



ADDENDUM

JLG 24146-5 Dunn County Courthouse Renovation

RE: addendum

Issued: November 4, 2025

ADDENDUM #: 01

NOTICE TO CONTRACTORS

This Addendum is prepared to supplement information presented in the Drawings and Project Manual dated October 21, 2025 for the above referenced project. All additions, changes, omissions and conditions listed herein shall become an integral part of the Contract Documents.

CLARIFICATIONS

1. It is the intent to match existing finishes, both interior and exterior, for the remodel and new construction areas of this project.

PROCUREMENT AND CONTRACTING REQUIREMENTS

2. SECTION 00 3000 – SITE ACCESS PLAN
 - o Add section in its entirety.
3. SECTION 00 2413 – SCOPES OF WORK
 - o Add section in its entirety.

ATTACHMENTS

1. Dunn County Question Log
2. Mechanical Addendum
3. Electrical Addendum

END OF ADDENDUM

PLAN AND SPECIFICATION QUESTIONS

Project Name: **Dunn County Courthouse Remodel & Public Safety Center**
 Architect: **JLG Architects**
 Bid Date: **November 13, 2025**



Architect/Engineer remarks in red.

Question#	Building	Plan Sheet / Specification	Date of Question	Date of Answer	Discipline	Questions/Clarifications	Response
1	Public Safety Center		10/27/25	11/04/25	ACT	Substitution Request: ACT-1 – Public Safety Center: -Specified: Armstrong Ultima High-NRC #1942 -Proposed: USG Mars High-NRC #87100 ACT-2 – Public Safety Center: -Specified: Armstrong Cirrus Second Look #511 -Proposed: USG Eclipse Illusion #78085 (VE Alternate option – scoring for specified not available from USG) WWAP-1—3 – Public Safety Center: -Specified: Wood Wool Lay-In Ceiling Panels and Wall Panels -Proposed: Tectum Lay-In Ceiling Panels & Wall Panels WCS-1 – Public Safety Center: -Specified: Armstrong Woodworks Linear -Proposed: 5th Wall Designs Linear	ACT-1, WWAP-1, WWAP-2, WWAP-3 will be included in Addendum 1. ACT-2 was not accepted. WCS-1 will be address via future addendum.
2	Courthouse		10/27/25	11/04/25	ACT	ACT-1 & 2 – Courthouse: -Specified: Armstrong Optima – 2x2 & 2x6, 9/16” tegular -Proposed: Option 1 (equal): USG Halcyon #98225 & #98348 Option 2 (VE Alt): USG Mars High-NRC #88139 & #89678	No Substitutions are allowed. We are matching existing spaces and attic stock.
3	Public Safety Center	095426	10/28/25	11/04/25	ACT	Substitution request for Linear Wood Ceiling WCS-1: ASI Architectural Wood Linear	Still reviewing. To be address via future addendum.
4	Public Safety Center		10/28/25	11/04/25	Firing Range	Substitution Request: Action Target	Still reviewing. To be address via future addendum.
5	Public Safety Center		10/28/25	11/04/25	Earthwork	Can bidders received the Civil CAD files?	Per drawing C001 Civil Notes and Legends, Civil CAD files will be provided if the attached CAD Plan Files Disclaimer form is filled out and returned.
6	Public Safety Center		10/28/25	11/04/25	JE Dunn DFH QA/QC	Opening A003 is labeled twice on the door schedule and labeled twice on the floor plans. Please review and update door schedule and floor plans so each opening has a unique opening #.	Elevator door tag to be modified to EL-01. Updated door schedule to be issued via future addendum.
7	Public Safety Center		10/28/25	11/04/25	JE Dunn DFH QA/QC	Openings STB-1A and STB-2 are scheduled as aluminum door and frames. These openings are also scheduled as 60 minute fire rated. The project manual does not have a specification for fire rated aluminum doors and frames. Please review and confirm if these openings should be aluminum or hollow metal?	To be address via future addendum. These doors will be 60 minutes and hollow metal doors.
8	Courthouse		10/28/25	11/04/25	JE Dunn DFH QA/QC	Opening 163B is missing a hardware set assignment. Please advise what hardware set this opening should be assigned to.	To be address via future addendum.
9	Courthouse		10/28/25	11/04/25	JE Dunn DFH QA/QC	Opening E110B is shown on the floor plans (6A / A201) but not listed on the door schedule. Per the floor plan notes this opening is required to receive new hardware. Please confirm what hardware set this opening should be assigned to.	To be address via future addendum.
10	Public Safety Center / Courthouse		10/28/25	11/04/25	JE Dunn DFH QA/QC	Elevations FG, G, and N indicate the vertical rail dimension is 6”. This is to avoid hardware mounting conflicts with the lite and maintain the wood door manufacturer’s warranty this dimension needs to be enlarged to 8”. Please confirm that this is acceptable.	8” is acceptable. To be address via future addendum.
11	Public Safety Center		10/28/25	11/04/25	JE Dunn DFH QA/QC	The wood door specifications make a reference to bullet resistant doors, but the door schedule does not indicate that any of the doors are to be bullet resistant. Please confirm that none of the doors are required to be bullet resistant.	Door A104B will be updated to a bullet resistant door. To be address via future addendum.
12	Public Safety Center		10/28/25	11/04/25	JE Dunn DFH QA/QC	Please confirm if the wood doors are required to be FSC Certified or not.	To be address via future addendum.
13	Courthouse		10/28/25	11/04/25	JE Dunn DFH QA/QC	The courthouse remodel specifications only list Forte as an approved wood door manufacturer. We have had quality issues with this manufacturer. The public safety center specifications list other manufacturers as approved. Please confirm the approved manufacturers in the Public Safety Center are acceptable at the Courthouse	For the Courthouse, the intent is to match existing. The material schedule on A600 calls out Masonite Architectural, Aspiro series, White Maple - Caramel to match existing. This would be preferred. Otherwise as long as the stain can match exactly, we're open to other preferred manufacturers.
14	Courthouse		10/28/25	11/04/25	JE Dunn DFH QA/QC	The courthouse specifications do not indicate what veneer is required. The specifications only say White. Please confirm that the specifications should specify White Birch doors to match the specifications for the public safety center. Please confirm if the wood doors are required to be FSC Certified or not.	Door hardware items to be address via future addendum.
15	Public Safety Center		10/28/25	11/04/25	JE Dunn DFH QA/QC	Opening A104A / Hardware Set 11.0 – The hardware set indicates that a wall stop is required, but this opening has a glass side lite that will not allow a wall stop to be used. Please confirm that a closer with a built in stop should be specified in lieu of a wall stop.	Door hardware items to be address via future addendum.
16	Public Safety Center		10/28/25	11/04/25	JE Dunn DFH QA/QC	Opening STB-2 / Hardware Set 38.0 – The hardware set specifies an electric strike, and this opening is also fire rated. Because of the fire rating, the electric strike will fail secure, so when the fire alarm is activated, this door will remain locked preventing stairwell re-entry. Please review and confirm this this is the desired function of this opening.	Door hardware items to be address via future addendum.
17	Public Safety Center		10/28/25	11/04/25	JE Dunn DFH QA/QC	Opening A101A / Hardware Set 238.0 – The system plans (E401) indicate that an automatic door operator is required, but the hardware schedule does not specify an automatic door operator. Please confirm if an automatic door operator is required.	Door hardware items to be address via future addendum.
18	Public Safety Center		10/28/25	11/04/25	JE Dunn DFH QA/QC	Opening A101B is missing from the system plans (E401). Please review and add this opening to the system plans.	To be address via future addendum.
19	Public Safety Center		10/28/25	11/04/25	JE Dunn DFH QA/QC	Opening STB-1A / Hardware Set 38.2 – The hardware schedule has specified electrified hardware that would require a card reader on the push and pull side of the door but the system plans (E401) show that a card reader is only required on the pull side of the door. Please confirm if a card reader is required on both sides of the door or just one side. If the card reader is required on one side, please confirm what the new hardware set assignment should be.	Door hardware items to be address via future addendum.
20	Courthouse		10/28/25	11/04/25	JE Dunn DFH QA/QC	Opening E110B is shown on the system plans (E401) to receive a card reader, but this opening is not listed on the door schedule. Please add opening to door schedule and confirm what hardware set this opening should be assigned to.	Door hardware items to be address via future addendum.
21	Courthouse		10/28/25	11/04/25	JE Dunn DFH QA/QC	Opening 161 / Hardware Set 15.0 – The system plans (E401) indicate that a card reader is required, but the hardware schedule does not indicate that a card reader is required. Please confirm if a card reader is required or not. If a card reader is required, please indicate what hardware set this opening should be assigned to.	Door hardware items to be address via future addendum.
22	Courthouse		10/29/25	11/04/25	Drywall	Can a wall assembly be provided for the wall infill at Restroom 160?	F4 partitions can be used. Face of gypsum to align with existing face of gypsum.
23	Courthouse	A213	10/29/25	11/04/25	Drywall	Is there any drywall framing required at SF04, A213, to prepare for new security storefront? If so please provide details.	See details 4D, 5D & 6D/A302. Intention is that glazing channels be mounted to existing framed opening and counter.

24	Courthouse		10/30/25	11/04/25	Rough Carpentry	There are no structural details for the construction of the ramp or raised platforms at the Courtroom.	There will not be structural details. Framing is noted as 2x construction at 12" O.C. with 3/4" fire treated plywood. All wood 2x and wood sheathing to be fire treated.
27	Courthouse		10/30/25		Fire Suppression	Need to verify AHJ and Owner requirements for Temporary Fire Suppression System at Courthouse.	
28	Courthouse		10/30/25		Fire Alarm	Need to verify AHJ and Owner requirements for Temporary Fire Alarm System at Courthouse.	
29	Courthouse		10/30/25		All MEPFS	Need to verify Owner requirements for second shift and weekend work for shut-downs, tie-ins, etc.	
31	Public Safety Center		10/30/25		Precast Concrete & Electrical / LV	Are electrical and low voltages boxes, conduit, etc. at precast to be surface-mounted (exposed) or recessed/embedded in precast?	
32	Public Safety Center	A210	10/30/25	11/04/25	Roofing	Can PAVER-1 (concrete paver) be simplified to an adhered walking pad?	Since the roof is ballasted, we prefer to continue using concrete pavers.
33	Public Safety Center	09 5426	10/30/25	11/04/25	Acoustic Ceilings	Section 09 5426, Suspended Wood Ceilings, 2.02.c specifies that wood grilles are needed. Sheet A600 specifies WCS-1 as linear wood ceilings. Can you confirm the item needed for WCS-1: grilles or linear?	WCS-1 is a linear wood ceiling product. This will be updated via addendum.
34	Public Safety Center	08 8430	10/30/25	11/04/25	Acoustic Ceilings	Section 09 8430, Sound-Absorbing Wall & Ceiling Units, 2.01.C specifies that Fabric-Covered Acoustical Wall Panels (SAWP) are needed. I wasn't able to find this on the material schedule or interior elevations. Can you confirm if/where the SAWP is needed? If SAWP is needed, can you confirm the item needed?	There are no fabric covered acoustical wall panels in the project. This product will be removed via addendum. .
35	Public Safety Center	09 5423	10/30/25	11/04/25	Acoustic Ceilings	Section 09 5423, Linear Metal Ceilings, specifies that MCT is needed. I wasn't able to find this item on the material schedule. Would USG Ceilings Plus Planx Universal be an acceptable item for the MCT?	This product was missing on A600 and should be listed as Armstrong METALWORKS MESH LAY IN AND TEGULAR -CASCADES 6139AM. This will be added via addendum. USG Ceilings Plus Planx Universal is not an approved equal.
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ADDENDUM

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SPECIFICATIONS

1. SECTION 23 8200 – CONVECTION HEATING AND COOLING UNITS
 - o Paragraph 2.02.B: Add paragraph for electric coils.
 - o Add paragraph 2.01 for Hydronic Convectors

APPROVED EQUALS

The following products have been approved for use on this project. All approved products must still meet all product specifications as listed in the product specification section.

Section	Material ID or description	Basis of Design	Approved Equal
23 7413 Packaged Rooftop Air Condition Unit	RTU-2	AAON	Greenheck

DRAWINGS

1. M101 – FIRST FLOOR PLAN PLUMBING DEMOLITION
 - o Keynotes for the page: Demolition Keynote added – “CUT INTO CONDENSATE PIPE, PREPARE FOR NEW CONNECTION”
 - o Drawing 2/M101: Areas marked for new condensate pipe connections.
2. M103 – FIRST FLOOR PLAN MECH PIPE DEMOLITION
 - o Drawing 2/M103: Areas marked for new connections into existing mechanical piping.
3. M104 – FIRST FLOOR PLAN MECH HVAC DEMOLITION
 - o Keynotes for the page: Demolition Keynote added – “Prepare existing duct work for new duct connection”.
 - o Drawing 2/M104: Areas marked for new connections into existing ductwork.
4. M105 – SECOND FLOOR PLAN MECH HVAC DEMOLITION
 - o Keynotes for the page: Removed Keynotes 2 & 3.
 - o Drawing 1/M105: Omit (2) instances of keynote 3 and instance of keynote 2 on bathroom exhaust fans.

5. M301 – FIRST FLOOR PLAN MECH PIPE
 - Drawing 1/M301:
 - Provide electric duct heaters EDH 5-9 and EDH 5-10
 - Drawing 2/M301:
 - Provide CV-1 in lieu of CUH-5 in Storage 162A
 - Provide wall-mounted AC indoor unit in lieu of ceiling mounted AC units in AV Storage 162B.
 - Provide condensate piping for new and relocated heat pumps around the courtroom.
 - Provide the additional variable air volume units VAV-5-9 and VAV-5-10.
6. M302 – HYDRONIC SYSTEM SCHEMATIC
 - General Page information:
 - Page is numbered to M302.
 - Drawing 1/M302:
 - Elements CV-1, VAV-5-9, and VAV-5-10 are added to the system schematic.
7. M401 – FIRST FLOOR PLAN HVAC
 - Keynotes for the Page:
 - Replace Keynote 1 with: 6" UP TO GOOSENECK ON ROOF.
 - Drawing 2/M401:
 - Adjusted airflows for rooms: 150, 176, 177, and E163
 - Elements CV-1, AC-1a, VAV-5-10 and VAV-5-9 are shown.
 - Provide additional diffuser for VAV-2-1(E) in Court Lobby 101F.
 - Added return air terminals to rooms: 141, 142, 143, 152, 150, 154, 155, and 170.
 - Reception corridor (room 150) gets supplied with 750 CFM.
 - Added an area for a callout view to drawing 2/M402.
 - Removed the additional exhaust terminal in rooms 107 and 108.
 - Removed supply terminal in room 172.
 - Adjusted supply terminal in room 175 to 100 CFM.
8. M402 – FIRST FLOOR PLAN HVAC
 - Alternate Bid 3 Schedule: 238000 – ELECTRIC DUCT HEATER SCHEDULE:
 - Modify as shown on attached sheet.
 - 2/M402:
 - Drawing 2/M402: Added callout view for the area in drawing 2/M401.
 - Drawing 1/M402:
 - Provide return grilles as shown.
 - Provide supply grilles in corridor.
 - Provide duct heaters EDH 5-9 and EDH 5-10 for corridor.
9. M403 – SECOND FLOOR PLAN HVAC
 - Drawing 1/M403:
 - Clarification for airflows added to drawing.
 - Return air terminals are shown for the following rooms: 230-2, 246, 247, 231, 212, 211, and 213.
10. M404 – ROOF PLAN
 - Drawing 1/M404:
 - Omit RS-1 scuppers.
11. M502 – DETAILS
 - Detail 6/M502:
 - Single pump in lieu of duplex.
 - Detail 15/M502:
 - Omit detail for Water Outlet Box – Ice Maker.
 - Detail 16/M502:
 - Provide sound boot on all plenum return grilles in office and courtroom.

12. M600 – SCHEDULES

- Schedule 233700 – AIR TERMINAL SCHEDULE:
 - Added air Terminal Elements R-2, R-3, R-4.
 - Modified Schedule notes for air terminal elements.
- Schedule 2380000 – CONVECTOR – HYDRONIC:
 - Added schedule.
- Schedule 238000 – Split System AC:
 - Modified Schedule.
- Schedule 233000 – HW REHEAT VAV SCHEDULE:
 - Added elements VAV-5-9 and VAV-5-10.
- Omit Schedules: Cabinet Unite Heater Schedule; Storm Drainage Schedule.

END OF ADDENDUM

KEYNOTE LEGEND

- REMOVE FIXTURE, CUT AND CAP OFF ASSOCIATED PIPE CONNECTIONS.
- CUT INTO EXISTING WATER SUPPLY PIPE AND PREPARE FOR NEW CONNECTION.
- CUT AND REMOVE WATER SUPPLY PIPE MARKED FOR REMOVAL. CAP OFF EXISTING PIPE NOT TO BE REMOVED.
- RE-LOCATED EXISTING WATER HEATER. NEW LOCATION IS MARKED FOR REMODEL.
- EXISTING COLD WATER SUPPLY PIPING FOR WH-1 INSTALL.
- PREPARE FOR NEW VENT AND HOT WATER CONNECTIONS. CAP OFF ANY PIPING GOING INTO BATHROOM MARKED FOR DEMO.
- CUT AND REMOVE WASTE PIPE MARKED FOR REMOVAL. CAP EXISTING WASTE PIPE TO REMAIN.
- CUT INTO EXISTING VENT PIPE AND PREPARE FOR NEW CONNECTIONS.
- CUT INTO CONDENSATE PIPE. PREPARE FOR NEW CONNECTION.

