WALL LOUVER' DETAIL, INCLUDING WALL AND FLOOR PATCHING AND PAINTING FROM HVAC UNIT REMOVAL.
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PULASKI COUNTY SCHOOLS
 GUARANTEED ENERGY SAVINGS CONTRACT
 EUBANK ELEMENTARY SCHOOL
 EUBANK, KENTUCKY

EUBANK ELEMENTARY SCHOOL - GENERAL TRADES

REVISIONS

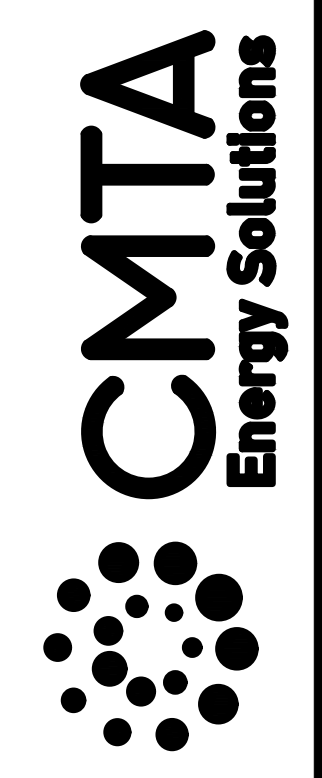
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CONSTRUCTION

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MBrongers@cmta.com



OAK HILL ELEMENTARY SCHOOL

1755 WTLO ROAD, SOMERSET, KY 42503 GENERAL TRADES DRAWINGS

General Notes

THE GENERAL TRADES CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING:

1. PROVIDE ALL LABOR AND ALL MATERIALS REQUIRED TO COMPLETE SCOPE OF WORK.
2. COMPLETE ALL INSTALLATION WORK DURING HOURS COORDINATED WITH THE OWNER'S CLASS AND STAFF OCCUPANCY SCHEDULES. CONTRACTOR SHALL PROVIDE AN OVERALL PROJECT SCHEDULE AND SHALL COORDINATE A BI-WEEKLY TASK SCHEDULE WITH THE CMTA CONSTRUCTION MANAGER TO ALLOW FOR APPROPRIATE COORDINATION WITH THE OWNER.
3. PROVIDE ALL LADDERS, LIFTS AND SCAFFOLDS REQUIRED TO ACCESS WORK AREAS.
4. PROVIDE ALL REQUIRED EQUIPMENT TO PERFORM WORK.
5. MAINTAIN SAFE WORK HABITS AND UTILIZE ALL NECESSARY SAFETY EQUIPMENT.
6. CLEAN ALL WORK AREAS AFTER INSTALLATION WORK IS COMPLETE. ALL CONSTRUCTION DEBRIS SHALL BE COMPLETELY REMOVED AND CLEANED BY CONTRACTOR.
7. PROVIDE ON-SITE DUMPSTER AS NECESSARY. CONSTRUCTION DEBRIS NOT TO BE PLACED IN OWNER'S DUMPSTERS OR TRASH CANS.
8. PROVIDE ON-SITE PORTABLE TOILETS AS NECESSARY.
9. REFER TO MECHANICAL PLANS FOR FULL EXTENT OF MECHANICAL SCOPE AS IT RELATES TO THE GENERAL TRADES SCOPE.
10. PROVIDE ALL NECESSARY MATERIAL AND LABOR INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING AS REQUIRED TO COMPLETE THE SCOPE OF WORK PER DRAWINGS AND SPECIFICATIONS:
 - a. PERMIT AND FEES
 - b. DEMOLITION AND INSTALLATION LABOR
 - c. SHEET METAL
 - d. INSULATION
 - e. CEILING TILE AND T-GRID
 - f. DRYWALL, JOINT COMPOUND, FRAMING, BLOCK, ETC.
 - g. ALL OTHER MISCELLANEOUS REQUIRED MATERIALS TO COMPLETE THE SCOPE OF WORK

PULASKI COUNTY SCHOOLS
GUARANTEED ENERGY SAVINGS CONTRACT
OAK HILL ELEMENTARY SCHOOL
SOMERSET, KENTUCKY

OAK HILL ELEMENTARY SCHOOL - GENERAL TRADES

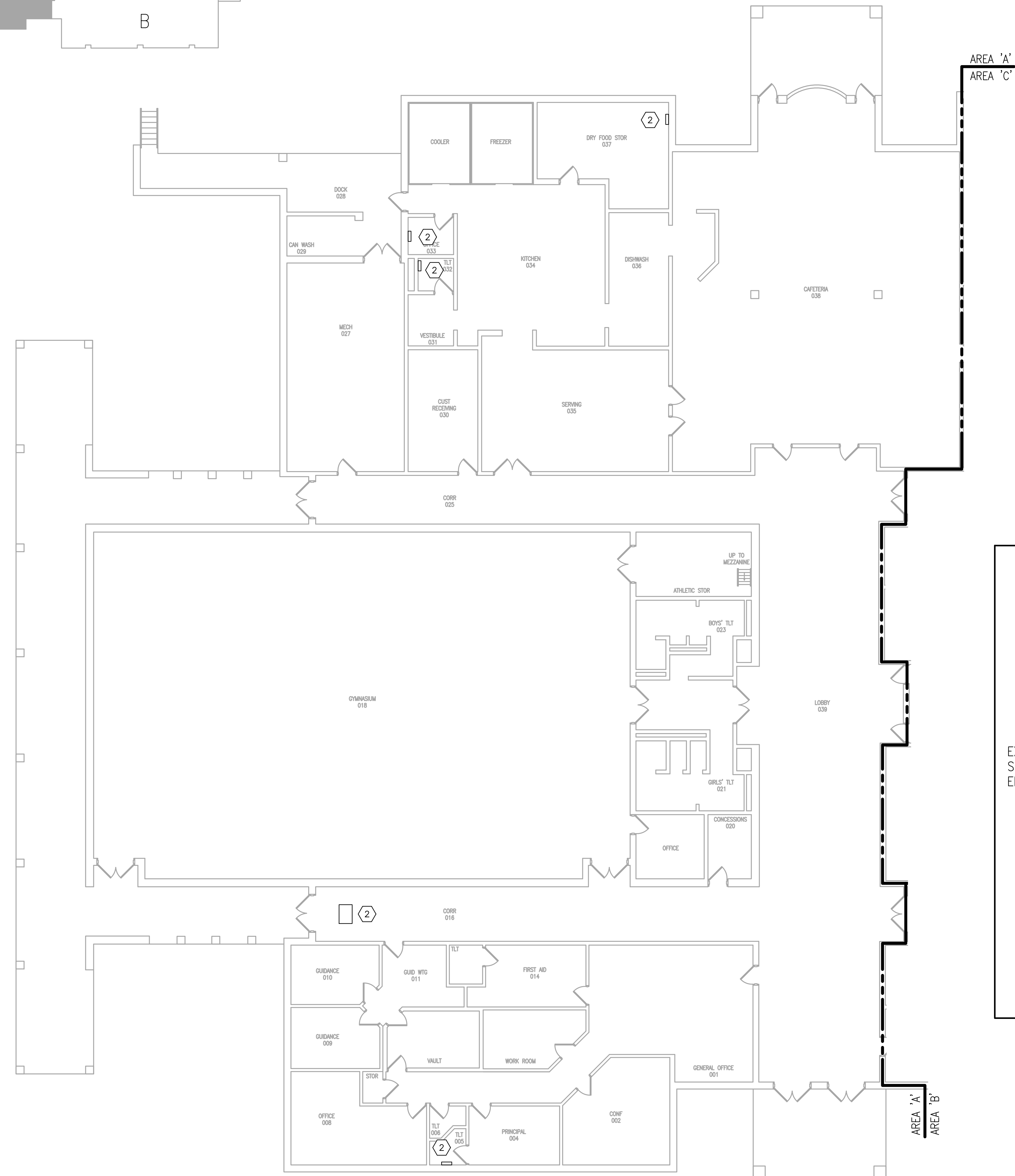
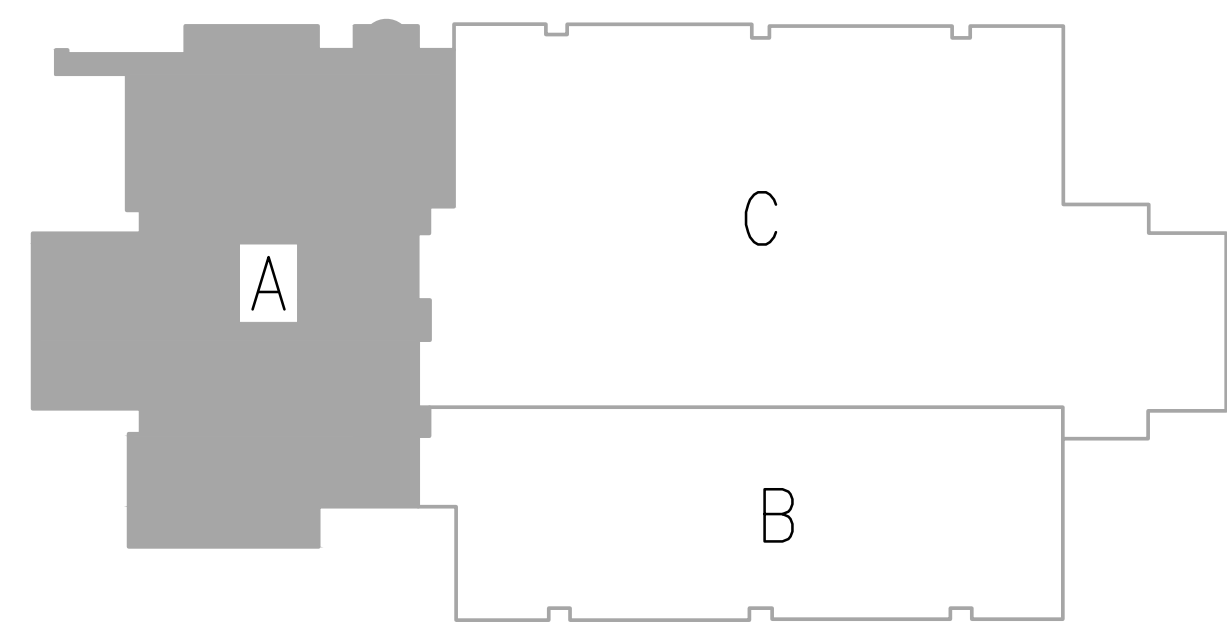
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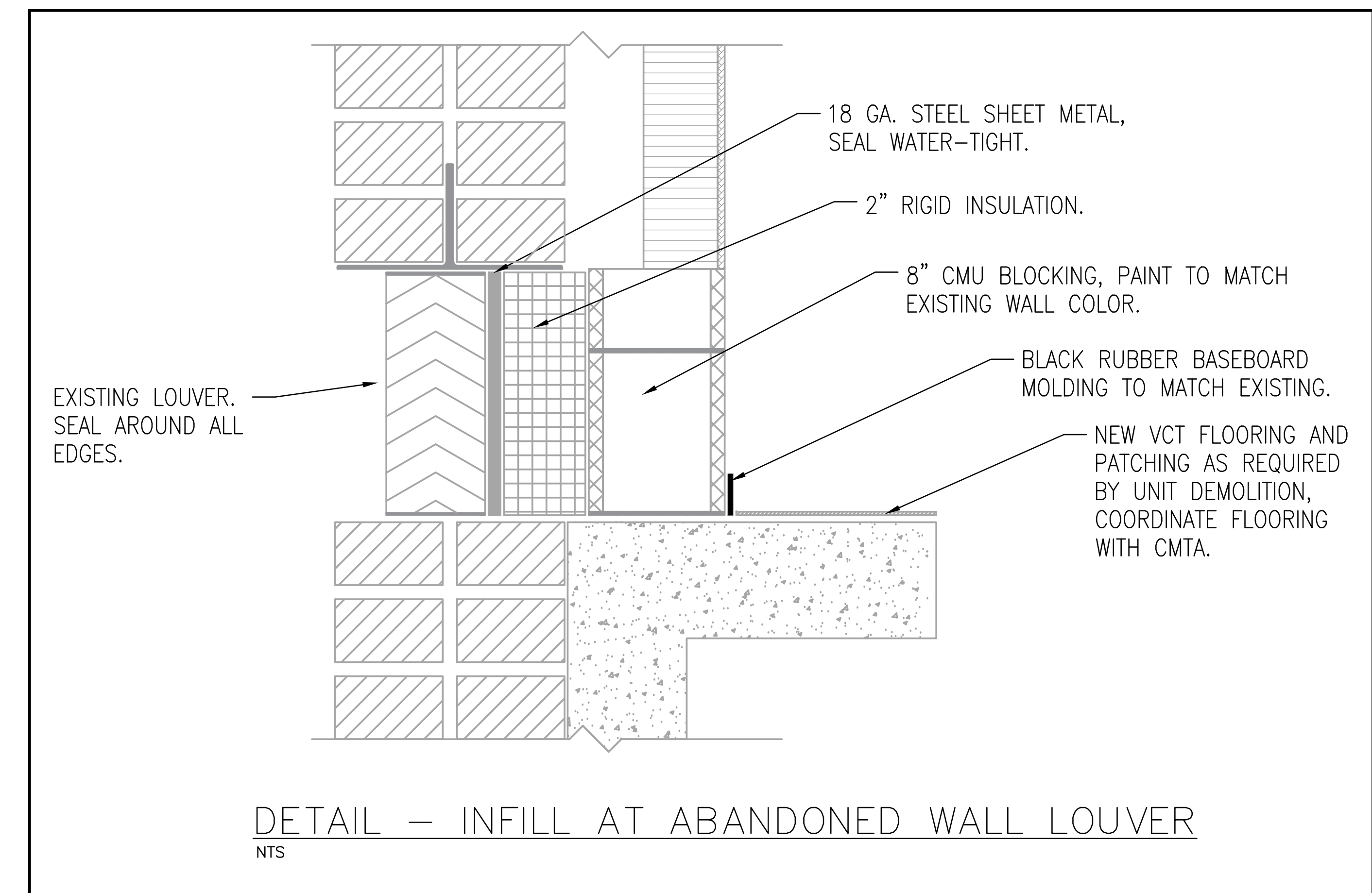
KEY PLAN
NOT TO SCALE



OAK HILL ELEMENTARY SCHOOL - GENERAL TRADES AREA 'A'
Scale: 1/8" = 1'

GENERAL TRADES TAGGED NOTES:

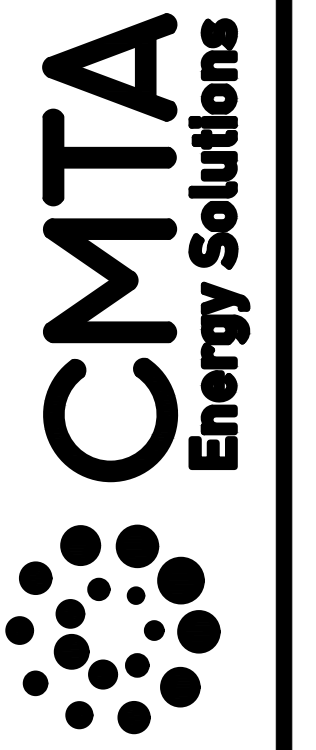
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4. REMOVE AND RELOCATE SHELVES AND TACK BOARDS AS REQUIRED FOR INSTALLATION OF NEW MECHANICAL EQUIPMENT - COORDINATE WITH CMTA FOR NEW HANGING LOCATION. PATCH AND PAINT AFTER REMOVAL.



DETAIL - INFILL AT ABANDONED WALL LOUVER
NTS

NOT FOR
CONSTRUCTION

9519 Civic Way, Ste. 100
Prospect, KY 40059
T. 502.409.4062 F. 502.919.521
MBrongers@cmta.com



PULASKI COUNTY SCHOOLS
GUARANTEED ENERGY SAVINGS CONTRACT
OAK HILL ELEMENTARY SCHOOL
SOMERSET, KENTUCKY
OAK HILL ELEMENTARY SCHOOL - GENERAL TRADES

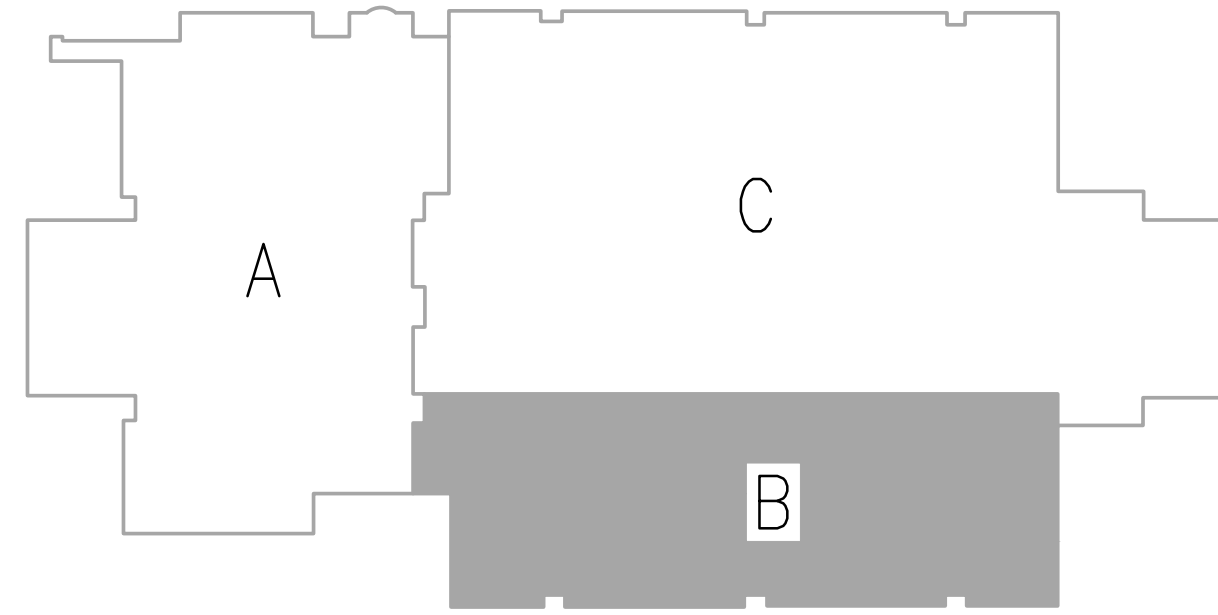
REVISIONS

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KEY PLAN
NOT TO SCALE

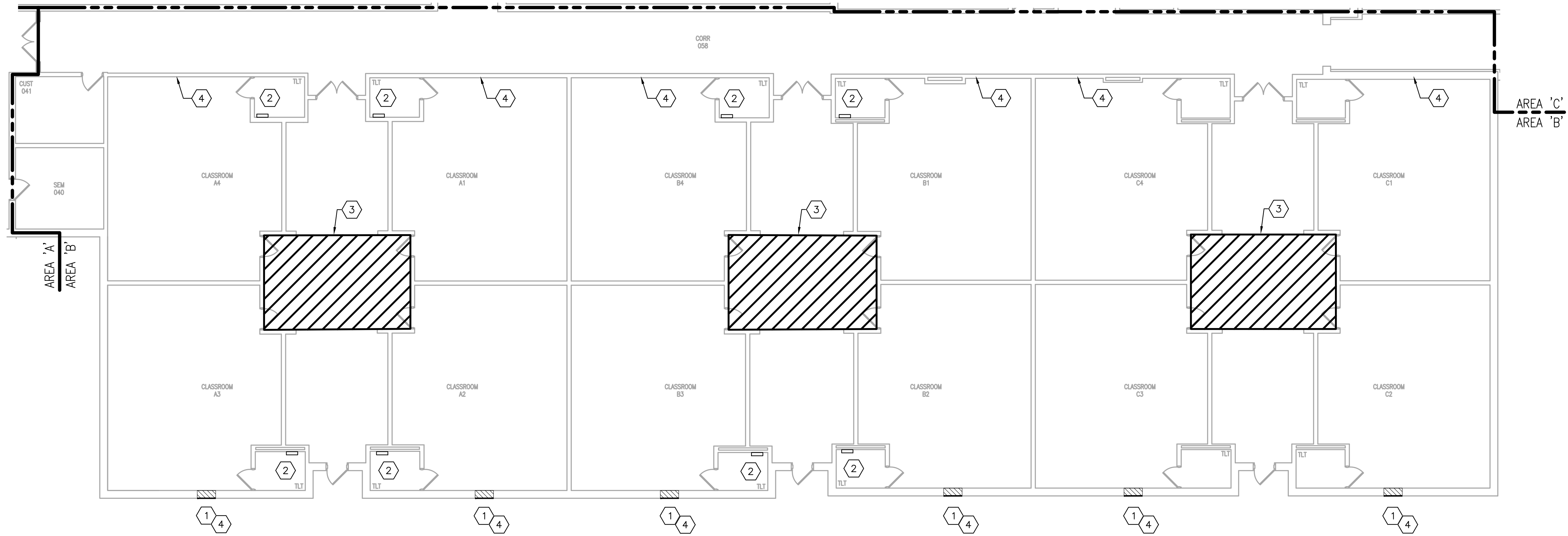
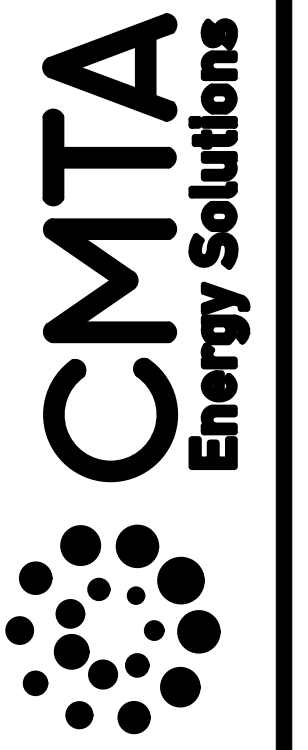


GENERAL TRADES TAGGED NOTES:

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NOT FOR
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OAK HILL ELEMENTARY SCHOOL - GENERAL TRADES AREA 'B'
Scale: 1/8" = 1'

PULASKI COUNTY SCHOOLS
GUARANTEED ENERGY SAVINGS CONTRACT
OAK HILL ELEMENTARY SCHOOL
SOMERSET, KENTUCKY

OAK HILL ELEMENTARY SCHOOL - GENERAL TRADES

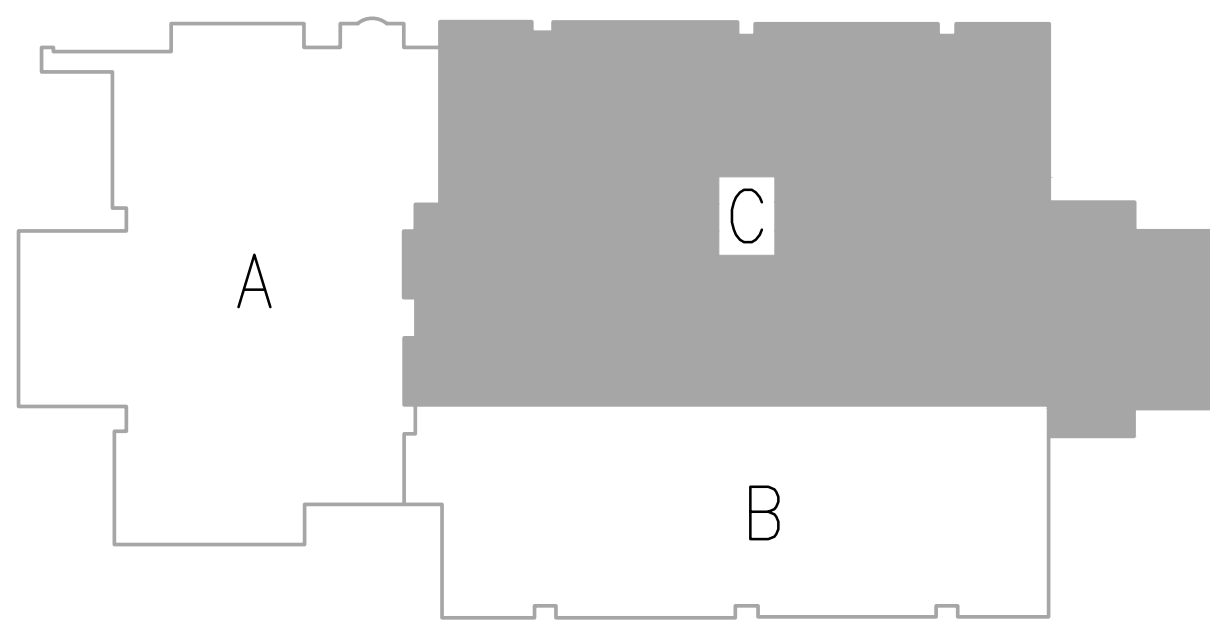
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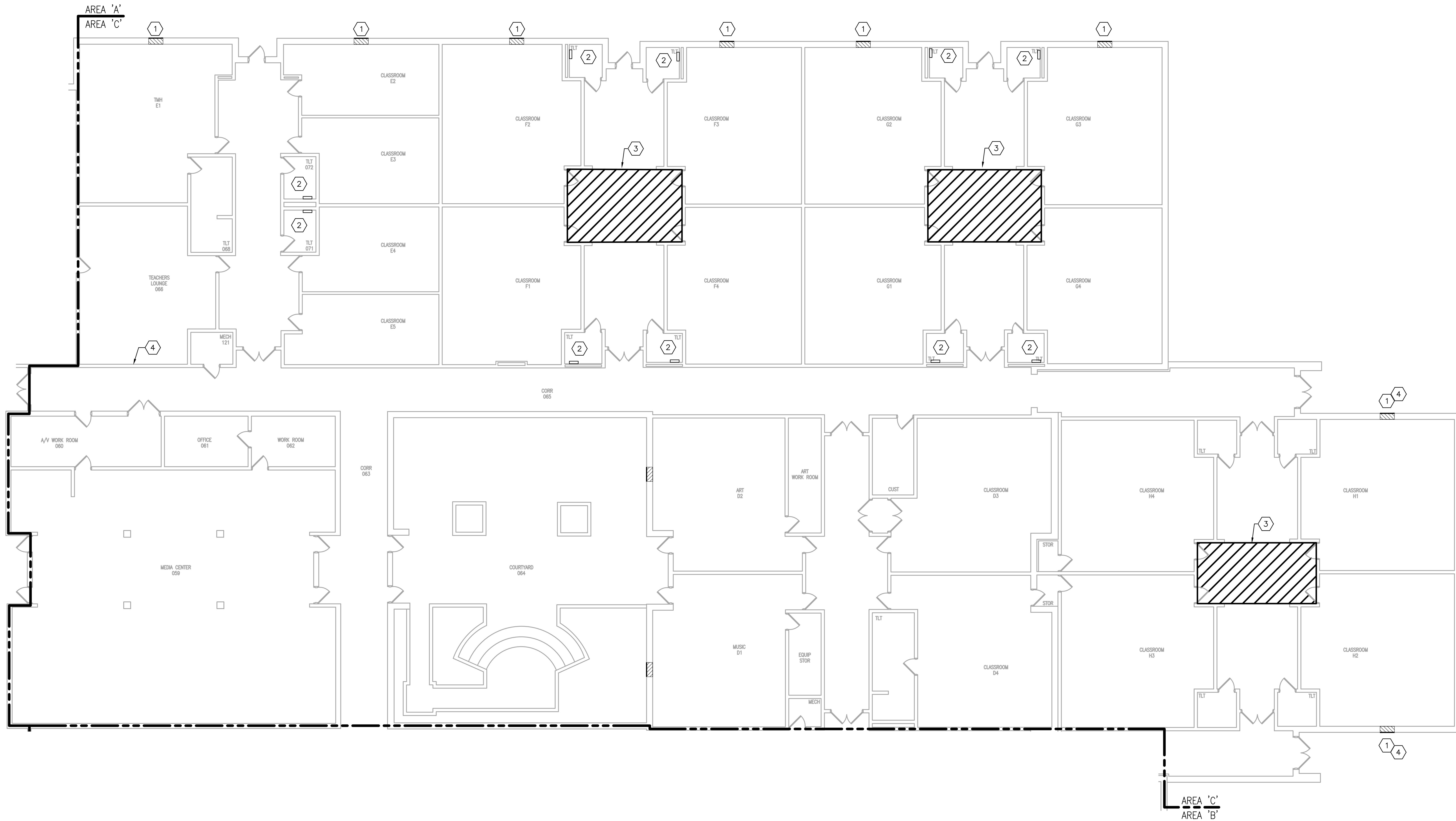
GC2-
2.2

KEY PLAN
NOT TO SCALE



GENERAL TRADES TAGGED NOTES: (X)

1. EXISTING HVAC EQUIPMENT AND SHEETMETAL TO LOUVER WILL BE COMPLETELY DEMOLISHED BY MECHANICAL CONTRACTOR. GENERAL TRADES CONTRACTOR TO INFILL REMAINING LOUVER WALL CAVITY AS SPECIFIED IN 'INFILL AT ABANDONED WALL LOUVER' DETAIL, INCLUDING WALL AND FLOOR PATCHING AND PAINTING FROM HVAC UNIT REMOVAL.
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4. REMOVE AND RELOCATE SHELVES AND TACK BOARDS AS REQUIRED FOR INSTALLATION OF NEW MECHANICAL EQUIPMENT - COORDINATE WITH CMTA FOR NEW HANGING LOCATION. PATCH AND PAINT AFTER REMOVAL.



OAK HILL ELEMENTARY SCHOOL - GENERAL TRADES AREA 'C'
Scale: 1/8" = 1'

NOT FOR CONSTRUCTION

9519 Civic Way, Ste. 100
Prospect, KY 40059
T. 502.409.4062 F. 502.919.521
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PULASKI COUNTY SCHOOLS
GUARANTEED ENERGY SAVINGS CONTRACT
OAK HILL ELEMENTARY SCHOOL
SOMERSET, KENTUCKY
OAK HILL ELEMENTARY SCHOOL - GENERAL TRADES

REVISIONS

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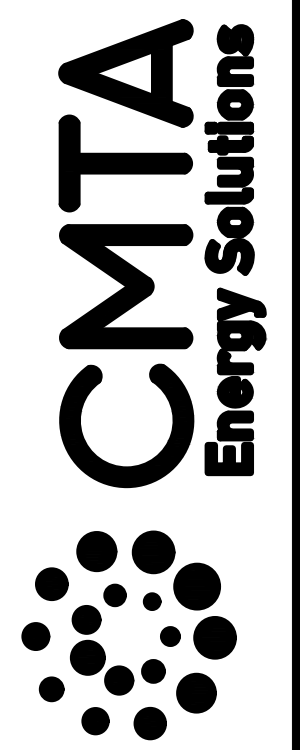
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GC2-
2.3

NOT FOR
CONSTRUCTION

9519 Civic Way, Suite 100
Prospect, KY 40069
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MBrongers@CMTA.COM



NANCY ELEMENTARY SCHOOL

240 KY-196, NANCY, KENTUCKY 42544 GENERAL TRADES DRAWINGS

General Notes

THE GENERAL TRADES CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING:

1. PROVIDE ALL LABOR AND ALL MATERIALS REQUIRED TO COMPLETE SCOPE OF WORK.
2. COMPLETE ALL INSTALLATION WORK DURING HOURS COORDINATED WITH THE OWNER'S CLASS AND STAFF OCCUPANCY SCHEDULES. CONTRACTOR SHALL PROVIDE AN OVERALL PROJECT SCHEDULE AND SHALL COORDINATE A BI-WEEKLY TASK SCHEDULE WITH THE CMTA CONSTRUCTION MANAGER TO ALLOW FOR APPROPRIATE COORDINATION WITH THE OWNER.
3. PROVIDE ALL LADDERS, LIFTS AND SCAFFOLDS REQUIRED TO ACCESS WORK AREAS.
4. PROVIDE ALL REQUIRED EQUIPMENT TO PERFORM WORK.
5. MAINTAIN SAFE WORK HABITS AND UTILIZE ALL NECESSARY SAFETY EQUIPMENT.
6. CLEAN ALL WORK AREAS AFTER INSTALLATION WORK IS COMPLETE. ALL CONSTRUCTION DEBRIS SHALL BE COMPLETELY REMOVED AND CLEANED BY CONTRACTOR.
7. PROVIDE ON-SITE DUMPSTER AS NECESSARY. CONSTRUCTION DEBRIS NOT TO BE PLACED IN OWNER'S DUMPSTERS OR TRASH CANS.
8. PROVIDE ON-SITE PORTABLE TOILETS AS NECESSARY.
9. REFER TO MECHANICAL PLANS FOR FULL EXTENT OF MECHANICAL SCOPE AS IT RELATES TO THE GENERAL TRADES SCOPE.
10. PROVIDE ALL NECESSARY MATERIAL AND LABOR INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING AS REQUIRED TO COMPLETE THE SCOPE OF WORK PER DRAWINGS AND SPECIFICATIONS:
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 - c. SHEET METAL
 - d. INSULATION
 - e. CEILING TILE AND T-GRID
 - f. DRYWALL, JOINT COMPOUND, FRAMING, BLOCK, ETC.
 - g. ALL OTHER MISCELLANEOUS REQUIRED MATERIALS TO COMPLETE THE SCOPE OF WORK

PULASKI COUNTY SCHOOLS
GUARANTEED ENERGY SAVINGS CONTRACT
NANCY ELEMENTARY SCHOOL
NANCY, KENTUCKY

NANCY ELEMENTARY SCHOOL - GENERAL TRADES

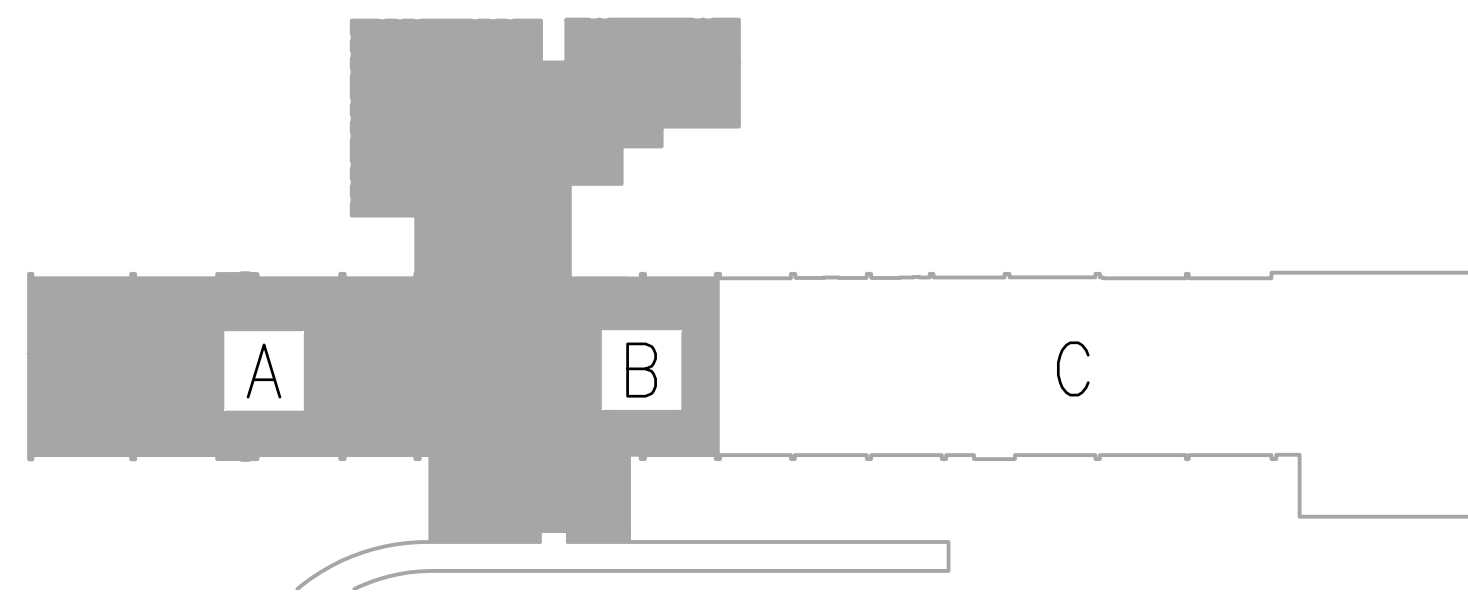
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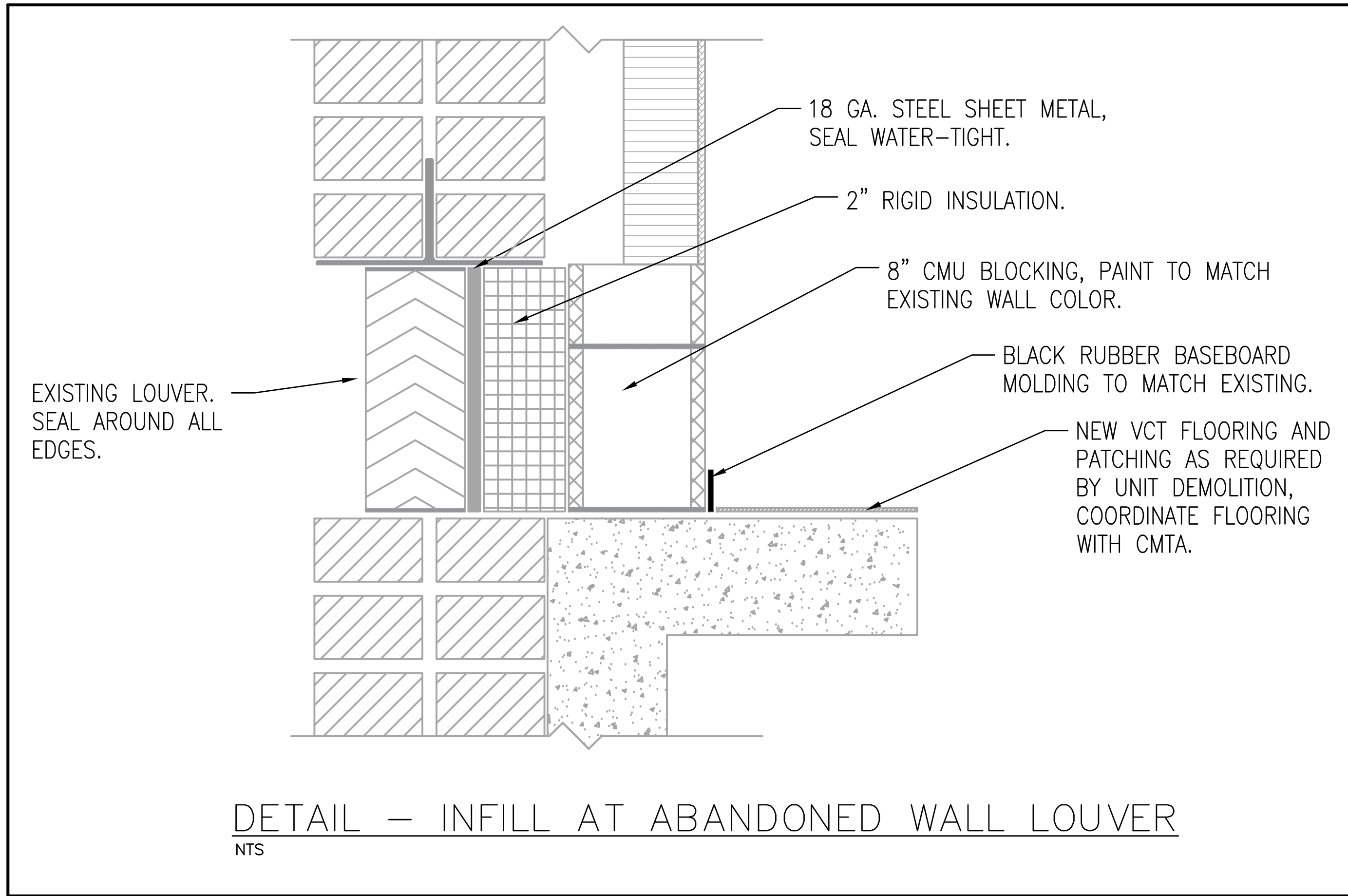
KEY PLAN
NOT TO SCALE



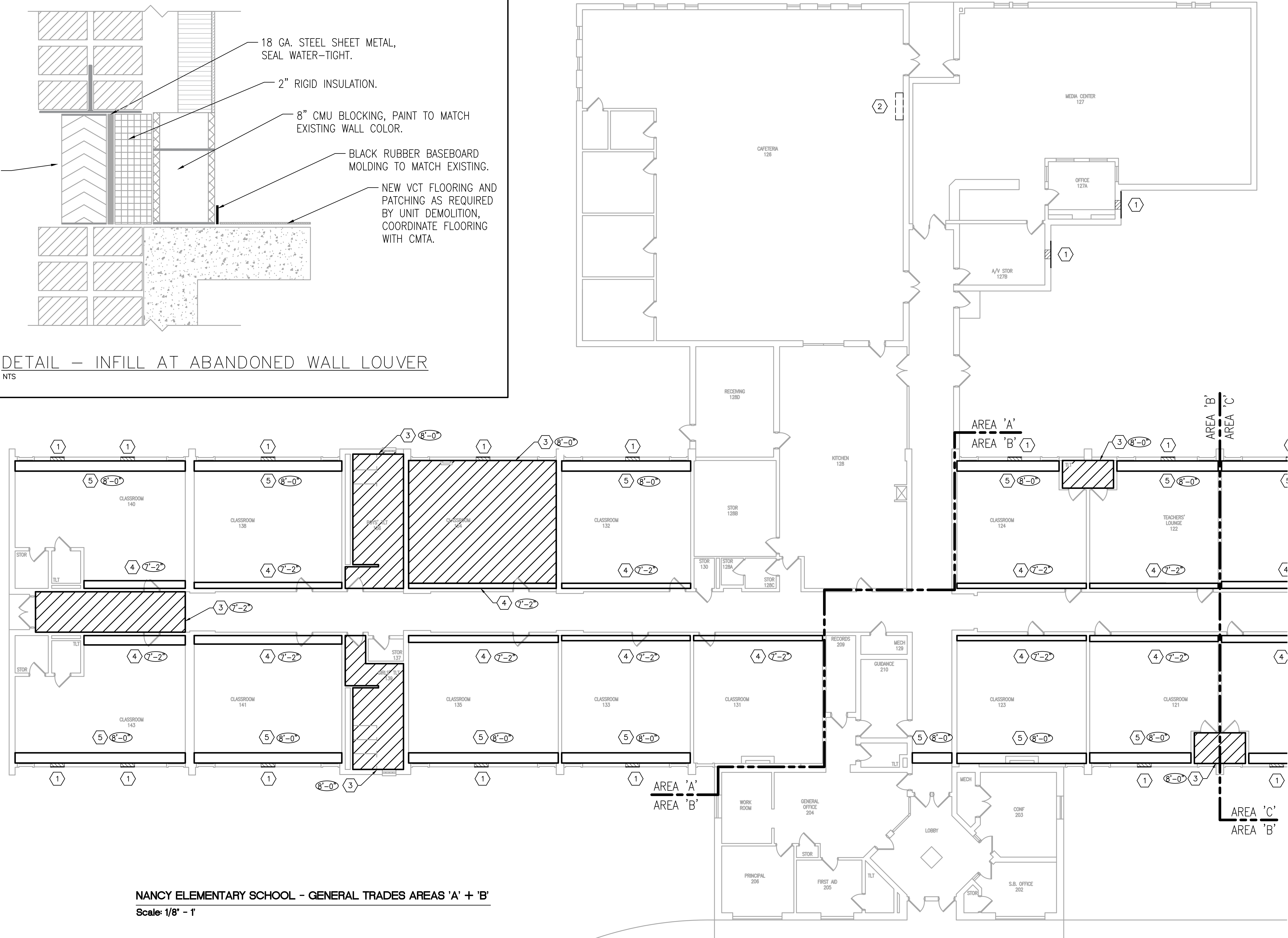
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- DEMO EXISTING AND INSTALL NEW ACOUSTICAL TILE GRID CEILING AT ELEVATION ABOVE FINISHED FLOOR NOTED ON PLAN. MATCH EXISTING GRID LAYOUT. CEILING TO BE ARMSTRONG - FINE FISSURED, WHITE EDGE LAY-IN TILE (NRC 0.7), WHITE 1/8" EXPOSED TEE GRID, OR EQUIVALENT.
- SOFFITS IN CLASSROOMS AT CORRIDOR WALLS - BOTTOM OF SOFFIT AT 7'-2" ABOVE FINISHED FLOOR (MATCH HEIGHT TO TOP OF DOOR FRAME WHERE APPLICABLE) AND WIDTH AS REQUIRED TO INSTALL DUCTWORK (COORDINATE WITH CMTA AND MECHANICAL CONTRACTOR). REWORK/MODIFY CEILING TEE AS REQUIRED FOR ACOUSTICAL CEILING. BOTTOM OF SOFFIT TO BE CEILING TILE GRID CONSTRUCTION TO ALLOW FOR ACCESS, VERTICAL SIDE OF SOFFIT TO BE DRYWALL CONSTRUCTION. REMOVE AND RELOCATE CABINETS, SHELVES, AND TACK BOARDS AS REQUIRED FOR INSTALLATION OF SOFFIT - COORDINATE WITH CMTA FOR NEW HANGING LOCATION. PATCH AND PAINT AFTER REMOVAL.
- SOFFITS IN CLASSROOMS AT EXTERIOR WALLS - BOTTOM OF SOFFIT AT 8'-0" ABOVE FINISHED FLOOR, 2'-0" WIDTH. BOTTOM OF SOFFIT TO BE CEILING TILE GRID CONSTRUCTION TO ALLOW FOR ACCESS, VERTICAL SIDE OF SOFFIT TO BE DRYWALL CONSTRUCTION.

NOT FOR CONSTRUCTION

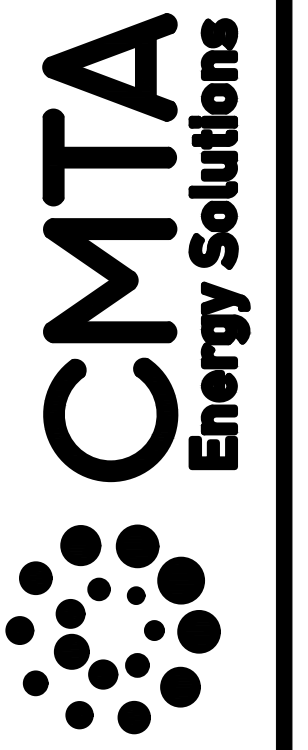


DETAIL - INFILL AT ABANDONED WALL LOUVER
NTS



NANCY ELEMENTARY SCHOOL - GENERAL TRADES AREAS 'A' + 'B'
Scale: 1/8" = 1'

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PULASKI COUNTY SCHOOLS
GUARANTEED ENERGY SAVINGS CONTRACT
NANCY ELEMENTARY SCHOOL
NANCY, KENTUCKY
NANCY ELEMENTARY SCHOOL - GENERAL TRADES

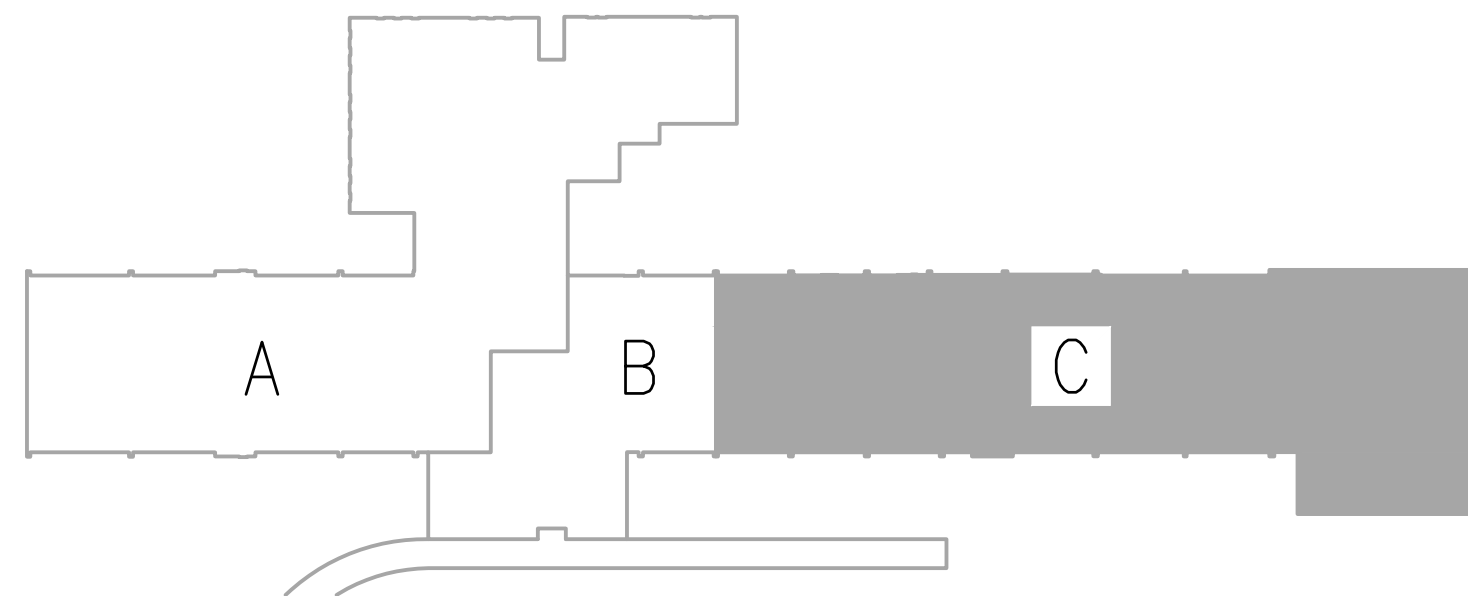
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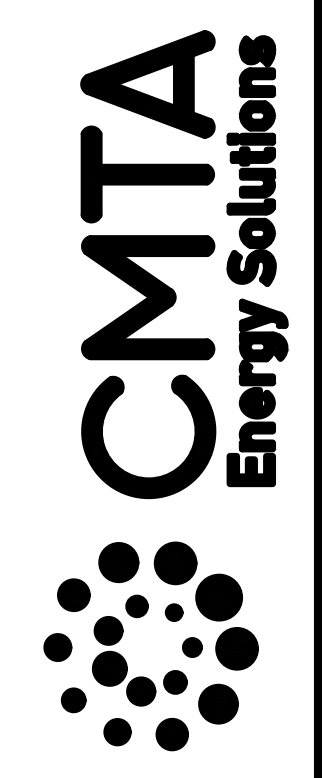
KEY PLAN
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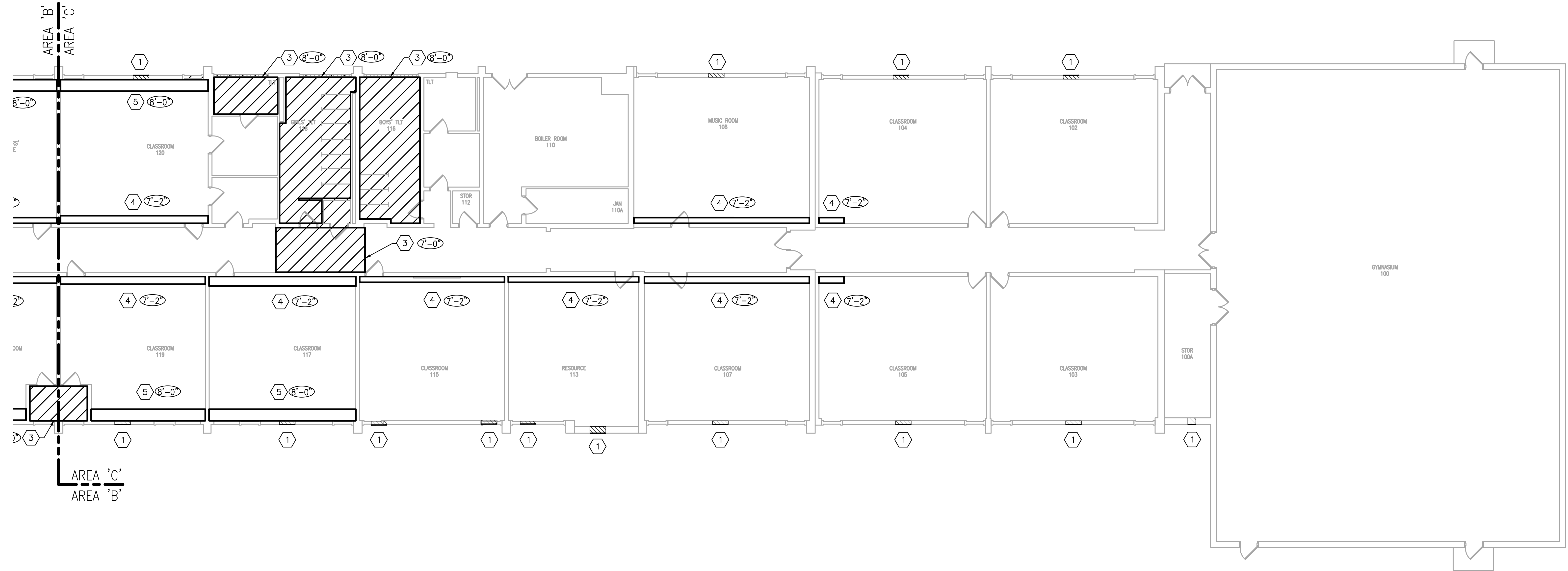
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 - SOFFITS IN CLASSROOMS AT EXTERIOR WALLS - BOTTOM OF SOFFIT AT 8'-0" ABOVE FINISHED FLOOR, 2'-0" WIDTH. BOTTOM OF SOFFIT TO BE CEILING TILE GRID CONSTRUCTION TO ALLOW FOR ACCESS, VERTICAL SIDE OF SOFFIT TO BE DRYWALL CONSTRUCTION.

NOT FOR CONSTRUCTION

9519 Civic Way, Suite 100
Prospect, KY 40059
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MBrongers@CMTA.COM



PULASKI COUNTY SCHOOLS
GUARANTEED ENERGY SAVINGS CONTRACT
NANCY ELEMENTARY SCHOOL
NANCY, KENTUCKY
NANCY ELEMENTARY SCHOOL - GENERAL TRADES



NANCY ELEMENTARY SCHOOL - GENERAL TRADES AREA 'C'
Scale: 1/8" = 1'

REVISIONS

DATE: 3/18/2022
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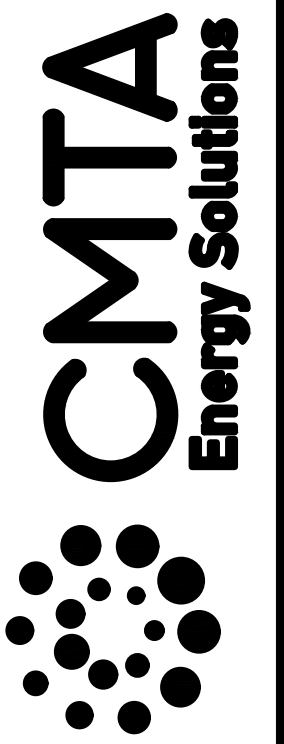
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NOT FOR
CONSTRUCTION

SHOPVILLE ELEMENTARY SCHOOL

10 MARK SHOPVILLE ROAD, SOMERSET, KENTUCKY 42503 GENERAL TRADES DRAWINGS

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Prospect, KY 40059
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MBrongers@cmta.com



General Notes

THE GENERAL TRADES CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING:

1. PROVIDE ALL LABOR AND ALL MATERIALS REQUIRED TO COMPLETE SCOPE OF WORK.
2. COMPLETE ALL INSTALLATION WORK DURING HOURS COORDINATED WITH THE OWNER'S CLASS AND STAFF OCCUPANCY SCHEDULES. CONTRACTOR SHALL PROVIDE AN OVERALL PROJECT SCHEDULE AND SHALL COORDINATE A BI-WEEKLY TASK SCHEDULE WITH THE CMTA CONSTRUCTION MANAGER TO ALLOW FOR APPROPRIATE COORDINATION WITH THE OWNER.
3. PROVIDE ALL LADDERS, LIFTS AND SCAFFOLDS REQUIRED TO ACCESS WORK AREAS.
4. PROVIDE ALL REQUIRED EQUIPMENT TO PERFORM WORK.
5. MAINTAIN SAFE WORK HABITS AND UTILIZE ALL NECESSARY SAFETY EQUIPMENT.
6. CLEAN ALL WORK AREAS AFTER INSTALLATION WORK IS COMPLETE. ALL CONSTRUCTION DEBRIS SHALL BE COMPLETELY REMOVED AND CLEANED BY CONTRACTOR.
7. PROVIDE ON-SITE DUMPSTER AS NECESSARY. CONSTRUCTION DEBRIS NOT TO BE PLACED IN OWNER'S DUMPSTERS OR TRASH CANS.
8. PROVIDE ON-SITE PORTABLE TOILETS AS NECESSARY.
9. REFER TO MECHANICAL PLANS FOR FULL EXTENT OF MECHANICAL SCOPE AS IT RELATES TO THE GENERAL TRADES SCOPE.
10. PROVIDE ALL NECESSARY MATERIAL AND LABOR INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING AS REQUIRED TO COMPLETE THE SCOPE OF WORK PER DRAWINGS AND SPECIFICATIONS:
 - a. PERMIT AND FEES
 - b. DEMOLITION AND INSTALLATION LABOR
 - c. SHEET METAL
 - d. INSULATION
 - e. CEILING TILE AND T-GRID
 - f. DRYWALL, JOINT COMPOUND, FRAMING, BLOCK, ETC.
 - g. ALL OTHER MISCELLANEOUS REQUIRED MATERIALS TO COMPLETE THE SCOPE OF WORK

PULASKI COUNTY SCHOOLS
GUARANTEED ENERGY SAVINGS CONTRACT
SHOPVILLE ELEMENTARY SCHOOL
SOMERSET, KENTUCKY

SHOPVILLE ELEMENTARY SCHOOL - GENERAL TRADES

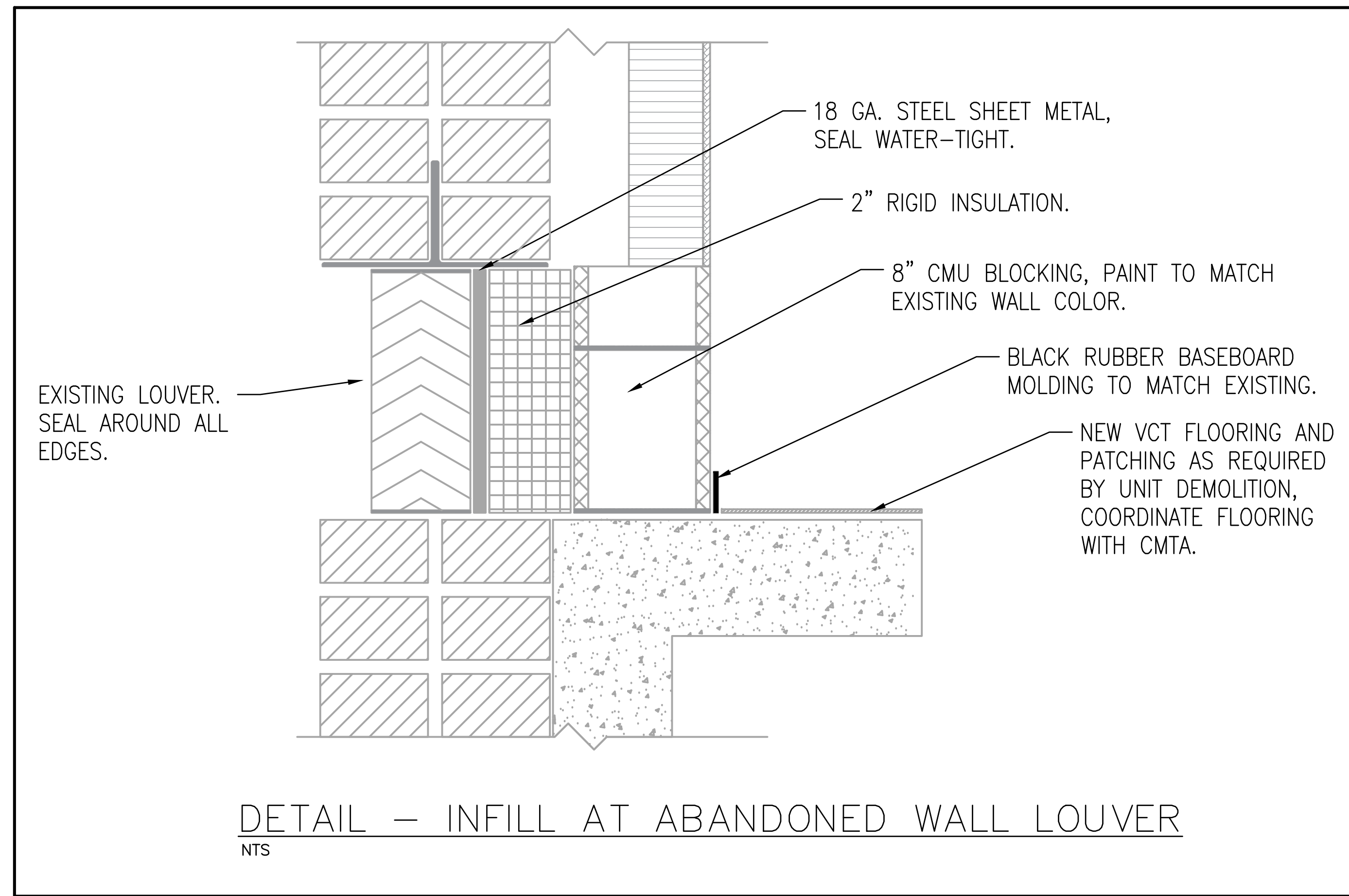
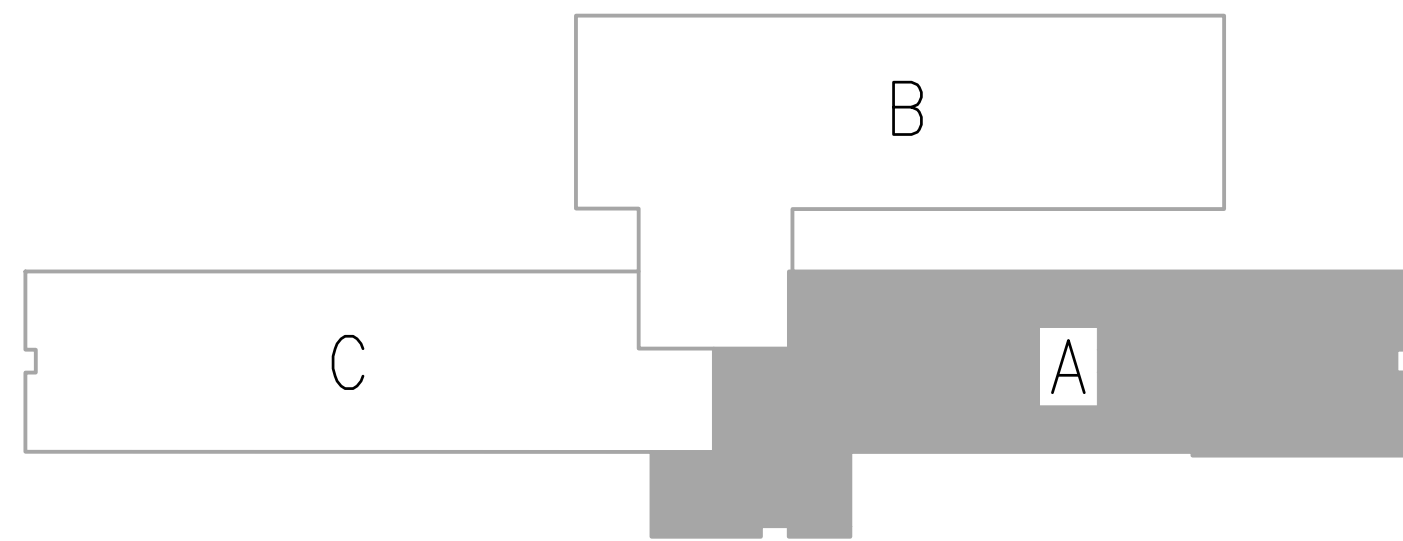
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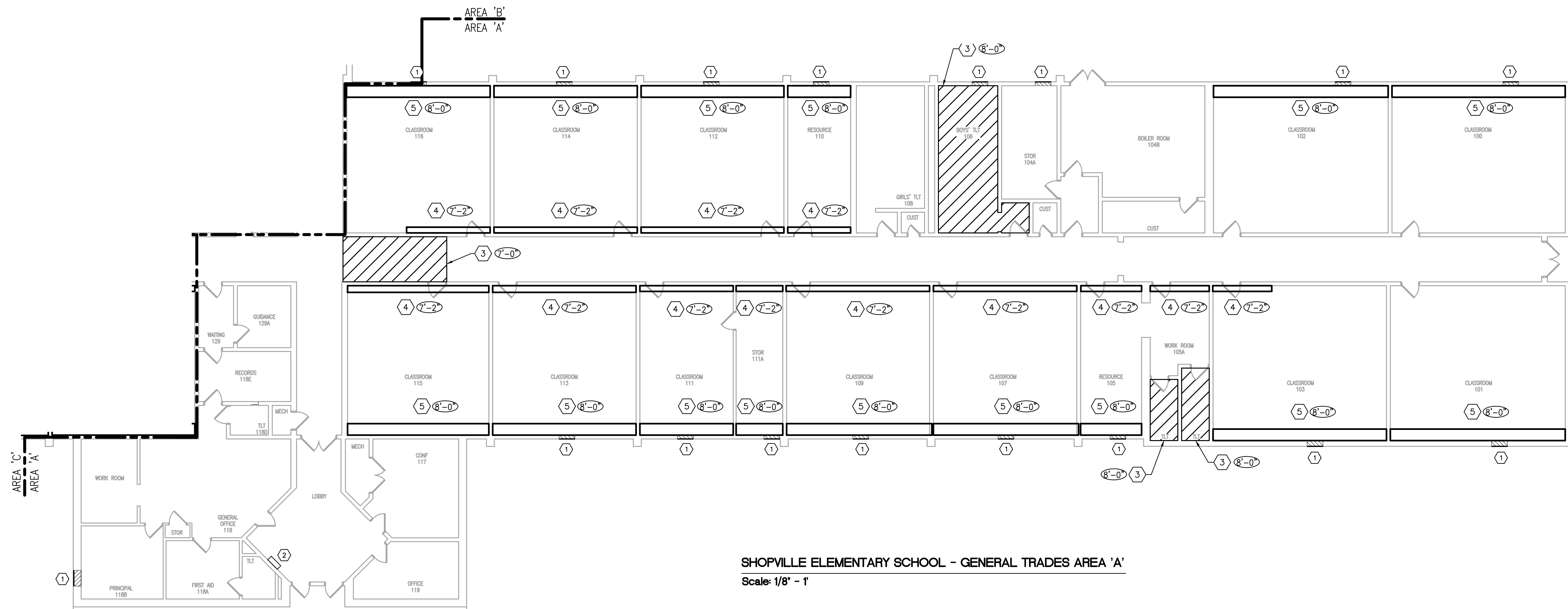
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KEY PLAN
NOT TO SCALE



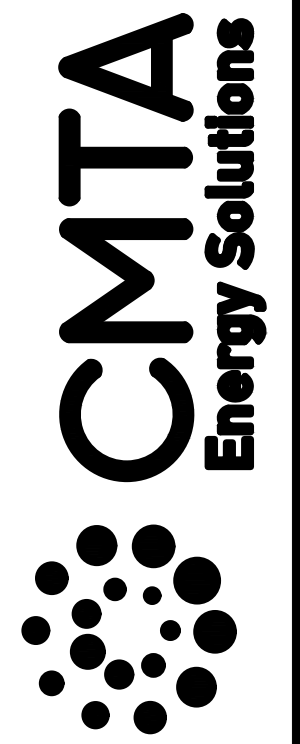
- GENERAL TRADES TAGGED NOTES:
- EXISTING HVAC EQUIPMENT AND SHEETMETAL TO LOUVER WILL BE COMPLETELY DEMOLISHED BY MECHANICAL CONTRACTOR. GENERAL TRADES CONTRACTOR TO INFILL REMAINING LOUVER WALL CAVITY AS SPECIFIED IN 'INFILL AT ABANDONED WALL LOUVER' DETAIL, INCLUDING WALL AND FLOOR PATCHING AND PAINTING FROM HVAC UNIT REMOVAL.
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SHOPVILLE ELEMENTARY SCHOOL - GENERAL TRADES AREA 'A'
Scale: 1/8" = 1'

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SHOPVILLE ELEMENTARY SCHOOL
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SHOPVILLE ELEMENTARY SCHOOL - GENERAL TRADES

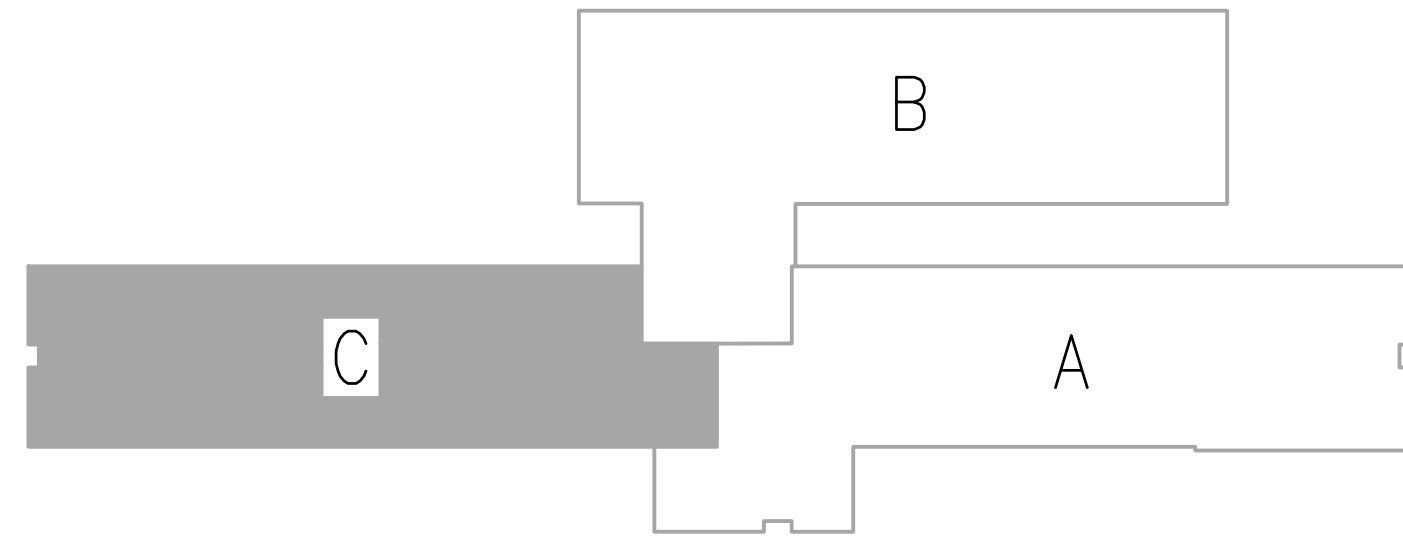
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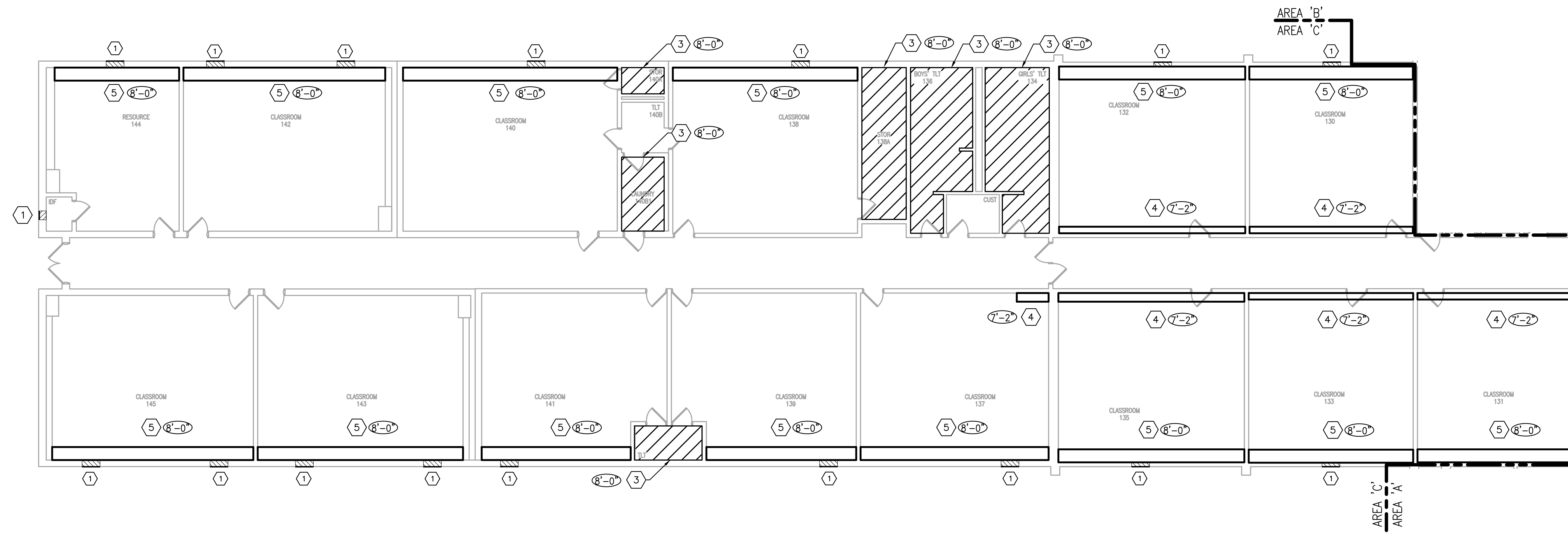
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KEY PLAN
NOT TO SCALE



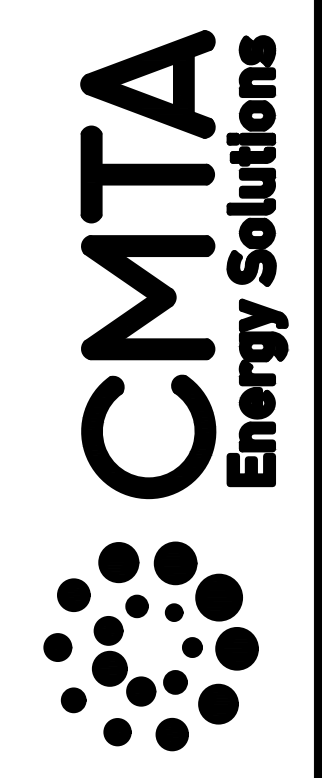
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SHOPVILLE ELEMENTARY SCHOOL - GENERAL TRADES AREA 'C'
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PULASKI COUNTY SCHOOLS
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SHOPVILLE ELEMENTARY SCHOOL
SOMERSET, KENTUCKY
SHOPVILLE ELEMENTARY SCHOOL - GENERAL TRADES

REVISIONS

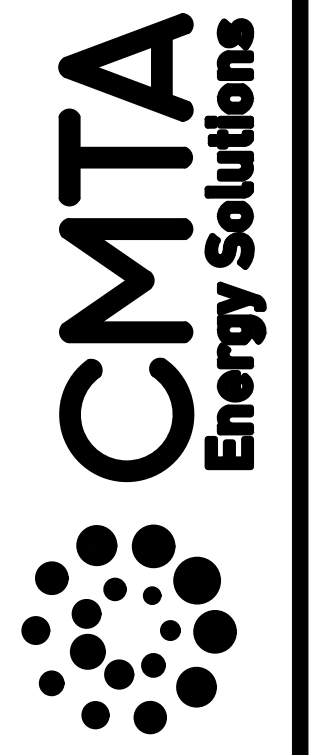
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PULASKI COUNTY SCHOOLS
GUARANTEED ENERGY SAVINGS CONTRACT
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SOMERSET, KENTUCKY

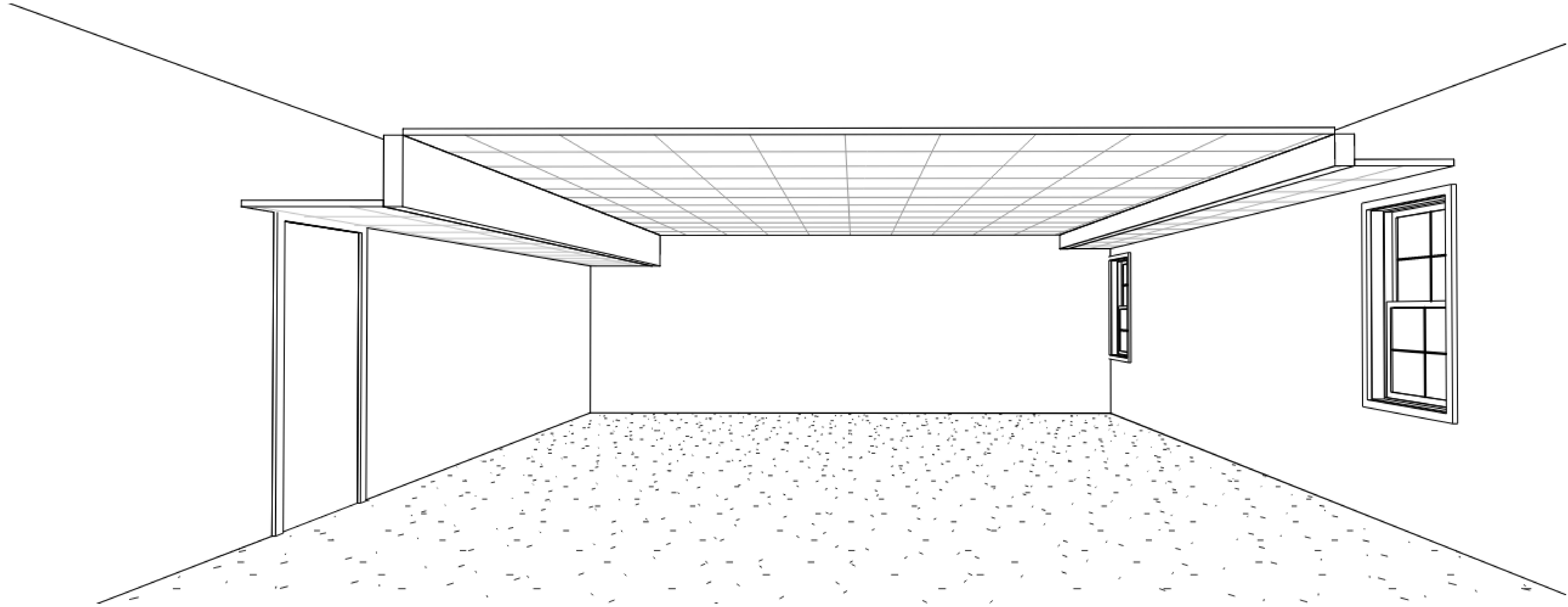
SOFFIT MODEL - GENERAL TRADES

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CLASSROOM CEILING SOFFIT MODEL - FOR REFERENCE ONLY
NOTES - SOFFIT HEIGHTS AND LOCATIONS VARY, REFER TO PLANS

PULASKI COUNTY SCHOOLS GUARANTEED ENERGY SAVINGS CONTRACT

ENERGY SERVICES COMPANY & CONSULTING ENGINEERS

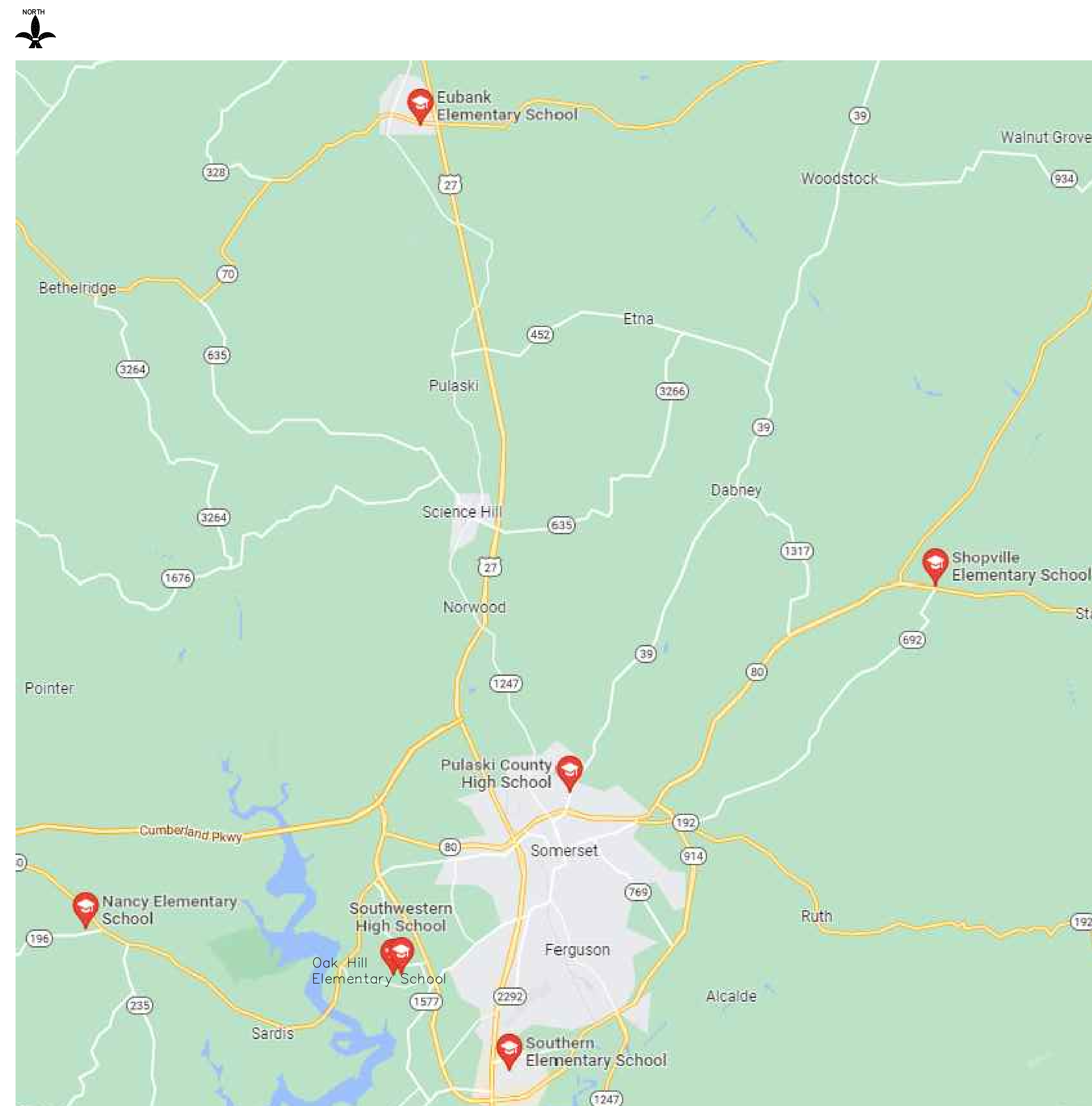


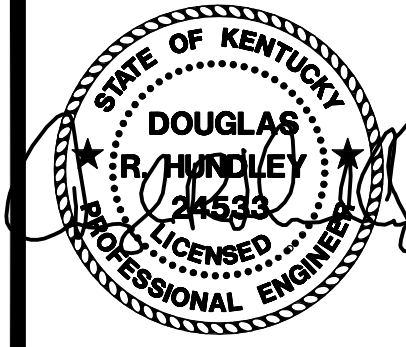
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AREA 'G' - MECHANICAL</p> <p>M-6.2.2 - GYM/AUDITORIUM SECOND FLOOR - AREA 'F' - MECHANICAL</p> <p>M-6.2.3 - GYM/AUDITORIUM SECOND FLOOR - AREA 'G' - MECHANICAL</p> <p>M-6.2.4 - GYM/AUDITORIUM BASEMENT - AREA 'G' - MECHANICAL</p> <p>M-6.3.0 - ENLARGED GROUND FLOOR - AREA 'A' AND 'G' - MECHANICAL</p> <p>SOUTHWESTERN HIGH SCHOOL</p> <p>M-7.1.0 - MECHANICAL LEGEND, GENERAL NOTES, AND SCHEDULE</p> <p>M-7.2.0 - FIRST FLOOR PLAN - AREA 'B' - HVAC DEMOLITION</p> <p>M-7.2.1 - FIRST FLOOR PLAN - AREA 'C' - HVAC DEMOLITION</p> <p>M-7.2.2 - FIRST FLOOR PLAN - AREA 'D' - HVAC DEMOLITION</p> <p>M-7.2.3 - SECOND FLOOR PLAN - AREA 'G' - HVAC DEMOLITION</p> <p>M-7.2.4 - SECOND FLOOR PLAN - AREA 'H' - HVAC DEMOLITION</p> <p>M-7.2.5 - SECOND FLOOR PLAN - AREA 'J' - HVAC DEMOLITION</p> <p>M-7.3.0 - FIRST FLOOR PLAN - AREA 'B' - HVAC</p> <p>M-7.3.1 - FIRST FLOOR PLAN - AREA 'C' - HVAC</p> <p>M-7.3.2 - FIRST FLOOR PLAN - AREA 'D' - HVAC</p> <p>M-7.3.3 - SECOND FLOOR PLAN - AREA 'G' - HVAC</p> <p>M-7.3.4 - SECOND FLOOR PLAN - AREA 'H' - HVAC</p> <p>M-7.3.5 - SECOND FLOOR PLAN - AREA 'J' - HVAC</p> <p>M-7.4.0 - DETAILS AND PIPING SCHEMATICS</p>	<p>EUBANK ELEMENTARY SCHOOL</p> <p>E1.0 - ELECTRICAL LEGEND - BP2</p> <p>E1-2.1A - FIRST FLOOR ELECTRICAL DEMOLITION - AREA 'A'</p> <p>E1-2.1B - FIRST FLOOR ELECTRICAL DEMOLITION - AREA 'B'</p> <p>E1-2.1C - FIRST FLOOR ELECTRICAL DEMOLITION - AREA 'C'</p> <p>E1-2.2 - ROOF ELECTRICAL DEMOLITION</p> <p>E1-3.1A - FIRST FLOOR ELECTRICAL - AREA 'A'</p> <p>E1-3.1B - FIRST FLOOR ELECTRICAL - AREA 'B'</p> <p>E1-3.1C - FIRST FLOOR ELECTRICAL - AREA 'C'</p> <p>E1-3.2 - ROOF ELECTRICAL</p> <p>E1-4.0 - ELECTRICAL DETAILS</p> <p>OAK HILL ELEMENTARY SCHOOL</p> <p>E2-2.1A - FIRST FLOOR ELECTRICAL DEMOLITION - AREA A</p> <p>E2-2.1B - FIRST FLOOR ELECTRICAL DEMOLITION - AREA B</p> <p>E2-2.1C - FIRST FLOOR ELECTRICAL DEMOLITION - AREA C</p> <p>E2-2.2 - ROOF ELECTRICAL DEMOLITION</p> <p>E2-3.1A - FIRST FLOOR ELECTRICAL - AREA A</p> <p>E2-3.1B - FIRST FLOOR ELECTRICAL - AREA B</p> <p>E2-3.1C - FIRST FLOOR ELECTRICAL - AREA C</p> <p>E2-3.2 - ROOF ELECTRICAL</p> <p>NANCY ELEMENTARY SCHOOL</p> <p>E3-2.1A - FIRST FLOOR ELECTRICAL DEMOLITION - AREA A</p> <p>E3-2.1B - FIRST FLOOR ELECTRICAL DEMOLITION - AREA B</p> <p>E3-2.1C - FIRST FLOOR ELECTRICAL DEMOLITION - AREA C</p> <p>E3-2.2 - ROOF ELECTRICAL DEMOLITION</p> <p>E3-3.1A - FIRST FLOOR ELECTRICAL - AREA A</p> <p>E3-3.1B - FIRST FLOOR ELECTRICAL - AREA B</p> <p>E3-3.1C - FIRST FLOOR ELECTRICAL - AREA C</p> <p>E3-3.2 - ROOF ELECTRICAL</p> <p>SHOPVILLE ELEMENTARY SCHOOL</p> <p>E4-2.1A - FIRST FLOOR ELECTRICAL DEMOLITION - AREA 'A'</p> <p>E4-2.1B - FIRST FLOOR ELECTRICAL DEMOLITION - AREA 'B'</p> <p>E4-2.1C - FIRST FLOOR ELECTRICAL DEMOLITION - AREA 'C'</p> <p>E4-2.2 - ROOF ELECTRICAL DEMOLITION</p> <p>E4-3.1A - FIRST FLOOR ELECTRICAL - AREA 'A'</p> <p>E4-3.1B - FIRST FLOOR ELECTRICAL - AREA 'B'</p> <p>E4-3.1C - FIRST FLOOR ELECTRICAL - AREA 'C'</p> <p>E4-3.2 - ROOF ELECTRICAL DEMOLITION</p>	<p>SOUTHERN ELEMENTARY SCHOOL</p> <p>E1.0 - ELECTRICAL LEGEND - BP1</p> <p>E5-2.0 - FIRST FLOOR ELECTRICAL - AREA D</p> <p>PULASKI COUNTY HIGH SCHOOL</p> <p>E6-2.0 - GROUND FLOOR ELECTRICAL</p> <p>E6-2.1 - GROUND FLOOR ELECTRICAL - AREA D</p> <p>SOUTHWESTERN HIGH SCHOOL</p> <p>E7-2.0 - FIRST FLOOR ELECTRICAL DEMOLITION - AREA B</p> <p>E7-2.1 - SECOND FLOOR ELECTRICAL DEMOLITION - AREA H</p> <p>E7-2.2 - SECOND FLOOR ELECTRICAL DEMOLITION - AREA J</p> <p>E7-3.0 - FIRST FLOOR ELECTRICAL - AREA B</p> <p>E7-3.1 - SECOND FLOOR ELECTRICAL - AREA H</p> <p>E7-3.2 - SECOND FLOOR ELECTRICAL - AREA J</p>

VICINITY / LOCATOR MAP

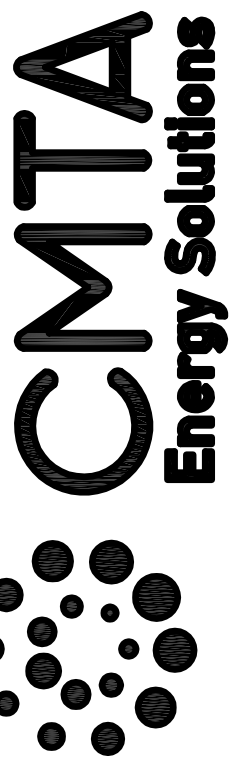
- | | |
|---|--|
| 01 EUBANK ELEMENTARY SCHOOL
285 KY-70
EUBANK, KY 42567 | 05 SOUTHERN ELEMENTARY
198 ENTERPRISE DR.
SOMERSET, KY 42501 |
| 02 OAK HILL ELEMENTARY SCHOOL
1755 WTL0 ROAD
SOMERSET, KY 42503 | 06 PULASKI COUNTY HIGH SCHOOL
511 UNIVERSITY DR.
SOMERSET, KY 42503 |
| 03 NANCY ELEMENTARY SCHOOL
240 KY-196,
NANCY, KY 42544 | 07 SOUTHWESTERN HIGH SCHOOL
1765 WTL0 RD.
SOMERSET, KY 42503 |
| 04 SHOPVILLE ELEMENTARY SCHOOL
10 MARK SHOPVILLE RD
SOMERSET, KY 42503 | |





BID SET

9519 Civic Way, Suite 100
Prospect, KY 40059
T: 502 409-4062, F: 502 919-1521
M: Brangerson@CMTA.COM

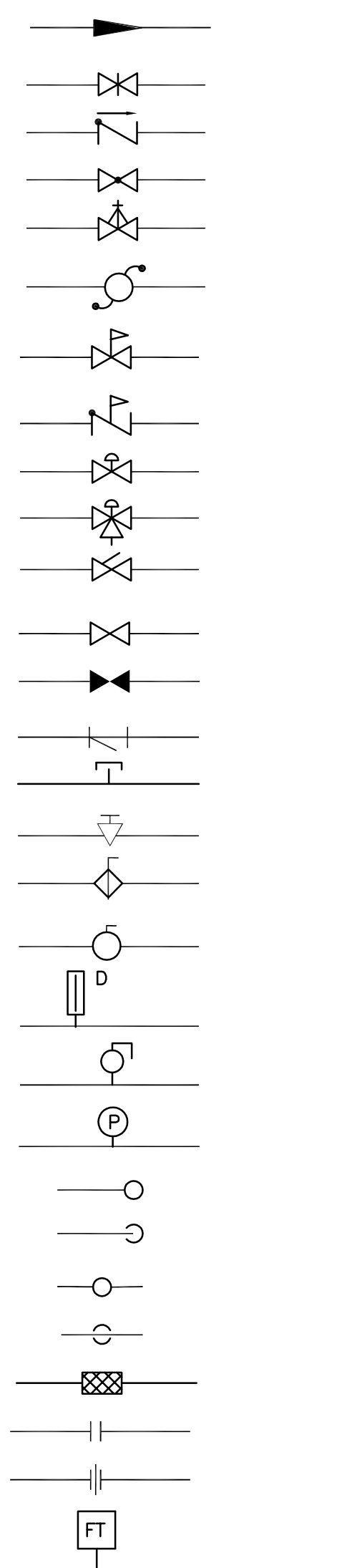


Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT

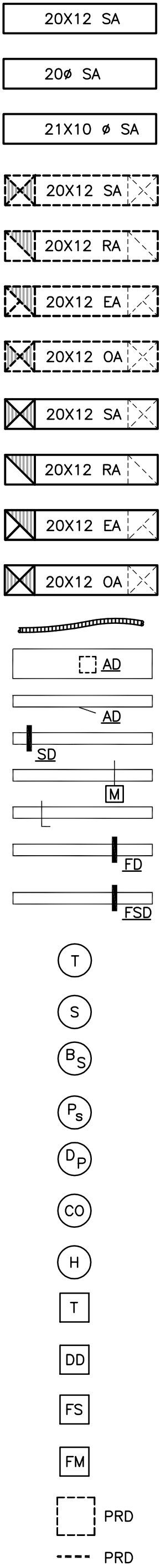
MECHANICAL LEGEND AND GENERAL NOTES

MECHANICAL LEGEND

AFF	ABOVE FINISHED FLOOR
TYP	TYPICAL
NTS	NOT TO SCALE
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NC	NORMALLY CLOSED
	CONNECT TO EXISTING
	TAGGED NOTE
	DEMOLISH TO THIS POINT
	DEMOLISH TO THIS POINT AND CAP
	MECHANICAL EQUIPMENT DESIGNATOR XX - SCHOOL IDENTIFIER
	MECHANICAL VAV BOX DESIGNATOR XX - AHU IDENTIFIER YY - VAV #
	INDICATES AIR DISTRIBUTION DEVICE SPECIFICATION (L=LOUVER, T=TRANSFER GRILLE, S=SUPPLY DIFFUSER OR REGISTER, R=RETURN GRILLE OR REGISTER, E= EXHAUST GRILLE OR REGISTER)
	EXISTING PIPING TO REMAIN (THIN SOLID LINE)
	REMOVE EXISTING PIPING (THICK BROKEN LINE)
	CONDENSATE DRAIN LINE
	UNDERGROUND GEOTHERMAL SUPPLY (SOLID LINE)
	UNDERGROUND GEOTHERMAL RETURN (BROKEN LINE)
	GEOTHERMAL SUPPLY
	GEOTHERMAL RETURN
	HEAT PUMP SUPPLY
	HEAT PUMP RETURN
	REFRIGERANT SUCTION
	REFRIGERANT LIQUID
	RELIEF VALVE DISCHARGE (LIQUID)
	PIPING RUN-OUT CONNECTION



CENTRIC REDUCER
BUTTERFLY VALVE
CHECK VALVE
GLOBE VALVE
O S & Y VALVE (GATE)
SAFETY OR RELIEF VALVE
PRESSURE REDUCING VALVE (WATER)
REDUCED PRESSURE BACKFLOW PREVENTER
CONTROL VALVE (2-WAY)
CONTROL VALVE (3-WAY)
TRIPLE DUTY VALVE
GATE VALVE (NORMALLY OPEN)
GATE VALVE (NORMALLY CLOSED)
STRAINER
PETE'S PLUG OR EQUIVALENT
GAS COCK
BALANCING VALVE
BALL VALVE
DIGITAL THERMOMETER
MANUAL AIR VENT
PRESSURE GAUGE
PIPING ELBOW TURNED UP
PIPING ELBOW TURNED DOWN
PIPING TEE TURNED UP
PIPING TEE TURNED DOWN
FLEXIBLE CONNECTOR
FLANGE
UNION
FLOW TAP



RECTANGULAR DUCTWORK - INSIDE DIMENSION - 20"HORZ.X12"VERT.
ROUND DUCTWORK - INSIDE DIMENSION - 20"
EXPOSED OVAL DUCTWORK - INSIDE DIMENSION - 21"HORZ.X10"VERT.
SUPPLY AIR DUCT DEMOLITION - INSIDE DIMENSION - 20"HORZ.X12"VERT. (TURNED UP/DOWN)
RETURN AIR DUCT DEMOLITION - INSIDE DIMENSION - (TURNED UP/DOWN)
EXHAUST AIR DUCT DEMOLITION - INSIDE DIMENSION - (TURNED UP/DOWN)
OUTSIDE AIR DUCT DEMOLITION - INSIDE DIMENSION - (TURNED UP/DOWN)
SUPPLY AIR DUCT - INSIDE DIMENSION - 20"HORZ.X12"VERT. (TURNED UP/DOWN)
RETURN AIR DUCT - INSIDE DIMENSION - (TURNED UP/DOWN)
EXHAUST AIR DUCT - INSIDE DIMENSION - (TURNED UP/DOWN)
OUTSIDE AIR DUCT - INSIDE DIMENSION - (TURNED UP/DOWN)
FLEXIBLE DUCT
ACCESS DOOR IN BOTTOM OF DUCT
ACCESS DOOR IN SIDE OF DUCT
SMOKE DAMPER
OPPOSED BLADE DAMPER (MOTORIZED)
VOLUME DAMPER (MANUAL)
FIRE DAMPER
FIRE/SMOKE DAMPER
THERMOSTAT
FAN SWITCH
EMERGENCY BOILER SHUT-OFF SWITCH
DUCT MOUNTED PRESSURE SENSOR
PIPE MOUNTED DIFFERENTIAL PRESSURE SENSOR
CARBON DIOXIDE SENSOR
HUMIDITY SENSOR
TIMER SWITCH
DUCT SMOKE DETECTOR
FLOW SWITCH - MCDONNELL FSBW
FLOW METER
PRESSURE RELIEF DOOR
PRESSURE RELIEF DOOR INDICATED IN DUCT RISER LOCATION

GENERAL NOTES - APPLICABLE TO ALL DRAWINGS

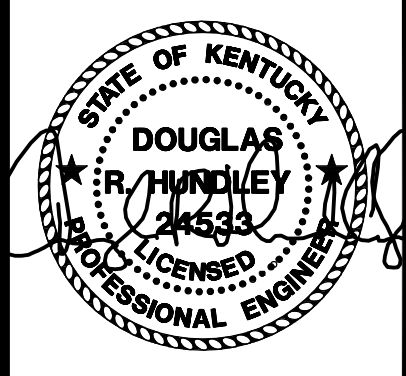
- A. EACH CONTRACTOR, SUPPLIER AND, OR MANUFACTURER SHALL REFER TO ALL DOCUMENTS PERTAINING TO THIS PROJECT AND COORDINATE ACCORDINGLY SO AS TO ENSURE ADEQUACY OF FIT, COMPLIANCE WITH SPECIFICATIONS, PROPER VOLTAGE AND CURRENT CHARACTERISTICS AND AVOID CONFLICT WITH ANY OTHER BUILDINGS SYSTEMS.
- B. 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.
- C. INSTALL NO PIPING, CONDUIT, DUCTWORK, ETC., IN A LOCATION OR IN A MANNER WHICH WILL ALLOW FREEZING AND/OR THE COLLECTION OF CONDENSATION THEREON.
- D. OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS (CITY, COUNTY, LOCAL, STATE, FEDERAL, MUNICIPALITY, UTILITY COMPANY, OSHA, ETC.).
- E. ALL SYSTEMS, EQUIPMENT AND MATERIALS ARE TO BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. WORK NOT DONE SO SHALL BE REMOVED AND REINSTALLED SATISFACTORILY.
- F. WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEERS BEFORE INSTALLATION.
- G. DO NOT SCALE FROM DRAWINGS, PRINTING DISTORTS SCALE. WORK SHALL BE LAID OUT FROM DIMENSIONED DRAWINGS, OR DIMENSIONS SUPPLIED TO THE CONTRACTOR.
- H. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR HIS WORK. ALL CUTTING AND PATCHING SHALL MATCH EXISTING ADJACENT SURFACES.
- I. TURNING VANES SHALL BE INSTALLED IN ALL SUPPLY, RETURN, OUTSIDE, AND EXHAUST DUCT WORK ELBOWS.
- J. 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.
- K. WHERE PENETRATING ROOFING MEMBRANE OR OTHER MATERIALS USED FOR WEATHERPROOFING THE BUILDING, MAKE SUCH PENETRATIONS IN A WAY THAT WILL NOT VOID OR DIMINISH THE ROOFING WARRANTY OR INTEGRITY IN ANY WAY.
- L. ADVISE THE ENGINEERS OF ANY CONFLICTS, ERRORS, OMISSIONS, ETC. AT LEAST TEN DAYS PRIOR TO BID DATE, TO ALLOW CLARIFICATION BY WRITTEN ADDENDUM.
- M. DEVIATION FROM SPECIFICATIONS OR PLANS REQUIRES PRIOR WRITTEN APPROVAL FROM THE ENGINEERS AND MUST BE SUBMITTED IN WRITING NO LATER THAN TEN DAYS PRIOR TO THE BID DATE.
- N. COORDINATE THE LOCATION OF DRAINS, ELECTRICAL OUTLETS, ETC. WITH ALL MECHANICAL ROOM EQUIPMENT, ETC. PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE RESPONSIBLE CONTRACTOR(S).
- O. THE PURPOSE AND INTENT OF ALL THE DOCUMENTS PERTAINING TO THIS PROJECT IS TO PROVIDE A COMPLETE, FUNCTIONAL, SAFE, LIKE NEW FACILITY. ANYTHING LESS SHALL BE UNACCEPTABLE.
- P. ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISY 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'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER.
- Q. 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 ENGINEERS PRIOR TO INSTALLATION FOR CLARIFICATION.
- R. ALL SUPPORTS FOR EQUIPMENT, DEVICES OR FIXTURES SHALL BE UNIQUE, FROM THE BUILDING STRUCTURE. DO NOT SUPPORT WORK FROM OTHER TRADES, EQUIPMENT OR SUPPORTS WITHOUT WRITTEN PERMISSION FROM THE ENGINEER AND CONSENT OF THE OTHER TRADE, IN WRITING. DO NOT SUPPORT EQUIPMENT FROM WALLS OR PARTITIONS.
- S. VALVES, BALANCING DAMPERS OR ANY MECHANICAL/ELECTRICAL ITEM SHALL NOT BE LOCATED ABOVE A HARD CEILING. IF THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED ACCESS DOOR SHALL BE PLACED UNDER THE ITEM TO ALLOW EASY MAINTENANCE AND ADJUSTMENT.
- T. 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.
- U. INCLUDE IN BID ALL COST ASSOCIATED WITH DRAINING AND FILLING ALL PIPING SYSTEMS AS REQUIRED TO INSTALL WORK.

