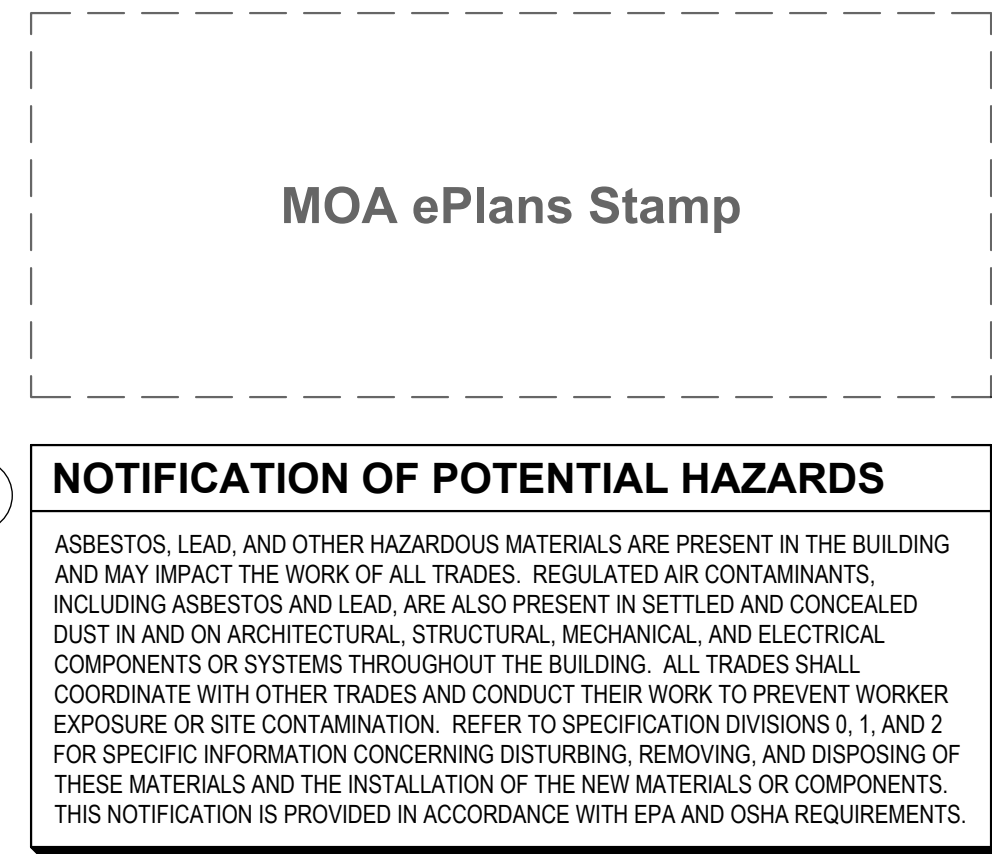
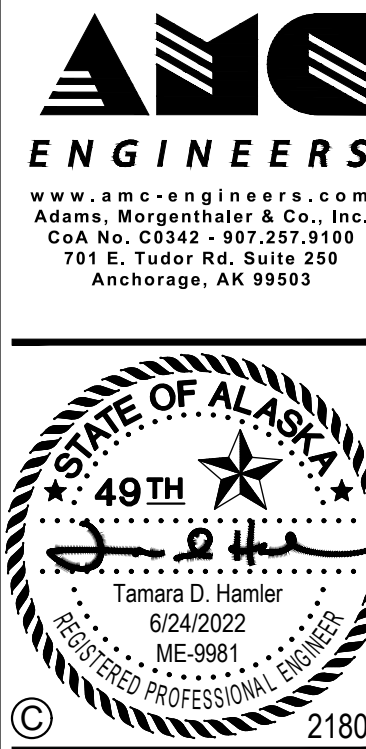


1. HRV-1 VENTILATION SYSTEM TO REMAIN.
2. ELEVATOR EQUIPMENT ROOM VENTILATION SYSTEM TO REMAIN.
3. DEMOLISH 60X42 MOTORIZED RELIEF DAMPER. LOUVER TO REMAIN. REFER TO ARCHITECTURAL.
4. DEMOLISH 44X40 OSA INTAKE DUCTWORK AND ROOF HOOD.
5. DEMOLISH 36X36 E/A ASSEMBLY. REPAIR WALL TO MATCH EXISTING. REFER TO ARCHITECTURAL.
6. DEMOLISH 36X12 R/A GRILLE. PATCH AND REPAIR WALL TO MATCH ADJACENT. REFER TO ARCHITECTURAL.
7. DEMOLISH EQUIPMENT, DUCTWORK, DAMPERS, DIFFUSERS, HANGERS, AND ASSOCIATED CONTROLS AS INDICATED.
8. COORDINATE LIMITS OF DEMOLITION WITH NEW WORK.
9. FIELD VERIFY EXISTING CONDITIONS.



1. LOBBY DUCTWORK AND DIFFUSERS TO REMAIN.
2. ATRIUM DUCTWORK AND DIFFUSERS TO REMAIN.
3. DEMOLISH 60X60 RELIEF GRILLE. PATCH AND REPAIR WALL TO MATCH ADJACENT. REFER TO ARCHITECTURAL.
4. DEMOLISH EQUIPMENT, DUCTWORK, DAMPERS, DIFFUSERS, HANGERS, AND ASSOCIATED CONTROLS AS INDICATED.
5. COORDINATE LIMITS OF DEMOLITION WITH NEW WORK.
6. FIELD VERIFY EXISTING CONDITIONS.

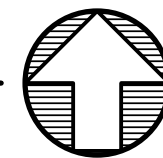
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Date:	6/24/202
Project Phase	
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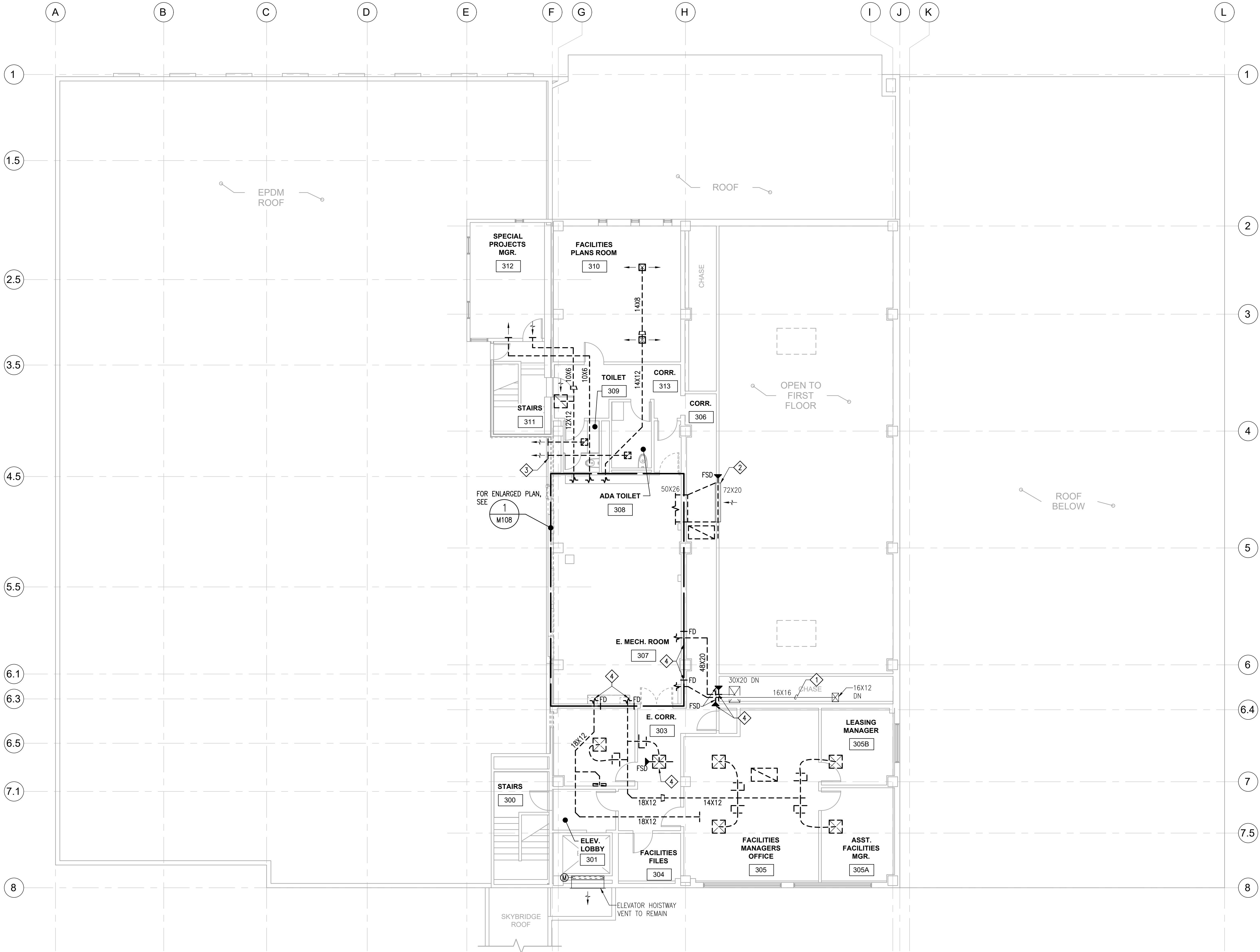
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M105 SCALE: 1/8" = 1'-0"



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NOTIFICATION OF POTENTIAL HAZARDS

ASBESTOS, LEAD, AND OTHER HAZARDOUS MATERIALS ARE PRESENT IN THE BUILDING AND MAY IMPACT THE WORK OF ALL TRADES. REGULATED AIR CONTAMINANTS, INCLUDING ASBESTOS AND LEAD, ARE ALSO PRESENT IN SETTLED AND CONCEALED DUST IN AND ON ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL COMPONENTS OR SYSTEMS THROUGHOUT THE BUILDING. ALL TRADES SHALL COORDINATE WITH OTHER TRADES AND CONDUCT THEIR WORK TO PREVENT WORKER EXPOSURE OR SITE CONTAMINATION. REFER TO SPECIFICATION DIVISIONS 0, 1, AND 2 FOR SPECIFIC INFORMATION CONCERNING DISTURBING, REMOVING, AND DISPOSING OF THESE MATERIALS AND THE INSTALLATION OF THE NEW MATERIALS OR COMPONENTS. THIS NOTIFICATION IS PROVIDED IN ACCORDANCE WITH EPA AND OSHA REQUIREMENTS.

- DEMOLITION NOTES
- 1

 DUCTWORK TO REMAIN.
- 2

 WALL GRILLE TO REMAIN. WIPE SURFACES CLEAN. DEMOLISH COMBINATION FIRE SMOKE DAMPER AND DUCTWORK.
- 3

 PATCH WALL TO MATCH EXISTING. REFER TO ARCHITECTURAL.
- 4

 DEMOLISH LIFE SAFETY DAMPERS.
5. DEMOLISH DUCTWORK, DAMPERS, DIFFUSERS, HANGERS, AND ASSOCIATED CONTROLS AS INDICATED.
6. COORDINATE LIMITS OF DEMOLITION WITH NEW WORK.
7. FIELD VERIFY EXISTING CONDITIONS.
8. SEE 1/M107 FOR ROOF PLAN.

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Anchorage, AK 99503

STATE OF ALASKA

49TH

Tamara D. Hamler

6/24/2022

ME-9981

REGISTERED PROFESSIONAL ENGINEER

21805

ALASKA COURT SYSTEM  
SNOWDEN ADMIN BUILDING  
MECHANICAL UPGRADES

Revisions

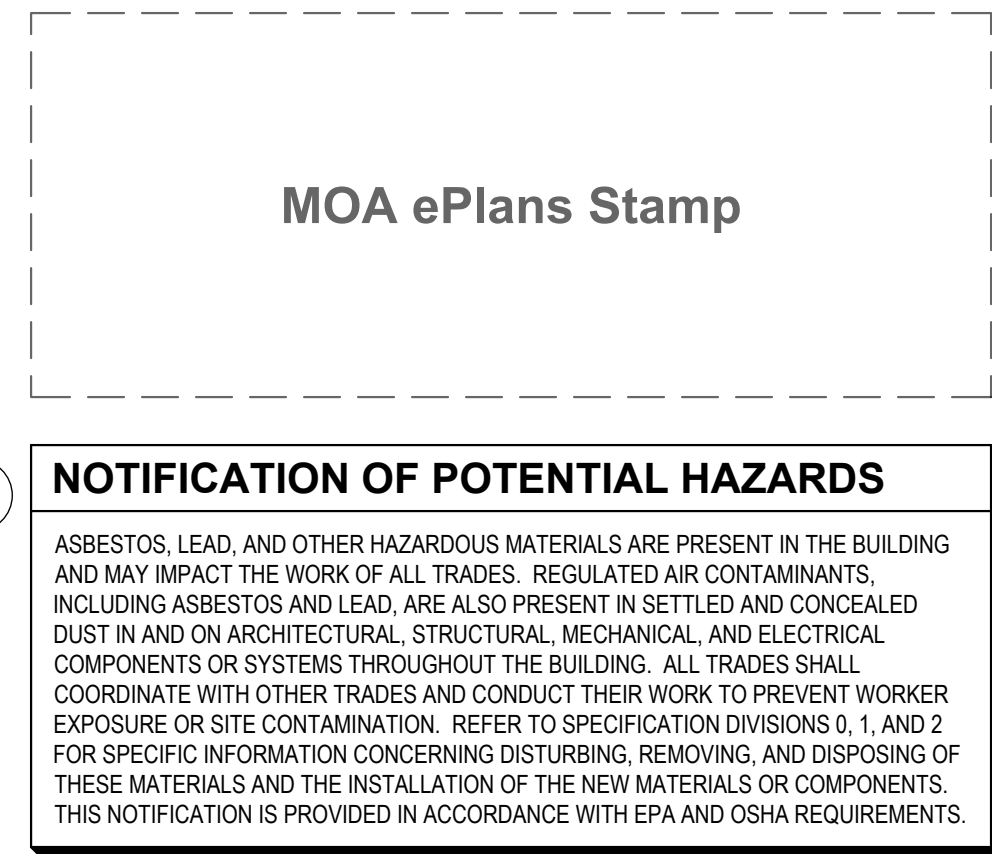
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SCALE ACCORDINGLY

Designed by: TBD/MPL  
Checked by: TDH  
AMC Project: 21805  
Date: 6/24/2022  
Project Phase  
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Sheet Title  
THIRD FLOOR PLAN -  
VENTILATION -  
DEMOLITION

Sheet Number  
M106

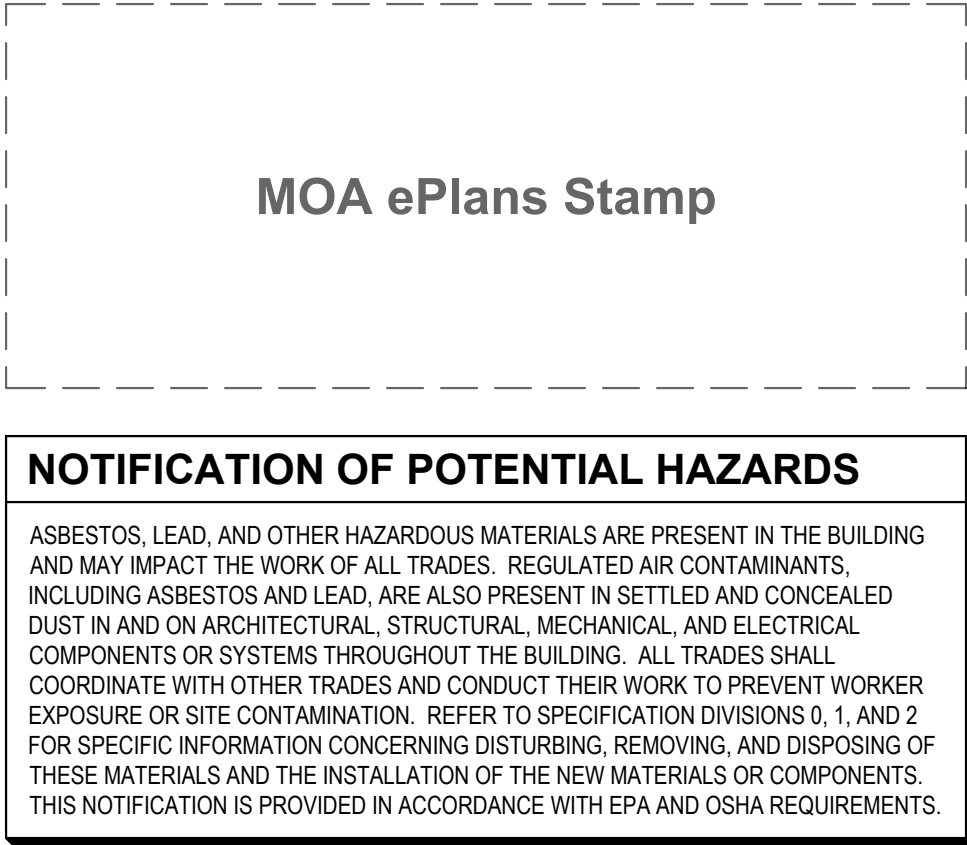


1. DEMOLISH FIRE SMOKE VENT. ROOF CURB TO REMAIN. REFER TO ARCHITECTURAL.
2. DEMOLISH FIRE SMOKE VENT. PROVIDE INSULATED ROOF CAP. REFER TO ARCHITECTURAL.
3. DEMOLISH VTR. EXTEND VENT PIPING UP TO NEW FAN ROOM ROOF.
4. COORDINATE LIMITS OF DEMOLITION WITH NEW WORK.
5. FIELD VERIFY EXISTING CONDITIONS.
6. PATCH AND REPAIR ROOF PENETRATIONS. REFER TO ARCHITECTURAL.

Sheet Number

**M107**





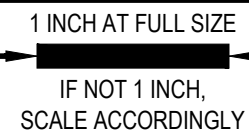
1. REMOVE AND RETAIN BAS PANEL FOR RELOCATION.
2. MODIFY FIRE PROTECTION PIPING TO SUPPORT INSTALLATION OF NEW EQUIPMENT, PIPING, AND DUCTWORK. ADD, REMOVE, OR RELOCATE SPRINKLERS TO PROVIDE FULL COVERAGE.
3. NOT ALL DUCTWORK, PIPING, AND EQUIPMENT SHOWN. INTENT IS TO DEMOLISH EQUIPMENT, DUCTWORK, AND PIPING WITHIN MECHANICAL ROOM COMPLETELY.
4. COORDINATE LIMITS OF DEMOLITION WITH NEW WORK.
5. FIELD VERIFY EXISTING CONDITIONS.

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**STATE OF ALASKA**  
**49TH**  
**LEGISLATURE**  
Tamara D. Hamler  
6/24/2022  
ME-9981  
**REGISTERED PROFESSIONAL ENGINEER**

21805

Revisions		
No.	Date	Description



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Date:	6/24/2022
Project Phase	
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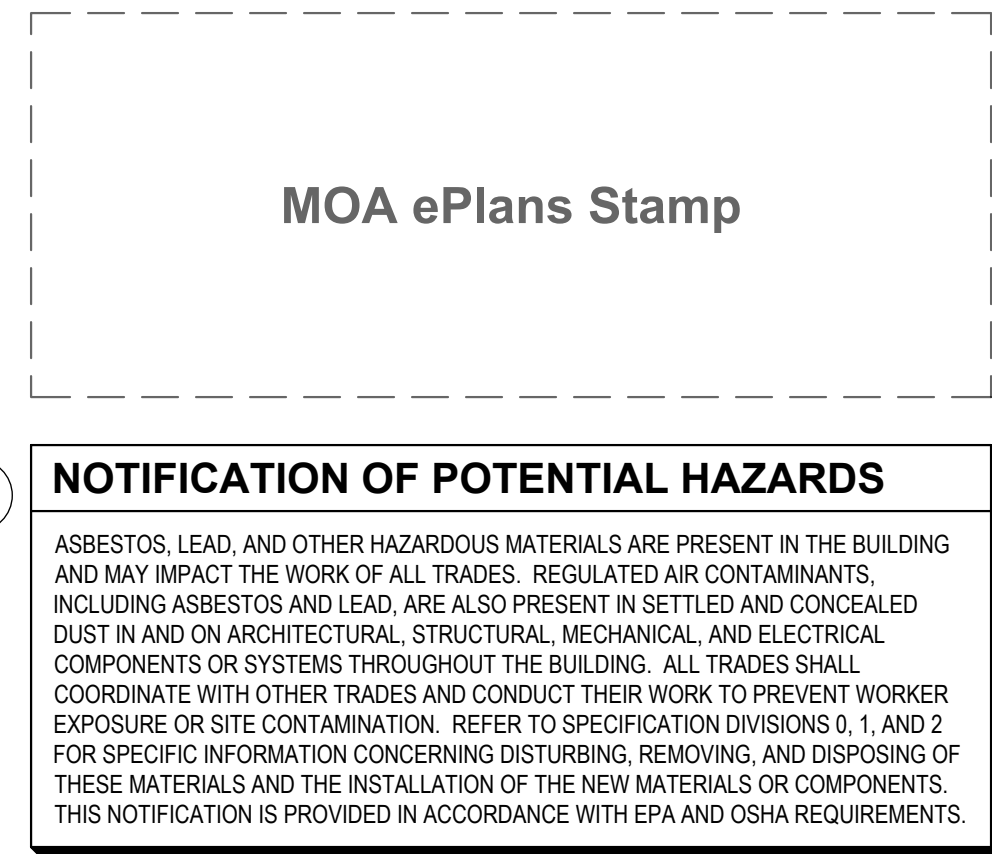
Sheet Title  
ENLARGED FAN  
ROOM PLAN -  
DEMOLITION

Sheet Number

**M108**

**1 ENLARGED FAN ROOM PLAN - DEMOLITION**





1. CONNECT EXISTING FINTURE ON FIRST AND SECOND FLOORS, TYPICAL.
2. CONNECT EXISTING UNIT HEATER, TYPICAL, SEE DETAIL 2/M503.
3. ROUTE CONDENSATE DRAIN PIPING TO INDIRECT DISCHARGE TO MOP SINK IN JANITOR RM 132.
4. WH-2 IN CABINET UNDER SINK. CONNECT TO CW(E) AND HW(E) PIPING WITH ISOLATION VALVES.
5. CONNECT EXISTING CABINET UNIT HEATER, SEE DETAIL 1/M503.
6. PROVIDE SEISMIC PIPING LOOP TO ACCOMMODATE 2" DIFFERENTIAL MOVEMENT AT SEISMIC JOINT BETWEEN GRIDS F AND G.
7. MINIMUM PIPE 3/4". TERMINAL DEVICE BRANCH PIPE IS 3/4" UNLESS OTHERWISE NOTED.
8. MOUNT THERMOSTATS AT 48" AFF.
9. PROVIDE MANUAL HIGH POINT VENTS, LOW POINT DRAIN (WITH CAPPED HOSE CONNECTIONS), AND SLOPE PIPING TO ALLOW FOR COMPLETE DRAINAGE OF THE HYDRONIC SYSTEM.
10. COORDINATE PIPE ROUTING WITH VENTILATION, FIRE PROTECTION, ELECTRICAL, AND STRUCTURAL CONDITIONS. ABOVE-CEILING CLEARANCE LIMITATIONS REQUIRE CLOSE COORDINATION BETWEEN TRADES. IN GENERAL, ROUTE PIPING TO AVOID DUCTWORK. WHERE NECESSARY, ROUTE PIPING THROUGH JOISTS AND/OR PENETRATION IN STRUCTURAL BEAMS. COORDINATE WITH STRUCTURAL ENGINEER FOR APPROVAL OF PENETRATIONS IN STRUCTURE.
11. VACUUM FINTURE ELEMENTS AND WIPE DOWN FINTURE ENCLOSURES IN AREAS OF WORK.



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21805

# ALASKA COURT SYSTEM SNOWDEN ADMIN BUILDING MECHANICAL UPGRADES

Revisions		
No.	Date	Description

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Designed by:	TBD/MPL
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AMC Project:	21805
Date:	6/24/2022

Project Phase  
**PERMIT DRAWINGS**

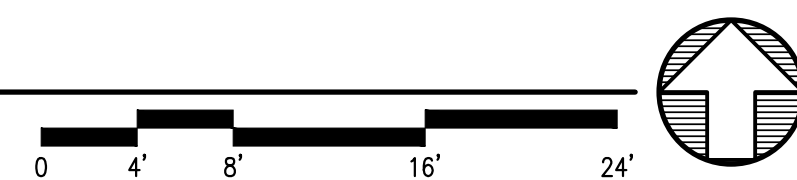
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Sheet Title  
**FIRST FLOOR PLAN -  
 PIPING**

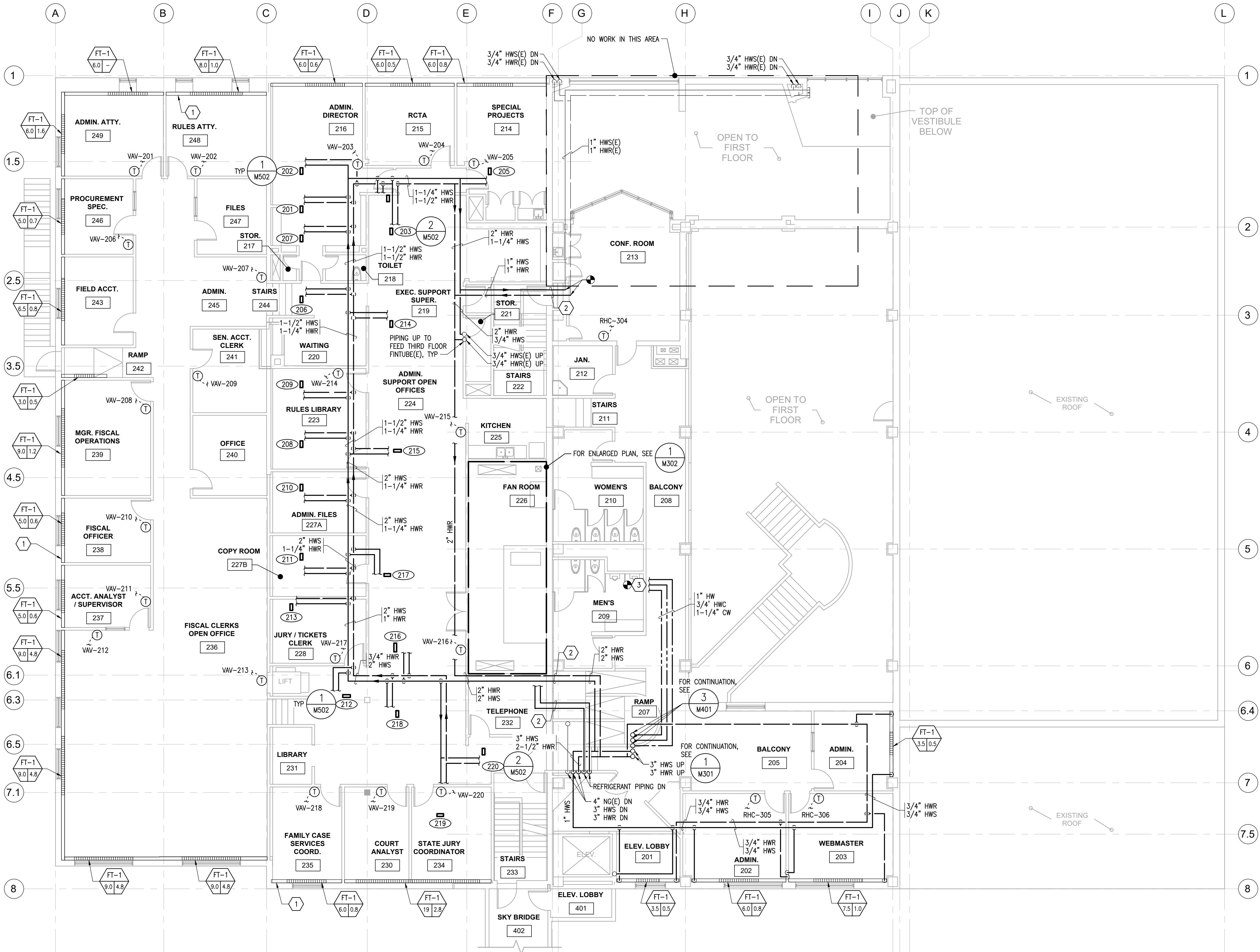
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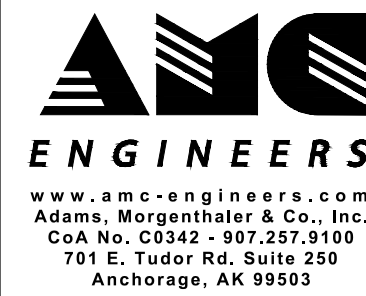
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#### NOTIFICATION OF POTENTIAL HAZARDS

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#### SHEET NOTES

1. PIPING TO FINITUBE FROM FLOOR BELOW, TYPICAL. REFER TO 1/M201.
2. PROVIDE SEISMIC PIPING LOOP TO ACCOMMODATE 2" DIFFERENTIAL MOVEMENT AT SEISMIC JOINT BETWEEN GRIDS F AND G.
3. CONNECT 1-1/4" CW, 1" HW. AND 3/4" HWC TO EXISTING PLUMBING PIPING IN TOILET ROOM.
4. BALANCE EXISTING FINITUBE TO INDICATED GPM, TYPICAL.
5. MINIMUM PIPE 3/4". TERMINAL DEVICE BRANCH PIPE IS 3/4" UNLESS OTHERWISE NOTED.
6. MOUNT THERMOSTATS AT 48" AFF.
7. PROVIDE MANUAL HIGH POINT VENTS, LOW POINT DRAINS (WITH CAPPED HOSE CONNECTIONS), AND SLOPE PIPING TO ALLOW FOR COMPLETE DRAINAGE OF THE HYDRONIC SYSTEM.
8. COORDINATE PIPE ROUTING WITH VENTILATION, FIRE PROTECTION, ELECTRICAL, AND STRUCTURAL CONDITIONS. ABOVE-CEILING CLEARANCE LIMITATIONS REQUIRE CLOSE COORDINATION BETWEEN TRADES. IN GENERAL, ROUTE PIPING TO AVOID DUCTWORK. WHERE NECESSARY, ROUTE PIPING THROUGH JOISTS AND/OR PENETRATION IN STRUCTURAL BEAMS. COORDINATE WITH STRUCTURAL ENGINEER FOR APPROVAL OF PENETRATIONS IN STRUCTURE.
9. VACUUM FINITUBE ELEMENTS AND WIPE DOWN FINITUBE ENCLOSURES IN AREAS OF WORK, TYPICAL.
10. FOR TYPICAL PIPE PENETRATION, SEE DETAIL 1/M506.



## ALASKA COURT SYSTEM SNOWDEN ADMIN BUILDING MECHANICAL UPGRADES

#### Revisions

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AMC Project: 21805

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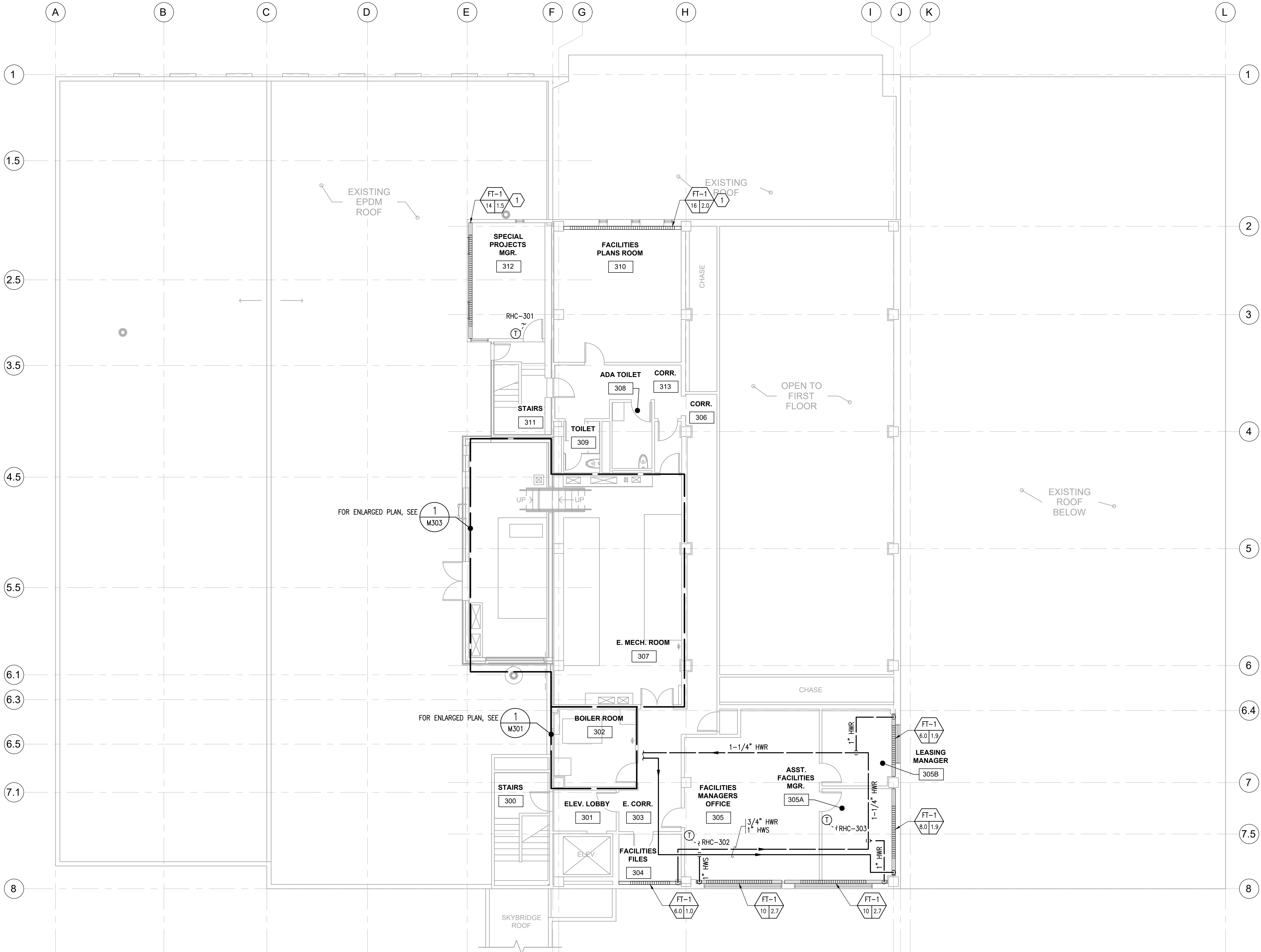
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Sheet Title  
SECOND FLOOR  
PLAN - PIPING

Sheet Number

M202

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NOTIFICATION OF POTENTIAL HAZARDS

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SHEET NOTES

1. PIPING TO FINTUBE FROM FLOOR BELOW. REFER TO 1/M202.
2. MINIMUM PIPE 3/4". TERMINAL DEVICE BRANCH PIPE IS 3/4" UNLESS OTHERWISE NOTED.
3. MOUNT THERMOSTATS AT 48" AFF.
4. PROVIDE MANUAL HIGH POINT VENTS, LOW POINT DRAINS (WITH CAPPED HOSE CONNECTIONS), AND SLOPE PIPING TO ALLOW FOR COMPLETE DRAINAGE OF THE HYDRONIC SYSTEM.
5. COORDINATE PIPE ROUTING WITH VENTILATION, FIRE PROTECTION, ELECTRICAL, AND STRUCTURAL CONDITIONS. ABOVE-CEILING CLEARANCE LIMITATIONS REQUIRE CLOSE COORDINATION BETWEEN TRADES. IN GENERAL, ROUTE PIPING TO AVOID DUCTWORK. WHERE NECESSARY, ROUTE PIPING THROUGH JOISTS AND/OR PENETRATION IN STRUCTURAL BEAMS. COORDINATE WITH STRUCTURAL ENGINEER FOR APPROVAL OF PENETRATIONS IN STRUCTURE.
6. VACUUM FINTUBE ELEMENTS AND WIPE DOWN FINTUBE ENCLOSURES IN AREAS OF WORK, TYP.
7. FOR TYPICAL PIPE PENETRATION, SEE 1/M506.
8. SEE 1/M207 FOR ROOF PLAN.

ALASKA COURT SYSTEM  
SNOWDEN ADMIN BUILDING  
MECHANICAL UPGRADES

Revisions

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Project Phase  
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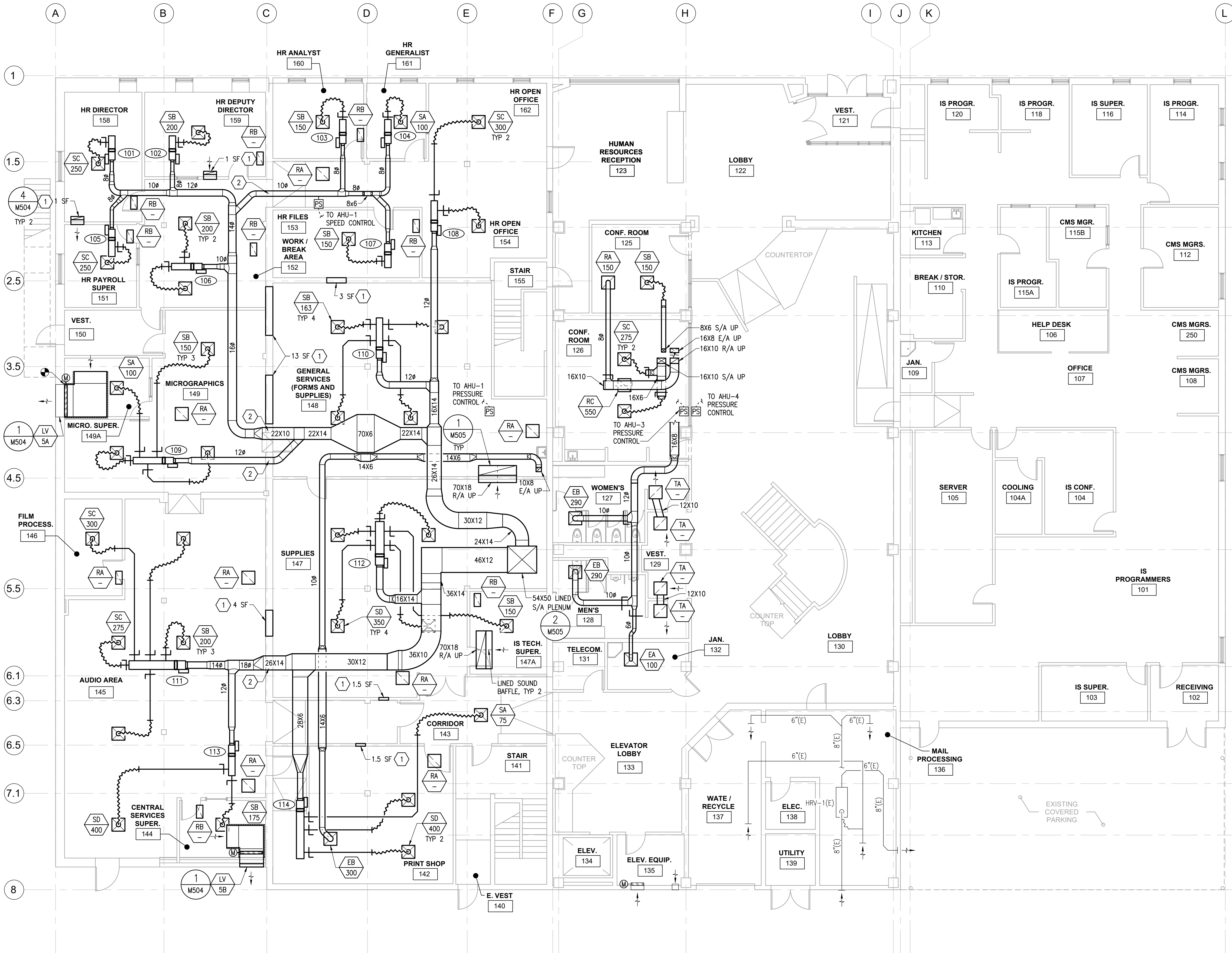
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THIRD FLOOR PLAN -  
PIPING

Sheet Number

M203



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# 1 FIRST FLOOR PLAN - VENTILATION

M204 SCALE: 1/8" = 1'-0"

0 4' 8' 16' 24'



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### NOTIFICATION OF POTENTIAL HAZARDS

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### SHEET NOTES

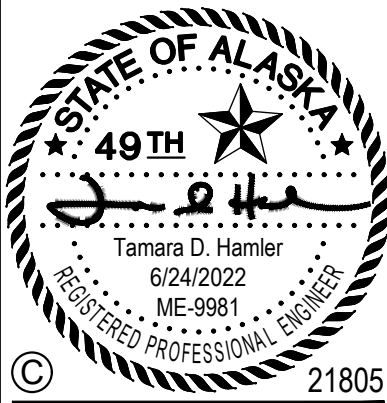
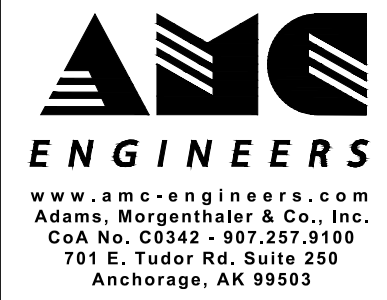
1. PROVIDE R/A TRANSFER OPENING ABOVE CEILING WITH MINIMUM FREE AREAS INDICATED.
2. PROVIDE DUCT SLEEVE AT CONCRETE WALL PENETRATION. REFER TO STRUCTURAL.
3. REFER TO VENTILATION DIAGRAM 1/M404.
4. REFER TO STANDARD LOW VELOCITY DUCT SCHEDULE FOR DUCT SIZES DOWNSTREAM OF VAV BOX.
5. FOR TYPICAL DUCT PENETRATION, SEE DETAIL 1/M506.
6. FOR TYPICAL DUCT CONSTRUCTION, SEE DETAIL 2/M506.
7. FOR TYPICAL DUCT FITTINGS, SEE DETAIL 3/M506.
8. FOR TYPICAL FLEXIBLE DUCT CONNECTION, SEE DETAIL 4/M506.
9. FOR TYPICAL E/A GRILLE CONNECTION, SEE DETAIL 5/M506.
10. FOR TYPICAL VAV BOX, SEE DETAIL 3/M505.

### STANDARD LOW VELOCITY DUCT SCHEDULE

MAX CFM	MIN DUCT DIA (INCHES)	MIN RECT DUCT AREA (SQ INCHES)	MIN FLEX DUCT DIA (INCHES)
105	6	28	6
185	8	49	8
290	10	77	10
420	12	112	12
575	14	153	14
750	16	200	16
950	18	253	18
1150	20	306	20

#### NOTES:

1. THIS SCHEDULE APPLIES TO SUPPLY AIR DUCTWORK DOWNSTREAM OF ZONE TERMINAL DEVICES (BOX, HC, OR BRANCH DUCT AS SHOWN), UNLESS OTHERWISE SIZED ON DRAWINGS.
2. PROVIDE MINIMUM OF 10 FT (MAX 12 FEET) FLEX DUCT FROM SUPPLY AIR OUTLET BACK TO OUTLET BALANCING DAMPER WITH MAX OF ONE 90 DEGREE BEND. SUPPORT FLEX DUCT WITH HANGERS TO PREVENT CRIMPING.
3. PROVIDE RIGID DUCT OUTLETS FROM ZONE TERMINAL WITH BALANCING DAMPERS.
4. RIGID DUCT SERVING MORE THAN ONE OUTLET OR INLET SHALL BE INCREASED IN SIZE IN ACCORDANCE WITH THIS SCHEDULE.
5. REFER TO SMACNA DUCT CONSTRUCTION STANDARDS FOR ACCEPTABLE CONSTRUCTION.



## ALASKA COURT SYSTEM SNOWDEN ADMIN BUILDING MECHANICAL UPGRADES

#### Revisions

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Date: 6/24/2022

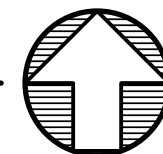
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FIRST FLOOR PLAN - VENTILATION

Sheet Number

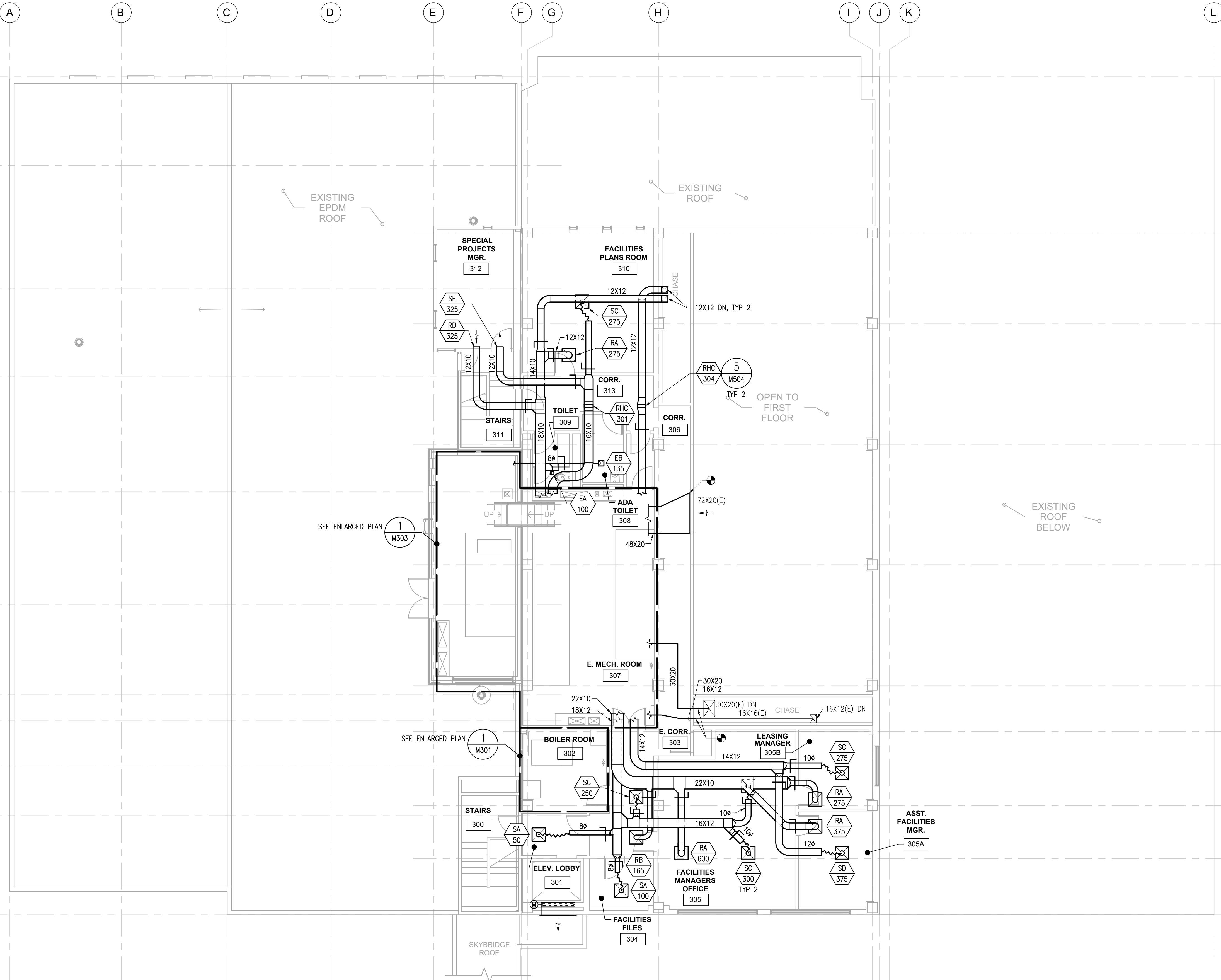
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#### NOTIFICATION OF POTENTIAL HAZARDS

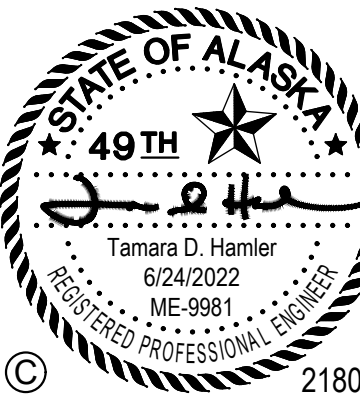
ASBESTOS, LEAD, AND OTHER HAZARDOUS MATERIALS ARE PRESENT IN THE BUILDING AND MAY IMPACT THE WORK OF ALL TRADES. REGULATED AIR CONTAMINANTS, INCLUDING ASBESTOS AND LEAD, ARE ALSO PRESENT IN SETTLED AND CONCEALED DUST IN AND ON ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL COMPONENTS OR SYSTEMS THROUGHOUT THE BUILDING. ALL TRADES SHALL COORDINATE WITH OTHER TRADES AND CONDUCT THEIR WORK TO PREVENT WORKER EXPOSURE OR SITE CONTAMINATION. REFER TO SPECIFICATION DIVISIONS 0, 1, AND 2 FOR SPECIFIC INFORMATION CONCERNING DISTURBING, REMOVING, AND DISPOSING OF THESE MATERIALS AND THE INSTALLATION OF THE NEW MATERIALS OR COMPONENTS. THIS NOTIFICATION IS PROVIDED IN ACCORDANCE WITH EPA AND OSHA REQUIREMENTS.

#### SHEET NOTES

1. REFER TO VENTILATION DIAGRAM 1/M404.
2. FOR TYPICAL DUCT PENETRATION, SEE DETAIL 1/M506.
3. FOR TYPICAL DUCT CONSTRUCTION, SEE DETAIL 2/M506.
4. FOR TYPICAL DUCT FITTINGS, SEE DETAIL 3/M506.
5. FOR TYPICAL FLEXIBLE DUCT CONNECTION, SEE DETAIL 4/M506.
6. FOR TYPICAL E/A GRILLE CONNECTION, SEE DETAIL 5/M506.
7. SEE 1/M207 FOR ROOF PLAN.



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## ALASKA COURT SYSTEM SNOWDEN ADMIN BUILDING MECHANICAL UPGRADES

#### Revisions

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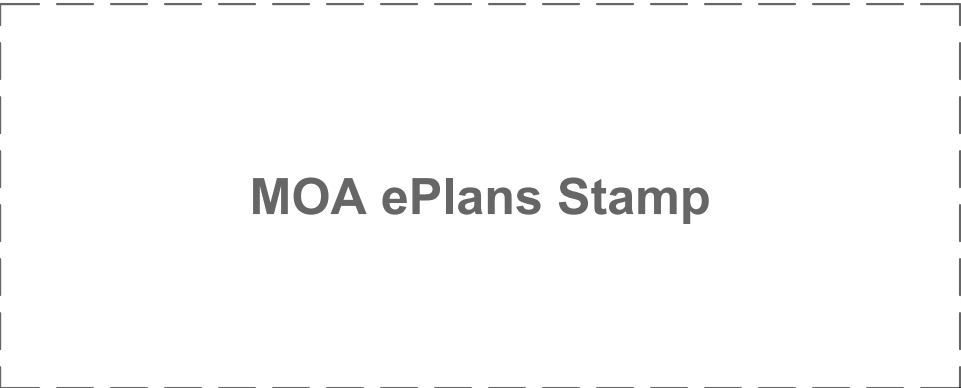
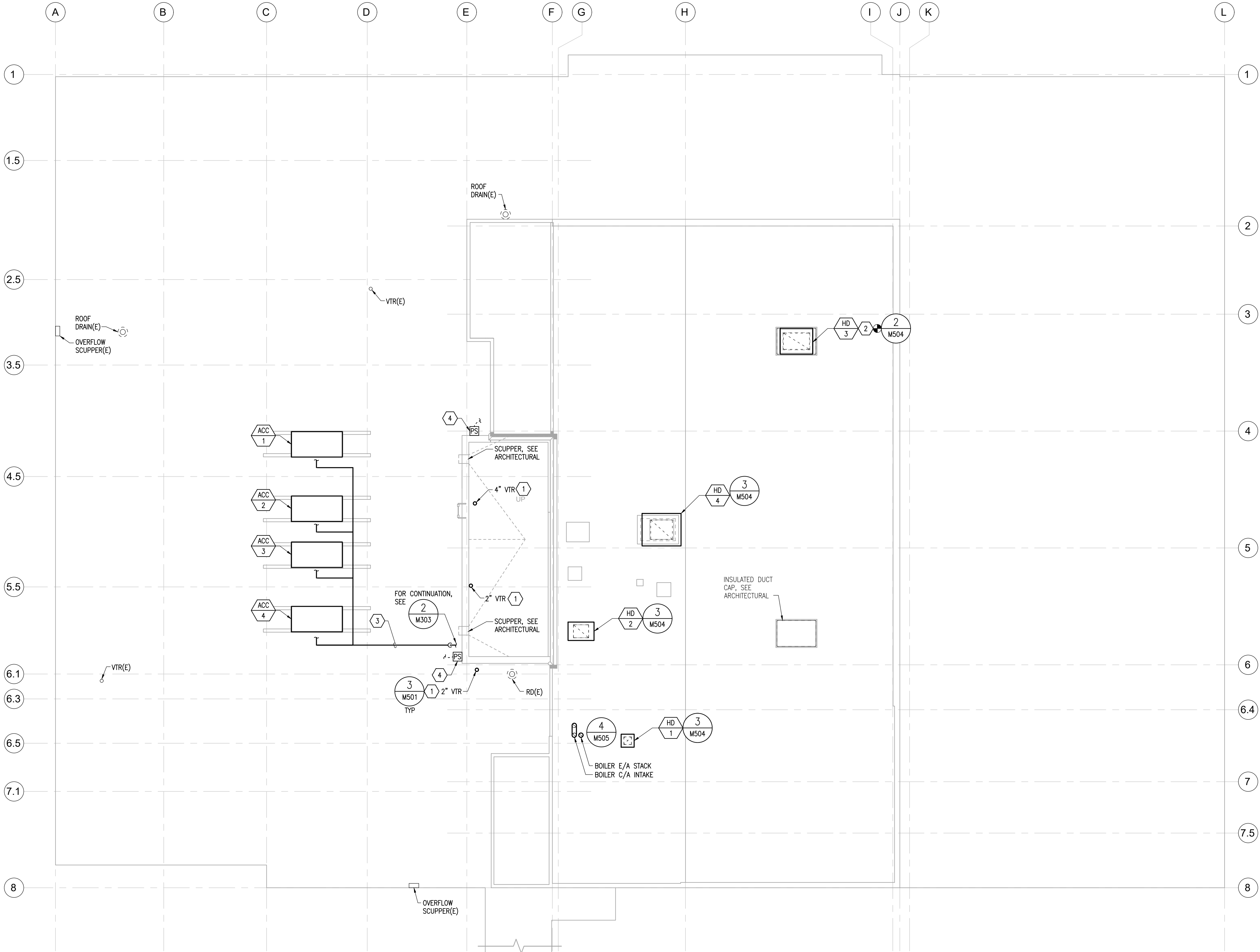
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THIRD FLOOR PLAN -  
VENTILATION

Sheet Number

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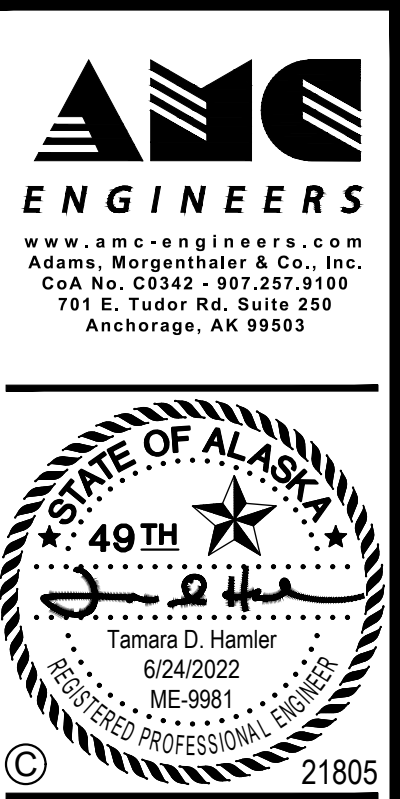
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**NOTIFICATION OF POTENTIAL HAZARDS**

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- SHEET NOTES**
1. EXTEND EXISTING VTR THROUGH FAN ROOM ROOF, TYPICAL.
  2. PROVIDE HOOD AND MOTORIZED DAMPER ON ROOF CURB. REFER TO ARCHITECTURAL
  3. REFRIGERANT PIPING STACKED VERTICALLY AND SUPPORTED FROM ROOF SURFACE WITH FIELD FABRICATED SUPPORTS ROUTED FROM ACC-1, ACC-2, ACC-3, AND ACC-4 TO CC-1, CC-2, CC-3, AND CC-4 IN FAN ROOM. PROVIDE REFRIGERANT PIPING AND VALVING IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDED INSTALLATION INSTRUCTIONS.
  4. OUTDOOR AMBIENT STATIC PRESSURE REFERENCE HEAD SENSOR, TYPICAL 2. REFER TO DETAIL 6/M506.
  5. FOR TYPICAL VENT THRU ROOF, SEE DETAIL 3/M501.



