

## ADDENDUM NO. 1

Date: November 11, 2021

This Addendum applicable to work designated herein shall be understood to be and is an Addendum and as such shall be part of and included in the Contract.

To all bidders for furnishing all labor and materials necessary for:

**Hobbs Middle School HVAC Replacement  
Shelley School District No. 60  
Shelley, Idaho**

Failure to acknowledge receipt of this Addendum on the bid proposal form may result in rejection of your bid.

### General Items:

1. Contract shall be awarded in December, after which contractor can begin ordering materials and equipment. The school will be available nights, weekends and Fridays up to May 10, 2022. Any work done before May 10, 2022 cannot impede the ability for the school to function properly and safely. After May 10, 2022 the school will be fully available for work to proceed.
2. Contractor to protect all existing finishes that are not being removed during demolition and construction.
3. School district shall provide on site storage for materials and equipment.
4. Parking around the building may be used as laydown areas after May 10, 2022. Lawn areas shall not be used for laydown.

### Mechanical Items:

1. Sheets MD1.11-MD1.20. Keynote M50 to be applied to every wall penetration of duct that is to be removed.
2. Sheet MD1.13. There is existing ductwork serving the library return grilles in the existing dropped soffit that will require removal. Assume removal of 20"x20" duct connecting the two return grilles and extending into the corridor.
3. See revised Sheet MD1.30
  - a. Refer to clouded changes in the attached sheet.
4. See revised Sheets M1.00-M1.30
  - a. Refer to clouded changes in the attached sheets.



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5. See revised Sheets M2.11-M2.20
  - a. Refer to clouded changes in the attached sheets.
6. See revised Sheet M6.10
  - a. Refer to clouded changes in the attached sheet.

**Electrical Items:**

1. Sheets E1.10 and E1.11-E1.20. Plan note A revised to read:

All existing lighting is to be removed and replaced with New led lighting, UNO. For all rooms and spaces where the existing lay-in ceiling is being removed, the contractor is responsible to remove existing light fixtures. For all other spaces, light fixtures will be removed by owner (Shelley School District). Contractor to ensure branch circuiting to all removed light fixtures (by owner and contractor), and that is not to be re-used, is properly demolished and disconnected or capped. Refer to architectural drawings for ceiling demolition information
2. Sheet E6.10. Light Fixture Schedule General Notes: Note 13 added to read:

All fixtures included in this schedule are to be provided by Owner (Shelley School District). Contractor responsible for Installing owner provided fixtures.

**Attachments:**

The Addendum consists of: 02 page(s). The attached Documents consist of – Pre-bid Conference Agenda, Pre-bid Conference Signup Sheet, MD1.30, M1.00, M1.11, M1.12, M1.13, M1.20, M1.30, M2.11, M2.12, M2.13, M2.20, M6.10

**END OF ADDENDUM NO. 1**

## Pre-bid Conference

November 04, 2021  
**HOBBS MIDDLE SCHOOL**  
**HVAC REPLACEMENT**

<b>Architect's Project Manager:</b> James Wyatt ph - 208-522-8779 fax - 208-522-8785	<b>Project description:</b>  HVAC Replacement	
<b>Building square footage:</b> 67,260 s.f.	<b>Bid submission date and time:</b> November 18, 2021, at 3:30 PM	<b>Bid submission location:</b> Shelley School Board Room Dean Goodsell Elementary School 185 West Center Street Shelley, ID 83274
<b>Building permit issued by:</b> DBS	<b>Construction Time:</b> Completed by August 1, 2022	<b>Liquidated damages/ day:</b> \$500.00
<b>Unusual conditions:</b>		
<b>Addendum items:</b>		

1. **Bidders List:**
  - a.
2. **Bidding Information:**
  - a. The successful bidder must supply:
    - 1) Workers Compensation Insurance\*
    - 2) Commercial Liability Insurance\*
    - 3) Automobile Liability Insurance\*
    - 4) Bid Bonds\* (5%)
    - 5) Performance and Payment Bonds \* (100%)

\* The cost of the above to be included in the contractor's bid.
3. **Addenda:**
  - a. All addenda will be issued by the Architect, by email if possible, at least two (2) days prior to bid opening.
  - b. All verbal agreements or instructions must be confirmed by written addenda.
  - c. Contractors are to bid the contract documents. Review documents carefully. Additional payments to the Contractor will not be made for items shown or specified in documents.



Scott L. Nielson, A.I.A. Kevin R. Bodily, A.I.A. James H. Wyatt, A.I.A.  
Members of the American Institute of Architects

- d. Requests for clarification shall be in writing and received by the architect four (4) working days minimum prior to bid opening.

4. **Bid Opening:**

- a. Sealed bids will be accepted up to the specified time. Bidding will be closed at the exact specified time. Any or all Bids may be rejected by the Owner without cause. Bids will be opened and reviewed in an open meeting following the time for receipt of bids.
- b. Bids are to be submitted as outlined in the Project Manual.
- c. The bid form used will be the form provided. Faxed bids are not acceptable.
- d. The Owner reserves the right to reject any or all bids and to waive any irregularity therein.
- e. If all addenda are not acknowledged by number (1,2,3, etc.), on the bid form or if the bid form is not signed, all blanks not filled in or otherwise improperly filled out, the bid will be considered non-responsive.
- f. The bid amount is to be listed in both written and numerical form. If there is a discrepancy between the two, the written amount will be used.

5. **Additional Items of Discussion:**

- a. No substitutions of materials or products not authorized by addendum.
- b. Review drawings and specs.
- c. Additional sets of plans available.

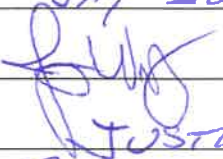


6. **Questions**

## Pre-Bid Conference Sign-in Sheet

Project Name: Shelley School District #60 - Hobbs Middle School, Shelley, ID

In Attendance:

Company:

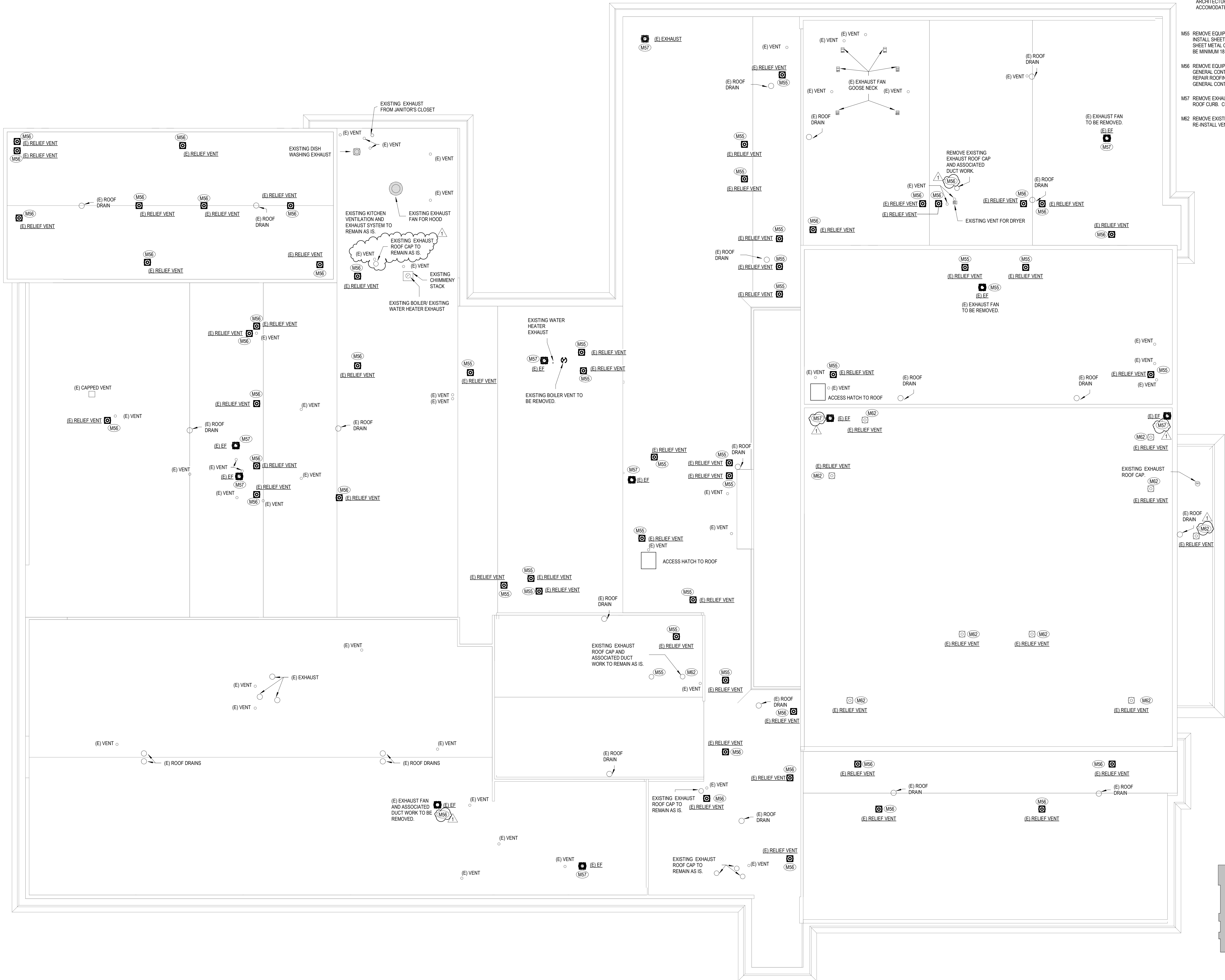
1. JAY JONES
2. 
3. JUSTIN JUDY
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BATEMAN-HALL, INC  
NBW  
ESZ  
NBW  
Shelley School

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MECHANICAL DEMOLITION ROOF PLAN

SCALE: 3/32" = 1'-0"

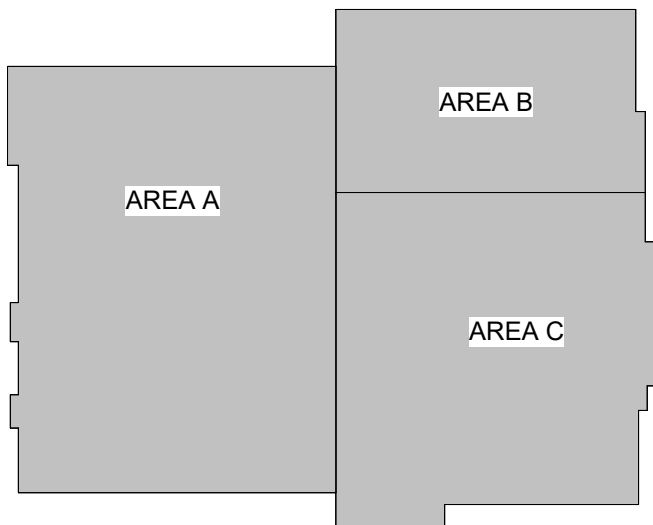


PLAN NOTES

- A. EXISTING DUCTWORK LOCATIONS AND SIZES ARE SHOWN FOR REFERENCE AND ARE BASED ON PREVIOUS DRAWINGS AND SITE VISIT. VERIFY LOCATIONS AND SIZES IN FIELD.
- B. ALL EXISTING RELIEF VENTS TO BE REMOVED AND PATCHED BY THE GENERAL CONTRACTOR. RELIEF VENTS ON GYM ROOF TO REMAIN AS IS.
- C. ALL ROOF CURBS THAT ARE TO REMAIN IN AREAS S AND S AS INDICATED IN THE ARCHITECTURAL PLANS, MUST HAVE 8" CURB EXTENSIONS INSTALLED TO ACCOMMODATE FUTURE ROOF INSULATION.