REVISIONS

DATE: 03.11.2022
 DRAWN: EM, LA, HC, NT
 CHECKED: CG

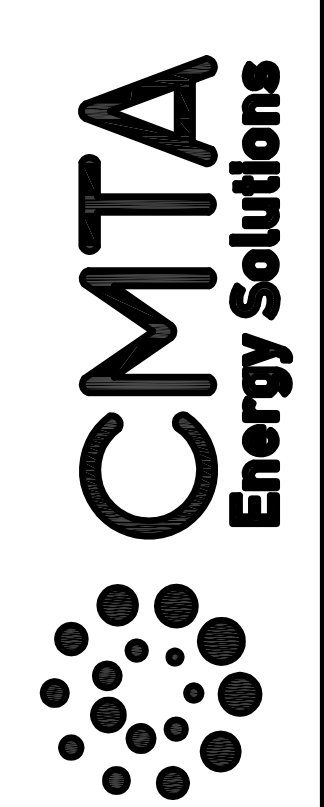
SET NO.

M-1.0



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Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
EUBANK ELEMENTARY SCHOOL
Eubank, KY
SITE PLAN - EXISTING GEOTHERMAL WELLFIELD

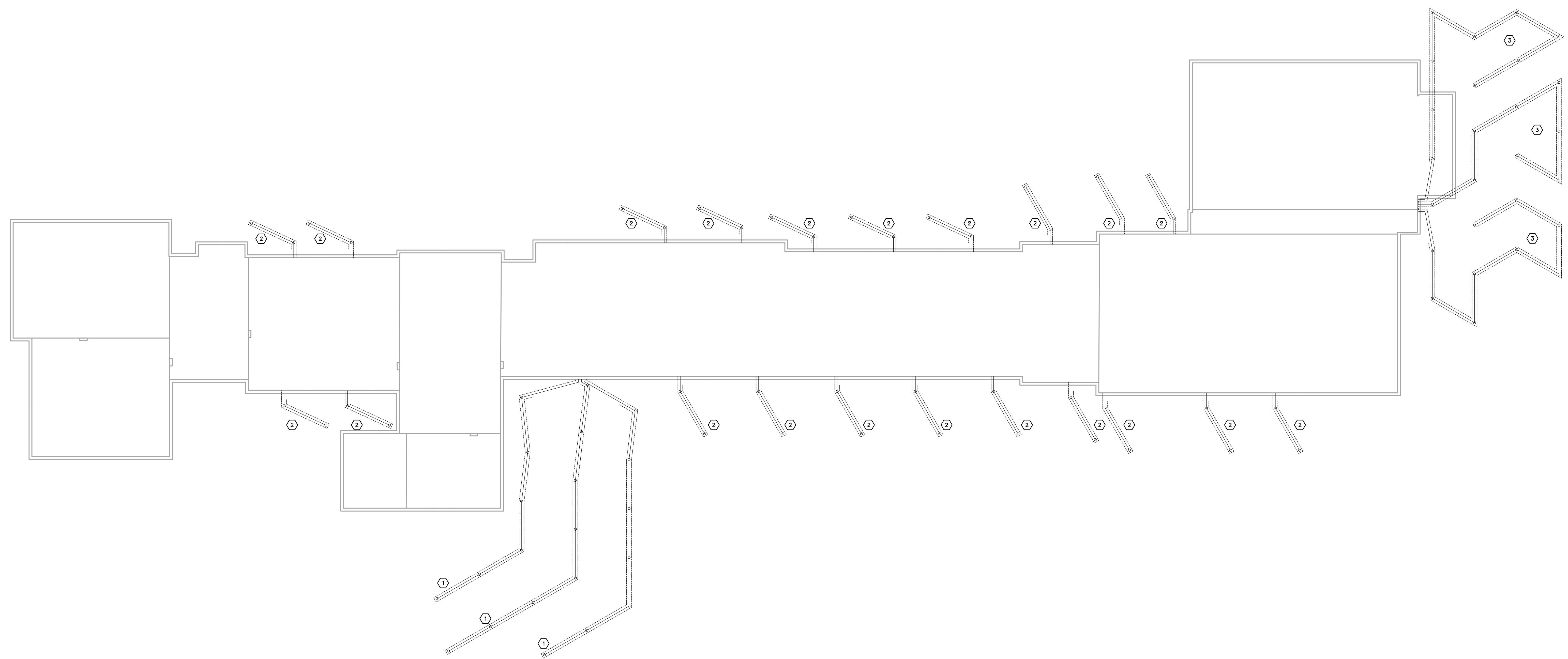
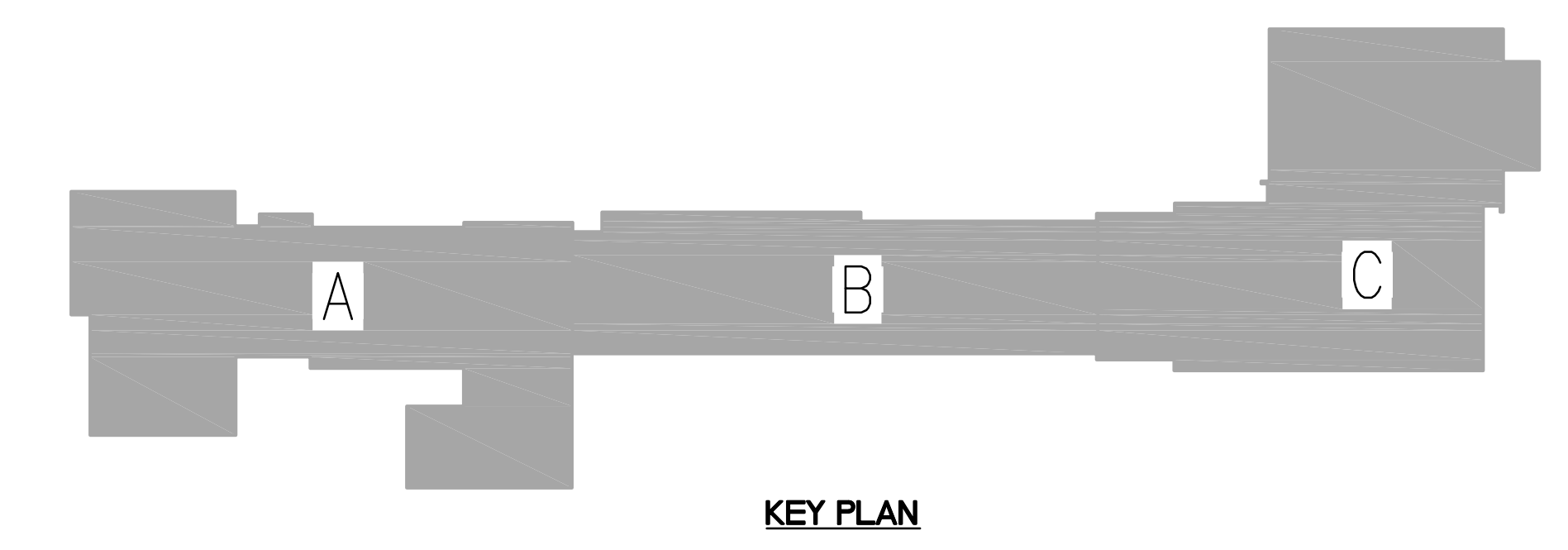
REVISIONS

DATE: 03.11.2022
DRAWN: EM, LA, HC, NT
CHECKED: CG

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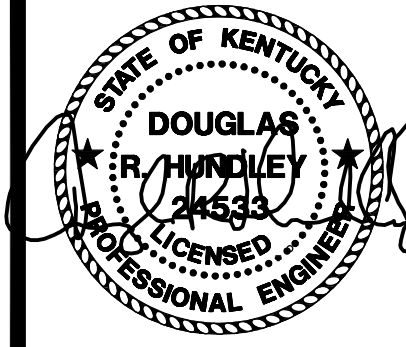
M1-
2.0

WELL LOOP SCHEDULE			
WELLFIELD DESIGNATION	WELL DEPTH	PIPE SIZE	GPM PER WELL
①	208'	1"	4.75
②	225'	1"	4.60
③	243'	1"	5.00



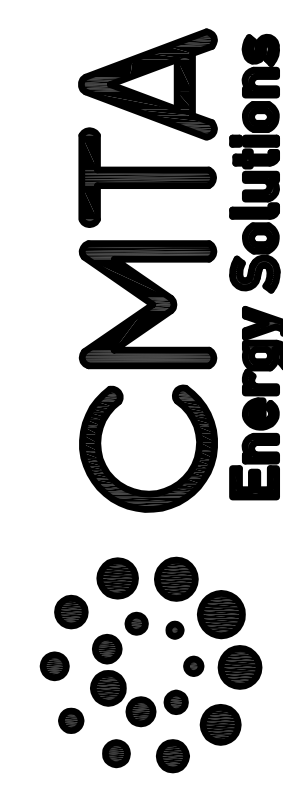
SITE PLAN - EXISTING GEOTHERMAL WELLFIELD 1
SCALE: 1" = 20'-0" M1-2.0

FOR
REFERENCE
ONLY



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Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
EUBANK ELEMENTARY SCHOOL
Eubank, KY

FIRST FLOOR MECHANICAL DEMOLITION - AREA A

REVISIONS

DATE: 03.11.2022
DRAWN: BM, LA, HC, NT
CHECKED: CG

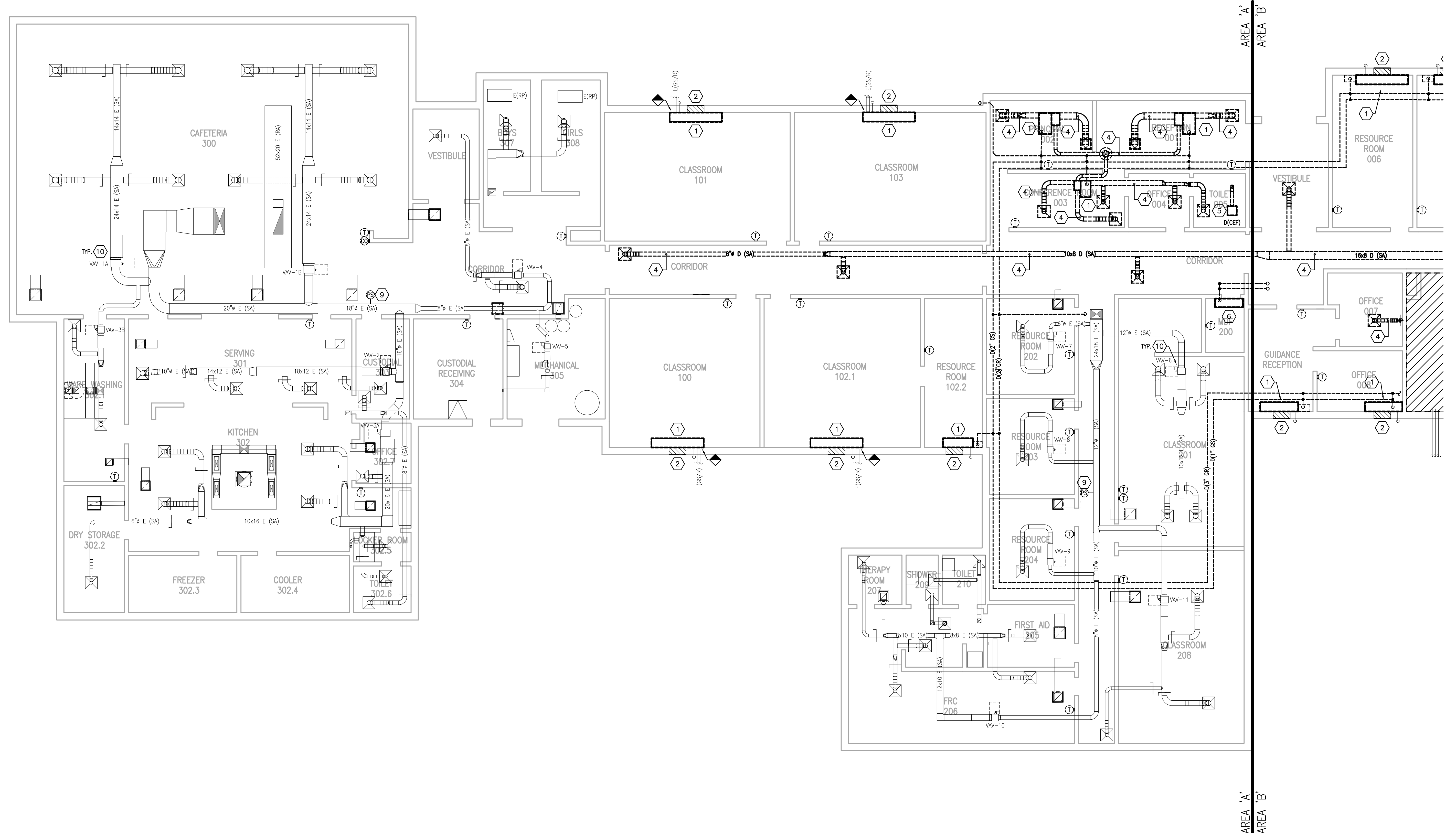
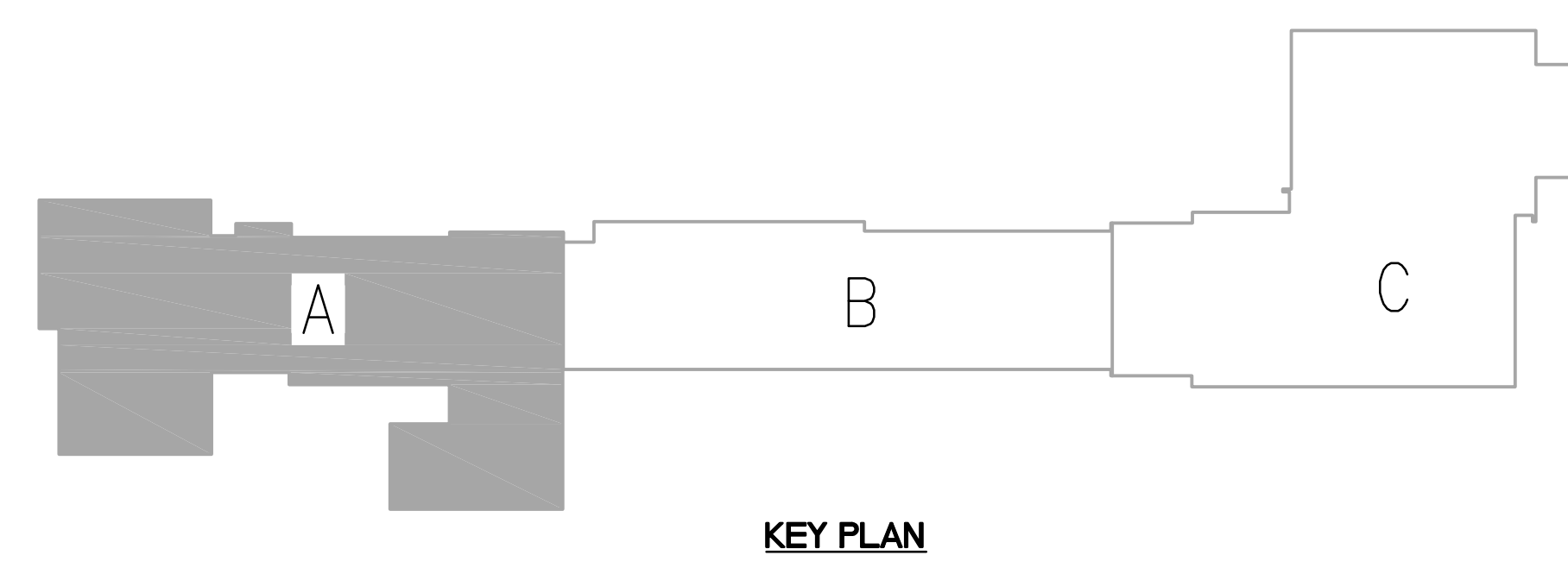
SET NO.

M1-
2.1A

EXISTING VAV DESIGN AIRFLOW			
TAG	AIRFLOW	TAG	AIRFLOW
VAV-1A	2000 CFM	VAV-6	1204 CFM
VAV-1B	2000 CFM	VAV-7	180 CFM
VAV-2	1385 CFM	VAV-8	180 CFM
VAV-3A	1527 CFM	VAV-9	180 CFM
VAV-3B	300 CFM	VAV-10	540 CFM
VAV-4	560 CFM	VAV-11	785 CFM
VAV-5	245 CFM		

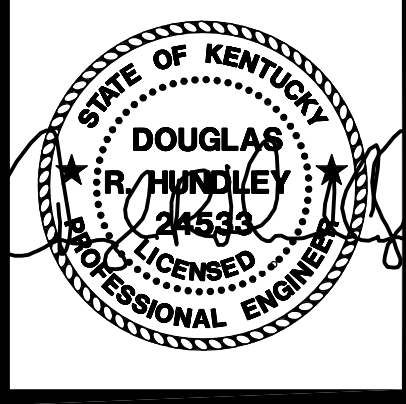
- GENERAL DEMOLITION NOTES:
- EXISTING GEOTHERMAL PIPING ROUTED UNDERSLAB TO EXISTING WELLFIELD IS TO REMAIN. PROVIDE INTERIOR SHUT-OFF VALVES AS REQUIRED. REFER TO NEW WORK PLANS AND DETAILS FOR MORE INFORMATION.
 - CONTRACTOR RESPONSIBLE FOR VERIFYING PIPE FLOW DIRECTION AND PIPE SIZE FOR CONNECTION.
 - WALL AND FLOOR PATCHING/PAINING: PATCH/INFILL ALL WALL/FLOOR PENETRATIONS WHERE EXISTING MECHANICAL EQUIPMENT/PIPING/DUCTWORK IS REMOVED. COORDINATE ALL PATCH/INFILL WORK WITH THE GENERAL CONTRACTOR.
 - EXISTING PIPING DEMOLITION: ALL EXISTING PIPING INDICATED TO BE REMOVED, IS TO BE REMOVED COMPLETELY TO BEYOND FINISHED SURFACES. INACCESSIBLE PIPING BURRED IN EXISTING WALLS REMAINING AND CONCRETE SLABS MAY BE REMOVED IN PLACE.
 - EXISTING THERMOSTAT/TEMPERATURE SENSOR/CONTROLS DEVICES: PROVIDE A STAINLESS STEEL COVER PLATE AT EXISTING OPENING IF LOCATION IS NOT BEING REUSED. COORDINATE ALL CONTROLS WORK WITH TCC.
 - ALL GRILLES THAT ARE TO REMAIN SHALL BE CLEANED.
 - ASBESTOS ABATEMENT: REFER TO GENERAL CONTRACTOR CONCERNING ALL ASBESTOS ABATEMENT ON THE PROJECT.
 - THE OWNER WILL SALVAGE CERTAIN REMOVED EQUIPMENT. COORDINATE WITH THE GENERAL CONTRACTOR.

- MECHANICAL DEMOLITION NOTES:
- EXISTING HEAT PUMP TO BE REMOVED COMPLETELY, INCLUDING ALL ASSOCIATED DUCTWORK, PIPING, CONDENSATE DRAIN AND PUMP (IF APPLICABLE), ELECTRICAL AND CONTROLS CONNECTIONS. PATCH WALL/FLOOR AS REQUIRED FOR COMPLETE EQUIPMENT REMOVAL. COORDINATE WALL AND FLOOR PATCHING WITH GENERAL CONTRACTOR.
 - EXISTING LOUVER TO REMAIN. BLANK OFF THE INSIDE OF THE EXISTING LOUVER WITH SHEET METAL AND INSULATE WITH 2" RIGID INSULATION. COORDINATE LOUVER INFILL AND FINAL FINISHES WITH GENERAL CONTRACTOR.
 - REFER TO SHEET M1-4.0 FOR ENLARGED PLAN OF GYM 126 PLATFORM DEMOLITION.
 - EXISTING SUPPLY/RETURN/EXHAUST/OUTDOOR AIR DUCTWORK, GRILLES, AND RISER INDICATED TO BE REMOVED COMPLETELY. REMOVE ALL ASSOCIATED HANGERS/SUPPORTS/ACCESSORIES. PATCH WALLS/SLAB/CEILING AT DUCT OPENINGS (TYPICAL).
 - REMOVE EXISTING CEILING MOUNTED EXHAUST FAN INCLUDING ALL ELECTRICAL AND CONTROLS CONNECTIONS (DISCONNECTS/SWITCHES/ETC). EXISTING EXHAUST RISER TO REMAIN. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION.
 - EXISTING SPLIT SYSTEM AND ASSOCIATED OUTDOOR CONDENSING UNIT TO BE REMOVED COMPLETELY, INCLUDING ALL PIPING, CONDENSATE DRAIN AND PUMP (IF APPLICABLE), ELECTRICAL AND CONTROLS CONNECTIONS. REMOVE ALL ASSOCIATED HANGERS/SUPPORTS/ACCESSORIES. PATCH WALLS/SLAB/CEILING AT DUCT OPENINGS (TYPICAL).
 - REMOVE EXISTING DUCT STATIC PRESSURE SENSOR ASSOCIATED WITH EXISTING RTU, AS REQUIRED FOR NEW CONTROLS. COORDINATE ALL CONTROLS SCOPE WITH TCC.
 - EXISTING VAV CONTROLLER TO BE REPLACED. COORDINATE ALL CONTROLS SCOPE WITH TCC. TYPICAL OF ALL EXISTING VAV BOXES.



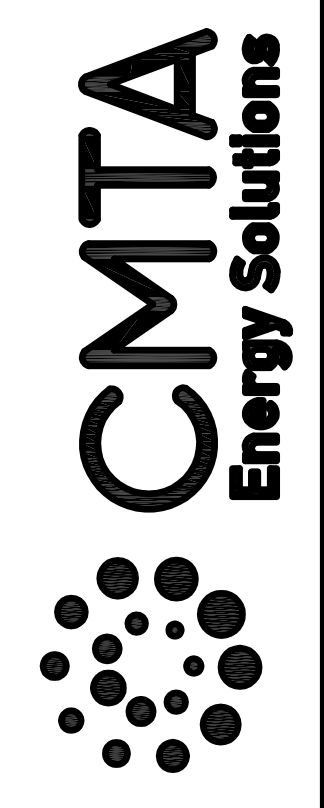
PARTIAL FIRST FLOOR PLAN (AREA A) - MECHANICAL DEMOLITION
SCALE: 1/8" = 1'-0"

1
M1-2.1A



BID SET

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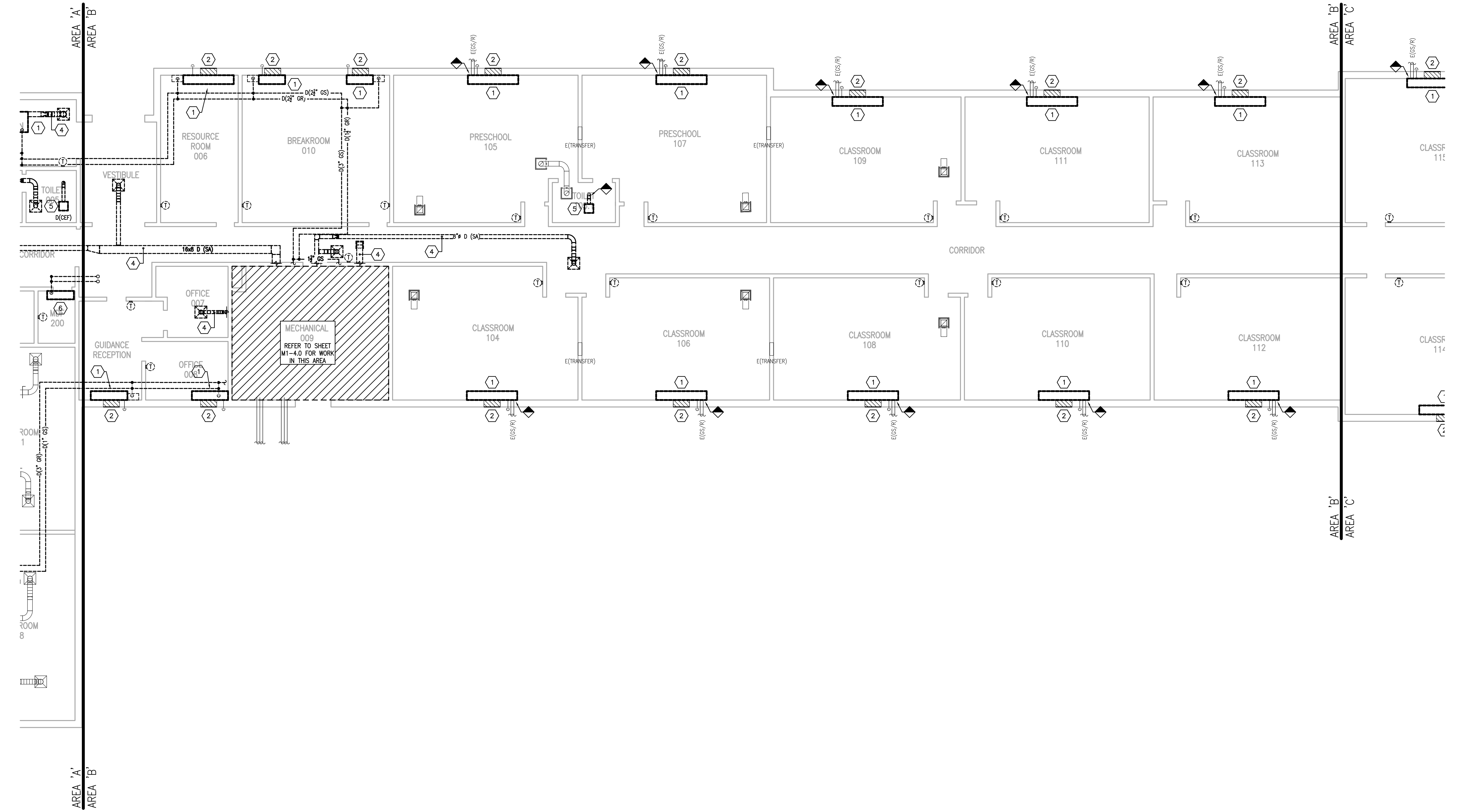
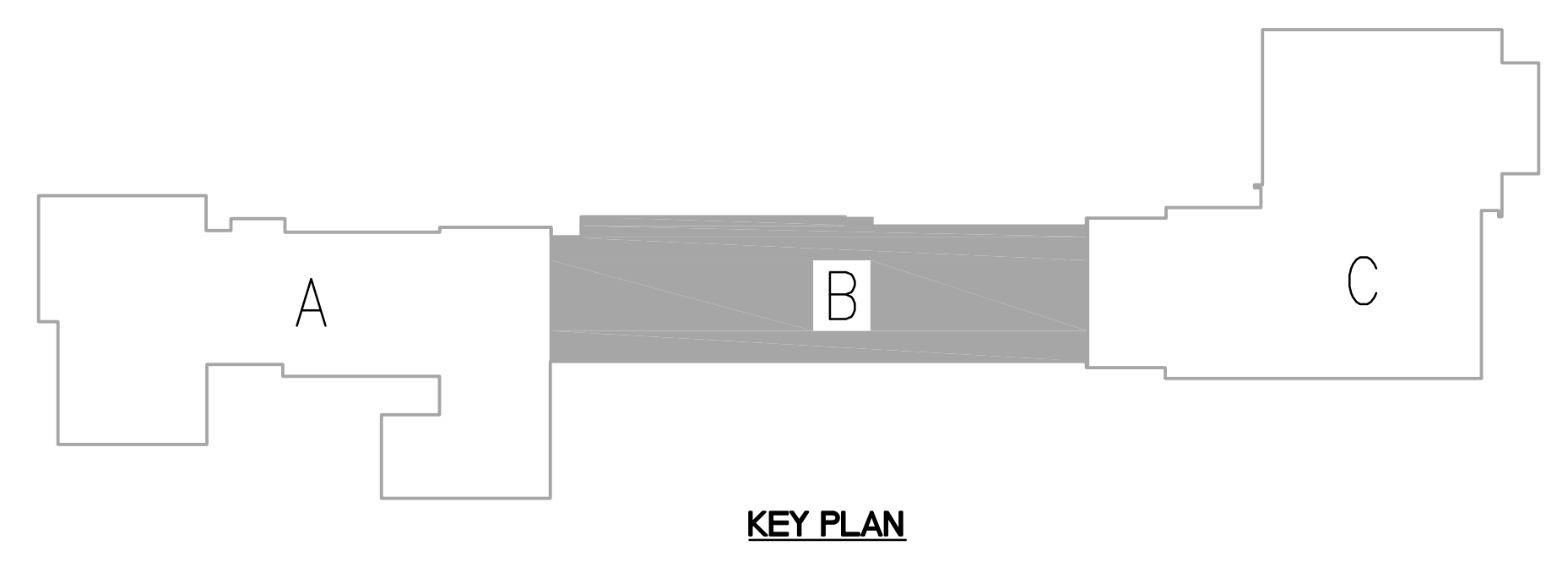
Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
EUBANK ELEMENTARY SCHOOL
Eubank, KY
FIRST FLOOR MECHANICAL DEMOLITION - AREA B

REVISIONS
DATE: 03.11.2022
DRAWN: BM, LA, HC, NT
CHECKED: CG

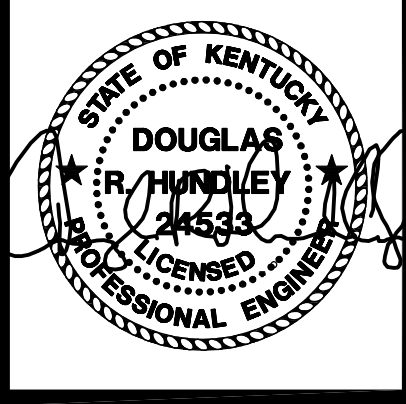
SET NO.

M1-
2.1B

- | | |
|--|---|
| <p>GENERAL DEMOLITION NOTES:</p> <ol style="list-style-type: none"> EXISTING GEOTHERMAL PIPING ROUTED UNDERSLAB TO EXISTING WELLFIELD IS TO REMAIN. PROVIDE INTERIOR SHUT-OFF VALVES AS REQUIRED. REFER TO NEW WORK PLANS AND DETAILS FOR MORE INFORMATION. CONTRACTOR RESPONSIBLE FOR VERIFYING PIPE FLOW DIRECTION AND PIPE SIZE FOR CONNECTION. WALL AND FLOOR PATCHING/PAINING: PATCH/FILL ALL WALL/FLOOR PENETRATIONS WHERE EXISTING MECHANICAL EQUIPMENT/PIPING/DUCTWORK IS REMOVED. COORDINATE ALL PATCH/FILL WORK WITH THE GENERAL CONTRACTOR. EXISTING PIPING DEMOLITION: ALL EXISTING PIPING INDICATED TO BE REMOVED, IS TO BE REMOVED COMPLETELY TO BEYOND FINISHED SURFACES. INACCESSIBLE PIPING BURRED IN EXISTING WALLS REMAINING AND CONCRETE SLABS MAY BE REMOVED IN PLACE. EXISTING THERMOSTAT/TEMPERATURE SENSOR/CONTROLS DEVICES: PROVIDE A STAINLESS STEEL COVER PLATE AT EXISTING OPENING IF LOCATION IS NOT BEING REUSED. COORDINATE ALL CONTROLS WORK WITH TOC. ALL GRILLES THAT ARE TO REMAIN SHALL BE CLEANED. ASBESTOS ABATEMENT: REFER TO GENERAL CONTRACTOR CONCERNING ALL ASBESTOS ABATEMENT ON THE PROJECT. THE OWNER WILL SALVAGE CERTAIN REMOVED EQUIPMENT. COORDINATE WITH THE GENERAL CONTRACTOR. | <p>MECHANICAL DEMOLITION NOTES:</p> <ol style="list-style-type: none"> EXISTING HEAT PUMP TO BE REMOVED COMPLETELY, INCLUDING ALL ASSOCIATED DUCTWORK, PIPING, CONDENSATE DRAIN AND PUMP (IF APPLICABLE), ELECTRICAL AND CONTROLS CONNECTIONS. PATCH WALL/FLOOR AS REQUIRED FOR COMPLETE EQUIPMENT REMOVAL. COORDINATE WALL AND FLOOR PATCHING WITH GENERAL CONTRACTOR. EXISTING LOUVER TO REMAIN. BLANK OFF THE INSIDE OF THE EXISTING LOUVER WITH SHEET METAL AND INSULATE WITH 2" RIGID INSULATION. COORDINATE LOUVER INFILL AND FINAL FINISHES WITH GENERAL CONTRACTOR. REFER TO SHEET M1-4.0 FOR ENLARGED PLAN OF GYM 126 PLATFORM DEMOLITION. EXISTING SUPPLY/RETURN/EXHAUST/OUTDOOR AIR DUCTWORK, GRILLES, AND RISER INDICATED TO BE REMOVED COMPLETELY. REMOVE ALL ASSOCIATED HANGERS/SUPPORTS/ACCESSORIES. PATCH WALLS/SLAB/CEILING AT DUCT OPENINGS (TYPICAL). REMOVE EXISTING CEILING MOUNTED EXHAUST FAN INCLUDING ALL ELECTRICAL AND CONTROLS CONNECTIONS (DISCONNECTS/SWITCHES/ETC). EXISTING EXHAUST RISER TO REMAIN. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION. EXISTING SPLIT SYSTEM AND ASSOCIATED OUTDOOR CONDENSING UNIT TO BE REMOVED COMPLETELY, INCLUDING ALL PIPING, CONDENSATE DRAIN AND PUMP (IF APPLICABLE), ELECTRICAL AND CONTROLS CONNECTIONS. REMOVE ALL ASSOCIATED HANGERS/SUPPORTS/ACCESSORIES. PATCH WALLS/SLAB/CEILING AT DUCT OPENINGS (TYPICAL). REMOVE EXISTING DUCT STATIC PRESSURE SENSOR ASSOCIATED WITH EXISTING RTU, AS REQUIRED FOR NEW CONTROLS. COORDINATE ALL CONTROLS SCOPE WITH TOC. EXISTING VAV CONTROLLER TO BE REPLACED. COORDINATE ALL CONTROLS SCOPE WITH TOC. TYPICAL OF ALL EXISTING VAV BOXES. |
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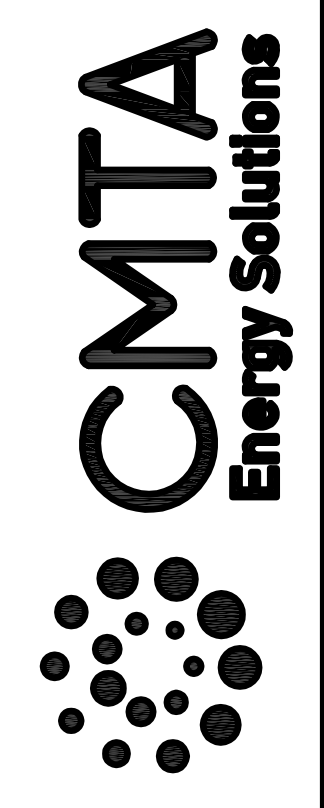


PARTIAL FIRST FLOOR PLAN (AREA B) - MECHANICAL DEMOLITION
SCALE: 1/8" = 1'-0" 1
M1-2.1B



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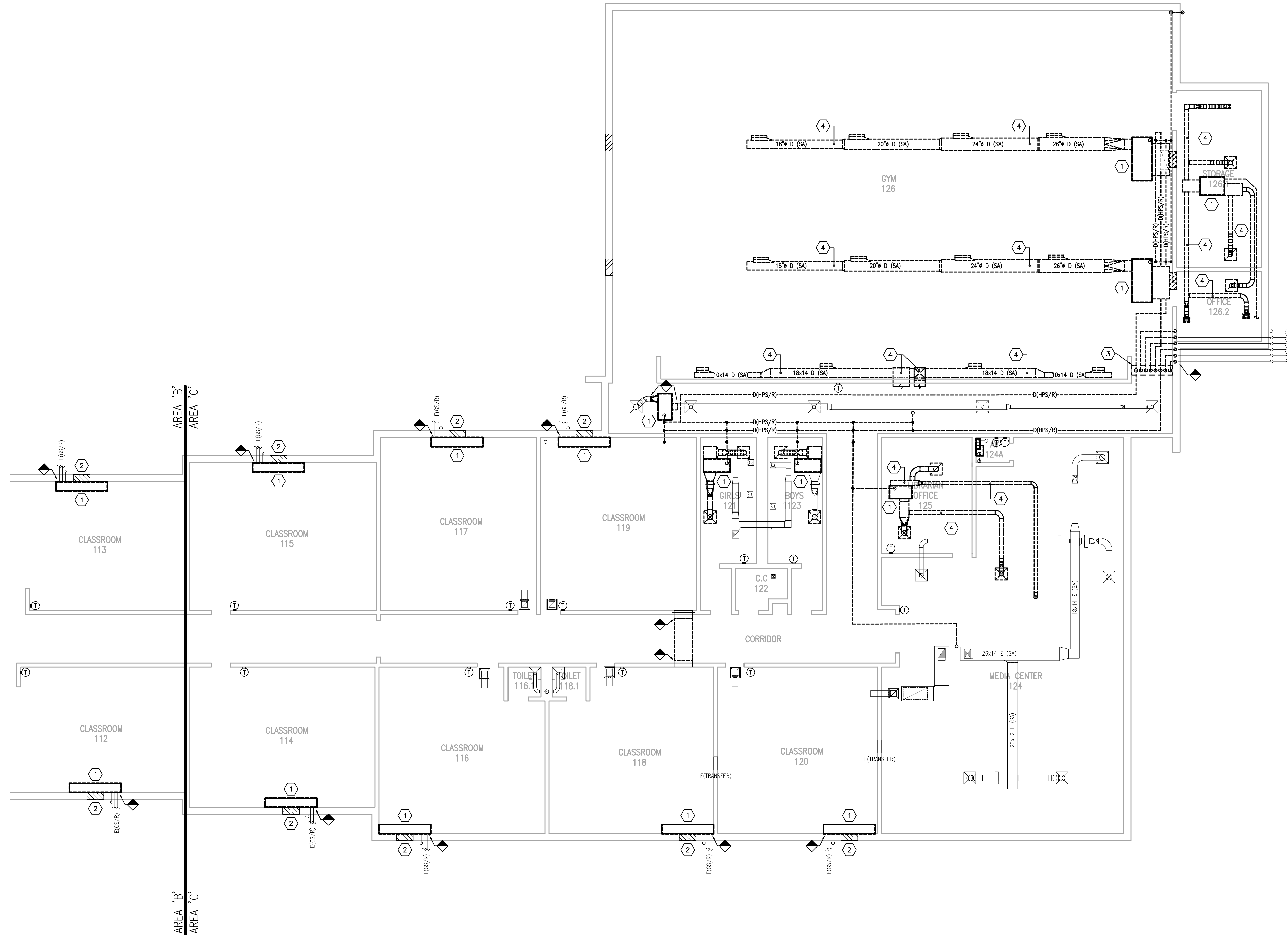
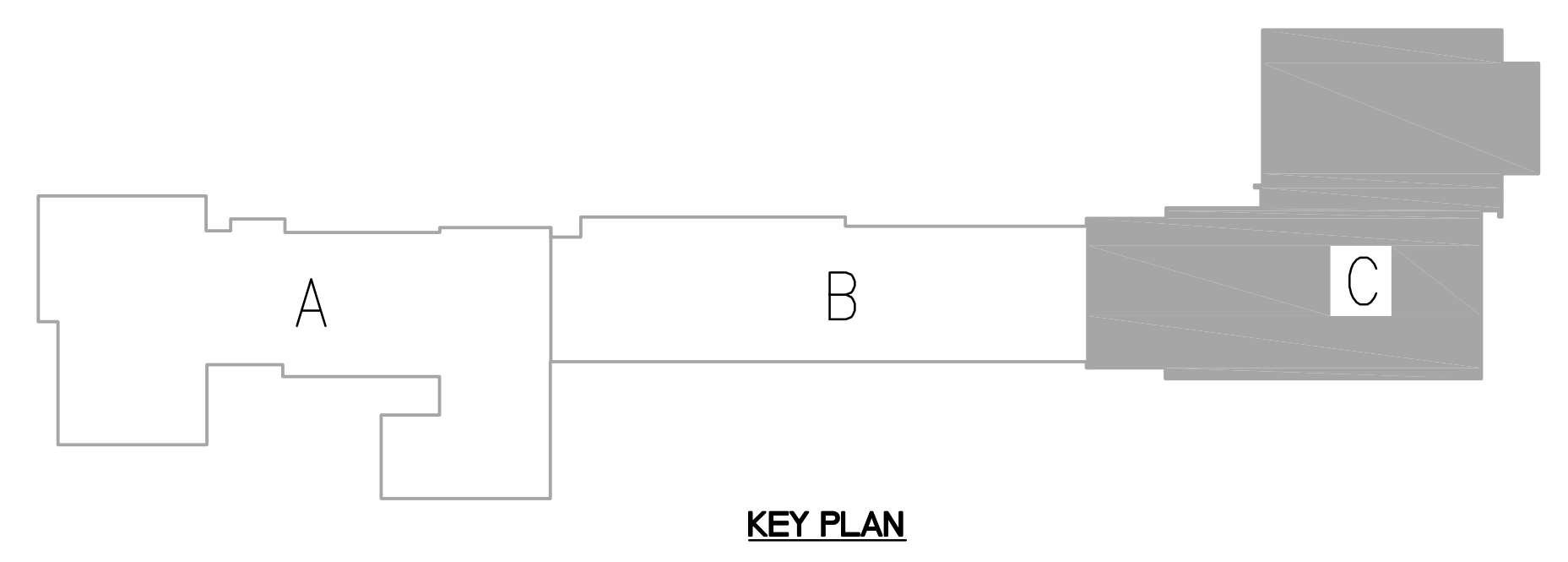
Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
EUBANK ELEMENTARY SCHOOL
Eubank, KY
FIRST FLOOR MECHANICAL DEMOLITION - AREA C

REVISIONS
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CHECKED: CG

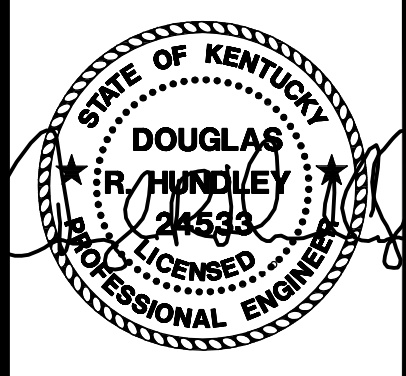
SET NO.

M1-
2.1C

- | | |
|---|--|
| <p>GENERAL DEMOLITION NOTES: (X)</p> <ol style="list-style-type: none"> EXISTING GEOTHERMAL PIPING ROUTED UNDERSLAB TO EXISTING WELLFIELD IS TO REMAIN. PROVIDE INTERIOR SHUT-OFF VALVES AS REQUIRED. REFER TO NEW WORK PLANS AND DETAILS FOR MORE INFORMATION. CONTRACTOR RESPONSIBLE FOR VERIFYING PIPE FLOW DIRECTION AND PIPE SIZE FOR CONNECTION. WALL AND FLOOR PATCHING/PAINING: PATCH/FILL ALL WALL/FLOOR PENETRATIONS WHERE EXISTING MECHANICAL EQUIPMENT/PIPING/DUCTWORK IS REMOVED. COORDINATE ALL PATCH/FILL WORK WITH THE GENERAL CONTRACTOR. EXISTING PIPING DEMOLITION: ALL EXISTING PIPING INDICATED TO BE REMOVED, IS TO BE REMOVED COMPLETELY TO BEYOND FINISHED SURFACES. INACCESSIBLE PIPING BURRED IN EXISTING WALLS REMAINING AND CONCRETE SLABS MAY BE REMOVED IN PLACE. EXISTING THERMOSTAT/TEMPERATURE SENSOR/CONTROLS DEVICES: PROVIDE A STAINLESS STEEL COVER PLATE AT EXISTING OPENING IF LOCATION IS NOT BEING REUSED. COORDINATE ALL CONTROLS WORK WITH TOC. ALL GRILLES THAT ARE TO REMAIN SHALL BE CLEANED. ASBESTOS ABATEMENT: REFER TO GENERAL CONTRACTOR CONCERNING ALL ASBESTOS ABATEMENT ON THE PROJECT. THE OWNER WILL SALVAGE CERTAIN REMOVED EQUIPMENT. COORDINATE WITH THE GENERAL CONTRACTOR. | <p>MECHANICAL DEMOLITION NOTES: (H)</p> <ol style="list-style-type: none"> EXISTING HEAT PUMP TO BE REMOVED COMPLETELY, INCLUDING ALL ASSOCIATED DUCTWORK, PIPING, CONDENSATE DRAIN AND PUMP (IF APPLICABLE), ELECTRICAL AND CONTROLS CONNECTIONS. PATCH WALL/FLOOR AS REQUIRED FOR COMPLETE EQUIPMENT REMOVAL. COORDINATE WALL AND FLOOR PATCHING WITH GENERAL CONTRACTOR. EXISTING LOUVER TO REMAIN. BLANK OFF THE INSIDE OF THE EXISTING LOUVER WITH SHEET METAL AND INSULATE WITH 2" RIGID INSULATION. COORDINATE LOUVER INFILL AND FINAL FINISHES WITH GENERAL CONTRACTOR. REFER TO SHEET M1-4.0 FOR ENLARGED PLAN OF GYM 126 PLATFORM DEMOLITION. EXISTING SUPPLY/RETURN/EXHAUST/OUTDOOR AIR DUCTWORK, GRILLES, AND RISER INDICATED TO BE REMOVED COMPLETELY. REMOVE ALL ASSOCIATED HANGERS/SUPPORTS/ACCESSORIES. PATCH WALLS/SLAB/CEILING AT DUCT OPENINGS (TYPICAL). REMOVE EXISTING CEILING MOUNTED EXHAUST FAN INCLUDING ALL ELECTRICAL AND CONTROLS CONNECTIONS (DISCONNECTS/SWITCHES/ETC). EXISTING EXHAUST RISER TO REMAIN. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION. EXISTING SPLIT SYSTEM AND ASSOCIATED OUTDOOR CONDENSING UNIT TO BE REMOVED COMPLETELY, INCLUDING ALL PIPING, CONDENSATE DRAIN AND PUMP (IF APPLICABLE), ELECTRICAL AND CONTROLS CONNECTIONS. REMOVE ALL ASSOCIATED HANGERS/SUPPORTS/ACCESSORIES. PATCH WALLS/SLAB/CEILING AT DUCT OPENINGS (TYPICAL). REMOVE EXISTING DUCT STATIC PRESSURE SENSOR ASSOCIATED WITH EXISTING RTU, AS REQUIRED FOR NEW CONTROLS. COORDINATE ALL CONTROLS SCOPE WITH TOC. EXISTING VAV CONTROLLER TO BE REPLACED. COORDINATE ALL CONTROLS SCOPE WITH TOC. TYPICAL OF ALL EXISTING VAV BOXES. |
|---|--|

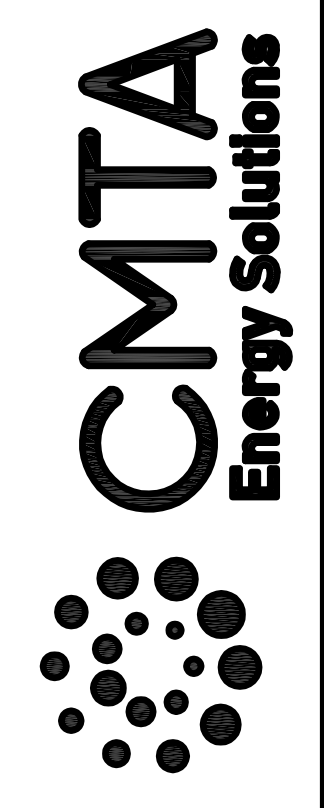


PARTIAL FIRST FLOOR PLAN (AREA C) - MECHANICAL DEMOLITION
 SCALE: 1/8" = 1'-0"
 1
 M1-2.1C



BID SET

9519 Civic Way, Suite 100
Prospect, KY 40059
T: 502 4094062, F: 502 9191521
M.Brangser@CMTA.COM



Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
EUBANK ELEMENTARY SCHOOL
Eubank, KY

ROOF MECHANICAL DEMOLITION

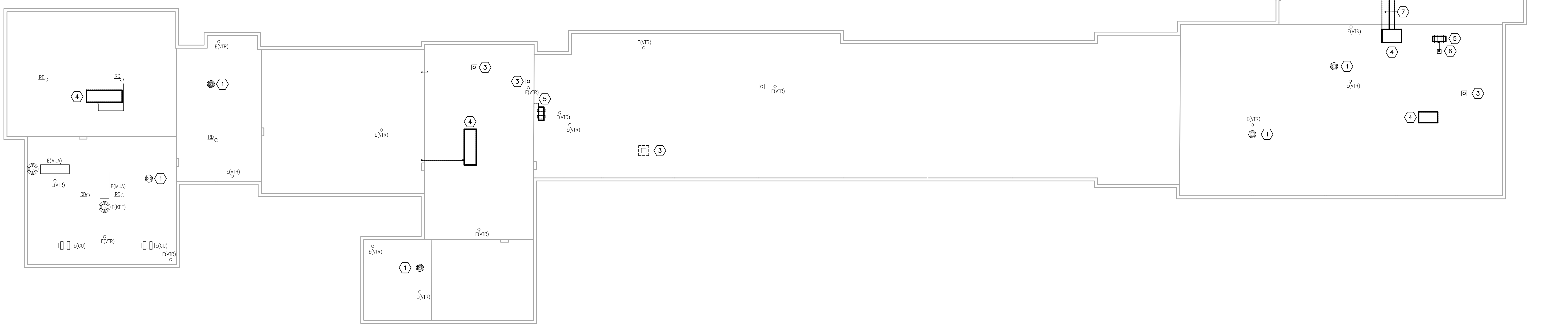
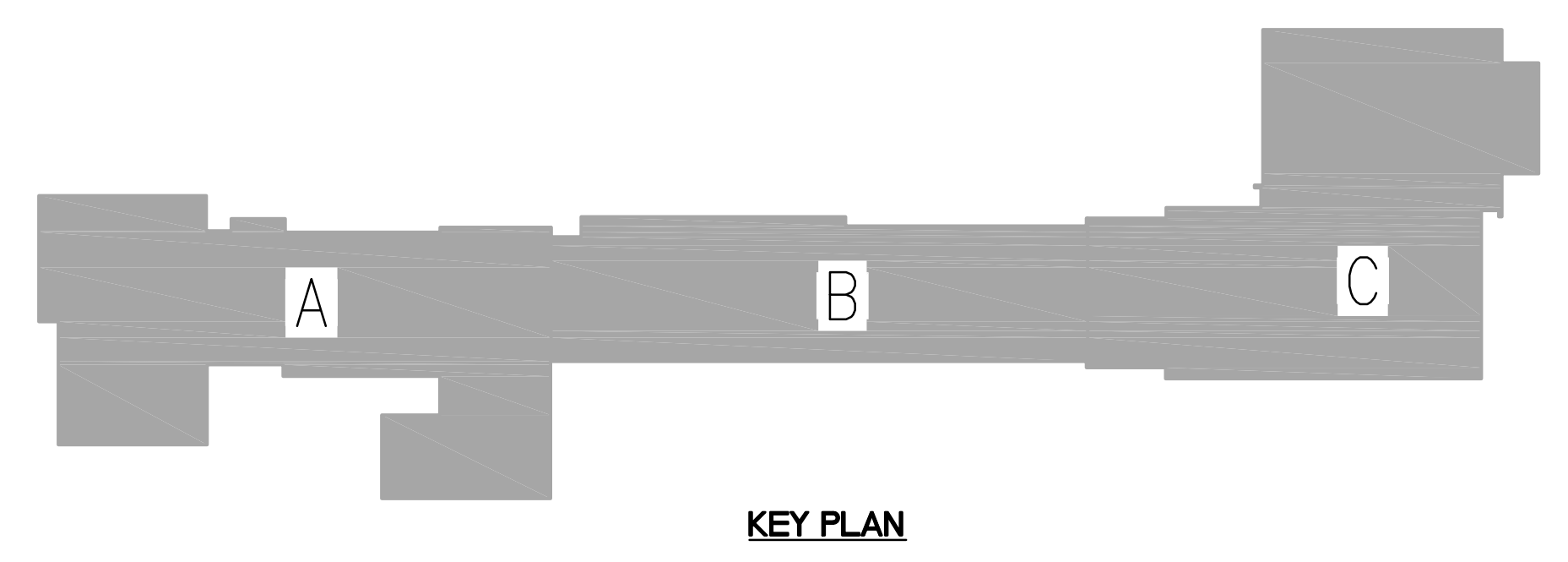
REVISIONS

DATE: 03.11.2022
DRAWN: BM, LA, HC, NT
CHECKED: CG

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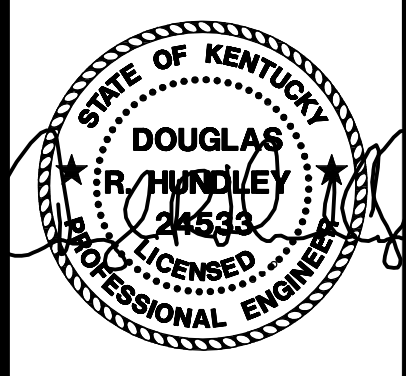
M1-
2.2

- MECHANICAL DEMOLITION NOTES - ROOF:
- EXISTING EXHAUST FAN TO BE REMOVED COMPLETELY, INCLUDING ALL MECHANICAL, ELECTRICAL, AND CONTROLS CONNECTIONS (DISCONNECTS/SWITCHES/ETC). EXISTING ROOF CURB AND DUCTWORK RESEAL TO REMAIN.
 - OMIT.
 - EXISTING RELIEF/EXHAUST/INTAKE AIR VENT TO BE REMOVED COMPLETELY. THE ROOF CURB IS TO BE CAPPED, REFER TO DETAIL ON SHEET M-6.2.
 - EXISTING ROOFTOP UNIT TO BE REMOVED COMPLETELY INCLUDING ALL ASSOCIATED PIPING, ELECTRICAL AND CONTROLS CONNECTIONS. EXISTING ROOF CURB TO REMAIN.
 - EXISTING CONDENSING UNIT TO BE REMOVED COMPLETELY, INCLUDING ALL PIPING, ELECTRICAL AND CONTROLS CONNECTIONS. EXISTING EQUIPMENT CURB/RAILS TO BE REMOVED COMPLETELY. PATCH ROOF AS REQUIRED.
 - REMOVE/CAP EXISTING PIPING PORTAL AND EQUIPMENT RAILS IF NOT BEING REUSED. PATCH ROOF AS REQUIRED.
 - EXISTING DUCTWORK TO BE REMOVED COMPLETELY, INCLUDING ALL SUPPORTS.



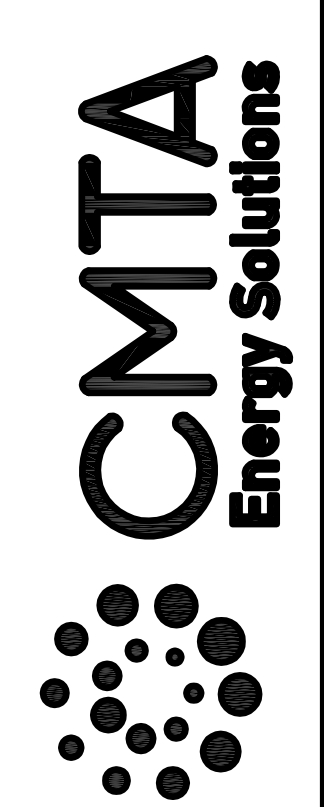
ROOF PLAN - MECHANICAL DEMOLITION
SCALE: 1/16" = 1'-0"

1
M1-2.2



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Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
EUBANK ELEMENTARY SCHOOL
Eubank, KY
FIRST FLOOR MECHANICAL - AREA A

REVISIONS
DATE: 03.11.2022
DRAWN: BM, LA, HC, NT
CHECKED: CG

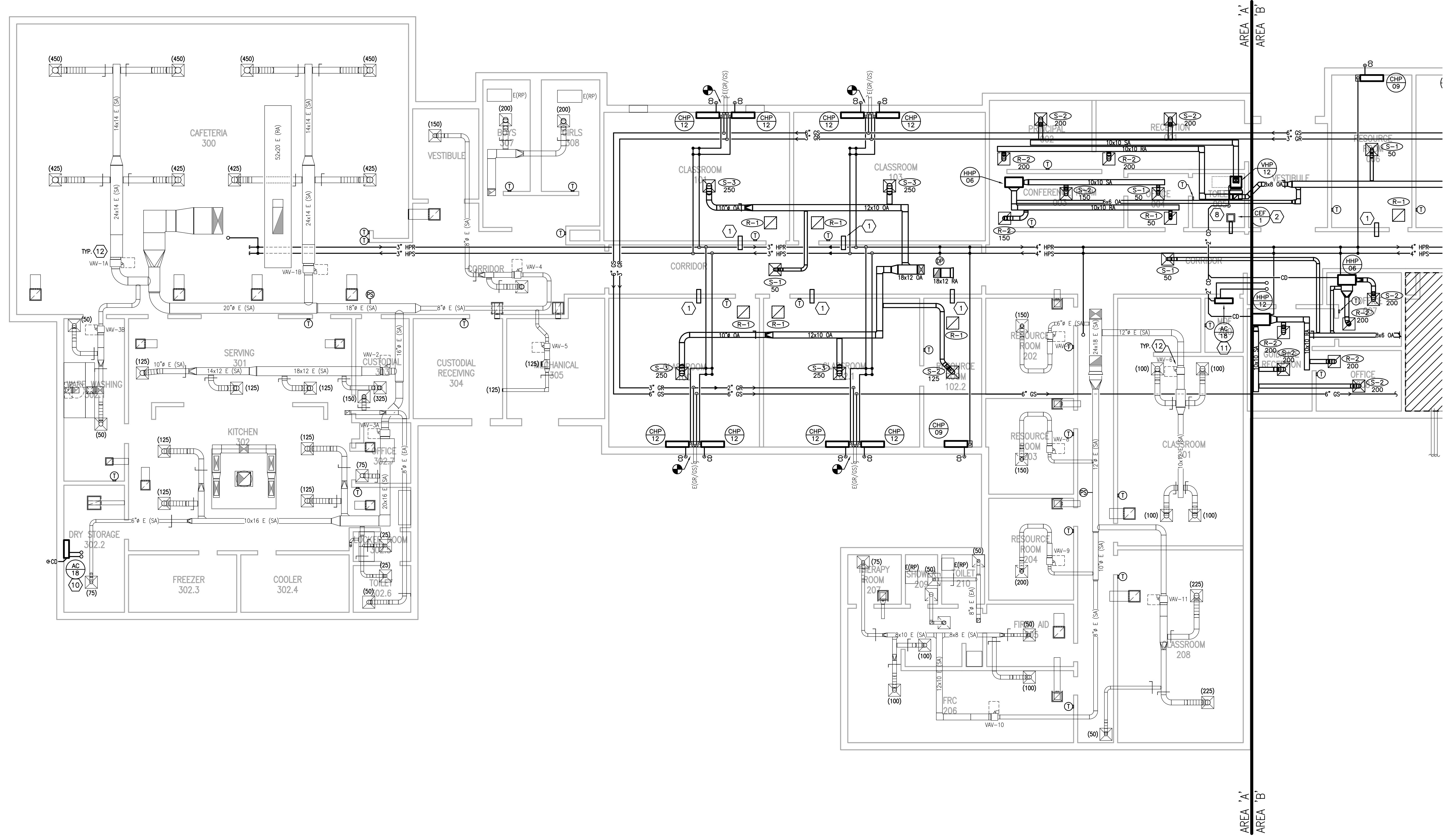
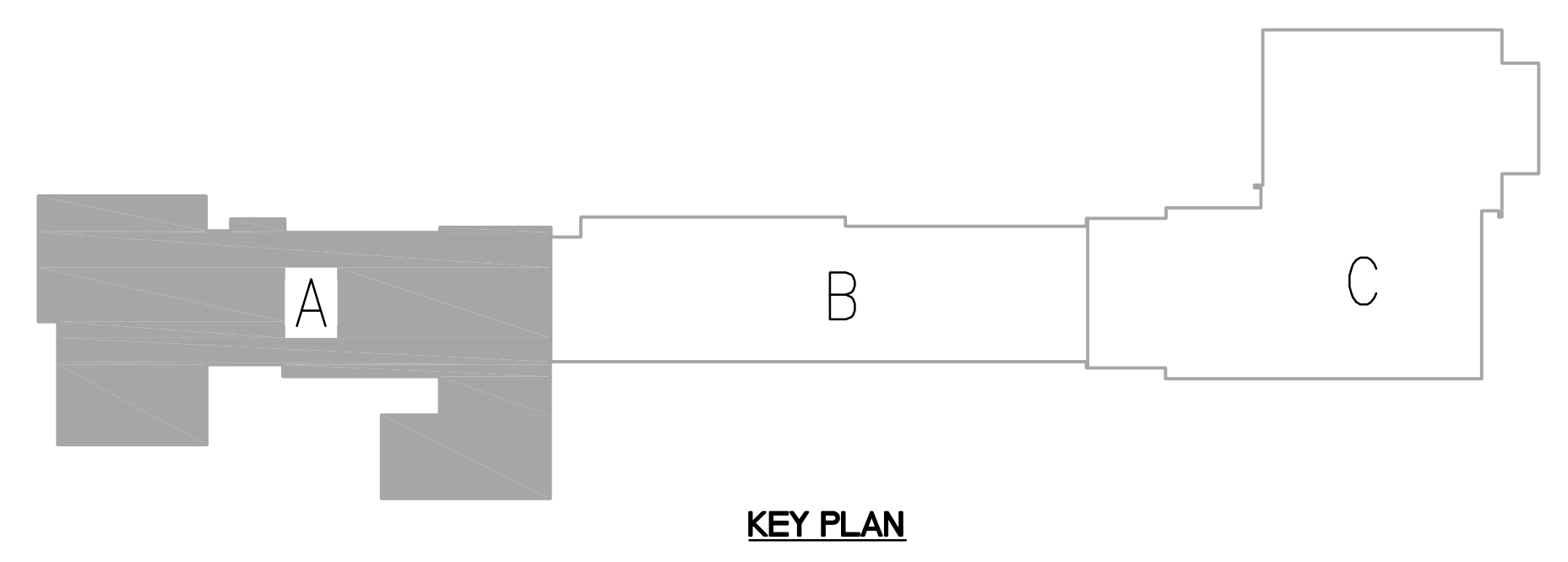
SET NO.

M1-
3.1A

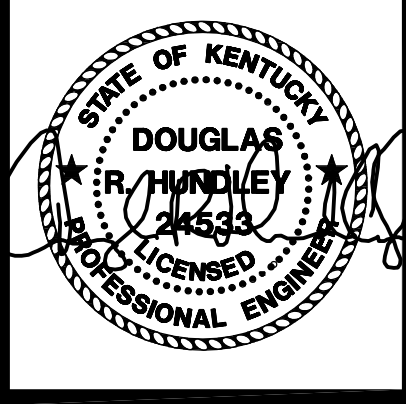
EXISTING VAV DESIGN AIRFLOW			
TAG	AIRFLOW	TAG	AIRFLOW
VAV-1A	2000 CFM	VAV-6	1204 CFM
VAV-1B	2000 CFM	VAV-7	180 CFM
VAV-2	1385 CFM	VAV-8	180 CFM
VAV-3A	1527 CFM	VAV-9	180 CFM
VAV-3B	300 CFM	VAV-10	540 CFM
VAV-4	560 CFM	VAV-11	785 CFM
VAV-5	245 CFM		

- GENERAL NOTES:
- EXISTING GEOTHERMAL PIPING ROUTED UNDERSLAB TO EXISTING WELLFIELD IS TO REMAIN. PROVIDE INTERIOR SHUT-OFF VALVES AS REQUIRED. REFER TO DETAILS FOR MORE INFORMATION.
 - CONTRACTOR RESPONSIBLE FOR VERIFYING PIPE FLOW DIRECTION AND PIPE SIZE FOR CONNECTION.
 - HEAT PUMP INSTALLATION - REFER TO DETAILS ON SHEET M-6.1 FOR PIPE CHASE INFORMATION AND VALVE KIT INFORMATION/ LOCATIONS.
 - PROVIDE A HIGH EFFICIENCY TAKE-OFF AND VOLUME DAMPER AT EACH GRILLE, REGISTER, AND DIFFUSER BRANCH RUNOUT, TYPICAL OF ALL UNLESS DAMPER LOCATION IS SHOWN ON FLOOR PLANS. REFER TO THE DETAIL ON SHEET M-6.0 FOR SPECIFIC REQUIREMENTS.
 - R-1 GRILLE, REFER TO THE RETURN AIR CANOPY DETAIL ON SHEET M-6.0.
 - FOR ALL DUCTS OPEN TO PLENUM SPACE, PROVIDE A 1/2" MESH SCREEN ON THE DUCT OPENING.
 - COORDINATE INSTALLATION OF DUCT MOUNTED SMOKE DETECTORS WITH ELECTRICAL CONTRACTOR.
 - FIRE DAMPER; REFER TO THE DETAIL ON SHEET M-6.0.
 - BALANCE ALL DAMPERS (NEW AND EXISTING) TO CFM LISTED ON THE DRAWING - COORDINATE WITH TAB CONTRACTOR.
 - TEMPERATURE CONTROL PANELS (TCP) - COORDINATE LOCATION AND REQUIREMENTS WITH TCC AND ELECTRICAL CONTRACTOR.
 - ALL GRILLES THAT ARE TO REMAIN SHALL BE CLEANED.

- MECHANICAL NOTES:
- PROVIDE A 8"x8" SHEET METAL SLEEVE IN WALL ABOVE THE CEILING FOR RETURN AIR PATH.
 - DISCHARGE 8"Ø DUCT ABOVE CEILING.
 - PROVIDE ESCUTCHEON PLATE AT DUCT PENETRATION.
 - EXPOSED DUCTWORK/PIPING TO HAVE CANVAS JACKET AND PAINTED. ALL ASSOCIATED STRUCTURAL BRACING/HANGERS/SUPPORTS TO BE PAINTED TO MATCH ADJACENT SURFACES. TURN DUCTWORK UP WALL AND TRANSITION TO DOUBLE WALL DUCTWORK AT LOCATION INDICATED.
 - PROVIDE PAINT GRP DUCTWORK TO ALLOW EXPOSED DUCTWORK TO BE PAINTED. ALL ASSOCIATED STRUCTURAL BRACING/HANGERS TO BE PAINTED TO MATCH ADJACENT SURFACES. TURN DUCTWORK UP WALL AND MOUNT GRILLES IN FACE OF DUCTWORK.
 - EXPOSED ROUND/OVAL DUCTWORK TO BE DOUBLE WALL DUCT AND PAINTED. ALL STRUCTURAL BRACING FOR DUCTWORK TO BE PAINTED TO MATCH EXISTING SURFACES. NO DUCT SEALANT TO BE USED ON DUCTWORK TO BE PAINTED. SUPPORT WITH AIRCRAFT CABLES AND SELF-TIGHTENING LOCKS.
 - DIFFUSERS SHALL BE INSTALLED AT A 45° ANGLE TOWARDS THE FLOOR. TYPICAL OF ALL DIFFUSERS.
 - SPILL CONDENSATE TO EXISTING FLOOR DRAIN/MOP SINK IN THIS AREA.
 - PROVIDE FULL SIZE ISOLATION VALVES, 3/4" VALVED DRAIN LINES IN PIPING WITH THREADED HOSE CONNECTION AND CAP ON DRAIN LINE.
 - COORDINATE MOUNTING HEIGHT OF AC UNIT WITH GENERAL CONTRACTOR. ROUTE REFRIGERANT PIPING UP TO ROOF MOUNTED CONDENSING UNIT THROUGH NEW PIPING PORTAL. REFER TO ROOF PLAN FOR ADDITIONAL INFORMATION. FASTEN CONDENSATE TO WALL WITH TWO HOLE TRAP AND SPILL TO GRADE.
 - COORDINATE MOUNTING HEIGHT OF AC UNIT WITH GENERAL CONTRACTOR. ROUTE REFRIGERANT PIPING UP TO ROOF MOUNTED CONDENSING UNIT THROUGH NEW PIPING PORTAL. REFER TO ROOF PLAN FOR ADDITIONAL INFORMATION. PROVIDE CONDENSATE PUMP FOR UNIT. PUMP SHALL BE LITTLE GANT MODEL VDMA WITH 1/2 GALLON TANK AND OVERFLOW SWITCH. ELECTRICAL DATA: 1/2 HP MOTOR, 120V/1Ø/60 HZ.
 - EXISTING VAV CONTROLLER TO BE REPLACED. COORDINATE ALL CONTROLS SCOPE WITH TCC. TYPICAL OF ALL EXISTING VAV BOXES.

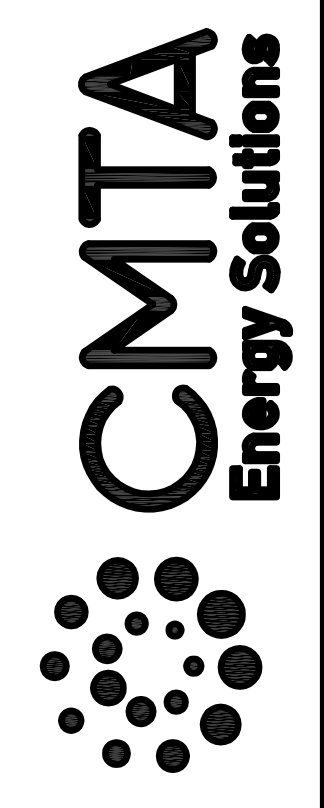


PARTIAL FIRST FLOOR PLAN (AREA A) - MECHANICAL
SCALE: 1/8" = 1'-0"
1
M1-3.1A



BID SET

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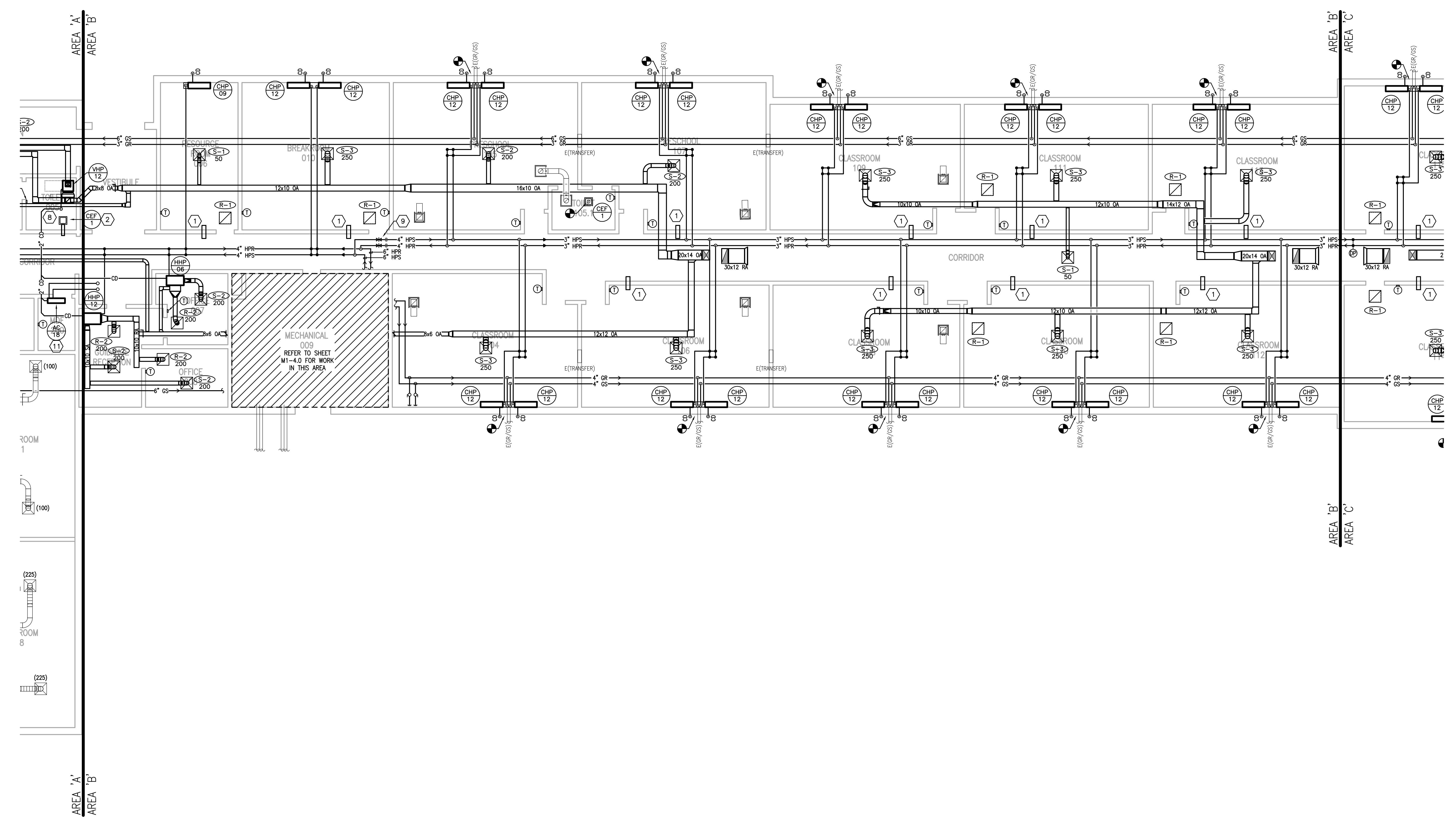
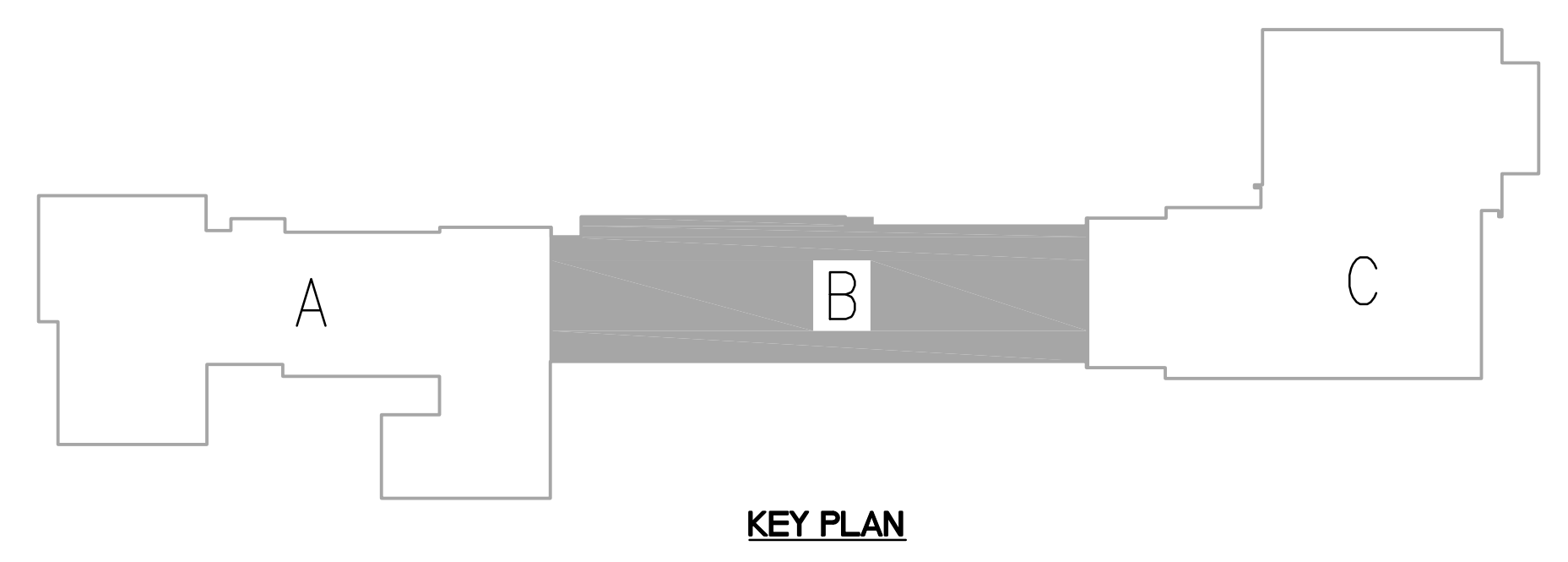
Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
EUBANK ELEMENTARY SCHOOL
Eubank, KY
FIRST FLOOR MECHANICAL - AREA B

REVISIONS
DATE: 03.11.2022
DRAWN: BM, LA, HC, NT
CHECKED: CC

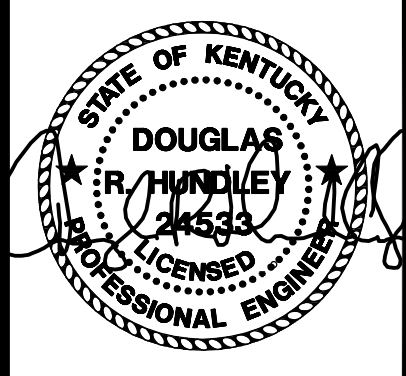
SET NO.

M1-
3.1B

- | GENERAL NOTES: | MECHANICAL NOTES: |
|--|---|
| A. EXISTING GEOTHERMAL PIPING ROUTED UNDERSLAB TO EXISTING WELLFIELD IS TO REMAIN. PROVIDE INTERIOR SHUT-OFF VALVES AS REQUIRED. REFER TO DETAILS FOR MORE INFORMATION. | 1. PROVIDE A 8"x8" SHEET METAL SLEEVE IN WALL ABOVE THE CEILING FOR RETURN AIR PATH. |
| B. CONTRACTOR RESPONSIBLE FOR VERIFYING PIPE FLOW DIRECTION AND PIPE SIZE FOR CONNECTION. | 2. DISCHARGE 8"Ø DUCT ABOVE CEILING. |
| C. HEAT PUMP INSTALLATION - REFER TO DETAILS ON SHEET M-6.1 FOR PIPE CHASE INFORMATION AND VALVE KIT INFORMATION/ LOCATIONS. | 3. PROVIDE ESCUTCHEON PLATE AT DUCT PENETRATION. |
| D. PROVIDE A HIGH EFFICIENCY TAKE-OFF AND VOLUME DAMPER AT EACH GRILLE, REGISTER, AND DIFFUSER BRANCH RUNOUT, TYPICAL OF ALL UNLESS DAMPER LOCATION IS SHOWN ON FLOOR PLANS. REFER TO THE DETAIL ON SHEET M-6.0 FOR SPECIFIC REQUIREMENTS. | 4. EXPOSED DUCTWORK/PIPING TO HAVE GASKET JACKET AND PAINTED. ALL ASSOCIATED STRUCTURAL/PIPING BRACING/HANGERS/SUPPORTS TO BE PAINTED TO MATCH ADJACENT SURFACES. TURN DUCTWORK UP WALL AND TRANSITION TO DOUBLE WALL DUCTWORK AT LOCATION INDICATED. |
| E. R-1 GRILLE, REFER TO THE RETURN AIR CANOPY DETAIL ON SHEET M-6.0. | 5. PROVIDE PAINT GRP DUCTWORK TO ALLOW EXPOSED DUCTWORK TO BE PAINTED. ALL ASSOCIATED STRUCTURAL BRACING/HANGERS TO BE PAINTED TO MATCH ADJACENT SURFACES. TURN DUCTWORK UP WALL AND MOUNT GRILLES IN FACE OF DUCTWORK. |
| F. FOR ALL DUCTS OPEN TO PLENUM SPACE, PROVIDE A 1/2" MESH SCREEN ON THE DUCT OPENING. | 6. EXPOSED ROUND/OVAL DUCTWORK TO BE DOUBLE WALL DUCT AND PAINTED. ALL STRUCTURAL BRACING FOR DUCTWORK TO BE PAINTED TO MATCH EXISTING SURFACES. NO DUCT SEALANT TO BE USED ON DUCTWORK TO BE PAINTED. SUPPORT WITH AIRCRAFT CABLES AND SELF-TIGHTENING LOCKS. |
| G. COORDINATE INSTALLATION OF DUCT MOUNTED SMOKE DETECTORS WITH ELECTRICAL CONTRACTOR. | 7. DIFFUSERS SHALL BE INSTALLED AT A 45° ANGLE TOWARDS THE FLOOR. TYPICAL OF ALL DIFFUSERS. |
| H. FIRE DAMPER; REFER TO THE DETAIL ON SHEET M-6.0. | 8. SPILL CONDENSATE TO EXISTING FLOOR DRAIN/MOP SINK IN THIS AREA. |
| I. BALANCE ALL DAMPERS (NEW AND EXISTING) TO CFM LISTED ON THE DRAWING - COORDINATE WITH TAB CONTRACTOR. | 9. PROVIDE FULL SIZE ISOLATION VALVES, 3/4" VALVED DRAIN LINES IN PIPING WITH THREADED HOSE CONNECTION AND CAP ON DRAIN LINE. |
| J. TEMPERATURE CONTROL PANELS (TCP) - COORDINATE LOCATION AND REQUIREMENTS WITH TCC AND ELECTRICAL CONTRACTOR. | 10. COORDINATE MOUNTING HEIGHT OF AC UNIT WITH GENERAL CONTRACTOR. ROUTE REFRIGERANT PIPING UP TO ROOF MOUNTED CONDENSING UNIT THROUGH NEW PIPING PORTAL, REFER TO ROOF PLAN FOR ADDITIONAL INFORMATION. FASTEN CONDENSATE TO WALL WITH TWO HOLE TRAP AND SPILL TO GRADE. |
| K. ALL GRILLES THAT ARE TO REMAIN SHALL BE CLEANED. | 11. COORDINATE MOUNTING HEIGHT OF AC UNIT WITH GENERAL CONTRACTOR. ROUTE REFRIGERANT PIPING UP TO ROOF MOUNTED CONDENSING UNIT THROUGH NEW PIPING PORTAL, REFER TO ROOF PLAN FOR ADDITIONAL INFORMATION. PROVIDE CONDENSATE PUMP FOR UNIT. PUMP SHALL BE LITTLE GANT MODEL VDMA WITH 1/2 GALLON TANK AND OVERFLOW SWITCH. ELECTRICAL DATA: 1/2 HP MOTOR, 120V/14/60 HZ. |
| | 12. EXISTING VAV CONTROLLER TO BE REPLACED. COORDINATE ALL CONTROLS SCOPE WITH TCC. TYPICAL OF ALL EXISTING VAV BOXES. |

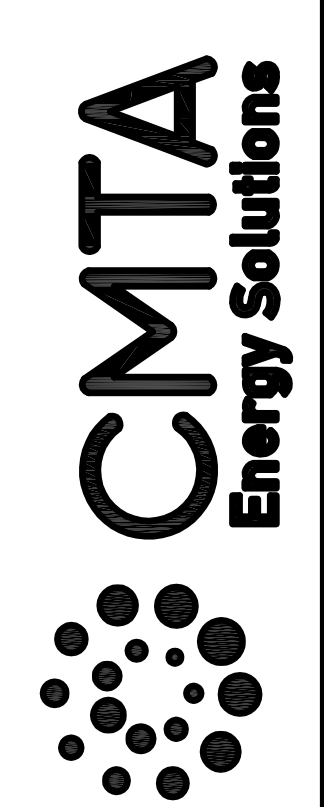


PARTIAL FIRST FLOOR PLAN (AREA B) - MECHANICAL
SCALE: 1/8" = 1'-0" 1
M1-3.1B



BID SET

9519 Civic Way, Suite 100
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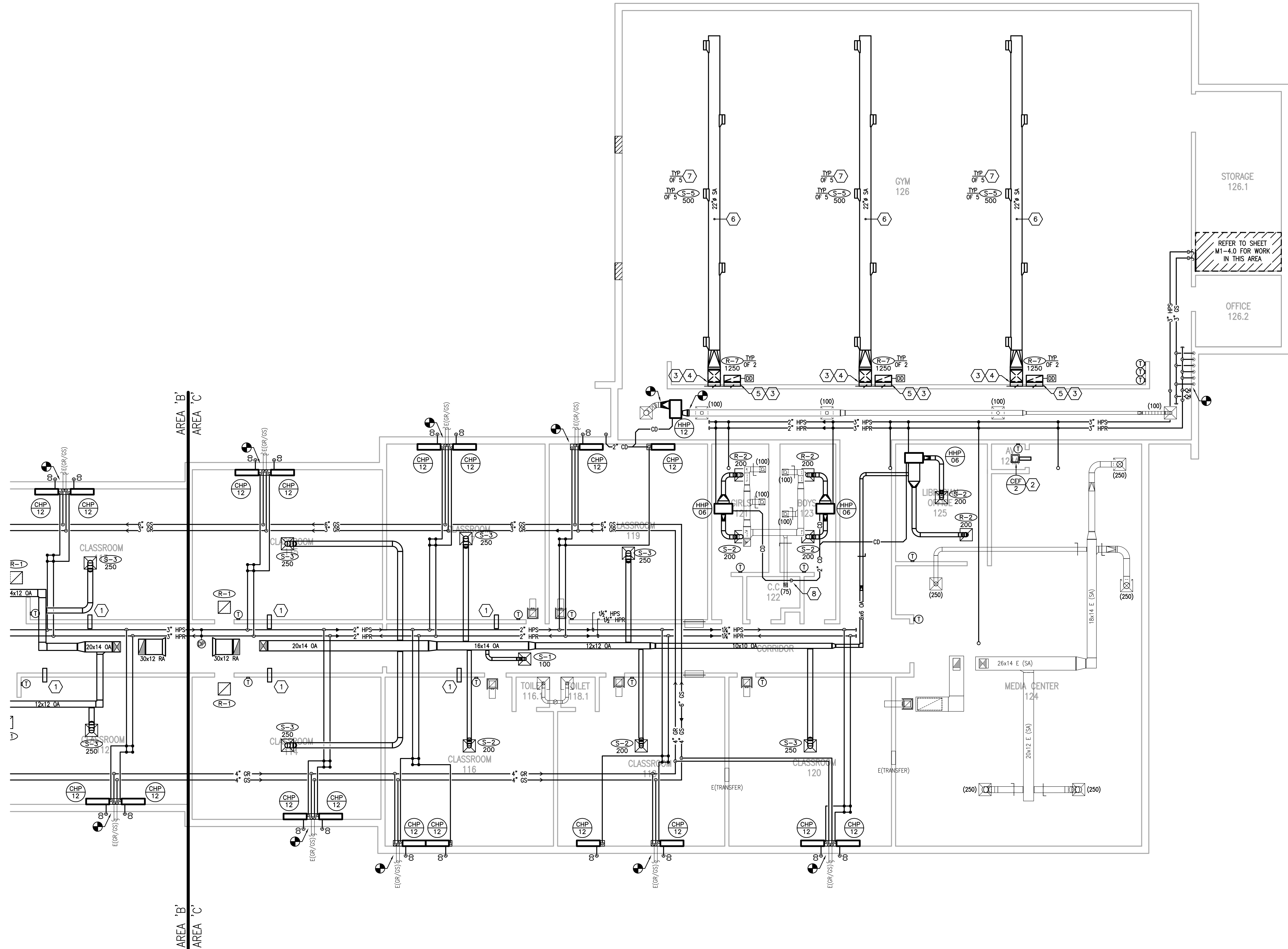
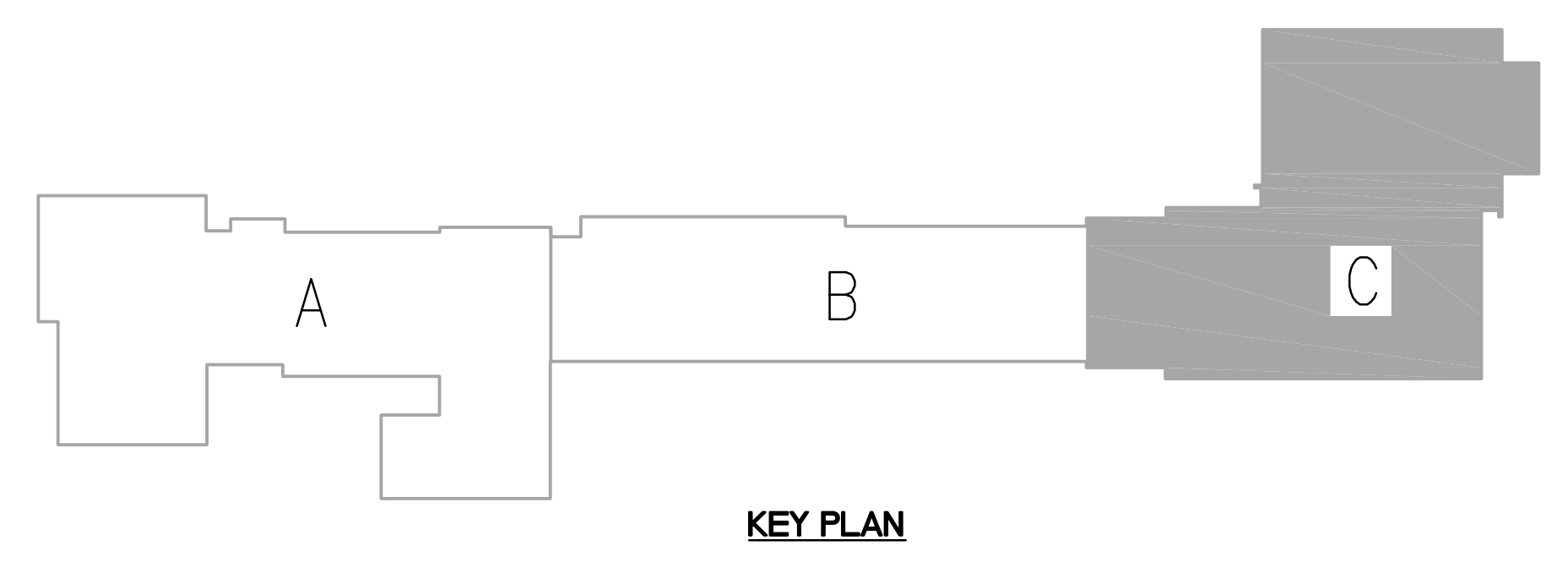
Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
EUBANK ELEMENTARY SCHOOL
Eubank, KY
FIRST FLOOR MECHANICAL - AREA C

REVISIONS
DATE: 03.11.2022
DRAWN: BM, LA, HC, NT
CHECKED: CG

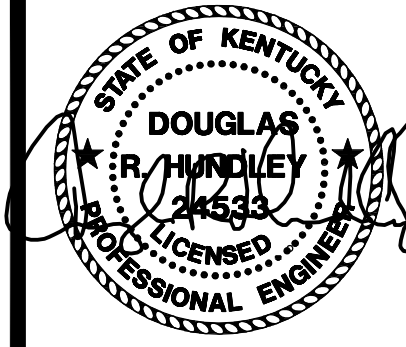
SET NO.

M1-
3.1C

- | GENERAL NOTES: | MECHANICAL NOTES: |
|---|--|
| <p>A. EXISTING GEOTHERMAL PIPING ROUTED UNDERSLAB TO EXISTING WELLFIELD IS TO REMAIN. PROVIDE INTERIOR SHUT-OFF VALVES AS REQUIRED. REFER TO DETAILS FOR MORE INFORMATION.</p> <p>B. CONTRACTOR RESPONSIBLE FOR VERIFYING PIPE FLOW DIRECTION AND PIPE SIZE FOR CONNECTION.</p> <p>C. HEAT PUMP INSTALLATION - REFER TO DETAILS ON SHEET M-6.1 FOR PIPE CHASE INFORMATION AND VALVE KIT INFORMATION/ LOCATIONS.</p> <p>D. PROVIDE A HIGH EFFICIENCY TAKE-OFF AND VOLUME DAMPER AT EACH GRILLE, REGISTER, AND DIFFUSER BRANCH RUNOUT, TYPICAL OF ALL UNLESS DAMPER LOCATION IS SHOWN ON FLOOR PLANS. REFER TO THE DETAIL ON SHEET M-6.0 FOR SPECIFIC REQUIREMENTS.</p> <p>E. R-1 GRILLE, REFER TO THE RETURN AIR CANOPY DETAIL ON SHEET M-6.0.</p> <p>F. FOR ALL DUCTS OPEN TO PLENUM SPACE, PROVIDE A 1/2" MESH SCREEN ON THE DUCT OPENING.</p> <p>G. COORDINATE INSTALLATION OF DUCT MOUNTED SMOKE DETECTORS WITH ELECTRICAL CONTRACTOR.</p> <p>H. FIRE DAMPER; REFER TO THE DETAIL ON SHEET M-6.0.</p> <p>I. BALANCE ALL DAMPERS (NEW AND EXISTING) TO CFM LISTED ON THE DRAWING - COORDINATE WITH TAB CONTRACTOR.</p> <p>J. TEMPERATURE CONTROL PANELS (TCP) - COORDINATE LOCATION AND REQUIREMENTS WITH TCC AND ELECTRICAL CONTRACTOR.</p> <p>K. ALL GRILLES THAT ARE TO REMAIN SHALL BE CLEANED.</p> | <p>1. PROVIDE A 8"x8" SHEET METAL SLEEVE IN WALL ABOVE THE CEILING FOR RETURN AIR PATH.</p> <p>2. DISCHARGE 8"Ø DUCT ABOVE CEILING.</p> <p>3. PROVIDE ESCUTCHEON PLATE AT DUCT PENETRATION.</p> <p>4. EXPOSED DUCTWORK/PIPING TO HAVE CANVAS JACKET AND PAINTED. ALL ASSOCIATED STRUCTURAL BRACING/HANGERS/SUPPORTS TO BE PAINTED TO MATCH ADJACENT SURFACES. TURN DUCTWORK UP WALL AND TRANSITION TO DOUBLE WALL DUCTWORK AT LOCATION INDICATED.</p> <p>5. PROVIDE PAINT GRP DUCTWORK TO ALLOW EXPOSED DUCTWORK TO BE PAINTED. ALL ASSOCIATED STRUCTURAL BRACING/HANGERS TO BE PAINTED TO MATCH ADJACENT SURFACES. TURN DUCTWORK UP WALL AND MOUNT GRILLES IN FACE OF DUCTWORK.</p> <p>6. EXPOSED ROUND/OVAL DUCTWORK TO BE DOUBLE WALL DUCT AND PAINTED. ALL STRUCTURAL BRACING FOR DUCTWORK TO BE PAINTED TO MATCH EXISTING SURFACES. NO DUCT SEALANT TO BE USED ON DUCTWORK TO BE PAINTED. SUPPORT WITH AIRCRAFT CABLES AND SELF-TIGHTENING LOCKS.</p> <p>7. DIFFUSERS SHALL BE INSTALLED AT A 45° ANGLE TOWARDS THE FLOOR. TYPICAL OF ALL DIFFUSERS.</p> <p>8. SPILL CONDENSATE TO EXISTING FLOOR DRAIN/MOP SINK IN THIS AREA.</p> <p>9. PROVIDE FULL SIZE ISOLATION VALVES, 3/4" VALVED DRAIN LINES IN PIPING WITH THREADED HOSE CONNECTION AND CAP ON DRAIN LINE.</p> <p>10. COORDINATE MOUNTING HEIGHT OF AC UNIT WITH GENERAL CONTRACTOR. ROUTE REFRIGERANT PIPING UP TO ROOF MOUNTED CONDENSING UNIT THROUGH NEW PIPING PORTAL, REFER TO ROOF PLAN FOR ADDITIONAL INFORMATION. FASTEN CONDENSATE TO WALL WITH TWO HOLE TRAP AND SPILL TO GRADE.</p> <p>11. COORDINATE MOUNTING HEIGHT OF AC UNIT WITH GENERAL CONTRACTOR. ROUTE REFRIGERANT PIPING UP TO ROOF MOUNTED CONDENSING UNIT THROUGH NEW PIPING PORTAL, REFER TO ROOF PLAN FOR ADDITIONAL INFORMATION. PROVIDE CONDENSATE PUMP FOR UNIT. PUMP SHALL BE LITTLE GANT MODEL VCMA WITH 1/2 GALLON TANK AND OVERFLOW SWITCH. ELECTRICAL DATA: 1/2 HP MOTOR, 120V/1Ø/60 HZ.</p> <p>12. EXISTING VAV CONTROLLER TO BE REPLACED. COORDINATE ALL CONTROLS SCOPE WITH TCC. TYPICAL OF ALL EXISTING VAV BOXES.</p> |

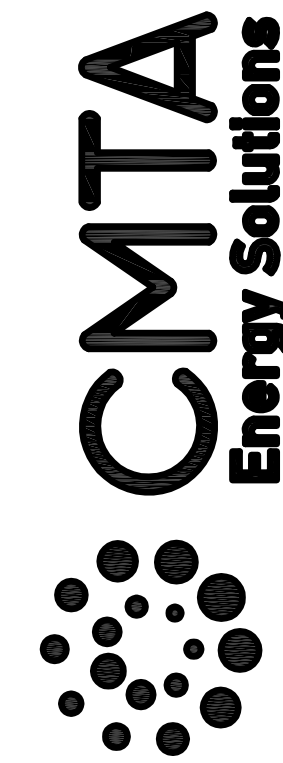


PARTIAL FIRST FLOOR PLAN (AREA C) - MECHANICAL
 SCALE: 1/8" = 1'-0"
 1
 M1-3.1C



BID SET

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Prospect, KY 40059
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Eubank, KY

ROOF MECHANICAL

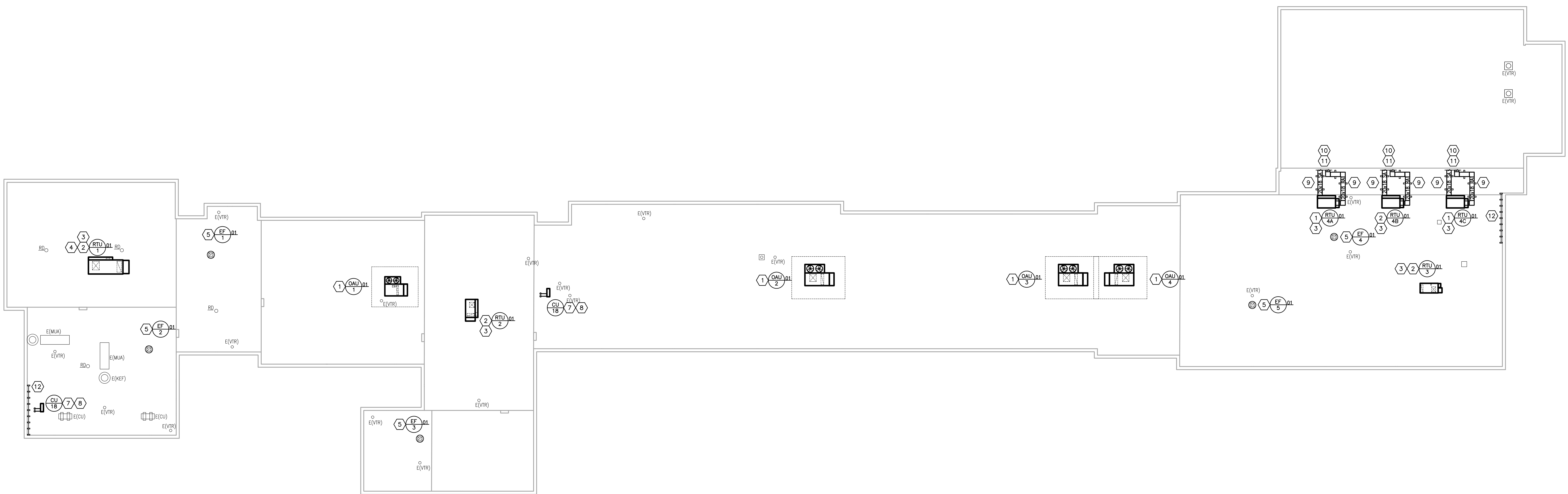
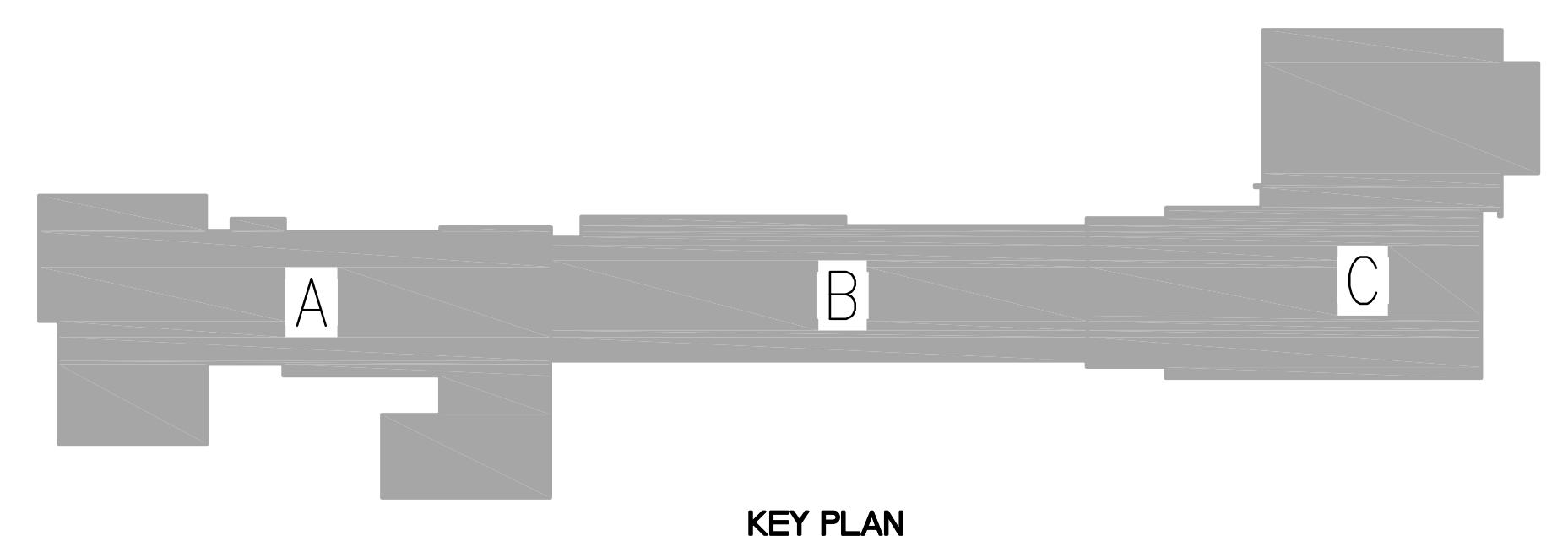
REVISIONS

DATE: 03.11.2022
DRAWN: BM, LA, HC, NT
CHECKED: CG

SET NO.