LINE TYPE LEGEND

---	EXISTING
---	NEW
- - - -	REMOVE
---	HIDDEN
---	MATCHLINE

PIPING VALVE & ACCESSORY LEGEND

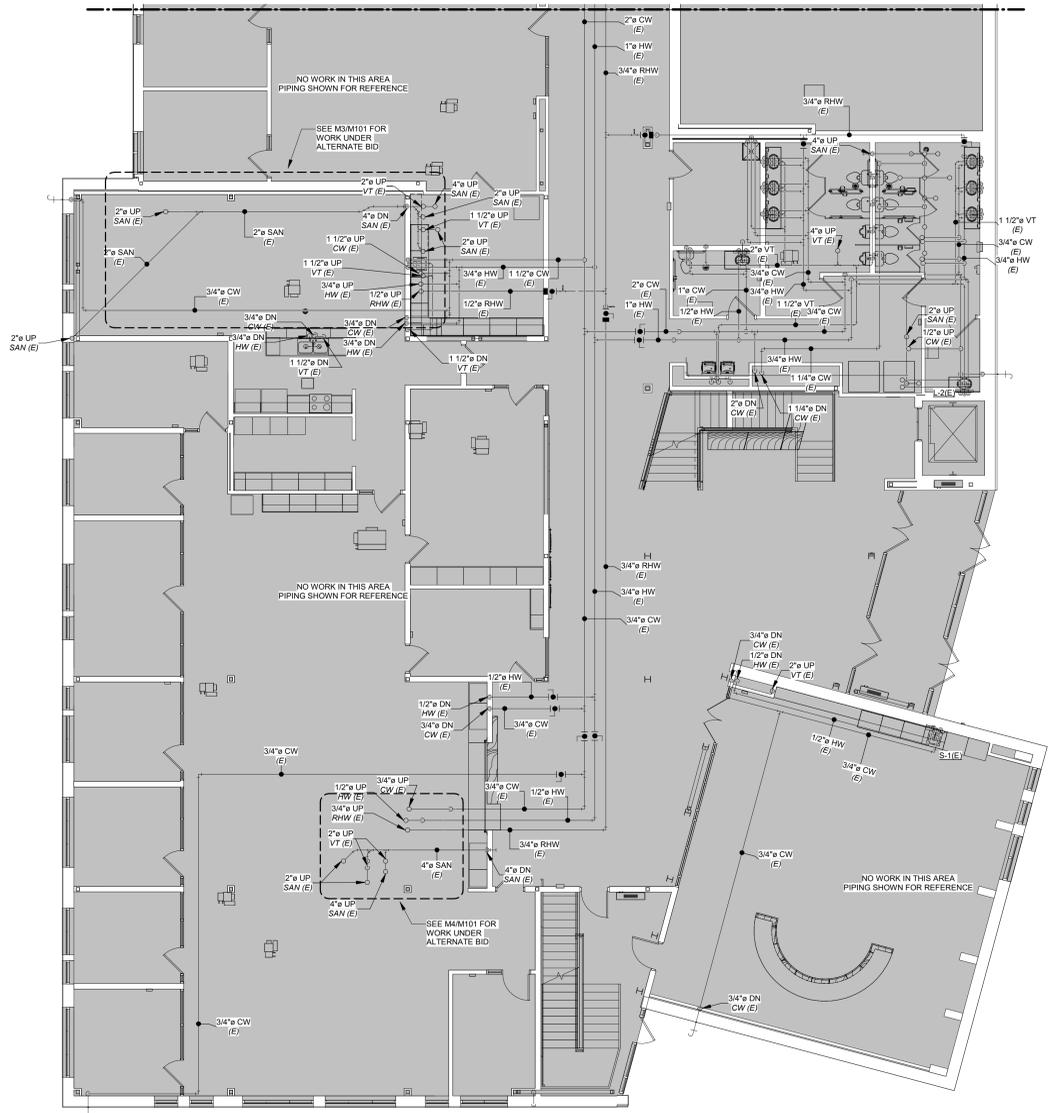
	BALL VALVE
	BALL VALVE INDICATOR
	BUTTERFLY VALVE
	GATE VALVE
	VENTURI FLOW MEASURING DEVICE
	CHECK VALVE
	2-WAY HYDRONIC CONTROL VALVE
	2-WAY DOMESTIC CONTROL VALVE
	3-WAY CONTROL VALVE
	DRAIN VALVE
	STRAINER
	MANUAL AIR VENT
	AUTO AIR VENT
	TEMPERATURE GAUGE
	PRESSURE GAUGE
	SENSOR
	CIRCUIT SOLVER
	UNION

PLUMBING FIXTURE CONNECTIONS

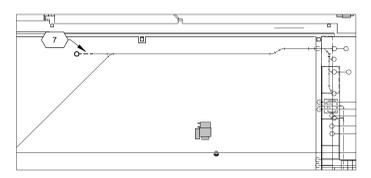
FIXTURE	WASTE	VENT	SUPPLY
WATER CLOSETS (TANK)	3"	2"	1/2"
URINALS	2"	1-1/2"	3/4"
LAVATORIES (SINGLE)	1-1/2"	1-1/2"	1/2"
SINKS	2"	1-1/2"	1/2"
HOSE BIBBS/WALL FAUCETS	N/A	N/A	3/4"
ELECTRIC WATER COOLERS	1-1/2"	1-1/2"	1/2"

PIPING LEGEND

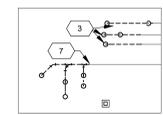
---	ABOVEGROUND WASTE
---	UNDERGROUND WASTE
---	VENT
---	RAIN CONDUCTOR
---	DOMESTIC COLD WATER
---	DOMESTIC HOT WATER
---	RECIRC HOT WATER
---	RECIRC HOT WATER
---	HOT WATER HTG SUPPLY
---	HOT WATER HTG RETURN
---	HOT WATER HTG RETURN
---	HEAT PUMP SUPPLY
---	HEAT PUMP RETURN
---	HEAT PUMP RETURN
---	CONDENSATE DRAIN
---	REFRIGERANT LINE SET
---	GEO THERMAL WELL WATER SUPPLY
---	GEO THERMAL WELL WATER RETURN
---	CONNECT TO EXISTING



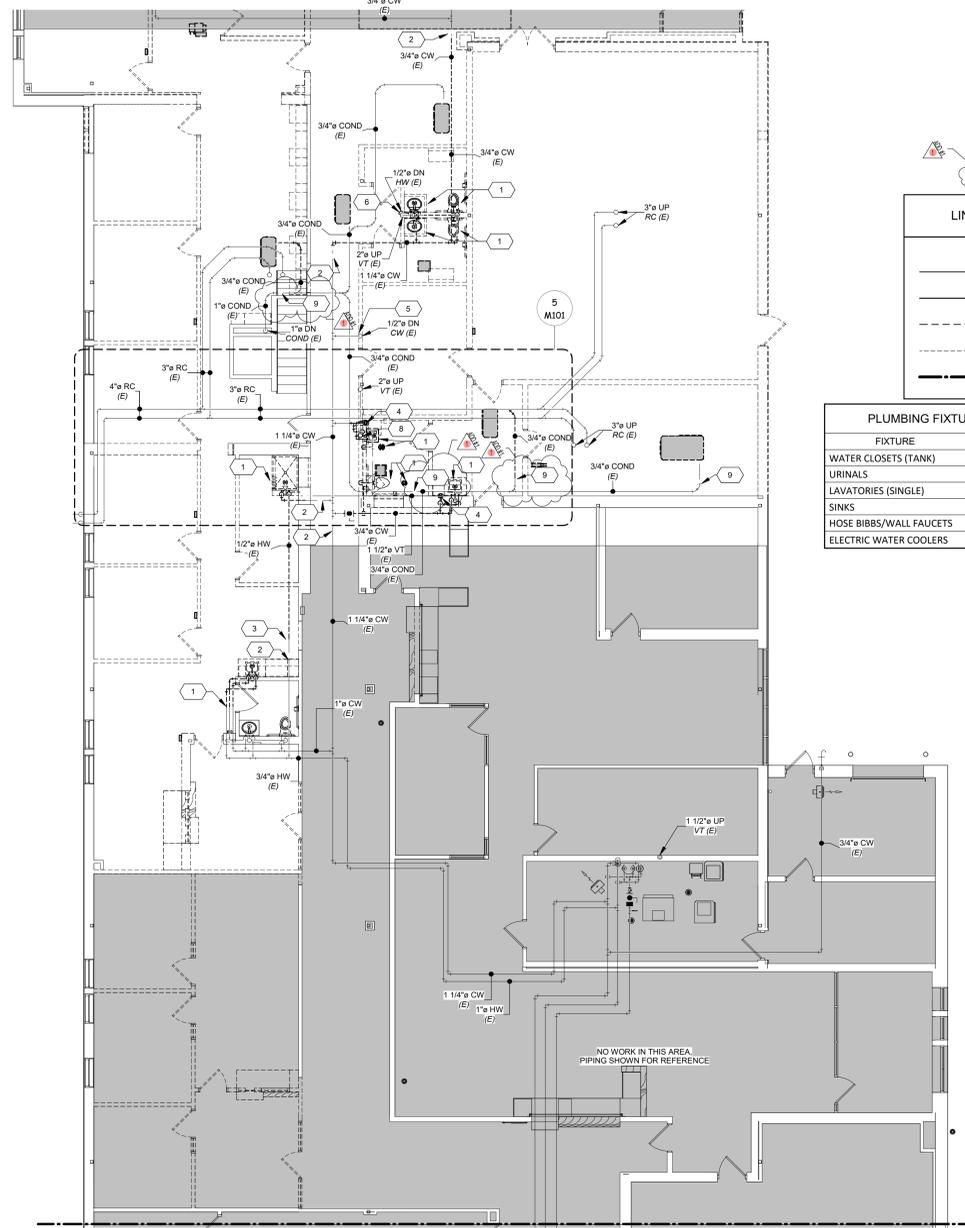
1 FIRST FLOOR PLAN - AREA A - PLUMBING DEMOLITION - BASE BID
1/8" = 1'-0"



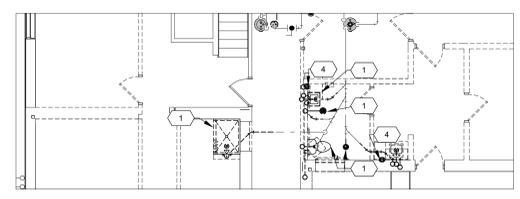
3 FIRST FLOOR PLAN - AREA A1 - PLUMBING DEMOLITION - ALTERNATE BID 1
1/8" = 1'-0"



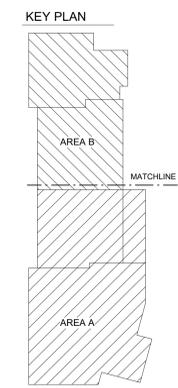
4 FIRST FLOOR PLAN - AREA A2 - PLUMBING DEMOLITION - ALTERNATE BID 1
1/8" = 1'-0"



2 FIRST FLOOR PLAN - AREA B - PLUMBING DEMOLITION - BASE BID
1/8" = 1'-0"



5 FIRST FLOOR PLAN - AREA B - BELOW GRADE DEMOLITION PLAN - BASE BID
1/8" = 1'-0"



KEYNOTE LEGEND

- CUT AND REMOVE EXISTING HYDRONIC SUPPLY AND RETURN PIPING. CAP EXISTING PIPE NOT MARKED FOR REMOVAL.
- CUT INTO EXISTING HYDRONIC SUPPLY AND RETURN PIPING. PREPARE FOR NEW CONNECTIONS.
- CUT AND CAP OFF EXISTING CONNECTIONS. PREPARE FOR HEAT PUMP RE-LOCATION.
- CUT EXISTING CONNECTIONS PREPARE FOR HEAT PUMP FOR NEW LOCATION.
- CUT AND REMOVE PIPING CONNECTING TO VAV TERMINAL AND ASSOCIATED CONTROLS. PREPARE VAV TERMINAL FOR RE-LOCATION.
- REMOVE AND PREPARE CABINET UNIT HEATER FOR RE-LOCATION. CAP OFF EXISTING CONNECTIONS.
- CUT AND REMOVE PIPE CONNECTIONS TO UNIT HEATER. CAP OFF EXISTING PIPING. PREPARE TO RE-LOCATE EXISTING UNIT HEATER.
- CUT AND CAP OFF EXISTING HYDRONIC CONNECTIONS. PREPARE TO MOVE EXISTING DUCT HEATER.

PIPING VALVE & ACCESSORY LEGEND

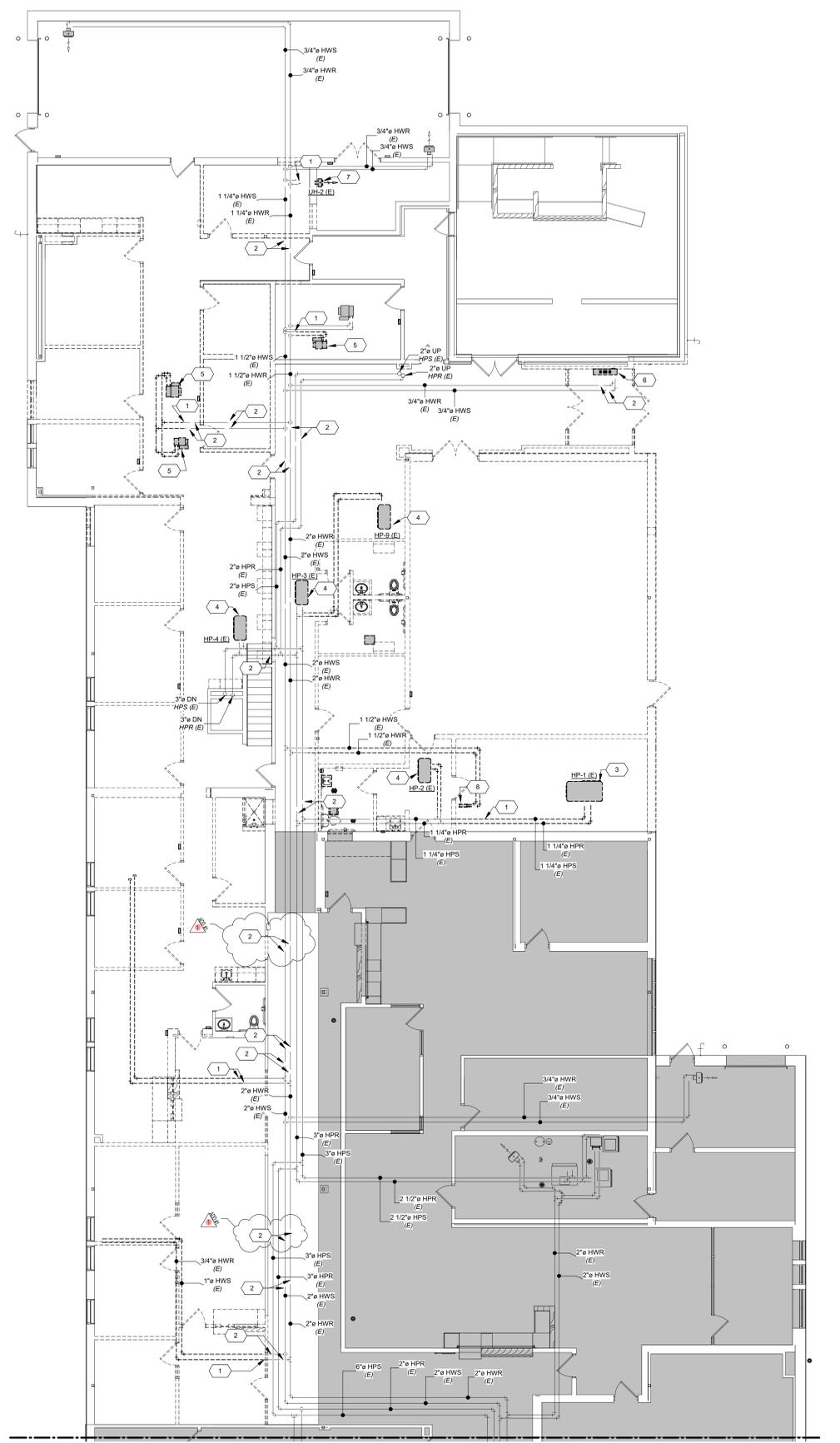
	BALL VALVE
	BALL VALVE INDICATOR
	BUTTERFLY VALVE
	GATE VALVE
	VENTURI FLOW MEASURING DEVICE
	CHECK VALVE
	2-WAY HYDRONIC CONTROL VALVE
	2-WAY DOMESTIC CONTROL VALVE
	3-WAY CONTROL VALVE
	DRAIN VALVE
	STRAINER
	MANUAL AIR VENT
	AUTO AIR VENT
	TEMPERATURE GAUGE
	PRESSURE GAUGE
	SENSOR
	CIRCUIT SOLVER
	UNION

PIPING LEGEND

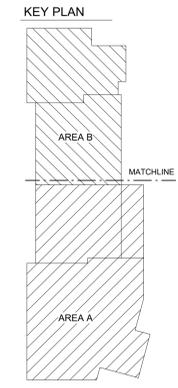
	ABOVEGROUND WASTE
	UNDERGROUND WASTE
	VENT
	RAIN CONDUCTOR
	DOMESTIC COLD WATER
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER
	RECIRC HOT WATER
	RECIRC HOT WATER
	HOT WATER HTG SUPPLY
	HOT WATER HTG RETURN
	HOT WATER HTG RETURN
	HEAT PUMP SUPPLY
	HEAT PUMP RETURN
	HEAT PUMP RETURN
	CONDENSATE DRAIN
	REFRIGERANT LINE SET
	GEOTHERMAL WELL WATER SUPPLY
	GEOTHERMAL WELL WATER RETURN
	CONNECT TO EXISTING

