

# GOVERNMENT OF CANADA DRIVER TRAINING BUILDING REGINA, SASKATCHEWAN

ISSUED FOR TENDER, APRIL 26, 2016



## ARCHITECTURAL

NUMBER TEN ARCHITECTURAL GROUP - 310 - 115 BANNATYNE AVE. - WINNIPEG, MB, R3B 0R3

A1.0 TITLE SHEET

A1.1 BASEMENT, MAIN FLOOR & SECOND FLOOR DEMOLITION PLANS

A1.2 BASEMENT, MAIN FLOOR & SECOND FLOOR REFLECTED CEILING DEMOLITION PLANS

A1.3 BASEMENT, MAIN FLOOR & SECOND FLOOR NEW CONSTRUCTION PLANS

A1.4 BASEMENT, MAIN FLOOR & SECOND FLOOR REFLECTED CEILING PLANS

## STRUCTURAL

BBK STRUCTURAL ENGINEERS, BROWNLEE BEATON KREKE - 3611 PASQUA STREET - REGINA, SK, S4S 6W8

S0.0 PLANS & DETAILS

## MECHANICAL

R J ENGLAND CONSULTING LTD. - 400-4010 PASQUA STREET - REGINA, SK, S4S 7B9

M1.1 LEGEND AND SCHEDULES

M2.1 EXISTING SYSTEMS - DEMOLITION BASEMENT AND MAIN FLOOR

M2.2 EXISTING SYSTEMS - DEMOLITION SECOND FLOOR AND PENTHOUSE

M3.1 NEW HEATING - BASEMENT AND MAIN FLOOR

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M4.1 NEW VENTILATION - BASEMENT AND MAIN FLOOR

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## ELECTRICAL

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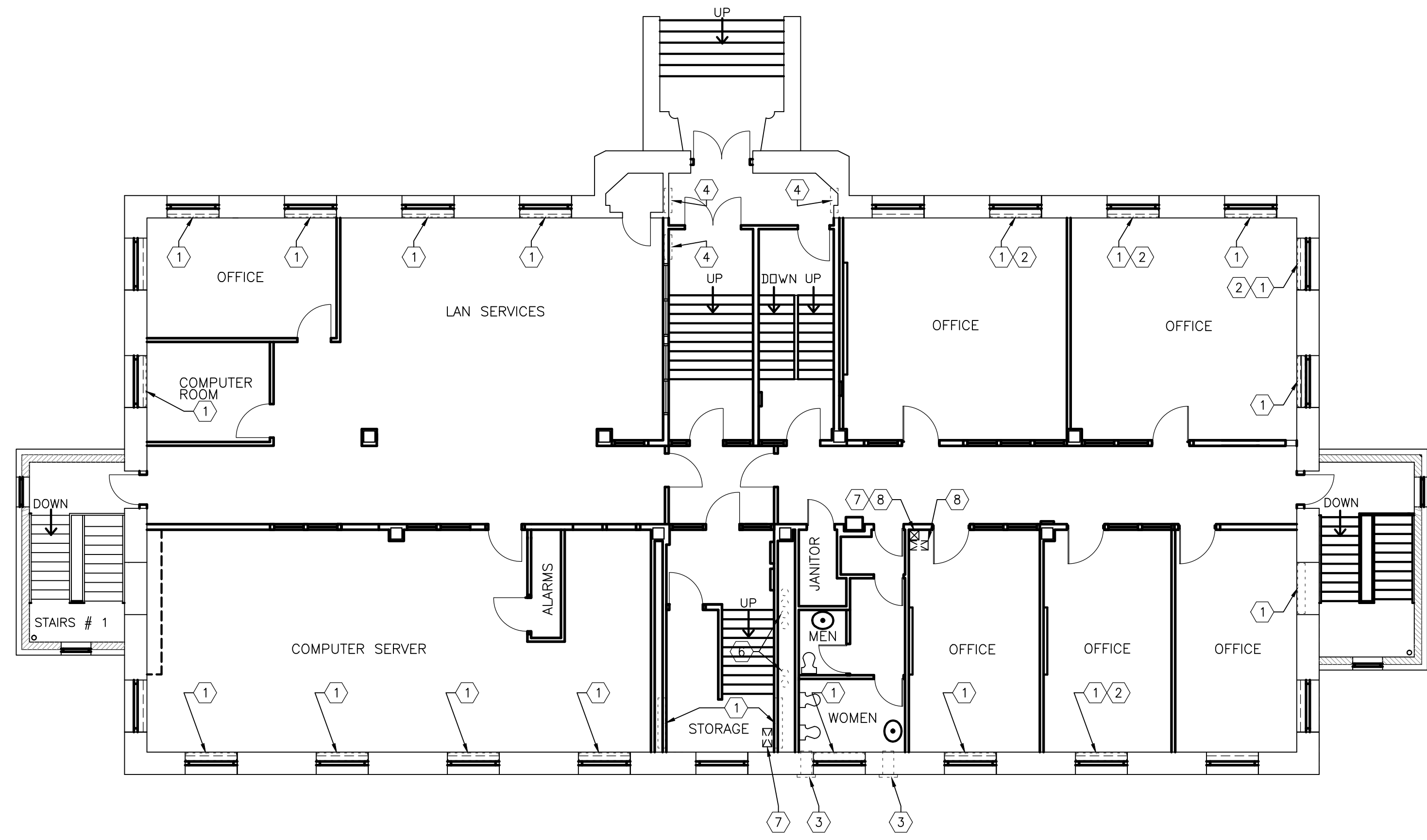
E1.1 BASEMENT, MAIN, SECOND & PENTHOUSE CEILING DEMOLITION PLANS & SYMBOL SCHEDULE

E2.1 BASEMENT, MAIN FLOOR & PENTHOUSE ELECTRICAL PLANS

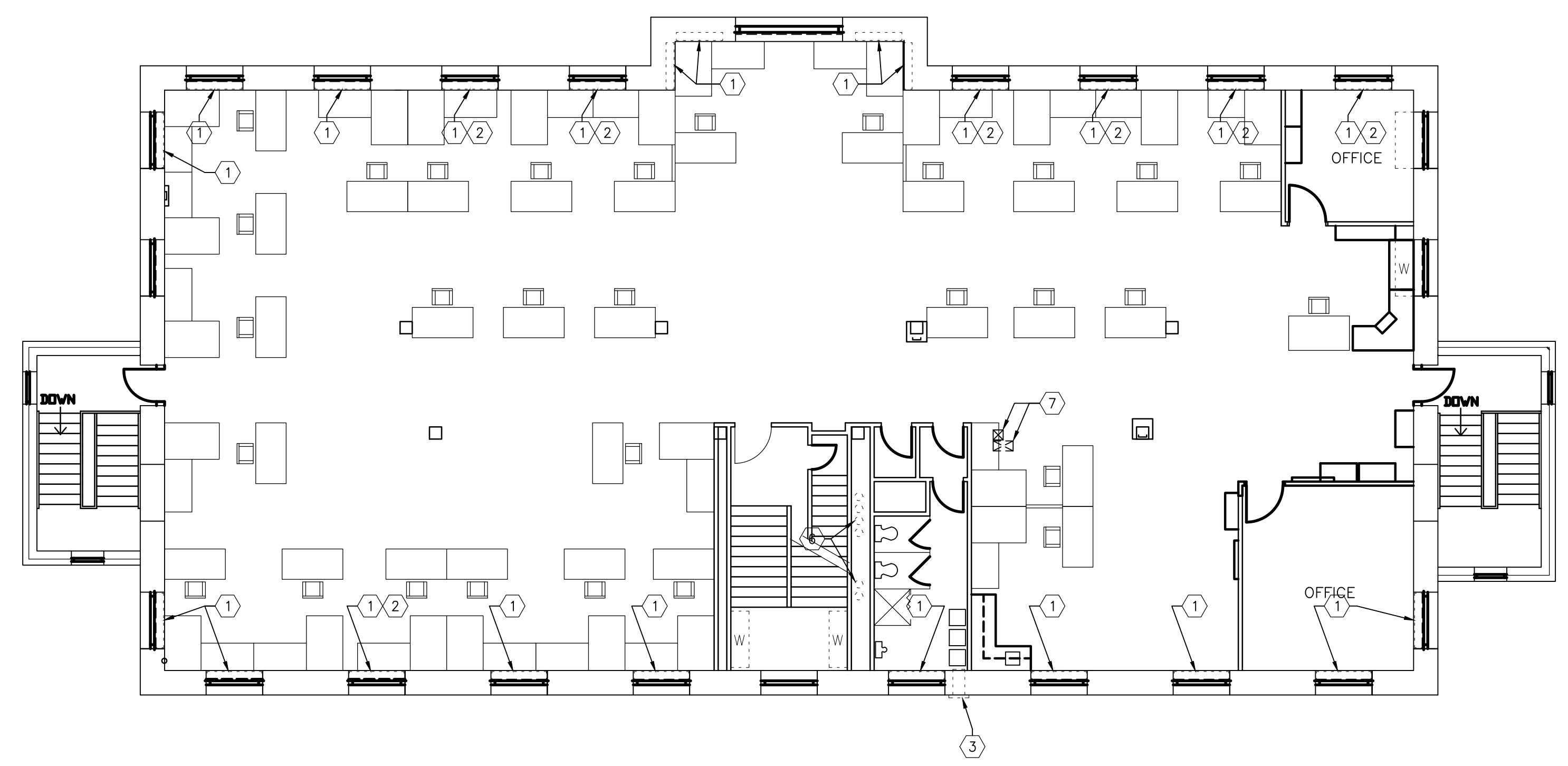
E2.2 ELECTRICAL SCHEMATICS MECHANICAL SCHEDULE & DETAILS

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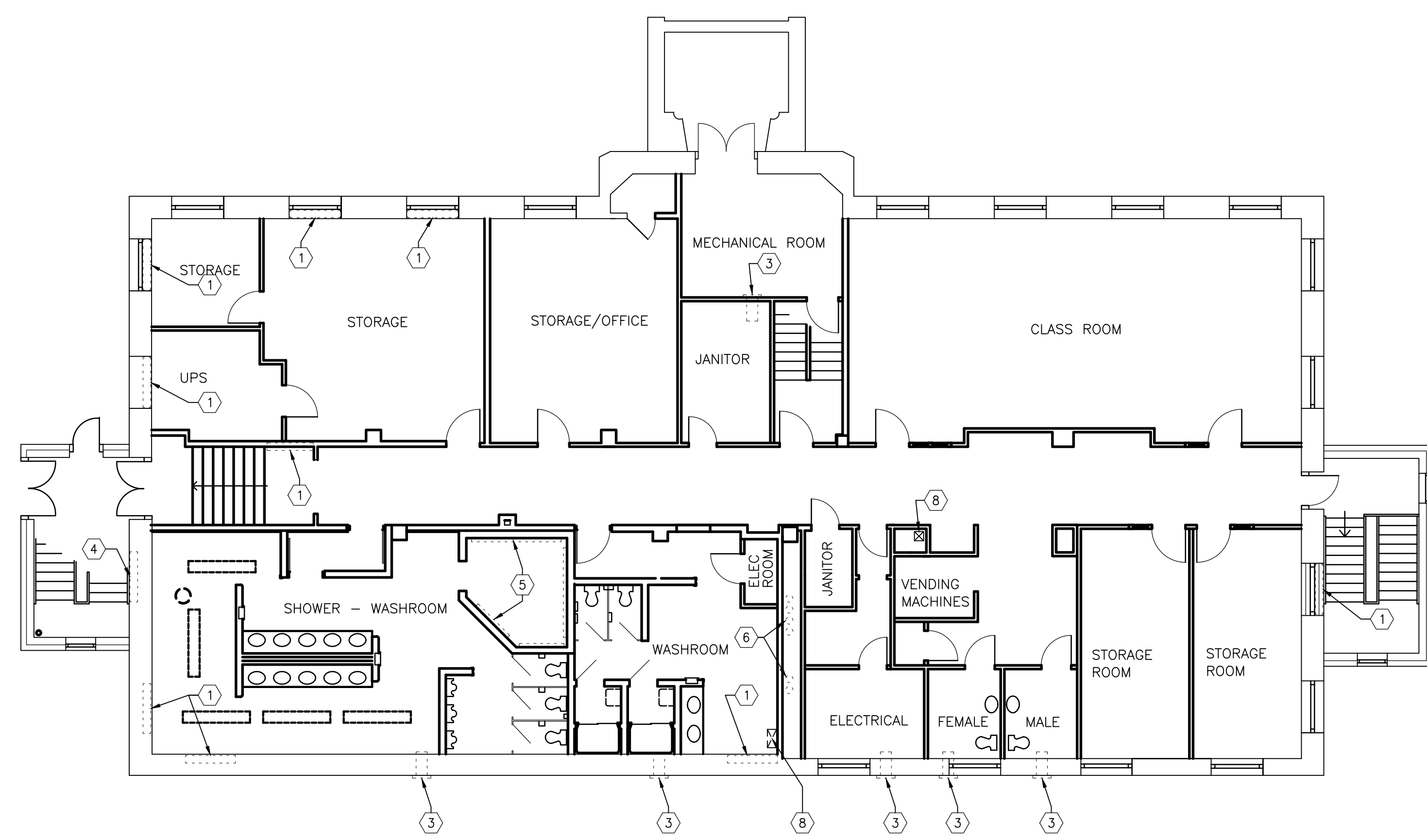
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2 MAIN FLOOR DEMOLITION PLAN  
 A1.1 SCALE: 1:100



3 SECOND FLOOR DEMOLITION PLAN  
 A1.1 SCALE: 1:100



1 BASEMENT DEMOLITION PLAN  
 A1.1 SCALE: 1:100

- GENERAL NOTES:**
1. CONFIRM ALL ITEMS TO BE RETURN TO OWNER PRIOR TO DEMOLITION.
  2. PATCH & MAKE GOOD SURFACES AFFECTED BY DEMOLITION AND/OR NEW CONSTRUCTION READY TO RECEIVE NEW FINISHES INCLUDING MECHANICAL AND ELECTRICAL OPENINGS.
  3. PATCH AND MAKE GOOD EXISTING SURFACES SCHEDULED TO REMAIN, AS REQUIRED TO RECEIVE NEW FINISH. WHERE NO FINISHES ARE SPECIFIED, MATCH ADJACENT EXISTING FINISH.
  4. ANY DISCREPANCIES BETWEEN THESE DRAWINGS AND EXISTING CONDITIONS ARE TO BE REPORTED TO NUMBER TEN.
  5. PATCH, REPAIR & PAINT ALL WALL OPENINGS WHERE DUCTS HAVE BEEN DEMOLISHED.
  6. PROVIDE NEW WALL OPENINGS WHERE NEW DUCTWORK PENETRATES. PATCH, REPAIR & PAINT AS REQUIRED.
  7. STORE AND PROTECT FROM DAMAGE ALL MATERIAL TO BE REINSTALLED.
  8. COORDINATE ALL DEMOLITION, CONSTRUCTION, SALVAGE, RE-USE, ETC. WITH MECHANICAL, ELECTRICAL, & STRUCTURAL.

- DEMOLITION KEY NOTES:**
- 1 DEMOLISH EXISTING RECESSED STEAM CONDENSER. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
  - 2 DEMOLISH EXISTING WINDOW SILL AND GRILLE.
  - 3 REMOVE EXISTING EXHAUST GRILLE AND STORE FOR REUSE.
  - 4 DEMOLISH EXISTING RECESSED FORCE FLOW. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
  - 5 DEMOLISH EXISTING STEAM FINNED TUBE RADIATION. PATCH AND REPAIR TO MATCH EXISTING AS REQUIRED.
  - 6 DEMOLISH EXISTING WALL AS REQUIRED TO ACCESS MECHANICAL LINES TO BE DEMOLISHED. PATCH AND REPAIR WALL TO MATCH EXISTING.
  - 7 NEW OPENING IN FLOOR FOR HVAC DUCT. SEE STRUCTURAL & MECHANICAL FOR ADDITIONAL INFORMATION.
  - 8 NEW OPENING IN CEILING FOR HVAC DUCT. SEE STRUCTURAL & MECHANICAL FOR ADDITIONAL INFORMATION.

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 BASEMENT, MAIN FLOOR,  
 & SECOND FLOOR  
 DEMOLITION PLANS

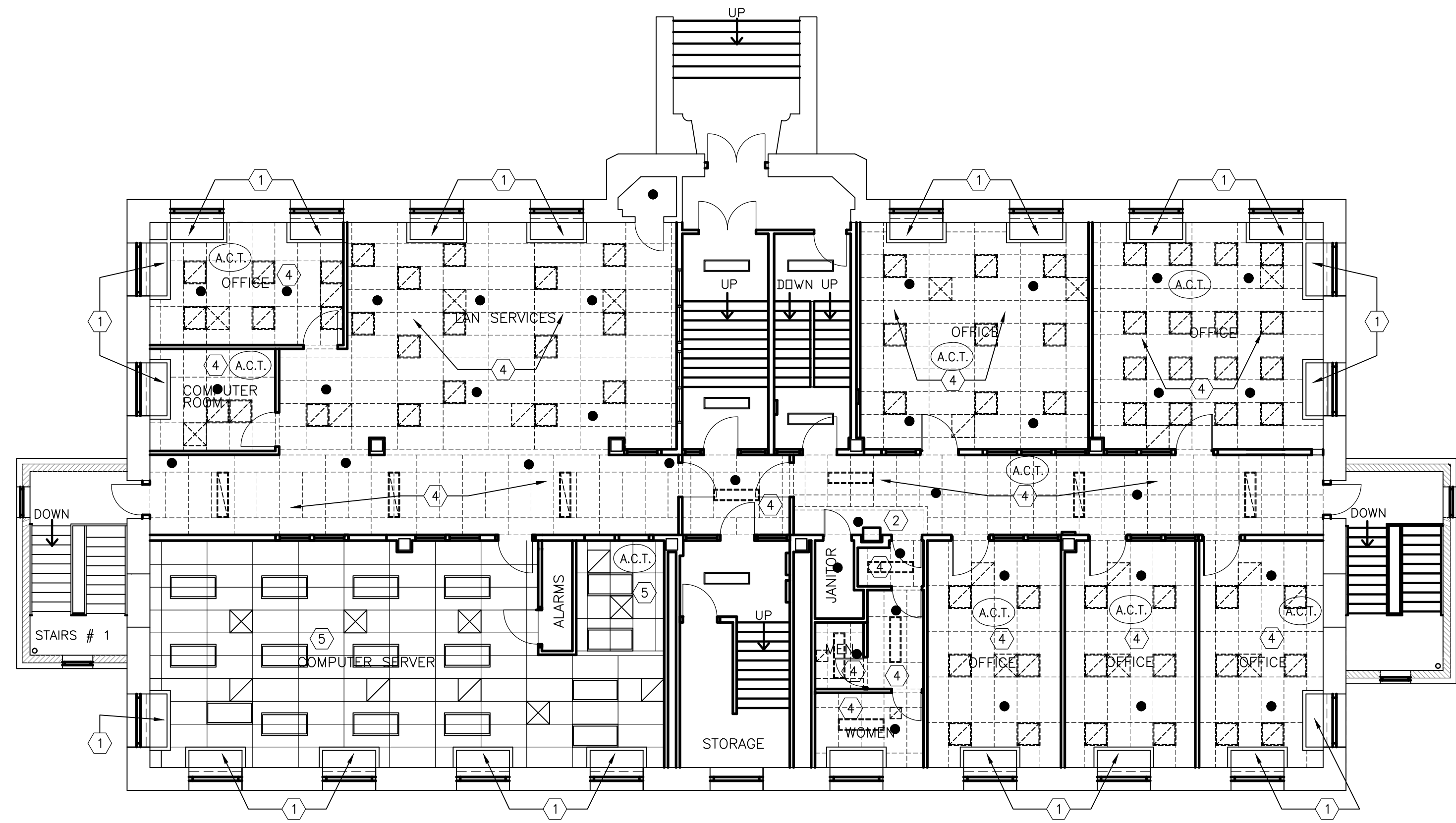
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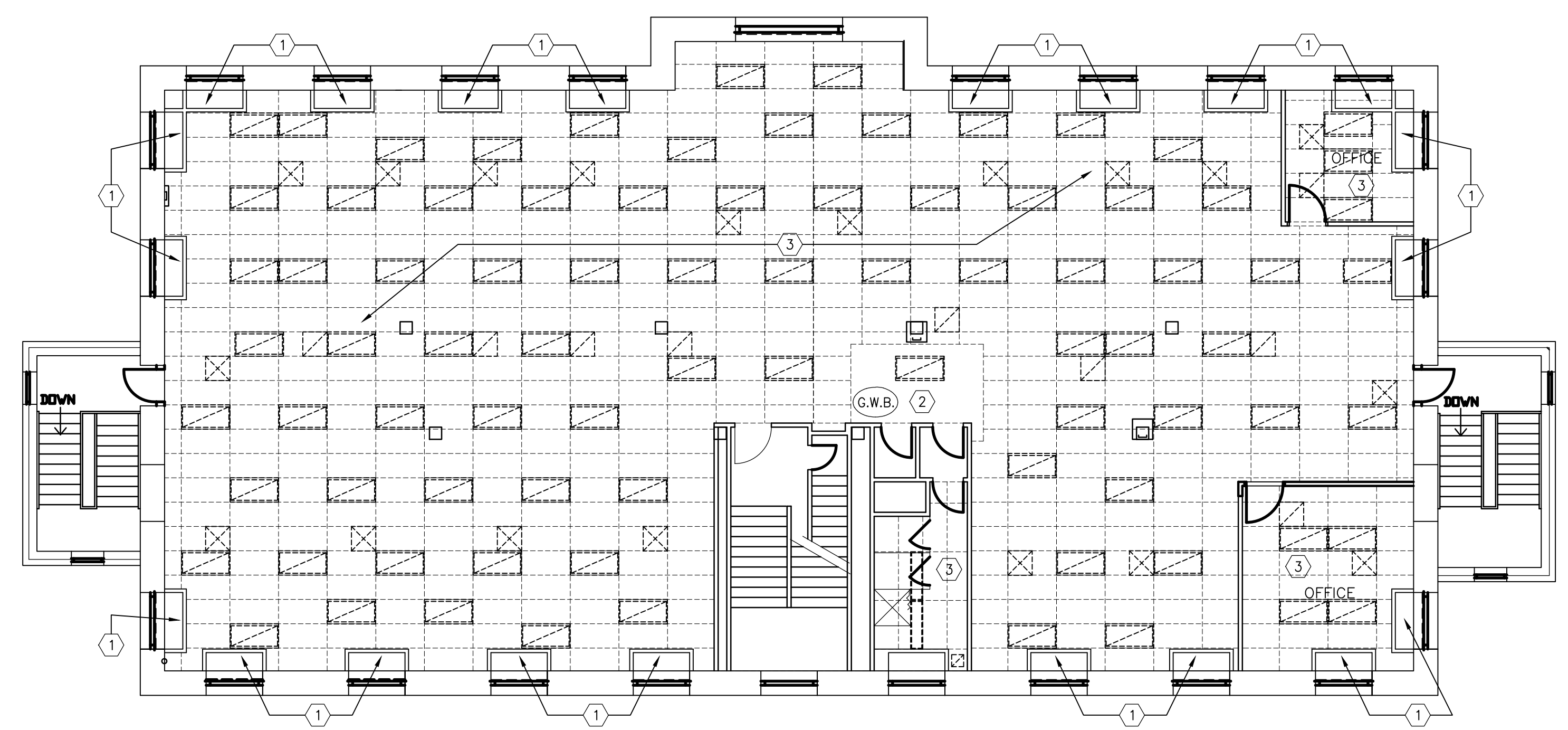
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 checked by: M.F.  
 project no. 2016008  
 sheet no. A1.1

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2 MAIN FLOOR REFLECTED CEILING DEMOLITION PLAN  
 A1.2 SCALE: 1:100



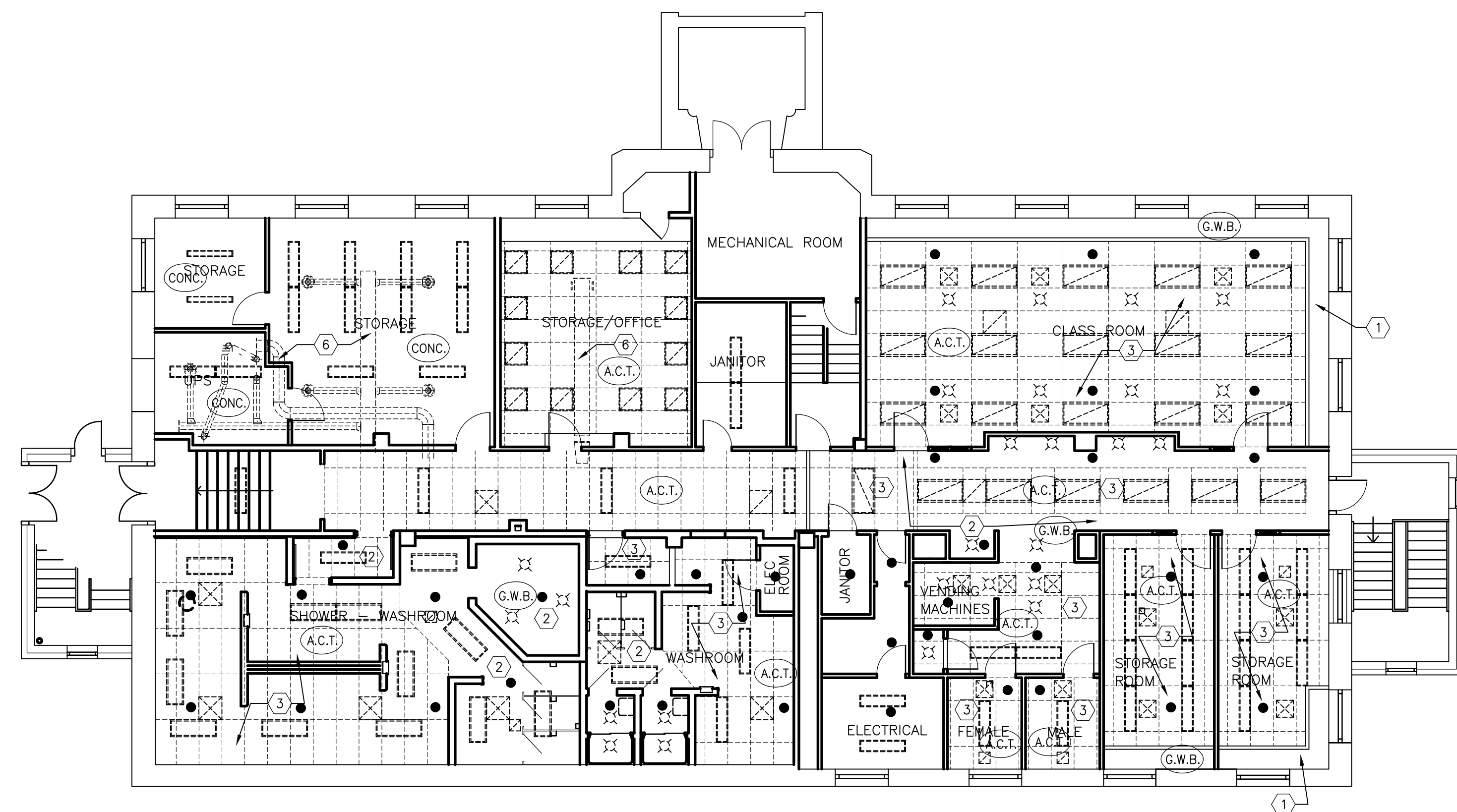
3 SECOND FLOOR REFLECTED CEILING DEMOLITION PLAN  
 A1.2 SCALE: 1:100

**REFLECTED CEILING PLAN LEGEND**

(8'-0")	CEILING HEIGHT (ABOVE FINISHED FLOOR)
[Symbol]	RECESSED FLUORESCENT FIXTURE
[Symbol]	SURFACE MOUNTED OR VALENCE MOUNTED FLUORESCENT FIXTURE
[Symbol]	POTLIGHT
[Symbol]	DEMOLISH RECESSED FLUORESCENT FIXTURE
[Symbol]	DEMOLISH SURFACE MOUNTED OR VALENCE MOUNTED FLUORESCENT FIXTURE
[Symbol]	DEMOLISH POTLIGHT
[Symbol]	SUPPLY AIR GRILLE
[Symbol]	RETURN AIR GRILLE
[Symbol]	DEMOLISH SUPPLY AIR GRILLE
[Symbol]	DEMOLISH RETURN AIR GRILLE

- GENERAL NOTES:**
- CONFIRM ALL ITEMS TO BE RETURN TO OWNER PRIOR TO DEMOLITION.
  - PATCH & MAKE GOOD SURFACES AFFECTED BY DEMOLITION AND/OR NEW CONSTRUCTION READY TO RECEIVE NEW FINISHES INCLUDING MECHANICAL AND ELECTRICAL OPENINGS.
  - PATCH AND MAKE GOOD EXISTING SURFACES SCHEDULED TO REMAIN, AS REQUIRED TO RECEIVE NEW FINISH WHERE NO FINISHES ARE SPECIFIED, MATCH ADJACENT EXISTING FINISH.
  - ANY DISCREPANCIES BETWEEN THESE DRAWINGS AND EXISTING CONDITIONS ARE TO BE REPORTED TO NUMBER TEN.
  - PATCH, REPAIR & PAINT ALL WALL OPENINGS WHERE DUCTS HAVE BEEN DEMOLISHED.
  - PROVIDE NEW WALL OPENINGS WHERE NEW DUCTWORK PENETRATES. PATCH, REPAIR & PAINT AS REQUIRED.
  - STORE AND PROTECT FROM DAMAGE ALL MATERIAL TO BE REINSTALLED.
  - COORDINATE ALL DEMOLITION, CONSTRUCTION, SALVAGE, RE-USE, ETC. WITH MECHANICAL, ELECTRICAL, & STRUCTURAL.

- DEMOLITION KEY NOTES:**
- EXISTING G.W.B. BULKHEAD / CEILING TO REMAIN
  - DEMOLISH EXISTING G.W.B. BULKHEAD / CEILING. REFER TO MECHANICAL & ELECTRICAL FOR ITEMS TO BE SALVAGED & RE-USED.
  - DEMOLISH EXISTING ACOUSTIC TILE CEILING GRID. STORE CEILING TILES AND REINSTALL. REFER TO MECHANICAL & ELECTRICAL FOR ADDITIONAL ITEMS TO BE SALVAGED AND RE-USED.
  - DEMOLISH EXISTING ACOUSTIC TILE CEILING GRID AND TILES. REFER TO MECHANICAL & ELECTRICAL FOR ADDITIONAL ITEMS TO BE SALVAGED AND RE-USED.
  - EXISTING ACOUSTIC TILE CEILING GRID AND TILE TO REMAIN.
  - EXPOSED HVAC DUCTWORK TO BE DEMOLISHED. REFER TO MECHANICAL FOR COMPLETE HVAC DEMOLITION DRAWINGS.