ALASKA COURT SYSTEM  
SNOWDEN ADMIN BUILDING  
MECHANICAL UPGRADES

Revisions		
No.	Date	Description

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SCALE ACCORDINGLY

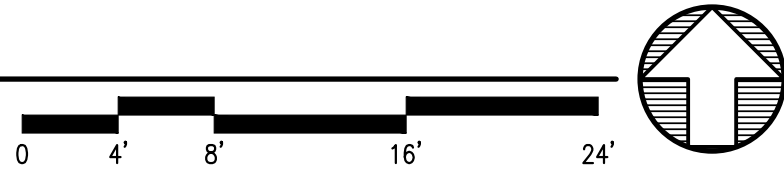
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Checked by: TDH  
AMC Project: 21805  
Date: 6/24/2022  
Project Phase  
**PERMIT DRAWINGS**

Sheet Title  
ROOF PLAN -  
MECHANICAL

Sheet Number  
**M207**

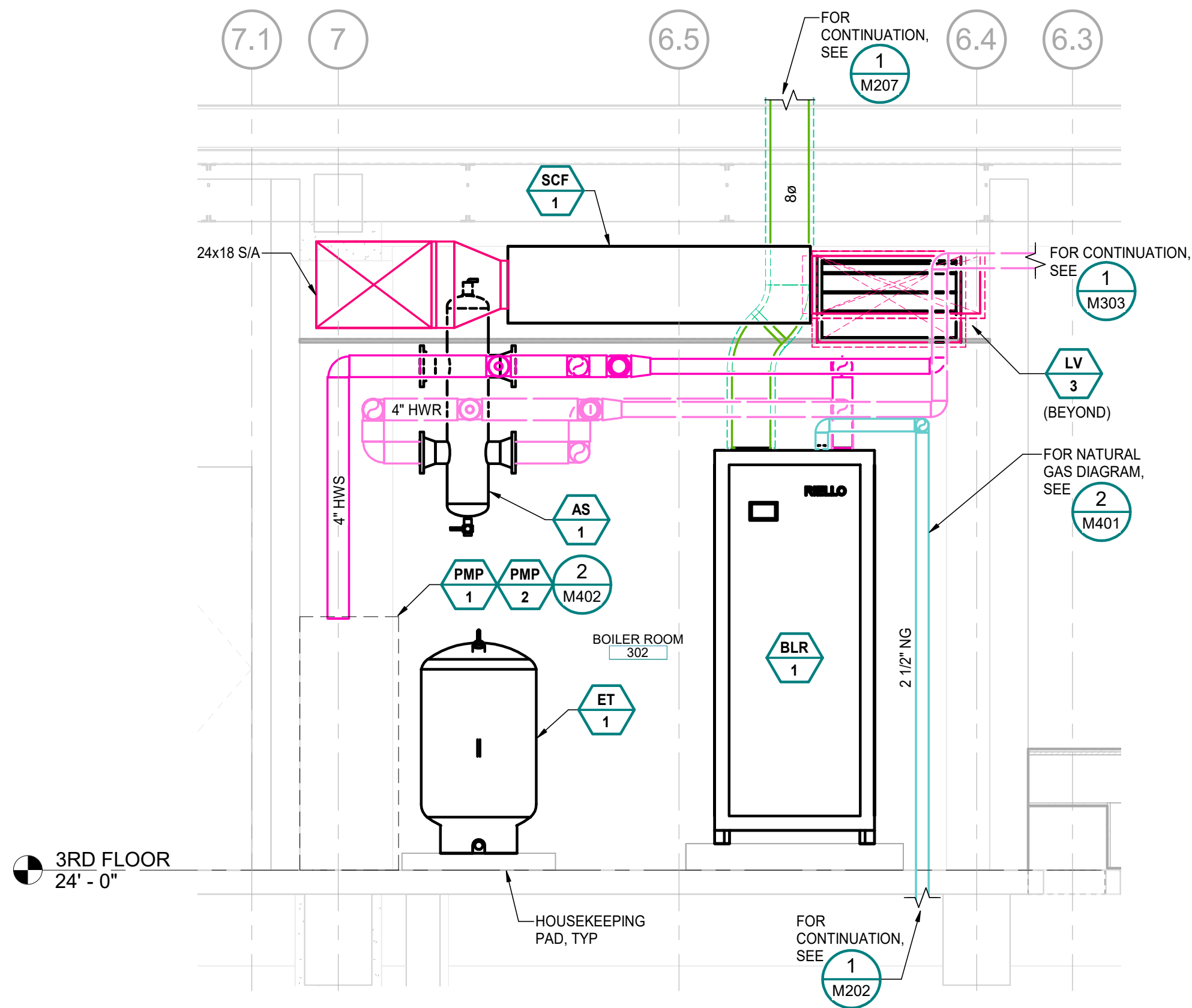
**1 ROOF PLAN - MECHANICAL**

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

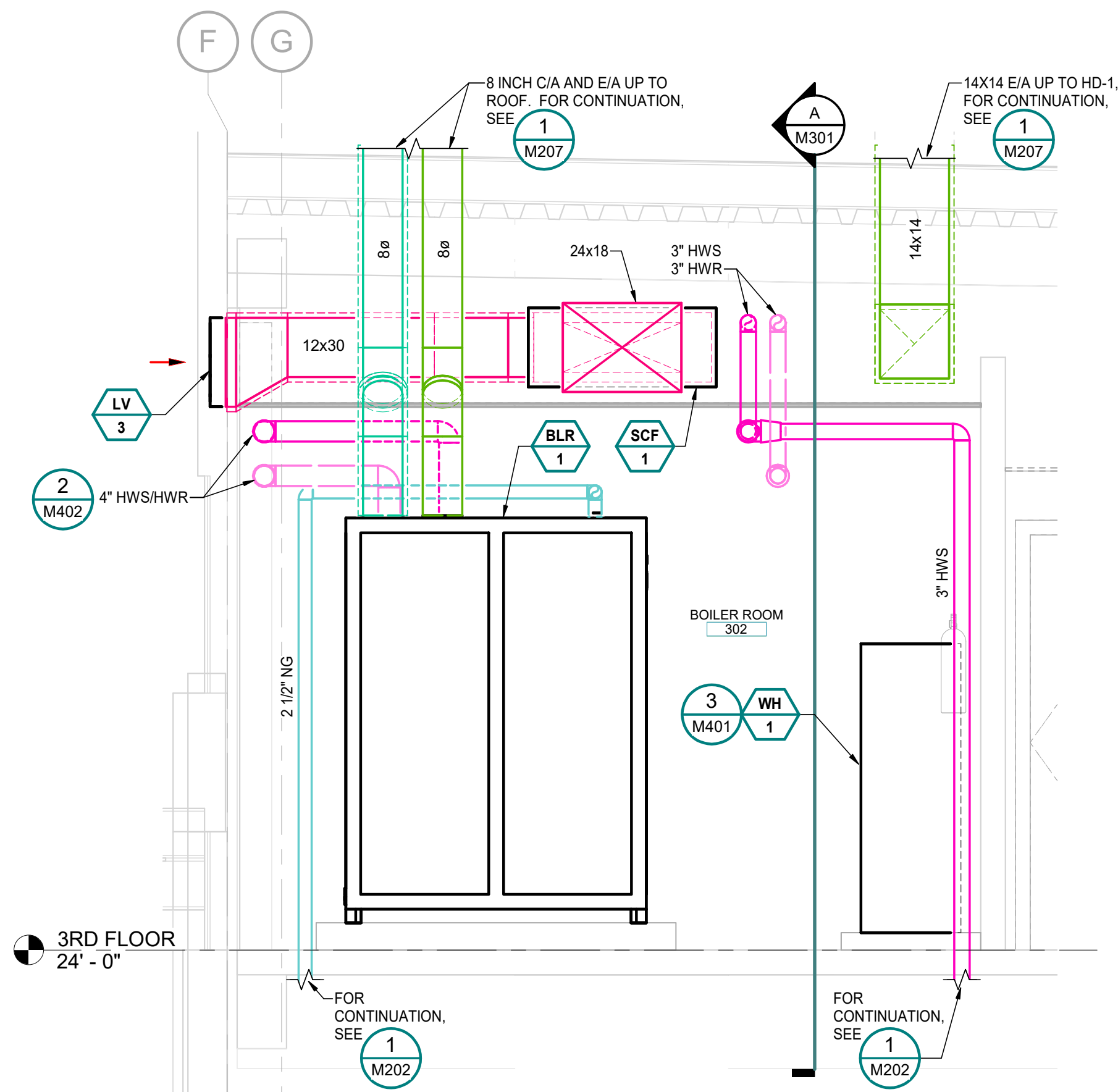




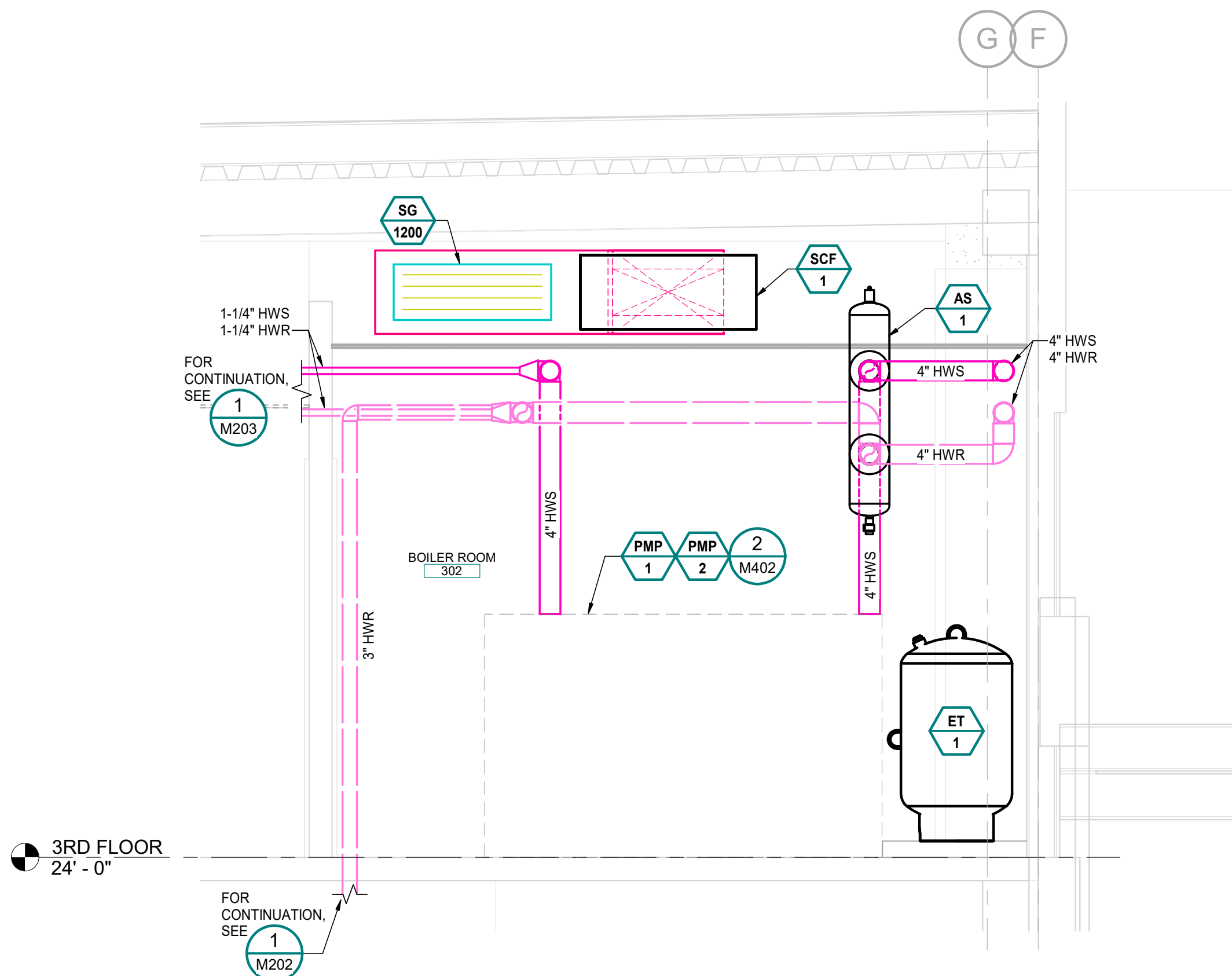
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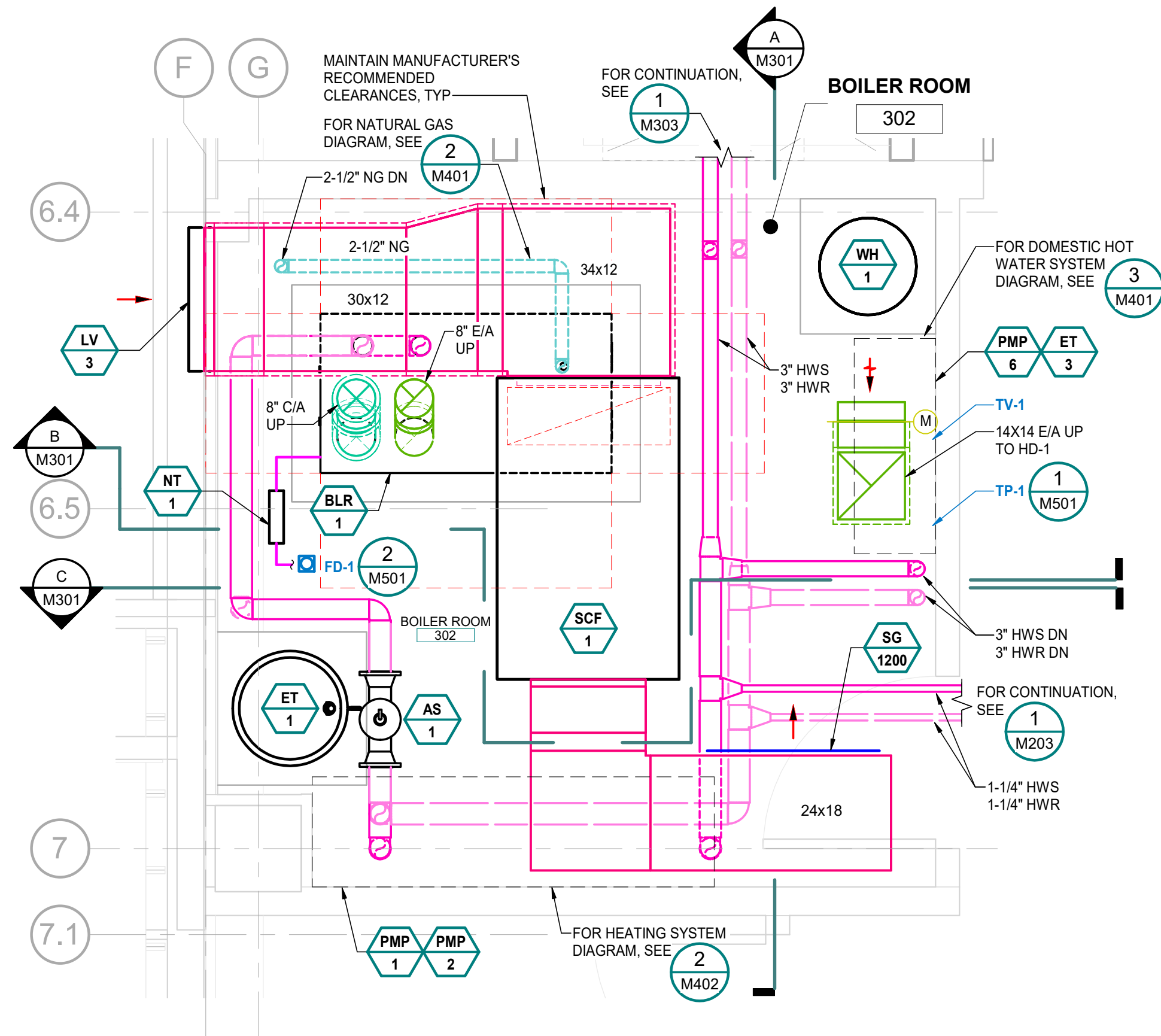
**A BOILER SECTION - WEST**  
M301 Scale: 1/2" = 1'-0"



**B BOILER SECTION - NORTH**  
M301 Scale: 1/2" = 1'-0"



**C BOILER SECTION - SOUTH**  
M301 Scale: 1/2" = 1'-0"



**1 ENLARGED BOILER ROOM PLAN**  
M301 Scale: 1/2" = 1'-0"

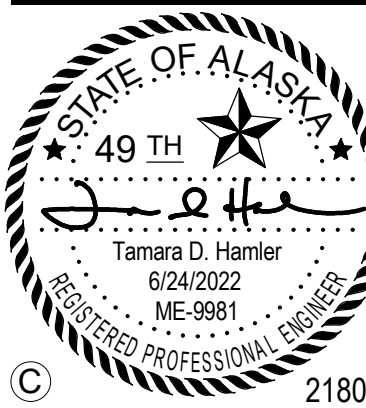
MOA ePlan Stamp

**NOTIFICATION OF POTENTIAL HAZARDS**

ASBESTOS, LEAD, AND OTHER HAZARDOUS MATERIALS ARE PRESENT IN THE BUILDING AND MAY IMPACT THE WORK OF ALL TRADES. REGULATED AIR CONTAMINANTS, INCLUDING ASBESTOS AND LEAD, ARE ALSO PRESENT IN SETTLED AND CONCEALED DUST IN AND ON ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL COMPONENTS OR SYSTEMS THROUGHOUT THE BUILDING. ALL TRADES SHALL COORDINATE WITH OTHER TRADES AND CONDUCT THEIR WORK TO PREVENT WORKER EXPOSURE OR SITE CONTAMINATION. REFER TO SPECIFICATION DIVISIONS 0, 1, AND 2 FOR SPECIFIC INFORMATION CONCERNING DISTURBING, REMOVING, AND DISPOSING OF THESE MATERIALS AND THE INSTALLATION OF THE NEW MATERIALS OR COMPONENTS. THIS NOTIFICATION IS PROVIDED IN ACCORDANCE WITH EPA AND OSHA REQUIREMENTS.

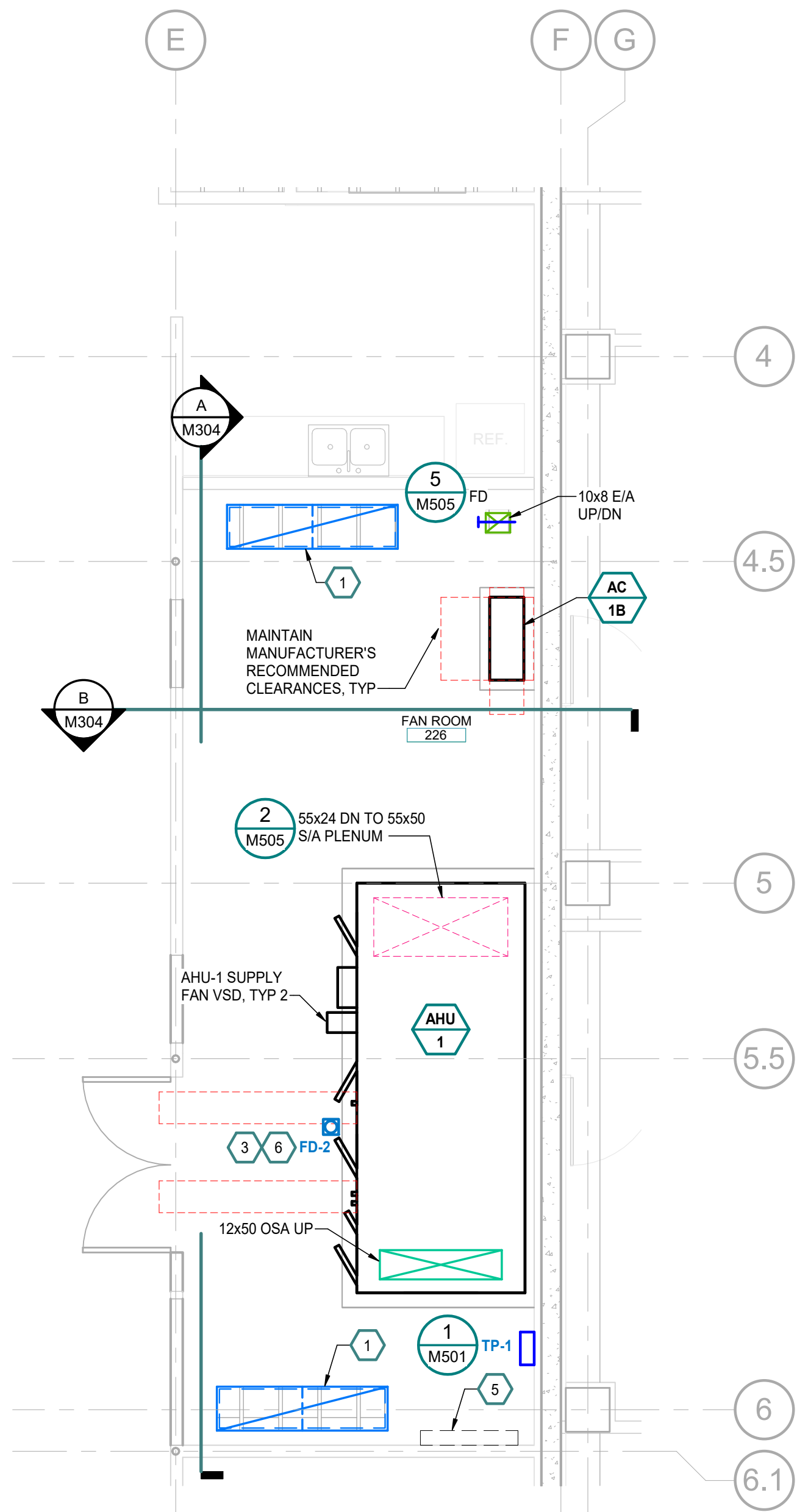
**SHEET NOTES**

1. MINIMUM PIPE SIZE IS 3/4". TERMINAL DEVICE BRANCH PIPE IS 3/4", UNLESS OTHERWISE NOTED.
2. PROVIDE MANUAL HIGH POINT VENTS, LOW POINT DRAINS (WITH CAPPED HOSE CONNECTIONS), AND SLOPE PIPING TO ALLOW FOR COMPLETE DRAINAGE OF THE HYDRONIC SYSTEM.
3. FOR TYPICAL PIPE AND DUCT PENETRATION, SEE DETAIL 1/M506.

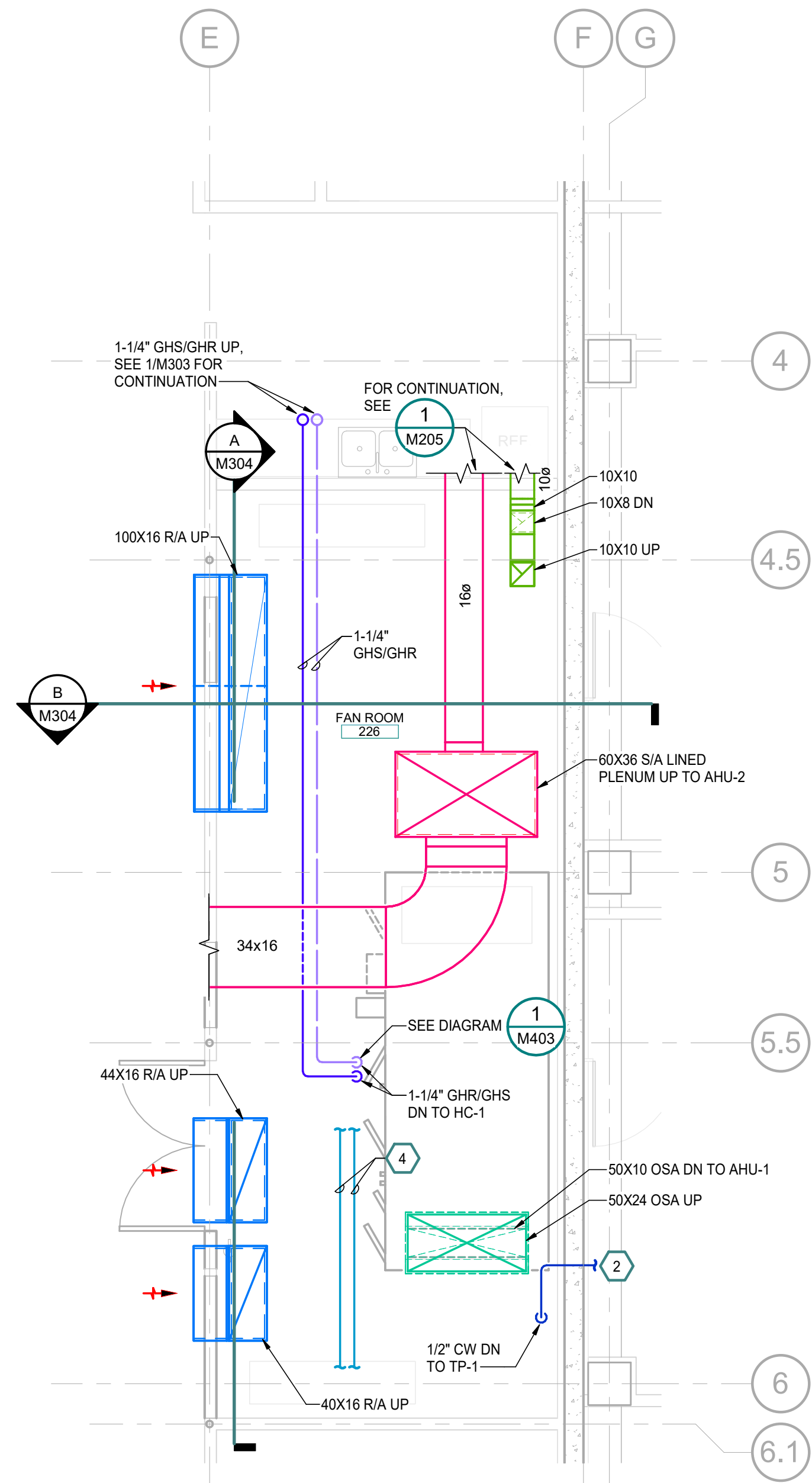


**ALASKA COURT SYSTEM  
SNOWDEN ADMIN BUILDING  
MECHANICAL UPGRADES**

Revisions		
No.	Date	Description
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Designed by:	TBD/MPL	
Checked by:	TDH	
AMC Project:	21805	
Date:	6/24/2022	
Project Phase	PERMIT DRAWINGS	
Sheet Title	ENLARGED BOILER ROOM	
Sheet Number	M301	



**1 ENLARGED - SECOND FLOOR FANROOM (LOWER)**  
M302 Scale: 1/4" = 1'-0"



**2 ENLARGED - SECOND FLOOR FANROOM (UPPER)**  
M302 Scale: 1/4" = 1'-0"

## MOA ePlan Stamp

## NOTIFICATION OF POTENTIAL HAZARDS

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## SHEET NOTES

1. 70x18 R/A DUCT WITH UNID SOUND BAFFLE. TERMINATE DUCT AT 3' AFF WITH 1/2" MESH SCREEN, TYP 2.
2. CONNECT 1/2" CW PIPE TO CW(E) IN ADJACENT TOILET ROOM.
3. FIELD ROUTE AND CONNECT FD-2 WASTE AND VENT PIPING TO DWV(E) PIPING IN CEILING BELOW. CONNECT P-TRAP TO TP-1 IN FAN ROOM 226.
4. FIELD ROUTE REFRIGERATION PIPING TO/FROM AC-1A IN TELECOM 131 TO AC-1B IN FAN ROOM 226.
5. RELOCATE EXISTING BAS PANEL. REFER TO ELECTRICAL.
6. PROVIDE 12X24 SHEET METAL DRAIN PAN WITH FLOOR DRAIN, SEE DETAIL 4/M501.
7. MINIMUM PIPE SIZE IS 3/4". TERMINAL DEVICE BRANCH PIPE IS 3/4", UNLESS OTHERWISE NOTED.
8. PROVIDE MANUAL HIGH POINT VENTS, LOW POINT DRAINS (WITH CAPPED HOSE CONNECTIONS), AND SLOPE PIPING TO ALLOW FOR COMPLETE DRAINAGE OF THE HYDRONIC SYSTEM.
9. FOR TYPICAL PIPE AND DUCT PENETRATION, SEE DETAIL 1/M506.
10. PROVIDE SEISMIC PIPING LOOP FOR PIPING TO ACCOMMODATE 2" DIFFERENTIAL MOVEMENT AT SEISMIC JOINT BETWEEN GRIDS F AND G.

Revisions		
No.	Date	Description

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Designed by: TBD/MPL

Checked by: TDH

AMC Project:	21805
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Date: 6/24/2022

Project Phase  
**PERMIT DRAWINGS**

Sheet Title  
ENLARGED SECOND  
FLOOR FANROOM  
PLAN

Sheet Number

## M302





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## SHEET NOTES

- 100X16 R/A DUCT WITH LINED SOUND Baffle. TERMINATE DUCT AT 3' AFF WITH 1/2" MESH SCREEN.
- SPRINKLER MAIN TO REMAIN. PROVIDE SPRINKLER COVERAGE TO FAN ROOM AND BOILER ROOM.
- LOCATE DUCT MOUNTED REHEAT COIL AT 48" AFF, TYP 4. REFER TO DETAIL 5/M504.
- PROVIDE FLEXIBLE DUCT CONNECTION TO ACCOMMODATE 2" DIFFERENTIAL MOVEMENT AT SEISMIC JOINT BETWEEN GRIDS F AND G.
- CONNECT 1/2" CW PIPE TO CW(E) IN ADJACENT TOILET ROOM.
- FIELD ROUTE AND CONNECT FLOOR DRAIN WASTE AND VENT PIPING TO DWV(E) PIPING IN CEILING BELOW. CONNECT P-TRAP TO TP-1 IN NEW MECH. ROOM 307A.
- RELOCATE EXISTING BAS PANEL. REFER TO ELECTRICAL.
- PROVIDE 24" WIDE ACCESS DOOR.
- TERMINATE DUCT AT 3' AFF WITH 1/2" MESH SCREEN.
- GHS/GHR PIPING SHOWN OFFSET FOR CLARITY. ROUTE PIPING VERTICALLY ALONG WALL.
- PROVIDE 12X24 SHEET METAL DRAIN PAN WITH FLOOR DRAIN, SEE DETAIL 4/M501.
- PROVIDE 112X60 SHEET METAL DRAIN PAN WITH FLOOR DRAIN FOR OSA INTAKE PLENUM, SEE DETAIL 4/M501.
- REFRIGERANT PIPING ROUTED FROM ACC-1, ACC-2, ACC-3, AND ACC-4 TO CC-1, CC-2, CC-3, AND CC-4 IN FAN ROOM. PROVIDE REFRIGERANT PIPING AND VALVING IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDED INSTALLATION INSTRUCTIONS.
- PROVIDE SEISMIC PIPING LOOP FOR PIPING TO ACCOMMODATE 2" DIFFERENTIAL MOVEMENT AT SEISMIC JOINT BETWEEN GRIDS F AND G.
- MINIMUM PIPE SIZE IS 3/4". TERMINAL DEVICE BRANCH PIPE IS 3/4", UNLESS OTHERWISE NOTED.
- PROVIDE MANUAL HIGH POINT VENTS, LOW POINT DRAINS (WITH CAPPED HOSE CONNECTIONS), AND SLOPE PIPING TO ALLOW FOR COMPLETE DRAINAGE OF THE HYDRONIC SYSTEM.
- THE THIRD FLOOR FLOOR ASSEMBLY IS A ONE HOUR FIRE BARRIER EAST OF GRIDLINE G. PROVIDE FIRESTOPPING AT THIRD FLOOR PENETRATIONS TO MAINTAIN REQUIRED FIRE RATED ASSEMBLY.
- GHS/GHR PIPING SHOWN ON LOWER PLAN FOR CLARITY. SEE DIAGRAM 1/M403.
- FOR TYPICAL PIPE AND DUCT PENETRATION, SEE DETAIL 1/M506.

## MOA ePlan Stamp

### NOTIFICATION OF POTENTIAL HAZARDS

ASBESTOS, LEAD, AND OTHER HAZARDOUS MATERIALS ARE PRESENT IN THE BUILDING AND MAY IMPACT THE WORK OF ALL TRADES. REGULATED AIR CONTAMINANTS, INCLUDING ASBESTOS AND LEAD, ARE ALSO PRESENT IN SETTLED AND CONCEALED DUST IN AND ON ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL COMPONENTS OR SYSTEMS THROUGHOUT THE BUILDING. ALL TRADES SHALL COORDINATE WITH OTHER TRADES AND CONDUCT THEIR WORK TO PREVENT WORKER EXPOSURE OR SITE CONTAMINATION. REFER TO SPECIFICATION DIVISIONS 0, 1, AND 2 FOR SPECIFIC INFORMATION CONCERNING DISTURBING, REMOVING, AND DISPOSING OF THESE MATERIALS AND THE INSTALLATION OF THE NEW MATERIALS OR COMPONENTS. THIS NOTIFICATION IS PROVIDED IN ACCORDANCE WITH EPA AND OSHA REQUIREMENTS.



## ALASKA COURT SYSTEM SNOWDEN ADMIN BUILDING MECHANICAL UPGRADES

### Revisions

No.	Date	Description

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AMC Project: 21805

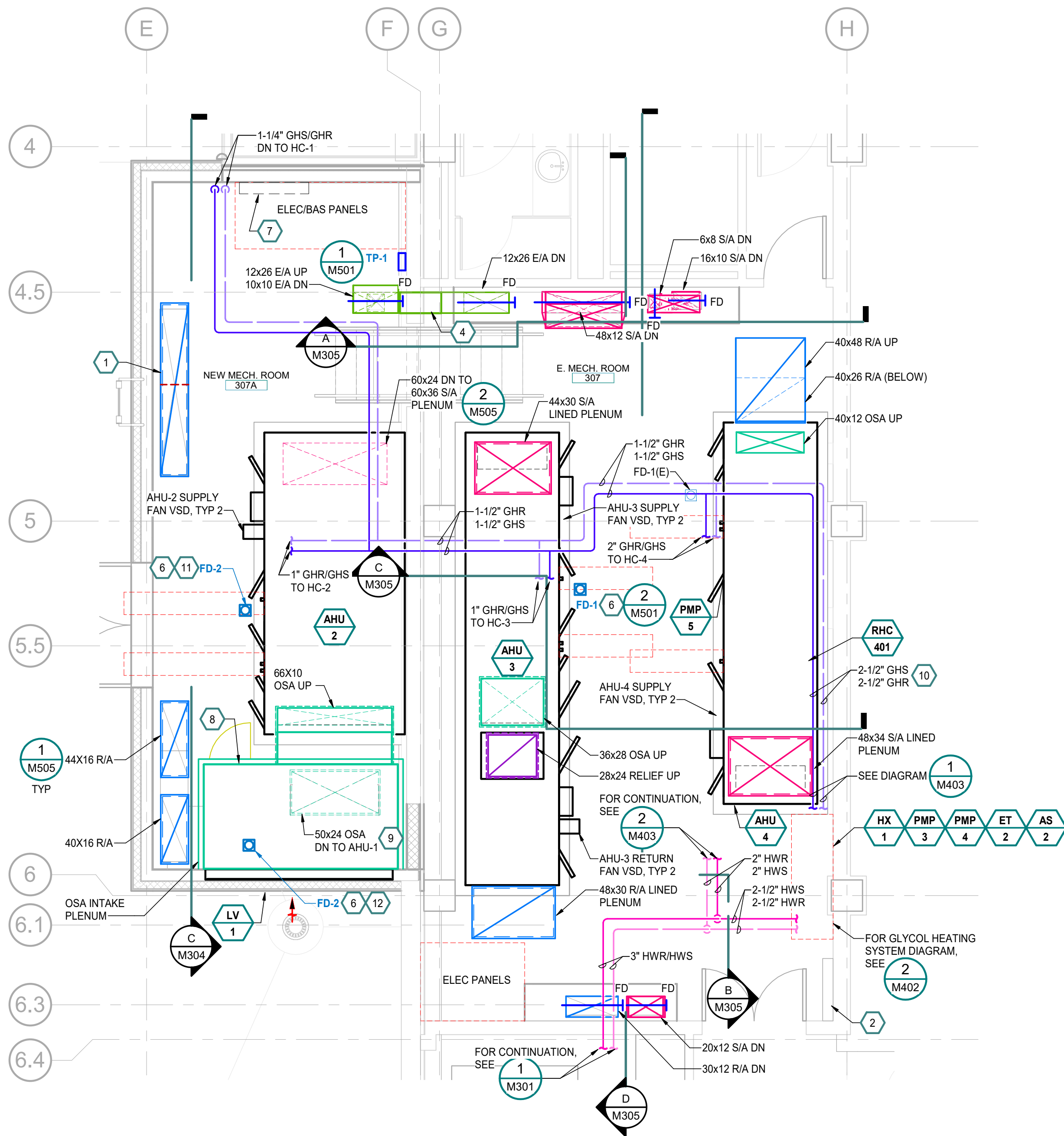
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Project Phase  
**PERMIT DRAWINGS**

Sheet Title  
**ENLARGED THIRD  
FLOOR FANROOM  
PLAN**

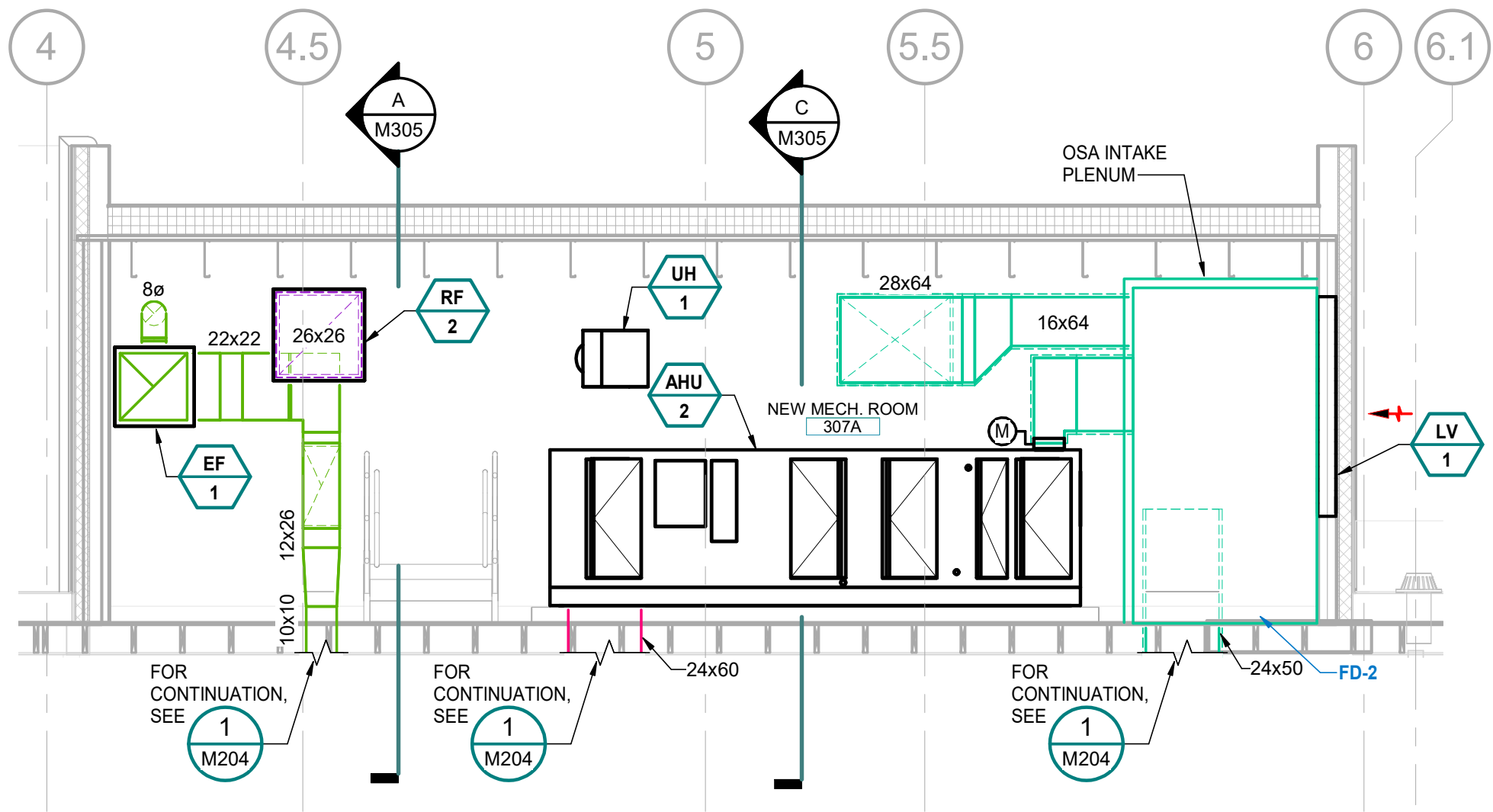
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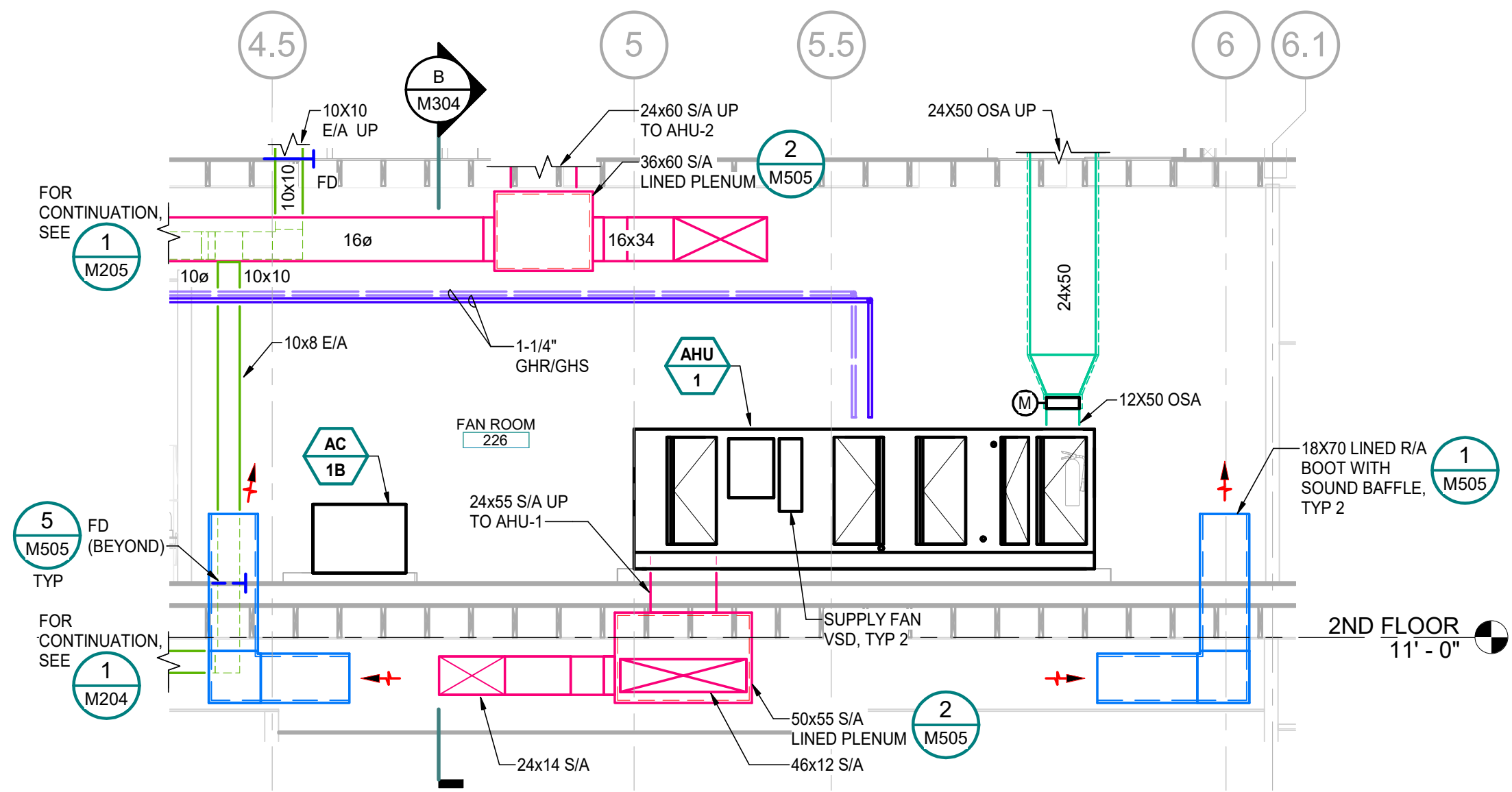




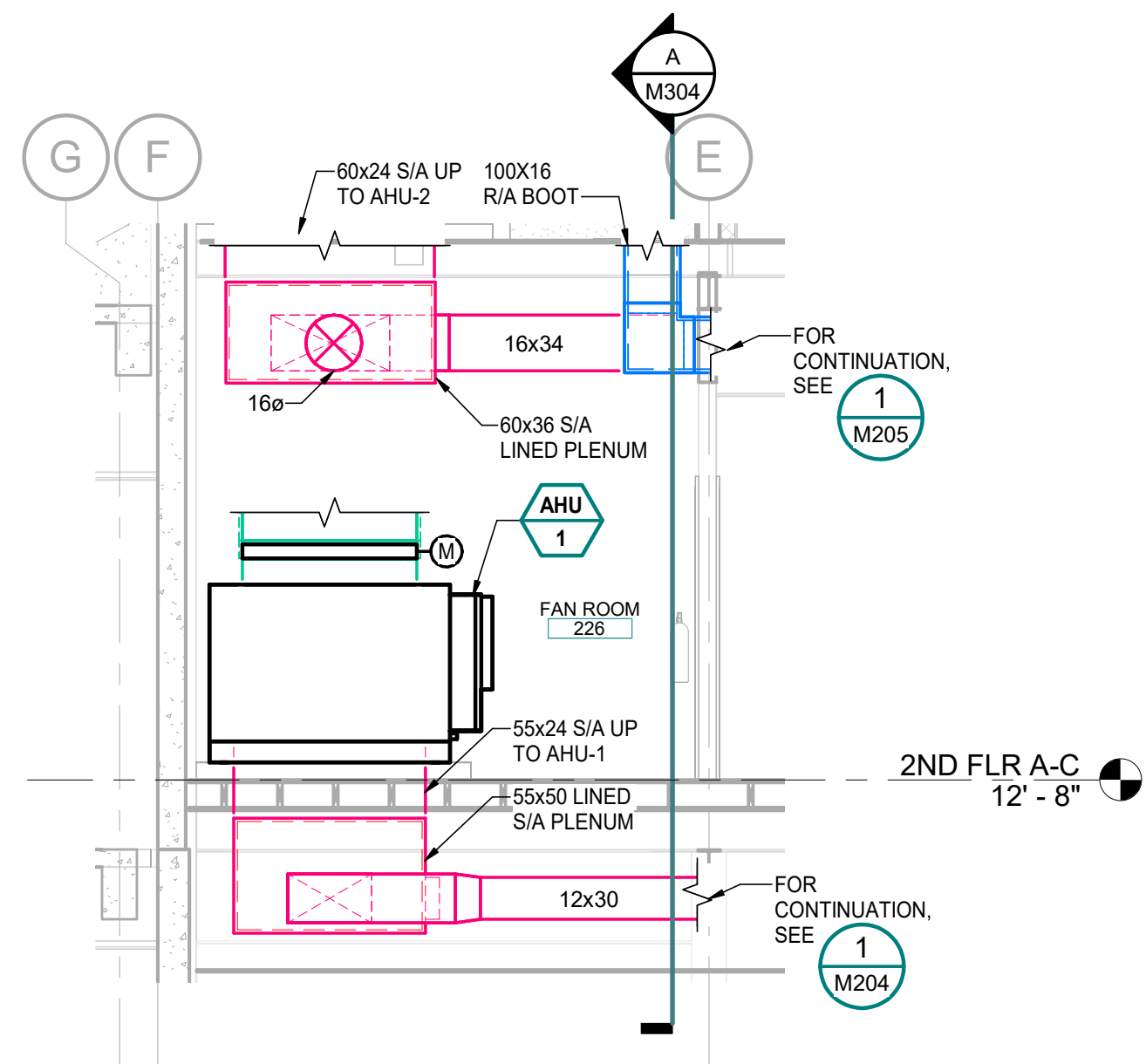
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**C SECTION - AHU-2 - LOOKING EAST**  
M304 Scale: 1/4" = 1'-0"



**A SECTION - AHU-1 - LOOKING EAST**  
M304 Scale: 1/4" = 1'-0"



**B SECTION - AHU-1 - LOOKING SOUTH**  
M304 Scale: 1/4" = 1'-0"

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**NOTIFICATION OF POTENTIAL HAZARDS**

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**SHEET NOTES**

- 1 PROVIDE FIRE DAMPER AT ARCHITECTURAL "DOG HOUSE" DUCT PENETRATION. REFER TO ARCHITECTURAL, TYPICAL.