M1-3.2

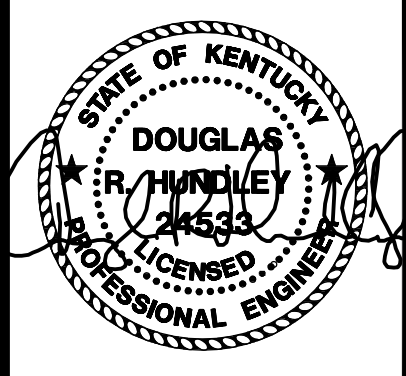
- MECHANICAL NOTES - ROOF:
- NEW ROOF TOP UNIT INSTALLED ON NEW CURB. CUT/PATCH/FLASH ROOF AS REQUIRED. REFER TO DETAILS ON SHEET M-6.2 FOR ADDITIONAL INFORMATION. UNIT CONDENSATE SHALL BE SPILLED TO NEAREST ROOF DRAIN.
 - NEW ROOF TOP UNIT INSTALLED ON EXISTING CURB. PROVIDE NEW CURB ADAPTER WITH CURB CAP, AND PLENUM CURB. REFER TO DETAILS ON SHEET M-6.2 FOR ADDITIONAL INFORMATION. UNIT CONDENSATE SHALL BE SPILLED TO NEAREST ROOF DRAIN.
 - REFER TO GEOTHERMAL ROOFTOP UNIT PIPING SCHEMATIC ON SHEET M-6.2 FOR PIPING REQUIREMENTS. UNIT CONDENSATE SHALL BE SPILLED TO NEAREST ROOF DRAIN.
 - ROUTE GEOTHERMAL PIPING UP THROUGH EXISTING CURB AND THROUGH THE SIDE OF THE NEW PIPE CHASE.
 - NEW FAN/HOOD INSTALLED ON AN EXISTING CURB. PROVIDE CURB ADAPTER AS REQUIRED. TRANSITION DUCTWORK TO FAN/HOOD OPENING AS REQUIRED.
 - NEW FAN/HOOD INSTALLED ON AN NEW CURB. TRANSITION DUCTWORK TO FAN/HOOD OPENING AS REQUIRED. CUT/PATCH/FLASH ROOF AS REQUIRED.
 - ROUTE THE REFRIGERANT PIPING DOWN THROUGH A NEW ROOF CURB/PIPING PORTAL. PROVIDE A ROOF PRODUCTS MODEL RPPC-90 OR APPROVED EQUAL ROOF CURB WITH PIPE CHASE. REFER TO THE PIPE PORTAL DETAIL ON SHEET M-6.2 FOR ADDITIONAL INFORMATION. ROOF CURB SHALL BE 3'-0" AWAY FROM CONDENSING UNIT. REFRIGERANT PIPING SHALL BE SUPPORTED BY COOPER B-LINE C-SERIES ROOFTOP SUPPORTS.
 - NEW CONDENSING UNIT MOUNTED ON A NEW ROOF CURB. REFER TO DETAIL ON DRAWING M-6.0. CUT/PATCH/FLASH ROOF AS REQUIRED.
 - PROVIDE DUCT SUPPORTS 5'-0" ON CENTER. DUCT SUPPORTS SHALL BE DURA BLOCK DBL-DS SERIES. CONTRACTOR TO VERIFY MAXIMUM HEIGHT REQUIRED. INSULATE DUCTWORK PER SPECIFICATION SECTION 202200.
 - CUT/PATCH WALL AS REQUIRED FOR NEW DUCTWORK PENETRATION.
 - SEAL AROUND DUCTWORK PENETRATION AT EXTERIOR WALL WEATHER TIGHT.
 - NEW NON-PENETRATING OSHA COMPLIANT EDGE PROTECTION ROOF RAILING SYSTEM. BASIS OF DESIGN: BLUEWATER "SAFETYRAIL 2000" SYSTEM. MAINTAIN EQUIPMENT CLEARANCES.
 - APPROXIMATE EXISTING VTR LOCATION. ROUTE NEW PLUMBING VENT ACROSS ROOF AND TERMINATE NO LESS THAN 15' FROM ANY FRESH AIR INTAKE. PROVIDE AND INSTALL NO HUB COUPLING TO JOIN NEW VENT PIPE AND EXISTING VTR. PROVIDE AND INSTALL NEW PIPE SUPPORTS EVERY 3'-0" FOR NEW VENT PIPING. SUPPORTS SHALL BE COPPER, B-LINE, MODEL C-SERIES OR EQUAL.



ROOF PLAN - MECHANICAL

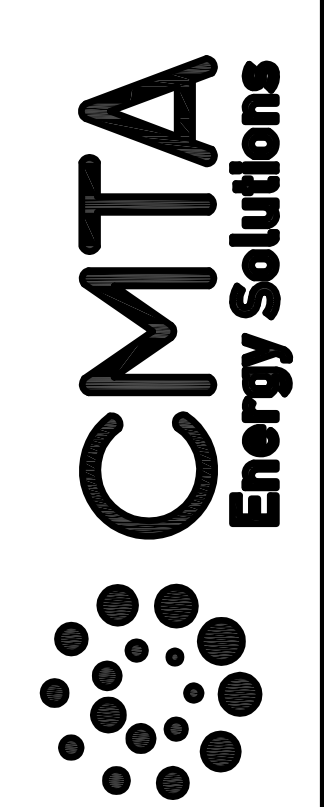
SCALE: 1/16" = 1'-0"

1
M1-3.2



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9519 Civic Way, Suite 100
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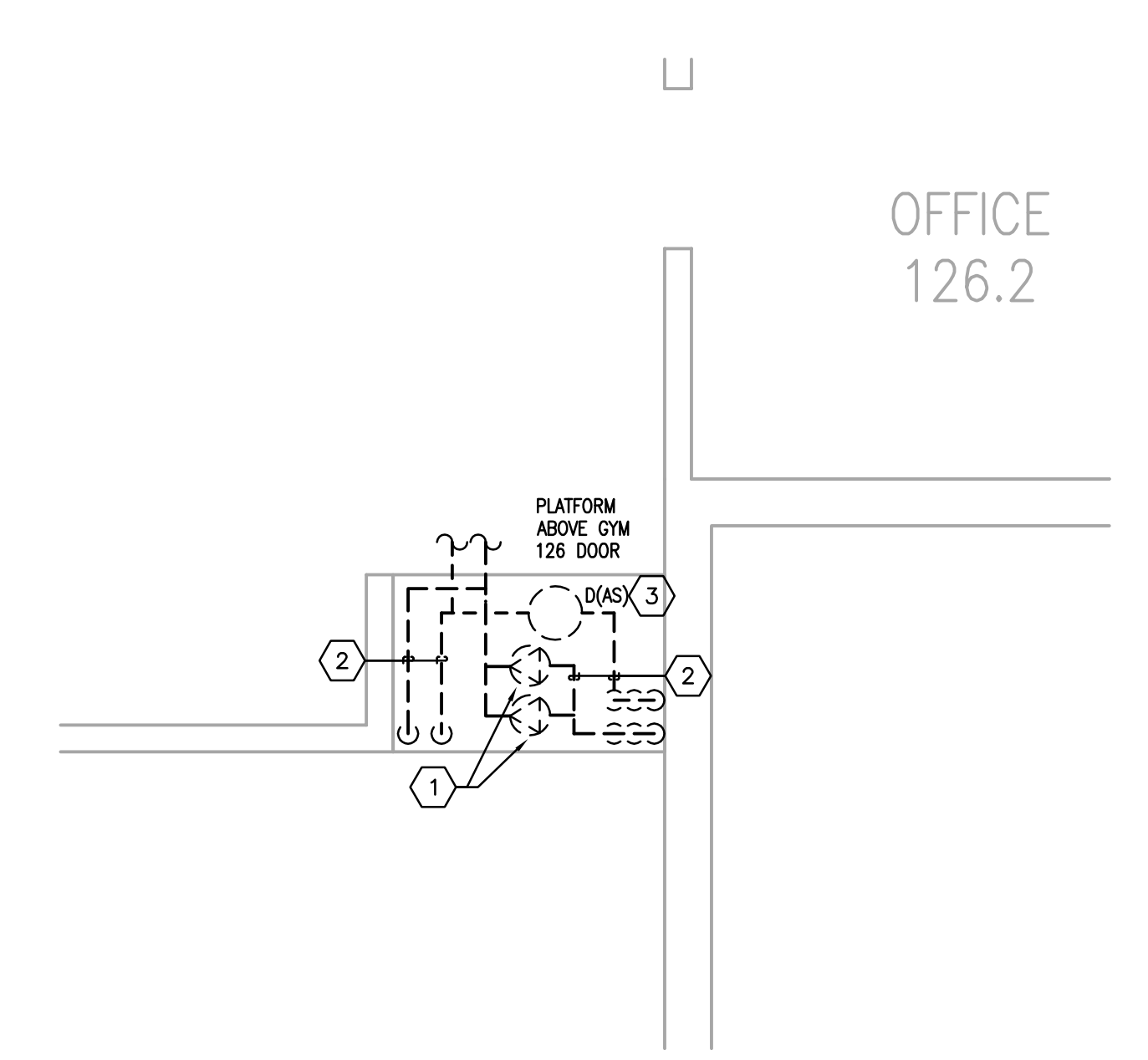
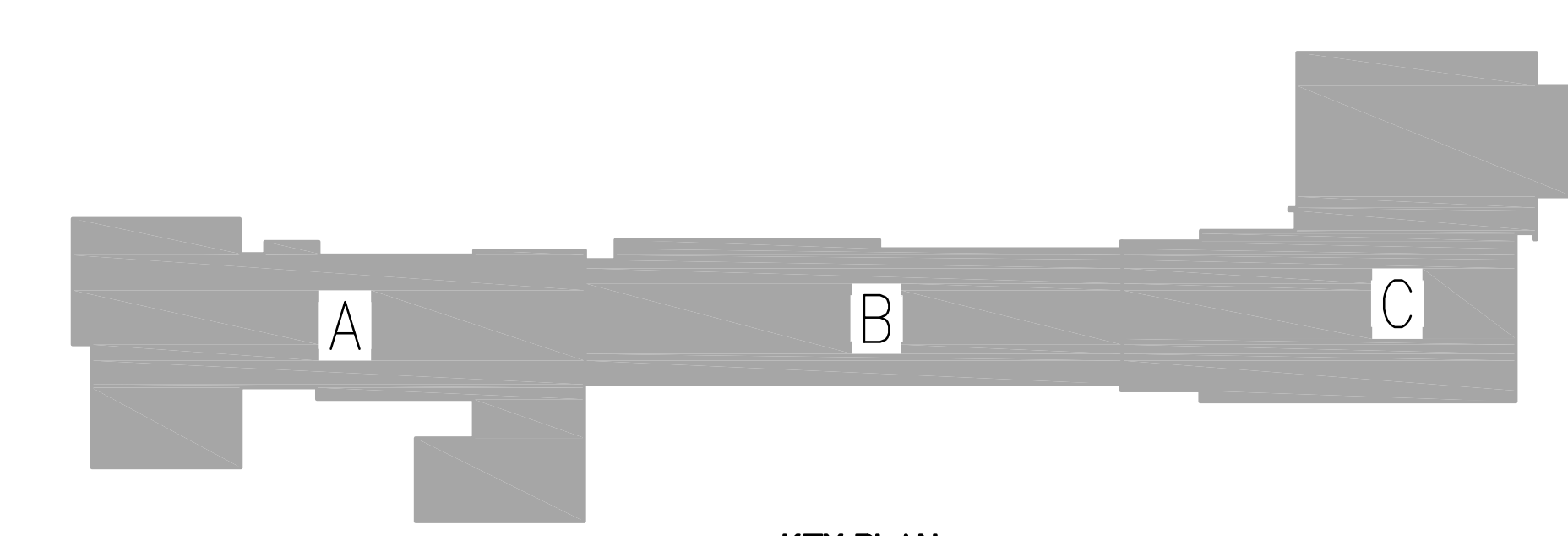
Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
EUBANK ELEMENTARY SCHOOL
Eubank, KY
ENLARGED MECHANICAL PLANS

NO.	DATE	DESCRIPTION

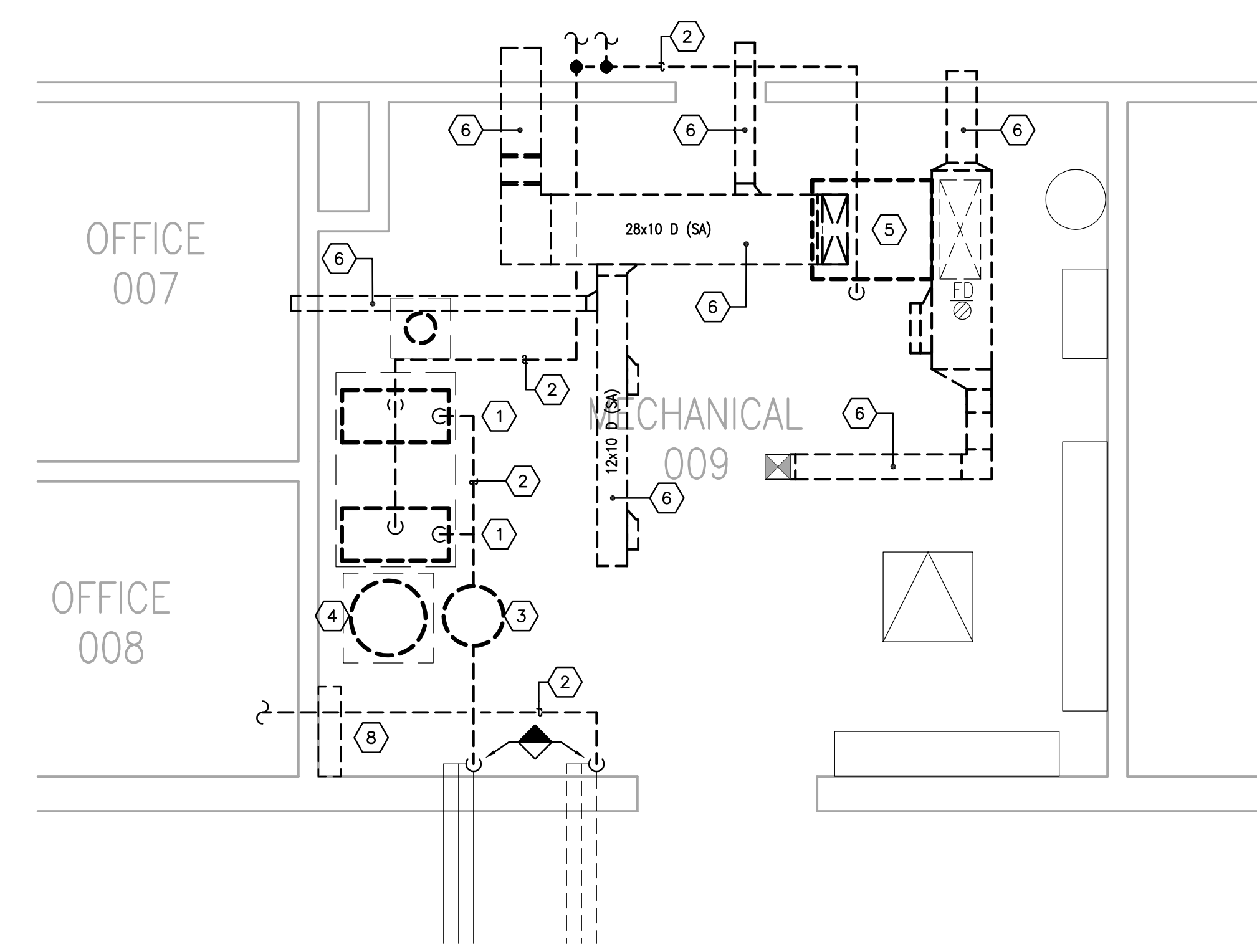
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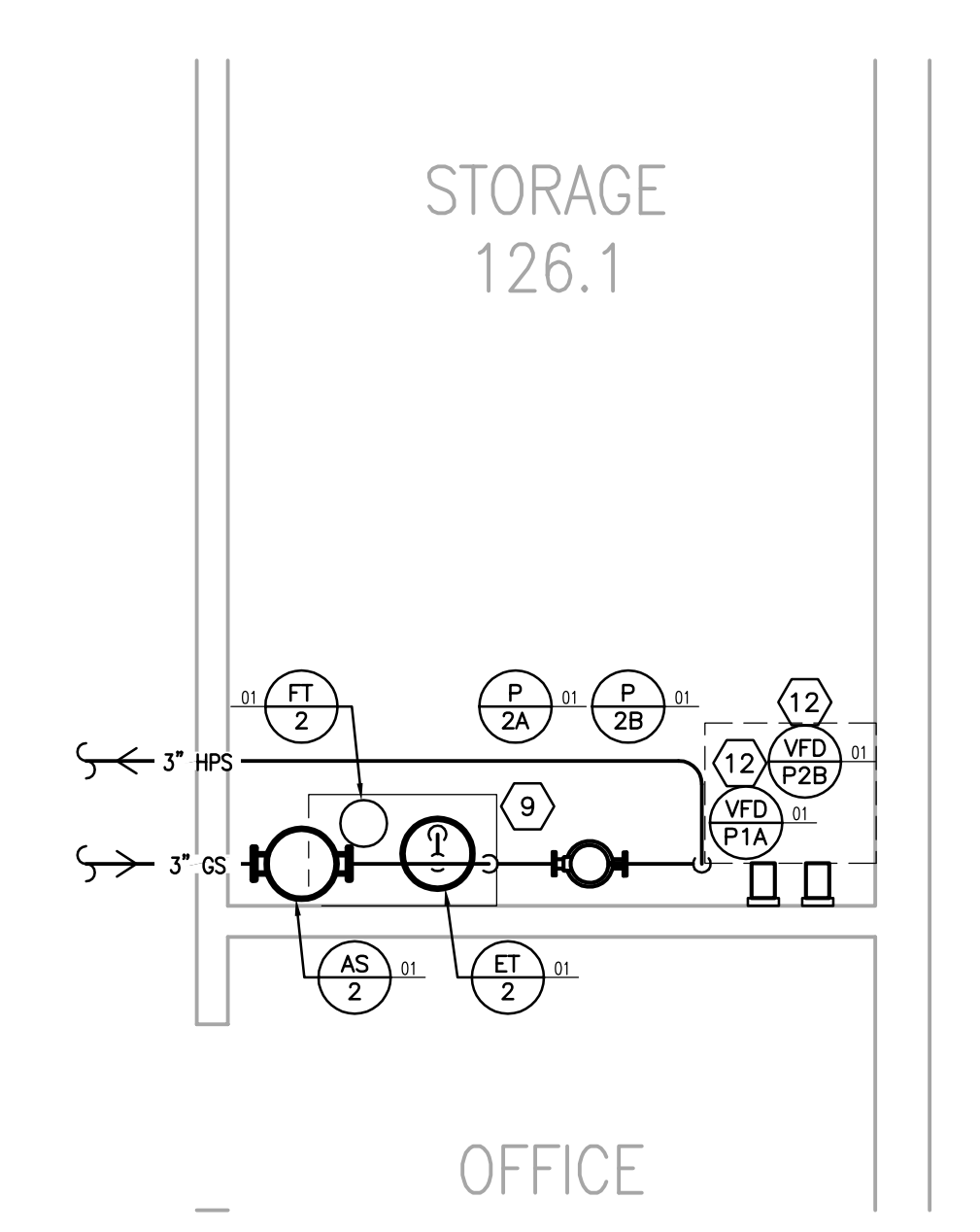


ENLARGED GYM 126 PLATFORM - MECHANICAL DEMOLITION
SCALE: 1/4" = 1'-0" 2
M1-4.0

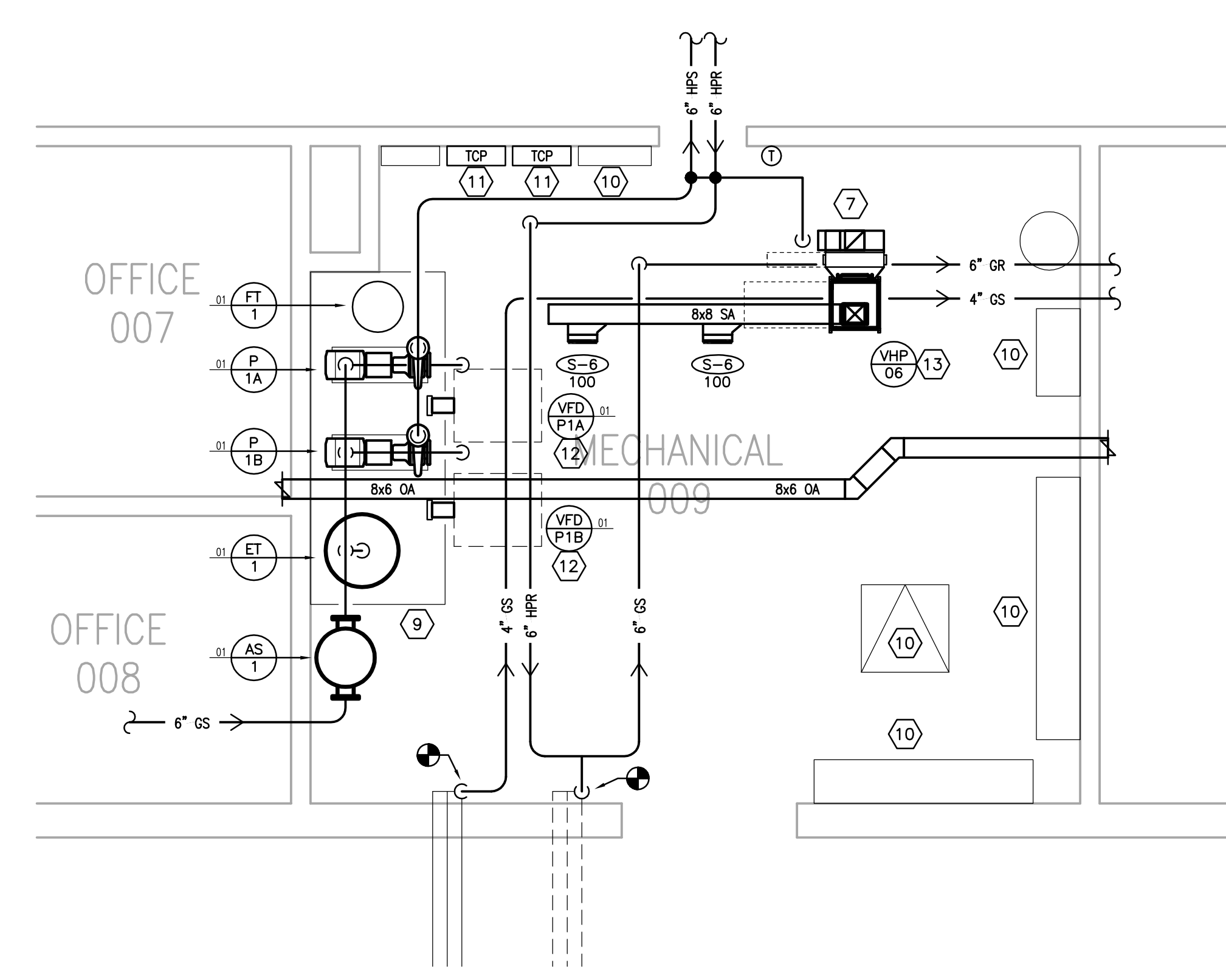


ENLARGED MECHANICAL ROOM 009 - MECHANICAL DEMOLITION
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M1-4.0

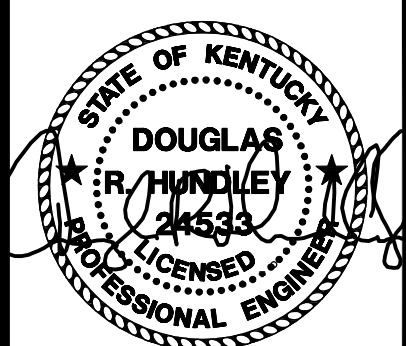
- ENLARGED MECHANICAL ROOMS - GENERAL NOTES:
- PATCH ALL WALL/ROOF/FLOOR PENETRATIONS WHERE EXISTING MEP EQUIPMENT/PIPING/DUCTWORK/ETC IS REMOVED.
 - REMOVE ALL CONCRETE PADS/SUPPORTS ASSOCIATED WITH MEP EQUIPMENT REMOVAL COMPLETELY; REMOVE ALL ABANDONED PADS/SUPPORTS COMPLETELY; PATCH AND SMOOTH FLOOR AS REQUIRED.
- ENLARGED MECHANICAL ROOMS:
- EXISTING PUMPS TO BE COMPLETELY REMOVED INCLUDING ALL EXISTING MECHANICAL, ELECTRICAL AND CONTROLS CONNECTIONS. CONCRETE PAD SHALL BE REMOVED; PATCH AND SMOOTH FLOOR AS REQUIRED.
 - EXISTING PIPING AND ALL ASSOCIATED VALVES, HANGERS, AND SUPPORTS TO BE COMPLETELY REMOVED. PATCH WALLS/SLAB/CEILING AT PIPING OPENINGS (TYPICAL).
 - EXISTING AIR SEPARATOR TO BE COMPLETELY REMOVED INCLUDING ALL ACCESSORIES/SUPPORTS.
 - EXISTING EXPANSION TANK TO BE COMPLETELY REMOVED INCLUDING ALL ACCESSORIES. CONCRETE PAD SHALL BE REMOVED.
 - EXISTING HEAT PUMP TO BE REMOVED COMPLETELY, INCLUDING ALL ASSOCIATED DUCTWORK, PIPING, CONDENSATE DRAIN AND PUMP (IF APPLICABLE), ELECTRICAL AND CONTROLS CONNECTIONS. PATCH WALL/FLOOR AS REQUIRED FOR COMPLETE EQUIPMENT REMOVAL.
 - EXISTING SUPPLY/RETURN/EXHAUST/OUTDOOR AIR DUCTWORK, GRILLES, AND RISER INDICATED TO BE REMOVED COMPLETELY. REMOVE ALL ASSOCIATED HANGERS/SUPPORTS/ACCESSORIES. PATCH WALLS/SLAB/CEILING AT DUCT OPENINGS (TYPICAL).
 - ROUTE 8"X8" RETURN AIR DUCT UP AND TERMINATE WITH 1/2" MESH SCREEN.
 - EXISTING FILL STATION TO BE REMOVED COMPLETELY. REWORK DOMESTIC WATER CONNECTIONS AS REQUIRED FOR NEW FILL STATION LOCATIONS. PROVIDE ALL NECESSARY VALVES AND ACCESSORIES AS REQUIRED. REFER TO NEW WORK PLANS FOR ADDITIONAL INFORMATION.
 - PROVIDE 4" THICK CONCRETE PAD UNDER MECHANICAL EQUIPMENT. PAD SHALL BE 6" LARGER THAN THE MECHANICAL EQUIPMENT FOOTPRINT IN ALL DIRECTIONS UNLESS SHOWN LARGER ON THE FLOOR PLAN.
 - ELECTRICAL PANEL OR EQUIPMENT. DO NOT ROUTE DUCTWORK OR PIPING ABOVE THE PANELS.
 - NEW CONTROL PANEL FOR DDC SYSTEM. COORDINATE DATA AND POWER CONNECTION WITH THE ELECTRICAL CONTRACTOR.
 - PROVIDE A UNI-STRUT STAND FOR THE VFD. COORDINATE INSTALLATION WITH THE ELECTRICAL CONTRACTOR. PROVIDE VERTICAL UNI-STRUT ON WALL MOUNTED VFD'S.
 - SPILL CONDENSATE TO FLOOR DRAIN.



ENLARGED STORAGE 126.1 - MECHANICAL
SCALE: 1/4" = 1'-0" 4
M1-4.0

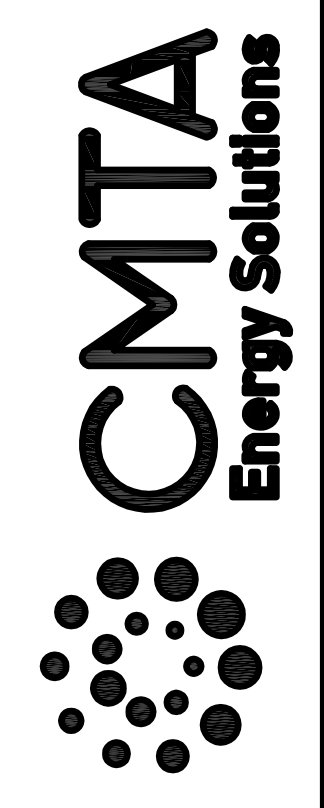


ENLARGED MECHANICAL ROOM 009 - MECHANICAL
SCALE: 1/4" = 1'-0" 3
M1-4.0



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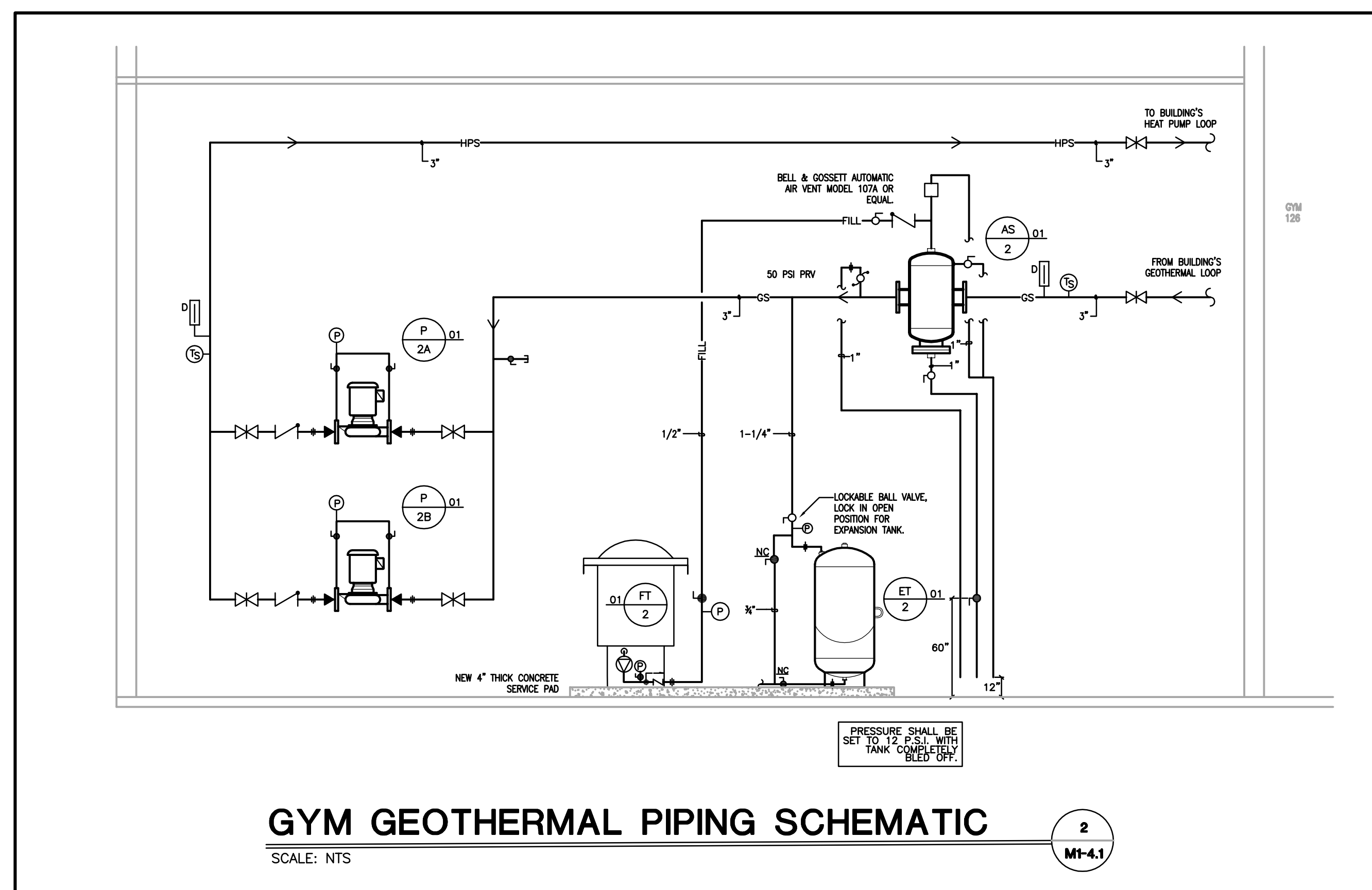
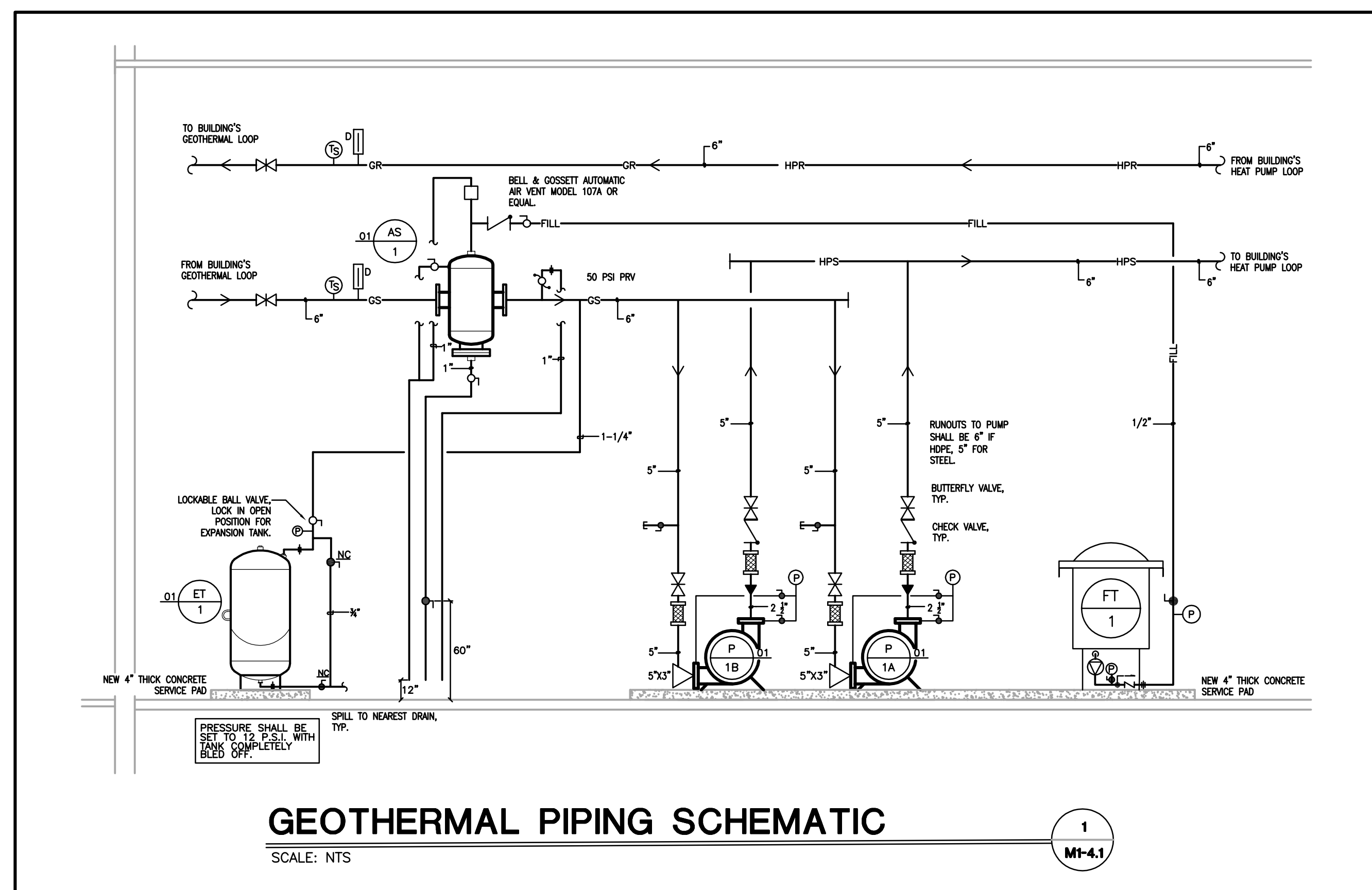
Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
EUBANK ELEMENTARY SCHOOL
Eubank, KY
PIPING SCHEMATICS

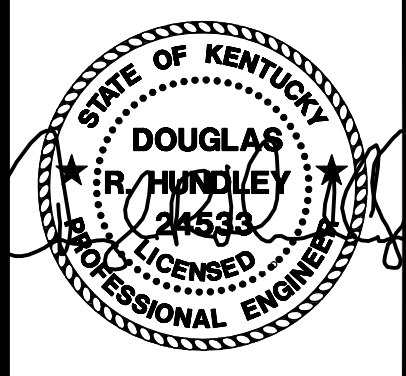
REVISIONS

DATE: 03.11.2022
DRAWN: EM, LA, HC, NT
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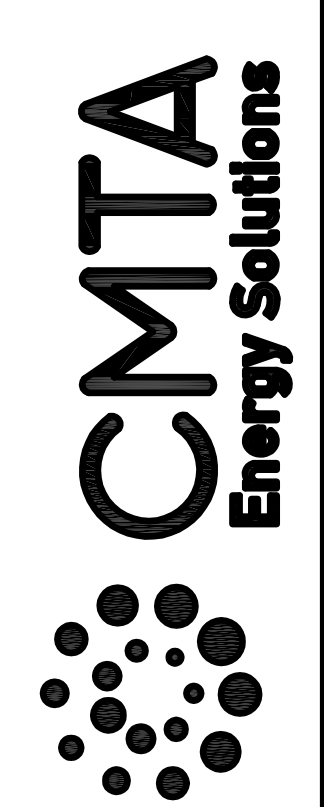
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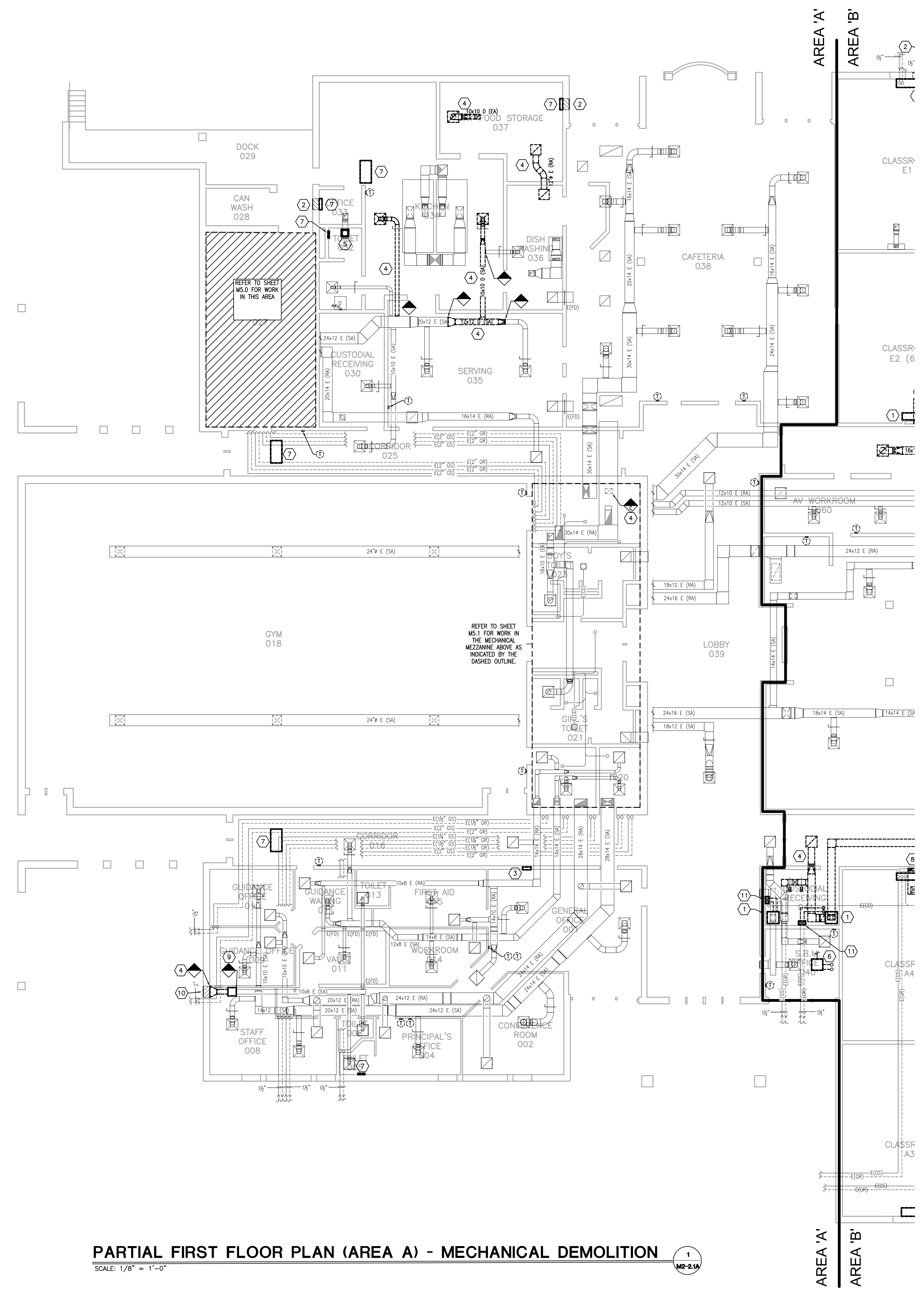
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Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
OAK HILL ELEMENTARY SCHOOL
Somerset, KY
FIRST FLOOR MECHANICAL DEMOLITION - AREA A

REVISIONS
DATE: 03.12.2022
DRAWN: BM, LA, HC, NT
CHECKED: CG

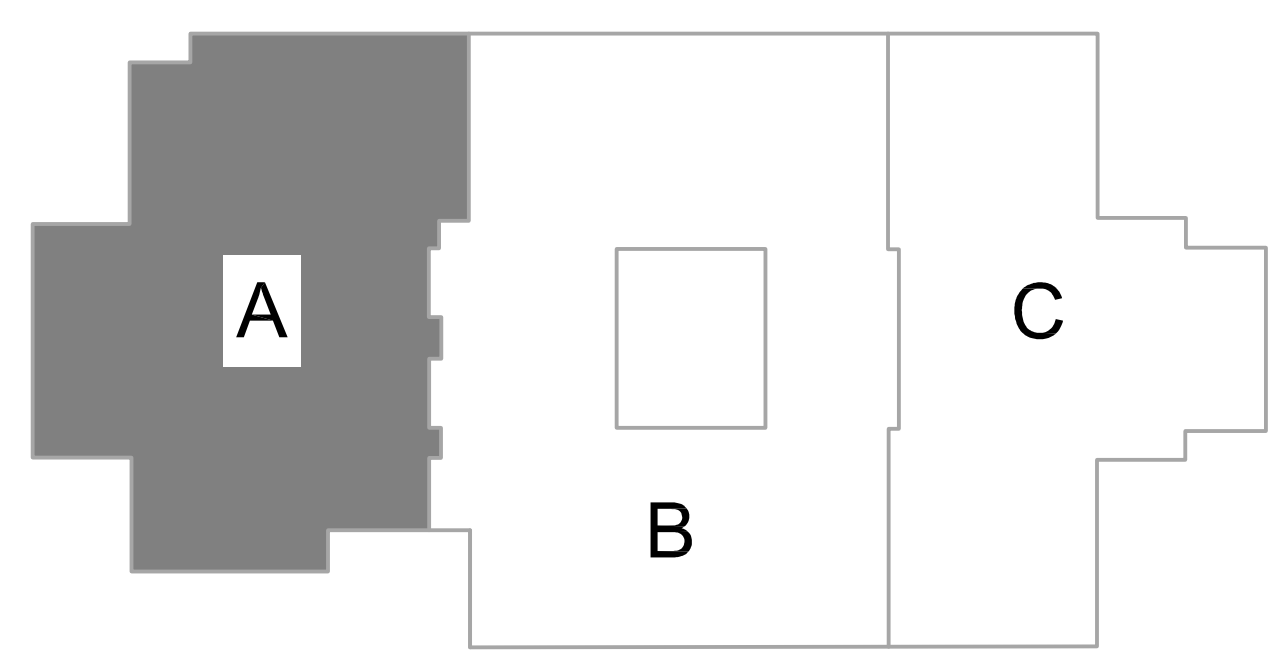
SET NO.
M2-
2.1A

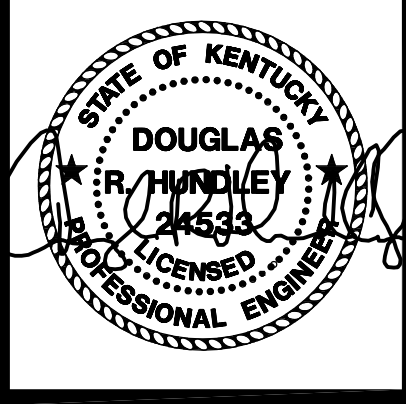


- GENERAL DEMOLITION NOTES:
- EXISTING GEOTHERMAL PIPING ROUTED UNDERSLAB TO EXISTING WELLFIELD IS TO REMAIN. PROVIDE INTERIOR SHUT-OFF VALVES AS REQUIRED. REFER TO NEW WORK PLANS AND DETAILS FOR MORE INFORMATION.
 - CONTRACTOR RESPONSIBLE FOR VERIFYING PIPE FLOW DIRECTION AND PIPE SIZE FOR CONNECTION.
 - WALL AND FLOOR PATCHING/PAINING: PATCH/INFILL ALL WALL/FLOOR PENETRATIONS WHERE EXISTING MECHANICAL EQUIPMENT/PIPING/DUCTWORK IS REMOVED. COORDINATE ALL PATCH/INFILL WORK WITH THE GENERAL CONTRACTOR.
 - EXISTING PIPING DEMOLITION: ALL EXISTING PIPING INDICATED TO BE REMOVED, IS TO BE REMOVED COMPLETELY TO BEYOND FINISHED SURFACES. INACCESSIBLE PIPING BURIED IN EXISTING WALLS REMAINING AND CONCRETE SLABS MAY BE ABANDONED IN PLACE.
 - EXISTING THERMOSTAT/TEMPERATURE SENSOR/CONTROLS DEVICES: PROVIDE A STAINLESS STEEL COVER PLATE AT EXISTING OPENING IF LOCATION IS NOT BEING REUSED. COORDINATE ALL CONTROLS WORK WITH TCC.
 - ALL GRILLES THAT ARE TO REMAIN SHALL BE CLEANED.
 - ASBESTOS ABATEMENT: REFER TO GENERAL CONTRACTOR CONCERNING ALL ASBESTOS ABATEMENT ON THE PROJECT.
 - THE OWNER WILL SALVAGE CERTAIN REMOVED EQUIPMENT. COORDINATE WITH THE GENERAL CONTRACTOR.

- MECHANICAL DEMOLITION NOTES:
- EXISTING HEAT PUMP TO BE REMOVED COMPLETELY, INCLUDING ALL ASSOCIATED DUCTWORK, PIPING, CONDENSATE DRAIN AND PUMP (IF APPLICABLE), ELECTRICAL AND CONTROLS CONNECTIONS. PATCH WALL/FLOOR AS REQUIRED FOR COMPLETE EQUIPMENT REMOVAL. COORDINATE WALL AND FLOOR PATCHING WITH GENERAL CONTRACTOR.
 - EXISTING LOUVER TO REMAIN. BLANK OFF THE INSIDE OF THE EXISTING LOUVER WITH SHEET METAL AND INSULATE WITH 2" RIGID INSULATION. COORDINATE LOUVER INFILL AND FINAL FINISHES WITH GENERAL CONTRACTOR.
 - EXISTING TEMPERATURE CONTROL PANEL TO BE REMOVED COMPLETELY. COORDINATE WITH TCC.
 - EXISTING SUPPLY/RETURN/EXHAUST/OUTDOOR AIR DUCTWORK, GRILLES, AND RISER INDICATED TO BE REMOVED COMPLETELY. REMOVE ALL ASSOCIATED HANGERS/SUPPORTS/ACCESSORIES. PATCH WALLS/SLAB/CEILING AT DUCT OPENINGS (TYPICAL).
 - REMOVE EXISTING CEILING MOUNTED EXHAUST FAN INCLUDING ALL ELECTRICAL AND CONTROLS CONNECTIONS (DISCONNECTS/SWITCHES/ETC). EXISTING EXHAUST RISER TO REMAIN. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION.
 - EXISTING SPLIT SYSTEM AND ASSOCIATED OUTDOOR CONDENSING UNIT TO BE REMOVED COMPLETELY, INCLUDING ALL PIPING, CONDENSATE DRAIN AND PUMP (IF APPLICABLE), ELECTRICAL AND CONTROLS CONNECTIONS. REMOVE ALL ASSOCIATED HANGERS/SUPPORTS/ACCESSORIES. PATCH WALLS/SLAB/CEILING AT DUCT OPENINGS (TYPICAL).
 - REMOVE EXISTING ELECTRIC HEATER INCLUDING ALL ELECTRICAL AND CONTROLS CONNECTIONS.
 - REMOVE EXISTING OUTSIDE AIR DUCTWORK, AND CAP/BLANK OFF DUCT AT CEILING/WALL. PATCH WALL AS REQUIRED FOR COMPLETE EQUIPMENT REMOVAL. COORDINATE WALL PATCHING WITH GENERAL CONTRACTOR.
 - REMOVE EXISTING EXHAUST FAN INCLUDING ALL ELECTRICAL AND CONTROLS CONNECTIONS (DISCONNECTS/SWITCHES/ETC).
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 - EXISTING GEOTHERMAL WATER PUMPS TO BE COMPLETELY REMOVED INCLUDING ALL EXISTING MECHANICAL, ELECTRICAL, CONTROLS CONNECTIONS AND WALL SUPPORTS. EXISTING GEOTHERMAL PIPING ENTRANCE TO REMAIN AND BE REUSED. REFER TO NEW WORK FOR ADDITIONAL INFORMATION.

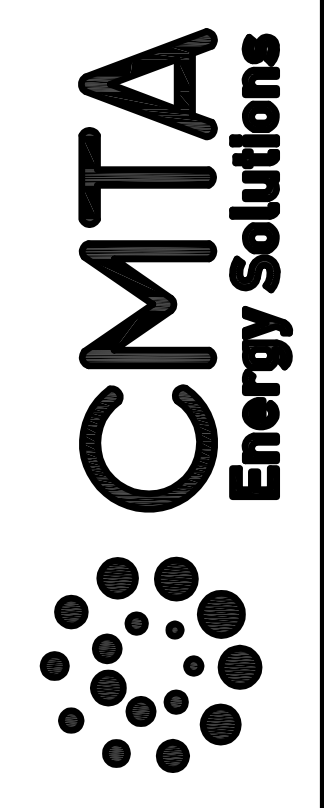
PARTIAL FIRST FLOOR PLAN (AREA A) - MECHANICAL DEMOLITION
SCALE: 1/8" = 1'-0"





BID SET

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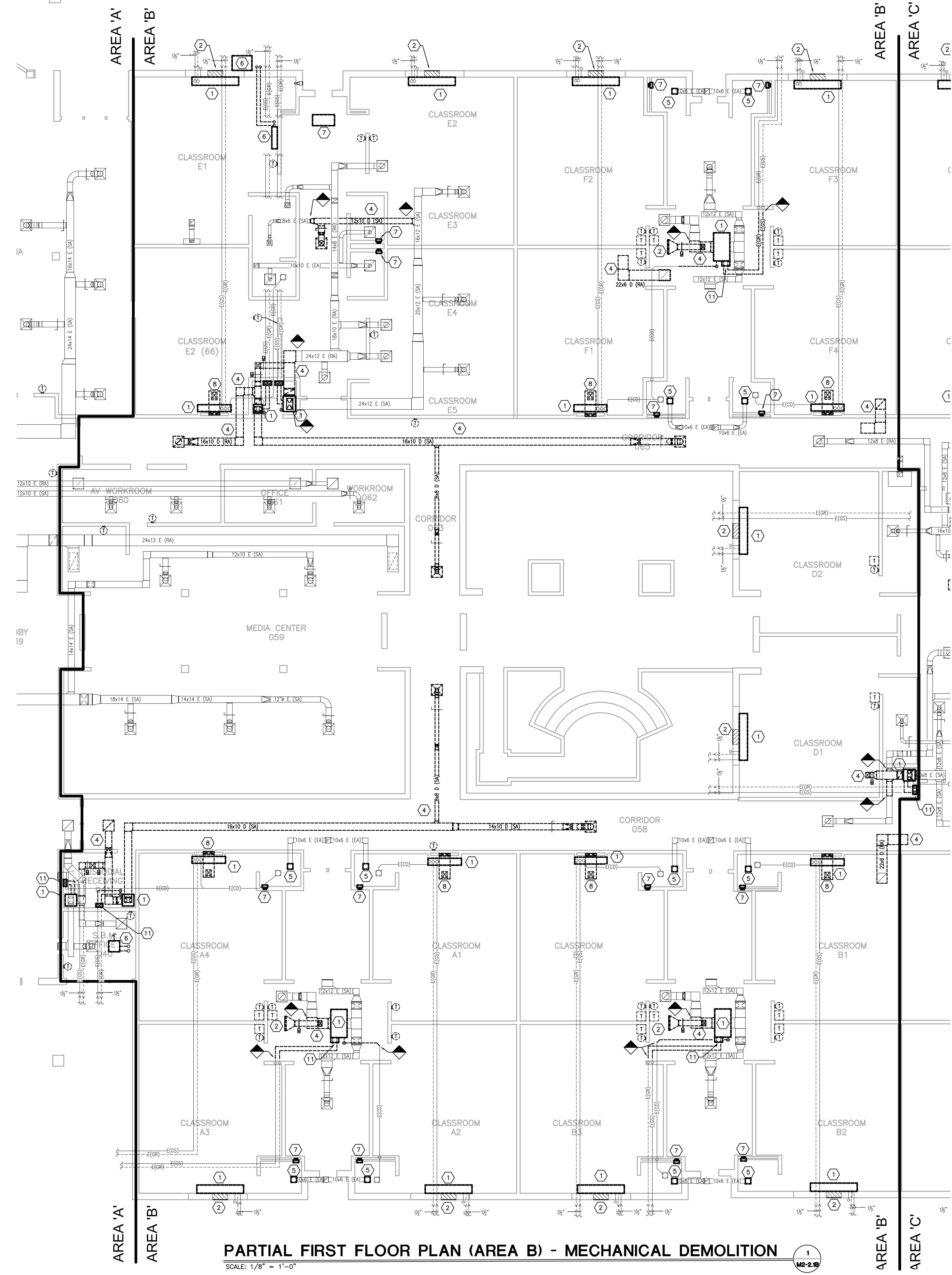
Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
OAK HILL ELEMENTARY SCHOOL
Somerset, KY
FIRST FLOOR MECHANICAL DEMOLITION - AREA B

REVISIONS

DATE: 03.11.2022
DRAWN: EM, LA, HC, NT
CHECKED: CG

SET NO.

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2.1B

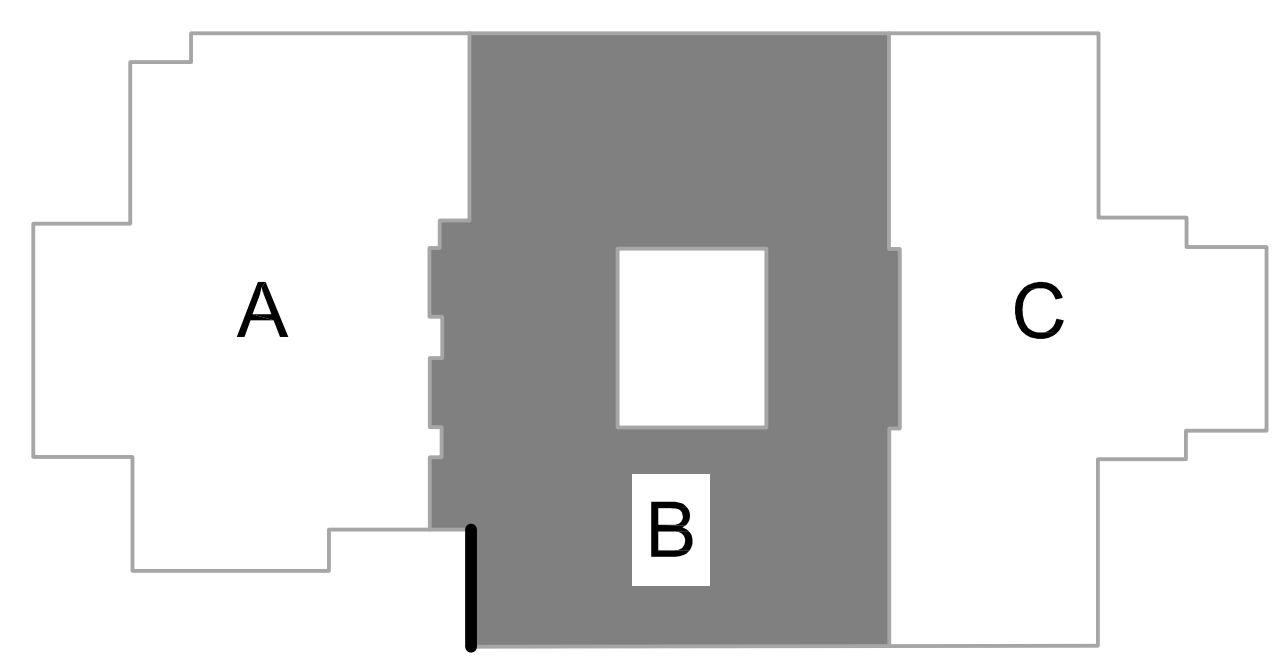


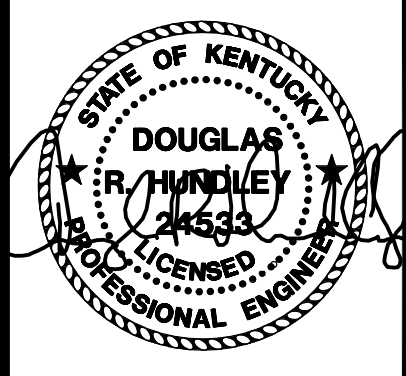
- GENERAL DEMOLITION NOTES:
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 - CONTRACTOR RESPONSIBLE FOR VERIFYING PIPE FLOW DIRECTION AND PIPE SIZE FOR CONNECTION.
 - WALL AND FLOOR PATCHING/PAINING: PATCH/FILL ALL WALL/FLOOR PENETRATIONS WHERE EXISTING MECHANICAL EQUIPMENT/PIPING/DUCTWORK IS REMOVED. COORDINATE ALL PATCH/FILL WORK WITH THE GENERAL CONTRACTOR.
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 - ALL GRILLES THAT ARE TO REMAIN SHALL BE CLEANED.
 - ASBESTOS ABATEMENT: REFER TO GENERAL CONTRACTOR CONCERNING ALL ASBESTOS ABATEMENT ON THE PROJECT.
 - THE OWNER WILL SALVAGE CERTAIN REMOVED EQUIPMENT. COORDINATE WITH THE GENERAL CONTRACTOR.

- MECHANICAL DEMOLITION NOTES:
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 - REMOVE EXISTING CEILING MOUNTED EXHAUST FAN INCLUDING ALL ELECTRICAL AND CONTROLS CONNECTIONS (DISCONNECTS/SWITCHES/ETC). EXISTING EXHAUST RISER TO REMAIN. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION.
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PARTIAL FIRST FLOOR PLAN (AREA B) - MECHANICAL DEMOLITION

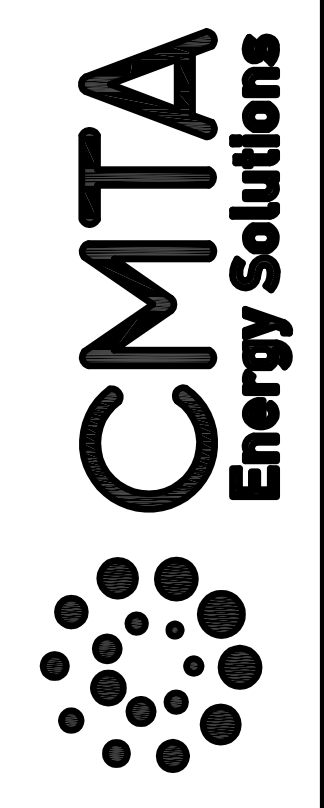
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Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
OAK HILL ELEMENTARY SCHOOL
Somerset, KY
FIRST FLOOR MECHANICAL DEMOLITION - AREA C

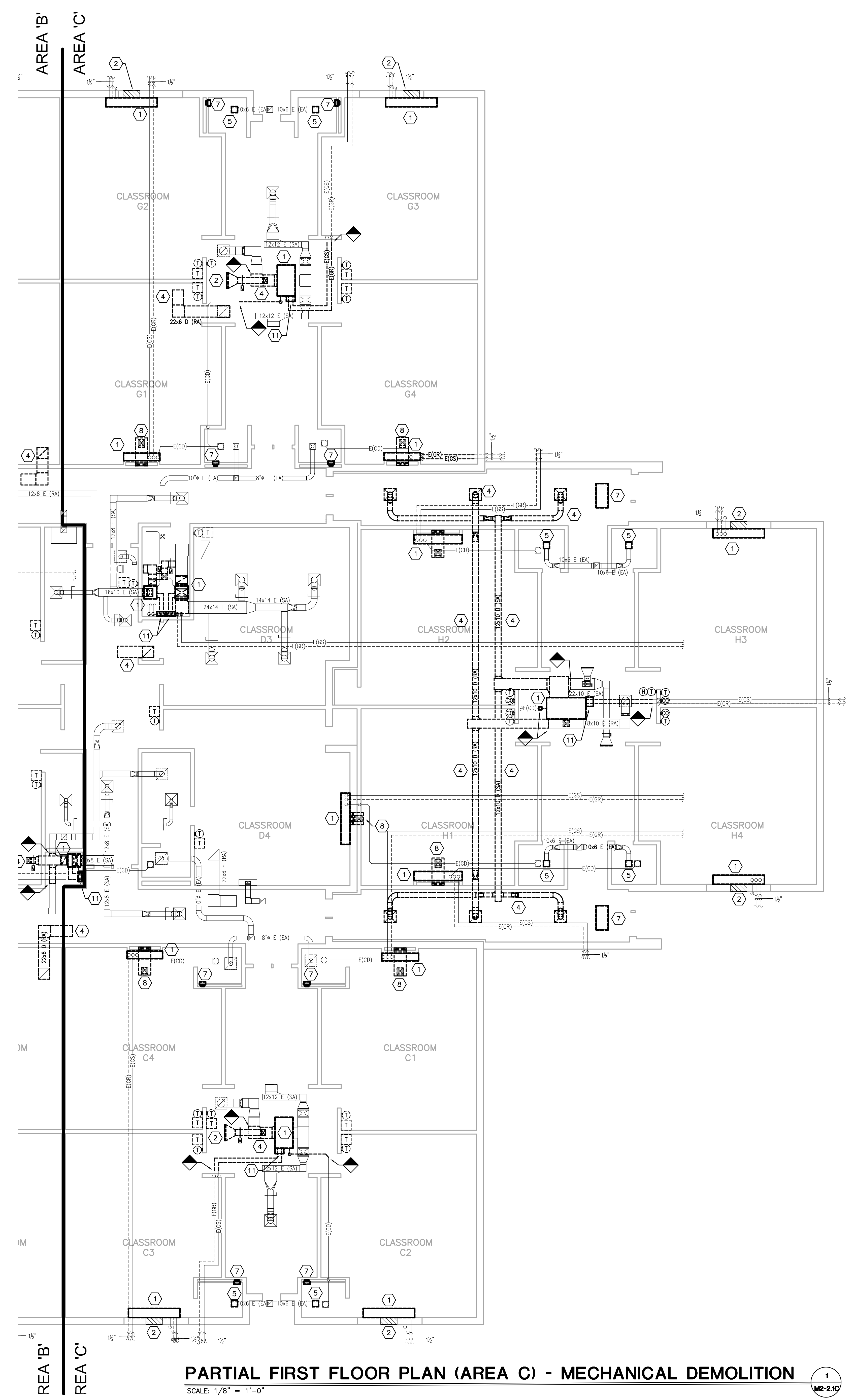
REVISIONS
DATE: 03.11.2022
DRAWN: BM, LA, HC, NT
CHECKED: CG

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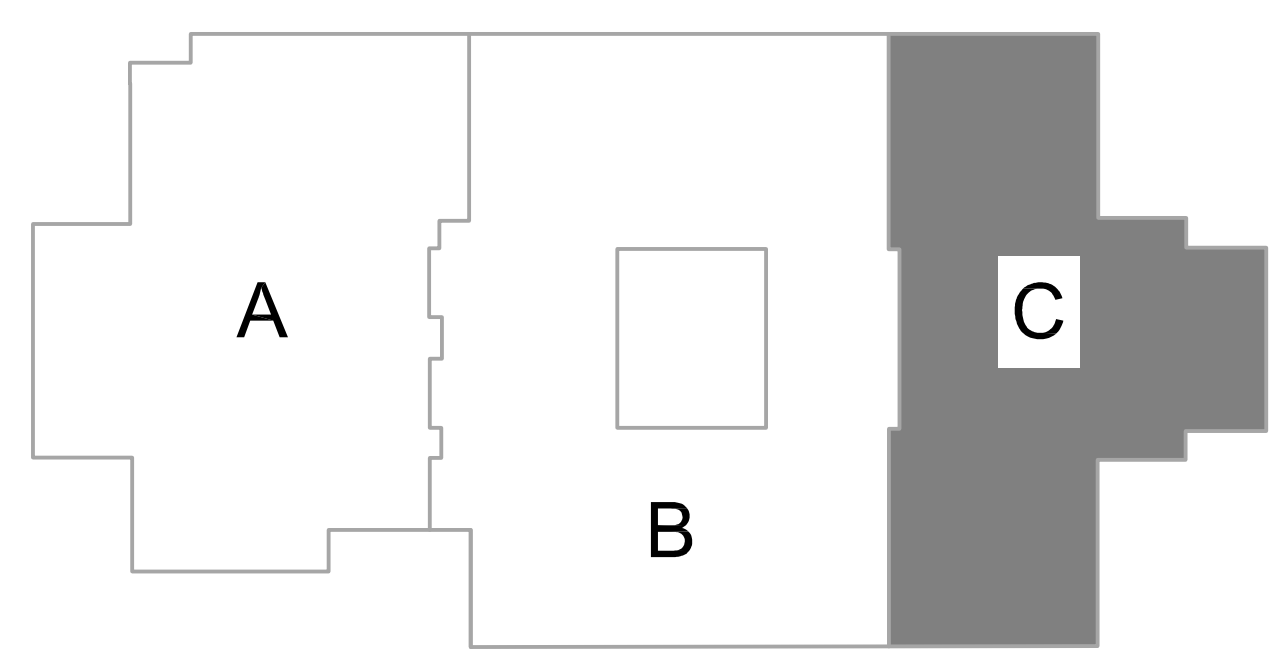
M2-
2.1C

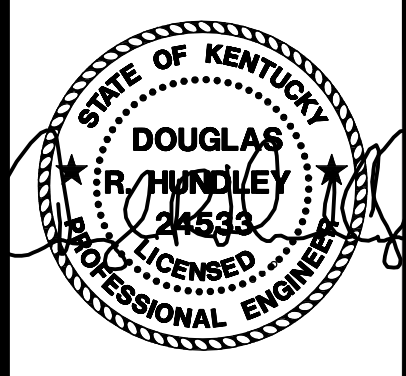
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 - ALL GRILLES THAT ARE TO REMAIN SHALL BE CLEANED.
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- MECHANICAL DEMOLITION NOTES:
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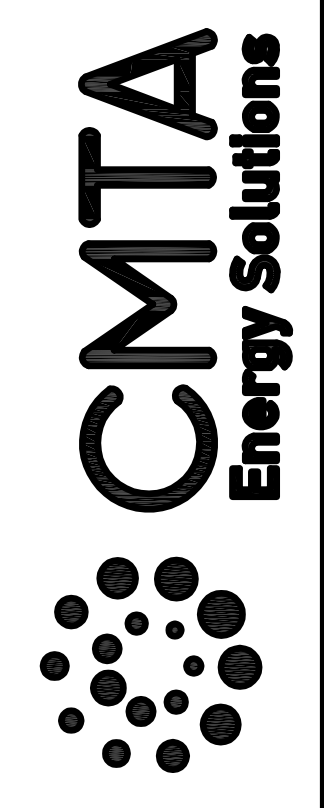
PARTIAL FIRST FLOOR PLAN (AREA C) - MECHANICAL DEMOLITION
SCALE: 1/8" = 1'-0"





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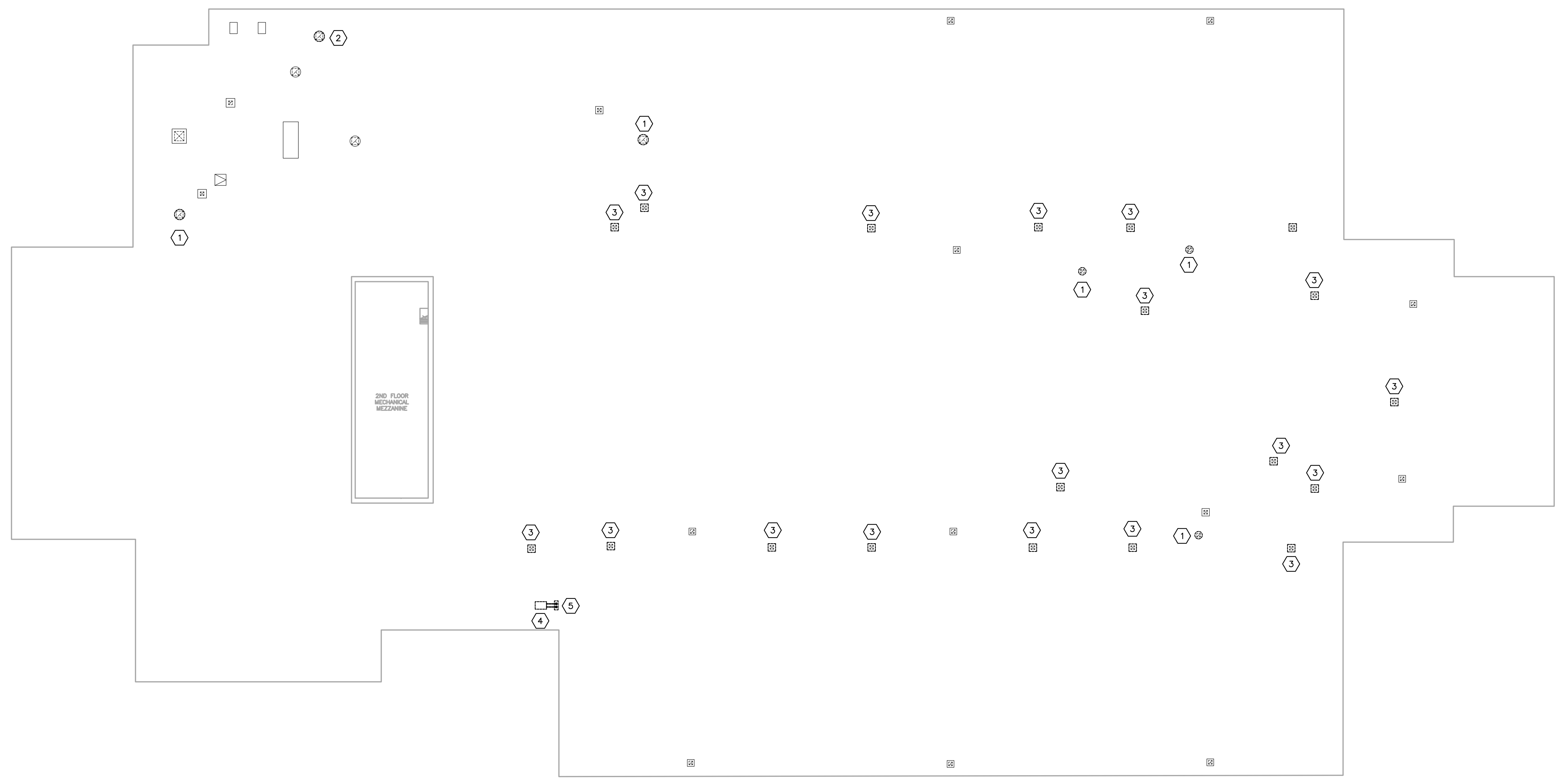
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Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
OAK HILL ELEMENTARY SCHOOL
Somerset, KY

ROOF MECHANICAL DEMOLITION

- MECHANICAL DEMOLITION NOTES - ROOF
- EXISTING EXHAUST FAN TO BE REMOVED COMPLETELY, INCLUDING ALL MECHANICAL, ELECTRICAL, AND CONTROLS CONNECTIONS (DISCONNECTS/SWITCHES/ETC). EXISTING ROOF CURB AND DUCTWORK RISER TO REMAIN.
 - EXISTING EXHAUST FAN TO BE REMOVED COMPLETELY, INCLUDING ALL DUCTWORK, MECHANICAL, ELECTRICAL AND CONTROLS CONNECTIONS (DISCONNECTS/SWITCHES/ETC). THE ROOF CURB IS TO BE CAPPED, REFER TO DETAIL ON SHEET M-6.2.
 - EXISTING RELIEF/EXHAUST/INTAKE AIR VENT TO BE REMOVED COMPLETELY. THE ROOF CURB IS TO BE CAPPED, REFER TO DETAIL ON SHEET M-6.2.
 - EXISTING CONDENSING UNIT TO BE REMOVED COMPLETELY, INCLUDING ALL PIPING, ELECTRICAL AND CONTROLS CONNECTIONS. EXISTING EQUIPMENT CURB/RAILS TO BE REMOVED COMPLETELY. PATCH ROOF AS REQUIRED.
 - REMOVE/CAP EXISTING PIPING PORTAL AND EQUIPMENT RAILS IF NOT BEING REUSED. PATCH ROOF AS REQUIRED.



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

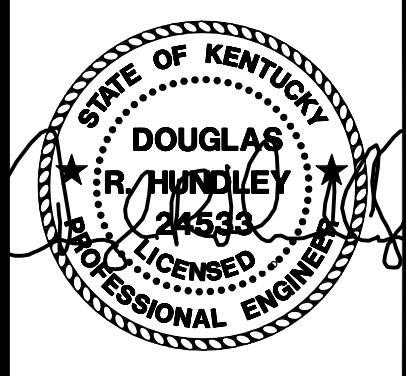
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M2-2.2

REVISIONS

DATE: 03.11.2022
DRAWN: EM, LA, HC, NT
CHECKED: CG

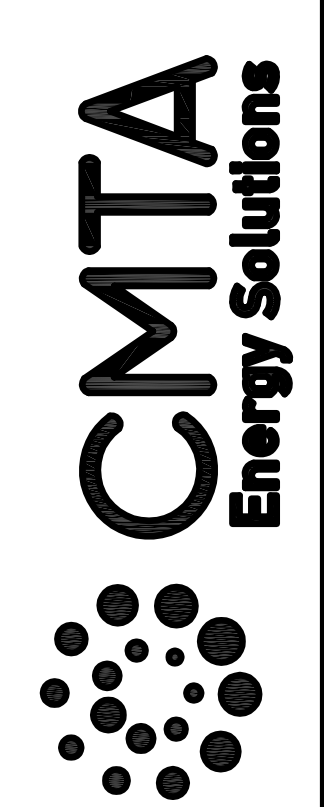
SET NO.

M2-
2.2



BID SET

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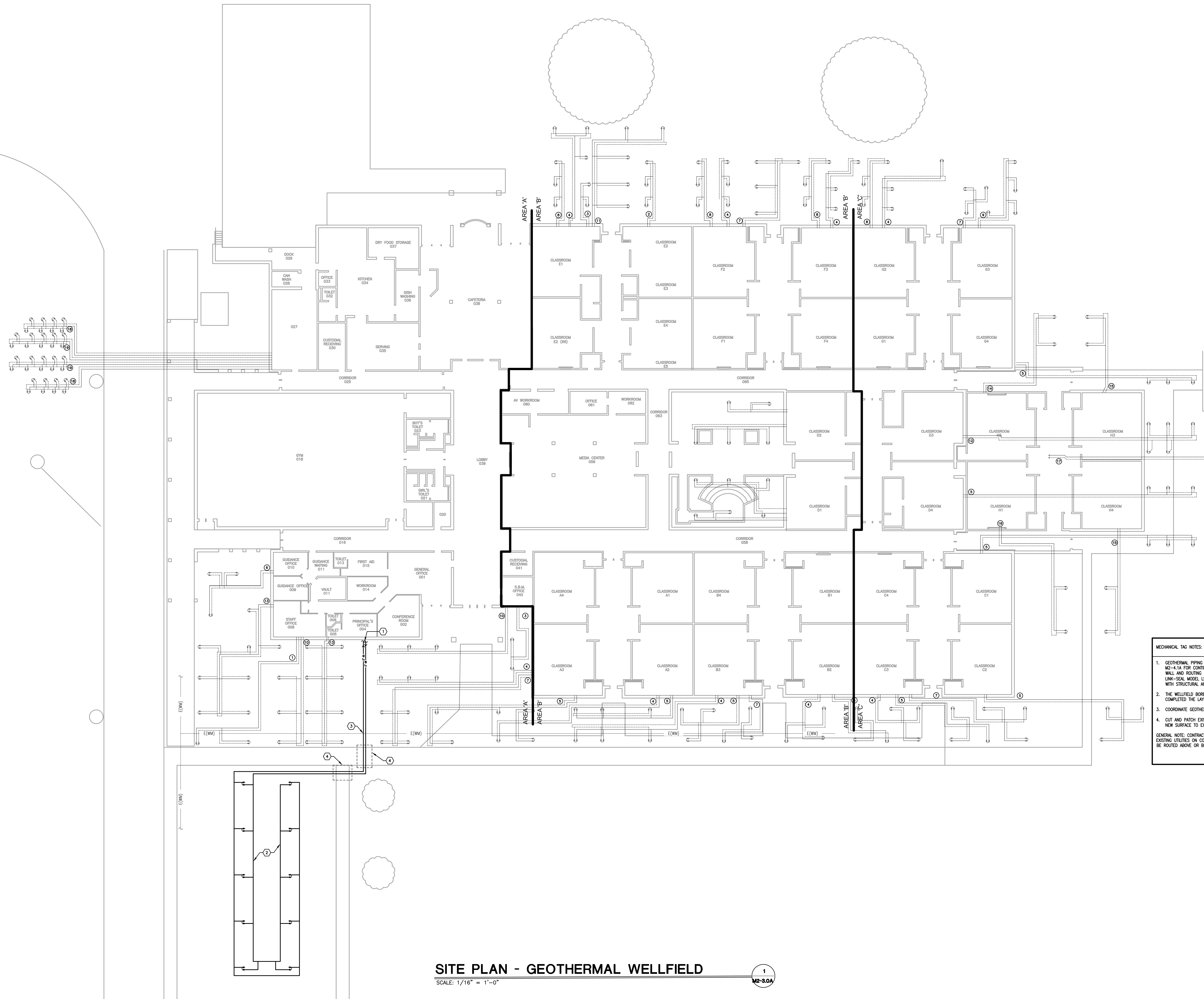
Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
OAK HILL ELEMENTARY SCHOOL
Somerset, KY
SITE PLAN GEOTHERMAL WELLFIELDS

NO.	DATE	BY	REVISIONS

DATE: 03.11.2022
DRAWN: EM, LA, HC, NT
CHECKED: CG

SET NO.
M2-3.0A

WELL LOOP SCHEDULE			
WELLFIELD DESIGNATION	WELL DEPTH	PIPE SIZE	GPM PER WELL
①	140'	1.25"	2.25
②	160'	1.50"	2.63
③	140'	1.50"	3.75
④	181'	1.50"	3.00
⑤	180'	1.50"	3.00
⑥	180'	1.50"	3.00
⑦	210'	1.50"	3.50
⑧	205'	1.50"	3.33
⑨	175'	1.50"	3.00
⑩	200'	1.50"	3.50
⑪	180'	1.50"	3.00
⑫	180'	1.50"	3.00
⑬	180'	2.00"	3.06
⑭	300'	1.50"	4.50
⑮	300'	1.50"	4.50
⑯	300'	1.50"	4.50
⑰	300'	1.50"	6.00
⑱	185'	2.00"	2.45
⑲	186'	2.00"	3.75



MECHANICAL TAG NOTES:

1. GEOTHERMAL PIPING ENTRANCE TO BUILDING, PIPES SHALL BE 12" ON CENTER. REFER TO SHEET M2-4.1A FOR CONTINUATION. GEOTHERMAL CONTRACTOR RESPONSIBLE TO CORE DRILL FOUNDATION WALL AND ROUTING PIPE 3'-0" INTO THE BUILDING. GEOTHERMAL CONTRACTOR SHALL PROVIDE LINK-SEA MODEL LS AT EACH INDIVIDUAL GS/GR FOUNDATION WALL PENETRATION. COORDINATE WITH STRUCTURAL AND REFER TO SPECIFICATION FOR ALL REQUIREMENTS.
2. THE WELLFIELD BORES SHALL BE LOCATED BY A LICENSE SURVEYOR AND ONCE ALL WORK IS COMPLETED THE LAYOUT SHALL BE SURVEYED AND AS-BUILT DRAWINGS PROVIDED TO THE OWNER.
3. COORDINATE GEOTHERMAL MAINS WITH THE EXISTING WATER MAIN LINE.
4. CUT AND PATCH EXISTING SIDEWALK AS REQUIRED TO ROUTE NEW GS/GR PIPES AS SHOWN. MATCH NEW SURFACE TO EXISTING ADJACENT SURFACE.

GENERAL NOTE: CONTRACTOR RESPONSIBLE FOR LOCATING AND CONFIRMING BURY DEPTHS FOR ALL EXISTING UTILITIES ON CONSTRUCTION SITE. CONTRACTOR THEN TO DETERMINE IF GEOTHERMAL MAINS CAN BE ROUTED ABOVE OR BELOW EXISTING UTILITIES.

WELLFIELD INFORMATION

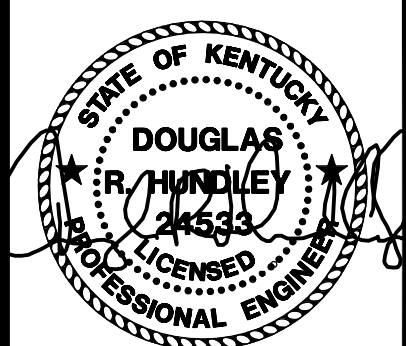
NUMBER OF WELLS - 10
 INDEPENDENT CIRCUITS - 1
 NUMBER OF WELLS PER CIRCUIT - 10
 DEPTH OF WELL - 200'
 WELL PIPE SIZE - 1 1/4"
 WELL SPACING - 20 FT. X 20 FT.

GEOTHERMAL MAIN TO BUILDING:
 64" MINIMUM BURY DEPTH. REFER TO DETAILS ON SHEET M2-3.0B FOR ADDITIONAL INFORMATION.

BEFORE YOU DIG

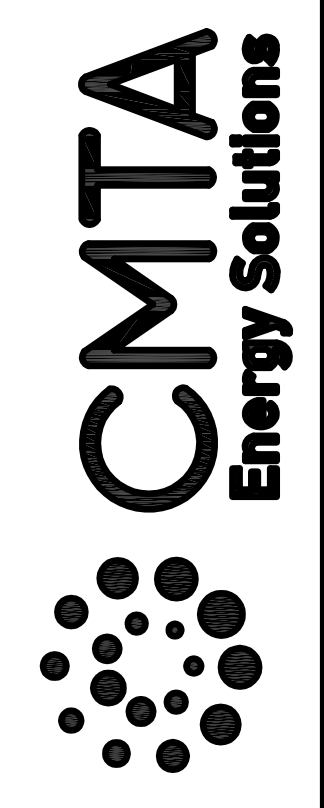
THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL CONTACT "BU" (BEFORE YOU DIG) AT 1-800-725-6007 TO OBTAIN UNDERGROUND UTILITY LOCATIONS PRIOR TO ANY CONSTRUCTION. ANY CONTRACTOR OR SUBCONTRACTOR PERFORMING ANY TYPE OF EXCAVATION ON THIS PROJECT SHALL CALL "BU" TO OBTAIN AN AUTHORIZATION NUMBER.

SITE PLAN - GEOTHERMAL WELLFIELD
 SCALE: 1/16" = 1'-0"
 1
 M2-3.0A



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OAK HILL ELEMENTARY SCHOOL
Somerset, KY

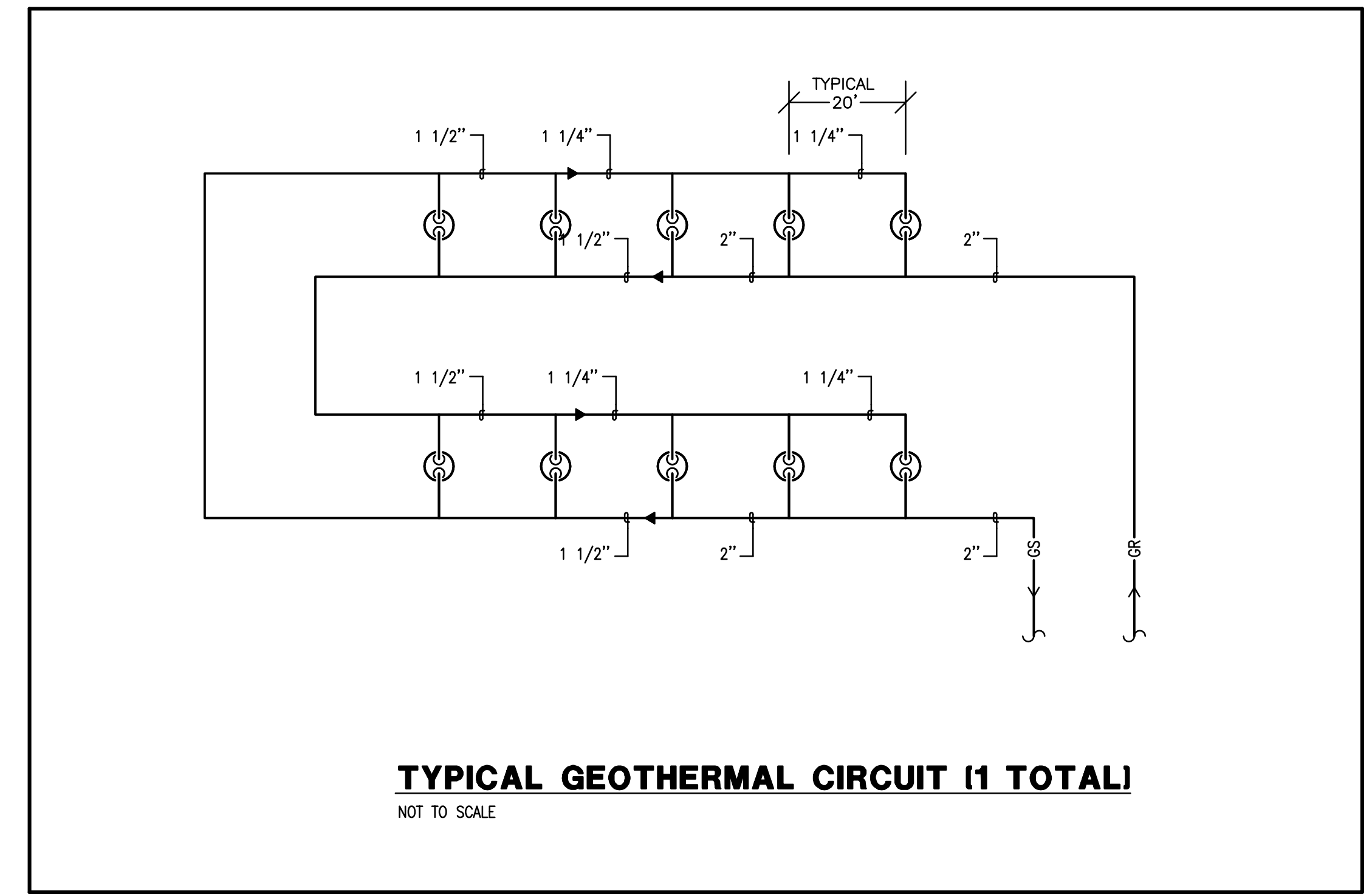
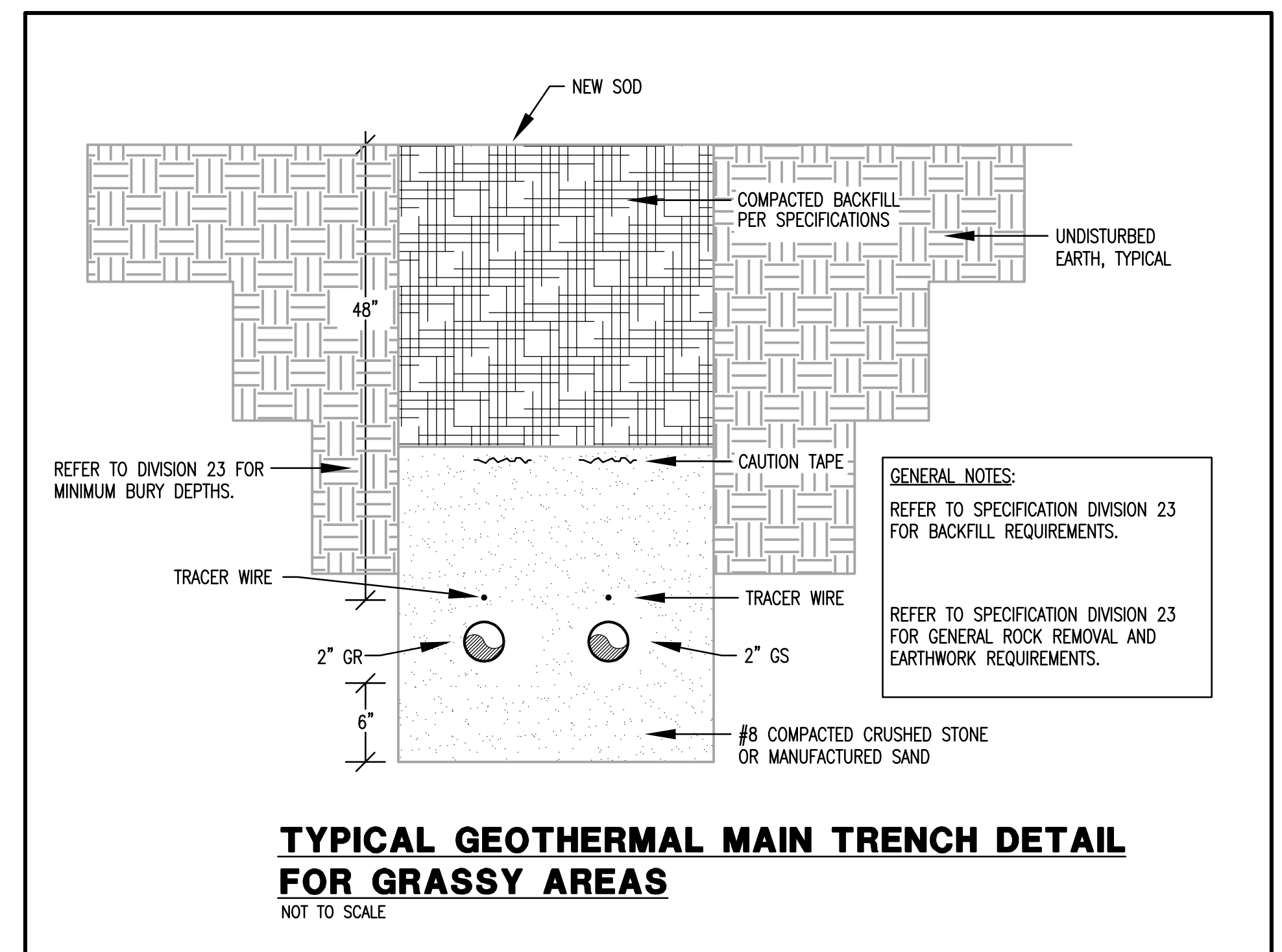
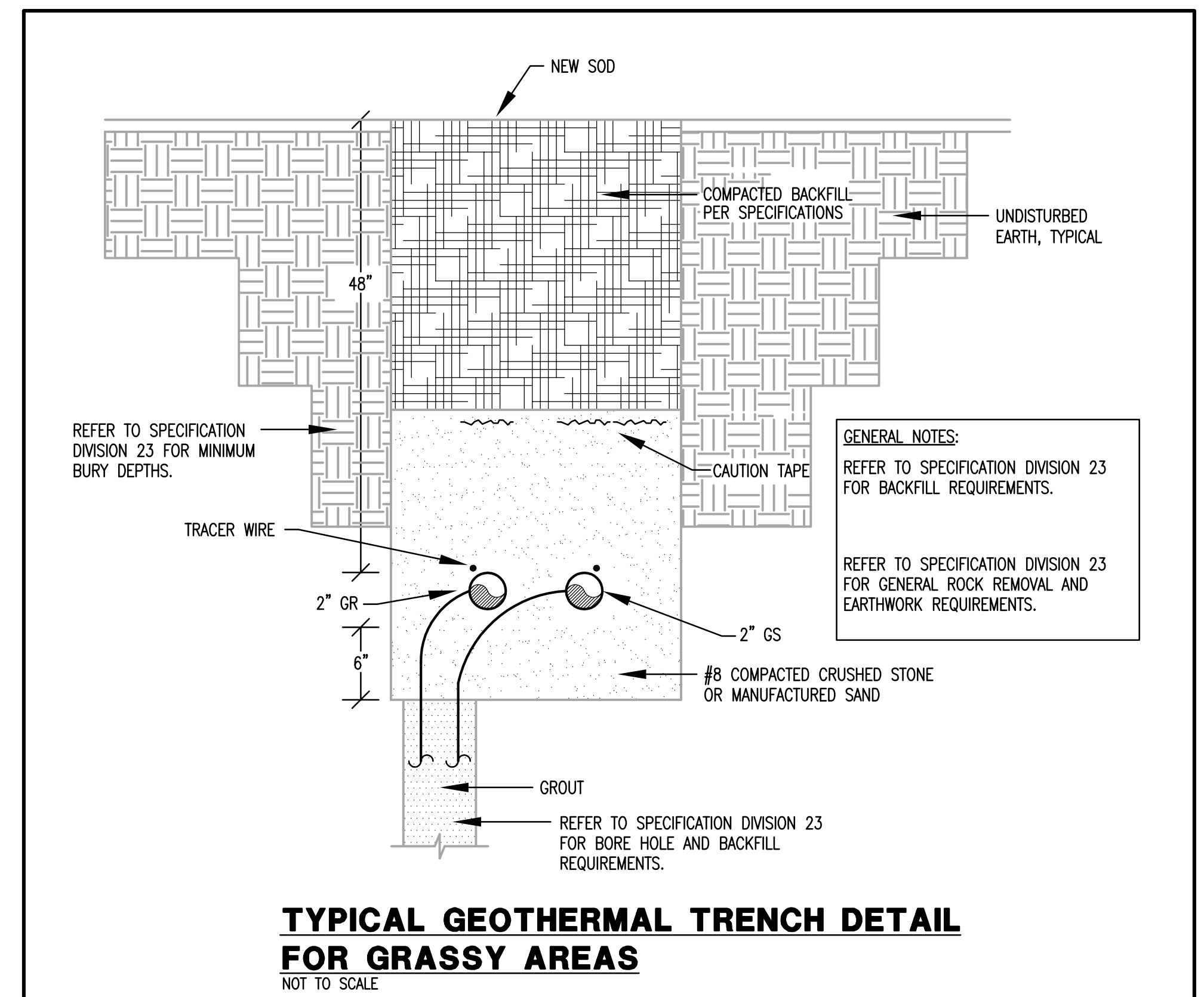
SITE PLAN GEOTHERMAL WELLFIELDS DETAILS

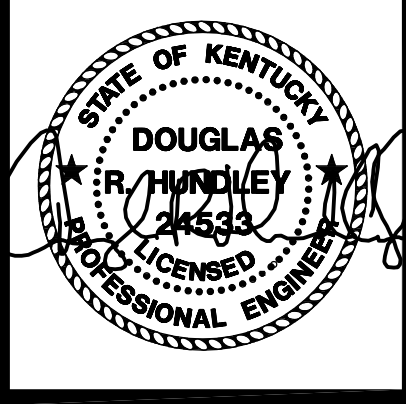
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DATE: 03.11.2022
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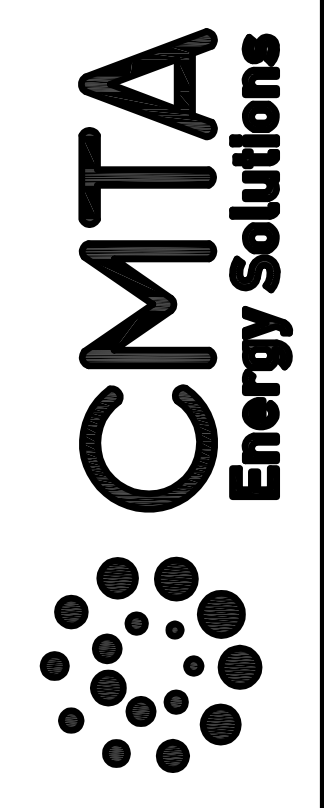
M2-
3.0B





BID SET

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Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
OAK HILL ELEMENTARY SCHOOL
Somerset, KY
FIRST FLOOR AIR DISTRIBUTION - AREA A

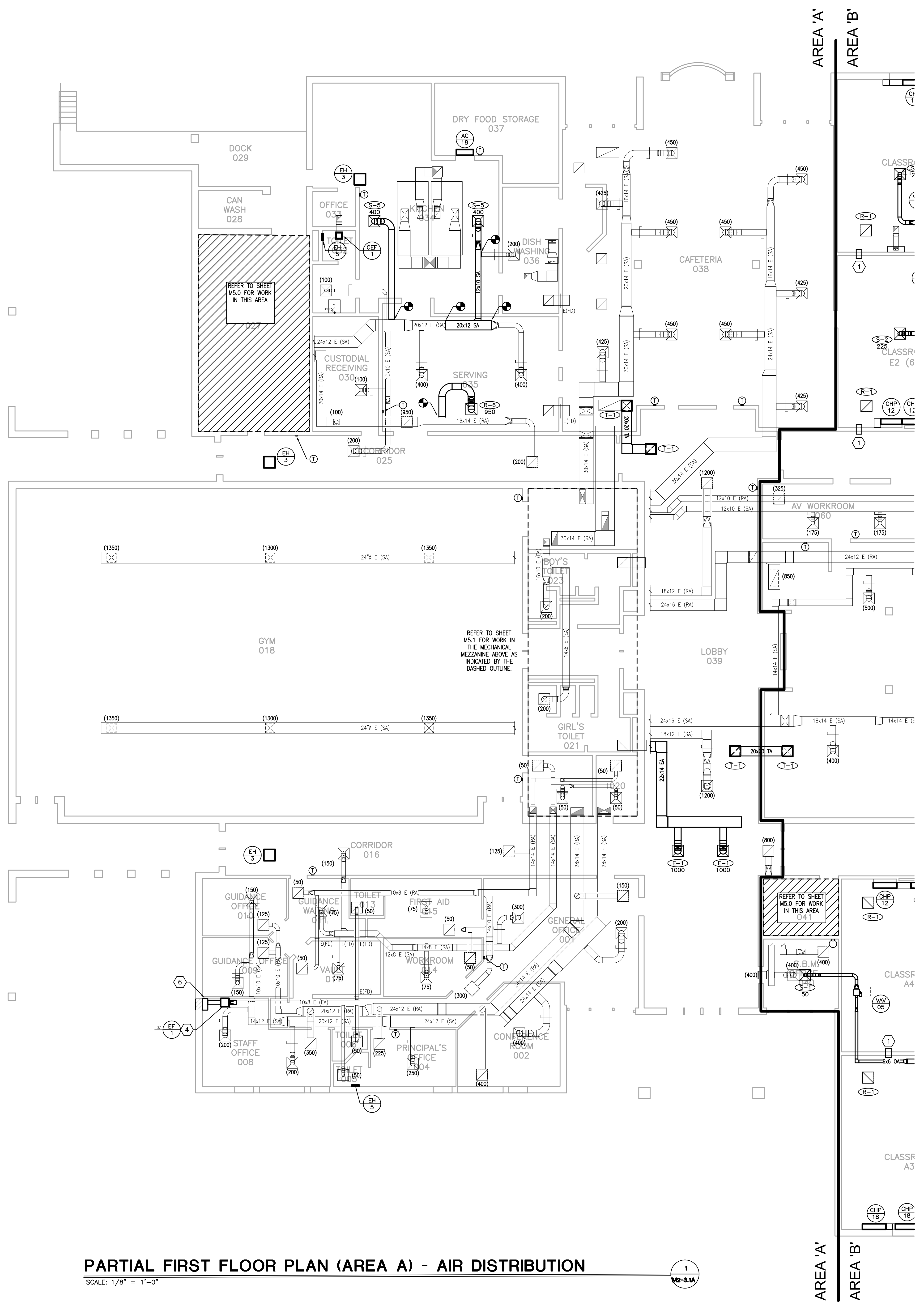
REVISIONS
DATE: 03.11.2022
DRAWN: EM, LA, HC, NT
CHECKED: CC

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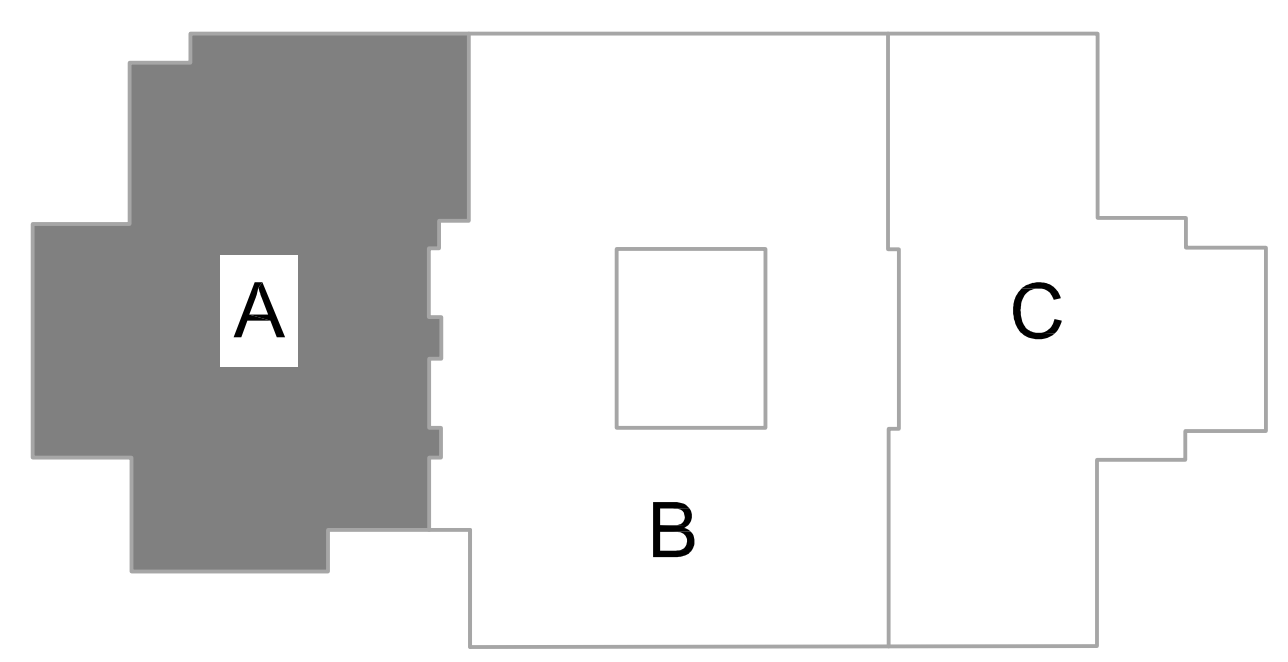
M2-3.1A

- GENERAL NOTES:
- EXISTING GEOTHERMAL PIPING ROUTED UNDERSLAB TO EXISTING WELLFIELD IS TO REMAIN. PROVIDE INTERIOR SHUT-OFF VALVES AS REQUIRED. REFER TO DETAILS FOR MORE INFORMATION.
 - CONTRACTOR RESPONSIBLE FOR VERIFYING PIPE FLOW DIRECTION AND PIPE SIZE FOR CONNECTION.
 - HEAT PUMP INSTALLATION - REFER TO DETAILS ON SHEET M-6.1 FOR PIPE CHASE INFORMATION AND VALVE KIT INFORMATION/ LOCATIONS.
 - PROVIDE A HIGH EFFICIENCY TAKE-OFF AND VOLUME DAMPER AT EACH GRILLE, REGISTER, AND DIFFUSER BRANCH RUNOUT. TYPICAL OF ALL UNLESS DAMPER LOCATION IS SHOWN ON FLOOR PLANS. REFER TO THE DETAIL ON SHEET M-6.0 FOR SPECIFIC REQUIREMENTS.
 - R-1 GRILLE; REFER TO THE RETURN AIR CANOPY DETAIL ON SHEET M-6.0.
 - FOR ALL DUCTS OPEN TO PLENUM SPACE, PROVIDE A 1/2" MESH SCREEN ON THE DUCT OPENING.
 - COORDINATE INSTALLATION OF DUCT MOUNTED SMOKE DETECTORS WITH ELECTRICAL CONTRACTOR.
 - BALANCE ALL DAMPERS (NEW AND EXISTING) TO CFM LISTED ON THE DRAWING - COORDINATE WITH TAB CONTRACTOR.
 - TEMPERATURE CONTROL PANELS (TCP) - COORDINATE LOCATION AND REQUIREMENTS WITH TCC AND ELECTRICAL CONTRACTOR.
 - ALL GRILLES THAT ARE TO REMAIN SHALL BE CLEANED.