1 BASEMENT REFLECTED CEILING DEMOLITION PLAN  
 A1.2 SCALE: 1:100

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 BASEMENT, MAIN FLOOR,  
 & SECOND FLOOR REFLECTED CEILING  
 DEMOLITION PLANS

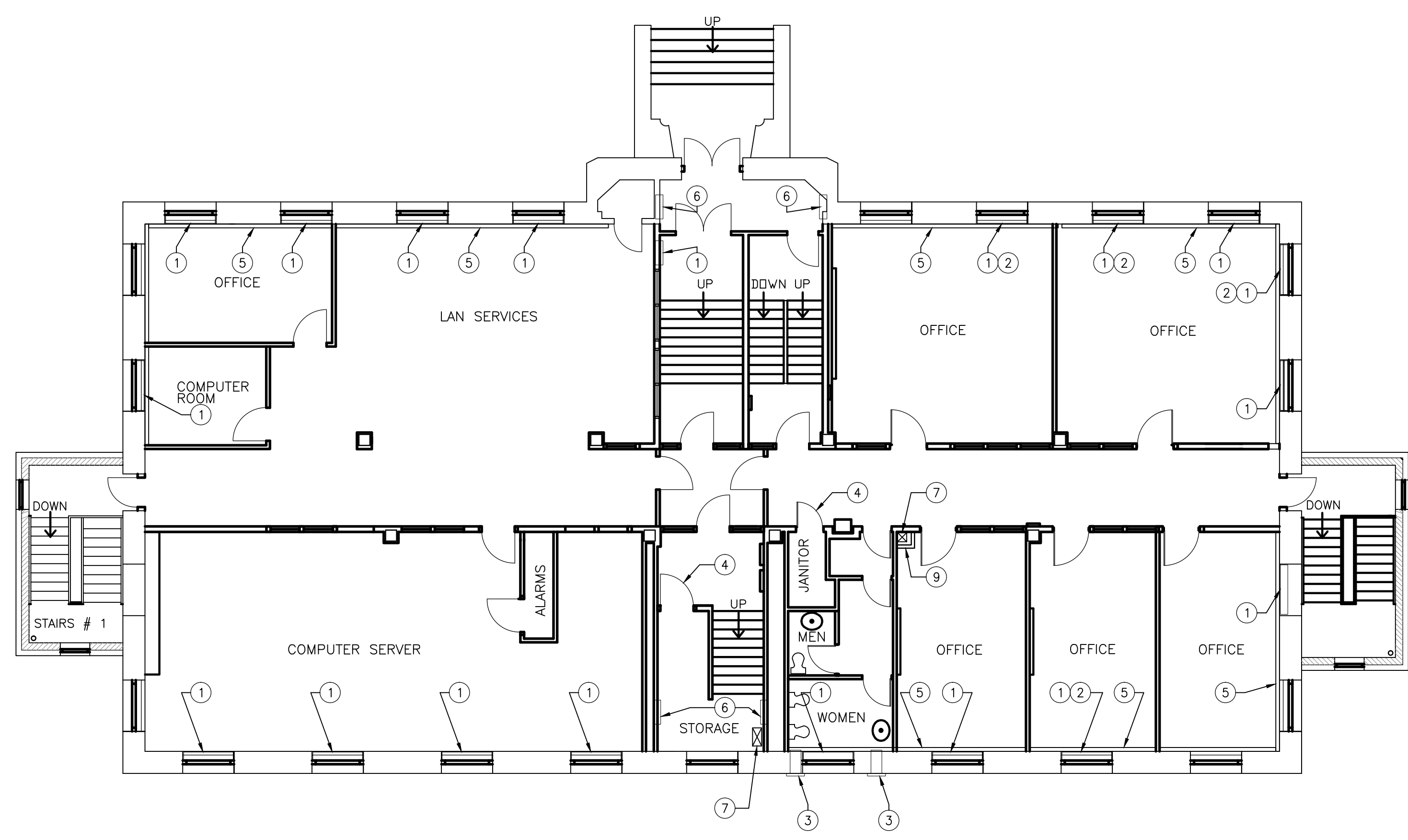
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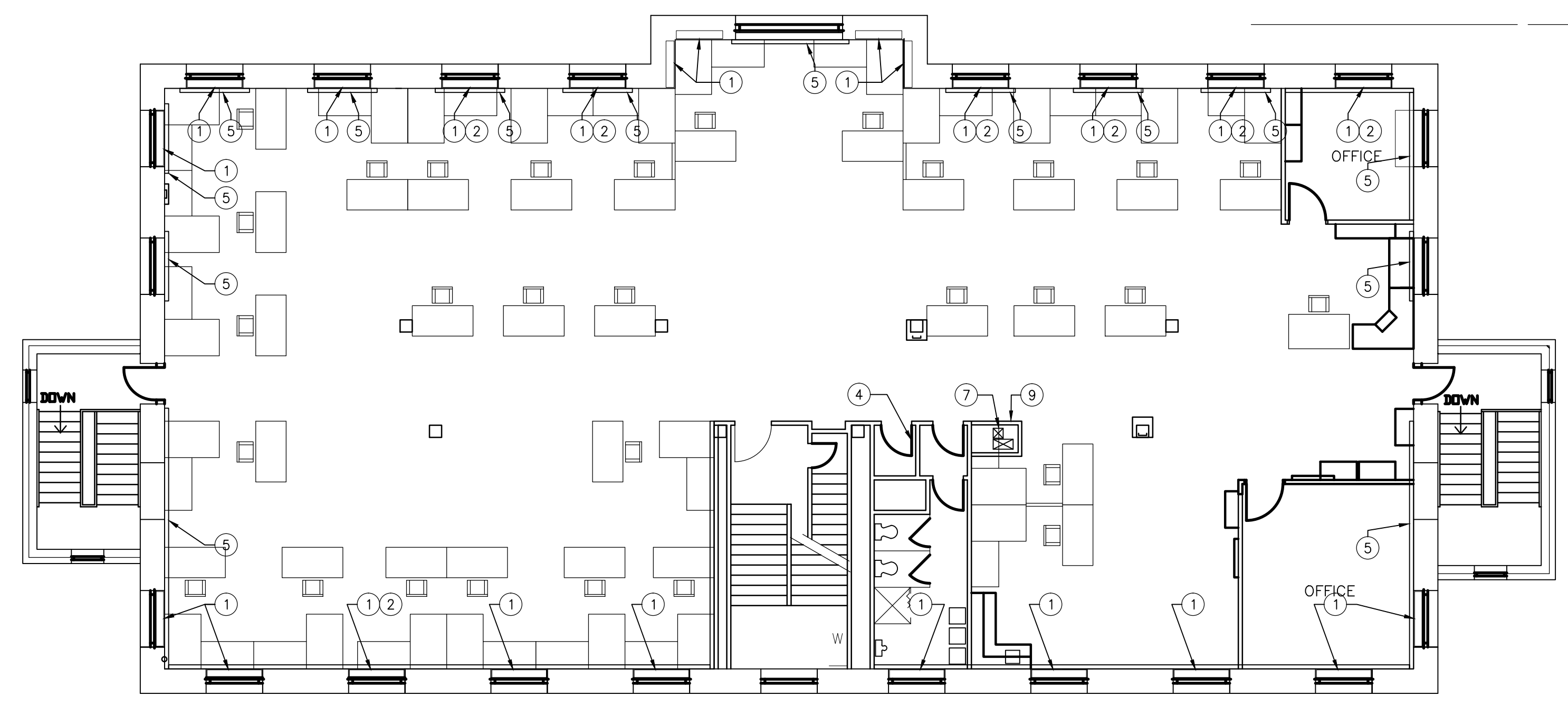
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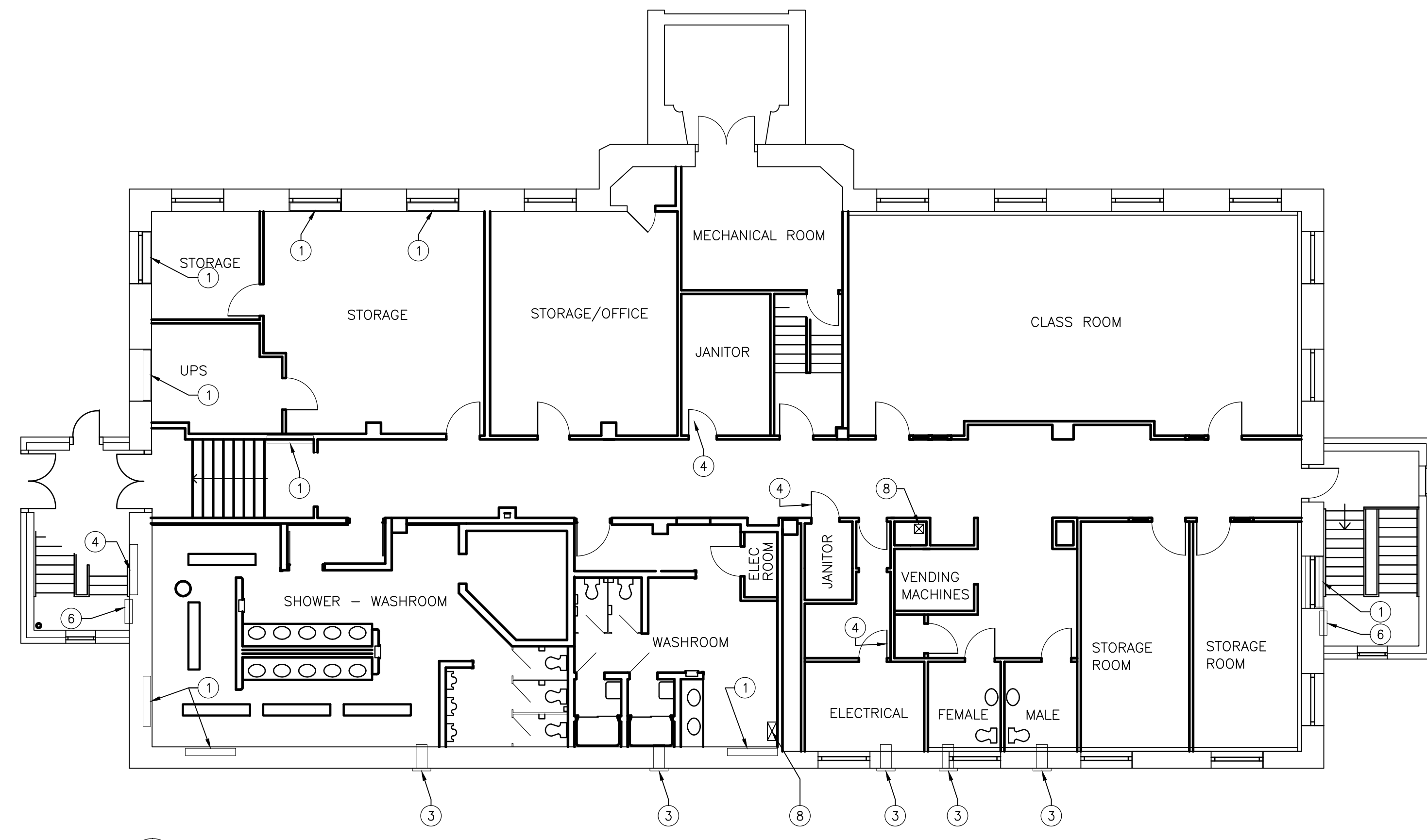
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2 MAIN FLOOR NEW CONSTRUCTION PLAN  
 A1.3 SCALE: 1:100



3 SECOND FLOOR NEW CONSTRUCTION PLAN  
 A1.3 SCALE: 1:100



1 BASEMENT NEW CONSTRUCTION PLAN  
 A1.3 SCALE: 1:100

- GENERAL NOTES:**
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- CONSTRUCTION KEY NOTES**
- 1 INFILL WALL OPENING WITH 16 G.W.B. ON 38 STEEL STUDS. INSTALL FLUSH WITH EXISTING WALL SURFACE. PAINT TO MATCH EXISTING.
  - 2 NEW WOOD WINDOW SILL. MATCH EXISTING CONSTRUCTION. PAINT TO MATCH EXISTING.
  - 3 -INFILL WALL OPENING WITH 16 G.W.B., 38 STEEL STUDS, & 12 EXTERIOR G.W.B. INSTALL FLUSH WITH EXISTING INTERIOR WALL SURFACE. PAINT TO MATCH EXISTING.  
 -CAULK AROUND PERIMETER OF EXTERIOR G.W.B. TO SEAL TO EXISTING WALL.  
 -INSTALL 50mm RIGID INSULATION. SEAL AROUND INSULATION WITH EXPANDING FOAM INSULATION.  
 -CLOSE OFF EXISTING LOUVER WITH SHEET METAL BACK PAN. INSTALL IN EXISTING OPENING. PAINT TO MATCH EXISTING AND CAULK PERIMETER.
  - 4 NEW 300x150 FIRE RATED GRILLE IN EXISTING DOOR.
  - 5 NEW PERIMETER FINNED TUBE RADIATION. REFER TO MECHANICAL FOR DETAILS. CORE HOLES THROUGH CONCRETE FLOOR/CEILING FOR NEW 25mm PIPING AS PER MECHANICAL DRAWINGS.
  - 6 NEW RECESSED FORCE FLOW UNIT IN EXISTING WALL. PATCH AND REPAIR WALLS AROUND UNIT.
  - 7 NEW OPENING IN FLOOR FOR HVAC DUCT. SEE STRUCTURAL & MECHANICAL FOR ADDITIONAL INFORMATION.
  - 8 NEW OPENING IN CEILING FOR HVAC DUCT. SEE STRUCTURAL & MECHANICAL FOR ADDITIONAL INFORMATION.
  - 9 16 G.W.B. ON ONE SIDE OF 90 STEEL STUDS AT 400 O/C. PAINT TO MATCH ADJACENT WALLS.

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project  
 BASEMENT, MAIN FLOOR,  
 & SECOND FLOOR PLANS  
 NEW CONSTRUCTION

sheet title

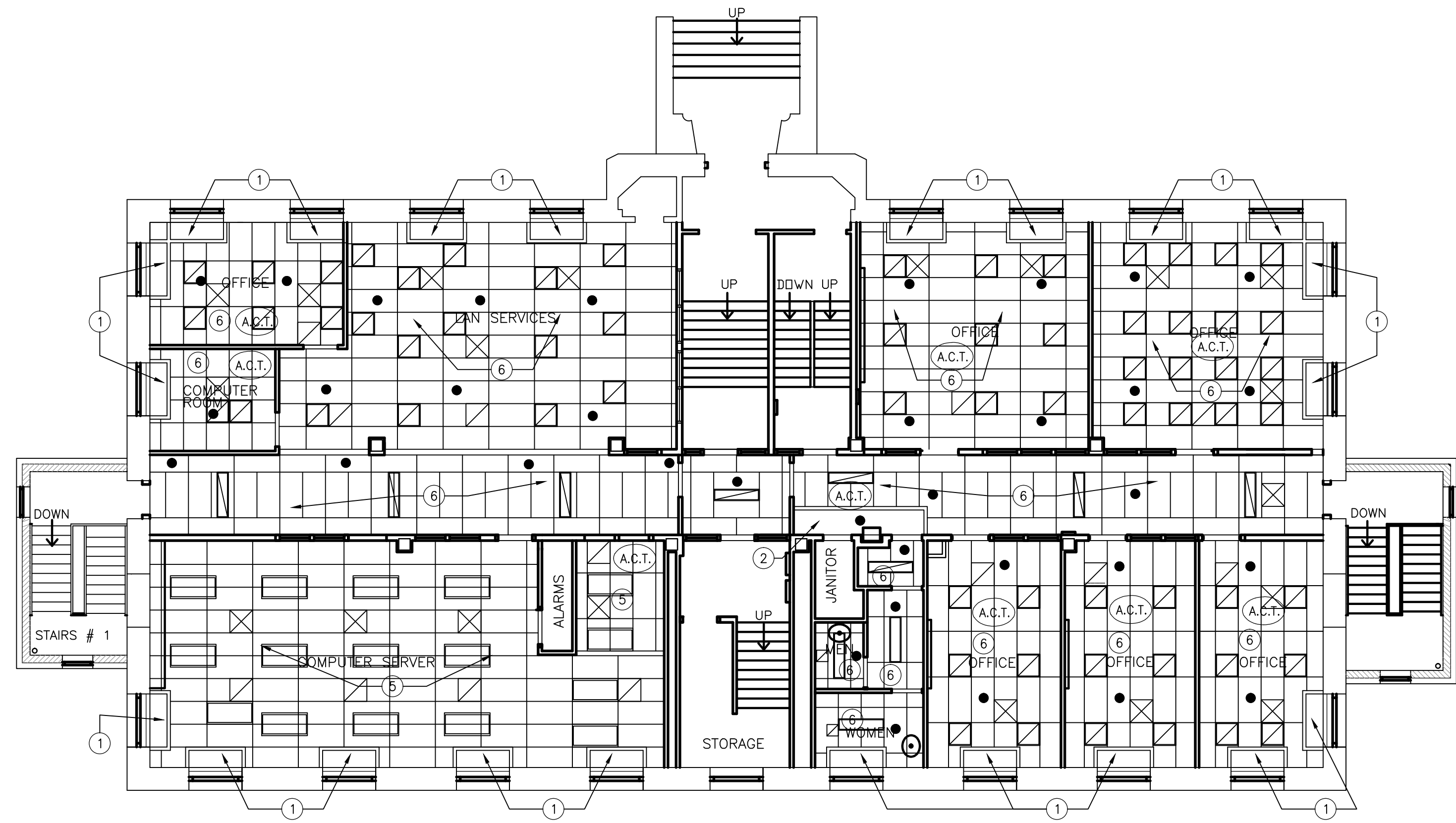
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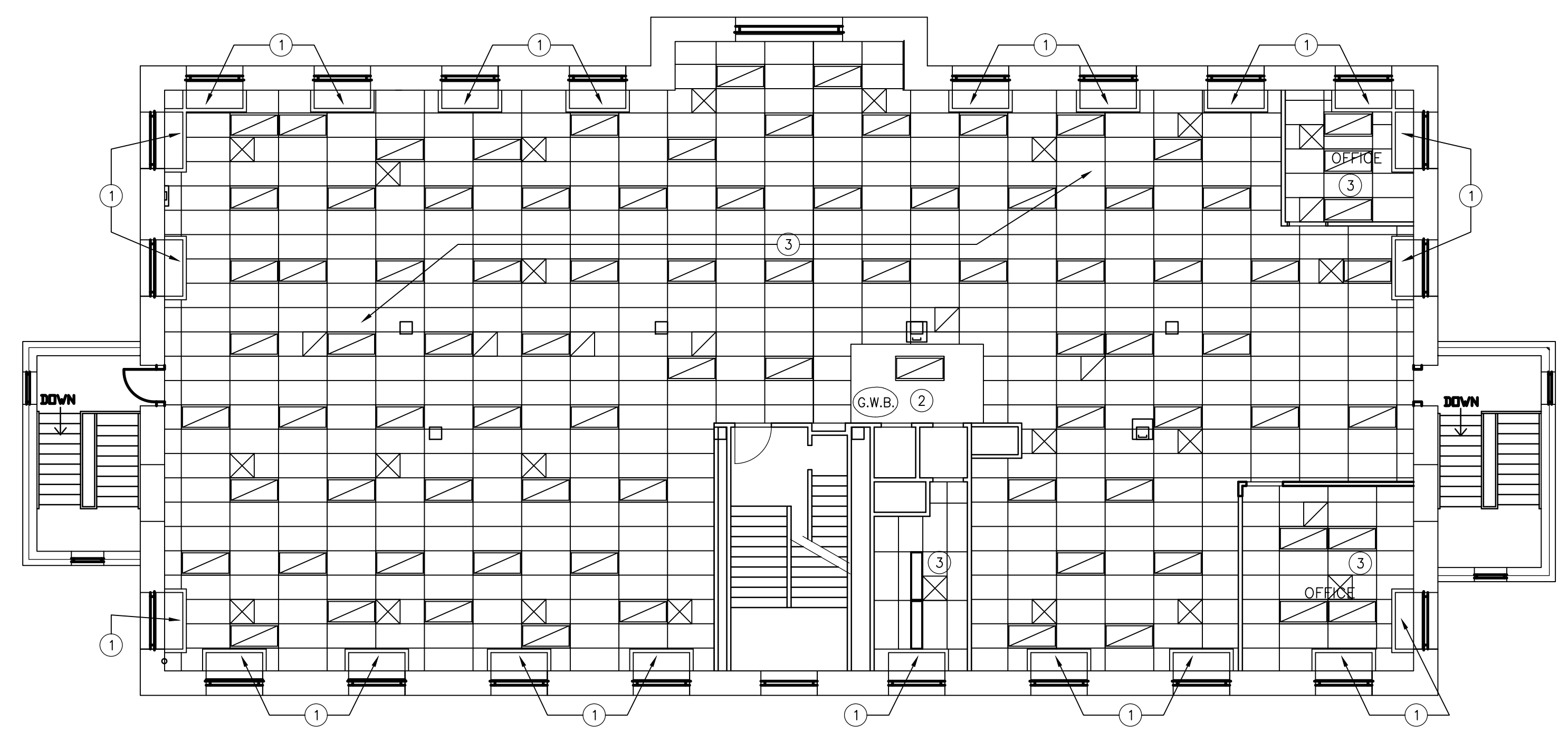
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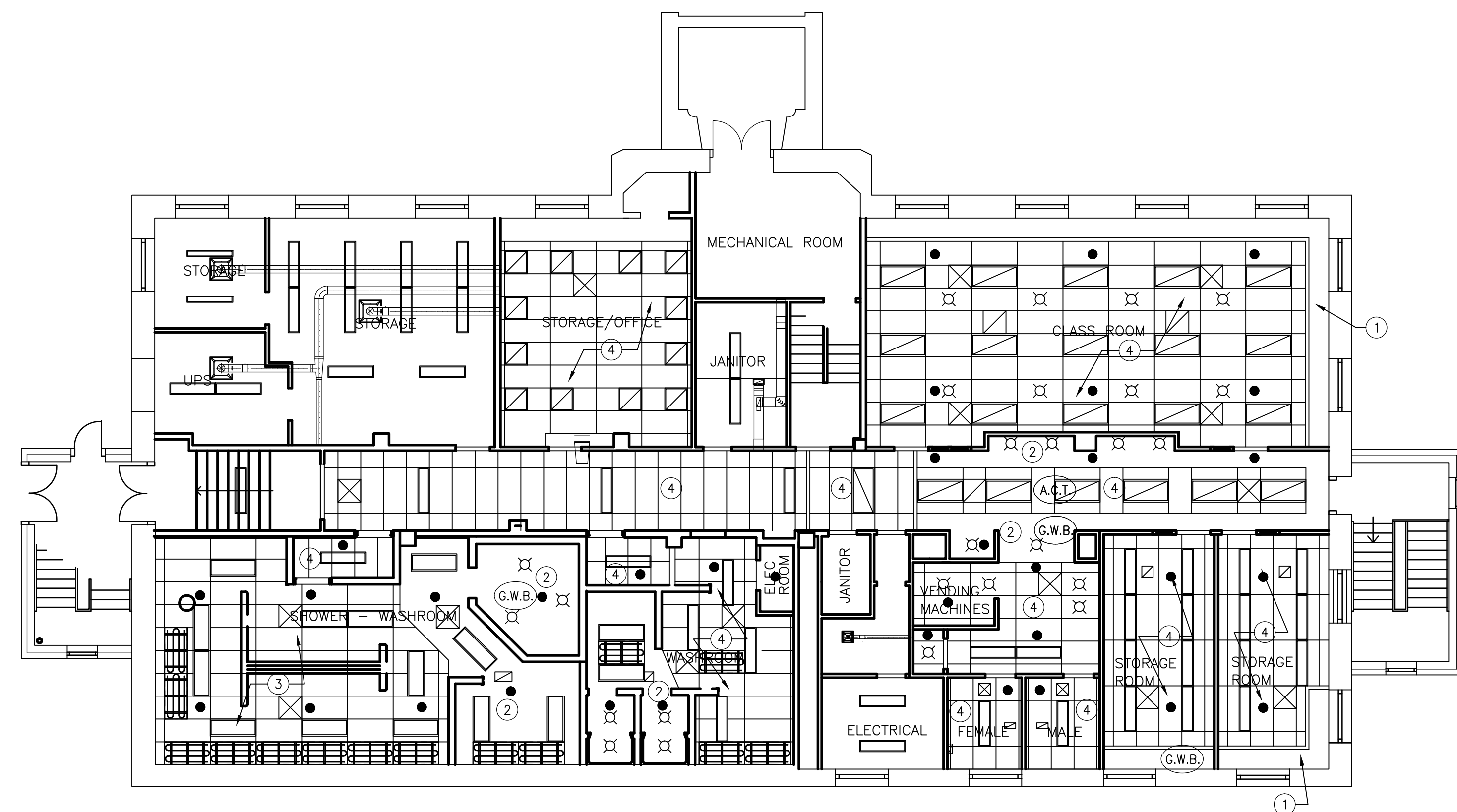
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2 MAIN FLOOR NEW CONSTRUCTION PLAN  
 A1.4 SCALE: 1:100



3 SECOND FLOOR REFLECTED CEILING PLAN  
 A1.4 SCALE: 1:100



1 BASEMENT REFLECTED CEILING PLAN  
 A1.4 SCALE: 1:100

**REFLECTED CEILING PLAN LEGEND**

- ⊖ 8'-0" CEILING HEIGHT (ABOVE FINISHED FLOOR)
- ▭ RECESSED FLUORESCENT FIXTURE
- ▭ SURFACE MOUNTED OR VALENCE MOUNTED FLUORESCENT FIXTURE
- ⊗ POTLIGHT
- ⊠ SUPPLY AIR GRILLE
- ⊡ RETURN AIR GRILLE
- ▨ RADIANT HEATING PANEL

- GENERAL NOTES:**
- CONFIRM ALL ITEMS TO BE RETURN TO OWNER PRIOR TO DEMOLITION.
  - PATCH & MAKE GOOD SURFACES AFFECTED BY DEMOLITION AND/OR NEW CONSTRUCTION READY TO RECEIVE NEW FINISHES INCLUDING MECHANICAL AND ELECTRICAL OPENINGS.
  - PATCH AND MAKE GOOD EXISTING SURFACES SCHEDULED TO REMAIN, AS REQUIRED TO RECEIVE NEW FINISH, WHERE NO FINISHES ARE SPECIFIED, MATCH ADJACENT EXISTING FINISH.
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  - PROVIDE NEW WALL OPENINGS WHERE NEW DUCTWORK PENETRATES. PATCH, REPAIR & PAINT AS REQUIRED.
  - STORE AND PROTECT FROM DAMAGE ALL MATERIAL TO BE REINSTALLED.
  - COORDINATE ALL DEMOLITION, CONSTRUCTION, SALVAGE, RE-USE, ETC. WITH MECHANICAL, ELECTRICAL, & STRUCTURAL.

- CEILING KEY NOTES:**
- EXISTING G.W.B. BULKHEAD / CEILING TO REMAIN
  - NEW G.W.B. BULKHEAD / CEILING. MATCH EXISTING LOCATION AND HEIGHT.
  - INSTALL NEW CEILING GRID AND REINSTALL EXISTING TILES TO MATCH NEW LAYOUT.
  - INSTALL NEW CEILING GRID AND REINSTALL EXISTING TILES TO MATCH EXISTING LAYOUT.
  - EXISTING ACOUSTIC TILE CEILING GRID AND TILES TO REMAIN.
  - INSTALL NEW CEILING GRID AND TILES TO MATCH EXISTING LAYOUT.