LINE TYPE LEGEND

	EXISTING
	NEW
	REMOVE
	HIDDEN
	MATCHLINE



2 FIRST FLOOR PLAN - AREA B - MECHANICAL PIPING DEMOLITION - BASE BID
M103 1/8" = 1'-0"



KEYNOTE LEGEND

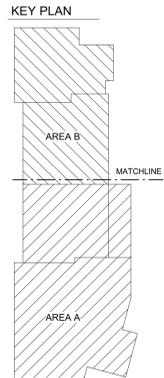
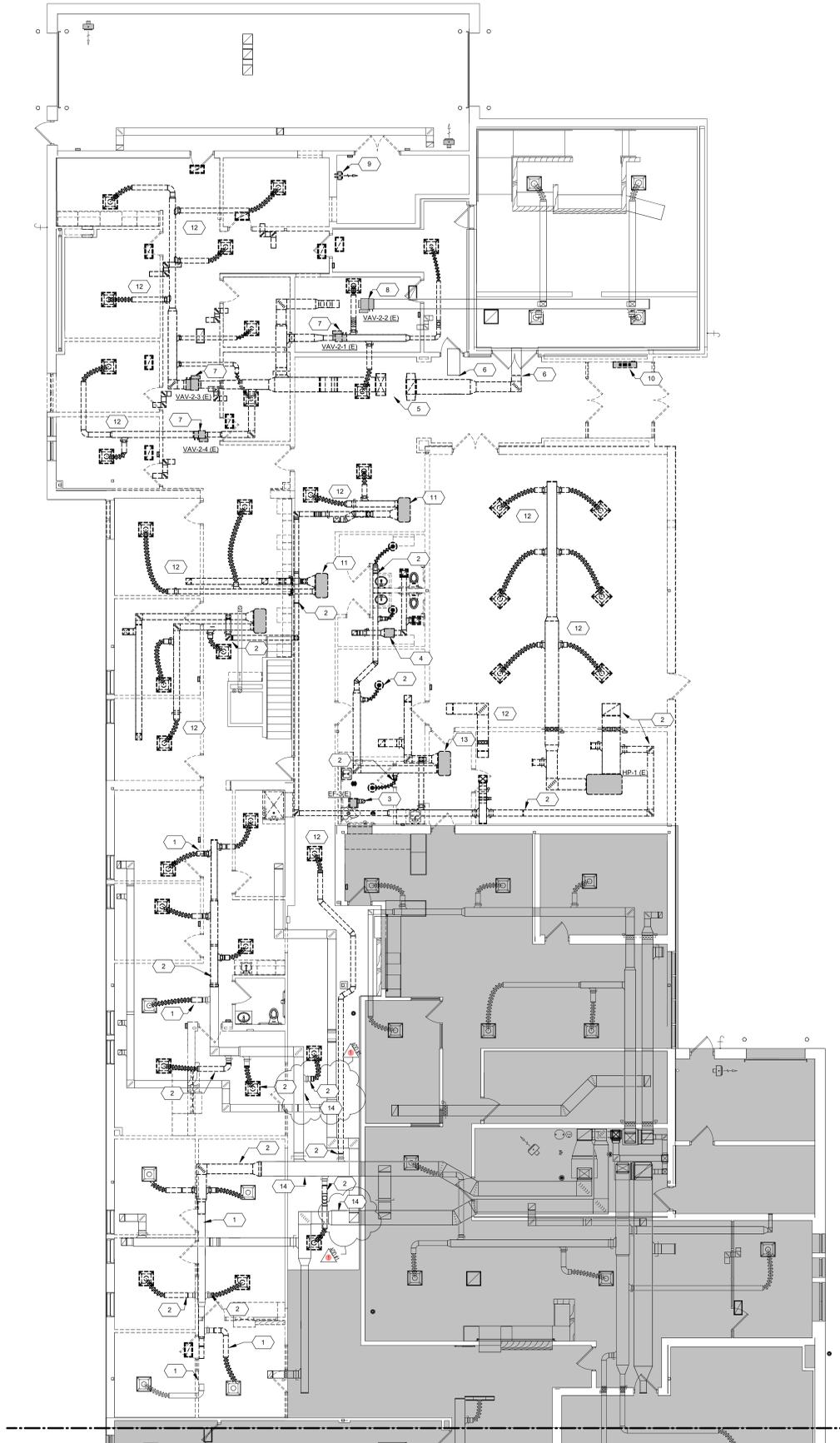
- CUT AND PREPARE EXISTING DUCTWORK FOR VAV INSTALLATION.
- CUT AND REMOVE DUCT WORK MARKED FOR REMOVAL. CAP OFF CONNECTION TO EXISTING DUCT.
- PREPARE EXHAUST FAN FOR RELOCATION. REMOVE DUCT WORK AND EXISTING GOOSE NECK ABOVE ROOF. G.C. TO PATCH ROOF PENETRATIONS.
- REMOVE EXHAUST FAN AND ASSOCIATED DUCTING. G.C. TO PROVIDE INSULATED CAP OVER DUCT CURB ON THE ROOF.
- REMOVE ALL DUCT WORK MARKED FOR REMOVAL. COORDINATE WITH G.C. OF ROOF PENETRATIONS AND INSTALLATION OF NEW ROOF TOP AIR HANDLER.
- CUT AND REMOVE EXISTING DUCT MARKED FOR REMOVAL. PREPARE FOR NEW DUCT CONNECTION.
- REMOVE ASSOCIATED DUCTING FROM VAV. PREPARE VAV FOR RELOCATION.
- CUT AND REMOVE DUCTING FEEDING EXISTING VAV MARKED FOR REMOVAL. PREPARE VAV INLET FOR NEW DUCT CONNECTION.
- CUT AND REMOVE PIPE CONNECTIONS TO UNIT HEATER. CAP OFF EXISTING PIPING. PREPARE TO RE-LOCATE EXISTING UNIT HEATER.
- REMOVE AND PREPARE CABINET UNIT HEATER FOR RE-LOCATION. CAP OFF EXISTING CONNECTIONS.
- CUT AND CAP OFF EXISTING CONNECTIONS. PREPARE FOR HEAT PUMP RE-LOCATION.
- COMPLETELY REMOVE ALL DUCTWORK, DIFFUSERS, AND GRILLES MARKED FOR REMOVAL.
- CUT AND CAP EXISTING CONNECTIONS TO EXISTING HEAT PUMP. PREPARE HEAT PUMP FOR RE-LOCATION. REMOVE ASSOCIATED CONTROLS.
- PREPARE EXISTING DUCT WORK FOR NEW DUCT CONNECTION.

HVAC LEGEND

- POSITIVE PRESSURE DUCT
- NEGATIVE PRESSURE DUCT
- MANUAL DAMPER
- MOTORIZED DAMPER
- FIRE DAMPER
- COMB. SMOKE/FIRE DAMPER
- BACK DRAFT DAMPER
- ACCESS DOOR
- ELBOW WITH TURNING VANES
- HI-EFFICIENCY TAKEOFF (W/ VOLUME DAMPER)
- FLEXIBLE DUCT
- CONNECT TO EXISTING
- AIR TERMINAL TAG
- AIR TERMINAL MARK
- AIR TERMINAL CFM
- AIR TERMINAL SIZE

LINE TYPE LEGEND

- EXISTING
- NEW
- REMOVE
- HIDDEN
- MATCHLINE



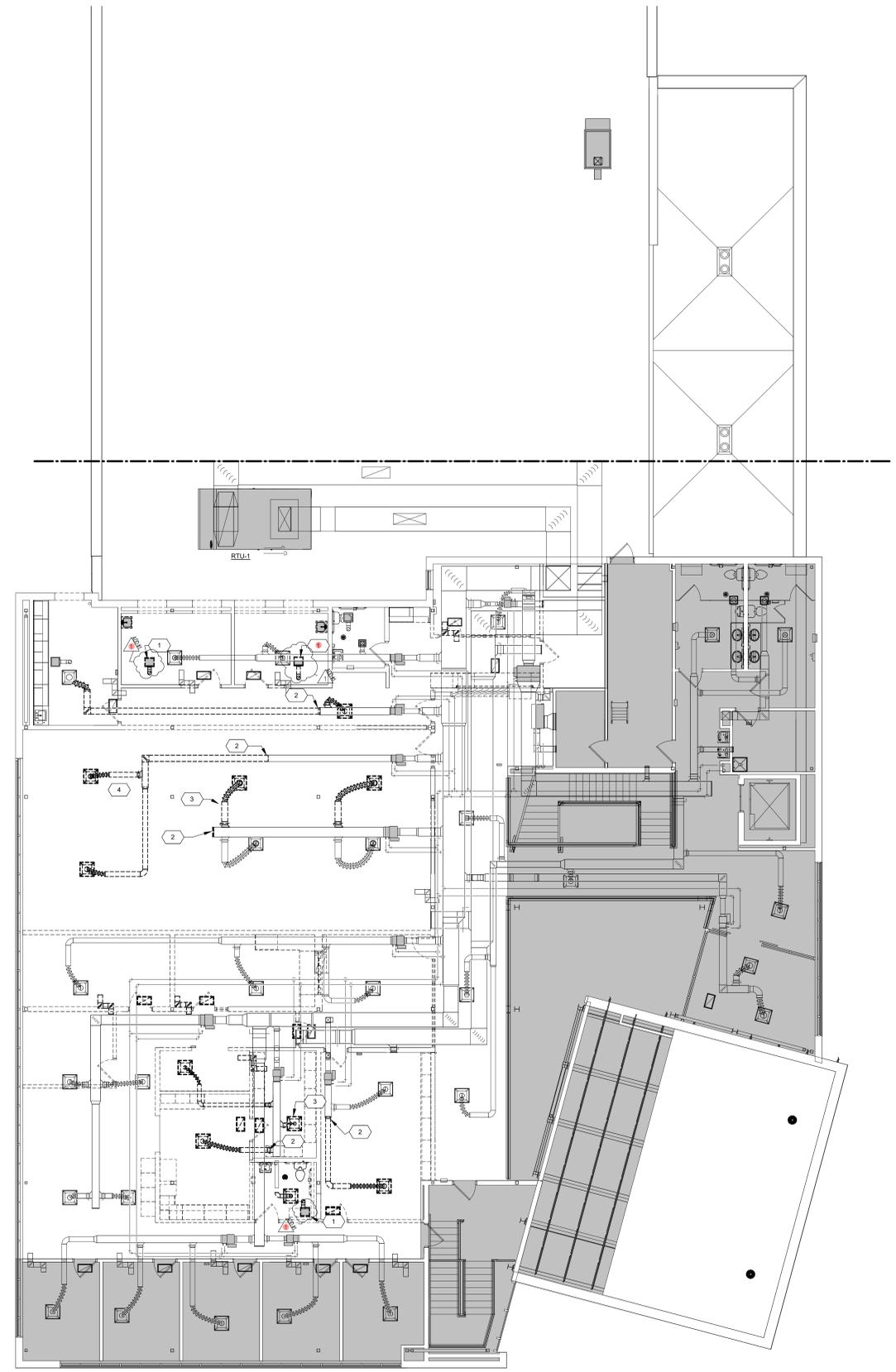
2 FIRST FLOOR PLAN - AREA B - MECHANICAL HVAC DEMOLITION - BASE BID **N**
M104 1/8" = 1'-0"

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE
1	ADDENDUM #1	11/04/25

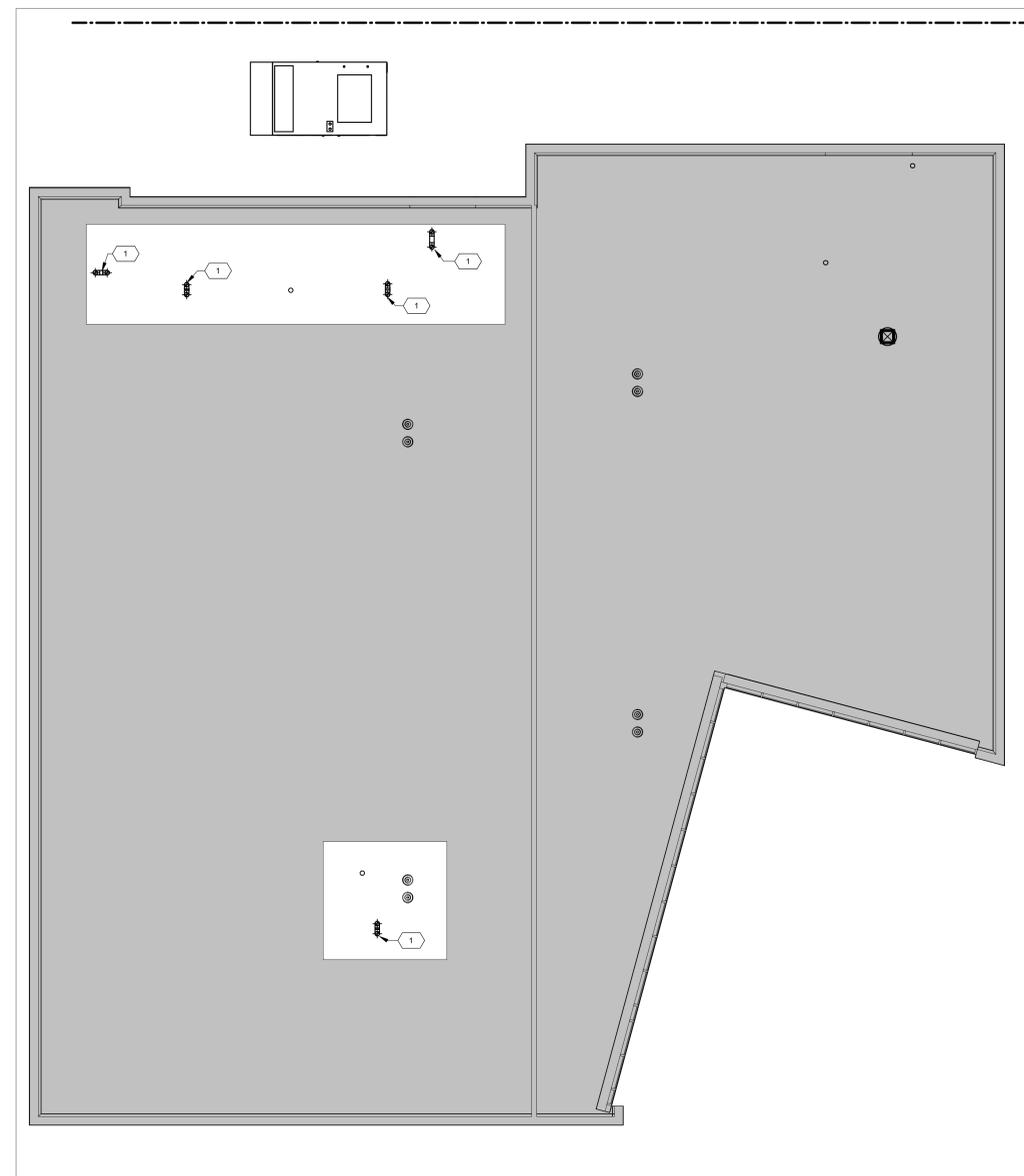
KEYNOTE LEGEND	
1	REMOVE EXHAUST FAN AND ASSOCIATED DUCTING, G.C. TO PROVIDE INSULATED CAP OVER DUCT CURB ON THE ROOF.
2	CUT AND REMOVE DUCT MARKED FOR DEMOLITION. PREPARE EXISTING DUCT FOR NEW DUCT CONNECTION.
3	CUT AND REMOVE DUCT WORK MARKED FOR REMOVAL. CAP OFF CONNECTION TO EXISTING DUCT.
4	COMPLETELY REMOVE ALL DUCTWORK, DIFFUSERS, AND GRILLES MARKED FOR REMOVAL.

LINE TYPE LEGEND	
	EXISTING
	NEW
	REMOVE
	HIDDEN
	MATCHLINE

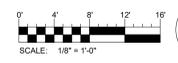
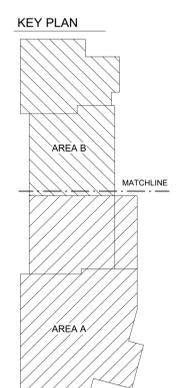
HVAC LEGEND	
	POSITIVE PRESSURE DUCT
	NEGATIVE PRESSURE DUCT
	MANUAL DAMPER
	MOTORIZED DAMPER
	FIRE DAMPER
	COMB. SMOKE/FIRE DAMPER
	BACK DRAFT DAMPER
	ACCESS DOOR
	ELBOW WITH TURNING VANES
	HI-EFFICIENCY TAKEOFF (W/ VOLUME DAMPER)
	FLEXIBLE DUCT
	CONNECT TO EXISTING
	AIR TERMINAL TAG
	AIR TERMINAL MARK
	AIR TERMINAL CFM
	AIR TERMINAL SIZE



1
M105
SECOND FLOOR PLAN - AREA A - MECHANICAL HVAC DEMOLITION - ALTERNATE BID 1
1/8" = 1'-0"



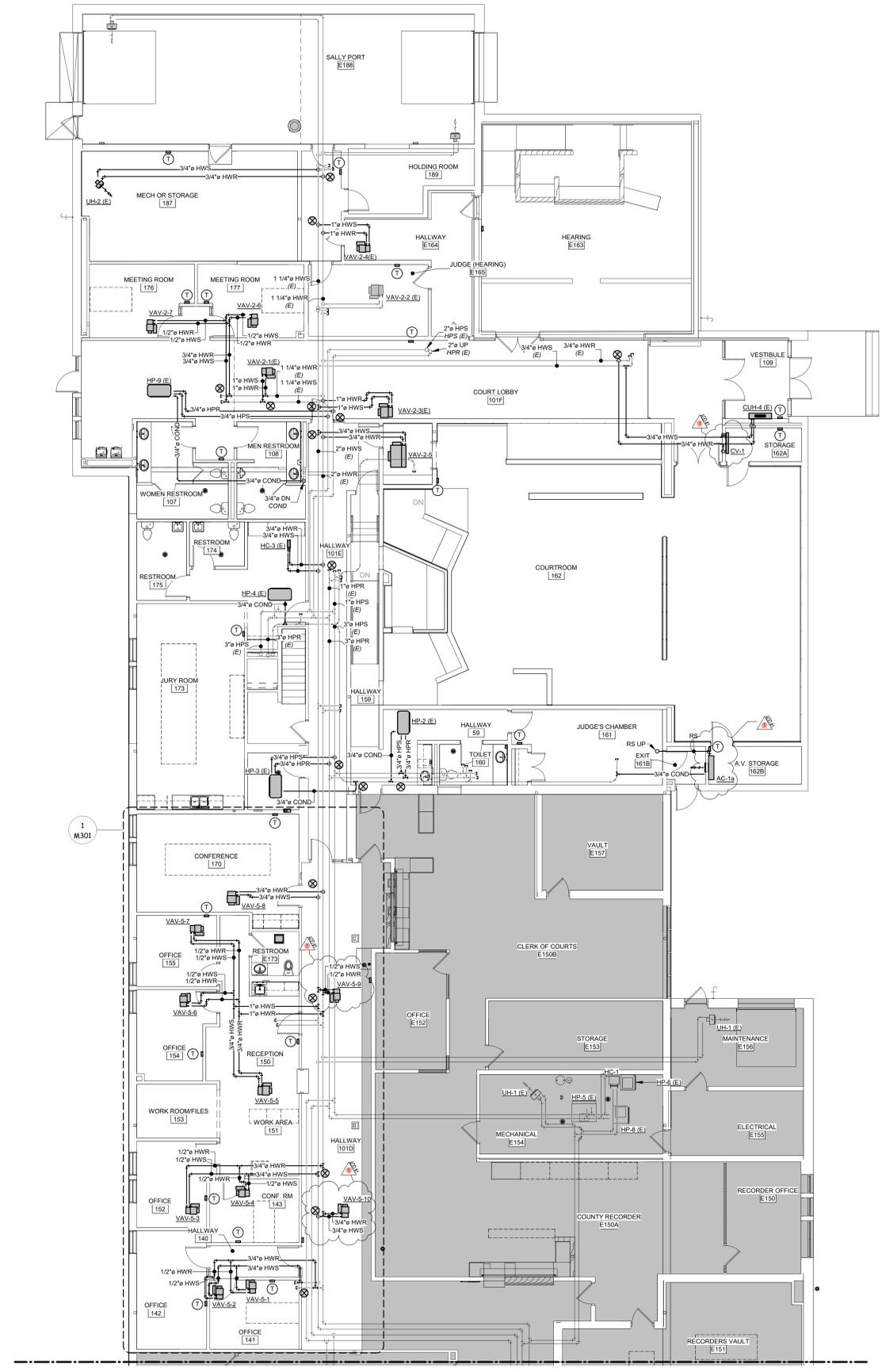
2
M105
ROOF PLAN - AREA A - HVAC DEMOLITION PLAN - ALTERNATE BID 1
1/8" = 1'-0"