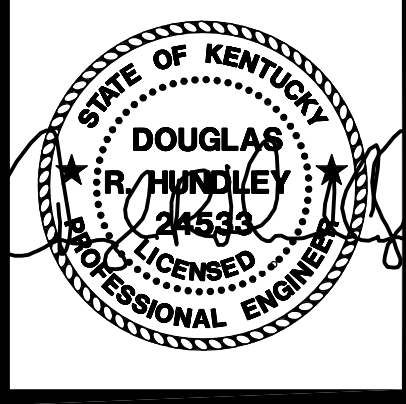
- MECHANICAL NOTES:
- PROVIDE A 12"x10" SHEET METAL SLEEVE IN WALL ABOVE THE CEILING FOR RETURN AIR PATH.
 - DISCHARGE 8" DUCT ABOVE CEILING.
 - PROVIDE A 16"x12" SHEET METAL SLEEVE IN WALL ABOVE THE CEILING FOR RETURN AIR PATH.
 - INSTALL FAN USING VIBRATION ISOLATION HANGERS AND FLEXIBLE CANVAS CONNECTORS AT THE INLET AND OUTLET OF THE FAN. MAINTAIN ACCESS. TRANSITION TO FAN AS REQUIRED.
 - REWORK QUANTITY THREE (3) DOMESTIC WATER PIPES AS REQUIRED TO ACCOMMODATE NEW DUCTWORK ROUTING.
 - PROVIDE NEW PLENUM FULL SIZE OF THE EXISTING LOWER. CONNECT TO PLENUM WITH EXPANDED THROAT TAP. DEPTH OF PLENUM AS INDICATED ON THE DRAWING.
 - PROVIDE 100V POWER TRANSFORMER PANELS. PROVIDE ONE PANEL FOR EVERY 20 LOW VOLTAGE CONNECTIONS REQUIRED. COORDINATE LOCATIONS AND POWER CONNECTIONS WITH THE ELECTRICAL CONTRACTOR.



PARTIAL FIRST FLOOR PLAN (AREA A) - AIR DISTRIBUTION
SCALE: 1/8" = 1'-0"

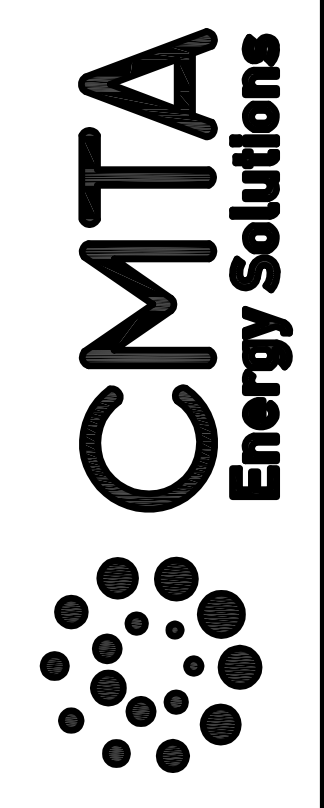


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M2-3.1A



BID SET

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Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
OAK HILL ELEMENTARY SCHOOL
Somerset, KY

FIRST FLOOR AIR DISTRIBUTION - AREA B

REVISIONS

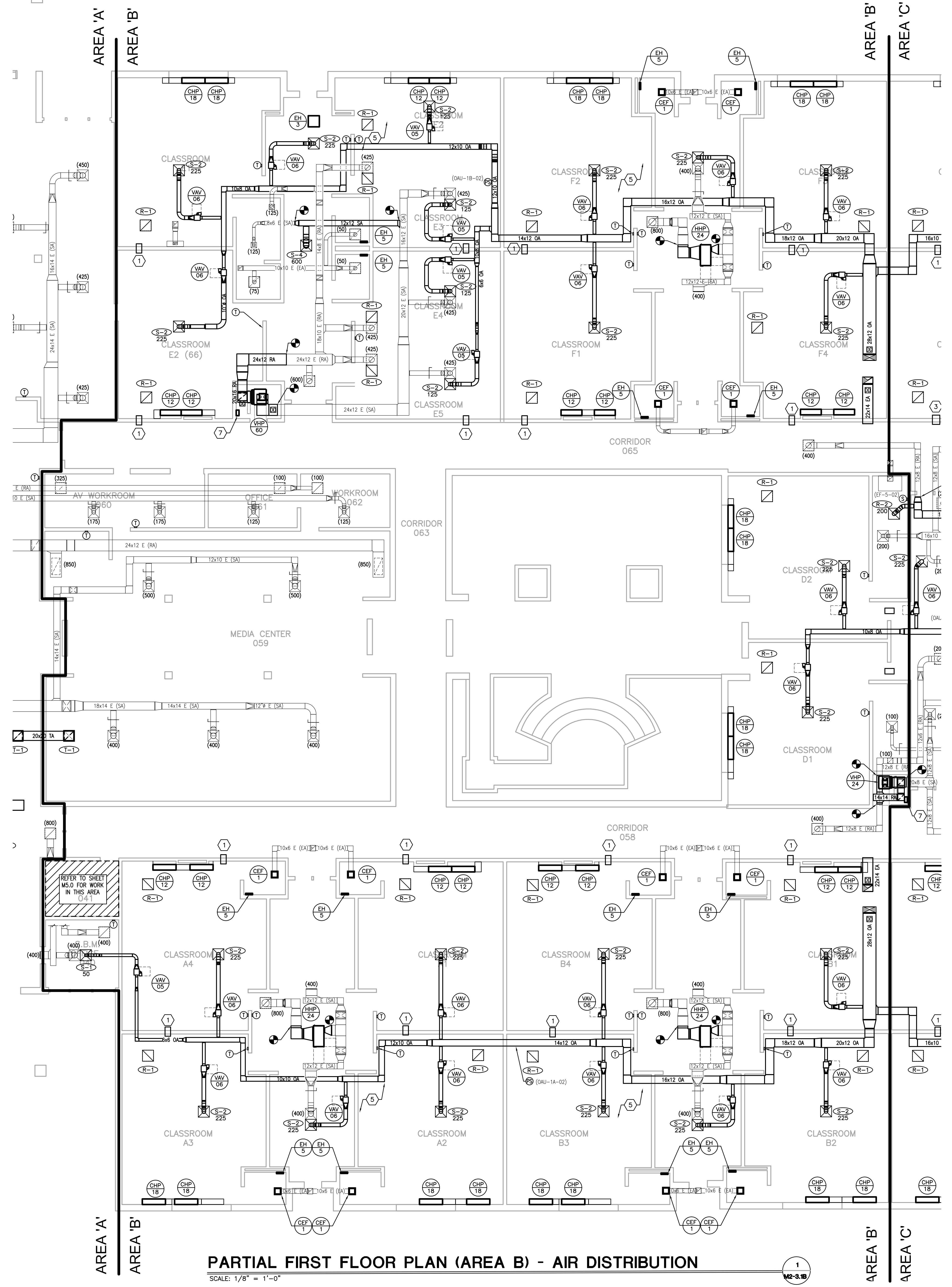
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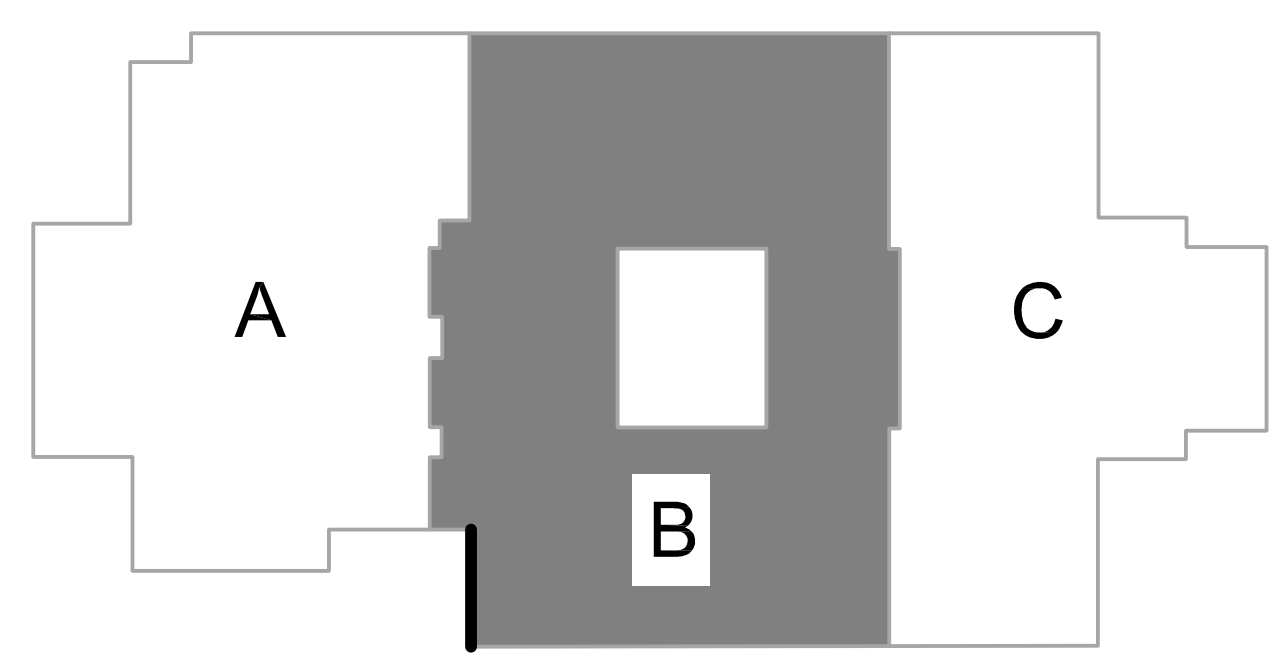
M2-
3.1B

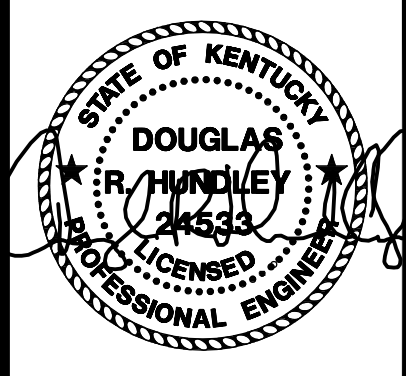
- GENERAL NOTES:
- EXISTING GEOTHERMAL PIPING ROUTED UNDERSLAB TO EXISTING WELLFIELD IS TO REMAIN. PROVIDE INTERIOR SHUT-OFF VALVES AS REQUIRED. REFER TO DETAILS FOR MORE INFORMATION.
 - CONTRACTOR RESPONSIBLE FOR VERIFYING PIPE FLOW DIRECTION AND PIPE SIZE FOR CONNECTION.
 - HEAT PUMP INSTALLATION - REFER TO DETAILS ON SHEET M-6.1 FOR PIPE CHASE INFORMATION AND VALVE KIT INFORMATION/ LOCATIONS.
 - PROVIDE A HIGH EFFICIENCY TAKE-OFF AND VOLUME DAMPER AT EACH GRILLE, REGISTER, AND DIFFUSER BRANCH RUNOUT. TYPICAL OF ALL UNLESS DAMPER LOCATION IS SHOWN ON FLOOR PLANS. REFER TO THE DETAIL ON SHEET M-6.0 FOR SPECIFIC REQUIREMENTS.
 - R-1 GRILLE; REFER TO THE RETURN AIR CANOPY DETAIL ON SHEET M-6.0.
 - FOR ALL DUCTS OPEN TO PLENUM, PROVIDE A 1/2" MESH SCREEN ON THE DUCT OPENING.
 - COORDINATE INSTALLATION OF DUCT MOUNTED SMOKE DETECTORS WITH ELECTRICAL CONTRACTOR.
 - BALANCE ALL DAMPERS (NEW AND EXISTING) TO CFM LISTED ON THE DRAWING - COORDINATE WITH TAB CONTRACTOR.
 - TEMPERATURE CONTROL PANELS (TCP) - COORDINATE LOCATION AND REQUIREMENTS WITH TCC AND ELECTRICAL CONTRACTOR.
 - ALL GRILLES THAT ARE TO REMAIN SHALL BE CLEANED.

- MECHANICAL NOTES:
- PROVIDE A 12"x10" SHEET METAL SLEEVE IN WALL ABOVE THE CEILING FOR RETURN AIR PATH.
 - DISCHARGE 8" DUCT ABOVE CEILING.
 - PROVIDE A 16"x12" SHEET METAL SLEEVE IN WALL ABOVE THE CEILING FOR RETURN AIR PATH.
 - INSTALL FAN USING VIBRATION ISOLATION HANGERS AND FLEXIBLE CANVAS CONNECTORS AT THE INLET AND OUTLET OF THE FAN. MAINTAIN ACCESS. TRANSITION TO FAN AS REQUIRED.
 - REWORK QUANTITY THREE (3) DOMESTIC WATER PIPES AS REQUIRED TO ACCOMMODATE NEW DUCTWORK ROUTING.
 - PROVIDE NEW PLENUM FULL SIZE OF THE EXISTING LOWER. CONNECT TO PLENUM WITH EXPANDED THROAT TAP. DEPTH OF PLENUM AS INDICATED ON THE DRAWING.
 - PROVIDE VAV POWER TRANSFORMER PANELS. PROVIDE ONE PANEL FOR EVERY 20 LOW VOLTAGE CONNECTIONS REQUIRED. COORDINATE LOCATIONS AND POWER CONNECTIONS WITH THE ELECTRICAL CONTRACTOR.



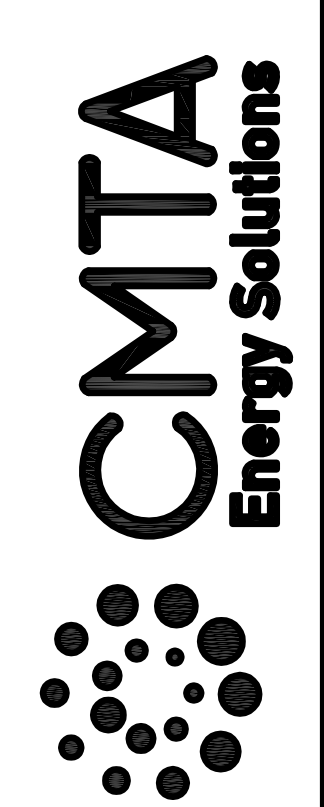
PARTIAL FIRST FLOOR PLAN (AREA B) - AIR DISTRIBUTION
 SCALE: 1/8" = 1'-0"
 1
 M2-3.1B





BID SET

9519 Civic Way, Suite 100
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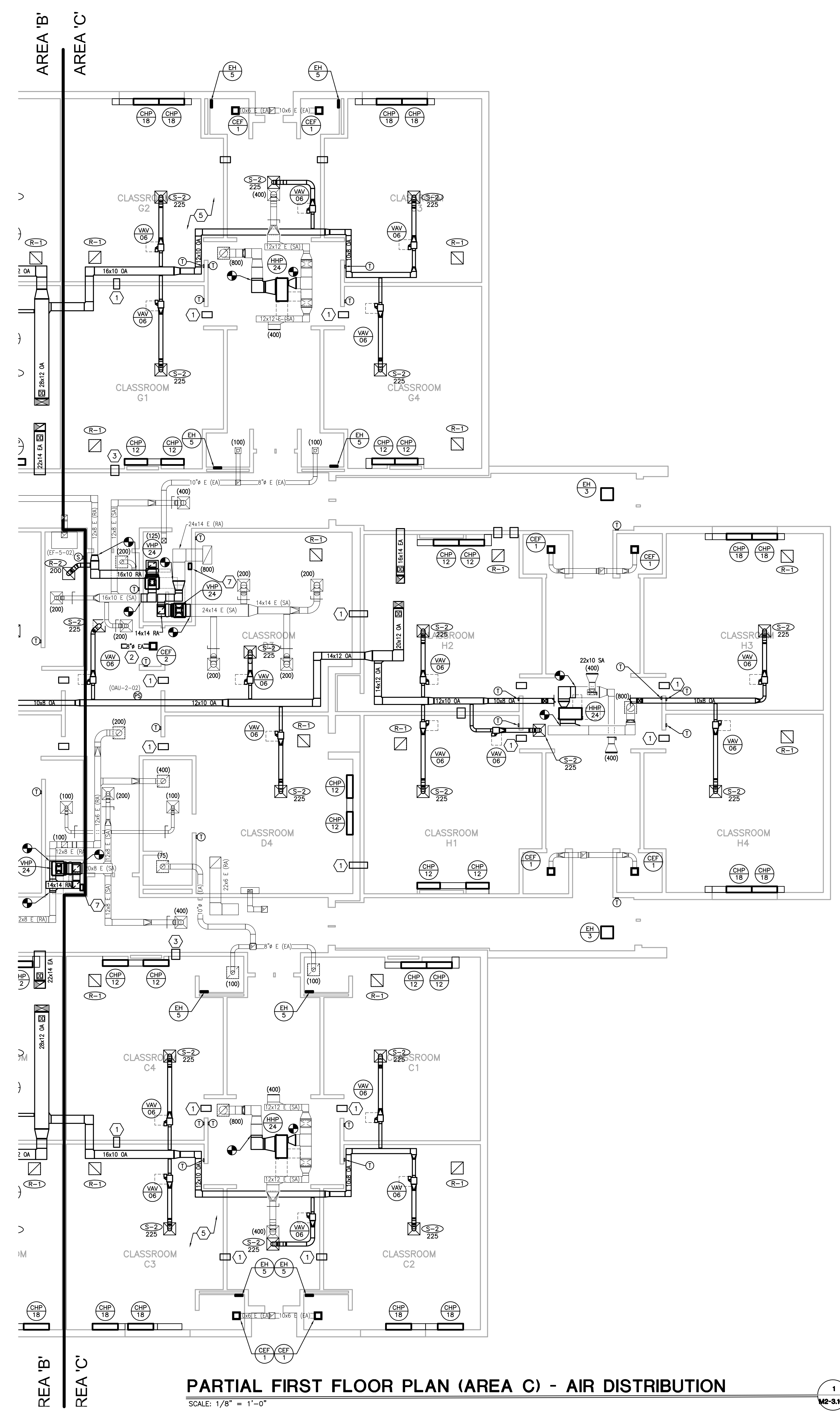
Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
OAK HILL ELEMENTARY SCHOOL
Somerset, KY
FIRST FLOOR AIR DISTRIBUTION - AREA C

REVISIONS
DATE: 03.11.2022
DRAWN: EM, LA, HC, NT
CHECKED: CG

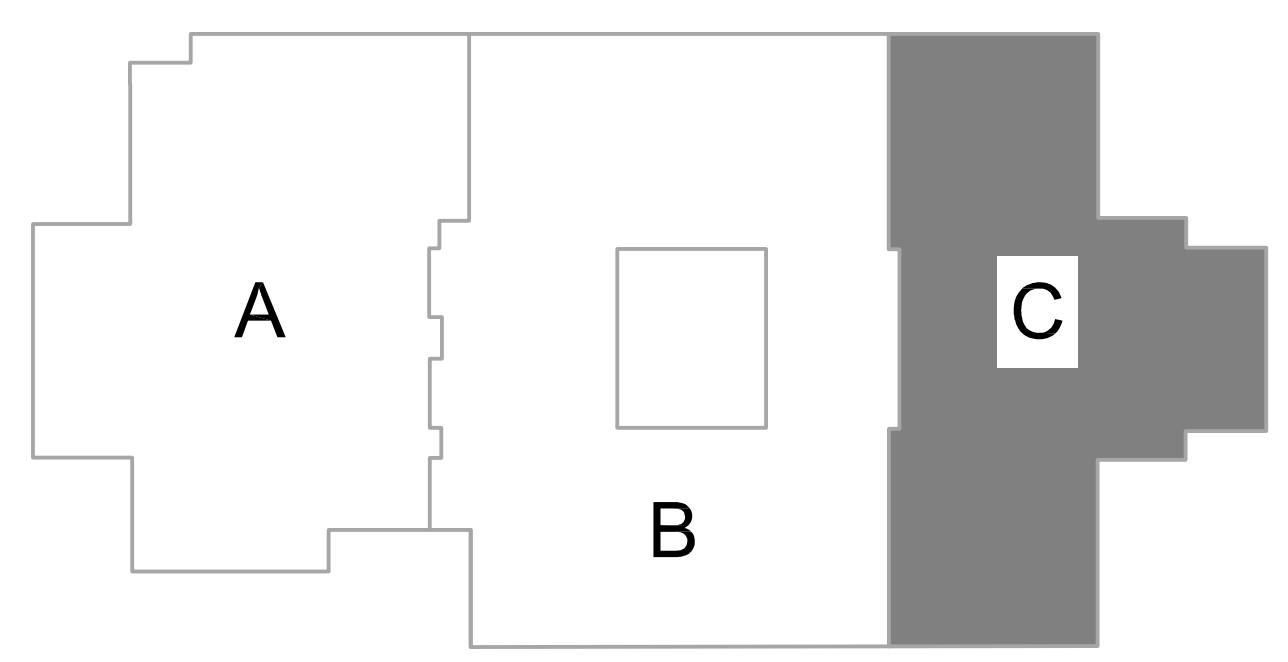
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3.1C

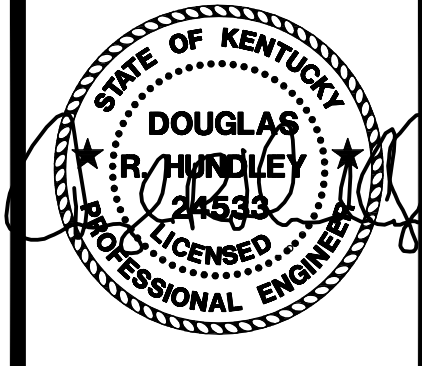
- GENERAL NOTES:
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 - HEAT PUMP INSTALLATION - REFER TO DETAILS ON SHEET M-6.1 FOR PIPE CHASE INFORMATION AND VALVE KIT INFORMATION/ LOCATIONS.
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 - COORDINATE INSTALLATION OF DUCT MOUNTED SMOKE DETECTORS WITH ELECTRICAL CONTRACTOR.
 - BALANCE ALL DAMPERS (NEW AND EXISTING) TO CFM LISTED ON THE DRAWING - COORDINATE WITH TAB CONTRACTOR.
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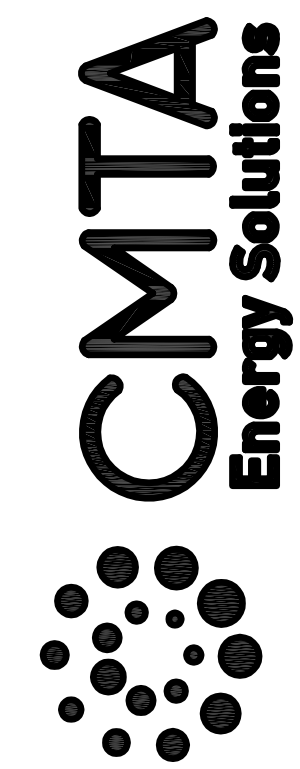
PARTIAL FIRST FLOOR PLAN (AREA C) - AIR DISTRIBUTION
SCALE: 1/8" = 1'-0"





BID SET

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Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
OAK HILL ELEMENTARY SCHOOL
Somerset, KY

ROOF MECHANICAL

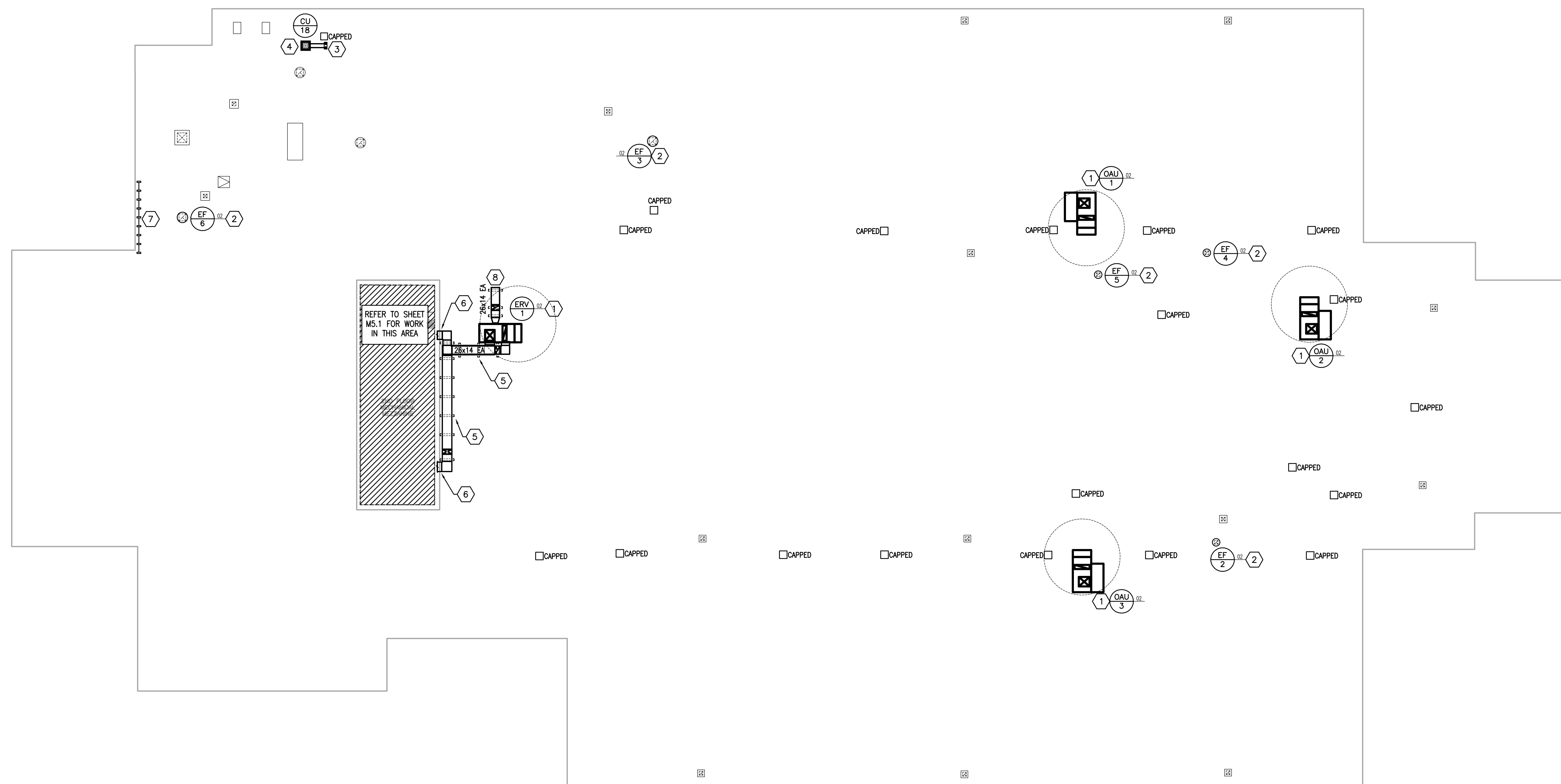
REVISIONS

DATE: 03.11.2022
DRAWN: EM, LA, HC, NT
CHECKED: CG

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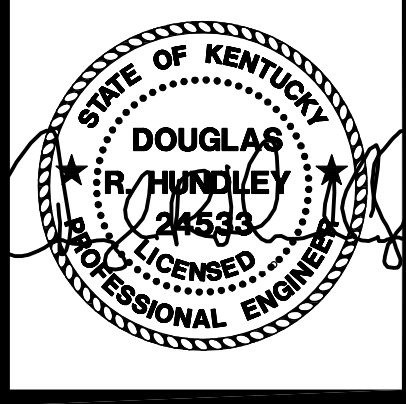
- MECHANICAL NOTES - ROOF:
- NEW ROOF TOP UNIT INSTALLED ON NEW CURB. CUT/PATCH/FLASH ROOF AS REQUIRED. REFER TO DETAILS ON SHEET M-3.2 FOR ADDITIONAL INFORMATION. UNIT CONDENSATE SHALL BE SPILLED TO NEAREST ROOF DRAIN.
 - NEW FAN INSTALLED ON AN EXISTING CURB. PROVIDE CURB ADAPTER AS REQUIRED. TRANSITION DUCTWORK TO FAN OPENING AS REQUIRED.
 - ROUTE THE REFRIGERANT PIPING DOWN THROUGH A NEW ROOF CURB/PIPING PORTAL. PROVIDE A ROOF PRODUCTS MODEL RPPC-90 OR APPROVED EQUAL ROOF CURB WITH PIPE CHASE. REFER TO THE PIPE PORTAL DETAIL ON SHEET M-3.2 FOR ADDITIONAL INFORMATION. ROOF CURB SHALL BE 3'-0" AWAY FROM CONDENSING UNIT. REFRIGERANT PIPING SHALL BE SUPPORTED BY COOPER B-LINE C-SERIES ROOFTOP SUPPORTS.
 - NEW CONDENSING UNIT MOUNTED ON A NEW ROOF CURB. REFER TO DETAIL ON DRAWING M-6.2. CUT/PATCH/FLASH ROOF AS REQUIRED.
 - PROVIDE DUCT SUPPORTS 5'-0" ON CENTER. DUCT SUPPORTS SHALL BE DURA BLOCK DB_DS SERIES. CONTRACTOR TO VERIFY MAXIMUM HEIGHT REQUIRED. INSULATE DUCTWORK PER SPECIFICATION SECTION 202200.
 - ROUTE DUCTWORK THROUGH EXISTING OPENING. INFILL EXISTING OPENING AS REQUIRED TO MATCH ADJACENT SURFACE. SEAL AROUND DUCTWORK PENETRATION AT EXTERIOR WALL WEATHER TIGHT.
 - NEW NON-PENETRATING OSHA COMPLIANT EDGE PROTECTION ROOF RAILING SYSTEM. BASIS OF DESIGN: BLUEWATER "SAFETYRAIL 2000" SYSTEM. MAINTAIN EQUIPMENT CLEARANCES.
 - ROUTE AND TERMINATE EXHAUST DUCTWORK AT LEAST 10'-0" FROM ANY UNIT OUTSIDE AIR INTAKE. PROVIDE DUCT WITH EPOXY WEATHER COATING AND 1/2" MESH SCREEN. FINAL DUCT SUPPORT SHALL BE TRUCKLOAD TEMP-3 RAIL WITH DUCTWORK STRAPPED TO RAIL. COORDINATE RAIL FLASHING WITH GENERAL CONTRACTOR. CUT DUCTWORK END AT 45° ANGLE TO PREVENT RAIN ENTRAPMENT.



ROOF PLAN - MECHANICAL

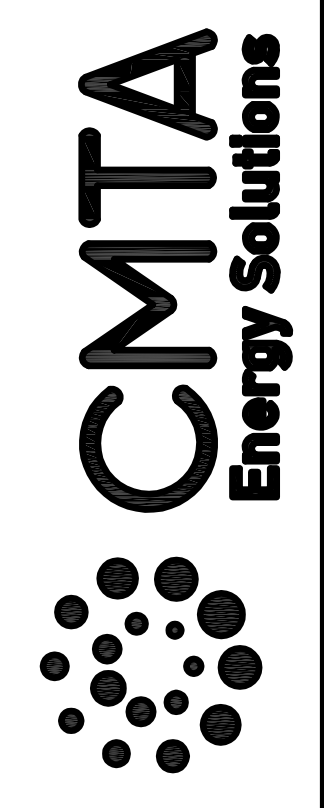
SCALE: 1/16" = 1'-0"

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M2-3.2



BID SET

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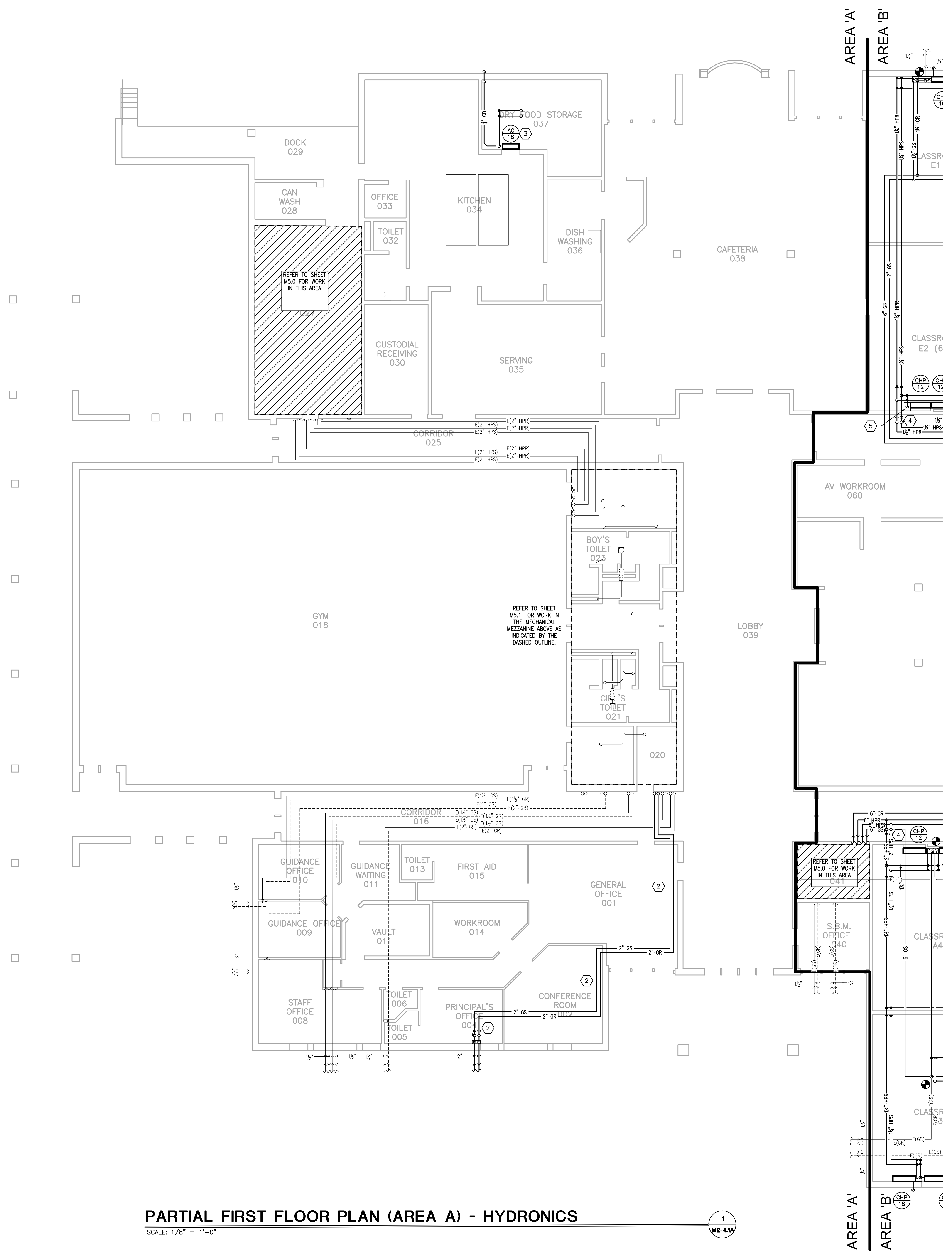
Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
OAK HILL ELEMENTARY SCHOOL
Somerset, KY
FIRST FLOOR HYDRONICS - AREA A

NO.	DATE	DESCRIPTION

DATE: 03.11.2022
DRAWN: BM, LA, HC, NT
CHECKED: CC

SET NO.

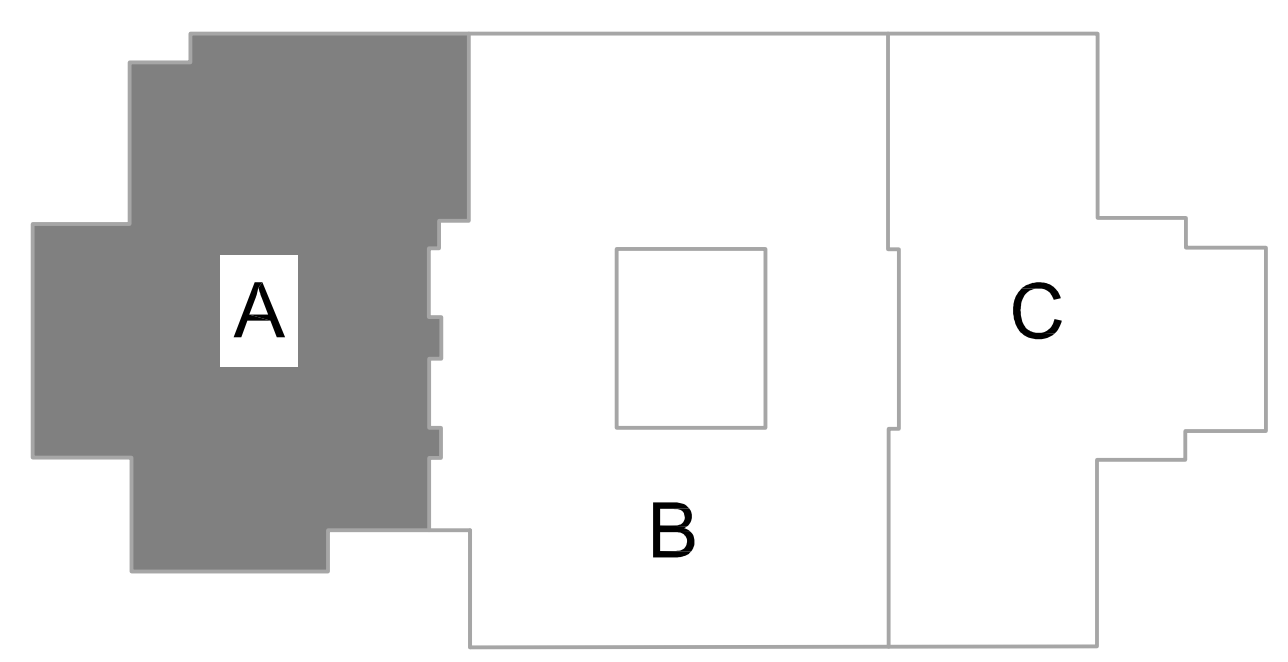
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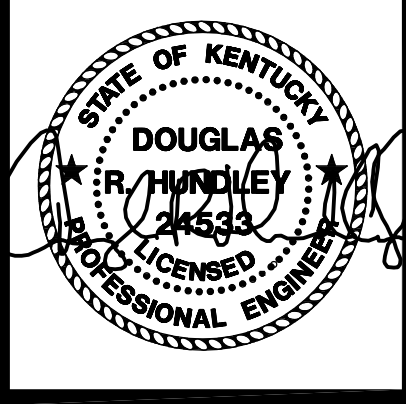


- GENERAL NOTES:
- EXISTING GEOTHERMAL PIPING ROUTED UNDERSLAB TO EXISTING WELLFIELD IS TO REMAIN. PROVIDE INTERIOR SHUT-OFF VALVES AS REQUIRED. REFER TO DETAILS FOR MORE INFORMATION.
 - CONTRACTOR RESPONSIBLE FOR VERIFYING PIPE FLOW DIRECTION AND PIPE SIZE FOR CONNECTION.
 - HEAT PUMP INSTALLATION - REFER TO DETAILS ON SHEET M-6.1 FOR PIPE CHASE INFORMATION AND VALVE KIT INFORMATION/ LOCATIONS.
 - PROVIDE A HIGH EFFICIENCY TAKE-OFF AND VOLUME DAMPER AT EACH GRILLE, REGISTER, AND DIFFUSER BRANCH RUNOUT, TYPICAL OF ALL UNLESS DAMPER LOCATION IS SHOWN ON FLOOR PLANS. REFER TO THE DETAIL ON SHEET M-6.0 FOR SPECIFIC REQUIREMENTS.
 - R-1 GRILLE; REFER TO THE RETURN AIR CANOPY DETAIL ON SHEET M-6.0.
 - FOR ALL DUCTS OPEN TO PLENUM SPACE, PROVIDE A 1/2" MESH SCREEN ON THE DUCT OPENING.
 - COORDINATE INSTALLATION OF DUCT MOUNTED SMOKE DETECTORS WITH ELECTRICAL CONTRACTOR.
 - FIRE DAMPER; REFER TO THE DETAIL ON SHEET M-6.0.
 - BALANCE ALL DAMPERS (NEW AND EXISTING) TO CFM LISTED ON THE DRAWING - COORDINATE WITH TAB CONTRACTOR.
 - TEMPERATURE CONTROL PANELS (TCP) - COORDINATE LOCATION AND REQUIREMENTS WITH TCC AND ELECTRICAL CONTRACTOR.
 - ALL GRILLES THAT ARE TO REMAIN SHALL BE CLEANED.
 - SPILL NEW HEAT PUMP CONDENSATE TO EXISTING CONDENSATE PIPING UP THROUGH SLAB.

- MECHANICAL NOTES:
- INSTALL AND CAP 1" GEOTHERMAL PIPES FOR POSSIBLE FUTURE CONNECTION. PROVIDE FULL SIZE ISOLATION VALVES, 3/4" VALVED DRAIN LINES IN PIPING WITH THREADED HOSE CONNECTION AND CAP ON DRAIN LINE.
 - ROUTE 2" GS/OR FROM ABOVE CEILING SPACE DOWN AND OUT TO SITE. REFER TO SHEET M2-3.0A FOR CONTINUATION OF PIPING. PROVIDE NEW METAL PIPE CHASE TO CONCEAL GEOTHERMAL RISERS. PROVIDE FULL SIZE ISOLATION VALVES, 3/4" VALVED DRAIN LINES IN PIPING WITH THREADED HOSE CONNECTION AND CAP ON DRAIN LINE.
 - COORDINATE MOUNTING HEIGHT OF AC UNIT WITH GENERAL CONTRACTOR. ROUTE REFRIGERANT PIPING UP TO ROOF MOUNTED CONDENSING UNIT THROUGH NEW PIPING PENETRATION. REFER TO ROOF PLAN FOR ADDITIONAL INFORMATION. FASTEN CONDENSATE TO WALL WITH TWO HOLE STAP AND SPILL TO GRADE.
 - PROVIDE FULL SIZE ISOLATION VALVES, 3/4" VALVED DRAIN LINES IN PIPING WITH THREADED HOSE CONNECTION AND CAP ON DRAIN LINE.
 - PROVIDE CONDENSATE PUMP FOR UNIT. PUMP SHALL BE LITTLE GANT MODEL VCM WITH 1/2 GALLON TANK AND OVERFLOW SWITCH. ELECTRICAL DATA: 1/2 HP MOTOR, 120V/14/60 Hz. ROUTE PUMPED CONDENSATE AND SPILL TO EXISTING CONDENSATE.

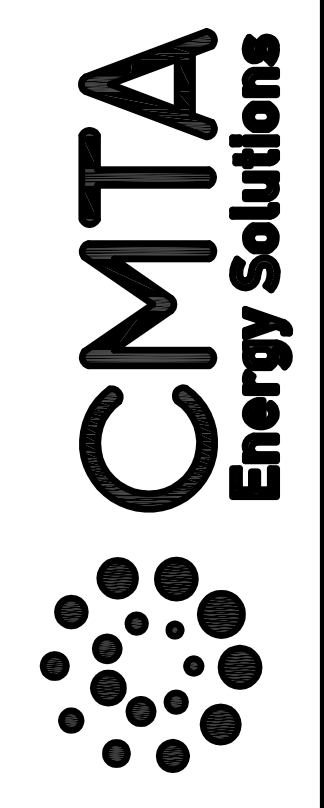
PARTIAL FIRST FLOOR PLAN (AREA A) - HYDRONICS
SCALE: 1/8" = 1'-0"





BID SET

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M: 502 409-4062, C: 502 919-1521
M.Brangers@CMTA.COM



Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
OAK HILL ELEMENTARY SCHOOL
Somerset, KY
FIRST FLOOR HYDRONICS - AREA B

REVISIONS

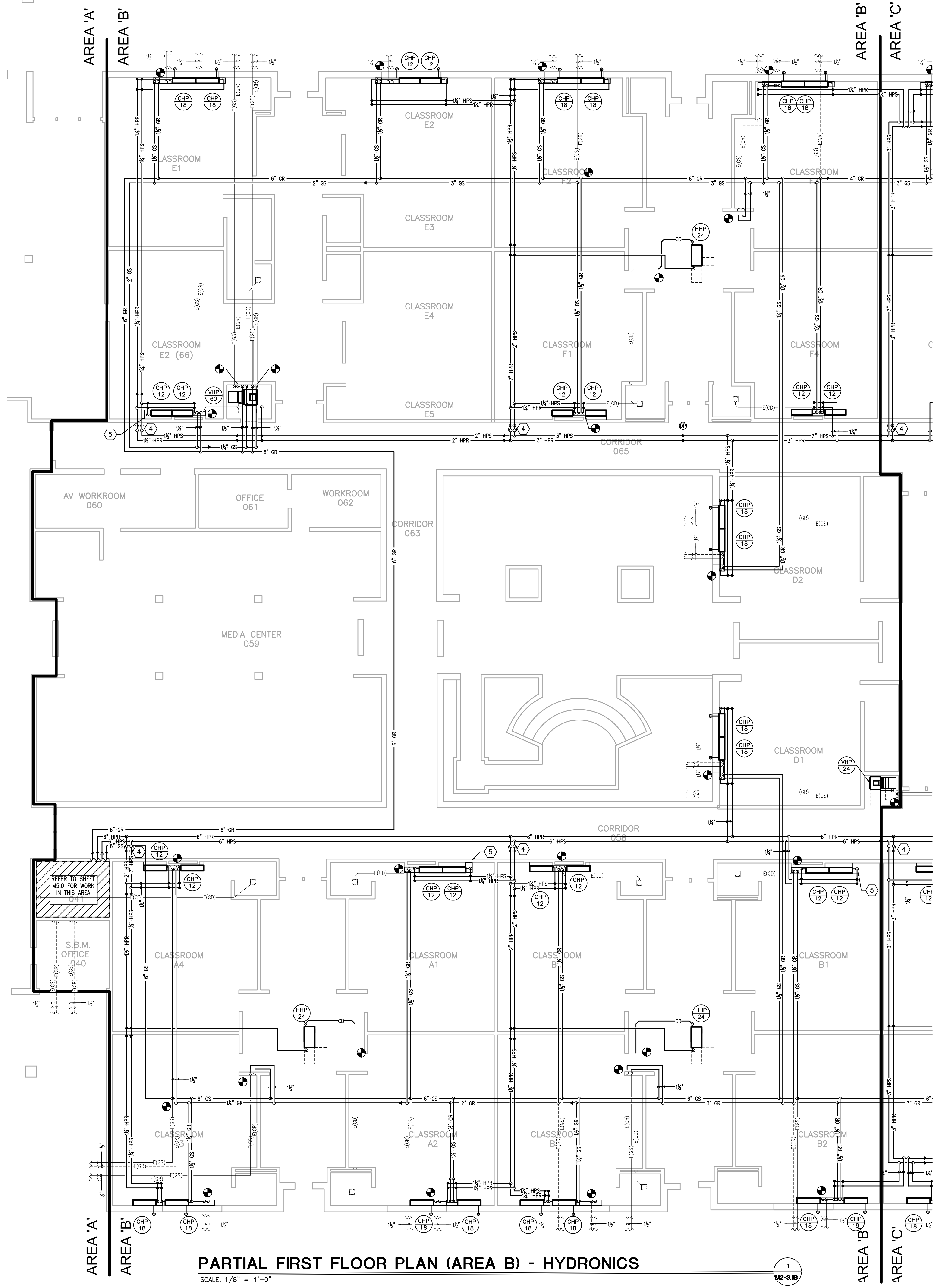
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CHECKED: CC

SET NO.

M2-
4.1B

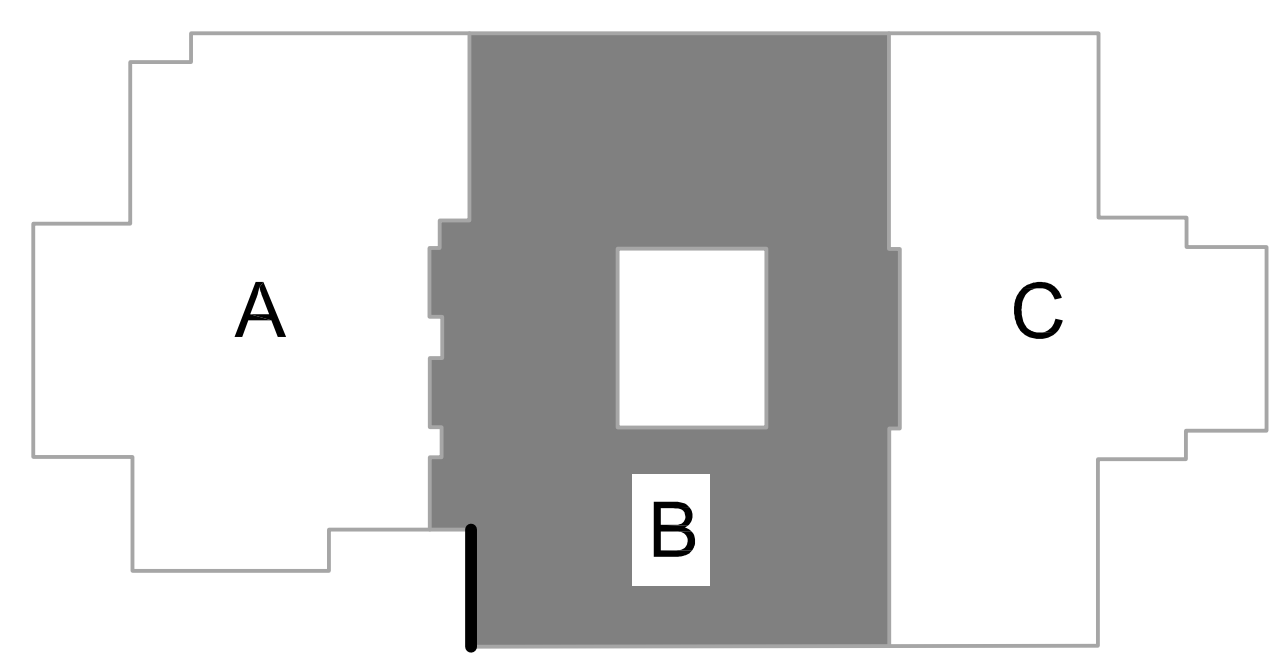
- GENERAL NOTES:
- EXISTING GEOTHERMAL PIPING ROUTED UNDERSLAB IS TO REMAIN. PROVIDE INTERIOR SHUT-OFF VALVES AS REQUIRED. REFER TO DETAILS FOR MORE INFORMATION.
 - CONTRACTOR RESPONSIBLE FOR VERIFYING PIPE FLOW DIRECTION AND PIPE SIZE FOR CONNECTION.
 - HEAT PUMP INSTALLATION - REFER TO DETAILS ON SHEET M-6.1 FOR PIPE CHASE INFORMATION AND VALVE KIT INFORMATION/ LOCATIONS.
 - PROVIDE A HIGH EFFICIENCY TAKE-OFF AND VOLUME DAMPER AT EACH GRILLE, REGISTER, AND DIFFUSER BRANCH RUNOUT. TYPICAL OF ALL UNLESS DAMPER LOCATION IS SHOWN ON FLOOR PLANS. REFER TO THE DETAIL ON SHEET M-6.0 FOR SPECIFIC REQUIREMENTS.
 - R-1 GRILLE; REFER TO THE RETURN AIR CANOPY DETAIL ON SHEET M-6.0.
 - FOR ALL DUCTS OPEN TO PLENUM SPACE, PROVIDE A 1/2" MESH SCREEN ON THE DUCT OPENING.
 - COORDINATE INSTALLATION OF DUCT MOUNTED SMOKE DETECTORS WITH ELECTRICAL CONTRACTOR.
 - FIRE DAMPER; REFER TO THE DETAIL ON SHEET M-6.0.
 - BALANCE ALL DAMPERS (NEW AND EXISTING) TO CFM LISTED ON THE DRAWING - COORDINATE WITH TAB CONTRACTOR.
 - TEMPERATURE CONTROL PANELS (TCP) - COORDINATE LOCATION AND REQUIREMENTS WITH TCC AND ELECTRICAL CONTRACTOR.
 - ALL GRILLES THAT ARE TO REMAIN SHALL BE CLEANED.
 - SPILL NEW HEAT PUMP CONDENSATE TO EXISTING CONDENSATE PIPING UP THROUGH SLAB.

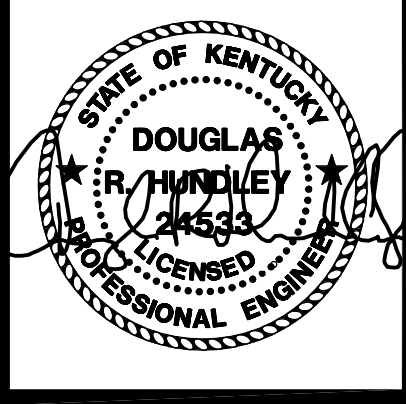
- MECHANICAL NOTES:
- INSTALL AND CAP 1" GEOTHERMAL PIPES FOR POSSIBLE FUTURE CONNECTION. PROVIDE FULL SIZE ISOLATION VALVES, 3/4" VALVED DRAIN LINES IN PIPING WITH THREADED HOSE CONNECTION AND CAP ON DRAIN LINE.
 - ROUTE 2" OS/GR FROM ABOVE CEILING SPACE DOWN AND OUT TO SITE. REFER TO SHEET M2-3.0A FOR CONTINUATION OF PIPING. PROVIDE NEW METAL PIPE CHASE TO CONCEAL GEOTHERMAL RISERS. PROVIDE FULL SIZE ISOLATION VALVES, 3/4" VALVED DRAIN LINES IN PIPING WITH THREADED HOSE CONNECTION AND CAP ON DRAIN LINE.
 - COORDINATE MOUNTING HEIGHT OF AC UNIT WITH GENERAL CONTRACTOR. ROUTE REFRIGERANT PIPING UP TO ROOF MOUNTED CONDENSING UNIT THROUGH NEW PIPING PENETRAL. REFER TO ROOF PLAN FOR ADDITIONAL INFORMATION. FASTEN CONDENSATE TO WALL WITH TWO HOLE STOP AND SPILL TO GRADE.
 - PROVIDE FULL SIZE ISOLATION VALVES, 3/4" VALVED DRAIN LINES IN PIPING WITH THREADED HOSE CONNECTION AND CAP ON DRAIN LINE.
 - PROVIDE CONDENSATE PUMP FOR UNIT. PUMP SHALL BE LITTLE GANT MODEL VCM4 WITH 1/2 GALLON TANK AND OVERFLOW SWITCH. ELECTRICAL DATA: 1/2 HP MOTOR, 120V/14/60 Hz. ROUTE PUMPED CONDENSATE AND SPILL TO EXISTING CONDENSATE.



PARTIAL FIRST FLOOR PLAN (AREA B) - HYDRONICS

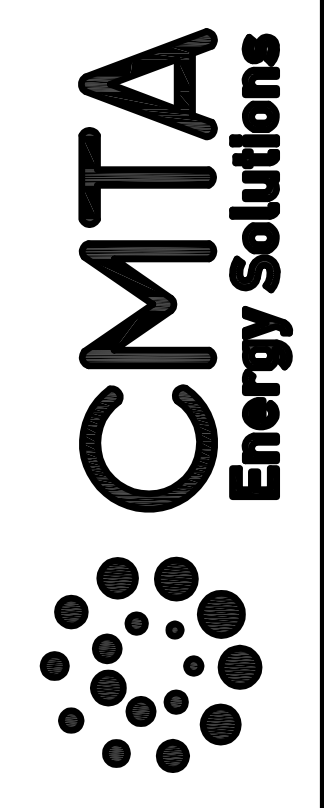
SCALE: 1/8" = 1'-0"





BID SET

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M: Brangers@CMTA.COM

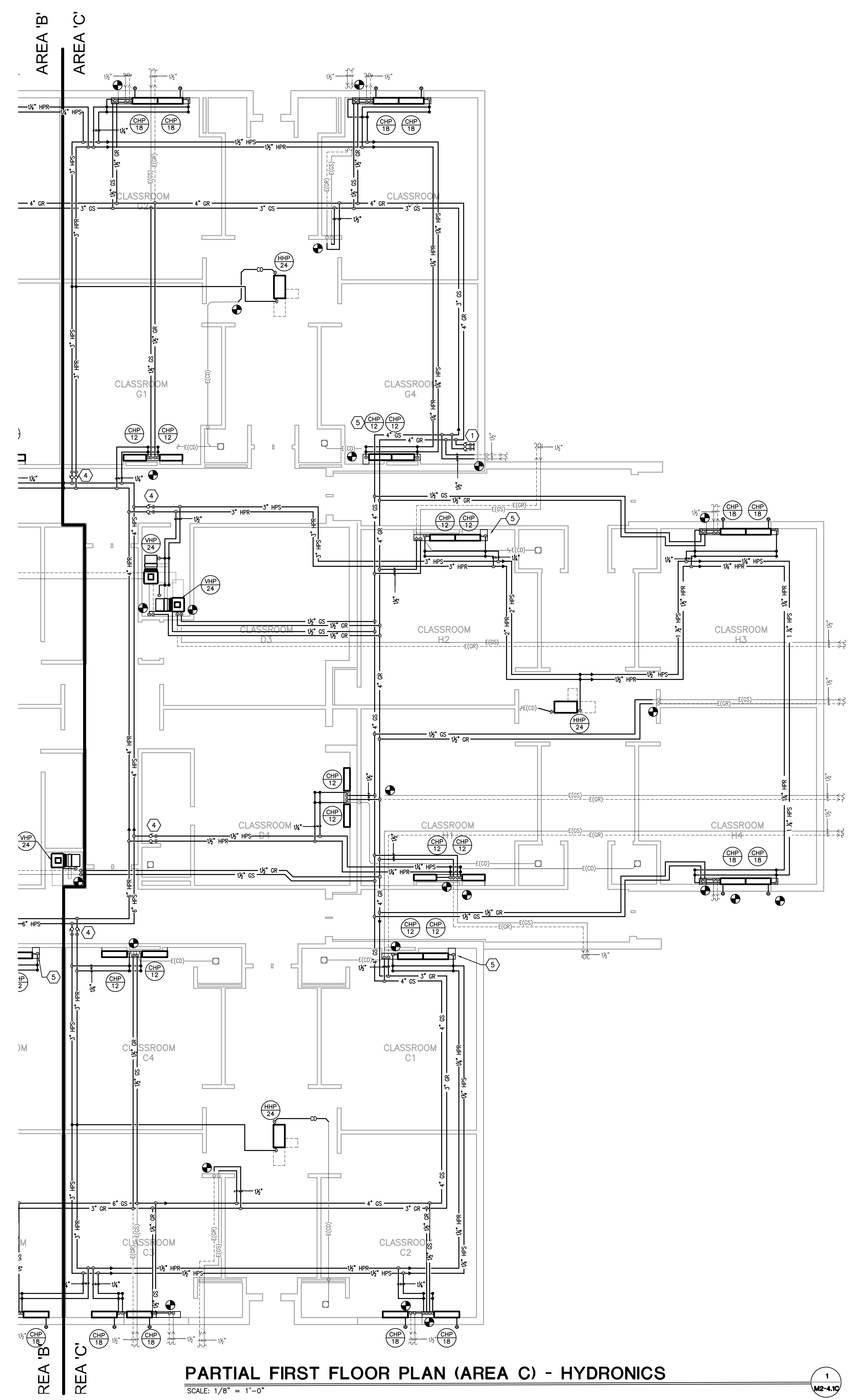


Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
OAK HILL ELEMENTARY SCHOOL
Somerset, KY
FIRST FLOOR HYDRONICS - AREA C

REVISIONS
DATE: 03.11.2022
DRAWN: BM, LA, HC, NT
CHECKED: CG

SET NO.

M2-4.1C



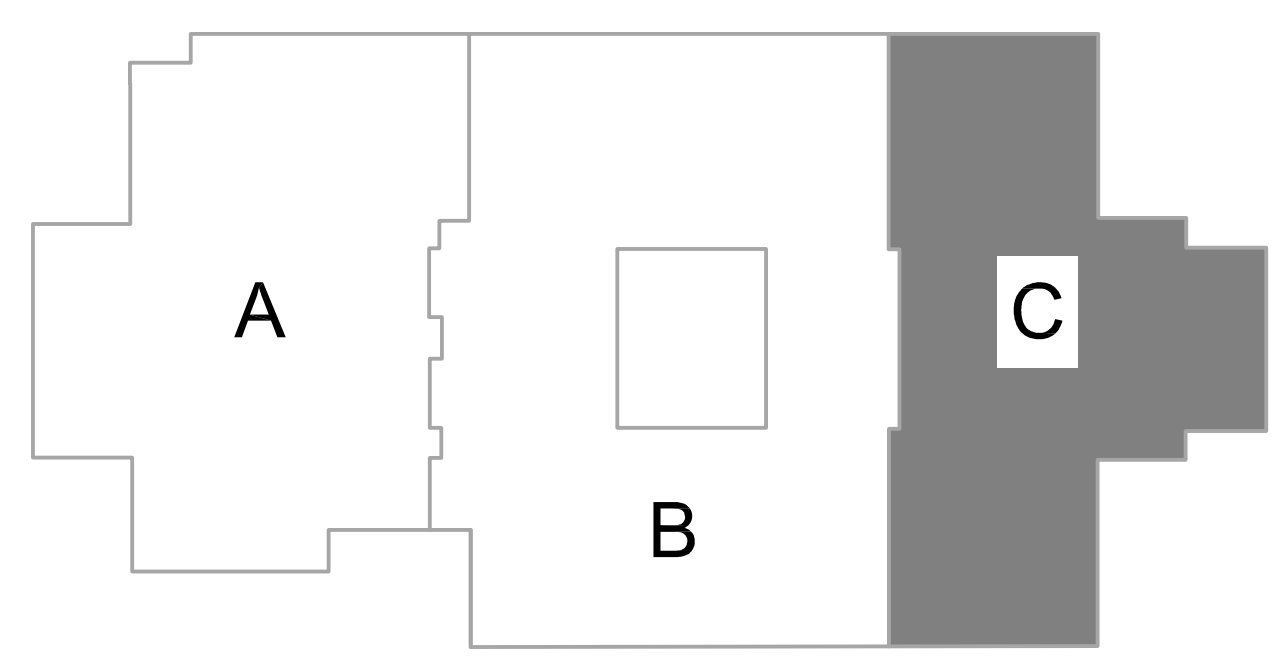
PARTIAL FIRST FLOOR PLAN (AREA C) - HYDRONICS

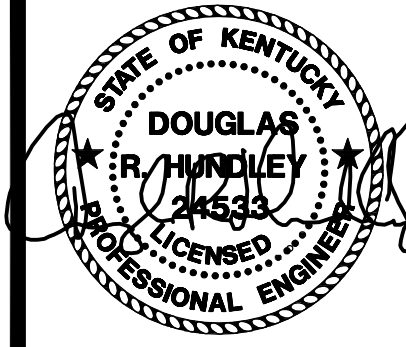
SCALE: 1/8" = 1'-0"

1
M2-4.1C

- GENERAL NOTES:
- EXISTING GEOTHERMAL PIPING ROUTED UNDERSLAB TO EXISTING WELLFIELD IS TO REMAIN. PROVIDE INTERIOR SHUT-OFF VALVES AS REQUIRED. REFER TO DETAILS FOR MORE INFORMATION.
 - CONTRACTOR RESPONSIBLE FOR VERIFYING PIPE FLOW DIRECTION AND PIPE SIZE FOR CONNECTION.
 - HEAT PUMP INSTALLATION - REFER TO DETAILS ON SHEET M-6.1 FOR PIPE CHASE INFORMATION AND VALVE KIT INFORMATION/ LOCATIONS.
 - PROVIDE A HIGH EFFICIENCY TAKE-OFF AND VOLUME DAMPER AT EACH GRILLE, REGISTER, AND DIFFUSER BRANCH RUNOUT. TYPICAL OF ALL UNLESS DAMPER LOCATION IS SHOWN ON FLOOR PLANS. REFER TO THE DETAIL ON SHEET M-6.0 FOR SPECIFIC REQUIREMENTS.
 - R-1 GRILLE; REFER TO THE RETURN AIR CANOPY DETAIL ON SHEET M-6.0.
 - FOR ALL DUCTS OPEN TO PLENUM SPACE, PROVIDE A 1/2" MESH SCREEN ON THE DUCT OPENING.
 - COORDINATE INSTALLATION OF DUCT MOUNTED SMOKE DETECTORS WITH ELECTRICAL CONTRACTOR.
 - FIRE DAMPER; REFER TO THE DETAIL ON SHEET M-6.0.
 - BALANCE ALL DAMPERS (NEW AND EXISTING) TO CFM LISTED ON THE DRAWING - COORDINATE WITH TAB CONTRACTOR.
 - TEMPERATURE CONTROL PANELS (TCP) - COORDINATE LOCATION AND REQUIREMENTS WITH TCC AND ELECTRICAL CONTRACTOR.
 - ALL GRILLES THAT ARE TO REMAIN SHALL BE CLEANED.
 - SPILL NEW HEAT PUMP CONDENSATE TO EXISTING CONDENSATE PIPING UP THROUGH SLAB.

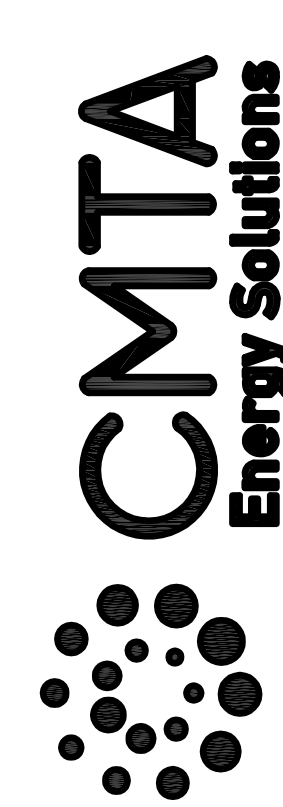
- MECHANICAL NOTES:
- INSTALL AND CAP 1.5" GEOTHERMAL PIPES FOR POSSIBLE FUTURE CONNECTION. PROVIDE FULL SIZE ISOLATION VALVES, 3/4" VALVED DRAIN LINES IN PIPING WITH THREADED HOSE CONNECTION AND CAP ON DRAIN LINE.
 - ROUTE 2" GS/GR FROM ABOVE CEILING SPACE DOWN AND OUT TO SITE. REFER TO SHEET M2-3.0A FOR CONTINUATION OF PIPING. PROVIDE NEW METAL PIPE CHASE TO CONCEAL GEOTHERMAL RISERS. PROVIDE FULL SIZE ISOLATION VALVES, 3/4" VALVED DRAIN LINES IN PIPING WITH THREADED HOSE CONNECTION AND CAP ON DRAIN LINE.
 - COORDINATE MOUNTING HEIGHT OF AC UNIT WITH GENERAL CONTRACTOR. ROUTE REFRIGERANT PIPING UP TO ROOF MOUNTED CONDENSING UNIT THROUGH NEW PIPING PENETRATION. REFER TO ROOF PLAN FOR ADDITIONAL INFORMATION. FASTEN CONDENSATE TO WALL WITH TWO HOLE STOP AND SPILL TO GRADE.
 - PROVIDE FULL SIZE ISOLATION VALVES, 3/4" VALVED DRAIN LINES IN PIPING WITH THREADED HOSE CONNECTION AND CAP ON DRAIN LINE.
 - PROVIDE CONDENSATE PUMP FOR UNIT. PUMP SHALL BE LITTLE GANT MODEL VCM WITH 1/2 GALLON TANK AND OVERFLOW SWITCH. ELECTRICAL DATA: 1/2 HP MOTOR, 120V/14/60 Hz. ROUTE PUMPED CONDENSATE AND SPILL TO EXISTING CONDENSATE.





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Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
OAK HILL ELEMENTARY SCHOOL
Somerset, KY

ENLARGED MECHANICAL PLANS

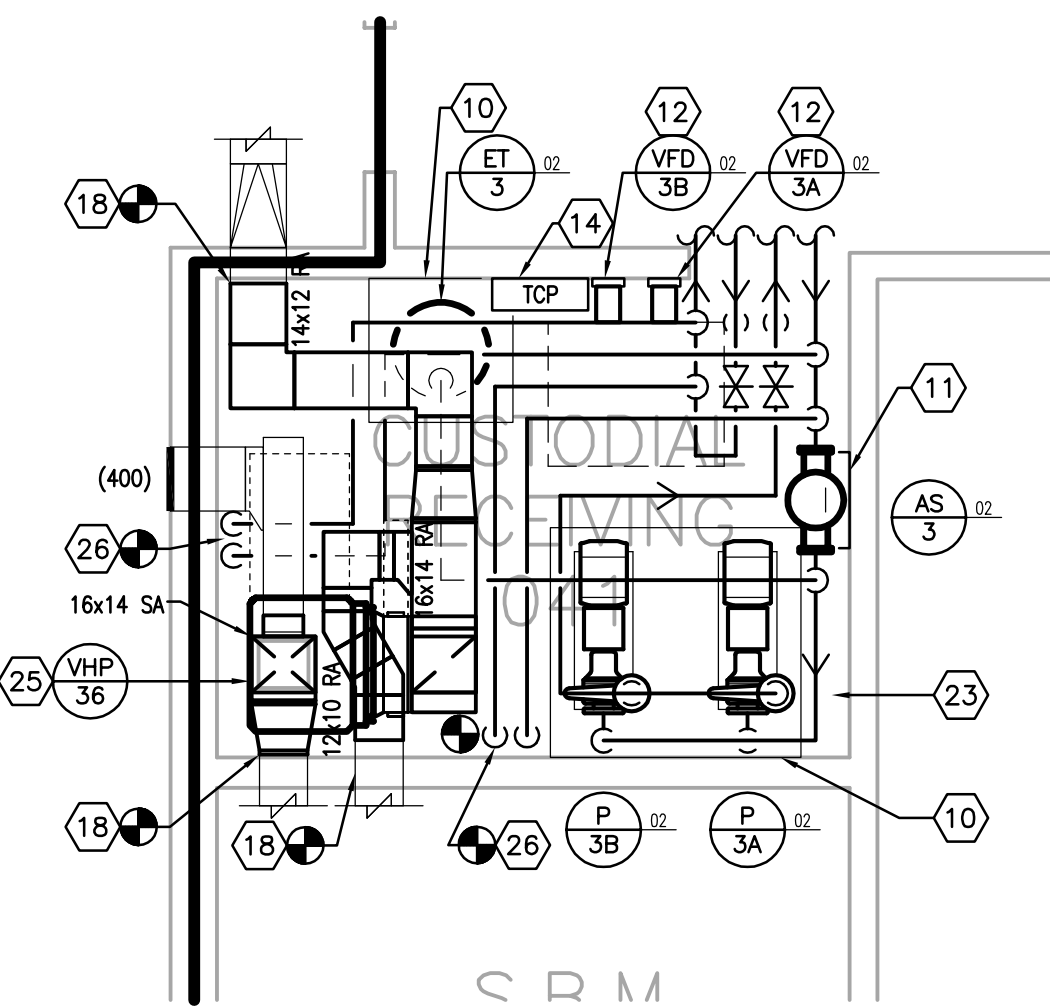
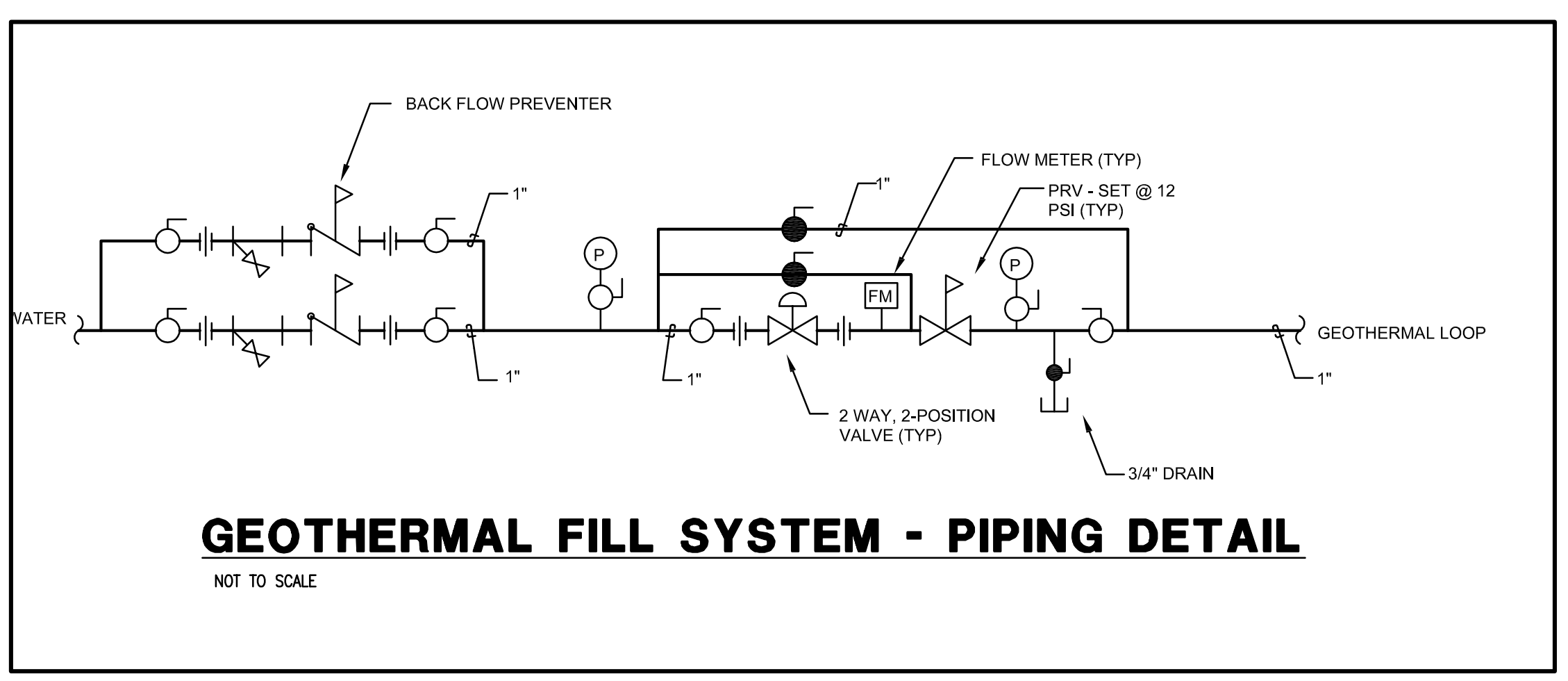
REVISIONS

DATE: 03.11.2022
DRAWN: BM, LA, HC, NT
CHECKED: CG

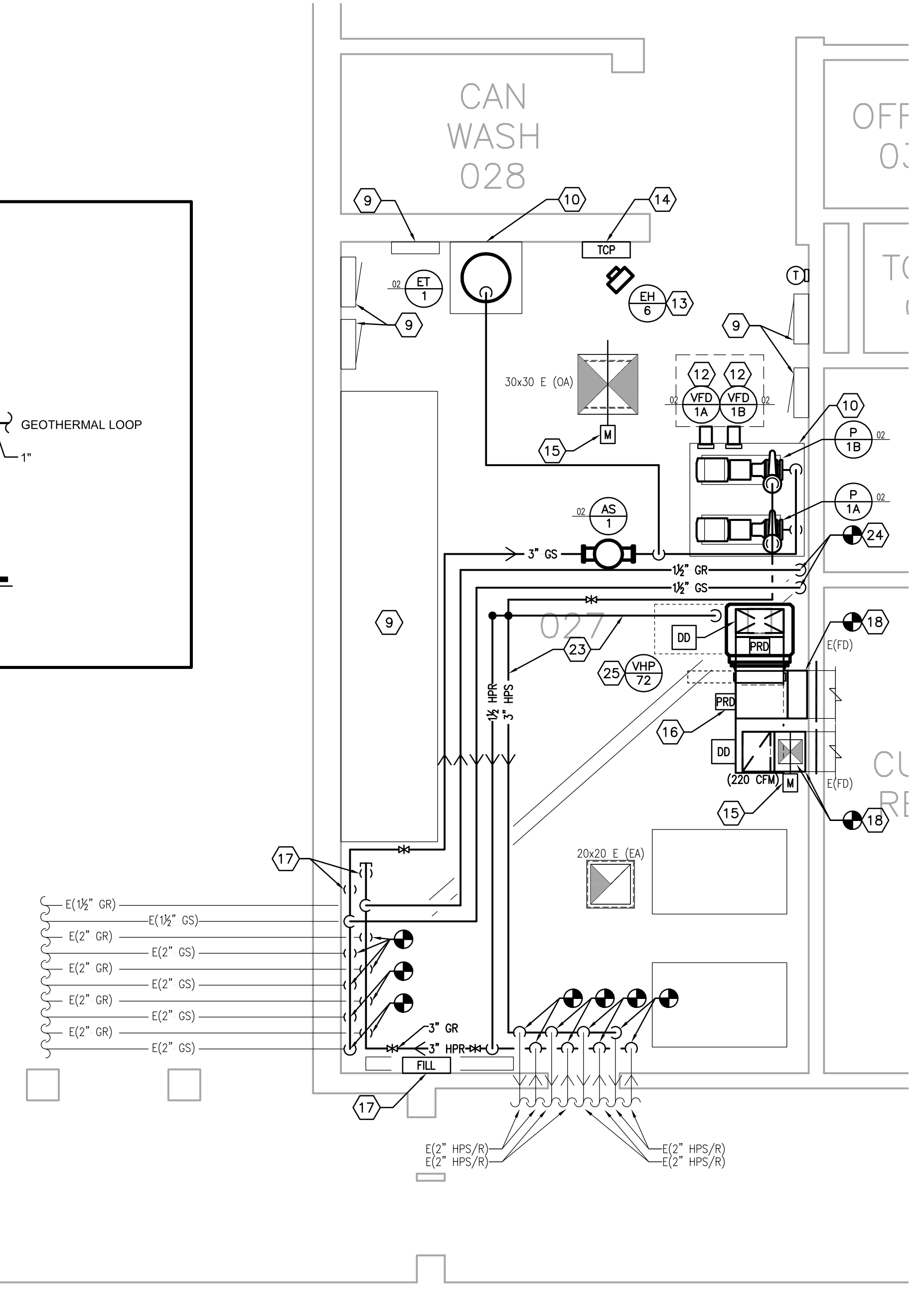
SET NO.

M2-5.0

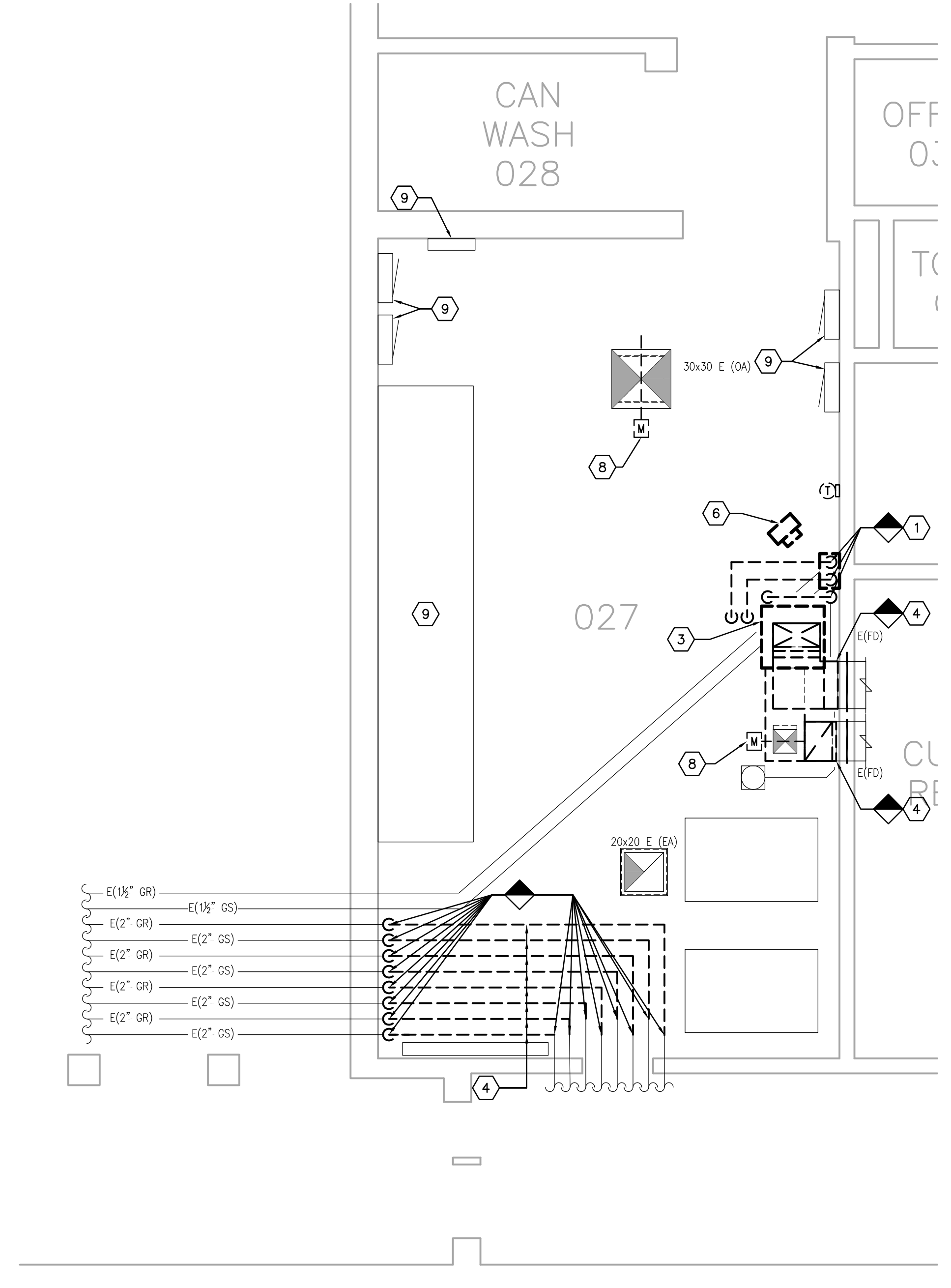
- ENLARGED MECHANICAL ROOMS - GENERAL NOTES:
- PATCH ALL WALL/ROOF/FLOOR PENETRATIONS WHERE EXISTING MEP EQUIPMENT/PIPING/DUCTWORK/ETC IS REMOVED.
 - REMOVE ALL CONCRETE PADS/SUPPORTS ASSOCIATED WITH MEP EQUIPMENT REMOVAL COMPLETELY; REMOVE ALL ABANDONED PADS/SUPPORTS COMPLETELY; PATCH AND SMOOTH FLOOR AS REQUIRED.
- ENLARGED MECHANICAL ROOMS:
- EXISTING PUMPS TO BE COMPLETELY REMOVED INCLUDING ALL EXISTING MECHANICAL, ELECTRICAL AND CONTROLS CONNECTIONS.
 - EXISTING PIPING AND ALL ASSOCIATED VALVES, HANGERS, AND SUPPORTS TO BE COMPLETELY REMOVED TO POINT INDICATED ON THE DRAWING. PATCH WALLS/SLAB/CEILING AT PIPING OPENINGS (TYPICAL). REFER TO NEW WORK FOR ADDITIONAL INFORMATION.
 - EXISTING HEAT PUMP TO BE REMOVED COMPLETELY, INCLUDING ALL ASSOCIATED DUCTWORK, PIPING, CONDENSATE DRAIN AND PUMP (IF APPLICABLE), ELECTRICAL AND CONTROLS CONNECTIONS. PATCH WALL/FLOOR AS REQUIRED FOR COMPLETE EQUIPMENT REMOVAL.
 - EXISTING SUPPLY/RETURN/EXHAUST/OUTDOOR AIR DUCTWORK, GRILLES, AND RISER INDICATED TO BE REMOVED COMPLETELY TO POINT INDICATED ON DRAWING. REMOVE ALL ASSOCIATED HANGERS/SUPPORTS/ACCESSORIES. PATCH WALLS/SLAB/CEILING AT DUCT OPENINGS (TYPICAL). REFER TO NEW WORK FOR ADDITIONAL INFORMATION.
 - EXISTING LOUVER TO REMAIN. BLANK OFF THE INSIDE OF THE EXISTING LOUVER WITH SHEET METAL AND INSULATE WITH 2" ROOF INSULATION. COORDINATE LOUVER INFILL AND FINISH FINISHES WITH GENERAL CONTRACTOR.
 - REMOVE EXISTING ELECTRIC HEATER INCLUDING ALL ELECTRICAL AND CONTROLS CONNECTIONS.
 - EXISTING LOUVER TO BE REMOVED COMPLETELY. REFER TO NEW WORK FOR ADDITIONAL INFORMATION.
 - REMOVE EXISTING MOTORIZED DAMPER IN OUTSIDE DUCTWORK AND REFER TO NEW WORK FOR ADDITIONAL INFORMATION.
 - ELECTRICAL PANEL OR EQUIPMENT. DO NOT ROUTE DUCTWORK OR PIPING ABOVE THE PANELS.
 - PROVIDE 4" THICK CONCRETE PAD UNDER MECHANICAL EQUIPMENT. PAD SHALL BE 6" LARGER THAN THE MECHANICAL EQUIPMENT FOOTPRINT IN ALL DIRECTIONS UNLESS SHOWN LARGER ON THE FLOOR PLAN.
 - HYDRONIC FILL SYSTEM. MOUNT AT 48" A.F.F. REFER TO DETAIL ON SHEET MS.1.
 - PROVIDE A UN-STRUT STAND FOR THE VFD. COORDINATE INSTALLATION WITH THE ELECTRICAL CONTRACTOR. PROVIDE VERTICAL UN-STRUT ON WALL MOUNTED VFD'S.
 - MOUNT THE BOTTOM OF THE UNIT HEATER 9'-0" AFF.
 - NEW CONTROL PANEL FOR DDC SYSTEM. COORDINATE DATA AND POWER CONNECTION WITH THE ELECTRICAL CONTRACTOR.
 - MOTORIZED DAMPER. COORDINATE WITH TCC AND REFER TO CONTROL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - INSTALL PRESSURE RELIEF DOOR IN AN ACCESSIBLE LOCATION. ENSURE PRESSURE RELIEF DOOR CAN FULLY OPEN. TYPICAL.
 - INSTALL AND CAP 1/2" GEOTHERMAL PIPES FOR POSSIBLE FUTURE CONNECTION. PROVIDE FULL SIZE ISOLATION VALVES AND REFER TO PIPING SCHEMATIC ON THIS SHEET FOR ADDITIONAL INFORMATION.
 - CONNECT NEW DUCTWORK TO EXISTING DUCTWORK AT WALL / FLOOR PENETRATION. PROVIDE TRANSITION AS REQUIRED.
 - INSTALL (3) PLENUMS THE FULL SIZE OF LOUVER AND WIDTH AS SPECIFIED. CONNECT DUCTWORK TO PLENUM WITH EXPANDED THROAT TAP. PLENUM DEPTH SHALL BE 36". EXTEND PLENUM AS REQUIRED TO MAKE DUCTWORK CONNECTION. ENLARGE OPENING FOR NEW LOUVER. COORDINATE WITH GC.
 - REFER TO SHEET SERIES M2-3.1X FOR DUCTWORK CONTINUATION.
 - REFER TO SHEET M2-3.2 FOR DUCTWORK CONTINUATION.
 - PROVIDE ACCESS DOOR IN DUCTWORK AS RECOMMENDED BY AFD MANUFACTURER. INSTALL AFD PER MANUFACTURER'S INSTRUCTION.
 - REFER TO PIPING SCHEMATIC ON THIS SHEET FOR ADDITIONAL INFORMATION.
 - CONNECT TO PIPING AT FLOOR PENETRATION. CONTRACTOR TO VERIFY FLOW DIRECTION AND CONNECTION SIZE.
 - SPILL HEAT PUMP CONDENSATE TO EXISTING CONDENSATE PIPE STUBBED THROUGH MECHANICAL ROOM FLOOR. FIELD VERIFY LOCATION AND RELOCATE AS REQUIRED TO ACCOMMODATE NEW HEAT PUMP LAYOUT.
 - CONNECT TO PIPING AT FLOOR PENETRATION. CONTRACTOR TO VERIFY FLOW DIRECTION AND CONNECTION SIZE. PROVIDE SHUT-OFF VALVES AT POINT OF CONNECTION.
 - REMOVE EXISTING EXHAUST FAN INCLUDING ALL ELECTRICAL AND CONTROLS CONNECTIONS (DISCONNECTS/SWITCHES/ETC).