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project  
 BASEMENT, MAIN FLOOR,  
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 PLANS

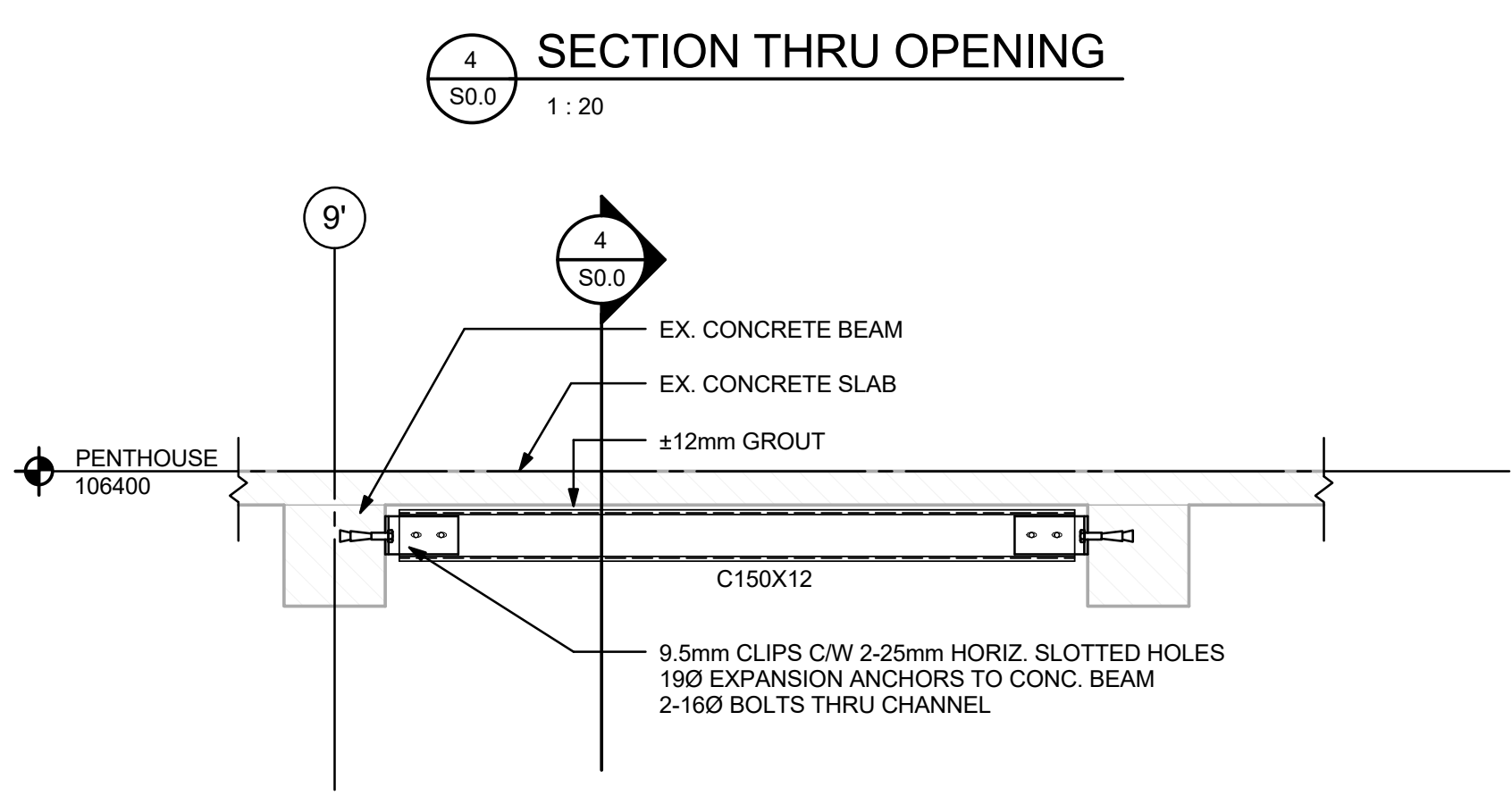
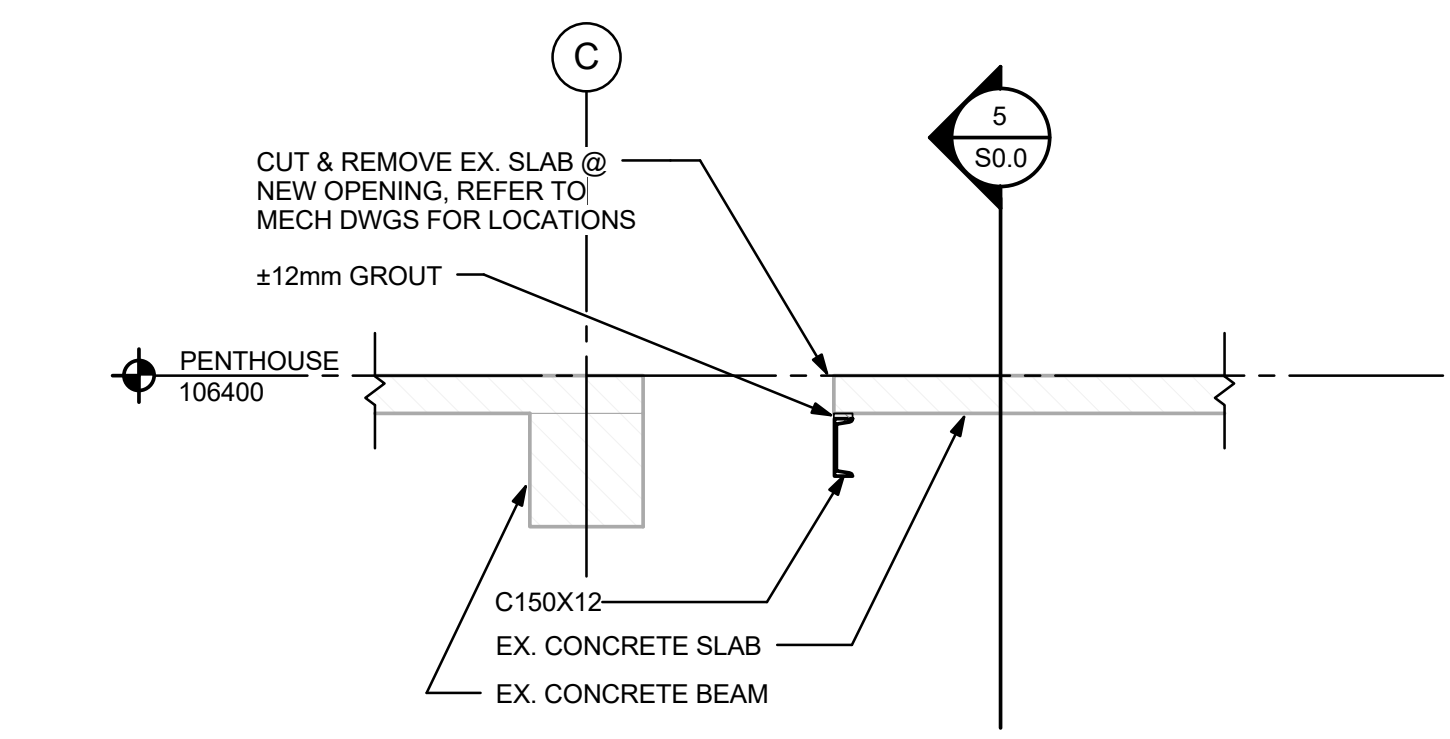
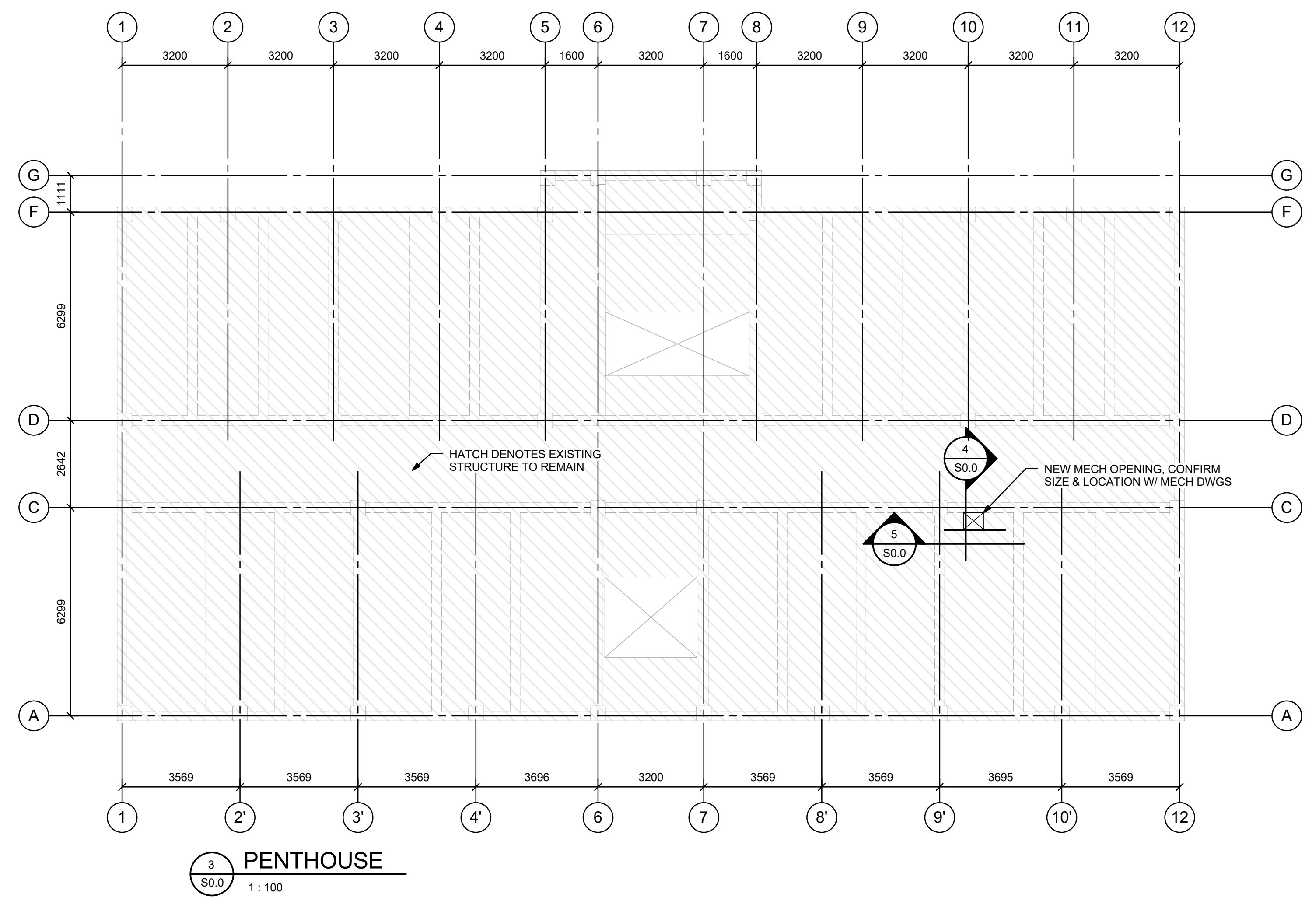
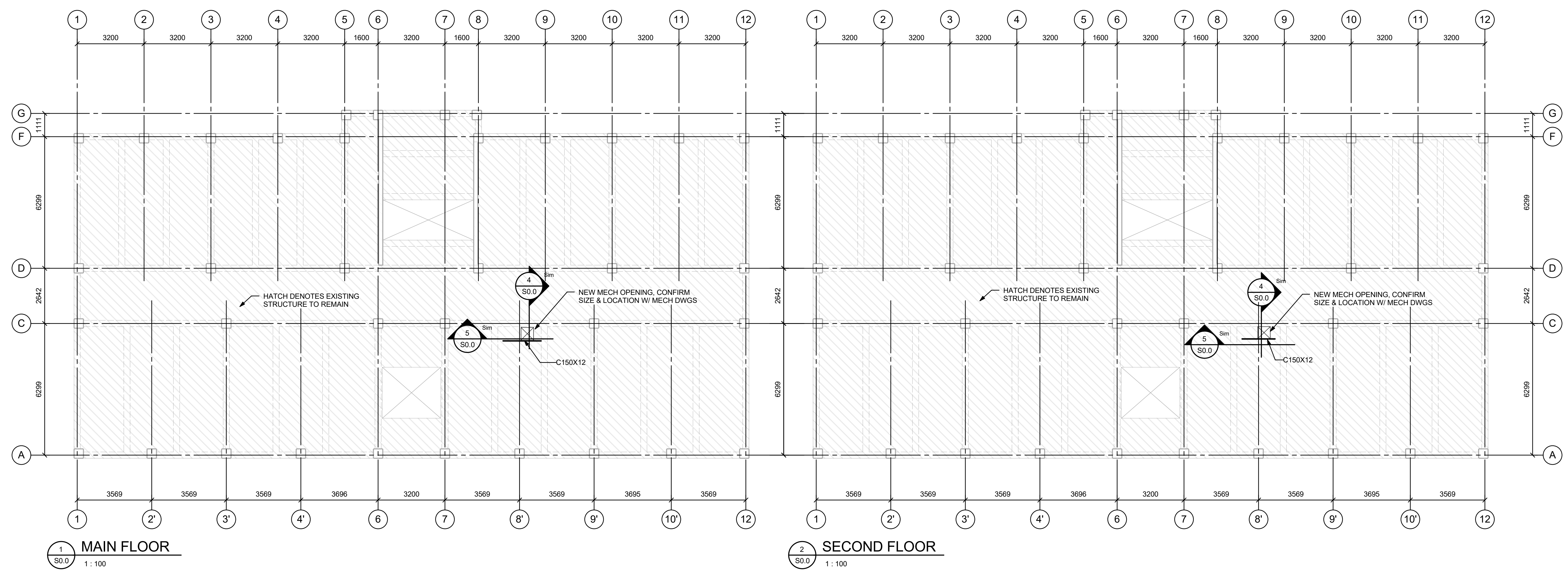
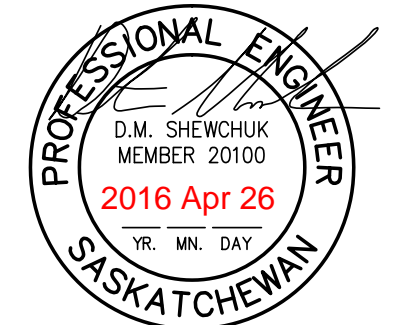
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 project no. 2016008  
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project: GOVERNMENT OF CANADA  
 DRIVER TRAINING BUILDING  
 REGINA, SK

sheet title: PLANS & DETAILS

consultant:

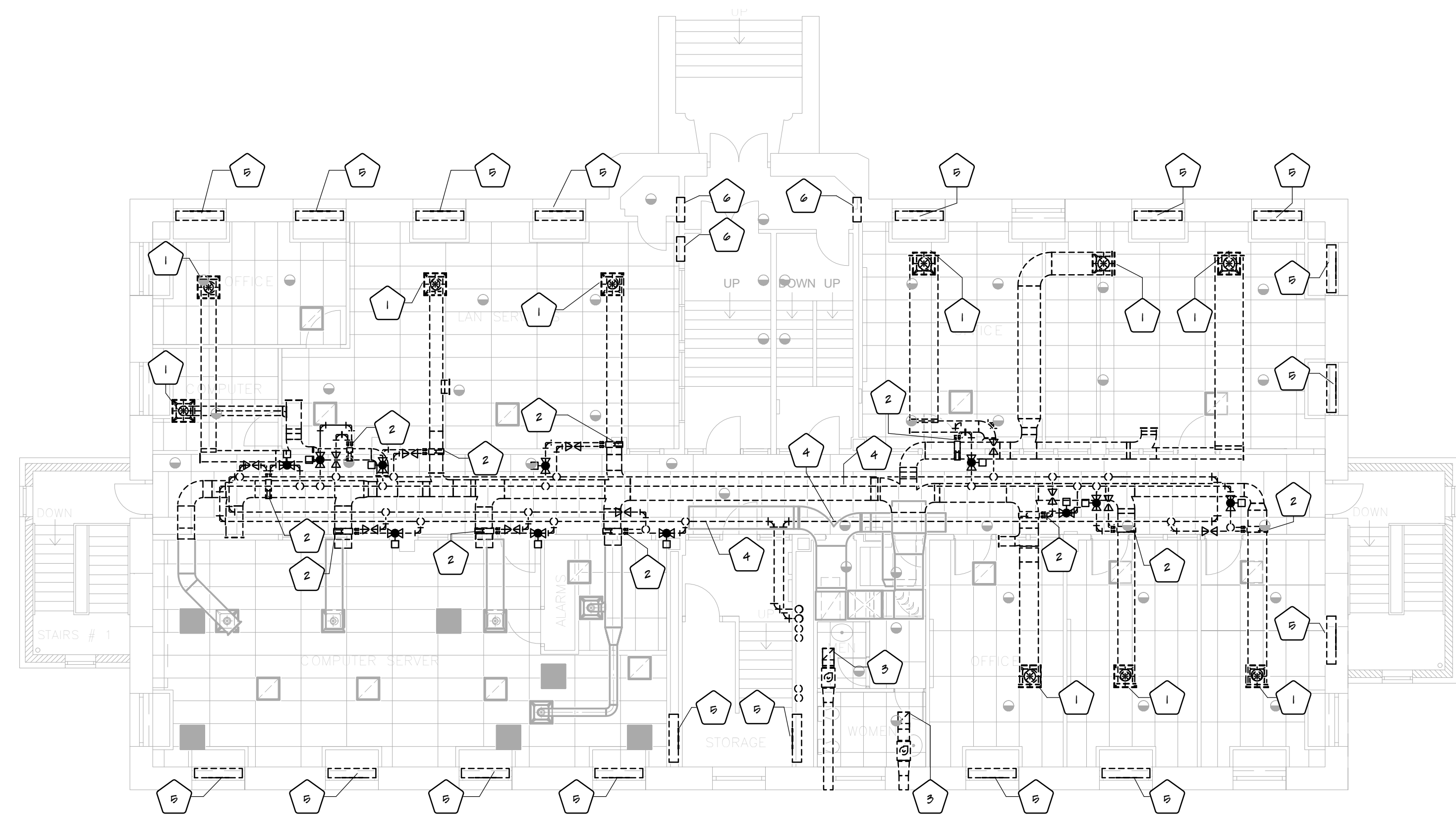
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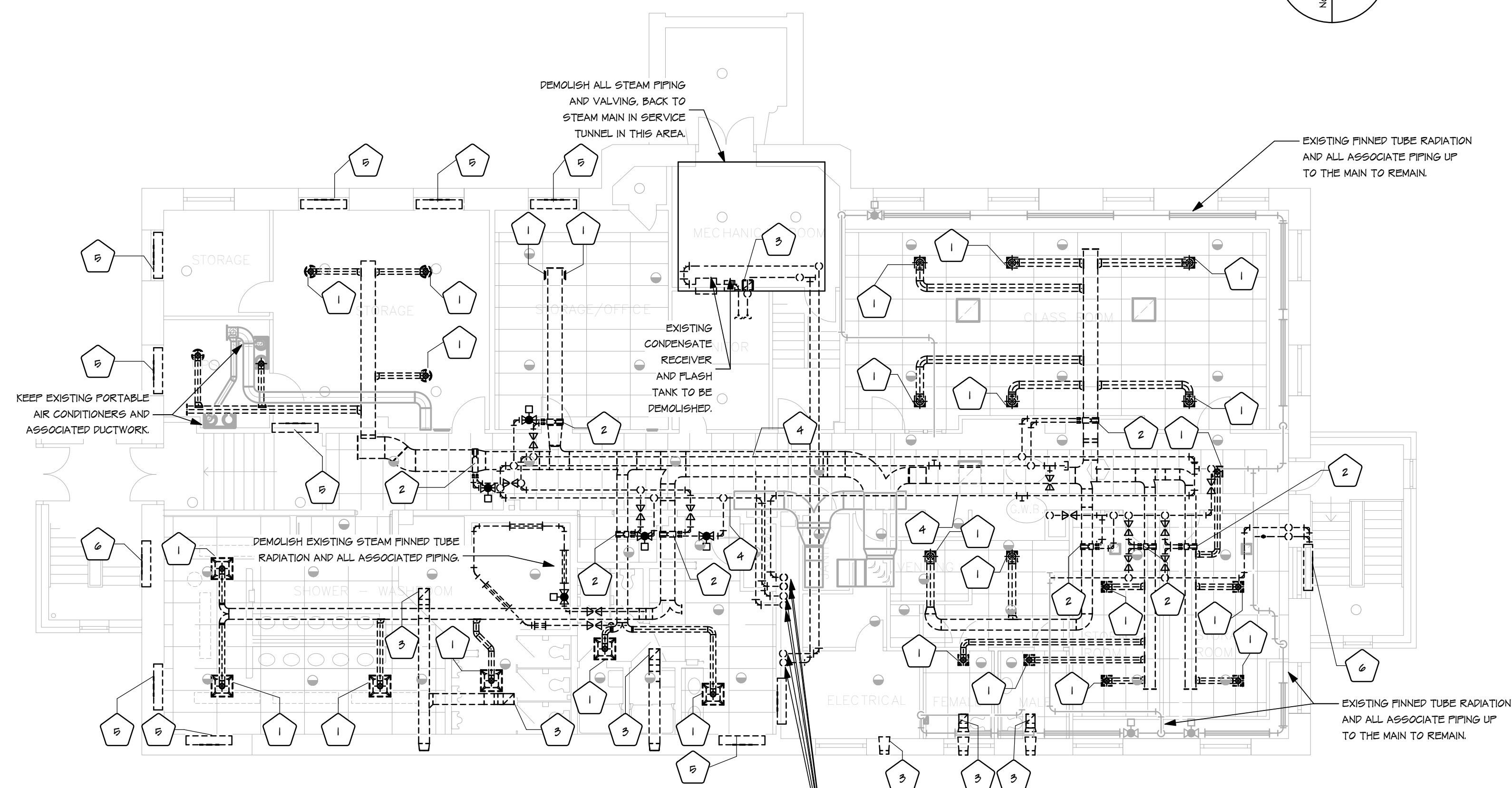
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KEYNOTE LEGEND	
NOTE	DESCRIPTION
1	DEMOLISH DIFFUSER AND ASSOCIATED DUCTWORK, HANGERS, FITTINGS AND APURTENANCES BACK TO DUCT MAIN.
2	DEMOLISH REHEAT COILS AND ASSOCIATED PIPING, VALVES, HANGERS AND ALL OTHER APURTENANCES.
3	DEMOLISH EXHAUST GRILLE, DUCTWORK, ASSOCIATED FANS, HANGERS, FITTINGS AND APURTENANCES BACK TO DUCT MAIN. PATCH ALL BUILDING ENVELOPE PENETRATIONS AS PER ARCH INSTRUCTIONS. SEE ARCHITECTURAL DRAWINGS FOR DETAILS.
4	DEMOLISH HYDRONIC SUPPLY AND RETURN LOOP PIPING AND ASSOCIATED PIPING, VALVES, HANGERS AND ALL OTHER APURTENANCES.
5	DEMOLISH EXISTING STEAM CONDENSER, CAP OFF AND MOTHBALL STEAM PIPING.
6	DEMOLISH EXISTING FORCE FLOW AND ASSOCIATED PIPING, VALVES, HANGERS AND ALL OTHER APURTENANCES.



2 EXISTING MAIN FLOOR  
 M2.1 1:100



1 EXISTING BASEMENT  
 M2.1 1:100



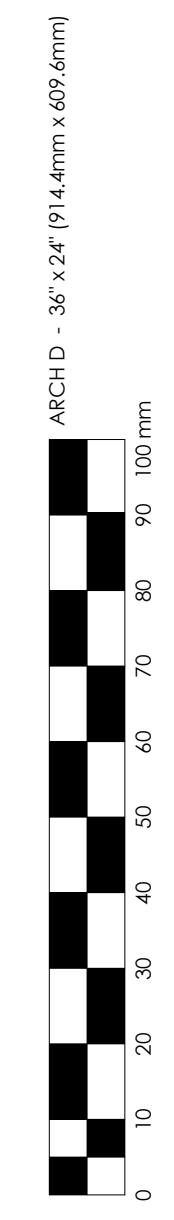
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project: GOVERNMENT OF CANADA  
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sheet title: EXISTING SYSTEMS DEMOLITION -  
 BASEMENT AND MAIN FLOOR

**R J ENGLAND**  
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 Telephone: 306.546.5280  
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consultant: RJE  
 seal: AS INDICATED  
 drawn by: CJB  
 checked by: RJE  
 project no.: 2016008  
 scale: AS INDICATED  
 date: 2016.04.15  
 sheet no.: M2.1  
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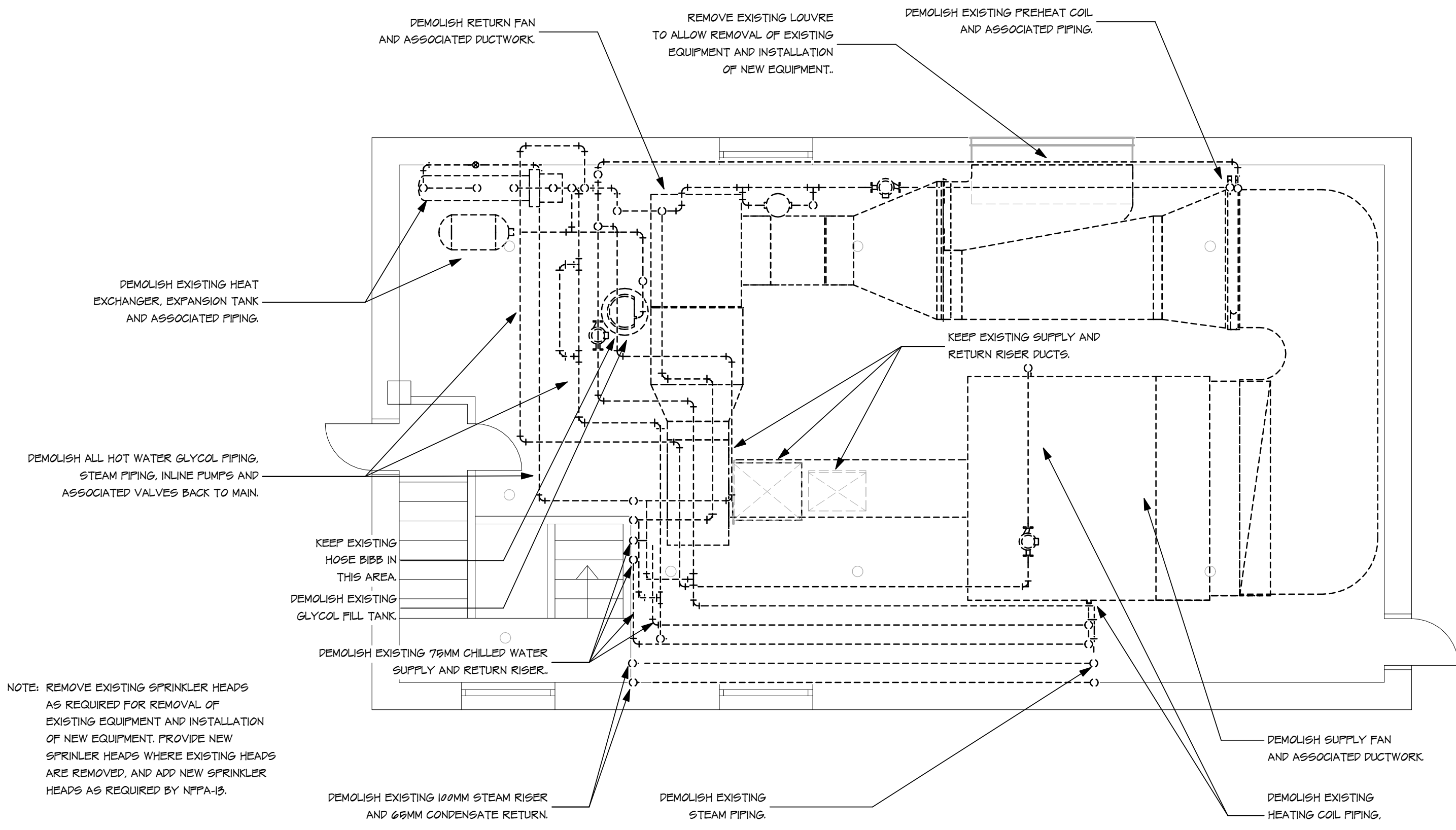




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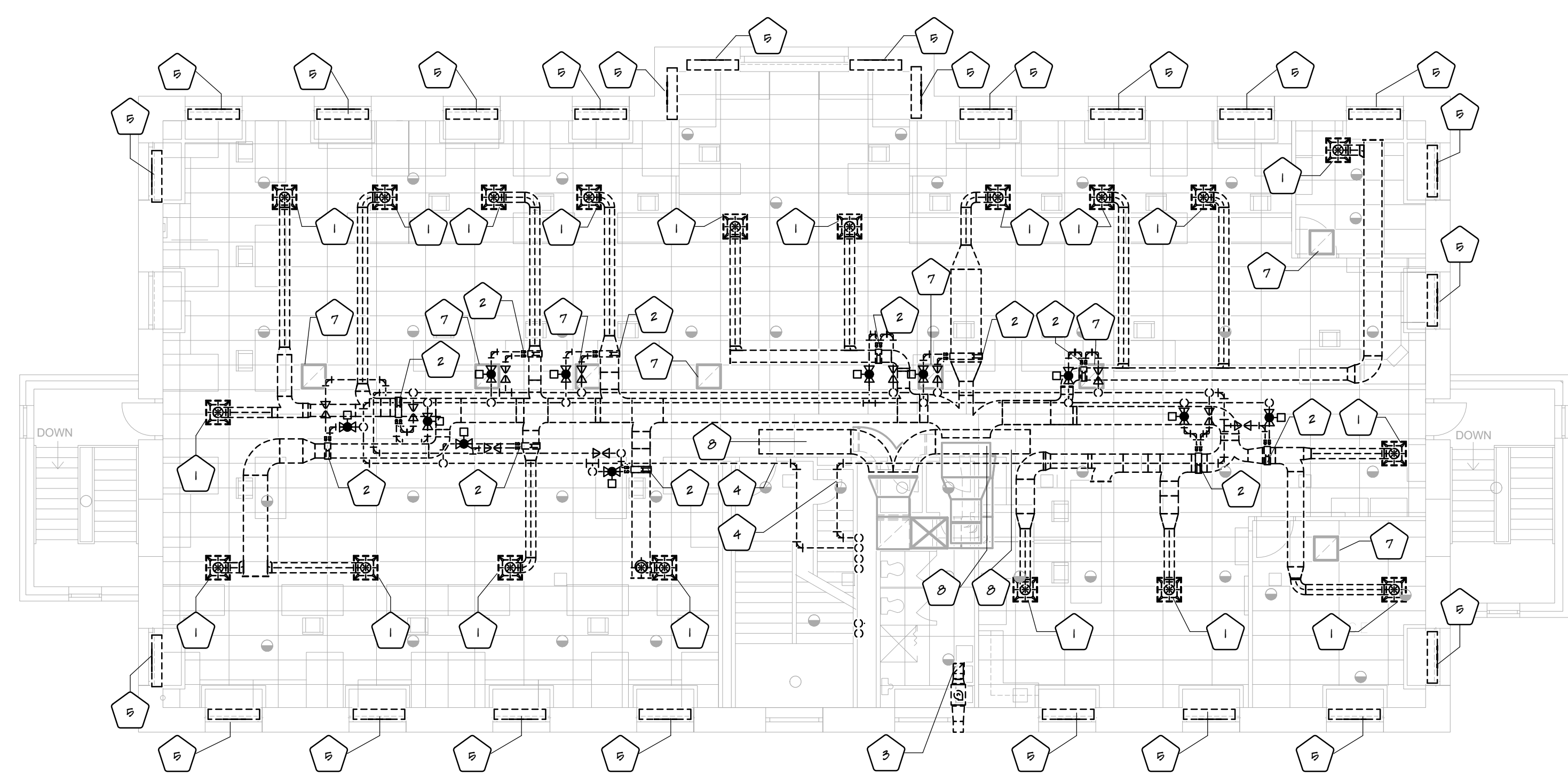
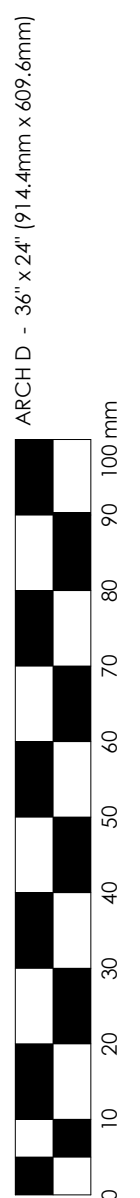
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1	ISSUED FOR TENDER		APRIL 26, 2016
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KEYNOTE LEGEND	
NOTE	DESCRIPTION
1	DEMOLISH DIFFUSER AND ASSOCIATED DUCTWORK, HANGERS, FITTINGS AND APURTENANCES BACK TO DUCT MAIN.
2	DEMOLISH REHEAT COILS AND ASSOCIATED PIPING, VALVES, HANGERS AND ALL OTHER APURTENANCES.
3	DEMOLISH EXHAUST GRILLE, DUCTWORK, ASSOCIATED FANS, HANGERS, FITTINGS AND APURTENANCES BACK TO DUCT MAIN. PATCH ALL BUILDING ENVELOPE PENETRATIONS AS PER ARCH INSTRUCTIONS. SEE ARCHITECTURAL DRAWINGS FOR DETAILS.
4	DEMOLISH HYDRONIC SUPPLY AND RETURN LOOP PIPING AND ASSOCIATED PIPING, VALVES, HANGERS AND ALL OTHER APURTENANCES.
5	DEMOLISH EXISTING STEAM CONDENSER. CAP OFF AND MOTHBALL STEAM PIPING.
7	EXISTING RETURN GRILLE TO REMAIN.
9	EXISTING DUCT MAIN TO REMAIN.



NOTE: REMOVE EXISTING SPRINKLER HEADS AS REQUIRED FOR REMOVAL OF EXISTING EQUIPMENT AND INSTALLATION OF NEW EQUIPMENT. PROVIDE NEW SPRINKLER HEADS WHERE EXISTING HEADS ARE REMOVED, AND ADD NEW SPRINKLER HEADS AS REQUIRED BY NFPA-10.