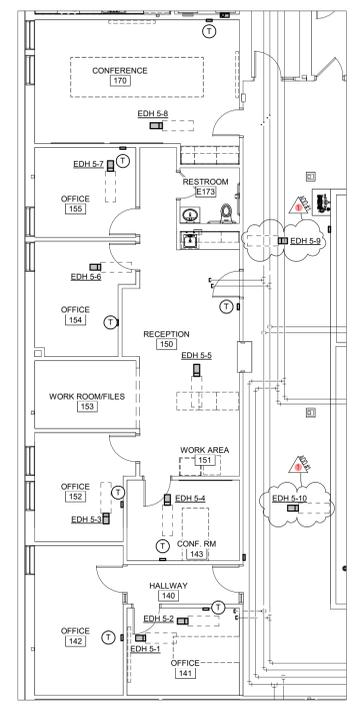
LINE TYPE LEGEND	
—	EXISTING
—	NEW
- - -	REMOVE
- - -	HIDDEN
—	MATCHLINE

PIPING VALVE & ACCESSORY LEGEND	
	BALL VALVE
	BALL VALVE INDICATOR
	BUTTERFLY VALVE
	GATE VALVE
	VENTURI FLOW MEASURING DEVICE
	CHECK VALVE
	2-WAY HYDRONIC CONTROL VALVE
	2-WAY DOMESTIC CONTROL VALVE
	3-WAY CONTROL VALVE
	DRAIN VALVE
	STRAINER
	MANUAL AIR VENT
	AUTO AIR VENT
	TEMPERATURE GAUGE
	PRESSURE GAUGE
	SENSOR
	CIRCUIT SOLVER
	UNION

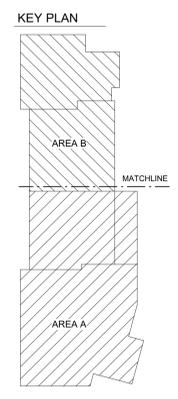
PIPING LEGEND	
—	ABOVEGROUND WASTE
—UGW—	UNDERGROUND WASTE
—	VENT
—RC—	RAIN CONDUCTOR
—CW—	DOMESTIC COLD WATER
—	DOMESTIC COLD WATER
—HW—	DOMESTIC HOT WATER
—	DOMESTIC HOT WATER
—RHW—	RECIRC HOT WATER
—	RECIRC HOT WATER
—HWS—	HOT WATER HTG SUPPLY
—HWR—	HOT WATER HTG RETURN
—HWR—	HOT WATER HTG RETURN
—	HEAT PUMP SUPPLY
—	HEAT PUMP RETURN
—HPR—	HEAT PUMP RETURN
—COND—	CONDENSATE DRAIN
—RS—	REFRIGERANT LINE SET
—GEOTHERM WS—	GEOTHERMAL WELL WATER SUPPLY
—GEOTHERM WR—	GEOTHERMAL WELL WATER RETURN
	CONNECT TO EXISTING



2 FIRST FLOOR PLAN - AREA B - MECHANICAL PIPING - BASE BID
1/8" = 1'-0"



1 FIRST FLOOR PLAN - AREA B - MECHANICAL PIPING - ALTERNATE BID 2
1/8" = 1'-0"



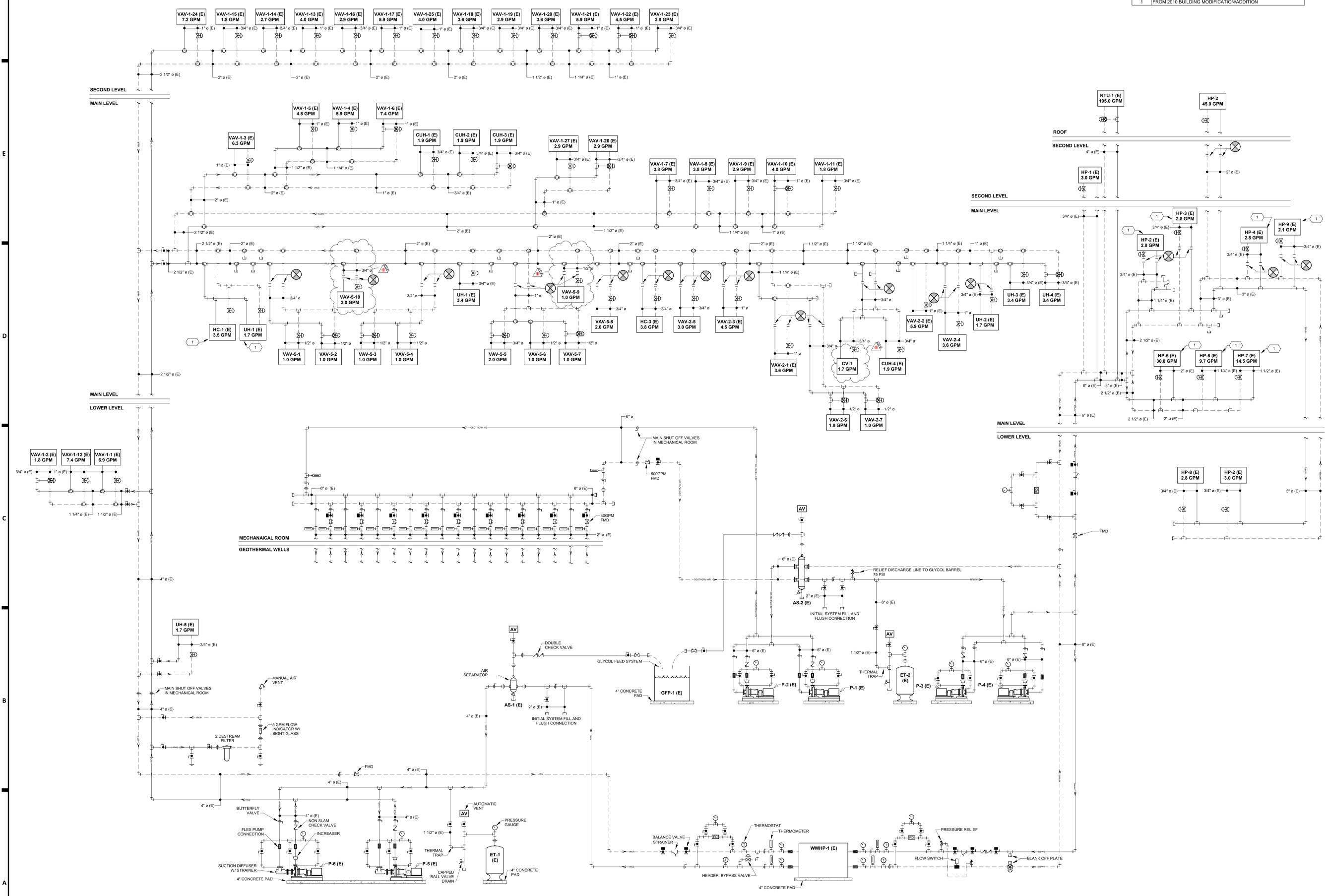
KEYNOTE LEGEND
1 FROM 2010 BUILDING MODIFICATION/ADDITION



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Bismarck, ND 58501
phone: (701) 255-1617
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NO.	DESCRIPTION	DATE
1	ADDENDUM #1	11/04/25



1 M302 HYDRONIC SYSTEM SCHEMATIC

DUNN COUNTY
COURTHOUSE REMODEL
MANNING, ND

DATE
10/21/2025
PHASE
CONSTRUCTION DOCUMENTS
PROJECT
24146

SHEET
M302
HYDRONIC SYSTEM SCHEMATIC



Prairie Engineering P.C.
Professional Consulting Engineers
Manning, ND 58501 | 701.852.6363

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KEYNOTE LEGEND

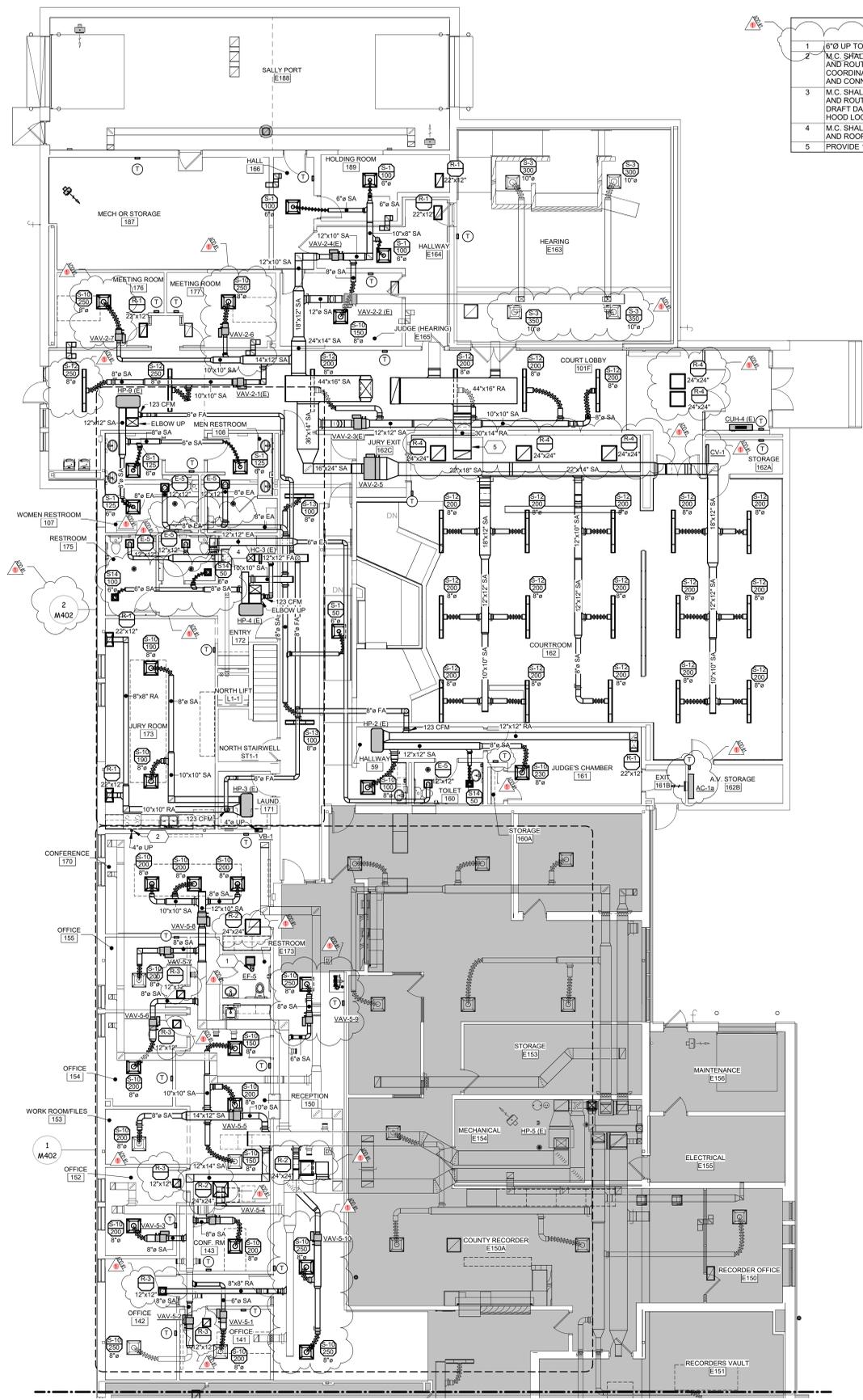
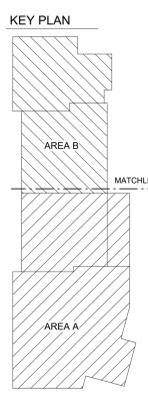
1	6"Ø UP TO GOOSENECK ON ROOF
2	M.C. SHALL CONNECT TO RANGE HOOD PROVIDED BY OTHERS AND ROUTE EXHAUST DUCT OUT THE ROOF WITH GOOSENECK. COORDINATE WITH G.C. ON FINAL HOOD LOCATION, DIMENSIONS AND CONNECTION SIZES.
3	M.C. SHALL CONNECT TO RANGE HOOD PROVIDED BY OTHERS AND ROUTE EXHAUST DUCT OUT NEAREST WALL WITH BACK DRAFT DAMPER AND WALL CAP. COORDINATE WITH G.C. ON FINAL HOOD LOCATION, DIMENSIONS AND CONNECTION SIZES.
4	M.C. SHALL COORDINATE WITH G.C. FOR FINAL ERU LOCATION AND ROOF PENETRATIONS.
5	PROVIDE 1/2" LINER IN DUCT BRANCH FOR SOUND ATTENUATION.

HVAC LEGEND

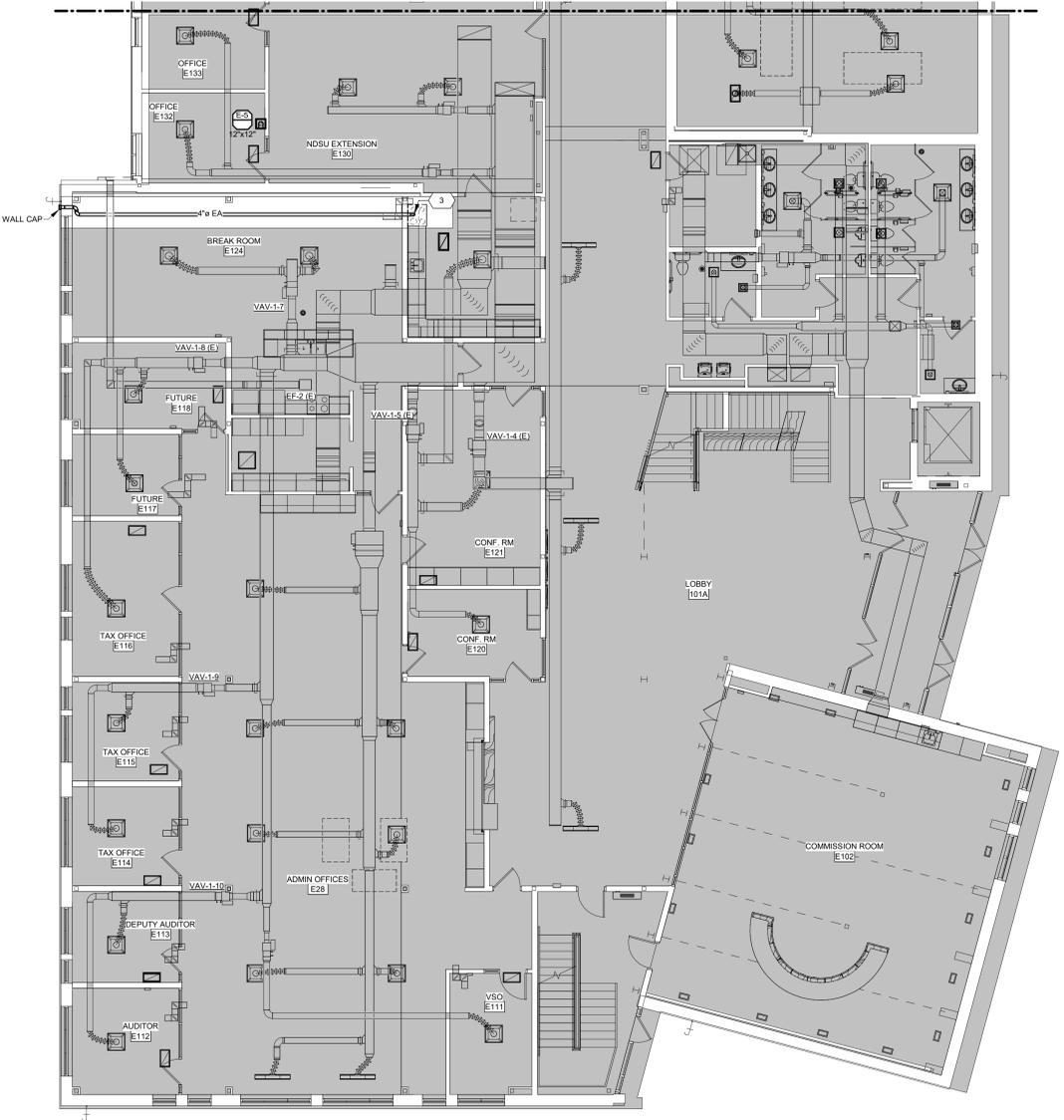
	POSITIVE PRESSURE DUCT
	NEGATIVE PRESSURE DUCT
	MANUAL DAMPER
	MOTORIZED DAMPER
	FIRE DAMPER
	COMB. SMOKE/FIRE DAMPER
	BACK DRAFT DAMPER
	ACCESS DOOR
	ELBOW WITH TURNING VANES
	HI-EFFICIENCY TAKEOFF (W/ VOLUME DAMPER)
	FLEXIBLE DUCT
	CONNECT TO EXISTING
	AIR TERMINAL TAG
	AIR TERMINAL MARK
	AIR TERMINAL CFM
	AIR TERMINAL SIZE

LINE TYPE LEGEND

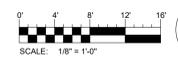
	EXISTING
	NEW
	REMOVE
	HIDDEN
	MATCHLINE



2 FIRST FLOOR PLAN - AREA B - HVAC - BASE BID
1/8" = 1'-0"



1 FIRST FLOOR PLAN - AREA A - HVAC - BASE BID
1/8" = 1'-0"



238000 - ELECTRIC DUCT HEATER SCHEDULE

NOTES:

1. PROVIDE MEANS TO SECURE HEATER INDEPENDENT OF DUCT...
2. MODULATING CONTROL WITH OVERHEAT PROTECTION

MARK	MANUFACTURER	MODEL	DIMENSIONS		AIRFLOW	VELOCITY	ENTERING AIR TEMP (EAT)	LEAVING AIR TEMP (LAT)	CAPACITY	ELECTRICAL			NOTES
			HEIGHT	WIDTH						VOLT	PH	HZ	
EDH 5-1	NEPTRONIC	DF C-01H	8"	8"	200 CFM	450 FPM	60 °F	90 °F	2 kW	208 V	3	60 Hz	1, 2
EDH 5-2	NEPTRONIC	DF C-01H	8"	8"	250 CFM	560 FPM	60 °F	95 °F	3 kW	208 V	3	60 Hz	1, 2
EDH 5-3	NEPTRONIC	DF C-01H	8"	8"	200 CFM	450 FPM	60 °F	100 °F	3 kW	208 V	3	60 Hz	1, 2
EDH 5-4	NEPTRONIC	DF C-01H	8"	8"	200 CFM	450 FPM	60 °F	90 °F	2 kW	208 V	3	60 Hz	1, 2
EDH 5-5	NEPTRONIC	DF C-01H	12"	12"	750 CFM	750 FPM	60 °F	88 °F	8 kW	208 V	3	60 Hz	1, 2
EDH 5-6	NEPTRONIC	DF C-01H	8"	8"	200 CFM	450 FPM	60 °F	100 °F	3 kW	208 V	3	60 Hz	1, 2
EDH 5-7	NEPTRONIC	DF C-01H	8"	8"	200 CFM	450 FPM	60 °F	100 °F	3 kW	208 V	3	60 Hz	1, 2
EDH 5-8	NEPTRONIC	DF C-01H	10"	12"	600 CFM	720 FPM	60 °F	91 °F	6 kW	208 V	3	60 Hz	1, 2
EDH 5-9	NEPTRONIC	DF C-01H	8"	8"	250 CFM	560 FPM	60 °F	85 °F	2 kW	208 V	3	60 Hz	1, 2
EDH 5-10	NEPTRONIC	DF C-01H	10"	10"	500 CFM	600 FPM	60 °F	85 °F	4 kW	208 V	3	60 Hz	1, 2