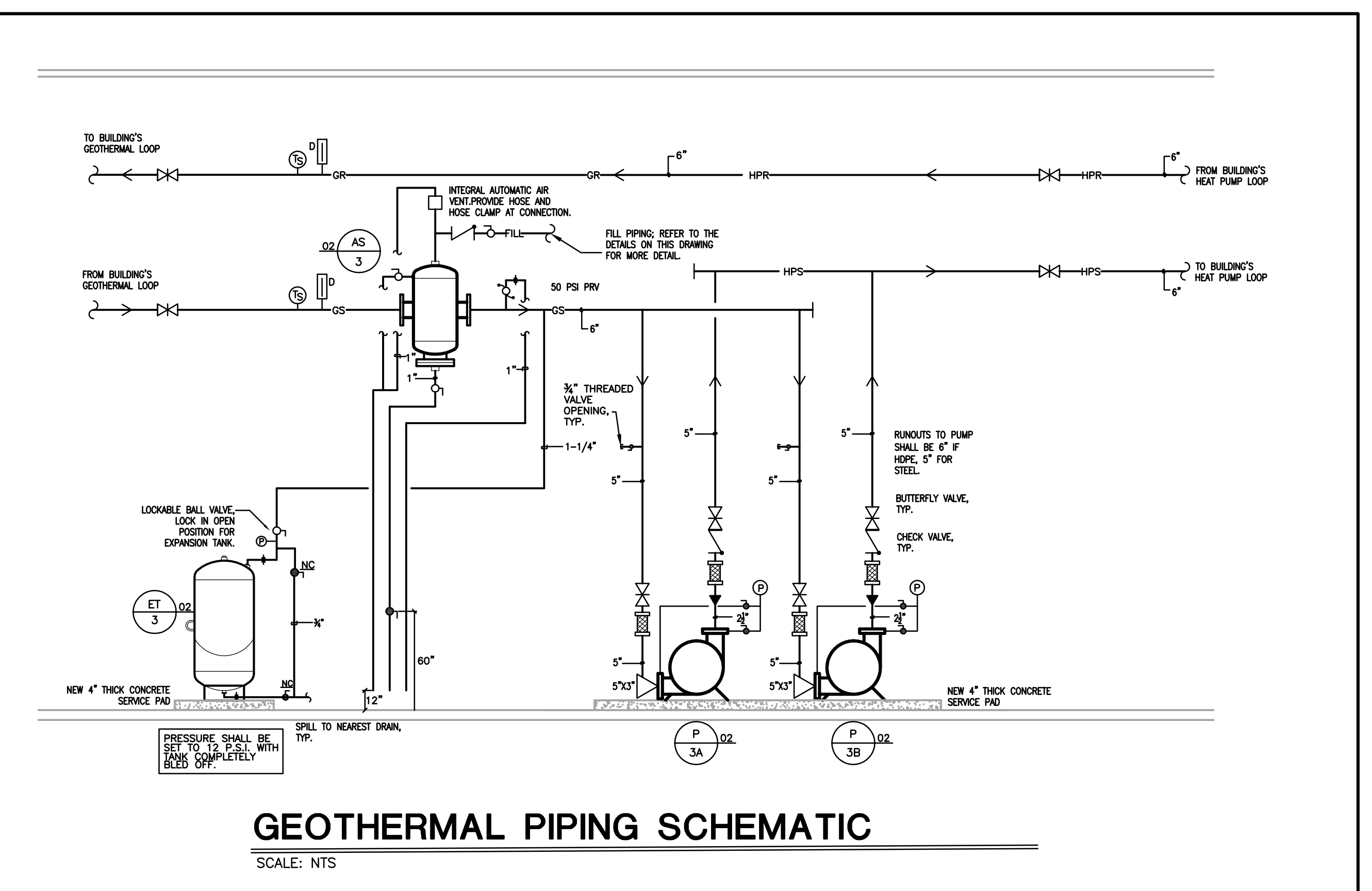
ENLARGED PUMP ROOM
MECHANICAL NEW WORK
SCALE: 1/4" = 1'-0"



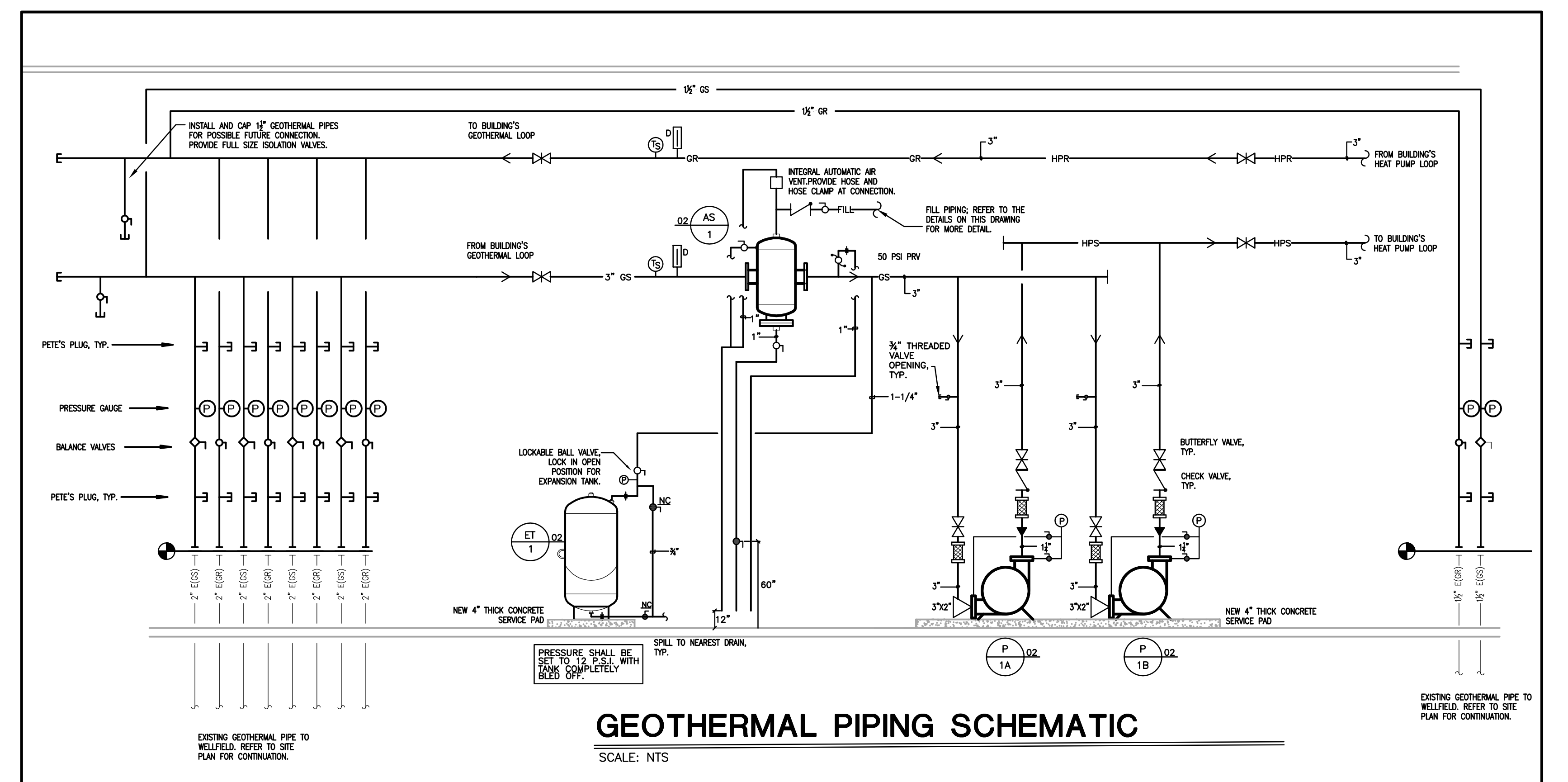
ENLARGED MECHANICAL ROOM 027 -
MECHANICAL NEW WORK
SCALE: 1/4" = 1'-0"



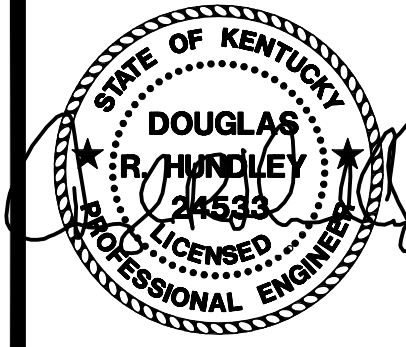
ENLARGED MECHANICAL ROOM 027 -
MECHANICAL DEMOLITION
SCALE: 1/4" = 1'-0"



GEOTHERMAL PIPING SCHEMATIC
SCALE: NTS

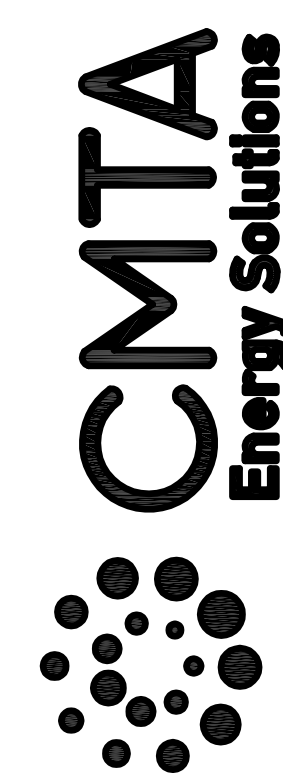


GEOTHERMAL PIPING SCHEMATIC
SCALE: NTS



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Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
OAK HILL ELEMENTARY SCHOOL
Somerset, KY

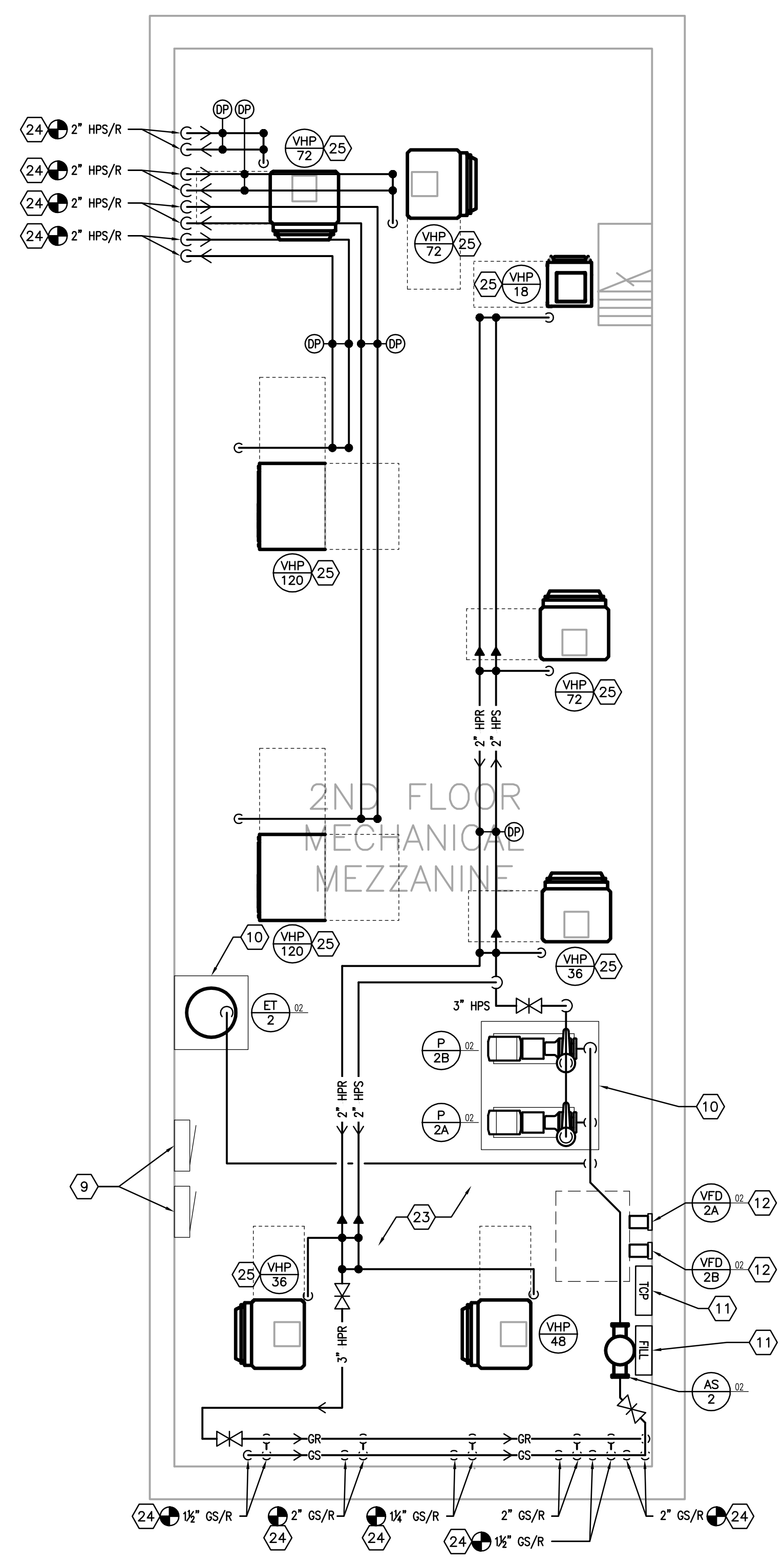
ENLARGED MECHANICAL PLANS

NO.	DATE	DESCRIPTION

DATE: 03.11.2022
DRAWN: BM, LA, HC, NT
CHECKED: CC

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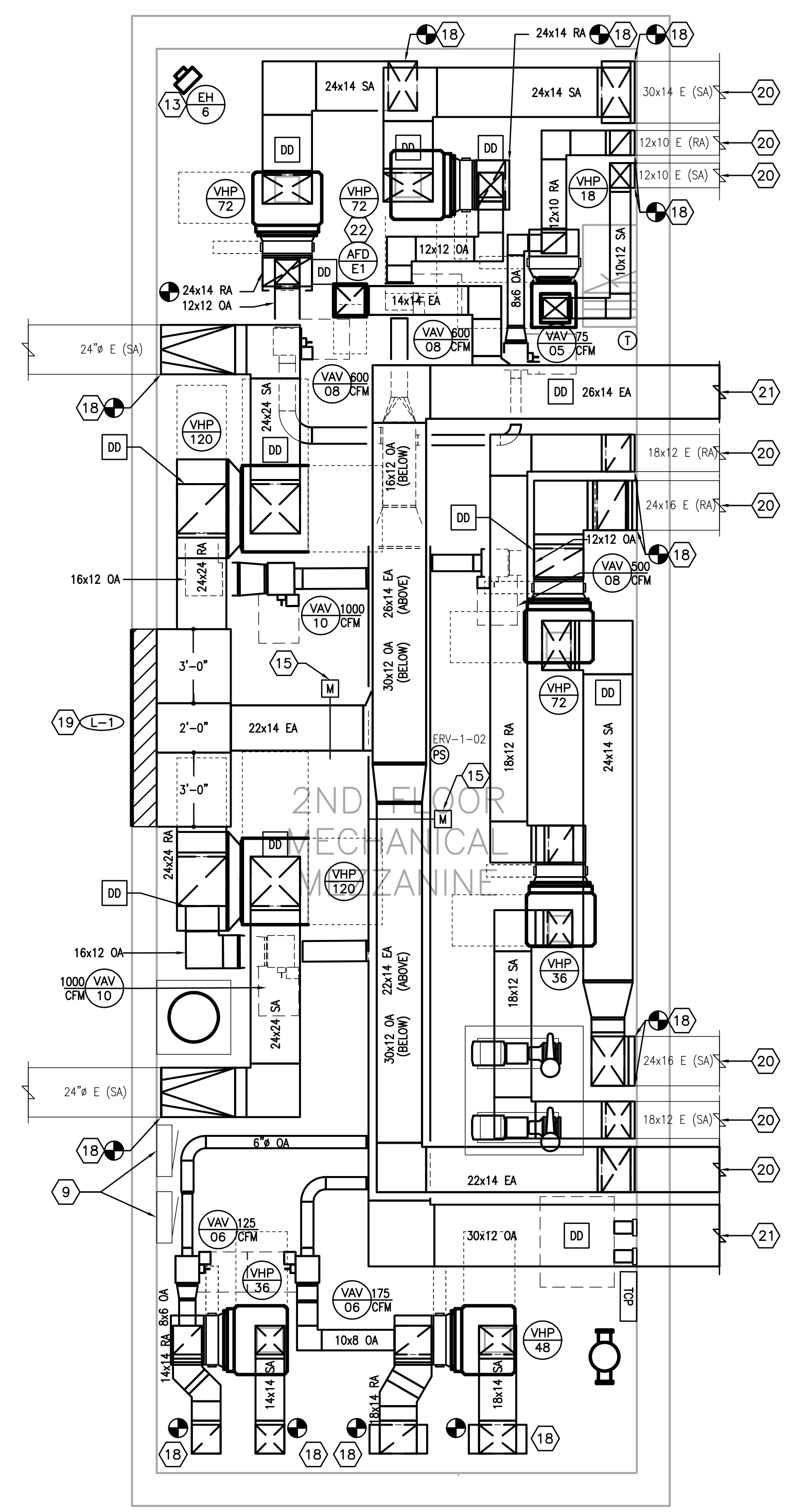
M2-5.1



**ENLARGED MECHANICAL MEZZANINE
HYDRONICS NEW WORK**

SCALE: 1/4" = 1'-0"

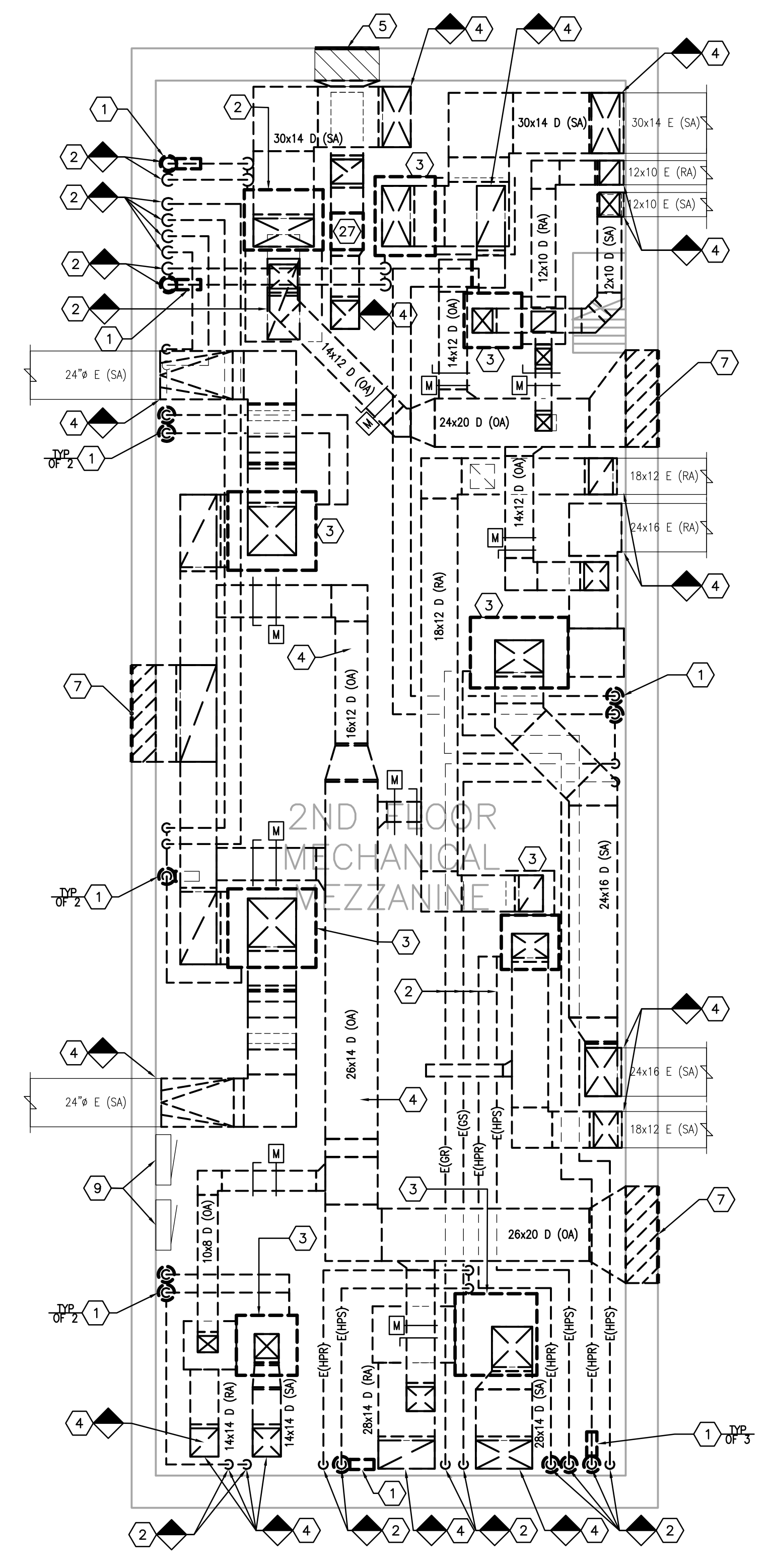
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M2-5.1



**ENLARGED MECHANICAL MEZZANINE
AIR DISTRIBUTION NEW WORK**

SCALE: 1/4" = 1'-0"

2
M2-5.1

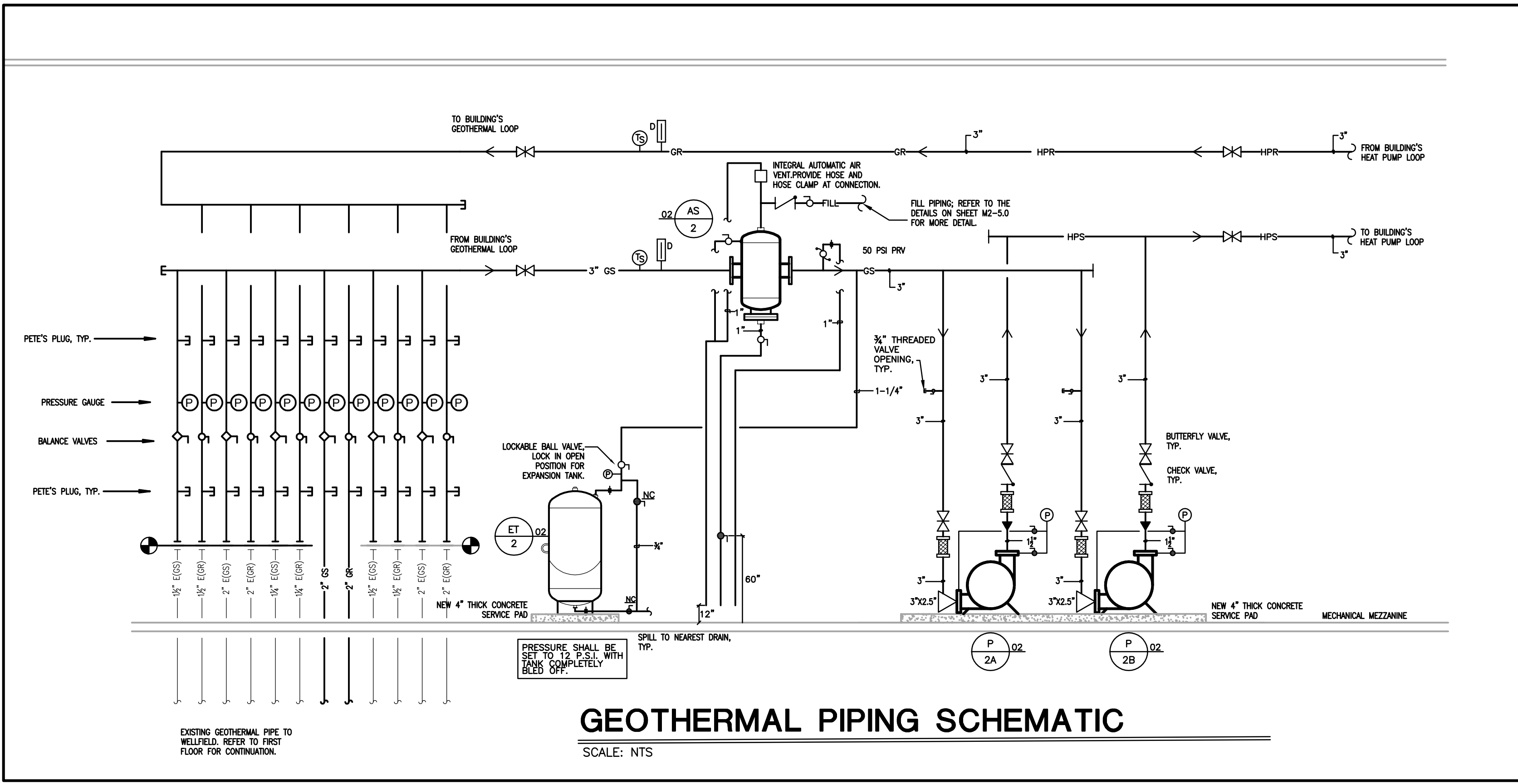


**ENLARGED MECHANICAL MEZZANINE
MECHANICAL DEMOLITION**

SCALE: 1/4" = 1'-0"

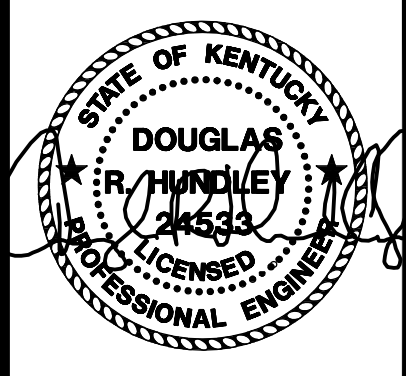
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M2-5.1

- ENLARGED MECHANICAL ROOMS - GENERAL NOTES:
- PATCH ALL WALL/ROOF/FLOOR PENETRATIONS WHERE EXISTING MEP EQUIPMENT/PIPING/DUCTWORK/ETC IS REMOVED.
 - REMOVE ALL CONCRETE PADS/SUPPORTS ASSOCIATED WITH MEP EQUIPMENT REMOVAL COMPLETELY; REMOVE ALL ABANDONED PADS/SUPPORTS COMPLETELY; PATCH AND SMOOTH FLOOR AS REQUIRED.
- ENLARGED MECHANICAL ROOMS:
- EXISTING PUMPS TO BE COMPLETELY REMOVED INCLUDING ALL EXISTING MECHANICAL, ELECTRICAL AND CONTROLS CONNECTIONS.
 - EXISTING PIPING AND ALL ASSOCIATED VALVES, HANGERS, AND SUPPORTS TO BE COMPLETELY REMOVED TO POINT INDICATED ON DRAWING. PATCH WALLS/SLAB/CEILING AT PIPING OPENINGS (TYPICAL). REFER TO NEW WORK FOR ADDITIONAL INFORMATION.
 - EXISTING HEAT PUMP TO BE REMOVED COMPLETELY, INCLUDING ALL ASSOCIATED DUCTWORK, PIPING, CONDENSATE DRAIN AND PUMP (IF APPLICABLE), ELECTRICAL AND CONTROLS CONNECTIONS. PATCH WALL/FLOOR AS REQUIRED FOR COMPLETE EQUIPMENT REMOVAL.
 - EXISTING SUPPLY/RETURN/EXHAUST/OUTDOOR AIR DUCTWORK, GRILLES, AND RISER INDICATED TO BE REMOVED COMPLETELY TO POINT INDICATED ON DRAWING. REMOVE ALL ASSOCIATED HANGERS/SUPPORTS/ACCESSORIES. PATCH WALLS/SLAB/CEILING AT DUCT OPENINGS (TYPICAL). REFER TO NEW WORK FOR ADDITIONAL INFORMATION.
 - EXISTING LOUVER TO REMAIN. BLANK OFF THE INSIDE OF THE EXISTING LOUVER WITH SHEET METAL AND INSULATE WITH 2" RIGID INSULATION. COORDINATE LOUVER INFILL AND FINISH FINISHES WITH GENERAL CONTRACTOR.
 - REMOVE EXISTING ELECTRIC HEATER INCLUDING ALL ELECTRICAL AND CONTROLS CONNECTIONS.
 - EXISTING LOUVER TO BE REMOVED COMPLETELY. REFER TO NEW WORK FOR ADDITIONAL INFORMATION.
 - REMOVE EXISTING MOTORIZED DAMPER IN OUTSIDE DUCTWORK AND REFER TO NEW WORK FOR ADDITIONAL INFORMATION.
 - ELECTRICAL PANEL OR EQUIPMENT. DO NOT ROUTE DUCTWORK OR PIPING ABOVE THE PANELS.
 - PROVIDE 4" THICK CONCRETE PAD UNDER MECHANICAL EQUIPMENT. PAD SHALL BE 6" LARGER THAN THE MECHANICAL EQUIPMENT FOOTPRINT IN ALL DIRECTIONS UNLESS SHOWN LARGER ON THE FLOOR PLAN.
 - HYDRONIC FILL SYSTEM. MOUNT AT 48" A.F.F. REFER TO DETAIL ON SHEET MS.1.
 - PROVIDE A UNI-STRUT STAND FOR THE VFD. COORDINATE INSTALLATION WITH THE ELECTRICAL CONTRACTOR. PROVIDE VERTICAL UNI-STRUT ON WALL MOUNTED VFD'S.
 - MOUNT THE BOTTOM OF THE UNIT HEATER 9'-0" AFF.
 - NEW CONTROL PANEL FOR DDC SYSTEM. COORDINATE DATA AND POWER CONNECTION WITH THE ELECTRICAL CONTRACTOR.
 - MOTORIZED DAMPER. COORDINATE WITH TCC AND REFER TO CONTROL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - INSTALL PRESSURE RELIEF DOOR IN AN ACCESSIBLE LOCATION. ENSURE PRESSURE RELIEF DOOR CAN FULLY OPEN. TYPICAL.
 - INSTALL AND CAP 1/2" GEOTHERMAL PIPES FOR POSSIBLE FUTURE CONNECTION. PROVIDE FULL SIZE ISOLATION VALVES AND REFER TO PIPING SCHEMATIC ON THIS SHEET FOR ADDITIONAL INFORMATION.
 - CONNECT NEW DUCTWORK TO EXISTING DUCTWORK AT WALL / FLOOR PENETRATION. PROVIDE TRANSITION AS REQUIRED.
 - INSTALL (3) PLENUMS THE FULL SIZE OF LOUVER AND WIDTH AS SPECIFIED. CONNECT DUCTWORK TO PLENUM WITH EXPANDED THROAT TAP. PLENUM DEPTH SHALL BE 36". EXTEND PLENUM AS REQUIRED TO MAKE DUCTWORK CONNECTION. ENLARGE OPENING FOR NEW LOUVER. COORDINATE WITH GC.
 - REFER TO SHEET SERIES M2-3.1X FOR DUCTWORK CONTINUATION.
 - REFER TO SHEET M2-3.2 FOR DUCTWORK CONTINUATION.
 - PROVIDE ACCESS DOOR IN DUCTWORK AS RECOMMENDED BY AFD MANUFACTURER. INSTALL AFD PER MANUFACTURER'S INSTRUCTION.
 - REFER TO PIPING SCHEMATIC ON THIS SHEET FOR ADDITIONAL INFORMATION.
 - CONNECT TO PIPING AT FLOOR PENETRATION. CONTRACTOR TO VERIFY FLOW DIRECTION AND CONNECTION SIZE.
 - SPILL HEAT PUMP CONDENSATE TO EXISTING CONDENSATE PIPE STUBBED THROUGH MECHANICAL ROOM FLOOR. FIELD VERIFY LOCATION AND RELOCATE AS REQUIRED TO ACCOMMODATE NEW HEAT PUMP LAYOUT.
 - CONNECT TO PIPING AT FLOOR PENETRATION. CONTRACTOR TO VERIFY FLOW DIRECTION AND CONNECTION SIZE. PROVIDE SHUT-OFF VALVES AT POINT OF CONNECTION.
 - REMOVE EXISTING EXHAUST FAN INCLUDING ALL ELECTRICAL AND CONTROLS CONNECTIONS (DISCONNECTS/SWITCHES/ETC).



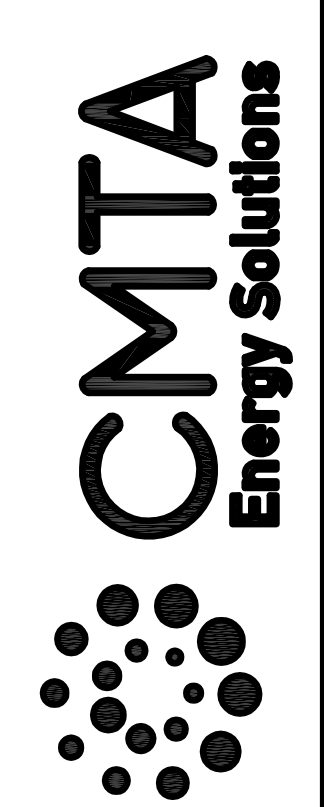
GEOTHERMAL PIPING SCHEMATIC

SCALE: NTS



BID SET

9519 Civic Way, Suite 100
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M.Brangser@CMTA.COM



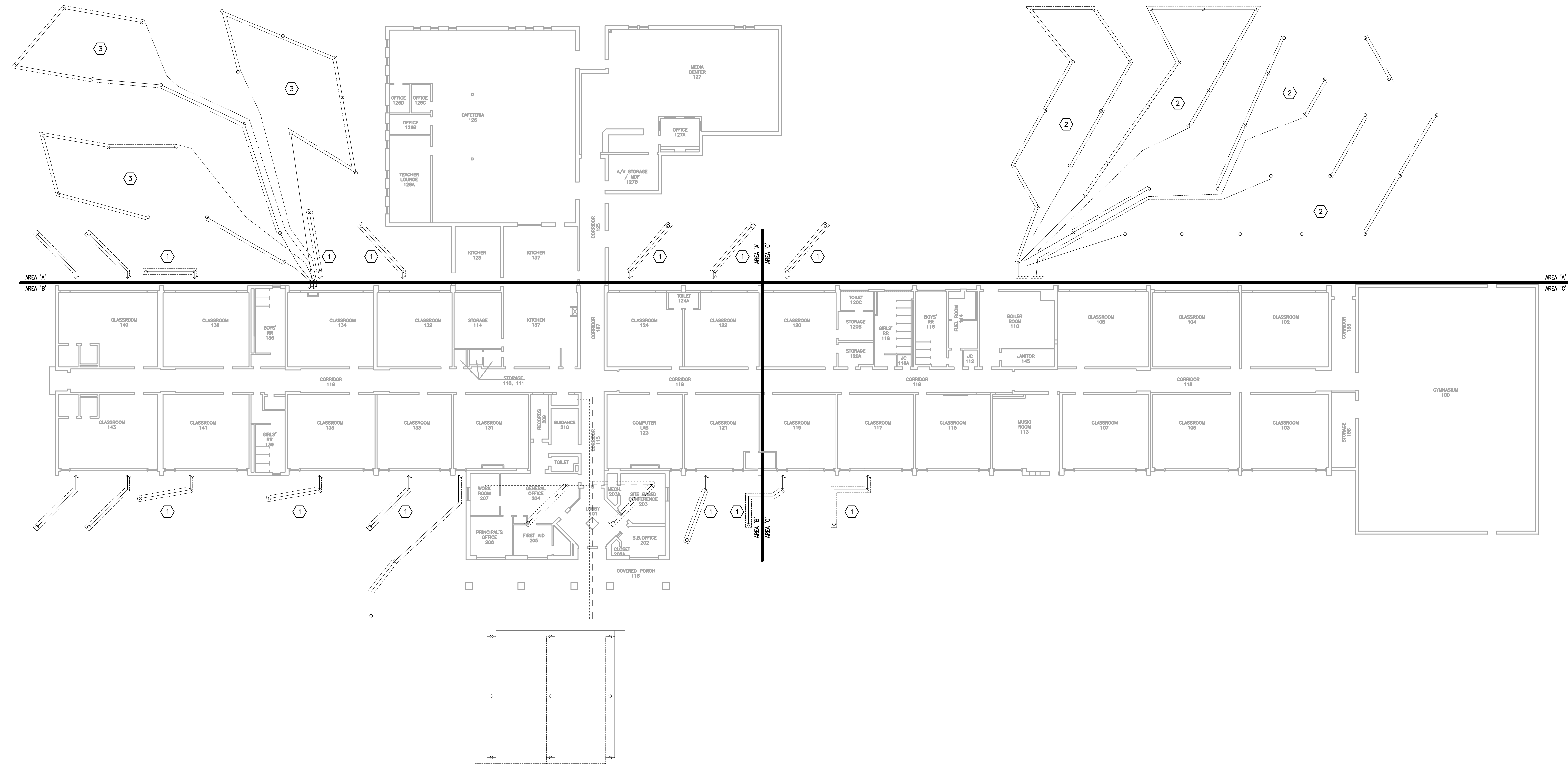
Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
Nancy Elementary School
NANCY, KY

SITE PLAN EXISTING GEOTHERMAL WELLFIELD

WELL LOOP SCHEDULE			
WELLFIELD DESIGNATION	WELL DEPTH	PIPE SIZE	GPM PER WELL
①	225'	1"	4.60
②	231'	1"	4.81
③	242'	1"	4.90



KEY PLAN



SITE PLAN - EXISTING GEOTHERMAL WELLFIELD

SCALE: 1/16" = 1'-0"

1
M3-2.0

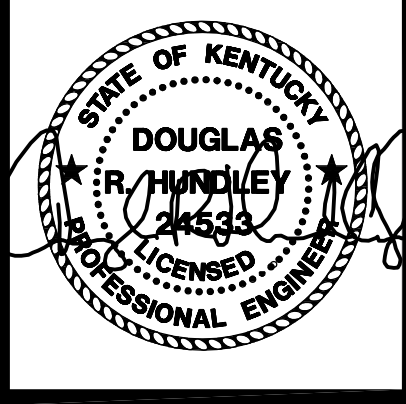
FOR REFERENCE ONLY

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DATE: 03.11.2022
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CHECKED: CG

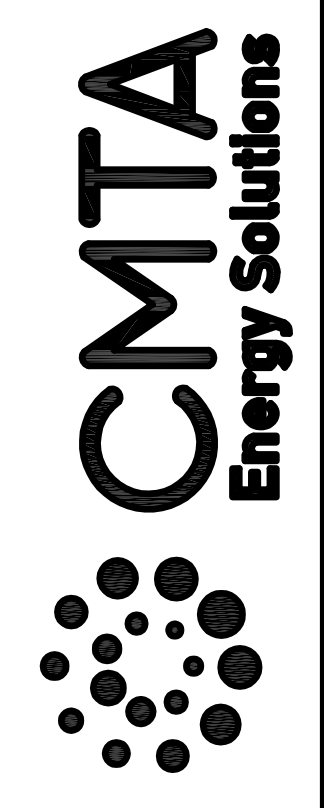
SET NO.

M3-2.0



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Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
Nancy Elementary School
NANCY, KY
MECHANICAL DEMOLITION - AREA A

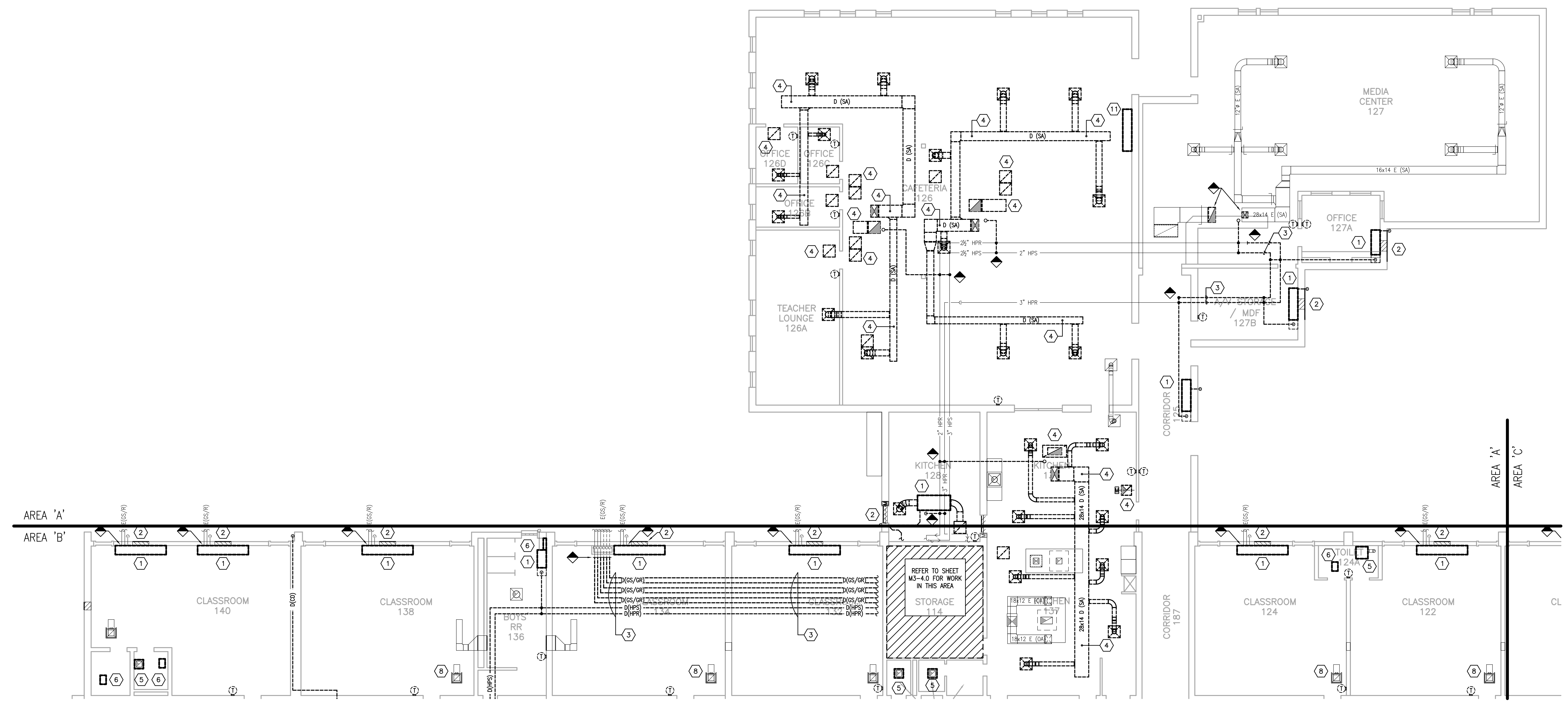
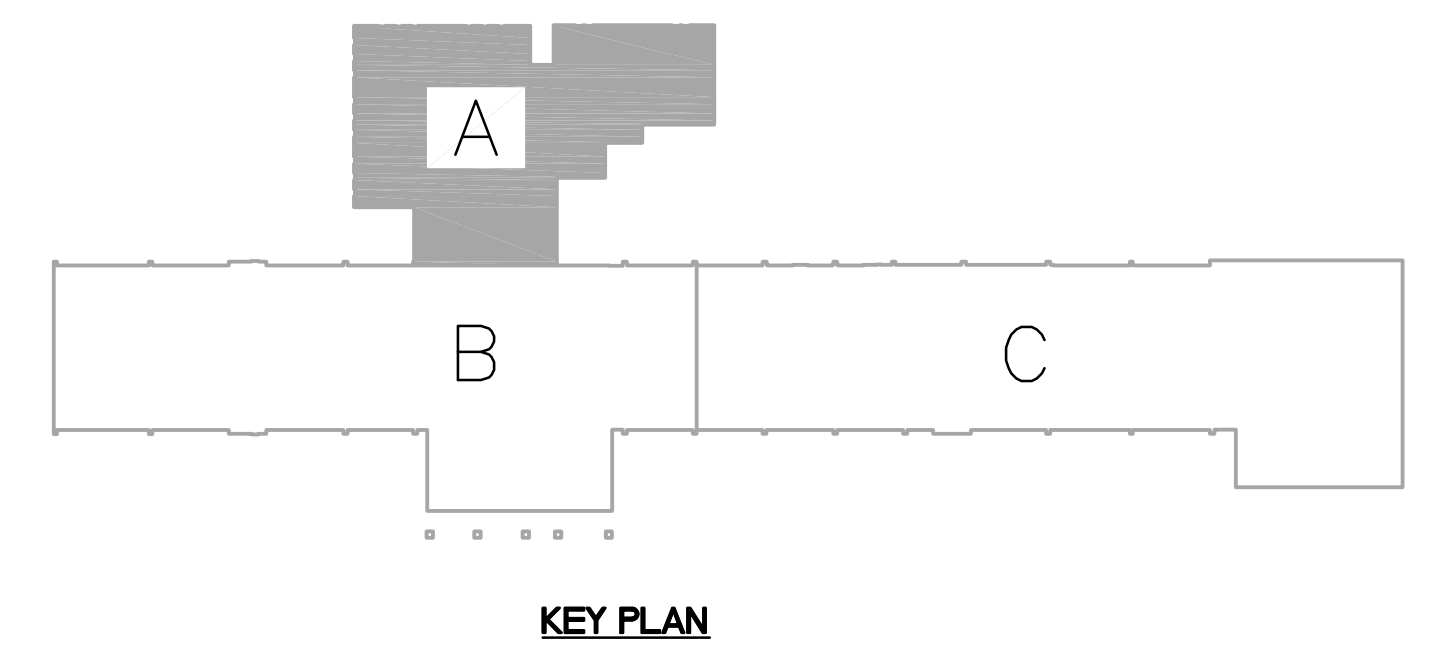
NO.	REVISIONS

DATE: 03.11.2022
DRAWN: BM, LA, HC, NT
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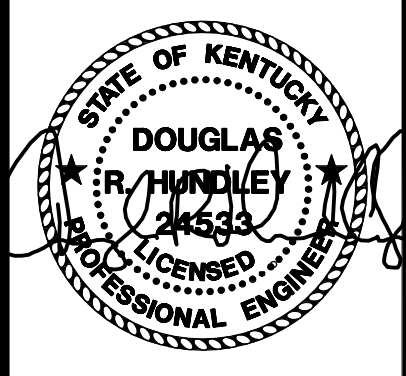
SET NO.

M3-
2.1A

GENERAL DEMOLITION NOTES:	MECHANICAL DEMOLITION NOTES:
<p>A. EXISTING GEOTHERMAL PIPING ROUTED UNDERSLAB TO EXISTING WELLFIELD IS TO REMAIN. PROVIDE INTERIOR SHUT-OFF VALVES AS REQUIRED. REFER TO NEW WORK PLANS AND DETAILS FOR MORE INFORMATION.</p> <p>B. CONTRACTOR RESPONSIBLE FOR VERIFYING PIPE FLOW DIRECTION AND PIPE SIZE FOR CONNECTION.</p> <p>C. WALL AND FLOOR PATCHING/PAINTING: PATCH/INFILL ALL WALL/FLOOR PENETRATIONS WHERE EXISTING MECHANICAL EQUIPMENT/PIPING/DUCTWORK IS REMOVED. COORDINATE ALL PATCH/INFILL WORK WITH THE GENERAL CONTRACTOR.</p> <p>D. EXISTING PIPING DEMOLITION: ALL EXISTING PIPING INDICATED TO BE REMOVED, IS TO BE REMOVED COMPLETELY TO BEYOND FINISHED SURFACES. INACCESSIBLE PIPING BURIED IN EXISTING WALLS REMAINING AND CONCRETE SLABS MAY BE ABANDONED IN PLACE.</p> <p>E. EXISTING THERMOSTAT/TEMPERATURE SENSOR/CONTROLS DEVICES: PROVIDE A STAINLESS STEEL COVER PLATE AT EXISTING OPENING IF LOCATION IS NOT BEING REUSED. COORDINATE ALL CONTROLS WORK WITH TCC.</p> <p>F. ALL GRILLES THAT ARE TO REMAIN SHALL BE CLEANED.</p> <p>G. ASBESTOS ABATEMENT: REFER TO GENERAL CONTRACTOR CONCERNING ALL ASBESTOS ABATEMENT ON THE PROJECT.</p> <p>H. THE OWNER WILL SALVAGE CERTAIN REMOVED EQUIPMENT. COORDINATE WITH THE GENERAL CONTRACTOR.</p>	<p>1. EXISTING HEAT PUMP TO BE REMOVED COMPLETELY, INCLUDING ALL ASSOCIATED DUCTWORK, PIPING, CONDENSATE DRAIN AND PUMP (IF APPLICABLE). ELECTRICAL AND CONTROLS CONNECTIONS: PATCH WALL/FLOOR AS REQUIRED FOR COMPLETE EQUIPMENT REMOVAL. COORDINATE WALL AND FLOOR PATCHING WITH GENERAL CONTRACTOR.</p> <p>2. EXISTING LOUVER TO REMAIN. BLANK OFF THE INSIDE OF THE EXISTING LOUVER WITH SHEET METAL AND INSULATE WITH 2" RIGID INSULATION. COORDINATE LOUVER INFILL AND FINAL FINISHES WITH GENERAL CONTRACTOR.</p> <p>3. REMOVE AND DISPOSE OF EXISTING HYDRONIC AND CONDENSATE PIPING/RISER AND ALL ASSOCIATED HANGERS AND SUPPORTS. PATCH WALLS/SLAB/CEILING AT PIPING OPENINGS (TYPICAL).</p> <p>4. EXISTING SUPPLY/RETURN/EXHAUST/OUTDOOR AIR DUCTWORK, GRILLES, AND RISER INDICATED TO BE REMOVED COMPLETELY. REMOVE ALL ASSOCIATED HANGERS/SUPPORTS/ACCESSORIES. PATCH WALLS/SLAB/CEILING AT DUCT OPENINGS (TYPICAL).</p> <p>5. REMOVE EXISTING CEILING MOUNTED EXHAUST FAN INCLUDING ALL ELECTRICAL AND CONTROLS CONNECTIONS (DISCONNECTS/SWITCHES/ETC). EXISTING EXHAUST RISER TO REMAIN. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION.</p> <p>6. REMOVE EXISTING ELECTRIC HEATER INCLUDING ALL ELECTRICAL AND CONTROLS CONNECTIONS.</p> <p>7. REMOVE EXISTING ABANDONED CABINET HEATER INCLUDING ALL ASSOCIATED PIPING, ELECTRICAL AND CONTROLS CONNECTIONS.</p> <p>8. EXISTING GRILLE, TOP AND BOOT TO BE TAKEN DOWN AND RELOCATED. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION.</p> <p>9. EXISTING GRILLE TO BE REMOVED AND BOOT BLANKED WITH SHEET METAL. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION.</p> <p>10. REMOVE EXISTING PIPING SHROUD/CABINET COMPLETE. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION.</p> <p>11. REMOVE EXISTING ELECTRIC HEATER INCLUDING ALL ELECTRICAL AND CONTROLS CONNECTIONS. PATCH WALL/FLOOR AS REQUIRED FOR COMPLETE EQUIPMENT REMOVAL. COORDINATE WALL AND FLOOR PATCHING WITH GENERAL CONTRACTOR.</p>

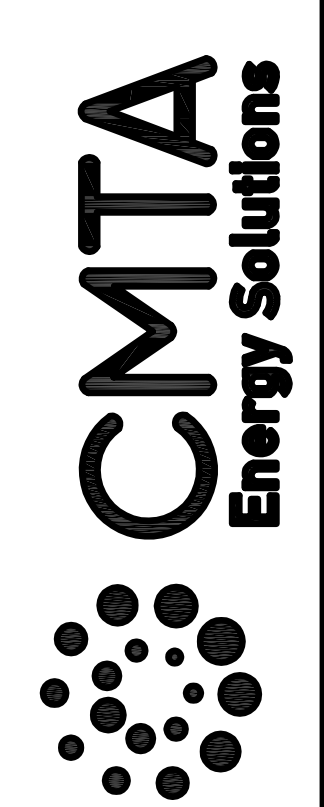


PARTIAL FIRST FLOOR PLAN (AREA A) - MECHANICAL DEMOLITION
 SCALE: 1/8" = 1'-0"
 1
 M3-2.1A



BID SET

9519 Civic Way, Suite 100
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Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
Nancy Elementary School
NANCY, KY
MECHANICAL DEMOLITION - AREA B

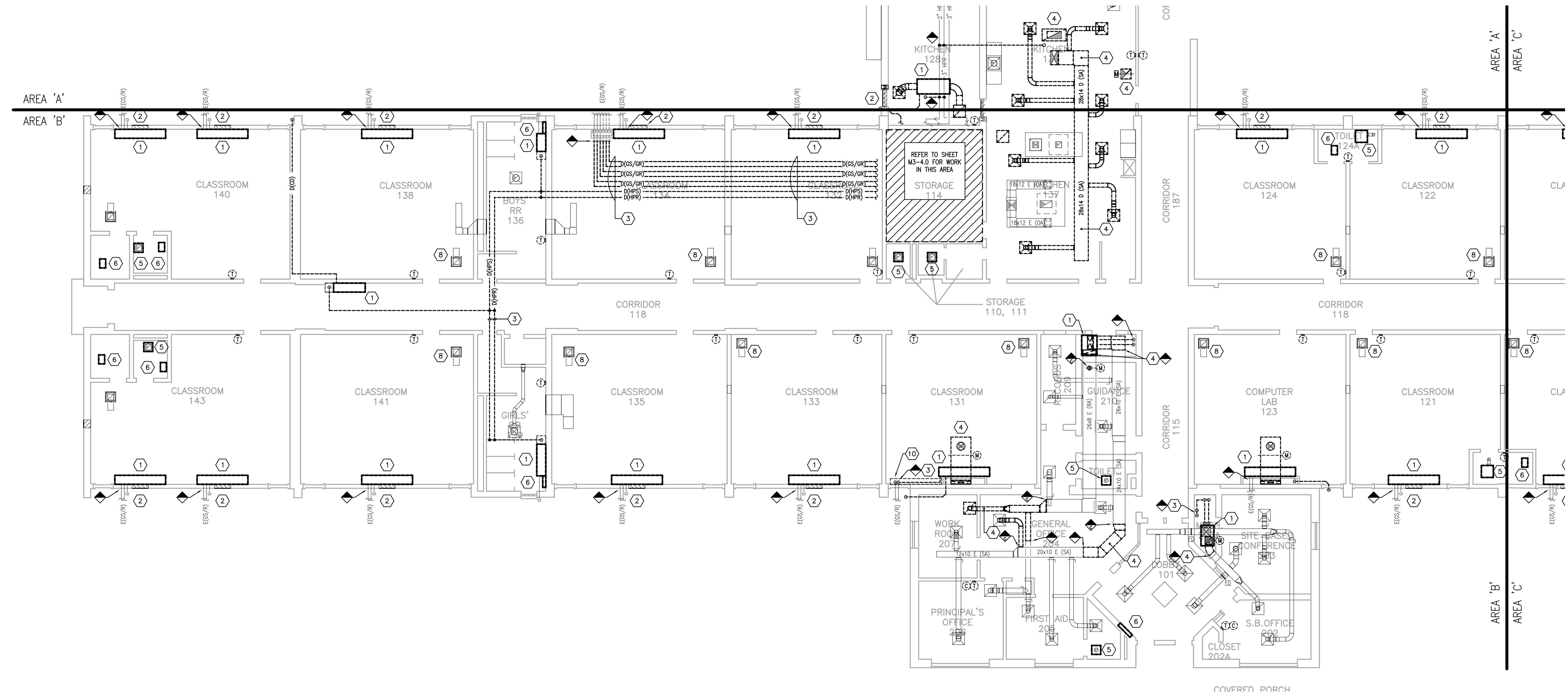
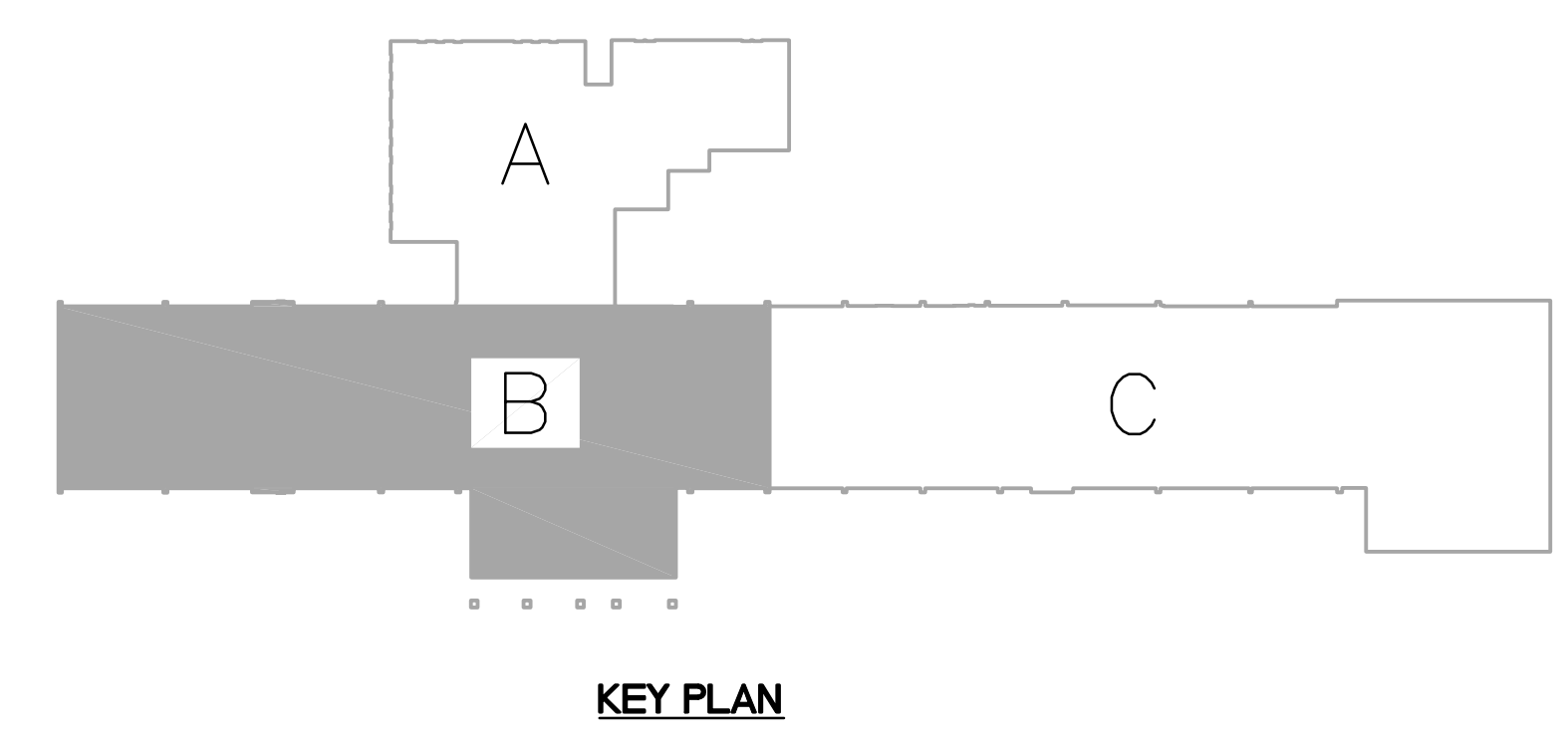
REVISIONS

DATE: 03.11.2022
DRAWN: EM, LA, HC, NT
CHECKED: CC

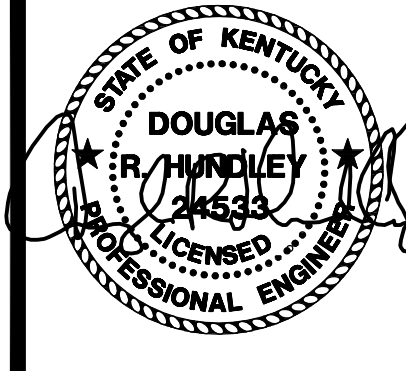
SET NO.

M3-
2.1B

- | GENERAL DEMOLITION NOTES: | MECHANICAL DEMOLITION NOTES: |
|--|--|
| <p>A. EXISTING GEOTHERMAL PIPING ROUTED UNDERSLAB TO EXISTING WELLFIELD IS TO REMAIN. PROVIDE INTERIOR SHUT-OFF VALVES AS REQUIRED. REFER TO NEW WORK PLANS AND DETAILS FOR MORE INFORMATION.</p> <p>B. CONTRACTOR RESPONSIBLE FOR VERIFYING PIPE FLOW DIRECTION AND PIPE SIZE FOR CONNECTION.</p> <p>C. WALL AND FLOOR PATCHING/PAINTING: PATCH/INFILL ALL WALL/FLOOR PENETRATIONS WHERE EXISTING MECHANICAL EQUIPMENT/PIPING/DUCTWORK IS REMOVED. COORDINATE ALL PATCH/INFILL WORK WITH THE GENERAL CONTRACTOR.</p> <p>D. EXISTING PIPING DEMOLITION: ALL EXISTING PIPING INDICATED TO BE REMOVED, IS TO BE REMOVED COMPLETELY TO BEYOND FINISHED SURFACES. INACCESSIBLE PIPING BURIED IN EXISTING WALLS REMAINING AND CONCRETE SLABS MAY BE ABANDONED IN PLACE.</p> <p>E. EXISTING THERMOSTAT/TEMPERATURE SENSOR/CONTROLS DEVICES: PROVIDE A STAINLESS STEEL COVER PLATE AT EXISTING OPENING IF LOCATION IS NOT BEING REUSED. COORDINATE ALL CONTROLS WORK WITH TCC.</p> <p>F. ALL GRILLES THAT ARE TO REMAIN SHALL BE CLEANED.</p> <p>G. ASBESTOS ABATEMENT: REFER TO GENERAL CONTRACTOR CONCERNING ALL ASBESTOS ABATEMENT ON THE PROJECT.</p> <p>H. THE OWNER WILL SALVAGE CERTAIN REMOVED EQUIPMENT. COORDINATE WITH THE GENERAL CONTRACTOR.</p> | <p>1. EXISTING HEAT PUMP TO BE REMOVED COMPLETELY, INCLUDING ALL ASSOCIATED DUCTWORK, PIPING, CONDENSATE DRAIN AND PUMP (IF APPLICABLE), ELECTRICAL AND CONTROLS CONNECTIONS. PATCH WALL/FLOOR AS REQUIRED FOR COMPLETE EQUIPMENT REMOVAL. COORDINATE WALL AND FLOOR PATCHING WITH GENERAL CONTRACTOR.</p> <p>2. EXISTING LOUVER TO REMAIN. BLANK OFF THE INSIDE OF THE EXISTING LOUVER WITH SHEET METAL AND INSULATE WITH 2" RIGID INSULATION. COORDINATE LOUVER INFILL AND FINAL FINISHES WITH GENERAL CONTRACTOR.</p> <p>3. REMOVE AND DISPOSE OF EXISTING HYDRONIC AND CONDENSATE PIPING/RISER AND ALL ASSOCIATED HANGERS AND SUPPORTS. PATCH WALLS/SLAB/CEILING AT PIPING OPENINGS (TYPICAL).</p> <p>4. EXISTING SUPPLY/RETURN/EXHAUST/OUTDOOR AIR DUCTWORK, GRILLES, AND RISER INDICATED TO BE REMOVED COMPLETELY. REMOVE ALL ASSOCIATED HANGERS/SUPPORTS/ACCESSORIES. PATCH WALLS/SLAB/CEILING AT DUCT OPENINGS (TYPICAL).</p> <p>5. REMOVE EXISTING CEILING MOUNTED EXHAUST FAN INCLUDING ALL ELECTRICAL AND CONTROLS CONNECTIONS (DISCONNECTS/SWITCHES/ETC). EXISTING EXHAUST RISER TO REMAIN. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION.</p> <p>6. REMOVE EXISTING ELECTRIC HEATER INCLUDING ALL ELECTRICAL AND CONTROLS CONNECTIONS.</p> <p>7. REMOVE EXISTING ABANDONED CABINET HEATER INCLUDING ALL ASSOCIATED PIPING, ELECTRICAL AND CONTROLS CONNECTIONS.</p> <p>8. EXISTING GRILLE, TAP AND BOOT TO BE TAKEN DOWN AND RELOCATED. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION.</p> <p>9. EXISTING GRILLE TO BE REMOVED AND BOOT BLANKED WITH SHEET METAL. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION.</p> <p>10. REMOVE EXISTING PIPING SHROUD/CABINET COMPLETE, REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION.</p> <p>11. REMOVE EXISTING ELECTRIC HEATER INCLUDING ALL ELECTRICAL AND CONTROLS CONNECTIONS. PATCH WALL/FLOOR AS REQUIRED FOR COMPLETE EQUIPMENT REMOVAL. COORDINATE WALL AND FLOOR PATCHING WITH GENERAL CONTRACTOR.</p> |

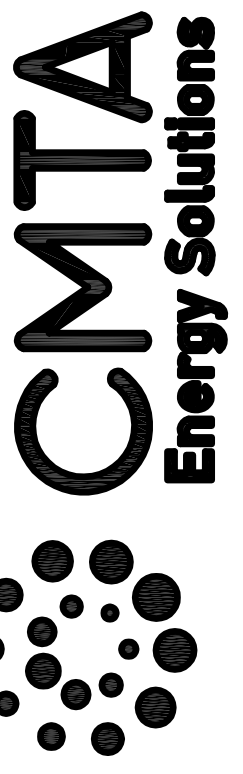


PARTIAL FIRST FLOOR PLAN (AREA B) - MECHANICAL DEMOLITION
 SCALE: 1/8" = 1'-0"
 1
 M3-2.1B



BID SET

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M.Brangser@CMTA.COM



Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
Nancy Elementary School
NANCY, KY
MECHANICAL DEMOLITION - AREA C

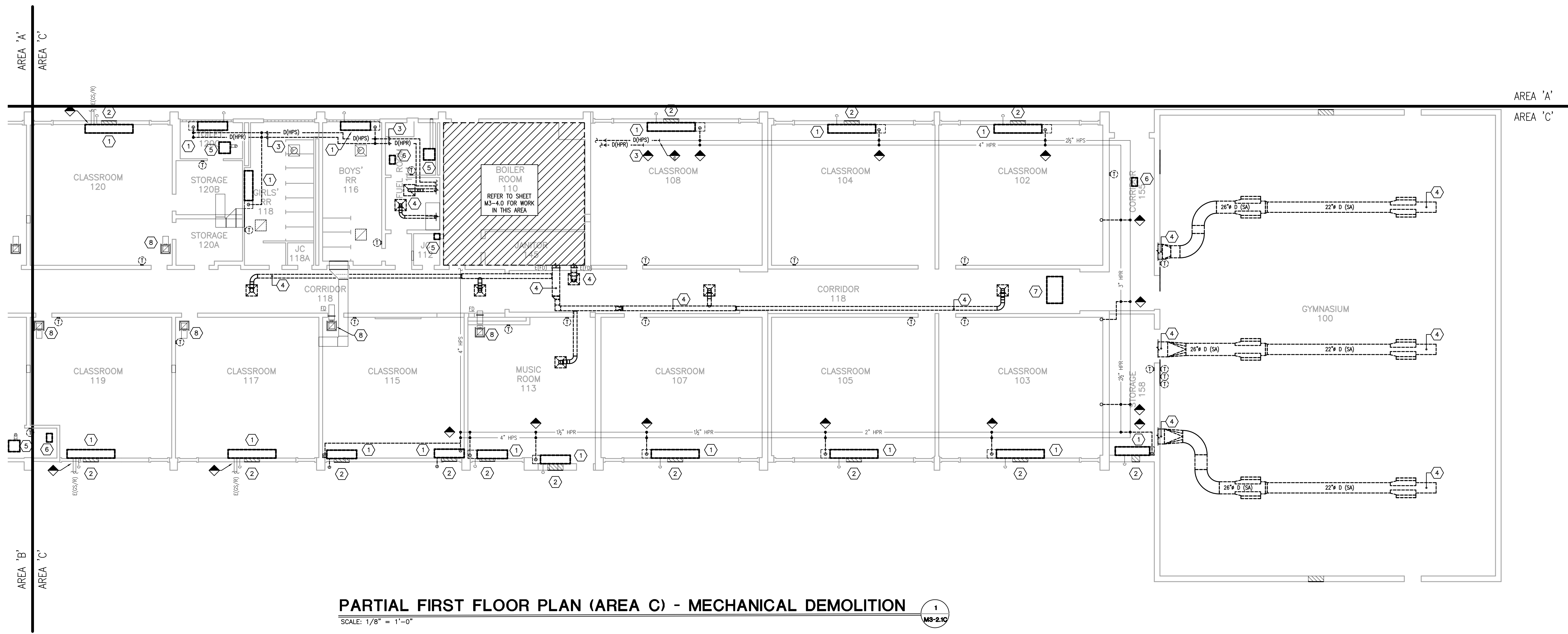
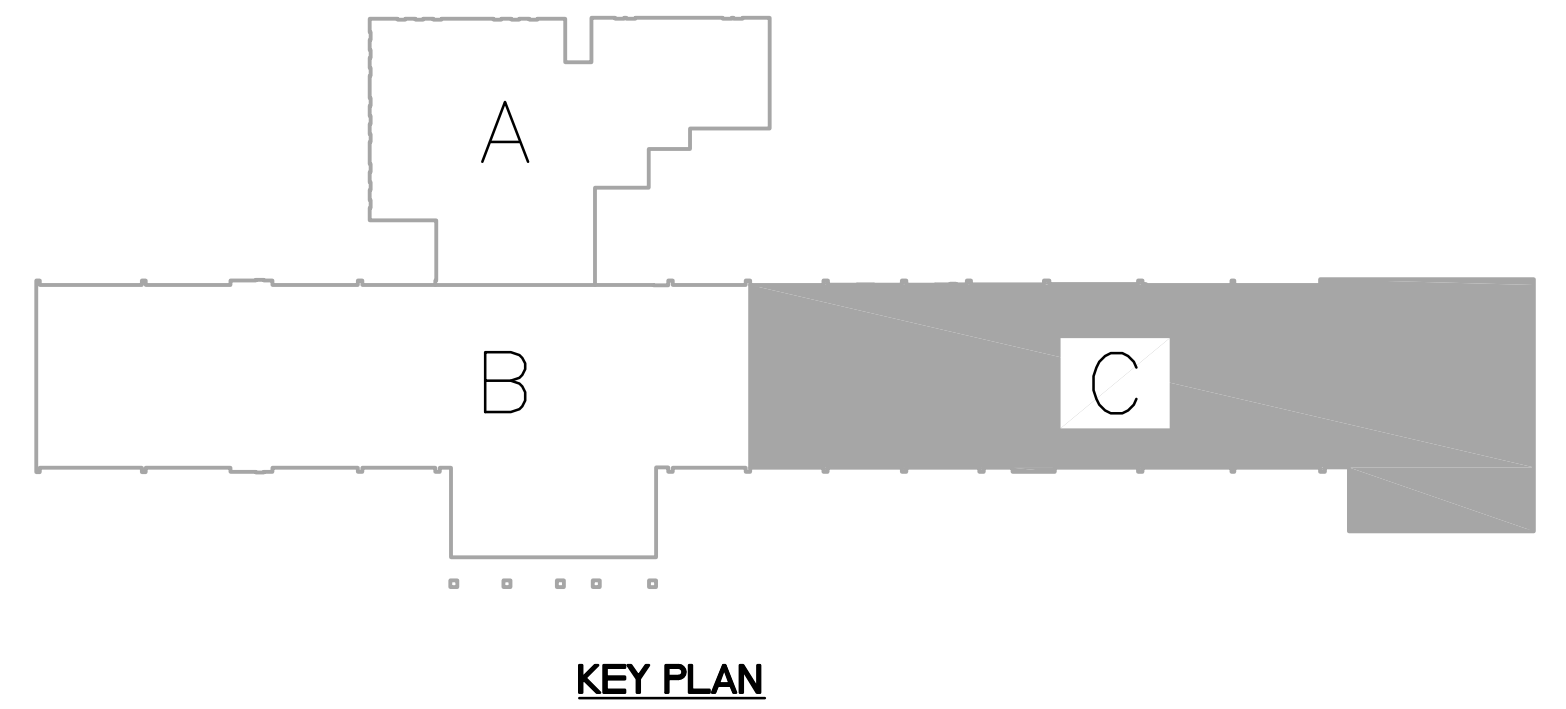
REVISIONS

DATE: 03.11.2022
DRAWN: BM, LA, HC, NT
CHECKED: CC

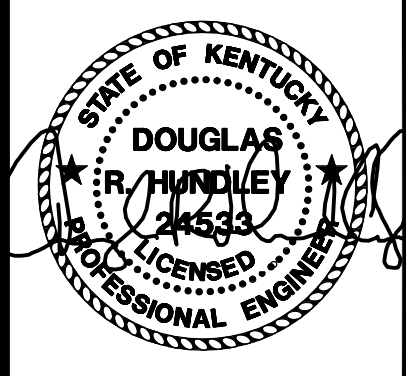
SET NO.

M3-
2.1C

- | GENERAL DEMOLITION NOTES: (X) | MECHANICAL DEMOLITION NOTES: (#) |
|---|---|
| A. EXISTING GEOTHERMAL PIPING ROUTED UNDERSLAB TO EXISTING WELLFIELD IS TO REMAIN. PROVIDE INTERIOR SHUT-OFF VALVES AS REQUIRED. REFER TO NEW WORK PLANS AND DETAILS FOR MORE INFORMATION. | 1. EXISTING HEAT PUMP TO BE REMOVED COMPLETELY, INCLUDING ALL ASSOCIATED DUCTWORK, PIPING, CONDENSATE DRAIN AND PUMP (IF APPLICABLE). ELECTRICAL AND CONTROLS CONNECTIONS. PATCH WALL/FLOOR AS REQUIRED FOR COMPLETE EQUIPMENT REMOVAL. COORDINATE WALL AND FLOOR PATCHING WITH GENERAL CONTRACTOR. |
| B. CONTRACTOR RESPONSIBLE FOR VERIFYING PIPE FLOW DIRECTION AND PIPE SIZE FOR CONNECTION. | 2. EXISTING LOUVER TO REMAIN. BLANK OFF THE INSIDE OF THE EXISTING LOUVER WITH SHEET METAL AND INSULATE WITH 2" RIGID INSULATION. COORDINATE LOUVER INFILL AND FINAL FINISHES WITH GENERAL CONTRACTOR. |
| C. WALL AND FLOOR PATCHING/PAINTING. PATCH/INFILL ALL WALL/FLOOR PENETRATIONS WHERE EXISTING MECHANICAL EQUIPMENT/PIPING/DUCTWORK IS REMOVED. COORDINATE ALL PATCH/INFILL WORK WITH THE GENERAL CONTRACTOR. | 3. REMOVE AND DISPOSE OF EXISTING HYDROVIC AND CONDENSATE PIPING/RISER AND ALL ASSOCIATED HANGERS AND SUPPORTS. PATCH WALLS/SLAB/CEILING AT PIPING OPENINGS (TYPICAL). |
| D. EXISTING PIPING DEMOLITION: ALL EXISTING PIPING INDICATED TO BE REMOVED, IS TO BE REMOVED COMPLETELY TO BEYOND FINISHED SURFACES. INACCESSIBLE PIPING BURIED IN EXISTING WALLS REMAINING AND CONCRETE SLABS MAY BE ABANDONED IN PLACE. | 4. EXISTING SUPPLY/RETURN/EXHAUST/OUTDOOR AIR DUCTWORK, GRILLES, AND RISER INDICATED TO BE REMOVED COMPLETELY. REMOVE ALL ASSOCIATED HANGERS/SUPPORTS/ACCESSORIES. PATCH WALLS/SLAB/CEILING AT DUCT OPENINGS (TYPICAL). |
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| F. ALL GRILLES THAT ARE TO REMAIN SHALL BE CLEANED. | 6. REMOVE EXISTING ELECTRIC HEATER INCLUDING ALL ELECTRICAL AND CONTROLS CONNECTIONS. |
| G. ASBESTOS ABATEMENT: REFER TO GENERAL CONTRACTOR CONCERNING ALL ASBESTOS ABATEMENT ON THE PROJECT. | 7. REMOVE EXISTING ABANDONED CABINET HEATER INCLUDING ALL ASSOCIATED PIPING, ELECTRICAL AND CONTROLS CONNECTIONS. |
| H. THE OWNER WILL SALVAGE CERTAIN REMOVED EQUIPMENT. COORDINATE WITH THE GENERAL CONTRACTOR. | 8. EXISTING GRILLE, TOP AND BOOT TO BE TAKEN DOWN AND RELOCATED. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION. |
| | 9. EXISTING GRILLE TO BE REMOVED AND BOOT BLANKED WITH SHEET METAL. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION. |
| | 10. REMOVE EXISTING PIPING SHROUD/CABINET COMPLETE. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION. |
| | 11. REMOVE EXISTING ELECTRIC HEATER INCLUDING ALL ELECTRICAL AND CONTROLS CONNECTIONS. PATCH WALL/FLOOR AS REQUIRED FOR COMPLETE EQUIPMENT REMOVAL. COORDINATE WALL AND FLOOR PATCHING WITH GENERAL CONTRACTOR. |

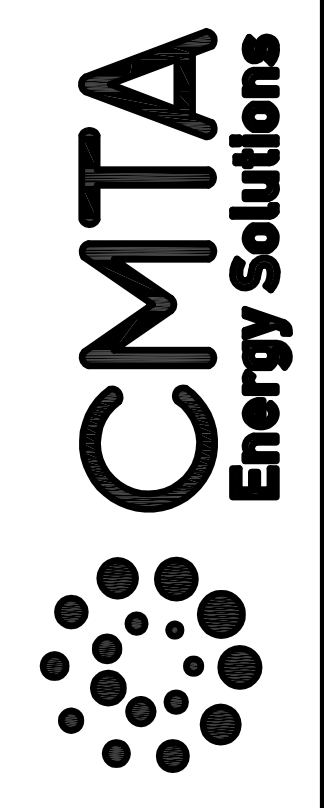


PARTIAL FIRST FLOOR PLAN (AREA C) - MECHANICAL DEMOLITION 1
SCALE: 1/8" = 1'-0" M3-2.1C



BID SET

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M.Brangser@CMTA.COM



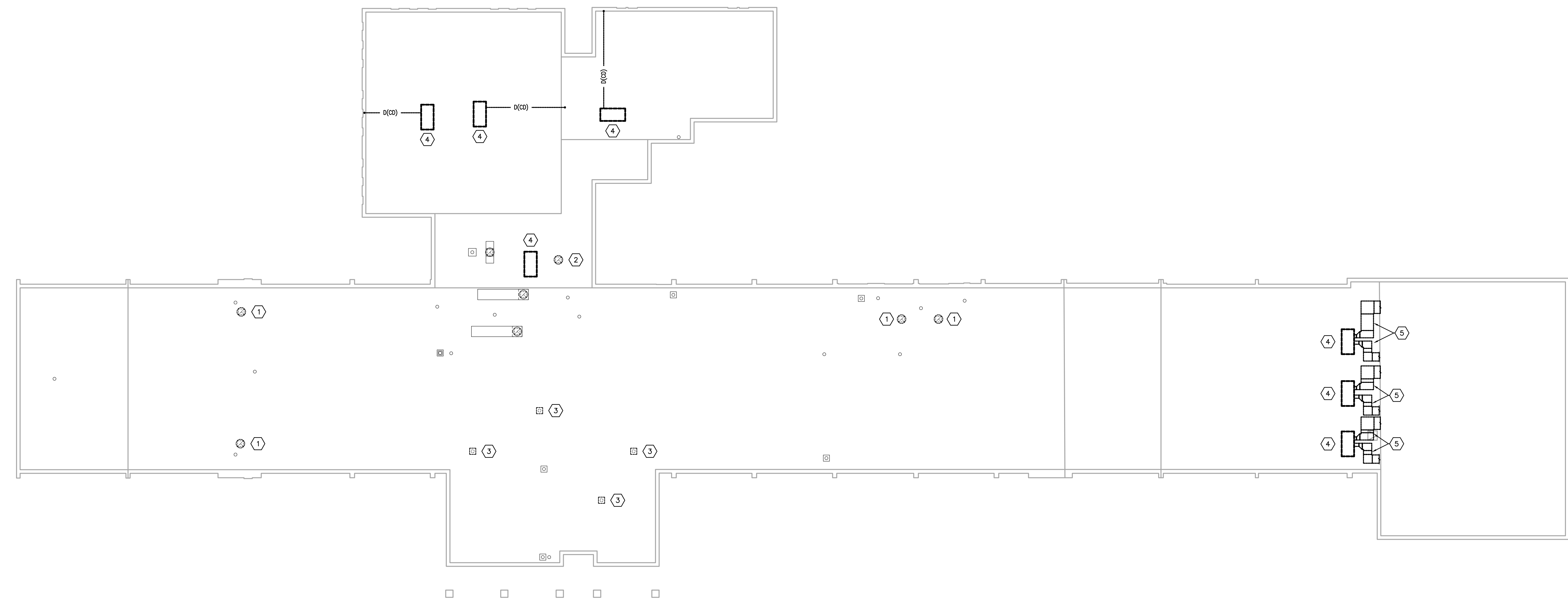
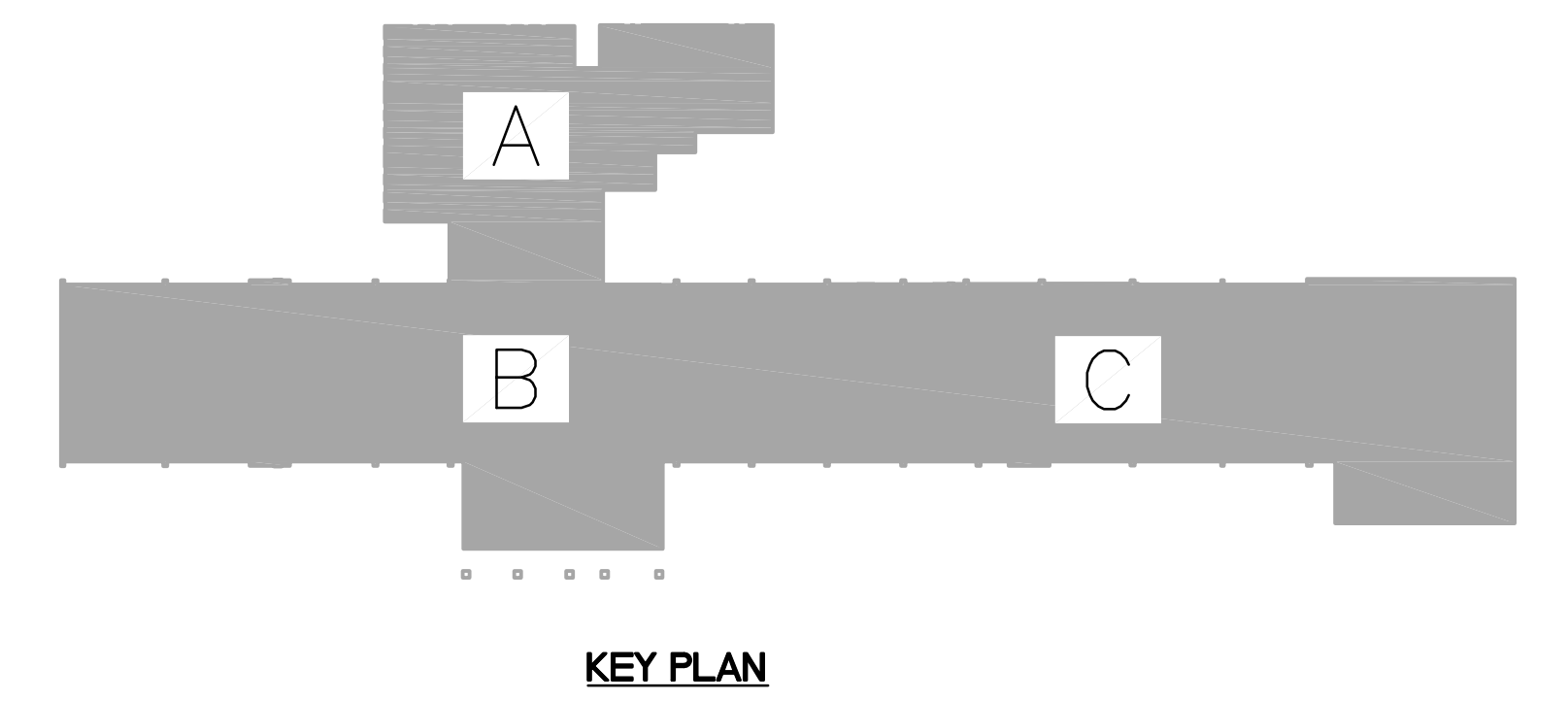
Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
Nancy Elementary School
NANCY, KY
ROOF-MECHANICAL DEMOLITION

REVISIONS
DATE: 03.11.2022
DRAWN: EM, LA, HC, NT
CHECKED: CG

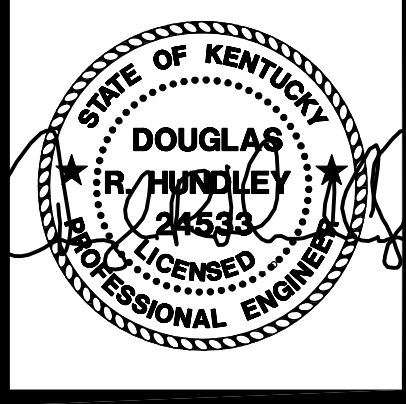
SET NO.

M3-
2.2

- MECHANICAL DEMOLITION NOTES - ROOF: #
1. EXISTING EXHAUST FAN TO BE REMOVED COMPLETELY, INCLUDING ALL MECHANICAL, ELECTRICAL, AND CONTROLS CONNECTIONS (DISCONNECTS/SWITCHES/ETC). EXISTING ROOF CURB AND DUCTWORK RISER TO REMAIN.
 2. EXISTING EXHAUST FAN TO BE REMOVED COMPLETELY, INCLUDING ALL DUCTWORK, MECHANICAL, ELECTRICAL AND CONTROLS CONNECTIONS (DISCONNECTS/SWITCHES/ETC). THE ROOF CURB IS TO BE CAPPED, REFER TO DETAIL ON SHEET M-6.2.
 3. EXISTING RELIEF/EXHAUST/INTAKE AIR VENT TO BE REMOVED COMPLETELY. THE ROOF CURB IS TO BE CAPPED, REFER TO DETAIL ON SHEET M-6.2.
 4. EXISTING ROOFTOP UNIT TO BE REMOVED COMPLETELY INCLUDING ALL ASSOCIATED PIPING, ELECTRICAL AND CONTROLS CONNECTIONS. EXISTING ROOF CURB TO REMAIN.
 5. EXISTING DUCTWORK TO BE REMOVED COMPLETELY, INCLUDING ALL SUPPORTS.

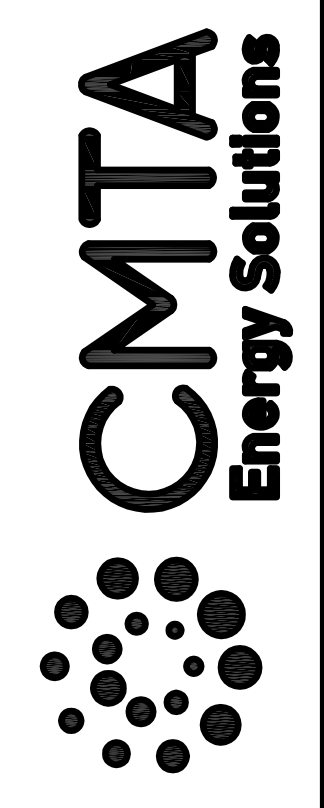


ROOF PLAN - MECHANICAL DEMOLITION 1
SCALE: 1/16" = 1'-0" M3-2.2



BID SET

9519 Civic Way, Suite 100
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T: 502 409-4067, F: 502 919-1521
M.Brangers@CMTA.COM

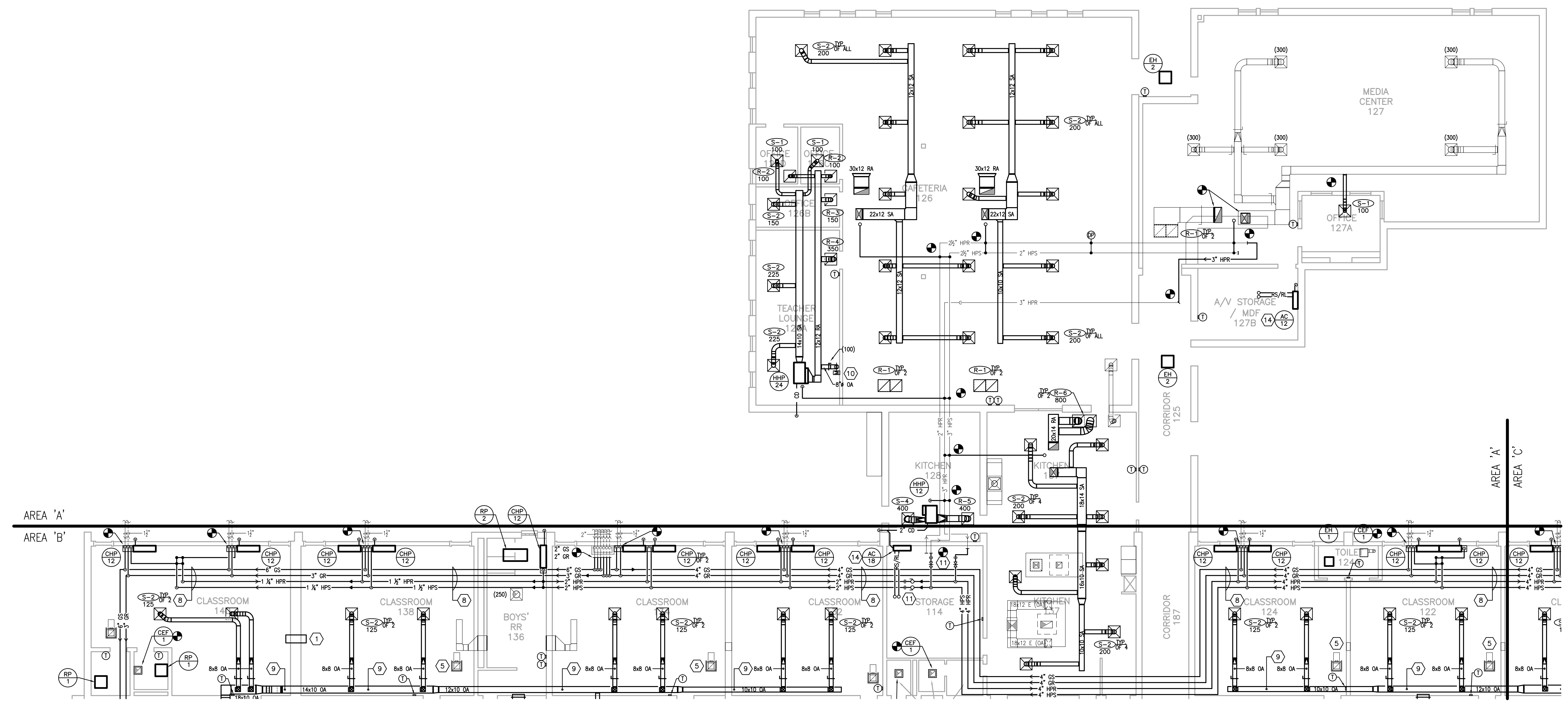
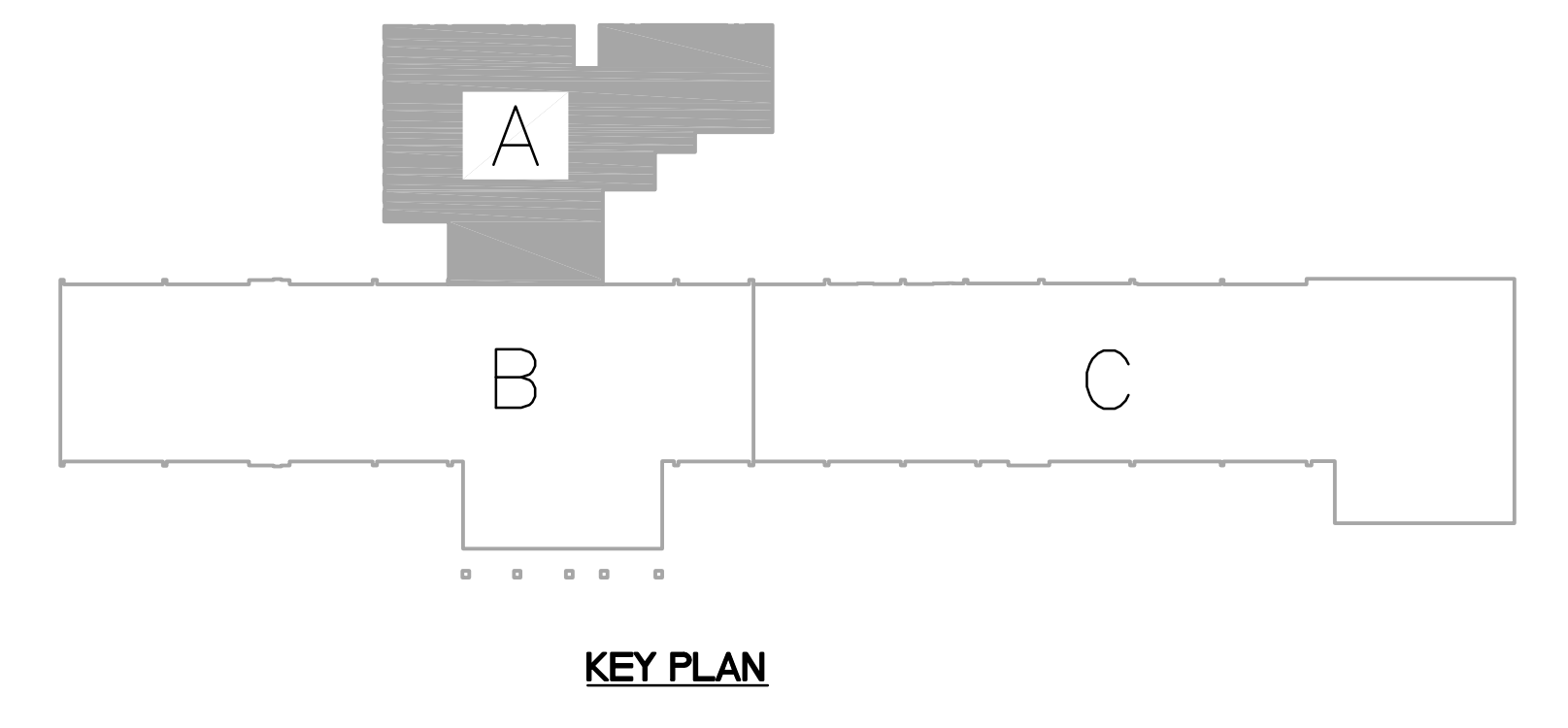


Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
Nancy Elementary School
NANCY, KY
MECHANICAL - AREA A

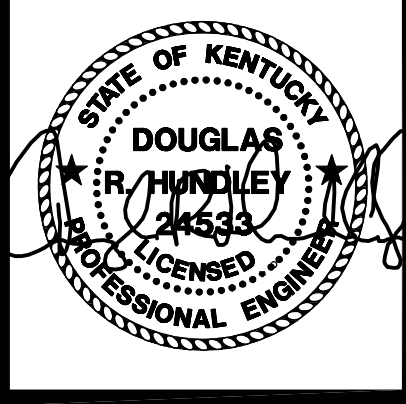
REVISIONS
DATE: 03.11.2022
DRAWN: BM, LA, HC, NT
CHECKED: CG

SET NO.
M3-3.1A

- GENERAL NOTES:**
- EXISTING GEOTHERMAL PIPING ROUTED UNDERSLAB TO EXISTING WELLFIELD IS TO REMAIN. PROVIDE INTERIOR SHUT-OFF VALVES AS REQUIRED. REFER TO DETAILS FOR MORE INFORMATION.
 - CONTRACTOR RESPONSIBLE FOR VERIFYING PIPE FLOW DIRECTION AND PIPE SIZE FOR CONNECTION.
 - HEAT PUMP INSTALLATION - REFER TO DETAILS ON SHEET M-6.1 FOR PIPE CHASE INFORMATION AND VALVE KIT INFORMATION/ LOCATIONS.
 - PROVIDE A HIGH EFFICIENCY TAKE-OFF AND VOLUME DAMPER AT EACH REGISTER, REGISTER, AND DIFFUSER BRANCH RUNOUT, TYPICAL OF ALL UNLESS DAMPER LOCATION IS SHOWN ON FLOOR PLANS. REFER TO THE DETAIL ON SHEET M-6.0 FOR SPECIFIC REQUIREMENTS.
 - R-1 GRILLE; REFER TO THE RETURN AIR CANOPY DETAIL ON SHEET M-6.0.
 - FOR ALL DUCTS OPEN TO PLENUM SPACE, PROVIDE A 1/2" MESH SCREEN ON THE DUCT OPENING.
 - COORDINATE INSTALLATION OF DUCT MOUNTED SMOKE DETECTORS WITH ELECTRICAL CONTRACTOR.
 - FIRE DAMPER; REFER TO THE DETAIL ON SHEET M-6.0.
 - BALANCE ALL DAMPERS (NEW AND EXISTING) TO CFM LISTED ON THE DRAWING - COORDINATE WITH TAB CONTRACTOR.
 - TEMPERATURE CONTROL PANELS (TCP) - COORDINATE LOCATION AND REQUIREMENTS WITH TCC AND ELECTRICAL CONTRACTOR.
 - ALL GRILLES THAT ARE TO REMAIN SHALL BE CLEANED.
- MECHANICAL NOTES:**
- PROVIDE A 16"x8" SHEET METAL SLEEVE IN WALL ABOVE THE CEILING FOR RETURN AIR PATH.
 - PROVIDE 24"x8" SHEET METAL SLEEVE IN WALL ABOVE THE CEILING FOR RETURN AIR PATH.
 - PROVIDE ESCUTCHEON PLATE AT DUCT PENETRATION. REFER TO ROOF PLAN FOR DUCT SIZE.
 - EXPOSED DUCTWORK/PIPING TO HAVE CANVAS JACKET AND PAINTED. ALL ASSOCIATED STRUCTURAL/PIPING BRACING/HANGERS/SUPPORTS TO BE PAINTED TO MATCH ADJACENT SURFACES.
 - REINSTALL RETURN AIR GRILLE, TAP, AND BOOT IN EXISTING CEILING. COORDINATE LOCATION WITH EXISTING CEILING MOUNTED ITEMS.
 - EXPOSED ROUND/OVAL DUCTWORK TO BE DOUBLE WALL DUCT AND PAINTED. ALL STRUCTURAL BRACING FOR DUCTWORK TO BE PAINTED TO MATCH EXISTING SURFACES. NO DUCT SEALANT TO BE USED ON DUCTWORK TO BE PAINTED. SUPPORT WITH AIRCRAFT CABLES AND SELF-TIGHTENING LOCKS.
 - DIFFUSERS SHALL BE INSTALLED AT A 45° ANGLE TOWARDS THE FLOOR. TYPICAL OF ALL DIFFUSERS.
 - PIPING TO BE ROUTED IN EXTERIOR SOFFIT AND AS HIGH AS POSSIBLE. COORDINATE SOFFIT WITH GENERAL CONTRACTOR, REFER TO DETAIL FOR FURTHER INFORMATION.
 - DUCTWORK TO BE ROUTED IN SOFFIT. COORDINATE SOFFIT WITH GENERAL CONTRACTOR, REFER TO DETAIL FOR FURTHER INFORMATION.
 - PROVIDE MOTORIZED DAMPER AT ROOF LEVEL AND INTERLOCK WITH HEAT PUMP FAN AND OCCUPANCY SENSOR.
 - PROVIDE FULL SIZE ISOLATION VALVES, 3/4" VALVED DRAIN LINES IN PIPING WITH THREADED HOSE CONNECTION AND CAP ON DRAIN LINE.
 - EXTEND CHASE WITH METAL SHROUD AS REQUIRED. PAINT METAL SHROUD TO MATCH ADJACENT SURFACES.
 - PROVIDE LOW METAL PIPE CHASE AS REQUIRED TO CONNECT GS/GR PIPING TO EXISTING WELLFIELD. PAINT SHEET METAL TO MATCH ADJACENT SURFACES.
 - COORDINATE MOUNTING HEIGHT OF AC UNIT WITH GENERAL CONTRACTOR. ROUTE REFRIGERANT PIPING UP TO ROOF MOUNTED CONDENSING UNIT THROUGH NEW PIPING PORTAL. REFER TO ROOF PLAN FOR ADDITIONAL INFORMATION. FASTEN CONDENSATE TO WALL WITH TWO HOLE STRAP AND SPILL TO GRADE.
 - MODIFY EXISTING EXHAUST DUCT AS REQUIRED TO INSTALL NEW OUTDOOR AIR DUCT.