2 EXISTING PENTHOUSE MECHANICAL ROOM  
 1:50



1 EXISTING SECOND FLOOR  
 1:100



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sheet title  
 EXISTING SYSTEMS DEMOLITION -  
 SECOND FLOOR AND PENTHOUSE

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consultant

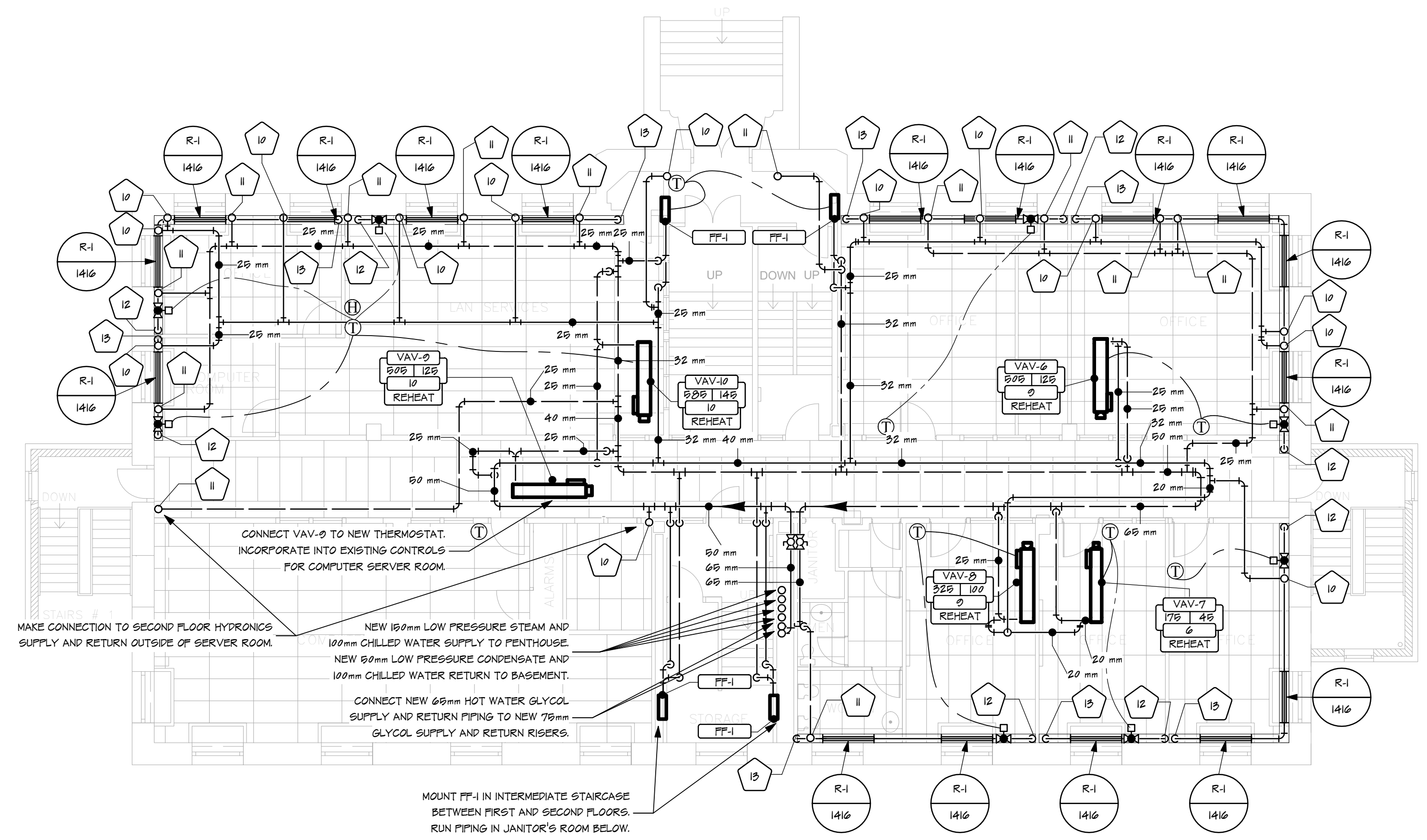
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 checked by: RJE  
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NOTE	DESCRIPTION
10	NEW 28MM HYDRONIC SUPPLY PIPING TO FLOOR ABOVE.
11	NEW 28MM HYDRONIC RETURN PIPING FROM FLOOR ABOVE.
12	NEW 28MM HYDRONIC SUPPLY PIPING FROM FLOOR BELOW.
13	NEW 28MM HYDRONIC RETURN PIPING FROM FLOOR BELOW.
14	PROVIDE FURRING AROUND PIPE PROPPING FROM CEILING - SEE ARCHITECTURAL DRAWINGS FOR DETAILS.

CONNECT VAV-9 TO NEW THERMOSTAT. INCORPORATE INTO EXISTING CONTROLS FOR COMPUTER SERVER ROOM.

MAKE CONNECTION TO SECOND FLOOR HYDRONICS SUPPLY AND RETURN OUTSIDE OF SERVER ROOM.

NEW 150mm LOW PRESSURE STEAM AND 100mm CHILLED WATER SUPPLY TO PENTHOUSE. NEW 50mm LOW PRESSURE CONDENSATE AND 100mm CHILLED WATER RETURN TO BASEMENT.

CONNECT NEW 60mm HOT WATER GLYCOL SUPPLY AND RETURN PIPING TO NEW 75mm GLYCOL SUPPLY AND RETURN RISERS.

MOUNT FF-1 IN INTERMEDIATE STAIRCASE BETWEEN FIRST AND SECOND FLOORS. RUN PIPING IN JANITOR'S ROOM BELOW.

2 NEW MAIN FLOOR HYDRONICS  
 M51 1:100



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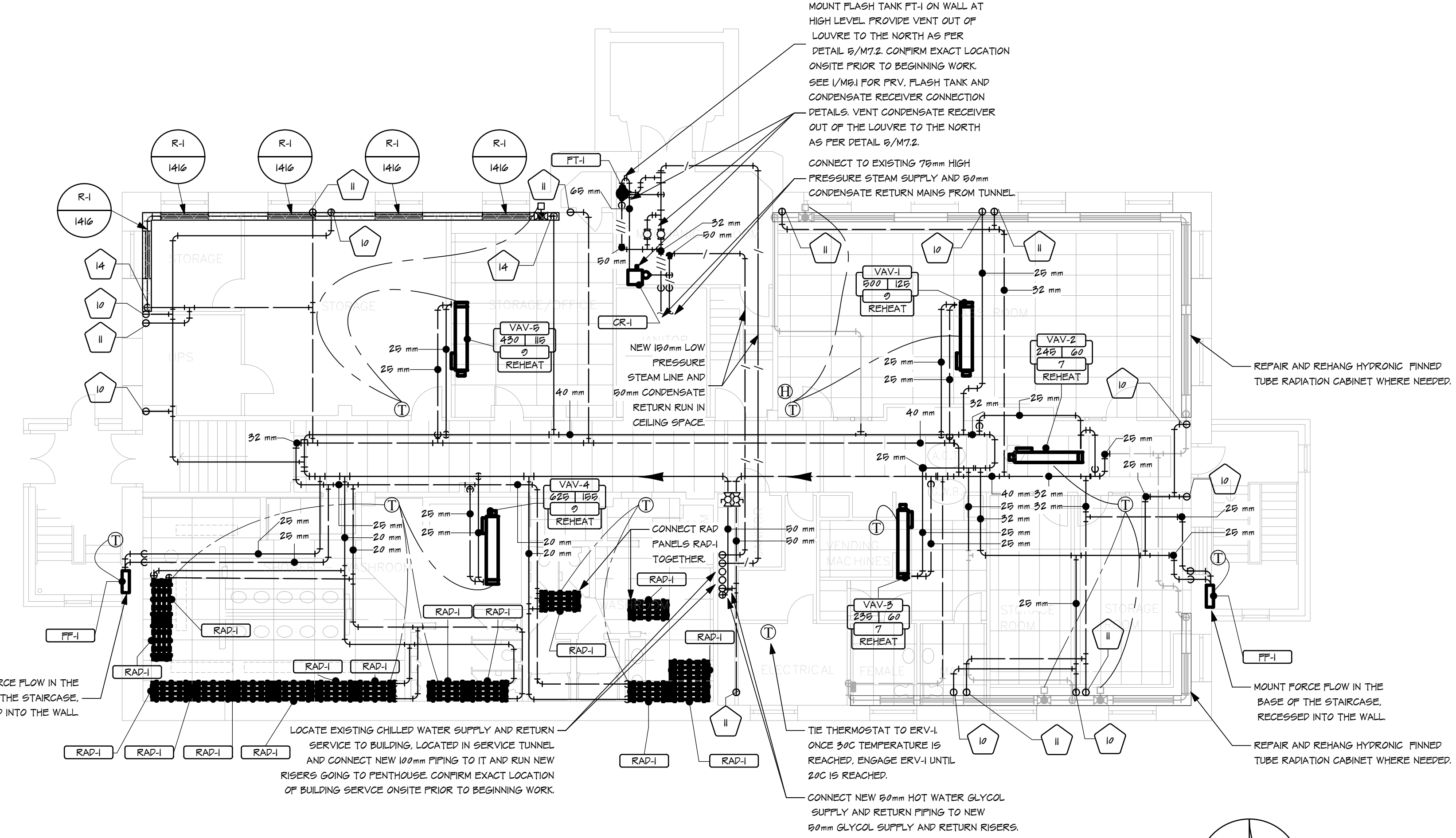
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sheet title NEW HEATING - BASEMENT AND MAIN FLOOR

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MOUNT FLASH TANK FT-1 ON WALL AT HIGH LEVEL. PROVIDE VENT OUT OF LOUVER TO THE NORTH AS PER DETAIL 5/M72. CONFIRM EXACT LOCATION ON SITE PRIOR TO BEGINNING WORK. SEE 1/M51 FOR FRESH FLASH TANK AND CONDENSATE RECEIVER CONNECTION.

DETAILS VENT CONDENSATE RECEIVER OUT OF THE LOUVER TO THE NORTH AS PER DETAIL 5/M72.

CONNECT TO EXISTING 75mm HIGH PRESSURE STEAM SUPPLY AND 80mm CONDENSATE RETURN MAINS FROM TUNNEL.

MOUNT FORCE FLOW IN THE BASE OF THE STAIRCASE. RECESSED INTO THE WALL.

LOCATE EXISTING CHILLED WATER SUPPLY AND RETURN SERVICE TO BUILDING, LOCATED IN SERVICE TUNNEL AND CONNECT NEW 100mm PIPING TO IT AND RUN NEW RISERS GOING TO PENTHOUSE. CONFIRM EXACT LOCATION OF BUILDING SERVICE ON SITE PRIOR TO BEGINNING WORK.

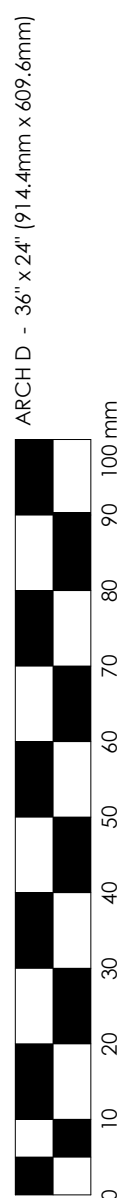
CONNECT RAD PANELS RAD-1 TOGETHER.

TIE THERMOSTAT TO ERV-1 ONCE 20C TEMPERATURE IS REACHED. ENGAGE ERV-1 UNTIL 20C IS REACHED.

CONNECT NEW 80mm HOT WATER GLYCOL SUPPLY AND RETURN PIPING TO NEW 80mm GLYCOL SUPPLY AND RETURN RISERS.

1 NEW BASEMENT HYDRONICS  
 M51 1:100

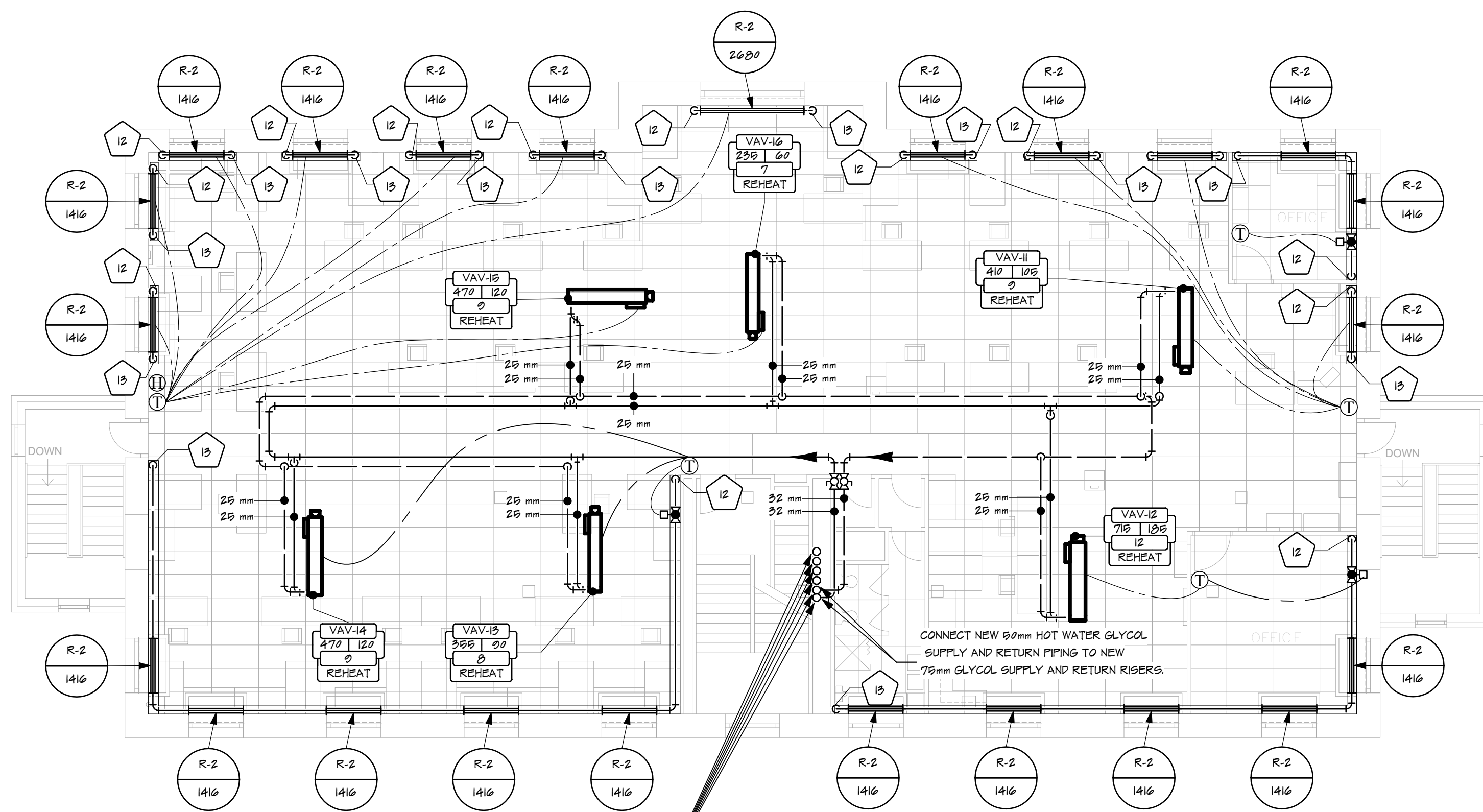
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KEYNOTE LEGEND	
	NOTE
NOTE	DESCRIPTION
12	NEW 25MM HYDRONIC SUPPLY PIPING FROM FLOOR BELOW.
13	NEW 25MM HYDRONIC RETURN PIPING TO FLOOR BELOW.

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NEW 100mm LOW PRESSURE STEAM, 100mm CHILLED WATER SUPPLY AND 75mm HOT WATER GLYCOL RETURN TO PENTHOUSE. NEW 80mm LOW PRESSURE CONDENSATE, 100mm CHILLED WATER RETURN, AND 75mm HOT WATER GLYCOL SUPPLY TO BASEMENT.

CONNECT NEW 80mm HOT WATER GLYCOL SUPPLY AND RETURN PIPING TO NEW 75mm GLYCOL SUPPLY AND RETURN RISERS.



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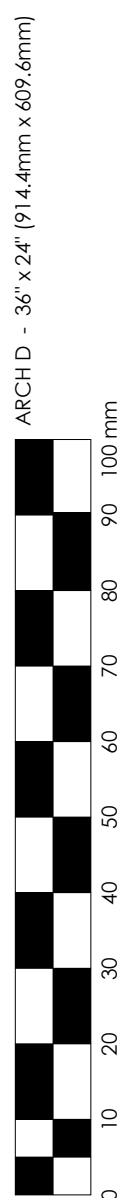
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project  
 NEW HEATING - SECOND FLOOR

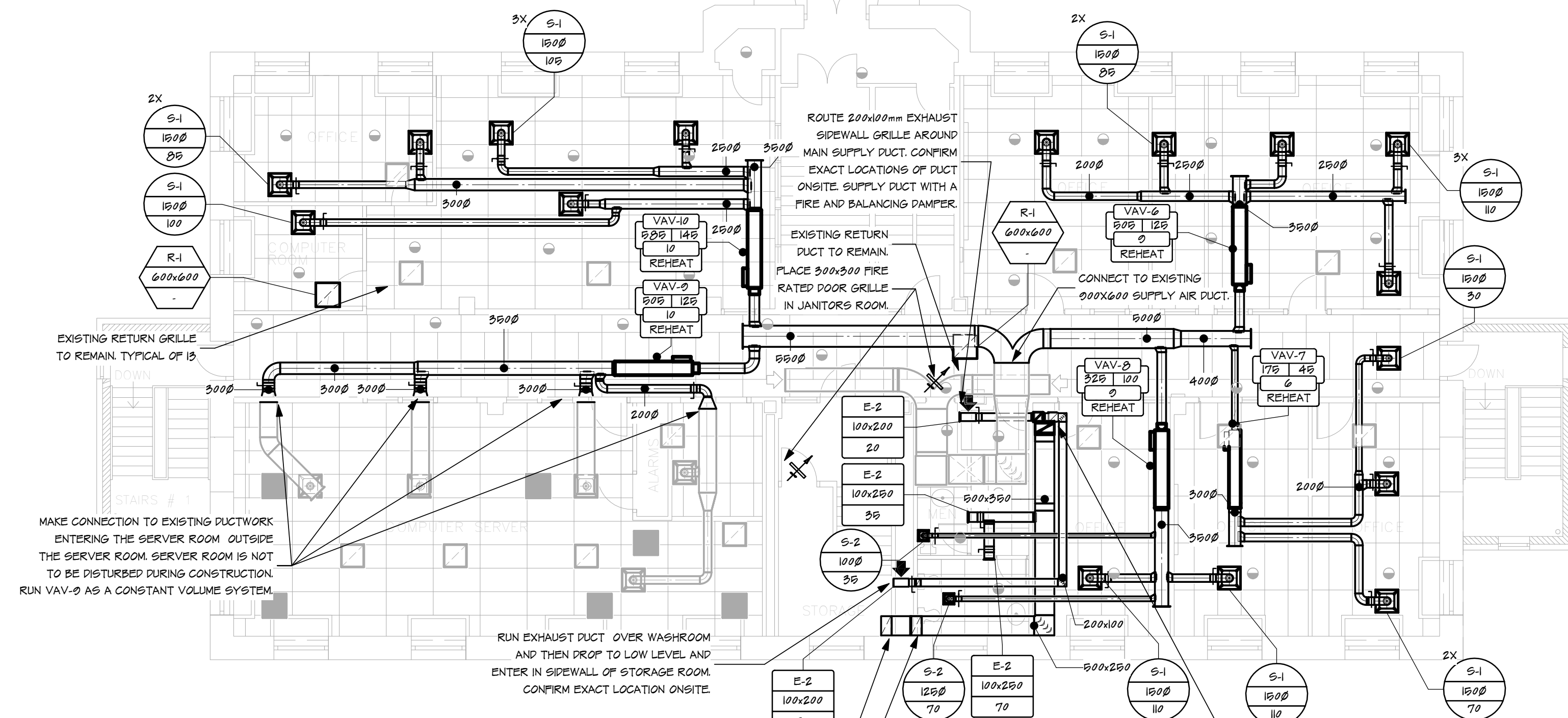
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 seal  
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 checked by: RJE  
 project no.: 2016008  
 scale: AS INDICATED  
 date: 2016.04.15  
 sheet no.: **M3.2**  
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**NEW MAIN FLOOR HVAC**  
 1:100



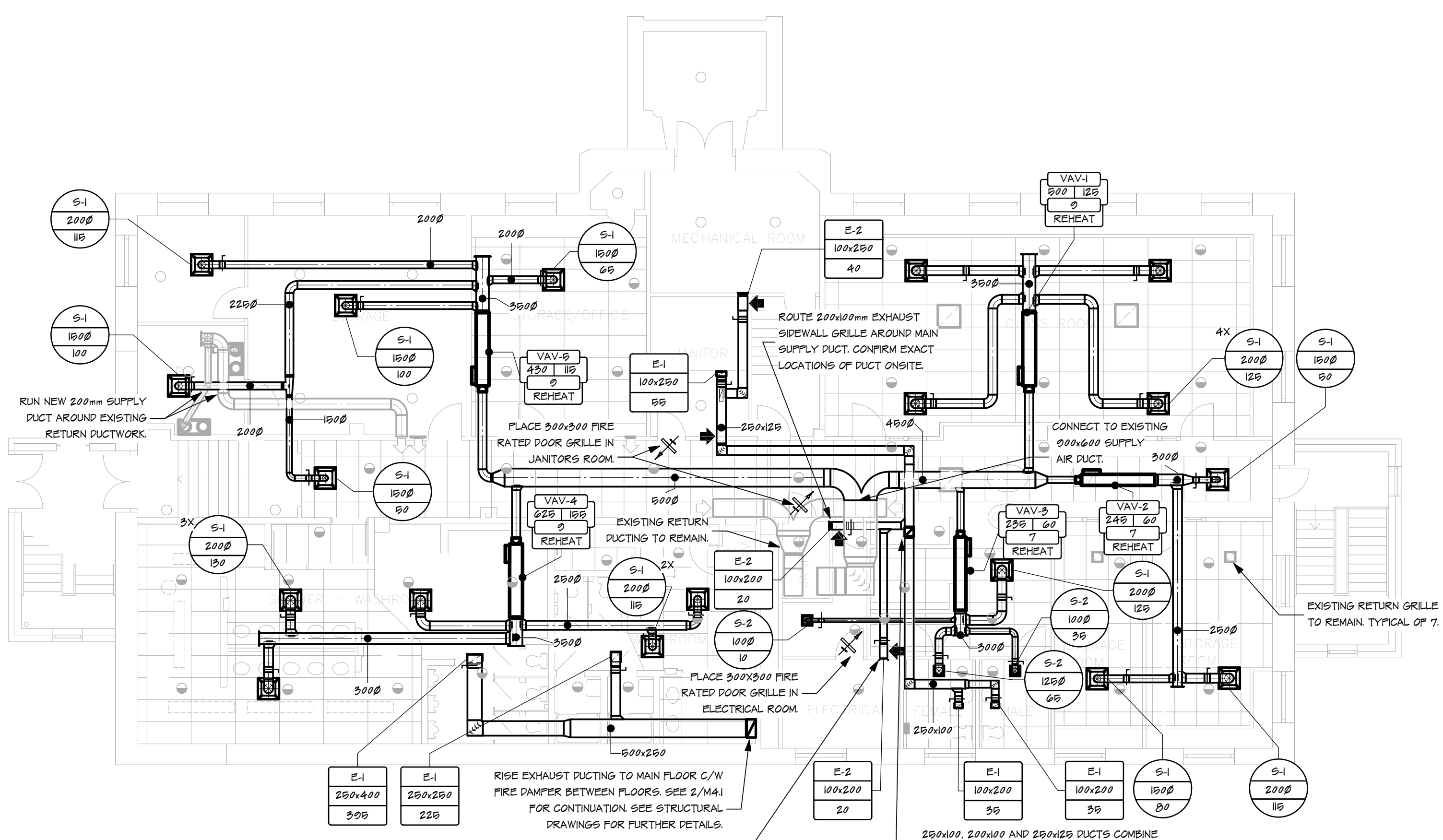
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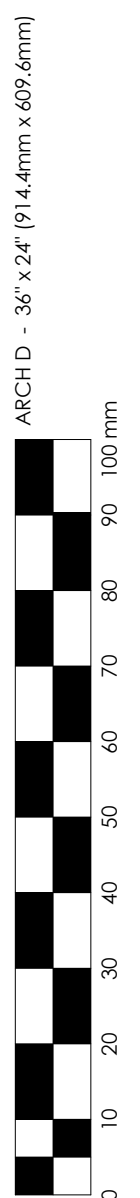
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NEW VENTILATION - BASEMENT AND MAIN FLOOR

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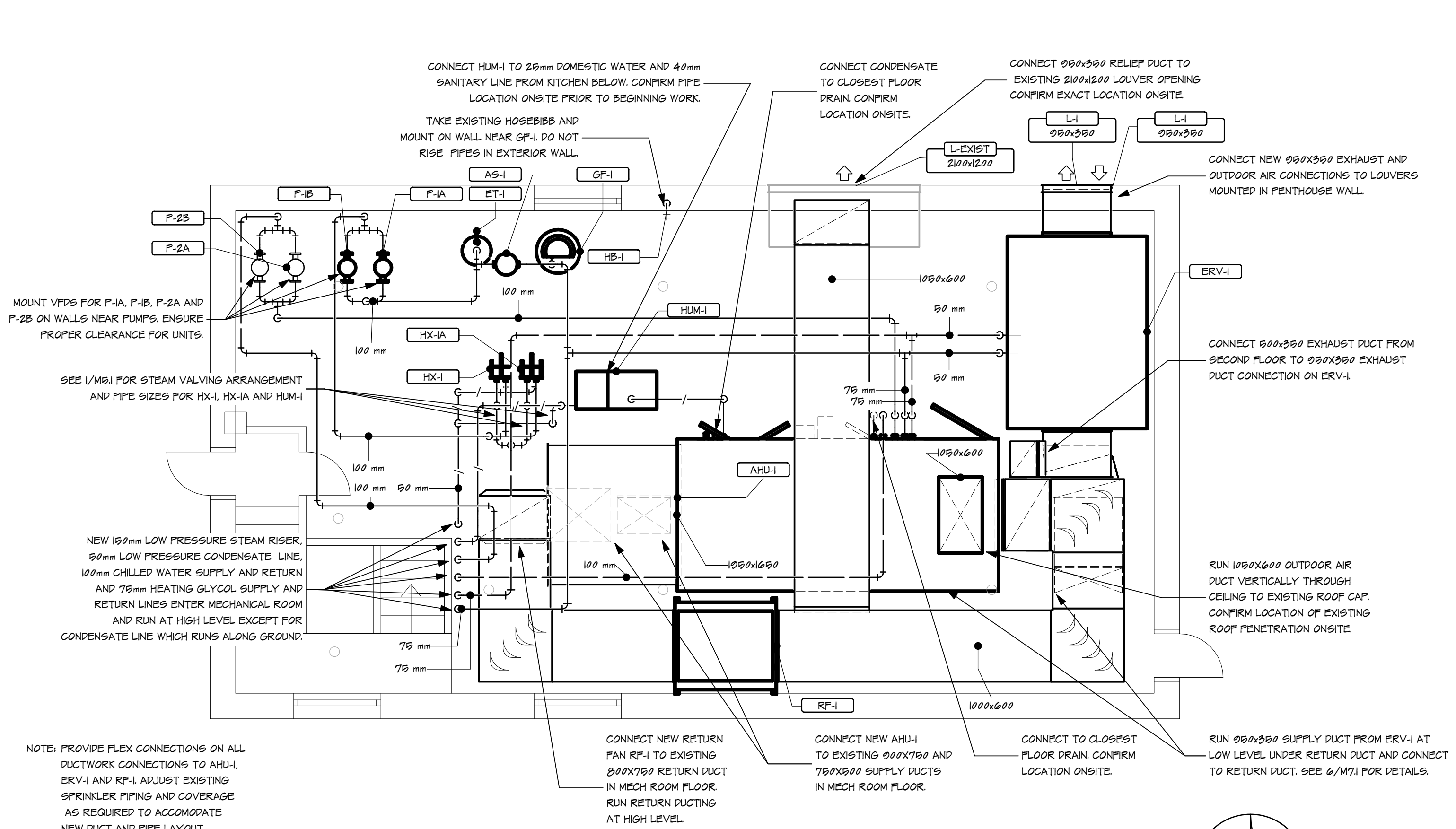
**NEW BASEMENT HVAC**  
 1:100



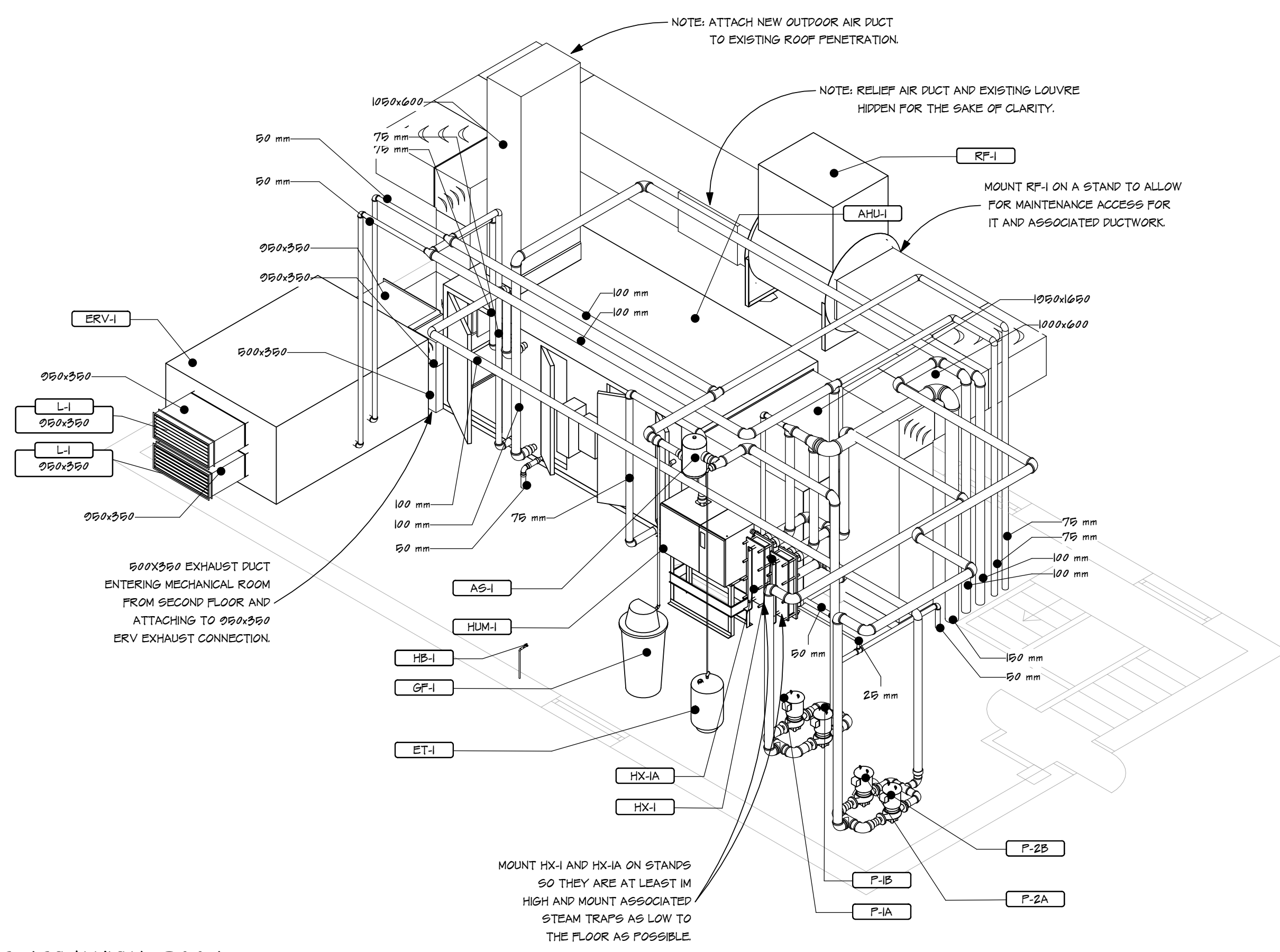
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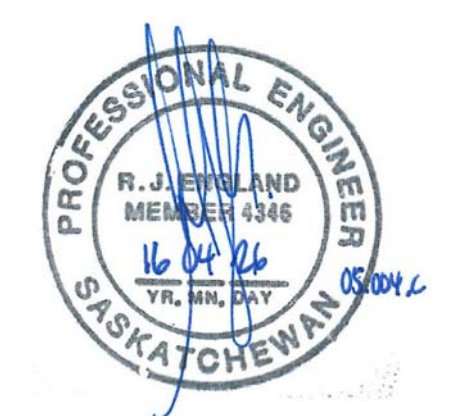
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2 NEW PENTHOUSE MECHANICAL ROOM  
 1:50