KEYNOTE LEGEND

1. M.C. SHALL COORDINATE WITH G.C. FOR FINAL ERU LOCATION AND ROOF PENETRATIONS.

PIPING VALVE & ACCESSORY LEGEND

- BALL VALVE
- BALL VALVE INDICATOR
- BUTTERFLY VALVE
- GATE VALVE
- VENTURI FLOW MEASURING DEVICE
- CHECK VALVE
- 2-WAY HYDRONIC CONTROL VALVE
- 2-WAY DOMESTIC CONTROL VALVE
- 3-WAY CONTROL VALVE
- DRAIN VALVE
- STRAINER
- MANUAL AIR VENT
- AUTO AIR VENT
- TEMPERATURE GAUGE
- PRESSURE GAUGE
- SENSOR
- CIRCUIT SOLVER
- UNION

PIPING LEGEND

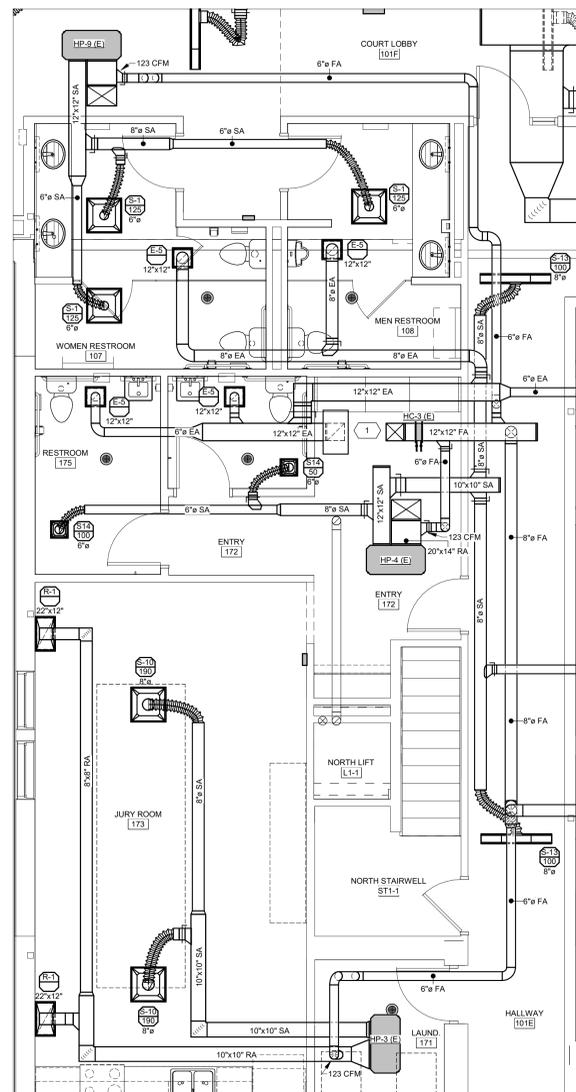
- ABOVEGROUND WASTE
- UNDERGROUND WASTE
- VENT
- RC
- CW
- DOMESTIC COLD WATER
- HW
- DOMESTIC HOT WATER
- RHW
- RECIRC HOT WATER
- HWS
- HWR
- HOT WATER HTG RETURN
- HPS
- HPR
- HEAT PUMP RETURN
- COND
- RS
- GEOTHERM WS
- GEOTHERM WR
- CONNECT TO EXISTING

HVAC LEGEND

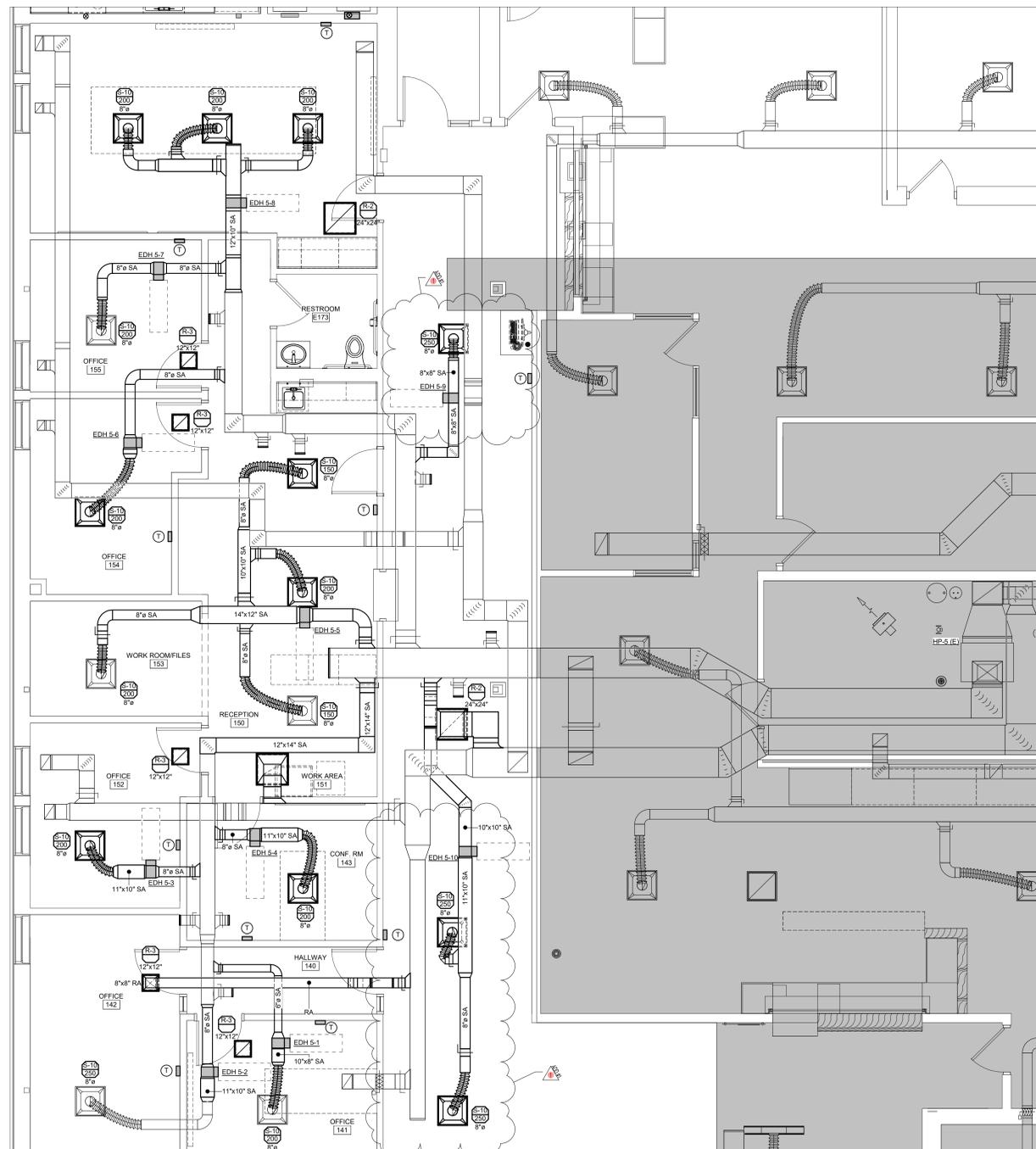
- POSITIVE PRESSURE DUCT
- NEGATIVE PRESSURE DUCT
- MANUAL DAMPER
- MOTORIZED DAMPER
- FIRE DAMPER
- COMB. SMOKE/FIRE DAMPER
- BACK DRAFT DAMPER
- ACCESS DOOR
- ELBOW WITH TURNING VANES
- HI-EFFICIENCY TAKEOFF (W/ VOLUME DAMPER)
- FLEXIBLE DUCT
- CONNECT TO EXISTING
- AIR TERMINAL TAG
- AIR TERMINAL MARK
- AIR TERMINAL CFM
- AIR TERMINAL SIZE

LINE TYPE LEGEND

- EXISTING
- NEW
- REMOVE
- HIDDEN
- MATCHLINE

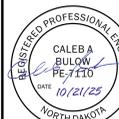
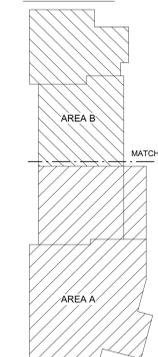


2 M402 FIRST FLOOR PLAN - AREA B - BASE BID DETAIL
1/4" = 1'-0"



1 M402 FIRST FLOOR PLAN - AREA B - HVAC - ALTERNATE BID 3
1/4" = 1'-0"

KEY PLAN

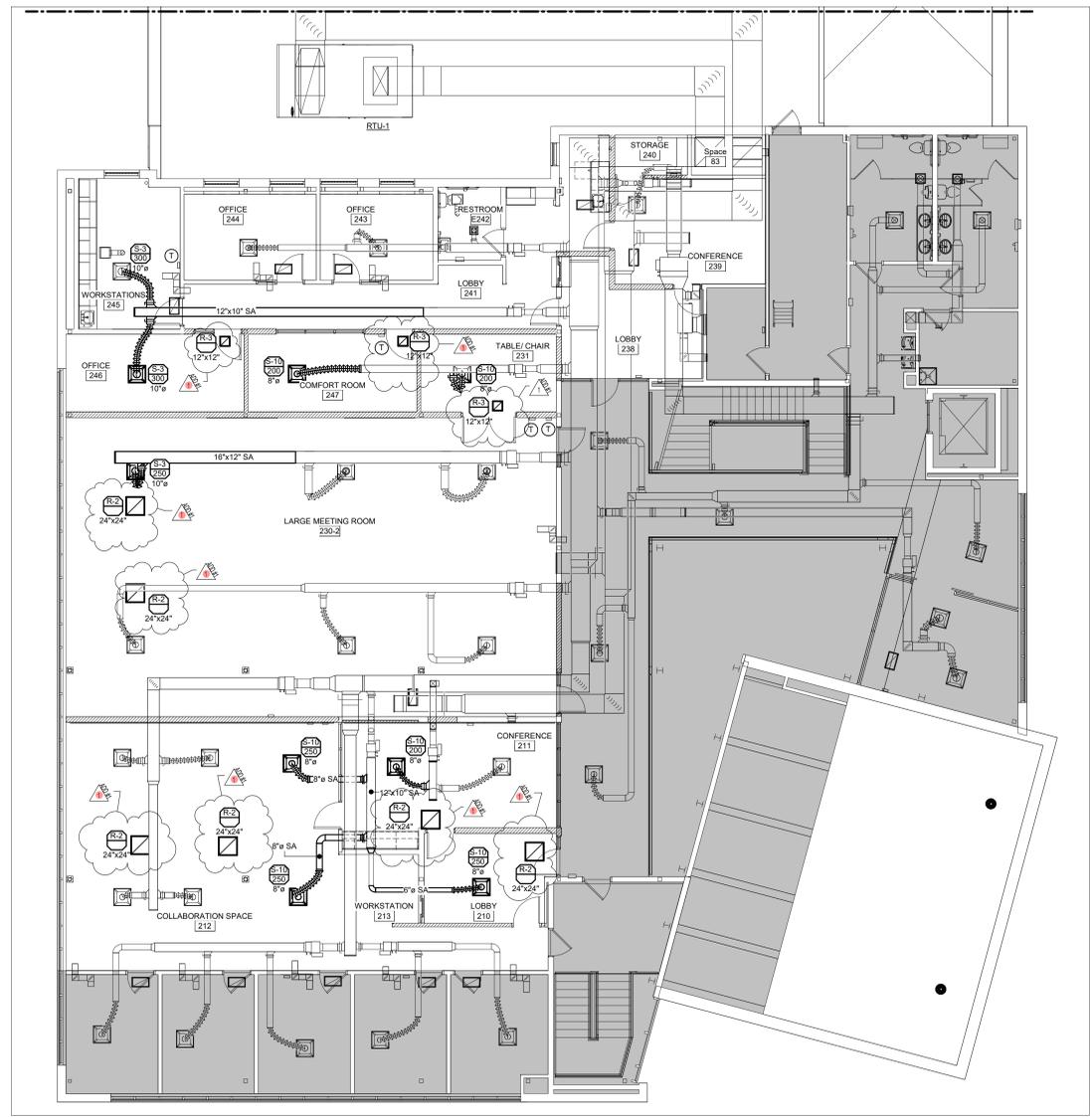


REVISION SCHEDULE

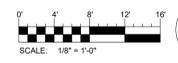
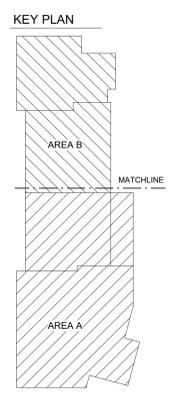
NO.	DESCRIPTION	DATE
1	ADDENDUM #1	11/04/25

LINE TYPE LEGEND	
	EXISTING
	NEW
	REMOVE
	HIDDEN
	MATCHLINE

HVAC LEGEND	
	POSITIVE PRESSURE DUCT
	NEGATIVE PRESSURE DUCT
	MANUAL DAMPER
	MOTORIZED DAMPER
	FIRE DAMPER
	COMB. SMOKE/FIRE DAMPER
	BACK DRAFT DAMPER
	ACCESS DOOR
	ELBOW WITH TURNING VANES
	HI-EFFICIENCY TAKEOFF (W/ VOLUME DAMPER)
	FLEXIBLE DUCT
	CONNECT TO EXISTING
	AIR TERMINAL TAG
	AIR TERMINAL MARK
	AIR TERMINAL CFM
	AIR TERMINAL SIZE

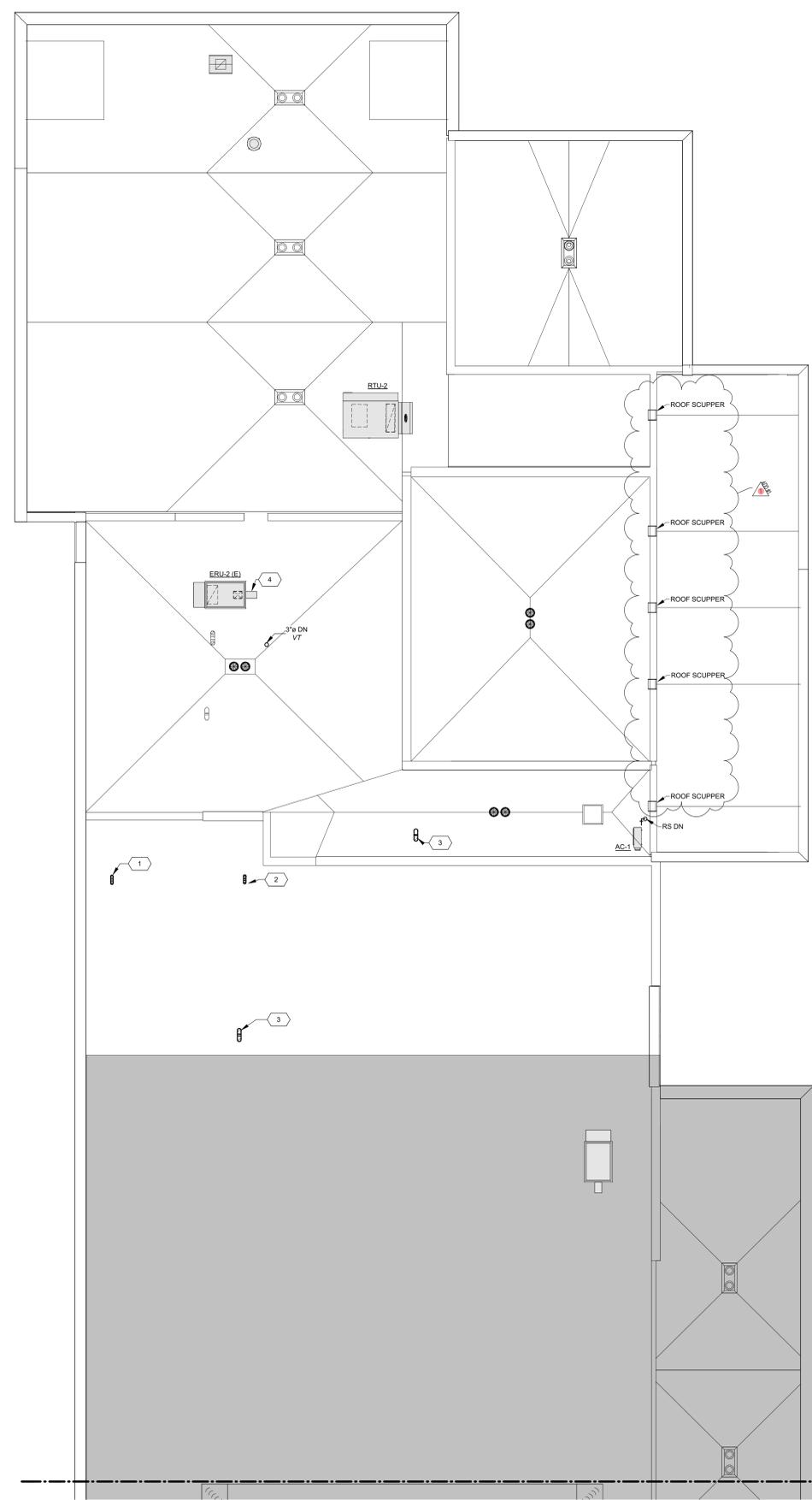


1
M403
SECOND FLOOR PLAN - AREA A - ALTERNATE BID 1
1/8" = 1'-0"

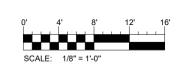


REVISION SCHEDULE		
NO.	DESCRIPTION	DATE
1	ADDENDUM #1	11/04/25

KEYNOTE LEGEND	
1	4" Ø OVEN EXHAUST VENT
2	4" Ø DRYER VENT BOX EXHAUST VENT
3	4" Ø EXHAUST VENT FROM RESTROOM EXHAUST FAN
4	M.C. SHALL COORDINATE WITH G.C. FOR FINAL ERU LOCATION AND ROOF PENETRATIONS.

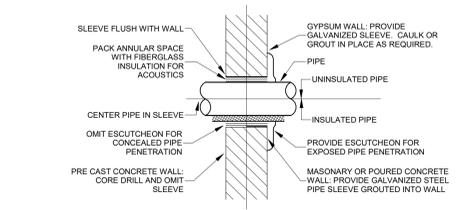


1
M404
ROOF PLAN - AREA B - BASE BID
1/8" = 1'-0"

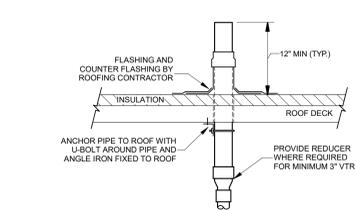


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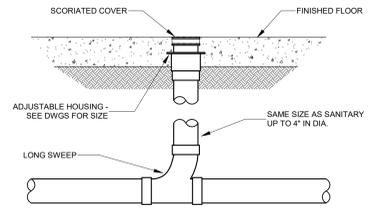
NO.	DESCRIPTION	DATE
1	ADDENDUM #1	11/04/25



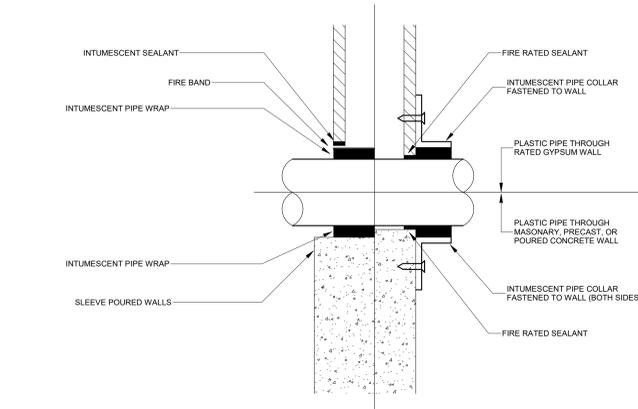
1 M502 NTS
PIPE PENETRATION OF NON-RATED WALL



3 M502 NTS
VENT THRU ROOF (VTR)

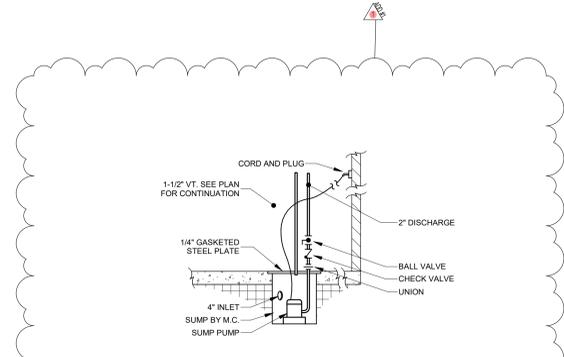


5 M502 NTS
FLOOR CLEANOUT DETAIL

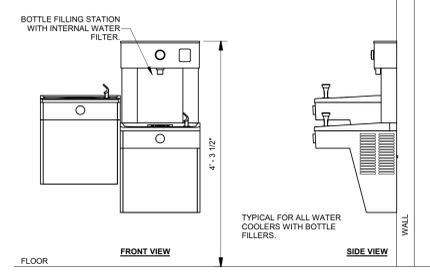


2 M502 NTS
PIPE PENETRATION RATED WALL

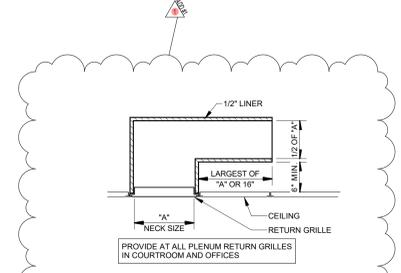
DETAIL NOTES:
1. DETAILS ARE TYPICAL OF BOTH SIDES OF THE RATED WALL.
2. FOR METAL PIPING: PROVIDE SLEEVES AND FIRE RATED SEALANT AS REQUIRED.
3. FOR INSULATED PIPING: PROVIDE NON-FLAMMABLE INSULATION UNINTERRUPTED THROUGH THE RATED WALL WITH FIRESTOPPING MEANS INSTALLED ON THE OUTSIDE OF THE INSULATION.



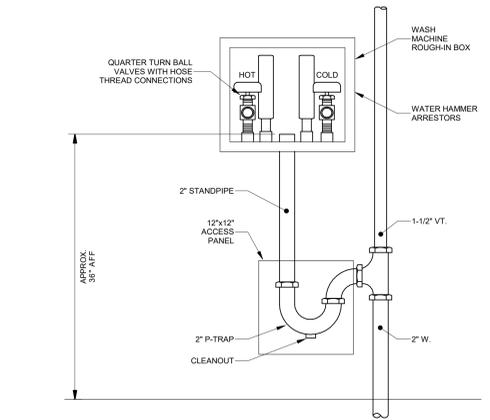
6 M502 NTS
SEWAGE EJECTOR DETAIL



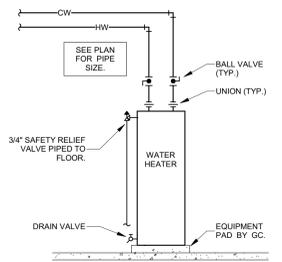
10 M502 NTS
ADA WATER COOLER DETAIL



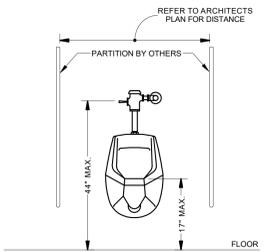
16 M502 NTS
TYPICAL SOUND BOOT



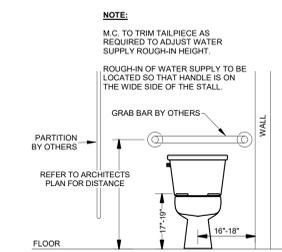
4 M502 NTS
WASH MACHINE CONNECTION DETAIL



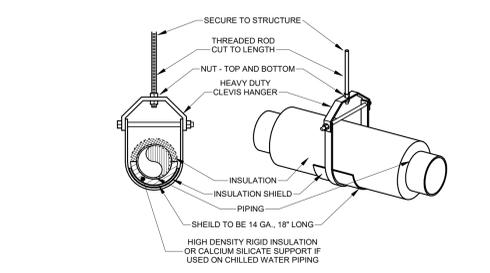
7 M502 NTS
WATER HEATER PIPING DETAIL



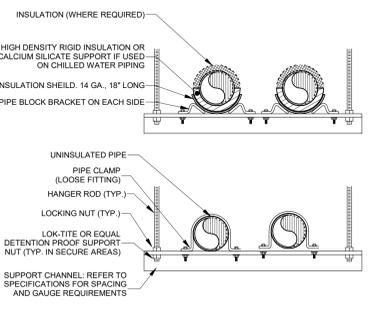
9 M502 NTS
ADA URINAL DETAIL



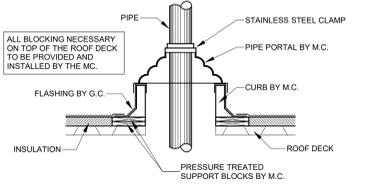
11 M502 NTS
ADA WATER CLOSET DETAIL



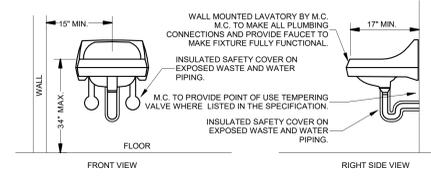
12 M502 NTS
PIPE HANGER DETAIL



13 M502 NTS
PIPE TRAPEZE HANGER DETAIL



14 M502 NTS
PIPE PORTAL DETAIL



8 M502 NTS
ADA LAVATORY DETAIL

E
D
C
B
A

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221200 - OUTLET BOXES

SCHEDULE NOTES:

- WHERE BOXES ARE INSTALLED IN FIRE RATED WALLS, PROVIDE FIRE RATED BOX.
- MOUNTING HEIGHT SHALL BE COORDINATED PRIOR TO INSTALLATION.

TAG	QTY	TYPE	MANUFACTURER	MODEL	NOTES
BX-1	1	CLOTHES WASHER BOX	GUY GRAY	T150	1, 2
BX-2	2	ICE MAKER OUTLET BOX	GUY GRAY	88531	1, 2

233700 - AIR TERMINAL SCHEDULE

SCHEDULE NOTES:

- M.C. TO PROVIDE SHEET METAL TRISITION FROM DUCT TO GRILLE AS REQUIRED.
- PLAQUE TYPE DIFFUSER
- LONG BLADE
- PROVIDE DAMPER
- ROUND DIFFUSER
- RECTANGULAR/SQUARE DIFFUSER/GRILLE
- 45 DEGREE BLADES ANGLED UP
- 24"x24" FACE
- DOUBLE DEFLECTION
- LINEAR SLOT DIFFUSER, 3 SLOT, 48" LONG
- SUPPLY SDA PLENUM WITH LINEAR SLOT DIFFUSER
- *CONTRACTOR TO VERIFY CEILING TYPES PRIOR TO ORDERING
- CONE TYPE DIFFUSER
- SHORT BLADE
- FILTER GRILLE, FOR 2 INCH FILTERS
- PAINT BLACK INSIDE DUCT SURFACE ABOVE REGISTER
- HEAVY DUTY
- EGG CRATE GRILLE
- SINGLE DEFLECTION
- CEILING RADIATION FIRE DAMPER, 1.5 HR RATED
- LINEAR SLOT DIFFUSER, 3 SLOT, 72" LONG

TAG	QTY	MANUFACTURER	MODEL	FUNCTION	SIZE	NECK DIAMETER	FINISH	FRAME	MOUNT	NOTES
E-5	6	PRICE INDUSTRIES	80	Exhaust Air	12"x12"		WHITE	TYPE TB	SURFACE	1, 10, 13, 15
R-1	7	PRICE INDUSTRIES	80	Return Air	22"x12"		WHITE	TYPE F	SURFACE	1, 10, 13, 15
R-2	3	PRICE INDUSTRIES	80	Return Air	24"x24"		WHITE	TYPE TB	LAY-IN-TILE	1, 10, 13, 15
R-3	5	PRICE INDUSTRIES	80	Return Air	12"x12"		WHITE	TYPE F	SURFACE	1, 10, 13, 15
R-4	5	PRICE INDUSTRIES	80	Return Air	24"x24"		WHITE	TYPE F	SURFACE	1, 10, 13, 15
S14	3	PRICE INDUSTRIES	SCB	Supply Air	6"ø	0'-6"	WHITE	TYPE F	SURFACE	1, 2, 6, 10
S-1	7	PRICE INDUSTRIES	SPD	Supply Air	6"ø		WHITE	TYPE 31	SURFACE	1, 2, 6, 10
S-10	18	PRICE INDUSTRIES	SPD	Supply Air	8"ø	0'-8"	WHITE	TYPE 31	SURFACE	1, 2, 6, 10
S-12	21	PRICE INDUSTRIES	SDS	Supply Air	8"ø	0'-8"	WHITE	TYPE 14	LAY-IN-TILE	1, 10, 19, 20
S-13	2	PRICE INDUSTRIES	SDS	Supply Air	8"ø	0'-8"	WHITE	TYPE 14	LAY-IN-TILE	1, 10, 18, 20

223000 - ELECTRIC WATER HEATER SCHEDULE

SCHEDULE NOTES:

- MOUNT ON 4" CONCRETE HOUSEKEEPING PAD
- SET TEMPERATURE TO 120 DEGREES
- WIRE FOR SIMULTANEOUS HEATING ELEMENT OPERATION
- WIRE FOR SEPARATE HEATING ELEMENT OPERATION

MARK	MANUFACTURER	MODEL	HEATING ELEMENT KW	TANK VOLUME	ELECTRICAL	NOTES
WH-1	Rheem	EGSP6	2 kW	6 gal	120 V 1 60 Hz	1, 2, 4

233400 - FAN SCHEDULE

SCHEDULE NOTES:

- PROVIDE ROOF CURB
- PROVIDE MOUNTING HARDWARE, ISOLATION DEVICES, FRAME WORK FOR SUSPENDED INSTALLATION
- PROVIDE WALL CAP
- PROVIDE FACTORY DISCONNECT
- PROVIDE ECM TYPE MOTOR

MARK	MANUFACTURER	MODEL	FAN TYPE	SYSTEM	AIRFLOW	ESP	RPM	SONES	SPEED CONTROL	MOTOR	VOLT	Ph	Hz	notes
EF-5	GREENHECK	SP-B150	CEILING	EXHAUST FAN	70 CFM	0.38 in-wg	669	3.5	SS	129 W	120 V	1	60 Hz	2, 4, 5

223000 - SUMP PUMP SCHEDULE

SCHEDULE NOTES:

- SEE DETAIL FOR ACCESSORIES
- AUTOMATIC PUMP CONTROL WITH HIGH WATER ALARM AND CONTACT FOR BAS ALARM
- PROVIDE PUMPS WITH 15' CORDS

MARK	MANUFACTURER	MODEL	TYPE	FLOW	PRESSURE	MOTOR INFORMATION	NOTES
SP-1	ZOELLER	M292	SP	46 GPM	22.54 ftH2O	0.5 hp 115 V 1 60 Hz	1

221300 - WASTE FIXTURE SCHEDULE

SCHEDULE NOTES:

-
-

TAG	QTY	TYPE	MFR	MODEL	DESCRIPTION
FD-1	6	FLOOR DRAIN	WATTS	FD-102-A5	Finished Area Floor Drain with Round Strainer

224000 - PLUMBING FIXTURE SCHEDULE 1

SCHEDULE NOTES:

- SCHEDULE IS ABBREVIATED. SEE PLUMBING SPECIFICATIONS SECTION 224000 FOR FULL SPECIFICATIONS.
- SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS
- SEAL JOINTS BETWEEN FIXTURES AND FLOORS/WALLS WITH MILDEW RESISTANT SEALANT. MATCH COLOR TO FIXTURE

TAG	QTY	TYPE	MFR	MODEL	ADA	MFR	FAUCET/VALVE	OPTION	DESCRIPTION
EW-1	2	WATER COOLER	ELKAY	LZSTL8WSMP	Yes	INTEGRAL	INTEGRAL	INTEGRAL	SURFACE WALL MOUNT, SS BASIN, INTEGRAL DRAIN GRIDS, SINGLE LEVEL WHEELCHAIR ACCESSIBLE, FRONT PUSH-BARS, BOTTLE FILLING STATION, 120V, PROVIDE CORD AND PLUG FOR POWER CONNECTION.
LAV-1	6	LAVATORY	ZURN	Z5120	Yes	ZURN	ZG6915-XL	HANDS FREE	19" VITREOUS CHINA, SELF-RIMMING, COUNTERTOP LAVATORY, 0.5 GPM
LAV-2	2	LAVATORY	ZURN	Z5350	Yes	ZURN	ZG6915-XL	HANDS FREE	19" X 17" VITREOUS CHINA, SELF-RIMMING, WALL HUNG LAVATORY, 0.5 GPM
S-1	1	SINK - GENERAL PURPOSE	ELKAY	LR3319	Yes	ZURN	Z7870C-XL	SINGLE HANDLE	CLASSIC STAINLESS STEEL 33" X 19-1/2" X 7-5/8" EQUAL DOUBLE BOWL DROP-IN SINK, WITHOUT SPRAY, 2.2 GPM
S-2	1	SINK - GENERAL PURPOSE	ZURN	LRADQ131655	Yes	ZURN	Z7870C-XL	SINGLE HANDLE	SINGLE BOWL DROP-IN ADA SINK WITH QUICK CLIP, STAINLESS STEEL, WITHOUT SPRAY, SINGLE HANDLE FAUCET 2.2 GPM
UR-1	1	URINAL	ZURN	Z5755-U	No	ZURN	Z6903AV	SINGLE HANDLE	VITREOUS CHINA, 0.125 GPF TO 1.0 GPF, WALL HUNG, INTEGRAL TRAP, WASH DOWN URINAL, FLUSH/VALVE
WC-1	5	WATER CLOSET - ADA	ZURN	Z5551-K	Yes	INTEGRAL	INTEGRAL	INTEGRAL	VITREOUS CHINA, 1.6 GPF LOW CONSUMPTION, HIGH PERFORMANCE, ADA, ELONGATED, SIPHON JET
WC-2	1	WATER CLOSET	ZURN	Z5535-K	No	INTEGRAL	INTEGRAL	INTEGRAL	VITREOUS CHINA, HIGH EFFICIENCY, 1.28 GPF, STD HEIGHT, ELONGATED, TOILET

233000 - HW REHEAT VAV SCHEDULE

SCHEDULE NOTES:

- HEATING CAPACITIES BASED ON 30% PROPYLENE GLYCOL

MARK	MANUFACTURER	MODEL	SIZE	AIRFLOW				HOT WATER COIL										NOTES
				CLG. MAX	CLG. MIN	HEATING	APD	ROWS	CAP.	GPM	EWT	EAT	LAT	FPD				
VAV-2-5	Trus HVAC	DESV	SIZE 24 X 16	3000 CFM	1000 CFM	2400 CFM	0.2 in-wg	1	69,600 Btu/h	3 GPM	130 °F	55 °F	95 °F	0.11 ftH2O	1			
VAV-2-6	Trus HVAC	DESV	Size 06	250 CFM	83 CFM	200 CFM	0.05 in-wg	1	8,600 Btu/h	1 GPM	130 °F	55 °F	95 °F	0.48 ftH2O	1			
VAV-2-7	Trus HVAC	DESV	Size 06	250 CFM	83 CFM	200 CFM	0.05 in-wg	1	8,600 Btu/h	1 GPM	130 °F	55 °F	95 °F	0.48 ftH2O	1			
VAV-5-1	Trus HVAC	DESV	Size 06	150 CFM	45 CFM	120 CFM	0.02 in-wg	1	6,800 Btu/h	1 GPM	130 °F	55 °F	95 °F	0.48 ftH2O	1			
VAV-5-2	Trus HVAC	DESV	Size 08	250 CFM	75 CFM	200 CFM	0.05 in-wg	1	10,700 Btu/h	1 GPM	130 °F	55 °F	95 °F	0.64 ftH2O	1			
VAV-5-3	Trus HVAC	DESV	Size 08	200 CFM	60 CFM	160 CFM	0.02 in-wg	1	8,900 Btu/h	1 GPM	130 °F	55 °F	95 °F	0.64 ftH2O	1			
VAV-5-4	Trus HVAC	DESV	Size 08	200 CFM	60 CFM	160 CFM	0.02 in-wg	1	8,900 Btu/h	1 GPM	130 °F	55 °F	95 °F	0.64 ftH2O	1			
VAV-5-5	Trus HVAC	DESV	Size 10	750 CFM	225 CFM	600 CFM	0.13 in-wg	1	19,500 Btu/h	2 GPM	130 °F	55 °F	95 °F	0.41 ftH2O	1			
VAV-5-6	Trus HVAC	DESV	Size 08	200 CFM	60 CFM	160 CFM	0.02 in-wg	1	8,900 Btu/h	1 GPM	130 °F	55 °F	95 °F	0.64 ftH2O	1			
VAV-5-7	Trus HVAC	DESV	Size 08	200 CFM	60 CFM	160 CFM	0.2 in-wg	1	8,900 Btu/h	1 GPM	130 °F	55 °F	95 °F	0.64 ftH2O	1			
VAV-5-8	Trus HVAC	DESV	Size 10	800 CFM	180 CFM	480 CFM	0.08 in-wg	1	18,300 Btu/h	2 GPM	130 °F	55 °F	95 °F	0.41 ftH2O	1			
VAV-5-9	Trus HVAC	DESV	Size 08	250 CFM	75 CFM	200 CFM	0.2 in-wg	2	13,400 Btu/h	1 GPM	130 °F	55 °F	95 °F	0.12 ftH2O	1			
VAV-5-10	Trus HVAC	DESV	Size 08	500 CFM	150 CFM	400 CFM	0.2 in-wg	2	26,300 Btu/h	3 GPM	130 °F	55 °F	95 °F	1.4 ftH2O	1			

HEAT PUMP ROOFTOP UNIT SCHEDULE

SCHEDULE NOTES:

- PROVIDE HOSE KIT WITH Y-TYPE STRAINER, AUTO-BALANCE VALVE, AND ISOLATION VALVES. SEE SPECIFICATION.
- NO EQUAL SHALL BE CONSIDERED IF ANY OF THE SCHEDULED VALUES ARE +/- 5% FROM VALUE SCHEDULED. ALL ELECTRICAL CHANGES CAUSED BY DIFFERING MFR WILL BE PAID FOR BY...

MARK	MANUFACTURER	MODEL	AIR SIDE			WATER SIDE			COOLING			HEATING			ELECTRICAL			NOTES			
			FLOW	ESP	PD	FLOW	PD	CAPACITY	EER	EWT	LWT	CAPACITY	COP	EWT	MCA	MOP	VOLT		Ph	Hz	
RTU-2	Aaon, Inc.	RNA-015	5,500 CFM	2 in-wg	30% PG	45 GPM	24 ftH2O	186,800 Btu/h	8.6	90 °F	101 °F	101 °F	184,600 Btu/h	3.66	40 °F	95 A	110 A	208 V	3	60 Hz	1, 2

238000 - SPLIT SYSTEM AC

SCHEDULE NOTES:

- PROVIDE WALL HUNG REMOTE WITH TEMPERATURE SENSOR.
- M.C. SHALL PROVIDE METAL STAND FOR OUTDOOR UNIT
- PROVIDE CONDENSATE PUMP

MARK	MANUFACTURER	DESCRIPTION	MODEL	COOLING CAPACITY	SEER	ELECTRIC			NOTES	
						MCA	VOLT	PH		
AC-1	Daikin	SPLIT AC - OUTDOOR UNIT	RK18B	18,000 Btu/h	20	14 A	208 V	1	60 Hz	1, 2, 3
AC-1a	DAIKIN	SPLIT AC - INDOOR UNIT	FTK18B			0 A	208 V			

238000 - CONVECTOR - HYDRONIC

SCHEDULE NOTES:

- PROVIDE END CAPS ON LEFT/RIGHT/BOTH SIDES OF CONVECTOR.
- M.C. SHALL PROVIDE MEANS TO MOUNT UNIT TO WALL
- PROVIDE COLOR SAMPLE SHEET FOR COLOR SELECTION BY ARCHITECT
- HEATING CAPACITIES BASED ON 30% PROPYLENE GLYCOL

MARK	MANUFACTURER	MODEL	MOUNT STYLE	SIZE			HEAT OUTPUT	EAT	WATER			NOTES	
				DEPTH	LENGTH	HEIGHT			FLOW	EWT	WPD		
CV-1	SIGMA CORP.	CWS	WALL MOUNT	4"	36"	24"	2,054 Btu/h	65 °F	1.7 GPM	130 °F	0.01 ftH2O	120 °F	1, 2, 3, 4



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REVISION SCHEDULE

NO.	DESCRIPTION	DATE
1	ADDENDUM #1	11/04/25

DUNN COUNTY
COURTHOUSE REMODEL
MANNING, ND

DATE
10/21/2025
PHASE
CONSTRUCTION DOCUMENTS
PROJECT
24146
SHEET
M600
SCHEDULES



Prairie Engineering P.C.
Professional Consulting Engineers
Minn. ND S&T | 701.852.0363

11/4/2025 12:59:03 PM

SECTION 23 8200 - CONVECTION HEATING AND COOLING UNITS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Hydronic or steam convectors.
- B. Hydronic or steam cabinet unit heaters.
- C. Duct-mounted coils.

1.02 RELATED REQUIREMENTS

- A. Section 23 2213 - Steam and Condensate Heating Piping.
- B. Section 23 2214 - Steam and Condensate Heating Specialties.
- C. Section 23 3100 - HVAC Ducts and Casings.

1.03 REFERENCE STANDARDS

- A. AHRI 410 - Forced-Circulation Air-Cooling and Air-Heating Coils; 2001, with Addenda (2011).
- B. SMACNA (DCS) - HVAC Duct Construction Standards Metal and Flexible; 2020.

1.04 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements for submittal procedures.
- B. Product Data: Provide typical catalog of information including arrangements.
- C. Shop Drawings:
 - 1. Indicate air coil and frame configurations, dimensions, materials, rows, connections, and rough-in dimensions.
 - 2. Submit schedules of equipment and enclosures typically indicating length and number of pieces of element and enclosure, corner pieces, end caps, cap strips, access doors, pilaster covers, and comparison of specified heat required to actual heat output provided.
 - 3. Submit the following for blower-coil units indicating:
 - a. Overall dimensions including installation, operation, and service clearances.
 - b. Fan curves with specified operating point clearly plotted.
- D. Selection Samples: For each finish product specified, color chart representing manufacturer's full range of available colors.
- E. Project Record Documents: Record actual locations of components and locations of access doors in radiation cabinets required for access or valving.
- F. Operation and Maintenance Data: Include manufacturer's descriptive literature, operating instructions, installation instructions, maintenance and repair data, and parts listings.
- G. Warranty: Submit manufacturer's warranty and ensure forms have been completed in Owner's name and registered with manufacturer.
- H. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
 - 1. See Section 01 6000 - Product Requirements for additional provisions.
 - 2. Extra Filters: Three sets of each type and size.

1.05 WARRANTY

- A. See Section 01 7800 - Closeout Submittals for additional warranty requirements.

PART 2 PRODUCTS

2.01 HYDRONIC CONVECTORS

- A. Manufacturers:
 - 1. Modine Manufacturing Company: www.modineHVAC.com/#sle.
 - 2. Sigma Convector Enclosure Corp.; www.sigmaproducts.com/#sle
 - 3. Slant/Fin Corporation: www.slantfin.com/#sle.
 - 4. Sterling Hydronics, a Mestek Company: www.sterlingheat.com/#sle.
 - 5. Vulcan Radiator, a Mestek Company: www.vulcanrad.com/#sle.
 - 6. Substitutions: See Section 23 0500 - HVAC General Provisions See Section 01 6000 - Product Requirements.
- B. Heating Elements: Seamless copper tubing mechanically expanded into evenly spaced aluminum fins and cast iron headers, steel side plates and supports, factory air pressure tested at 100 psi under water, with means of adjusting pitch of element.
- C. Cabinet: 16 gauge, 0.0598 inch sheet steel front and top, 18 gauge, 0.0478 inch sheet steel back and ends; exposed corners rounded; easily secured removable front panels, adequately braced and reinforced for stiffness.
- D. Finish: Factory applied baked enamel of color as selected.
- E. Damper: Where not thermostatically controlled, provide knob-operated internal damper at enclosure air outlet.
- F. Access Doors: For otherwise inaccessible valves, provide factory-made permanently hinged access doors, 6 by 7 inch minimum size, integral with cabinet.

2.02 HYDRONIC CABINET UNIT HEATERS

- A. Manufacturers:
 - 1. Daiken Applied; www.daikenapplied.com/products/fan-coils/unit-heaters/#sle.
 - 2. Modine Manufacturing Company: www.modineHVAC.com/#sle.
 - 3. Sigma Convector Enclosure Corp.; www.sigmaproducts.com/#sle
 - 4. Sterling Hydronics a Mestek Company: www.sterlingheat.com/#sle.
 - 5. Trane Technologies, PLC: www.trane.com/#sle.
 - 6. Vulcan Radiator, a Mestek Company: www.vulcanrad.com/#sle.
 - 7. Substitutions: See Section 23 0500 - HVAC General Provisions.
- B. Provide products listed, classified, and labeled by Underwriters Laboratories Inc. (UL) or testing firm acceptable to authority having jurisdiction as suitable for purpose indicated.
- C. Coils:
 - 1. Evenly spaced aluminum fins mechanically bonded to copper tubes.
 - 2. Heating Hot Water: Suitable for working temperatures up to a maximum not less than 200 degrees F.
- D. Cabinet: Minimum 16 gauge, 0.0598 inch thick sheet steel front panel with exposed corners and edges rounded, easily removed panels, glass fiber insulation, integral air outlet, and inlet grilles.
- E. Finish: Factory applied baked enamel of color as selected on visible surfaces of enclosure or cabinet.
- F. Fans: Centrifugal forward-curved double-width wheels, statically and dynamically balanced, direct driven.
- G. Motor: Tap wound multiple speed permanent split capacitor with sleeve bearings, resiliently mounted.
- H. Control: Factory wired, solid state, infinite speed control, located in cabinet.

- I. Filter: Easily removed, 1 inch thick glass fiber throw-away type, located to filter air before coil.
- J. Electrical Characteristics: Factory wire motors and controls for a single field connection.

2.03 DUCT-MOUNTED COILS

A. Water Coils:

- 1. Manufacturers:
 - a. Carrier Corporation: www.commercial.carrier.com/#sle.
 - b. Daikin Applied: www.daikinapplied.com/#sle.
 - c. Greenheck Fan Corporation; www.greenheck.com/products/#sle
 - d. Trane Technologies, PLC: www.trane.com/#sle.
 - e. USA Coil & Air: www.usacoil.com/#sle.
 - f. Johnson Controls International, PLC: www.johnsoncontrols.com/#sle.
 - g. Substitutions: See Section 23 0500 - HVAC General Provisions.
- 2. Coils rated and tested in accordance with AHRI 410.
- 3. Tubes: Material to consist of seamless copper or brass, mechanically expanded or tension wound to fins; appropriate tube joining methods based on tube material.
- 4. Fins: Material to consist of aluminum or copper, continuous plate type with full fin collars or individual helical finned tube type wound under tension.
- 5. Casing: Heavy gauge galvanized steel with mounting holes, including intermediate tube supports if required by coil design and length.
- 6. Headers (Manifolds): Construct of seamless copper pipe, cast iron, or nonferrous material with tube connection appropriate to header material provided.
- 7. Acceptable Factory Testing Methods:
 - a. Perform hydrostatic testing for coils with removable headers in accordance with approved shop drawings and normally accepted means and methods.

B. Electric Coils:

- 1. Manufacturers:
 - a. Brasch Manufacturing Company: www.braschmfg.com/#sle.
 - b. INDEECO: www.indeeco.com/#sle.
 - c. Neptronic; www.neptronics.com/heaters/#sle
 - d. Thermolec Ltd.: www.thermolec.com/#sle
 - e. Substitutions: See Section 23 0500 - HVAC General Provisions.
- 2. Provide products listed, classified, and labeled by Underwriters Laboratories Inc. (UL) or testing firm acceptable to authority having jurisdiction as suitable for purpose indicated.
- 3. Heater Coil Assembly:
 - a. Minimum 20 gauge, 0.0359 inch thick, galvanized or corrosion resistant steel cabinet.
 - b. Terminal control box with hinged access cover, heating elements, and controls.
 - c. Relay or Contactor Controlled Heating Section:
 - 1) Open Coil: Nickel chromium heating element, stainless steel or nickel plated terminals supported in ceramic bracket bushings.
 - 2) Over-Temperature Protection: Provide thermal cutouts for primary and secondary over-temperature protection.
 - d. Duct End Connections:
 - 1) Round: Constructed for duct insertion using matching standard duct sizes.
 - 2) Custom: Constructed for duct insertion or duct flanges using custom duct sizes.
- 4. Heater Controls:

- a. Coil temperature limit switch.
 - b. Interlocked airflow switch.
 - c. Interlocked disconnect switch.
 - d. Load and control terminal blocks.
 - e. Load fuses as recommended by NEC.
5. Electrical Characteristics: Factory wire controls for a single field connection.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that surfaces are suitable for installation.
- B. Verify that field measurements are as indicated on drawings.

3.02 INSTALLATION

- A. Install in accordance with manufacturer's recommendations.
- B. Install equipment exposed to finished areas after walls and ceilings are finished and painted.
- C. Convectors:
 - 1. Install where indicated.
 - 2. Coordinate to ensure correct recess size for recessed convectors.
- D. Cabinet Unit Heaters:
 - 1. Coordinate to ensure correct recess size for recessed units.
- E. Units with Hydronic Coils:
 - 1. Provide with shut-off valve on supply piping and tamper-proof, balancing valve with memory stop on return piping.
 - 2. If not easily accessible, extend air vent to exterior surface of cabinet for ease of servicing.
 - 3. Provide manual air vents with stop valve for cabinet unit heaters, fan coil units, and unit heaters.
- F. Units with Cooling Coils: Connect drain pan to condensate drain.
- G. Air Coils:
 - 1. Install in ducts and casings in accordance with SMACNA (DCS).
 - a. Support coil sections independent of piping and secure to duct.
 - b. Arrange supports to avoid piercing drain pans.
 - c. Provide airtight seals between coil and duct.
 - d. See Section 23 3100.
 - 2. Coil Safeguards:
 - a. Protect coils to prevent damage to flanges and fins.
 - b. Comb out damaged fins.
 - 3. Install all coils level except cleanable coils with 1:50 pitch.
 - 4. Make connections to hydronic and steam coils with unions and flanges.
 - 5. Hydronic (Drainable) Coils:
 - a. Connect water supply to leaving air side of coil (counterflow arrangement).
 - b. Provide with shut-off valve on supply piping and tamper-proof, balancing valve with memory stop on return piping.
 - c. Locate supply water connection on leaving air side at bottom of supply header, and return water connection at top.
 - d. Provide manual air vents with stop valves at high points.
 - 1) Install drain connections at low points of installation.

2) See Section 23 2113 and Section 23 2114.

3.03 FIELD QUALITY CONTROL

- A. See Section 01 4000 - Quality Requirements for additional requirements.
- B. Test and inspect in accordance with manufacturer's recommendations/check list.

3.04 CLEANING

- A. After construction and painting is completed, clean exposed surfaces of units.
- B. Vacuum clean coils and inside of units.
- C. Touch-up marred or scratched surfaces of factory-finished cabinets using finish materials furnished by the manufacturer.
- D. Install new filters.

3.05 CLOSEOUT ACTIVITIES

- A. See Section 01 7800 - Closeout Submittals for closeout submittals.

3.06 PROTECTION

- A. Provide finished cabinet units with protective covers during the balance of construction.

3.07 EQUIPMENT SCHEDULES

END OF SECTION



ADDENDUM

PE 25018 Dunn County Courthouse Renovation

RE: addendum

Issued: November 4, 2025

ADDENDUM #: E1

NOTICE TO CONTRACTORS

This Addendum is prepared to supplement information presented in the Drawings and Project Manual dated October 21, 2025 for the above referenced project. All additions, changes, omissions and conditions listed herein shall become an integral part of the Contract Documents.

PROCUREMENT AND CONTRACTING REQUIREMENTS

1. SECTION 27 1513 – NETWORK CABLING

- Approved installer:
 - Enetk, LLC. 11085 32E St SW Dickinson, ND 58601, 701/483-8330

DRAWINGS

1. E201 – LEVEL 1 LIGHTING PLAN

- Drawing 1/E201: Added additional lighting control locations and emergency fixtures.
- Drawing 2/E201: Added additional lighting control locations and emergency fixtures.

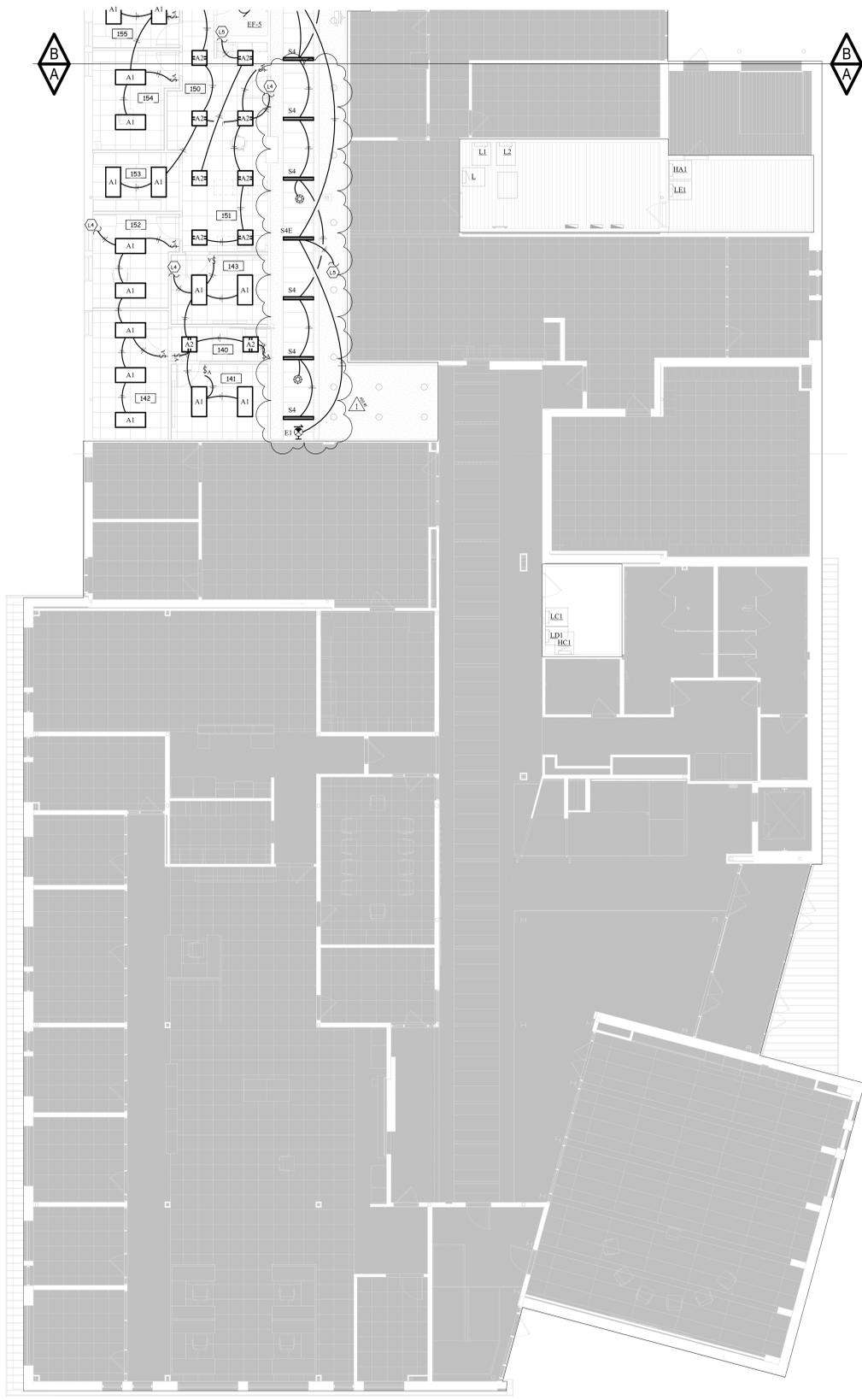
2. E202 – LEVEL 2 LIGHTING PLAN

- Fixture Schedule: Updated part numbers and approved equals.