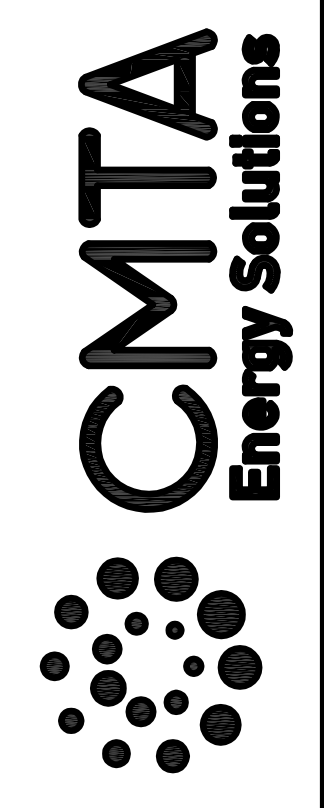


PARTIAL FIRST FLOOR PLAN (AREA A) - MECHANICAL
SCALE: 1/8" = 1'-0"
1
M3-3.1A



BID SET

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Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
Nancy Elementary School
NANCY, KY

MECHANICAL - AREA B

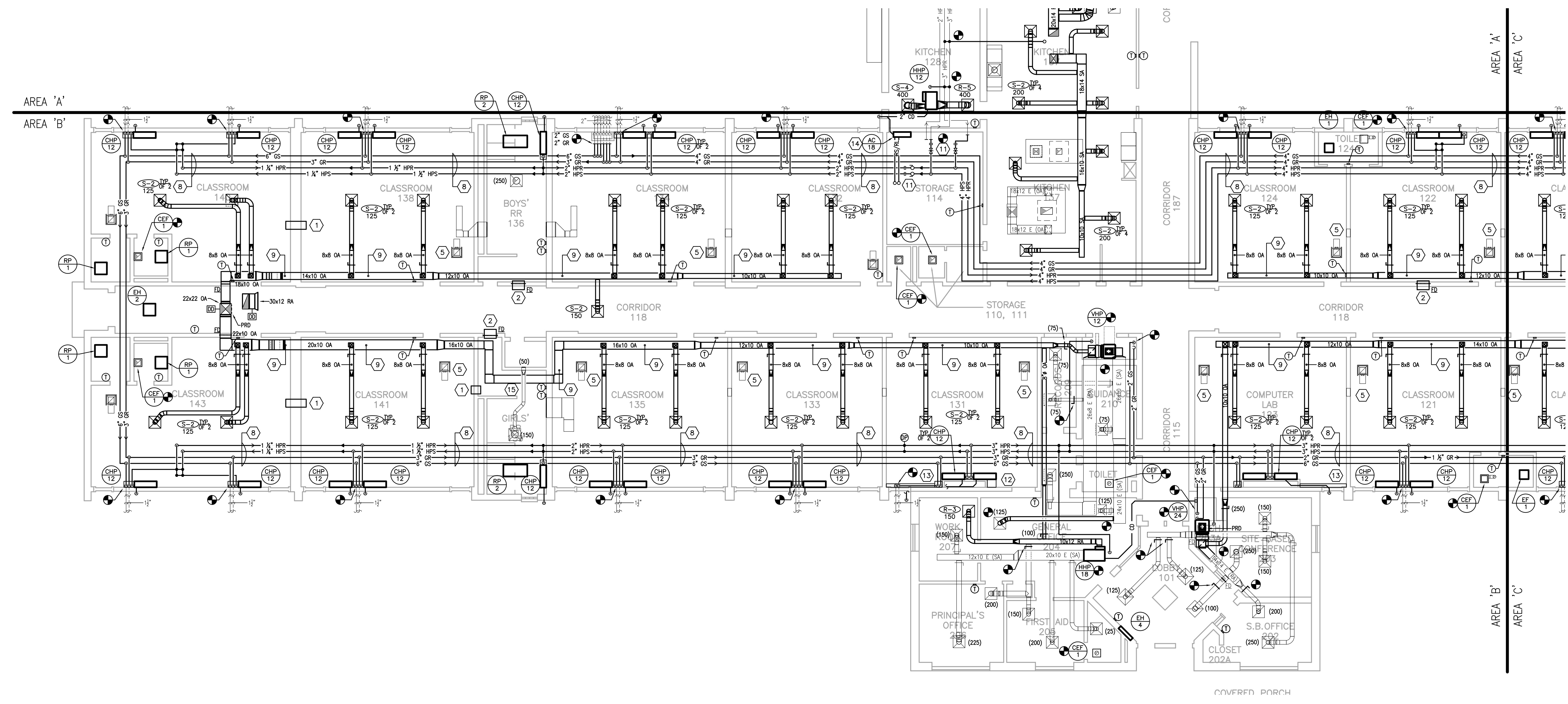
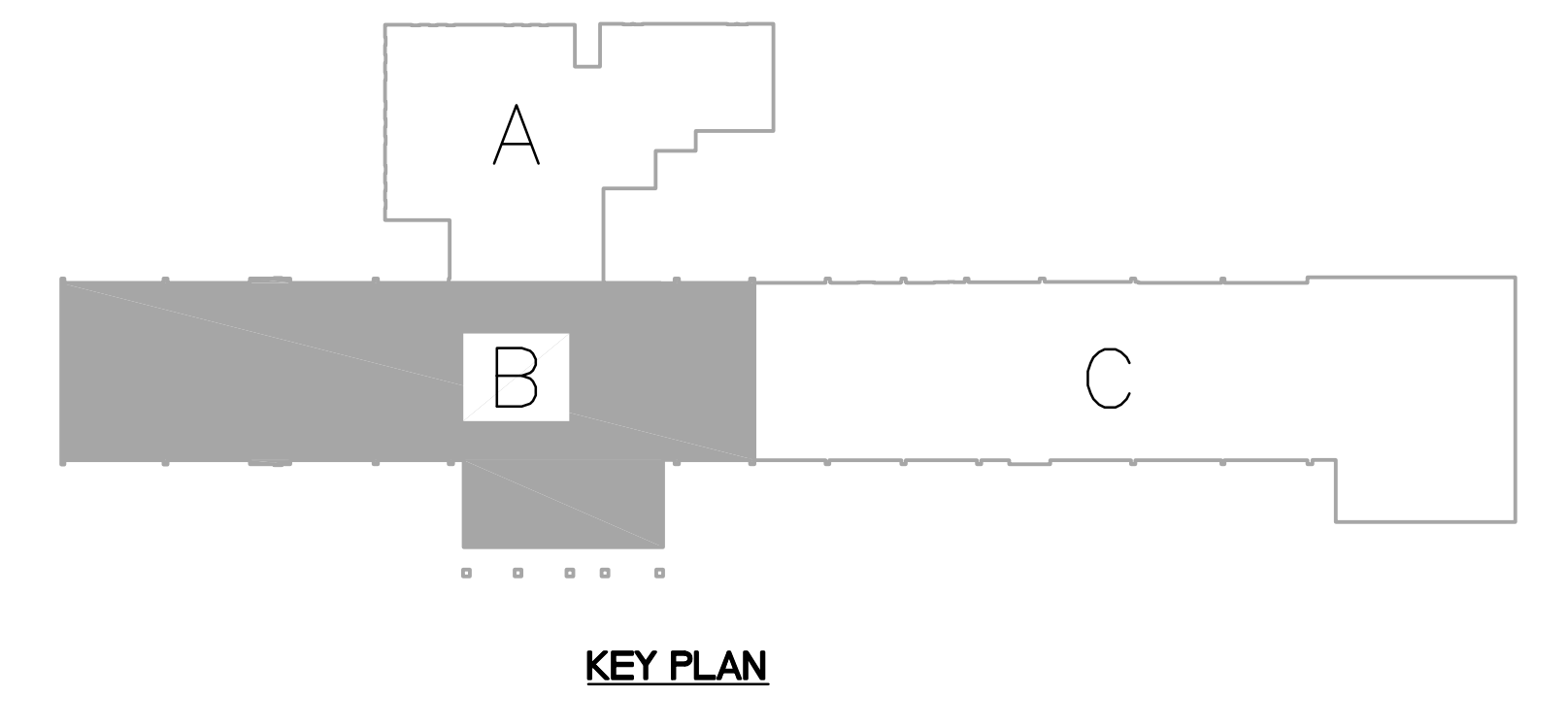
NO.	REVISIONS

DATE: 03.11.2022
DRAWN: BM, LA, HC, NT
CHECKED: CC

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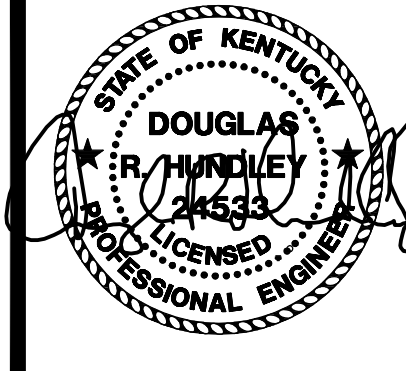
M3-3.1B

- | GENERAL NOTES: | MECHANICAL NOTES: |
|--|---|
| <p>A. EXISTING GEOTHERMAL PIPING ROUTED UNDERSLAB TO EXISTING WELLFIELD IS TO REMAIN. PROVIDE INTERIOR SHUT-OFF VALVES AS REQUIRED. REFER TO DETAILS FOR MORE INFORMATION.</p> <p>B. CONTRACTOR RESPONSIBLE FOR VERIFYING PIPE FLOW DIRECTION AND PIPE SIZE FOR CONNECTION.</p> <p>C. HEAT PUMP INSTALLATION - REFER TO DETAILS ON SHEET M-6.1 FOR PIPE CHASE INFORMATION AND VALVE KIT INFORMATION/ LOCATIONS.</p> <p>D. PROVIDE A HIGH EFFICIENCY TAKE-OFF AND VOLUME DAMPER AT EACH GRILLE, REGISTER, AND DIFFUSER BRANCH POINT, TYPICAL OF ALL UNLESS DAMPER LOCATION IS SHOWN ON FLOOR PLANS. REFER TO THE DETAIL ON SHEET M-6.0 FOR SPECIFIC REQUIREMENTS.</p> <p>E. R-1 GRILLE; REFER TO THE RETURN AIR CANOPY DETAIL ON SHEET M-6.0.</p> <p>F. FOR ALL DUCTS OPEN TO PLENUM SPACE, PROVIDE A 1/2" MESH SCREEN ON THE DUCT OPENING.</p> <p>G. COORDINATE INSTALLATION OF DUCT MOUNTED SMOKE DETECTORS WITH ELECTRICAL CONTRACTOR.</p> <p>H. FIRE DAMPER; REFER TO THE DETAIL ON SHEET M-6.0.</p> <p>I. BALANCE ALL DAMPERS (NEW AND EXISTING) TO CFM LISTED ON THE DRAWING - COORDINATE WITH TAB CONTRACTOR.</p> <p>J. TEMPERATURE CONTROL PANELS (TCP) - COORDINATE LOCATION AND REQUIREMENTS WITH TCC AND ELECTRICAL CONTRACTOR.</p> <p>K. ALL GRILLES THAT ARE TO REMAIN SHALL BE CLEANED.</p> | <p>1. PROVIDE A 16"x8" SHEET METAL SLEEVE IN WALL ABOVE THE CEILING FOR RETURN AIR PATH.</p> <p>2. PROVIDE 24"x8" SHEET METAL SLEEVE IN WALL ABOVE THE CEILING FOR RETURN AIR PATH.</p> <p>3. PROVIDE ESCUTCHEON PLATE AT DUCT PENETRATION. REFER TO ROOF PLAN FOR DUCT SIZE.</p> <p>4. EXPOSED DUCTWORK/PIPING TO HAVE CANVAS JACKET AND PAINTED. ALL ASSOCIATED STRUCTURAL BRACING/HANGERS/SUPPORTS TO BE PAINTED TO MATCH ADJACENT SURFACES.</p> <p>5. REINSTALL RETURN AIR GRILLE, TAB, AND BOOT IN EXISTING CEILING. COORDINATE LOCATION WITH EXISTING CEILING MOUNTED ITEMS.</p> <p>6. EXPOSED ROUND/OVAL DUCTWORK TO BE DOUBLE WALL DUCT AND PAINTED. ALL STRUCTURAL BRACING FOR DUCTWORK TO BE PAINTED TO MATCH EXISTING SURFACES. NO DUCT SEALANT TO BE USED ON DUCTWORK TO BE PAINTED. SUPPORT WITH AIRCRAFT CABLES AND SELF-TIGHTENING LOCKS.</p> <p>7. DIFFUSERS SHALL BE INSTALLED AT A 45° ANGLE TOWARDS THE FLOOR. TYPICAL OF ALL DIFFUSERS.</p> <p>8. PIPING TO BE ROUTED IN EXTERIOR SOFFIT AND AS HIGH AS POSSIBLE. COORDINATE SOFFIT WITH GENERAL CONTRACTOR, REFER TO DETAIL FOR FURTHER INFORMATION.</p> <p>9. DUCTWORK TO BE ROUTED IN SOFFIT. COORDINATE SOFFIT WITH GENERAL CONTRACTOR, REFER TO DETAIL FOR FURTHER INFORMATION.</p> <p>10. PROVIDE MOTORIZED DAMPER AT ROOF LEVEL AND INTERLOCK WITH HEAT PUMP FAN AND OCCUPANCY SENSOR.</p> <p>11. PROVIDE FULL SIZE ISOLATION VALVES, 3/4" VALVED DRAIN LINES IN PIPING WITH THREADED HOSE CONNECTION AND CAP ON DRAIN LINE.</p> <p>12. EXTEND CHASE WITH METAL SHROUD AS REQUIRED. PAINT METAL SHROUD TO MATCH ADJACENT SURFACES.</p> <p>13. PROVIDE LOW METAL PIPE CHASE AS REQUIRED TO CONNECT GS/GR PIPING TO EXISTING WELLFIELD. PAINT SHEET METAL TO MATCH ADJACENT SURFACES.</p> <p>14. COORDINATE MOUNTING HEIGHT OF AC UNIT WITH GENERAL CONTRACTOR. ROUTE REFRIGERANT PIPING UP TO ROOF MOUNTED CONDENSING UNIT THROUGH NEW PIPING PORTAL. REFER TO ROOF PLAN FOR ADDITIONAL INFORMATION. FASTEN CONDENSATE TO WALL WITH TWO HOLE STRIP AND SPILL TO GRADE.</p> <p>15. MODIFY EXISTING EXHAUST DUCT AS REQUIRED TO INSTALL NEW OUTDOOR AIR DUCT.</p> |



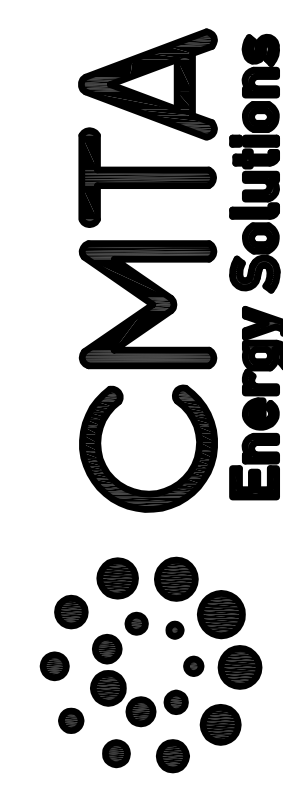
PARTIAL FIRST FLOOR PLAN (AREA B) - MECHANICAL
SCALE: 1/8" = 1'-0"

1
M3-3.1B



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9519 Civic Way, Suite 100
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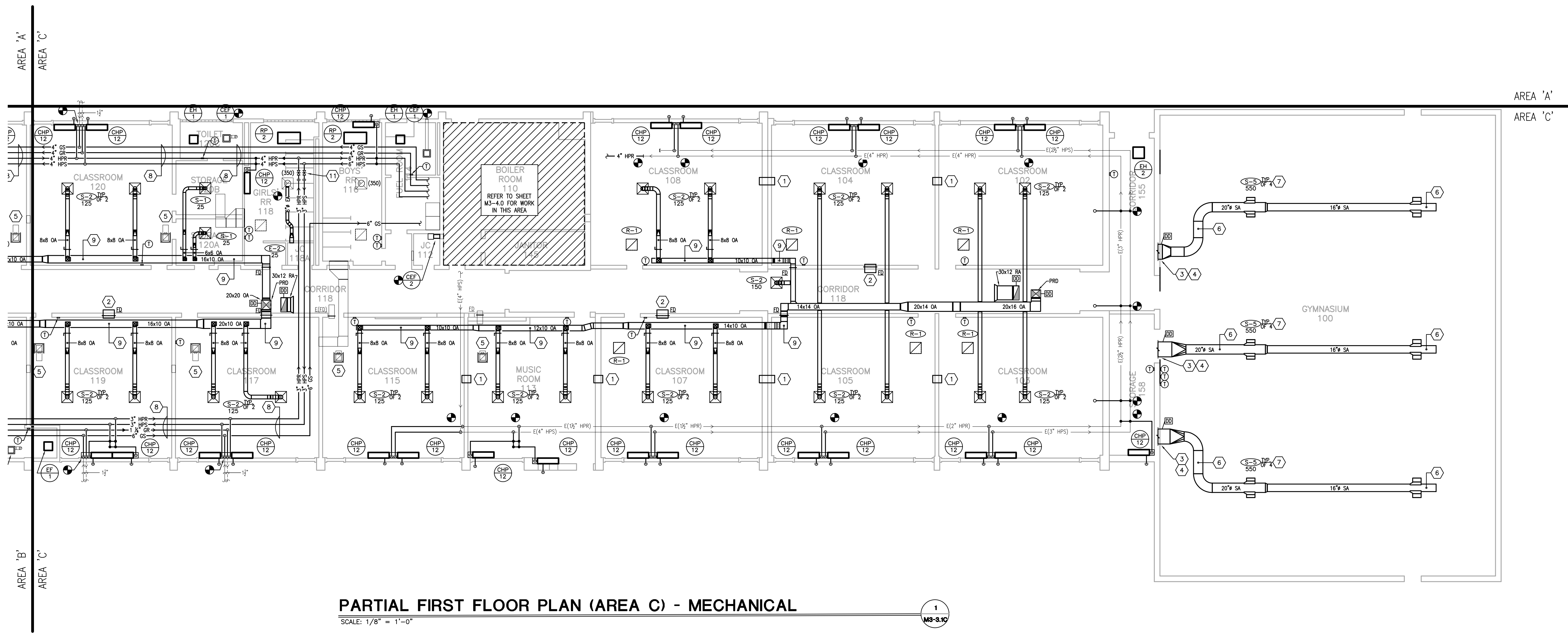
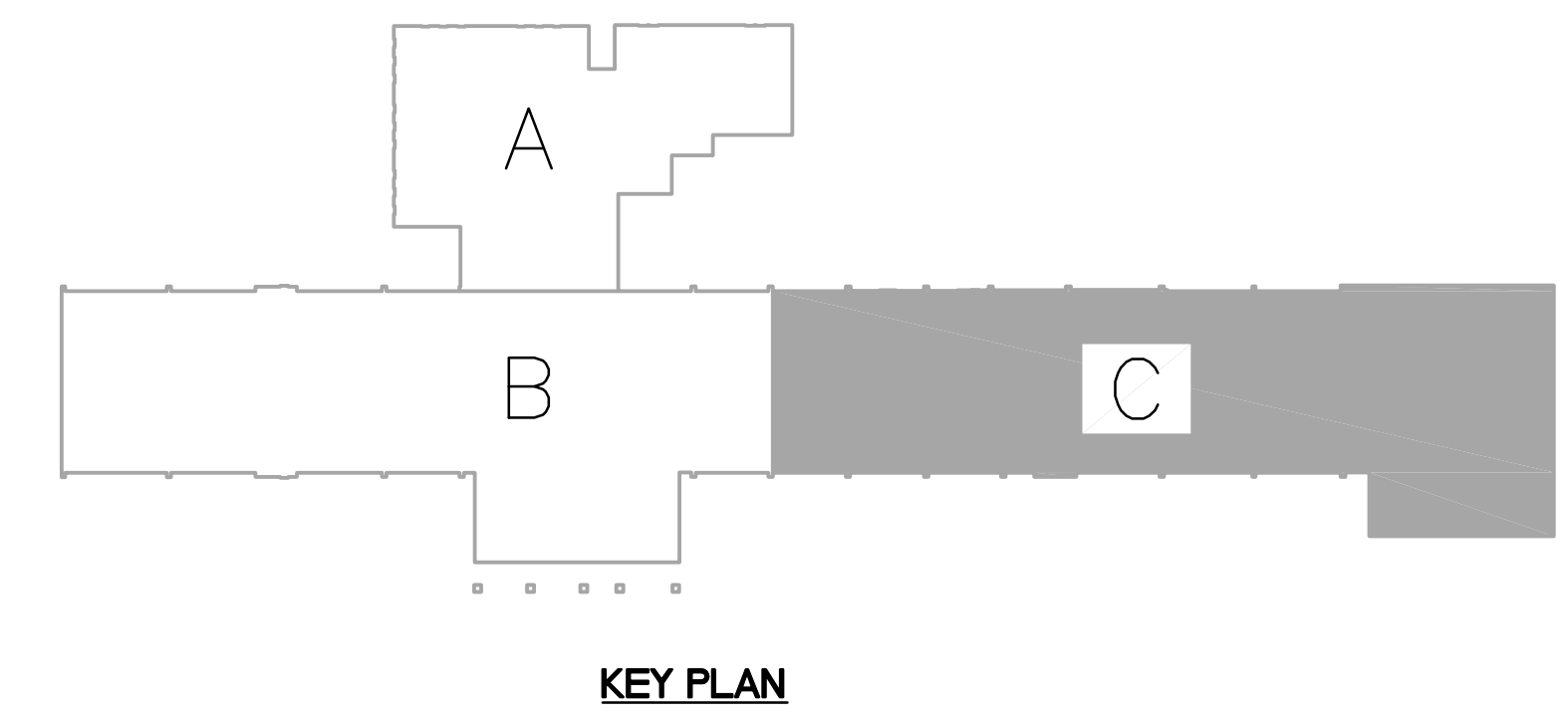


Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
Nancy Elementary School
NANCY, KY
MECHANICAL - AREA C

REVISIONS
DATE: 03.11.2022
DRAWN: BM, LA, HC, NT
CHECKED: CC

SET NO.
M3-3.1C

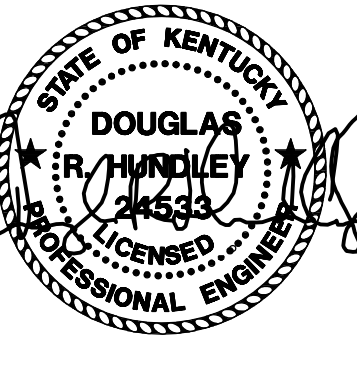
- | | |
|--|--|
| <p>GENERAL NOTES:</p> <ol style="list-style-type: none"> A. EXISTING GEOTHERMAL PIPING ROUTED UNDERSLAB TO EXISTING WELLFIELD IS TO REMAIN. PROVIDE INTERIOR SHUT-OFF VALVES AS REQUIRED. REFER TO DETAILS FOR MORE INFORMATION. B. CONTRACTOR RESPONSIBLE FOR VERIFYING PIPE FLOW DIRECTION AND PIPE SIZE FOR CONNECTION. C. HEAT PUMP INSTALLATION - REFER TO DETAILS ON SHEET M-6.1 FOR PIPE CHASE INFORMATION AND VALVE KIT INFORMATION/ LOCATIONS. D. PROVIDE A HIGH EFFICIENCY TAKE-OFF AND VOLUME DAMPER AT EACH GRILLE, REGISTER, AND DIFFUSER BRANCH RUNOUT, TYPICAL OF ALL UNLESS DAMPER LOCATION IS SHOWN ON FLOOR PLANS. REFER TO THE DETAIL ON SHEET M-6.0 FOR SPECIFIC REQUIREMENTS. E. R-1 GRILLE; REFER TO THE RETURN AIR CANOPY DETAIL ON SHEET M-6.0. F. FOR ALL DUCTS OPEN TO PLENUM SPACE, PROVIDE A 1/2" MESH SCREEN ON THE DUCT OPENING. G. COORDINATE INSTALLATION OF DUCT MOUNTED SMOKE DETECTORS WITH ELECTRICAL CONTRACTOR. H. FIRE DAMPER; REFER TO THE DETAIL ON SHEET M-6.0. I. BALANCE ALL DAMPERS (NEW AND EXISTING) TO CFM LISTED ON THE DRAWING - COORDINATE WITH TAB CONTRACTOR. J. TEMPERATURE CONTROL PANELS (TCP) - COORDINATE LOCATION AND REQUIREMENTS WITH TCC AND ELECTRICAL CONTRACTOR. K. ALL GRILLES THAT ARE TO REMAIN SHALL BE CLEANED. | <p>MECHANICAL NOTES:</p> <ol style="list-style-type: none"> 1. PROVIDE A 16"x8" SHEET METAL SLEEVE IN WALL ABOVE THE CEILING FOR RETURN AIR PATH. 2. PROVIDE 24"x8" SHEET METAL SLEEVE IN WALL ABOVE THE CEILING FOR RETURN AIR PATH. 3. PROVIDE ESCUTCHEON PLATE AT DUCT PENETRATION. REFER TO ROOF PLAN FOR DUCT SIZE. 4. EXPOSED DUCTWORK/PIPING TO HAVE CANVAS JACKET AND PAINTED. ALL ASSOCIATED STRUCTURAL/PIPING BRACING/HANGERS/SUPPORTS TO BE PAINTED TO MATCH ADJACENT SURFACES. 5. REINSTALL RETURN AIR GRILLE, TAP, AND BOOT IN EXISTING CEILING. COORDINATE LOCATION WITH EXISTING CEILING MOUNTED ITEMS. 6. EXPOSED ROUND/OVAL DUCTWORK TO BE DOUBLE WALL DUCT AND PAINTED. ALL STRUCTURAL BRACING FOR DUCTWORK TO BE PAINTED TO MATCH EXISTING SURFACES. NO DUCT SEALANT TO BE USED ON DUCTWORK TO BE PAINTED. SUPPORT WITH AIRCRAFT CABLES AND SELF-TIGHTENING LOCKS. 7. DIFFUSERS SHALL BE INSTALLED AT A 45° ANGLE TOWARDS THE FLOOR. TYPICAL OF ALL DIFFUSERS. 8. PIPING TO BE ROUTED IN EXTERIOR SOFFIT AND AS HIGH AS POSSIBLE. COORDINATE SOFFIT WITH GENERAL CONTRACTOR, REFER TO DETAIL FOR FURTHER INFORMATION. 9. DUCTWORK TO BE ROUTED IN SOFFIT. COORDINATE SOFFIT WITH GENERAL CONTRACTOR, REFER TO DETAIL FOR FURTHER INFORMATION. 10. PROVIDE MOTORIZED DAMPER AT ROOF LEVEL AND INTERLOCK WITH HEAT PUMP FAN AND OCCUPANCY SENSOR. 11. PROVIDE FULL SIZE ISOLATION VALVES, 3/4" VALVED DRAIN LINES IN PIPING WITH THREADED HOSE CONNECTION AND CAP ON DRAIN LINE. 12. EXTEND CHASE WITH METAL SHROUD AS REQUIRED. PAINT METAL SHROUD TO MATCH ADJACENT SURFACES. 13. PROVIDE LOW METAL PIPE CHASE AS REQUIRED TO CONNECT GS/GR PIPING TO EXISTING WELLFIELD. PAINT SHEET METAL TO MATCH ADJACENT SURFACES. 14. COORDINATE MOUNTING HEIGHT OF AC UNIT WITH GENERAL CONTRACTOR. ROUTE REFRIGERANT PIPING UP TO ROOF MOUNTED CONDENSING UNIT THROUGH NEW PIPING PORTAL. REFER TO ROOF PLAN FOR ADDITIONAL INFORMATION. FASTEN CONDENSATE TO WALL WITH TWO HOLE STRIP AND SPILL TO GRADE. 15. MODIFY EXISTING EXHAUST DUCT AS REQUIRED TO INSTALL NEW OUTDOOR AIR DUCT. |
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PARTIAL FIRST FLOOR PLAN (AREA C) - MECHANICAL

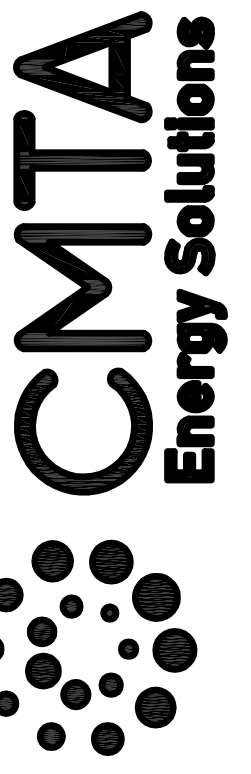
SCALE: 1/8" = 1'-0"

1
M3-3.1C



BID SET

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Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
Nancy Elementary School
NANCY, KY
ROOF-MECHANICAL

REVISIONS

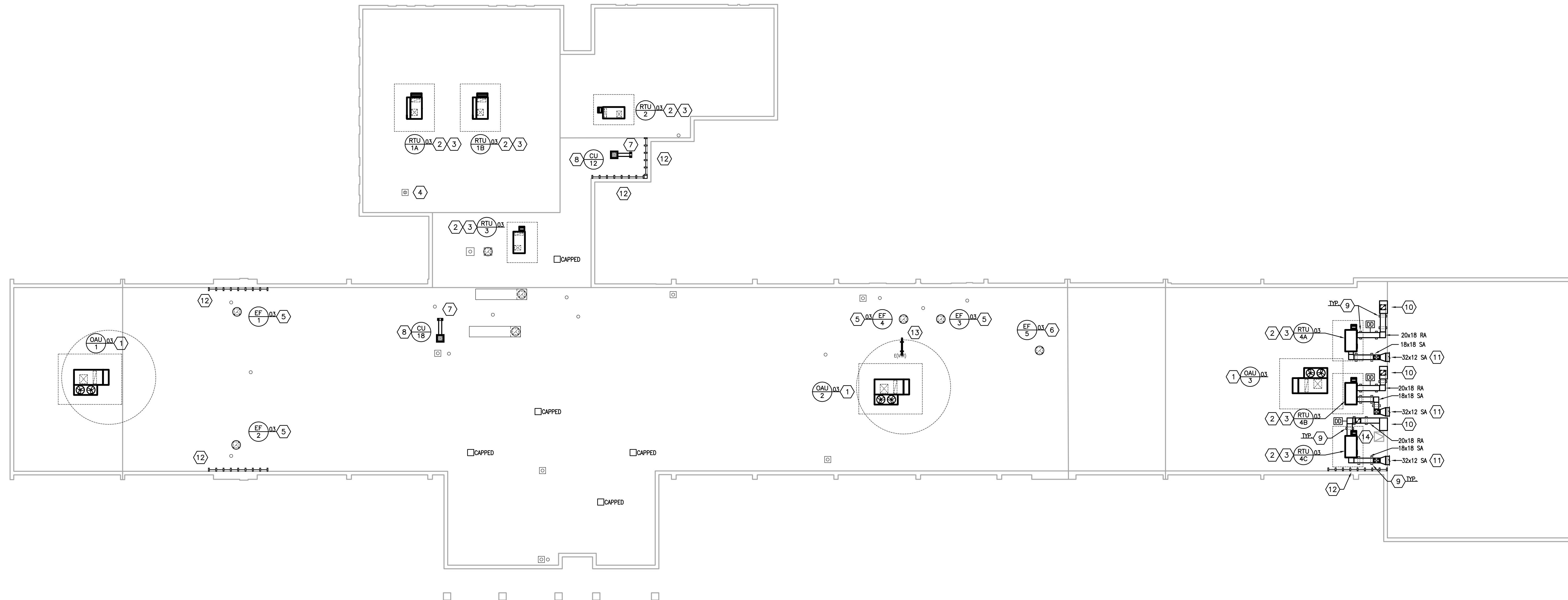
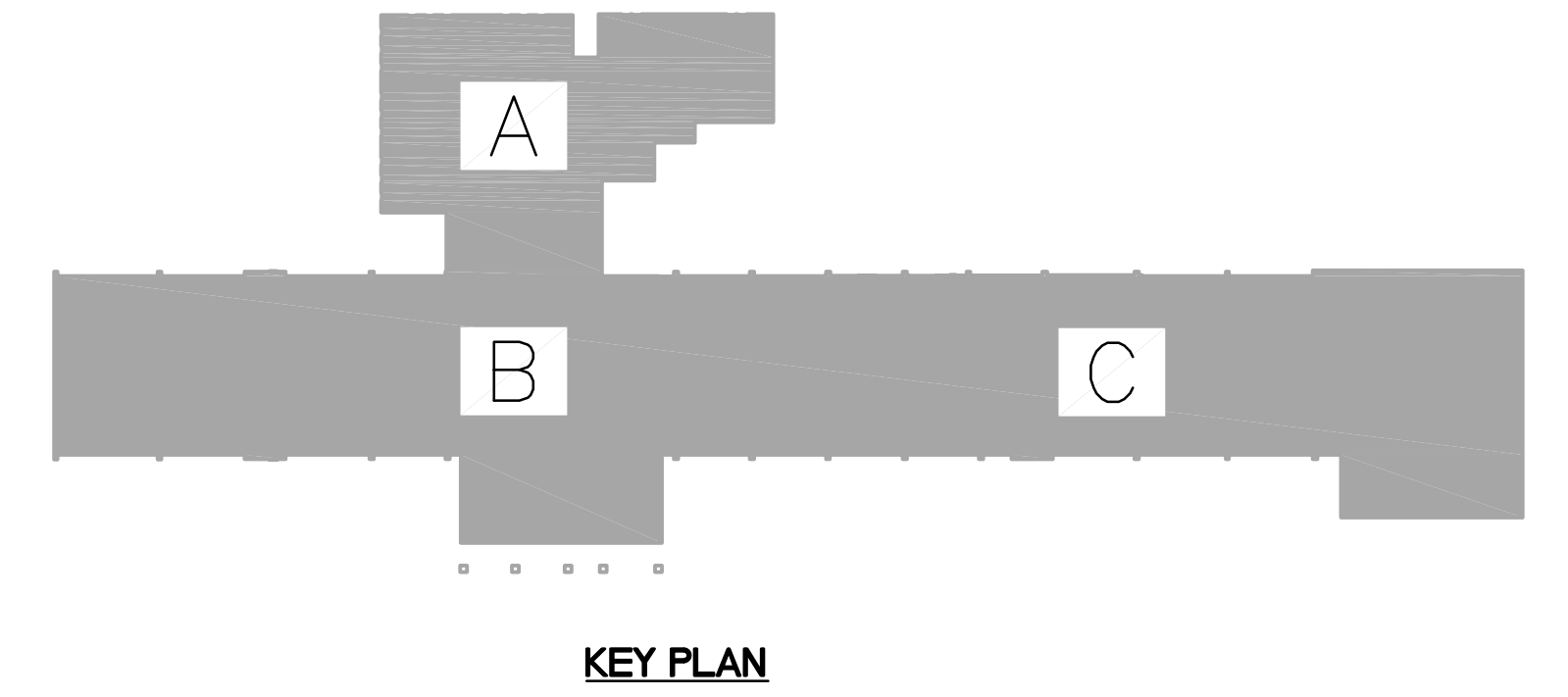
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DRAWN: EM, LA, HC, NT
CHECKED: CG

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M3-
3.2

MECHANICAL NOTES - ROOF:

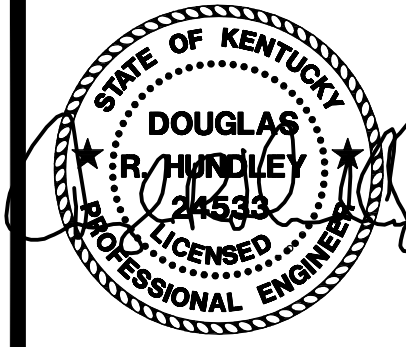
1. NEW ROOF TOP UNIT INSTALLED ON NEW CURB. CUT/PATCH/FLASH ROOF AS REQUIRED. REFER TO DETAILS ON SHEET M-6.2 FOR ADDITIONAL INFORMATION. UNIT CONDENSATE SHALL BE SPILLED TO NEAREST ROOF DRAIN.
2. NEW ROOF TOP UNIT INSTALLED ON EXISTING CURB. PROVIDE NEW CURB ADAPTER WITH CURB CAP, AND PLENUM CURB. REFER TO DETAILS ON SHEET M-6.2 FOR ADDITIONAL INFORMATION.
3. REFER TO GEOTHERMAL ROOFTOP UNIT PIPING SCHEMATIC ON SHEET M-6.2 FOR PIPING REQUIREMENTS. UNIT CONDENSATE SHALL BE SPILLED TO NEAREST ROOF DRAIN.
4. NEW FRESH AIR INTAKE GOOSENECK, PROVIDE NEW CURB AND CUT/PATCH/FLASH ROOF AS REQUIRED. REFER TO DETAIL ON SHEET M-6.2 FOR ADDITIONAL INFORMATION.
5. NEW FAN/HOOD INSTALLED ON AN EXISTING CURB. PROVIDE CURB ADAPTER AS REQUIRED. TRANSITION DUCTWORK TO FAN/HOOD OPENING AS REQUIRED.
6. NEW FAN/HOOD INSTALLED ON A NEW CURB. TRANSITION DUCTWORK TO FAN/HOOD OPENING AS REQUIRED. CUT/PATCH/FLASH ROOF AS REQUIRED.
7. ROUTE THE REFRIGERANT PIPING DOWN THROUGH A NEW ROOF CURB/PIPING PORTAL. PROVIDE A ROOF PRODUCTS MODEL RFG-90 OR APPROVED EQUAL ROOF CURB WITH PIPE CHASE. REFER TO THE PIPE PORTAL DETAIL ON SHEET M-6.2 FOR ADDITIONAL INFORMATION. ROOF CURB SHALL BE 3'-0" AWAY FROM CONDENSING UNIT. REFRIGERANT PIPING SHALL BE SUPPORTED BY COOPER B-LINE C-SERIES ROOFTOP SUPPORTS.
8. NEW CONDENSING UNIT MOUNTED ON A NEW ROOF CURB. REFER TO DETAIL ON DRAWING M-6.2. CUT/PATCH/FLASH ROOF AS REQUIRED.
9. PROVIDE DUCT SUPPORTS 4'-0" ON CENTER. DUCT SUPPORTS SHALL BE DURA BLOCK DB_DS SERIES. CONTRACTOR TO VERIFY MAXIMUM HEIGHT REQUIRED. INSULATE DUCTWORK PER SPECIFICATION SECTION 202200.
10. CONNECT NEW FULL SIZE PLENUM TO EXISTING RETURN AIR GRILLE. SEAL AROUND DUCTWORK PENETRATION AT EXTERIOR WALL WEATHER TIGHT. CONNECT TO PLENUM WITH EXPANDED THROAT TAP.
11. TRANSITION TO EXISTING OPENING SIZE AND SEAL AROUND DUCTWORK PENETRATION AT EXTERIOR WALL WEATHER TIGHT. REFER TO FLOOR PLAN FOR CONTINUATION OF DUCTWORK.
12. NEW NON-PENETRATING OSHA COMPLIANT EDGE PROTECTION ROOF RAILING SYSTEM. BASIS OF DESIGN: BLUEWATER SAFETYFORM 2000F SYSTEM. MAINTAIN EQUIPMENT CLEARANCES.
13. APPROXIMATE EXISTING VTR LOCATION. ROUTE NEW PLUMBING VENT ACROSS ROOF AND TERMINATE NO LESS THAN 15' FROM ANY FRESH AIR INTAKE. PROVIDE AND INSTALL NEW HUB COUPLING TO JOIN NEW VENT PIPE AND EXISTING VTR. PROVIDE AND INSTALL NEW PIPE SUPPORTS EVERY 3'-0" FOR NEW VENT PIPING. SUPPORTS SHALL BE COPPER, B-LINE, MODEL C-SERIES OR EQUAL.
14. OFFSET DUCT UP AS SOON AS POSSIBLE AND ROUTE OVERHEAD AS TO MAINTAIN ACCESS TO ROOF HATCH.



ROOF PLAN - MECHANICAL

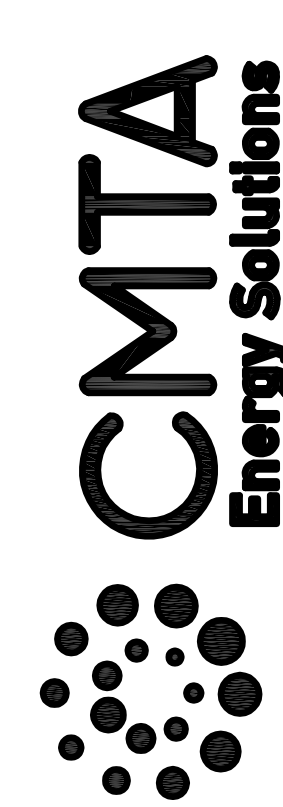
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M3-3.2



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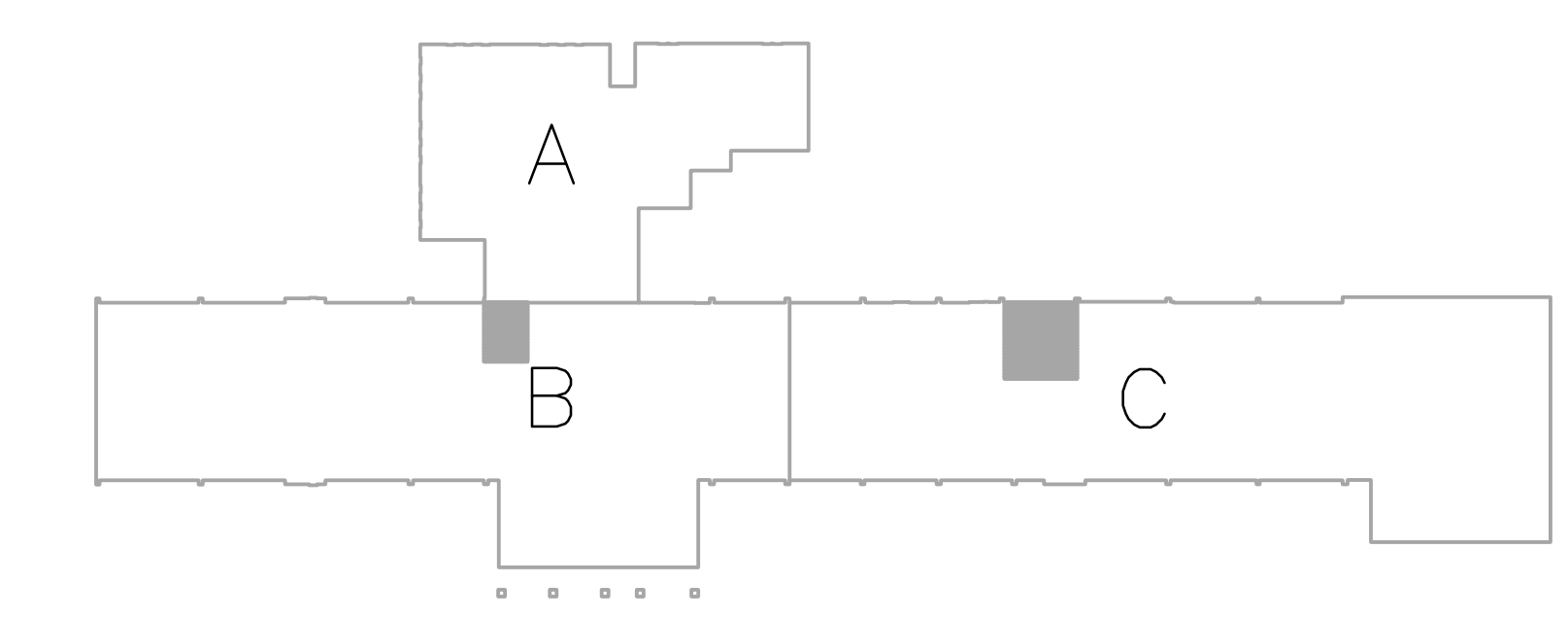
Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
Nancy Elementary School
NANCY, KY
ENLARGED MECHANICAL PLANS

REVISIONS

DATE: 03.11.2022
DRAWN: EM, LA, HC, NT
CHECKED: CG

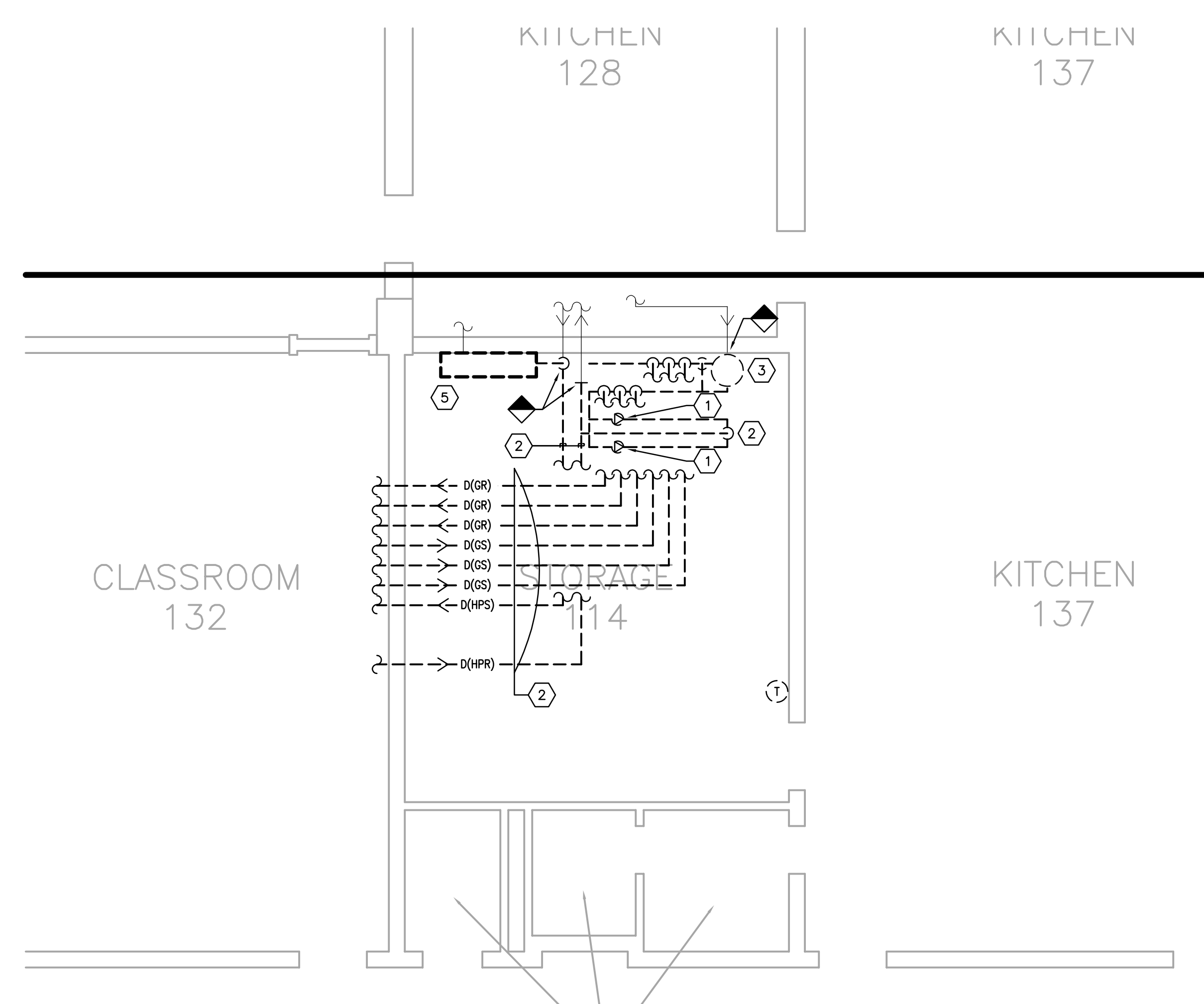
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KEY PLAN

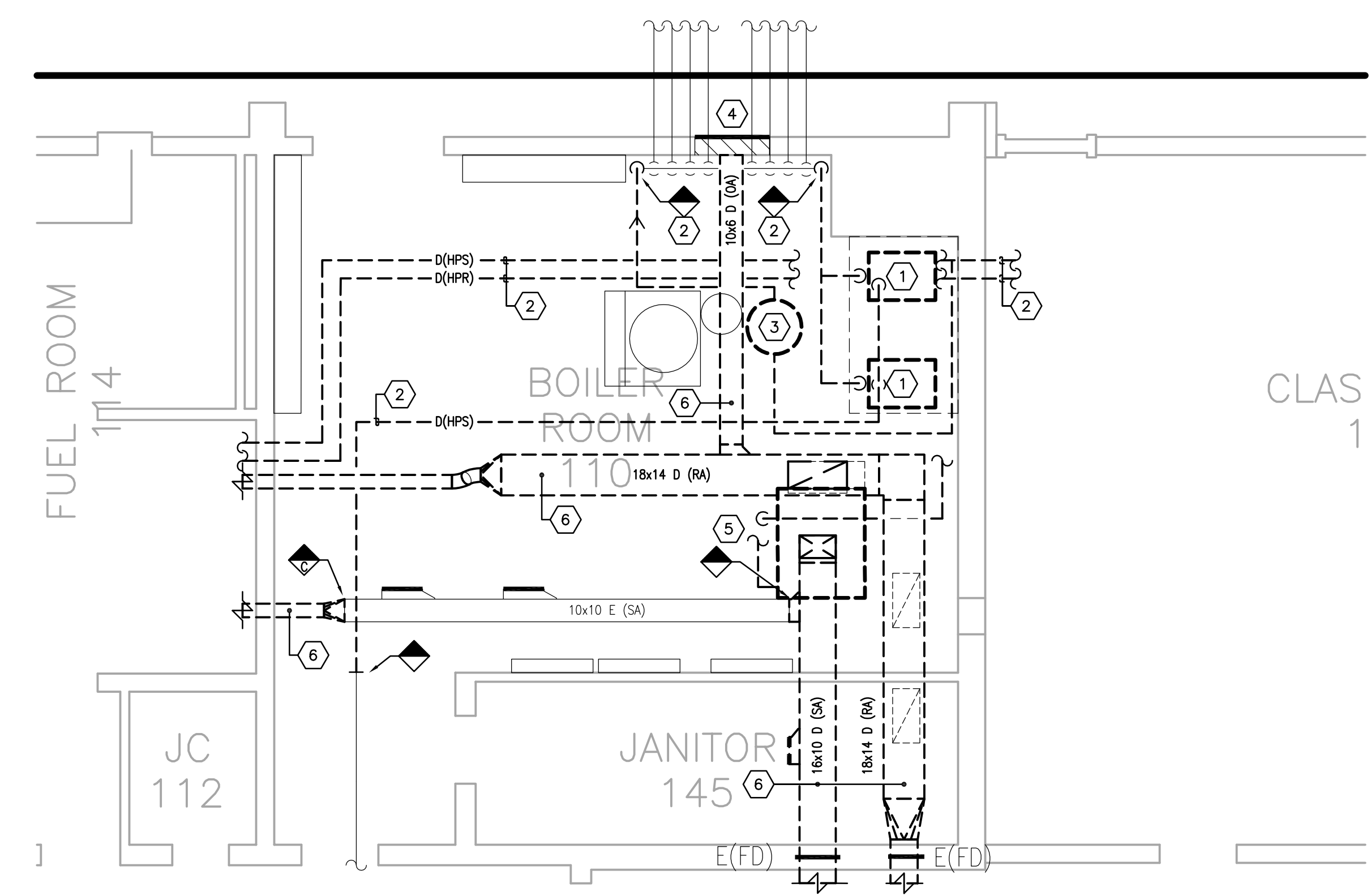
- ENLARGED MECHANICAL ROOMS - GENERAL NOTES:
- PATCH ALL WALL/ROOF/FLOOR PENETRATIONS WHERE EXISTING MEP EQUIPMENT/PIPING/DUCTWORK/ETC IS REMOVED.
 - REMOVE ALL CONCRETE PADS/SUPPORTS ASSOCIATED WITH MEP EQUIPMENT REMOVAL COMPLETELY; REMOVE ALL ABANDONED PADS/SUPPORTS COMPLETELY; PATCH AND SMOOTH FLOOR AS REQUIRED.
- ENLARGED MECHANICAL ROOMS:
- EXISTING PUMPS TO BE COMPLETELY REMOVED INCLUDING ALL EXISTING MECHANICAL, ELECTRICAL AND CONTROLS CONNECTIONS. CONCRETE PAD SHALL BE REMOVED; PATCH AND SMOOTH FLOOR AS REQUIRED.
 - EXISTING PIPING AND ALL ASSOCIATED VALVES, HANGERS, AND SUPPORTS TO BE COMPLETELY REMOVED. PATCH WALLS/SLAB/CEILING AT PIPING OPENINGS (TYPICAL).
 - EXISTING AIR SEPARATOR TO BE COMPLETELY REMOVED INCLUDING ALL ACCESSORIES/SUPPORTS.
 - EXISTING LOUVER TO REMAIN. BLANK OFF THE INSIDE OF THE EXISTING LOUVER WITH SHEET METAL AND INSULATE WITH 2" RIGID INSULATION. COORDINATE LOUVER INFILL AND FINAL FINISHES WITH GENERAL CONTRACTOR.
 - EXISTING HEAT PUMP TO BE REMOVED COMPLETELY, INCLUDING ALL ASSOCIATED DUCTWORK, PIPING, CONDENSATE DRAIN AND PUMP (IF APPLICABLE), ELECTRICAL AND CONTROLS CONNECTIONS. PATCH WALL/FLOOR AS REQUIRED FOR COMPLETE EQUIPMENT REMOVAL.
 - EXISTING SUPPLY/RETURN/EXHAUST/OUTDOOR AIR DUCTWORK, GRILLES, AND RISER INDICATED TO BE REMOVED COMPLETELY. REMOVE ALL ASSOCIATED HANGERS/SUPPORTS/ACCESSORIES. PATCH WALLS/SLAB/CEILING AT DUCT OPENINGS (TYPICAL).
 - PROVIDE 4" THICK CONCRETE PAD UNDER MECHANICAL EQUIPMENT. PAD SHALL BE 6" LARGER THAN THE MECHANICAL EQUIPMENT FOOTPRINT IN ALL DIRECTIONS UNLESS SHOWN LARGER ON THE FLOOR PLAN.
 - PROVIDE A UNI-STRUT STAND FOR THE VFD. COORDINATE INSTALLATION WITH THE ELECTRICAL CONTRACTOR. PROVIDE VERTICAL UNI-STRUT ON WALL MOUNTED VFD'S.
 - ROUTE 8"X8" RETURN AIR DUCT UP AND TERMINATE WITH 1/2" MESH SCREEN.
 - ROUTE 1 1/2" CONDENSATE TIGHT TO WALL AND OUT EXTERIOR WALL.
 - ROUTE 8"X8" EXHAUST AIR DUCT UP THROUGH ROOF. TRANSITION TO INLET SIZE OF FAN AS REQUIRED. PROVIDE 1/2" MESH SCREEN ON INLET OF DUCT.
 - ELECTRICAL PANEL OR EQUIPMENT. DO NOT ROUTE DUCTWORK OR PIPING ABOVE THE PANELS.
 - NEW CONTROL PANEL FOR BDC SYSTEM. COORDINATE DATA AND POWER CONNECTION WITH THE ELECTRICAL CONTRACTOR.



ENLARGED STORAGE ROOM - MECHANICAL DEMOLITION

SCALE: 1/4" = 1'-0"

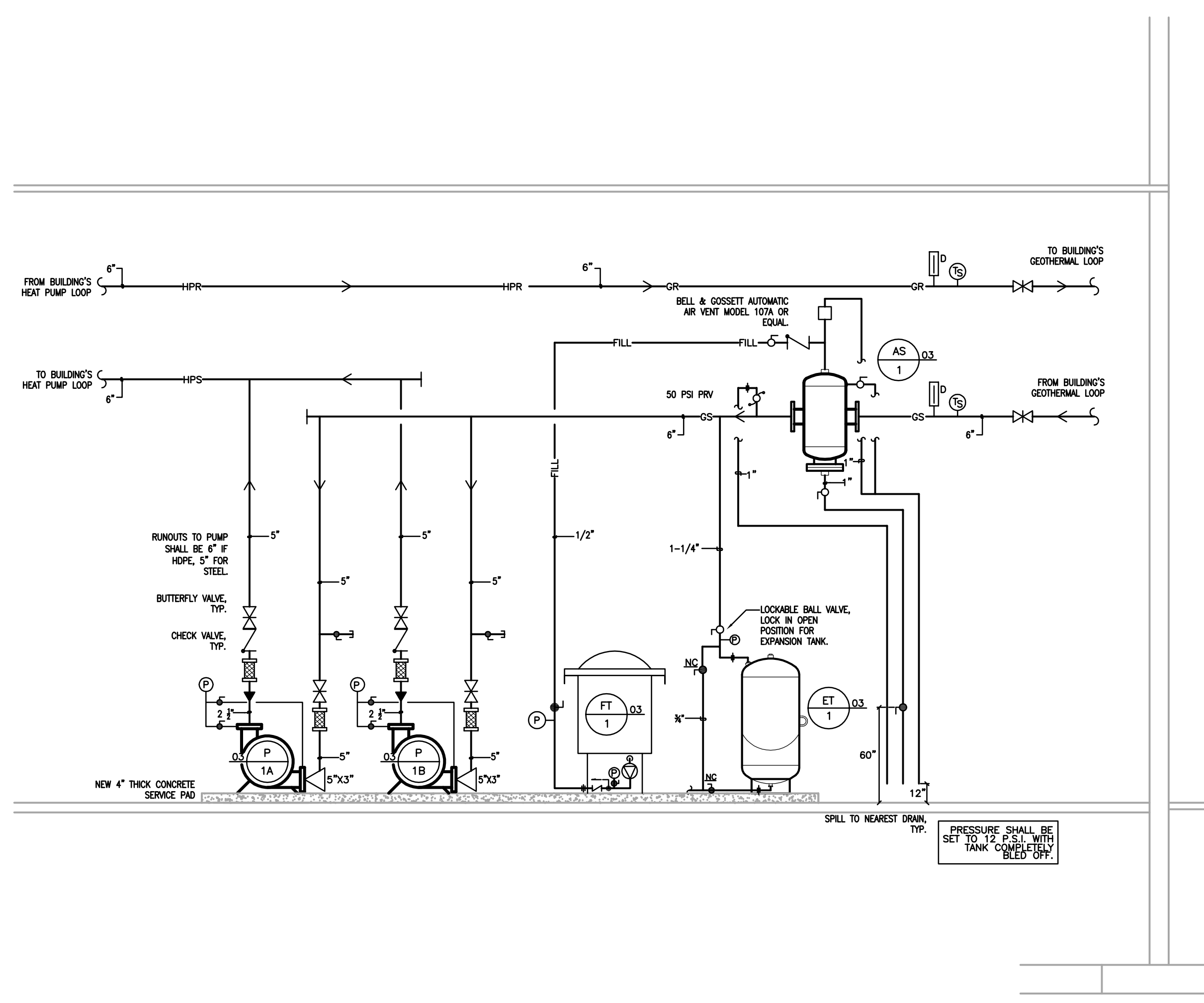
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ENLARGED BOILER ROOM - MECHANICAL DEMOLITION

SCALE: 1/4" = 1'-0"

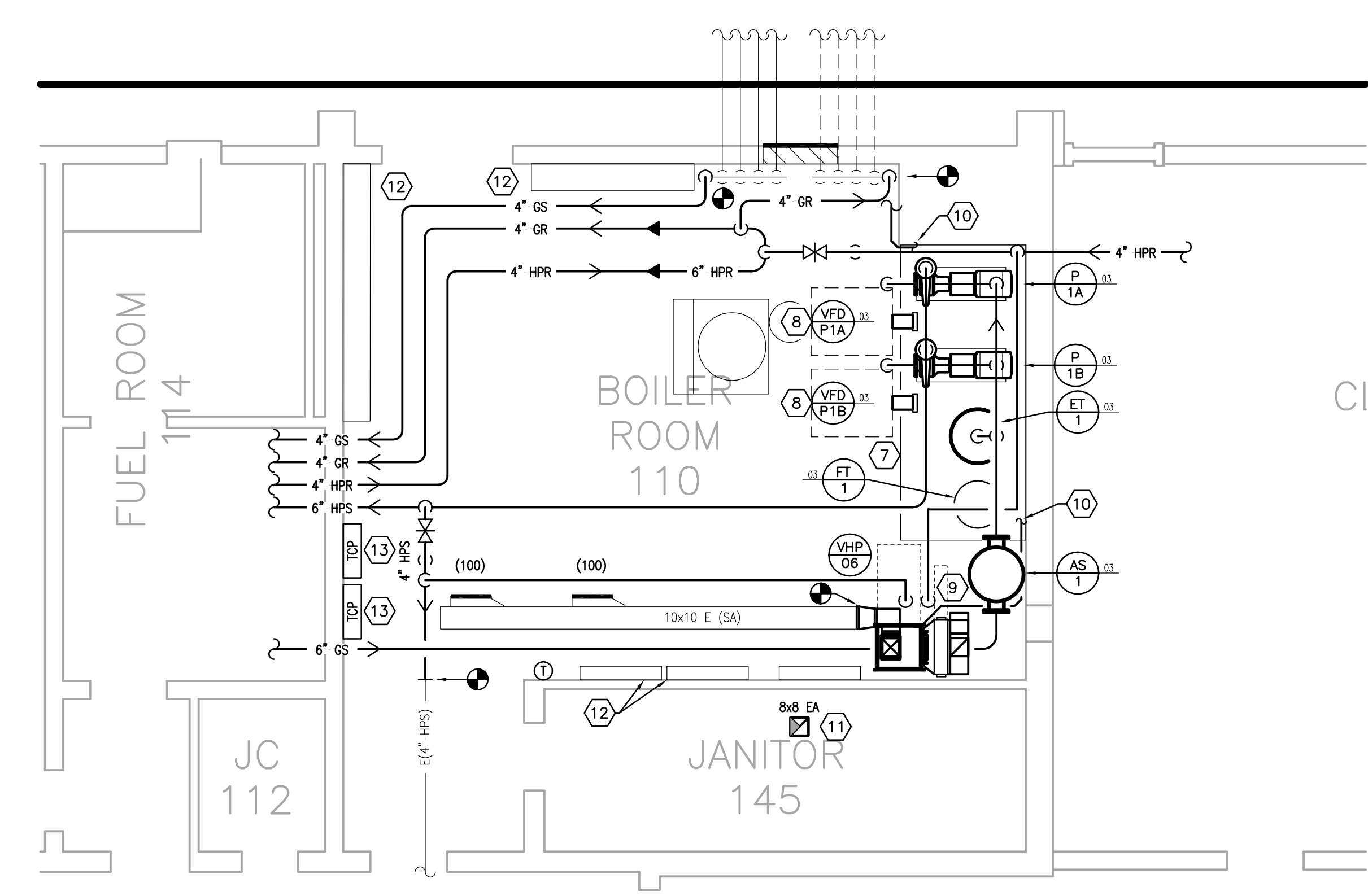
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GEOTHERMAL PIPING SCHEMATIC

SCALE: NTS

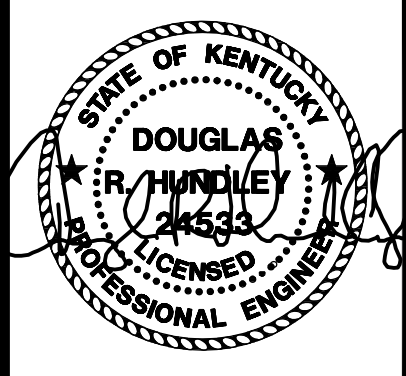
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ENLARGED BOILER ROOM - MECHANICAL

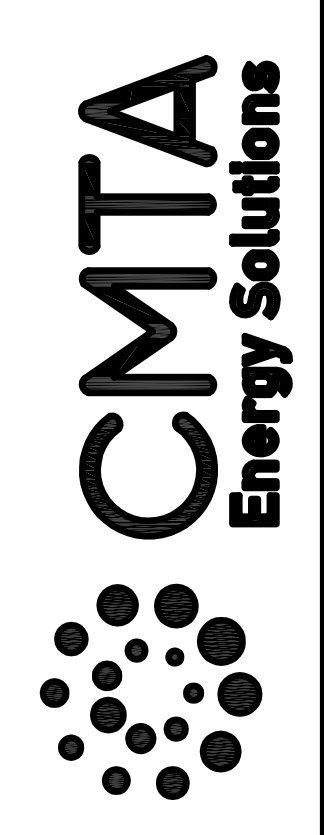
SCALE: 1/4" = 1'-0"

3 MS-4.0



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Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
SHOPVILLE ELEMENTARY SCHOOL
SOMERSET, KY

SITE PLAN EXISTING GEOTHERMAL WELLFIELD

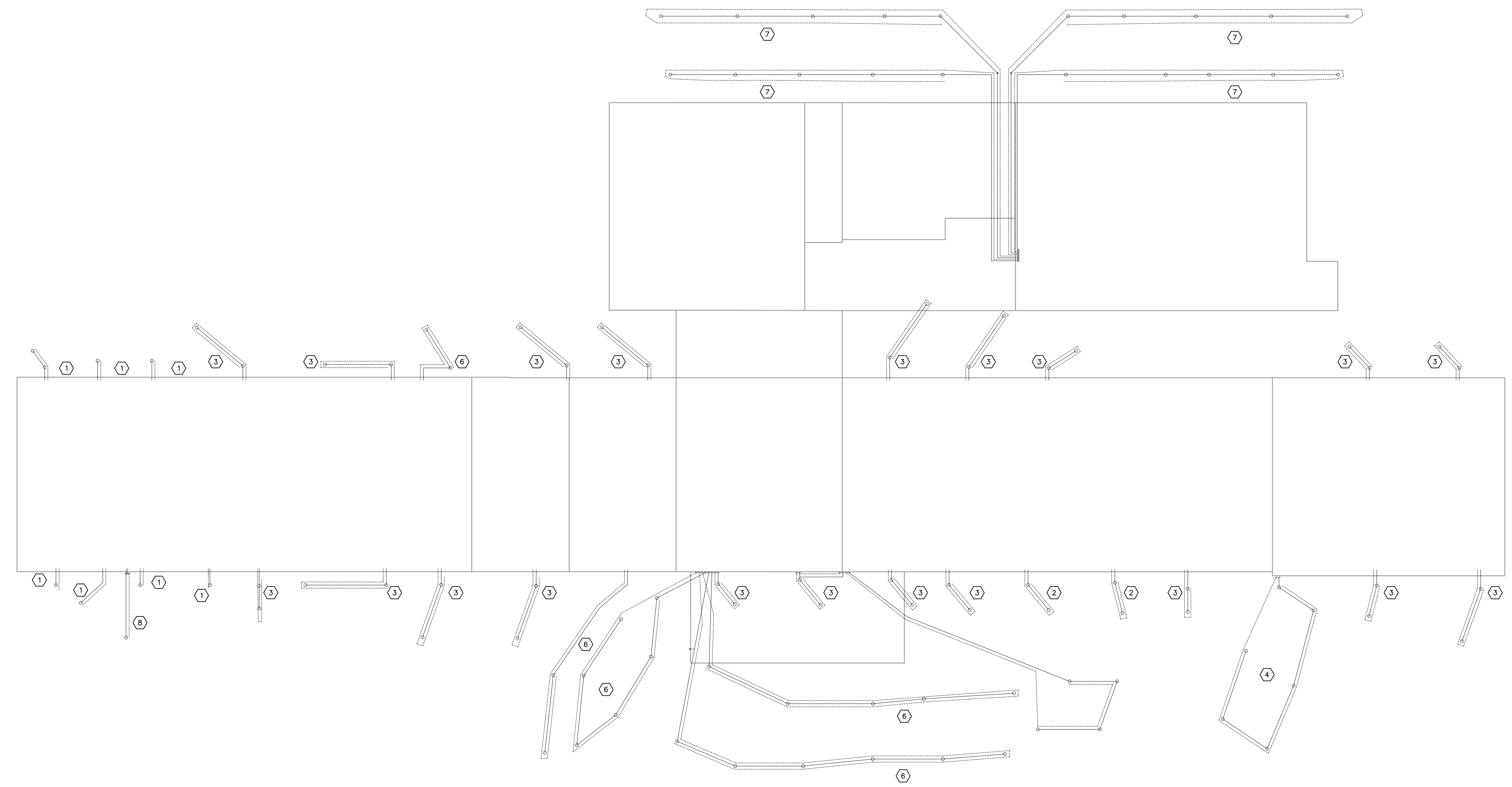
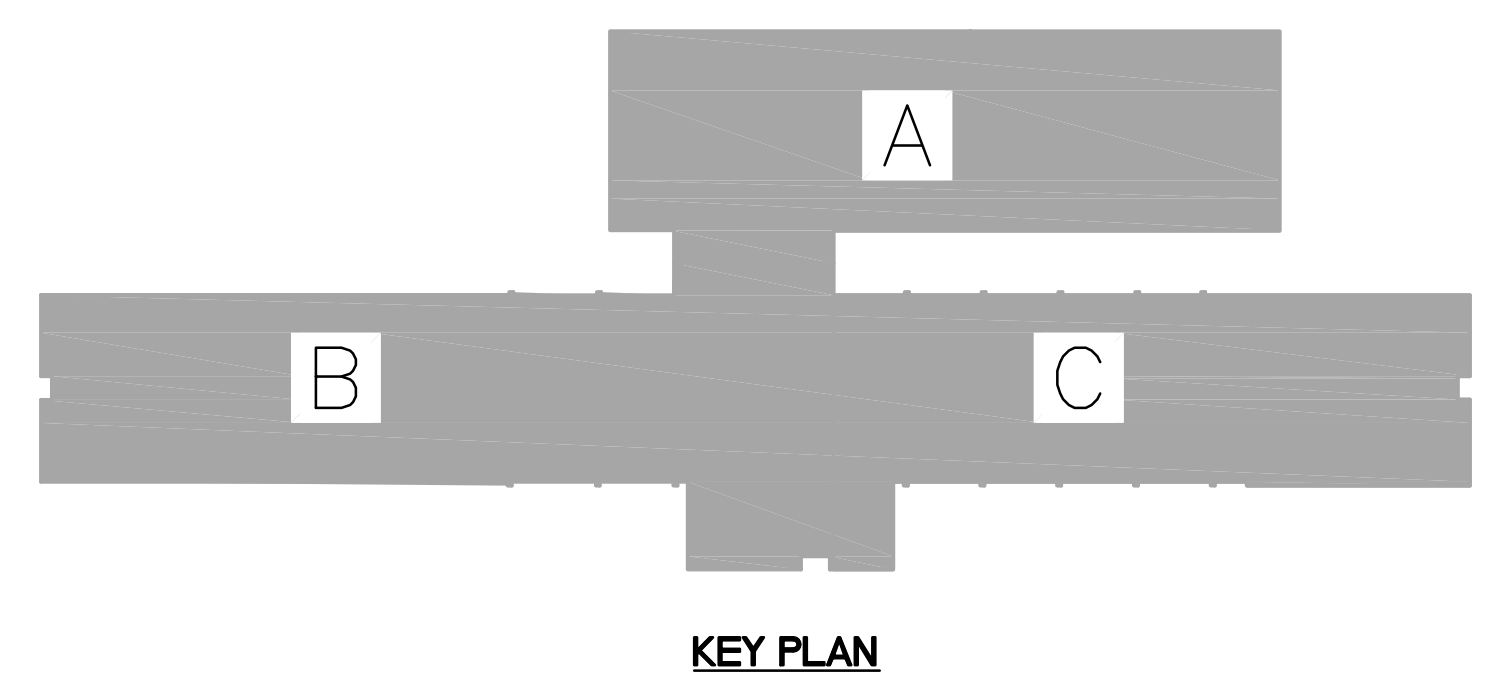
REVISIONS

DATE: 03.11.2022
DRAWN: EM, LA, HC, NT
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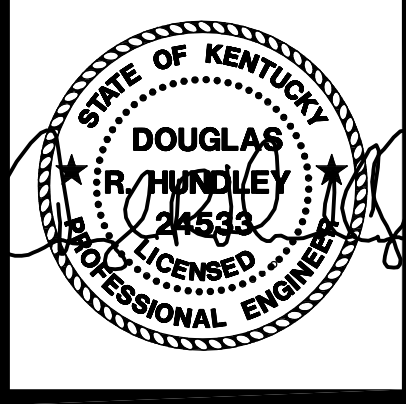
M4-
2.0

WELL LOOP SCHEDULE			
WELLFIELD DESIGNATION	WELL DEPTH	PIPE SIZE	GPM PER WELL
①	175'	1"	2.2
②	185'	1"	2.32
③	225'	1"	2.82
④	227'	1"	2.90
⑤	255'	1"	3.20
⑥	272'	1"	3.40
⑦	273'	1"	3.40
⑧	300'	1"	3.76



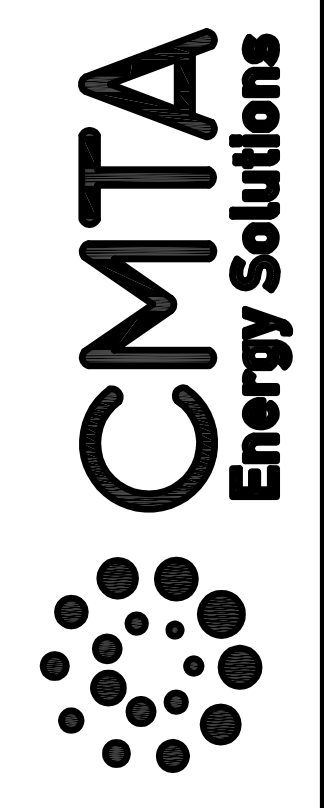
SITE PLAN - EXISTING GEOTHERMAL WELLFIELD 1
SCALE: 1/16" = 1'-0" M4-3.0

FOR
REFERENCE
ONLY



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Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
SHOPVILLE ELEMENTARY SCHOOL
SOMERSET, KY
MECHANICAL DEMOLITION - AREA A

NO.	DATE	DESCRIPTION

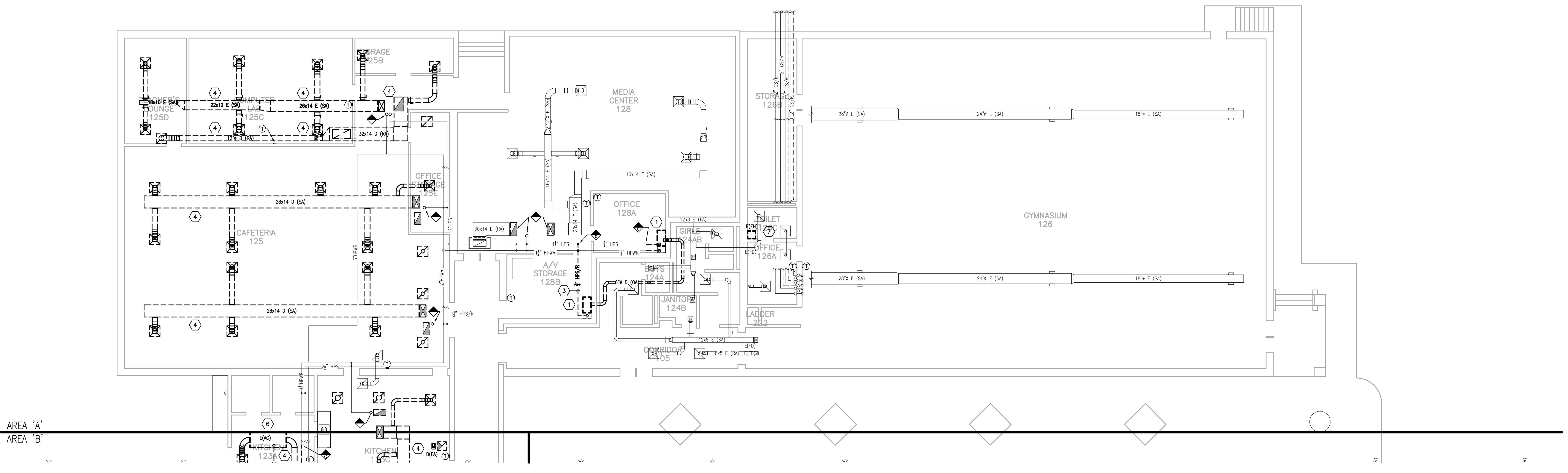
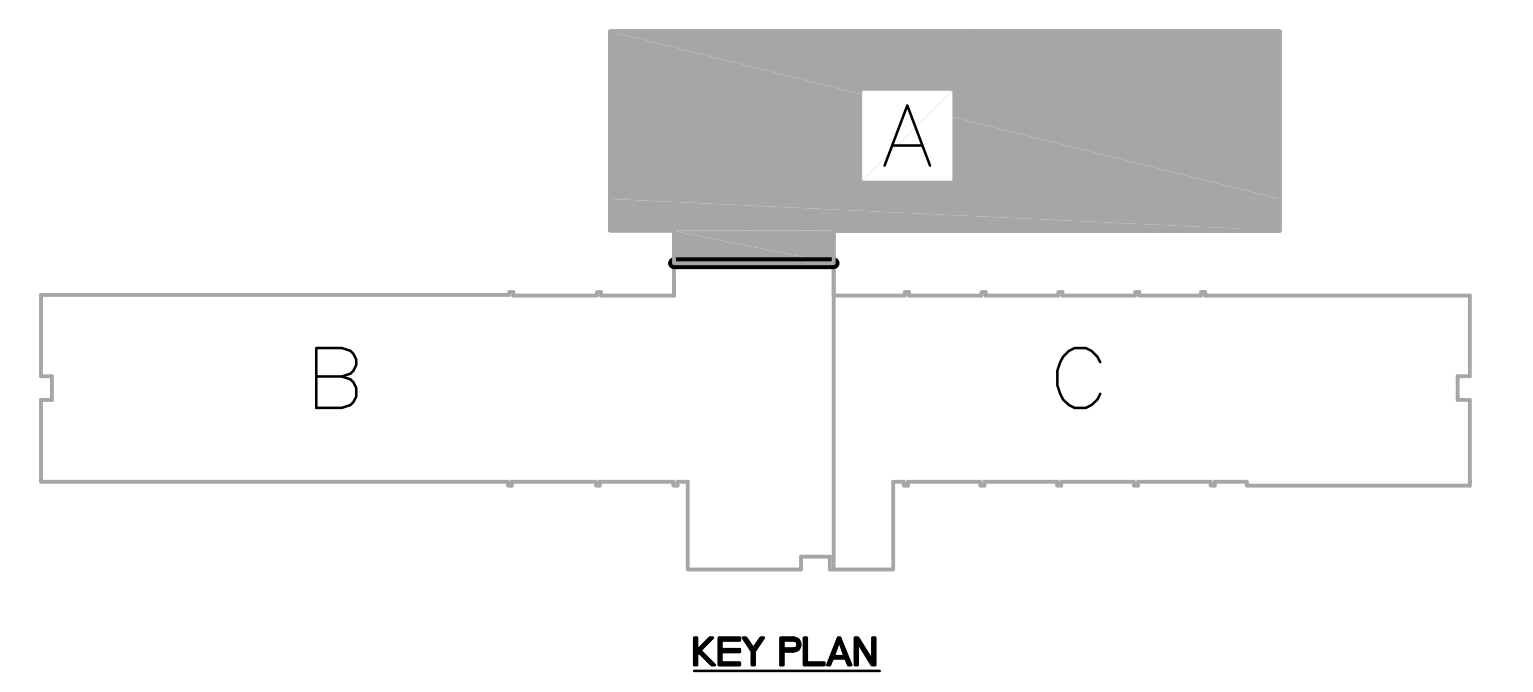
DATE: 03.11.2022
DRAWN: BM, LA, HC, NT
CHECKED: CG

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2.1A

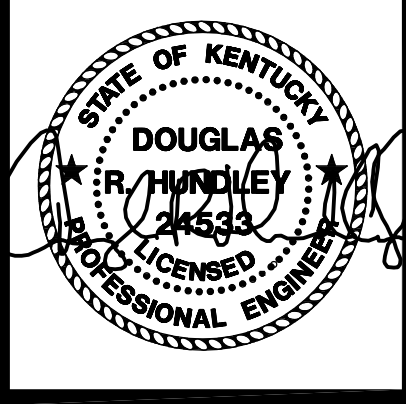
- GENERAL DEMOLITION NOTES: (X)
- EXISTING GEOTHERMAL PIPING ROUTED UNDERSLAB TO EXISTING WELLFIELD IS TO REMAIN. PROVIDE INTERIOR SHUT-OFF VALVES AS REQUIRED. REFER TO NEW WORK PLANS AND DETAILS FOR MORE INFORMATION.
 - CONTRACTOR RESPONSIBLE FOR VERIFYING PIPE FLOW DIRECTION AND PIPE SIZE FOR CONNECTION.
 - WALL AND FLOOR PATCHING/PAINING: PATCH/INFILL ALL WALL/FLOOR PENETRATIONS WHERE EXISTING MECHANICAL EQUIPMENT/PIPING/DUCTWORK IS REMOVED. COORDINATE ALL PATCH/INFILL WORK WITH THE GENERAL CONTRACTOR.
 - EXISTING PIPING DEMOLITION: ALL EXISTING PIPING INDICATED TO BE REMOVED, IS TO BE REMOVED COMPLETELY TO BEYOND FINISHED SURFACES. INACCESSIBLE PIPING BURIED IN EXISTING WALLS REMAINING AND CONCRETE SLABS MAY BE ABANDONED IN PLACE.
 - EXISTING THERMOSTAT/TEMPERATURE SENSOR/CONTROLS DEVICES: PROVIDE A STAINLESS STEEL COVER PLATE AT EXISTING OPENING IF LOCATION IS NOT BEING REUSED. COORDINATE ALL CONTROLS WORK WITH TCC.
 - ALL GRILLES THAT ARE TO REMAIN SHALL BE CLEANED.
 - ASBESTOS ABATEMENT: REFER TO GENERAL CONTRACTOR CONCERNING ALL ASBESTOS ABATEMENT ON THE PROJECT.
 - THE OWNER WILL SALVAGE CERTAIN REMOVED EQUIPMENT. COORDINATE WITH THE GENERAL CONTRACTOR.

- MECHANICAL DEMOLITION NOTES: (#)
- EXISTING HEAT PUMP TO BE REMOVED COMPLETELY, INCLUDING ALL ASSOCIATED DUCTWORK, PIPING, CONDENSATE DRAIN AND PUMP (IF APPLICABLE). ELECTRICAL AND CONTROLS CONNECTIONS: PATCH WALL/FLOOR AS REQUIRED FOR COMPLETE EQUIPMENT REMOVAL. COORDINATE WALL AND FLOOR PATCHING WITH GENERAL CONTRACTOR.
 - EXISTING LOUVER TO REMAIN. BLANK OFF THE INSIDE OF THE EXISTING LOUVER WITH SHEET METAL AND INSULATE WITH 2" RIGID INSULATION. COORDINATE LOUVER INFILL AND FINAL FINISHES WITH GENERAL CONTRACTOR.
 - REMOVE AND DISPOSE OF EXISTING HYDRONIC AND CONDENSATE PIPING/RISER AND ALL ASSOCIATED HANGERS AND SUPPORTS. PATCH WALLS/SLAB/CEILING AT PIPING OPENINGS (TYPICAL).
 - EXISTING SUPPLY/RETURN/EXHAUST/OUTDOOR AIR DUCTWORK, GRILLES, AND RISER INDICATED TO BE REMOVED COMPLETELY. REMOVE ALL ASSOCIATED HANGERS/SUPPORTS/ACCESSORIES. PATCH WALLS/SLAB/CEILING AT DUCT OPENINGS (TYPICAL).
 - REMOVE EXISTING CEILING MOUNTED EXHAUST FAN INCLUDING ALL ELECTRICAL AND CONTROLS CONNECTIONS (DISCONNECTS/SWITCHES/ETC). EXISTING EXHAUST RISER TO REMAIN. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION.
 - EXISTING SPLIT SYSTEM AND ASSOCIATED OUTDOOR CONDENSING UNIT TO BE REMOVED COMPLETELY, INCLUDING ALL PIPING, CONDENSATE DRAIN AND PUMP (IF APPLICABLE), ELECTRICAL AND CONTROLS CONNECTIONS. REMOVE ALL ASSOCIATED HANGERS/SUPPORTS/ACCESSORIES. PATCH WALLS/SLAB/CEILING AT DUCT OPENINGS (TYPICAL).
 - REMOVE EXISTING ELECTRIC HEATER INCLUDING ALL ELECTRICAL AND CONTROLS CONNECTIONS.
 - REMOVE PIPING AS REQUIRED TO REPLACE ROOFTOP UNIT ABOVE. REMOVE VALVES AND PIPE ACCESSORIES ASSOCIATED WITH EXISTING ROOFTOP UNIT. REFER TO THE NEW WORK PLANS FOR CONTINUATION.
 - EXISTING PUMPS TO BE COMPLETELY REMOVED INCLUDING ALL EXISTING MECHANICAL, ELECTRICAL AND CONTROLS CONNECTIONS. CONCRETE PAD SHALL BE REMOVED; PATCH AND SMOOTH FLOOR AS REQUIRED.
 - EXISTING AIR SEPARATOR TO BE COMPLETELY REMOVED INCLUDING ALL ACCESSORIES/SUPPORTS.



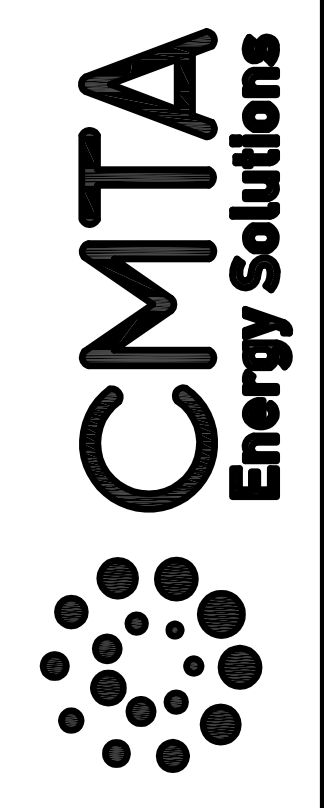
PARTIAL FIRST FLOOR PLAN (AREA A) - MECHANICAL DEMOLITION
SCALE: 1/8" = 1'-0"

1
M4-2.1A



BID SET

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Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
SHOPVILLE ELEMENTARY SCHOOL
SOMERSET, KY
MECHANICAL DEMOLITION - AREA B

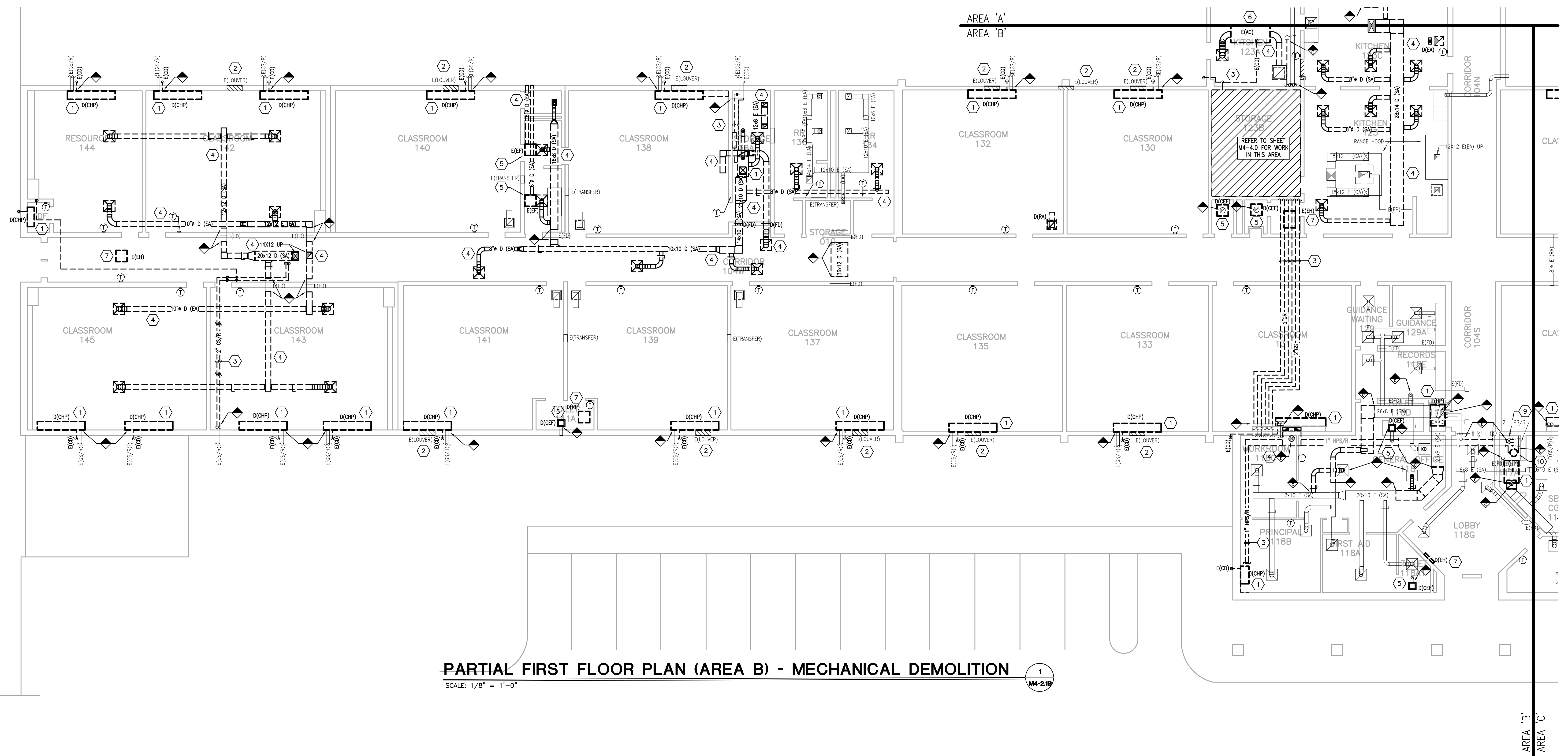
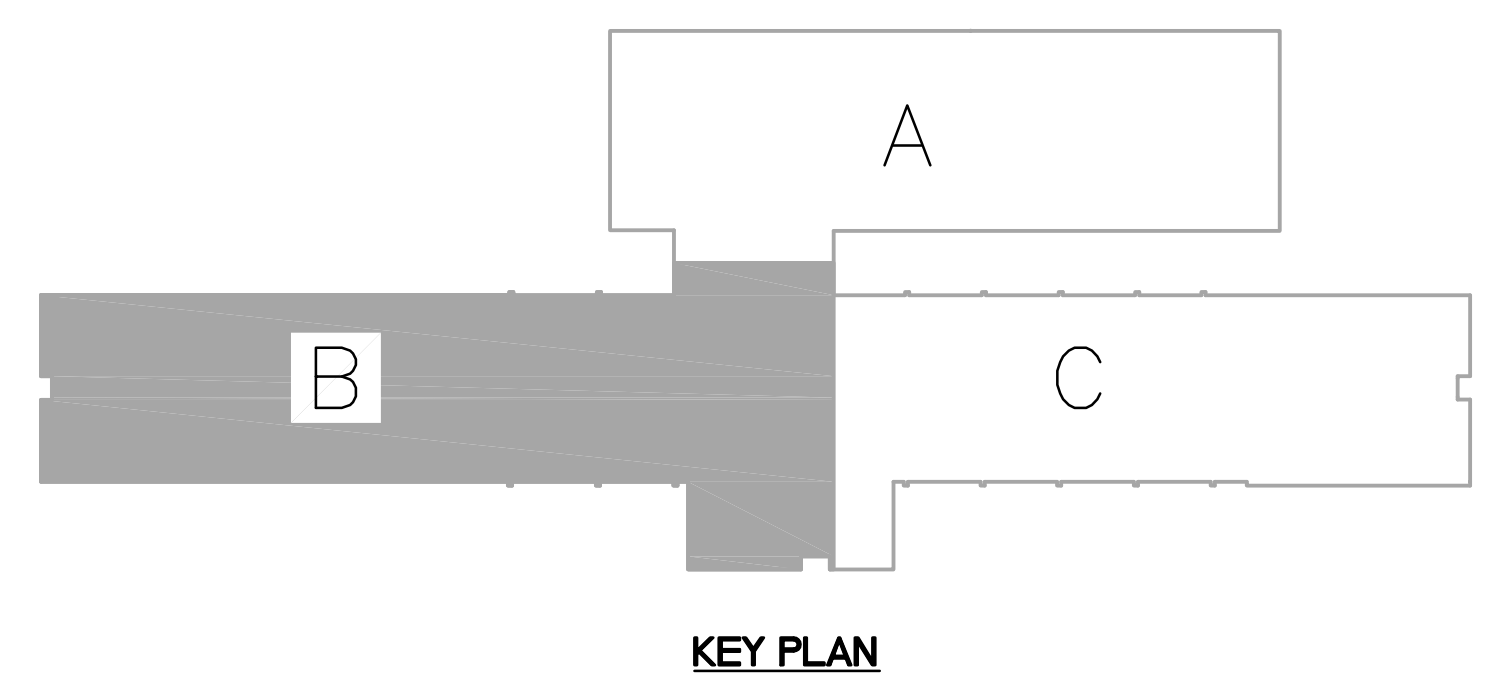
NO.	DATE	DESCRIPTION

DATE: 03.11.2022
DRAWN: BM, LA, HC, NT
CHECKED: CC

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M4-2.1B

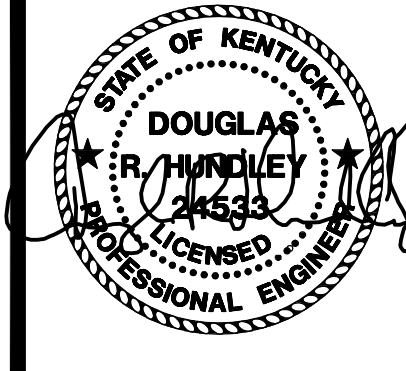
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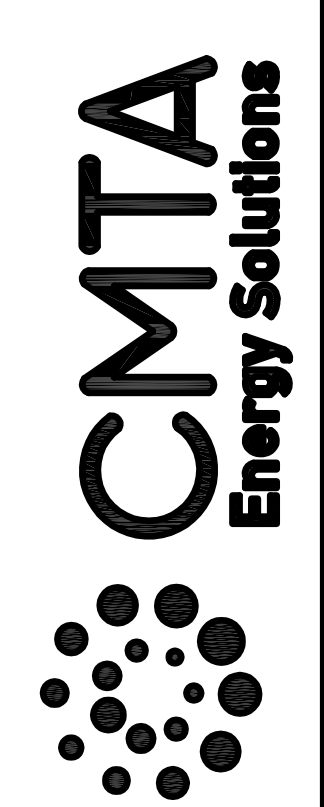
PARTIAL FIRST FLOOR PLAN (AREA B) - MECHANICAL DEMOLITION
SCALE: 1/8" = 1'-0"

1
M4-2.1B



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Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
SHOPVILLE ELEMENTARY SCHOOL
SOMERSET, KY
MECHANICAL DEMOLITION - AREA C

NO.	DATE	DESCRIPTION

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CHECKED: CG

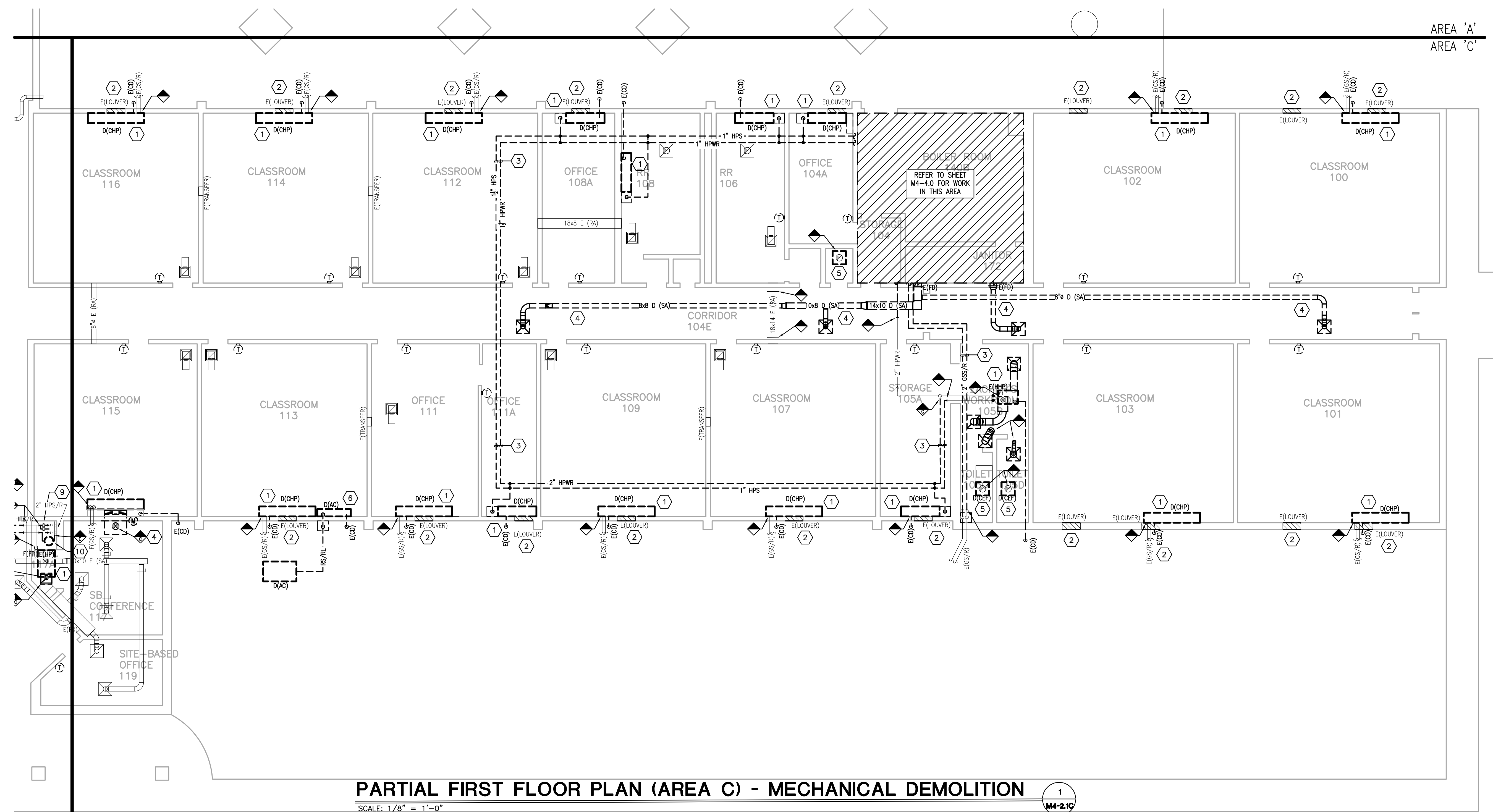
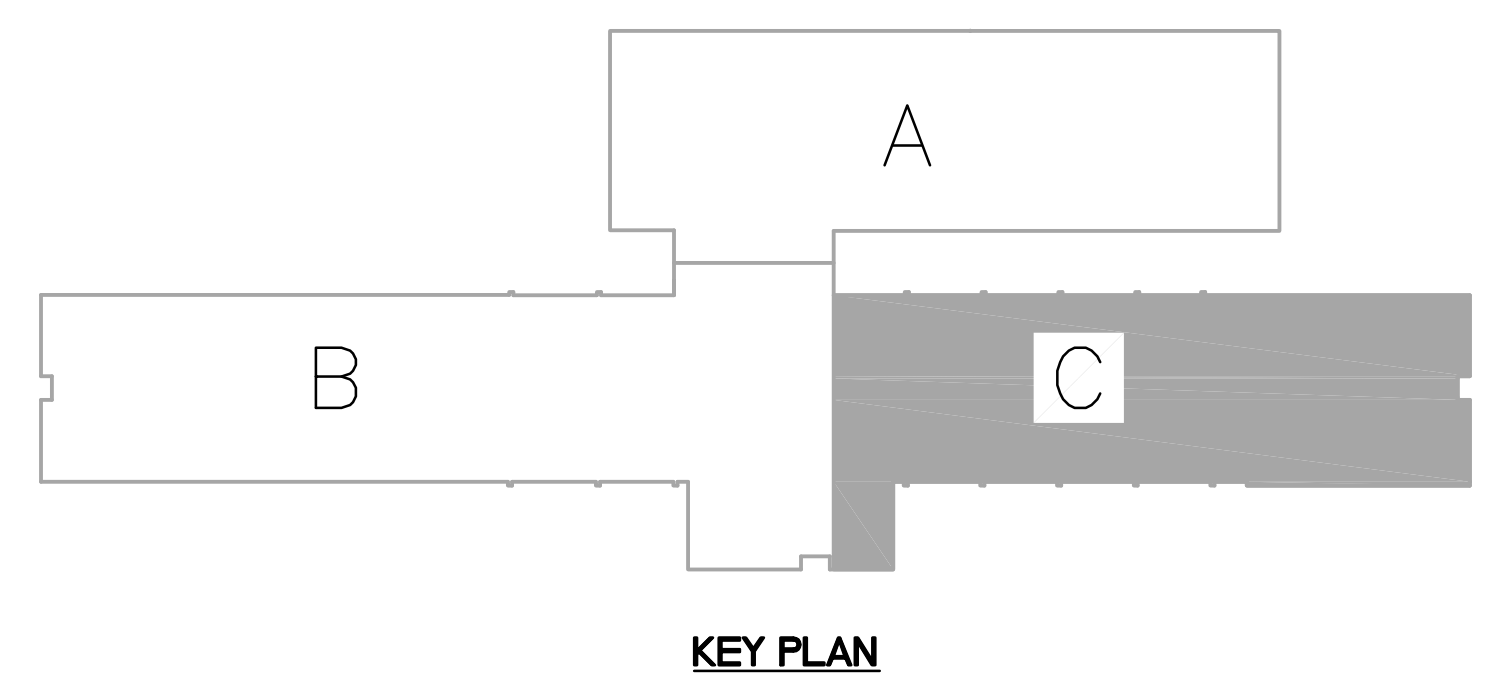
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M4-
2.1C

GENERAL DEMOLITION NOTES:

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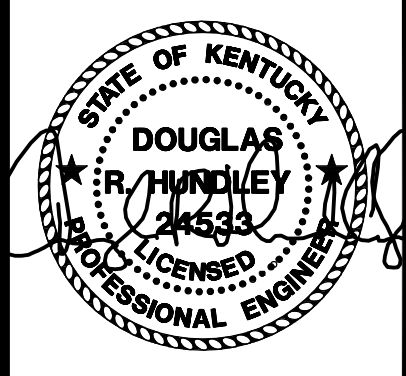
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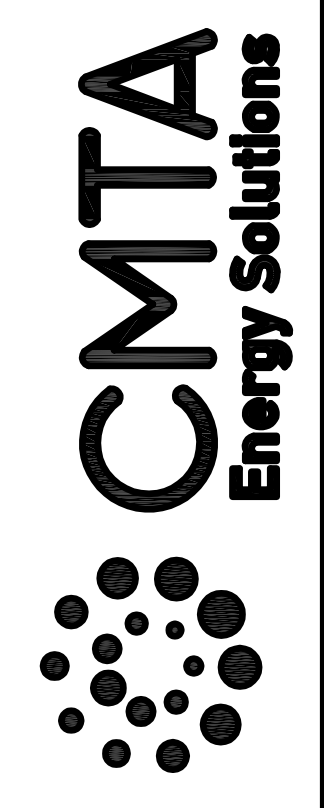
PARTIAL FIRST FLOOR PLAN (AREA C) - MECHANICAL DEMOLITION
SCALE: 1/8" = 1'-0"

1
M4-2.1C



BID SET

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Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
SHOPVILLE ELEMENTARY SCHOOL
SOMERSET, KY

ROOF-MECHANICAL DEMOLITION

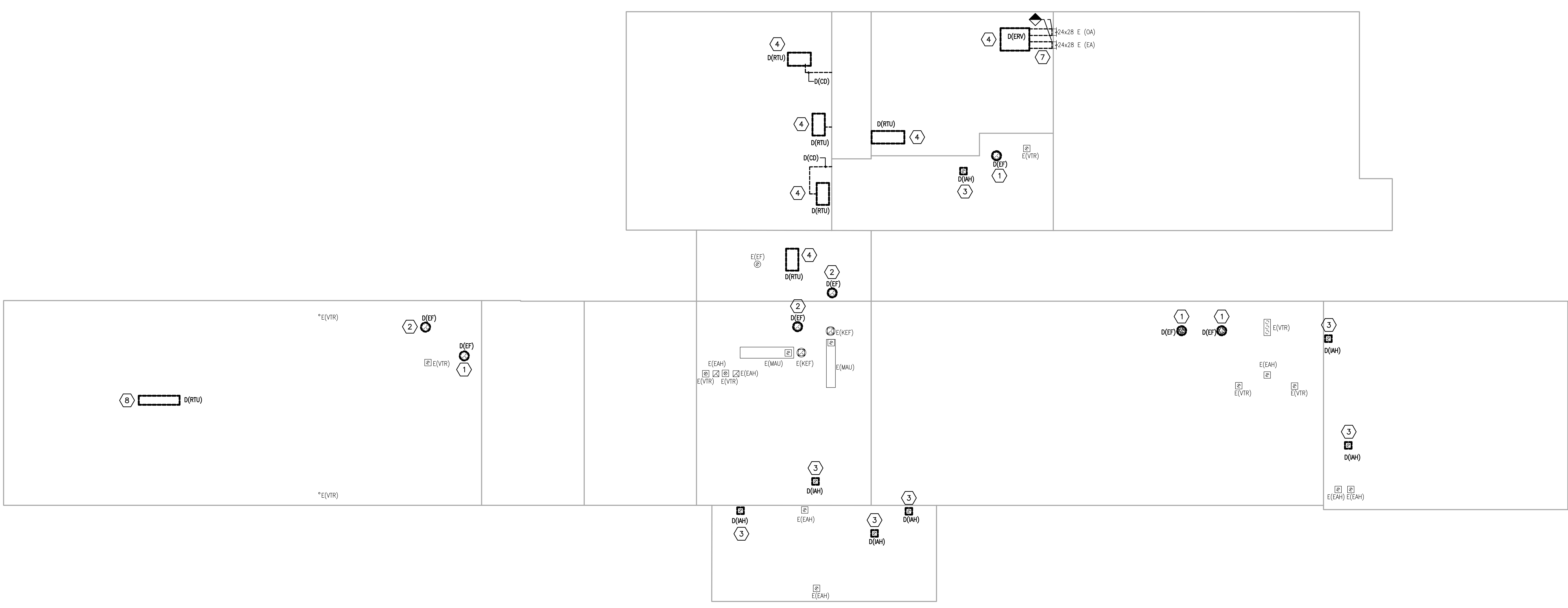
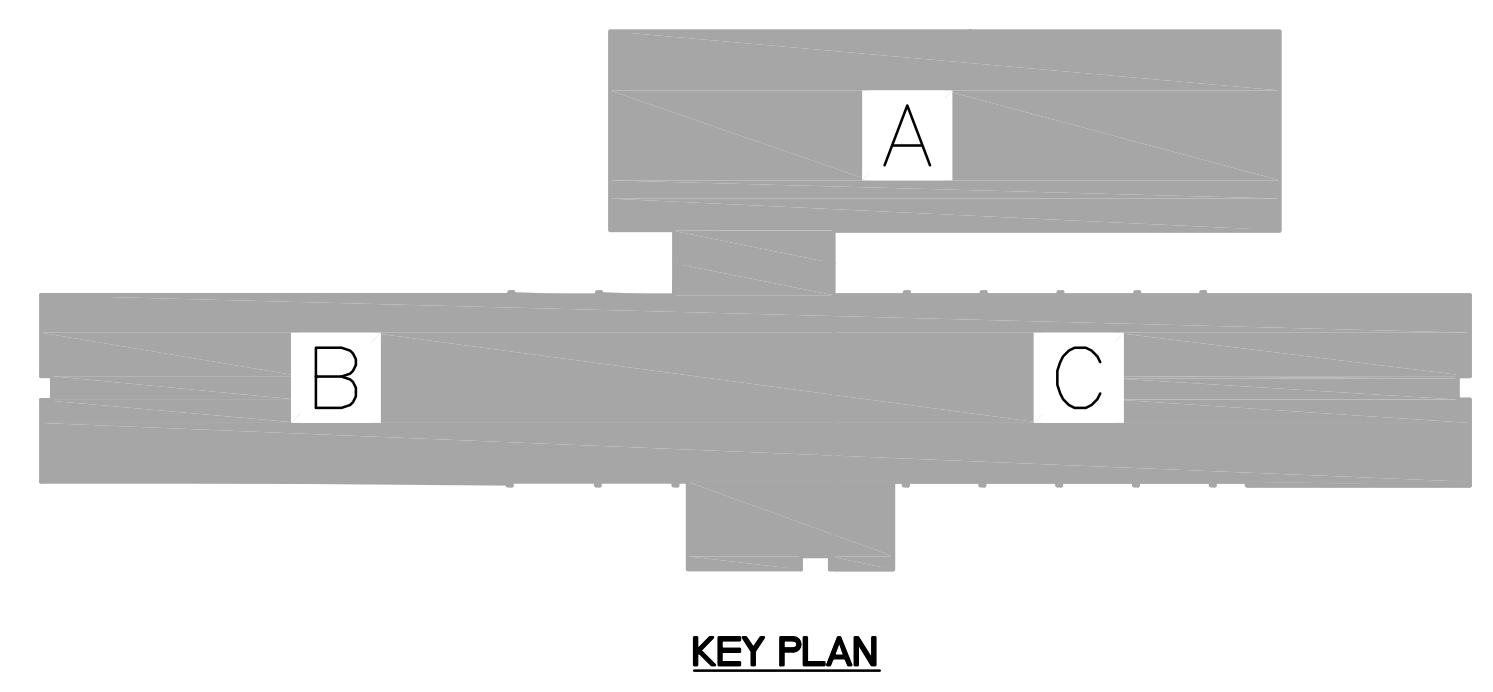
REVISIONS

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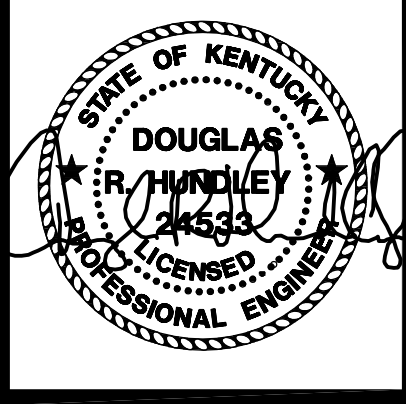
M4-
2.2

- MECHANICAL DEMOLITION NOTES - ROOF: #
- EXISTING EXHAUST FAN TO BE REMOVED COMPLETELY, INCLUDING ALL MECHANICAL, ELECTRICAL, AND CONTROLS CONNECTIONS (DISCONNECTS/SWITCHES/ETC). EXISTING ROOF CURB AND DUCTWORK RISER TO REMAIN.
 - EXISTING EXHAUST FAN TO BE REMOVED COMPLETELY, INCLUDING ALL DUCTWORK, MECHANICAL, ELECTRICAL AND CONTROLS CONNECTIONS (DISCONNECTS/SWITCHES/ETC). THE ROOF CURB IS TO BE CAPPED, REFER TO DETAIL ON SHEET M-6.2.
 - EXISTING RELIEF/EXHAUST/INTAKE AIR VENT TO BE REMOVED COMPLETELY. THE ROOF CURB IS TO BE CAPPED, REFER TO DETAIL ON SHEET M-6.2.
 - EXISTING ROOFTOP UNIT TO BE REMOVED COMPLETELY INCLUDING ALL ASSOCIATED PIPING, ELECTRICAL AND CONTROLS CONNECTIONS. EXISTING ROOF CURB TO REMAIN.
 - EXISTING CONDENSING UNIT TO BE REMOVED COMPLETELY, INCLUDING ALL PIPING, ELECTRICAL AND CONTROLS CONNECTIONS. EXISTING EQUIPMENT CURB/RAILS TO BE REMOVED COMPLETELY. PATCH ROOF AS REQUIRED.
 - REMOVE/CAP EXISTING PIPING PORTAL AND EQUIPMENT RAILS IF NOT BEING REUSED. PATCH ROOF AS REQUIRED.
 - EXISTING DUCTWORK TO BE REMOVED COMPLETELY, INCLUDING ALL SUPPORTS.
 - EXISTING ROOFTOP UNIT TO BE REMOVED COMPLETELY INCLUDING ALL ASSOCIATED PIPING, ELECTRICAL AND CONTROLS CONNECTIONS. EXISTING ROOF CURB AND DUCTWORK RISERS TO BE REMOVED. PATCH ROOF AS REQUIRED.