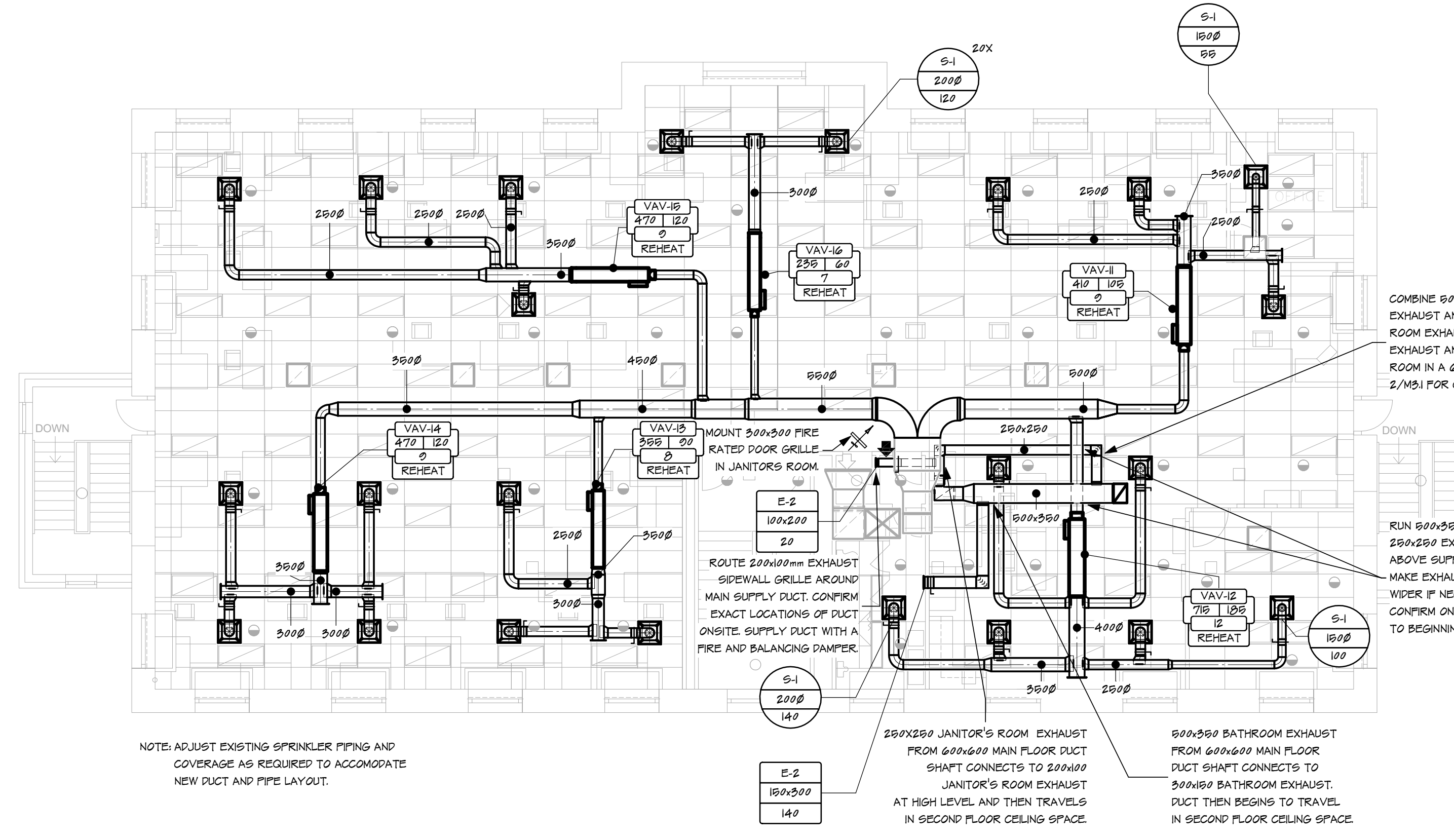
3 PENTHOUSE ISOMETRIC VIEW  
 NOT TO SCALE



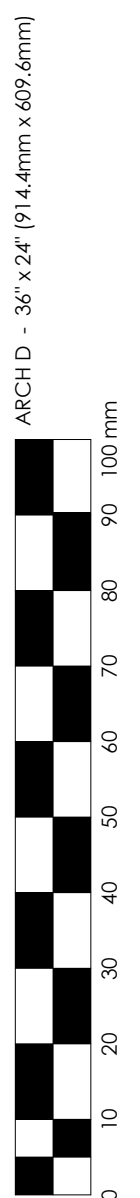
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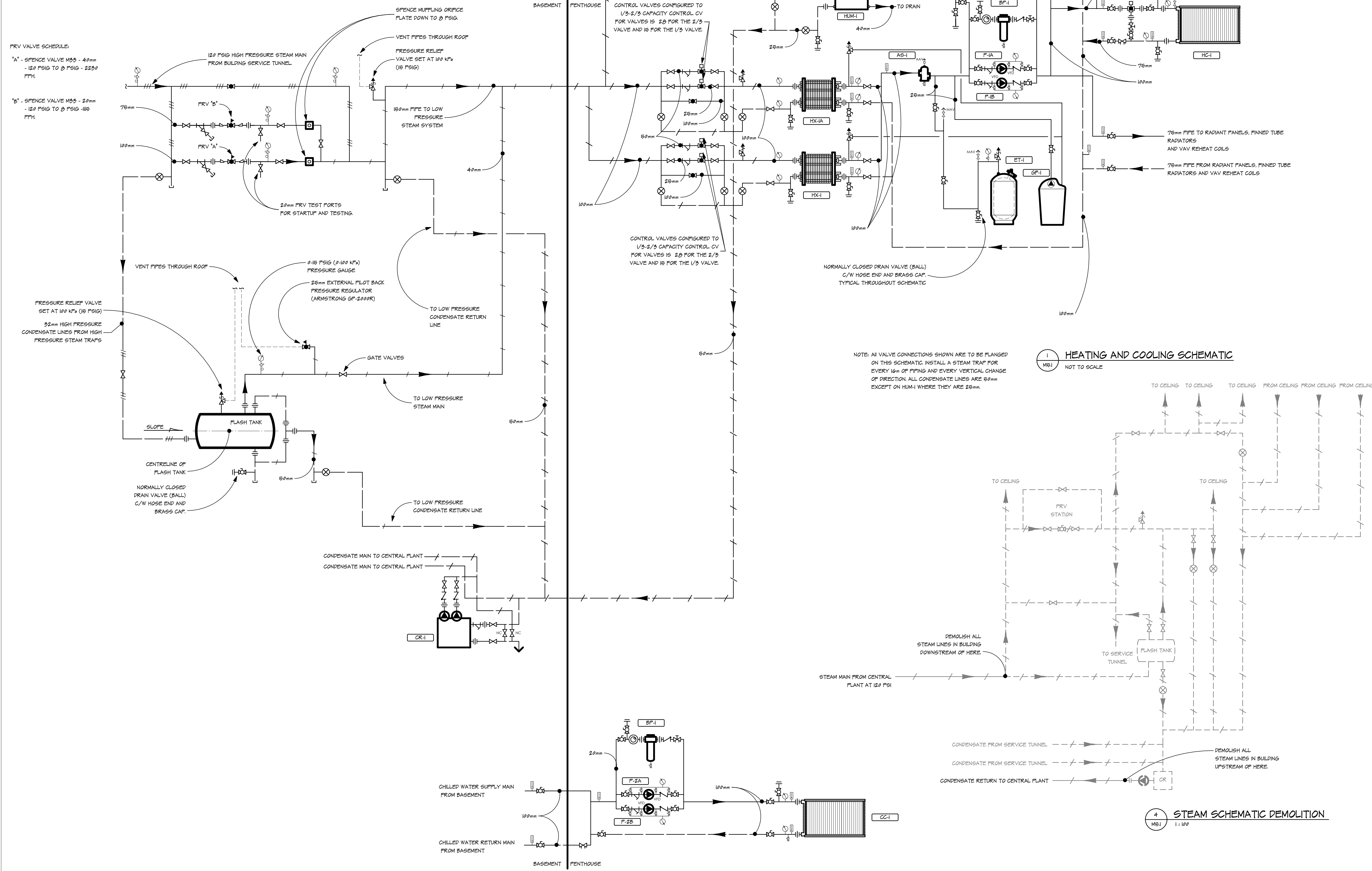
1 NEW SECOND FLOOR HVAC  
 1:100



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 'A' - SPENCE VALVE M35 - 40mm  
 - 120 PSIG TO 0 PSIG - 2250 FFH  
 'B' - SPENCE VALVE M35 - 20mm  
 - 120 PSIG TO 0 PSIG - 1100 FFH



1 HEATING AND COOLING SCHEMATIC  
 M51 NOT TO SCALE

4 STEAM SCHEMATIC DEMOLITION  
 M51 1:100



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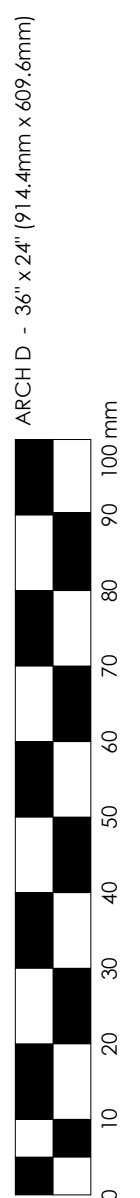
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HEATING, COOLING AND STEAM SCHEMATICS

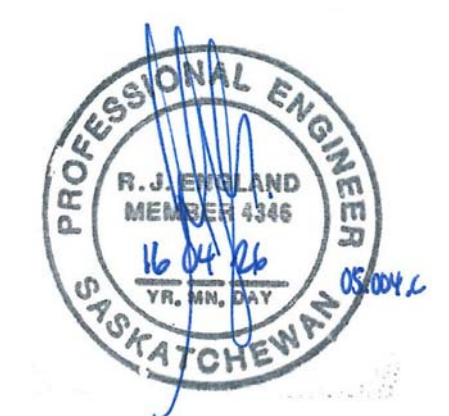
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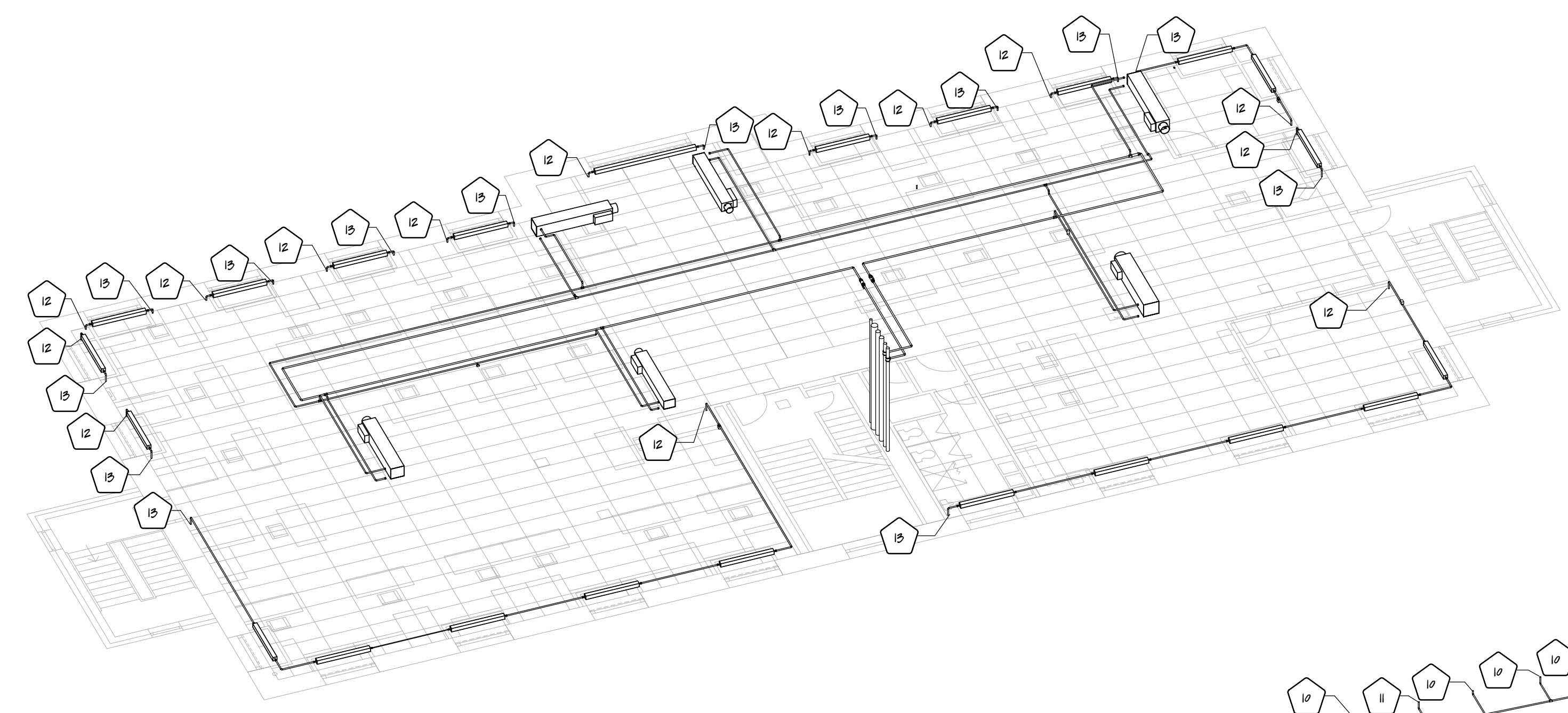
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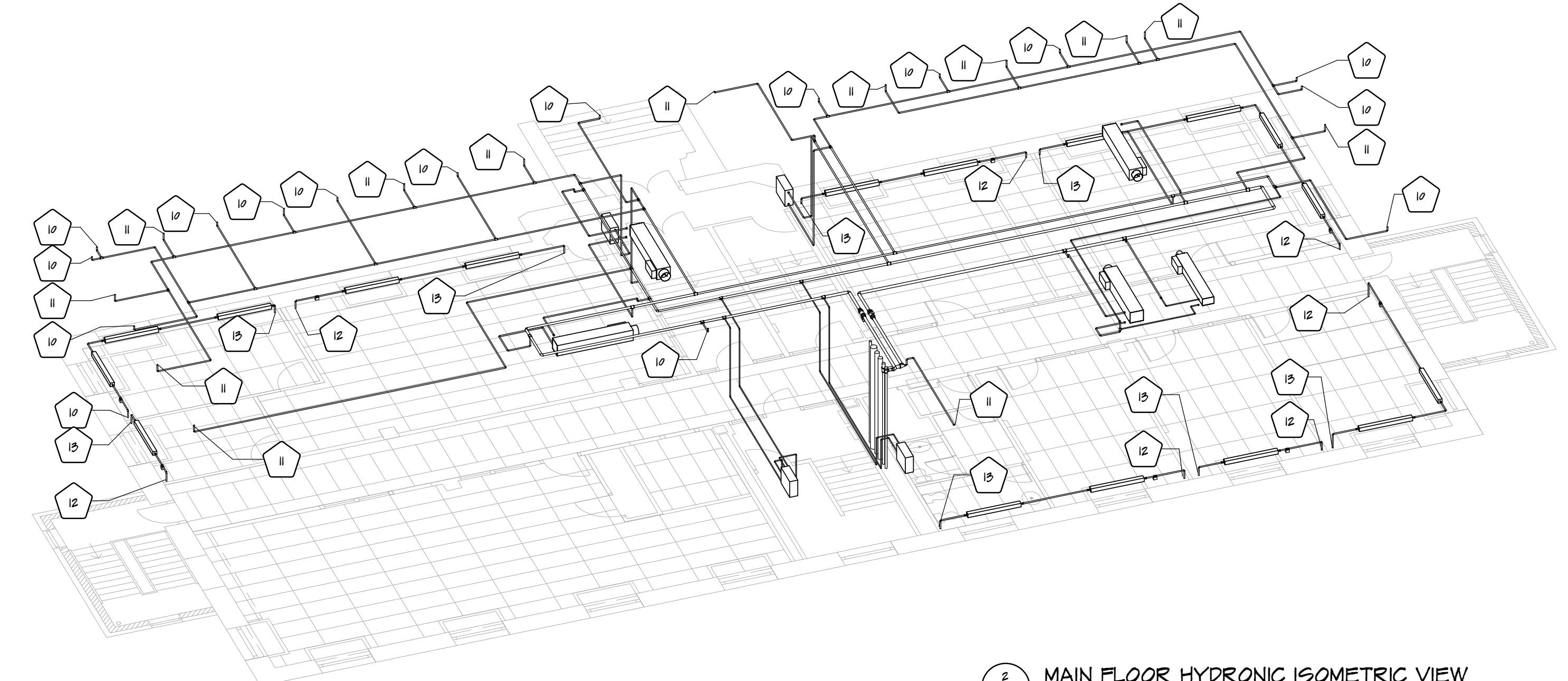
HYDRONIC ISOMETRIC VIEWS

sheet title  
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 RJE Project No. 08.004.C  
 consultant

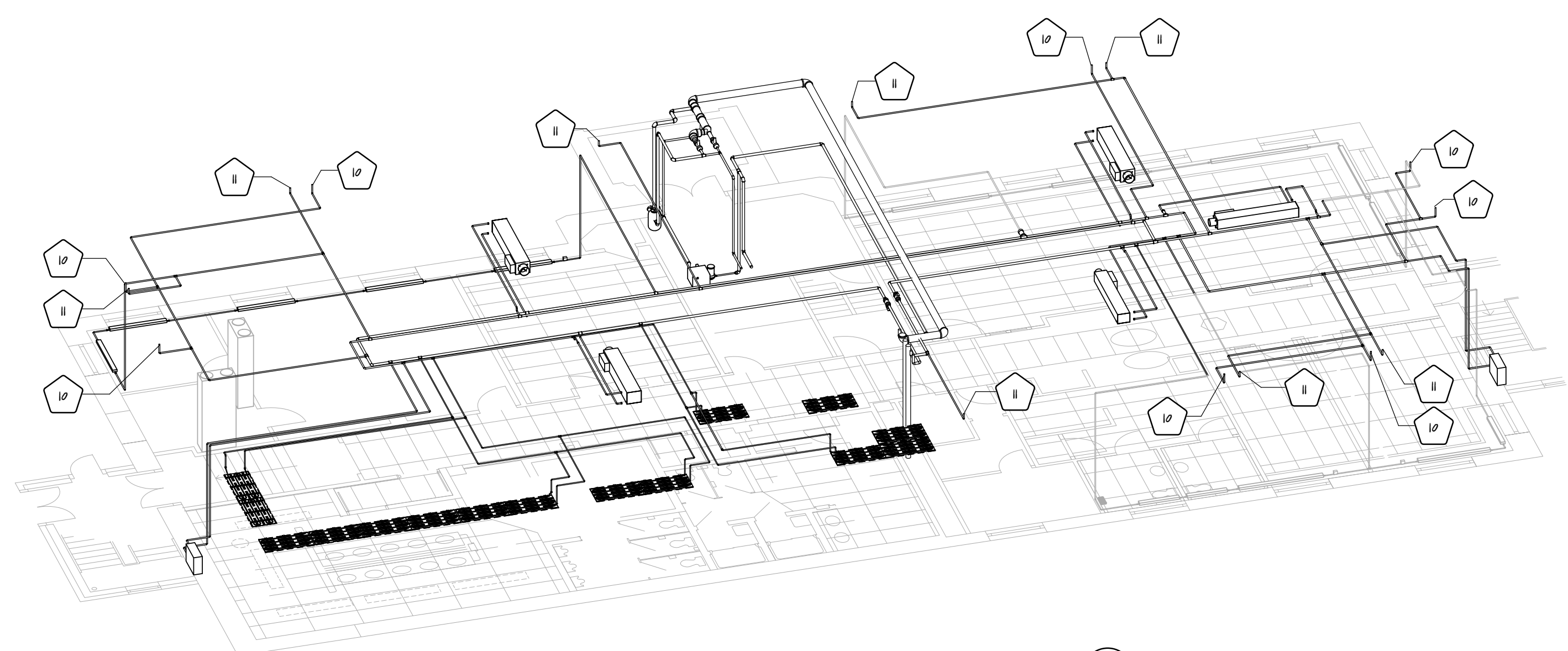
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 drawn by: CJB  
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 sheet no. **M6.1**  
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3 SECOND FLOOR HYDRONIC ISOMETRIC VIEW  
 M6.1

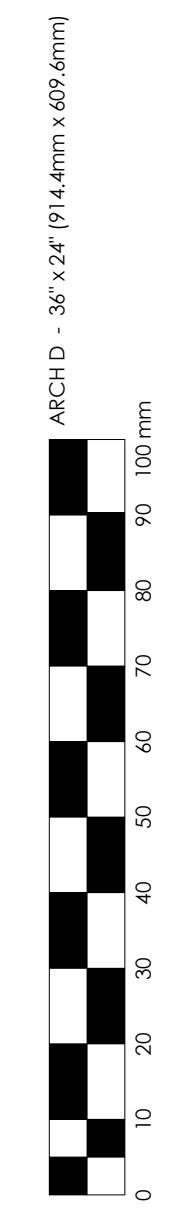


2 MAIN FLOOR HYDRONIC ISOMETRIC VIEW  
 M6.1



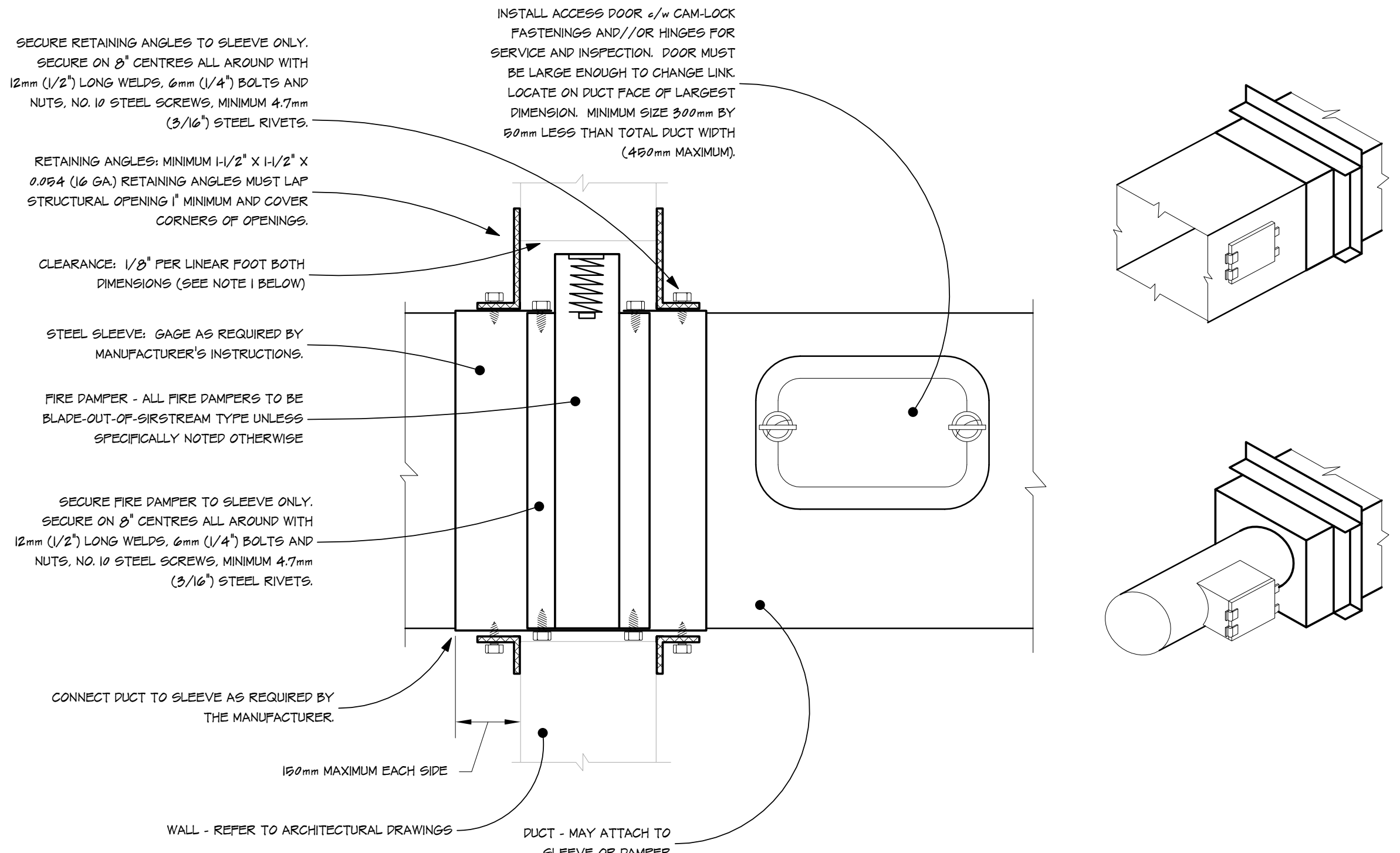
1 BASEMENT FLOOR HYDRONIC ISOMETRIC VIEW  
 M6.1

KEYNOTE LEGEND	
NOTE	DESCRIPTION
10	NEW 25MM HYDRONIC SUPPLY PIPING TO FLOOR ABOVE.
11	NEW 25MM HYDRONIC RETURN PIPING FROM FLOOR ABOVE.
12	NEW 25MM HYDRONIC SUPPLY PIPING FROM FLOOR BELOW.
13	NEW 25MM HYDRONIC RETURN PIPING TO FLOOR BELOW.



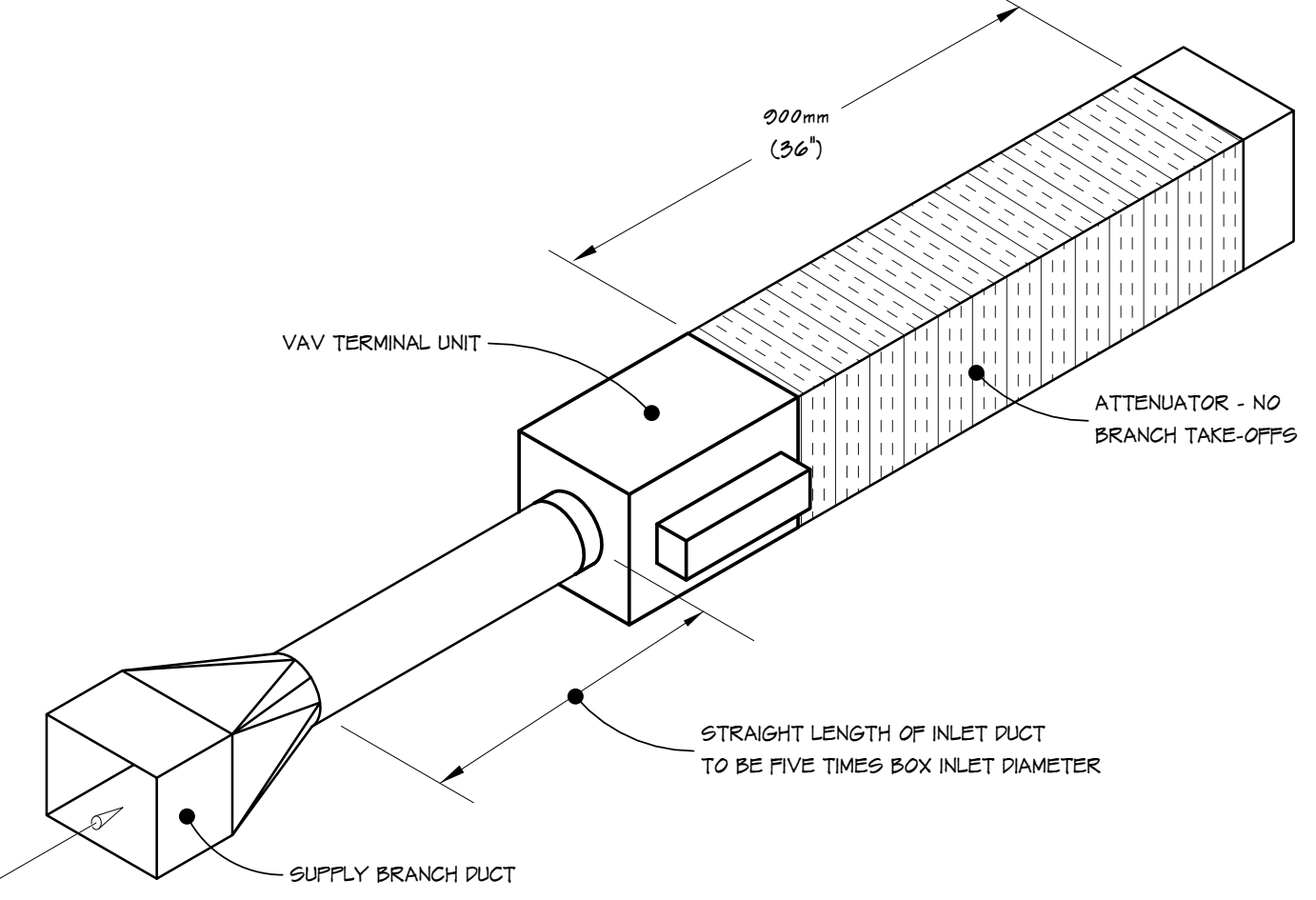
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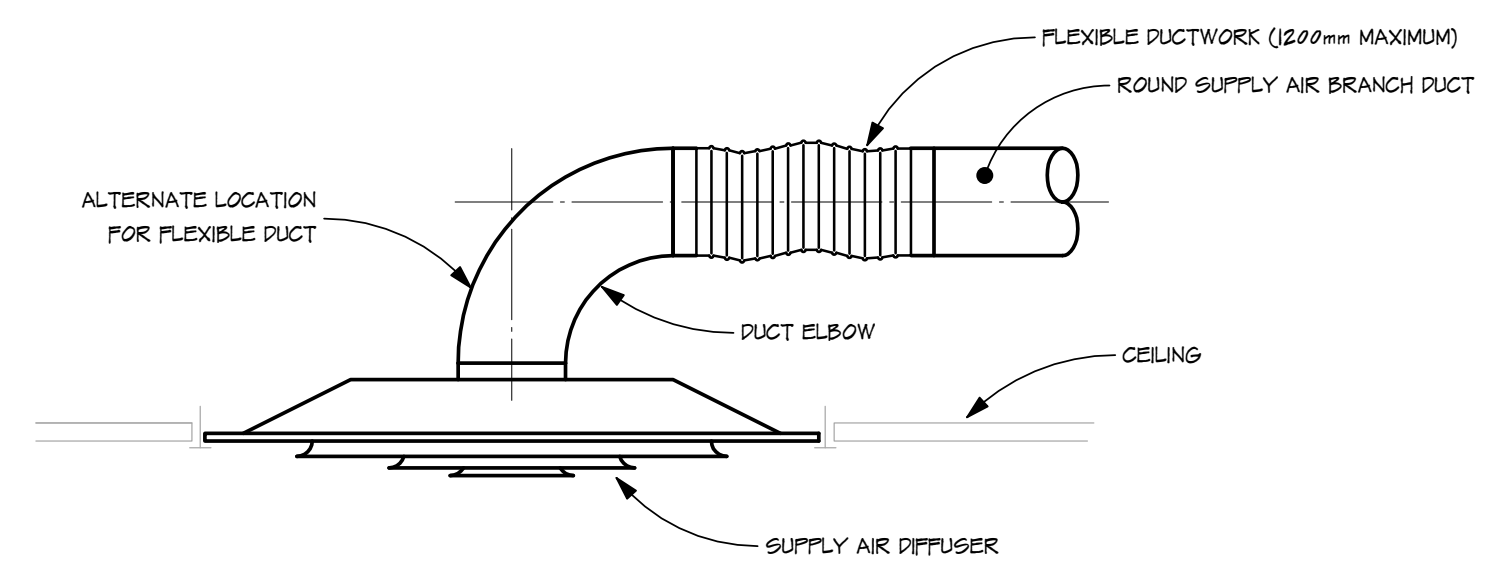