© 21805

**ALASKA COURT SYSTEM  
SNOWDEN ADMIN BUILDING  
MECHANICAL UPGRADES**

Revisions		
No.	Date	Description

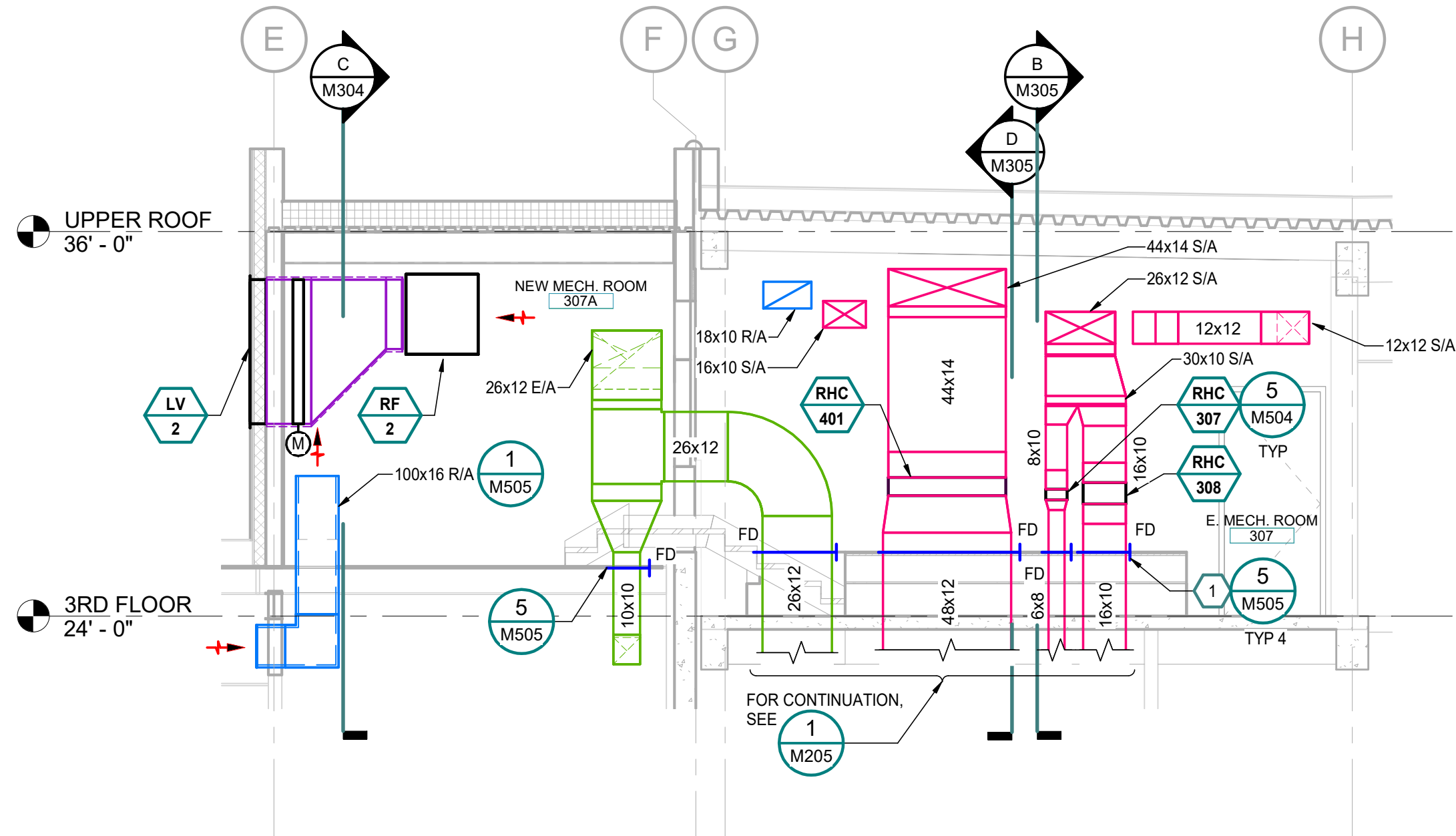
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AMC Project: 21805  
Date: 6/24/2022  
Project Phase  
**PERMIT DRAWINGS**

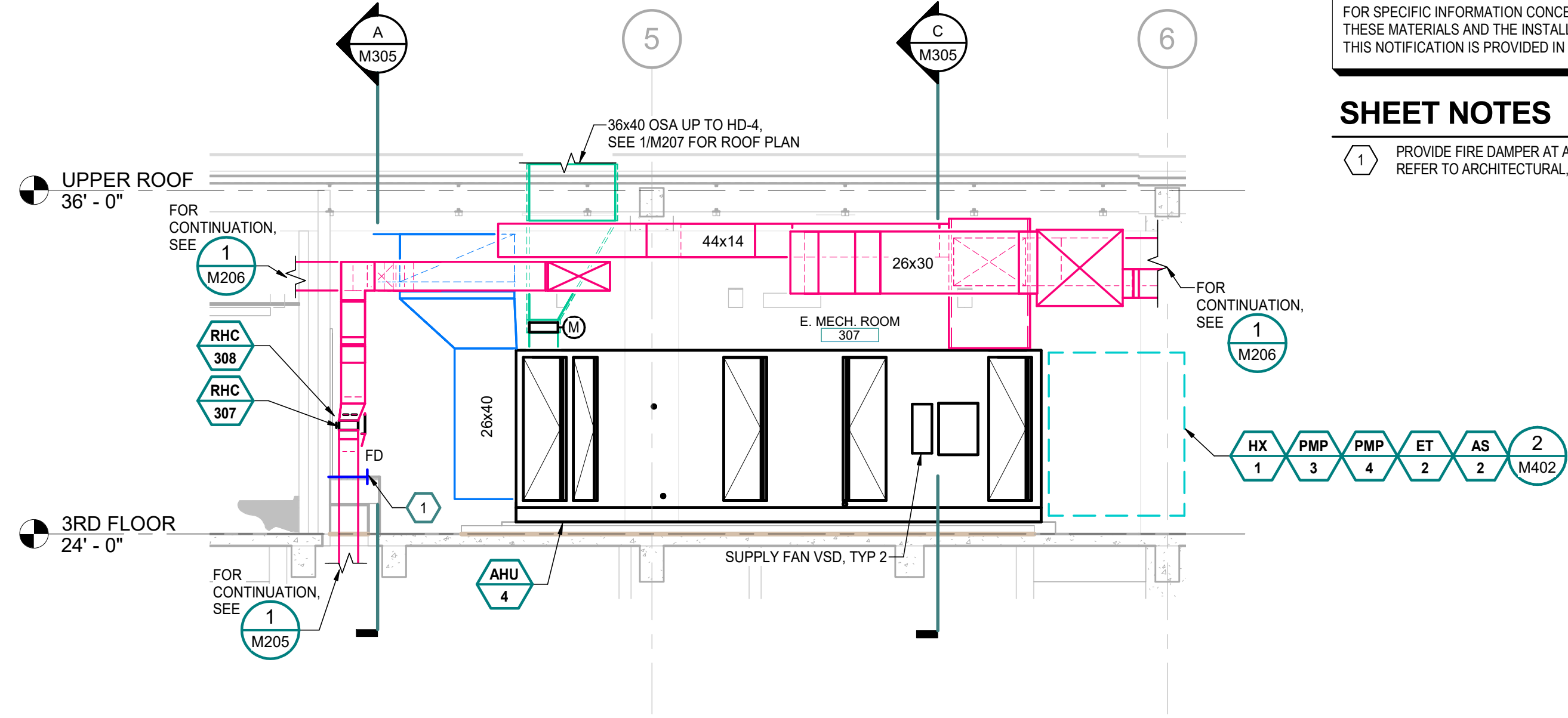
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SECOND FLOOR  
FANROOM SECTIONS

Sheet Number  
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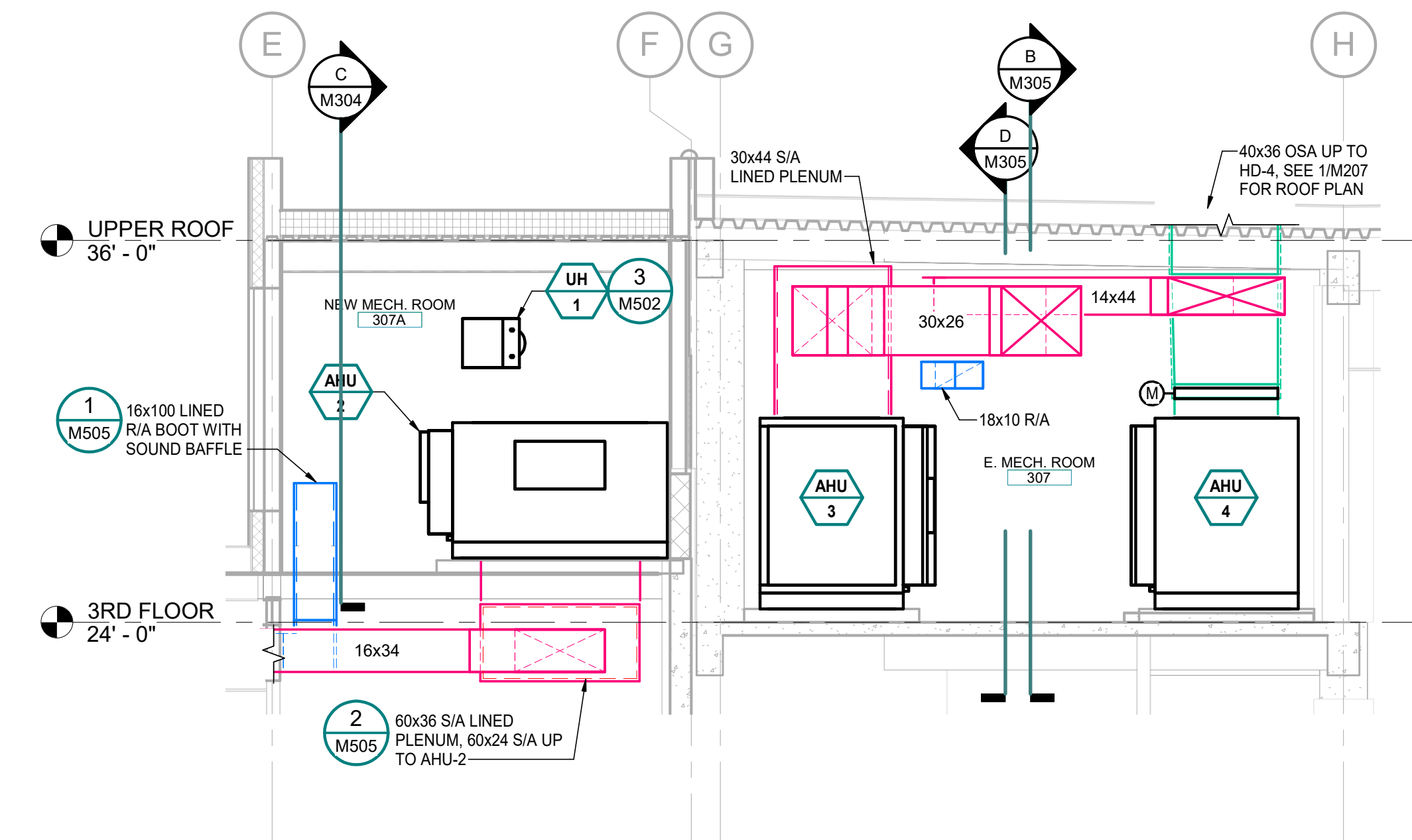
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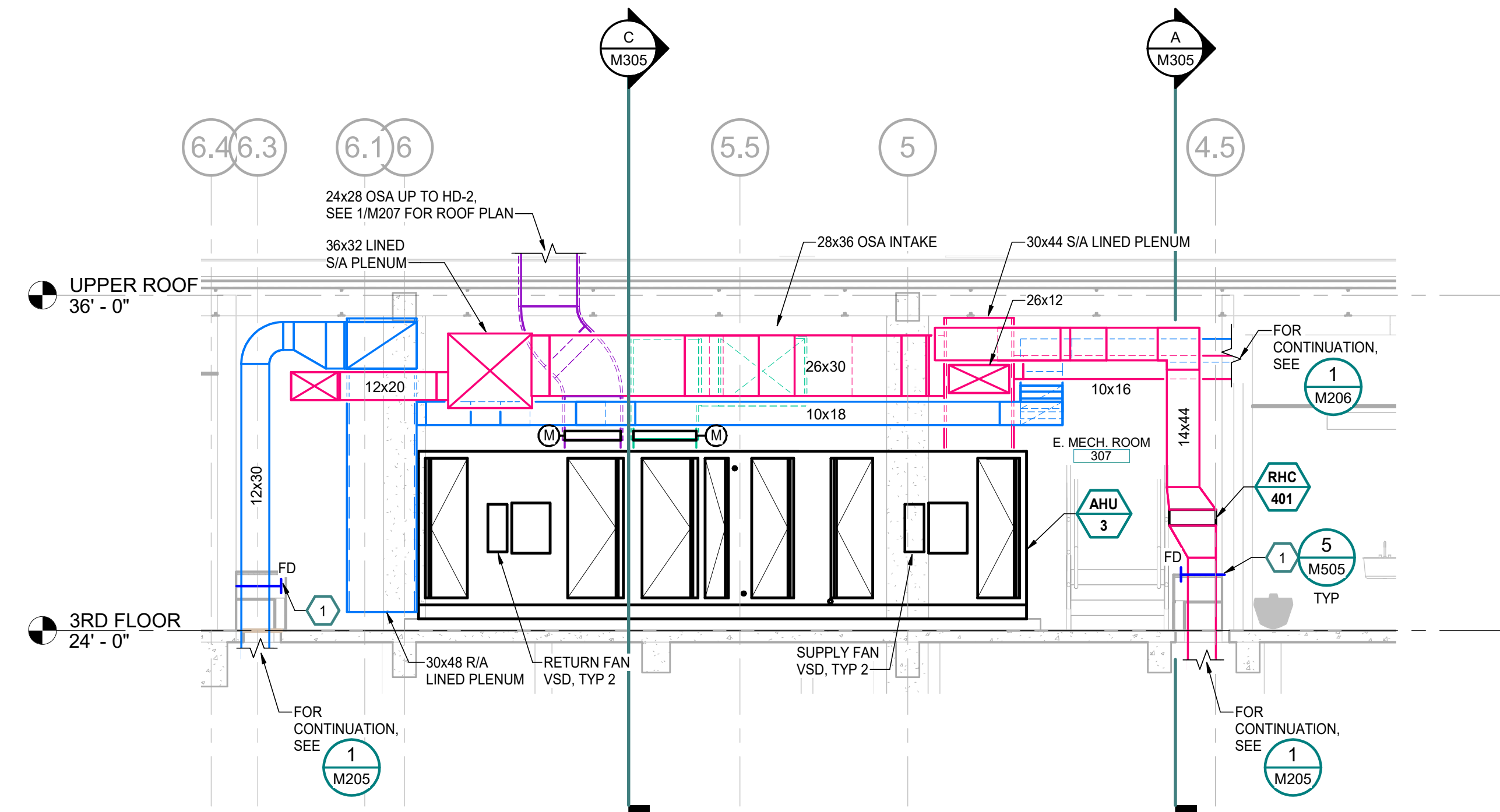
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**B SECTION - AHU-4**  
M305 Scale: 1/4" = 1'-0"



**C SECTION - LOOKING NORTH**  
M305 Scale: 1/4" = 1'-0"



**D SECTION - AHU-3**  
M305 Scale: 1/4" = 1'-0"

MOA ePlan Stamp

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**SHEET NOTES**

- 1 PROVIDE FIRE DAMPER AT ARCHITECTURAL "DOG HOUSE" DUCT PENETRATION. REFER TO ARCHITECTURAL, TYPICAL.

**ALASKA COURT SYSTEM  
SNOWDEN ADMIN BUILDING  
MECHANICAL UPGRADES**

Revisions		
No.	Date	Description

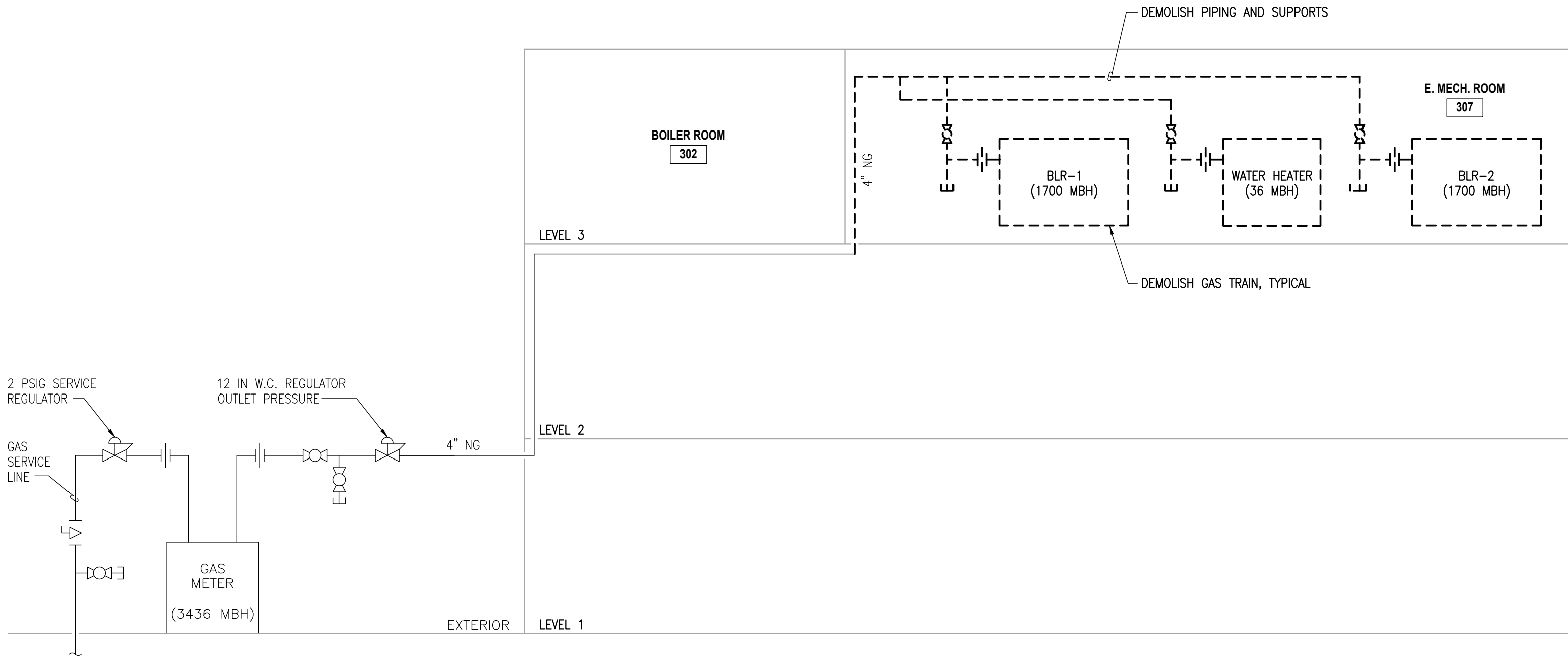
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AMC Project: 21805  
Date: 6/24/2022  
Project Phase  
**PERMIT DRAWINGS**

Sheet Title  
**THIRD FLOOR  
FANROOM SECTIONS**

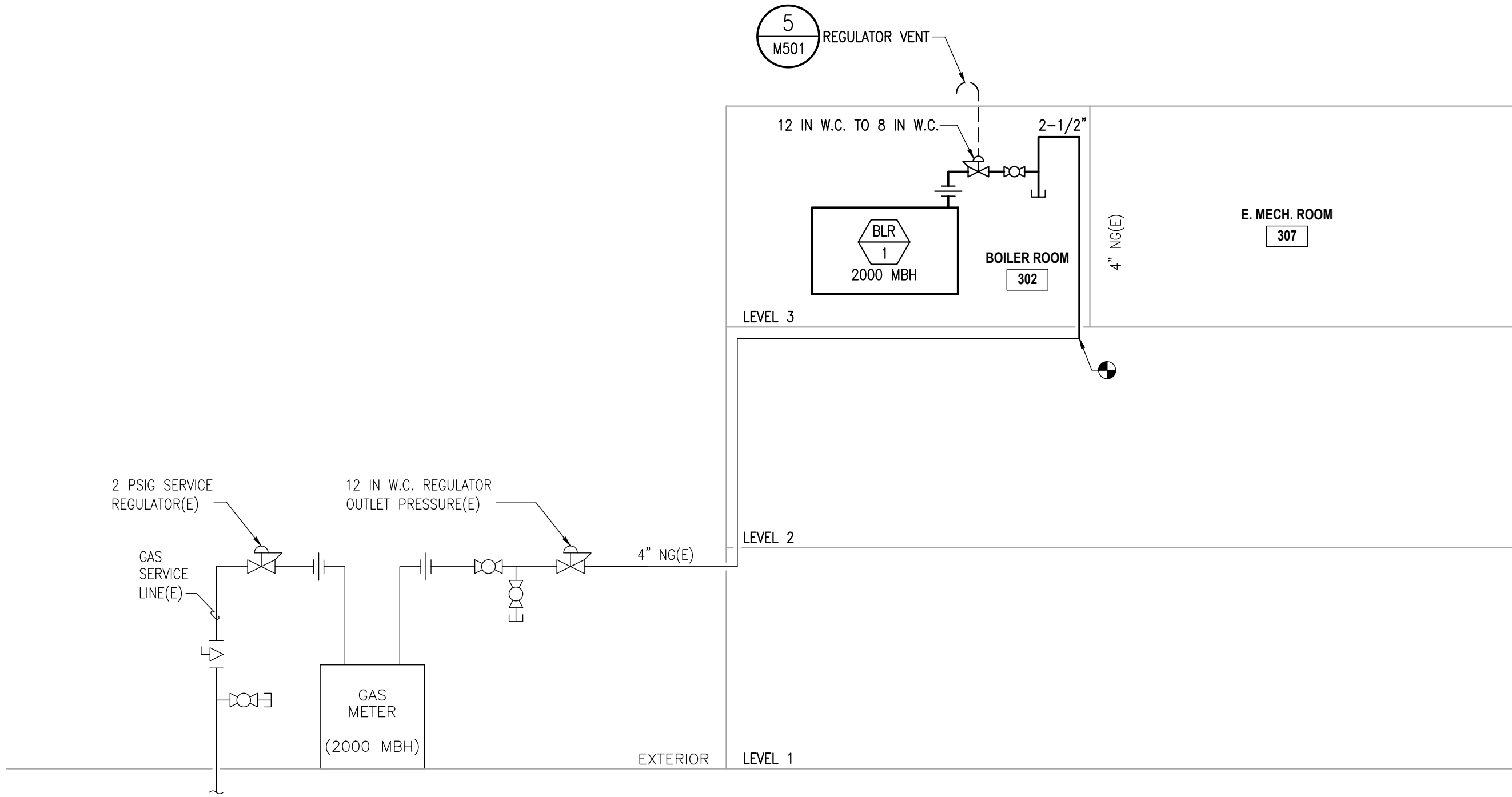
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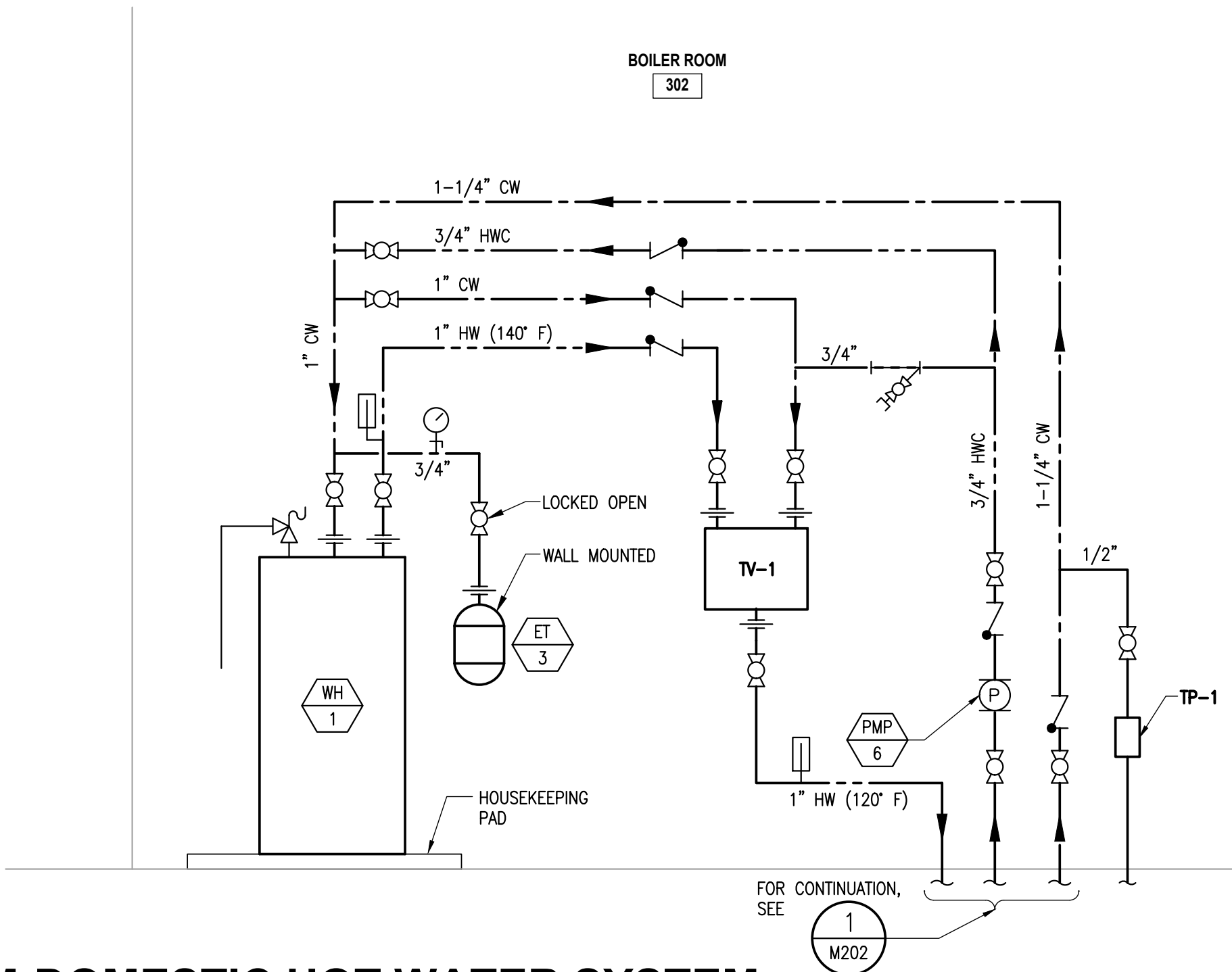
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M401 SCALE: NONE



2 DIAGRAM - NATURAL GAS

M401 SCALE: NONE



3 DIAGRAM-DOMESTIC HOT WATER SYSTEM

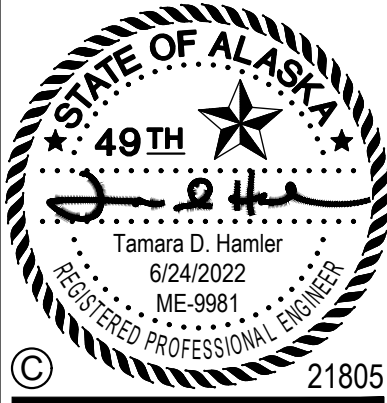
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ALASKA COURT SYSTEM  
SNOWDEN ADMIN BUILDING  
MECHANICAL UPGRADES

Revisions		
No.	Date	Description

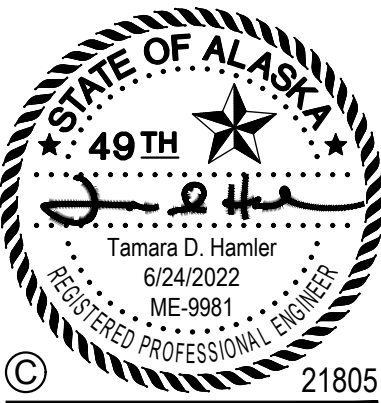
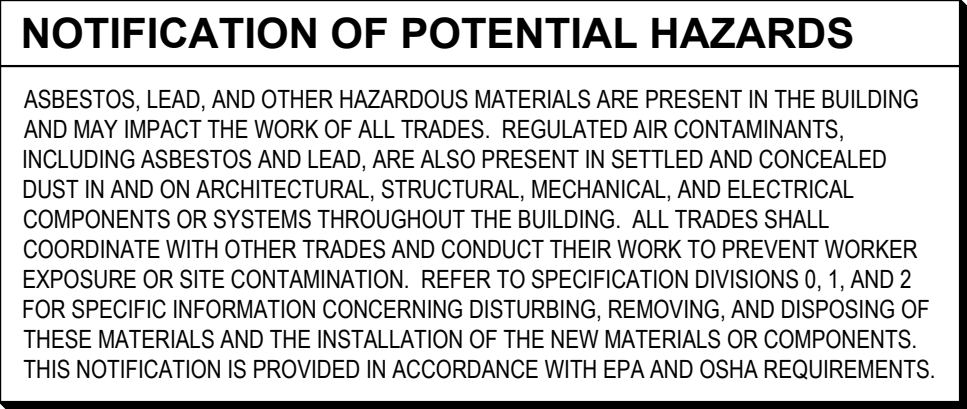
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AMC Project: 21805  
Date: 6/24/2022  
Project Phase  
PERMIT DRAWINGS

Sheet Title  
DIAGRAMS -  
PLUMBING

Sheet Number  
M401





Revisions		
No.	Date	Description

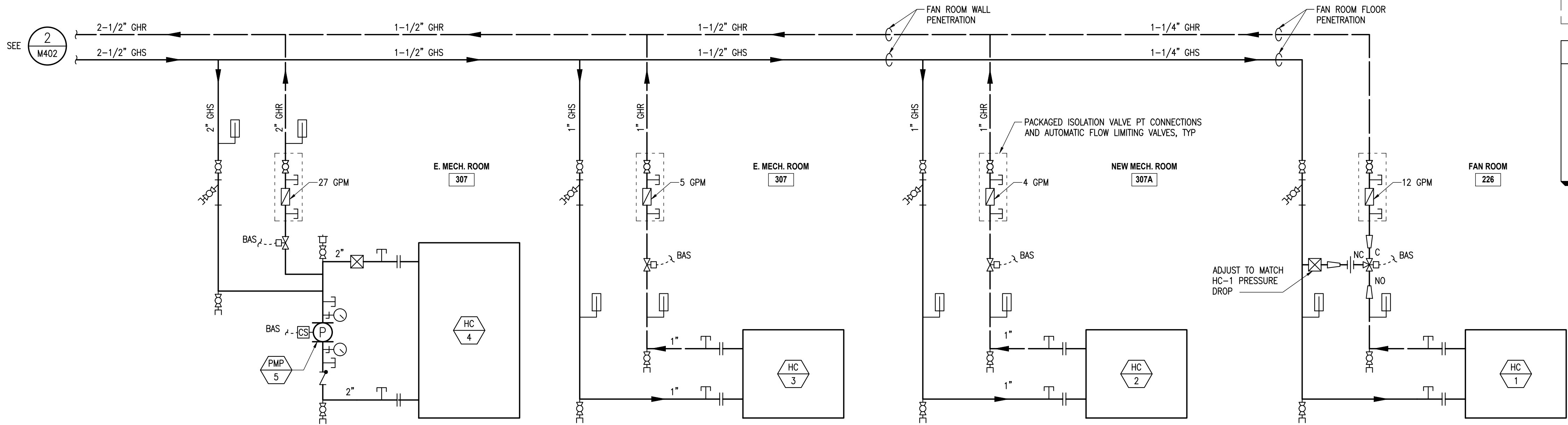
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AMC Project:	21805
Date:	6/24/2022
Project Phase	
<b>PERMIT DRAWINGS</b>	

Sheet Number

**M402**



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NOTE

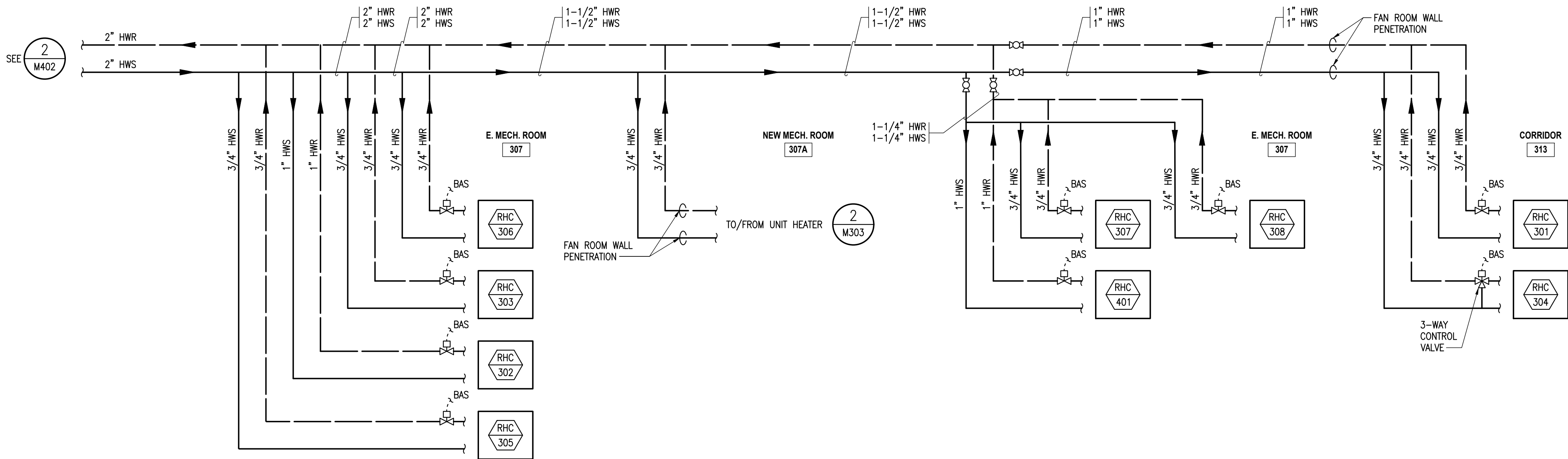
- LAYOUT FLANGES AND FITTINGS TO ALLOW REMOVAL OF COIL WITHOUT HAVING TO REMOVE ANY OTHER FITTINGS.

1

DIAGRAM - HYDRONIC HEATING SYSTEM - HEATING COIL GLYCOL LOOP

M403

SCALE: NONE



NOTE

- LAYOUT UNIONS AND FITTINGS TO ALLOW REMOVAL OF COIL WITHOUT HAVING TO REMOVE ANY OTHER FITTINGS.
- REFER TO DETAIL 5/M504 FOR REHEAT COIL VALVES AND FITTINGS.

2

DIAGRAM - HYDRONIC HEATING SYSTEM - REHEAT COIL LOOP

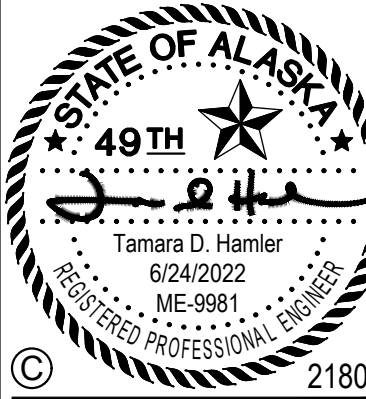
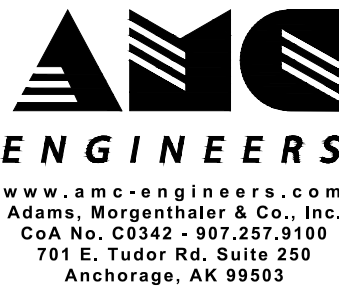
M403

SCALE: NONE

MOA ePlans Stamp

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ALASKA COURT SYSTEM  
SNOWDEN ADMIN BUILDING  
MECHANICAL UPGRADES

Revisions

No.	Date	Description

1 INCH AT FULL SIZE

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Checked by: TDH

AMC Project: 21805

Date: 6/24/2022

Project Phase

PERMIT DRAWINGS

Sheet Title  
DIAGRAMS -  
HEATING

Sheet Number

M403

# ALASKA COURT SYSTEM SNOWDEN ADMIN BUILDING MECHANICAL UPGRADES

Revisions		
No.	Date	Description

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AMC Project: 21805

Date: 6/24/2022

Project Phase  
**PERMIT DRAWINGS**

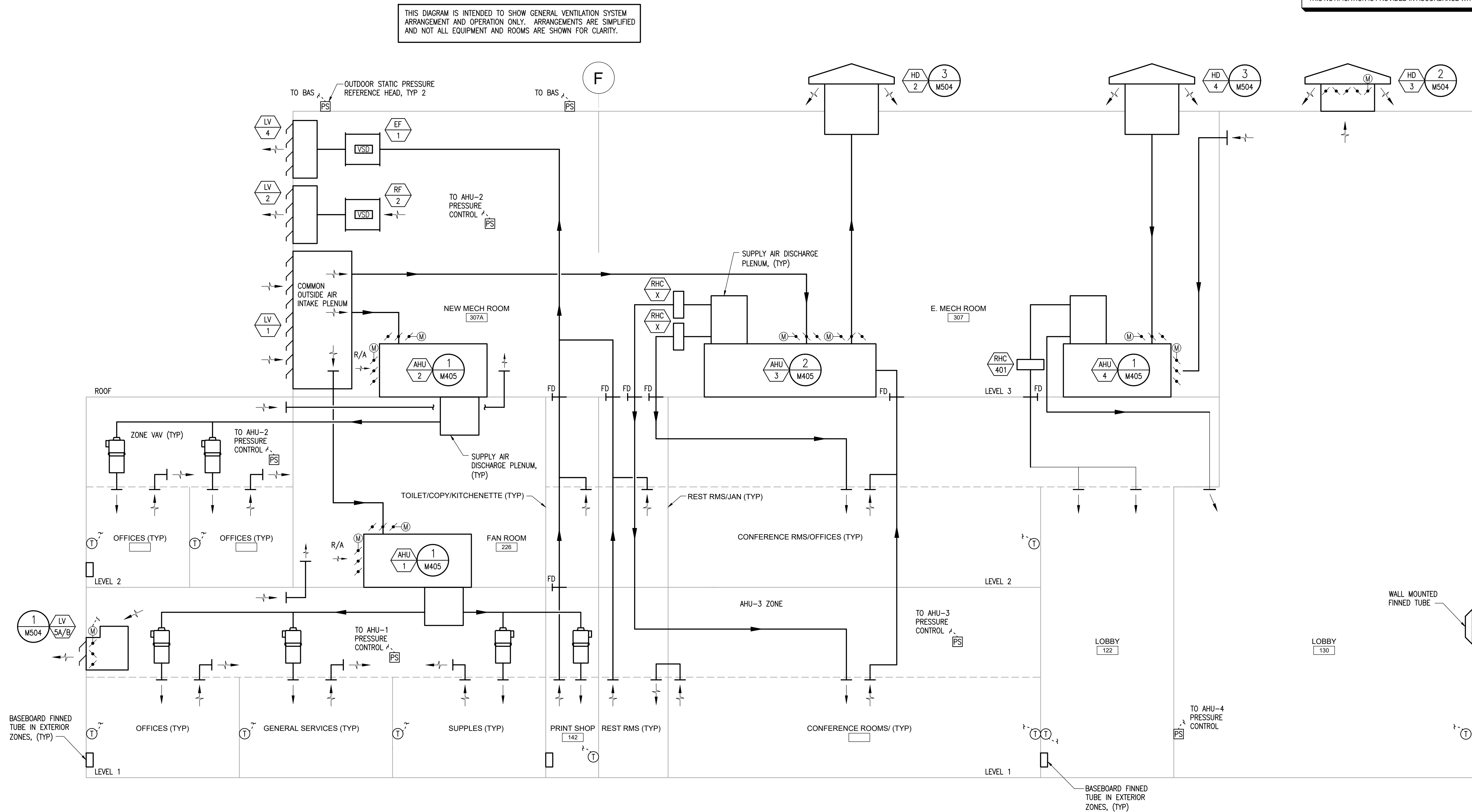
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DIAGRAMS -  
VENTILATION

Sheet Number

# M404

## NOTIFICATION OF POTENTIAL HAZARDS

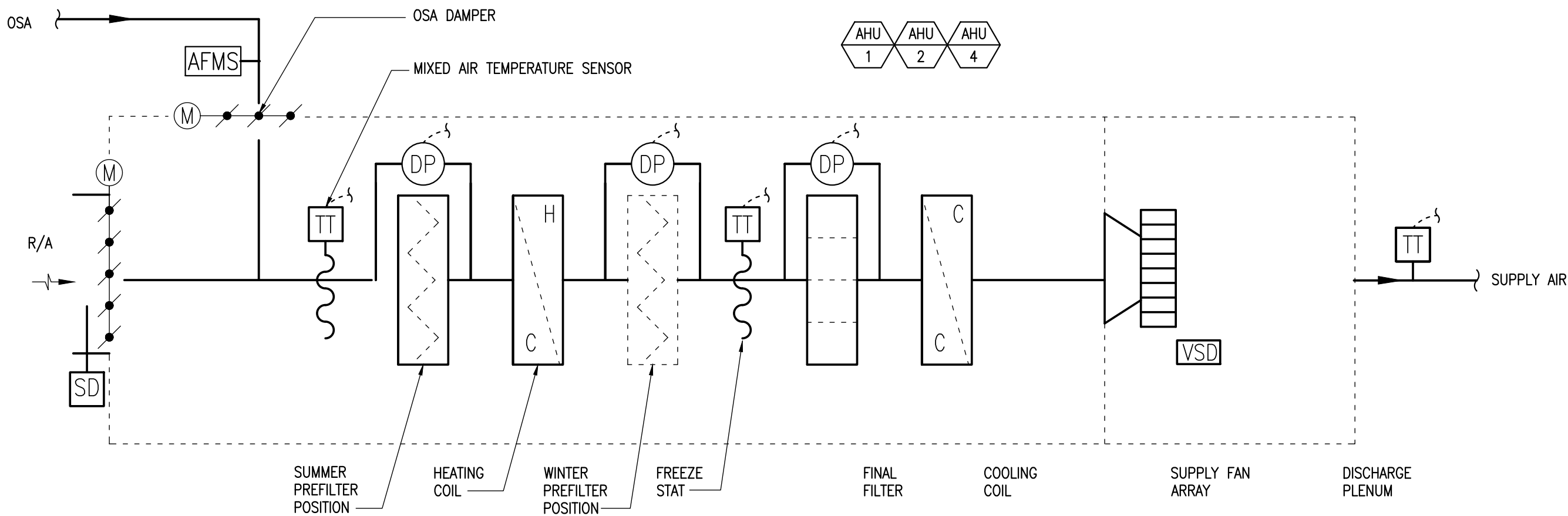
ASBESTOS, LEAD, AND OTHER HAZARDOUS MATERIALS ARE PRESENT IN THE BUILDING AND MAY IMPACT THE WORK OF ALL TRADES. REGULATED AIR CONTAMINANTS, INCLUDING ASBESTOS AND LEAD, ARE ALSO PRESENT IN SETTLED AND CONCEALED DUST IN AND ON ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL COMPONENTS OR SYSTEMS THROUGHOUT THE BUILDING. ALL TRADES SHALL COORDINATE WITH OTHER TRADES AND CONDUCT THEIR WORK TO PREVENT WORKER EXPOSURE OR SITE CONTAMINATION. REFER TO SPECIFICATION DIVISIONS 01, 1, AND 2 FOR SPECIFIC INFORMATION CONCERNING DISTURBING, REMOVING, AND DISPOSING OF THESE MATERIALS AND THE INSTALLATION OF THE NEW MATERIALS OR COMPONENTS. THIS NOTIFICATION IS PROVIDED IN ACCORDANCE WITH EPA AND OSHA REQUIREMENTS.



## 1 DIAGRAM - VENTILATION SYSTEMS

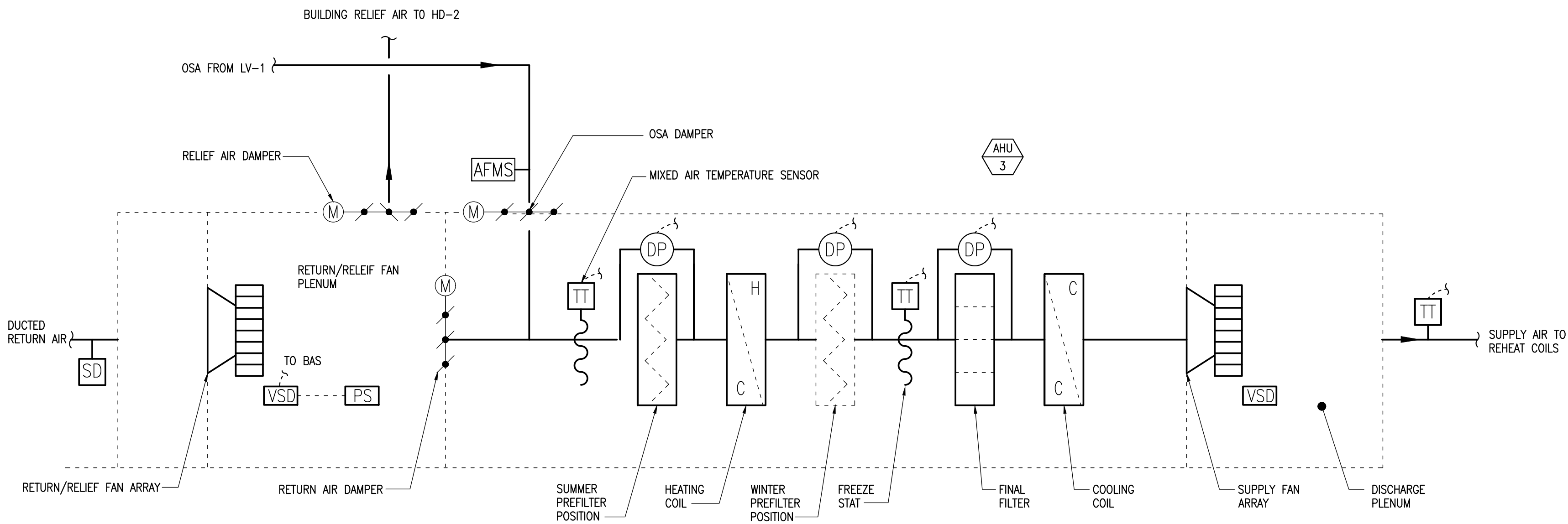
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M405 SCALE: NONE

DIAGRAM - AIR HANDLING UNIT (AHU-1, AHU-2, AHU-4)



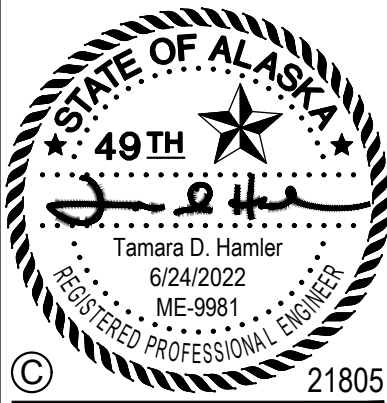
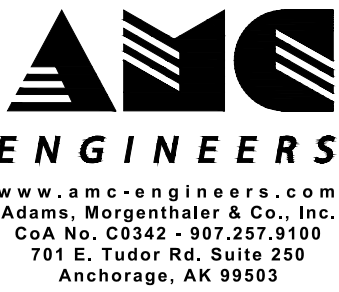
2  
M405 SCALE: NONE

DIAGRAM - AIR HANDLING UNIT (AHU-3)

MOA ePlans Stamp

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MECHANICAL UPGRADES

Revisions

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Date: 6/24/2022

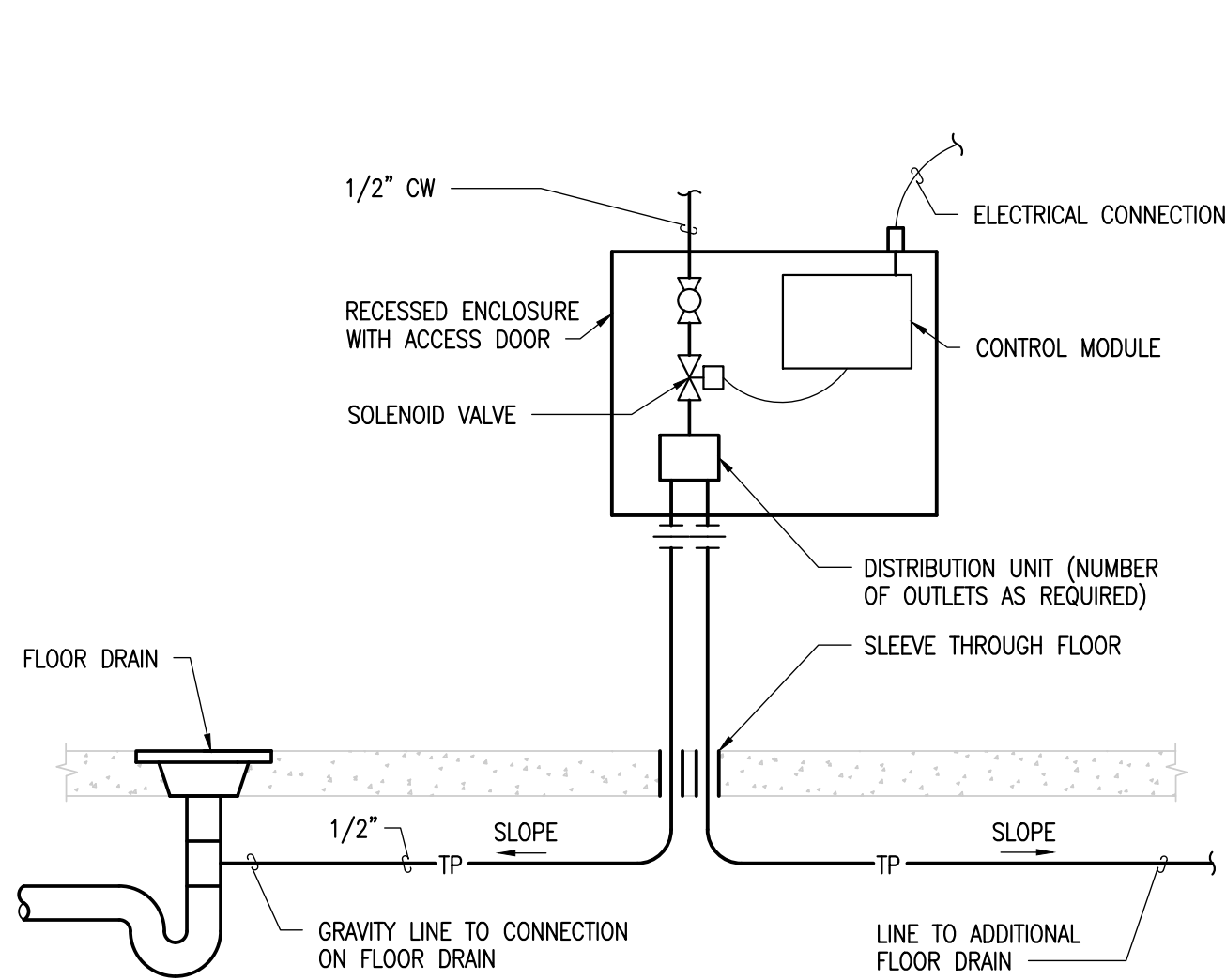
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DIAGRAMS  
VENTILATION