KEYNOTES

- M55 REMOVE EQUIPMENT OR VENT COMPLETE INCLUDING ASSOCIATED DUCTWORK. INSTALL SHEET METAL CAP OVER EXISTING ROOF CURB. ROOF CURB TO REMAIN. SHEET METAL CAP TO BE SLOPED TO NOT ALLOW MOISTURE ACCUMULATION AND BE MINIMUM 18 GAUGE GALVANIZED STEEL AND SEALED WEATHER TIGHT TO CURB.
- M56 REMOVE EQUIPMENT OR VENT COMPLETE INCLUDING ASSOCIATED DUCTWORK. GENERAL CONTRACTOR TO REMOVE ROOF CURB, INFILL OPENING, AND PATCH AND REPAIR ROOFING. COORDINATE ALL LOCATIONS AND REQUIREMENTS WITH GENERAL CONTRACTOR.
- M57 REMOVE EXHAUST FAN COMPLETE. NEW EXHAUST FAN TO MOUNT TO EXISTING ROOF CURB. COVER AND PROTECT ROOF CURB OPENING DURING CONSTRUCTION.
- M62 REMOVE EXISTING VENT/ROOF CAP AND PROVIDE 8" CURB EXTENSION AND RE-INSTALL VENT/ROOF CAP.



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HVAC REPLACEMENT TO:  
**HOBBS MIDDLE SCHOOL**  
SHELLEY SCHOOL DISTRICT NO. 60  
545 SEMINARY AVENUE, SHELLEY, IDAHO 83274  
MECHANICAL ROOF DEMOLITION PLAN

PROJECT:

REVISIONS		
1	Addendum#1	11/10/21

PROJECT NO.  
21015  
DATE:  
10/29/2021  
DRAWN BY:  
JM  
CHECKED BY:  
TM

DRAWING NO.:

MD1.30

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KEYNOTES

- M60 EQUIPMENT TO BE PLACED ON CONCRETE PAD/ CURB. GENERAL CONTRACTOR TO BUILD PAD/CURB. REFER TO ARCHITECTURAL PLANS FOR DETAILS.
- M61 GENERAL CONTRACTOR WILL SAW-CUT OR CORE-DRILL OPENINGS THROUGH EXISTING WALL, CEILING, OR ROOF. COORDINATE ALL LOCATIONS AND REQUIREMENTS WITH GENERAL CONTRACTOR.

KEYNOTES

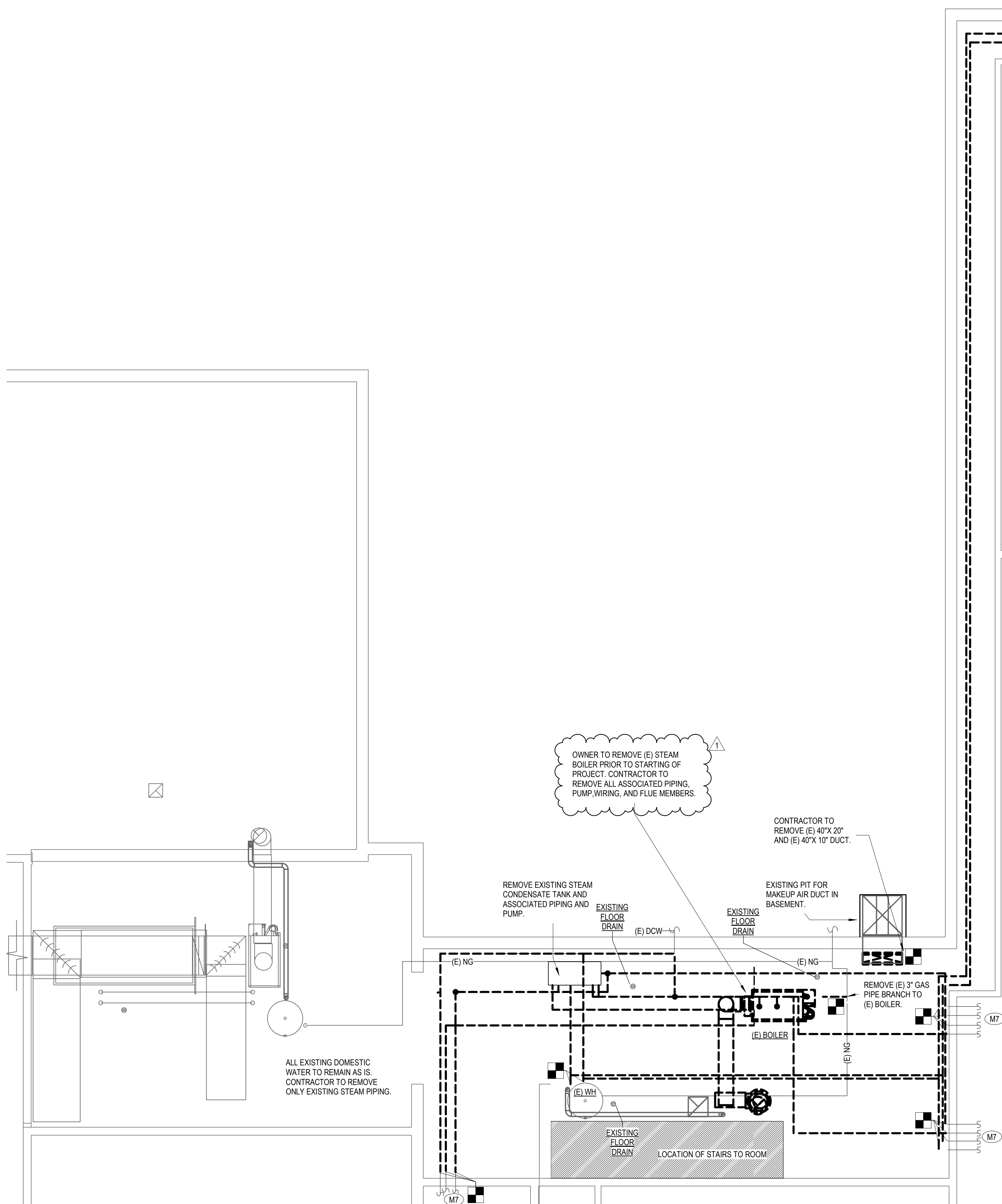
- M13 CONTRACTOR TO ROUTE 6" HHPR TIGHT TO CEILING. BOILER COMBUSTION AIR TO RUN UNDER HHPR AND CONNECT INTO EXISTING 40"x40".
- M20 CONTRACTOR TO ROUTE 6" HHPS TIGHT TO CEILING. BOILER VENT TO RUN UNDER HHPS INTO SHAFT.
- M29 PIPING TO BE SLOPED BACK TO BASEMENT MECHANICAL ROOM.

KEYNOTES

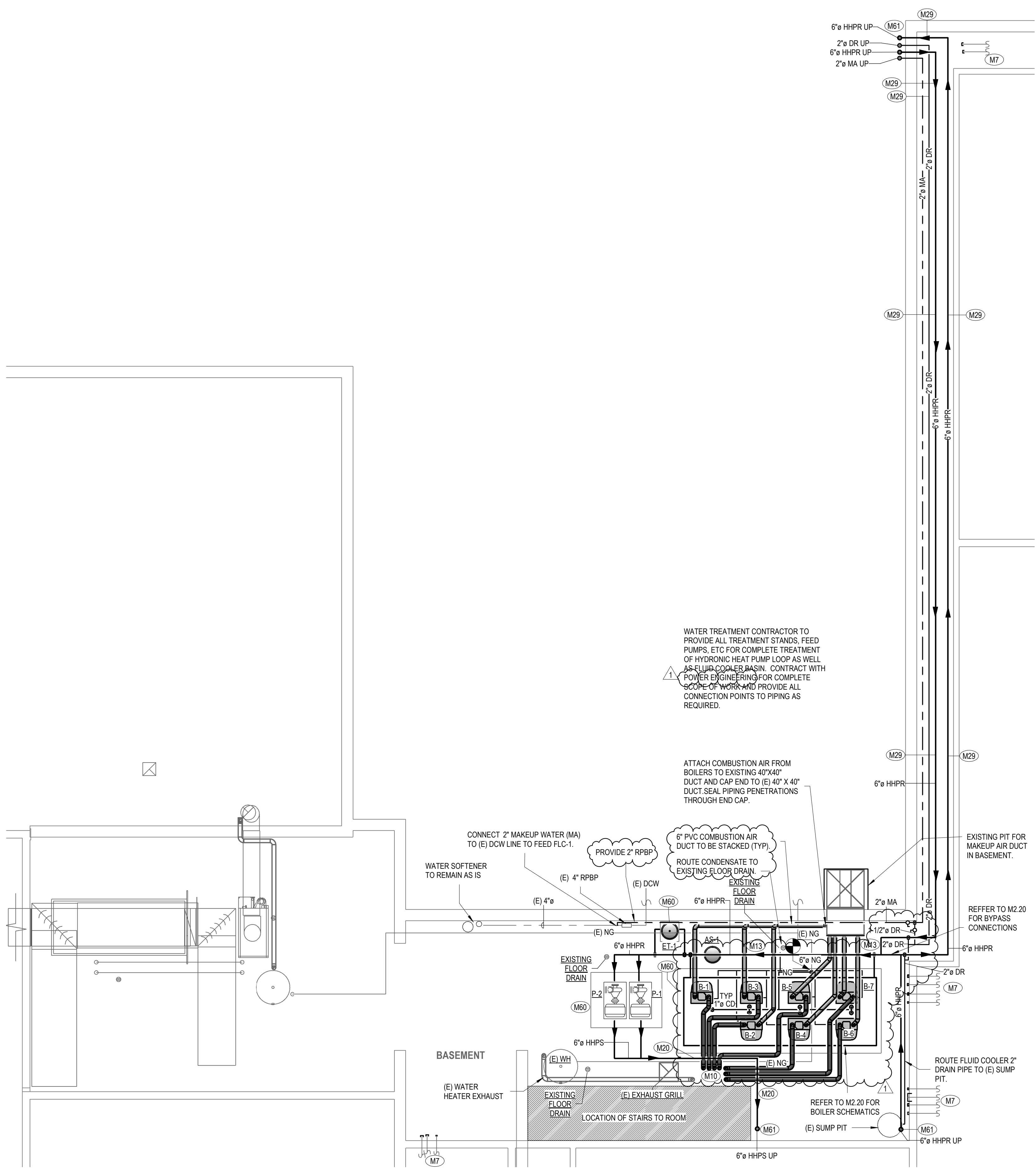
- M7 EXISTING PIPING IN TUNNEL TO BE CAPPED AND PIPING IN BOILER ROOM TO BE REMOVED.
- M10 INSTALL VENT FROM BOILER VERTICALLY UP TO ROOF PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. CONTRACTOR TO ENSURE VENT LENGTH REMAIN LESS THAN 100 EQUIVALENT FEET. FIELD VERIFY FINAL ROUTING. COORDINATE FINAL TERMINATION LOCATION WITH GENERAL CONTRACTOR TO MAINTAIN MIN 10' HORIZONTAL SEPARATION FROM FRESH AIR INTAKE INTO BUILDING AND MINIMUM 3' FROM OPERABLE OPENING INTO THE BUILDING. PROVIDE UL LISTED FIRE COLLAR AT RATED ASSEMBLY PENETRATIONS.

PLAN NOTES

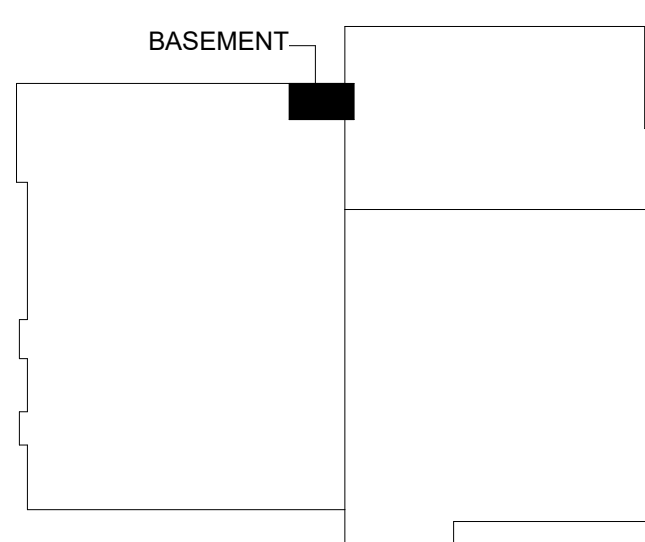
- A. EXISTING DUCTWORK LOCATIONS AND SIZES ARE SHOWN FOR REFERENCE AND ARE BASED ON PREVIOUS DRAWINGS AND SITE VISITS. VERIFY LOCATIONS AND SIZES IN FIELD.
- B. ALL EXISTING HVAC EQUIPMENT, DUCTWORK, AND PIPING TO REMAIN ABANDONED IN PLACE UNLESS NOTED OTHERWISE. THE OWNER WILL REMOVE ALL EXISTING EQUIPMENT, DUCTWORK, AND PIPING THAT IS NOT CONFLICTING WITH THE NEW SCOPE OF WORK. CONTRACTOR IS RESPONSIBLE TO REMOVE ALL HVAC EQUIPMENT, DUCTWORK, OR PIPING NECESSARY TO COMPLETE THEIR SCOPE OF WORK. CONTRACTOR IS TO COMPLETELY DRAIN ALL EXISTING STEAM AND CONDENSATE PIPING IN THE BUILDING. EXISTING EQUIPMENT TO REMAIN WILL NOT BE SHOWN ON NEW WORK PLANS.
- C. CORRIDORS WALLS ARE 1-HOUR FIRE RATED.



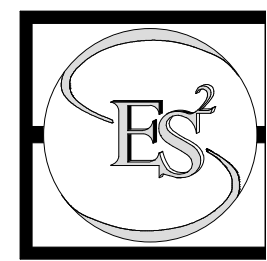
2 PARTIAL MECHANICAL BASEMENT DEMOLITION FLOOR PLAN  
M1.00 NO SCALE



1 PARTIAL MECHANICAL BASEMENT FLOOR PLAN  
M1.00 NO SCALE



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PROJECT:

HVAC REPLACEMENT TO:  
**HOBBS MIDDLE SCHOOL**  
SHELLEY SCHOOL DISTRICT NO. 60  
545 SEMINARY AVENUE, SHELLEY, IDAHO 83274  
PARTIAL MECHANICAL BASEMENT

REVISIONS  
1 Addendum#1 11/10/21

PROJECT NO.  
21015  
DATE:  
10/29/2021  
DRAWN BY:  
JM  
CHECKED BY:  
TM

DRAWING NO.:

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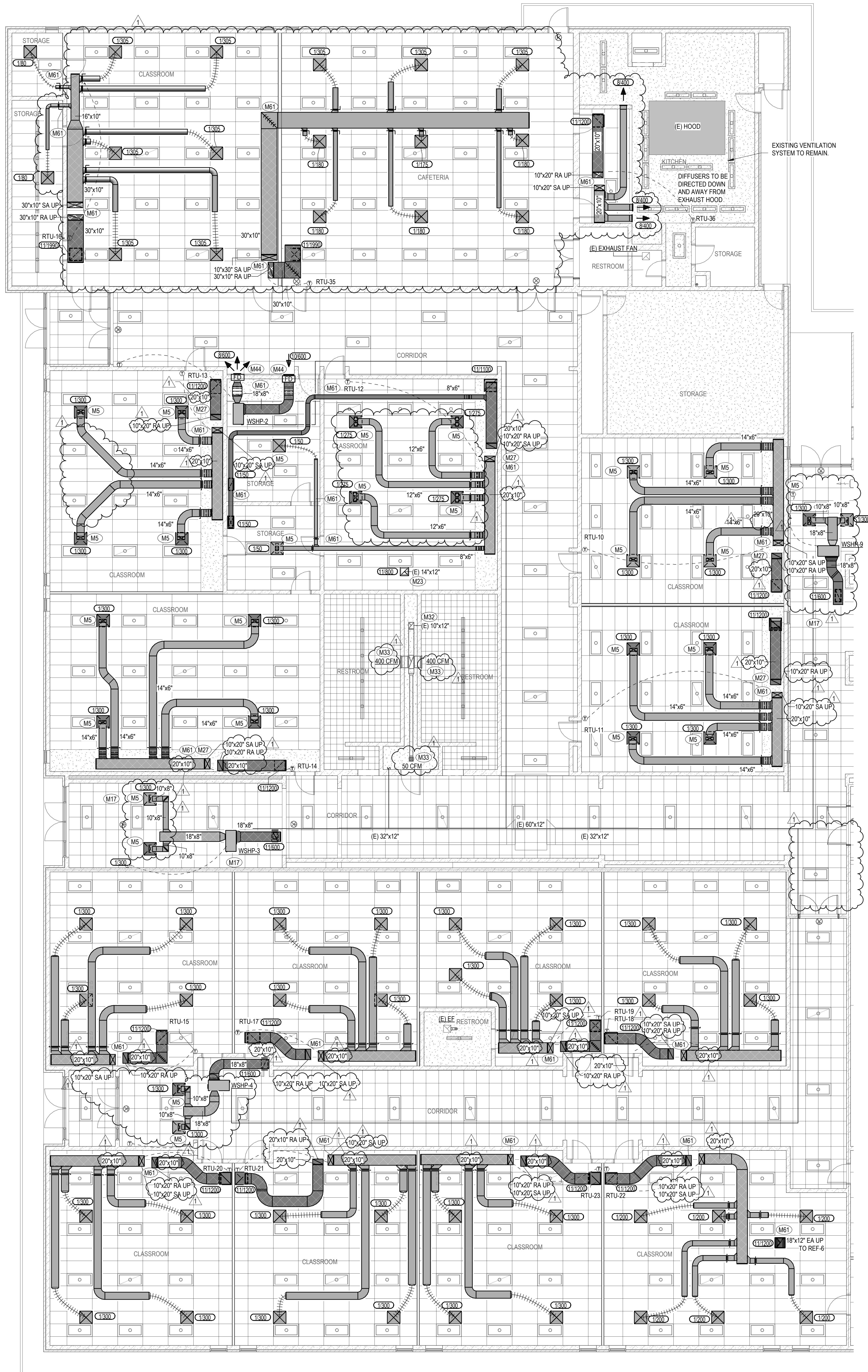
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PARTIAL MECHANICAL 1ST FLOOR- A

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

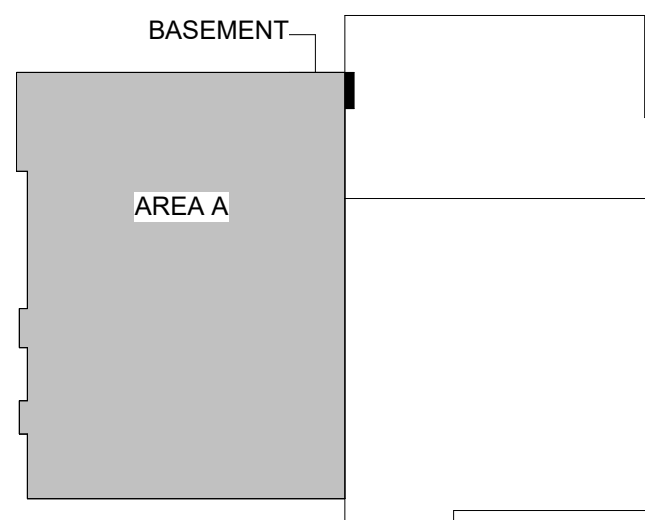


PLAN NOTES

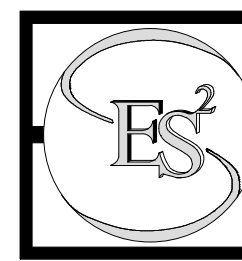
- DO NOT FABRICATE OR PURCHASE DUCTWORK OR EQUIPMENT PRIOR TO CONFIRMING ALL ROUTING, SIZING, AND INSTALLATION REQUIREMENTS WITH EXISTING CONDITIONS AND ALL TRADES.
- PROVIDE A SEPARATE DUCT RUNOUT FROM EACH AIR DEVICE TO THE NEAREST DUCT MAIN. DUCT RUNOUTS TO MATCH AIR DEVICE NECK SIZE UNLESS NOTED OTHERWISE.
- COORDINATE ALL CUTTING, REPAIRING, AND PATCHING OF WALLS, CEILINGS, AND ROOFS WITH GENERAL CONTRACTOR.
- CORRIDORS WALLS ARE 1-HOUR FIRE RATED.

KEYNOTES

- PROVIDE PLENUM BOX ABOVE DIFFUSERS. ROUTE SUPPLY DUCTWORK TO PLENUM BOX.
- ALL WORK IN CORRIDORS WILL BE ABOVE EXISTING LAY-IN GRID CEILINGS. SCOPE OF ACCESS AND INSTALLATION IS MEANS AND METHODS AND MUST BE ACCOUNTED FOR IN SCOPE OF WORK. CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE TO CEILING TILE, FRAME, OR WALLS. REPAIR, PATCH, AND PAINT TO MATCH EXISTING.
- CONNECT NEW EXHAUST GRILL TO EXISTING DUCT WORK AND CONNECT BOTH NEW EXHAUST GRILL AND EXISTING DUCT WORK TO NEW ROOF EXHAUST FAN. REFER TO SIZE ON PLAN FOR EXISTING DUCT SIZE.
- MAIN DUCT TO BE RAN IN SOFFIT. BRANCH RUN OUTS TO BE RAN ABOVE NEW DROP CEILING. REFER TO ARCHITECTURAL PLANS FOR SOFFIT LOCATIONS AND HEIGHTS.
- TRANSITION (E) DUCT TO NEW ROOF EXHAUST FAN. REFER TO SIZE ON PLAN FOR EXISTING DUCT SIZE.
- BALANCE DIFFUSER TO CFM NOTED ON DRAWINGS.
- CMU WALL WITH 1 HOUR FIRE RATING.
- GENERAL CONTRACTOR WILL SAW-CUT OR CORE-DRILL OPENINGS THROUGH EXISTING WALL, CEILING, OR ROOF. COORDINATE ALL LOCATIONS AND REQUIREMENTS WITH GENERAL CONTRACTOR.



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**HOBBS MIDDLE SCHOOL**  
SHELLEY SCHOOL DISTRICT NO. 60  
545 SEMINARY AVENUE, SHELLEY, IDAHO 83274

PARTIAL MECHANICAL FLOOR PLAN-1ST FLOOR (AREA A)

PROJECT:

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1	Addendum#1	11/10/21

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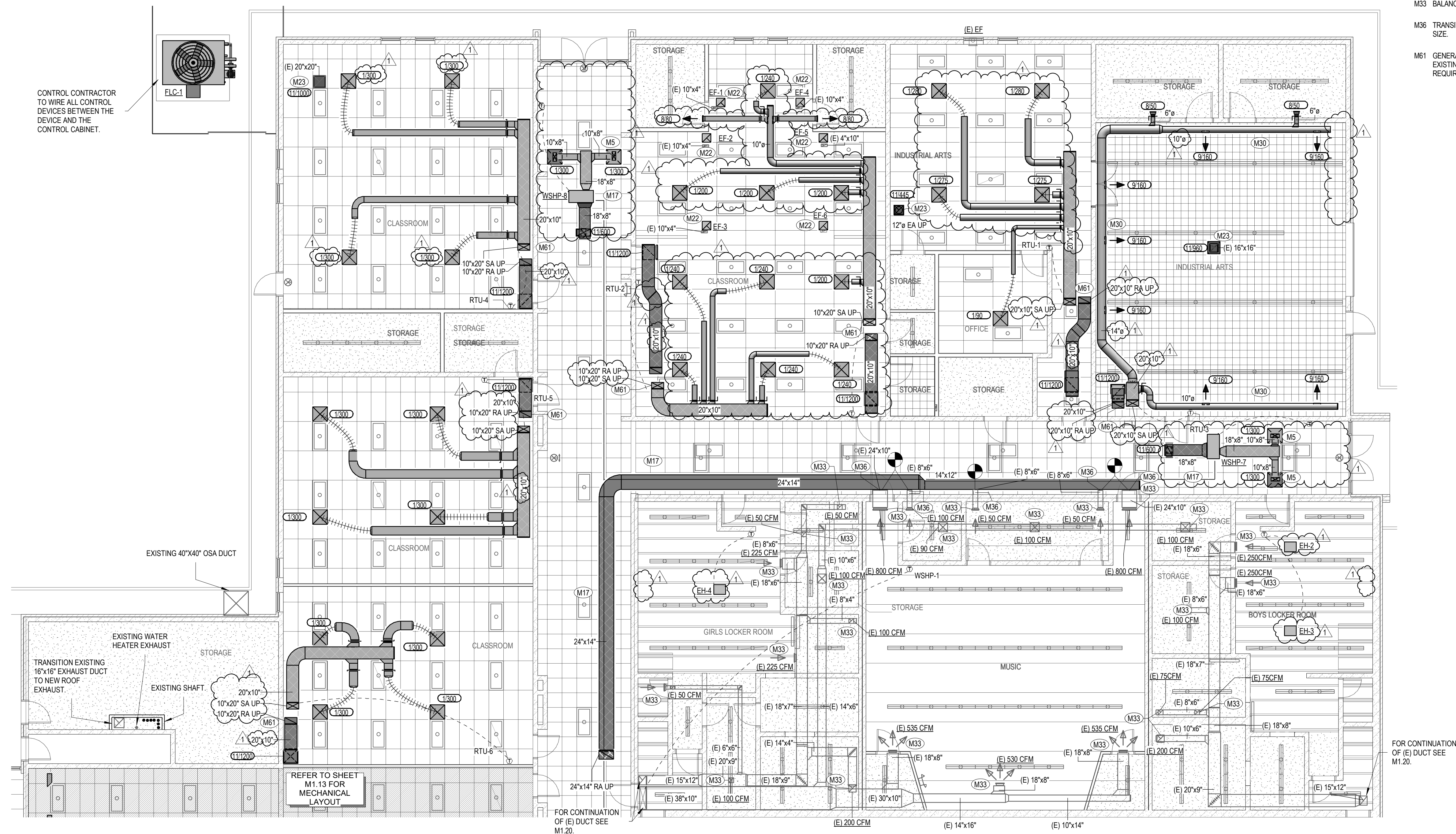
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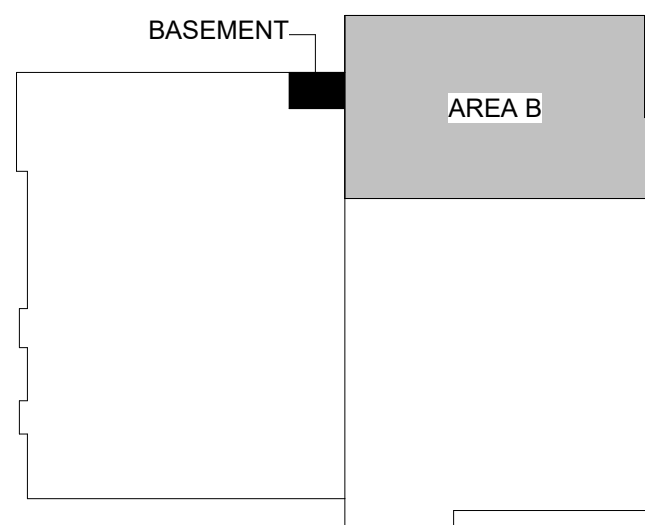


PLAN NOTES

- A. DO NOT FABRICATE OR PURCHASE DUCTWORK OR EQUIPMENT PRIOR TO CONFIRMING ALL ROUTING, SIZING, AND INSTALLATION REQUIREMENTS WITH EXISTING CONDITIONS AND ALL TRADES.
- B. PROVIDE A SEPARATE DUCT RUNOUT FROM EACH AIR DEVICE TO THE NEAREST DUCT MAIN. DUCT RUNOUTS TO MATCH AIR DEVICE NECK SIZE UNLESS NOTED OTHERWISE.
- C. COORDINATE ALL CUTTING, REPAIRING, AND PATCHING OF WALLS, CEILINGS, AND ROOFS WITH GENERAL CONTRACTOR.
- D. CORRIDORS WALLS ARE 1-HOUR FIRE RATED.

KEYNOTES

- M5 PROVIDE PLENUM BOX ABOVE DIFFUSERS. ROUTE SUPPLY DUCTWORK TO PLENUM BOX.
- M17 ALL WORK IN CORRIDORS WILL BE ABOVE EXISTING LAY-IN GRID CEILINGS. SCOPE OF ACCESS AND INSTALLATION IS MEANS AND METHODS AND MUST BE ACCOUNTED FOR IN SCOPE OF WORK. CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE TO CEILING TILE, FRAME, OR WALLS. REPAIR, PATCH, AND PAINT TO MATCH EXISTING.
- M22 REPLACE EXISTING CEILING FAN WITH NEW AND CONNECT TO EXISTING DUCT WORK. REFER TO SIZE ON PLAN FOR EXISTING DUCT SIZE.
- M23 CONNECT NEW EXHAUST GRILL TO EXISTING DUCT WORK AND CONNECT BOTH NEW EXHAUST GRILL AND EXISTING DUCT WORK TO NEW ROOF EXHAUST FAN. REFER TO SIZE ON PLAN FOR EXISTING DUCT SIZE.
- M30 NEW DUCTWORK TO BE SPIRAL ROUND DUCT LOCATED UNDER FINISHED CEILING.
- M33 BALANCE DIFFUSER TO CFM NOTED ON DRAWINGS.
- M36 TRANSITION NEW DUCT TO (E) DUCT. REFER TO SIZE ON PLAN FOR EXISTING DUCT SIZE.
- M61 GENERAL CONTRACTOR WILL SAW-CUT OR CORE-DRILL OPENINGS THROUGH EXISTING WALL, CEILING, OR ROOF. COORDINATE ALL LOCATIONS AND REQUIREMENTS WITH GENERAL CONTRACTOR.



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HVAC REPLACEMENT TO:  
**HOBBS MIDDLE SCHOOL**  
SHELLEY SCHOOL DISTRICT NO. 60  
545 SEMINARY AVENUE, SHELLEY, IDAHO 83274  
PARTIAL MECHANICAL FLOOR PLAN-1ST FLOOR (AREA B)

PROJECT:

REVISIONS		
1	Addendum#1	11/10/21

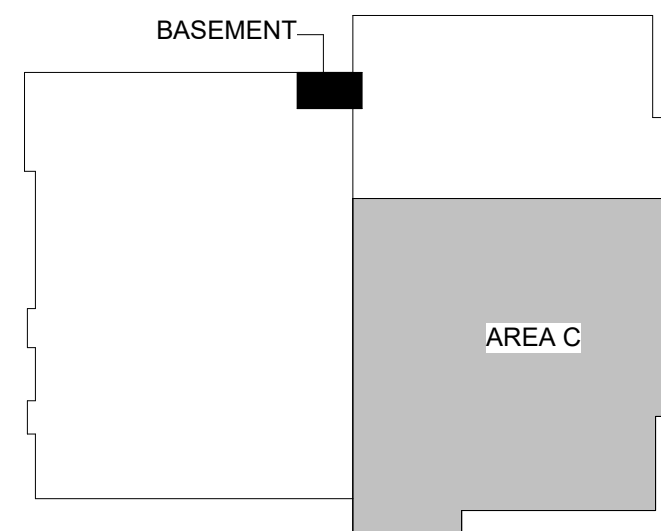
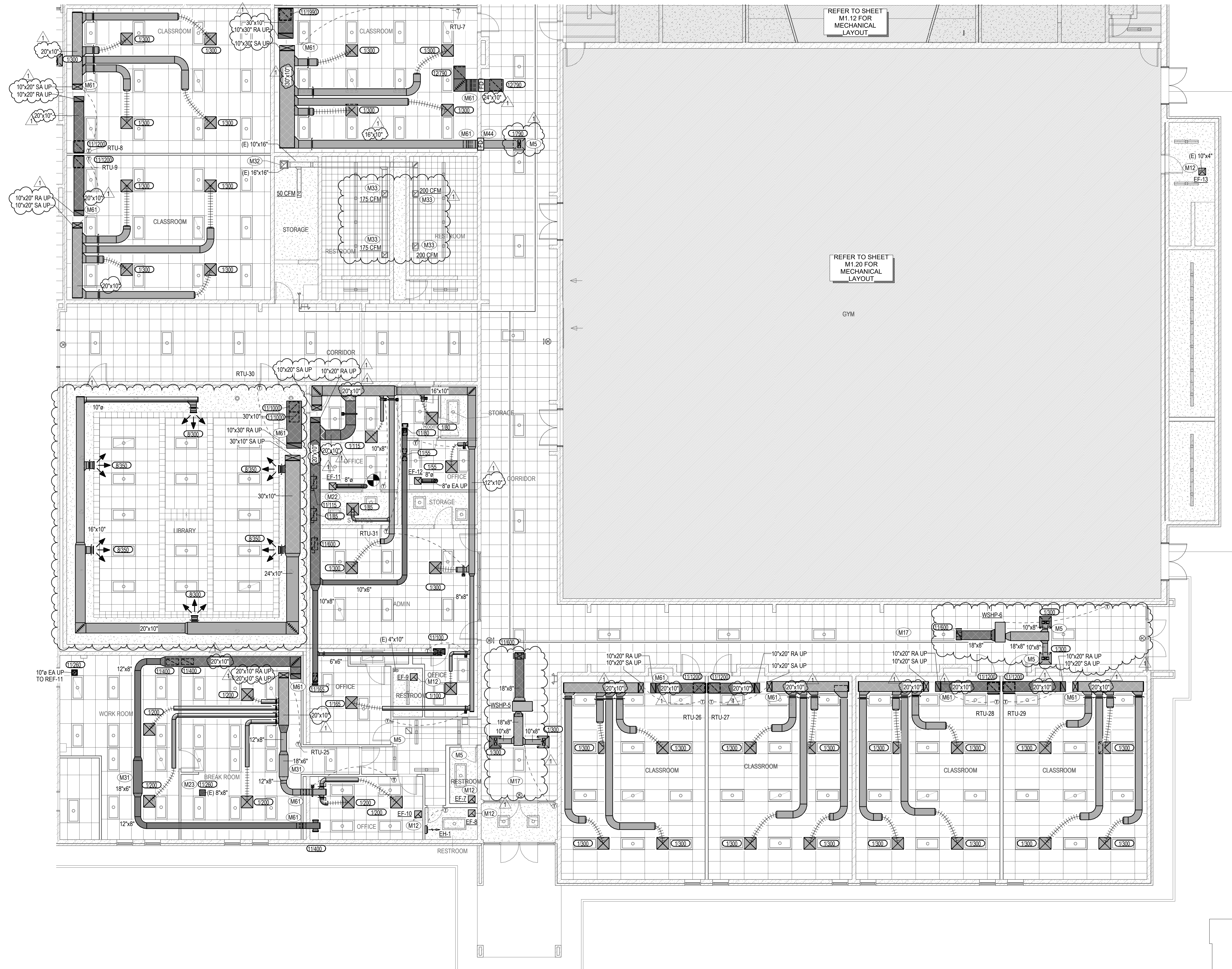
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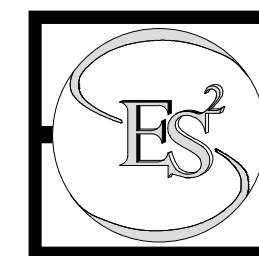
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#### KEYNOTES

- M32 TRANSITION (E) DUCT TO NEW ROOF EXHAUST FAN. REFER TO SIZE ON PLAN FOR EXISTING DUCT SIZE.
- M33 BALANCE DIFFUSER TO CFM NOTED ON DRAWINGS.
- M44 CMU WALL WITH 1 HOUR FIRE RATINGS.
- M61 GENERAL CONTRACTOR WILL SAW-CUT OR CORE-DRILL OPENINGS THROUGH EXISTING WALL, CEILING, OR ROOF. COORDINATE ALL LOCATIONS AND REQUIREMENTS WITH GENERAL CONTRACTOR.

#### KEYNOTES

- M22 REPLACE EXISTING CEILING FAN WITH NEW AND CONNECT TO EXISTING DUCT WORK. REFER TO SIZE ON PLAN FOR EXISTING DUCT SIZE.
- M23 CONNECT NEW EXHAUST GRILL TO EXISTING DUCT WORK AND CONNECT BOTH NEW EXHAUST GRILL AND EXISTING DUCT WORK TO NEW ROOF EXHAUST FAN. REFER TO SIZE ON PLAN FOR EXISTING DUCT SIZE.
- M25 CONNECT EXISTING DUCT TO WSH-P-1
- M31 DUCT TO BE ROUTED UNDER EXISTING PIPING.

#### KEYNOTES

- M5 PROVIDE PLENUM BOX ABOVE DIFFUSERS. ROUTE SUPPLY DUCTWORK TO PLENUM BOX.
- M12 TRANSITION NEW DUCT FROM NEW EXHAUST FAN TO EXISTING DUCT. INSTALL NEW MECHANICAL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. REFER TO SIZE ON PLAN FOR EXISTING DUCT SIZE.
- M17 ALL WORK IN CORRIDORS WILL BE ABOVE EXISTING LAY-IN GRID CEILINGS. SCOPE OF ACCESS AND INSTALLATION IS MEANS AND METHODS AND MUST BE ACCOUNTED FOR IN SCOPE OF WORK. CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE TO CEILING TILE, FRAME, OR WALLS. REPAIR, PATCH, AND PAINT TO MATCH EXISTING.

#### PLAN NOTES

- A. DO NOT FABRICATE OR PURCHASE DUCTWORK OR EQUIPMENT PRIOR TO CONFIRMING ALL ROUTING, SIZING, AND INSTALLATION REQUIREMENTS WITH EXISTING CONDITIONS AND ALL TRADES.
- B. PROVIDE A SEPARATE DUCT RUNOUT FROM EACH AIR DEVICE TO THE NEAREST DUCT MAIN. DUCT RUNOUTS TO MATCH AIR DEVICE NECK SIZE UNLESS NOTED OTHERWISE.
- C. COORDINATE ALL CUTTING, REPAIRING, AND PATCHING OF WALLS, CEILINGS, AND ROOFS WITH GENERAL CONTRACTOR.
- D. CORRIDORS WALLS ARE 1-HOUR FIRE RATED.

HVAC REPLACEMENT TO:  
**HOBBS MIDDLE SCHOOL**  
SHELLEY SCHOOL DISTRICT NO. 60  
545 SEMINARY AVENUE, SHELLEY, IDAHO 83274  
PARTIAL MECHANICAL FLOOR PLAN-1ST FLOOR (AREA C)

PROJECT:

REVISIONS  
1 Addendum#1 11/10/21

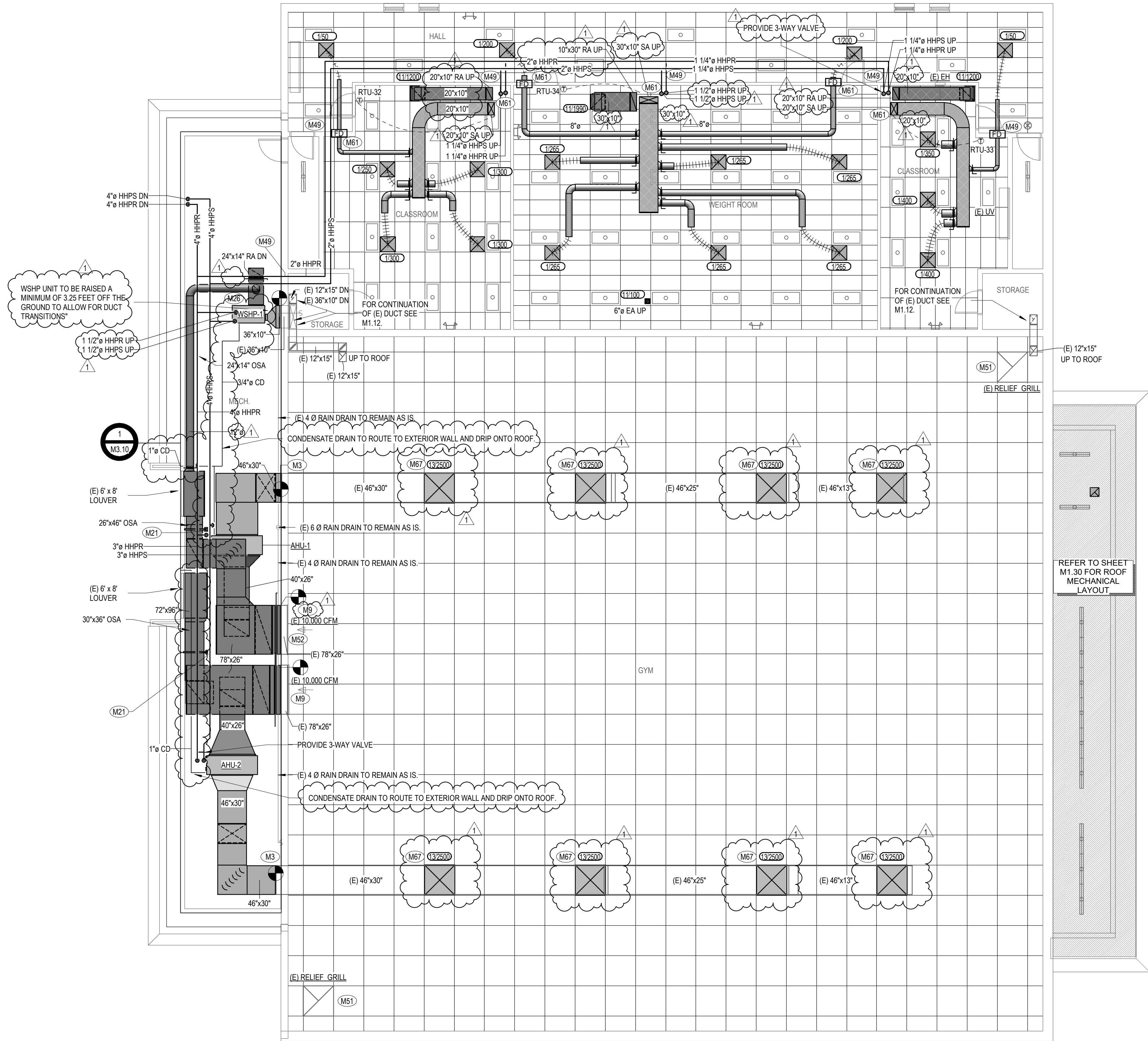
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10/29/2021  
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M1.13

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PLAN NOTES

- A. DO NOT FABRICATE OR PURCHASE DUCTWORK OR EQUIPMENT PRIOR TO CONFIRMING ALL ROUTING, SIZING, AND INSTALLATION REQUIREMENTS WITH EXISTING CONDITIONS AND ALL TRADES.
- B. PROVIDE A SEPARATE DUCT RUNOUT FROM EACH AIR DEVICE TO THE NEAREST DUCT MAIN. DUCT RUNOUTS TO MATCH AIR DEVICE NECK SIZE UNLESS NOTED OTHERWISE.
- C. COORDINATE ALL CUTTING, REPAIRING, AND PATCHING OF WALLS, CEILINGS, AND ROOFS WITH GENERAL CONTRACTOR.
- D. PROVIDE 2-WAY CONTROL VALVES FOR EVERY PIECE OF EQUIPMENT UNLESS NOTED AS 3-WAY VALVE.
- E. CORRIDOR WALLS ARE 1 HOUR FIRE RATED.

KEYNOTES

- M3 CONNECT (E) SUPPLY DUCT ABOVE GYM TO NEW SUPPLY DUCT FROM NEW AHU.
- M9 CONNECT (E) RETURN DUCT IN GYM TO NEW RETURN DUCT FROM NEW AHU.
- M21 OUTDOOR ECONOMIZER MOTORIZED DAMPER TO MODULATE WITH RETURN AIR MOTORIZED DAMPER.
- M22 TRANSITION NEW DUCT FROM NEW WSPH TO (E) 36"x10" DUCT. MOUNT UNIT MINIMUM 3.25 FEET OFF OF GROUND TO ALLOW FOR DUCT TRANSITIONS.
- M49 GYPSUM WALL WITH 1 HOUR FIRE RATING.
- M51 RELIEF AIR MOTORIZED DAMPER TO MODULATE WITH OUTDOOR AIR ECONOMIZER. PROVIDE NEW MOTORIZED DAMPER TO RETURN GRILLE ASSEMBLY.
- M52 MOTORIZED DAMPER TO MODULATE WITH OUTDOOR AIR ECONOMIZER.
- M56 GENERAL CONTRACTOR WILL SAW-CUT OR CORE-DRILL OPENINGS THROUGH EXISTING WALL, CEILING, OR ROOF. COORDINATE ALL LOCATIONS AND REQUIREMENTS WITH GENERAL CONTRACTOR.
- M57 REPLACE GYMNASIUM AIR DEVICES WITH NEW NEW AIR DEVICE TO REPLACE EXISTING APPROXIMATELY 48"x48" CEILING TILE. PROVIDE POWDER COATED SHEET METAL FRAME (MATCH AIR DEVICE COLOR) TO HOUSE THE AIR DEVICE AND TO FIT IN THE EXISTING CEILING TILE. SUPPORT FROM STRUCTURE AND CONNECT TO EXISTING MAIN DUCT. SET (2) OUTSIDE AIR DEVICES IN VERTICAL THROW POSITION AND (2) INSIDE AIR DEVICES IN HORIZONTAL THROW POSITION FOR EACH DUCT RUN.

HVAC REPLACEMENT TO:  
**HOBBS MIDDLE SCHOOL**  
SHELLEY SCHOOL DISTRICT NO. 60  
545 SEMINARY AVENUE, SHELLEY, IDAHO 83274

MECHANICAL 2ND FLOOR PLAN

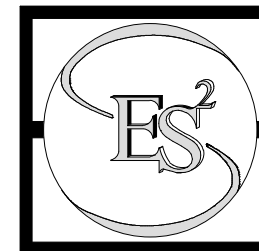
PROJECT:

REVISIONS		
1	Addendum#1	11/10/21

PROJECT NO.  
21015  
DATE:  
10/29/2021  
DRAWN BY:  
JM  
CHECKED BY:  
TM

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SOLUTIONS

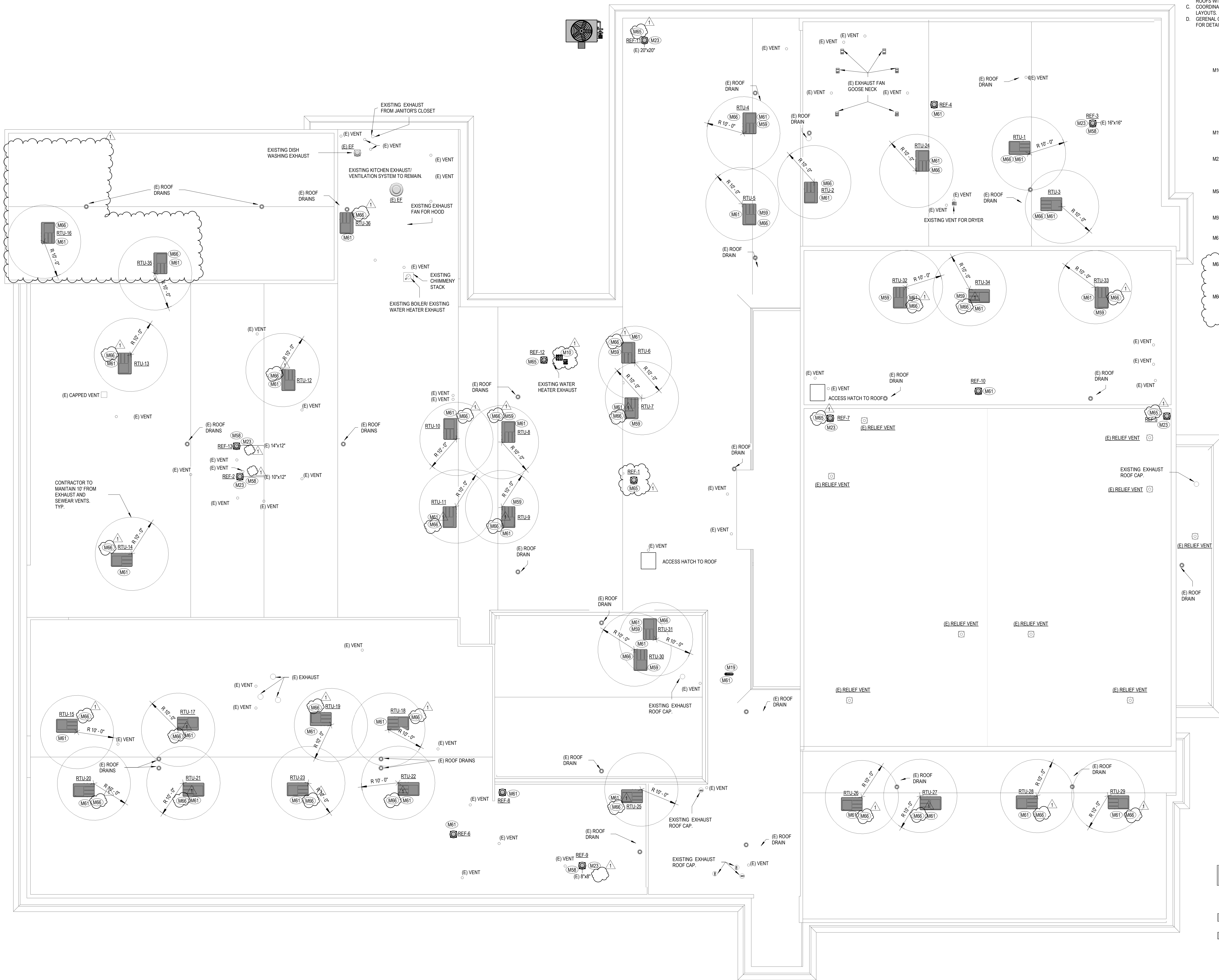


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M1.20

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MECH ROOF OVERALL  
SCALE: 3/32" = 1'-0"

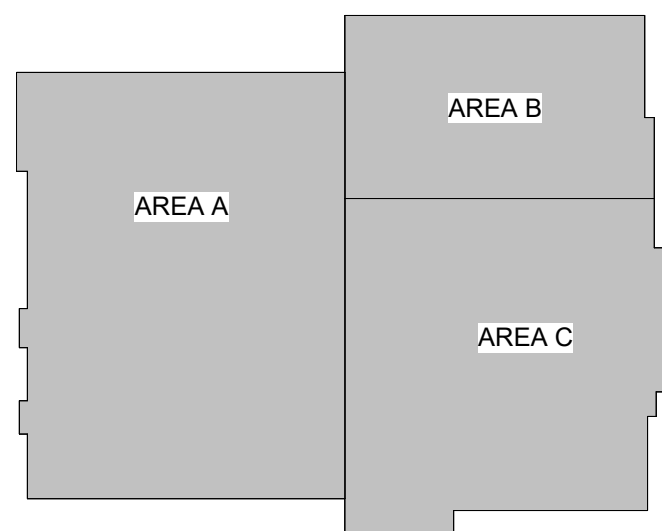


PLAN NOTES

- DO NOT FABRICATE OR PURCHASE DUCTWORK OR EQUIPMENT PRIOR TO CONFIRMING ALL ROUTING, SIZING, AND INSTALLATION REQUIREMENTS WITH EXISTING CONDITIONS AND ALL TRADES.
- COORDINATE ALL CUTTING, REPAIRING, AND PATCHING OF WALLS, CEILINGS, AND ROOFS WITH GENERAL CONTRACTOR.
- COORDINATE LOCATIONS OF ALL NEW ROOFTOP UNITS WITH EXISTING JOIST LAYOUTS. OFFSET DUCTS AS REQUIRED TO ACCOMMODATE JOIST LAYOUTS.
- GENERAL CONTRACTOR TO INSTALL ALL ROOF CURBS. SEE ARCHITECTURAL PLANS FOR DETAILS.

KEYNOTES

- M10 INSTALL VENT FROM BOILER VERTICALLY UP TO ROOF PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. CONTRACTOR TO ENSURE VENT LENGTH REMAINS LESS THAN 100 EQUIVALENT FEET. FIELD VERIFY FINAL ROUTING. COORDINATE FINAL TERMINATION LOCATION WITH GENERAL CONTRACTOR TO MAINTAIN MIN 10' HORIZONTAL SEPARATION FROM FRESH AIR INTAKE INTO BUILDING AND MINIMUM 3' FROM OPERABLE OPENING INTO THE BUILDING. PROVIDE UL LISTED FIRE COLLAR AT RATED ASSEMBLY PENETRATIONS.
- M19 EXHAUST DUCT TO BE GOOSENECK. DUCT TO BE MINIMUM 26 GA. SEAL ANNUAL SPACE AROUND DUCT AT EACH RATED PENETRATION WITH FIRE-STOPPING CAULK.
- M23 CONNECT NEW EXHAUST GRILL TO EXISTING DUCT WORK AND CONNECT BOTH NEW EXHAUST GRILL AND EXISTING DUCT WORK TO NEW ROOF EXHAUST FAN. REFER TO SIZE ON PLAN FOR EXISTING DUCT SIZE.
- M58 NEW EXHAUST FAN TO MOUNT TO EXISTING ROOF CURB. PROVIDE ROOF CURB ADAPTOR. EXTEND EXISTING OR NEW DUCT TO NEW FAN CONNECTION.
- M59 PROVIDE MINIMUM 20' HIGH SLOPED ROOF CURB TO ACCOMMODATE FUTURE ROOF INSULATION.
- M61 GENERAL CONTRACTOR WILL SAW-CUT OR CORE-DRILL OPENINGS THROUGH EXISTING WALL, CEILING, OR ROOF. COORDINATE ALL LOCATIONS AND REQUIREMENTS WITH GENERAL CONTRACTOR.
- M65 NEW EXHAUST FAN TO MOUNT TO EXISTING ROOF CURB. PROVIDE MINIMUM 8" HIGH CURB ADAPTOR TO ACCOMMODATE FUTURE ROOF INSULATION. EXTEND EXISTING OR NEW DUCT TO NEW FAN CONNECTION.
- M66 PROVIDE GPS-FC48-AC NEEDLEPOINT BIPOLAR IONIZATION SYSTEM FOR EVERY ROOFTOP UNIT. LOCATE ON BLOWER CASING INLET OF ROOFTOP UNIT. CONTROL CONTRACTOR TO POWER UNIT WITH 24 VOLT (0.41A) AND MONITOR ALARM CONTACTS.



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HVAC REPLACEMENT TO:  
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PROJECT:

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MECHANICAL ROOF PLAN

SHEET TITLE:

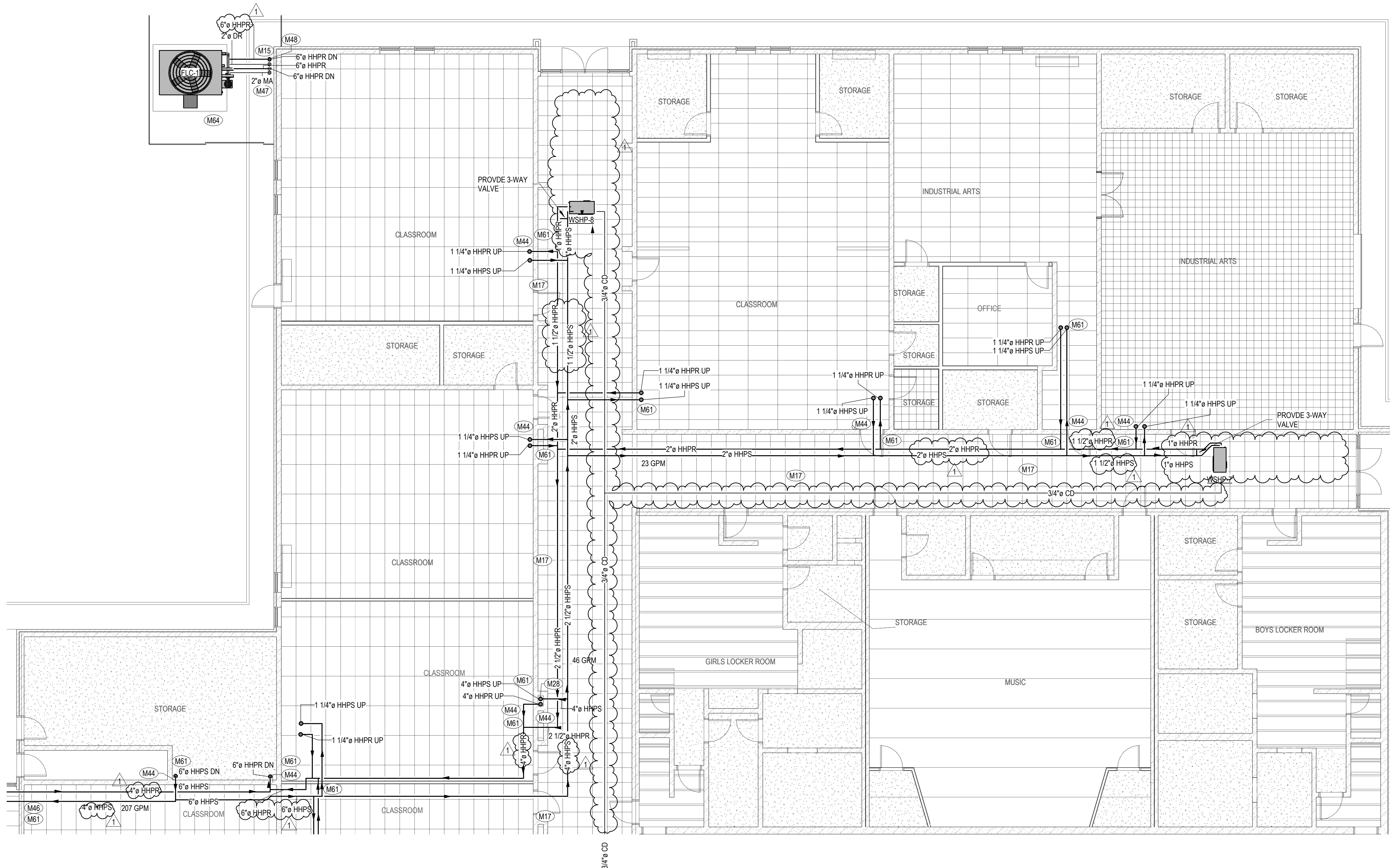




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MECHANICAL PIPING PLAN 1ST FLOOR-B

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

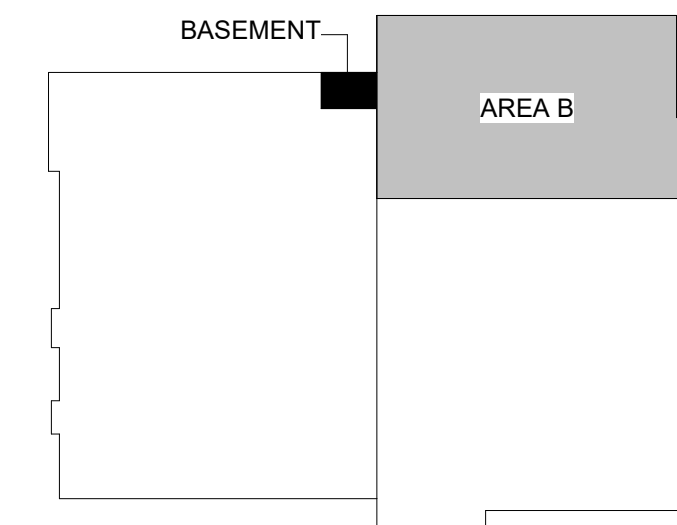


KEYNOTES

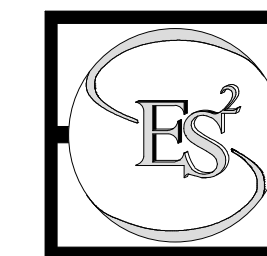
- M15 SLOPE PIPING CONNECTED TO FLC-1 BACK TO BASEMENT.
- M17 ALL WORK IN CORRIDORS WILL BE ABOVE EXISTING LAY-IN GRID CEILINGS. SCOPE OF ACCESS AND INSTALLATION IS MEANS AND METHODS AND MUST BE ACCOUNTED FOR IN SCOPE OF WORK. CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE TO CEILING TILE, FRAME, OR WALLS. REPAIR, PATCH, AND PAINT TO MATCH EXISTING.
- M28 REMOVE EXISTING STEAM PIPING AND RUN NEW HYDRONIC PIPING UP TO 2ND FLR MECHANICAL ROOM.
- M44 CMU WALL WITH 1 HOUR FIRE RATING.
- M46 CMU WALL WITH 3 HOUR FIRE RATING.
- M47 GENERAL CONTRACTOR WILL PROVIDE CONCRETE PAD AND ALL ASPHALT PATCH AND REPAIR FOR FLUID COOLER INSTALLATION. COORDINATE ALL REQUIREMENTS WITH GENERAL CONTRACTOR. EXCAVATE TO EXPOSE FOUNDATION WALL FOR PIPING PENETRATION AND BACKFILL.
- M48 ANY PIPE THAT PASSES THROUGH A FOUNDATION WALL TO BE PROVIDED WITH A PIPE SLEEVE. THE SLEEVE TO BE TWO PIPE SIZES GREATER THAN THE PIPE PASSING THROUGH THE WALL.
- M51 GENERAL CONTRACTOR WILL SAW-CUT OR CORE-DRILL OPENINGS THROUGH EXISTING WALL, CEILING, OR ROOF. COORDINATE ALL LOCATIONS AND REQUIREMENTS WITH GENERAL CONTRACTOR.
- M64 CONTROL CONTRACTOR TO WIRE ALL CONTROL DEVICES BETWEEN THE DEVICE AND THE CONTROL CABINET.

PLAN NOTES

- A. DO NOT FABRICATE OR PURCHASE DUCTWORK OR EQUIPMENT PRIOR TO CONFIRMING ALL ROUTING, SIZING, AND INSTALLATION REQUIREMENTS WITH EXISTING CONDITIONS AND ALL TRADES.
- B. CLEAN AND FLUSH ALL NEW PIPING AGAINST CHEMICAL CONCENTRATION FOR ~~FOR THE SYSTEM~~ CONTRACT WITH POWER ENGINEERING FOR ALL WATER TREATMENT SCOPE OF WORK.
- C. PROVIDE 3-WAY CONTROL VALVES FOR EVERY PIECE OF EQUIPMENT UNLESS NOTED AS 3-WAY VALVE.



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HVAC REPLACEMENT TO:  
**HOBBS MIDDLE SCHOOL**  
SHELLEY SCHOOL DISTRICT NO. 60  
545 SEMINARY AVENUE, SHELLEY, IDAHO 83274  
PARTIAL MECHANICAL PIPING FLOOR PLAN-1ST FLOOR (AREA B)

PROJECT:  
SHEET TITLE:

REVISIONS		
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10/29/2021  
DRAWN BY:  
JM  
CHECKED BY:  
TM

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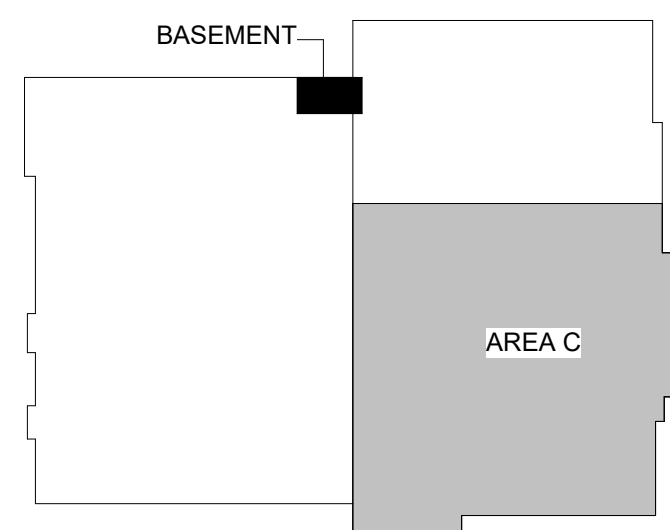
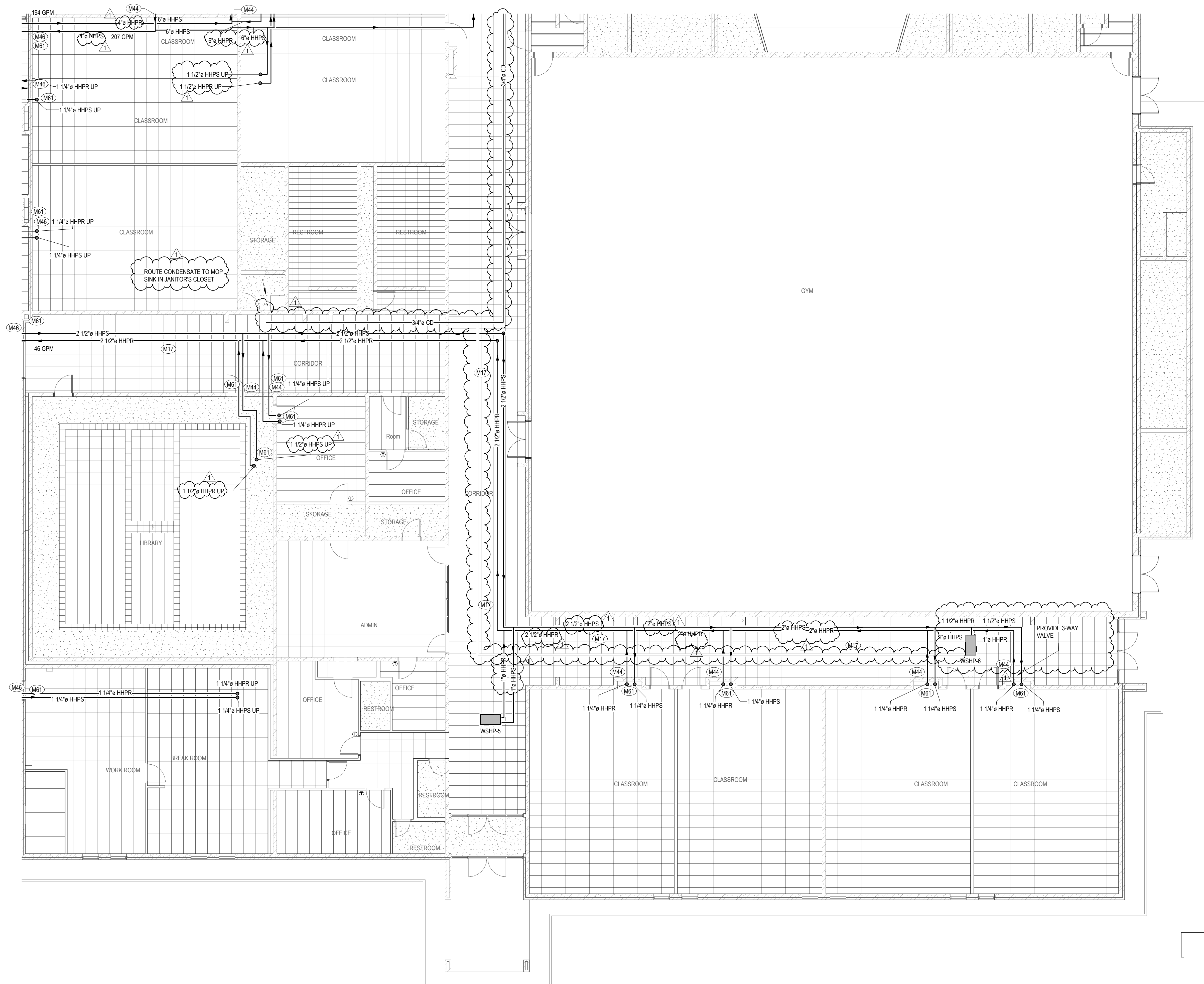
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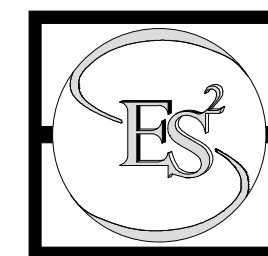
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MECHANICAL PIPING PLAN 1ST FLOOR-C

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



ENGINEERING SYSTEM SOLUTIONS



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JOB NUMBER: 21.3010 -121

KEYNOTES

- M17 ALL WORK IN CORRIDORS WILL BE ABOVE EXISTING LAY-IN GRID CEILINGS. SCOPE OF ACCESS AND INSTALLATION IS MEANS AND METHODS AND MUST BE ACCOUNTED FOR IN SCOPE OF WORK. CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE TO CEILING TILE, FRAME, OR WALLS. REPAIR, PATCH, AND PAINT TO MATCH EXISTING.
- M44 CMU WALL WITH 1 HOUR FIRE RATING.
- M46 CMU WALL WITH 3 HOUR FIRE RATING.
- M61 GENERAL CONTRACTOR WILL SAW-CUT OR CORE-DRILL OPENINGS THROUGH EXISTING WALL, CEILING, OR ROOF. COORDINATE ALL LOCATIONS AND REQUIREMENTS WITH GENERAL CONTRACTOR.

PLAN NOTES

- A. DO NOT FABRICATE OR PURCHASE DUCTWORK OR EQUIPMENT PRIOR TO CONFIRMING ALL ROUTING, SIZING, AND INSTALLATION REQUIREMENTS WITH EXISTING CONDITIONS AND ALL TRADES.
- B. CLEAN AND FLUSH ALL NEW PIPING. ADJUST CHEMICAL CONCENTRATION FOR ENTIRE SYSTEM. CONTRACT WITH POWER ENGINEERING FOR ALL WATER TREATMENT SCOPE OF WORK.
- C. PROVIDE 2-WAY CONTROL VALVES FOR EVERY PIECE OF EQUIPMENT UNLESS NOTED AS 3-WAY VALVE.

HVAC REPLACEMENT TO:  
**HOBBS MIDDLE SCHOOL**  
SHELLEY SCHOOL DISTRICT NO. 60  
545 SEMINARY AVENUE, SHELLEY, IDAHO 83274

PARTIAL MECHANICAL PIPING FLOOR PLAN-1ST FLOOR (AREA C)

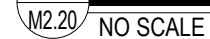
PROJECT:  
SHEET TITLE:

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EXHAUST FAN (EF)																
MARK	TYPE	CFM	ESP (IN WC)	FAN RPM	MAX SONES	DAMPER (GRAVITY OR MOTOR)	CONTROL METHOD	OPENING SIZE	EAT (°F)	ELECTRICAL			OPER WT (LBS)	MANUFACTURER & MODEL	NOTE	S
										VOLT	PH	HP				
EF-1	CEILING	220	0.4	1240	3.5	GRAVITY	WALL SWITCH	N/A	70	120	1	0.17	25	GREENHECK SP	1-3.5	
EF-2	CEILING	220	0.4	1240	3.5	GRAVITY	WALL SWITCH	N/A	70	120	1	0.17	25	GREENHECK SP	1-3.5	
EF-3	CEILING	220	0.4	1240	3.5	GRAVITY	WALL SWITCH	N/A	70	120	1	0.17	25	GREENHECK SP	1-3.5	
EF-4	CEILING	220	0.4	1240	3.5	GRAVITY	WALL SWITCH	N/A	70	120	1	0.17	25	GREENHECK SP	1-3.5	
EF-5	CEILING	220	0.4	1240	3.5	GRAVITY	WALL SWITCH	N/A	70	120	1	0.17	25	GREENHECK SP	1-3.5	
EF-6	CEILING	220	0.4	1240	3.5	GRAVITY	WALL SWITCH	N/A	70	120	1	0.17	25	GREENHECK SP	1-3.5	
EF-7	CEILING	70	0.4	1149	3.5	GRAVITY	WALL SWITCH	N/A	70	120	1	0.17	25	GREENHECK SP	1-3.5	
EF-8	CEILING	70	0.4	1149	3.5	GRAVITY	WALL SWITCH	N/A	70	120	1	0.17	25	GREENHECK SP	1-3.5	
EF-9	CEILING	70	0.4	1149	3.5	GRAVITY	BMS	N/A	70	120	1	0.17	25	GREENHECK SP	1-3.5	
EF-10	CEILING	200	0.4	1019	3	GRAVITY	WALL SWITCH	N/A	70	120	1	0.17	25	GREENHECK SP	1-3.5	
EF-11	CEILING	200	0.4	1019	3	GRAVITY	WALL SWITCH	N/A	70	120	1	0.17	25	GREENHECK SP	1-3.5	
EF-12	CEILING	200	0.4	1019	3	GRAVITY	WALL SWITCH	N/A	70	120	1	0.17	25	GREENHECK SP	1-3.5	
EF-13	CEILING	200	0.4	1019	3	GRAVITY	WALL SWITCH	N/A	70	120	1	0.17	25	GREENHECK SP	1-3.5	
REF-1	DOWNBLAST	800	0.4	1704	10.3	GRAVITY	BMS	17"x17"	70	120	1	0.17	30	GREENHECK G	1-5	
REF-2	DOWNBLAST	800	0.4	1704	10.3	GRAVITY	BMS	17"x17"	70	120	1	0.17	30	GREENHECK G	1-5	
REF-3	DOWNBLAST	960	0.4	1586	11.3	GRAVITY	BMS	19"x19"	70	120	1	0.25	55	GREENHECK G	1-5	
REF-4	DOWNBLAST	445	0.4	1492	6.4	GRAVITY	BMS	17"x17"	70	120	1	0.25	30	GREENHECK G	1-5	
REF-5	DOWNBLAST	550	0.7	1627	8.7	GRAVITY	BMS	19"x19"	70	120	1	0.25	55	GREENHECK G	1-5	
REF-6	DOWNBLAST	625	0.4	1682	6.4	GRAVITY	BMS	19"x19"	70	120	1	0.25	40	GREENHECK G	1-5	
REF-7	DOWNBLAST	800	0.7	1684	6.2	GRAVITY	BMS	19"x19"	70	120	1	0.25	55	GREENHECK G	1-5	
REF-8	DOWNBLAST	260	0.4	1533	7.6	GRAVITY	BMS	17"x17"	70	120	1	0.17	30	GREENHECK G	1-5	
REF-9	DOWNBLAST	280	0.4	1533	7.6	GRAVITY	BMS	17"x17"	70	120	1	0.17	30	GREENHECK G	1-5	
REF-10	DOWNBLAST	1000	0.4	1629	11.3	GRAVITY	BMS	19"x19"	70	120	1	0.25	40	GREENHECK G	1-5	
REF-11	DOWNBLAST	1000	0.4	1629	11.3	GRAVITY	BMS	19"x19"	70	120	1	0.25	40	GREENHECK G	1-5	
REF-12	DOWNBLAST	1000	0.4	1629	11.3	GRAVITY	BMS	19"x19"	70	120	1	0.25	40	GREENHECK G	1-5	
REF-13	DOWNBLAST	800	0.4	1704	10.3	GRAVITY	BMS	17"x17"	70	120	1	0.17	30	GREENHECK G	1-5	

- NOTES:
1. COOK, GREENHECK, PENNBARCK, SOLERA, PALM, PANASONIC, AND CAPTIVEWARE ARE APPROVED MANUFACTURERS. REFER TO MANUFACTURER AND MODEL FOR BASIS OF DESIGN.
  2. PROVIDE WITH VIBRATION ISOLATION AND MAX SPEED CONTROLLER.
  3. PROVIDE WITH AUTOMATIC BELT TENSIONER.
  4. PROVIDE WITH ROOF CURB.
  5. PROVIDE WITH BELT GUARD.

AIR SEPARATOR (AS)							
MARK	SYSTEM SERVED	CONNECTION SIZE	MIN GPM	MAX HEAD (FT)	DIMENSIONS (IN)	OPER WT (LBS)	MANUFACTURER & MODEL
					D	H	
AS-1	HPH	6	450	1.5	20	36.88	170 TACO AC06-12S

- NOTES:
1. SPIROVENT, BELL & GOSSETT, THURSDAY & TACO ARE APPROVED MANUFACTURERS. REFER TO MANUFACTURER AND MODEL FOR BASIS OF DESIGN.

EXPANSION TANK (ET)									
MARK	SYSTEM SERVED	MAX OPER. WATER TEMP (°F)	GLYCOL (%)	TANK VOL (GAL)	ACCEP VOL (GAL)	PRE CHARGE (PSI)	DIMENSIONS (IN)	OPER WT (LBS)	MANUFACTURER & MODEL
							H	D	
ET-1	HPH	240	30	53	53	125	38	24	170 AMITROL 200-L

- NOTES:
1. AMITROL, WATTS, THURSDAY & TACO ARE APPROVED MANUFACTURERS. REFER TO MANUFACTURER AND MODEL FOR BASIS OF DESIGN.

ROOF TOP WATER SOURCE HEAT PUMP (RTU)																						
MARK	AIR SIDE					HYDRONIC HEAT PUMP					ELECTRICAL					DIMENSIONS (IN)			OPER WT (LBS)	MANUFACTURER & MODEL		
	OSA	ESP (IN WC)	AIRFLOW (CFM)	COOLING EAT (DBWB) (°F)	COOLING LAT (DBWB) (°F)	HEATING EAT/LAT (DB) (°F)	FLUID	FLOW RATE (GPM)	PD (FT)	COOLING (EWT)	HEATING (EWT)	EER	COP	VOLTAGE	PH	MCA	MOCP	D			W	H
RTU-1	225	0.75	1200	79/62	55/54	53/90	30% P.G.	7	5.5	85	70	14.95	4.62	208	3	25	35	45	70	41	650	TRANE GWSC
RTU-2	150	0.75	1200	79/62	55/54	53/90	30% P.G.	7	5.5	85	70	14.95	4.62	208	3	25	35	45	70	41	650	TRANE GWSC
RTU-3	180	0.75	1200	79/62	55/54	53/90	30% P.G.	7	5.5	85	70	14.95	4.62	208	3	25	35	45	70	41	650	TRANE GWSC
RTU-4	175	0.75	1200	79/62	55/54	53/90	30% P.G.	7	5.5	85	70	14.95	4.62	208	3	25	35	45	70	41	650	TRANE GWSC
RTU-5	185	0.75	1200	79/62	55/54	53/90	30% P.G.	7	5.5	85	70	14.95	4.62	208	3	25	35	45	70	41	650	TRANE GWSC
RTU-6	185	0.75	1200	79/62	55/54	53/90	30% P.G.	7	5.5	85	70	14.95	4.62	208	3	25	35	45	70	41	650	TRANE GWSC
RTU-7	330	0.75	1990	79/62	55/54	53/90	30% P.G.	12	8	85	70	14.83	4.62	208	3	30	45	55	89	41	850	TRANE GWSC
RTU-8	185	0.75	1200	79/62	55/54	53/90	30% P.G.	7	5.5	85	70	14.95	4.62	208	3	25	35	45	70	41	650	TRANE GWSC
RTU-9	185	0.75	1200	79/62	55/54	53/90	30% P.G.	7	5.5	85	70	14.95	4.62	208	3	25	35	45	70	41	650	TRANE GWSC
RTU-10	185	0.75	1200	79/62	55/54	53/90	30% P.G.	7	5.5	85	70	14.95	4.62	208	3	25	35	45	70	41	650	TRANE GWSC
RTU-11	185	0.75	1200	79/62	55/54	53/90	30% P.G.	7	5.5	85	70	14.95	4.62	208	3	25	35	45	70	41	650	TRANE GWSC
RTU-12	185	0.75	1200	79/62	55/54	53/90	30% P.G.	7	5.5	85	70	14.95	4.62	208	3	25	35	45	70	41	650	TRANE GWSC
RTU-13	185	0.75	1200	79/62	55/54	53/90	30% P.G.	7	5.5	85	70	14.95	4.62	208	3	25	35	45	70	41	650	TRANE GWSC
RTU-14	195	0.75	1200	79/62	55/54	53/90	30% P.G.	7	5.5	85	70	14.95	4.62	208	3	25	35	45	70	41	650	TRANE GWSC
RTU-15	185	0.75	1200	79/62	55/54	53/90	30% P.G.	7	5.5	85	70	14.95	4.62	208	3	25	35	45	70	41	650	TRANE GWSC
RTU-16	200	0.75	1200	79/62	55/54	53/90	30% P.G.	7	5.5	85	70	14.93	4.62	208	3	25	35	45	70	41	650	TRANE GWSC
RTU-17	185	0.75	1200	79/62	55/54	53/90	30% P.G.	7	5.5	85	70	14.95	4.62	208	3	25	35	45	70	41	650	TRANE GWSC
RTU-18	185	0.75	1200	79/62	55/54	53/90	30% P.G.	7	5.5	85	70	14.95	4.62	208	3	25	35	45	70	41	650	TRANE GWSC
RTU-19	180	0.75	1200	79/62	55/54	53/90	30% P.G.	7	5.5	85	70	14.95	4.62	208	3	25	35	45	70	41	650	TRANE GWSC
RTU-20	185	0.75	1200	79/62	55/54	53/90	30% P.G.	7	5.5	85	70	14.95	4.62	208	3	25	35	45	70	41	650	TRANE GWSC
RTU-21	185	0.75	1200	79/62	55/54	53/90	30% P.G.	7	5.5	85	70	14.95	4.62	208	3	25	35	45	70	41	650	TRANE GWSC
RTU-22	210	0.75	1200	79/62	55/54	53/90	30% P.G.	7	5.5	85	70	14.95	4.62	208	3	25	35	45	70	41	650	TRANE GWSC
RTU-23	185	0.75	1200	79/62	55/54	53/90	30% P.G.	7	5.5	85	70	14.95	4.62	208	3	25	35	45	70	41	650	TRANE GWSC
RTU-24	200	0.75	1200	79/62	55/54	53/90	30% P.G.	7	5.5	85	70	14.95	4.62	208	3	25	35	45	70	41	650	TRANE GWSC
RTU-25	200	0.75	1200	79/62	55/54	53/90	30% P.G.	7	5.5	85	70	14.95	4.62	208	3	25	35	45	70	41	650	TRANE GWSC
RTU-26	185	0.75	1200	79/62	55/54	53/90	30% P.G.	7	5.5	85	70	14.95	4.62	208	3	25	35	45	70	41	650	TRANE GWSC
RTU-27	185	0.75	1200	79/62	55/54	53/90	30% P.G.	7	5.5	85	70	14.95	4.62	208	3	25	35	45	70	41	650	TRANE GWSC
RTU-28	185	0.75	1200	79/62	55/54	53/90	30% P.G.	7	5.5	85	70	14.95	4.62	208	3	25	35	45	70	41	650	TRANE GWSC
RTU-29	185	0.75	1200	79/62	55/54	53/90	30% P.G.	7	5.5	85	70	14.95	4.62	208	3	25	35	45	70	41	650	TRANE GWSC
RTU-30	375	0.75	1990	79/62	55/54	53/90	30% P.G.	12	8	85	70	14.83	4.62	208	3	30	45	55	89	41	850	TRANE GWSC
RTU-31	105	0.75	1200	79/62	55/54	53/90	30% P.G.	7	5.5	85	70	14.95	4.62	208	3	25	35	45	70	41	650	TRANE GWSC
RTU-32	185	0.75	1200	79/62	55/54	53/90	30% P.G.	7	5.5	85	70	14.95	4.62	208	3	25	35	45	70	41	650	TRANE GWSC
RTU-33	185	0.75	1200	79/62	55/54	53/90	30% P.G.	7	5.5	85	70	14.95	4.62	208	3	25	35	45	70	41	650	TRANE GWSC
RTU-34	205	0.75	1990	79/62	55/54	53/90	30% P.G.	12	8	85	70	14.83	4.62	208	3	30	45	55	89	41	850	TRANE GWSC
RTU-35	285	0.75	1990	79/62	55/54	53/90	30% P.G.	12	8	85	70	14.83	4.62	208	3	30	45	55	89	41	850	TRANE GWSC
RTU-36	7	0.75	1200	79/62	55/54	53/90	30% P.G.	7	5.5	85	70	14.95	4.62	208	3	25	35	45	70	41	650	TRANE GWSC
NOTES:																						
1. CLIMATE MASTER, DAKIN, TRANE, AND YORK ARE APPROVED MANUFACTURERS. REFER TO MANUFACTURER AND MODEL FOR BASIS OF DESIGN.																						
2. PROVIDE WITH SPLASH BLOCK FOR CONDENSATE DRAIN.																						
3. PROVIDE BACNET CARD AND RELAY/CONTROL (S) (OR EQUAL). REFER TO SEQUENCE OF OPERATION FOR CONTROL REQUIREMENTS.																						
4. INTERNALLY ISOLATED FAN MOTOR AND COMPRESSOR. THERMOSTATIC EXPANSION VALVE, COPPER HEAT EXCHANGER, REVERSING VALVE, 2" FILTER (MICRON), FREEZE/STAT DISCHARGE LINE THERMOSTAT, AND VIBRATION ISOLATORS.																						
5. PROVIDE WITH OSA ECONOMIZER WITH BAROMETRIC RELIEF.																						
6. PROVIDE FACTORY MOUNTED SMOKE DETECTOR IN AIR/REFRIG FOR UNIT SHUTDOWN.																						
7. TOTAL WEIGHT OF ROOF TOP UNIT MUST BE LESS THAN 30 LBS PER SQ FT.																						
8. MINIMUM 14" HIGH SLOPED ROOF CURBS UNLESS NOTED AS 20" ON ROOF PLAN. SLOPE TO MATCH ROOF SLOPE.																						