- NOTES:
- POSITION OF FIRE DAMPER**  
 VERTICAL POSITION IS SHOWN. HORIZONTAL INSTALLATION IS SIMILAR EXCEPT WITH SPINGS. FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR FUSIBLE LINKS.
  - CAULKING**  
 NO CAULKING IS REQUIRED ON FIRE DAMPERS OR FIRE DAMPER RETAINING ANGLES.
  - FIRE DAMPER SLEEVE CLEARANCE WITHIN WALL OPENING**  
 CLEARANCE REQUIREMENTS FOR DAMPER SLEEVES WITHIN A WALL OPENING IS BASED ON 1/8" INCH PER FOOT OF WIDTH (OR HEIGHT) UNLESS OTHERWISE STATED IN THE MANUFACTURER'S LISTING OF THE ASSEMBLY. THE SLEEVE MAY REST ON THE BOTTOM OF THE OPENING, AND NEED NOT BE CENTRED. (FRACTIONAL DIMENSIONS SHALL BE TAKEN AS THE NEXT LARGEST WHOLE FOOT).  
 FOR EXAMPLE: A 3/8" INCH X 2 1/4" INCH FIRE DAMPER SLEEVE IS INSTALLED IN A WALL OPENING. THE OPENING SHALL BE 3/8" X 3/8" INCHES WIDE (1/8" INCH X 3 FEET) BY 2 1/2" INCHES HIGH (1/8" INCH X 2 FEET).  
 THE SLEEVE IS RETAINED IN THE WALL OPENING BY THE USE OF STEEL RETAINING ANGLES. THESE MUST OVER-LAP THE EDGE OF THE FRAMING BY A MINIMUM OF 29mm (1") BEYOND ALL MATERIAL IN THE OPENING. THE MINIMUM WIDTH OF THE RETAINING ANGLE WOULD BE 1 1/8" INCHES IN THE ABOVE EXAMPLE).  
 THE DIMENSIONS REQUIRED FOR THE OPENING SHALL BE THOSE REMAINING AFTER THE OPENING HAS BEEN FRAMED AND FIRE RESISTIVE MATERIALS PROVIDED WHERE REQUIRED. THE FIRE RESISTIVE MATERIALS SHALL BE EQUAL TO THE REQUIREMENTS FOR FIRE RESISTIVE MATERIALS USED IN THE CONSTRUCTED WALL SO THAT A CONTINUOUS RATING EXISTS AT THE WALL PENETRATION.
  - MANUFACTURER'S INSTALLATION DETAILS**  
 THE FIRE DAMPER MANUFACTURER'S INSTALLATION DETAILS AND INSTRUCTIONS AS TESTED AND APPROVED BY UL MUST BE USED IN LIEU OF THE DETAILS NOTED HEREIN WHERE APPLICABLE. MAINTENANCE MANUAL TO INCLUDE A COPY OF THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

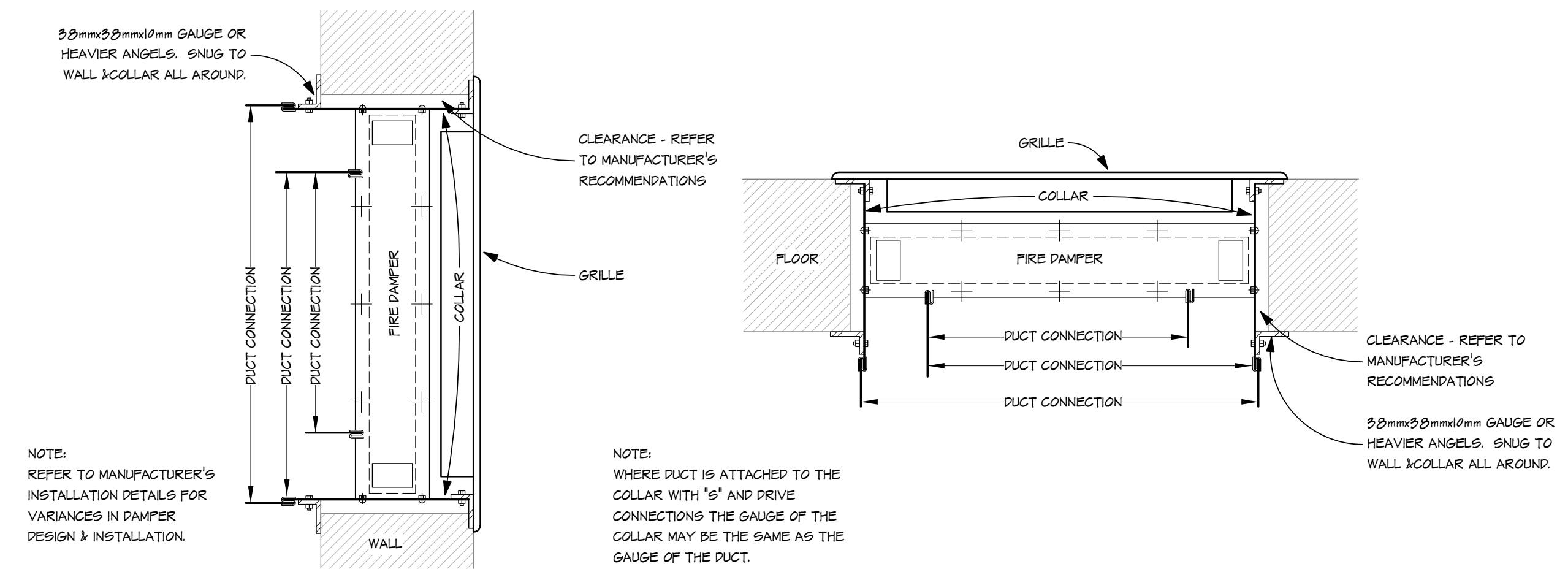
1 FIRE DAMPER DETAIL  
 M71 NOT TO SCALE



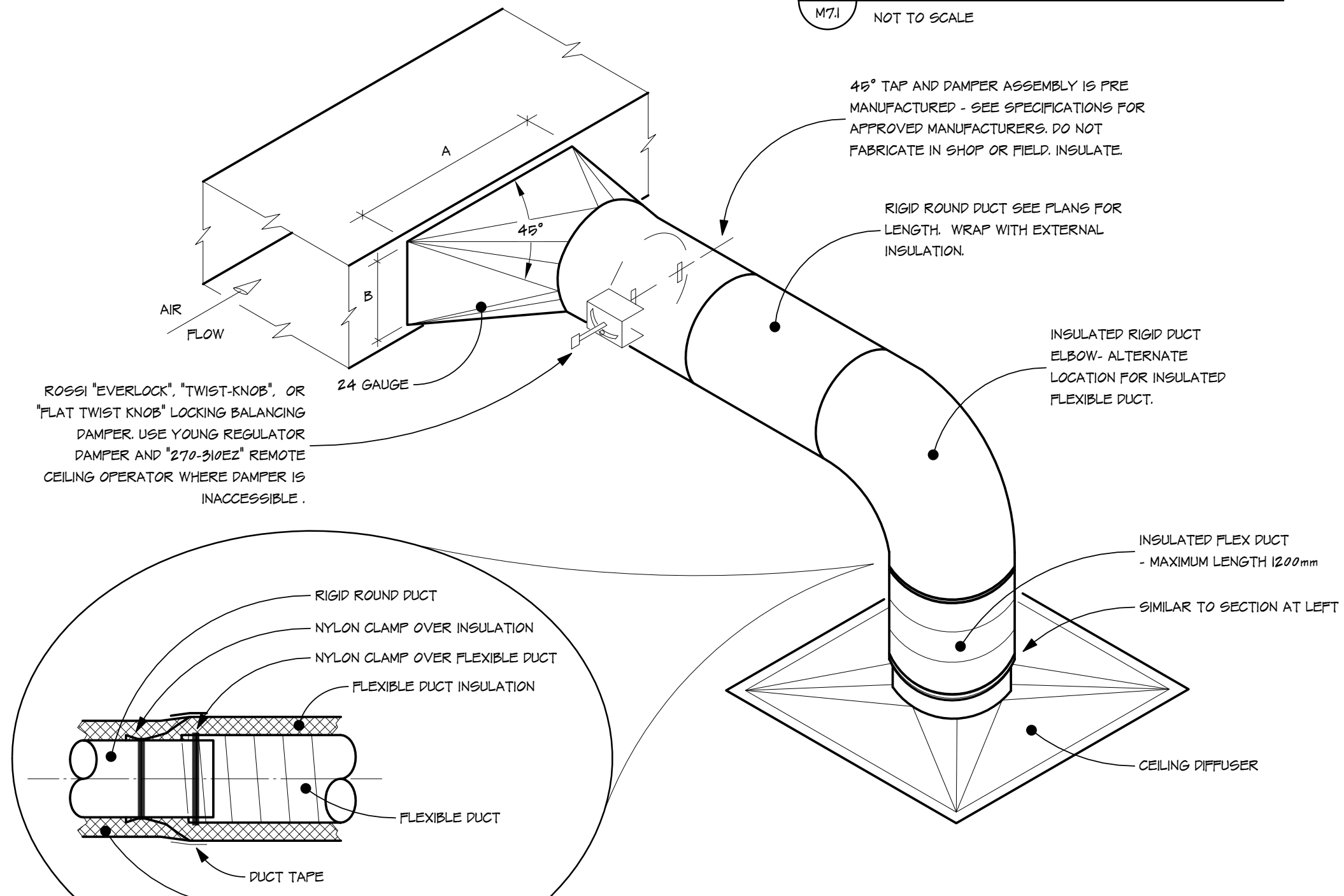
3 VAV BOX DETAIL  
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4 DIFFUSER CONNECTION DETAIL  
 M71 NOT TO SCALE

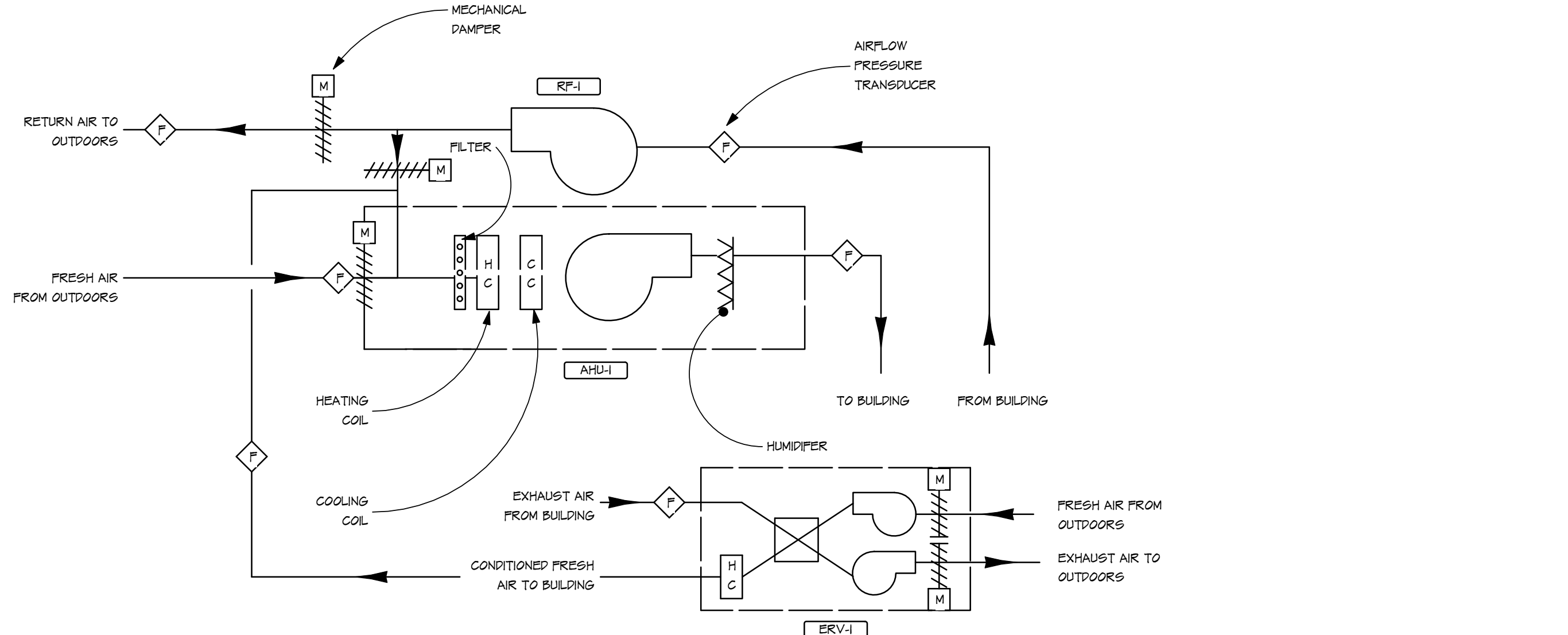


2 FIRE DAMPER IN GRILLE DETAIL  
 M71 NOT TO SCALE

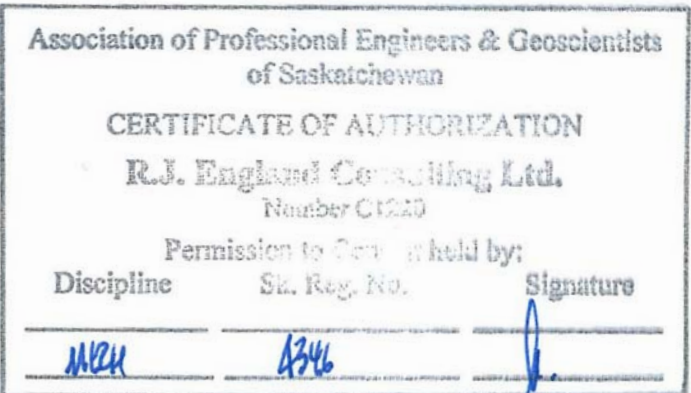


- NOTES:
- TAKE-OFFS SHOULD NOT BE INSTALLED CLOSER THAN TWO WIDTHS TO ELBOWS OR INTERSECTIONS
  - NOTE: AREA OF A X B SHALL BE EQUAL TO 1/2 X AREA BRANCH DUCT

3 BRANCH DIFFUSER CONNECTION DETAIL  
 M71 NOT TO SCALE



6 VENTILATION SCHEMATIC  
 M71 NOT TO SCALE



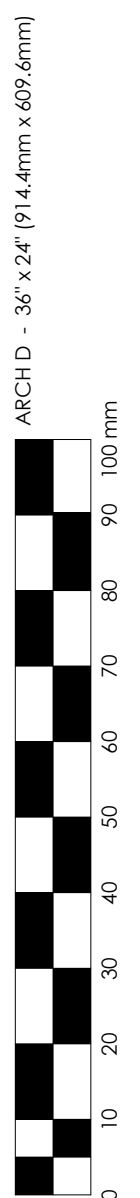
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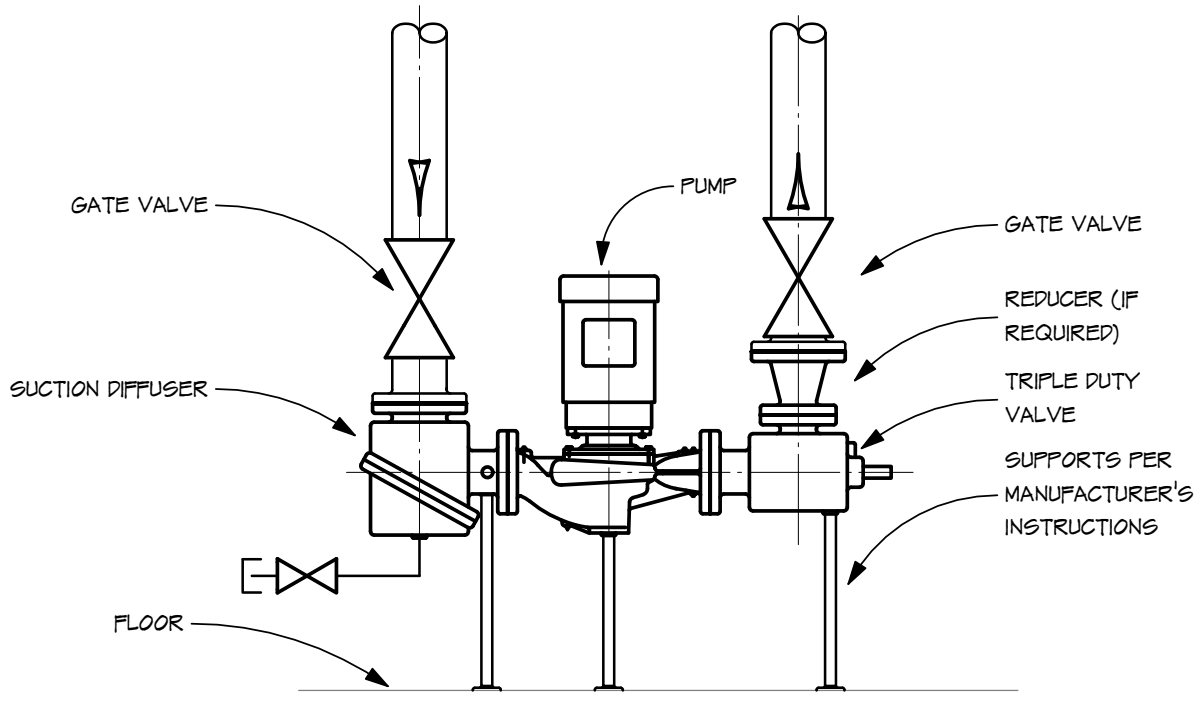
sheet title: VENTILATION DETAILS AND SCHEMATIC

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 RJE Project No. 08.004.C

consultant:  
 scale: AS INDICATED  
 date: 2016.04.15  
 drawn by: CJB  
 checked by: RJE  
 project no.: 2016008  
 sheet no.: M7.1  
 REV 1

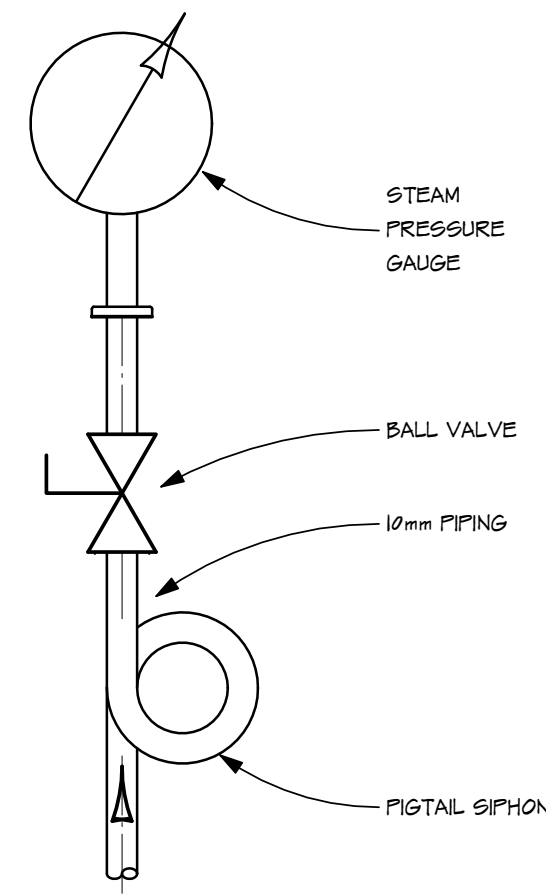




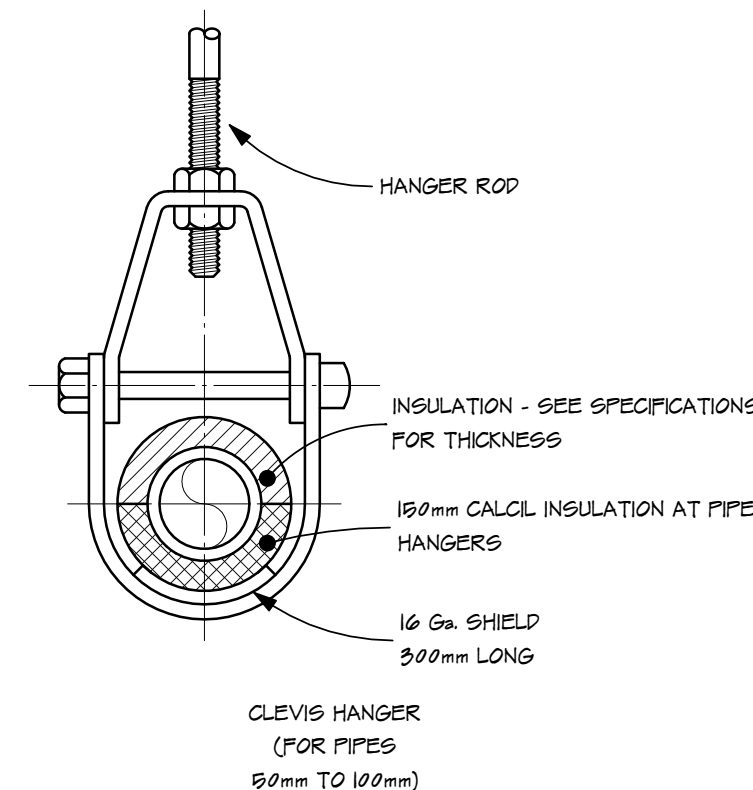


1 VERTICAL IN-LINE PUMP DETAIL  
M7.2 NOT TO SCALE

NOTE:  
EACH OF THE TWO VERTICAL PIPES TO HAVE A MINIMUM OF THREE VIBRA-COUPLES TO ACCOMMODATE VIBRATION ISOLATION.

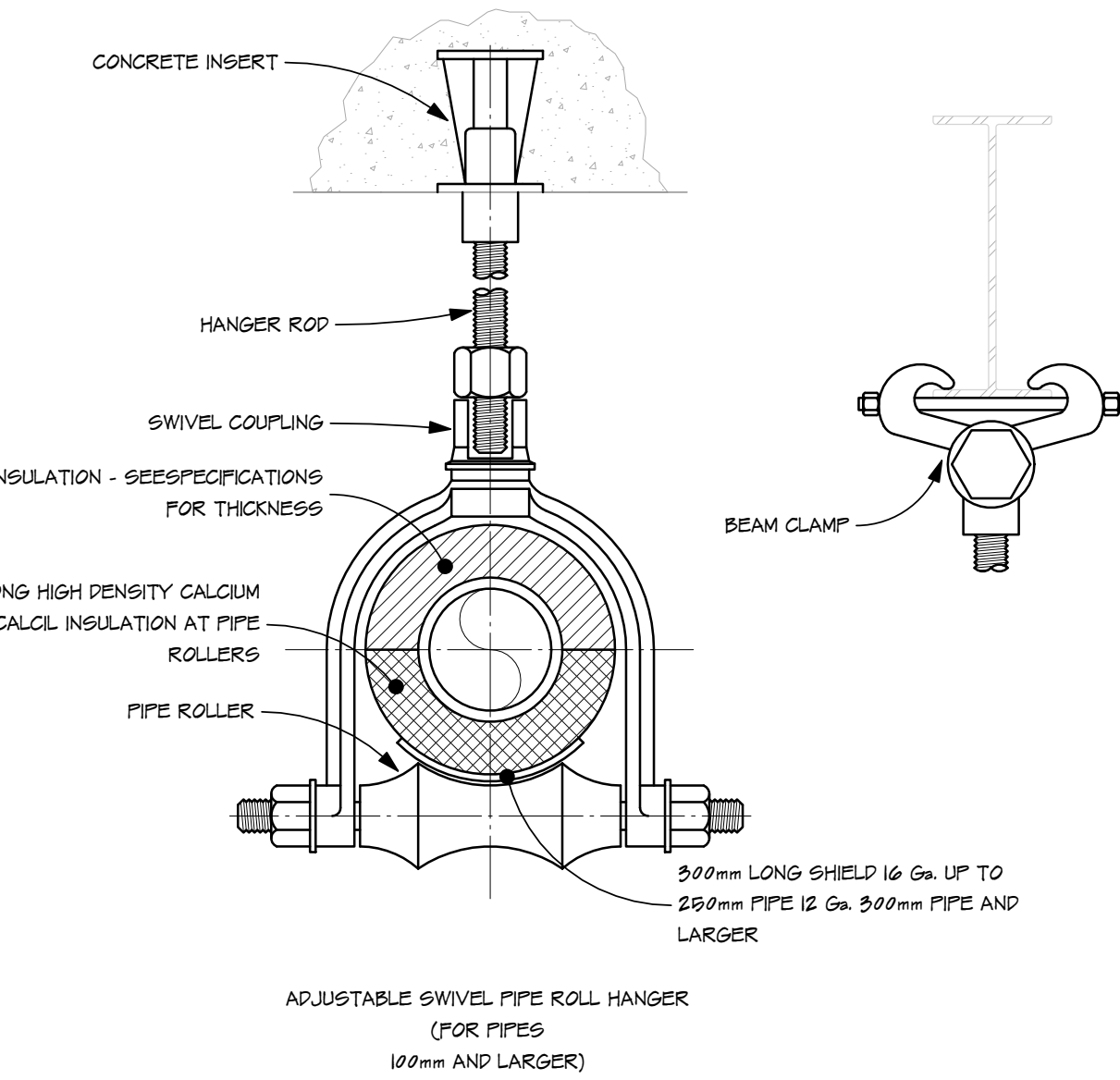


2 STEAM PRESSURE GAUGE DETAIL  
M7.2 NOT TO SCALE



3 PIPE HANGER DETAIL  
M7.2 NOT TO SCALE

- NOTES:
- HANGER AND SADDLE MATERIALS TO MATCH PIPE MATERIALS.
  - HANGER DIMENSIONS SHALL SUIT INSULATED PIPE SIZES TO ALLOW FREE MOVEMENT WITHOUT BINDING.



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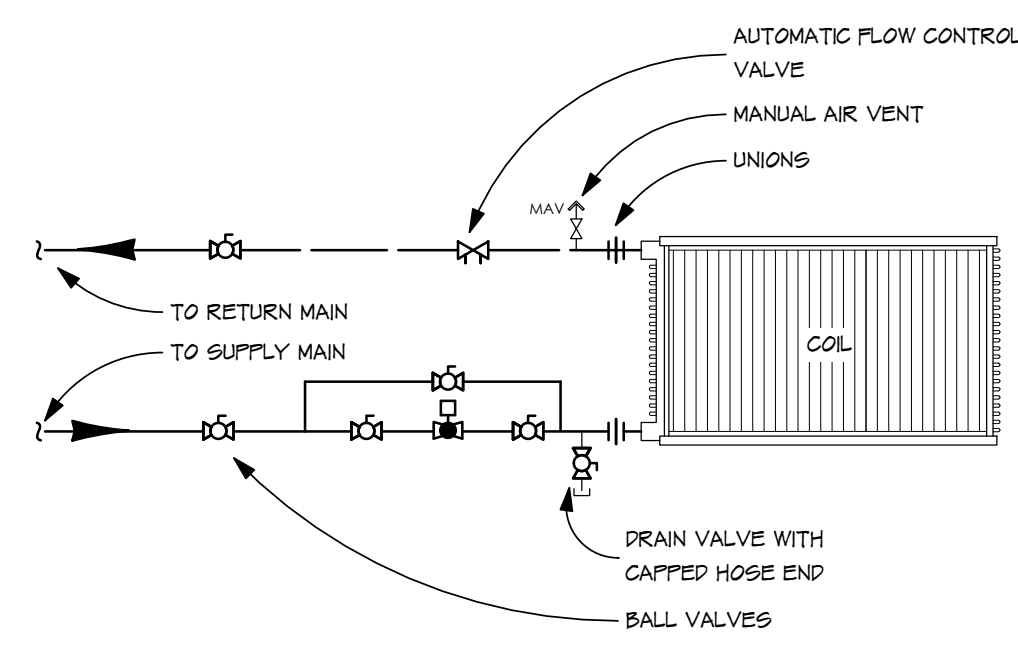
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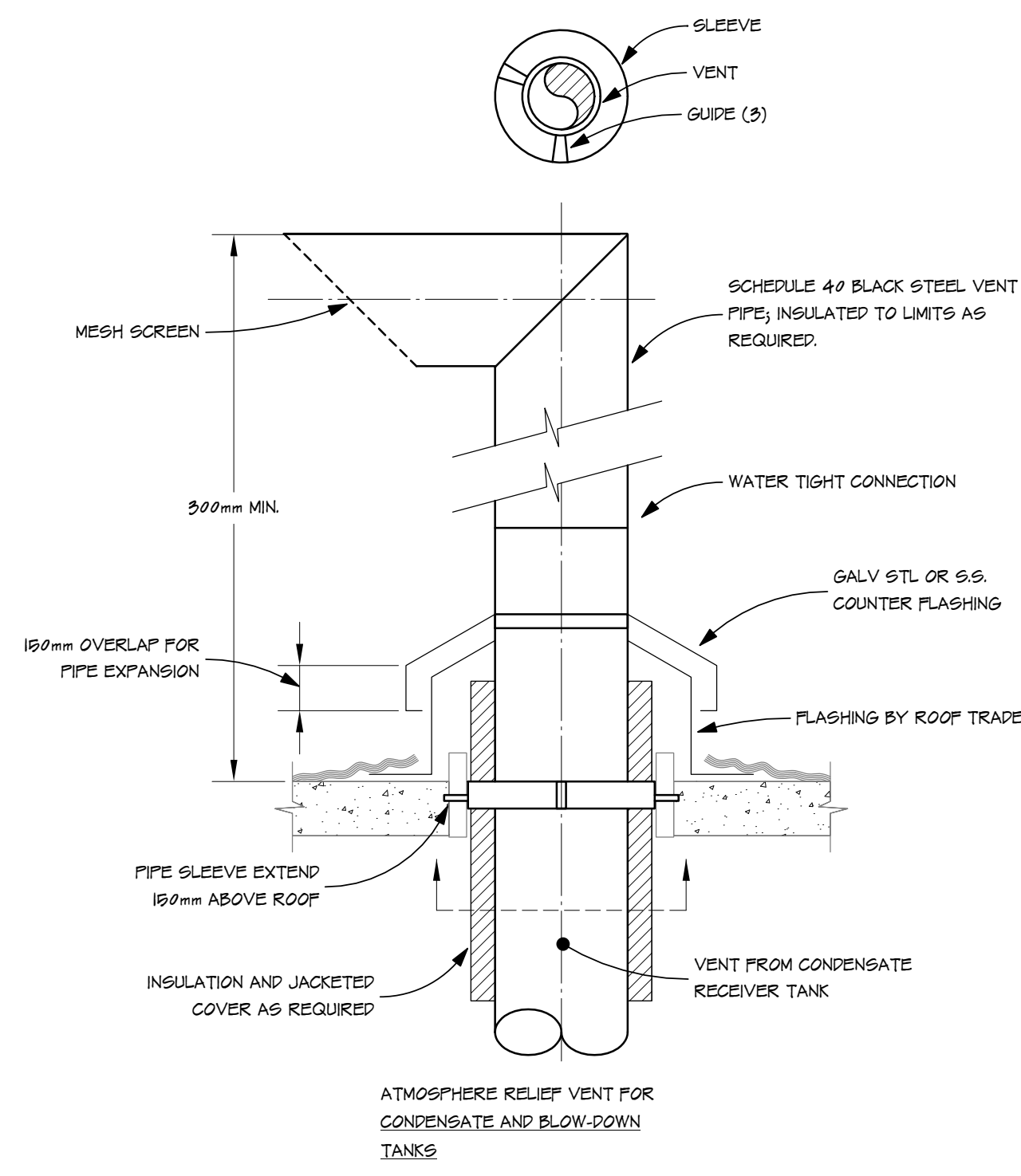
STEAM AND HYDRONIC DETAILS

sheet title  
R J ENGLAND CONSULTING LTD.  
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Telephone: 304.546.5280 Facsimile: 304.352.5280 info@rjengland.com

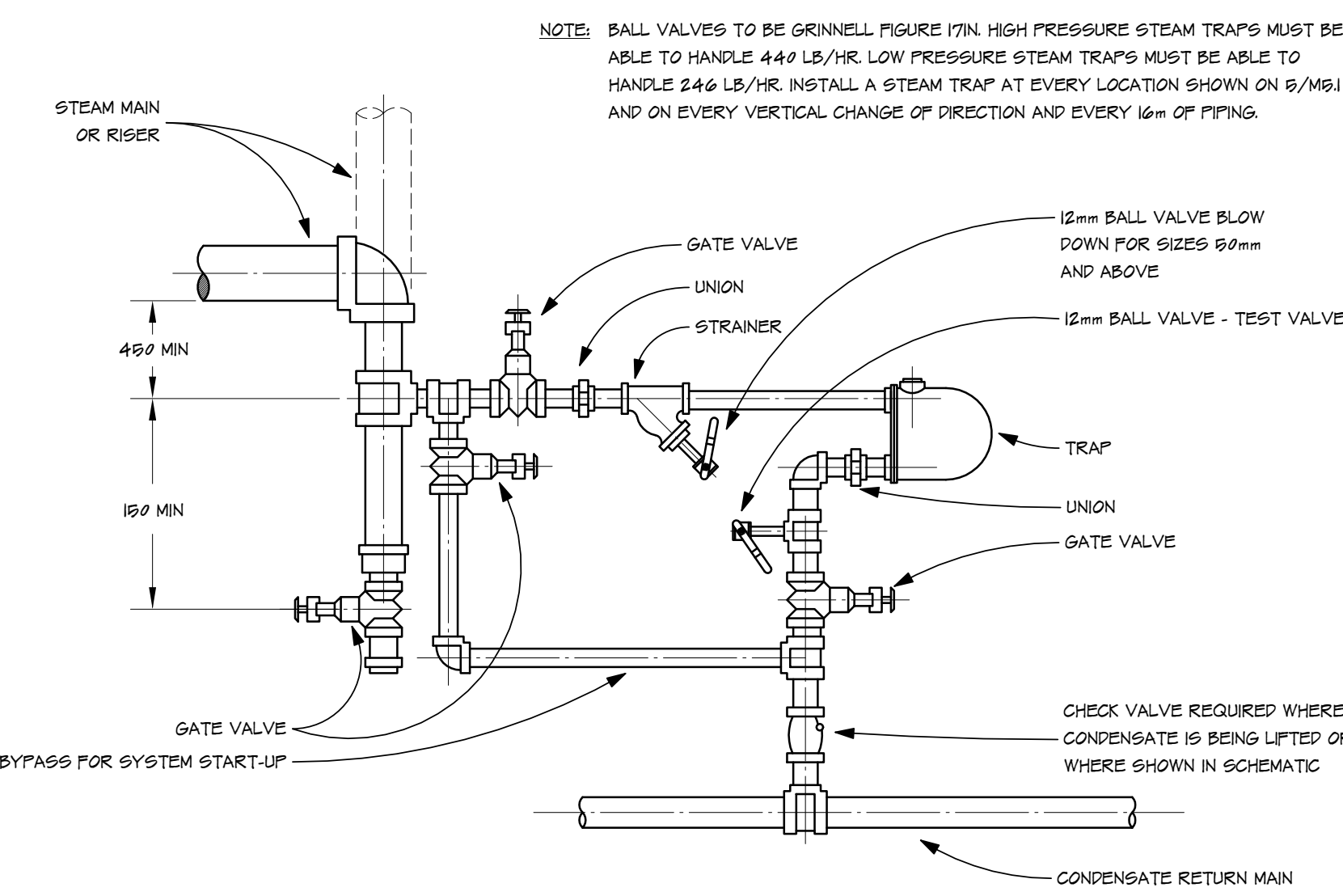
consultant  
scale: AS INDICATED  
date: 2016.04.15  
sheet no. M7.2  
REV 1



4 VAV REHEAT COIL CONNECTION DETAIL  
M7.2 NOT TO SCALE

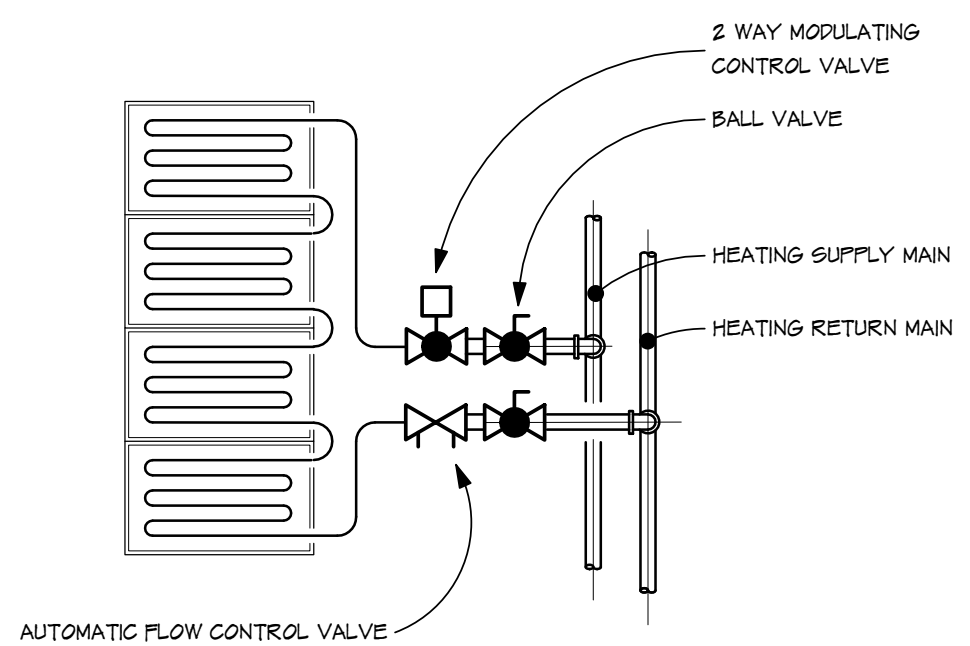


5 ATMOSPHERE RELIEF VENT DETAIL  
M7.2 NOT TO SCALE



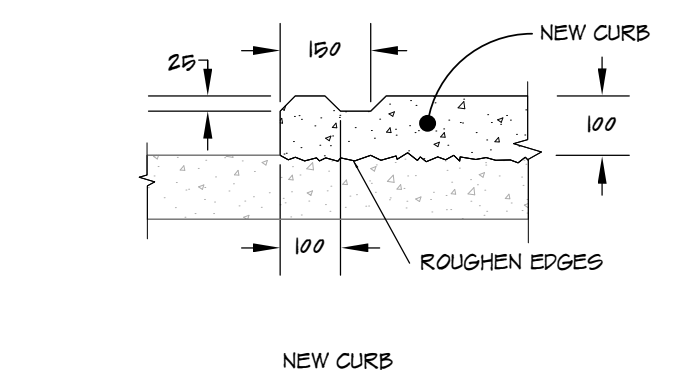
6 STEAM TRAP DETAIL  
M7.2 NOT TO SCALE

NOTE: BALL VALVES TO BE GRINNELL FIGURE 171N HIGH PRESSURE STEAM TRAPS MUST BE ABLE TO HANDLE 440 LB/HR. LOW PRESSURE STEAM TRAPS MUST BE ABLE TO HANDLE 240 LB/HR. INSTALL A STEAM TRAP AT EVERY LOCATION SHOWN ON S/M&I AND ON EVERY VERTICAL CHANGE OF DIRECTION AND EVERY 16m OF PIPING.

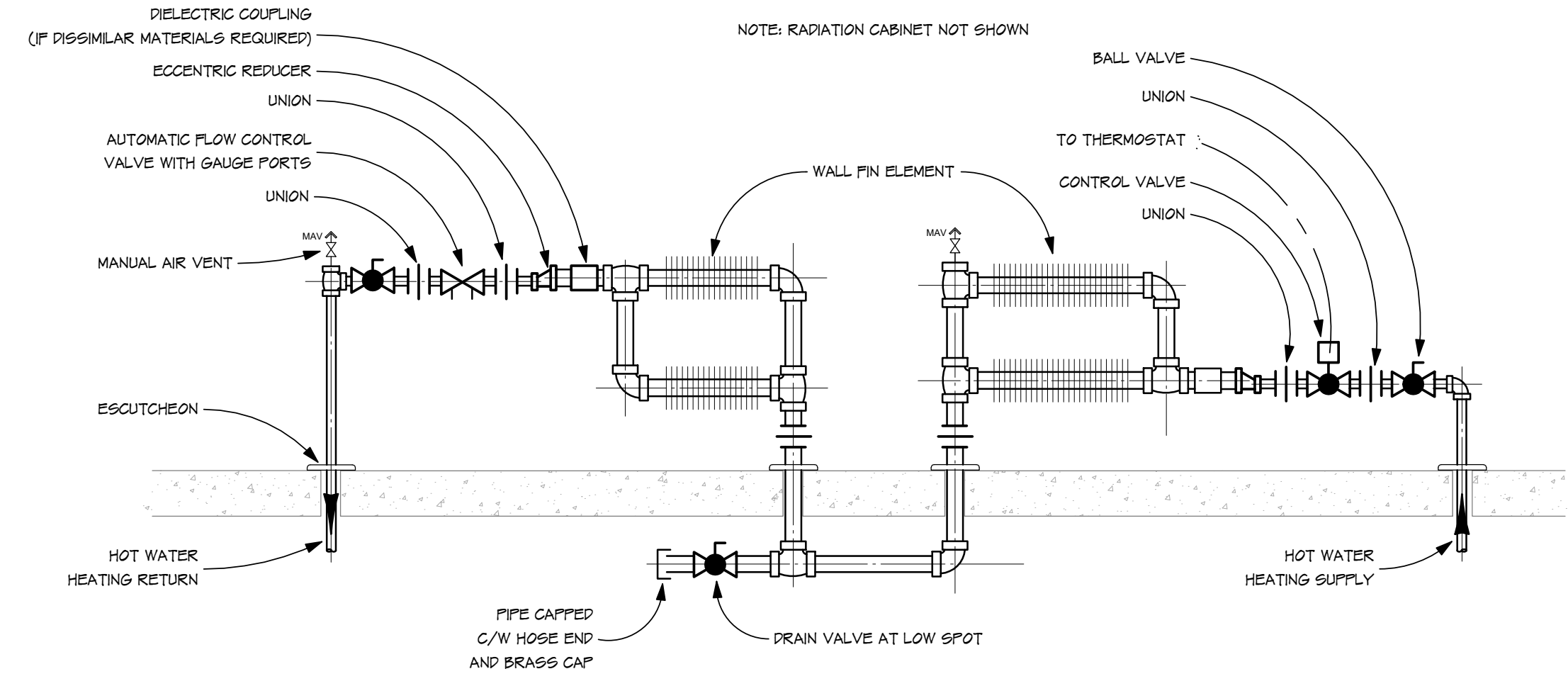


7 RADIANT PANEL CONNECTION DETAIL  
M7.2 NOT TO SCALE

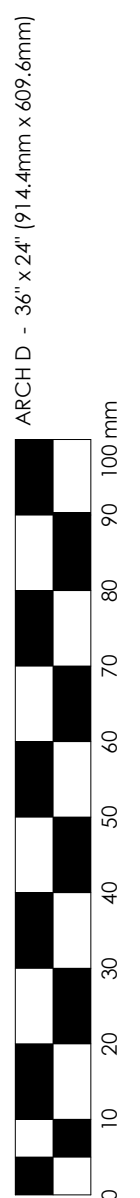
- NOTES:
- COVER TOP OF RADIANT PANELS ABOVE CEILING WITH 90mm INSULATION. INSULATION SHALL BE ENCAPSULATED AND SEALED SO THAT NO FIBREGLASS IS EXPOSED.
  - CONFIRM ARCHITECTURAL CEILING MEASUREMENT (IE. HARD METRIC/IMPERIAL) OF ALL RADIANT PANELS BEFORE ORDERING.



8 HOUSE KEEPING PAD DETAIL  
M7.2 NOT TO SCALE

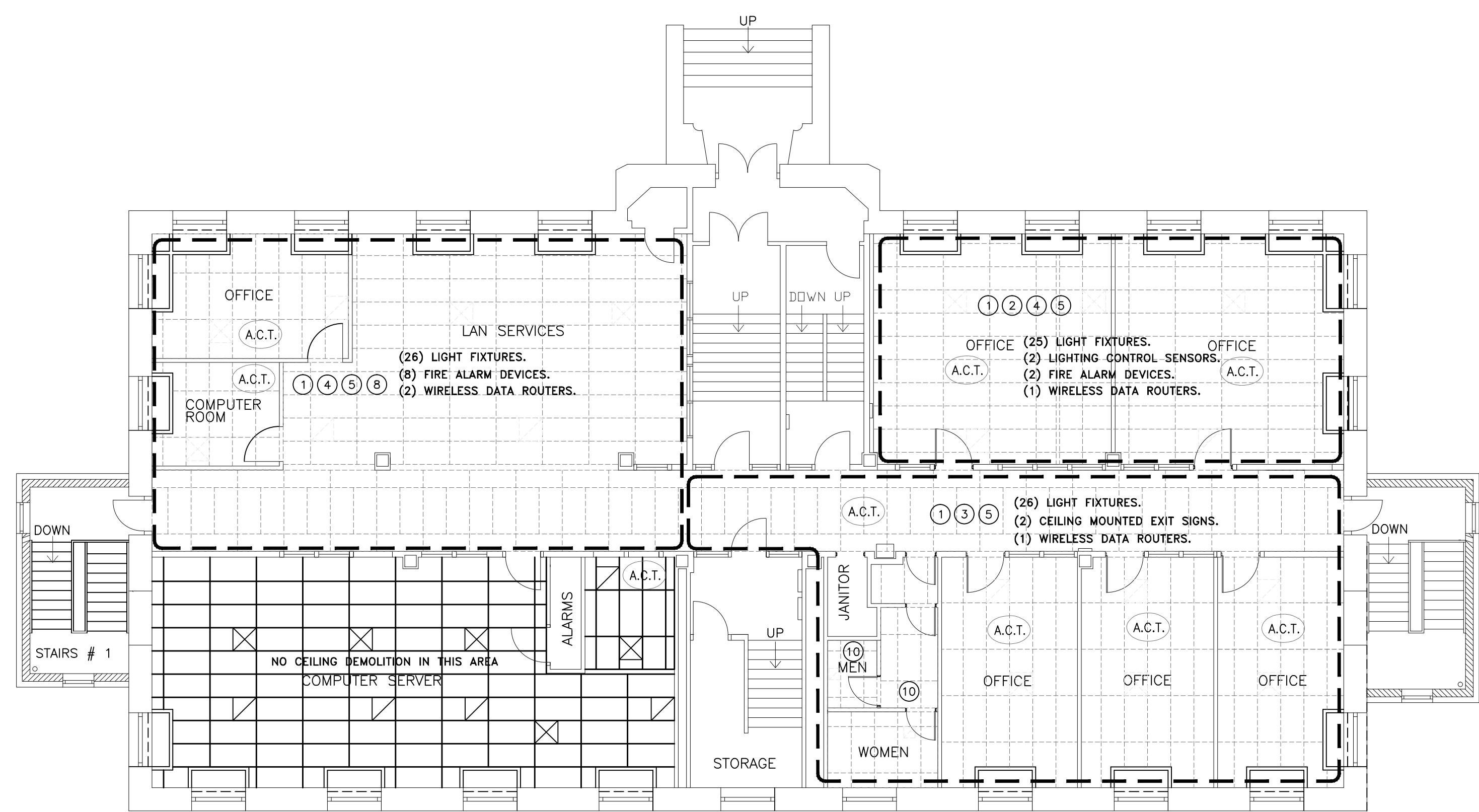


9 FINNED TUBE RADIATION DETAIL  
M7.2 NOT TO SCALE

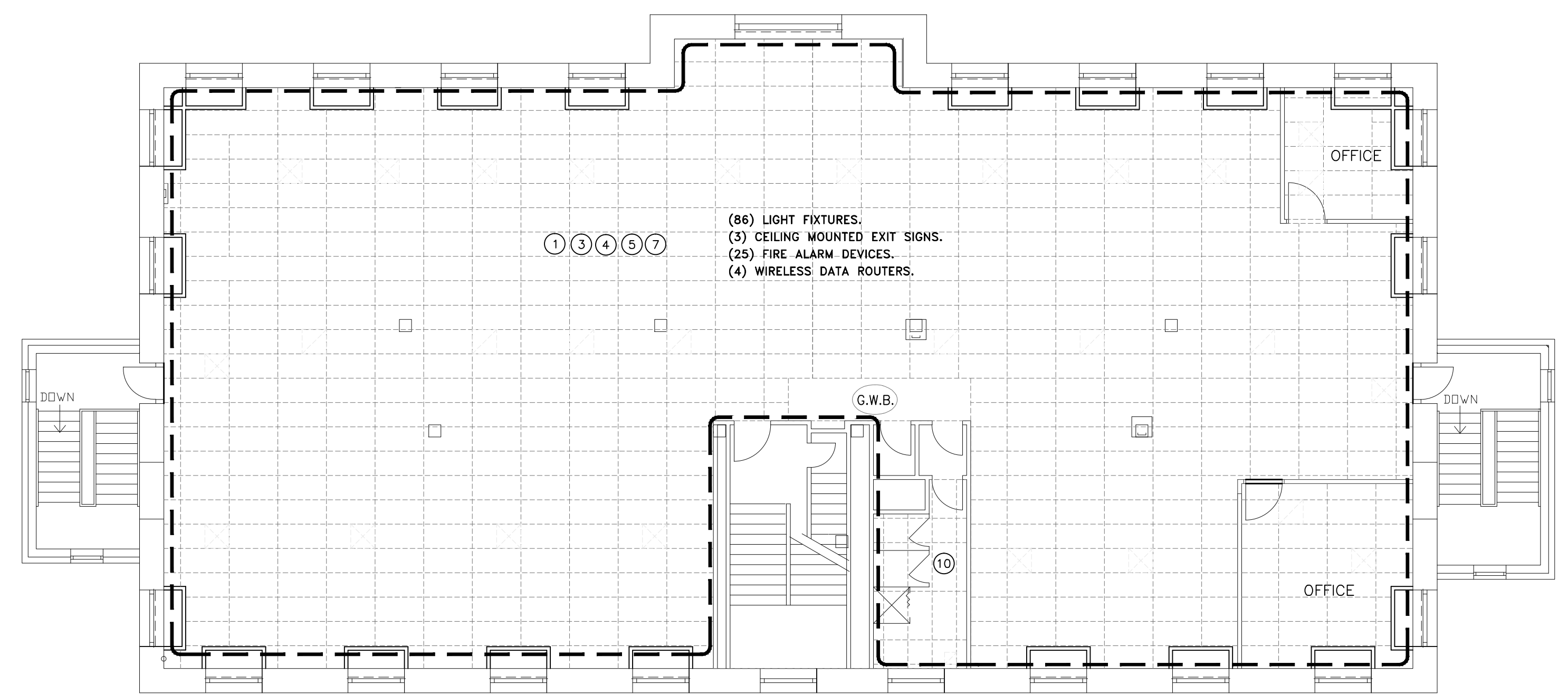


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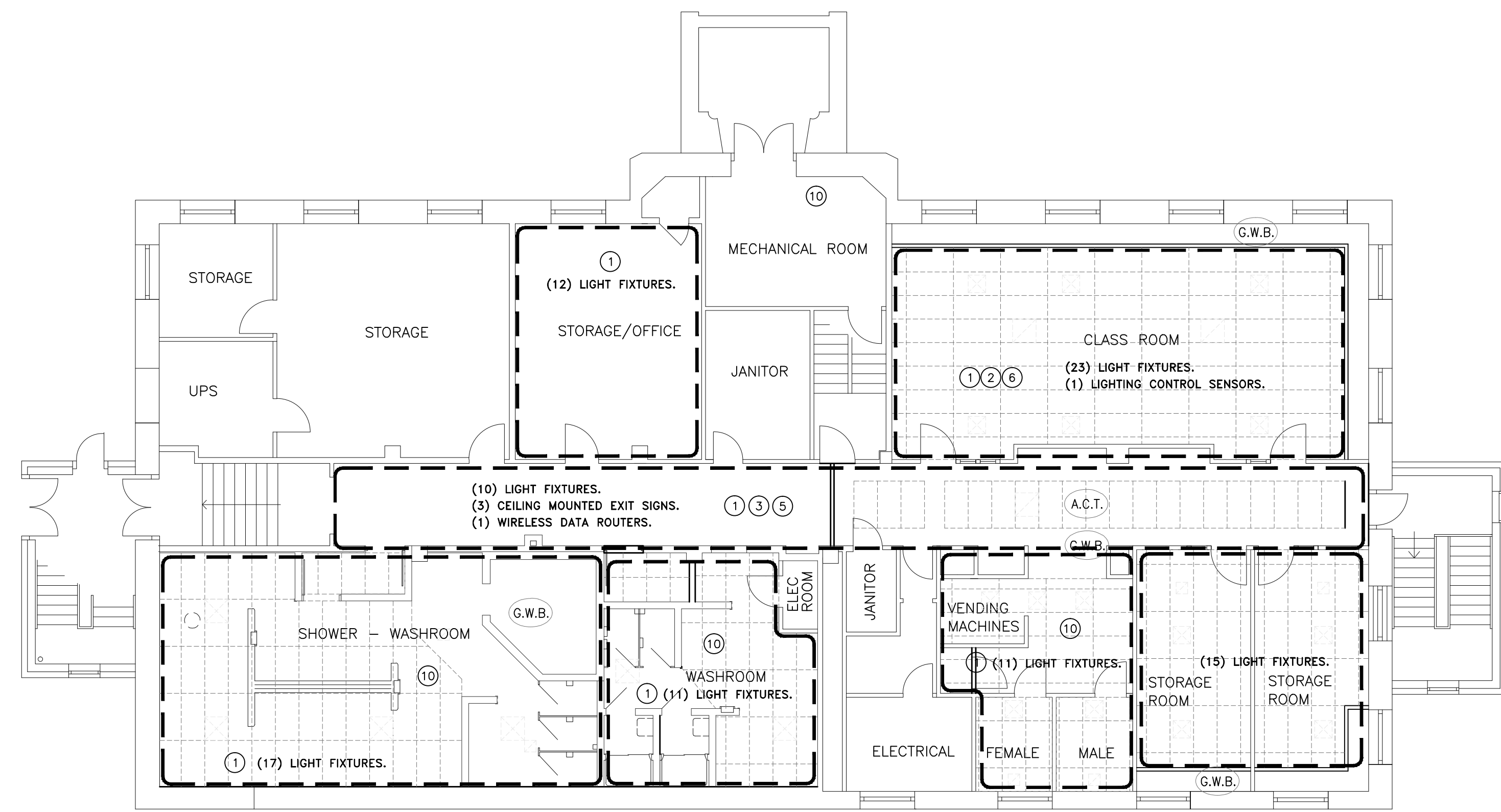
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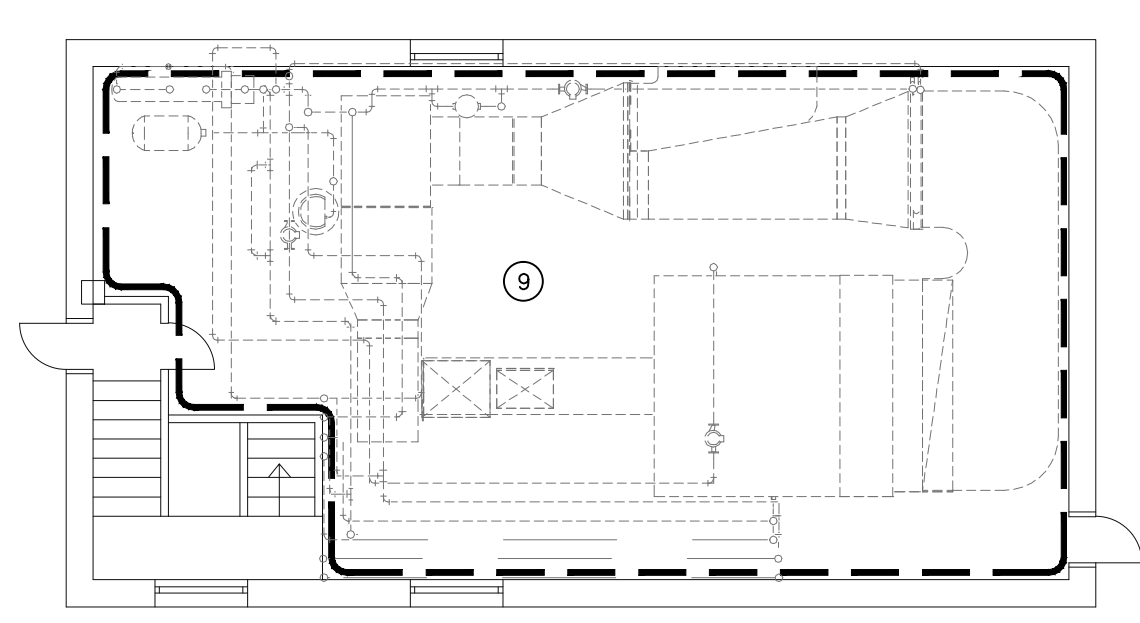
1 Main Floor Ceiling Demolition Plan  
 E1.1 1:100



2 Second Floor Ceiling Demolition Plan  
 E1.1 1:100



3 Basement Ceiling Demolition Plan  
 E1.1 1:100



4 Penthouse Ceiling Demolition Plan  
 E1.1 1:100

**SYMBOLS SCHEDULE**

- BLANKED OUTLET C/W COVERPLATE
- JUNCTION BOX/OUTLET BOX
- RECEPTACLES WITH NO SUFFIX SHALL BE MOUNTED UP 450mm. WHERE SUFFIXED, MOUNT AS FOLLOWS: 'a' - 250mm ABOVE COUNTER; 'f' - UP 900mm; 'm' - 250mm ABOVE COUNTER FOR MICROWAVE; 'GFI' - DUPLEX GROUND FAULT INTERRUPTER RECEPTACLE.
- SURFACE MOUNTED ELECTRICAL DISTRIBUTION PANEL.
- MOLDED CASE TYPE CIRCUIT BREAKER, 15 AMP UNLESS OTHERWISE NOTED
- MOTOR CONNECTION, SEE MECHANICAL DRAWINGS FOR DETAILS & CO-ORDINATE FINAL LOCATIONS ON SITE.
- MOTOR DISCONNECT SWITCH. SUFFIX "WP" - WEATHERPROOF.

**DEMOLITION NOTES:**

- 1 TAKE DOWN LIGHT FIXTURES IN THIS SPACE AND STORE IN A SAFE LOCATION TO AVOID DAMAGE. RE-INSTALL FIXTURES AT THE EXISTING LOCATION AND RECONNECT TO EXISTING LIGHTING CIRCUITS.
- 2 TAKE DOWN EXISTING LIGHTING CONTROL SENSORS IN THIS SPACE AND STORE IN A SAFE LOCATION TO AVOID DAMAGE. RE-INSTALL SENSORS AT THE EXISTING LOCATION AND PROVIDE A NEW JUNCTION BOX IN THE CEILING SPACE FOR MOUNTING OF DEVICE. RECONNECT SENSORS TO EXISTING LIGHTING CONTROL CIRCUITS.
- 3 TAKE DOWN EXISTING CEILING MOUNTED EXIT SIGNS IN THIS SPACE AND STORE IN A SAFE LOCATION TO AVOID DAMAGE. RE-INSTALL SIGNS AT THE EXISTING LOCATIONS AND PROVIDE A NEW JUNCTION BOX IN CEILING SPACE FOR MOUNTING OF SIGN. RE-CONNECT TO EXISTING EXIT SIGN CIRCUITS AND DC WIRING.
- 4 TAKE DOWN EXISTING FIRE ALARM DEVICES IN THIS SPACE AND STORE IN A SAFE LOCATION TO AVOID DAMAGE. RE-INSTALL DEVICES AT THE EXISTING LOCATION AND PROVIDE A NEW JUNCTION BOX IN CEILING SPACE FOR MOUNTING OF DEVICE. RECONNECT DEVICES TO EXISTING FIRE ALARM LOOP AND RE-VERIFY DEVICES AS OPERATIONAL.
- 5 TAKE DOWN EXISTING SURFACE MOUNTED WIRELESS DATA ROUTERS IN THIS SPACE AND STORE IN A SAFE LOCATION TO AVOID DAMAGE. RE-INSTALL ROUTERS AT THE EXISTING LOCATION AND PROVIDE A NEW JUNCTION BOX IN THE CEILING SPACE FOR MOUNTING OF DEVICE. RECONNECT ROUTERS TO EXISTING DATA NETWORK CABLES.
- 6 TAKE DOWN THE EXISTING PROJECTOR AND STORE IN A SAFE LOCATION TO AVOID DAMAGE. RE-INSTALL AND RECONNECT AT THE SAME LOCATION.
- 7 TAKE DOWN THE EXISTING EMERGENCY REMOTE LIGHTING HEAD AND STORE IN A SAFE LOCATION, AND RE-INSTALL AT THE EXISTING LOCATION AND RE-CONNECT.
- 8 TAKE DOWN ONE EXISTING DOOR CHIME AND STORE IN A SAFE LOCATION TO AVOID DAMAGE. RE-INSTALL AT THE EXISTING LOCATION AND RE-CONNECT.
- 9 TAKE DOWN THE EXISTING LIGHT FIXTURES IN THIS SPACE AND RETAIN THE EXISTING LIGHTING CIRCUITS. RE-INSTALL THE EXISTING FIXTURES AT NEW LOCATIONS COORDINATED WITH THE NEW MECHANICAL EQUIPMENT AND DUCTWORK TO ACHIEVE OPTIMAL LIGHTING IN THE SPACE. PROVIDE (6) ADDITIONAL STRIP LIGHTS C/W WIRE GUARDS AND CONNECT TO THE EXISTING LIGHTING CIRCUIT AND CONTROL SWITCHES.

10 DISCONNECT EXISTING FANS THAT ARE BEING REMOVED AND REMOVE ALL ASSOCIATED CONDUIT AND WIRING BACK TO THE SOURCE.

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 DRIVER TRAINING BUILDING  
 REGINA, SK

project  
 BASEMENT, MAIN, SECOND & PENTHOUSE CEILING DEMOLITION PLANS & SYMBOL SCHEDULE

sheet title  
  
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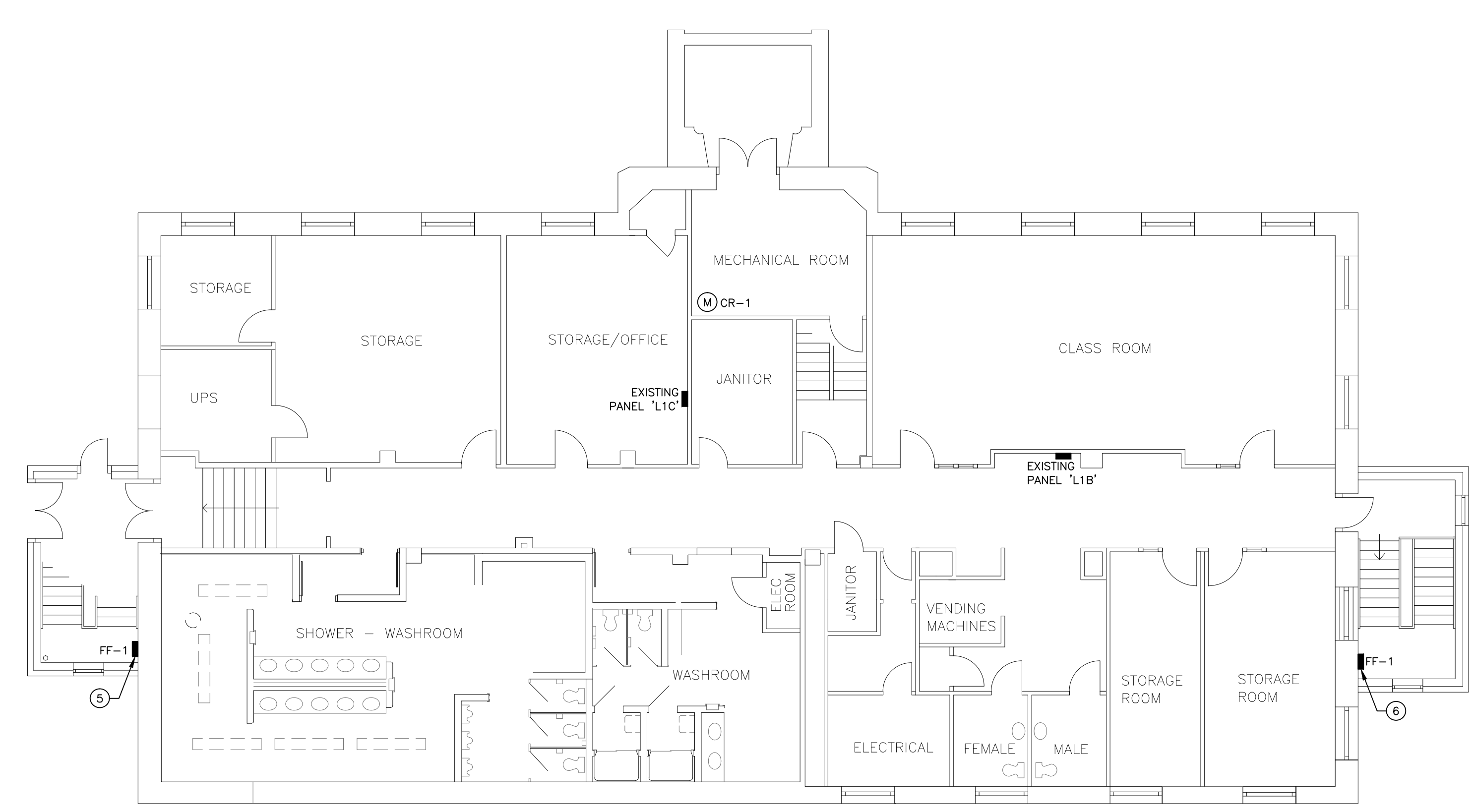
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 drawn by: GTK  
 checked by: SBK  
 project no. 2016008  
 sheet no. E1.1

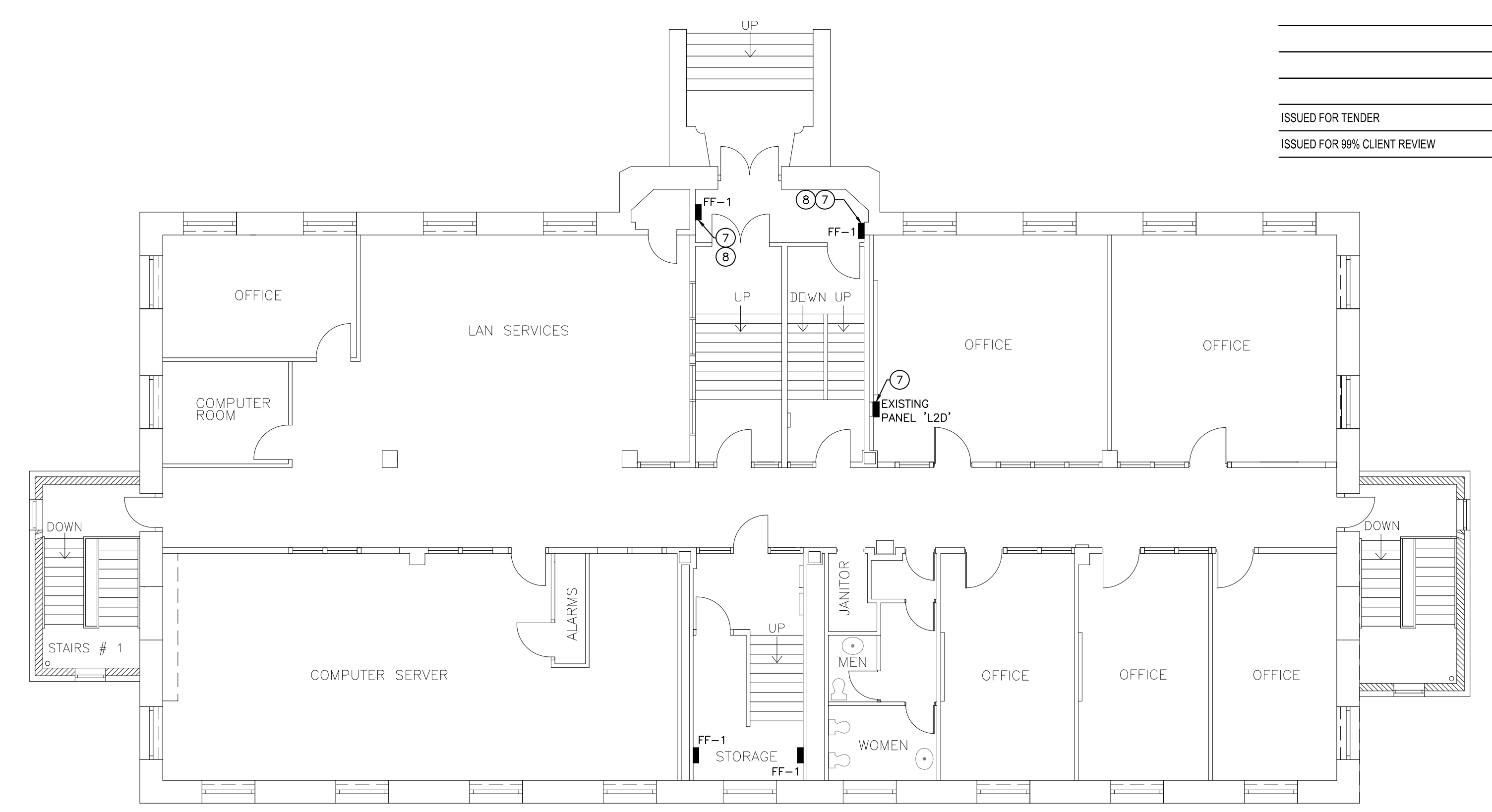
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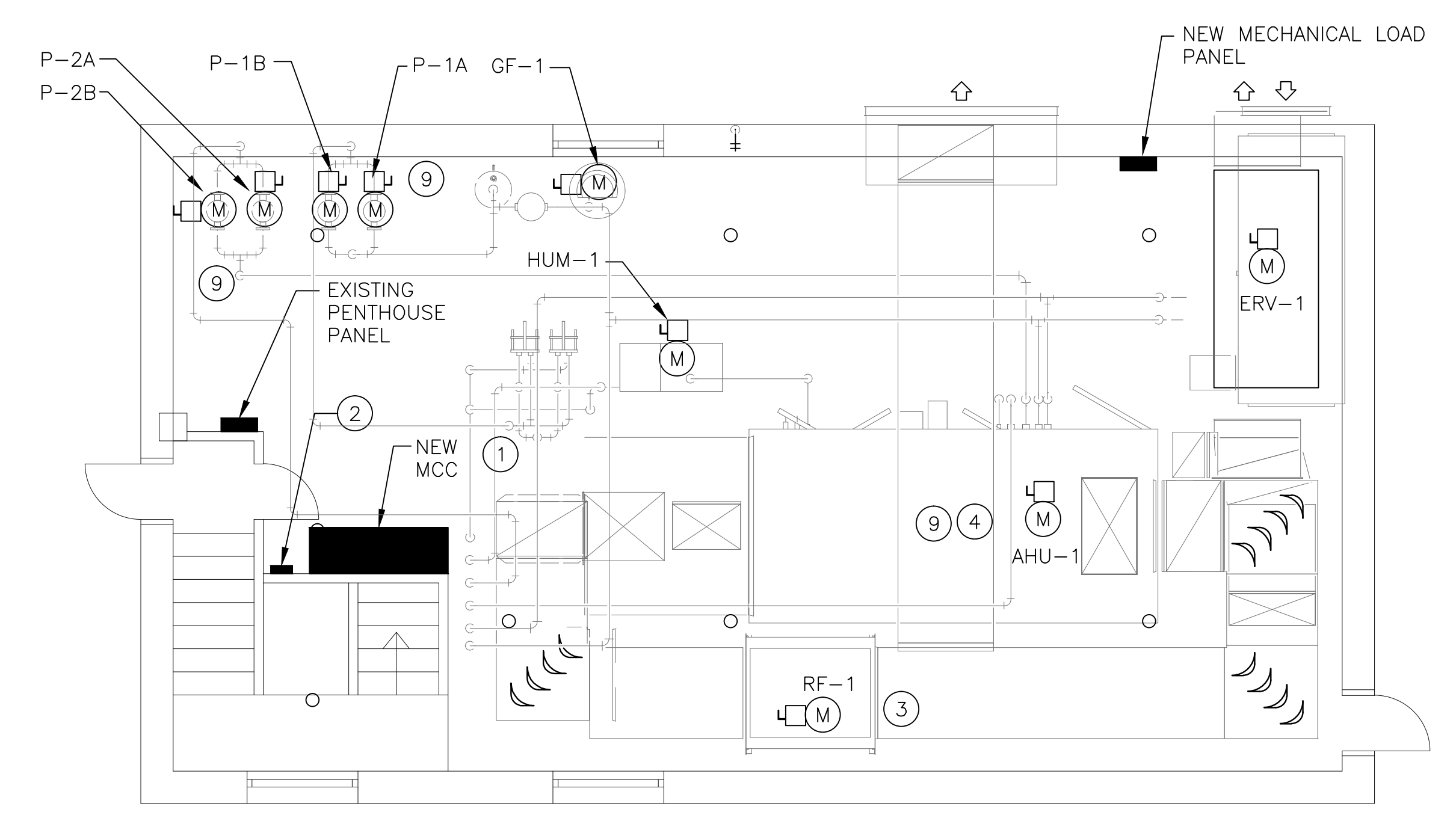
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**1 BASEMENT ELECTRICAL PLAN**  
 E2.1 1:100



**2 MAIN FLOOR ELECTRICAL PLAN**  
 E2.1 1:100



**3 Penthouse Electrical Plan**  
 E2.1 1:50

- DRAWING NOTES**
- REMOVE EXISTING MOTOR CONTROL CENTRE EQUIPMENT AND ALL ASSOCIATED CONNECTIONS TO EXISTING MECHANICAL EQUIPMENT BEING REMOVED. INTERCEPT EXISTING FEEDER AND TIE INTO CABLE ENTRY BOX ON MCC STRUCTURE.
  - EXISTING CONTROLS BOX. REMOVE EXISTING CONTROL CABLING AND CONDUIT ASSOCIATED WITH EXISTING MOTOR CONTROL BEING REMOVED BACK TO EXISTING CONTROL BOX. PROVIDE ONE (1) 50MM EMT CONDUIT FROM EXISTING CONTROLS BOX TO NEW MCC CONTROLS SECTION.
  - REMOVE EXISTING POWER FACTOR CORRECTION EQUIPMENT ASSOCIATED WITH OLD SUPPLY FAN SF-1 AND ASSOCIATED CONDUIT/CABLING.
  - INTERCEPT AND RECONNECT EXISTING FIRE ALARM EQUIPMENT SHUTDOWN FOR AIR HANDLING UNIT AHU-1 AND RF-1.
  - PROVIDE NEW 15A-1P BREAKER IN EXISTING PANEL 'L1C' AND RUN 2 #12 RW90 AND BOND IN BX CABLING OR EMT TO FF-1 LOCATION.
  - PROVIDE NEW 15-1P BREAKER IN EXISTING PANEL 'L1B' AND RUN 2 #12 RW90 AND BOND IN BX CABLING OR EMT TO FF-1 LOCATION.
  - PROVIDE NEW 15A-1P BREAKER IN EXISTING PANEL 'L2D' AND RUN 2 #12 RW90 AND BOND IN BX CABLING OR EMT TO FF-1 LOCATION.
  - FORCE FLOW UNITS FF-1 IN VESTIBULE MAY SHARE SAME CIRCUIT.
  - VFD'S ARE PROVIDED AND INSTALLED BY THE MECHANICAL CONTRACTOR AND WIRED BY THE ELECTRICAL CONTRACTOR. COORDINATE FINAL LOCATIONS WITH THE MECHANICAL CONTRACTOR ON SITE.

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project  
 BASEMENT, MAIN FLOOR,  
 & PENTHOUSE  
 ELECTRICAL PLANS

sheet title

**Ritenburg & Associates Ltd.**  
 Consulting Electrical Engineers

consultant

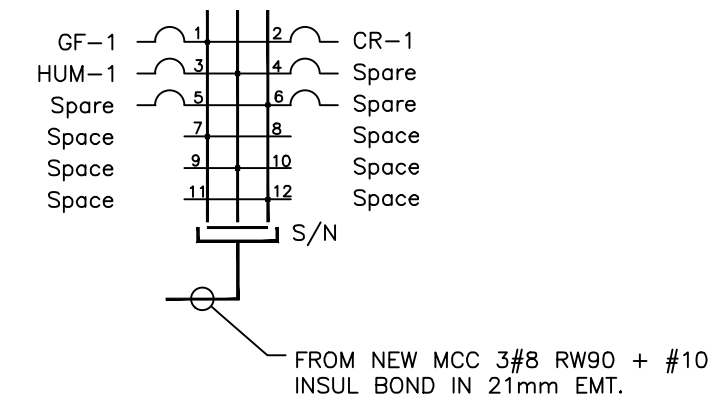
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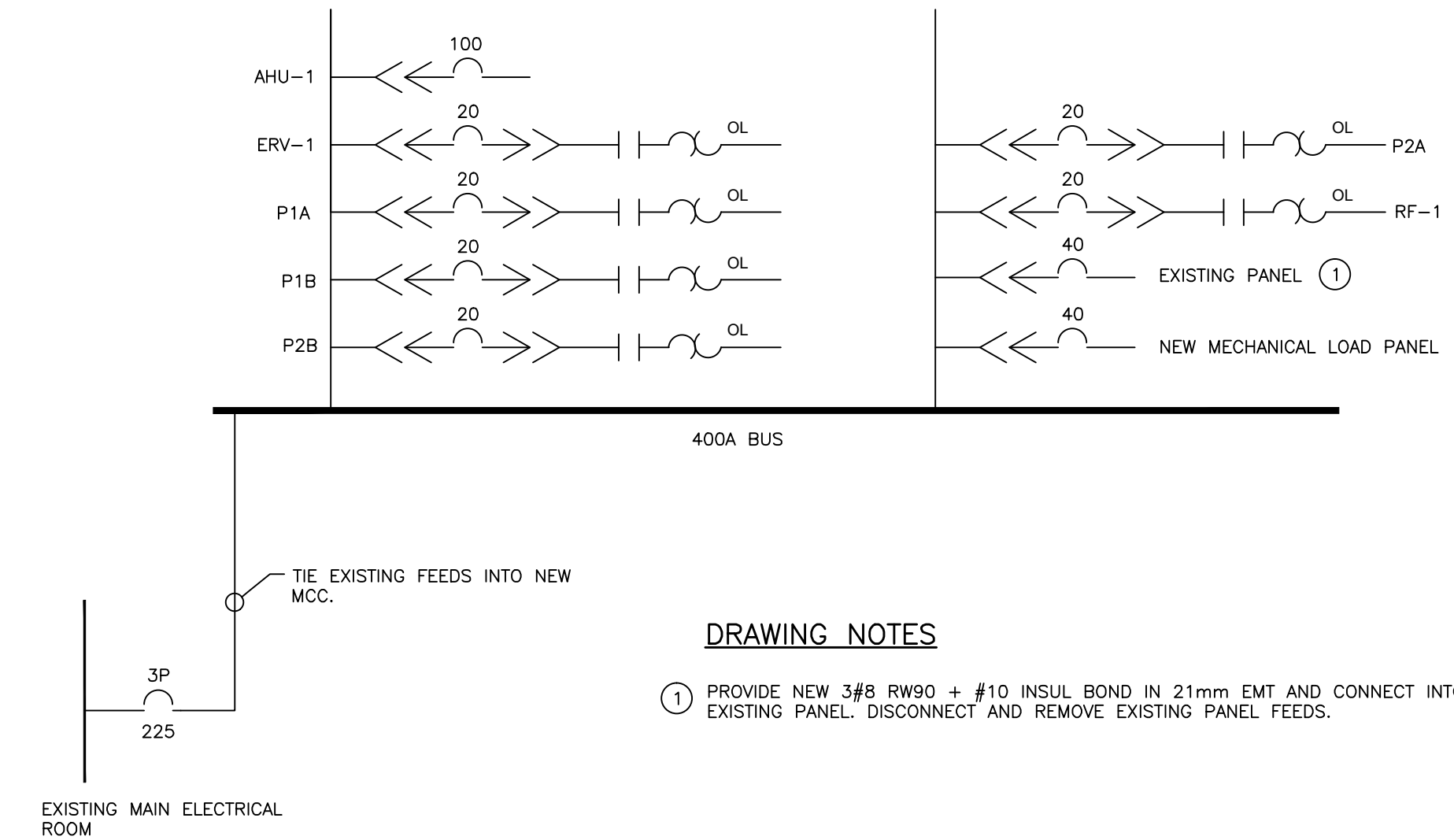
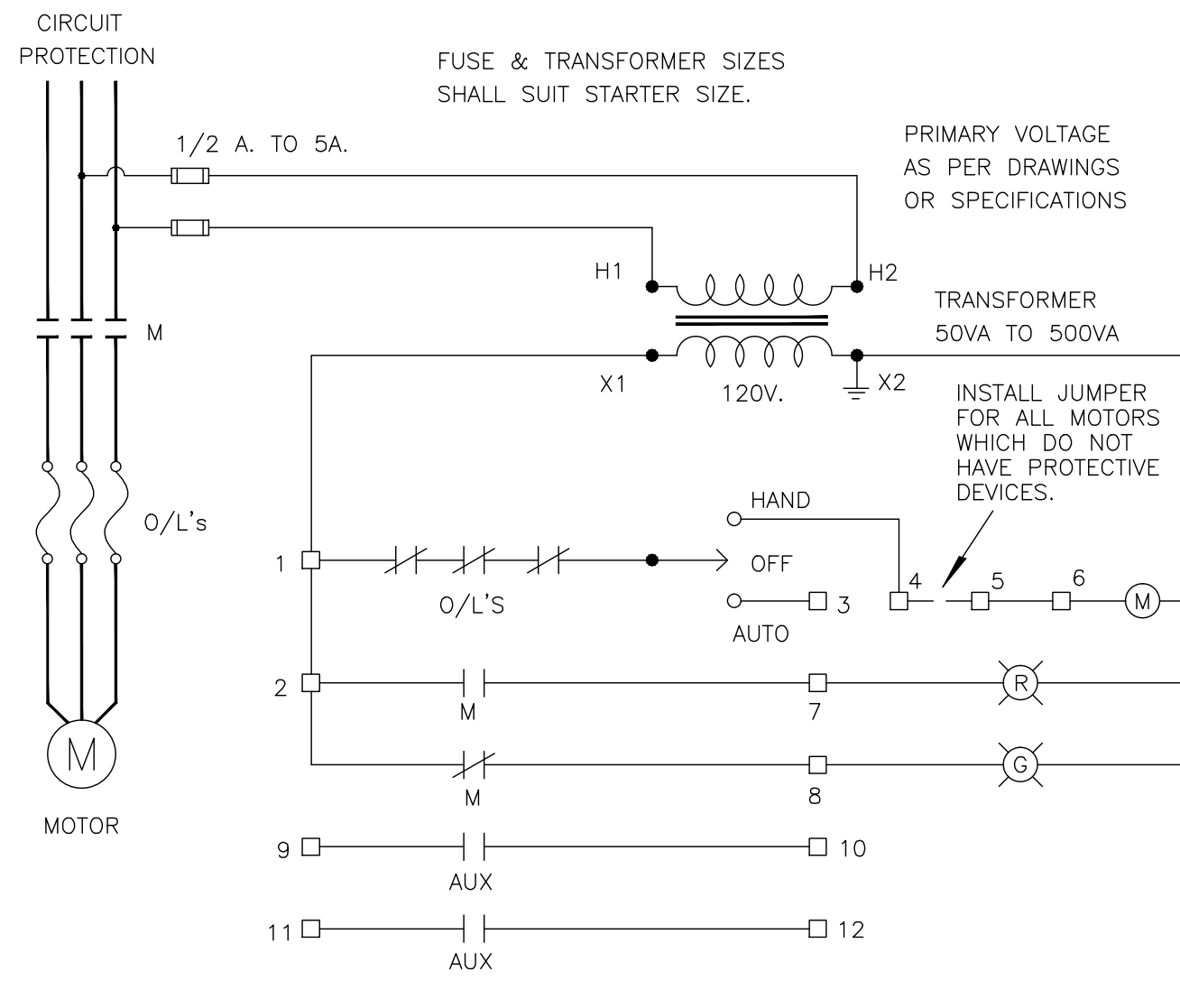
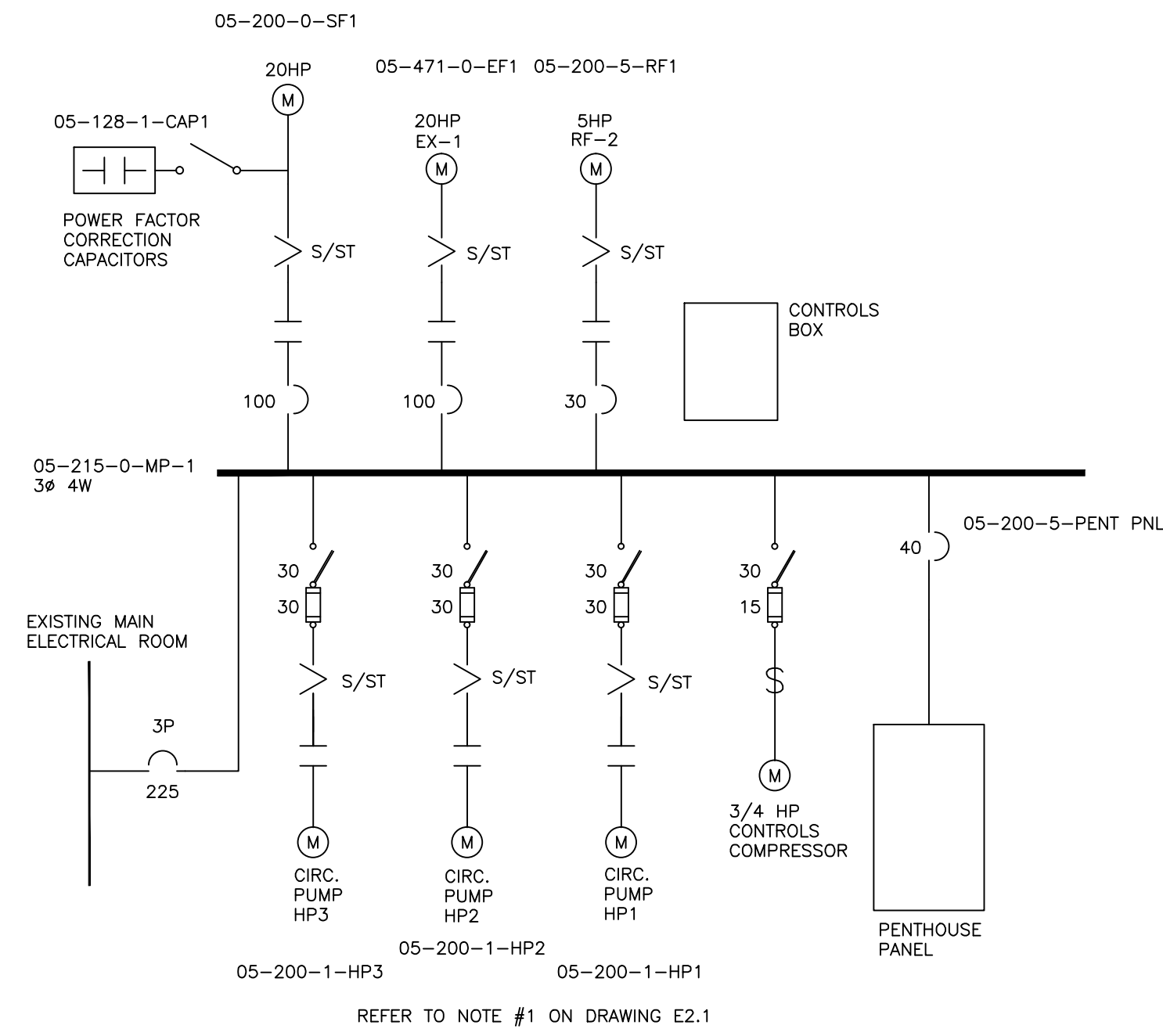
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 checked by: SBK  
 project no. 2016008  
 sheet no. E2.1

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 JAN 10, 1990  
 DATE: 12:00  
 DRAWN BY: [Name]  
 CHECKED BY: [Name]  
 PROJECT: [Name]

**NEW MECHANICAL LOAD PANEL**



**1 New Schematic**  
E2.2 (120/208 V.-3Ø-4W.)



**2 Existing Penthouse Electrical Distribution Schematic**  
E2.2 (120/208 V.-3Ø-4W.)

**3 Wiring Diagram F.V.N.R Starter**  
E2.2

**4 New MCC Schematic**  
E2.2 (120/208 V.-3Ø-4W.)

MECHANICAL EQUIPMENT SCHEDULE										
DESIGNATION	HP	PHASE	VOLT	FLA	MCA	PROTECTION	CONNECTION	LOCATION	NOTES	CABLING / CONDUIT
AHU-1	15	3	208	46.20	57.80	BREAKER	DIRECT	MCC	AHU HAS LOCAL PACKAGED VFD PROVIDE LOCAL DISCONNECT	3#3 RW90 + #8 INSUL GND IN 27mm EMT
ERV-1	3	3	208	9.51		PROVIDE COMBO STARTER	DIRECT	MCC	PUMP C/W PACKAGED VFD PROVIDE LOCAL DISCONNECT	3#12 RW90 + #12 INSUL GND IN 21mm EMT
P1A	5	3	208	17.50		UNIT C/W VFD	DIRECT	MCC	PUMP C/W PACKAGED VFD PROVIDE LOCAL DISCONNECT	3#12 RW90 + #12 INSUL GND IN 21mm EMT
P1B	5	3	208	17.50		UNIT C/W VFD	DIRECT	MCC	PUMP C/W PACKAGED VFD PROVIDE LOCAL DISCONNECT	3#12 RW90 + #12 INSUL GND IN 21mm EMT
P2A	3	3	208	10.60		UNIT C/W VFD	DIRECT	MCC	PUMP C/W PACKAGED VFD PROVIDE LOCAL DISCONNECT	3#12 RW90 + #12 INSUL GND IN 21mm EMT
P2B	3	3	208	10.60		UNIT C/W VFD	DIRECT	MCC	PUMP C/W PACKAGED VFD PROVIDE LOCAL DISCONNECT	3#12 RW90 + #12 INSUL GND IN 21mm EMT
RF-1	3	3	208	10.60		PROVIDE COMBO STARTER	DIRECT	MCC	PROVIDE LOCAL DISCONNECT	3#12 RW90 + #12 INSUL GND IN 21mm EMT
FF-1	100	1	120	0.70		BREAKER	DIRECT	LOCAL PANEL	80 W	2#12 RW90 + #12 INSUL BOND IN BX
CR-1	1	1	120	8.4 A		BREAKER	DIRECT	LOCAL PANEL	FED FROM MECHANICAL LOAD PANEL PROVIDE LOCAL DISCONNECT	2#12 RW90 + #12 INSUL BOND IN 21mm EMT
GF-1		1	120			BREAKER	DIRECT	LOCAL PANEL	FED FROM MECHANICAL LOAD PANEL PROVIDE LOCAL DISCONNECT	2#12 RW90 + #12 INSUL BOND IN 21mm EMT
HUM-1		1	120	1.25 A		BREAKER	DIRECT	LOCAL PANEL	FED FROM MECHANICAL LOAD PANEL PROVIDE LOCAL DISCONNECT	2#12 RW90 + #12 INSUL BOND IN 21mm EMT

**MECHANICAL EQUIPMENT SCHEDULE NOTES**

- THE AHU IS SUPPLIED C/W MOTOR FEEDER TERMINATION BOXES MOUNTED ON THE AHU ENCLOSURE. VFD IS INTEGRAL AND SHALL BE INSTALLED BY THE MECHANICAL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR WIRING TO THE UNIT AND FROM THE VFD TO THE EQUIPMENT MOTOR FINAL CONNECTION.
- THE CONDENSATE RECEIVER CR-1 IS SUPPLIED C/W PACKAGED STARTER. PROVIDE FINAL WIRING CONNECTION TO STARTER.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE A COMBINATION STARTER FOR THE ENERGY RECOVERY VENTILATOR ERV-1. PROVIDE FINAL WIRING CONNECTION TO STARTER.
- FOR PUMPS P-1A, P-1B, P-2A AND P-2B THE VFD IS PACKAGED WITH THE PUMPS AND SHALL BE INSTALLED BY THE MECHANICAL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR WIRING TO THE VFD AND FROM THE VFD TO THE MOTOR FINAL CONNECTION.

**MECHANICAL EQUIPMENT GENERAL NOTES**

- ALL CONTROL WIRING SHALL BE SUPPLIED AND INSTALLED BY THE MECHANICAL CONTROLS CONTRACTOR.
- ELECTRICAL CONTRACTOR SHALL PROVIDE (1) 15 AMP 120 VOLT CIRCUIT WITH ONE JUNCTION BOX IN LOCATED IN THE WEST CEILING SPACE AND ONE JUNCTION BOX LOCATED IN THE EAST CEILING SPACE OF EACH FLOOR INCLUDING THE PENTHOUSE FOR VAV CONTROL CIRCUITS. TOTAL OF FOUR CIRCUITS. FEED FROM CLOSEST 120 VOLT DISTRIBUTION PANEL ON EACH FLOOR. COORDINATE FINAL LOCATION WITH THE MECHANICAL CONTRACTOR ON SITE.

NOTE: CONDUCTOR/CONDUIT SIZES SHOWN IN THE EQUIPMENT SCHEDULE ARE MINIMUM SIZES. FEEDERS SHALL BE ADJUSTED ACCORDINGLY TO LIMIT VOLTAGE DROP TO A MAXIMUM OF 3%.

THIS DRAWING MUST NOT BE SCALED.  
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**GOVERNMENT OF CANADA DRIVER TRAINING BUILDING REGINA, SK**

project **ELECTRICAL SCHEMATICS MECHANICAL SCHEDULE & DETAILS**

sheet title

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