Sheet Number

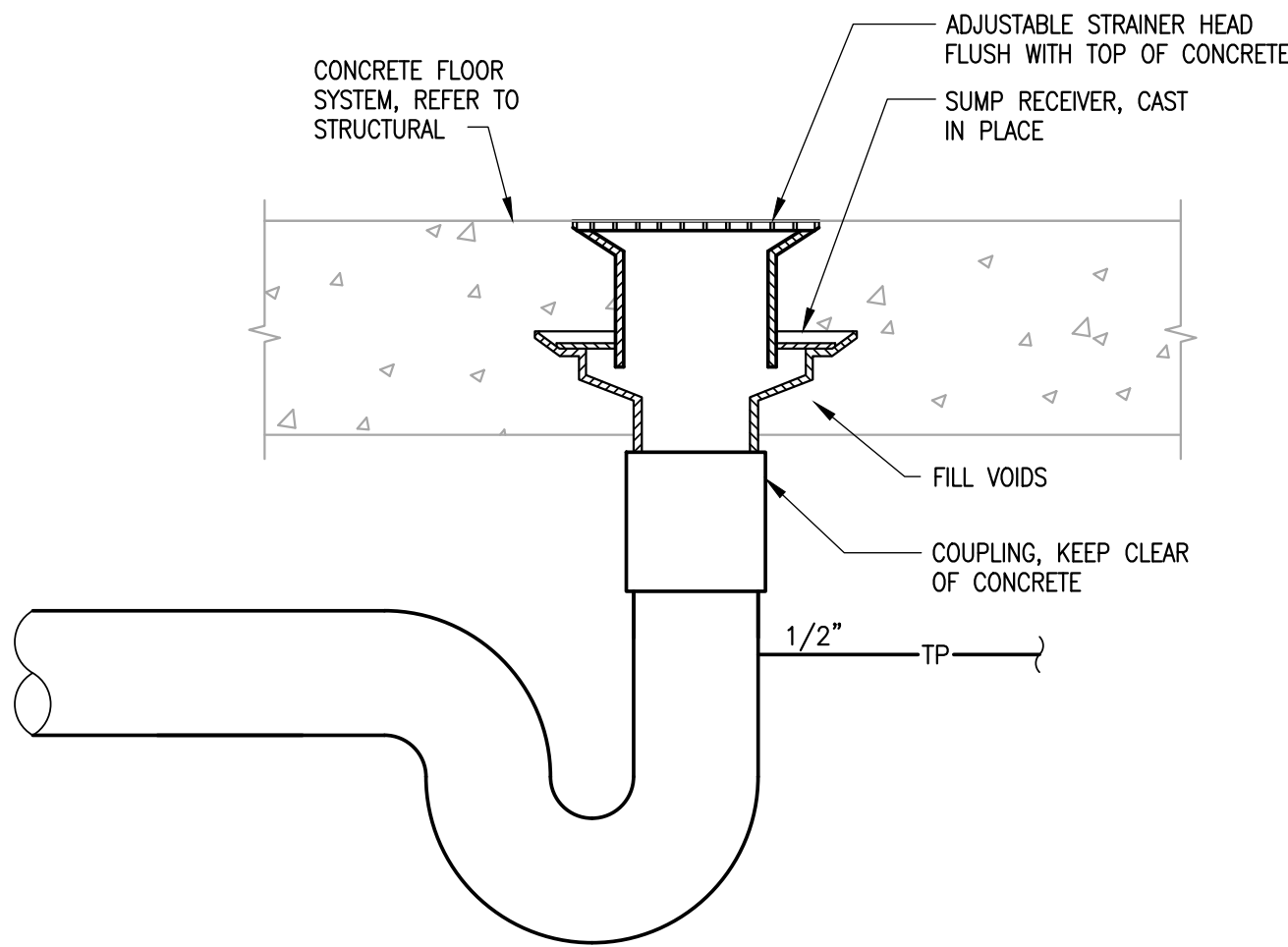
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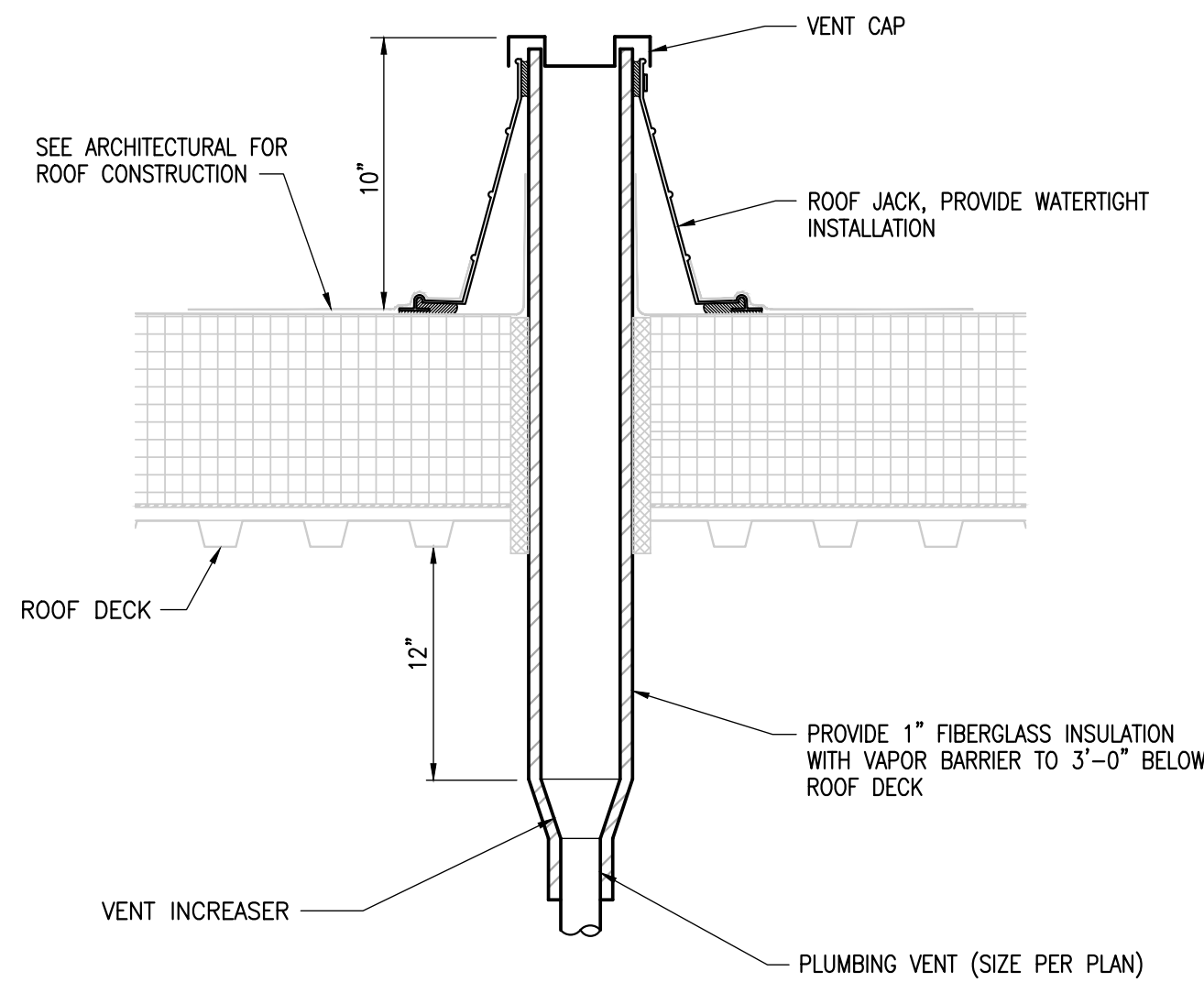
**1** DETAIL - TRAP PRIMER (ELECTRONIC)

M501 SCALE: NONE



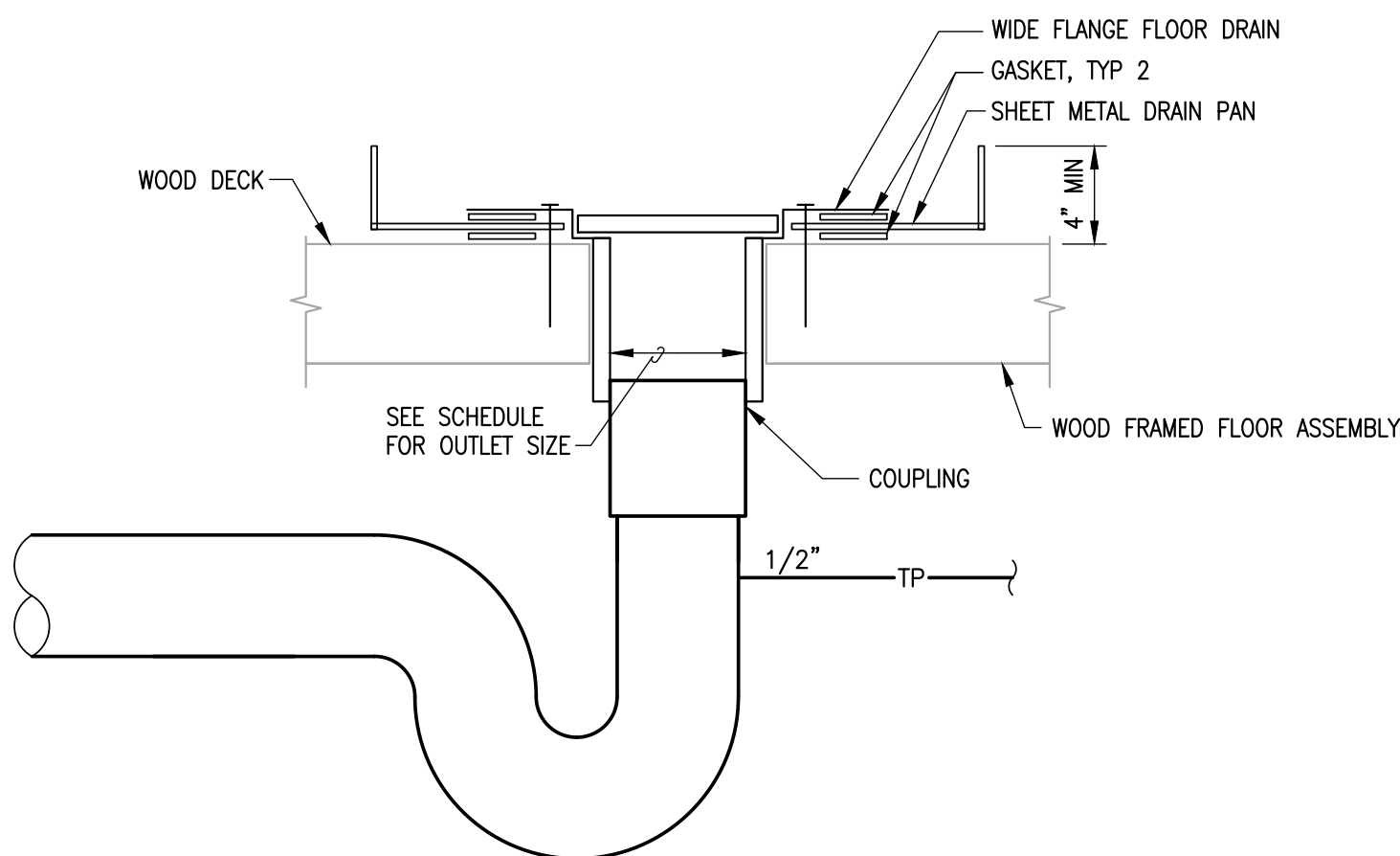
**2** DETAIL - FLOOR DRAIN (FD-1)

M501 SCALE: NONE



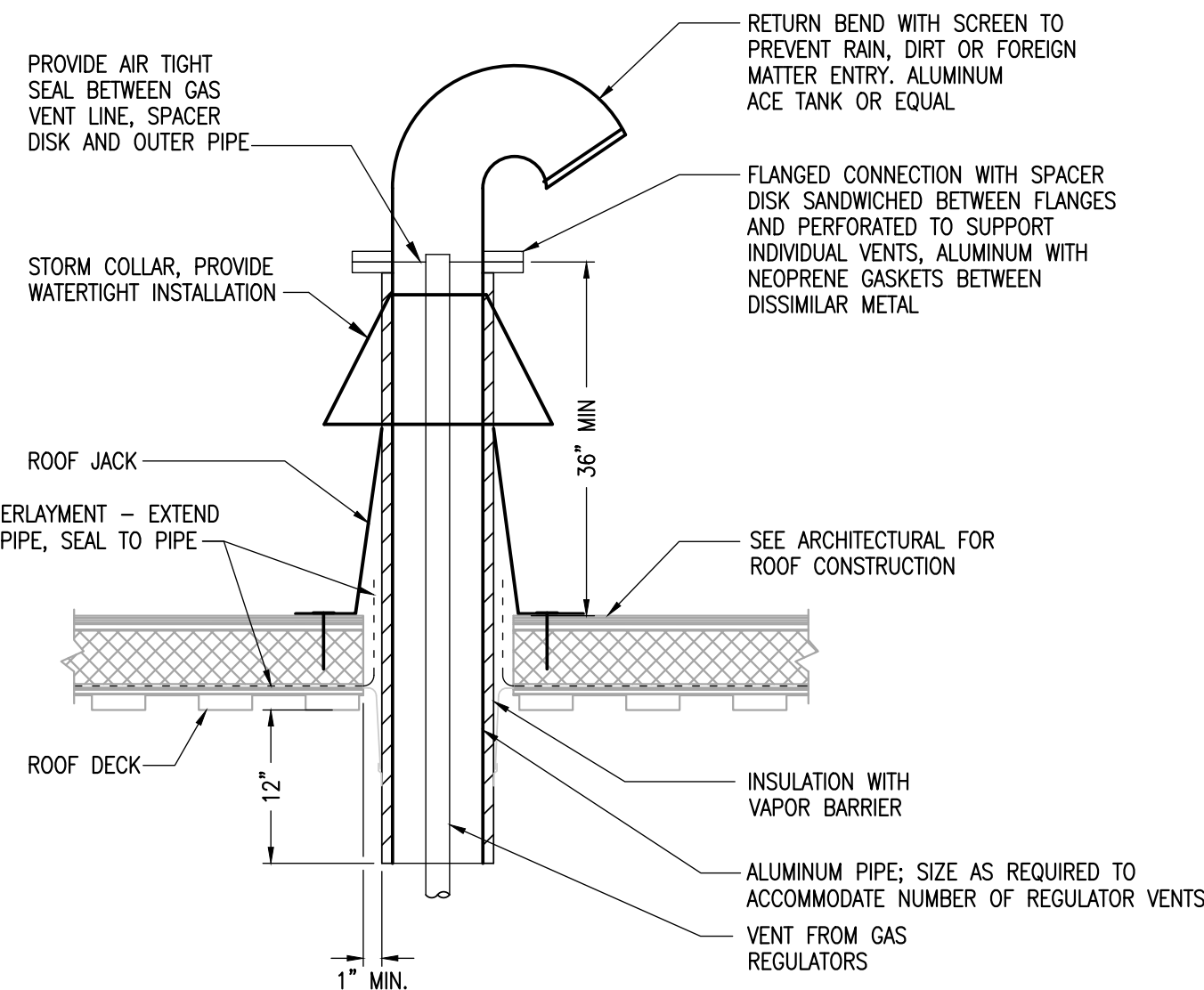
**3** DETAIL - VENT THRU ROOF

M501 SCALE: NONE



**4** DETAIL - FLOOR DRAIN (FD-2)

M501 SCALE: NONE



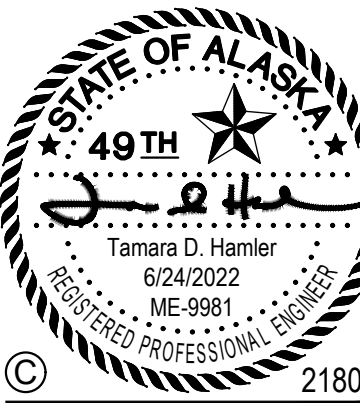
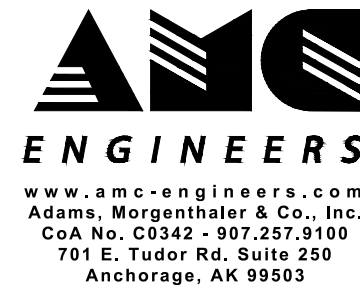
**5** DETAIL - GAS REGULATOR VENT

M501 SCALE: NONE

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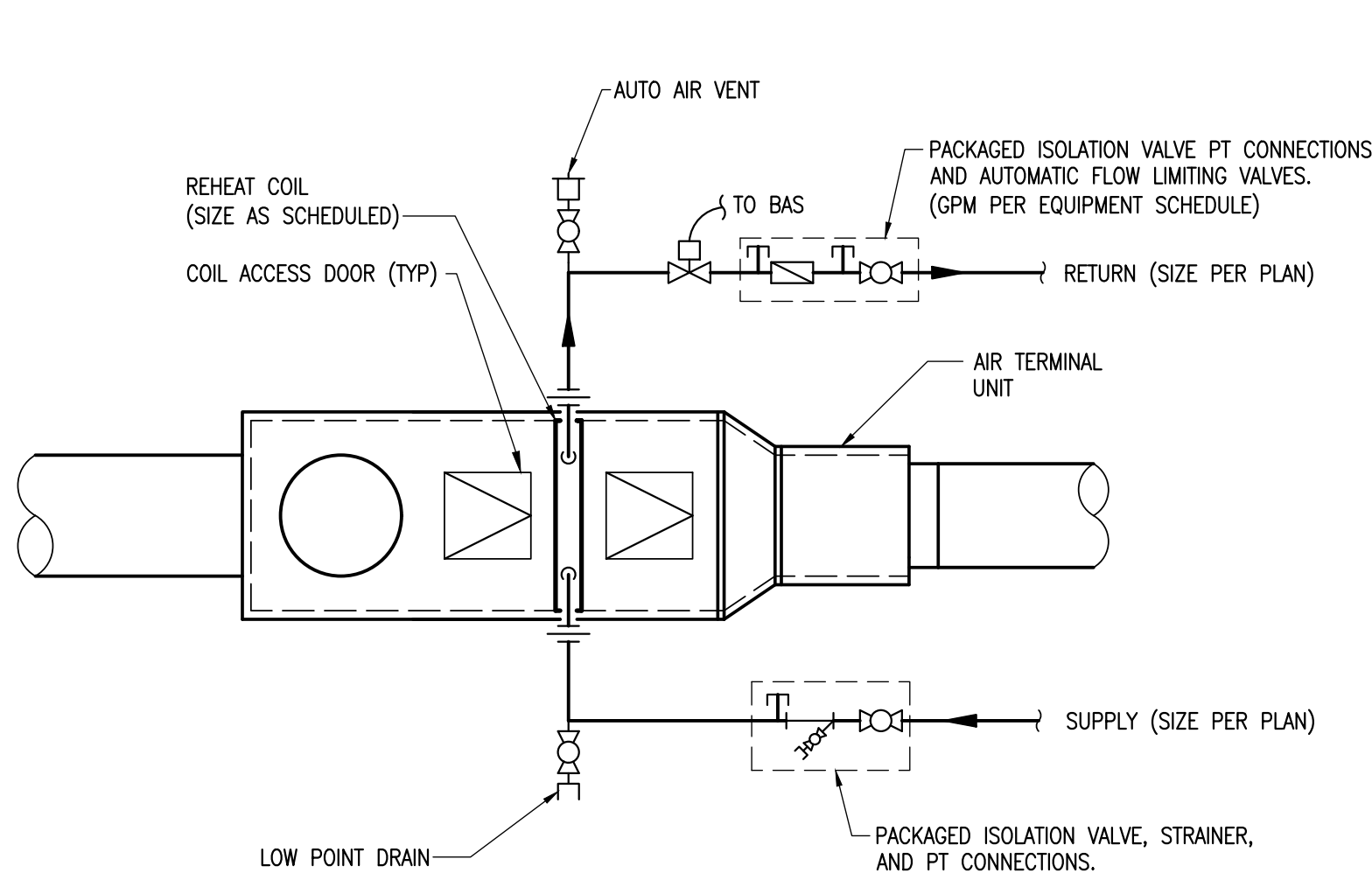
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DETAILS - PLUMBING

Sheet Number

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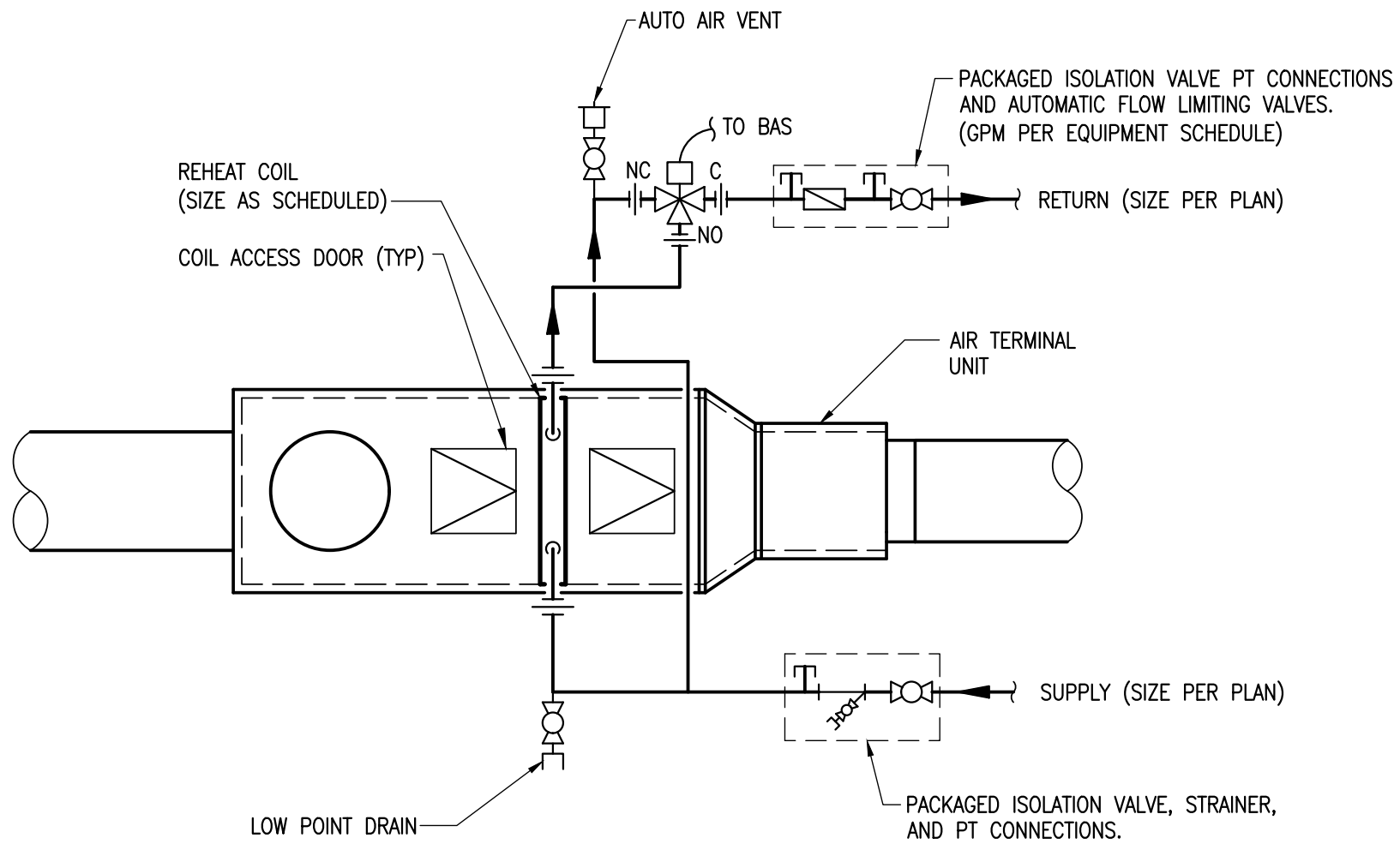


NOTES

- SUPPLY AND RETURN HYDRONIC PIPING SHOWN OFFSET FOR CLARITY.
- LOCATE REHEAT COIL PIPING AND VALVES ON SAME SIDE OF AIR TERMINAL UNIT AS CONTROL BOX AND COIL ACCESS DOORS TO ALLOW FULL MAINTENANCE FROM A SINGLE LOCATION.

1 DETAIL - AIR TERMINAL UNIT PIPING (TWO-WAY)

M502 SCALE: NONE

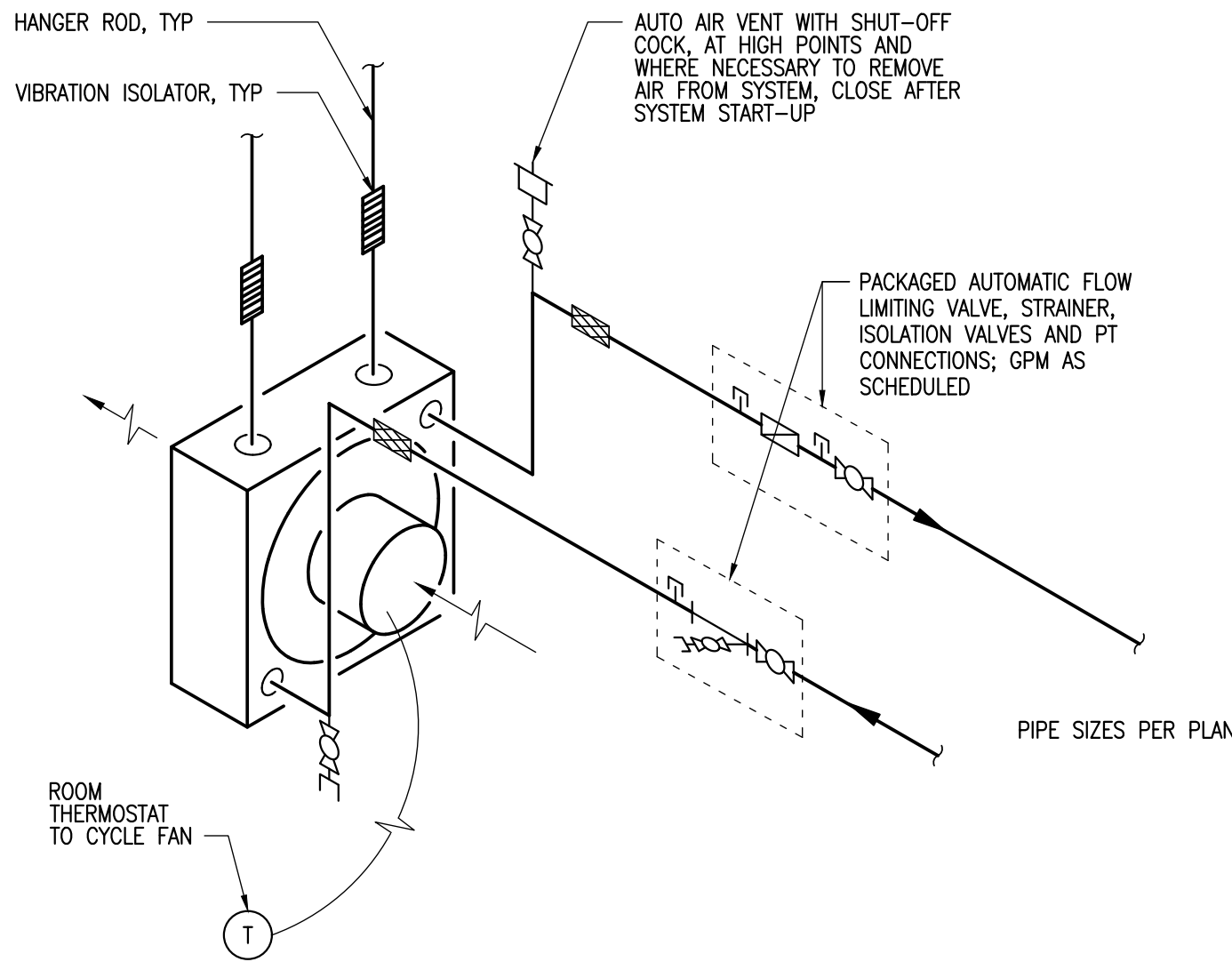


NOTES

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2 DETAIL - AIR TERMINAL UNIT PIPING (THREE-WAY)

M502 SCALE: NONE

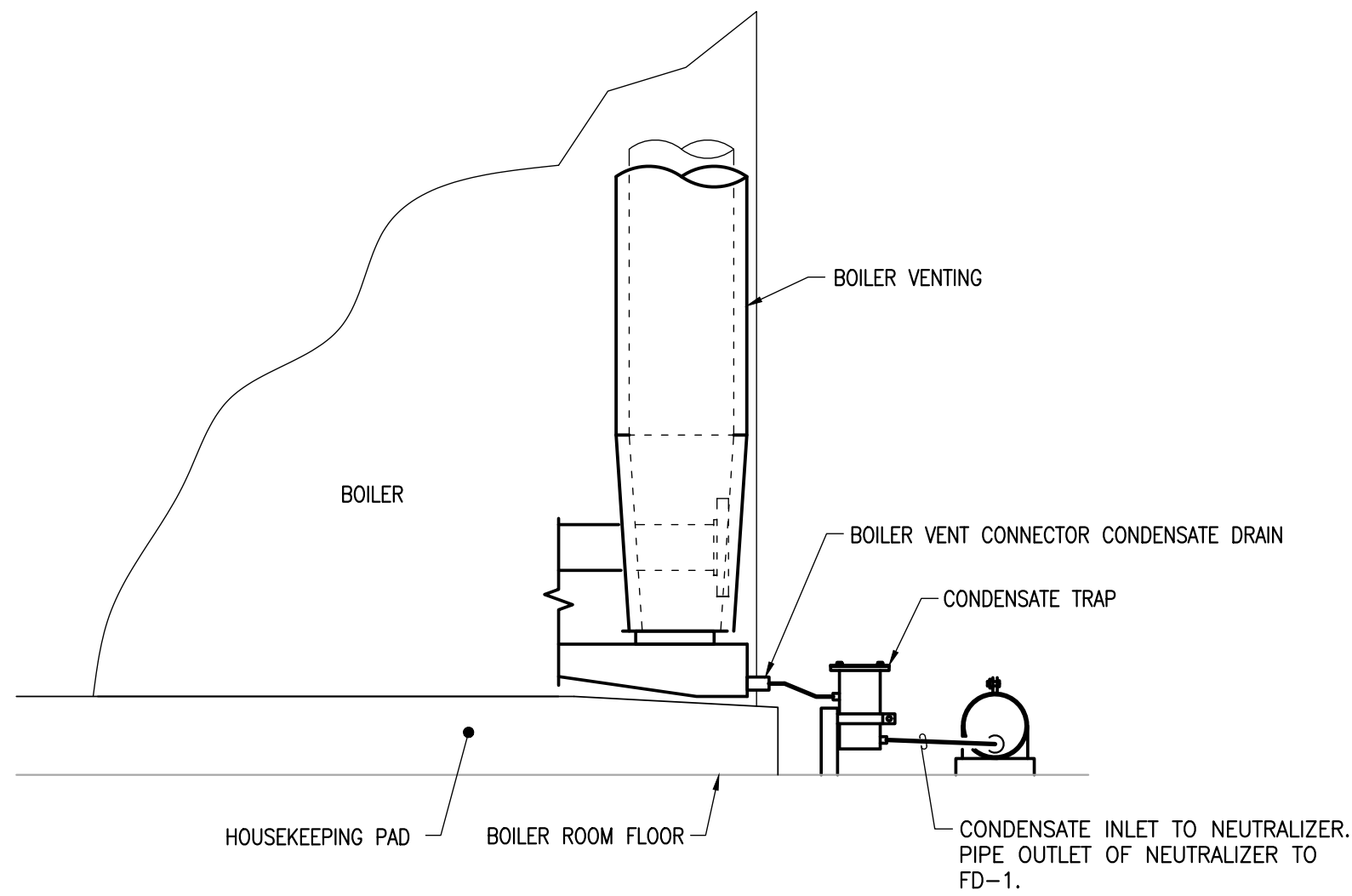


NOTES

- FOR THREADED STEEL UH CONNECTIONS, PROVIDE DIELECTRIC UNION CONNECTIONS.
- UNIT HEATER "RUNS WILD." CYCLE FAN MOTOR TO CONTROL ZONE TEMPERATURE.

3 DETAIL - HORIZONTAL UNIT HEATER

M502 SCALE: NONE



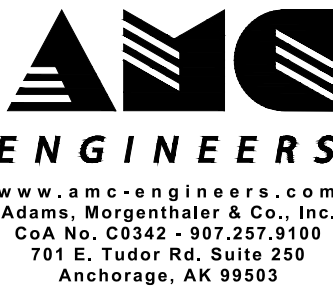
4 DETAIL - CONDENSATE NEUTRALIZER (NT-1)

M502 SCALE: NONE

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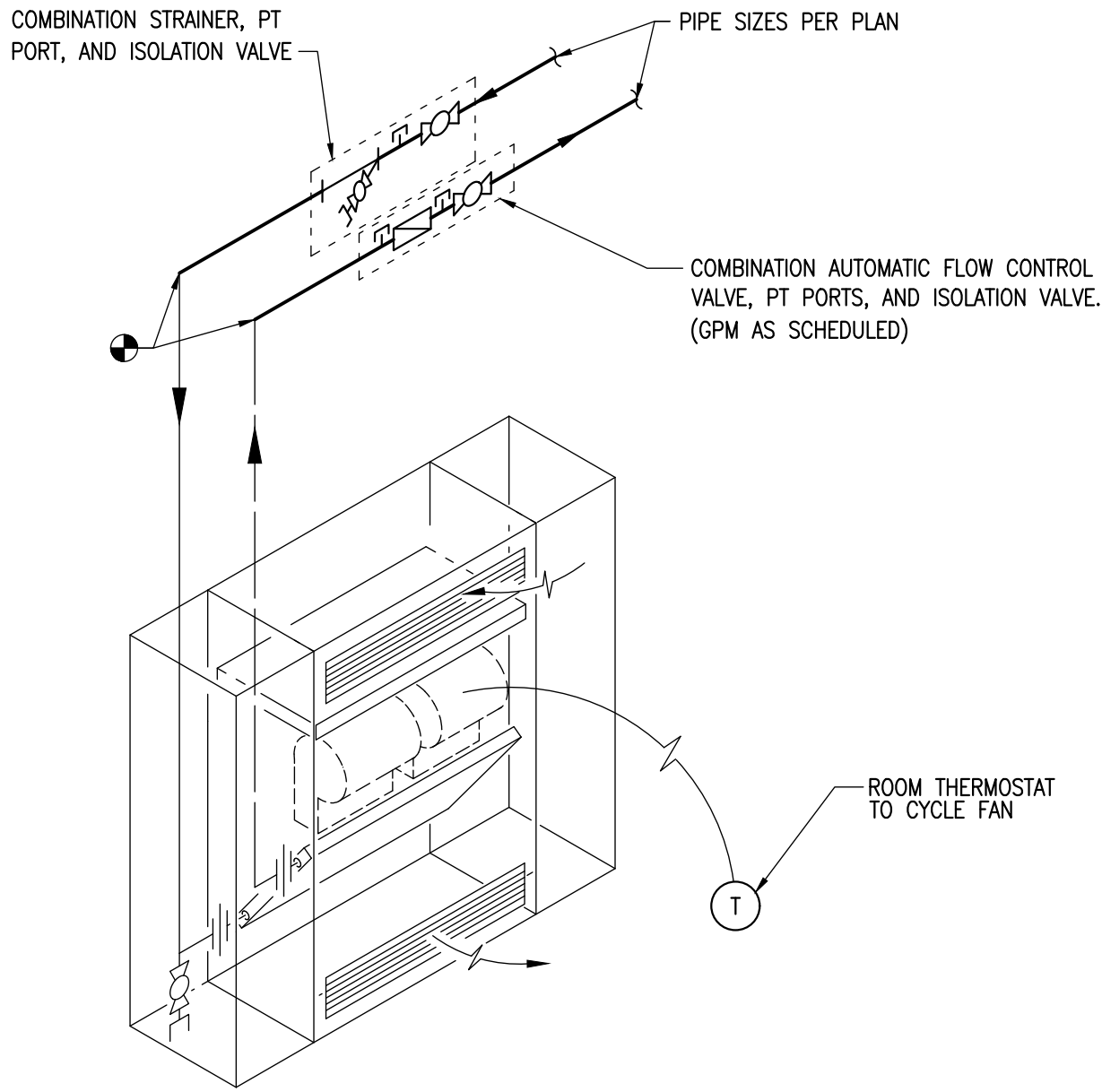
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DETAILS - HEATING

Sheet Number

M502



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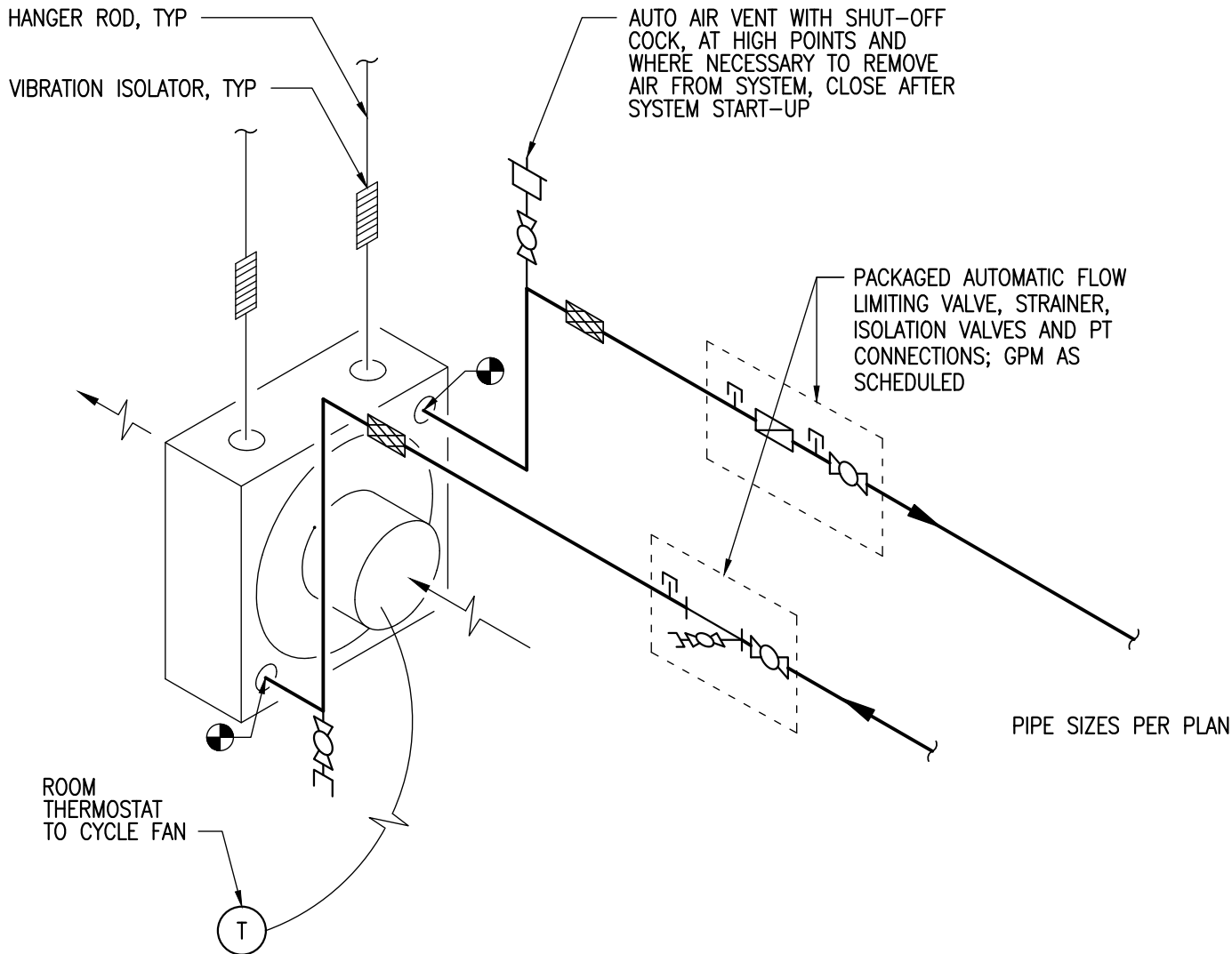


NOTES

1. CABINET UNIT HEATER "RUNS WILD." CYCLE FAN MOTOR TO CONTROL ZONE TEMPERATURE.

**1** **DETAIL - CABINET UNIT HEATER(E) CONNECTION**

M503 SCALE: NONE



NOTES

1. FOR THREADED STEEL UH CONNECTIONS, PROVIDE DIELECTRIC UNION CONNECTIONS.
2. UNIT HEATER "RUNS WILD." CYCLE FAN MOTOR TO CONTROL ZONE TEMPERATURE.

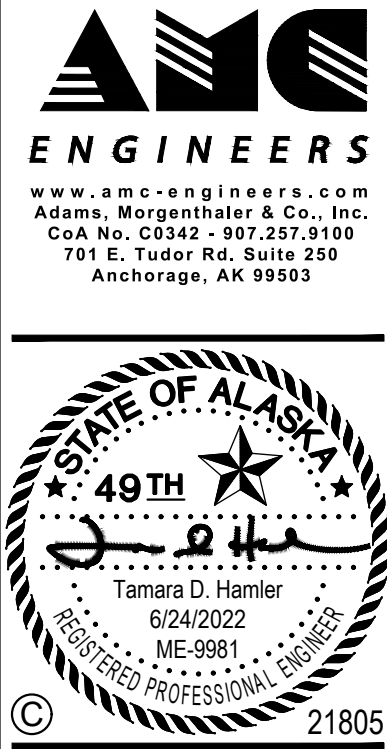
**2** **DETAIL - UNIT HEATER(E) CONNECTION**

M503 SCALE: NONE

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NOTIFICATION OF POTENTIAL HAZARDS

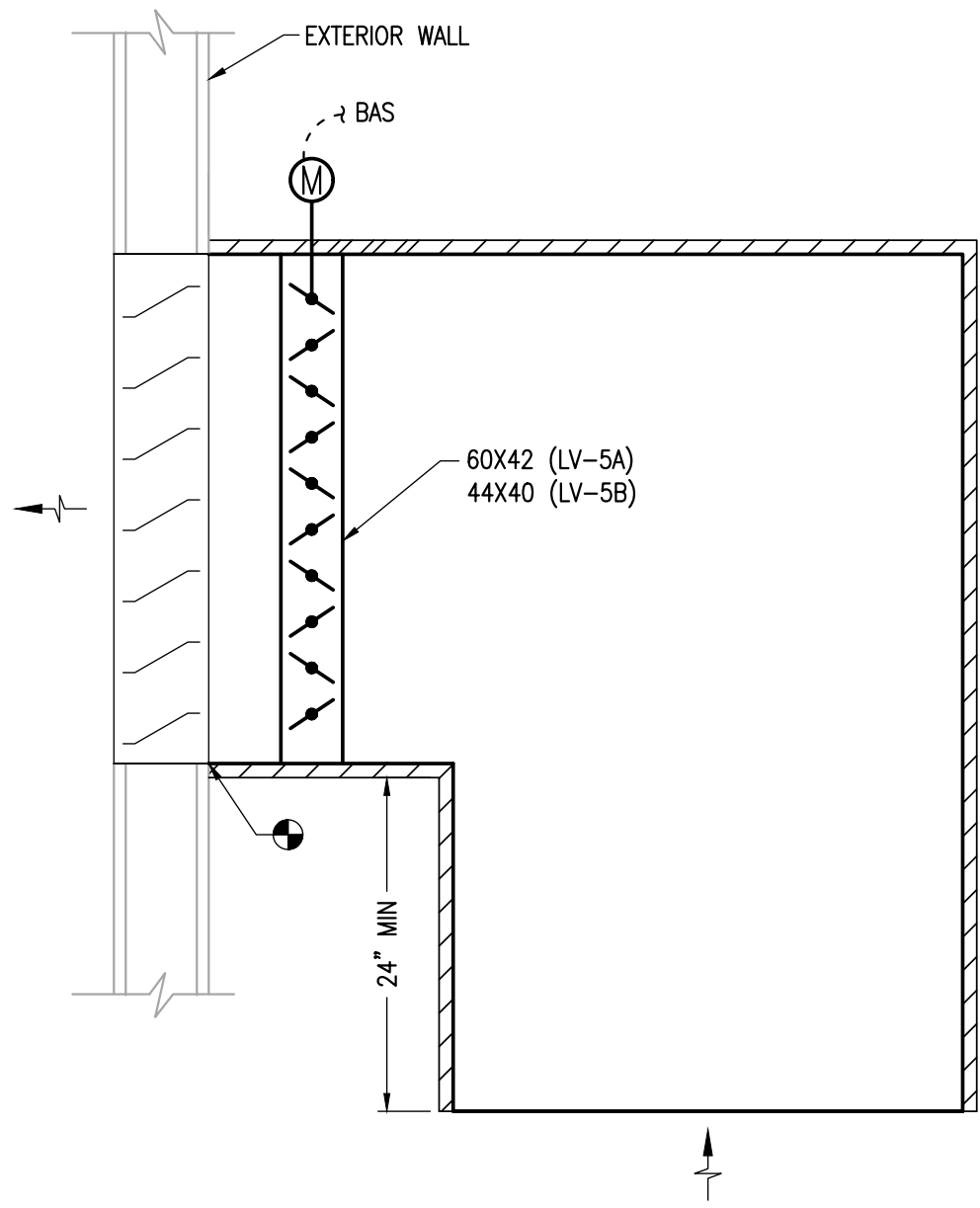
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AMC Project:	21805	
Date:	6/24/2022	
Project Phase	PERMIT DRAWINGS	
Sheet Title	DETAILS - HEATING	
Sheet Number	M503	

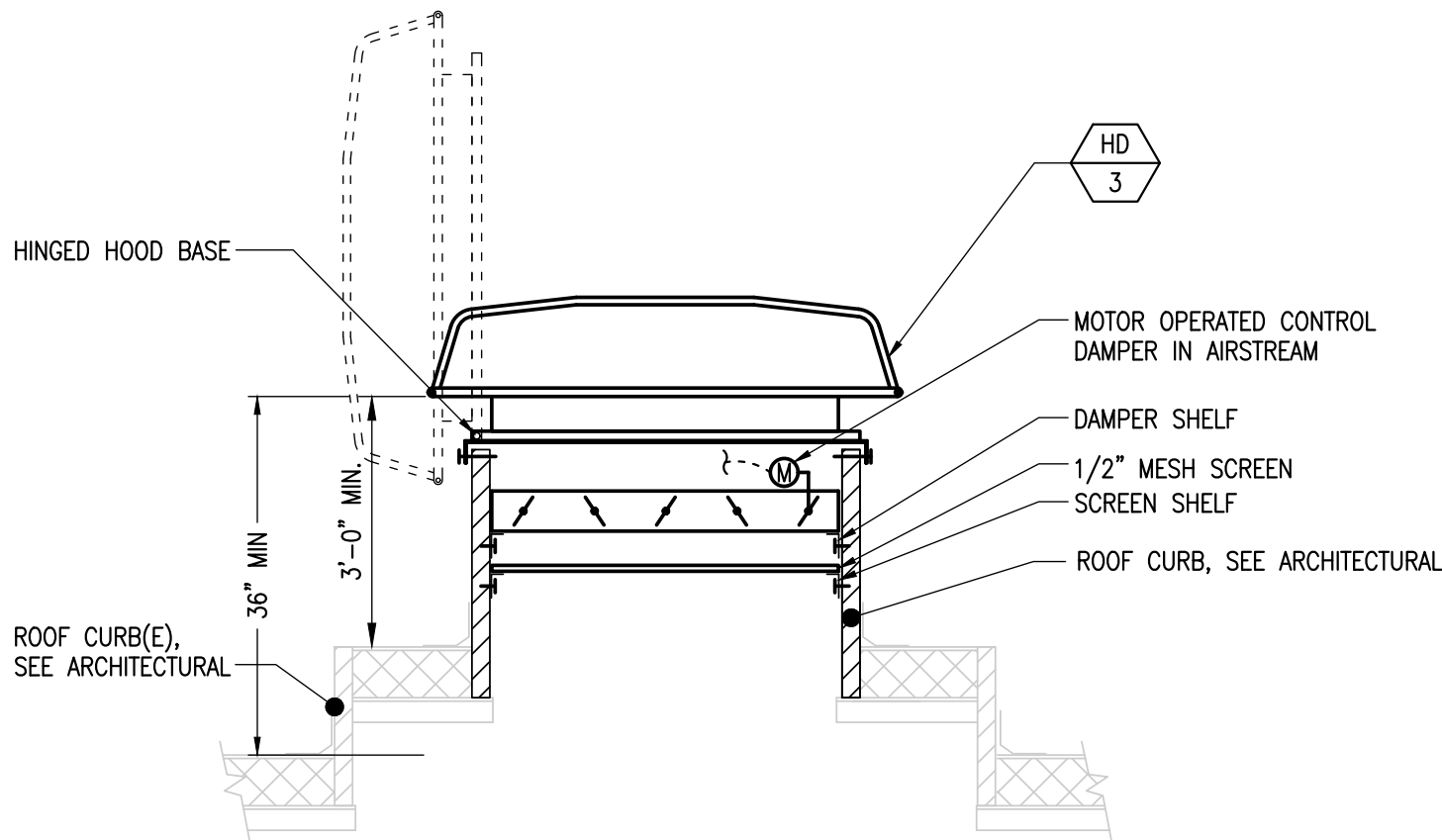
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PLAN VIEW

1 DETAIL - AHU-1 RELIEF ASSEMBLY

M504 SCALE: NONE

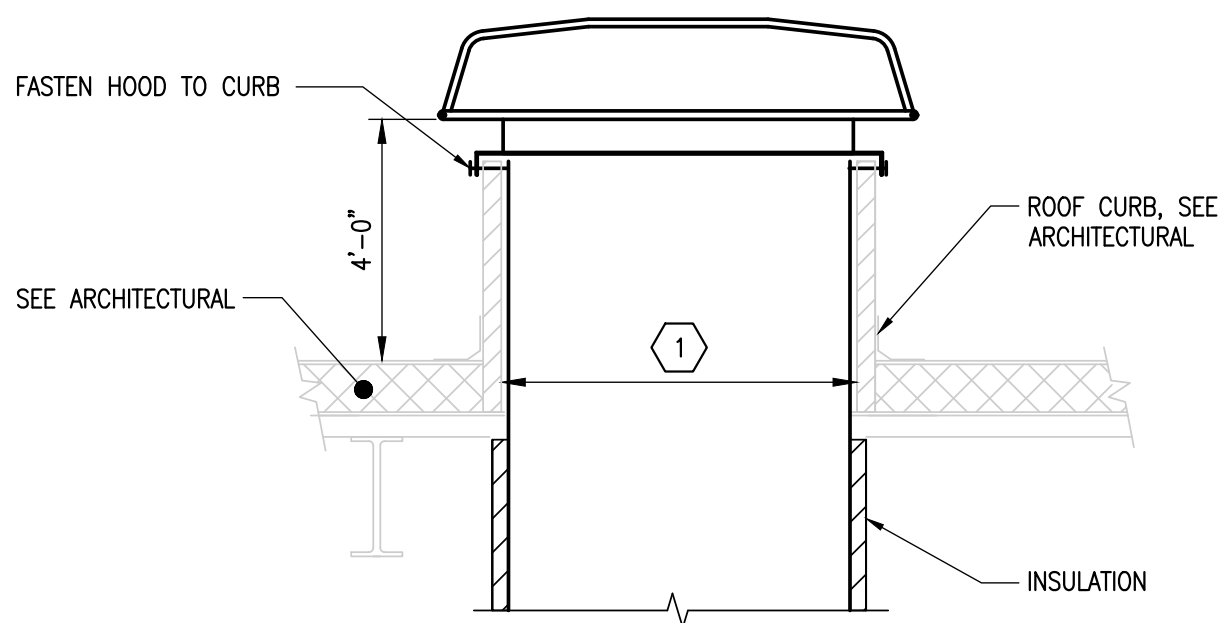


NOTES

1. COORDINATE ROOF PENETRATION WITH STRUCTURAL AND ARCHITECTURAL.

2 DETAIL - AHU-4 RELIEF ASSEMBLY

M504 SCALE: NONE



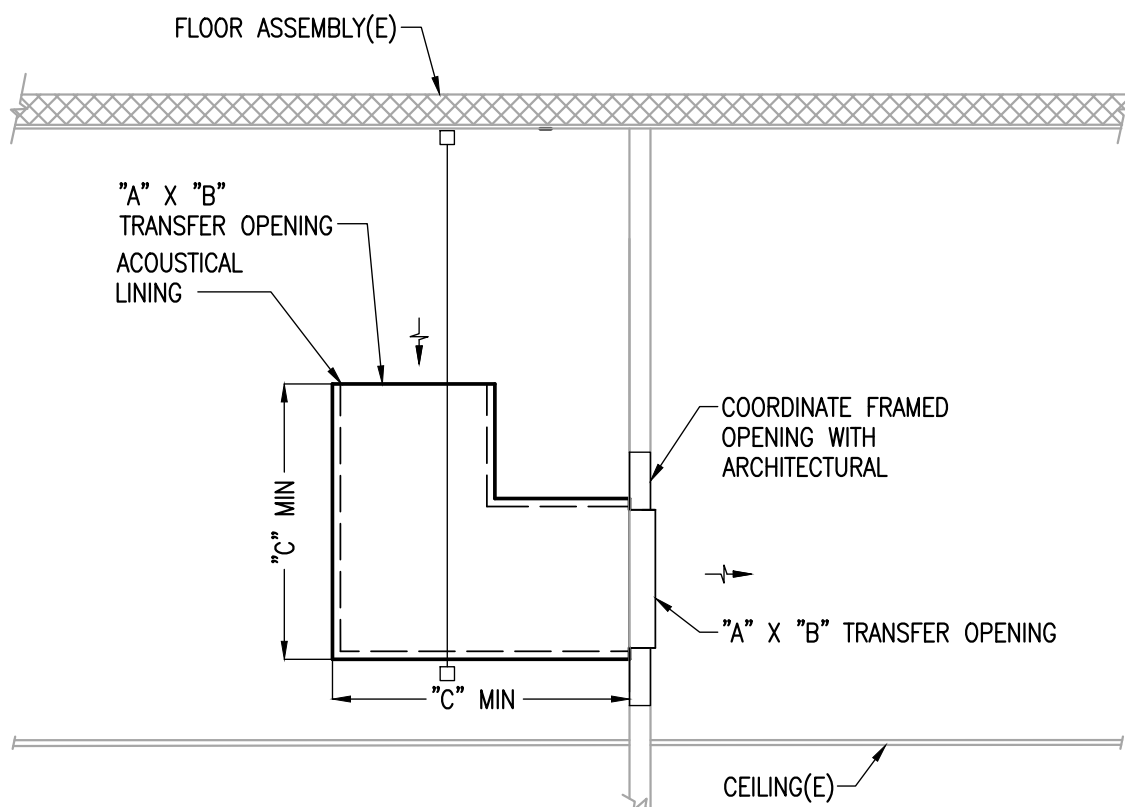
NOTES

- 1 SEE LOUVER/HOOD SCHEDULE FOR THROAT DIMENSIONS.  
2. COORDINATE ROOF PENETRATION WITH STRUCTURAL AND ARCHITECTURAL.

3 DETAIL - TYPICAL HOOD

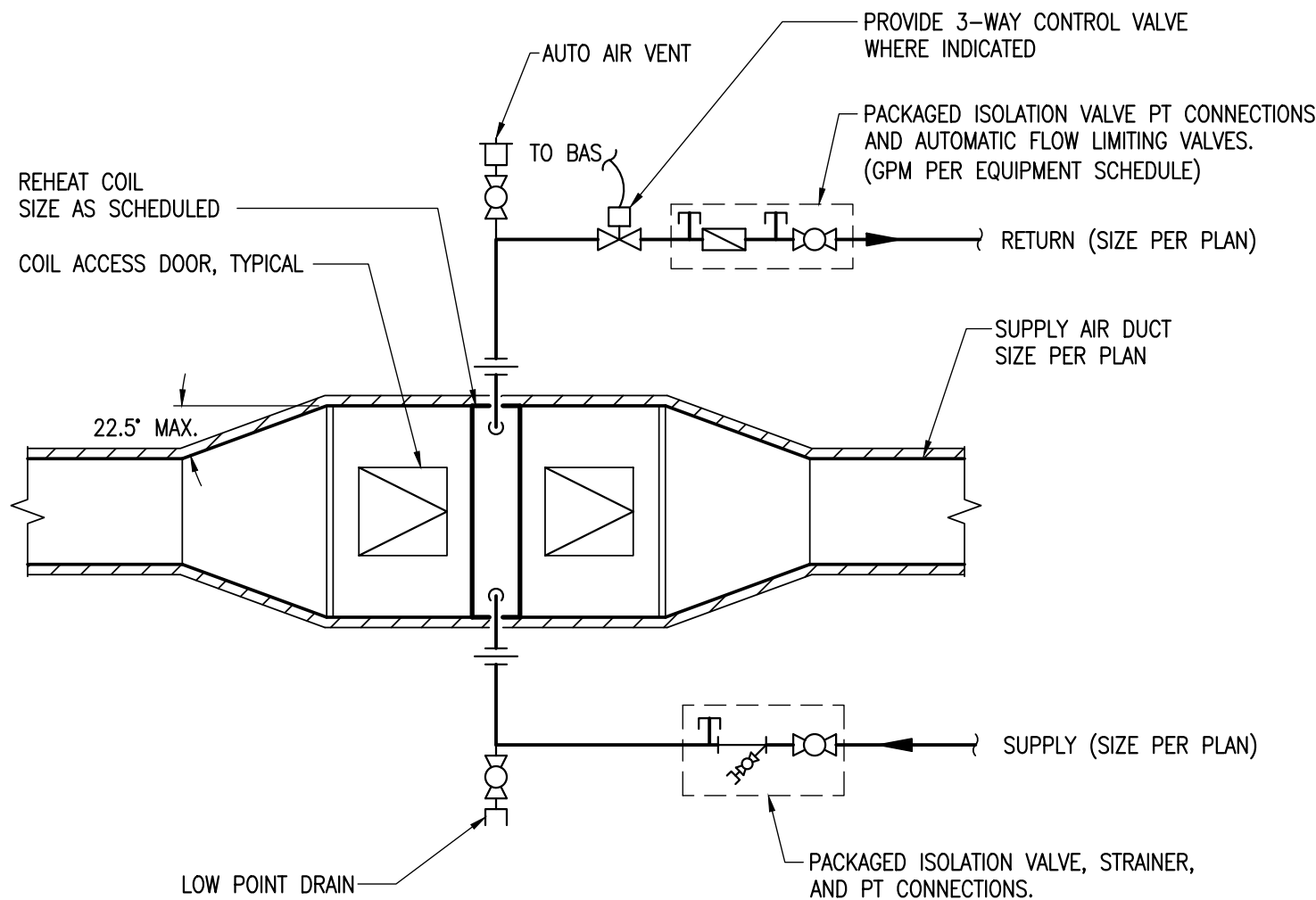
M504 SCALE: NONE

TRANSFER OPENING (SF)	DIMENSIONS (IN)		
	A	B	C
0.5 SF	6	12	12
1 SF	6	24	12



4 DETAIL - TYPICAL LINED TRANSFER DUCT

M504 SCALE: NONE



NOTES

1. HWS AND HWR HYDRONIC PIPING SHOWN OFFSET FOR CLARITY.

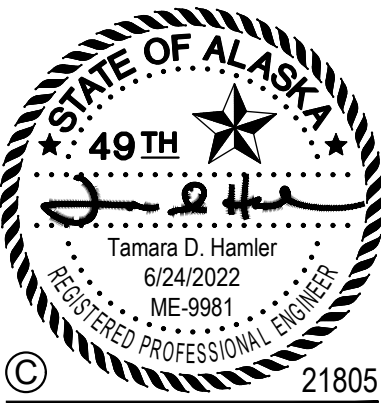
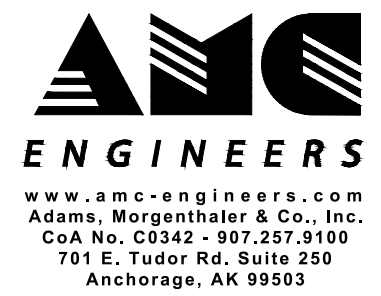
5 DETAIL - TYPICAL DUCT MOUNTED REHEAT COIL

M504 SCALE: NONE

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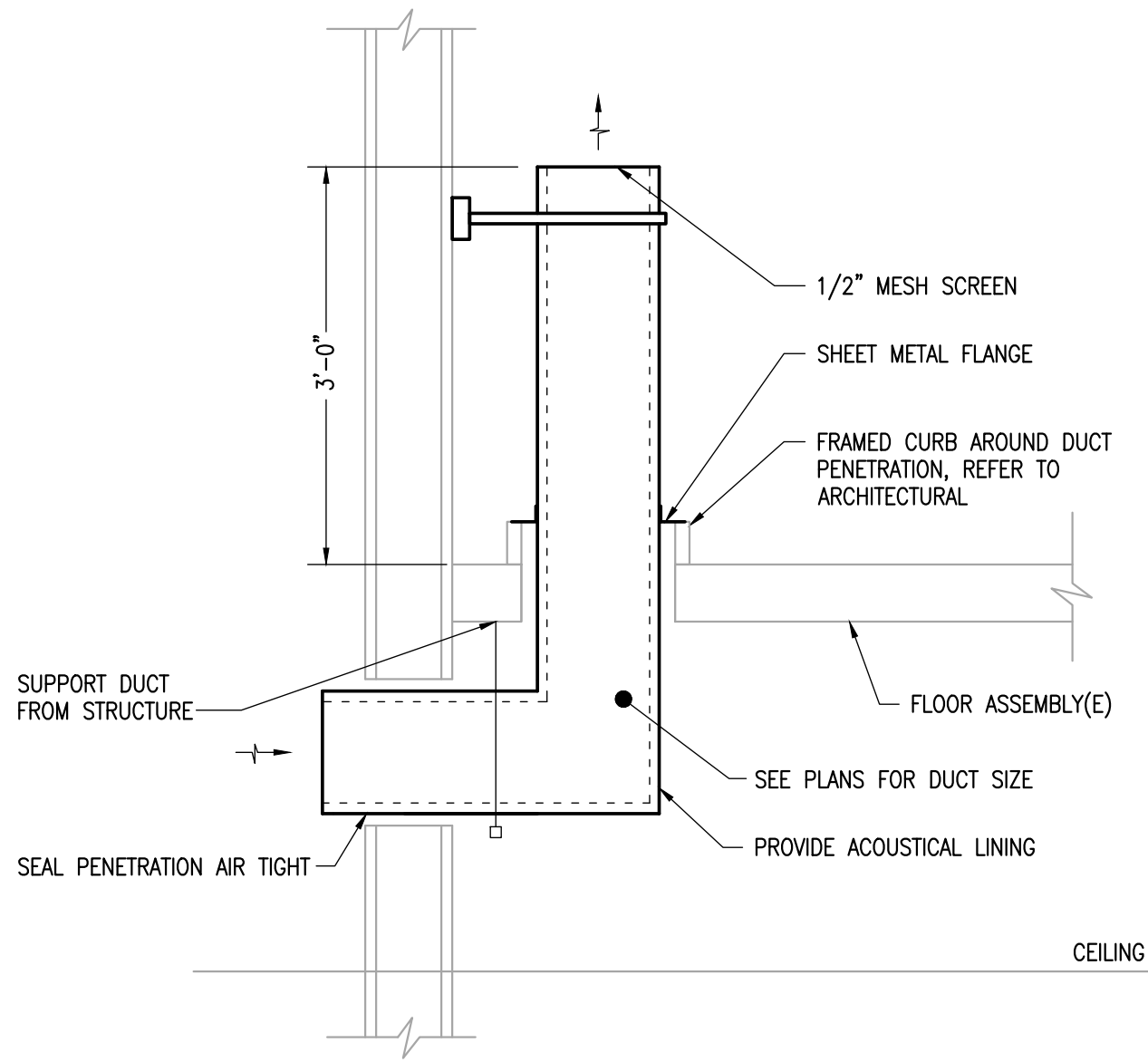
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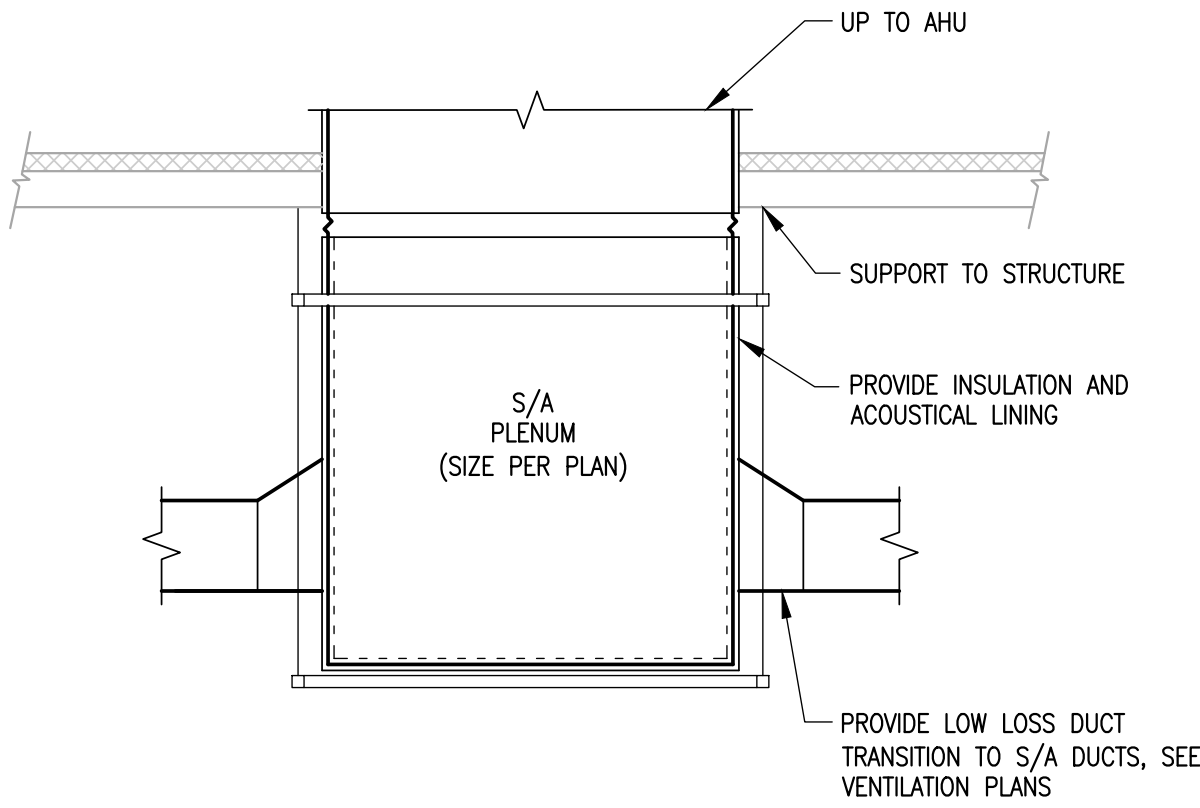
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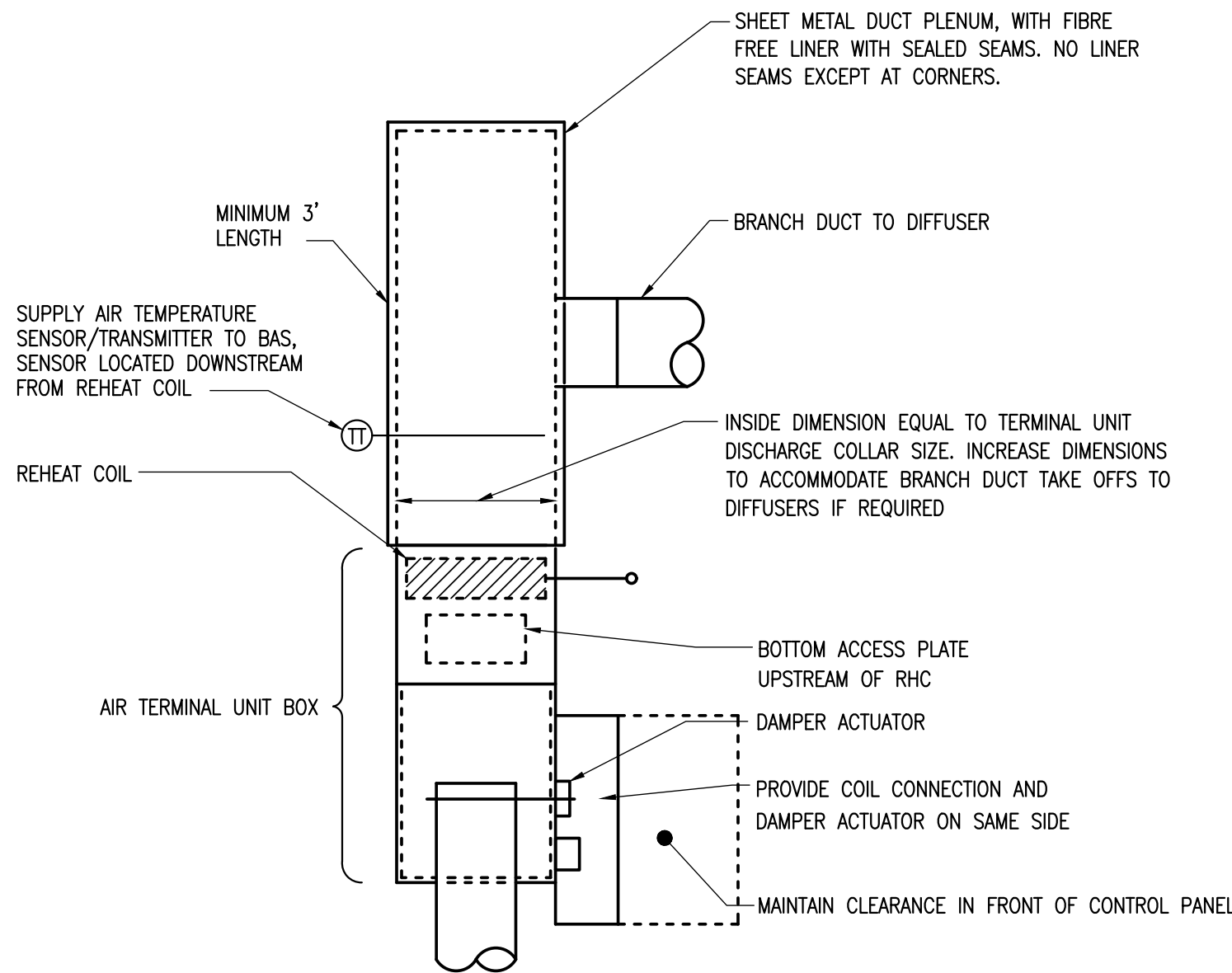
1 DETAIL - FANROOM R/A DUCTS

M505 SCALE: NONE



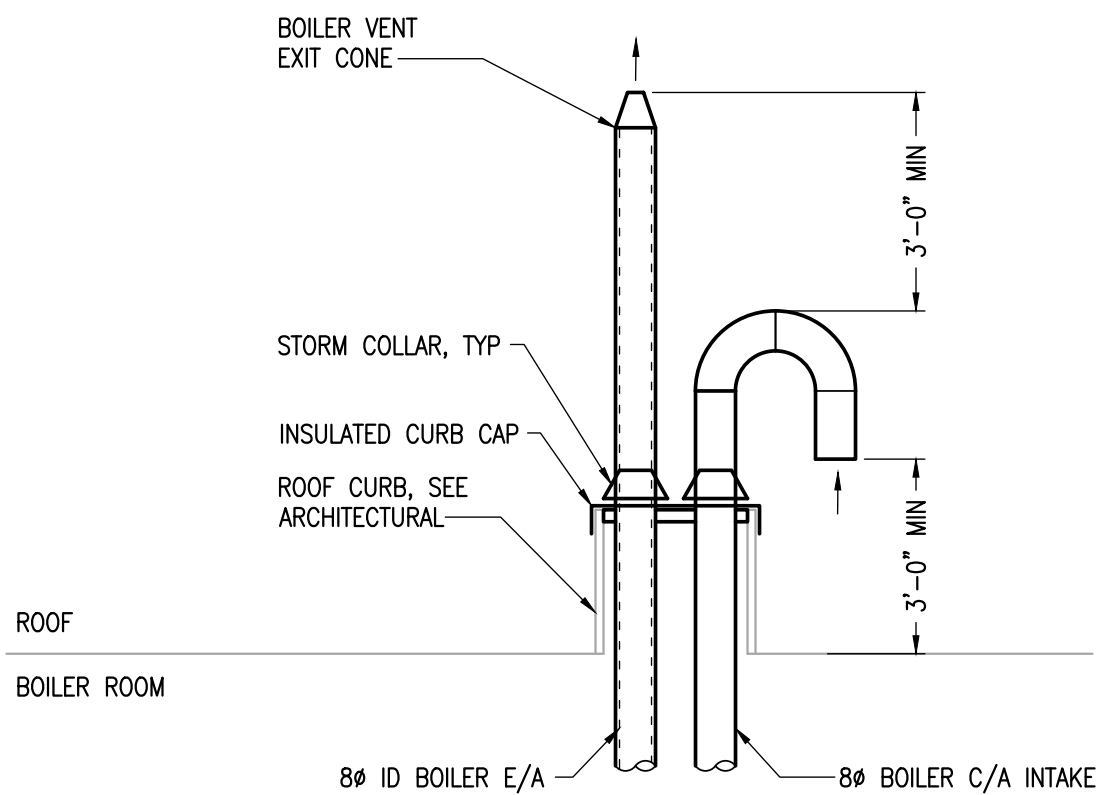
2 DETAIL - AHU-1/2 SUPPLY AIR PLENUM

M505 SCALE: NONE



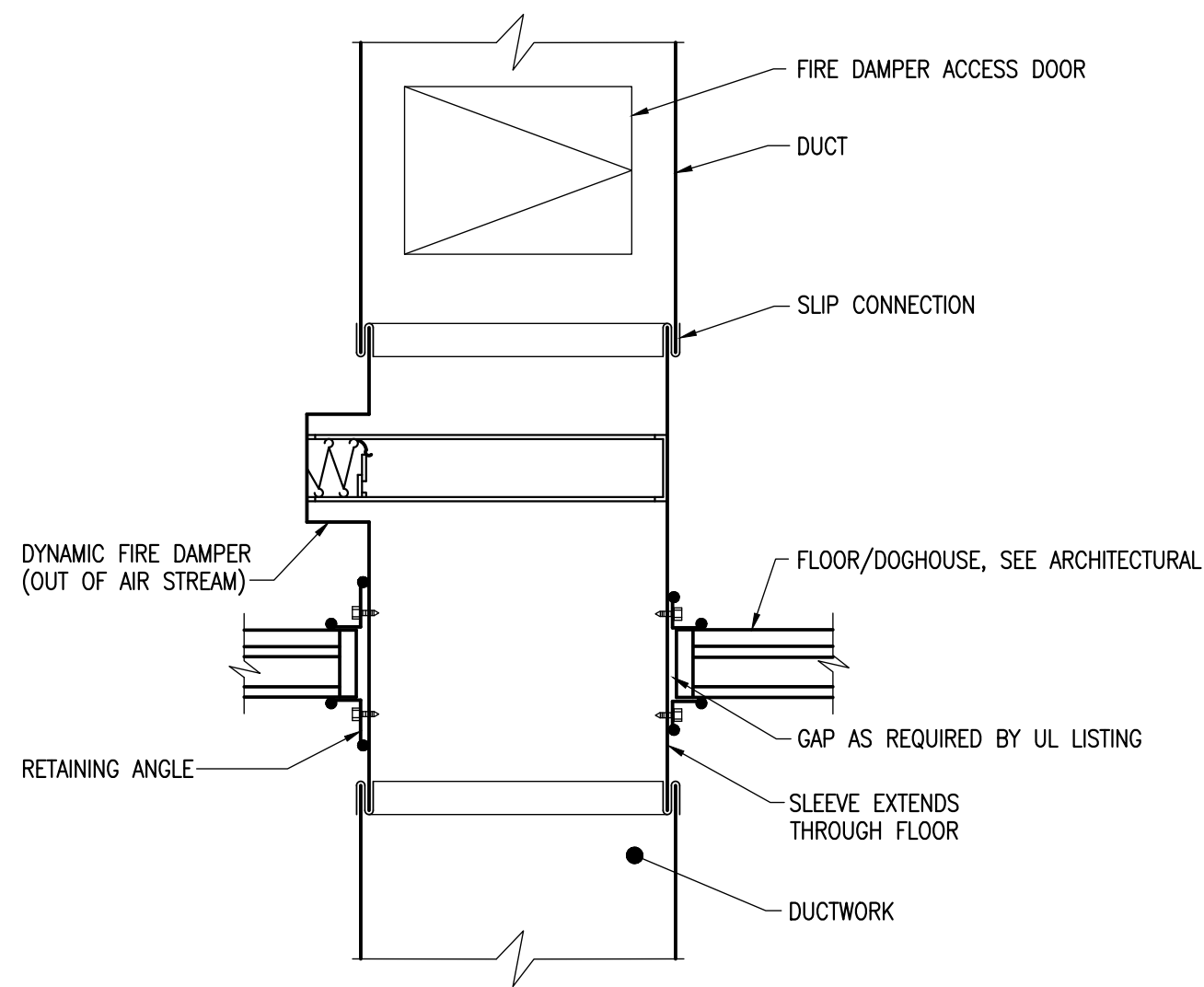
3 DETAIL - TYPICAL AIR TERMINAL UNIT

M505 SCALE: NONE



4 DETAIL - BOILER INTAKE AND VENT

M505 SCALE: NONE



NOTES

1. PROVIDE FIRE DAMPER INSTALLATION IN ACCORDANCE WITH MANUFACTURER'S UL LISTING.
2. SEAL DUCT CONNECTIONS TO DAMPER SLEEVE WITH DUCT SEALANT.

5 DETAIL - DUCTED FIRE DAMPER

M505 SCALE: NONE

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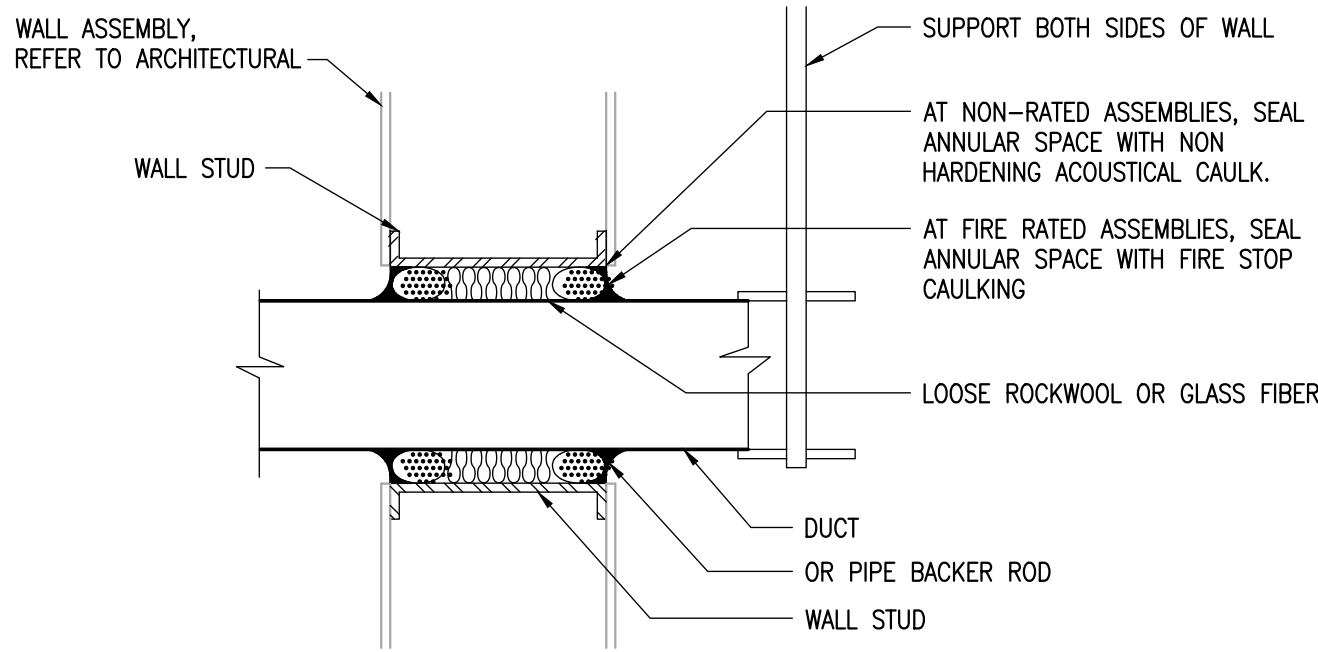
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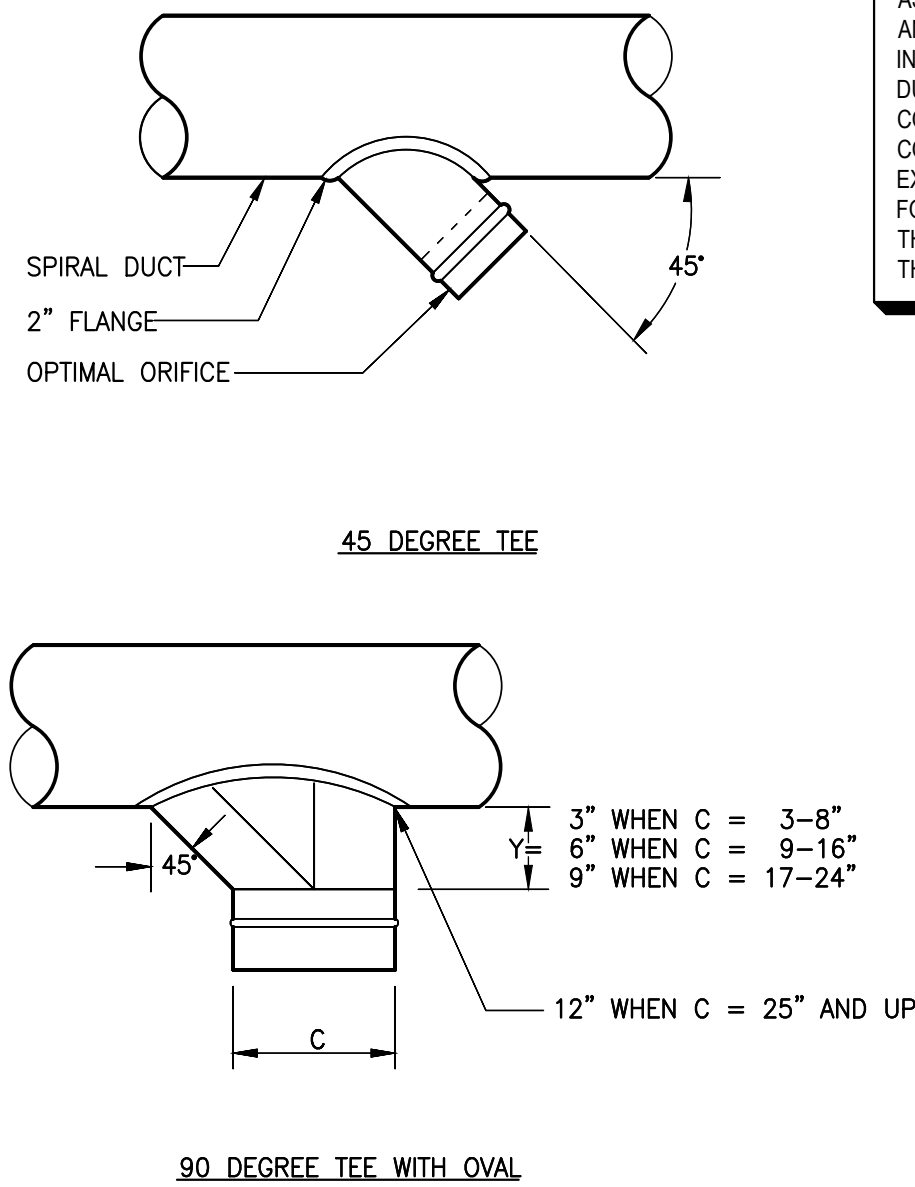
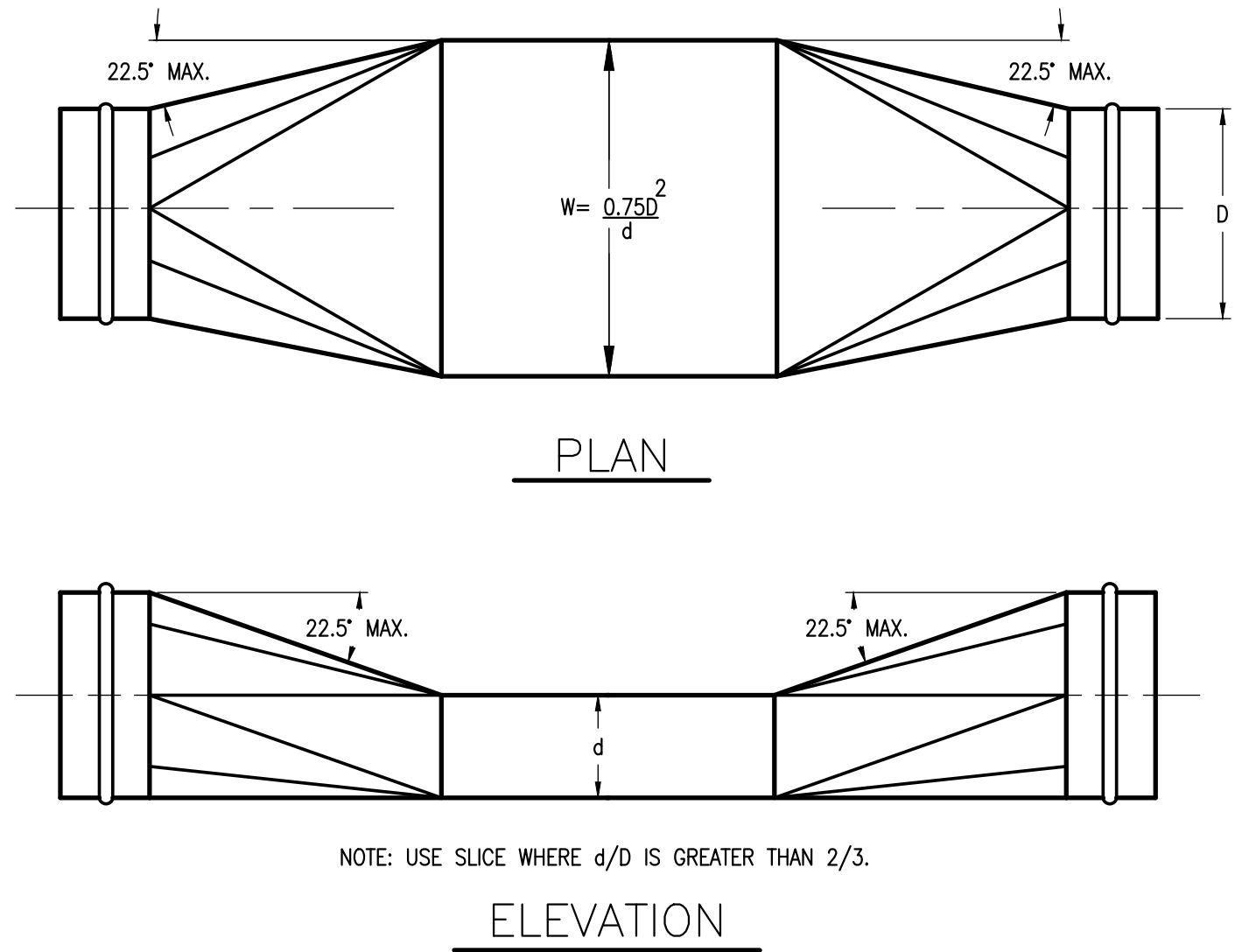
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VENTILATION

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M505



- NOTES
1. CAULKING SHALL FORM AIR-TIGHT SEAL AROUND DUCT.
  2. TERMINATE AND SEAL DUCT INSULATION ON BOTH SIDES OF WALL PENETRATION.
  3. PROVIDE DUCT SLEEVE FOR CONCRETE BLOCK WALL PENETRATION.



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www.amc-engineers.com  
Adams, Morgenthaler & Co., Inc.  
CoA No. C0342 - 907.257.9100  
701 E. Tudor Rd, Suite 250  
Anchorage, AK 99503

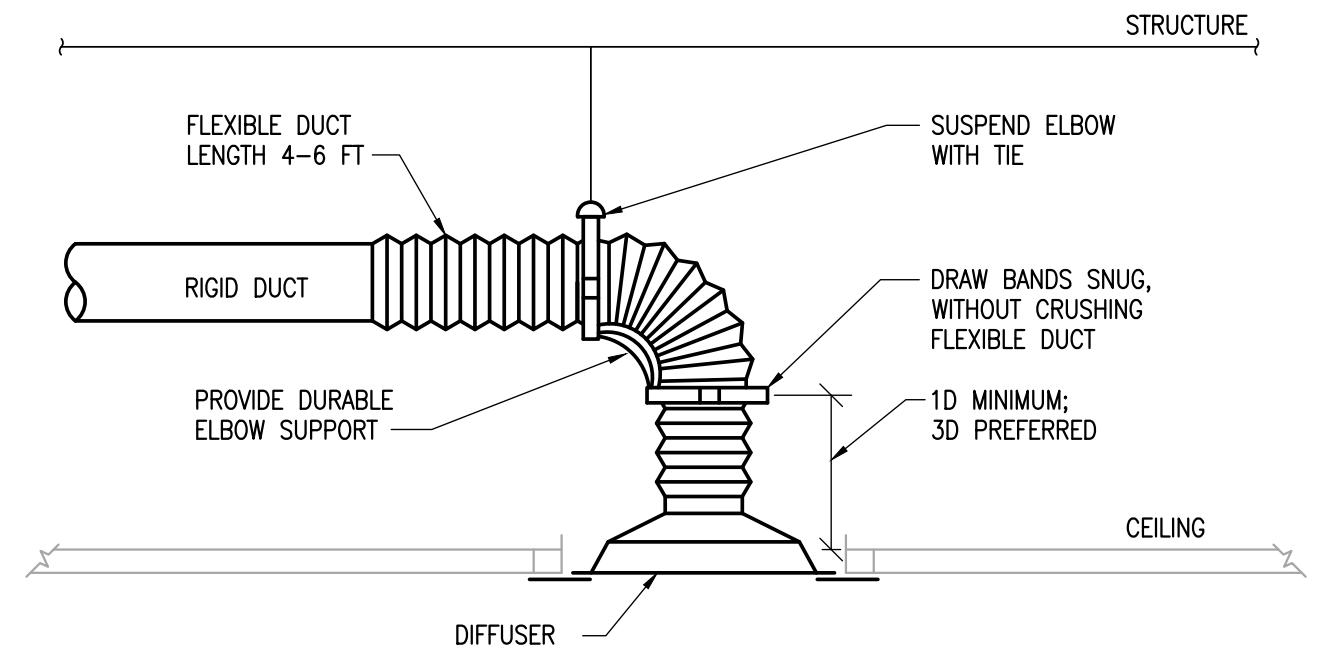
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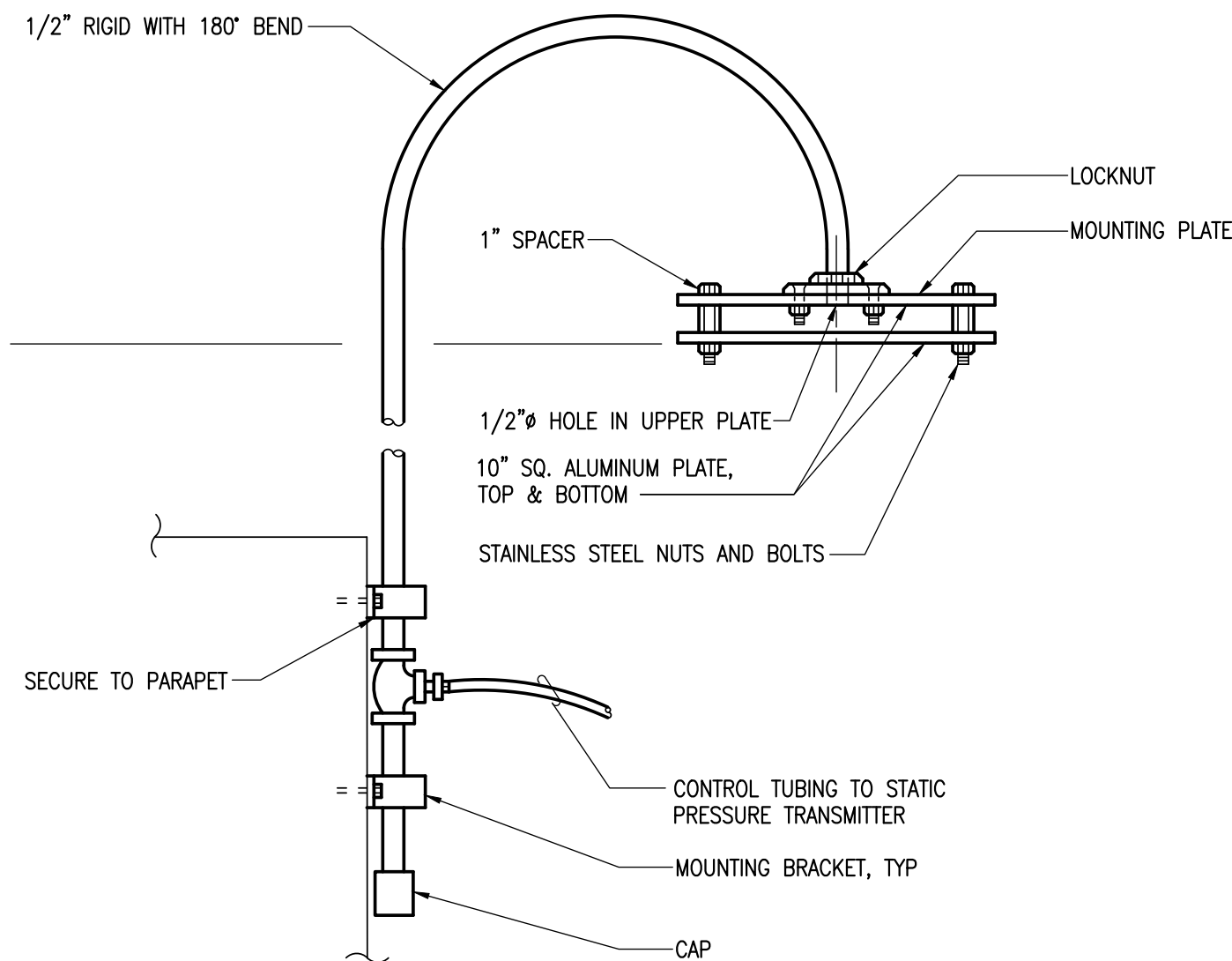
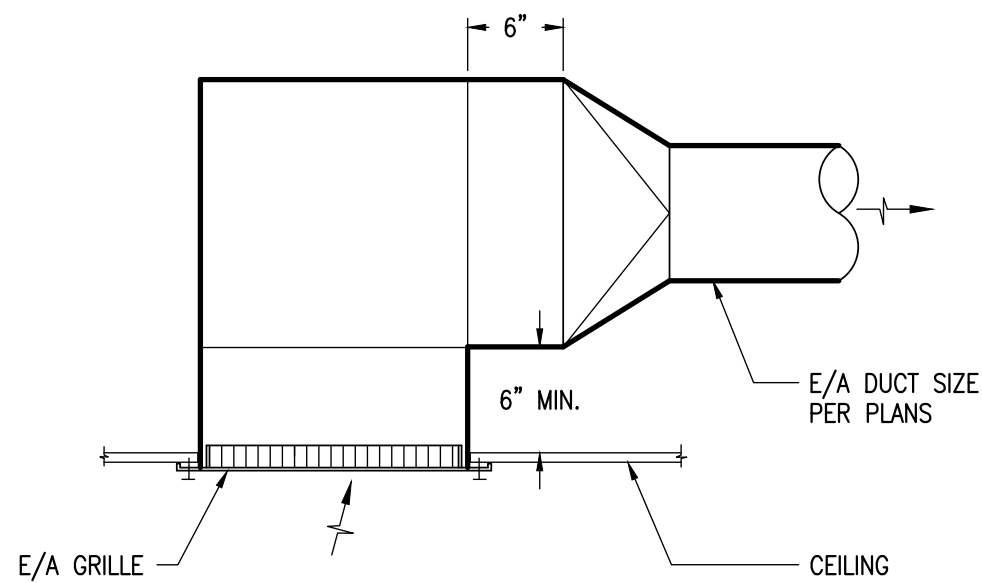
Tamara D. Hamler  
6/24/2022  
ME-9981  
REGISTERED PROFESSIONAL ENGINEER

21805

ALASKA COURT SYSTEM  
SNOWDEN ADMIN BUILDING  
MECHANICAL UPGRADES



- NOTES
1. WHEN LENGTH OF STRAIGHT DUCT UPSTREAM OF DIFFUSER IS LESS THAN 3D, PROVIDE AN EQUALIZING GRID.



Revisions		
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













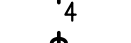

































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Project Phase  
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DETAILS -  
VENTILATION

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GENERAL		ABBREVIATIONS	LIGHTING		POWER		SPECIAL SYSTEMS	
SYMBOL	DESCRIPTION	ACS ACCESS CONTROL SYSTEM ACT ACOUSTIC CEILING TILE AFF ABOVE FINISHED FLOOR AFG ABOVE FINISHED GRADE AL ALUMINUM APPROX APPROXIMATE AHJ AUTHORITY HAVING JURISDICTION BAS BUILDING AUTOMATION SYSTEM CKT CIRCUIT CCTV CLOSED CIRCUIT TELEVISION CMH COMMUNICATIONS MANHOLE C CONDUIT C.O. CONDUIT ONLY CU COPPER (D) DEMOLISH DECEBEL EL EMERGENCY LIGHT ELU EMERGENCY LIGHTING UNIT ENL EMERGENCY NIGHT LIGHT EPD EQUIPMENT PROTECTION DEVICE ETR EXISTING TO REMAIN (E) EXISTING (F) FUTURE FAA FIRE ALARM ANNUNCIATOR FACP FIRE ALARM CONTROL PANEL FO FIBER OPTIC FOPP FIBER OPTIC PATCH PANEL FSD FIRE/SMOKE DAMPER HZ FREQUENCY HP HORSEPOWER IAW IN ACCORDANCE WITH K KELVIN KVA KILO VOLT-AMPS KW KILOWATT LCP LIGHTING CONTROL PANEL MCC MOTOR CONTROL CENTER MCP MOTOR CONTROL PANEL MDS MAIN DISTRIBUTION SWITCHBOARD MIN MINIMUM MM MULTIMODE FIBER OPTIC CABLE MSB MAIN SWITCHBOARD NTR MAIN TELECOM ROOM NEC NATIONAL ELECTRICAL CODE NFPA NATIONAL FIRE PROTECTION ASSOCIATION NL NIGHT LIGHT NC NORMALLY CLOSED NO NORMALLY OPEN N/A NOT APPLICABLE NIC NOT IN CONTRACT NTS NOT TO SCALE OFC OPTICAL FIBER CABLE OFCI OWNER FURNISHED, CONTRACTOR INSTALLED OFOI OWNER FURNISHED, OWNER INSTALLED PA PUBLIC ADDRESS PH PHASE (ELECTRICAL) PLC PROGRAMMABLE LOGIC CONTROLLER PMCS POWER MONITORING CONTROL SYSTEM SM SINGLEMODE FIBER OPTIC CABLE SMR SURFACE MOUNTED RACEWAY SPD SURGE PROTECTIVE DEVICE SSYS SPECIAL SYSTEMS TELECOM TELECOMMUNICATION TR TELECOMMUNICATION ROOM TYP TYPICAL UON UNLESS OTHERWISE NOTED VR VANDAL RESISTANT VSD VARIABLE SPEED DRIVE VAC VOLTS (ALTERNATING CURRENT) VDC VOLTS (DIRECT CURRENT) V VOLTS OR VOLTAGE W WATT WP WEATHERPROOF WG WIRE GUARD	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
 2.	SHEET NOTE CONVENTION: REFERENCED SHEET NOTE GENERAL SHEET NOTE		                                                					

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C13																							
LOCATION: LEVEL 1						VOLTS: 208/120 Wye						A.I.C. RATING: MATCH EXISTING											
FED FROM: MSB						PHASES: 3						MAINS TYPE: LUGS											
MOUNTING: FLUSH						WIRES: 4						RATING: 200A											
CKT#	CIRCUIT DESCRIPTION				AMP	POLE	VA - PHASE A	VA - PHASE B	VA - PHASE C	POLE	AMP	CIRCUIT DESCRIPTION				CKT#							
1	REC - VEST, ED COORD				20	1	900	660		1	20	REC - COMPUTER				2							
3	REC - PERS DIRECTOR				20	1		720	900		1	20	REC - PRINTER				4						
5	REC - PM WORK AREA				20	1			540	1200	1	20	REC - PRINTER				6						
7	REC - PM WORK AREA				20	1	360	1200			1	20	REC - PRINTER				8						
9	REC - PM WORK PERS ANALYST				20	1		900	1440		1	20	REC - TAPE EQUIPMENT				10						
11	EQPMT - PLANETARY CAMERA				20	1			900	1120	1	20	REC - TAPE EQUIPMENT				12						
13	EQPMT - PLANETARY CAMERA				20	1	580	360			1	20	REC - DARKROOM				14						
15	EQPMT - PLANETARY CAMERA				20	1		580	1200		1	20	REC - FILM PROCESSOR				16						
17	EQPMT - 3M CAMERA				20	1			580	1730	1	20	REC - DUPLICATOR				18						
19	EQPMT - 3M CAMERA				20	1	580	1500			1	20	REC - DUPLICATOR				20						
21	REC - MICROGRAPHICS				20	1		180	1200		1	20	REC - READER PRINTER				22						
23	EQPMT - EF500 CAMERA				20	1			580	1200	1	20	REC - READER PRINTER				24						
25	EQPMT - EF500 CAMERA				20	1	580	1200			1	20	REC - READER PRINTER				26						
27	EQPMT - ZONE VALVE XFMR C2				20	1		580	900		1	20	REC - SUPERVISOR				28						
29	REC - 145 SOUTH				20	1			180	180	1	20	REC - BREAK AREA				30						
31	REC - 145 SOUTH				20	1	540	540			1	20	REC - BREAK AREA				32						
33	REC - COPIER IBM				30	2		180			1	20	SPARE TO C2 FL1 WEST				34						
35	---				---	---					1	20	SPARE				36						
37	EQPMT - WATER HEATER WH-2				70	2	5304				3	15	SPARE				38						
39	---				---	---		5304			---	---	-----				40						
41	TP-1 - FAN ROOM 226								180		---	---	-----				42						
PANEL						PHASE A						PHASE B						PHASE C					
						14.3 kVA						14.1 kVA						8.6 kVA					
						119 A						117 A						71 A					
LOAD TYPE		CONNECTED LOAD		DEMAND FACTOR		TOTAL LOAD WITH NEC FACTORS		PANEL TOTALS															
CONTINUOUS		10788 VA		125%		13485																	
LIGHTING		0 VA		100%		0																	
MOTOR		0 VA		0%		0																	
NON-CONTINUOUS		4960 VA		100%		4960																	
RECEPTACLE		21210 VA		74%		15605																	
LOAD TYPE		0 VA		55%		0																	
NOTES: EXISTING LOADS ARE ESTIMATED BASED ON AS-BUILT DRAWINGS AND LIMITED FIELD OBSERVATIONS																							
BOLD TEXT INDICATES CHANGES MADE UNDER THIS PROJECT																							

LIGHTING FIXTURE SCHEDULE							
TYPE	DESCRIPTION			COLOR TEMP	LUMENS	POWER (W)	MOUNTING
A	LITHONIA 2BLT4-48L-ADSM-EZ1-LP840 2'X4', LED TROFFER, ACRYLIC REFRACTOR, ACRYLIC DIFFUSERS, DAMP LOCATION SUITABLE, MULTIVOLT.			4000K	4800	38	RECESSED CEILING NOTE 2, 4
A2	LITHONIA 2BLT4-60L-ADSM-EZ1-LP840 SAME AS TYPE A BUT WITH 6000 LUMEN PACKAGE			4000K	6000	46	RECESSED CEILING NOTE 2, 4
B	LITHONIA LDN6-AL01-SW1-L06-AR-LS-MVOLT-UGZ1 6" DIAMETER, RECESSED LED, STEEL HOUSING, 55 DEGREE CUTOFF, SWITCHABLE LUMENS AND COLOR TEMPERATURE			4000K	1000	13	RECESSED CEILING NOTE 4, 9
C	KELVIX PQ35K-WR-24V LED TAPE, INDOOR/OUTDOOR USE, 24V POWER SUPPLY, DIMMABLE, 90+ CRI			3500K	551/FT	2.6/FT	SURFACE NOTE 7
D	JUNO R60SL-40K-80CRI-PDIM-FL-WH LED CYLINDER TRACK LIGHT, DIE CAST ALUMINUM BODY, FLOOD DISTRIBUTION, PHASE DIMMABLE			4000K	1034	10.5	TRACK NOTE 8
Z	LITHONIA CSS-L48-AL03-MVOLT-SWW3-80CRI 4' STRIPLIGHT, SYMMETRIC REFLECTOR, ACRYLIC DIFFUSE LENS, WHITE FINISH. SWITCHABLE LUMENS AND COLOR TEMPERATURE.			4000K	5000	44	SURFACE CEILING OR SUSPENDED NOTE 2, 3, 4, 9
SA	BEACON VP-Micro Strike-1-160L-50-4K8-4W-UNV-A-BLS; MTG-WB-BLS 14.4"x21.8", AREA/SITE LED, WIDE DISTRIBUTION, BLACK GLOSS FINISH, 120-277VAC			4000K	21000	160	WALL MOUNT NOTE 5
SB	BEACON VP-Micro Strike-1-160L-50-4K8-4F-UNV-A-BLS; MTG-ASQU-BLS; 14.4"x21.8", AREA/SITE LED, FORWARD THROW DISTRIBUTION, BLACK GLOSS FINISH, 120-277VAC			4000K	21000	160	POLE MOUNT NOTE 6
SC	LITHONIA WDGES3 LED-P2-40K-80CRI-RFT-MVOLT-SRM-DBLXD 18"x9", LED WALL MOUNT LUMINAIRE, DIE-CAST ALUMINUM HOUSING, POWDER COAT FINISH, FORWARD THROW MEDIUM, BLACK FINISH			4000K	8597	59	WALL MOUNT
EX	LITHONIA LQM-S-W-3-R-MVOLT-EL-N-SD; ELA-WG1 EXIT SIGN, STENCIL FACE TYPE, 1 OR 2 FACES AS SHOWN ON DRAWINGS, RED LETTER COLOR, ARROWS AS SHOWN ON DRAWINGS.			N/A	N/A	1	WALL OVER DOOR OR CEILING AS NOTED NOTE 2
FIXTURE SCHEDULE NOTES							
1 REFER TO SPECIFICATION SECTION 26500 FOR ADDITIONAL REQUIREMENTS REGARDING LIGHT FIXTURES, LED LAMPS AND DRIVERS.							
2 PROVIDE AN UNSWITCHED CIRCUIT CONNECTION (CIRCUIT AS NOTED ON DRAWINGS) TO ALL EXIT SIGNS AND EMERGENCY LIGHTING FIXTURES.							
3 SURFACE CEILING MOUNT FIXTURES IN ROOMS/AREAS WITH CEILINGS. IN AREAS WITHOUT CEILINGS, PENDANT FIXTURES DOWN FROM BOTTOM OF STRUCTURE TO HEIGHT INDICATED. IN AREAS WITH MECHANICAL EQUIPMENT, DUCTWORK AND PIPING, PENDANT FIXTURES DOWN TO BOTTOM OF MECHANICAL DUCTWORK OR PIPING AS APPROPRIATE. FIXTURE PENDANTS SHALL BE RIGID (THREADED HANGAR RODS) AND SHALL BE SWAY BRACED WHERE PENDANTS EXCEED 24 INCHES IN LENGTH.							
4 PROVIDE BATTERY PACK OPTION FOR EMERGENCY FIXTURES (OPTION E10WLCP FOR TYPE A AND A2; OPTION E10WCP FOR TYPE B, OPTION IE10WCPHE FOR TYPE Z).							
5 ORDER WITH WALL MOUNT ACCESSORY BEACON CATALOG # MTG-WB-BLS							
6 ORDER WITH POLE MOUNT ACCESSORY BEACON CATALOG # MTG-ASQU-BLS, LIGHT POLE BEACON CATALOG # SSS-B-30-40-B-1-BLS-UL HOUSE SIDE SHIELD BEACON CATALOG # SHD-1-HSS-90-S-BLS, AND VIBRATION DAMPER BEACON CATALOG # VM1							
7 ORDER WITH KELVIX CHANNEL CATALOG # CH502A-CL-PV-EC, AND KELVIX POWER SUPPLY CATALOG # ULV96							
8 ORDER WITH JUNO TRACK CATALOG # T-4FT-WH, AND JUNO FLOATING ELECTRICAL FEED CATALOG # T29-WH							
9 ADJUST INTEGRATED LUMEN/CCT SWITCH ON FIXTURE TO VALUES SHOWN IN LIGHTING FIXTURE SCHEDULE.							

C21																			
LOCATION: TELECOM RM						VOLTS: 208/120 Wye						A.I.C. RATING: MATCH EXISTING							
FED FROM: MSB						PHASES: 3						MAINS TYPE: LUGS							
MOUNTING: FLUSH						WIRES: 4						RATING: 200A							
CKT#	CIRCUIT DESCRIPTION					AMP	POLE	VA - PHASE A	VA - PHASE B	VA - PHASE C	POLE	AMP	CIRCUIT DESCRIPTION					CKT#	
1	LTG - OPEN OFFICE HALL					20	1	960	720			3	20	REC - WAITING					2
3	LTG - ST.RULES, PURCH					20	1		960	540		--	--	REC - PURCH AGENT 11					4
5	LTG - MECH, DUPL BREAK					20	1			960	900	--	--	REC - TELECOM					6
7	LTG - FISCAL CLERICAL					20	1	960	900			1	20	REC - TELECOM					8
9	LTG - ACCT. FISCAL PLA					20	1		960	720		1	20	REC - MECH ROOM					10
11	LTG - CLERICAL CIRC					20	1			960	540	1	20	REC - DUPLICATING MAIL					12
13	LTG - LAW CL, MAG CNC					20	1	960	1200			1	20	REC - DUL, BREAK RM					14
15	STEAM					20	1		1200	540		1	20	REC - BREAK RM					16
17	STEAM					20	1			1200	540	1	20	REC - BREAK RM					18
19	STEAM					20	1	1200	720			1	20	REC - OPEN OFFICE					20
21	HUMIDIFIER					20	1		1200	540		1	20	REC - PURCH AGENT 1					22
23	PWR - CL-2ND FLR, WEST					20	1			1200	900	1	20	REC - OPEN OFFICE					24
25	REC - DUPLICATION SHREDDER					20	1	1200	540			1	20	REC - AD STOR, ST RULE					26
27	AC-1, TELECOM ROOM					20	2		1144	720		1	20	REC - FAX AREA					28
29	-----					---	---			1144	720	1	20	REC - FAX AREA					30
31	AHU-1, SUPPLY FAN 1 (SHP)					35	3	2102	900			1	20	REC - OPEN OFFICE					32
33	-----					---	---		2102	720		1	20	REC - OPEN OFFICE WAITING					34
35	-----					---	---			2102	1000	1	20	PWR - CONTROL PANEL 227b					36
37	AHU-1, SUPPLY FAN 2 (SHP)					35	3	2102	1000			1	20	REC - COPIER					38
39	-----					---	---		2102			1	20	SPARE					40
41	-----					---	---			2102		1	20	SPARE					42
PANEL						LOAD AMPS	PHASE A		PHASE B		PHASE C								
							15.5 kVA	13.4 kVA	14.3 kVA										
							129 A	112 A		119 A									
LOAD TYPE		CONNECTED LOAD		DEMAND FACTOR		TOTAL LOAD WITH NEC FACTORS													
CONTINUOUS		0 VA		125%		0													
LIGHTING		0 VA		100%		0													
MOTOR		14897 VA		111%		16473													
NON-CONTINUOUS		0 VA		100%		0													
RECEPTACLE		28280 VA		68%		19140													
LOAD TYPE		0 VA		55%		0													
NOTES: EXISTING LOADS ARE ESTIMATED BASED ON AS-BUILT DRAWINGS AND LIMITED FIELD OBSERVATIONS																			
BOLD TEXT INDICATES CHANGES MADE UNDER THIS PROJECT																			

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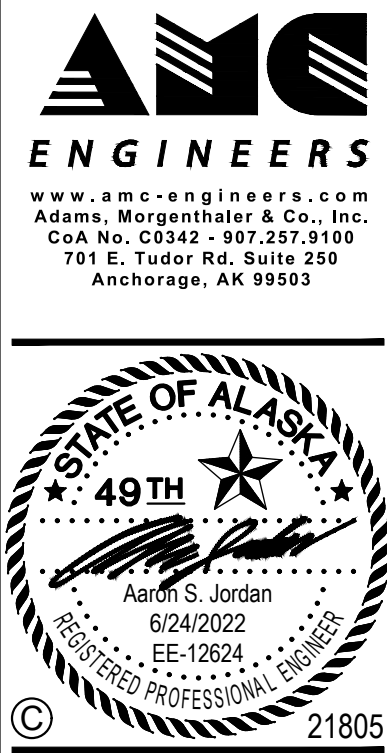
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## MOA ePlans Stamp

## NOTIFICATION OF POTENTIAL HAZARDS

ASBESTOS, LEAD, AND OTHER HAZARDOUS MATERIALS ARE PRESENT IN THE BUILDING AND MAY IMPACT THE WORK OF ALL TRADES. REGULATED AIR CONTAMINANTS, INCLUDING ASBESTOS AND LEAD, ARE ALSO PRESENT IN SETTLED AND CONCEALED DUST IN AND ON ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL COMPONENTS OR SYSTEMS THROUGHOUT THE BUILDING. ALL TRADES SHALL COORDINATE WITH OTHER TRADES AND CONDUCT THEIR WORK TO PREVENT WORKER EXPOSURE OR SITE CONTAMINATION. REFER TO SPECIFICATION DIVISIONS 0, 1, AND 2 FOR SPECIFIC INFORMATION CONCERNING DISTURBING, REMOVING, AND DISPOSING OF THESE MATERIALS AND THE INSTALLATION OF THE NEW MATERIALS OR COMPONENTS. THIS NOTIFICATION IS PROVIDED IN ACCORDANCE WITH EPA AND OSHA REQUIREMENTS.



# ALASKA COURT SYSTEM SNOWDEN ADMIN BUILDING MECHANICAL UPGRADES

Revisions		
No.	Date	Description

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Designed by:	ASJ
Checked by:	KAC
AMC Project:	21805

Date: 6/24/2022

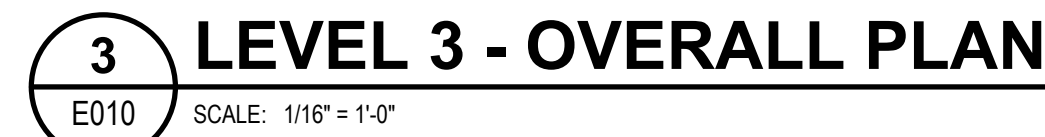
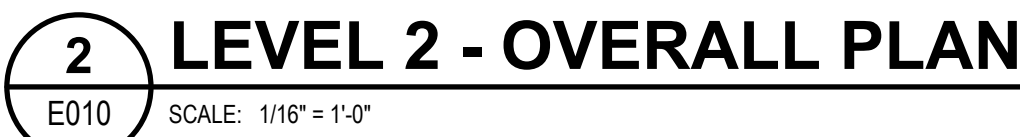
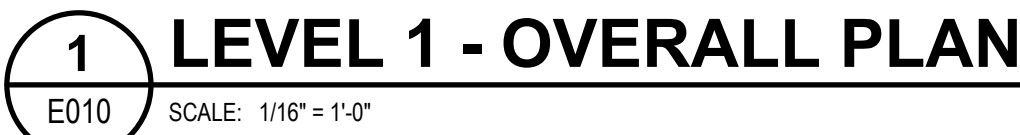
Project Phase  
**PERMIT DRAWINGS**

Sheet Title  
PANEL SCHEDULES

Sheet Number

# E003

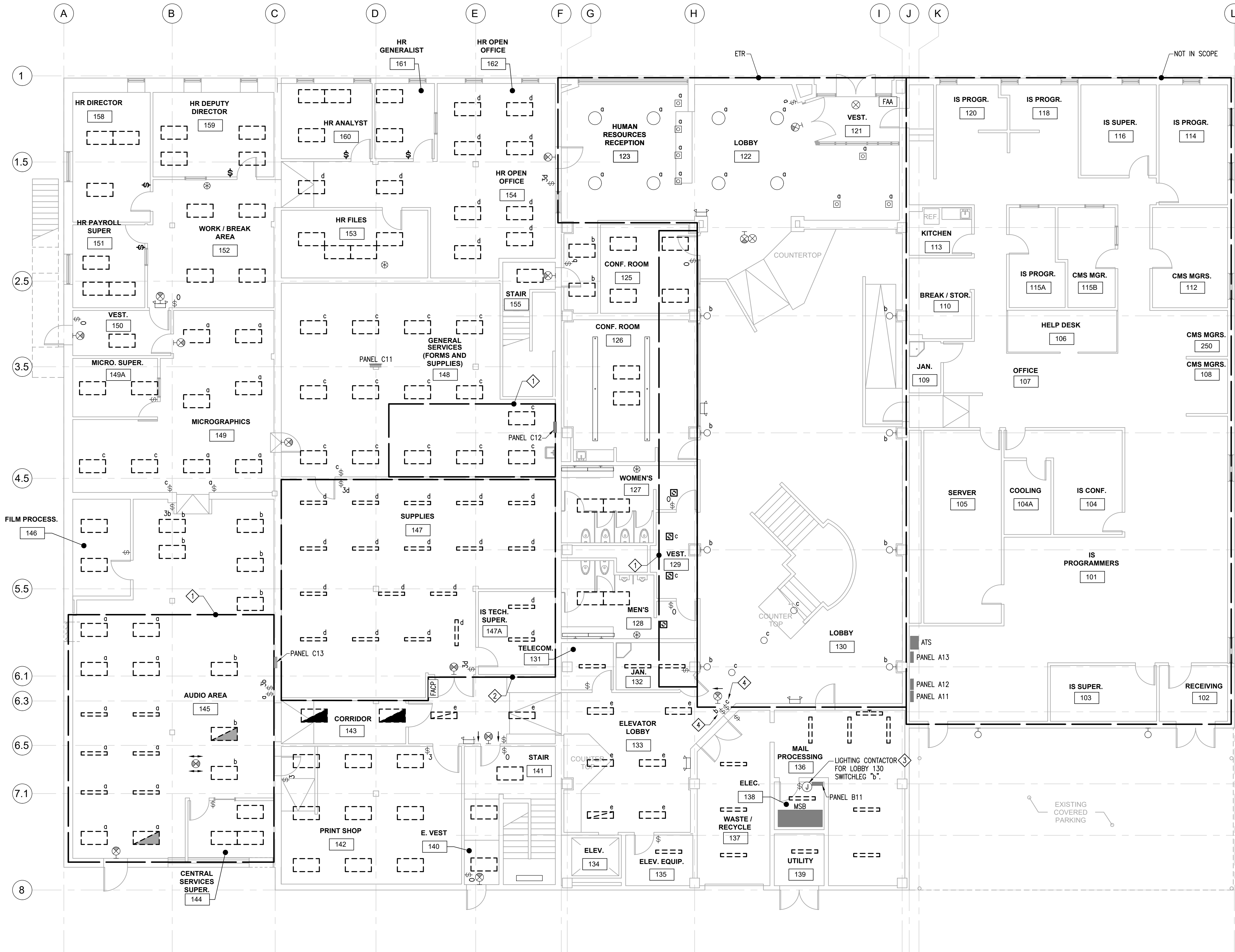




# E010



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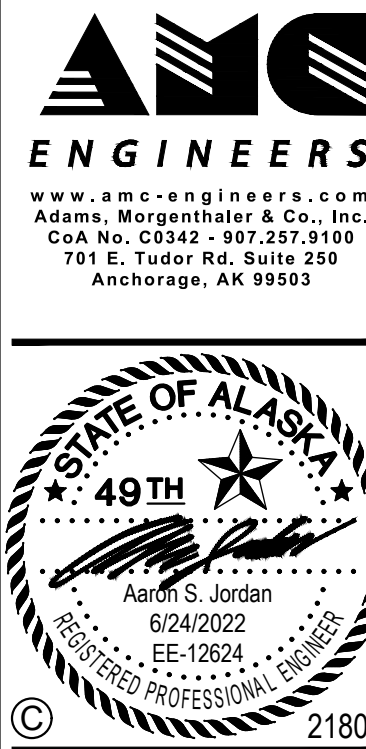
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#### NOTIFICATION OF POTENTIAL HAZARDS

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#### DEMOLITION NOTES

- BASE BID: REMOVE AND RETAIN EXISTING RECESSED LIGHTING FIXTURES AS REQUIRED TO FACILITATE THE REMOVAL OF THE ABOVE CEILING MECHANICAL EQUIPMENT AND/OR DUCT WORK. STORE FIXTURES IN A SAFE PLACE FOR REINSTALLATION IAW SHEET E201.
- ALTERNATE #2: DEMOLISH EXISTING LIGHTING FIXTURES LOCATED IN ACT. RETAIN EXISTING LIGHTING CIRCUITS FOR RE-CONNECTION TO NEW LIGHTING PROVIDED IAW SHEET E201.
- BASE BID: DEMOLISH EXISTING SURFACE MOUNTED FIXTURES, RETAIN EXISTING CIRCUITS FOR RECONNECTION IAW SHEET E201.
- BASE BID: LIGHT SWITCH CONTROLS DOWN LIGHTS IN LEVEL 2 SOFFIT VIA CONTACTOR IN ELEC ROOM 138. REFER TO SHEET E101 FOR CONTACTOR LOCATION, AND E102 FOR LIGHT LOCATIONS.
- BASE BID: LIGHT SWITCH CONTROLS PENDANT LIGHTS ON LEVEL 3 LOBBY CEILING, DOWN LIGHTS UNDER STAIRS IN LOBBY, AND DOWN LIGHTS IN VESTIBULE 129 VIA CONTACTOR IN MECH ROOM 307. REFER TO SHEET E302 FOR CONTACTOR LOCATION, AND E203 FOR LIGHT LOCATIONS.
- UON DEMOLITION ON THIS SHEET SHALL BE ALTERNATE #2.
- ALTERNATE #2: DEMOLISH EXISTING LIGHTING FIXTURES LOCATED IN ACT. RETAIN EXISTING LIGHTING CIRCUITS FOR RE-CONNECTION TO NEW LIGHTING PROVIDED IAW SHEET E201. REFER TO ARCHITECTURAL RCP PLANS FOR ADDITIONAL INFORMATION.



## ALASKA COURT SYSTEM SNOWDEN ADMIN BUILDING MECHANICAL UPGRADES

#### Revisions

No.	Date	Description

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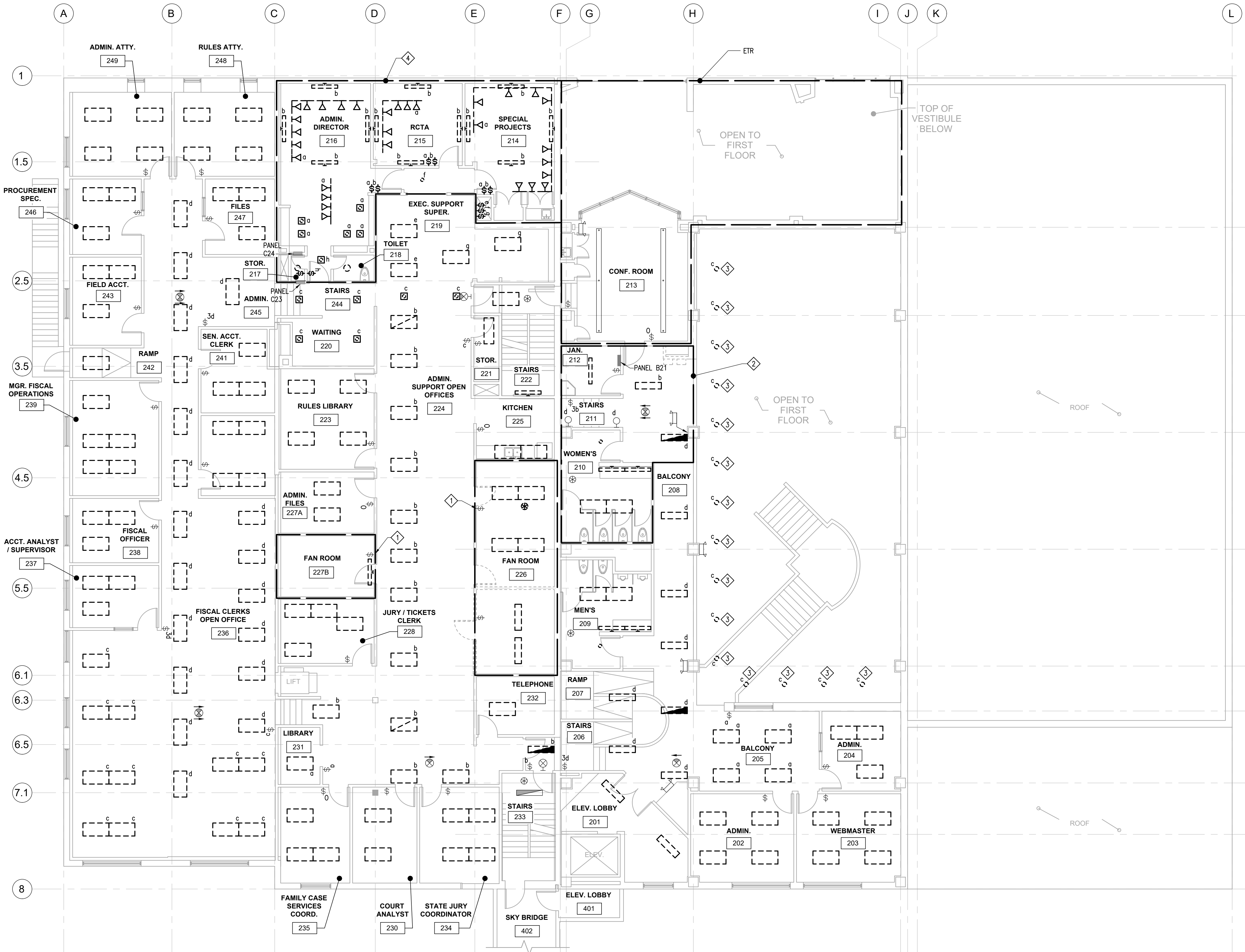
Designed by: ASJ  
Checked by: KAC  
AMC Project: 21805  
Date: 6/24/2022  
Project Phase  
**PERMIT DRAWINGS**

Sheet Title  
LEVEL 1 - LIGHTING  
- DEMOLITION

Sheet Number

**E101**

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NOTIFICATION OF POTENTIAL HAZARDS

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- DEMOLITION NOTES
- 1

BASE BID: DEMOLISH EXISTING LIGHTING FIXTURES AND ASSOCIATED CONTROL SWITCHES IN EXISTING FAN ROOMS. RETAIN EXISTING LIGHTING CIRCUITS FOR RE-CONNECTION TO NEW LIGHTING PROVIDED IAW SHEET E202.
- 2

BASE BID: REMOVE AND RETAIN EXISTING RECESSED LIGHTING FIXTURES AS REQUIRED TO FACILITATE THE REMOVAL OF THE ABOVE CEILING MECHANICAL EQUIPMENT AND/OR DUCT WORK. STORE FIXTURES IN A SAFE PLACE FOR REINSTALLATION IAW SHEET E202.
- 3

ALTERNATE #2: DEMOLISH EXISTING LIGHTING FIXTURES LOCATED IN ACT. RETAIN EXISTING LIGHTING CIRCUITS FOR RE-CONNECTION TO NEW LIGHTING PROVIDED IAW SHEET E202.
- 4

BASE BID: SEE SHEET E101 FOR LOCATION OF LIGHTING CONTROL SWITCH.
- 5

BASE BID: DEMOLISH EXISTING LIGHTING FIXTURES, RETAIN EXISTING CIRCUITS FOR RECONNECTION IAW SHEET E202.
- 6

UN DEMOLITION ON THIS SHEET SHALL BE ALTERNATE #2. ALTERNATE #2: DEMOLISH EXISTING LIGHTING FIXTURES LOCATED IN ACT. RETAIN EXISTING LIGHTING CIRCUITS FOR RE-CONNECTION TO NEW LIGHTING PROVIDED IAW SHEET E202. REFER TO ARCHITECTURAL RCP PLANS FOR ADDITIONAL INFORMATION.

AMC ENGINEERS

www.amc-engineers.com  
Adams, Morgenthaler & Co., Inc.  
CoA No. C0342 - 907.257.9100  
701 E. Tudor Rd., Suite 250  
Anchorage, AK 99503

STATE OF ALASKA

49TH

Aaron S. Jordan  
6/24/2022  
EE-12624  
REGISTERED PROFESSIONAL ENGINEER

21805

ALASKA COURT SYSTEM  
SNOWDEN ADMIN BUILDING  
MECHANICAL UPGRADES

Revisions

No.	Date	Description

1 INCH AT FULL SIZE

IF NOT 1 INCH, SCALE ACCORDINGLY

Designed by:

ASJ

Checked by:

KAC

AMC Project:

21805

Date:

6/24/2022

Project Phase

PERMIT DRAWINGS

Sheet Title

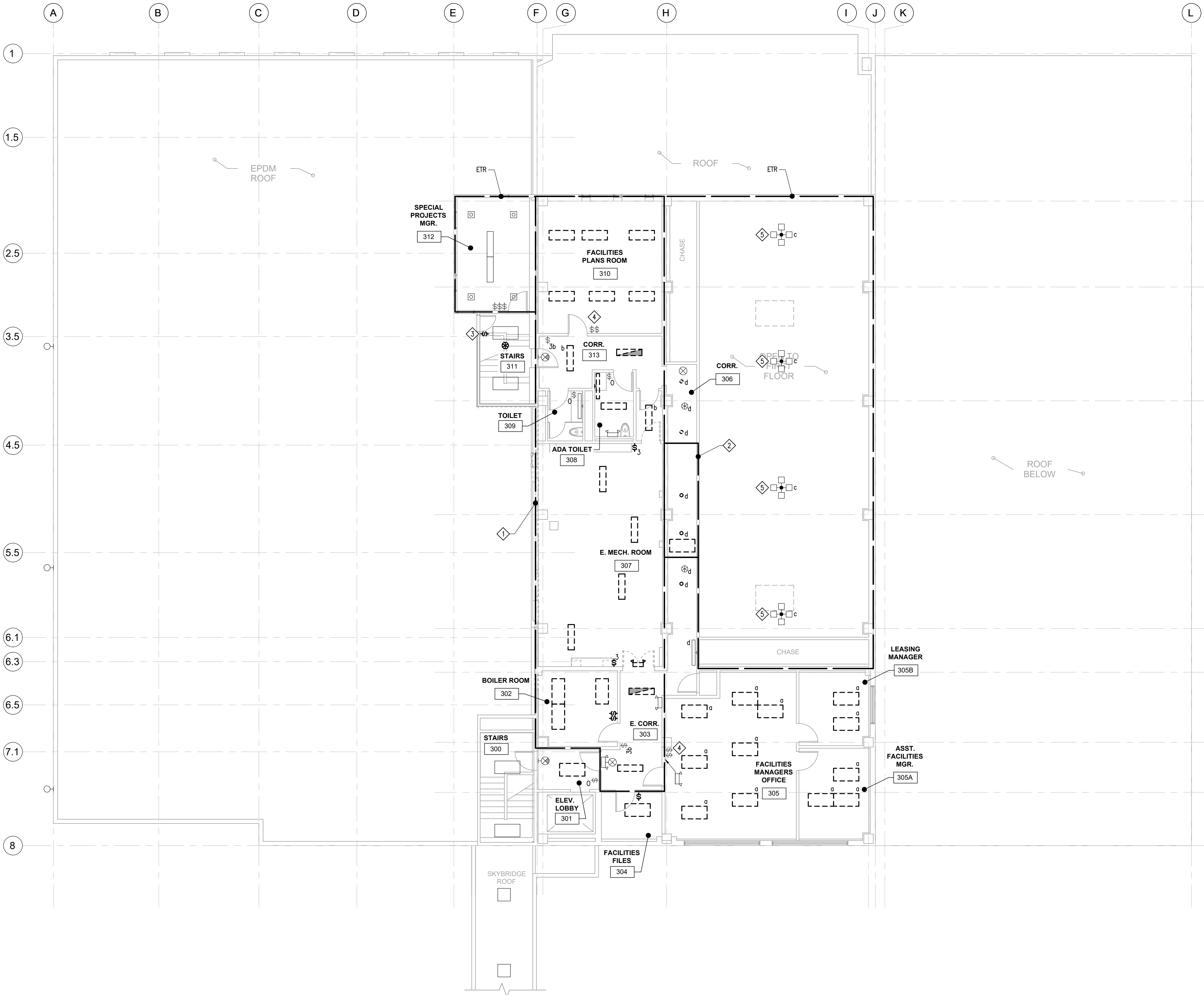
LEVEL 2 - LIGHTING  
- DEMOLITION

Sheet Number

E102



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NOTIFICATION OF POTENTIAL HAZARDS

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DEMOLITION SHEET NOTES

- BASE BID: DEMOLISH EXISTING LIGHTING FIXTURES AND ASSOCIATED CONTROL SWITCHES IN EXISTING FAN ROOM, OFFICES, TOILET ROOMS AND CORRIDORS.
- BASE BID: REMOVE AND RETAIN EXISTING RECESSED LIGHTING FIXTURES AS REQUIRED TO FACILITATE THE REMOVAL OF THE ABOVE CEILING MECHANICAL EQUIPMENT AND/OR DUCT WORK. STORE FIXTURES IN A SAFE PLACE FOR REINSTALLATION IAW SHEET E203.
- ALTERNATE #2: DEMOLISH EXISTING LIGHTING FIXTURES LOCATED IN ACT. RETAIN EXISTING LIGHTING CIRCUITS FOR RE-CONNECTION TO NEW LIGHTING PROVIDED IAW SHEET E203.
- BASE BID: DEMOLISH EXISTING EXTERIOR ROOF LIGHT SWITCH. PROVIDE NEW SWITCH IAW SHEET E203.
- DUAL LIGHT SWITCHES CONTROL IN-BOARD AND OUT-BOARD BALLASTS. RECONFIGURE SWITCHING IAW SHEET E203.
- BASE BID: SEE SHEET E101 FOR LOCATION OF LIGHTING CONTROL SWITCH.
- UN DEMOLITION ON THIS SHEET SHALL BE ALTERNATE #2.
- ALTERNATE #2: DEMOLISH EXISTING LIGHTING FIXTURES LOCATED IN ACT. RETAIN EXISTING LIGHTING CIRCUITS FOR RE-CONNECTION TO NEW LIGHTING PROVIDED IAW SHEET E203. REFER TO ARCHITECTURAL RCP PLANS FOR ADDITIONAL INFORMATION.

ALASKA COURT SYSTEM  
SNOWDEN ADMIN BUILDING  
MECHANICAL UPGRADES

Revisions

No.	Date	Description

1 INCH AT FULL SIZE  
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SCALE ACCORDINGLY

Designed by: ASJ  
Checked by: KAC  
AMC Project: 21805  
Date: 6/24/2022  
Project Phase  
PERMIT DRAWINGS

Sheet Title  
LEVEL 3 - LIGHTING  
- DEMOLITION

Sheet Number

E103

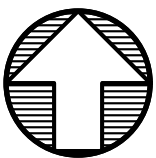


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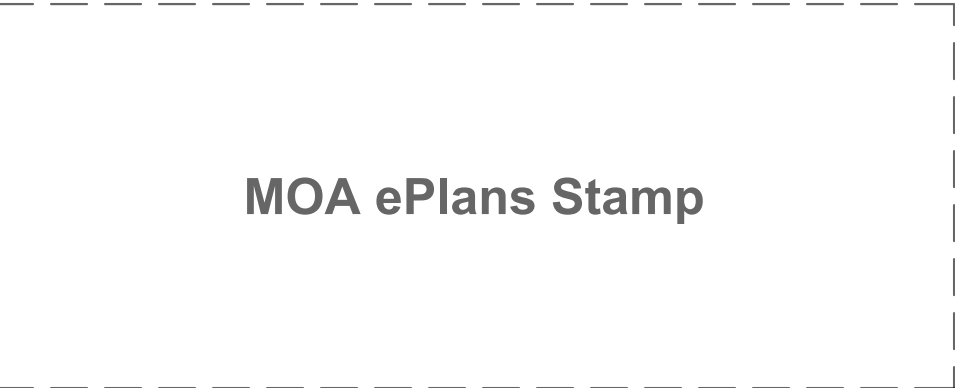
1 LEVEL 3 - LIGHTING - DEMOLITION

E103 SCALE: 1/8" = 1'-0"

0 4' 8' 16' 24'



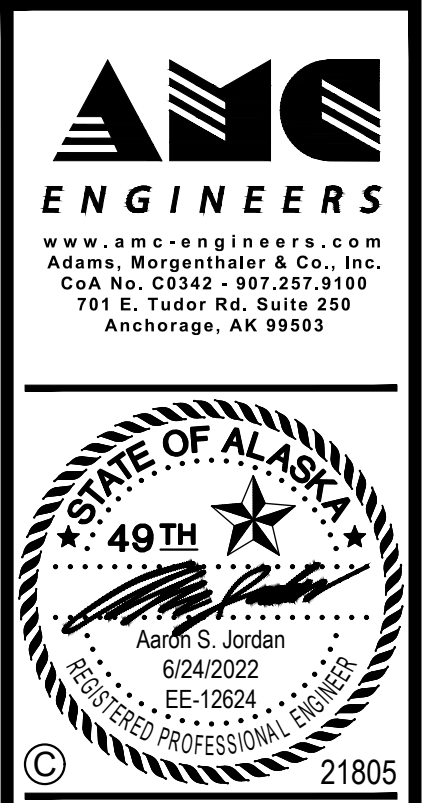
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**NOTIFICATION OF POTENTIAL HAZARDS**

ASBESTOS, LEAD, AND OTHER HAZARDOUS MATERIALS ARE PRESENT IN THE BUILDING AND MAY IMPACT THE WORK OF ALL TRADES. REGULATED AIR CONTAMINANTS, INCLUDING ASBESTOS AND LEAD, ARE ALSO PRESENT IN SETTLED AND CONCEALED DUST IN AND ON ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL COMPONENTS OR SYSTEMS THROUGHOUT THE BUILDING. ALL TRADES SHALL COORDINATE WITH OTHER TRADES AND CONDUCT THEIR WORK TO PREVENT WORKER EXPOSURE OR SITE CONTAMINATION. REFER TO SPECIFICATION DIVISIONS 0, 1, AND 2 FOR SPECIFIC INFORMATION CONCERNING DISTURBING, REMOVING, AND DISPOSING OF THESE MATERIALS AND THE INSTALLATION OF THE NEW MATERIALS OR COMPONENTS. THIS NOTIFICATION IS PROVIDED IN ACCORDANCE WITH EPA AND OSHA REQUIREMENTS.

- DEMOLITION SHEET NOTES**
- DEMOLISH EXISTING CONNECTIONS TO MECHANICAL EQUIPMENT INDICATED. DEMOLISH ASSOCIATED CONDUIT AND CONDUCTORS BACK TO SOURCE PANEL.
  - DEMOLISH EXISTING FLAG LIGHT PHOTOCELL AND ASSOCIATED CONDUIT AND CONDUCTORS ON EXTERIOR WALL BACK TO SOURCE PANEL.
  - DEMOLISH EXISTING FIRE ALARM ACTUATORS AND ASSOCIATED CONDUIT AND CABLING BACK TO FACP. PROVIDE REQUIRED PROGRAMMING TO REMOVE FROM SYSTEM. REFER TO OVERALL PLAN ON SHEET E010 FOR FACP LOCATION.
  - DEMOLISH EXISTING LIGHT AND LIGHT SWITCH. LIGHT SWITCH LOCATED INSIDE ADJACENT TO DOORWAY AT TOP OF STAIRS. REFER TO SHEET E103 FOR ADDITIONAL INFORMATION.
  - DEMOLISH EXISTING BUILDING MOUNTED LIGHTS IAW SHEET E200. RETAIN EXISTING CONDUIT FOR REUSE WHERE FEASIBLE.

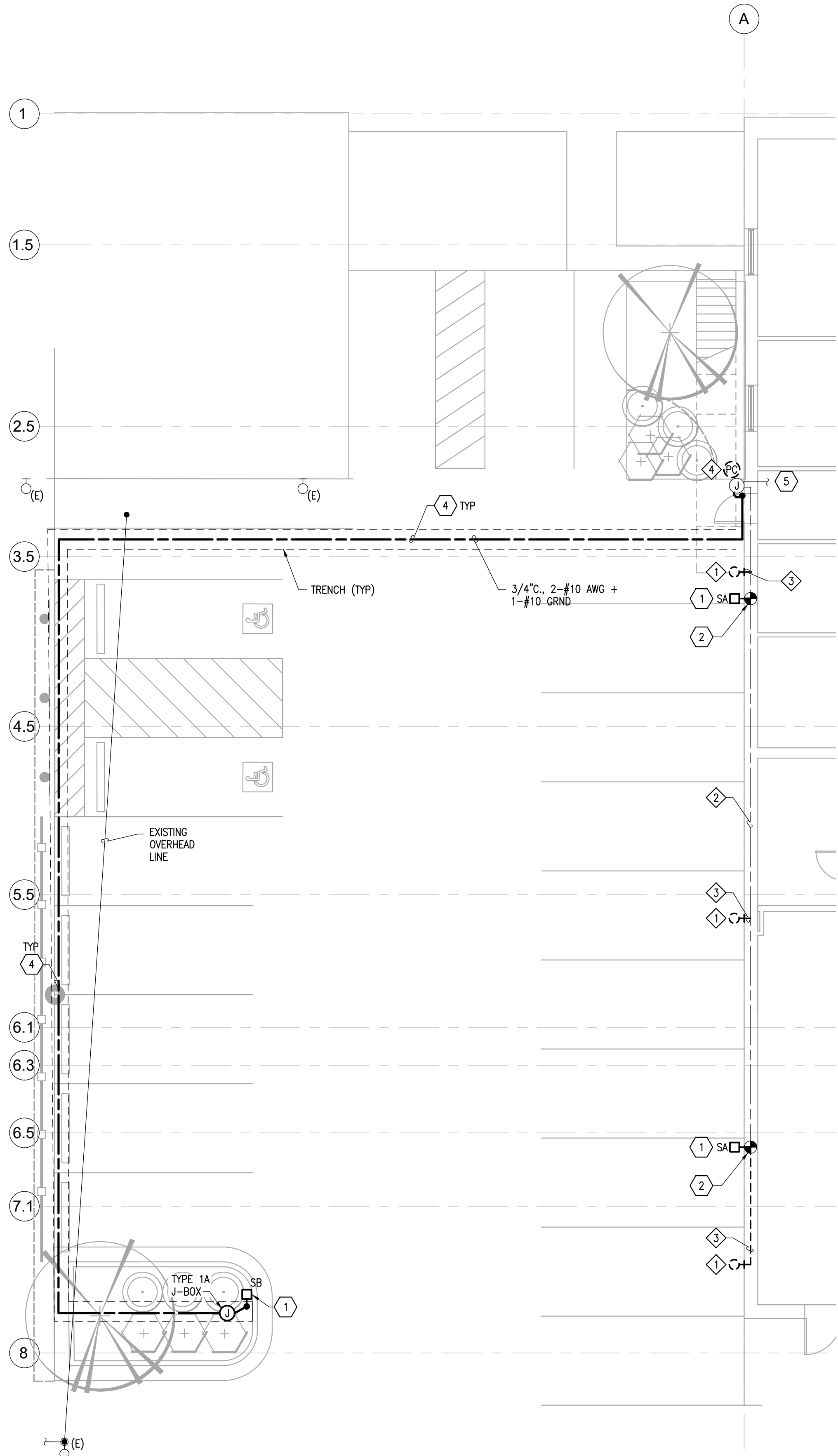


**ALASKA COURT SYSTEM  
SNOWDEN ADMIN BUILDING  
MECHANICAL UPGRADES**

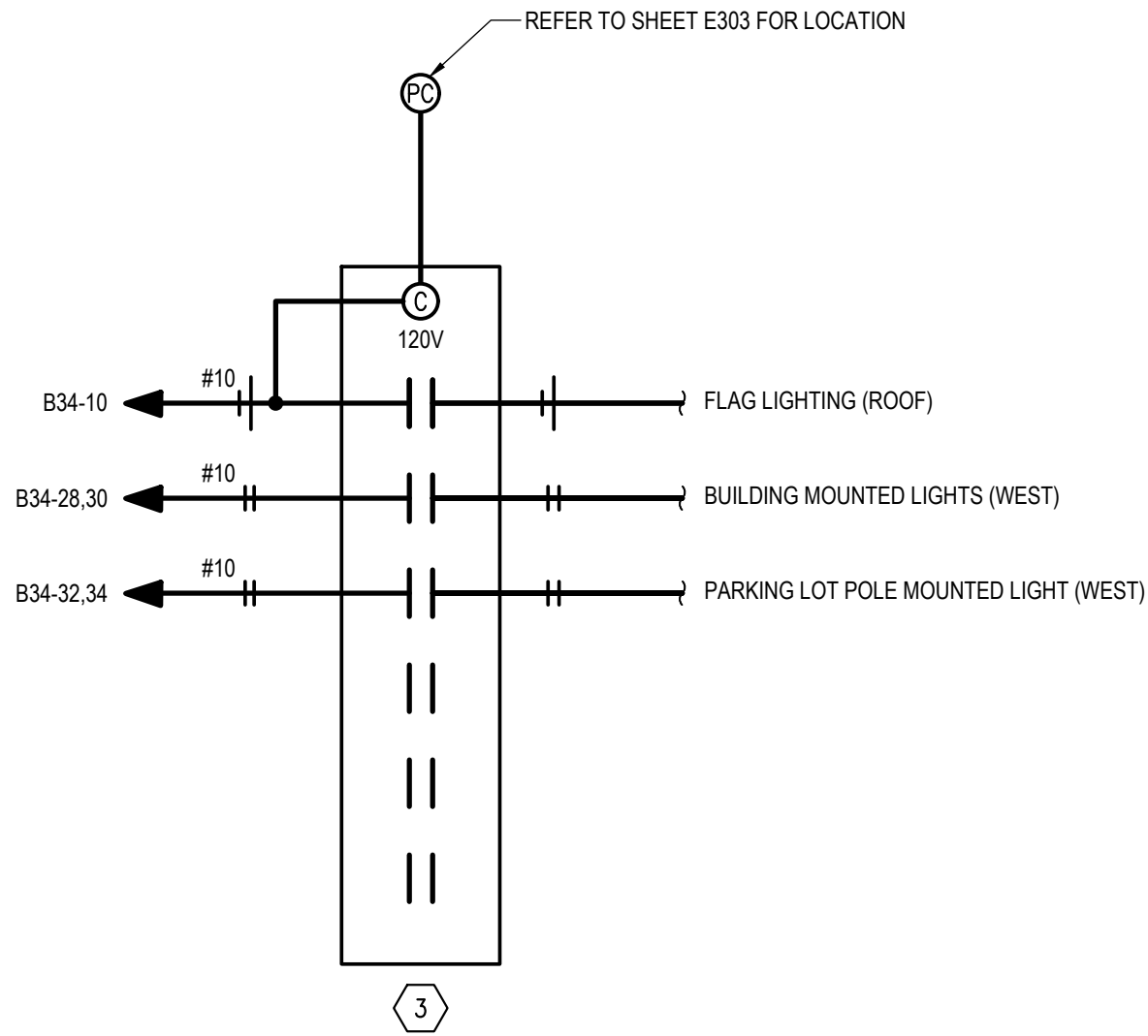
Revisions		
No.	Date	Description
1 INCH AT FULL SIZE IF NOT 1 INCH, SCALE ACCORDINGLY		
Designed by:	ASJ	
Checked by:	KAC	
AMC Project:	21805	
Date:	6/24/2022	
Project Phase	PERMIT DRAWINGS	
Sheet Title	ROOF PLAN - ELECTRICAL - DEMOLITION	
Sheet Number	E104	



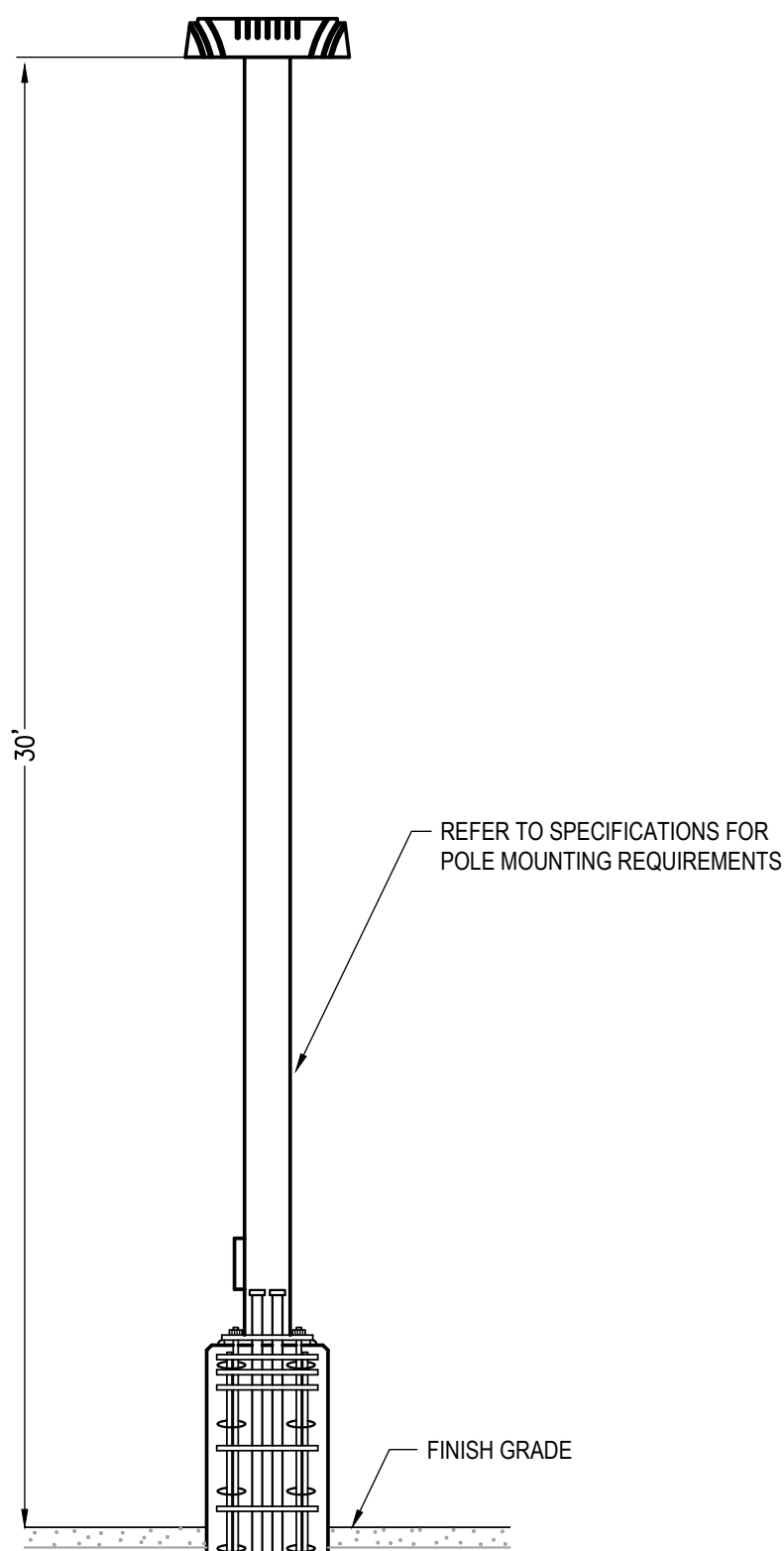
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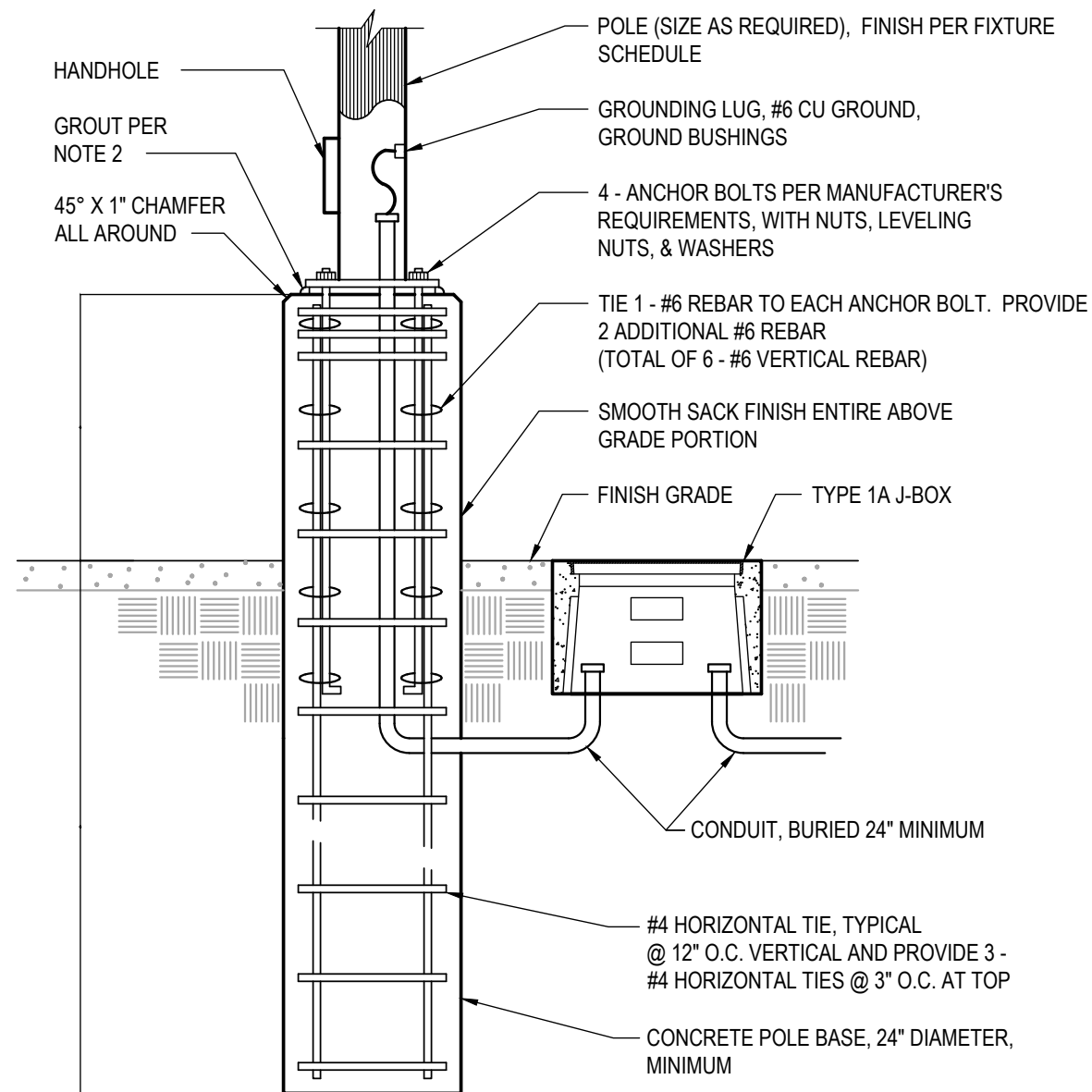
**1 SITE - LIGHTING**  
E200 SCALE: 1/8" = 1'-0"



**3 DETAIL - SITE LIGHTING CONTACTOR LTG-SITE**  
E200 SCALE: NONE



**2 DETAIL - POLE MOUNTED SITE LIGHTING**  
E200 SCALE: NONE



- NOTES, THIS DETAIL:
- CONCRETE SHALL CONFORM TO ALASKA D.O.T. CLASS "A" SPECS.
  - GROUT SHALL BE 1" MINIMUM, 2" MAXIMUM THICKNESS; NON-SHRINK OR DRY-PACK. APPLY AFTER INSTALLATION AND LEVELING OF POLE
  - PRE-CAST VERSION OF ABOVE BASE IS AN ACCEPTABLE ALTERNATE.

**4 DETAIL - ELEVATED POLE BASE - SITE LIGHTING**  
E200 SCALE: NONE

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#### NOTIFICATION OF POTENTIAL HAZARDS

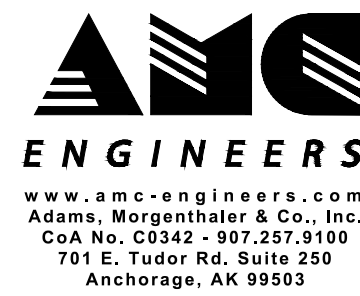
ASBESTOS, LEAD, AND OTHER HAZARDOUS MATERIALS ARE PRESENT IN THE BUILDING AND MAY IMPACT THE WORK OF ALL TRADES. REGULATED AIR CONTAMINANTS, INCLUDING ASBESTOS AND LEAD, ARE ALSO PRESENT IN SETTLED AND CONCEALED DUST IN AND ON ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL COMPONENTS OR SYSTEMS THROUGHOUT THE BUILDING. ALL TRADES SHALL COORDINATE WITH OTHER TRADES AND CONDUCT THEIR WORK TO PREVENT WORKER EXPOSURE OR SITE CONTAMINATION. REFER TO SPECIFICATION DIVISIONS 0, 1, AND 2 FOR SPECIFIC INFORMATION CONCERNING DISTURBING, REMOVING, AND DISPOSING OF THESE MATERIALS AND THE INSTALLATION OF THE NEW MATERIALS OR COMPONENTS. THIS NOTIFICATION IS PROVIDED IN ACCORDANCE WITH EPA AND OSHA REQUIREMENTS.

#### DEMOLITION NOTES

- DEMOLISH EXISTING BUILDING MOUNTED SITE LIGHTING AND ASSOCIATED CONDUCTORS BACK TO SOURCE PANEL AND MAKE SPARE. RETAIN EXISTING CONDUIT AS REQUIRED FOR RECONNECTION TO NEW LIGHTING PROVIDED IAW SHEET NOTE 1. REFER TO SHEET E104 FOR ADDITIONAL INFORMATION.
- REUSE EXISTING CONDUIT TO THE GREATEST EXTENT PRACTICAL. REFER TO SHEET E104 FOR ADDITIONAL INFORMATION.
- DEMOLISH EXISTING CONDUIT FROM LIGHT FIXTURE NOTED FOR DEMOLITION BACK TO EXISTING TO REMAIN PORTION OF CONDUIT RUN. REWORK CONDUIT CONNECTIONS AND FITTINGS AS REQUIRED.
- DEMOLISH EXISTING BUILDING MOUNTED PHOTOCELL.

#### SHEET NOTES

- PROVIDE LIGHTING FIXTURE AT LOCATION INDICATED. REFER TO LIGHTING FIXTURE SCHEDULE ON SHEET E002 FOR ADDITIONAL INFORMATION.
- ROUTE CONDUIT FROM LIGHT FIXTURE TO EXISTING CONDUIT. PROVIDE CONDUIT FITTINGS AS REQUIRED TO CONNECT TO EXISTING CONDUIT. INTERCEPT EXISTING BRANCH CIRCUIT CONDUCTORS, EXTEND, AND CONNECT.
- PROVIDE SQUARE "D" ELECTRICALLY HELD CONTACTOR, 8 POLE, 20AMP, 208V WITH HAND-OFF AUTO, H.O.A. SWITCH, ON/OFF PILOT LIGHTS. LOCATE CONTACTOR IN LEVEL 3 FAN ROOM. PROVIDE ENGRAVED NAMEPLATE ON CONTACTOR "LTG-SITE". REFER TO DETAIL 2/E302 FOR ADDITIONAL INFORMATION.
- ROUTE CONDUIT UNDERGROUND FROM TYPE 1A JUNCTION BOX TO BUILDING, SURFACE MOUNT CONDUIT UP BUILDING TO EXISTING WALL MOUNTED JUNCTION BOX. PROVIDE TRENCHING, SAW CUTTING AND ASPHALT PATCHING AS REQUIRED. BURY CONDUIT AT A MINIMUM DEPTH OF 24 INCHES.
- REUSE EXISTING CONDUIT TO THE EXTENT PRACTICAL. ROUTE CONDUIT TO LIGHTING CONTROL CONTACTOR "LTG-SITE" IN LEVEL 3 FAN ROOM.



ALASKA COURT SYSTEM  
SNOWDEN ADMIN BUILDING  
MECHANICAL UPGRADES

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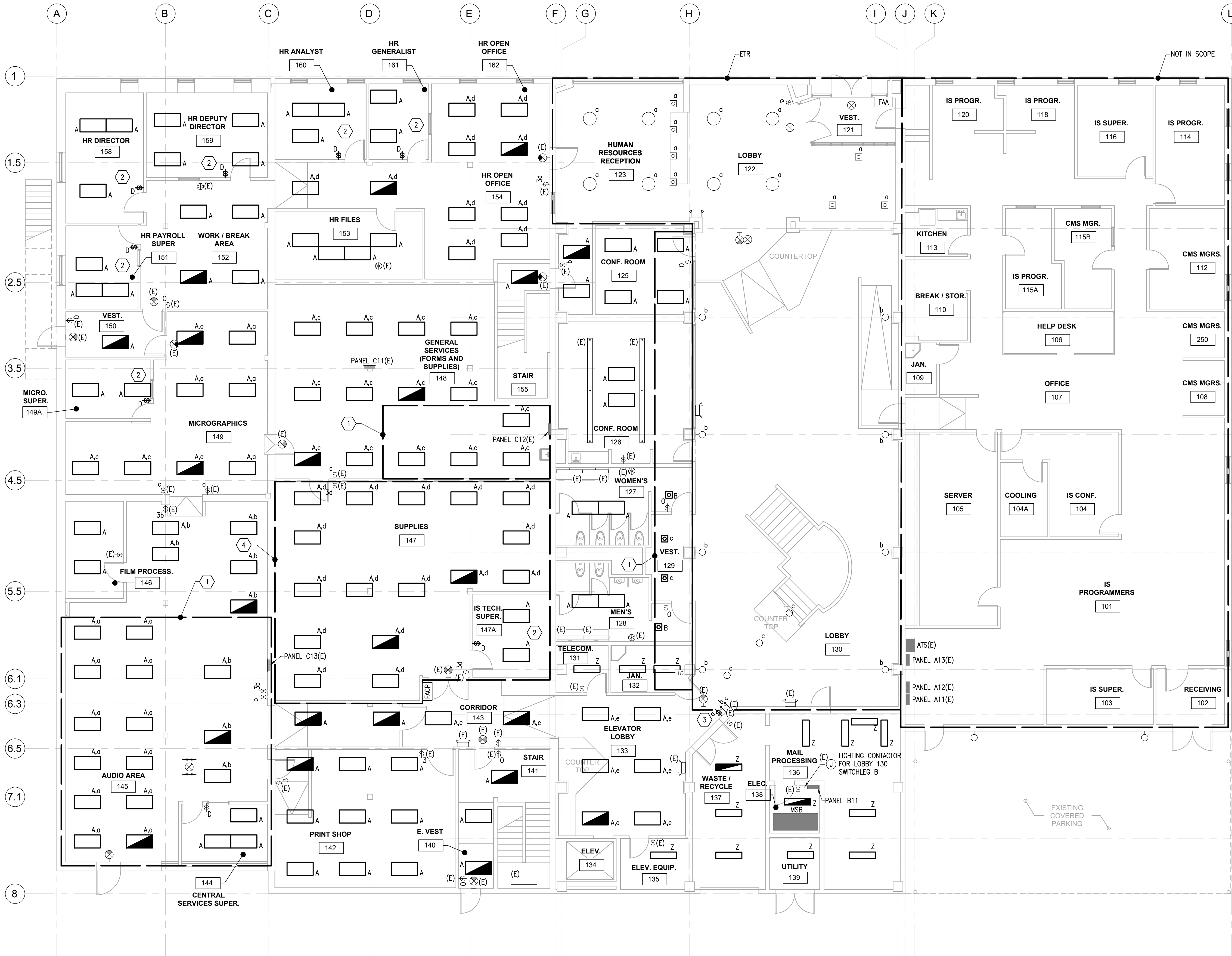
Designed by: ASJ  
Checked by: KAC  
AMC Project: 21805  
Date: 6/24/2022

Project Phase  
**PERMIT DRAWINGS**

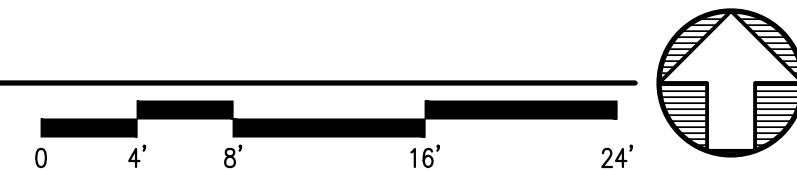
Sheet Title  
SITE LIGHTING

Sheet Number  
**E200**

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**1 LEVEL 1 - LIGHTING**  
E201 SCALE: 1/8" = 1'-0"



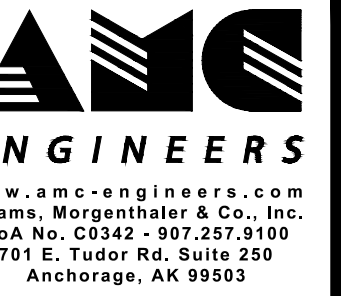
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**SHEET NOTES**

- BASE BID: CLEAN AND RE-INSTALL EXISTING FIXTURES RETAINED IAW SHEET E101. INTERCEPT, EXTEND AND RECONNECT TO EXISTING CIRCUITS AS REQUIRED.
- ALTERNATE #2: PROVIDE NEW LIGHTING AS INDICATED. INTERCEPT, EXTEND AND RECONNECT TO EXISTING CIRCUIT AS REQUIRED. REFER TO LIGHTING FIXTURE SCHEDULE ON SHEET E002 FOR ADDITIONAL INFORMATION.
- ALTERNATE #2: REPLACE EXISTING LIGHTING CONTROLS WITH DIMMING LIGHTING CONTROLS AT LOCATION INDICATED.
- PROVIDE LIGHTING CONTROL SWITCH AND CONNECT TO CONTACTOR "LTG-LOBBY" IN MECH 307. SEE SHEET E302 FOR LOCATION OF CONTACTOR.
- BASE BID: PROVIDE NEW LIGHTING AS INDICATED. INTERCEPT, EXTEND AND RECONNECT TO EXISTING CIRCUITS AS REQUIRED. REFER TO LIGHTING FIXTURE SCHEDULE ON SHEET E002 AND ARCHITECTURAL RCP DRAWINGS FOR ADDITIONAL INFORMATION.
- UNO LIGHTING INDICATED ON THIS SHEET SHALL BE ALTERNATE #2 ALTERNATE #2: PROVIDE NEW LIGHTING AS INDICATED. INTERCEPT, EXTEND AND RECONNECT TO EXISTING CIRCUITS AS REQUIRED. REFER TO LIGHTING FIXTURE SCHEDULE ON SHEET E002 AND ARCHITECTURAL RCP DRAWINGS FOR ADDITIONAL INFORMATION.



**ALASKA COURT SYSTEM  
SNOWDEN ADMIN BUILDING  
MECHANICAL UPGRADES**

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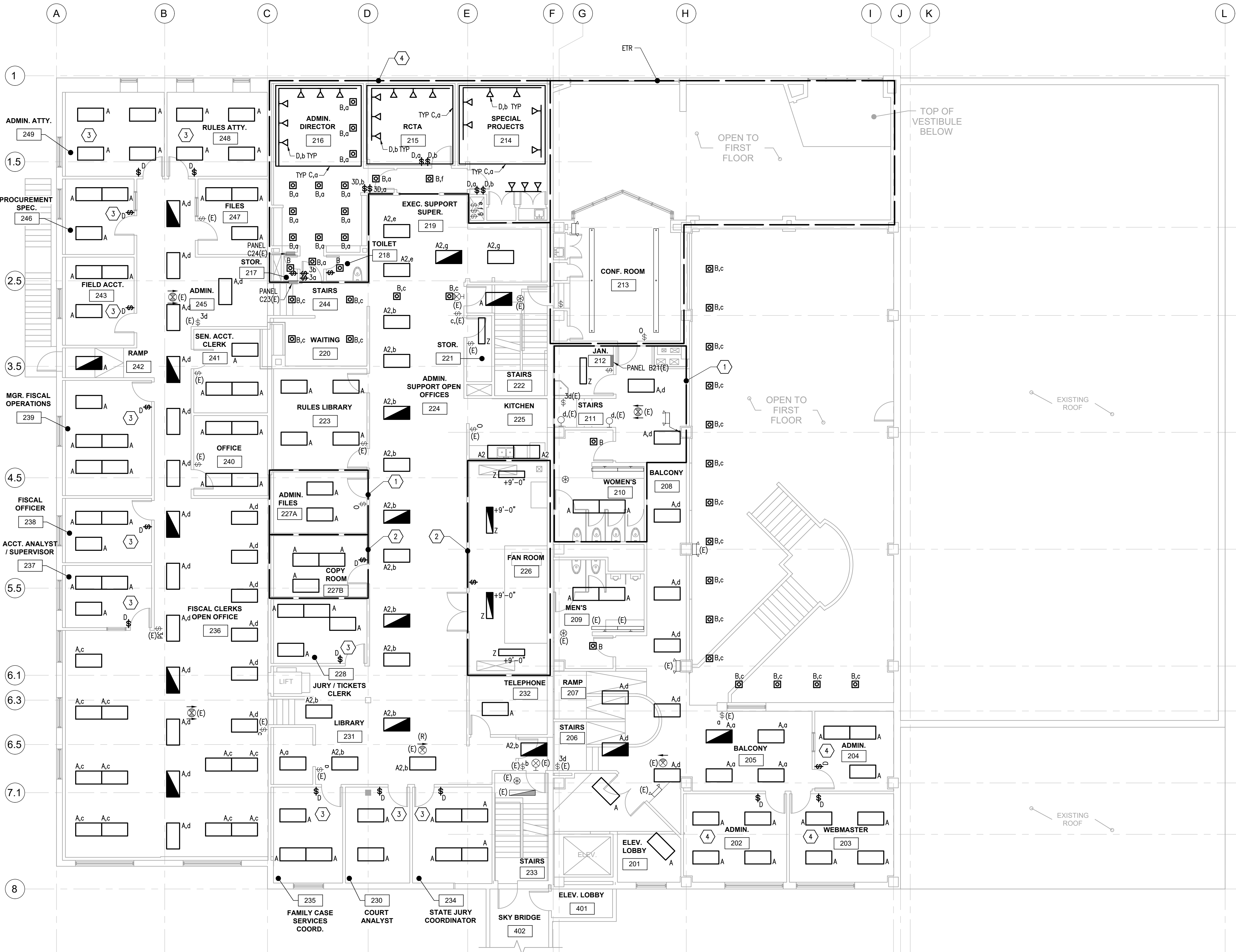
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Designed by: ASJ  
Checked by: KAC  
AMC Project: 21805  
Date: 6/24/2022  
Project Phase  
**PERMIT DRAWINGS**

Sheet Title  
LEVEL 1 - LIGHTING

Sheet Number  
**E201**

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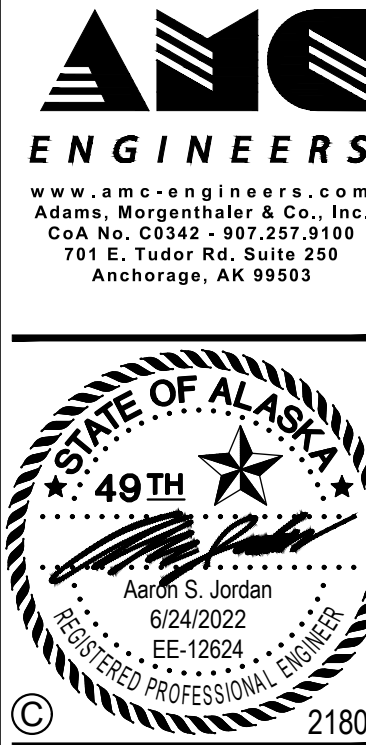
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SHEET NOTES

- BASE BID: CLEAN AND RE-INSTALL EXISTING FIXTURES RETAINED IAW SHEET E102. INTERCEPT, EXTEND AND RECONNECT TO EXISTING CIRCUIT AS REQUIRED.
- ALTERNATE #2: PROVIDE NEW LIGHTING AS INDICATED. INTERCEPT, EXTEND AND RECONNECT TO EXISTING CIRCUIT AS REQUIRED. REFER TO LIGHTING FIXTURE SCHEDULE ON SHEET E002 FOR ADDITIONAL INFORMATION.
- BASE BID: PROVIDE NEW LIGHTING AND LIGHTING CONTROL SWITCH AS INDICATED. INTERCEPT, EXTEND AND RECONNECT TO EXISTING CIRCUIT AS REQUIRED. REFER TO LIGHTING FIXTURE SCHEDULE ON SHEET E002 FOR ADDITIONAL INFORMATION.
- ALTERNATE #2: REPLACE EXISTING LIGHTING CONTROLS WITH DIMMING LIGHTING CONTROLS AT LOCATION INDICATED.
- BASE BID: PROVIDE NEW LIGHTING AS INDICATED. INTERCEPT, EXTEND AND RECONNECT TO EXISTING CIRCUITS AS REQUIRED. REFER TO LIGHTING FIXTURE SCHEDULE ON SHEET E002 AND ARCHITECTURAL RCP DRAWINGS FOR ADDITIONAL INFORMATION.
- UON LIGHTING INDICATED ON THIS SHEET SHALL BE ALTERNATE #2 ALTERNATE #2: PROVIDE NEW LIGHTING AS INDICATED. INTERCEPT, EXTEND AND RECONNECT TO EXISTING CIRCUITS AS REQUIRED. REFER TO LIGHTING FIXTURE SCHEDULE ON SHEET E002 AND ARCHITECTURAL RCP DRAWINGS FOR ADDITIONAL INFORMATION.



ALASKA COURT SYSTEM  
SNOWDEN ADMIN BUILDING  
MECHANICAL UPGRADES

Revisions		
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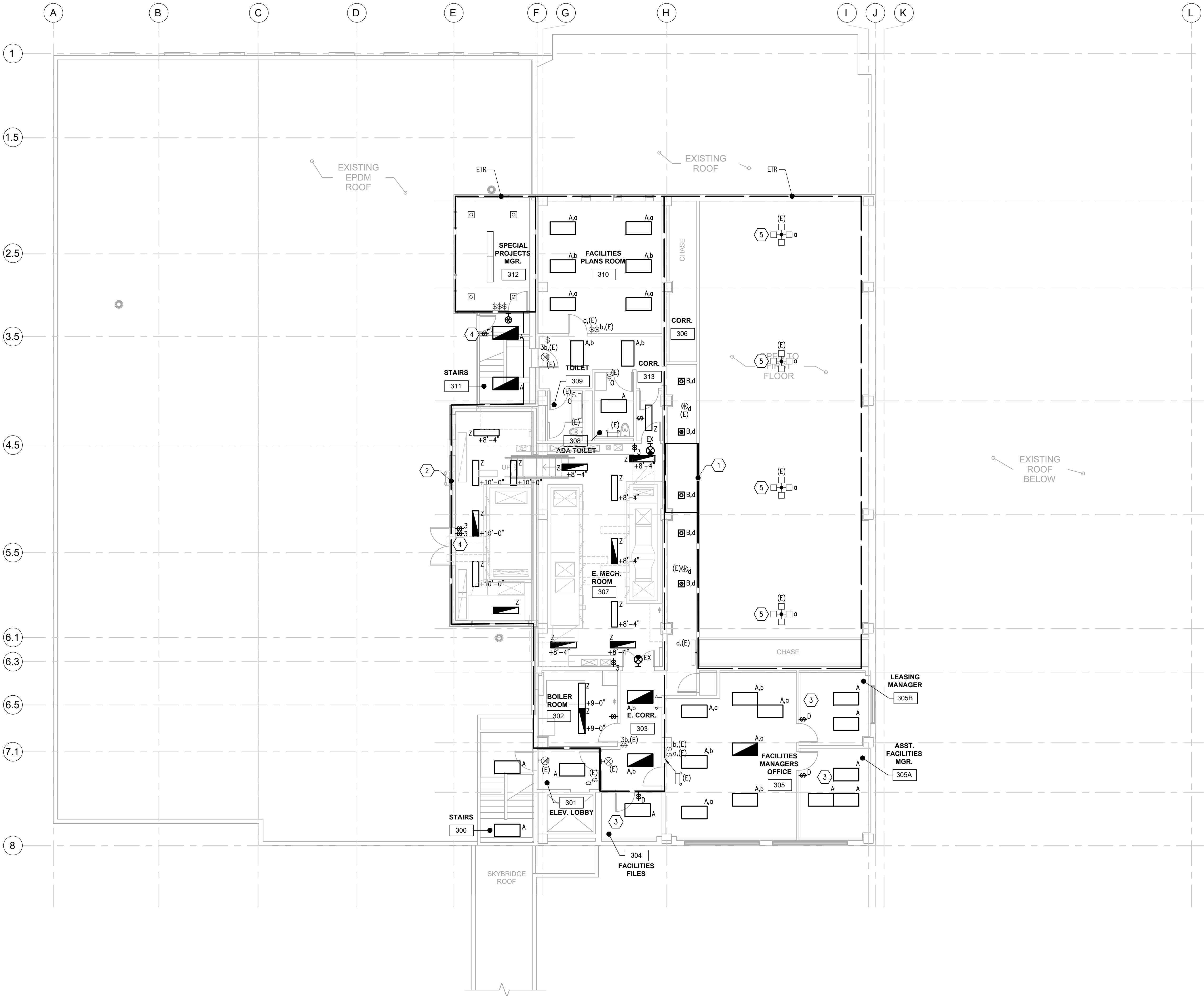
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Designed by: ASJ  
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AMC Project: 21805  
Date: 6/24/2022  
Project Phase  
PERMIT DRAWINGS

Sheet Title  
LEVEL 2 - LIGHTING

Sheet Number  
E202

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NOTIFICATION OF POTENTIAL HAZARDS

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SHEET NOTES

1

BASE BID: CLEAN AND RE-INSTALL EXISTING FIXTURES RETAINED IAW SHEET E103. INTERCEPT, EXTEND AND RECONNECT TO EXISTING CIRCUIT AS REQUIRED.

2

ALTERNATE #2: PROVIDE NEW LIGHTING AS INDICATED. INTERCEPT, EXTEND AND RECONNECT TO EXISTING CIRCUIT AS REQUIRED. REFER TO LIGHTING FIXTURE SCHEDULE ON SHEET E002 FOR ADDITIONAL INFORMATION.

3

BASE BID: PROVIDE NEW LIGHTING AND LIGHTING CONTROLS AS INDICATED. INTERCEPT, EXTEND AND RECONNECT TO EXISTING CIRCUIT AS REQUIRED. REFER TO LIGHTING FIXTURE SCHEDULE ON SHEET E002 FOR ADDITIONAL INFORMATION.

4

ALTERNATE #2: REPLACE EXISTING LIGHTING CONTROLS WITH DIMMING LIGHTING CONTROLS AT LOCATION INDICATED.

5

BASE BID: PROVIDE 3-WAY SWITCH FOR CONTROL OF EXTERIOR WALL MOUNTED ROOF LIGHTS. REFER TO SHEETS E104 AND E303 FOR ADDITIONAL INFORMATION.

6

BASE BID: CONNECT EXISTING CLUSTER LIGHTS TO CONTACTOR "LTG-LOBBY" IN MECH 307. SEE SHEET E302 FOR LOCATION OF CONTACTOR.

7

UN LIGHTING INDICATED ON THIS SHEET SHALL BE ALTERNATE #2 ALTERNATE #2: PROVIDE NEW LIGHTING AS INDICATED. INTERCEPT, EXTEND AND RECONNECT TO EXISTING CIRCUITS AS REQUIRED. REFER TO LIGHTING FIXTURE SCHEDULE ON SHEET E002 AND ARCHITECTURAL RCP DRAWINGS FOR ADDITIONAL INFORMATION.

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701 E. Tudor Rd, Suite 250  
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STATE OF ALASKA

49TH

Aaron S. Jordan  
6/24/2022  
EE-12624  
REGISTERED PROFESSIONAL ENGINEER

© 21805

ALASKA COURT SYSTEM  
SNOWDEN ADMIN BUILDING  
MECHANICAL UPGRADES

Revisions

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1 INCH AT FULL SIZE  
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Designed by: ASJ  
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AMC Project: 21805  
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Project Phase  
PERMIT DRAWINGS

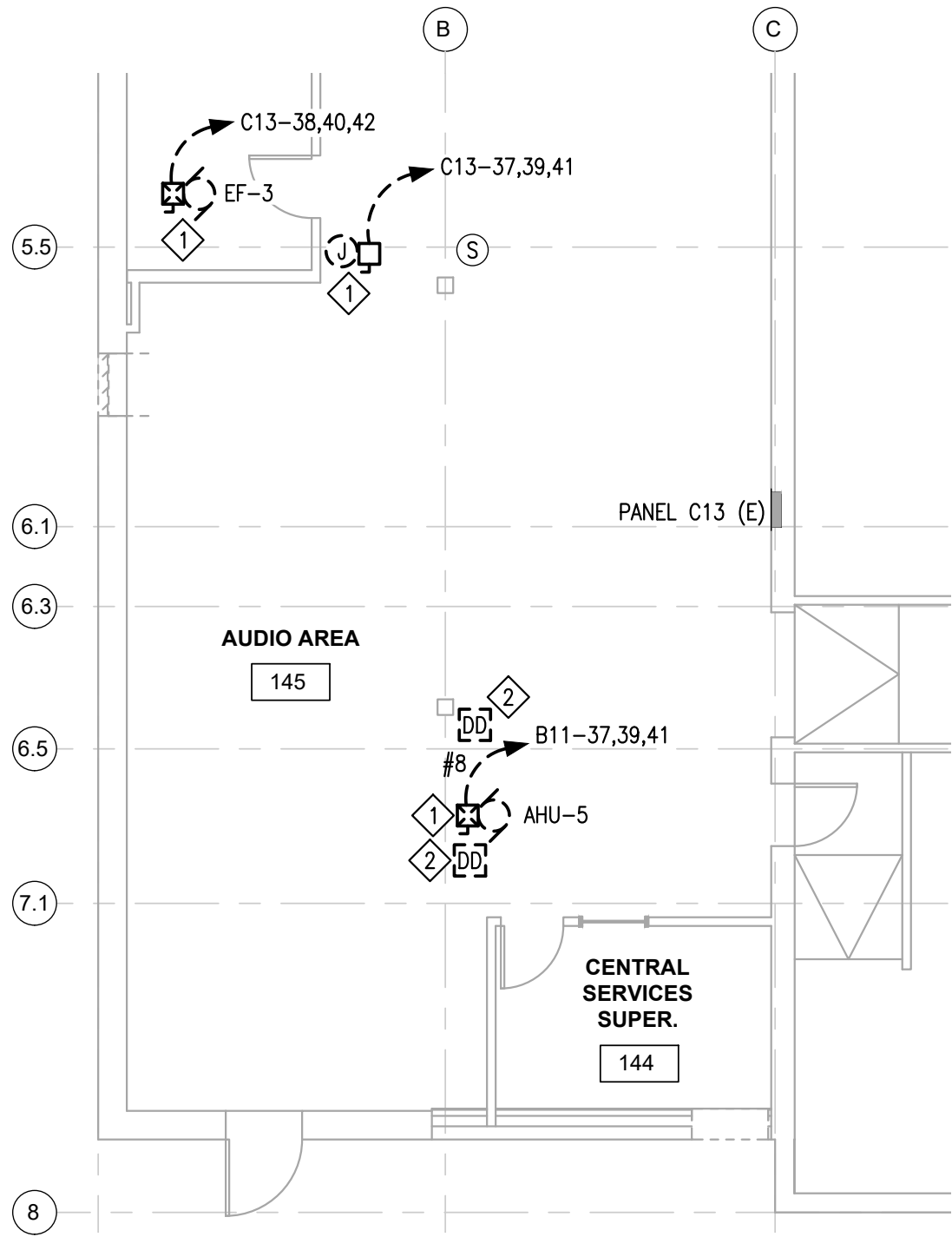
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LEVEL 3 - LIGHTING

Sheet Number  
E203

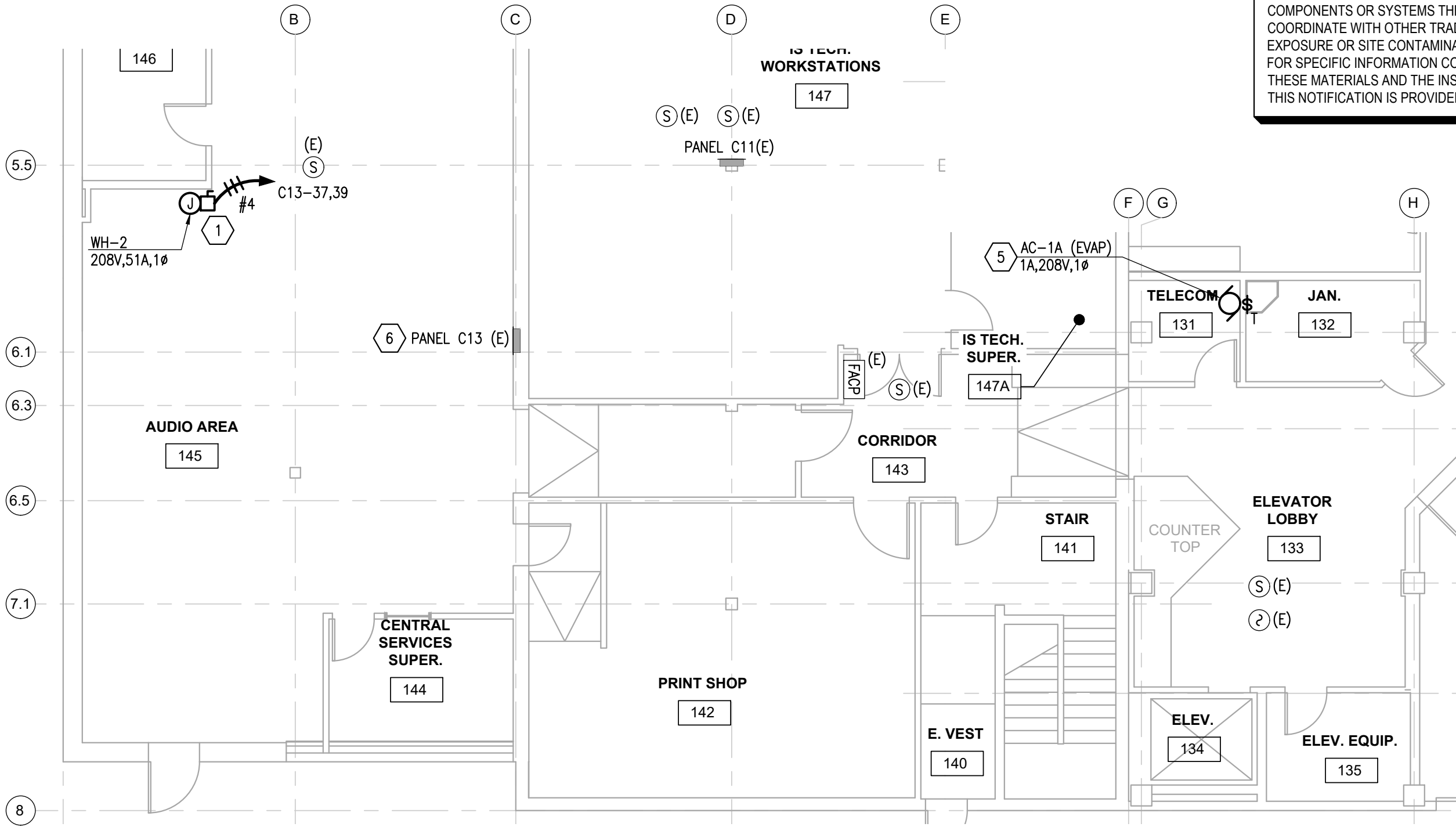


DEMOLITION SHEET NOTES

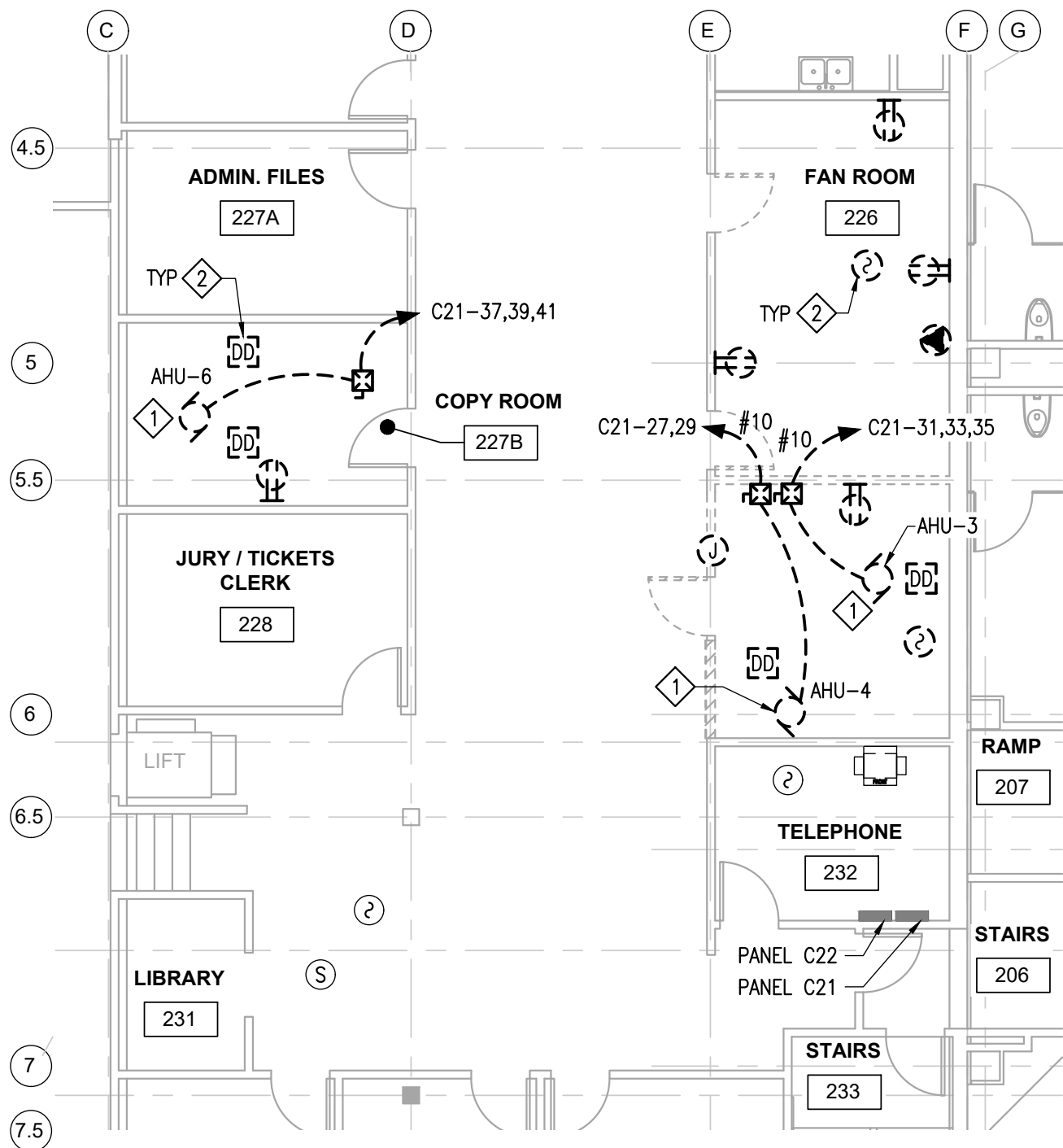
- 1 DEMOLISH CONNECTIONS TO MECHANICAL EQUIPMENT AS INDICATED. DEMOLISH EXISTING CONDUITS AND CONDUCTORS BACK TO SOURCE PANEL AND MAKE SPARE.
- 2 DEMOLISH EXISTING FIRE ALARM SYSTEM INITIATING DEVICES AND ASSOCIATED CONDUIT AND CABLING. PROVIDE REQUIRED PROGRAMMING TO REMOVE FROM SYSTEM.



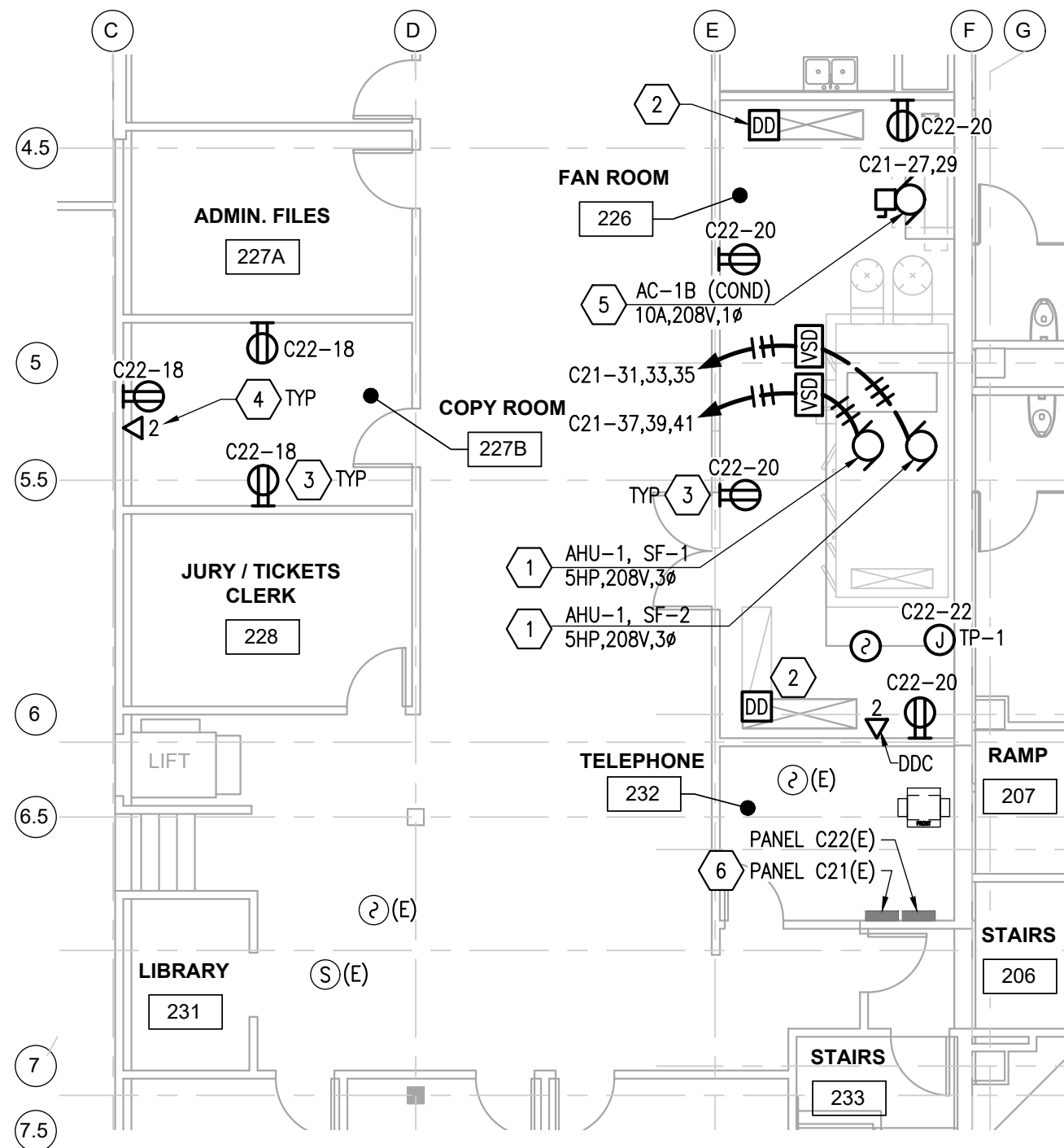
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E301 SCALE: 1/8" = 1'-0"



2 ENLARGED PLAN - LEVEL 1 - POWER & SSYS  
E301 SCALE: 1/8" = 1'-0"



3 ENLARGED PLAN - LEVEL 2 - POWER & SSYS - DEMO  
E301 SCALE: 1/8" = 1'-0"



4 ENLARGED PLAN - LEVEL 2 - POWER & SSYS  
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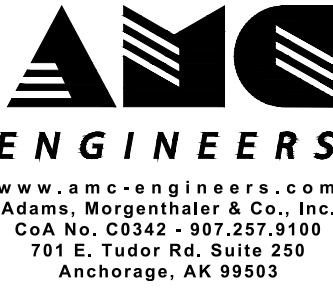
SHEET NOTES

- 1 PROVIDE CONNECTION TO MECHANICAL EQUIPMENT AS INDICATED. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 2 PROVIDE DUCT DETECTOR IN RETURN DUCT OF AIR HANDLING UNIT. REFER TO OVERALL PLAN LEVEL 1 ON SHEET E010 FOR LOCATION OF EXISTING FACP. INTERCEPT EXISTING SLC CIRCUIT, EXTEND, AND CONNECT.
- 3 PROVIDE RECEPTACLE AT LOCATION INDICATED, CIRCUIT AS NOTED.
- 4 PROVIDE TELECOM OUTLET AT LOCATION INDICATED. ROUTE CABLING TO LEVEL 2 TELECOM ROOM AND TERMINATE ON EXISTING PATCH PANEL.
- 5 PROVIDE SINGLE POINT CONNECTION TO SPLIT AC SYSTEM AT CONDENSOR. PROVIDE CONNECTION FROM CONDENSOR TO EVAPORATOR LOCATED IN LEVEL 1 TELECOM ROOM.
- 6 LOCATION OF EXISTING BRANCH CIRCUIT PANEL. REFER TO PANEL SCHEDULE ON SHEET E002 FOR ADDITIONAL INFORMATION.

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NOTIFICATION OF POTENTIAL HAZARDS

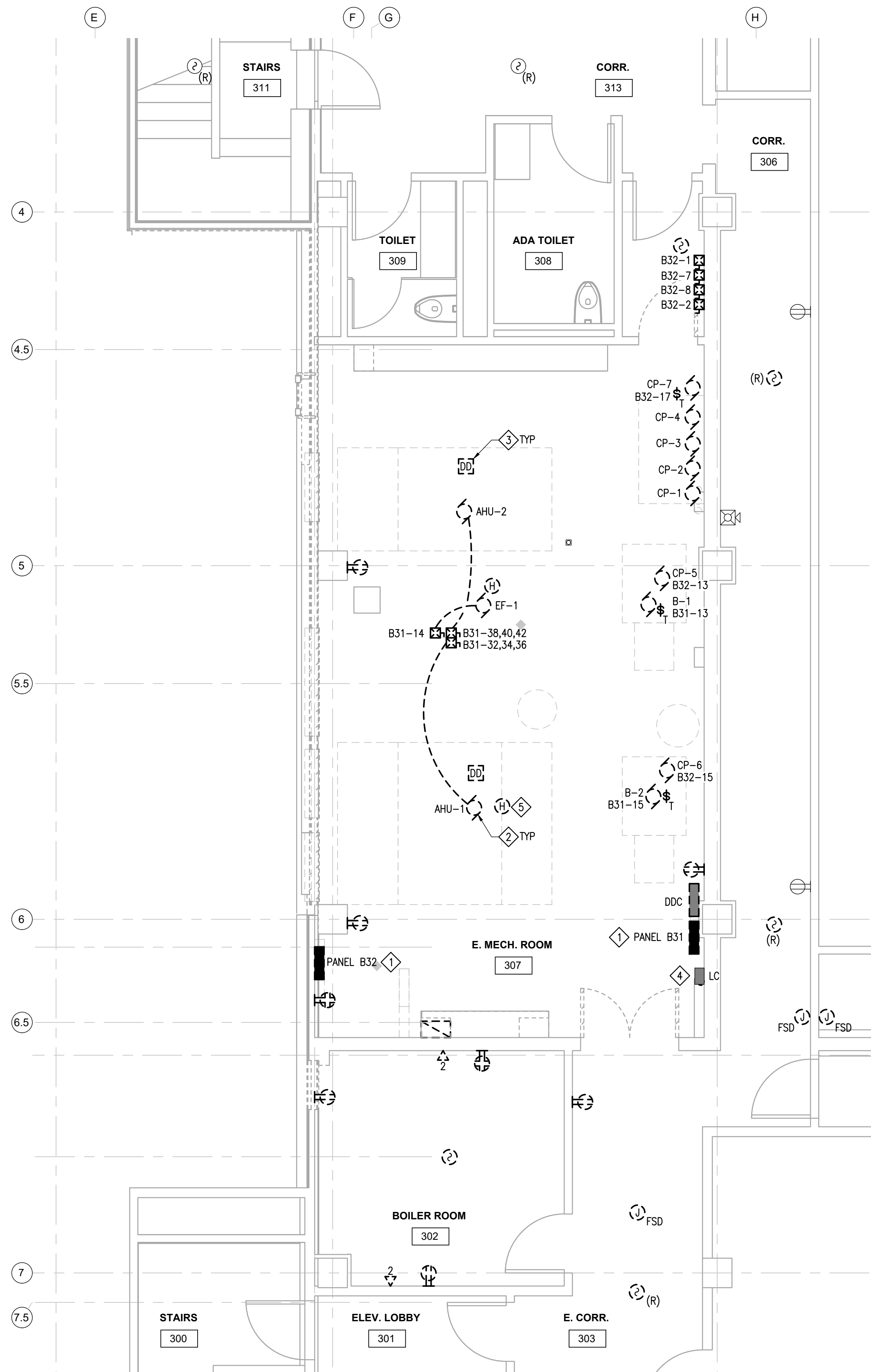
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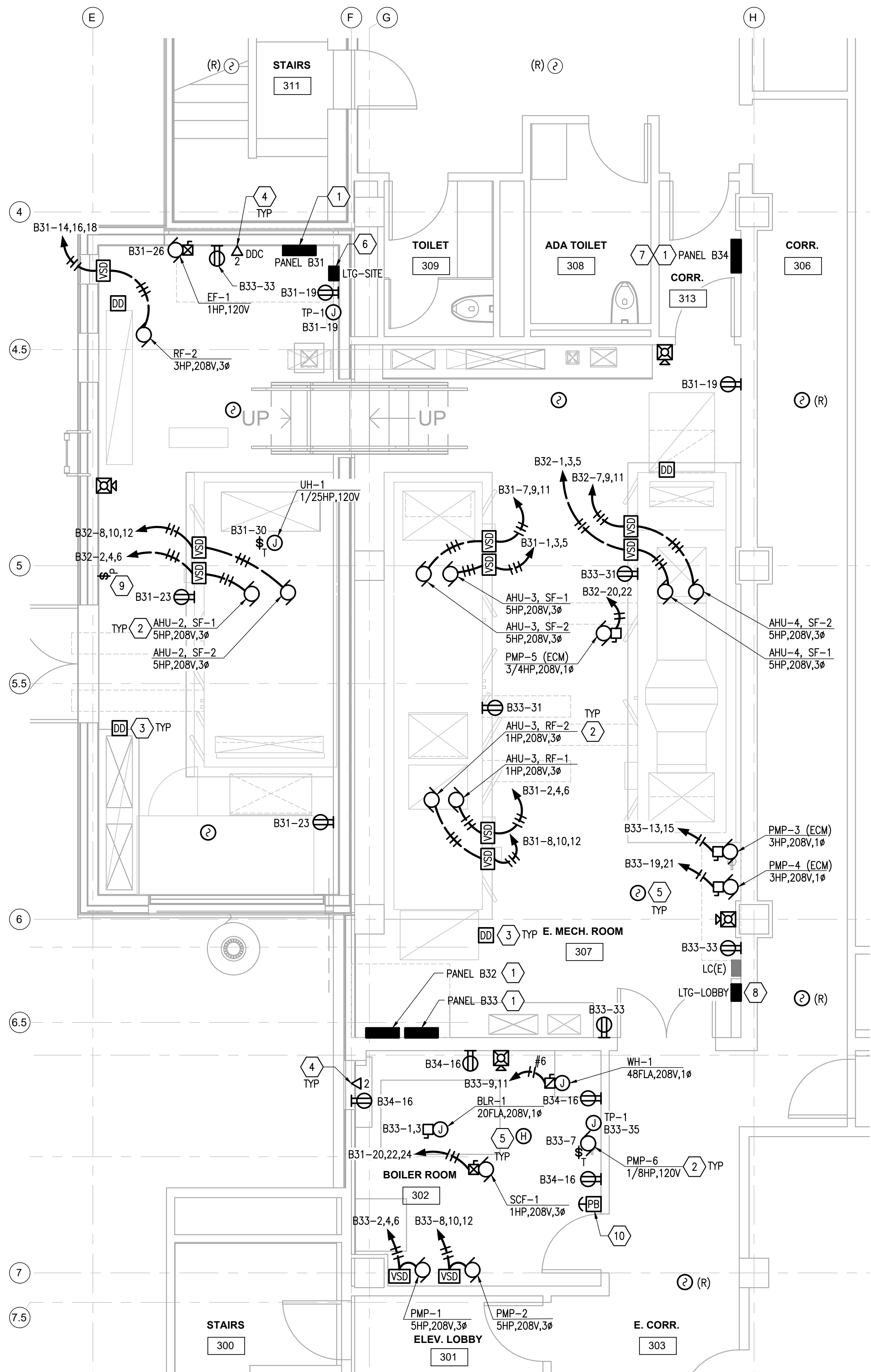
ALASKA COURT SYSTEM  
SNOWDEN ADMIN BUILDING  
MECHANICAL UPGRADES

Revisions		
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Checked by:	KAC	
AMC Project:	21805	
Date:	6/24/2022	
Project Phase	PERMIT DRAWINGS	
Sheet Title	ENLARGED PLANS - LEVELS 1 & 2 - POWER & SSYS	
Sheet Number	E301	

FILE NAME: x:\21805 snowden\Draws\Elec\sheet files\21805 - E302.dwg  
PLOTTED: Epaglayan 6/24/2022 1:49 PM



**1 ENLARGED PLAN - LEVEL 3 - POWER & SSYS - DEMOLITION**  
E302 SCALE: 1/4" = 1'-0"



**2 ENLARGED PLAN - LEVEL 3 - POWER & SSYS**  
E302 SCALE: 1/4" = 1'-0"

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#### NOTIFICATION OF POTENTIAL HAZARDS

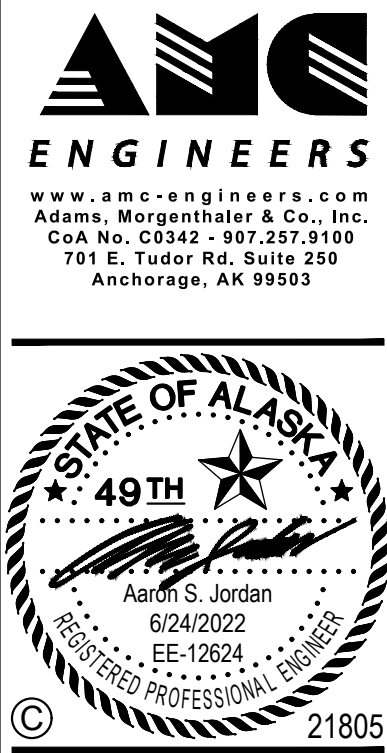
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#### DEMOLITION NOTES

- DEMOLISH EXISTING BRANCH CIRCUIT PANELS. RELOCATE LIGHTING AND RECEPTACLE CIRCUITS NOT ASSOCIATED WITH NEW BOILER AND FAN ROOM EQUIPMENT TO NEW PANEL "B34" PROVIDED IAW SHEET NOTE 1.
- DEMOLISH CONNECTIONS TO EXISTING MECHANICAL EQUIPMENT AS INDICATED. DEMOLISH EXISTING CONDUIT AND CONDUCTORS BACK TO SOURCE PANEL AND MAKE SPARE.
- DEMOLISH EXISTING DUCT DETECTORS AND ASSOCIATED CONDUIT AND CABLING BACK TO FIRE ALARM CONTROL PANEL. PROVIDE REQUIRED PROGRAMMING TO REMOVE FROM SYSTEM.
- RETAIN EXISTING LIGHTING CONTROL CONTACTOR. RE-CIRCUIT LIGHTING TO NEW PANEL "B34" PROVIDED IAW SHEET NOTE 1.
- DEMOLISH EXISTING FIRE ALARM INITIATING DEVICE. RETAIN EXISTING SLC CIRCUIT FOR RECONNECT TO NEW DEVICES PROVIDED IAW DETAIL 2 OF THIS SHEET.

#### SHEET NOTES

- PROVIDE CIRCUIT PANELS AT LOCATION INDICATED. REFER TO POWER ONE-LINE DIAGRAM ON SHEET E401 FOR ADDITIONAL INFORMATION.
- PROVIDE CONNECTIONS TO MECHANICAL EQUIPMENT AS INDICATED. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- PROVIDE DUCT DETECTOR IN RETURN DUCT OF AIR HANDLING UNIT (AHU). PROVIDE EQUIPMENT, PROGRAMMING AND CONNECTIONS TO FIRE ALARM PANEL AND AHU SUCH THAT FIRE ALARM SYSTEM SHUTS DOWN AHU ON ALARM. REFER TO OVERALL PLAN LEVEL 1 FOR LOCATION OF FIRE ALARM CONTROL PANEL.
- PROVIDE TELECOM OUTLET AT LOCATION INDICATED. ROUTE CABLING TO LEVEL 2 TELECOM ROOM AND TERMINATE ON EXISTING PATCH PANEL.
- PROVIDE FIRE ALARM SYSTEM INITIATING DEVICE. INTERCEPT EXISTING SLC CIRCUIT, EXTEND, AND RECONNECT.
- PROVIDE CONTACTOR FOR CONTROL OF EXTERIOR LIGHTING. REFER TO SITE LIGHTING PLAN ON SHEET E200 AND ROOF PLAN ON SHEET E303 FOR ADDITIONAL INFORMATION.
- INTERCEPT, EXTEND AND RECONNECT EXISTING TO REMAIN CIRCUITS, LOCATED OUTSIDE OF THE NEW BOILER AND FAN ROOM, FROM EXISTING PANELS B31 AND B32 TO THIS PANEL.
- PROVIDE SQUARE 'D' ELECTRICALLY HELD CONTACTOR, 8 POLE, 20AMP, 208V WITH HAND-OFF AUTO, H.O.A. SWITCH, ON/OFF PILOT LIGHTS. LOCATE CONTACTOR IN LEVEL 3 FAN ROOM. PROVIDE ENGRAVED NAMEPLATE ON CONTACTOR "LTG-LOBBY". RELOCATE "CLUSTER" CIRCUITS FROM EXISTING "LC" CONTACTOR TO NEW CONTACTOR. RE-CIRCUIT CLUSTER LIGHTS TO PANEL B34
- PROVIDE PILOT LIGHTED SWITCH FOR CONTROL OF HEAT TRACE. REFER TO ROOF PLAN ON SHEET E303 FOR ADDITIONAL INFORMATION.
- PROVIDE 2 POSITION, PUSH-PULL, LED ILLUMINATED, RED KNOB WITH "PUSH EMERGENCY STOP" PRINTED ON KNOB, MUSHROOM TYPE BUTTON. SQUARE D MODEL #9001KR9P1LRR05H2, FOR REMOTE SHUTDOWN OF AUTOMATICALLY FIRED BOILER IN ACCORDANCE WITH ASME CSD-1-2009. PROVIDE FLIP UP POLYCARBONATE COVER SUCH THAT LIFTING UP ON THE COVER WILL GAIN ACCESS TO EMERGENCY SHUT DOWN BUTTON. PROVIDE LABEL TO READ: "BOILER EMERGENCY SHUTDOWN BUTTON". CONNECT EMERGENCY SHUTDOWN SWITCH TO BOILER STARTER.



ALASKA COURT SYSTEM  
SNOWDEN ADMIN BUILDING  
MECHANICAL UPGRADES

#### Revisions

No.	Date	Description

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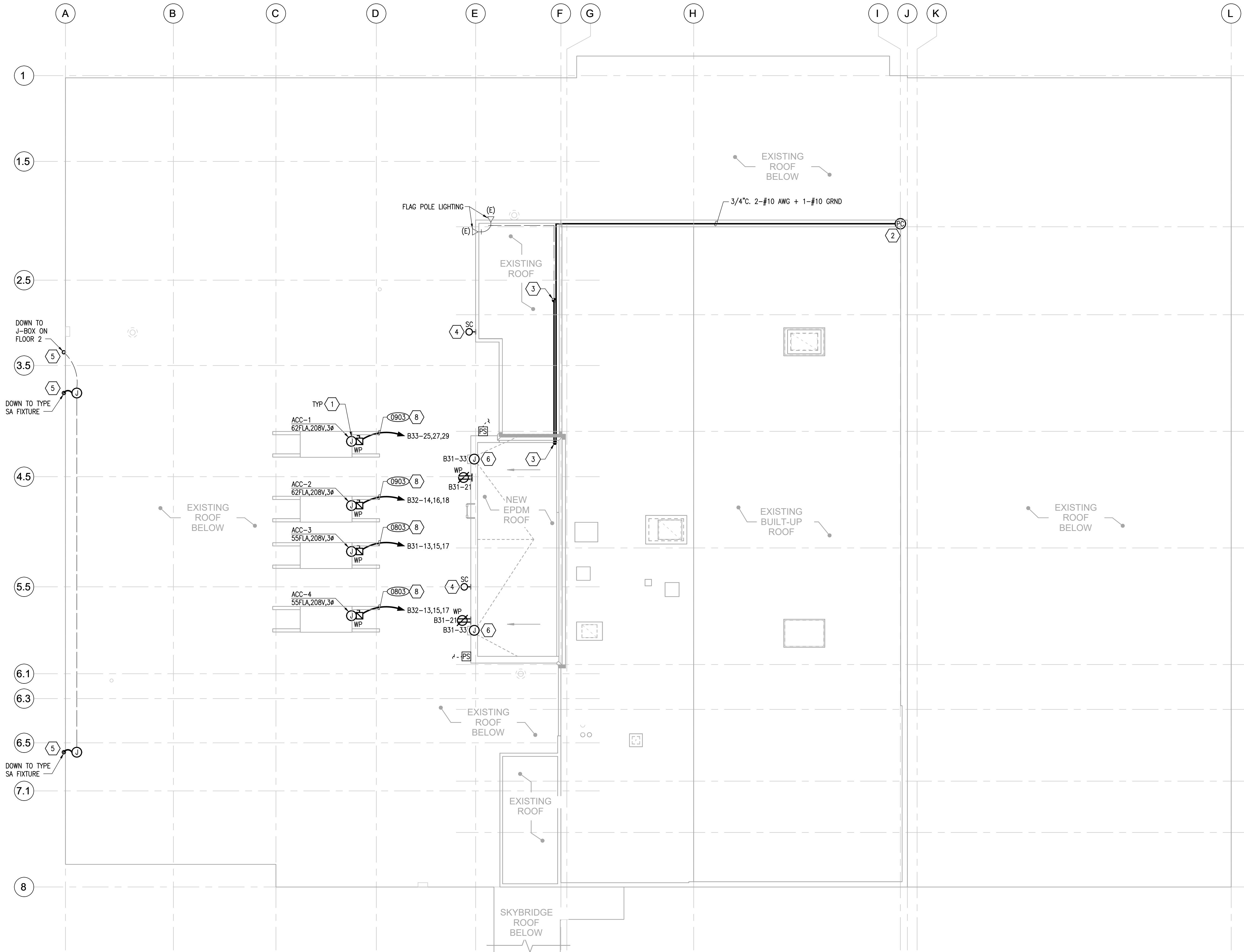
Designed by: ASJ  
Checked by: KAC  
AMC Project: 21805  
Date: 6/24/2022  
Project Phase  
**PERMIT DRAWINGS**

Sheet Title  
ENLARGED PLANS -  
LEVEL 3 - POWER &  
SSYS

Sheet Number

**E302**

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MOA ePlans Stamp

NOTIFICATION OF POTENTIAL HAZARDS

ASBESTOS, LEAD, AND OTHER HAZARDOUS MATERIALS ARE PRESENT IN THE BUILDING AND MAY IMPACT THE WORK OF ALL TRADES. REGULATED AIR CONTAMINANTS, INCLUDING ASBESTOS AND LEAD, ARE ALSO PRESENT IN SETTLED AND CONCEALED DUST IN AND ON ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL COMPONENTS OR SYSTEMS THROUGHOUT THE BUILDING. ALL TRADES SHALL COORDINATE WITH OTHER TRADES AND CONDUCT THEIR WORK TO PREVENT WORKER EXPOSURE OR SITE CONTAMINATION. REFER TO SPECIFICATION DIVISIONS 0, 1, AND 2 FOR SPECIFIC INFORMATION CONCERNING DISTURBING, REMOVING, AND DISPOSING OF THESE MATERIALS AND THE INSTALLATION OF THE NEW MATERIALS OR COMPONENTS. THIS NOTIFICATION IS PROVIDED IN ACCORDANCE WITH EPA AND OSHA REQUIREMENTS.

- SHEET NOTES
- 1

PROVIDE CONNECTION TO MECHANICAL EQUIPMENT AS INDICATED. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 2

PROVIDE PHOTOCELL AT NORTH EAST CORNER OF BUILDING. ROUTE CONDUIT AND CONDUCTORS TO LIGHTING CONTROL CONTACTOR "LTG-SITE" IN LEVEL 3 FAN ROOM.
- 3

INTERCEPT EXISTING CONDUIT FOR EXISTING FLAG POLE LIGHTS. EXTEND CONDUIT TO LIGHTING CONTACTOR IN LEVEL 3 FAN ROOM. REFER TO SHEETS E200 AND E302 FOR ADDITIONAL INFORMATION.
- 4

PROVIDE EXTERIOR BUILDING MOUNTED LIGHTS AT LOCATION INDICATED. CONNECT LIGHTS TO LIGHT SWITCHES PROVIDED IAW SHEET E203. REFER TO LIGHTING FIXTURE SCHEDULE ON SHEET E002 FOR ADDITIONAL INFORMATION.
- 5

REFER TO SHEET E200 FOR ADDITIONAL INFORMATION.
- 6

PROVIDE RAYCHEM MODEL GM-1XT HEATING CABLING IN QUANTITIES AS INDICATED ON THE ARCHITECTURAL DRAWINGS. CONNECT HEAT TRACE TO CIRCUIT INDICATED VIA PILOT LIGHT SWITCH PROVIDED IAW SHEET E302.
- 7

REFER TO SHEET E302 FOR BRANCH CIRCUIT PANEL LOCATIONS SERVING MECHANICAL EQUIPMENT. REFER TO SHEET E003 FOR ASSOCIATED PANEL SCHEDULES.
- 8

REFER TO ONE-LINE FEEDER SCHEDULE ON E401 FOR CORRESPONDING FEEDER TAG INFORMATION.

AMC

ENGINEERS

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STATE OF ALASKA

49TH

Aaron S. Jordan  
6/24/2022  
EE-12624  
REGISTERED PROFESSIONAL ENGINEER

© 21805

ALASKA COURT SYSTEM  
SNOWDEN ADMIN BUILDING  
MECHANICAL UPGRADES

Revisions

No.	Date	Description

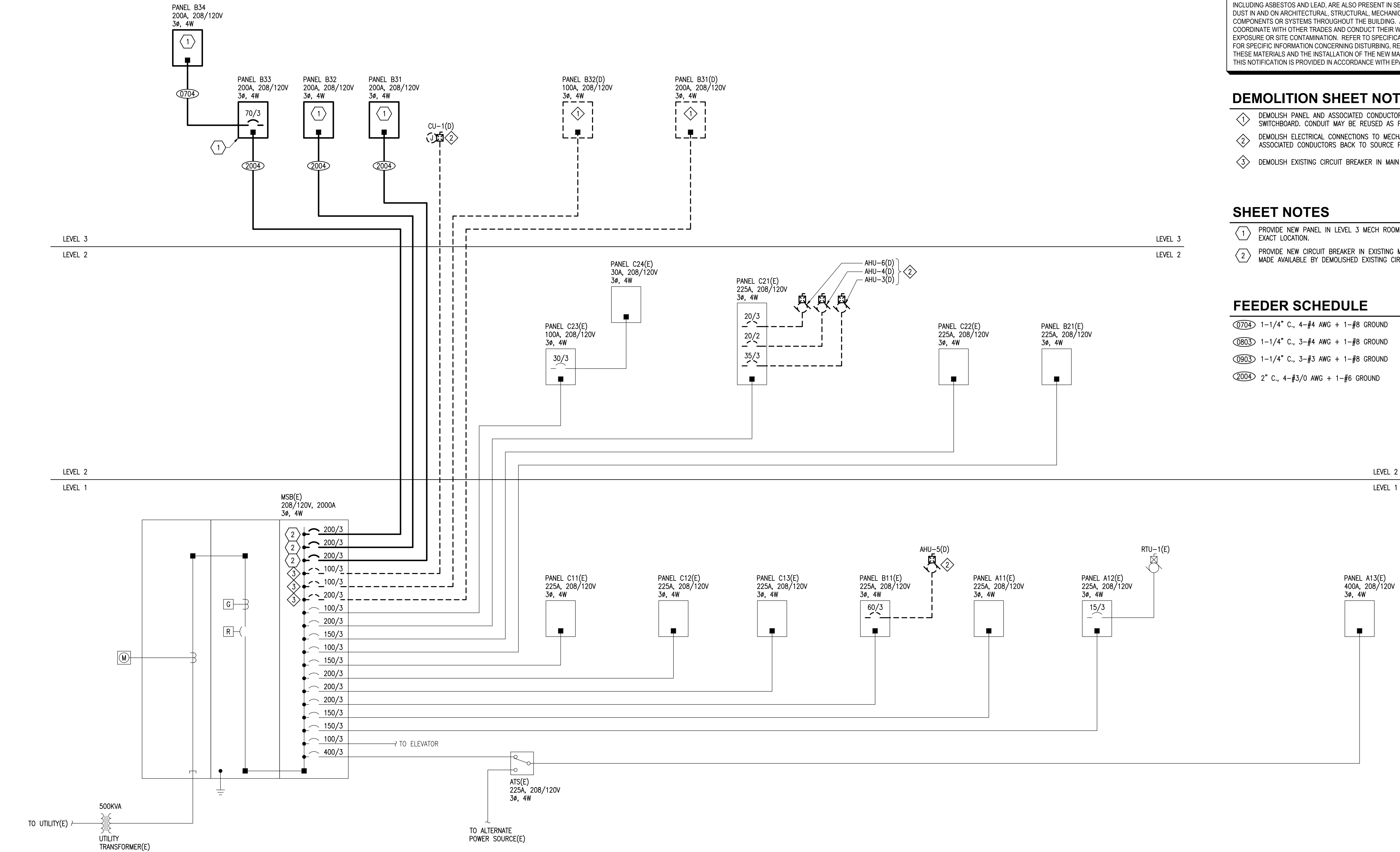
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SCALE ACCORDINGLY

Designed by: ASJ  
Checked by: KAC  
AMC Project: 21805  
Date: 6/24/2022  
Project Phase  
PERMIT DRAWINGS

Sheet Title  
ROOF PLAN -  
ELECTRICAL

Sheet Number  
E303

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**1** **DIAGRAM - POWER ONE LINE**  
E401 SCALE: NONE

MOA ePlans Stamp

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**DEMOLITION SHEET NOTES**

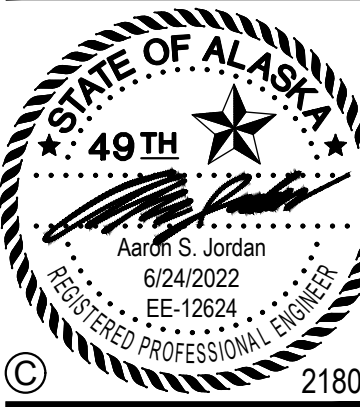
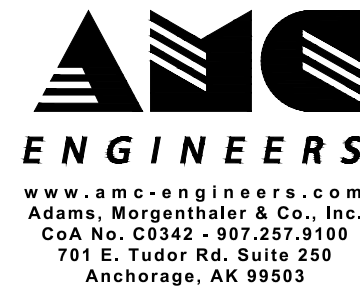
- 1 DEMOLISH PANEL AND ASSOCIATED CONDUCTORS BACK TO MAIN SWITCHBOARD. CONDUIT MAY BE REUSED AS FEASIBLE.
- 2 DEMOLISH ELECTRICAL CONNECTIONS TO MECHANICAL EQUIPMENT AND ASSOCIATED CONDUCTORS BACK TO SOURCE PANEL.
- 3 DEMOLISH EXISTING CIRCUIT BREAKER IN MAIN SWITCHBOARD.

**SHEET NOTES**

- 1 PROVIDE NEW PANEL IN LEVEL 3 MECH ROOM. SEE SHEET E302 FOR EXACT LOCATION.
- 2 PROVIDE NEW CIRCUIT BREAKER IN EXISTING MAIN SWITCHBOARD IN SPACE MADE AVAILABLE BY DEMOLISHED EXISTING CIRCUIT BREAKER.

**FEEDER SCHEDULE**

- Ø704 1-1/4" C., 4-#4 AWG + 1-#8 GROUND
- Ø803 1-1/4" C., 3-#4 AWG + 1-#8 GROUND
- Ø903 1-1/4" C., 3-#3 AWG + 1-#8 GROUND
- 2004 2" C., 4-#3/0 AWG + 1-#6 GROUND



**ALASKA COURT SYSTEM  
SNOWDEN ADMIN BUILDING  
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Designed by: ASJ  
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Project Phase  
**PERMIT DRAWINGS**

Sheet Title  
**DIAGRAM - POWER  
ONE-LINE**

Sheet Number  
**E401**



1. THE HAZARDS ABATEMENT PORTION OF THIS PROJECT INCLUDES THE DISTURBANCE AND/OR REMOVAL AND DISPOSAL OF SELECTED ASBESTOS-CONTAINING MATERIALS, MERCURY-CONTAINING MATERIALS, LEAD-CONTAINING MATERIALS AND ITEMS CONTAINING RADIOACTIVE COMPOUNDS. THE PURPOSE OF THE HAZARDS ABATEMENT PORTION OF THE WORK IS TO REMOVE THESE MATERIALS FROM THE SNOWDEN ADMINISTRATION BUILDING PRIOR TO RENOVATION OR DEMOLITION SO THAT PERSONNEL CAN SAFELY PERFORM THEIR WORK WITHOUT CREATING HAZARDS TO HEALTH OR THE ENVIRONMENT.
2. THE WORK DOES NOT INCLUDE REMOVAL OF ALL HAZARDOUS MATERIALS IN THE BUILDING. REMOVE HAZARDOUS MATERIALS COORDINATING WITH OTHER TRADES, AS SPECIFIED AND/OR INDICATED ON THE DRAWINGS, OUTLINED IN THE SPECIFICATIONS, AND AS REQUIRED TO COMPLETE THE WORK. "REMOVAL" INCLUDES PROPER HANDLING, PACKAGING AND DISPOSAL OF MATERIALS REMOVED.
3. POTENTIALLY HAZARDOUS MATERIALS SUCH AS MERCURY-CONTAINING LAMPS AND THERMOSTATS, SMOKE DETECTORS CONTAINING RADIOACTIVE COMPONENTS, METALLIC LEAD ITEMS, REFRIGERANTS AND HEATING SYSTEM FLUIDS AFFECTED BY THE PROJECT ARE TO BE REMOVED AND DISPOSED OF PROPERLY. REFER TO SPECIFICATIONS AND THE CONTRACTOR'S APPROVED WORK PLAN FOR HAZARDOUS MATERIALS REMOVAL, DISTURBANCE, CLEARANCE, AND DISPOSAL PROCEDURES.
4. LEAD-BASED PAINTS (PAINT CONTAINING EQUAL TO OR GREATER THAN 1.0 mg/cm<sup>2</sup>) WERE IDENTIFIED DURING THE LIMITED LEAD TESTING SHOWN IN THE HAZMAT SURVEY, AND LEAD-BASED PAINTS MAY BE PRESENT AT OTHER LOCATIONS. LOW LEVELS OF LEAD FOUND BY XRF TESTING DOES NOT MEAN THE PAINTS ARE FREE OF LEAD, THE PAINTS MAY CONTAIN MEASURABLE AMOUNTS OF LEAD. LEAD-CONTAINING MATERIALS INCLUDE ALL PAINTED SURFACES, CERAMIC TILES, AND METALLIC LEAD, AS WELL AS LEAD-CONTAINING DUSTS. THIS IS NOT A LEAD ABATEMENT PROJECT, AND ALL TRADES WILL LIKELY DISTURB SOME LEAD-CONTAINING MATERIALS. CONTROL WORKER EXPOSURES USING LEAD-SAFE WORK PRACTICES AND CHOICE OF MEANS AND METHODS OF CONDUCTING THE WORK TO COMPLY WITH 29 CFR 1926.62 AND TO AVOID CONTAMINATION OF THE WORK AREA AND SITE.
5. PERFORM INITIAL AIR MONITORING TESTS ON ALL TASKS THAT DISTURB ASBESTOS OR LEAD-CONTAINING MATERIALS, DUST OR PAINT TO DETERMINE THE APPROPRIATE WORKER AND SITE PROTECTION PROCEDURES REQUIRED. METALLIC LEAD IS ASSUMED PRESENT IN BELL AND SPIGOT PIPE JOINTS AND IN SOLDER ON COPPER PIPES.
6. SETTLED AND CONCEALED DUST ON ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND MECHANICAL COMPONENTS THROUGHOUT THE PROJECT AREA(S) CONTAINS REGULATED AIR CONTAMINANTS INCLUDING ASBESTOS AND LEAD. WORK OF ALL TRADES MAY INCLUDE DISTURBANCE OF ASBESTOS AND LEAD AND MAY RESULT IN WORKER EXPOSURE TO ASBESTOS AND LEAD ABOVE THE OSHA ACTION LEVEL OR PERMISSIBLE EXPOSURE LIMITS FOR ASBESTOS OR LEAD IF PROPER WORK PRACTICES AND/OR ENGINEERING CONTROLS ARE NOT USED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CHOOSE APPROPRIATE WORKER AND SITE PROTECTION PROCEDURES SO THAT THEIR WORKERS ARE NOT EXPOSED ABOVE THOSE LIMITS AND THAT WORK IS PERFORMED IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS. THE PRESENCE OF ASBESTOS OR LEAD IN DUSTS DOES NOT NECESSARILY MAKE THEM A HAZARD TO WORKERS OR A HAZARDOUS WASTE.
7. THE CONTRACTOR'S INDEPENDENT LABORATORY SHALL PROVIDE ALL INSPECTIONS, MONITORING, SAMPLING, ANALYSES AND REPORTING SERVICES AS SPECIFIED. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION ON SAMPLING AND CLEARANCE REQUIREMENTS.
8. LOCATIONS OF MATERIALS SHOWN ON THESE DRAWINGS ARE SCHEMATIC AND APPROXIMATE. FIELD VERIFY AND COORDINATE CONSTRUCTION DETAILS, DIMENSIONS, WORK CONDITIONS, AND LOCATIONS WHICH WILL AFFECT THE REMOVAL OR DISTURBANCE OF HAZARDOUS MATERIALS. HAZARDOUS MATERIALS MAY HAVE COME LOOSE AND FALLEN ONTO FLOORS, CEILINGS, CHASES, OR WALL CAVITIES. THE QUANTITIES SHOWN IN THE SHEET SUMMARY ARE APPROXIMATE AND MAY VARY DEPENDING ON THE CONTRACTOR'S MEANS AND METHODS. REQUIRE ALL TRADES TO COORDINATE WITH EACH OTHER AND TO CONDUCT THEIR WORK TO PREVENT WORKER EXPOSURE OR SITE CONTAMINATION. SEE DRAWINGS OF ALL DISCIPLINES FOR ADDITIONAL INFORMATION RELATING TO HAZARDOUS MATERIALS. IMMEDIATELY COMMUNICATE ALL DISCREPANCIES IN QUANTITIES TO THE OWNER. REFER TO HAZARDOUS MATERIALS ASSESSMENT FOR MORE INFORMATION ABOUT POTENTIALLY HAZARDOUS MATERIALS THAT ARE NOT SCHEDULED FOR DISTURBANCE BY THIS PROJECT. FURNISH ALL WORK AND MATERIALS REQUIRED FOR A FINISHED PROJECT AS DESCRIBED IN THE CONTRACT DOCUMENTS. QUANTITIES LISTED WITH A \* MAY VARY DEPENDING ON THE CONTRACTOR'S MEANS AND METHODS. CONTRACTOR'S MEANS AND METHODS RESULTING IN ADDITIONAL MATERIALS REMOVAL SHALL NOT RESULT IN ADDED CONTRACT COSTS TO THE OWNER.
9. PROVIDE ALL WASTE TESTING, PACKAGING, HANDLING, TRANSPORTATION AND DISPOSAL. ALL COSTS FOR DISPOSAL SHALL BE BORNE BY THE CONTRACTOR. PERFORM TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP) TEST(S) OF WASTE(S) CONTAINING LEAD OR PAINTED WITH LEAD-CONTAINING PAINT TO CHARACTERIZE THE WASTE(S) AS HAZARDOUS OR NON-HAZARDOUS PRIOR TO DISPOSAL. PERFORM TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP) TEST(S) OF HEAT TRANSFER FLUIDS (GLYCOL OR WATER) IN HEATING SYSTEM TO CHARACTERIZE THE WASTE(S) AS HAZARDOUS OR NON-HAZARDOUS PRIOR TO DISPOSAL. COORDINATE REQUIREMENTS OF LANDFILL(S) REGARDING MATERIALS PACKAGING, HANDLING, AND DISPOSAL REQUIREMENTS PRIOR TO SUBMITTING BID.

INCIDENTAL QUANTITIES OF MATERIALS, INCLUDING LEAD-CONTAINING MATERIALS, THAT ARE REQUIRED TO BE REMOVED TO COMPLETE THE WORK, BUT OTHERWISE ARE TO REMAIN, ARE NOT INCLUDED HERE, AS THEY WILL VARY DEPENDING ON THE CONTRACTOR'S CHOICE OF MEANS AND METHODS.

2,540 SQUARE FEET OF GYPSUM WALLBOARD AT CEILINGS WITH ASBESTOS CONTAINING JOINT COMPOUND.

60 LINEAR FEET OF ASBESTOS-CONTAINING FLEXIBLE DUCT CONNECTORS.

1 LOT ASBESTOS-CONTAINING GASKETS AND VALVE PACKINGS ON PIPING

13,500\* SQUARE FEET, PLANAR AREA OF CEILING TILES AND GYPSUM WALL BOARD CEILINGS WITH DEBRIS FROM BUILT-UP ROOFING

1,650\* SQUARE FEET OF ROOF DECKING TO BE CLEANED OF DEBRIS FROM BUILT-UP ROOFING

15 EACH ROOF MOUNTED EQUIPMENT, ETC. WITH ASBESTOS-CONTAINING ROOF PATCHING COMPOUNDS

385 SQUARE FEET OF FLOORING WITH ASSUMED ASBESTOS-CONTAINING MASTICS.

1 LOT OTHER ASBESTOS-CONTAINING MATERIALS SUCH AS PIPE INSULATION, CEILING GRID MASTICS, ETC

## 1 MERCURY-CONTAINING THERMOSTATS

175 MERCURY-CONTAINING FLUORESCENT BULBS FROM FIXTURES

40\* LINEAR FEET OF ASBESTOS-CONTAINING CEILING GRID MASTICS

INCIDENTAL QUANTITIES OF MATERIALS, INCLUDING LEAD-CONTAINING MATERIALS, THAT ARE REQUIRED TO BE REMOVED TO COMPLETE THE WORK, BUT OTHERWISE ARE TO REMAIN, ARE NOT INCLUDED HERE, AS THEY WILL VARY DEPENDING ON THE CONTRACTOR'S CHOICE OF MEANS AND METHODS.

4,500\* SQUARE FEET, PLANAR AREA OF CEILING TILES AND GYPSUM WALL BOARD CEILINGS WITH DEBRIS FROM BUILT-UP ROOFING

INCIDENTAL QUANTITIES OF MATERIALS, INCLUDING LEAD-CONTAINING MATERIALS, THAT ARE REQUIRED TO BE REMOVED TO COMPLETE THE WORK, BUT OTHERWISE ARE TO REMAIN, ARE NOT INCLUDED HERE, AS THEY WILL VARY DEPENDING ON THE CONTRACTOR'S CHOICE OF MEANS AND METHODS.

995 MERCURY-CONTAINING FLUORESCENT BULBS FROM FIXTURES

HAZARDS ABATEMENT DRAWINGS DO NOT SHOW ALL DETAILS OF WORK REQUIRED. ALL TRADES SHALL EXAMINE DRAWINGS OF OTHER TRADES AND COORDINATE WITH EACH OTHER TO DETERMINE EXTENT, TIMING AND LOCATIONS OF MATERIALS AFFECTED BY THE PROJECT.

- 1) COORDINATE EXTENTS, AND REMOVE AND DISPOSE OF GYPSUM WALL BOARD WITH ASBESTOS-CONTAINING JOINT COMPOUND IN THE 1946, 1950, 1956, AND 1968 ERAS AT WALLS, CEILINGS AND SOFFITS ETC. AS SHOWN AND AS COORDINATED FOR PENETRATIONS, ETC. LOCATIONS SHOWN "FADED" ARE GENERALLY TO REMAIN IN PLACE AND HAVE PENETRATIONS CREATED AS NECESSARY. LOCATIONS SHOWN "BOLD" REQUIRE REMOVAL.
- 2) REMOVE AND DISPOSE OF FLOORING WITH ASSUMED ASBESTOS-CONTAINING MASTICS.
- 3) REMOVE AND DISPOSE OF AIR HANDLING UNITS IN MECHANICAL ROOMS WITH ASBESTOS-CONTAINING SEAM SEALANTS BETWEEN AHU SECTIONS AND ASBESTOS-CONTAINING FLEXIBLE DUCT CONNECTORS.
- 4) REMOVE AND DISPOSE OF ASBESTOS-CONTAINING CEILING GRID MASTIC ONLY AS NECESSARY TO COMPLETE THE WORK.
- 5) REMOVE AND DISPOSE OF BOILERS WITH ASSUMED ASBESTOS-CONTAINING GASKETS AND SEALANTS.
- 6) REMOVE AND DISPOSE OF ASSUMED ASBESTOS-CONTAINING FLANGE GASKETS AND VALVE PACKINGS ON PIPING SYSTEMS ONLY AS REQUIRED TO ACCOMMODATE THE WORK.
- 7) REMOVE AND DISPOSE OF HEAT TRANSFER FLUIDS FROM AFFECTED HEATING SYSTEMS ONLY AS REQUIRED TO ACCOMMODATE THE WORK.
- 8) REMOVE AND DISPOSE OF DEBRIS FROM FORMER ASBESTOS-CONTAINING BUILT-UP ROOF NOTED ON TOP OF CEILING SURFACE THROUGHOUT THE 1956 AND 1968 ERAS ONLY AS REQUIRED TO ACCOMMODATE THE WORK. THIS INCLUDES BOTH BASE BID AND ADDITIVE ALTERNATE #1.
- 9) CREATE PENETRATIONS THROUGH NON-ASBESTOS ROOFING WITH DEBRIS FROM PREVIOUS ROOFING MATERIALS AT ROOF DECK, ETC.
- 10) REMOVE ROOF MOUNTED COMPONENTS WITH ASSUMED REMNANTS OF ASBESTOS-CONTAINING ROOF "PATCHING" TARS AT EQUIPMENT PENETRATIONS, PRIOR REPAIR OR PATCHING LOCATIONS, MISCELLANEOUS FLASHING, SEISMIC JOINTS, ETC.
- 11) REMOVE MERCURY CONTAINING FLUORESCENT LIGHT TUBE AND COMPACT FLUORESCENT BULBS AS COORDINATED WITH OTHER TRADES. THIS INCLUDES BOTH BASE BID AND ADDITIVE ALTERNATIVE #2.
- 12) REMOVE MERCURY-CONTAINING THERMOSTAT.
- 13) NOT ALL ASBESTOS-CONTAINING OR OTHER POTENTIALLY HAZARDOUS MATERIALS ARE SHOWN BY THESE DRAWINGS. REFER TO THE HAZARDOUS MATERIALS ASSESSMENT AND AS-BUILTS FOR KNOWN OR ASSUMED ASBESTOS-CONTAINING OR OTHER POTENTIALLY HAZARDOUS MATERIALS AND THEIR LOCATIONS.

FADED INDICATES MATERIAL GENERALLY TO REMAIN AND BE DISTURBED AS NECESSARY TO COMPLETE THE WORK. BOLD INDICATES MATERIAL TO BE REMOVED AS COORDINATED WITH OTHER TRADES.

LOCATION OF SPRAY-ON TEXTURE "ABATED" AVOID DISTURBING.

DEBRIS FROM FORMER ASBESTOS-CONTAINING BUILT-UP ROOFING SYSTEMS.

 EQUIPMENT WITH ASBESTOS-CONTAINING SEALANTS, MASTICS, AND GASKETS TO BE REMOVED.

FLOORING WITH ASSUMED ASBESTOS-CONTAINING MASTICS TO BE REMOVED.

PIPING WITH ASBESTOS-CONTAINING INSULATION. MAY REPRESENT MULTIPLE PIPE RUNS.

ASBESTOS-CONTAINING JOINT COMPOUND.  
COORDINATE REMOVAL VERSUS PENETRATIONS.

XXXXXXXXXXXX ASBESTOS-CONTAINING FLEXIBLE DUCT CONNECTOR

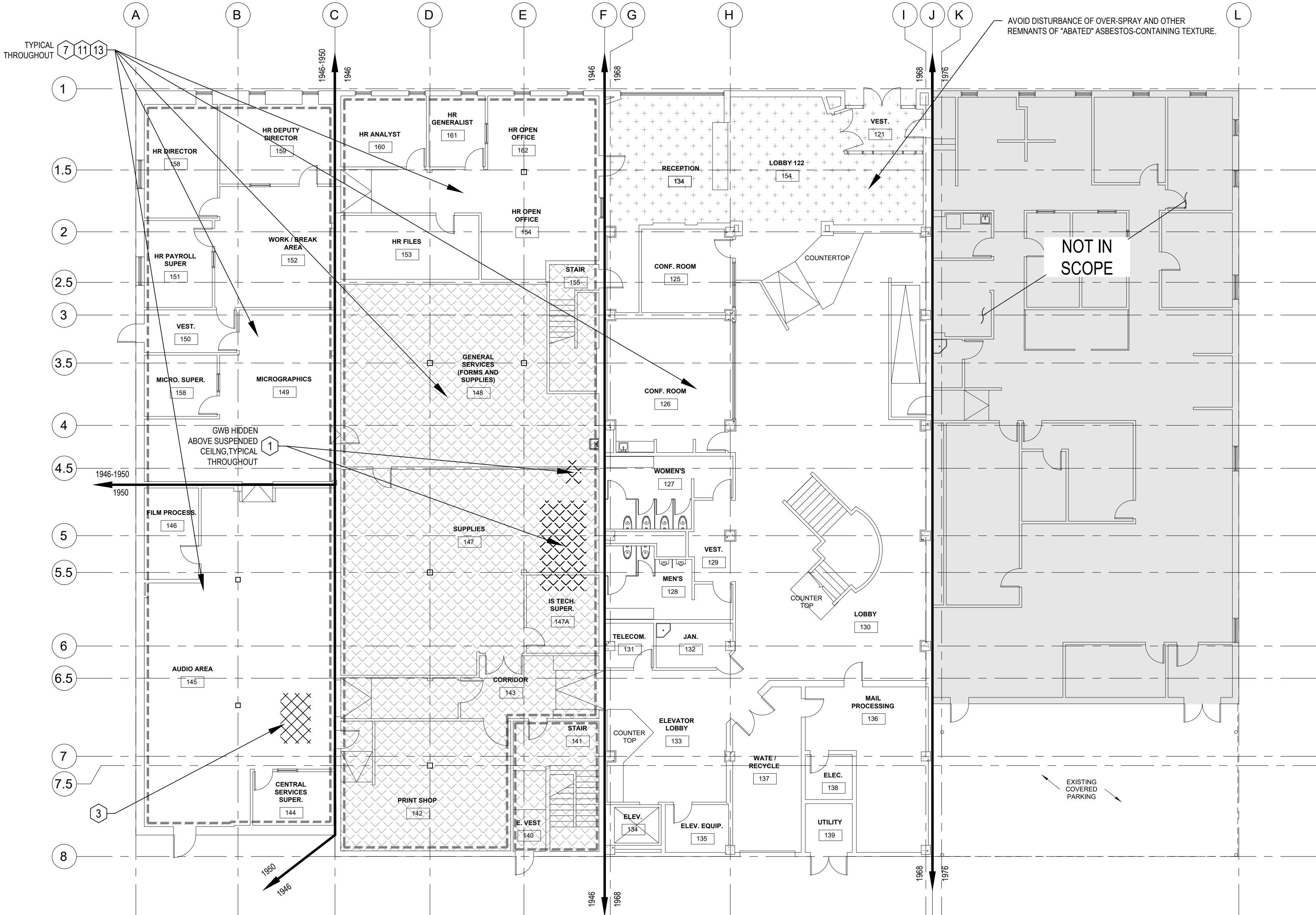
ASBESTOS-CONTAINING GRID MASTIC



SHEET NOTES

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- MISCELLANEOUS FLASHING, SEISMIC JOINTS, ETC.
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1  
H101  
HAZARDS ABATEMENT - FIRST FLOOR PLAN  
FULL SIZE: 3/32" = 1'-0" HALF SIZE: 3/64" = 1'-0"

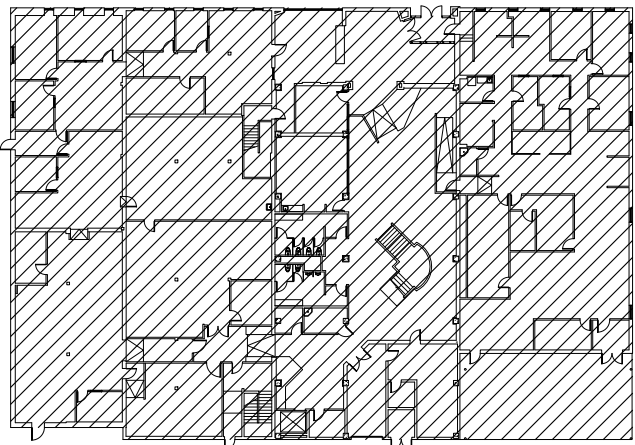
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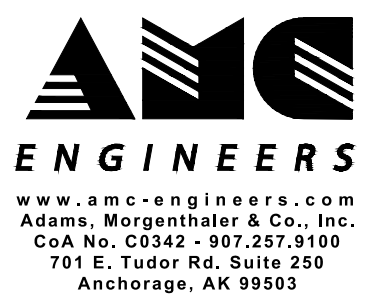
LEGEND

FADED INDICATES MATERIAL GENERALLY TO REMAIN AND BE DISTURBED AS NECESSARY TO COMPLETE THE WORK. BOLD INDICATES MATERIAL TO BE REMOVED AS COORDINATED WITH OTHER TRADES.

- LOCATION OF SPRAY-ON TEXTURE "ABATED" AVOID DISTURBING.
- DEBRIS FROM FORMER ASBESTOS-CONTAINING BUILT-UP ROOFING SYSTEMS.
- EQUIPMENT WITH ASBESTOS-CONTAINING SEALANTS, MASTICS, AND GASKETS TO BE REMOVED.
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- ASBESTOS-CONTAINING FLEXIBLE DUCT CONNECTOR
- ASBESTOS-CONTAINING GRID MASTIC
- MERCURY-CONTAINING THERMOSTAT



KEY PLAN  
NO SCALE



11901 Business Blvd, Suite 208,  
Eagle River, AK 99577-7701  
PH: 907-694-1383 FAX: 907-694-1382  
LICENSE# ABC2889 www.ehs-alaska.com

ALASKA COURT SYSTEM  
SNOWDEN ADMIN BUILDING  
MECHANICAL UPGRADES

Revisions		
No.	Date	Description

1 INCH AT FULL SIZE  
IF NOT 1 INCH,  
SCALE ACCORDINGLY

Designed by: JHL  
Checked by: RAF  
AMC Project: 21805  
Date: 6/24/2022  
Project Phase  
**PERMIT DRAWINGS**

Sheet Title  
HAZARDS ABATEMENT -  
FIRST FLOOR PLAN

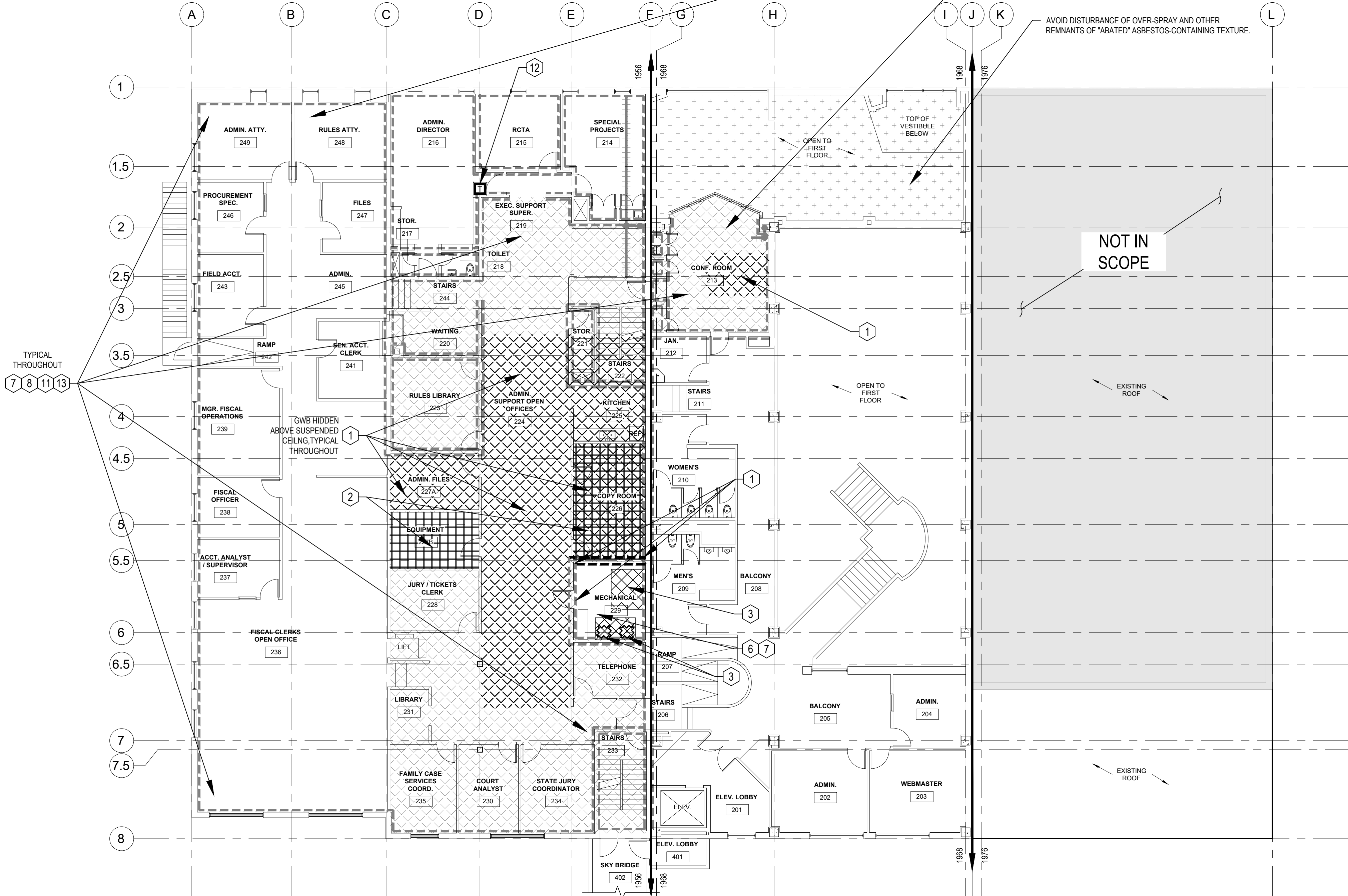
Sheet Number  
**H101**



SHEET NOTES

HAZARDS ABATEMENT DRAWINGS DO NOT SHOW ALL DETAILS OF WORK REQUIRED. ALL TRADES SHALL EXAMINE DRAWINGS OF OTHER TRADES AND COORDINATE WITH EACH OTHER TO DETERMINE EXTENT, TIMING AND LOCATIONS OF MATERIALS AFFECTED BY THE PROJECT.

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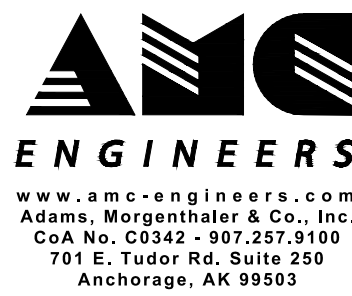
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KEY PLAN

NO SCALE



ALASKA COURT SYSTEM  
SNOWDEN ADMIN BUILDING  
MECHANICAL UPGRADES

Revisions

No.	Date	Description

1 INCH AT FULL SIZE

IF NOT 1 INCH,  
SCALE ACCORDINGLY

Designed by: JHL

Checked by: RAF

AMC Project: 21805

Date: 6/24/2022

Project Phase  
PERMIT DRAWINGS

Sheet Title  
HAZARDS ABATEMENT -  
SECOND FLOOR PLAN

Sheet Number

H102



HAZARDS ABATEMENT DRAWINGS DO NOT SHOW ALL DETAILS OF WORK REQUIRED. ALL TRADES SHALL EXAMINE DRAWINGS OF OTHER TRADES AND COORDINATE WITH EACH OTHER TO DETERMINE EXTENT, TIMING AND LOCATIONS OF MATERIALS AFFECTED BY THE PROJECT.










- 
- Architectural floor plan of the 3rd floor of the University of California, San Diego (UCSD) Library. The plan shows various rooms including Special Projects Mgr. (312), Facilities Plans Room (310), ADA Toilet (308), Stairs (311), E. Mech. Room (307), Sample Room (302), Elev. Lobby (301), Facilities Files (304), Facilities Managers Office (305), Leasing Manager (305B), and Asst. Facilities Mgr. (305A). It also indicates areas 'NOT IN SCOPE' and 'EXISTING ROOF'. The plan is overlaid with a grid from A to L and 1 to 8.

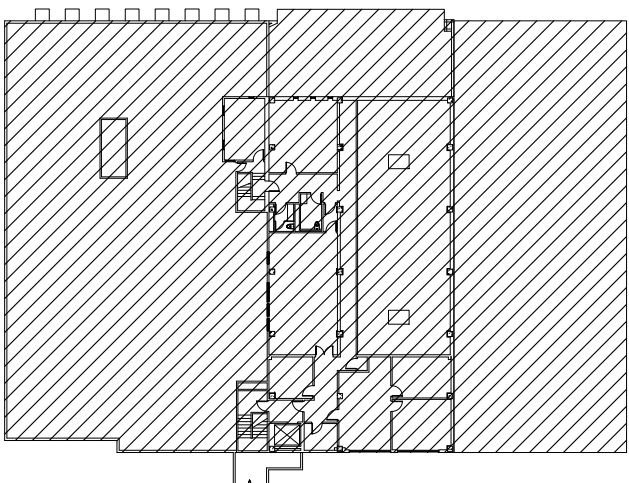
FULL SIZE:  $\frac{3}{32}" = 1'-0"$  HALF SIZE:  $\frac{3}{64}" = 1'-0"$




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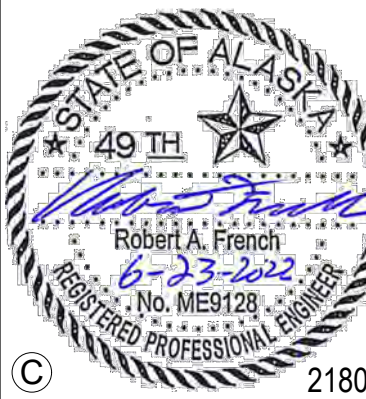
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- |   |  |
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|  | ASBESTOS-CONTAINING GRID MASTIC  |
|  | MERCURY-CONTAINING THERMOSTAT  |



NO SCALE



**AMC**  
**ENGINEERS**  
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**EHS ALASKA**  
INCORPORATED

ENGINEERING, HEALTH &  
SAFETY CONSULTANTS  
11901 Business Blvd, Suite 208,  
Eagle River, AK 99577-7701  
PH: 907-694-1383 FAX: 907-694-1382  
LICENSE# ARCC689 [www.ehs-alaska.com](http://www.ehs-alaska.com)

# ALASKA COURT SYSTEM SNOWDEN ADMIN BUILDING MECHANICAL UPGRADES

## Revisions

No.	Date	Description

1 INCH AT FULL SIZE

IF NOT 1 INCH,  
SCALE ACCORDINGLY

Designed by: JH

Checked by: RA

AMC Project: 2180

Date: 6/24/202

Project Phase  
**PERMIT DRAWINGS**

Sheet Title  
HAZARDS ABATEMENT -  
THIRD FLOOR AND  
LOWER ROOF PLAN

Sheet Number

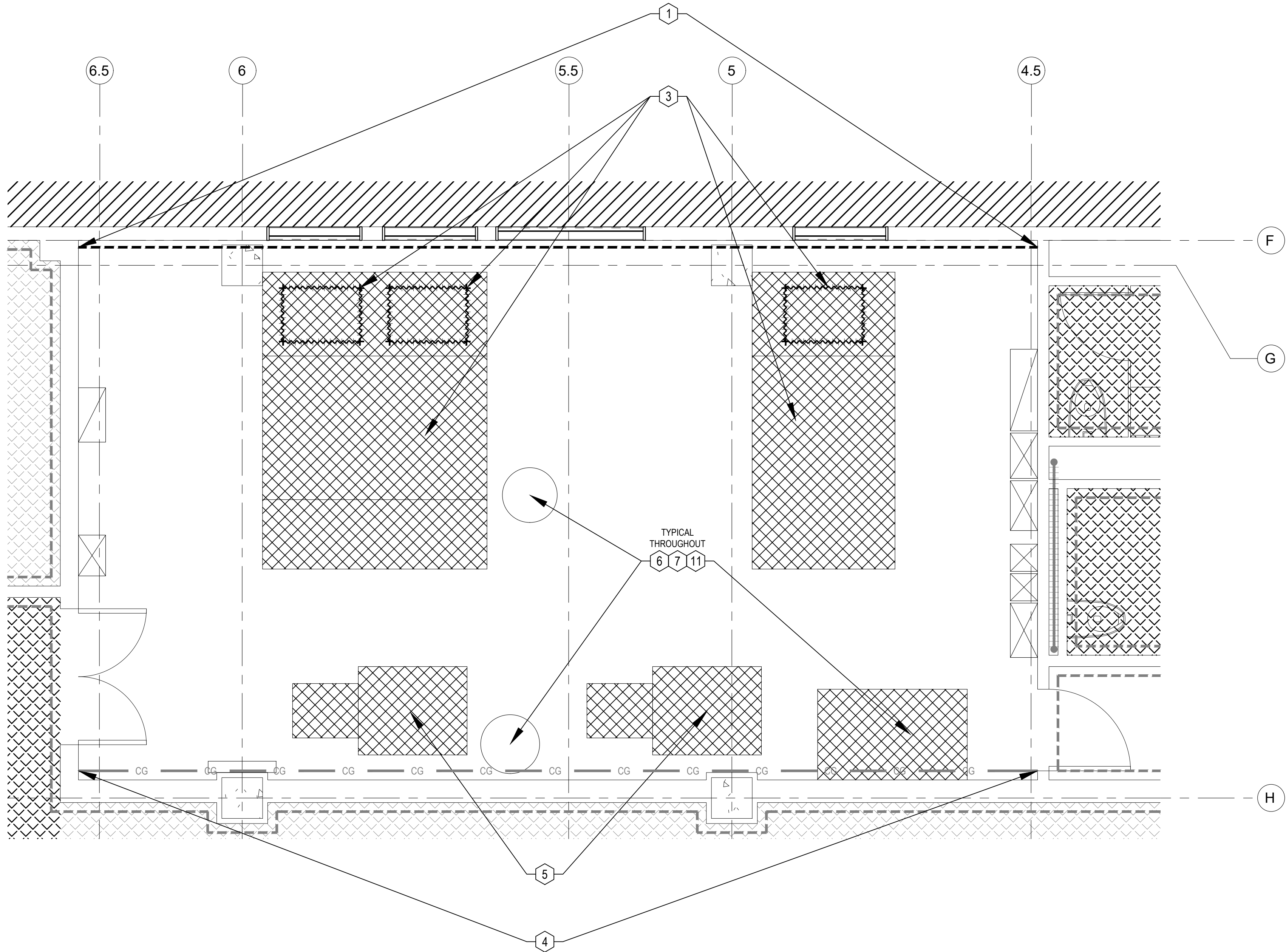
# H103



SHEET NOTES

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- 7
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- 8
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- LOCATION OF SPRAY-ON TEXTURE "ABATED" AVOID DISTURBING.
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- DEBRIS FROM FORMER ASBESTOS-CONTAINING BUILT-UP ROOFING SYSTEMS.
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- EQUIPMENT WITH ASBESTOS-CONTAINING SEALANTS, MASTICS, AND GASKETS TO BE REMOVED.
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- FLOORING WITH ASSUMED ASBESTOS-CONTAINING MASTICS TO BE REMOVED.
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- PIPING WITH ASBESTOS-CONTAINING INSULATION. MAY REPRESENT MULTIPLE PIPE RUNS.
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- LOCATION OF VERTICAL GYPSUM WALL BOARD WITH ASBESTOS-CONTAINING JOINT COMPOUND. COORDINATE REMOVAL VERSUS PENETRATIONS.
- XXXXX

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XXXXX
- LOCATION OF HORIZONTAL GYPSUM WALL BOARD ABOVE SUSPENDED CEILING, WITH ASBESTOS-CONTAINING JOINT COMPOUND. COORDINATE REMOVAL VERSUS PENETRATIONS.
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- ASBESTOS-CONTAINING FLEXIBLE DUCT CONNECTOR
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- ASBESTOS-CONTAINING GRID MASTIC
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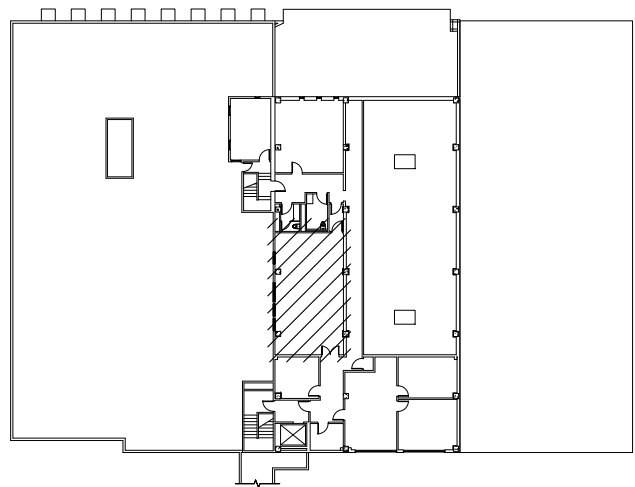
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- MERCURY-CONTAINING THERMOSTAT



KEY PLAN

NO SCALE



ALASKA COURT SYSTEM  
SNOWDEN ADMIN BUILDING  
MECHANICAL UPGRADES

Revisions

| No. | Date | Description |
|-----|------|-------------|
|     |      |             |
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1 INCH AT FULL SIZE  
IF NOT 1 INCH,  
SCALE ACCORDINGLY

|               |                 |
|---------------|-----------------|
| Designed by:  | JHL             |
| Checked by:   | RAF             |
| AMC Project:  | 21805           |
| Date:         | 6/24/2022       |
| Project Phase | PERMIT DRAWINGS |

Sheet Title  
HAZARDS ABATEMENT -  
ENLARGED PLAN - THIRD  
FLOOR MECHANICAL  
ROOM

Sheet Number

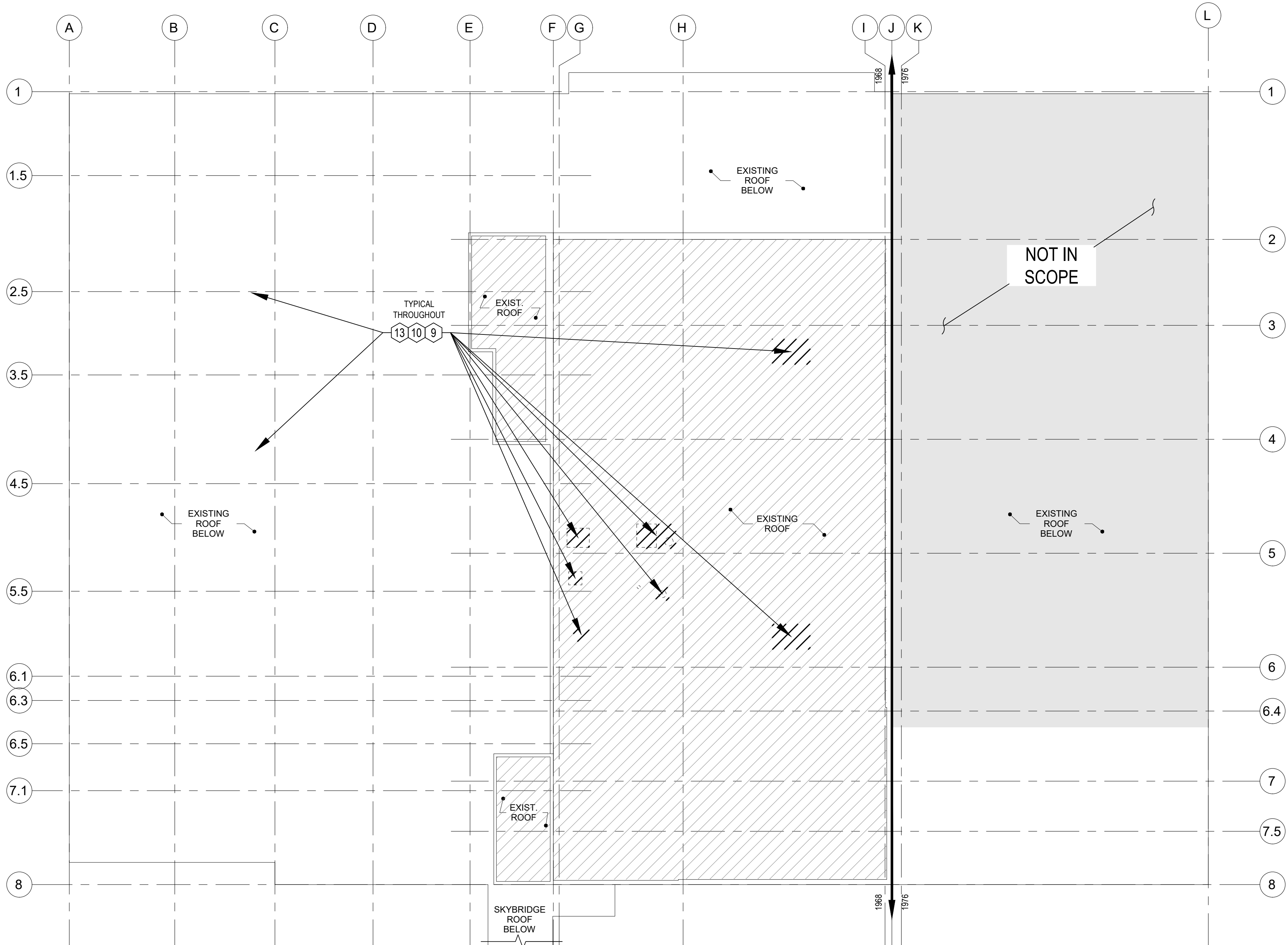
H104



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1

H105

HAZARDS ABATEMENT - ROOF PLAN

FULL SIZE: 3/32" = 1'-0" HALF SIZE: 3/64" = 1'-0"

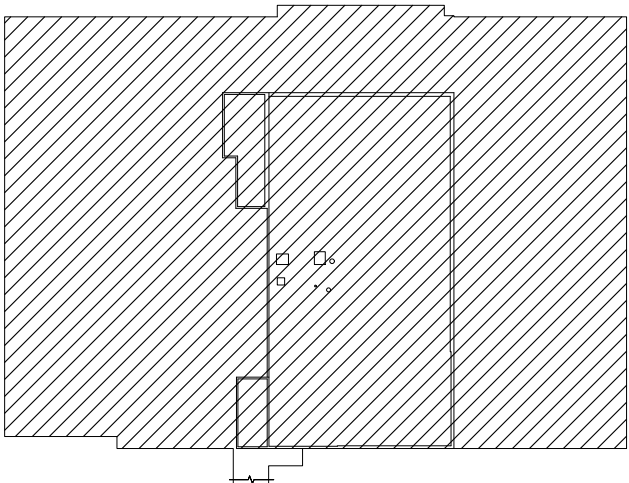
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- LOCATION OF VERTICAL GYPSUM WALL BOARD WITH ASBESTOS-CONTAINING JOINT COMPOUND. COORDINATE REMOVAL VERSUS PENETRATIONS.
- 
- LOCATION OF HORIZONTAL GYPSUM WALL BOARD ABOVE SUSPENDED CEILING, WITH ASBESTOS-CONTAINING JOINT COMPOUND. COORDINATE REMOVAL VERSUS PENETRATIONS.
- 
- ASBESTOS-CONTAINING FLEXIBLE DUCT CONNECTOR
- 
- CG
- 
- ASBESTOS-CONTAINING GRID MASTIC
- 
- MERCURY-CONTAINING THERMOSTAT



KEY PLAN

NO SCALE



ALASKA COURT SYSTEM  
SNOWDEN ADMIN BUILDING  
MECHANICAL UPGRADES

Revisions

| No. | Date | Description |
|-----|------|-------------|
|     |      |             |
|     |      |             |
|     |      |             |
|     |      |             |
|     |      |             |

1 INCH AT FULL SIZE  
IF NOT 1 INCH,  
SCALE ACCORDINGLY

|               |                        |
|---------------|------------------------|
| Designed by:  | JHL                    |
| Checked by:   | RAF                    |
| AMC Project:  | 21805                  |
| Date:         | 6/24/2022              |
| Project Phase | <b>PERMIT DRAWINGS</b> |

Sheet Title  
HAZARDS ABATEMENT -  
ROOF PLAN

Sheet Number

H105