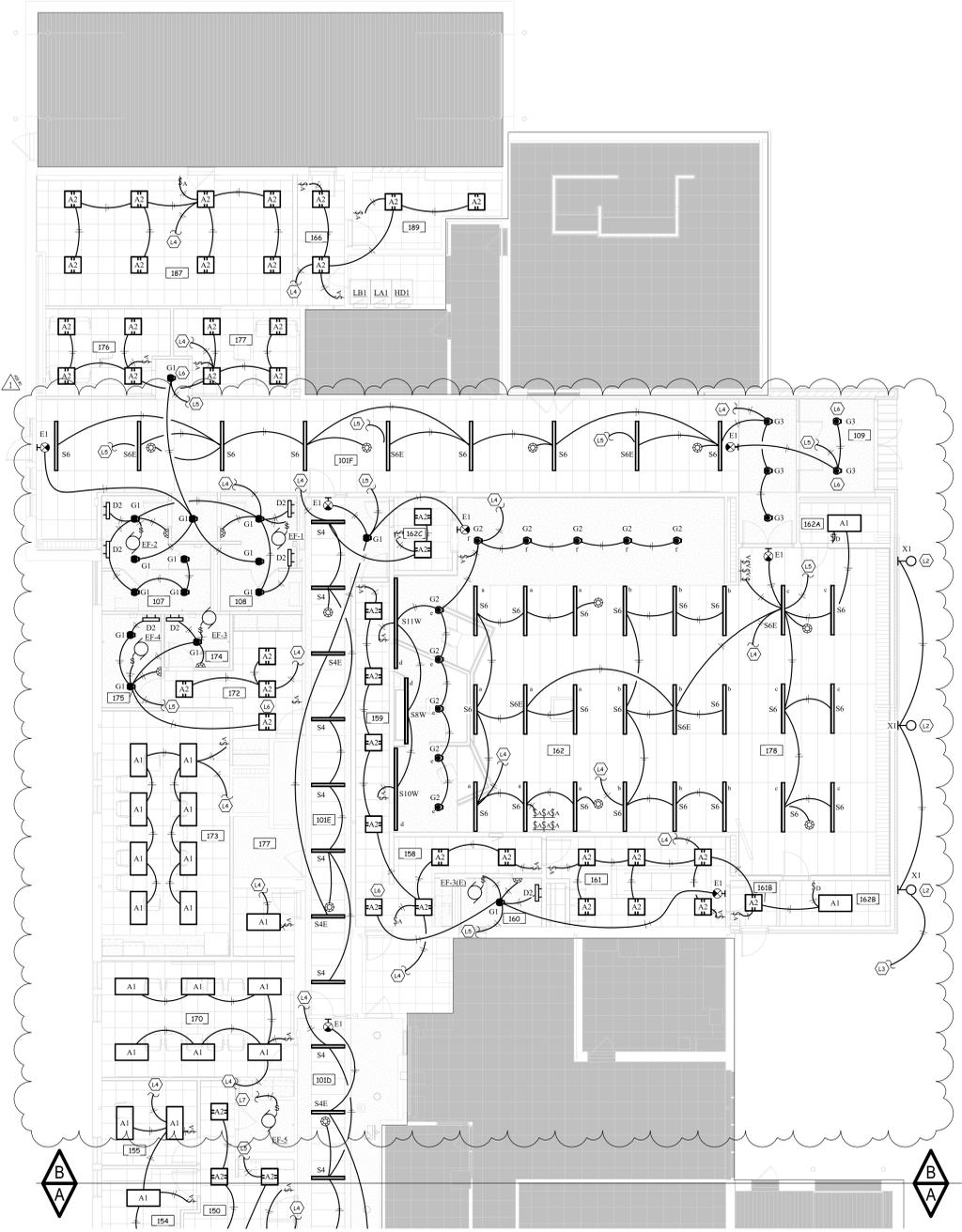
END OF ADDENDUM

Number	Name	Area
100	VESTIBULE	229 SF
101A	MAIN LOBBY	1,820 SF
101B	SOUTH HALL	830 SF
101C	ALCOVE	238 SF
101D	NORTH HALLWAY	883 SF
101E	COURTS HALLWAY	390 SF
101F	COURT LOBBY	1,176 SF
101G	KITCHENETTE	76 SF
107	WOMEN RESTROOM	152 SF
108	MEN RESTROOM	129 SF
109	VESTIBULE	108 SF
131	WORKROOM	244 SF
140	HALLWAY	57 SF
141	FLEX SPACE	127 SF
142	OFFICE	171 SF
143	CONF. RM	117 SF
150	RECEPTION	309 SF
151	WORK AREA	62 SF
152	OFFICE	132 SF
153	WORK ROOM/ FILES	89 SF
154	OFFICE	133 SF
155	OFFICE	117 SF
158	HALLWAY	147 SF
159	HALLWAY	147 SF
160	RESTROOM	57 SF
160A	CLOSET	12 SF
161	JUDGE'S CHAMBER	219 SF
161B	EXIT	30 SF
162	COURTROOM	1,499 SF
162A	STORAGE	53 SF
162B	A.V. STORAGE	73 SF
162C	JURY EXIT	62 SF
166	HALL	90 SF
170	CONFERENCE	343 SF
171	LAUNDRY	60 SF
172	ENTRY	176 SF
173	JURY ROOM	382 SF
174	RESTROOM	50 SF
175	RESTROOM	80 SF
176	MEETING ROOM	148 SF
177	MEETING ROOM	149 SF
177	BASEMENT STAIR	92 SF
178	GALLERY	761 SF
187	MECH OR STORAGE	482 SF
189	HOLDING ROOM	139 SF

Keystone Legend	
L2	REINSTALL EXISTING EXTERIOR LIGHT (X1) AT THIS LOCATION. MOUNT AT THE SAME HEIGHT AS THE ADJACENT EXTERIOR LIGHTING.
L3	CIRCUIT TO EXISTING EXTERIOR LIGHTING CIRCUITRY.
L4	CIRCUIT TO EXISTING UNSWITCHED 120V LIGHTING CIRCUIT IN THIS AREA.
L5	CIRCUIT TO EXISTING EMERGENCY LIGHTING CIRCUIT IN THIS AREA.
L6	UNSWITCHED.
L7	CIRCUIT TO EXISTING RESTROOM LIGHTS.



1
E201
Lighting Plan - First Floor - Area A
1/8" = 1'-0"



2
E201
Lighting Plan - First Floor - Area B
1/8" = 1'-0"



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NO.	DESCRIPTION	DATE
1	Addendum 1	11/11/25

DUNN COUNTY
COURTHOUSE REMODEL
MANNING, ND

DATE
10/21/2025
PHASE
CONSTRUCTION DOCUMENTS
PROJECT
PE 25018
SHEET

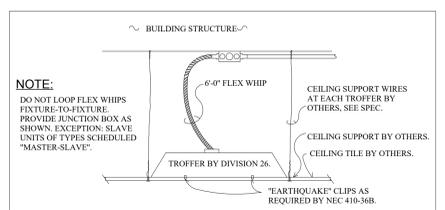
E201
LEVEL 1 LIGHTING PLAN



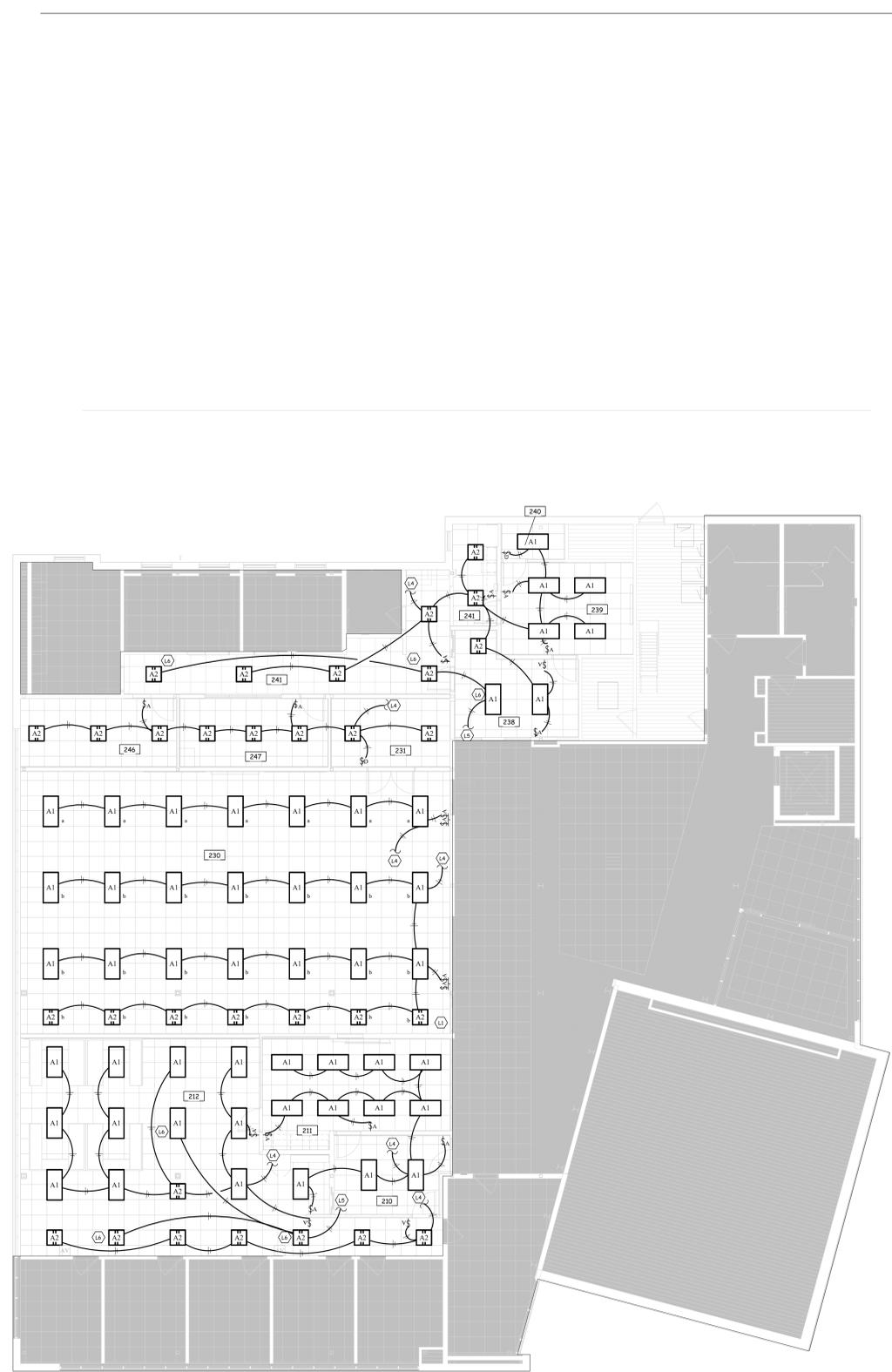
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Keynote Legend

L1	ALL WORK ON THIS LEVEL UNDER ADD UNDER ALTERNATE 1.
L4	CIRCUIT TO EXISTING UNSWITCHED 120V LIGHTING CIRCUIT IN THIS AREA.
L5	CIRCUIT TO EXISTING EMERGENCY LIGHTING CIRCUIT IN THIS AREA.
L6	UNSWITCHED.



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E202
TROFFER INSTALLATION DETAIL
1/8" = 1'-0"



FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG NO.	DELIVERED LUMENS	FINISH	MOUNTING	REMARKS
A1	METALLUX MARK ARCHITECTURAL	24RLN LDF 60 UNV L840 CD 1 WPS WHSPR LCTR SERIES	6,000	WHITE	SD 2/E202	2' X 4' LED ARCHITECTURAL TROFFER WITH WIRELESS CONTROLLED DIMMING, OCCUPANCY SENSOR, AND PHOTOCELL. 4000K.
A2	METALLUX MARK ARCHITECTURAL	22RLN LDF 44 UNV L840 CD 1 WPS WHSPR LCTR SERIES	4,400	WHITE	SD 2/E202	2' X 2' LED ARCHITECTURAL TROFFER WITH WIRELESS CONTROLLED DIMMING, OCCUPANCY SENSOR, AND PHOTOCELL. 4000K.
D2	FAIL SAFE LUMINAIRE LED	HVSL4 2 LDF 2 L0 40 UNV O EDC1 BK SPC4 SERIES	2,000	BLACK	WALL MOUNTED	2' LED WALL BRACKET WITH OPAL LENS, AND VERTICAL TRIM BARS. 4000K.
E1	MULE LIGHTING EVENLITE	U-PVT-A-BA TELESSIS TEXAZ SERIES	INTEGRAL LEDS	BRUSHED ALUMINUM	NOTE 1	UNIVERSAL FACE AND MOUNT LED EXIT WITH GREEN LETTERS.
G1	HALO COMMERCIAL LITHONIA	HC6 20 D010 HM6 0525 840 H1 WD H LDN6 SERIES	2,000	SEMI-SPECULAR SILVER	RECESSED CEILING	6" LED DOWNLIGHT WITH WIDE DISTRIBUTION. 4000K.
G2	HALO COMMERCIAL LITHONIA	HCSQ6 30 D010 WPN HM6 3840 840 61SQ H1 LDN680 SERIES	3,000	SEMI-SPECULAR SILVER	SURFACE CEILING	6" LED SQUARE DOWNLIGHT WITH WIRELESS CONTROLS. 4000K.
S4	NEORAY MARK ARCHITECTURAL	S124DR-S1020D840-FTG6FO-1- U-DD-F-W-WPN SLOT 4 SERIES	1,000/FT	WHITE	RECESSED CEILING	4" WIDE LINEAR LED WITH WIRELESS CONTROLS. 4000K.
S4E	NEORAY MARK ARCHITECTURAL	S124DR-S1020D840-FTG6FO-1- T-U-DD-F-W-WPN SLOT 4 SERIES	1,000/FT	WHITE	RECESSED CEILING	SAME AS S4 EXCEPT GENERATOR TRANSFER DEVICE.
S6	NEORAY MARK ARCHITECTURAL	S124DR-S1020D840-FTG6FO-1- U-DD-F-W-WPN SLOT 4 SERIES	1,000/FT	WHITE	RECESSED CEILING	4" WIDE LINEAR LED WITH WIRELESS CONTROLS. 4000K.
S6E	NEORAY MARK ARCHITECTURAL	S124DR-S1020D840-FTG6FO-1- T-U-DD-F-W-WPN SLOT 4 SERIES	1,000/FT	WHITE	RECESSED CEILING	SAME AS S6 EXCEPT GENERATOR TRANSFER DEVICE.
S8W	NEORAY MARK ARCHITECTURAL	S122DR-S48SD840-GYP8FO-1- U-DD-W-W-WPN SLOT 2 SERIES	500/FT	WHITE	RECESSED CEILING	4" WIDE LINEAR LED WALL WASH WITH WIRELESS CONTROLS. 4000K.
S10W	NEORAY MARK ARCHITECTURAL	S122DR-S48SD840- GYP10FO-1-U-DD-W-W-WPN SLOT 2 SERIES	500/FT	WHITE	RECESSED CEILING	SAME AS S8W EXCEPT 10 FOOT
S11W	NEORAY MARK ARCHITECTURAL	S122DR-S48SD840- GYP11FO-1-U-DD-W-W-WPN SLOT 2 SERIES	500/FT	WHITE	RECESSED CEILING	SAME AS S8W EXCEPT 11 FOOT
X1	EXISTING	LED AREA LIGHT	-	-	WALL MOUNT NOTE 2	EXISTING WEDGE AREA LIGHT

NOTES:

- WALL MOUNT DIRECTLY ABOVE EXIT DOOR WHERE POSSIBLE. CEILING OR END MOUNT IN REMAINING LOCATIONS AS DICTATED BY BUILDING CONDITIONS.
- COORDINATE MOUNTING HEIGHT TO ALIGN WITH THE OTHER FIXTURES OF THE SAME TYPE ON THE EXISTING BUILDING.

Room Schedule

Number	Name	Area
210	LOBBY	148 SF
211	CONFERENCE	316 SF
212	COLLABORATION SPACE	729 SF
213	WORKSTATION	75 SF
218	OFFICE	145 SF
225	HALL	275 SF
230	LARGE MEETING ROOM	1,919 SF
231	TABLE/ CHAIR	137 SF
238	LOBBY	186 SF
239	CONFERENCE	208 SF
240	STORAGE	38 SF
241	HUMAN SERVICES	374 SF
243	OFFICE	127 SF
244	OFFICE	149 SF
245	WORKROOM	196 SF
246	OFFICE	181 SF
247	COMFORT ROOM	171 SF

LIGHTING SWITCH SCHEDULE

BASED ON ILLUM AIR PART NUMBERS
(OR EQUAL SYSTEM BY WAVELENGTH)

SYMBOL	DESCRIPTION	PART #
ⓈA	LINE POWERED WALL SWITCH ON/OFF, RAISE/LOWER DIMMING CONTROL	RP00LA-DX
ⓈB	LINE POWERED WALL SWITCH 2-POLE ON/OFF, TWO RAISE/LOWER DIMMING CONTROL	RP00LA-2P-DX
ⓈC	LOW VOLTAGE WALL SWITCH 2-POLE ON/OFF, RAISE/LOWER DIMMING CONTROL AND CCT CONTROL	RP00M6-2P-DX-CCT
ⓈD	LINE POWERED WALL SWITCH ON/OFF	RP00LA
ⓈE	LINE POWERED WALL SWITCH 2-POLE ON/OFF	RP00LA-2P
Ⓢ	WALL MOUNTED OCCUPANCY SENSOR - SEE SPECIFICATION SECTION 262726	
ⓈD	WALL MOUNTED OCCUPANCY SENSOR (TYPE D) WITH DIMMING CONTROL - SEE SPECIFICATION SECTION 262726	
Ⓢ	CEILING MOUNTED OCCUPANCY SENSOR - SEE SPECIFICATION SECTION 262726	

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Lighting Plan - Second Floor - Area A
1/8" = 1'-0"