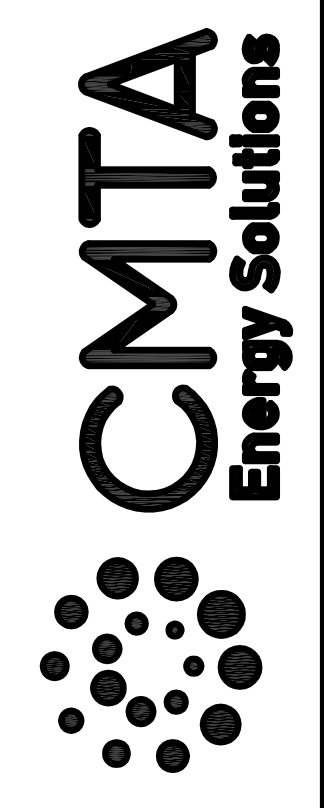
ROOF PLAN - MECHANICAL DEMOLITION
SCALE: 1/16" = 1'-0"

1
M4-2.2



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Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
SHOPVILLE ELEMENTARY SCHOOL
SOMERSET, KY
MECHANICAL - AREA A

NO.	DATE	DESCRIPTION

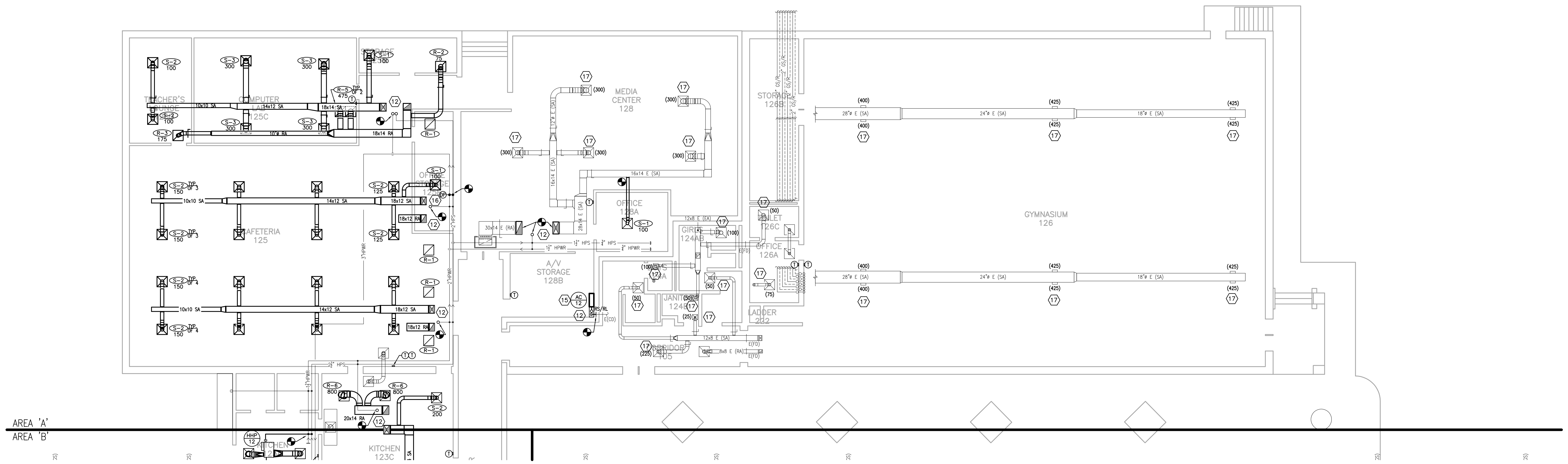
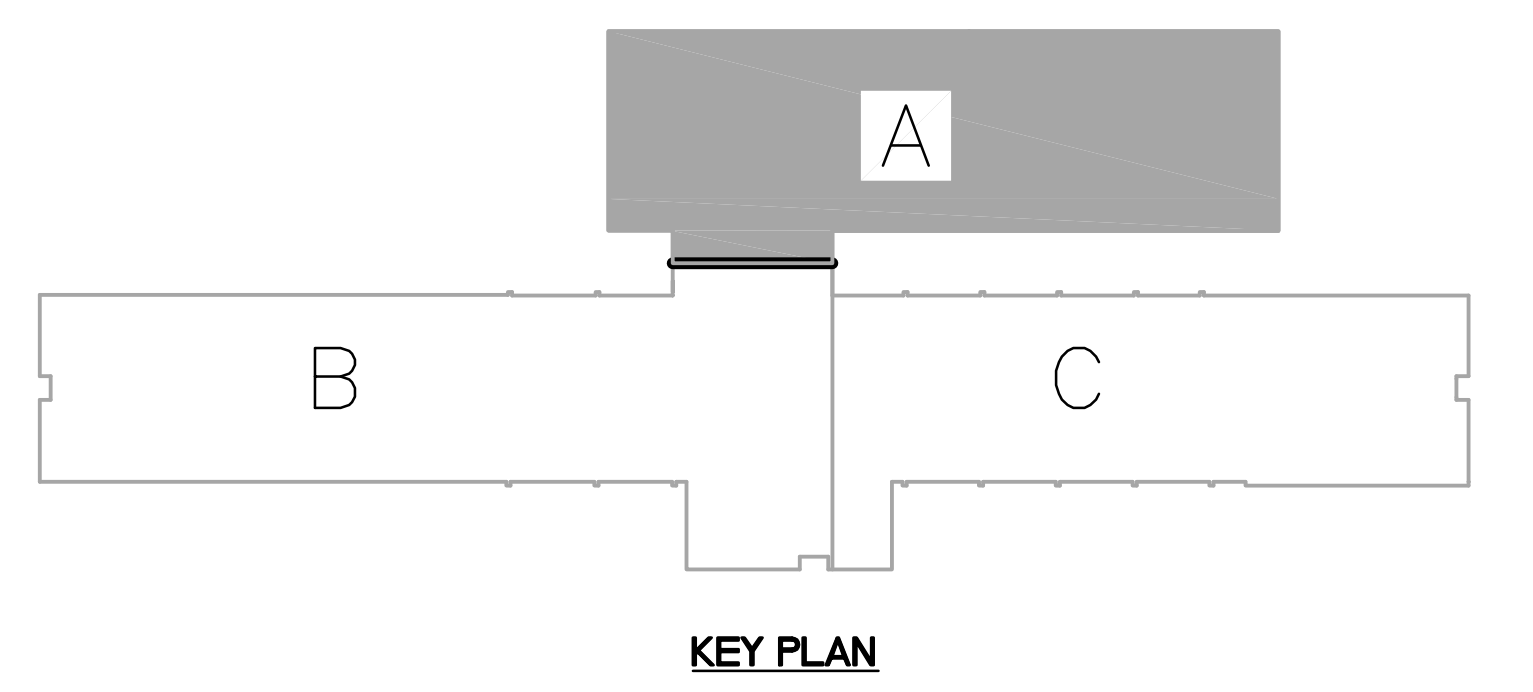
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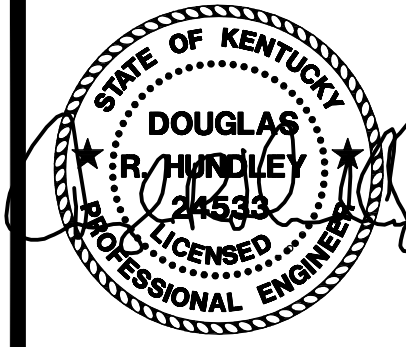
M4-
3.1A

- GENERAL NOTES: (X)
- EXISTING GEOTHERMAL PIPING ROUTED UNDERSLAB TO EXISTING WELLFIELD IS TO REMAIN. PROVIDE INTERIOR SHUT-OFF VALVES AS REQUIRED. REFER TO DETAILS FOR MORE INFORMATION.
 - CONTRACTOR RESPONSIBLE FOR VERIFYING PIPE FLOW DIRECTION AND PIPE SIZE FOR CONNECTION.
 - HEAT PUMP INSTALLATION - REFER TO DETAILS ON SHEET M-6.1 FOR PIPE CHASE INFORMATION AND VALVE KIT INFORMATION/ LOCATIONS.
 - PROVIDE A HIGH EFFICIENCY TAKE-OFF AND VOLUME DAMPER AT EACH GRILLE, REGISTER, AND DIFFUSER BRANCH RUNOUT, TYPICAL OF ALL UNLESS DAMPER LOCATION IS SHOWN ON FLOOR PLANS. REFER TO THE DETAIL ON SHEET M-6.0 FOR SPECIFIC REQUIREMENTS.
 - R-1 GRILLE; REFER TO THE RETURN AIR CANOPY DETAIL ON SHEET M-6.0.
 - FOR ALL DUCTS OPEN TO RETURN SPACE, PROVIDE A 1/2" MESH SCREEN ON THE DUCT OPENING.
 - COORDINATE INSTALLATION OF DUCT MOUNTED SMOKE DETECTORS WITH ELECTRICAL CONTRACTOR.
 - FIRE DAMPER; REFER TO THE DETAIL ON SHEET M-6.0.
 - BALANCE ALL DAMPERS (NEW AND EXISTING) TO CFM LISTED ON THE DRAWING - COORDINATE WITH TAB CONTRACTOR.
 - TEMPERATURE CONTROL PANELS (TCP) - COORDINATE LOCATION AND REQUIREMENTS WITH TCP AND ELECTRICAL CONTRACTOR.
 - ALL GRILLES THAT ARE TO REMAIN SHALL BE CLEANED.

- MECHANICAL NOTES: (#)
- PROVIDE A 8"x8" SHEET METAL SLEEVE IN WALL ABOVE THE CEILING FOR RETURN AIR PATH.
 - DISCHARGE 8" Ø DUCT ABOVE CEILING.
 - PROVIDE ESCUTCHEON PLATE AT DUCT PENETRATION.
 - EXPOSED DUCTWORK/PIPING TO HAVE CANAS JACKET AND PAINTED. ALL ASSOCIATED STRUCTURAL/PILING BRACING/HANGERS/SUPPORTS TO BE PAINTED TO MATCH ADJACENT SURFACES.
 - PROVIDE PAINT GRIP DUCTWORK TO ALLOW EXPOSED DUCTWORK TO BE PAINTED. ALL ASSOCIATED STRUCTURAL BRACING/HANGERS TO BE PAINTED TO MATCH ADJACENT SURFACES.
 - EXPOSED ROUND/OVAL DUCTWORK TO BE DOUBLE WALL DUCT AND PAINTED. ALL STRUCTURAL BRACING FOR DUCTWORK TO BE PAINTED TO MATCH EXISTING SURFACES. NO DUCT SEALANT TO BE USED ON DUCTWORK TO BE PAINTED. SUPPORT WITH AIRCRAFT CABLES AND SELF-TIGHTENING LOCKS.
 - DIFFUSERS SHALL BE INSTALLED AT A 45° ANGLE TOWARDS THE FLOOR. TYPICAL OF ALL DIFFUSERS.
 - PIPING TO BE ROUTED IN EXTERIOR SOFFIT AND AS HIGH AS POSSIBLE. COORDINATE SOFFIT WITH GENERAL CONTRACTOR. REFER TO DETAIL FOR FURTHER INFORMATION.
 - DUCTWORK TO BE ROUTED IN SOFFIT. COORDINATE SOFFIT WITH GENERAL CONTRACTOR. REFER TO DETAIL FOR FURTHER INFORMATION.
 - PROVIDE BELLMOUTH FITTING AND 1/2" ALUMINUM MESH BIRDSCREEN AT OPEN RETURN AIR DUCT.
 - DUCT SMOKE DETECTOR. COORDINATE WITH THE ELECTRICAL CONTRACTOR. TYPICAL OF ALL.
 - DUCTWORK/PIPING CONTINUES UP THROUGH ROOF. REFER TO THE ROOF PLAN FOR CONTINUATION.
 - EXISTING CHASE TO BE EXTENDED AS REQUIRED TO ALIGN WITH NEW CABINET UNIT HEATER PIPE CHASE. COORDINATE WITH THE GENERAL CONTRACTOR.
 - ROUTE 8" Ø EXHAUST DUCT THROUGH ROOF AND PROVIDE WEATHER HOOD AT TERMINATION.
 - COORDINATE MOUNTING HEIGHT OF AC UNIT WITH GENERAL CONTRACTOR. ROUTE REFRIGERANT PIPING UP TO ROOF MOUNTED CONDENSING UNIT THROUGH NEW PIPING PORTAL. REFER TO ROOF PLAN FOR ADDITIONAL INFORMATION. FASTEN CONDENSATE TO WALL WITH TWO HOLE STRAP AND SPILL TO GRADE, UNLESS NOTED OTHERWISE.
 - INSTALL WATER DIFFERENTIAL PRESSURE SENSOR ABOVE CEILING AT T HIS LOCATION. PROVIDE LAMACOID PLATE ON CEILING GRID AT SENSOR LOCATION. REFER TO SPECIFICATIONS FOR LABELING REQUIREMENTS. INSTALL PRESSURE SAMPLING LINES IN PIPING WHERE INDICATED.
 - BALANCE EXISTING GRILLE, REGISTER, OR DIFFUSER TO CFM INDICATED ON THE FLOOR PLANS. TYPICAL.
 - BALANCE MANUAL VOLUME DAMPERS TO CFM INDICATED ON THE FLOOR PLAN. TYPICAL.

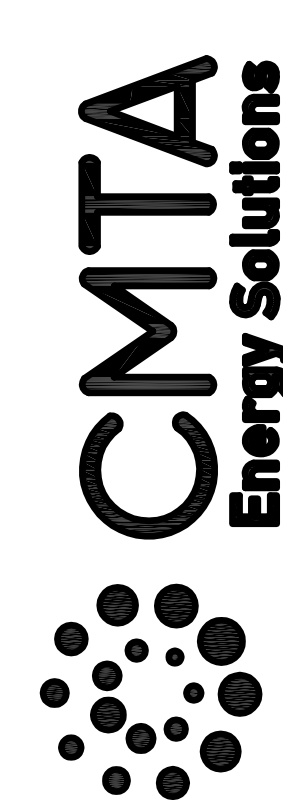


PARTIAL FIRST FLOOR PLAN (AREA A) - MECHANICAL
SCALE: 1/8" = 1'-0"



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Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
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SOMERSET, KY
MECHANICAL - AREA B

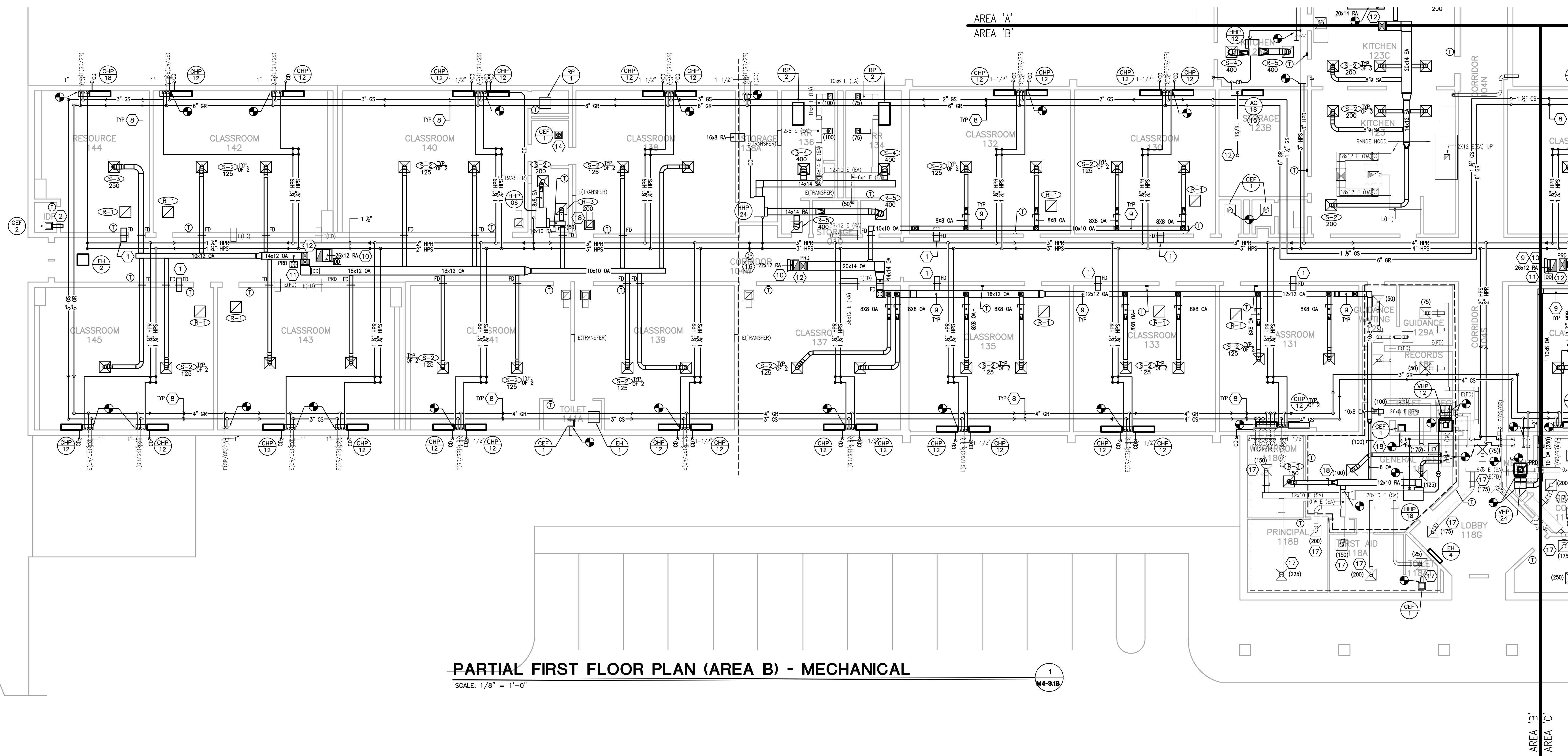
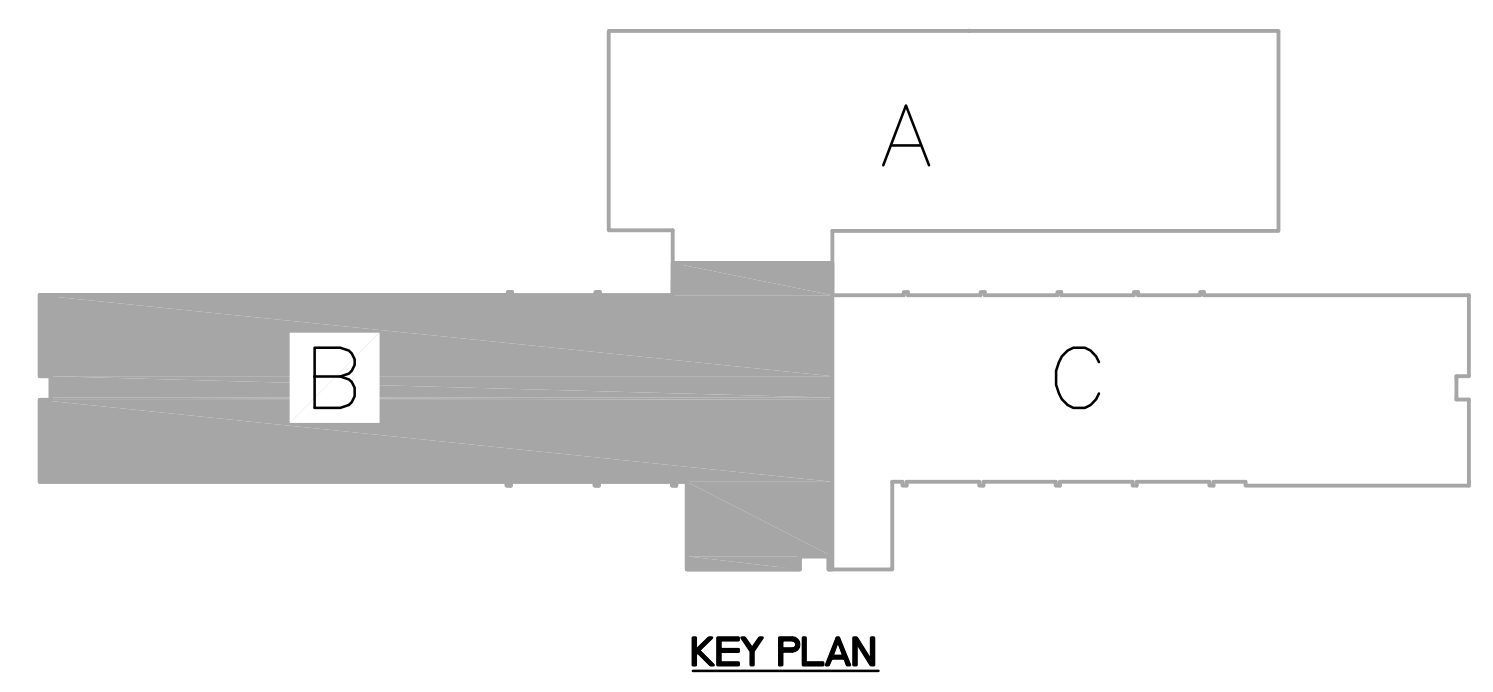
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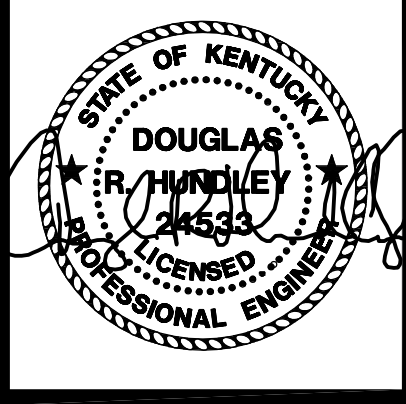
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M4-
3.1B

- GENERAL NOTES: (X)
- EXISTING GEOTHERMAL PIPING ROUTED UNDERSLAB TO EXISTING WELLFIELD IS TO REMAIN. PROVIDE INTERIOR SHUT-OFF VALVES AS REQUIRED. REFER TO DETAILS FOR MORE INFORMATION.
 - CONTRACTOR RESPONSIBLE FOR VERIFYING PIPE FLOW DIRECTION AND PIPE SIZE FOR CONNECTION.
 - HEAT PUMP INSTALLATION - REFER TO DETAILS ON SHEET M-6.1 FOR PIPE CHASE INFORMATION AND VALVE KIT INFORMATION/ LOCATIONS.
 - PROVIDE A HIGH EFFICIENCY TAKE-OFF AND VOLUME DAMPER AT EACH GRILLE, REGISTER, AND DIFFUSER BRANCH RUNOUT, TYPICAL OF ALL UNLESS DAMPER LOCATION IS SHOWN ON FLOOR PLANS. REFER TO THE DETAIL ON SHEET M-6.0 FOR SPECIFIC REQUIREMENTS.
 - R-1 GRILLE; REFER TO THE RETURN AIR CANOPY DETAIL ON SHEET M-6.0.
 - FOR ALL DUCTS OPEN TO PLENUM SPACE, PROVIDE A 1/2" MESH SCREEN ON THE DUCT OPENING.
 - COORDINATE INSTALLATION OF DUCT MOUNTED SMOKE DETECTORS WITH ELECTRICAL CONTRACTOR.
 - FIRE DAMPER; REFER TO THE DETAIL ON SHEET M-6.0.
 - BALANCE ALL DAMPERS (NEW AND EXISTING) TO CFM LISTED ON THE DRAWING - COORDINATE WITH TAB CONTRACTOR.
 - TEMPERATURE CONTROL PANELS (TCP) - COORDINATE LOCATION AND REQUIREMENTS WITH TCC AND ELECTRICAL CONTRACTOR.
 - ALL GRILLES THAT ARE TO REMAIN SHALL BE CLEANED.

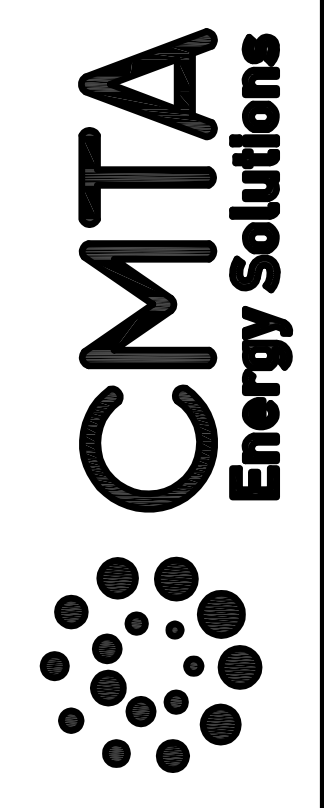
- MECHANICAL NOTES: (#)
- PROVIDE A 6"x6" SHEET METAL SLEEVE IN WALL ABOVE THE CEILING FOR RETURN AIR PATH.
 - DISCHARGE 8" Ø DUCT ABOVE CEILING.
 - PROVIDE ESCUTCHEON PLATE AT DUCT PENETRATION.
 - EXPOSED DUCTWORK/PIPING TO HAVE CANNS JACKET AND PAINTED. ALL ASSOCIATED STRUCTURAL/PIPING BRACING/HANGERS/SUPPORTS TO BE PAINTED TO MATCH ADJACENT SURFACES.
 - PROVIDE PAINT GRIP DUCTWORK TO ALLOW EXPOSED DUCTWORK TO BE PAINTED. ALL ASSOCIATED STRUCTURAL BRACING/HANGERS/SUPPORTS TO BE PAINTED TO MATCH ADJACENT SURFACES.
 - EXPOSED ROUND/OVAL DUCTWORK TO BE DOUBLE WALL DUCT AND PAINTED. ALL STRUCTURAL BRACING FOR DUCTWORK TO BE PAINTED TO MATCH EXISTING SURFACES. NO DUCT SEALANT TO BE USED ON DUCTWORK TO BE PAINTED. SUPPORT WITH AIRCRAFT CABLES AND SELF-TIGHTENING LOCKS.
 - DIFFUSERS SHALL BE INSTALLED AT A 45° ANGLE TOWARDS THE FLOOR. TYPICAL OF ALL DIFFUSERS.
 - PIPING TO BE ROUTED IN EXTERIOR SOFFIT AND AS HIGH AS POSSIBLE. COORDINATE SOFFIT WITH GENERAL CONTRACTOR. REFER TO DETAIL FOR FURTHER INFORMATION.
 - DUCTWORK TO BE ROUTED IN SOFFIT. COORDINATE SOFFIT WITH GENERAL CONTRACTOR. REFER TO DETAIL FOR FURTHER INFORMATION.
 - PROVIDE BELLMOUTH FITTING AND 1/2" ALUMINUM MESH BIRDSCREEN AT OPEN RETURN AIR DUCT.
 - DUCT SMOKE DETECTOR. COORDINATE WITH THE ELECTRICAL CONTRACTOR. TYPICAL OF ALL.
 - DUCTWORK/PIPING CONTINUES UP THROUGH ROOF. REFER TO THE ROOF PLAN FOR CONTINUATION.
 - EXISTING CHASE TO BE EXTENDED AS REQUIRED TO ALIGN WITH NEW CABINET UNIT HEATER PIPE CHASE. COORDINATE WITH THE GENERAL CONTRACTOR.
 - ROUTE 8" Ø EXHAUST DUCT THROUGH ROOF AND PROVIDE WEATHER HOOD AT TERMINATION.
 - COORDINATE MOUNTING HEIGHT OF AC UNIT WITH GENERAL CONTRACTOR. ROUTE REFRIGERANT PIPING UP TO ROOF MOUNTED CONDENSING UNIT THROUGH NEW PIPING PORTAL. REFER TO ROOF PLAN FOR ADDITIONAL INFORMATION. FASTEN CONDENSATE TO WALL WITH TWO HOLE STRAP AND SPILL TO GRADE, UNLESS NOTED OTHERWISE.
 - INSTALL WATER DIFFERENTIAL PRESSURE SENSOR ABOVE CEILING AT T HIS LOCATION. PROVIDE LAMACOID PLATE ON CEILING GRID AT SENSOR LOCATION. REFER TO SPECIFICATIONS FOR LABELING REQUIREMENTS. INSTALL PRESSURE SAMPLING LINES IN PIPING WHERE INDICATED.
 - BALANCE EXISTING GRILLE, REGISTER, OR DIFFUSER TO CFM INDICATED ON THE FLOOR PLANS. TYPICAL.
 - BALANCE MANUAL VOLUME DAMPERS TO CFM INDICATED ON THE FLOOR PLAN. TYPICAL.





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Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
SHOPVILLE ELEMENTARY SCHOOL
SOMERSET, KY
MECHANICAL - AREA C

NO.	REVISIONS

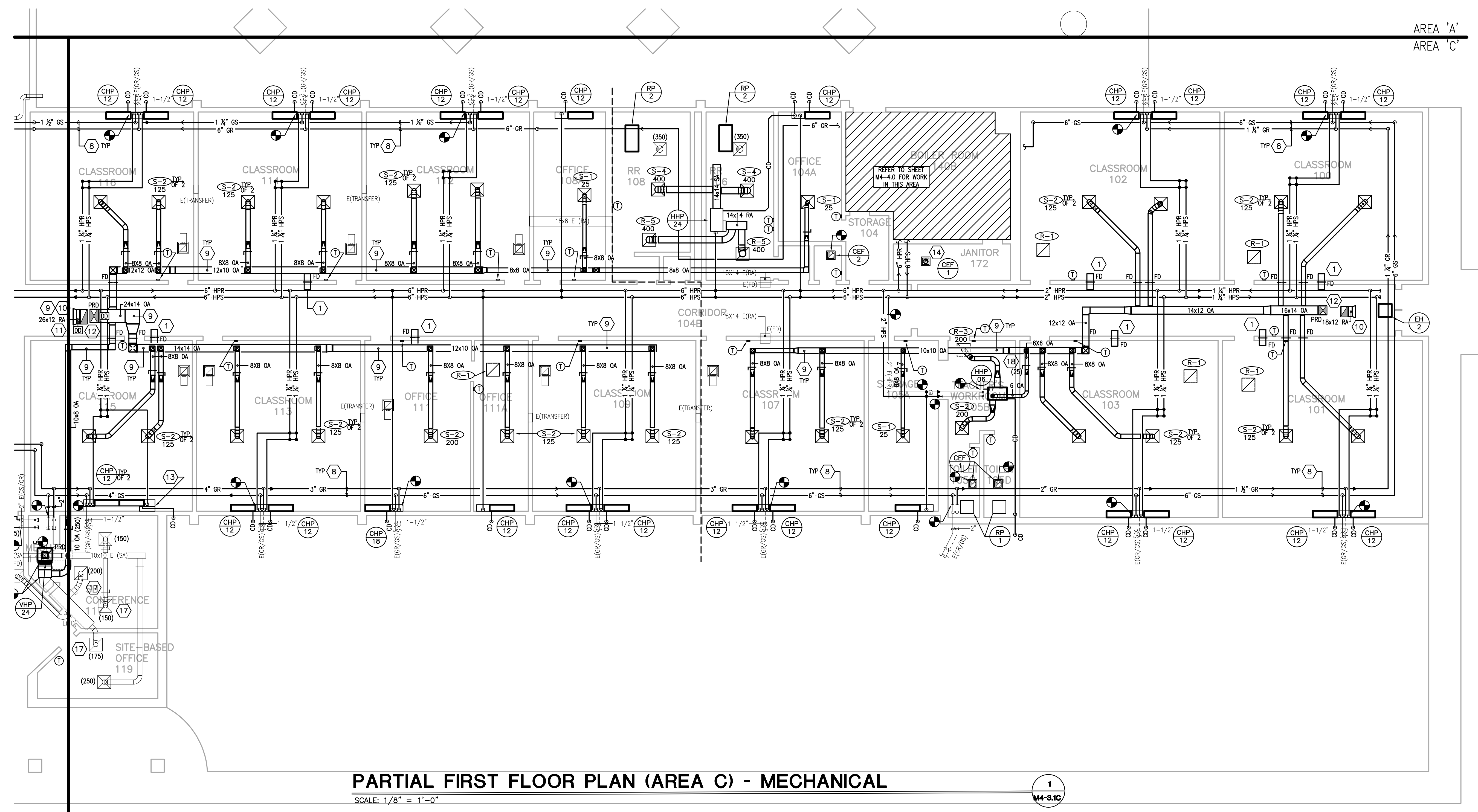
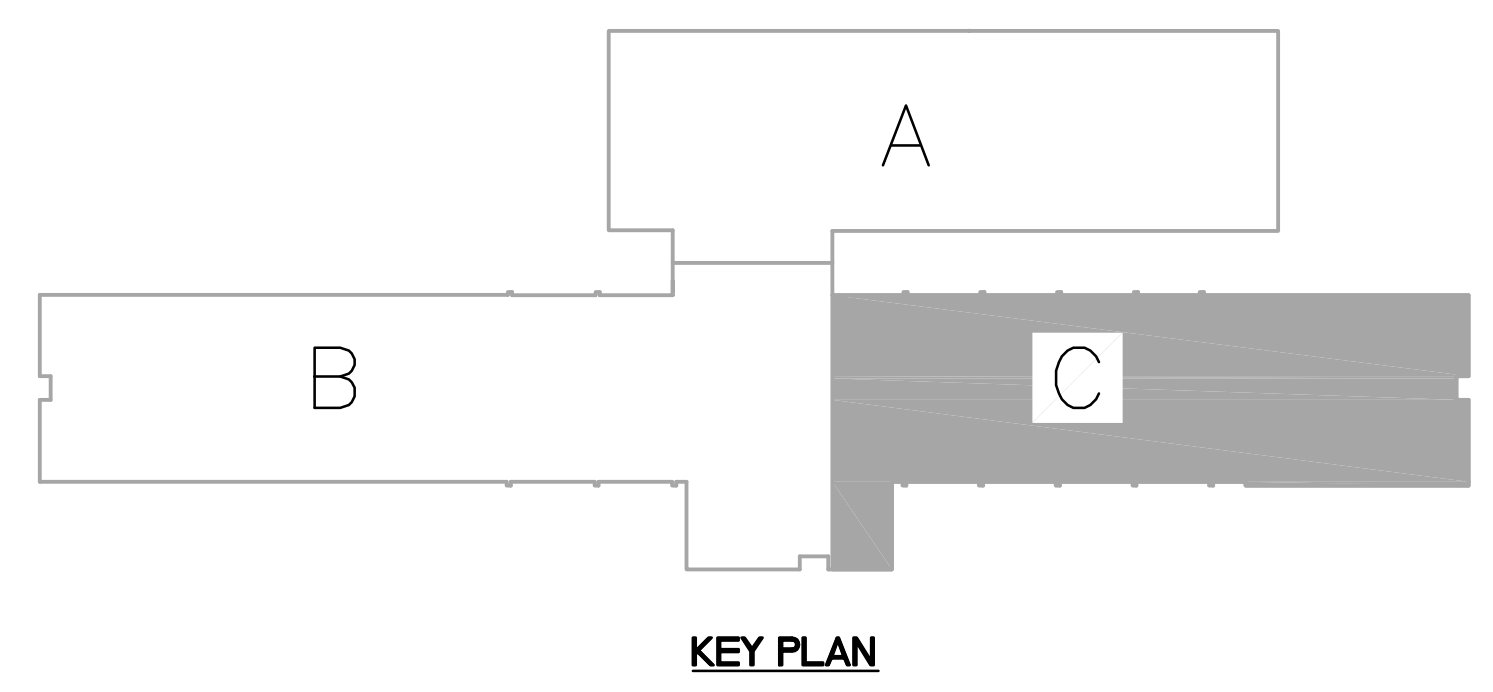
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M4-
3.1C

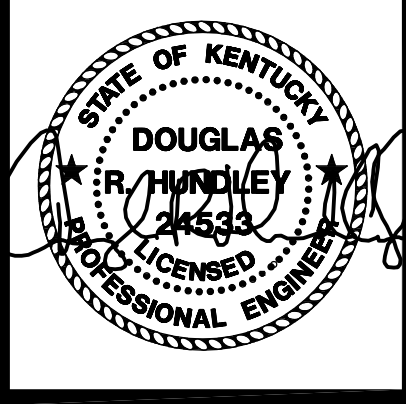
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 - R-1 GRILLE; REFER TO THE RETURN AIR CANOPY DETAIL ON SHEET M-6.0.
 - FOR ALL DUCTS OPEN TO PLENUM SPACE, PROVIDE A 1/2" MESH SCREEN ON THE DUCT OPENING.
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- MECHANICAL NOTES: (#)
- PROVIDE A 6"x6" SHEET METAL SLEEVE IN WALL ABOVE THE CEILING FOR RETURN AIR PATH.
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 - EXPOSED DUCTWORK/PIPING TO HAVE CANVAS JACKET AND PAINTED. ALL ASSOCIATED STRUCTURAL/PIPING BRACING/HANGERS/SUPPORTS TO BE PAINTED TO MATCH ADJACENT SURFACES.
 - PROVIDE PAINT GRIP DUCTWORK TO ALLOW EXPOSED DUCTWORK TO BE PAINTED. ALL ASSOCIATED STRUCTURAL BRACING/HANGERS/SUPPORTS TO BE PAINTED TO MATCH ADJACENT SURFACES.
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 - INSTALL WATER DIFFERENTIAL PRESSURE SENSOR ABOVE CEILING AT T HIS LOCATION. PROVIDE LAMACOID PLATE ON CEILING GRID AT SENSOR LOCATION. REFER TO SPECIFICATIONS FOR LABELING REQUIREMENTS. INSTALL PRESSURE SAMPLING LINES IN PIPING WHERE INDICATED.
 - BALANCE EXISTING GRILLE, REGISTER, OR DIFFUSER TO CFM INDICATED ON THE FLOOR PLANS. TYPICAL.
 - BALANCE MANUAL VOLUME DAMPERS TO CFM INDICATED ON THE FLOOR PLAN. TYPICAL.



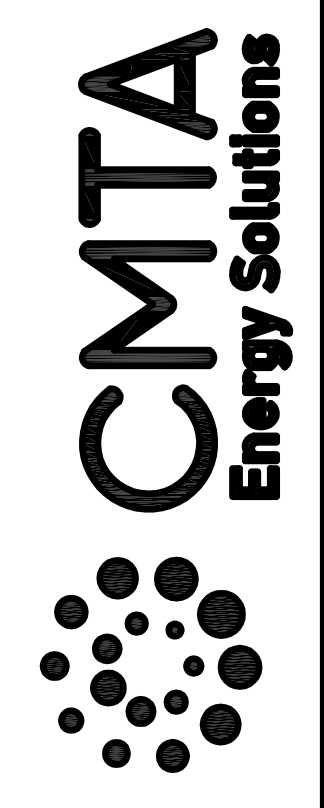
PARTIAL FIRST FLOOR PLAN (AREA C) - MECHANICAL
SCALE: 1/8" = 1'-0"

1
M4-3.1C



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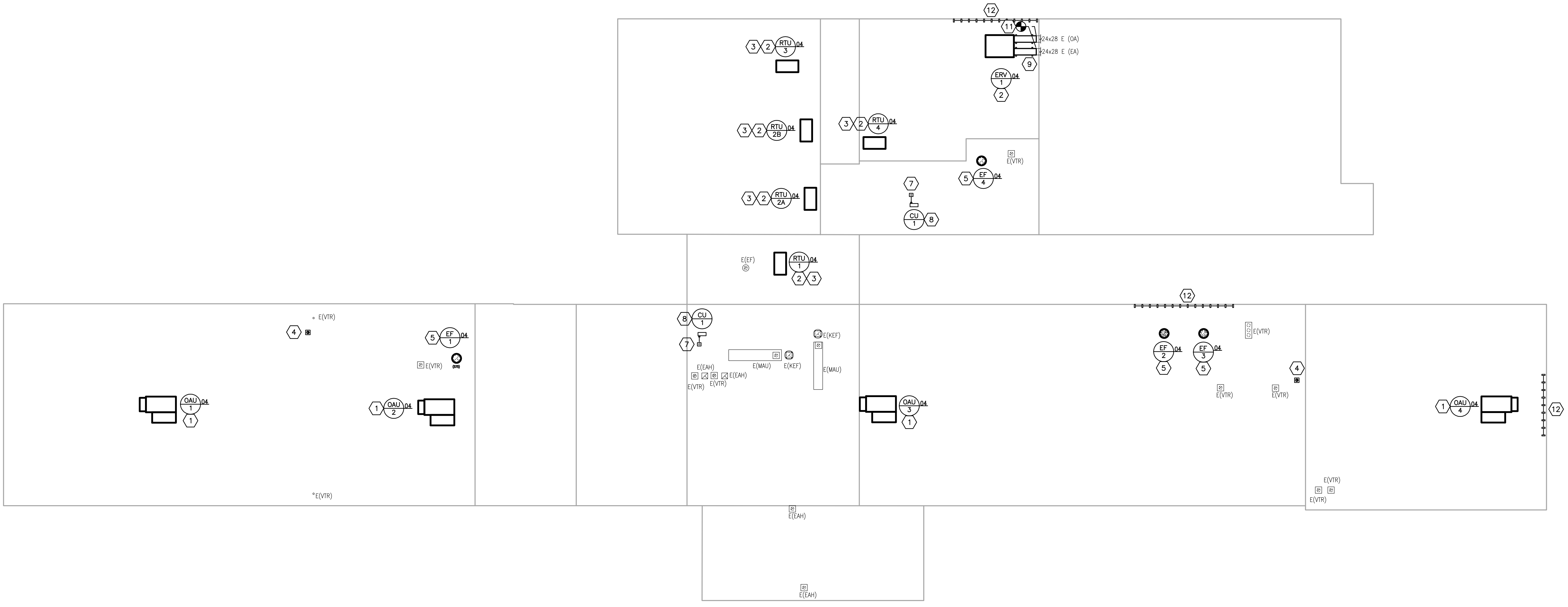
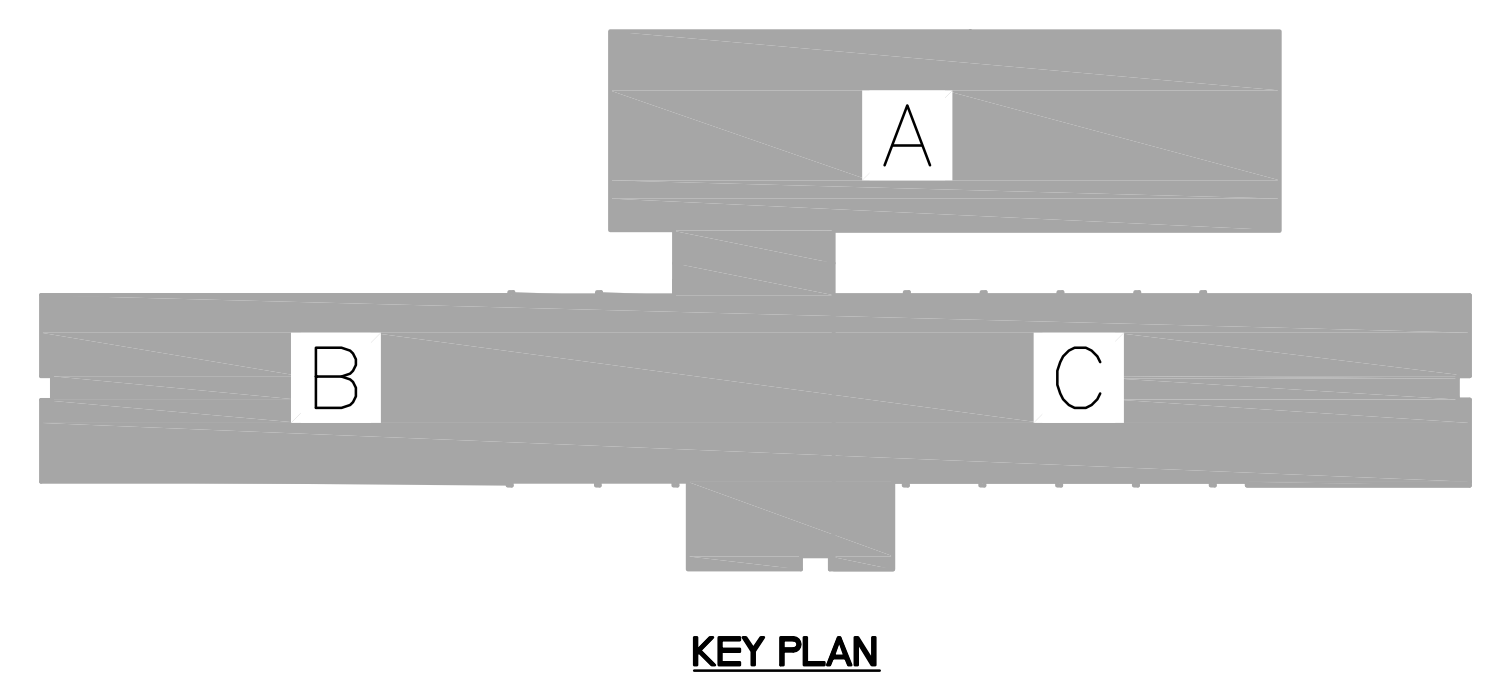
Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
SHOPVILLE ELEMENTARY SCHOOL
SOMERSET, KY
ROOF-MECHANICAL

REVISIONS
DATE: 03.11.2022
DRAWN: EM, LA, HC, NT
CHECKED: CG

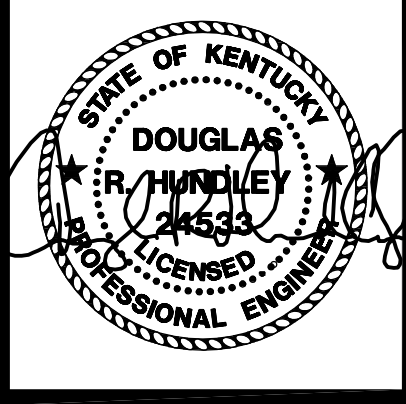
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3.2

- MECHANICAL NOTES - ROOF: #
1. NEW ROOF TOP UNIT INSTALLED ON NEW CURB. CUT/PATCH/FLASH ROOF AS REQUIRED. REFER TO DETAILS ON SHEET M-6.2 FOR ADDITIONAL INFORMATION. UNIT CONDENSATE SHALL BE SPILLED TO NEAREST ROOF DRAIN.
 2. NEW ROOF TOP UNIT INSTALLED ON EXISTING CURB. PROVIDE NEW CURB ADAPTER WITH CURB CAP, AND PLENUM CURB. REFER TO DETAILS ON SHEET M-6.2 FOR ADDITIONAL INFORMATION. UNIT CONDENSATE SHALL BE SPILLED TO NEAREST FLOOR DRAIN.
 3. REFER TO GEOTHERMAL ROOFTOP UNIT PIPING SCHEMATIC ON SHEET M-6.2 FOR PIPING REQUIREMENTS. UNIT CONDENSATE SHALL BE SPILLED TO NEAREST ROOF DRAIN.
 4. NEW EXHAUST WEATHER HOOD. REFER TO FLOOR PLANS FOR CONTINUATION.
 14. NEW FAN/HOOD INSTALLED ON AN EXISTING CURB. PROVIDE CURB ADAPTER AS REQUIRED. TRANSITION DUCTWORK TO FAN/HOOD OPENING AS REQUIRED.
 15. NEW FAN/HOOD INSTALLED ON A NEW CURB. TRANSITION DUCTWORK TO FAN/HOOD OPENING AS REQUIRED. CUT/PATCH/FLASH ROOF AS REQUIRED.
 16. ROUTE THE REFRIGERANT PIPING DOWN THROUGH A NEW ROOF CURB/PIPING PORTAL. PROVIDE A ROOF PRODUCTS MODEL RPPC-90 OR APPROVED EQUAL ROOF CURB WITH PIPE CHASE. REFER TO THE PIPE PORTAL DETAIL ON SHEET M-6.2 FOR ADDITIONAL INFORMATION. ROOF CURB SHALL BE 3'-0" AWAY FROM CONDENSING UNIT. REFRIGERANT PIPING SHALL BE SUPPORTED BY COOPER B-LINE C-SERIES ROOFTOP SUPPORTS.
 17. NEW CONDENSING UNIT MOUNTED ON A NEW ROOF CURB. REFER TO DETAIL ON DRAWING M-6.2. CUT/PATCH/FLASH ROOF AS REQUIRE.
 18. PROVIDE DUCT SUPPORTS 5'-0" ON CENTER. DUCT SUPPORTS SHALL BE DURA BLOCK DB_DS SERIES. CONTRACTOR TO VERIFY MAXIMUM HEIGHT REQUIRED. INSULATE DUCTWORK PER SPECIFICATION SECTION 202200.
 19. CUT/PATCH WALL AS REQUIRED FOR NEW DUCTWORK PENETRATION.
 20. SEAL AROUND DUCTWORK PENETRATION AT EXTERIOR WALL WEATHER TIGHT.
 21. NEW NON-PENETRATING OSHA COMPLIANT EDGE PROTECTION ROOF RAILING SYSTEM. BASIS OF DESIGN: BLUEWATER "SAFETRAIL 2000" SYSTEM. MAINTAIN EQUIPMENT CLEARANCES.
 22. APPROXIMATE EXISTING VTR LOCATION. ROUTE NEW PLUMBING VENT ACROSS ROOF AND TERMINATE NO LESS THAN 15' FROM ANY FRESH AIR INTAKE. PROVIDE AND INSTALL NO HUB COUPLING TO JOIN NEW VENT PIPE AND EXISTING VTR. PROVIDE AND INSTALL NEW PIPE SUPPORTS EVERY 3'-0" FOR NEW VENT PIPING. SUPPORTS SHALL BE COPPER, B-LINE, MODEL, C-SERIES OR EQUAL.

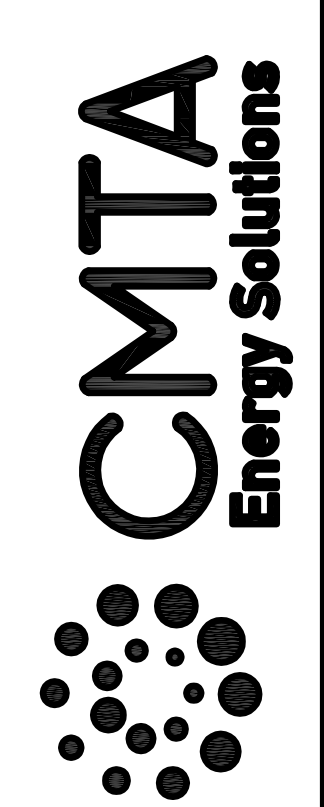


ROOF PLAN - MECHANICAL
SCALE: 1/16" = 1'-0"
1
M4-3.2

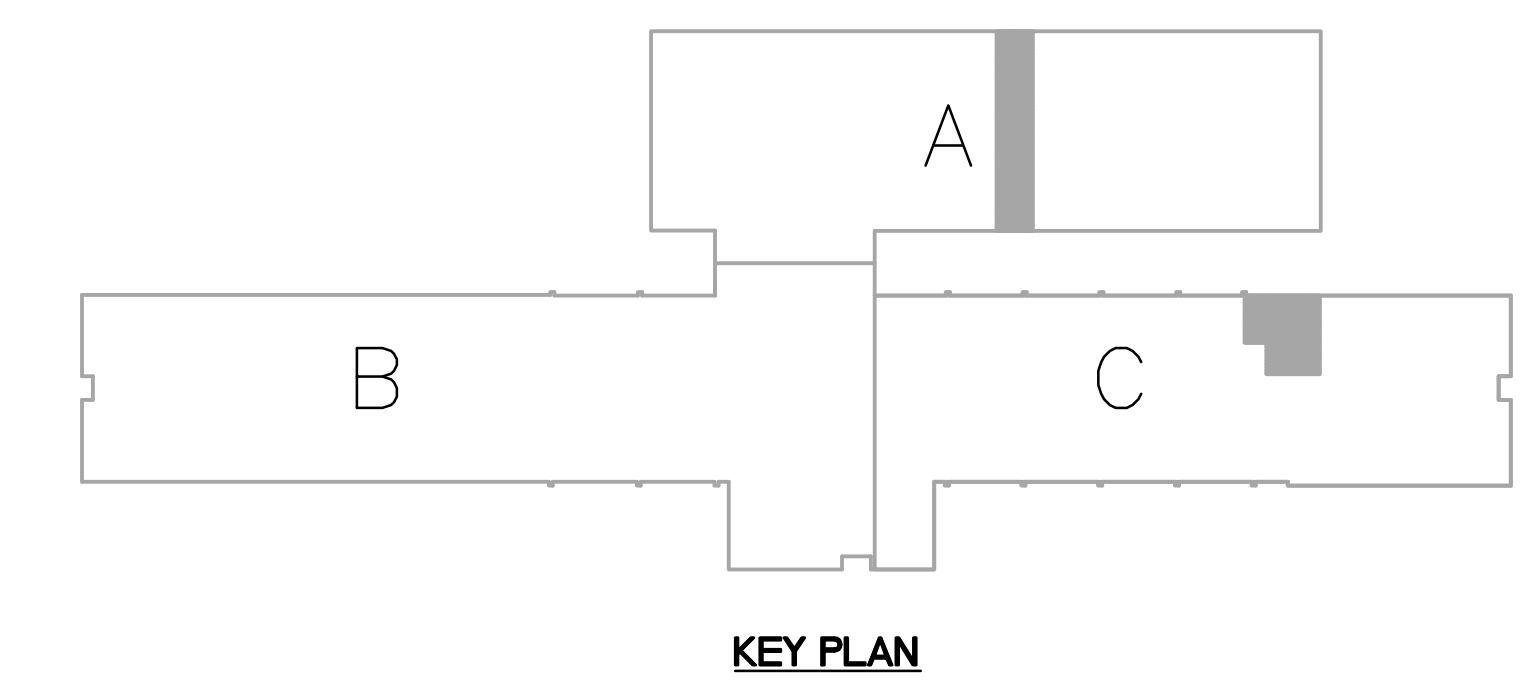
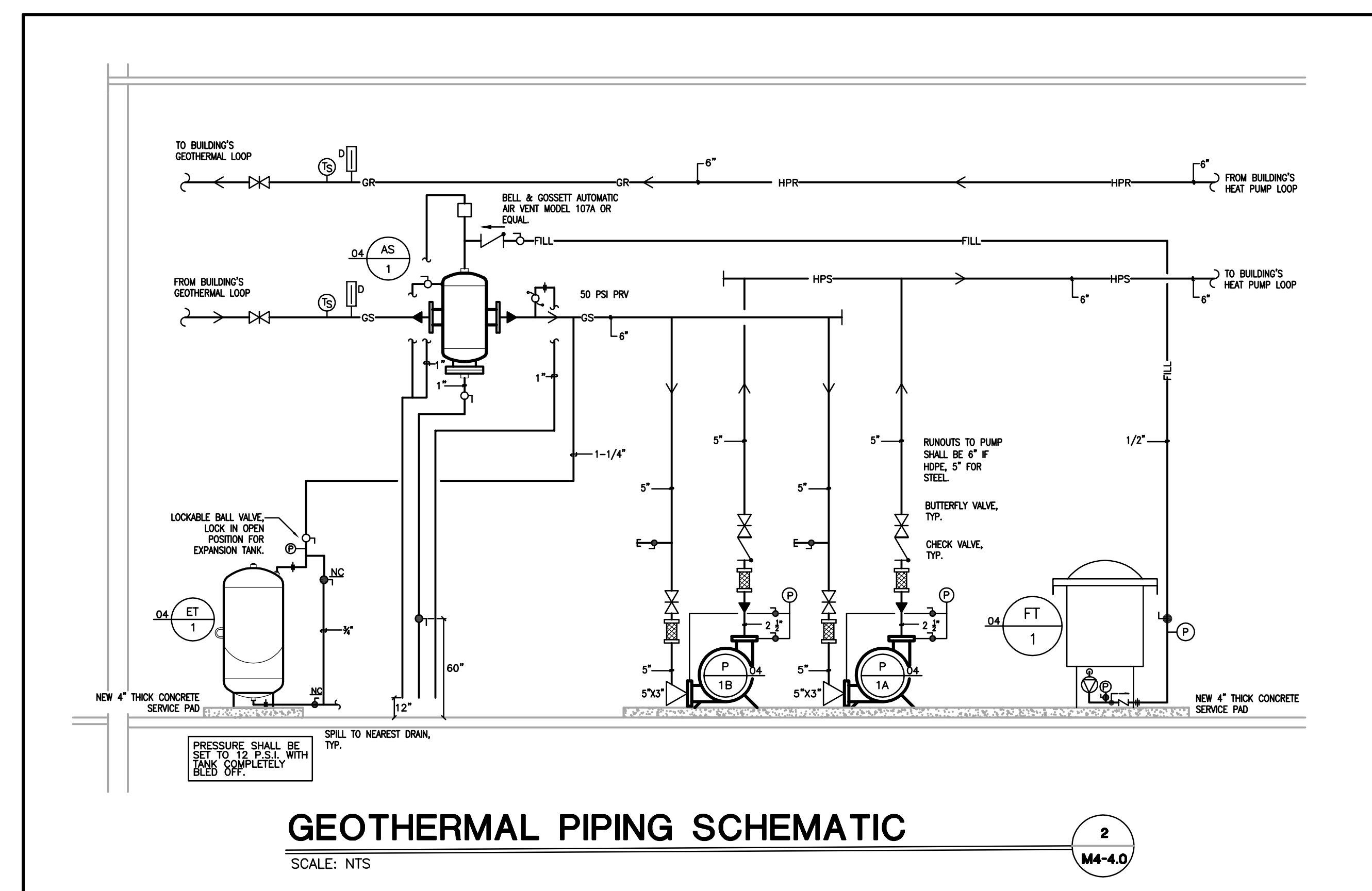
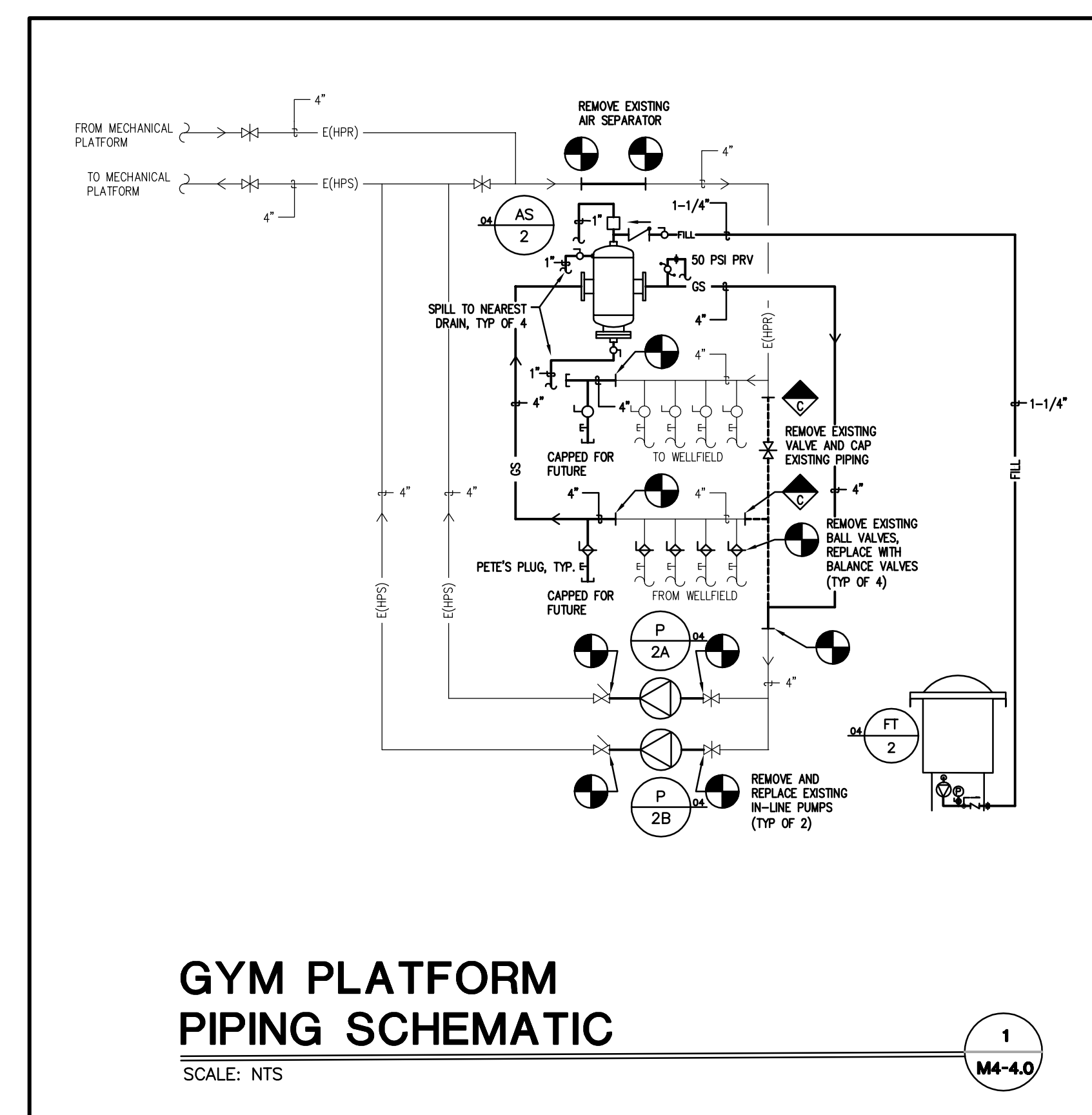


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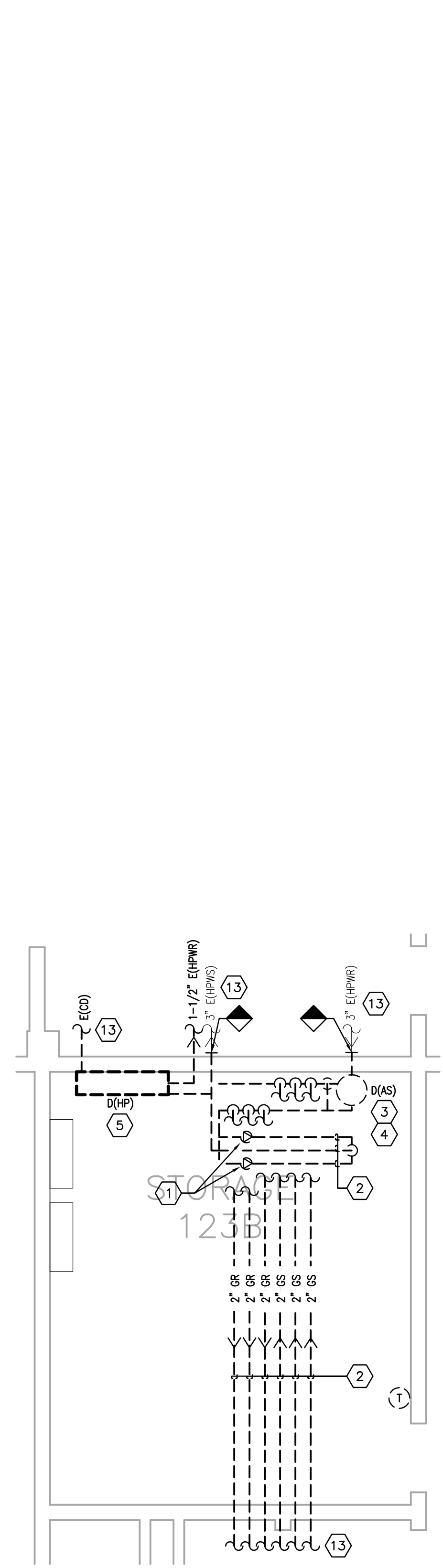
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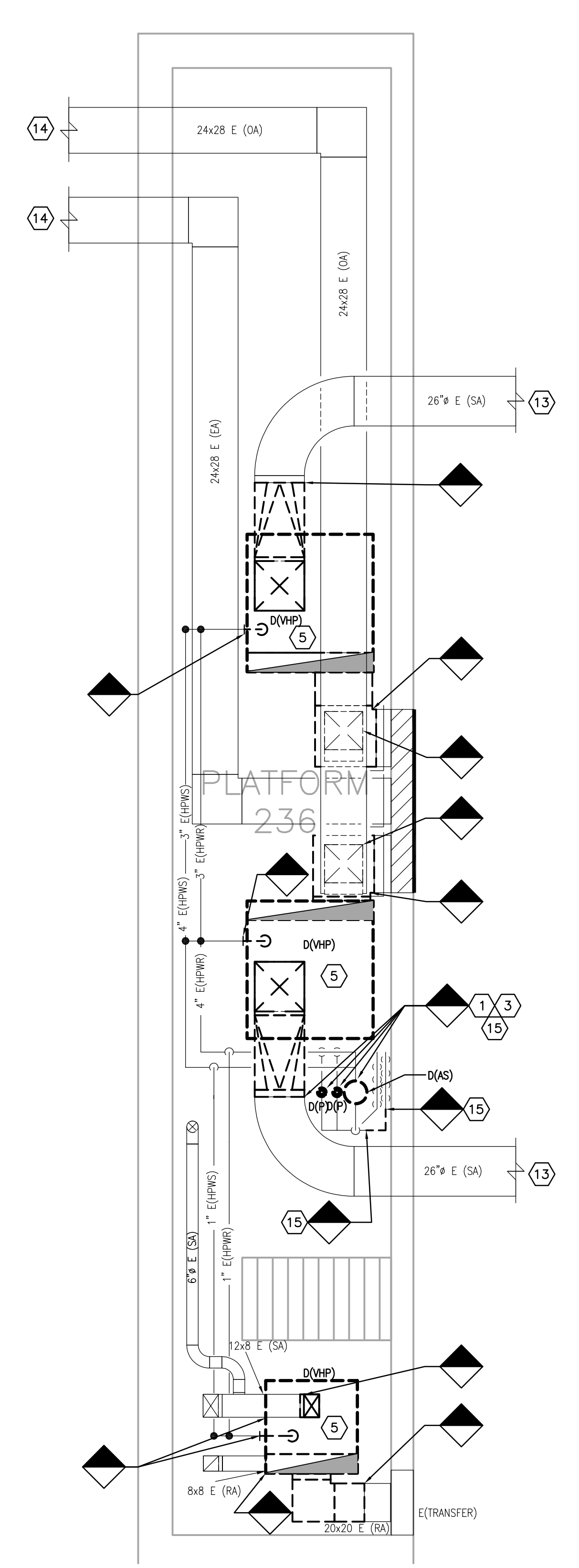
Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
SHOPVILLE ELEMENTARY SCHOOL
SOMERSET, KY
ENLARGED MECHANICAL PLANS



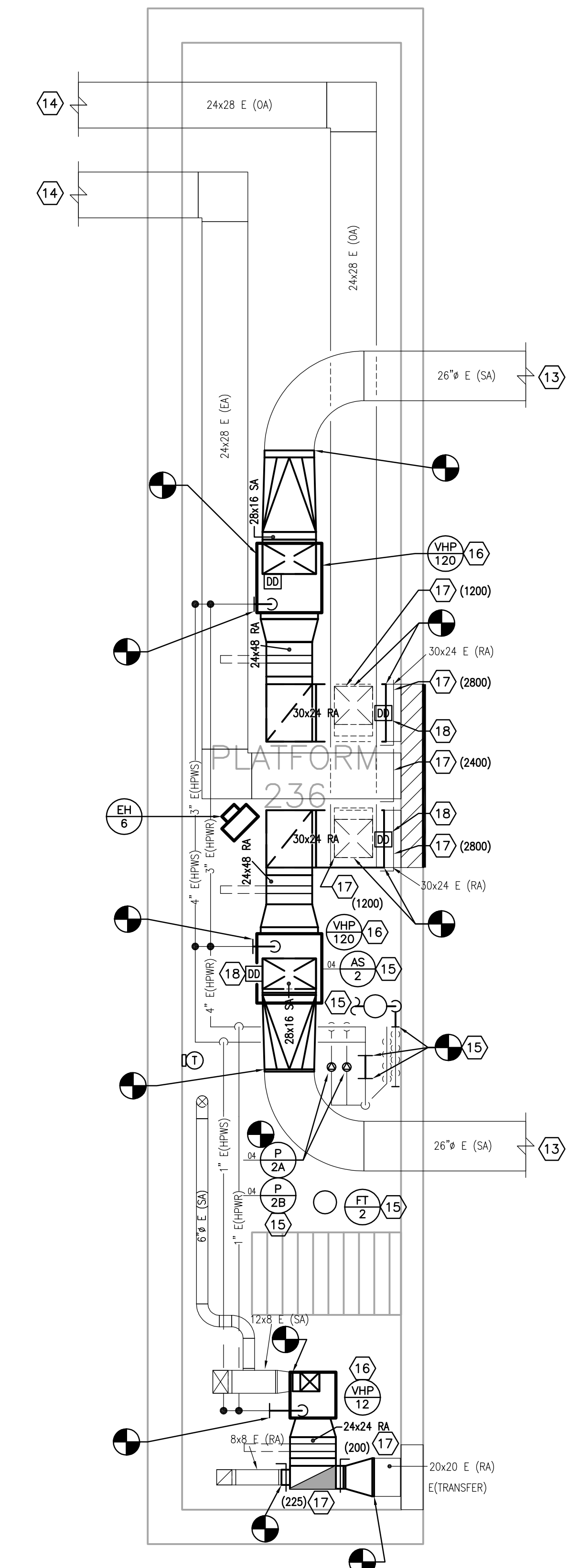
- ENLARGED MECHANICAL ROOMS - GENERAL NOTES:
- PATCH ALL WALL/ROOF/FLOOR PENETRATIONS WHERE EXISTING MEP EQUIPMENT/PIPING/DUCTWORK/ETC IS REMOVED.
 - REMOVE ALL CONCRETE PADS/SUPPORTS ASSOCIATED WITH MEP EQUIPMENT REMOVAL COMPLETELY; REMOVE ALL ABANDONED PADS/SUPPORTS COMPLETELY; PATCH AND SMOOTH FLOOR AS REQUIRED.
- ENLARGED MECHANICAL ROOMS:
- EXISTING PUMPS TO BE COMPLETELY REMOVED INCLUDING ALL EXISTING MECHANICAL, ELECTRICAL AND CONTROLS CONNECTIONS. CONCRETE PAD SHALL BE REMOVED; PATCH AND SMOOTH FLOOR AS REQUIRED.
 - EXISTING PIPING AND ALL ASSOCIATED VALVES, HANGERS, AND SUPPORTS TO BE COMPLETELY REMOVED. PATCH WALLS/SLAB/CEILING AT PIPING OPENINGS (TYPICAL).
 - EXISTING AIR SEPARATOR TO BE COMPLETELY REMOVED INCLUDING ALL ACCESSORIES/SUPPORTS.
 - EXISTING EXPANSION TANK TO BE COMPLETELY REMOVED INCLUDING ALL ACCESSORIES. CONCRETE PAD SHALL BE REMOVED.
 - EXISTING HEAT PUMP TO BE REMOVED COMPLETELY, INCLUDING ALL ASSOCIATED DUCTWORK, PIPING, CONDENSATE DRAIN AND PUMP (IF APPLICABLE), ELECTRICAL AND CONTROLS CONNECTIONS. PATCH WALL/FLOOR AS REQUIRED FOR COMPLETE EQUIPMENT REMOVAL.
 - EXISTING SUPPLY/RETURN/EXHAUST/OUTDOOR AIR DUCTWORK, GRILLES, AND RISER INDICATED TO BE REMOVED COMPLETELY. REMOVE ALL ASSOCIATED HANGERS/SUPPORTS/ACCESSORIES. PATCH WALLS/SLAB/CEILING AT DUCT OPENINGS (TYPICAL).
 - EXISTING LOUVER TO REMAIN. BLANK OFF THE INSIDE OF THE EXISTING LOUVER WITH SHEET METAL AND INSULATE WITH 2" RIGID INSULATION. COORDINATE LOUVER INFILL AND FINAL FINISHES WITH GENERAL CONTRACTOR.
 - EXISTING FILL STATION TO BE REMOVED COMPLETELY. REWORK DOMESTIC WATER CONNECTIONS AS REQUIRED FOR NEW FILL STATION LOCATIONS. PROVIDE ALL NECESSARY VALVES AND ACCESSORIES AS REQUIRED. REFER TO NEW WORK PLANS FOR ADDITIONAL INFORMATION.
 - PROVIDE 4" THICK CONCRETE PAD UNDER MECHANICAL EQUIPMENT. PAD SHALL BE 6" LARGER THAN THE MECHANICAL EQUIPMENT FOOTPRINT IN ALL DIRECTIONS UNLESS SHOWN LARGER ON THE FLOOR PLAN.
 - HYDRONIC FILL SYSTEM. MOUNT AT 48" A.F.F. REFER TO DETAIL ON SHEET MS-1.
 - PROVIDE A UNI-STRUT STAND FOR THE VFD. COORDINATE INSTALLATION WITH THE ELECTRICAL CONTRACTOR. PROVIDE VERTICAL UNI-STRUT ON WALL MOUNTED VFD'S.
 - DOC CONTROL PANEL. COORDINATE LOCATION WITH THE CONTROLS AND ELECTRICAL CONTRACTORS.
 - REFER TO THE FLOOR PLANS FOR CONTINUATION OF DUCTWORK/PIPING.
 - REFER TO THE ROOF PLAN FOR CONTINUATION OF DUCTWORK.
 - REFER TO THE GYM PLATFORM PIPING SCHEMATIC ON THIS SHEET FOR ADDITIONAL DETAIL.
 - REFER TO THE VERTICAL HEAT PUMP INSTALLATION DETAIL ON SHEET M-6.1 FOR ADDITIONAL INSTALLATION REQUIREMENTS.
 - BALANCE MANUAL VOLUME DAMPER TO CFM INDICATED ON THE FLOOR PLANS.
 - DUCT SMOKE DETECTOR. COORDINATE INSTALLATION WITH THE ELECTRICAL CONTRACTOR.



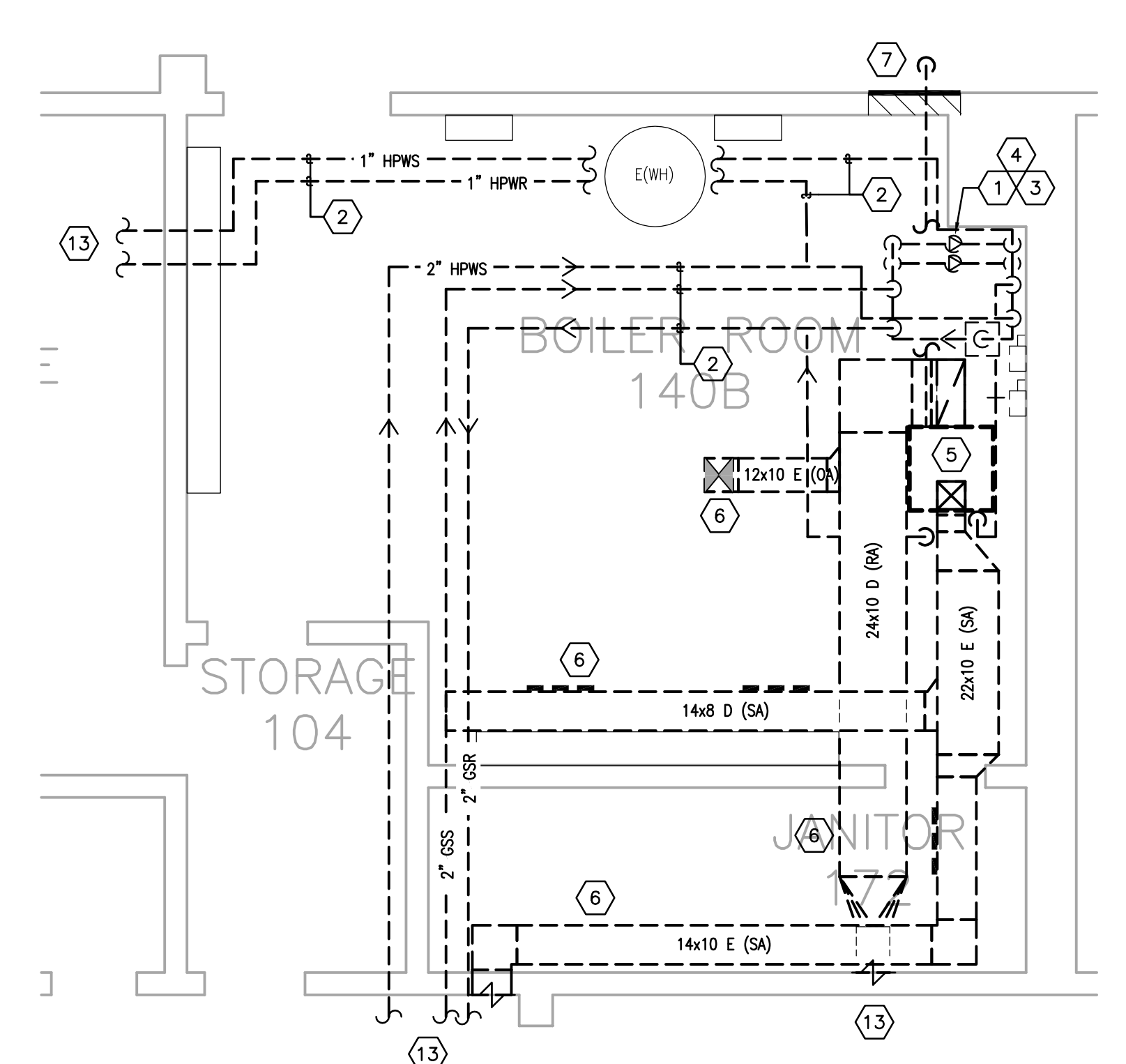
ENLARGED STORAGE 123B - MECHANICAL DEMOLITION
SCALE: 1/4" = 1'-0"
M4-4.0



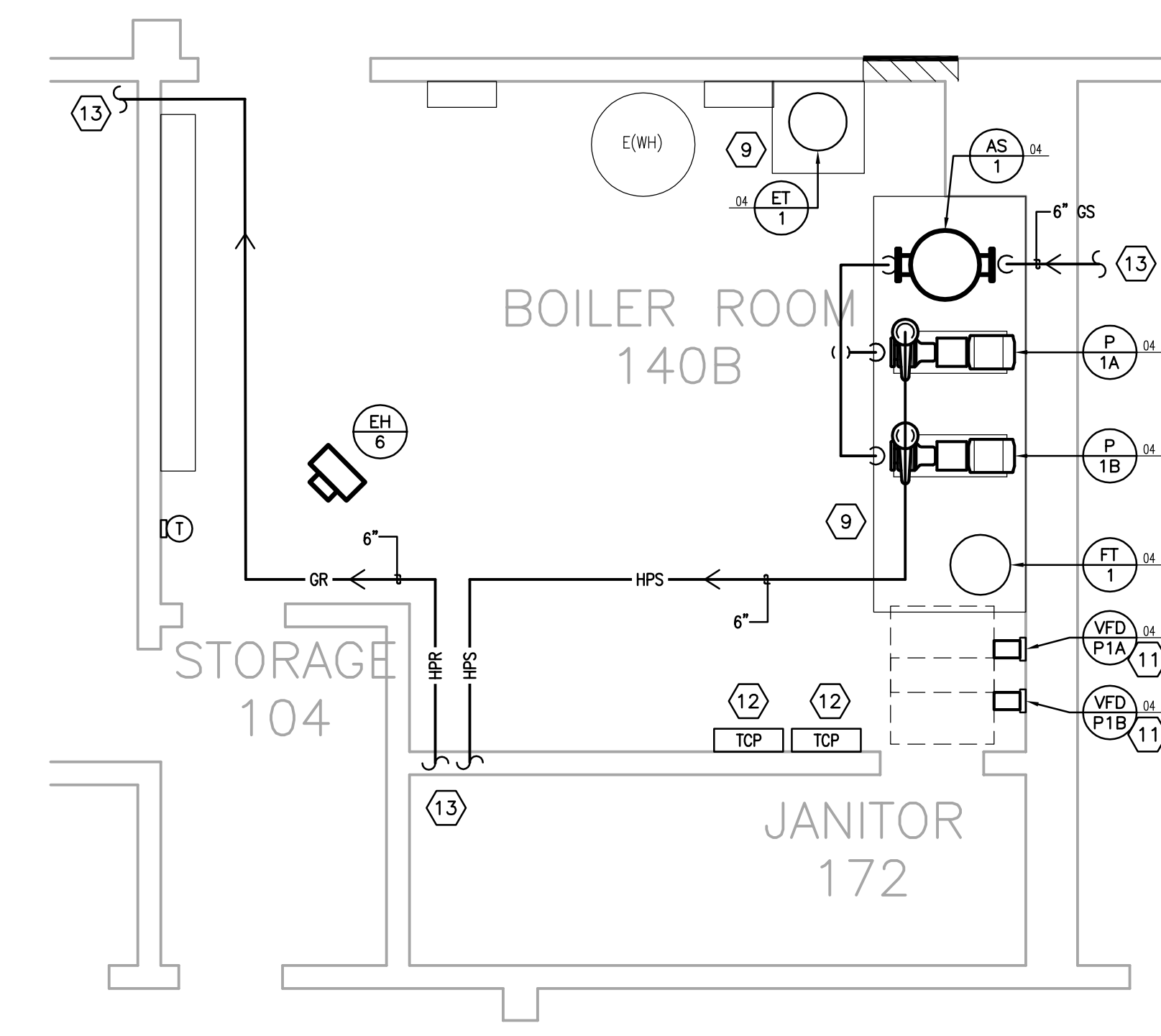
ENLARGED PLATFORM 236 - MECHANICAL DEMOLITION
SCALE: 1/4" = 1'-0"
M4-4.0



ENLARGED PLATFORM 236 - MECHANICAL
SCALE: 1/4" = 1'-0"
M4-4.0



ENLARGED BOILER ROOM 140B - MECHANICAL DEMOLITION
SCALE: 1/4" = 1'-0"
M4-4.0



ENLARGED BOILER ROOM 140B - MECHANICAL
SCALE: 1/4" = 1'-0"
M4-4.0

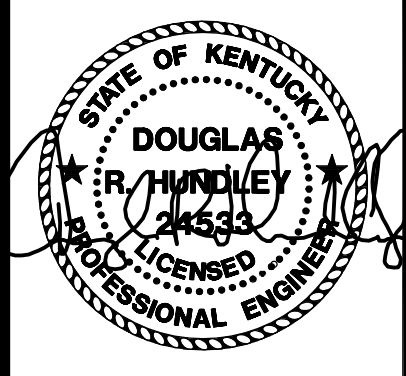
REVISIONS

NO.	DATE	DESCRIPTION

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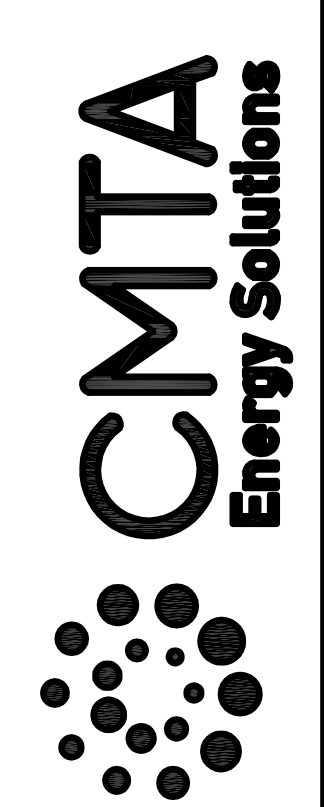
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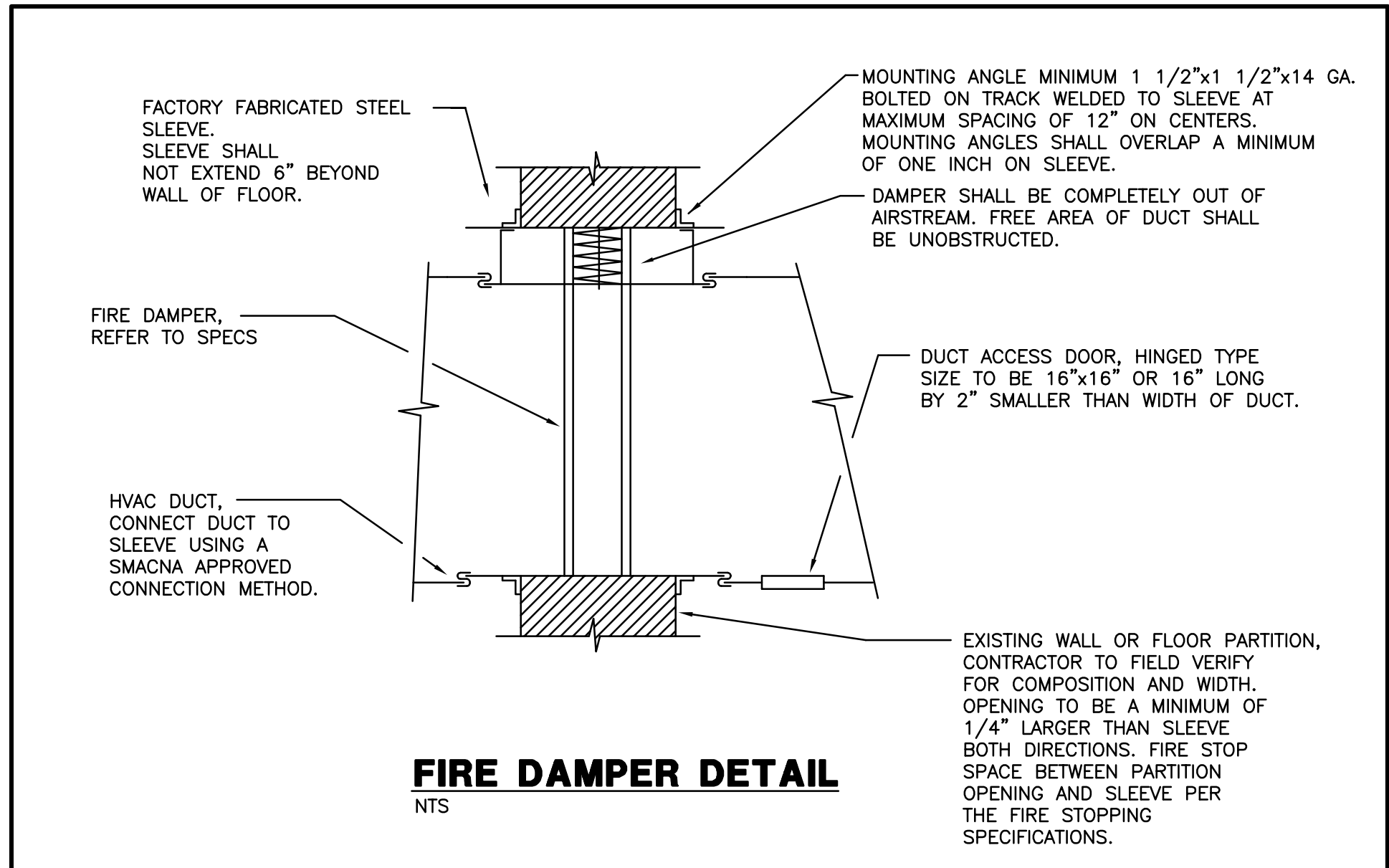


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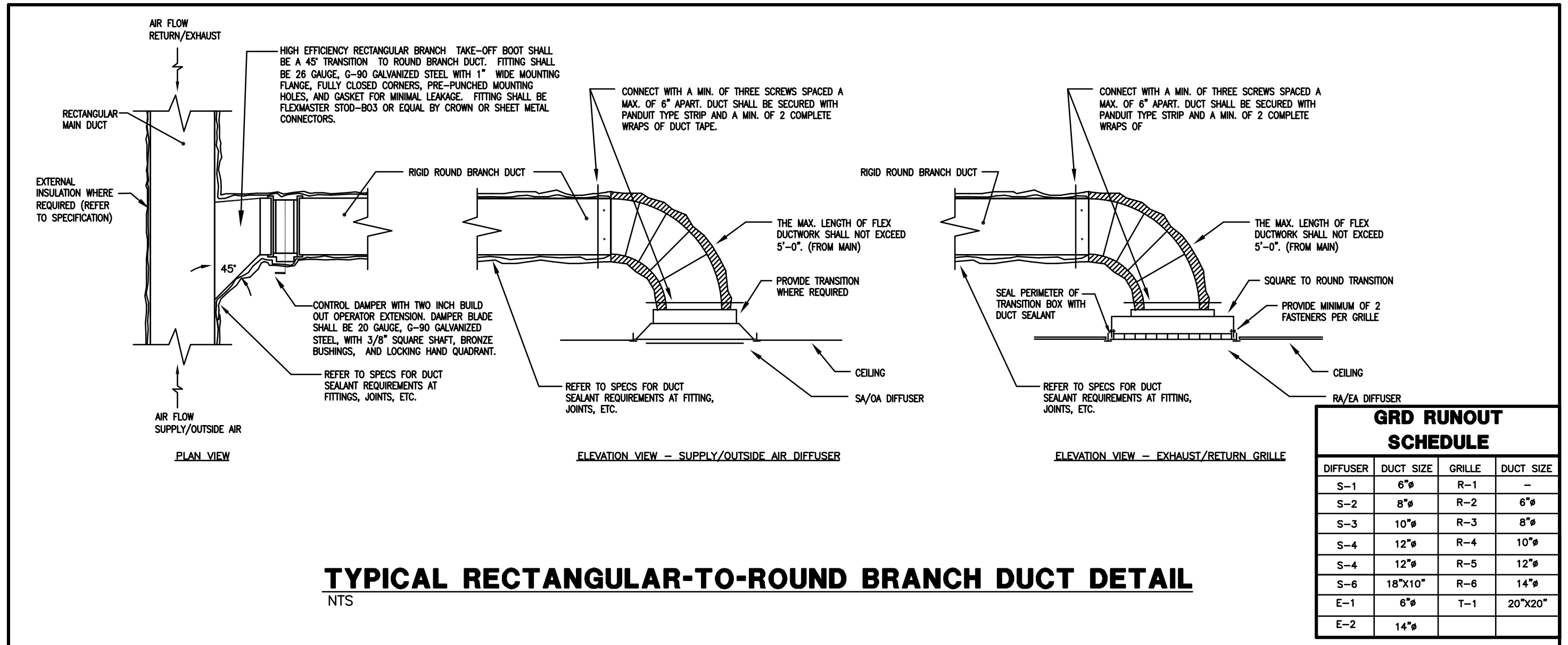
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Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
MECHANICAL DETAILS

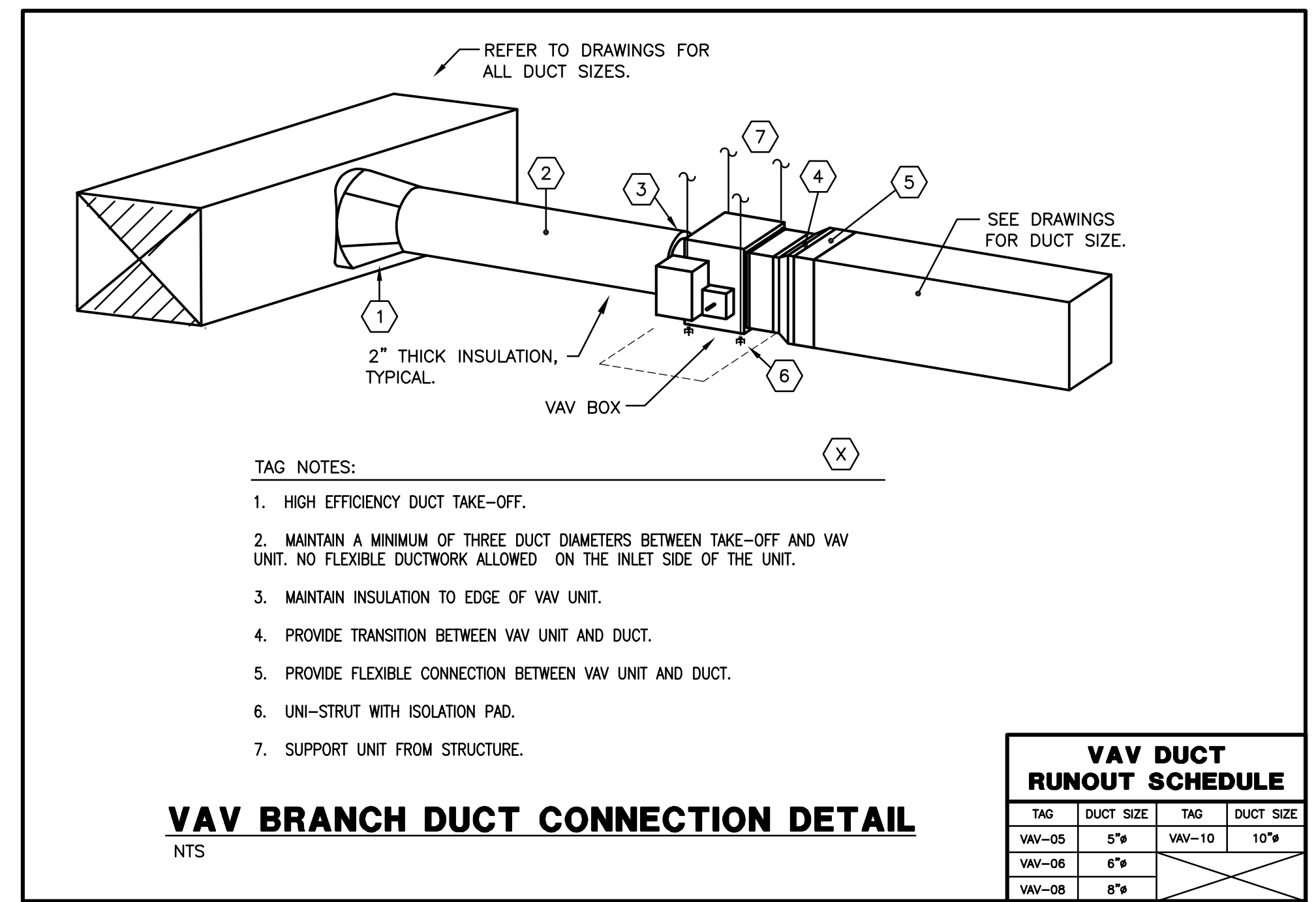


FIRE DAMPER DETAIL
NTS



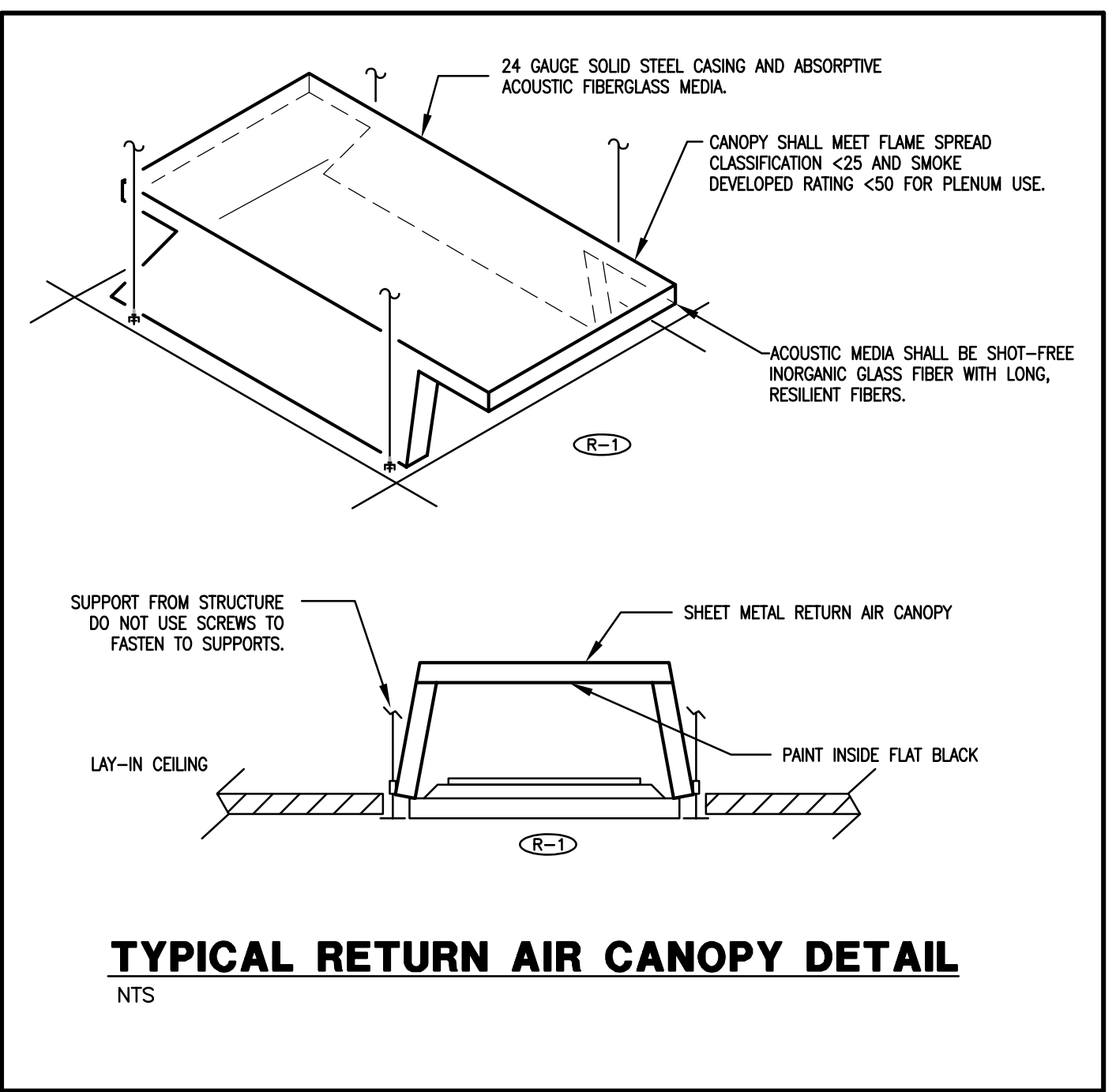
TYPICAL RECTANGULAR-TO-ROUND BRANCH DUCT DETAIL
NTS

DIFFUSER	DUCT SIZE	GRILLE	DUCT SIZE
S-1	6"	R-1	-
S-2	8"	R-2	6"
S-3	10"	R-3	8"
S-4	12"	R-4	10"
S-5	18"x10"	R-5	12"
E-1	6"	T-1	20"x20"
E-2	14"	-	-

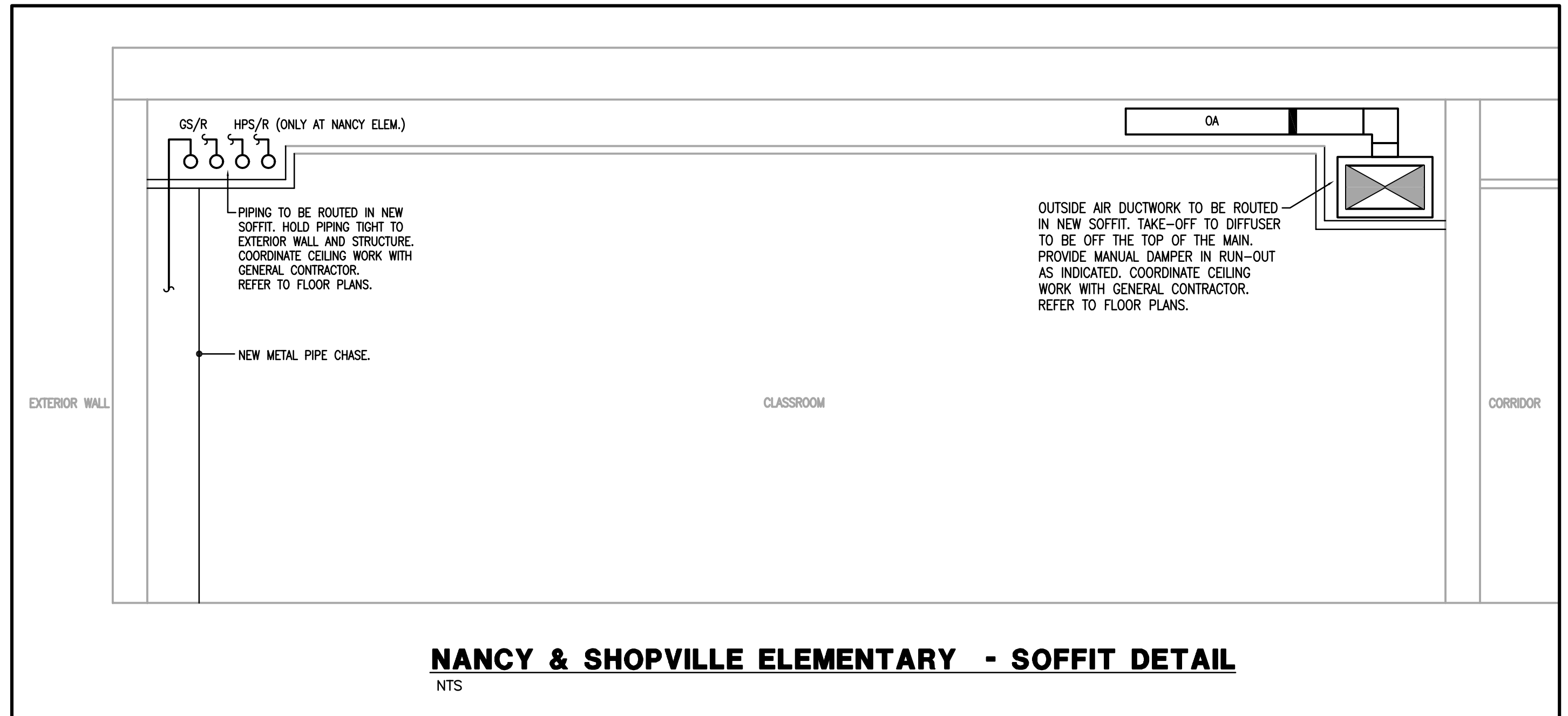


VAV BRANCH DUCT CONNECTION DETAIL
NTS

TAG	DUCT SIZE	TAG	DUCT SIZE
VAV-05	5"	VAV-10	10"
VAV-06	6"		
VAV-08	8"		



TYPICAL RETURN AIR CANOPY DETAIL
NTS



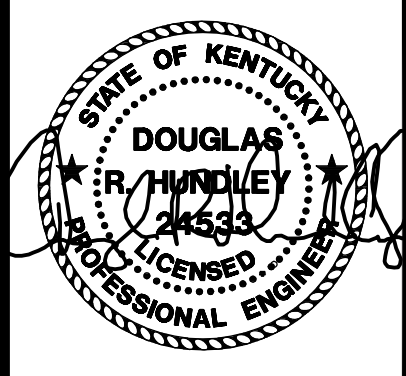
NANCY & SHOPVILLE ELEMENTARY - SOFFIT DETAIL
NTS

NO.	DATE	DESCRIPTION

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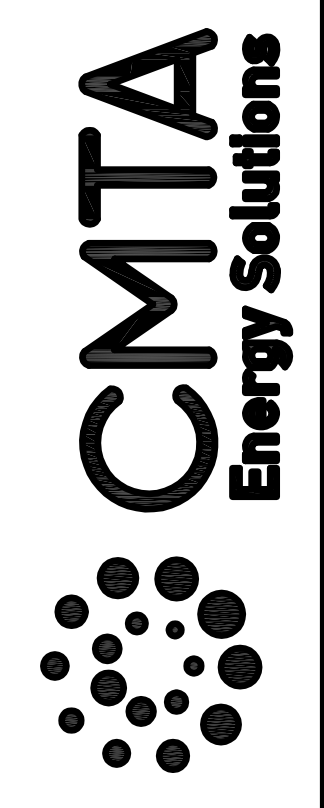
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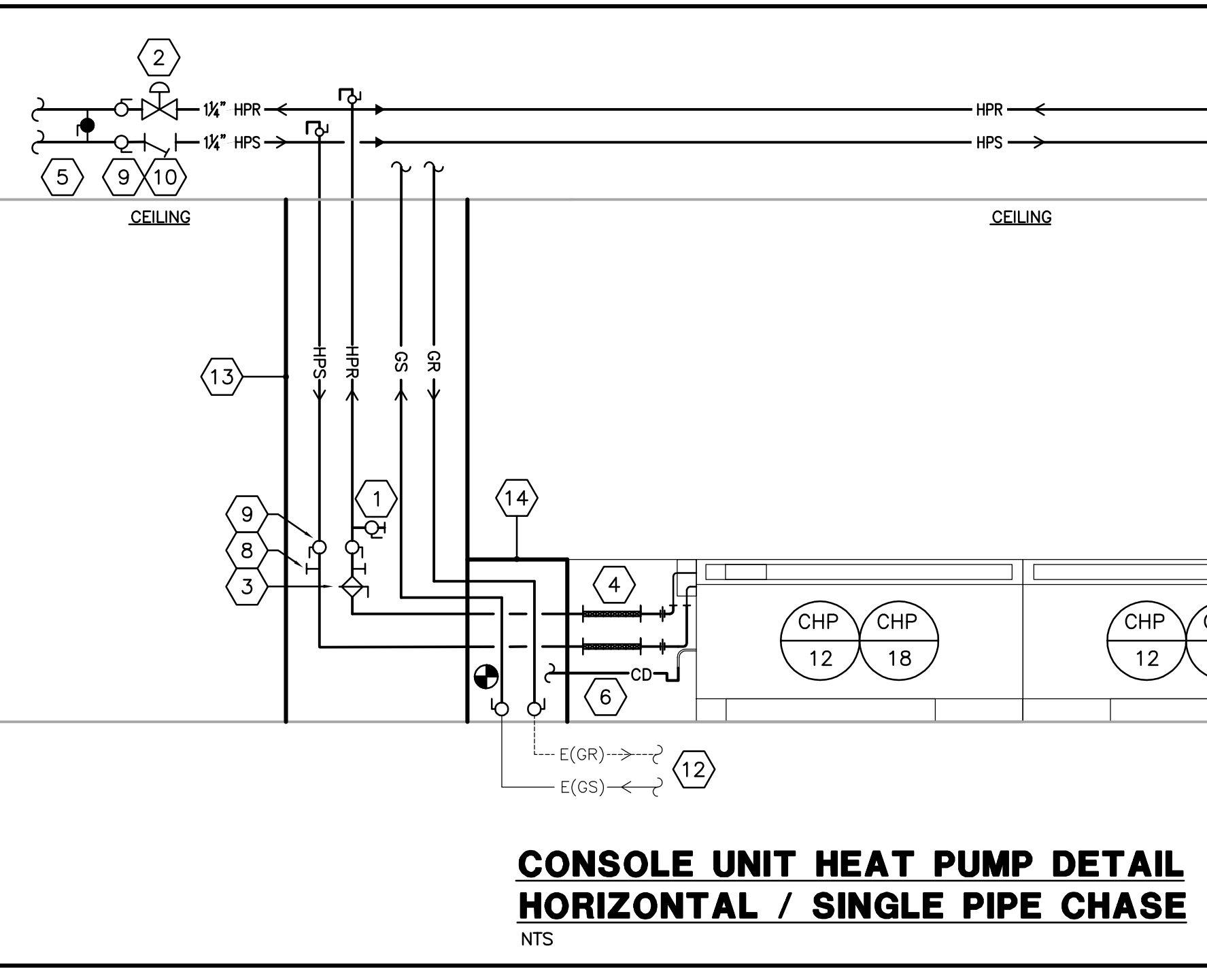
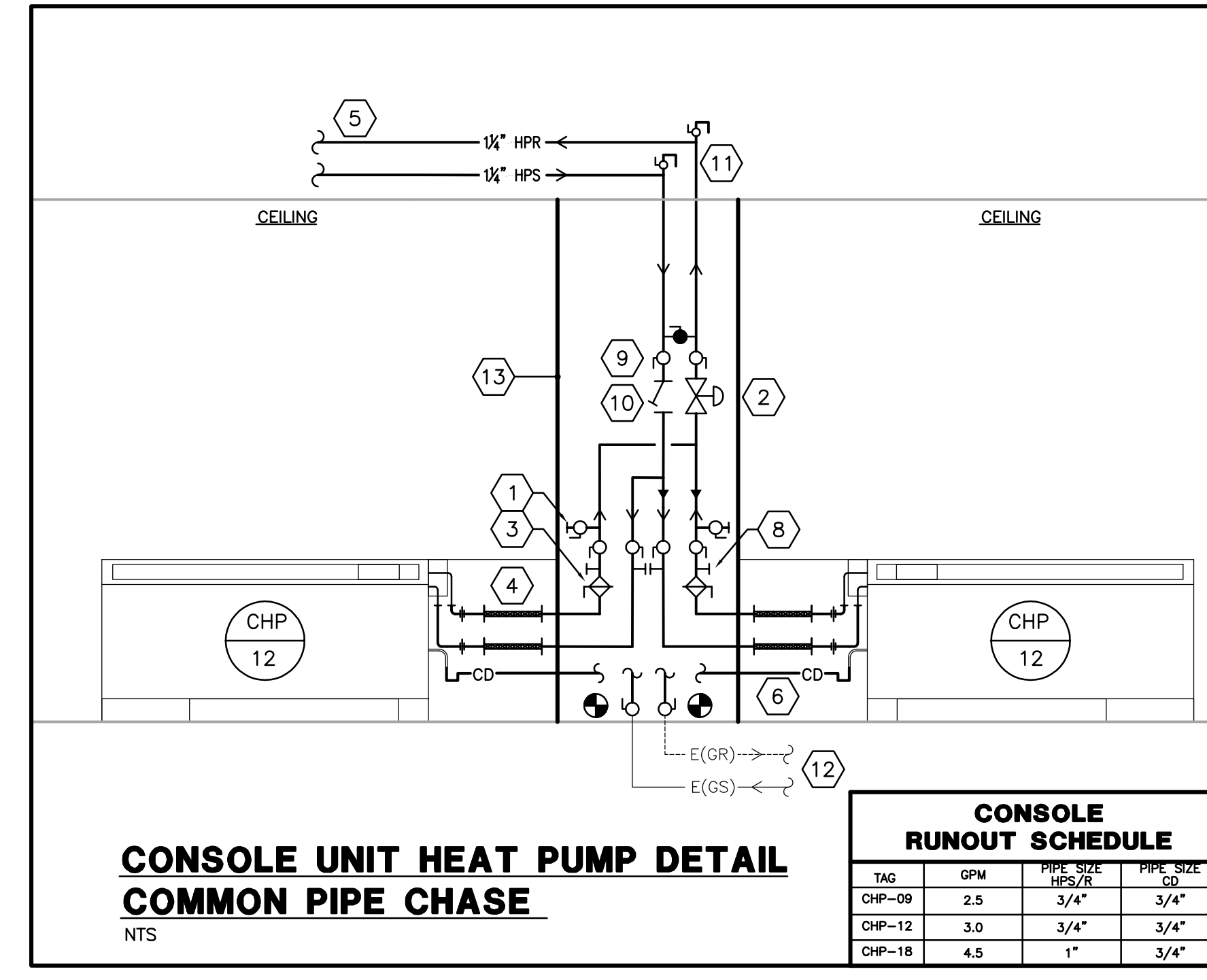
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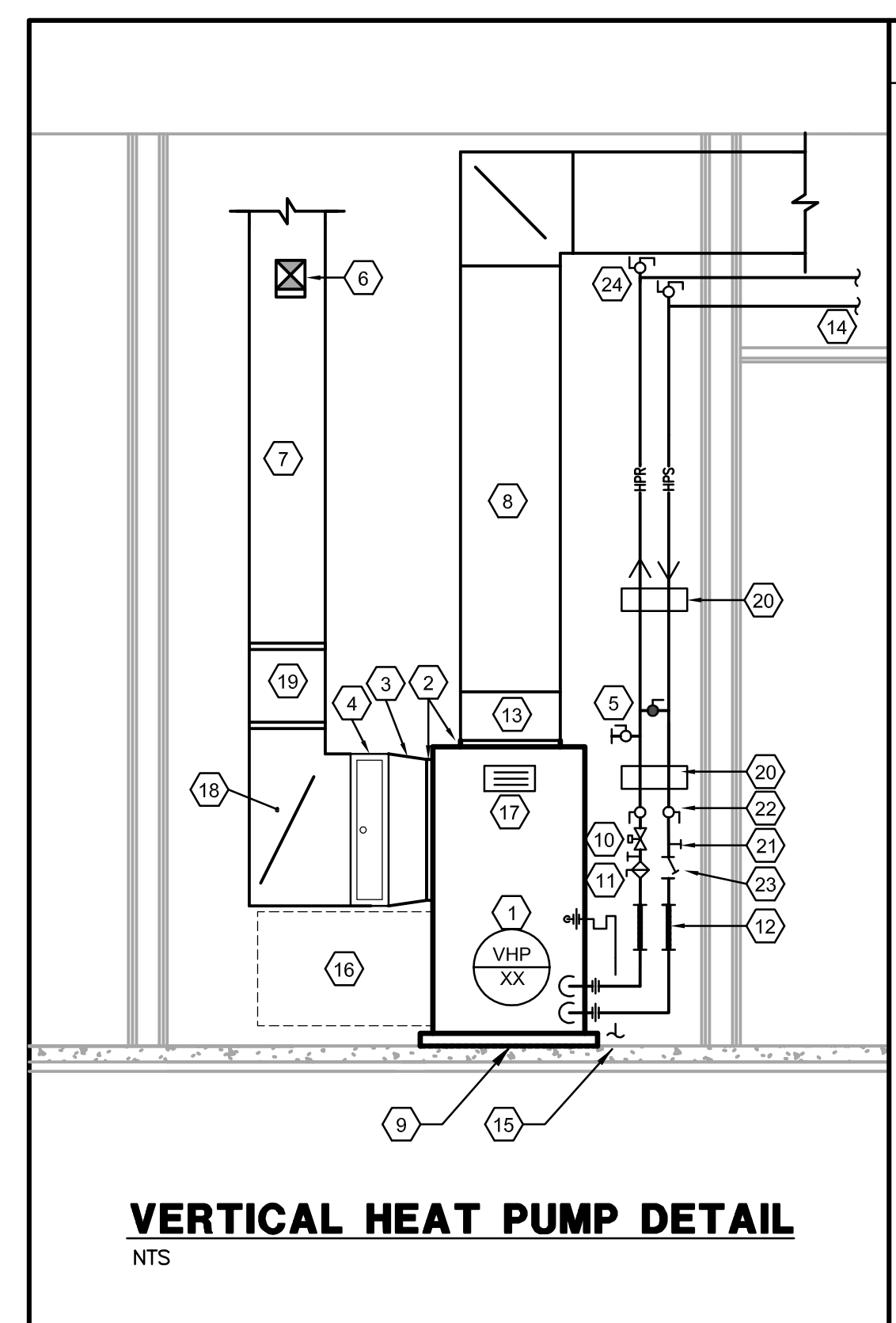
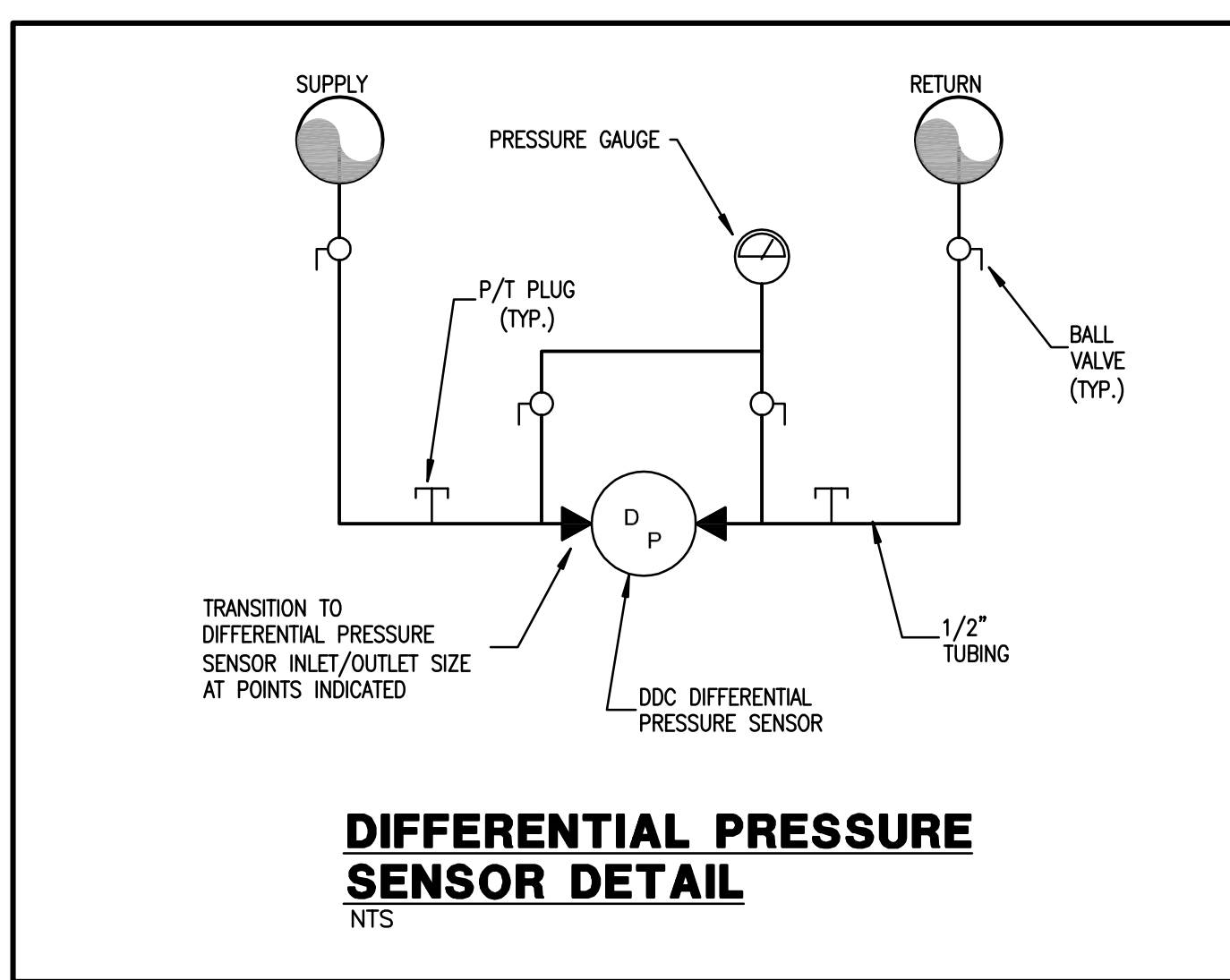
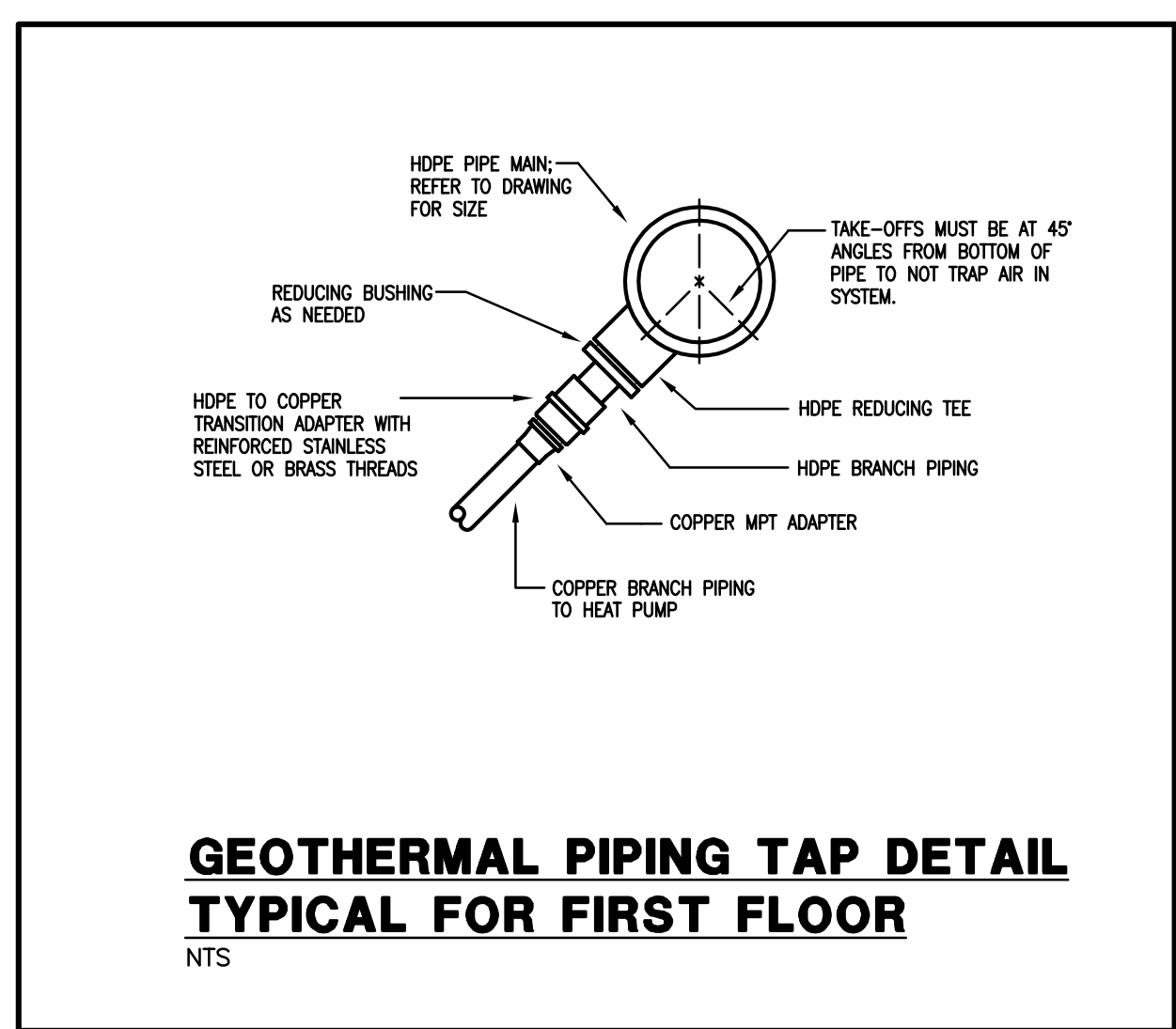


Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT

MECHANICAL DETAILS

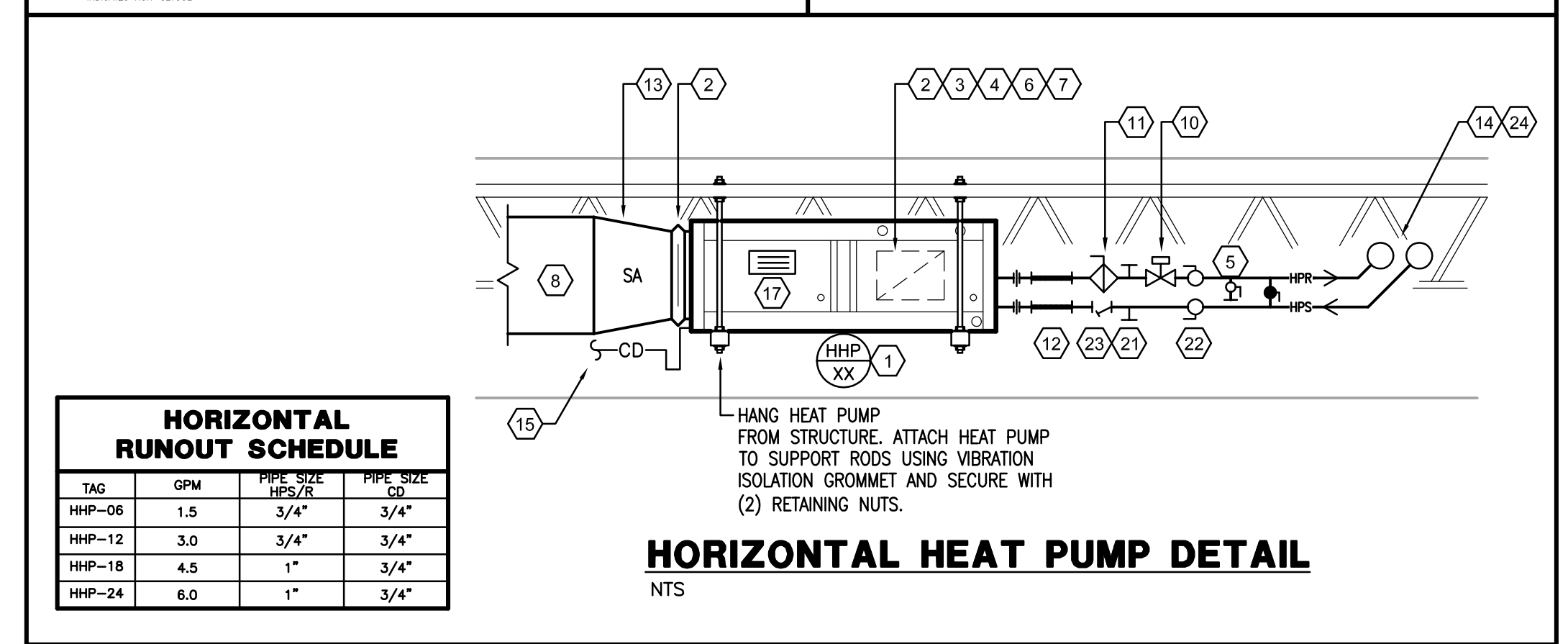


- HEAT PUMP NOTES: *REFER TO FLOOR PLANS FOR UNIT CONFIGURATIONS
1. PROVIDE BALL VALVE WITH A 3/4" HOSE BIBB CONNECTION. PROVIDE WITH GASKETED DUST CAP.
 2. TWO POSITION CONTROL VALVE (FULL PORT). PROVIDE A BELIMO THREE-WIRE, TWO WAY, TWO-POSITION CONTROL VALVE WITH ACTUATOR. COORDINATE WITH TOC.
 3. AUTOMATIC BALANCING VALVES.
 4. 9" FLEXIBLE HOSE.
 5. REFER TO DRAWINGS FOR CONTINUATION OF HPS/HPR PIPING. REFER TO THE PIPING RUNOUT SCHEDULE FOR PROPER SIZING.
 6. ROUTE CONDENSATE THROUGH EXTERIOR WALL AND SPILL TO GRADE.
 7. SECURELY SUPPORT PIPING FROM WALL. TYPICAL UTILIZE VIBRATION ISOLATION SUPPORTS AT PIPING SUPPORT.
 8. INCLUDE SINGLE PRESSURE/TEMPERATURE TEST PORTS.
 9. ISOLATION VALVE.
 10. STRAINER. FURNISH WITH HOSE CONNECTOR BLOW DOWN VALVE.
 11. MANUAL AIR VENTS SHALL BE INSTALLED AT THE TOP OF ALL GEOTHERMAL PIPES.
 12. EXISTING GEOTHERMAL PIPING ROUTED UNDERSLAB TO EXISTING WELLFIELD. PROVIDE INTERIOR SHUT-OFF VALVES AS REQUIRED. CONTRACTOR RESPONSIBLE FOR VERIFYING PIPE FLOW DIRECTION AND PIPE SIZE FOR CONNECTION.
 13. NEW VERTICAL METAL PIPE CHASE. PROVIDE ACCESS PANEL AT VALVES. CONTRACTOR TO COORDINATE CHASE AND PANEL SIZE.
 14. NEW HORIZONTAL METAL PIPE CHASE. PROVIDE ACCESS PANEL AT VALVES. CONTRACTOR TO COORDINATE CHASE AND PANEL SIZE.



VERTICLE RUNOUT SCHEDULE							
TAG	GPM	PIPE SIZE	PIPE SIZE	TAG	GPM	PIPE SIZE	PIPE SIZE
WP-09	1.5	3/4"	3/4"	WP-26	9.0	1 1/2"	1"
WP-12	3.0	3/4"	3/4"	WP-48	12.0	1 1/2"	1"
WP-18	4.5	1"	3/4"	WP-60	15.0	1 1/2"	1"
WP-24	6.0	1 1/4"	3/4"	WP-72	18.0	1 1/2"	1 1/4"
WP-24	6.0	1 3/4"	3/4"	WP-120	30.0	2"	1 1/4"

- HEAT PUMP NOTES: *REFER TO FLOOR PLANS FOR UNIT CONFIGURATIONS
1. HEAT PUMP UNIT. DO NOT BLOCK ACCESS PANEL FOR HEAT PUMP UNIT WITH ANY OBJECT.
 2. PROVIDE FLEXIBLE CANVAS CONNECTIONS AT UNIT CONNECTION. TRANSITION DUCTWORK TO UNIT OPENING AS NEEDED.
 3. TRANSITION FROM FULL SIZE OF UNIT TO FILTER SECTION.
 4. SIDE ACCESS FILTER SECTION. PROVIDE MANUHEIM GAUGE TAPS FOR DIFFERENTIAL PRESSURE MONITORING VIA A MANUAL/PORTABLE GAUGE. HOUSINGS SHALL BE FACTORY ASSEMBLED, HAVE ONE HINGED ACCESS DOOR WITH QUICK ACCESS LATCHES, AND BE CONSTRUCTED ON 16 GAUGE ALUMINIZED STEEL MINIMUM.
 5. PROVIDE BALL VALVE WITH A 3/4" HOSE BIBB CONNECTION. PROVIDE WITH GASKETED DUST CAP.
 6. IF APPLICABLE, CONNECT OUTSIDE AIR DUCT TO RETURN AIR DUCT WITH HIGH EFFICIENCY TAKE-OFF. REFER TO DRAWINGS FOR DUCT SIZE.
 7. RETURN AIR DUCTWORK. REFER TO DRAWINGS FOR DUCT SIZE.
 8. SUPPLY AIR DUCTWORK. REFER TO DRAWINGS FOR DUCT SIZE.
 9. VIBRATION ISOLATION PAD (RUBBER OR CORK) AT UNIT BASE.
 10. TWO POSITION CONTROL VALVE (FULL PORT). PROVIDE A BELIMO THREE-WIRE, TWO WAY, TWO-POSITION CONTROL VALVE WITH ACTUATOR. COORDINATE WITH TOC.
 11. AUTOMATIC BALANCING VALVES.
 12. FLEXIBLE HOSE.
 13. TRANSITION FROM FULL SIZE OF UNIT OUTLET TO DUCT SIZE INDICATED ON THE DRAWINGS.
 14. REFER TO DRAWINGS FOR CONTINUATION OF HPS/HPR PIPING. REFER TO THE PIPING RUNOUT SCHEDULE FOR PROPER SIZING.
 15. SPILL CONDENSATE TO NEAREST FLOOR DRAIN OR EXISTING CONDENSATE PIPE, UNLESS OTHERWISE NOTED.
 16. MAINTAIN 24" CLEARANCE ON LEFT HAND SIDE OF HEAT PUMP TO ALLOW FOR ACCESS TO COMPRESSOR.
 17. IDENTIFICATION PLACARD; THE PLACARD SHALL INCLUDE THE ELECTRIC PANEL NAME, CIRCUIT NUMBER FEEDING THE EQUIPMENT, AND AREA SERVED.
 18. PROVIDE TRANSITION ELBOW WITH VANES, TYPICAL OF ALL.
 19. TRANSITION DUCT FROM ELBOW TO DUCT SIZE INDICATED ON PLANS.
 20. SECURELY SUPPORT PIPING FROM WALL. TYPICAL UTILIZE VIBRATION ISOLATION SUPPORTS AT PIPING SUPPORT.
 21. INCLUDE SINGLE PRESSURE/TEMPERATURE TEST PORTS.
 22. ISOLATION VALVE.
 23. STRAINER. FURNISH WITH HOSE CONNECTOR BLOW DOWN VALVE.
 24. MANUAL AIR VENTS SHALL BE INSTALLED AT THE TOP OF ALL GEOTHERMAL PIPES.



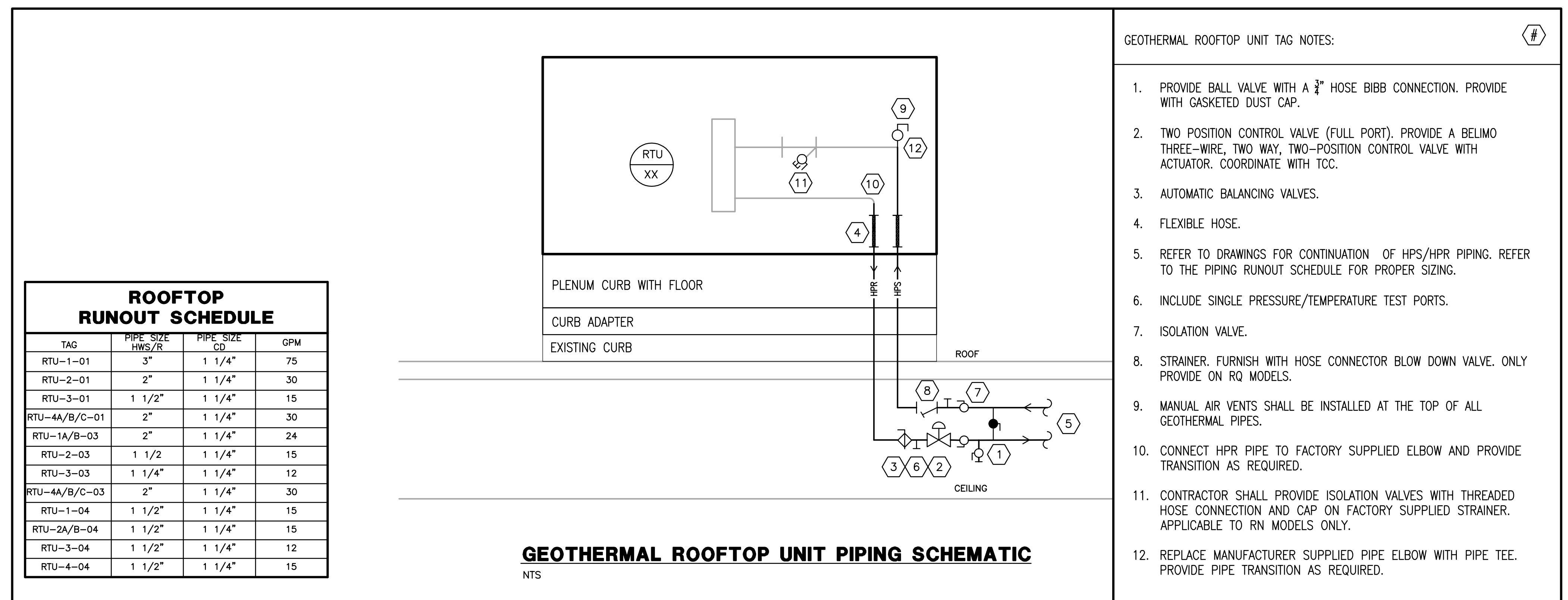
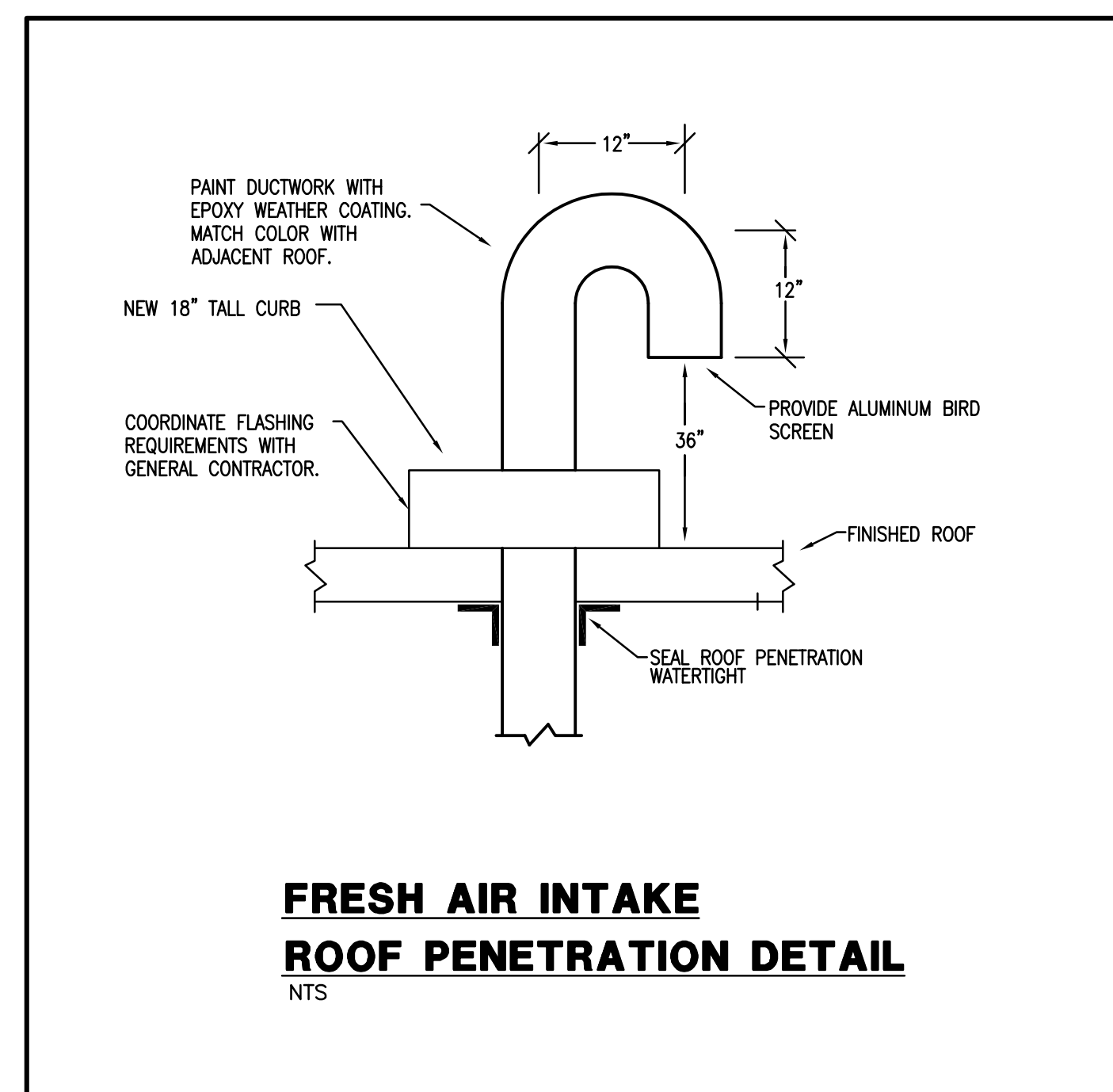
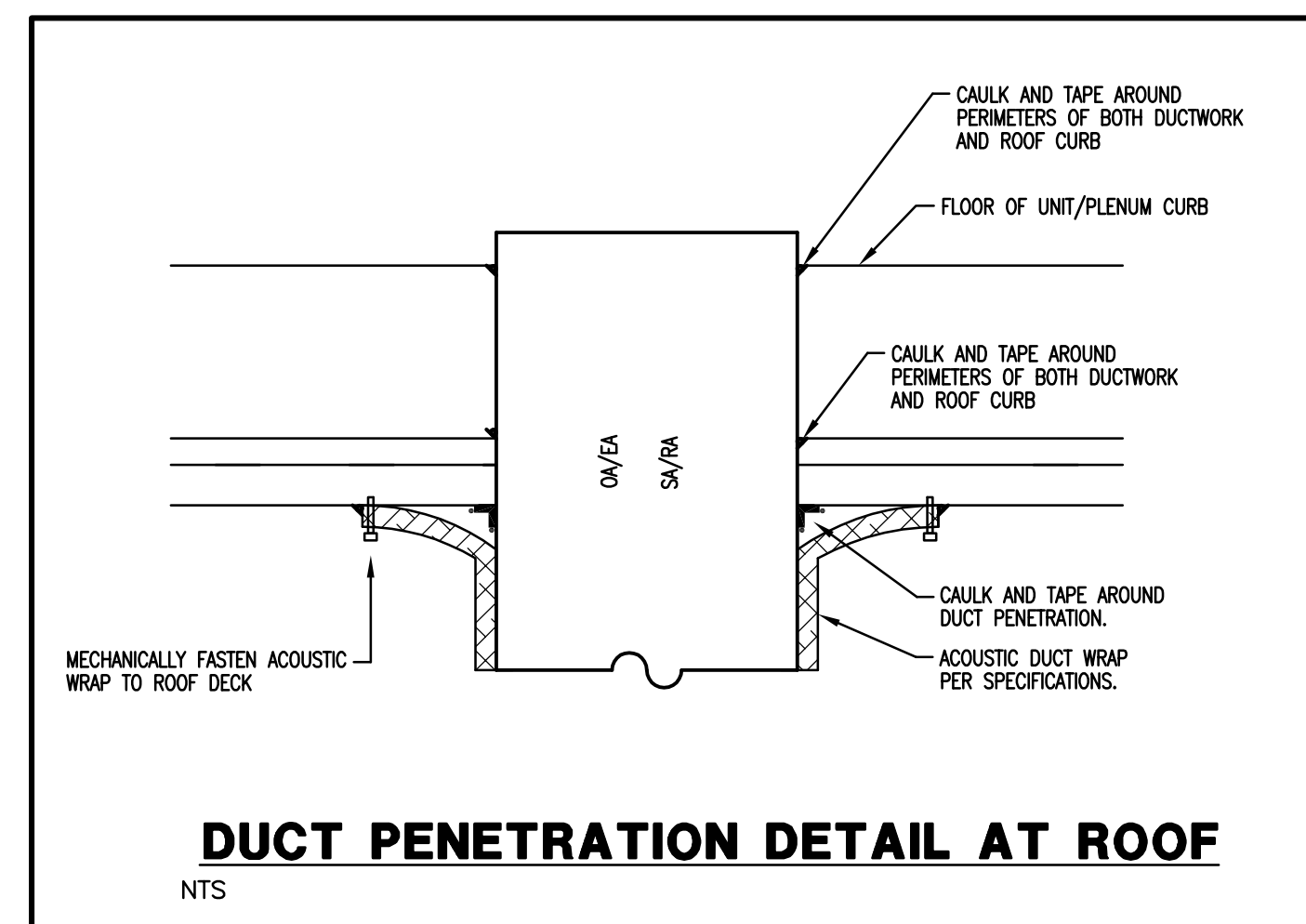
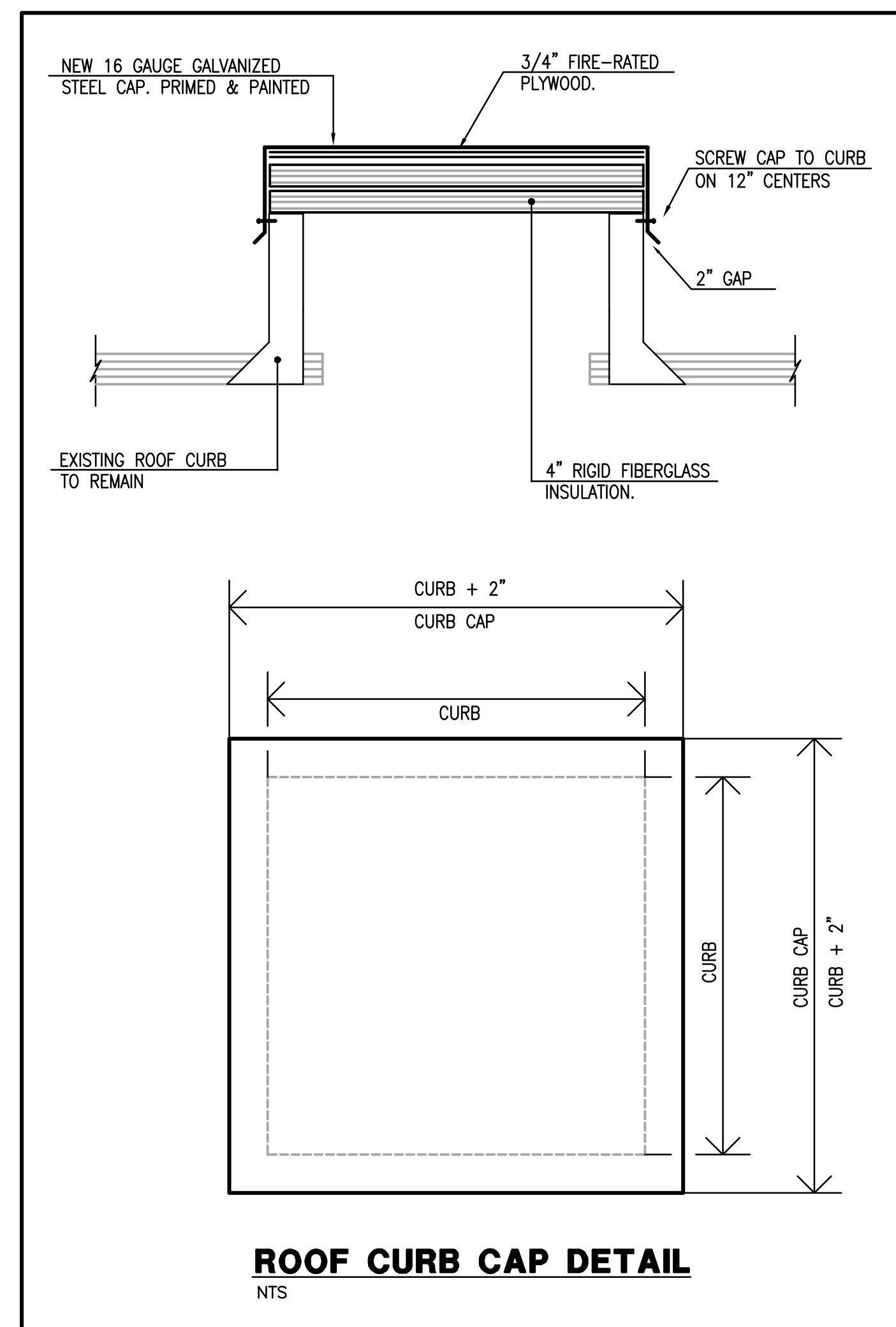
HORIZONTAL RUNOUT SCHEDULE			
TAG	GPM	PIPE SIZE	PIPE SIZE
HHP-09	1.5	3/4"	3/4"
HHP-12	3.0	3/4"	3/4"
HHP-18	4.5	1"	3/4"
HHP-24	6.0	1"	3/4"

REVISIONS

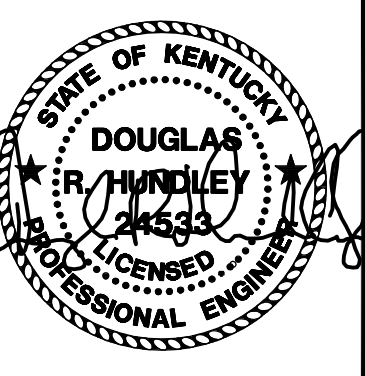
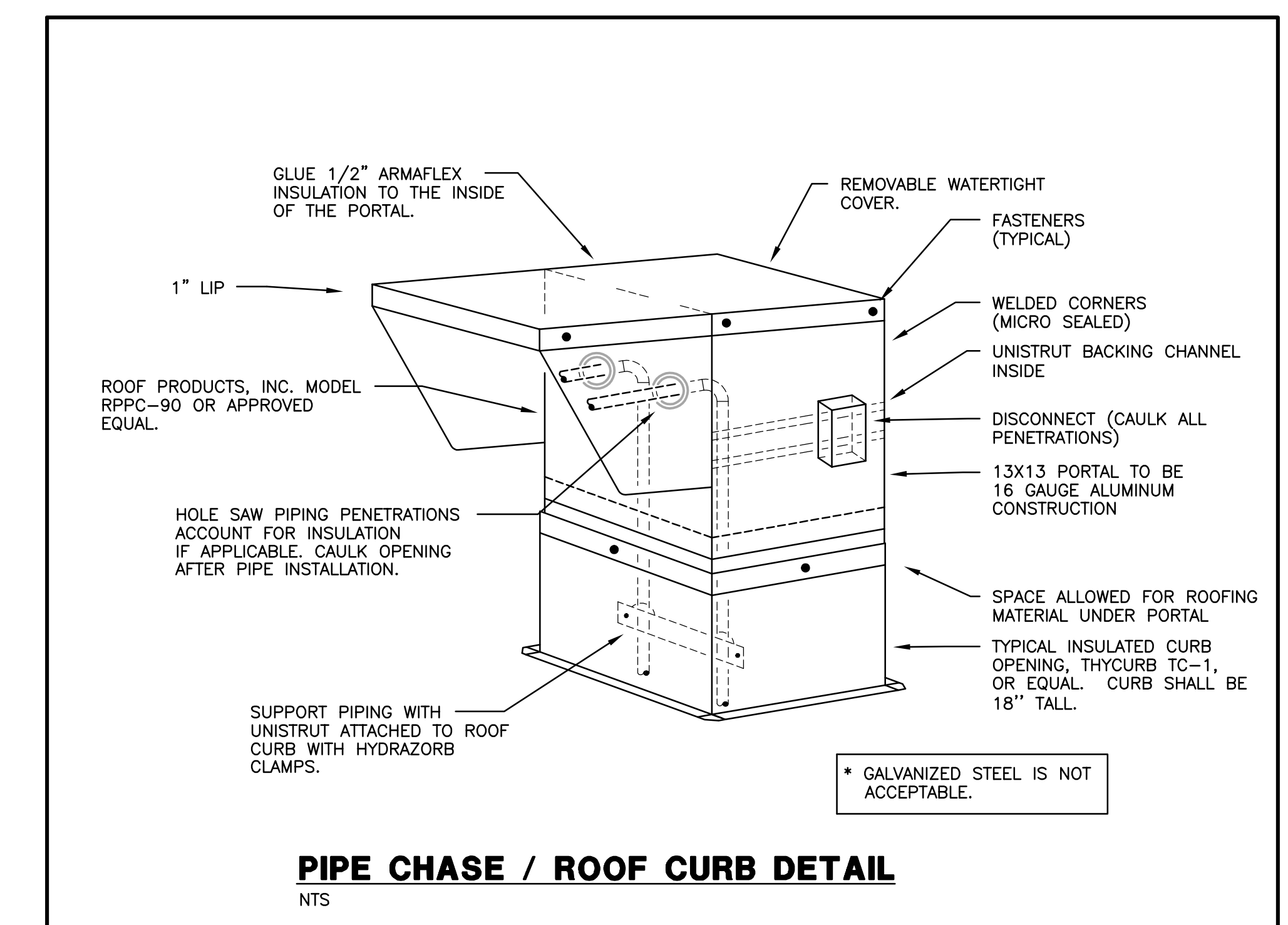
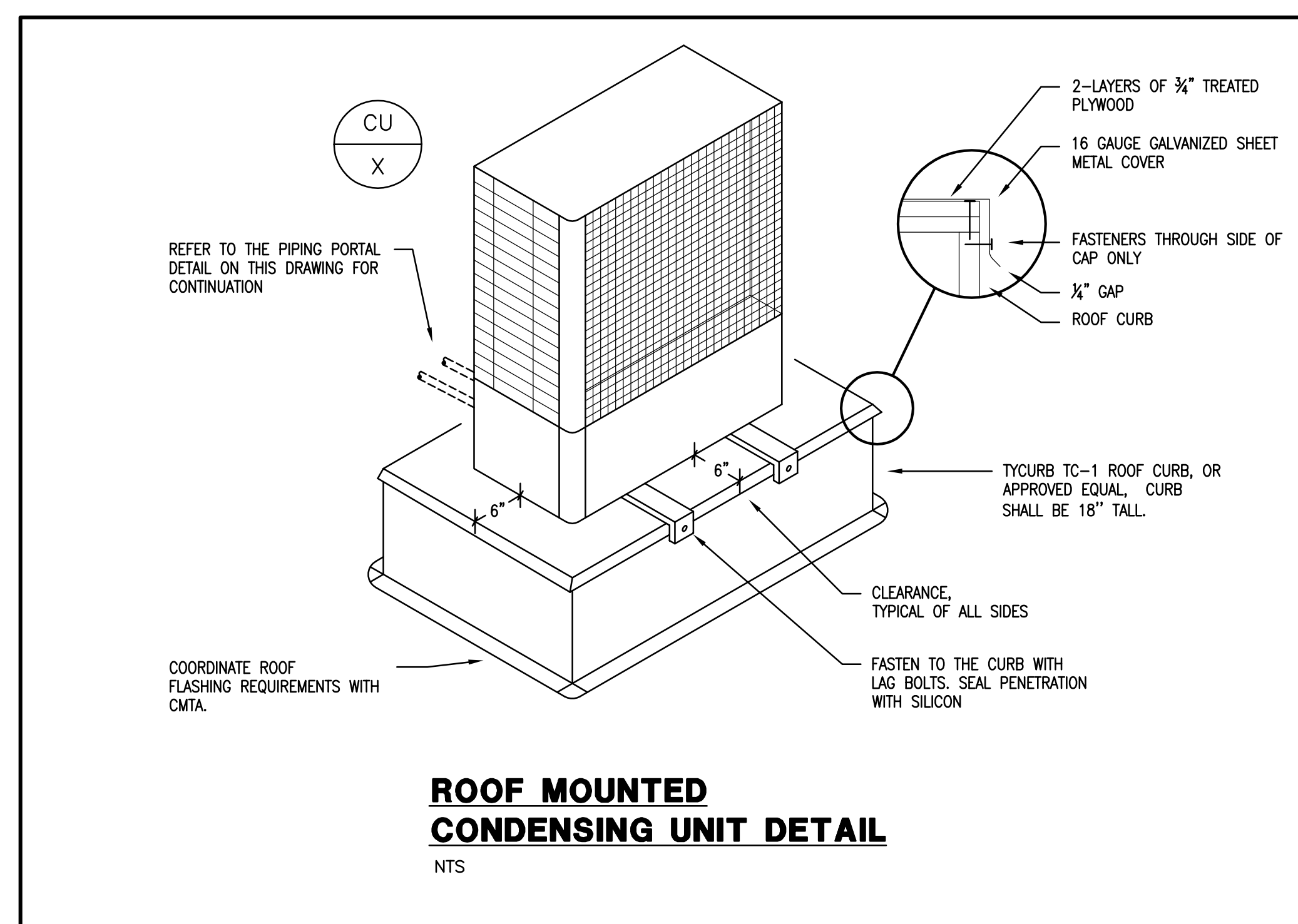
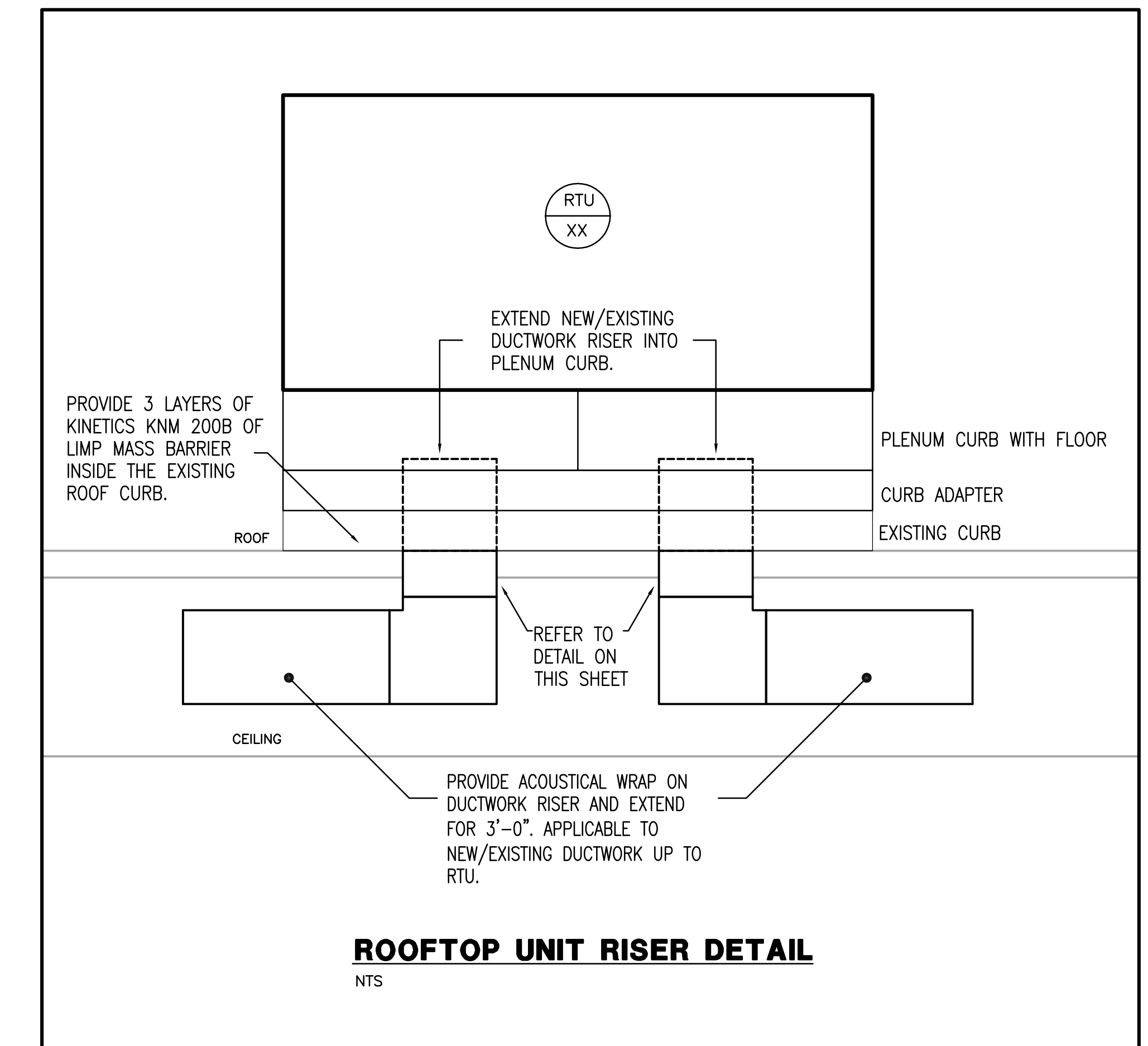
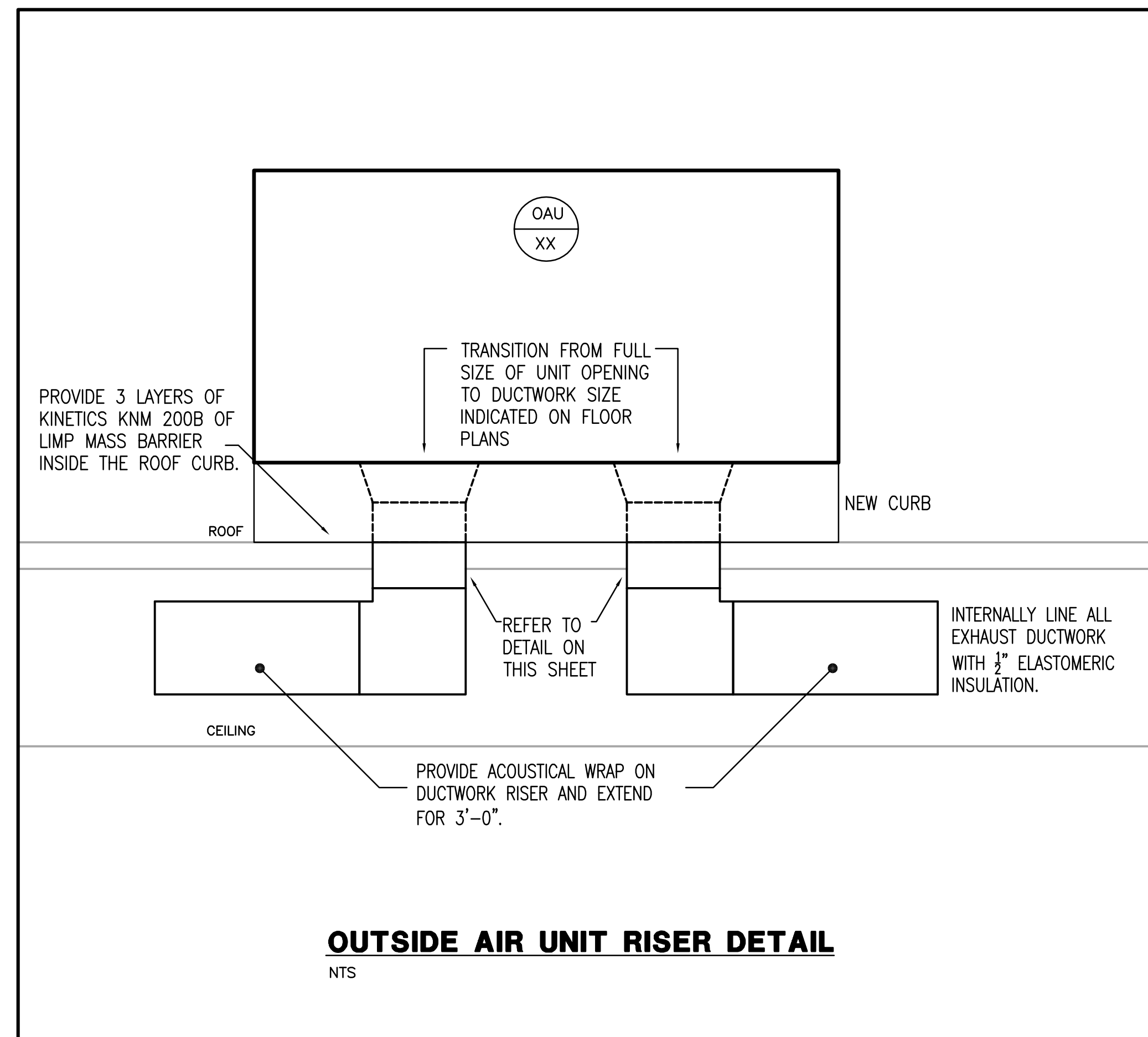
DATE: 03.11.2022
DRAWN: EM, LA, HC, NT
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M-6.1

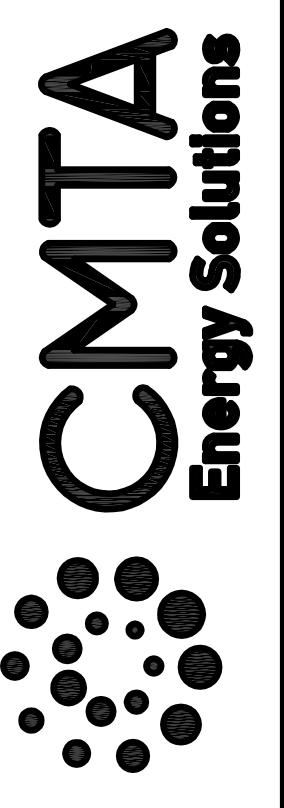


- GEOTHERMAL ROOFTOP UNIT TAG NOTES:
1. PROVIDE BALL VALVE WITH A 3/4" HOSE BIBB CONNECTION. PROVIDE WITH GASKETED DUST CAP.
 2. TWO POSITION CONTROL VALVE (FULL PORT). PROVIDE A BELIMO THREE-WIRE, TWO WAY, TWO-POSITION CONTROL VALVE WITH ACTUATOR. COORDINATE WITH TCC.
 3. AUTOMATIC BALANCING VALVES.
 4. FLEXIBLE HOSE.
 5. REFER TO DRAWINGS FOR CONTINUATION OF HPS/HPR PIPING. REFER TO THE PIPING RUNOUT SCHEDULE FOR PROPER SIZING.
 6. INCLUDE SINGLE PRESSURE/TEMPERATURE TEST PORTS.
 7. ISOLATION VALVE.
 8. STRAINER. FURNISH WITH HOSE CONNECTOR BLOW DOWN VALVE. ONLY PROVIDE ON RQ MODELS.
 9. MANUAL AIR VENTS SHALL BE INSTALLED AT THE TOP OF ALL GEOTHERMAL PIPES.
 10. CONNECT HPR PIPE TO FACTORY SUPPLIED ELBOW AND PROVIDE TRANSITION AS REQUIRED.
 11. CONTRACTOR SHALL PROVIDE ISOLATION VALVES WITH THREADED HOSE CONNECTION AND CAP ON FACTORY SUPPLIED STRAINER. APPLICABLE TO RN MODELS ONLY.
 12. REPLACE MANUFACTURER SUPPLIED PIPE ELBOW WITH PIPE TEE. PROVIDE PIPE TRANSITION AS REQUIRED.



BID SET

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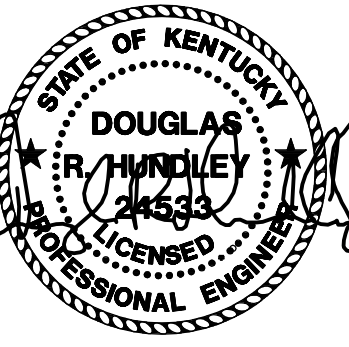
MECHANICAL DETAILS

REVISIONS

DATE: 03.11.2022
DRAWN: BM, LA, HC, NT
CHECKED: CG

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M-6.2



BID SET

MAKE-UP WATER TANK SCHEDULE		
SYMBOL	FT-1	FT-2
MANUFACTURER & MODEL	WESSEL GMP-15050	WESSEL GMP-15050
SERVICE	GEOTHERMAL LOOP	GEOTHERMAL LOOP
STORAGE (GALS)	50.0	100.0
GPM @ 70 (PSI)	1.8	1.8
HP	0.5	0.5
VOLTS / @ / HZ	120/1/60	120/1/60
LOW TANK INDICATOR	YES	YES
LOW TANK AUDIBLE ALARM	YES	YES
NUMBER OF PUMPS	1	2
REMARKS	ALL	ALL

- REMARKS:
1. ALL PUMPS AND TANK LOW LEVEL ALARMS SHALL BE CONNECTED TO BAS. COORDINATE WITH TCC.
 2. FILL TANK WITH PROPYLENE 30% FOOD GRADE GLYCOL SOLUTION AND OTHER WATER TREATMENT CHEMICALS AS REQUIRED.

PUMP SCHEDULE								
SYMBOL	P-1A/B-01	P-2A/B-01	P-1A/B-02	P-2A/B-02	P-3A/B-02	P-1A/B-03	P-1A/B-04	P-2A/B-04
MANUFACTURER & MODEL	TACO F125060	TACO KV20090	TACO F125070	TACO F125090	TACO F125060	TACO F125060	TACO F125060	TACO KV20070
SCHOOL	EUBANK	EUBANK	OAK HILL	OAK HILL	OAK HILL	NANCY	SHOPVILLE	SHOPVILLE
SERVICE	PRIMARY VARIABLE GS/GR CLASSROOM LOOP	PRIMARY VARIABLE GS/GR GYM LOOP	PRIMARY VARIABLE GS/GR KITCHEN LOOP	PRIMARY VARIABLE GS/GR ADMIN LOOP	PRIMARY VARIABLE GS/GR CLASSROOM LOOP	PRIMARY VARIABLE GS/GR LOOP	PRIMARY VARIABLE GS/GR LOOP	PRIMARY VARIABLE GS/GR GYM LOOP
FLUID	30% GLYCOL	30% GLYCOL	WATER	WATER	WATER	30% GLYCOL	30% GLYCOL	30% GLYCOL
TYPE	END-SUCTION CENTRIFUGAL BASE MOUNTED	IN-LINE CENTRIFUGAL PUMP	END-SUCTION CENTRIFUGAL BASE MOUNTED	END-SUCTION CENTRIFUGAL BASE MOUNTED	END-SUCTION CENTRIFUGAL BASE MOUNTED	END-SUCTION CENTRIFUGAL BASE MOUNTED	END-SUCTION CENTRIFUGAL BASE MOUNTED	IN-LINE CENTRIFUGAL PUMP
GPM / TDH	250 / 110	80 / 60	75 / 50	60 / 60	260 / 110	290 / 110	240 / 110	90 / 50
OPERATION	PRIMARY / STAND-BY	PRIMARY / STAND-BY	PRIMARY / STAND-BY	PRIMARY / STAND-BY	PRIMARY / STAND-BY	PRIMARY / STAND-BY	PRIMARY / STAND-BY	PRIMARY / STAND-BY
MOTOR HP / RPM	15 / 3,500	3 / 1,760	2 / 1,760	3 / 1,760	15 / 3,500	15 / 3,500	15 / 3,500	3 / 1,760
VOLTS / PH / HZ	460 / 3 / 60	460 / 3 / 60	460 / 3 / 60	460 / 3 / 60	460 / 3 / 60	208 / 3 / 60	208 / 3 / 60	208 / 3 / 60
EFFICIENCY	74%	69%	72%	56%	79%	79%	78%	78%
IMPELLER DIAMETER	5.7"	7.7"	7.2"	7.6"	5.85"	5.9"	5.7"	7.25"
SUCTION DIFFUSER	5"x3"	NA	3"x2"	3"x2.5"	5"x3"	5"x3"	5"x3"	NA

- REMARKS:
1. PUMP EFFICIENCIES LISTED ARE MINIMUM EFFICIENCIES ACCEPTABLE. DO NOT SUBMIT LESS EFFICIENT PUMPS.
 2. PROVIDE WITH NEOPRENE COUPLERS.
 3. PROVIDE SHIRT GUARD WITH SLOTTED WINDOW. GUARD SHALL BE REMOVABLE.
 4. PROVIDE SUCTION DIFFUSER, CHECK VALVE, SHUT-OFF VALVE AND FLEX CONNECTOR.

VARIABLE FREQUENCY DRIVES - PUMPS								
SYMBOL	VFD-P1A/B-01	VFD-P2A/B-01	VFD-P1A/B-02	VFD-P2A/B-02	VFD-P3A/B-02	VFD-P1A/B-03	VFD-P1A/B-04	VFD-P2A/B-04
MANUF. & MODEL	ABB ACH580	ABB ACH580	ABB ACH580	ABB ACH580	ABB ACH580	ABB ACH580	TACO 2511D	ABB ACH580
SCHOOL	EUBANK	OAK HILL	OAK HILL	OAK HILL	OAK HILL	NANCY	SHOPVILLE	SHOPVILLE
SERVICE	P-1A/B-CLASSROOM	P-2A/B-GYM	P-1A/B-KITCHEN	P-1A/B-ADMIN	P-1A/B-CLASSROOM	P-1A/B-GS/GR	P-1A/B-GS/GR	P-2A/B-GYM
MOTOR HP	15	3	2	3	15	15	15	3
V/ø/HZ	460/3/60	460/3/60	460/3/60	460/3/60	480/3/60	208/3/60	208/3/60	208/3/60
FUSED DISCONNECT	YES	YES	YES	YES	YES	YES	YES	YES
BYPASS STARTER	NO	NO	NO	NO	NO	NO	NO	NO
ENCLOSURE TYPE	NEMA-12	NEMA-12	NEMA-12	NEMA-12	NEMA-12	NEMA-12	NEMA-12	NEMA-12

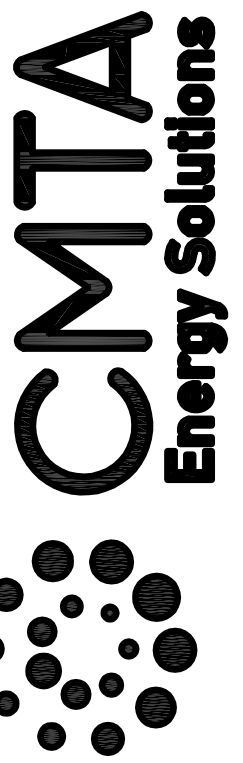
- REMARKS:
1. PROVIDE BACNET INTERFACE FOR INTEGRATION INTO BUILDING AUTOMATION SYSTEM. PROVIDE INPUT POINTS FOR TWO PRESET SPEEDS. PROVIDE TWO PROGRAMMABLE FORM C RELAYS RATED 2 AMPS TO ACTIVATE AT SPEED.
 2. PROVIDE ALL VFD'S WITH A LAMICOID PLATE INDICATING ID#, INCLUDE VFD SPEED FOR REQUIRED FLOW ON PUMP VFD'S.
 3. ACCEPTABLE MANUFACTURERS: ABB, DANFOSS, GRAHAM.
 4. VFD SHALL BE EQUIPPED WITH SOFT-START CAPABILITIES.
 5. PROVIDE WITH FACTORY START-UP UTILIZING MANUFACTURER'S STANDARDS.

AIR AND DIRT SEPARATOR SCHEDULE								
SYMBOL	AS-1-01	AS-2-01	AS-1-02	AS-2-02	AS-3-02	AS-1-03	AS-1-04	AS-2-04
MANUF. & MODEL	TACO 4906AD-125	TACO 4903AD-125	TACO 4903AD-125	TACO 4903AD-125	TACO 4906AD-125	TACO 4906AD-125	TACO 4906AD-125	TACO 4906AD-125
SCHOOL	EUBANK	EUBANK	OAK HILL	OAK HILL	OAK HILL	NANCY	SHOPVILLE	SHOPVILLE
SERVICE	GEOTHERMAL LOOP CLASSROOM	GEOTHERMAL LOOP GYM	GEOTHERMAL LOOP KITCHEN	GEOTHERMAL LOOP ADMIN	GEOTHERMAL LOOP CLASSROOM	GEOTHERMAL LOOP	GEOTHERMAL LOOP	GEOTHERMAL LOOP GYM
UNIT WEIGHT (LBS)	245	75	75	75	245	245	245	90
INLET / OUTLET SIZE	6"	3"	3"	3"	6"	6"	6"	4"
GPM	250	80	90	60	275	300	240	120
MAX WPD	2.0 FT	2.0 FT	2.0 FT	2.0 FT	2.0 FT	2.0 FT	2.0 FT	2.0 FT
ASME RATED	YES	YES	YES	YES	YES	YES	YES	YES

- REMARKS:
1. SEPARATOR MUST UTILIZE A STAINLESS STEEL COALESCING MEDIUM TO AID IN THE SEPARATION OF AIR AND DIRT WITHIN THE ENTRAINED WATER.

EXPANSION TANK SCHEDULE								
GENERAL								
SYMBOL	ET-1-01	ET-2-01	ET-1-02	ET-2-02	ET-3-02	ET-1-03	ET-1-04	
MANUF. & MODEL	TACO MODEL # CX350-125	TACO MODEL # CX170-125	TACO MODEL # CX170-125	TACO MODEL # CX170-125	TACO MODEL # CX350-125	TACO MODEL # CX350-125	TACO MODEL # CX350-125	TACO MODEL # CX350-125
SCHOOL	EUBANK	EUBANK	OAK HILL	OAK HILL	OAK HILL	NANCY	SHOPVILLE	
TYPE	DIAPHRAGM	DIAPHRAGM	DIAPHRAGM	DIAPHRAGM	DIAPHRAGM	DIAPHRAGM	DIAPHRAGM	
SERVICE	GEOTHERMAL LOOP CLASSROOM	GEOTHERMAL LOOP GYM	GEOTHERMAL LOOP KITCHEN	GEOTHERMAL LOOP ADMIN	GEOTHERMAL LOOP CLASSROOM	GEOTHERMAL LOOP	GEOTHERMAL LOOP CLASSROOM	
CAPACITY								
TANK VOLUME	92 GAL	45 GAL	45 GAL	45 GAL	92 GAL	92 GAL	92 GAL	
ACCEPTANCE VOLUME	41 GAL	25 GAL	25 GAL	25 GAL	41 GAL	41 GAL	41 GAL	
UNIT WEIGHT (LBS)	150	109	109	109	150	150	150	
PHYSICAL SIZE	60"H X 24" DIA	44"H X 24" DIA	44"H X 24" DIA	44"H X 24" DIA	60"H X 24" DIA	60"H X 24" DIA	60"H X 24" DIA	
CHARGE PRESSURE	12 PSIG	12 PSIG	12 PSIG	12 PSIG	12 PSIG	12 PSIG	12 PSIG	

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Pulaski County Schools
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MECHANICAL SCHEDULES

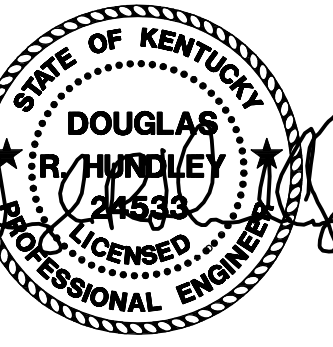
REVISIONS

DATE: 03.11.2022
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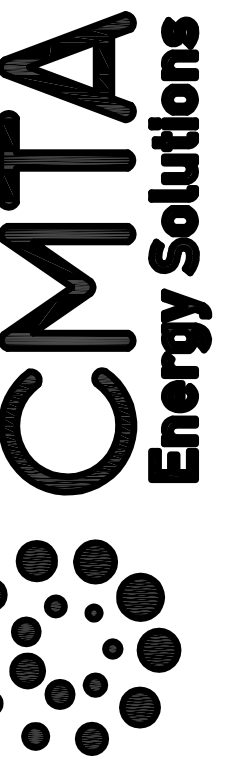
M-7.0

ALL EQUIPMENT ON SHEET M7.1 SHALL BE FURNISHED BY CMTA AND RECEIVED AND INSTALLED BY THE MECHANICAL CONTRACTOR.



BID SET

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Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT

MECHANICAL SCHEDULES

CONSOLE, HORIZONTAL, AND VERTICAL WATER SOURCE HEAT PUMP SCHEDULE (30% GLYCOL)

Table with columns for SYMBOL, MANUFACTURER & MODEL, EQUIPMENT TYPE, REMARKS, UNIT WEIGHT (LBS), NOMINAL CFM / ESP, SUPPLY FAN MOTOR HP, GPM / WPD (FT), # COMPRESSORS / # STAGES, REFRIGERANT, VOLTS / PHASE / HZ, MCA / MAX FUSE, COOLING CAPACITY, and REVERSE CYCLE HEATING CAPACITY. It lists various models from manufacturers like Versatec, Eubank, Shopville/Nancy, and Versatec.

REMARKS:

- 1. PROVIDE SIDE ACCESS FILTER HOUSING TO ACCOMMODATE 24"x24"x2" 30% EFFICIENT MERV 8 PLEATED AND DISPOSABLE FILTER. PROVIDE WITH (3) EXTRA FILTERS. REFER TO DETAIL ON SHEET M-6.1.
2. APPLICABLE TO ALL HORIZONTAL AND VERTICAL HEAT PUMPS.
3. PROVIDE WITH FACTORY MOUNTED FUSED DISCONNECT, APPLICABLE TO ALL CONSOLE UNITS.
4. ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL DISCONNECTS FOR VHP-120 UNITS.
5. PROVIDE WITH WATER TEMPERATURE SENSOR FOR FREEZE PROTECTION.
6. UNITS SHALL BE AHRI CERTIFIED.
7. PROVIDE WITH FACTORY SUPPLIED AURORA BASE CONTROLLER.
8. PROVIDE WITH STAINLESS STEEL CONDENSATE DRAIN PAN AND CONDENSATE OVERFLOW SWITCH. ENTIRE PAN SHALL BE PITCHED TO OUTLET.
9. PROVIDE WITH MANUFACTURER SOUND ATTENUATION PACKAGE.
10. PROVIDE WITH MODULATING HOT GAS REHEAT ON VHP-72 AND VHP-120 UNITS.
11. PROVIDE VHP-06 - VHP-24 WITH 12" STAND.
12. PROVIDE VHP-120 UNITS WITH VFD CONTROLLED / ECM DRIVEN SUPPLY FANS.

CONSOLE, HORIZONTAL, AND VERTICAL WATER SOURCE HEAT PUMP SCHEDULE (NO GLYCOL) - OAK HILL ONLY

Table with columns for SYMBOL, MANUFACTURER & MODEL, EQUIPMENT TYPE, REMARKS, UNIT WEIGHT (LBS), NOMINAL CFM / ESP, SUPPLY FAN MOTOR HP, GPM / WPD (FT), # COMPRESSORS / # STAGES, REFRIGERANT, VOLTS / PHASE / HZ, MCA / MAX FUSE, COOLING CAPACITY, and REVERSE CYCLE HEATING CAPACITY. It lists models from manufacturers like Versatec, Eubank, Shopville/Nancy, and Versatec.

REMARKS:

- 1. PROVIDE SIDE ACCESS FILTER HOUSING TO ACCOMMODATE 24"x24"x2" 30% EFFICIENT MERV 8 PLEATED AND DISPOSABLE FILTER. PROVIDE WITH (3) EXTRA FILTERS. REFER TO DETAIL ON SHEET M-6.1.
2. APPLICABLE TO ALL HORIZONTAL AND VERTICAL HEAT PUMPS.
3. PROVIDE WITH FACTORY MOUNTED FUSED DISCONNECT, APPLICABLE TO ALL CONSOLE UNITS.
4. ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL DISCONNECTS FOR VHP-120 UNITS.
5. PROVIDE WITH WATER TEMPERATURE SENSOR FOR FREEZE PROTECTION.
6. UNITS SHALL BE AHRI CERTIFIED.
7. PROVIDE WITH FACTORY SUPPLIED AURORA BASE CONTROLLER.
8. PROVIDE WITH STAINLESS STEEL CONDENSATE DRAIN PAN AND CONDENSATE OVERFLOW SWITCH. ENTIRE PAN SHALL BE PITCHED TO OUTLET.
9. PROVIDE WITH MANUFACTURER SOUND ATTENUATION PACKAGE.
10. PROVIDE WITH MODULATING HOT GAS REHEAT ON VHP-72 AND VHP-120 UNITS. COORDINATE HUMIDITY SENSOR AND SEQUENCE WITH TCC.
11. PROVIDE VHP-06 - VHP-24 WITH 12" STAND.
12. PROVIDE VHP-120 UNITS WITH VFD CONTROLLED / ECM DRIVEN SUPPLY FANS.

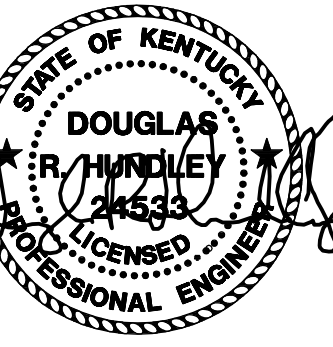
REVISIONS

Table with columns for REVISIONS, DATE, DRAWN BY, and CHECKED BY.

DATE: 03.11.2022
DRAWN BY: BA, LA, HC, NT
CHECKED: CG

SET NO.

M-7.1



ALL EQUIPMENT ON SHEET M7.3 SHALL BE FURNISHED BY CMTA AND RECEIVED AND INSTALLED BY THE MECHANICAL CONTRACTOR.

BID SET

OUTSIDE AIR UNIT SCHEDULE

SYMBOL	OAU-1-01	OAU-2-01	OAU-3-01	OAU-4-01	OAU-1-02	OAU-2-02	OAU-3-02	OAU-1-03	OAU-2-03	OAU-3-03	OAU-1-04	OAU-2-04	OAU-3-04	OAU-4-04
TYPE OF SYSTEM	100% OUTSIDE AIR													
MANF. & MODEL	DAIKIN - DPS005A													
CONFIGURATION	ROOFTOP													
SINGLE POINT CONNECTION	YES													
VOLTAGE / PHASE	460 / 3ø													
MCA / MOP / FLA	29.4 / 30 / 24.4													
CURB ADAPTER/TYPE	NO/INSULATED PLENUM CURB													
MIN. CURB HEIGHT	-													
UNIT WEIGHT (LBS)	1503													
REMARKS (SEE NOTES BELOW)	ALL													
OUTSIDE AIR FAN														
DESIGN CFM / CONNECTED CFM / RPM	1,400 / 1175 / 2055													
TYPE	SWSI AF													
TSP / ESP	2.50 / 0.5													
HP	2.3													
DRIVE/STARTER	DIRECT / YES													
EXHAUST AIR FAN														
DESIGN CFM / CONNECTED CFM / RPM	1,125 / 1175 / 2004													
TYPE	SWSI AF													
TSP / ESP	2.5 / 0.5													
HP	1.3													
DRIVE/STARTER	DIRECT/YES													
ENERGY RECOVERY WHEEL														
HP	0.17													
STARTER	YES													
MINIMUM EFFECTIVENESS	67.0%													
OUTSIDE AIR SIDE														
CFM	1,400													
EAT - SUMMER (DB/WB)	95.0 F / 78.0 F													
LAT - SUMMER (DB/WB)	81.3 F / 68.7 F													
EAT - WINTER (DB/WB)	7.0 F / 6.0 F													
LAT - WINTER (DB/WB)	42.4 F / 35.6 F													
EXHAUST AIR SIDE														
CFM	1125													
EAT - SUMMER (DB/WB)	72 F / 60 F													
EAT - WINTER (DB/WB)	70 F / 53 F													
DX COIL														
TOTAL COOLING CAP. (GROSS MBH)	66.6													
SENSIBLE COOLING CAP. (GROSS MBH)	42.5													
MAX. FACE VELOCITY	231.8 FPM													
TOTAL CFM	1,400													
EAT - SUMMER (DB/WB)	81.3 F / 68.7 F													
LAT - SUMMER (DB/WB) (COIL)	53.5 F / 53.5 F													
HOT GAS RE-HEAT COIL														
CAPACITY (MBH)	22.7													
LAT (DB/WB)	70.0 F / 59.7 F													
RH	57%													
DX HEAT PUMP COIL														
CAPACITY (MBH)	29.1													
EAT (DB)	45.0 F													
LAT (DB)	64.0 F													
AUXILIARY ELECTRIC HEATER														
TOTAL CAPACITY (MBH)	41.0													
EAT - WINTER (DB)	42.4 F													
LAT - WINTER (DB)	69.3 F													
HEATER FLA	14.4													
KW	12.0													
DISPOSABLE PRIMARY FILTER														
MANUFACTURER	FARR													
MODEL/TYPE	30-30/DISPOSABLE													
EFFICIENCY/TEST METHOD	30%/ASHRAE 52-76													
CFM/VELOCITY	1,400/197.2													
SIZE (W" x H" x D")	AS REQUIRED													
RESISTANCE (ALLOWANCE)	0.25" WG													

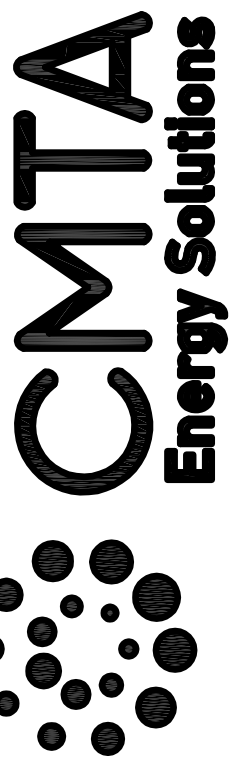
- REMARKS:
- PROVIDE WITH DOWNFLOW DUCT CONNECTIONS.
 - UNITS SHALL BE AHRI CERTIFIED.
 - PROVIDE DUCT SMOKE DETECTORS FOR SUPPLY AND RETURN AIR STREAMS FOR ALL UNITS 2000 CFM AND GREATER. REFER TO THE FLOOR PLANS FOR ADDITIONAL INFORMATION.
 - PROVIDE NON-FUSED DISCONNECT AND SINGLE POINT POWER CONNECTION.
 - EQUIPMENT VENDOR RESPONSIBLE FOR PURCHASE AND INSTALLATION OF BI-POLAR IONIZATION DEVICE ON ALL UNITS. THIS DEVICE SHALL BE GLOBAL PLASMA AIR MODEL QPS-FC-3-BAS OR EQUAL.
 - PROVIDE WITH DIGITAL SCROLL OR VARIABLE SPEED COMPRESSORS.
 - PROVIDE WITH VFD CONTROLLED AND ECM DRIVEN FANS.
 - EXHAUST FAN SHALL TRACK OUTSIDE AIR FAN. COORDINATE WITH TCC AND TAB CONTRACTOR.
 - PROVIDE TERMINAL STRIP FOR CONNECTION TO FIELD MOUNTED, WIRED, PROGRAMMED CONTROLLER. COORDINATE WITH TCC. PROVIDE WITH FACTORY COMPRESSOR SAFETIES.
 - THE UNIT SHALL INCLUDE PROVISIONS FOR SHUTDOWN UPON ACTIVATION OF EITHER FIRE ALARM OR THE DUCT SMOKE DETECTOR (IF PRESENT). COORDINATE WITH TCC. FIRE ALARM CABLEING SHALL BE PULLED BY THE ELECTRICAL CONTRACTOR AND BE TERMINATED BY TCC.
 - PROVIDE WITH SCR ELECTRIC HEAT CONTROLS.
 - SUPPLY STAINLESS STEEL W/ CONDENSATE DRAIN PAN. ENTIRE PAN SHALL BE PITCHED TO OUTLET.
 - ENTIRE UNIT SHALL BE DOUBLE WALL CONSTRUCTION.
 - PROVIDE WITH A 120V SERVICE OUTLET.
 - PROVIDE WITH INSULATED CURB.
 - PROVIDE WITH (4) SETS OF MERV-8 FILTERS.

OUTDOOR AIR VAV BOX SCHEDULE

GENERAL				
SYMBOL	VAV-05	VAV-06	VAV-08	VAV-10
MANUFACTURER & MODEL	TITUS DESV05	TITUS DESV06	TITUS DESV08	TITUS DESV10
BOX TYPE	SINGLE INLET VAV	SINGLE INLET VAV	SINGLE INLET VAV	SINGLE INLET VAV
TOTAL APD AT MAXIMUM CFM	0.25" WG	0.25" WG	0.25" WG	0.25" WG
VOLUME CONTROL DAMPER				
MAXIMUM AIRFLOW	150	350	700	1050
MINIMUM AIRFLOW	45	140	280	420
INLET SIZE	5"	6"	8"	10"
LEAKAGE RATE AT 2.0" SP	2.0%	2.0%	2.0%	2.0%
PRESSURE INDEPENDENT CONTROLS	YES	YES	YES	YES

- REMARKS:
- ALL BOXES SHALL BE SINGLE WALL WITH 1/2" FOIL FACED INSULATION.
 - PROVIDE EACH BOX WITH AN INDEPENDENT CONTROLLER. NO BOX SHALL BE OPERATED BY ANOTHER CONTROLLER LOCATED ON ANOTHER BOX.

9519 Civic Way, Suite 100
Prospect, KY 40059
T: 502 4094062, F: 502 9191521
M: brangser@cmta.com



Pulaski County Schools
GUARANTEED ENERGY SAVINGS CONTRACT
MECHANICAL SCHEDULES

REVISIONS

SET NO.

M-7.3

"General Decision Number: KY20220034 01/07/2022

Superseded General Decision Number: KY20210034

State: Kentucky

Construction Type: Building

County: Pulaski County in Kentucky.

BUILDING CONSTRUCTION PROJECTS (does not include single family homes or apartments up to and including 4 stories).

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022, Executive Order 14026 generally applies to the contract. The contractor must pay all covered workers at least \$15.00 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2022.

If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022, Executive Order 13658 generally applies to the contract. The contractor must pay all covered workers at least \$11.25 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2022.

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at www.dol.gov/whd/govcontracts.

Modification Number Publication Date

0

01/07/2022

ASBE0046-002 03/01/2021

	Rates	Fringes
ASBESTOS WORKER/HEAT & FROST INSULATOR.....	\$ 25.59	12.84

BOIL0040-001 01/01/2021

	Rates	Fringes
BOILERMAKER.....	\$ 37.60	27.49

CARP1650-007 06/01/2021

	Rates	Fringes
CARPENTER (Includes Form Work)	\$ 30.43	22.05

ELEC0317-005 06/01/2021

	Rates	Fringes
ELECTRICIAN.....	\$ 35.10	27.47

ELEV0011-001 01/01/2018

	Rates	Fringes
ELEVATOR MECHANIC.....	\$ 44.31	32.645

PAID HOLIDAYS:

- a. New Year's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, the Friday after Thanksgiving, and Christmas Day.
- b. Employer contributes 8% of regular hourly rate to vacation pay credit for employee who has worked in business more than 5 years; 6% for less than 5 years' service.

ENGI0181-083 06/01/2021

	Rates	Fringes
POWER EQUIPMENT OPERATOR (Bobcat/Skid Steer/Skid Loader)	\$ 33.51	17.85

ENGI0181-084 06/01/2021

	Rates	Fringes
POWER EQUIPMENT OPERATOR (Oiler).....	\$ 29.70	17.85

ENGI0181-085 06/01/2021

	Rates	Fringes
POWER EQUIPMENT OPERATOR (Crane).....	\$ 34.60	17.85

CRANES WITH BOOM 150 FEET & OVER, INCLUDING JIB, SHALL RECEIVE \$.75 ABOVE THE WAGE RATE.
ALL CRANES WITH PILING LEADS WILL RECEIVE \$.50 ABOVE THE WAGE, REGARDLESS OF BOOM LENGTH.

ENGI0181-086 06/01/2021

	Rates	Fringes
POWER EQUIPMENT OPERATOR (Forklift).....	\$ 33.51	17.85

ENGI0181-092 06/01/2021

	Rates	Fringes
POWER EQUIPMENT OPERATOR (Bulldozer).....	\$ 33.51	17.85

IRON0769-005 06/01/2021

	Rates	Fringes
IRONWORKER, REINFORCING		
ZONE 1.....	\$ 33.00	27.29
ZONE 2.....	\$ 33.40	27.29
ZONE 3.....	\$ 35.00	27.29

ZONE 1 - (no base rate increase) Up to 10 mile radius of Union Hall, 1643 Greenup Ave, Ashland, KY.

ZONE 2 - (add \$0.40 per hour to base rate) 10 to 50 mile radius of Union Hall, 1643 Greenup Ave, Ashland, KY.

ZONE 3 - (add \$2.00 per hour to base rate) 50 mile radius & over of Union Hall, 1643 Greenup Ave, Ashland, KY.

LABO0189-007 06/01/2021

	Rates	Fringes
LABORER (Pipelayer)	\$ 24.96	14.57

LABO0576-012 07/01/2021

	Rates	Fringes
LABORER (Mason Tender - Cement/Concrete)	\$ 21.23	11.64

LABO0576-014 07/01/2021

	Rates	Fringes
LABORER (Carpenter Tender, Common or General)	\$ 21.03	11.64

LABO1392-004 07/01/2020

	Rates	Fringes
LABORER (Mason Tender - Brick)	\$ 23.19	14.22

PAIN1072-005 12/01/2018

	Rates	Fringes
PAINTER (Spray Only)	\$ 27.76	18.50

* PLUM0452-014 11/01/2021

	Rates	Fringes
PIPEFITTER.....	\$ 35.00	20.34

SFKY0669-001 04/01/2021

	Rates	Fringes
SPRINKLER FITTER (Fire Sprinklers)	\$ 37.85	22.07

* SHEE0110-006 06/01/2021

	Rates	Fringes
SHEET METAL WORKER (Excludes HVAC Duct Installation)	\$ 33.74	23.31

 * UAVG-KY-0007 01/01/2019

	Rates	Fringes
IRONWORKER, ORNAMENTAL.....	\$ 29.95	23.89

 * UAVG-KY-0008 01/01/2020

	Rates	Fringes
LABORER: Power Tool Operator.....	\$ 26.52	16.51

 SUKY2015-017 06/02/2015

	Rates	Fringes
BRICKLAYER.....	\$ 24.61	11.88

CEMENT MASON/CONCRETE FINISHER.....	\$ 27.99	0.00
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IRONWORKER, STRUCTURAL.....	\$ 22.31	15.40
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OPERATOR:

Backhoe/Excavator/Trackhoe.....	\$ 21.11	13.00
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OPERATOR: Grader/Blade.....	\$ 24.33	13.00
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PAINTER (Brush and Roller)	\$ 18.20	6.43
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PLUMBER.....	\$ 33.41	16.67
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ROOFER.....	\$ 22.31	7.41
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SHEET METAL WORKER (HVAC Duct Installation Only)	\$ 25.91	8.06
TILE FINISHER.....	\$ 17.67	7.45
TILE SETTER.....	\$ 25.77	6.10
TRUCK DRIVER: Dump Truck.....	\$ 17.07	6.25

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses

(29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that

classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union, which prevailed in the survey for this classification, which in this example would be Plumbers 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- an existing published wage determination
- a survey underlying a wage determination
- a Wage and Hour Division letter setting forth a position on
- a wage determination matter

- a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Division National Office Branch of Wage Surveys. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION"