



ADDENDUM

JLG 24146.01-5 Dunn County Public Safety Center

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. Per drawing C001 Civil Notes and Legends, Civil CAD files will be provided if the attached *CAD File Disclaimer* form is filled out and returned.

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.

SPECIFICATIONS

1. SECTION 09 5426 – SUSPENDED WOOD CEILINGS
 - o Revise paragraph 1.01.A. to read: “Linear Wood Panels” in lieu of “Wood Grilles”.
 - o Revise paragraph 2.02.C. to read: “Linear Wood Panels (WCS-#): Pre-assembled module of wood veneer on fire rated particle board planks.”
2. SECTION 09 8430 – SOUND-ABSORBING WALL AND CEILING UNITS
 - o Clarification: There are no fabric covered acoustical wall panels (SWAP-#) on the project.
 - o Remove paragraph 2.01.B.1. “Prefinished, factory assembled fabric covered panels.”
 - o Remove paragraph 2.01.C. and subparagraphs in its entirety.
 - o Relabel paragraph 2.01.D. to paragraph “B.”
 - o Remove paragraph 2.02.A. in its entirety.

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
09 5100 – Acoustical Ceilings	(ACT-1)	Armstrong Ultima High-NRC #1942	USG Mars High-NRC #87100
09 5100 – Acoustical Ceilings	(WWAP-1), (WWAP-2)	Wood Wool Lay-In Ceiling Panels	Tectum Lay-In Ceiling Panels
09 8400 – Wood Acoustic Wall Panels	(WWAP-3)	Wood Wool Wall Panels	Tectum Wall Panels

DRAWINGS

1. A510 – EXTERIOR DETAILS
 - Drawing 2D: Remove detail “ALT. 08 – FLEX LIGHTING AT PARAPET” from sheet in its entirety.
2. A520 – ROOF DETAILS
 - Replace sheet in its entirety.
 - Drawing 1A: Add detail “ALT. 08 – FLEX LIGHTING AT PARAPET” to sheet in its entirety.
 - Drawing 1A: Added continuous LED flex light behind parapet coping. See electrical for additional details.
3. A801 – BASEMENT FLOOR FFE PLAN
 - Replace sheet in its entirety.
 - Equipment Schedule: schedule was updated with to show responsibilities.
4. A802 – LEVEL 1 FFE PLAN
 - Replace sheet in its entirety.
 - Equipment Schedule: schedule was updated with to show responsibilities.
 - Drawing 7A: Additional equipment tags were added to items that were not tagged yet.
5. A803 – LEVEL 2 FFE PLAN
 - Replace sheet in its entirety.
 - Equipment Schedule: schedule was updated with to show responsibilities.
6. A804 – LEVEL 2 TRAINING ROOM ALTERNATE LAYOUT
 - Replace sheet in its entirety.
 - Equipment Schedule: schedule was updated with to show responsibilities.

ATTACHMENTS

1. Dunn County Question Log
2. Civil CAD File Disclaimer form
3. Architectural drawing sheets: A520, A801, A802, A803, A804
4. Mechanical Addendum
5. 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 REGULAR -CASCADES 6139AM. This will be added via addendum. USG Ceilings Plus Planx Universal is not an approved equal.
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CAD Plan Files Disclaimer and
Limitation of Liability Agreement

Acceptance of the electronic file(s) transmitted herewith indicates your acceptance of the terms and conditions as set forth below.

1. Highlands Engineering and Surveying, PLLC makes no warranty of any kind, express or implied, with respect to the file(s) subject to this agreement, and specifically makes no warranty that said file(s) shall be fit for any particular purpose. Furthermore, any description of said file(s) shall not be deemed to create an express warranty that such file(s) shall conform to said description.
2. Receiver agrees to verify all electronic data.
3. Receiver assumes all risk and liability for any losses, damages, claims or expenses resulting from the use or possession of any file(s) furnished by Highlands Engineering and Surveying, PLLC pursuant to this agreement.
4. Receiver agrees to indemnify, defend and hold harmless to the extent permitted by law Highlands Engineering and Surveying, PLLC, its officers, agents and employees from and against any and all claims, suits, losses, damages and costs, including reasonably attorney's fees, arising from or by reason of receiver's use of possession with respect to any of the file(s) furnished by Highlands Engineering and Surveying, PLLC pursuant to this agreement, and such indemnification shall survive acceptance of said file(s) by receiver.
5. Receiver agrees to accept the file(s) in the format provided. Receiver agrees that Highlands Engineering and Surveying, PLLC cannot be held responsible for problems arising from files which have been converted for use in non-native applications.
6. Since revisions or additions to the design file(s) may occur at any time, the receiver agrees to indemnify, defend and hold harmless to the extent permitted by law Highlands Engineering and Surveying, PLLC, its officers, agents and employees from and against any and all claims, suits, losses, damages or costs, including reasonable attorney's fees, arising from the use of outdated design files, and such indemnification shall survive acceptance of said file(s) by receiver.
7. The electronic data shall not be used by the receiver or transferred to any other person or party for use in any other projects without the written consent of Highlands Engineering and Surveying, PLLC.
8. These terms and conditions constitute the complete and final agreement of the parties hereto.

I accept the aforementioned terms and conditions.

Receiver's Signature

Printed Name

Date

SHEET SPEC ID LIST	
SPEC ID	SPEC SECTION & DESCRIPTION
AIR BAR-3	07 2700 - FLUID-APPLIED VAPOR PERMEABLE MEMBRANE
EPDM-1	07 5300 - BALLASTED EPDM ROOFING SYSTEM
INSUL-26	07 2100 - MINERAL FIBER BOARD INSULATION
RF HATCH-1	07 7200 - ROOF HATCH
SEALANT-1	07 9200 - JOINT SEALANT OR CAULKING WITH OR WITHOUT BACKER ROD
SMF-1	07 6200 - PREFINISHED ALUMINUM
SMF-2	07 6200 - WEATHERING STEEL
WD BLKG	06 1000 - WOOD BLOCKING
WD SHTG-30	06 1000 - 1/2" SHEATHING
WD SHTG-30F	06 1000 - 1/2" SHEATHING, FIRE RETARDANT TREATED

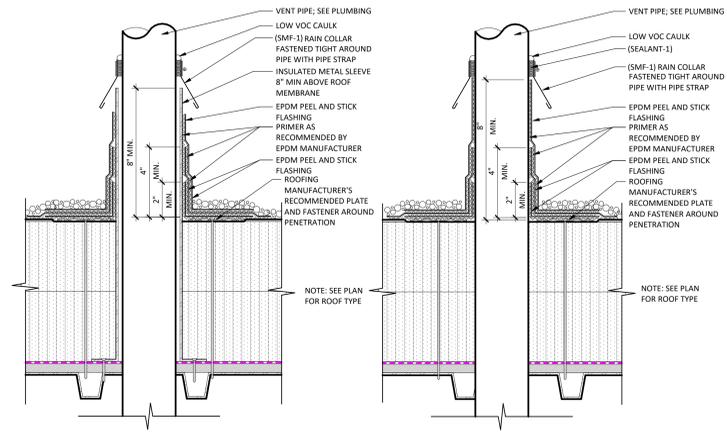
MEMBRANE LINETYPE LEGEND

- UNDERSLAB VAPOR RETARDER (VPR RET-4) [Dashed Blue Line]
- VAPOR BARRIER - WALL (VPR RET-10) [Dashed Green Line]
- VAPOR BARRIER - ROOF (VPR RET-5) [Dashed Purple Line]
- WATERPROOFING (WTR PRF-1) [Dashed Orange Line]

JLG architects

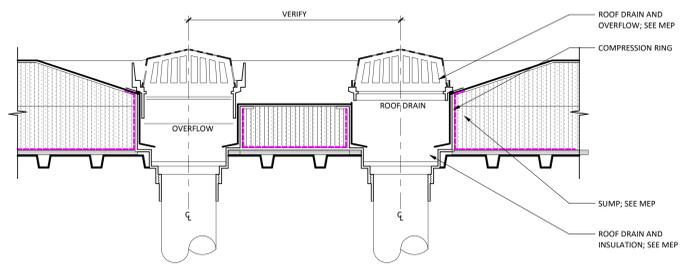
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REVISION SCHEDULE		
NO.	DESCRIPTION	DATE
1	ADDENDUM #1	11/04/25

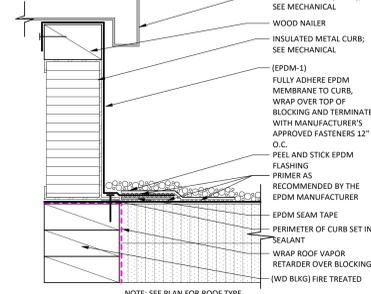


3D A520 HOT VENT PIPE PENETRATION W/ FIELD FABRICATED FLASHING
SCALE: 3" = 1'-0"

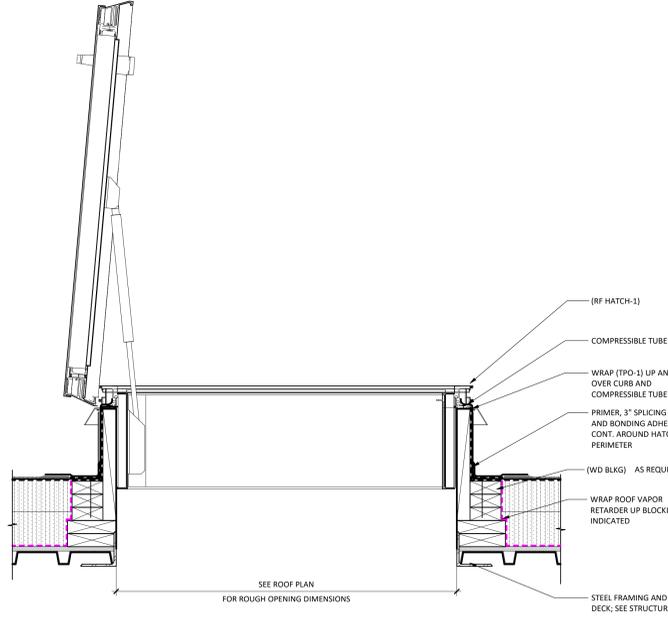
2D A520 VENT PIPE PENETRATION W/ FIELD FABRICATED FLASHING
SCALE: 3" = 1'-0"



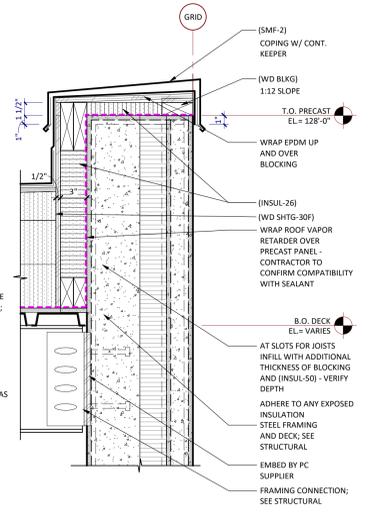
4C A520 ROOF DRAIN DETAIL
SCALE: 1 1/2" = 1'-0"



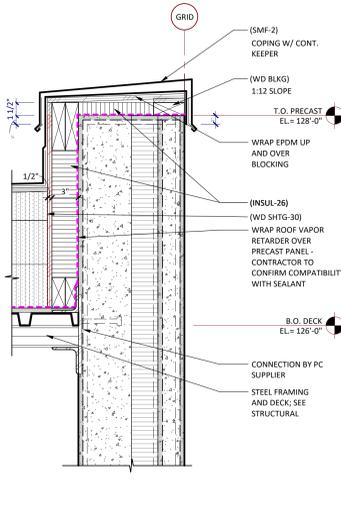
2C A520 INSULATED METAL CURB FLASHING
SCALE: 3" = 1'-0"



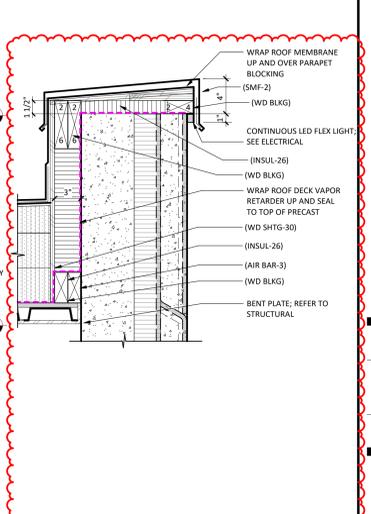
5A A520 ROOF HATCH DETAIL
SCALE: 1 1/2" = 1'-0"



3A A520 PC1.12 - PARAPET DETAIL AT BEAM
SCALE: 1 1/2" = 1'-0"



2A A520 PC1.12 - PARAPET DETAIL AT JOIST
SCALE: 1 1/2" = 1'-0"



1A A520 ALT. 08 - FLEX LIGHTING AT PARAPET
SCALE: 1 1/2" = 1'-0"

11/4/2025 11:25:16 AM

DUNN COUNTY PUBLIC SAFETY CENTER MANNING, ND

DATE: 10/21/2025
PHASE: CONSTRUCTION DOCUMENTS
PROJECT: 24146.01
SHEET: A520
ROOF DETAILS

GENERAL NOTES - EQUIPMENT PLAN

- **ME** - EQUIPMENT TAG - REFER TO SPECIALTY EQUIPMENT SCHEDULE ON THIS SHEET FOR SPECIFIC INFORMATION AND PROVIDER
- A. FURNITURE FOR REFERENCE ONLY.
- B. REFER TO REFLECTED CEILING PLANS FOR EQUIPMENT MOUNTED TO/THROUGH CEILING.
- C. REFER TO INTERIOR ELEVATIONS FOR EQUIPMENT MOUNTED ON WALLS AND INDICATED IN ELEVATION.
- D. PROVIDE WALL REINFORCEMENT AS FOLLOWS: PROVIDE WOOD BLOCKING PER DETAIL 202/AL-2004 FOR THE FOLLOWING ITEMS: HAND RAIS, GRAB BARS, AND DOOR STOPS. PROVIDE METAL BLOCKING/STRAPPING FOR ALL OTHER ITEMS NOT LISTED ABOVE.

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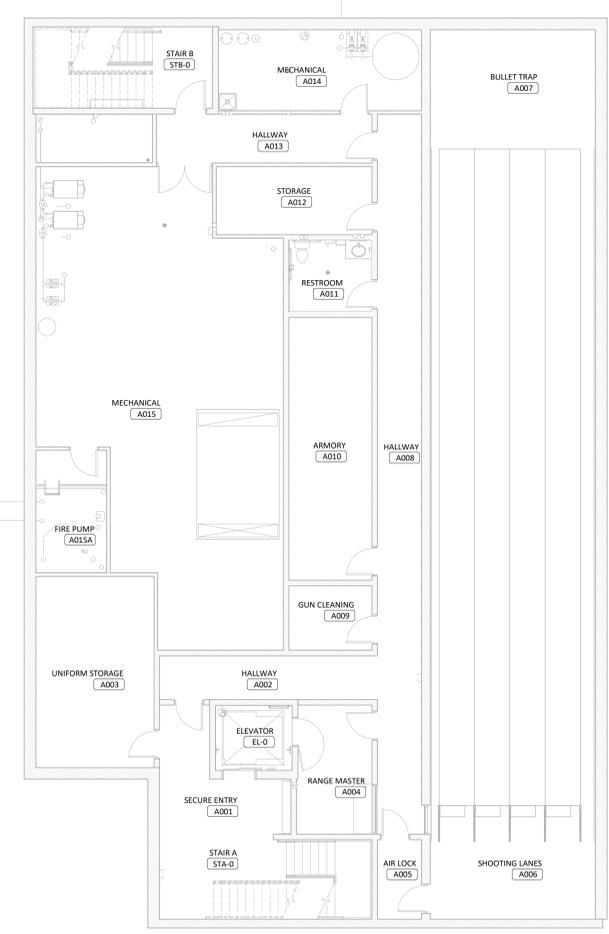


REVISION SCHEDULE

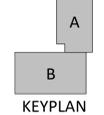
NO.	DESCRIPTION	DATE
1	ADDENDUM #1	11/04/25

EQUIPMENT SCHEDULE

MARK	DESCRIPTION	RESPONSIBILITY			REMARKS	ROOM INFO	
		CF/CI	OF/CI	OF/OI		NAME	
01	RANGE			■			BREAK ROOM
02	DISHWASHER - ADA HEIGHT			■			BREAK ROOM
03	REFRIGERATOR 36" W X 30" D X 72" H			■			<varies>
04	REFRIGERATOR 33" W X 30" D X 70" H			■			BREAK ROOM
05	REFRIGERATOR - UNDER COUNTER 24" W			■			<varies>
06	RANGE HOOD - 30" X 6"			■			BREAK ROOM
07	SHARPS CONTAINER			■			<varies>
08	MICROWAVE - ABOVE RANGE			■			BREAK ROOM
09	MICROWAVE - BELOW COUNTER			■			<varies>
10	ICE DISPENSER			■			LAUNDRY
11	TELEVISION - 65" & BRACKET			■			<varies>
12	TELEVISION - 75" & BRACKET			■			TRAINING ROOM / EDC
13	DRYER			■			LAUNDRY
14	WASHER			■			LAUNDRY
15	LOCKER			■			EVIDENCE PROCESSING
16	LOCKER			■			EVIDENCE PROCESSING
17	LOCKER			■			EVIDENCE PROCESSING
18	LOCKER			■			EVIDENCE STORAGE
19	LOCKER			■			EVIDENCE STORAGE
20	LOCKER			■			EVIDENCE STORAGE
21	LOCKABLE CABINET 2' D X 2'6" W X 5' H			■			EVIDENCE STORAGE
22	LOCKER BIN 1'6" D X 1'6" W X 2'8" H			■			EVIDENCE PROCESSING
23	VACCINE FRIDGE 27" D X 3' W X 67" H			■			WORKROOM
50	VIC PATROL CAR 17' D X 7'4" W X 5' H			■			SHERIFF'S DEPARTMENT VEHICLES
51	VIC TRAILER 26' D X 9' W X 9' H			■			SHERIFF'S DEPARTMENT VEHICLES
52	VIC EM 34' D X 8' W X 8' H			■			EM BAY
53	VIC TRAILER 26' D X 9' W X 6' H			■			RAPID DEPLOYMENT
54	VIC UTILITY 10' D X 5' W X 5' H			■			RAPID DEPLOYMENT
55	VIC TRAILER 14' D X 5' W X 6' H			■			RAPID DEPLOYMENT
56	VIC 4 WHEELER 6'11" D X 3'11" W X 3' H			■			RAPID DEPLOYMENT
57	VIC RESCUE BOAT 38' D X 10' W X 13' H			■			RAPID DEPLOYMENT
58	VIC FIRE TRUCK 28' D X 8'5" W X 9' H			■			FIRE EQUIPMENT BAY
59	VIC FIRE TRUCK 32' D X 8'5" W X 10' H			■			FIRE EQUIPMENT BAY
60	LOCKER 2' D X 2' W X 6'9" H			■			FIRE EQUIPMENT BAY
61	ICE CHEST 2' D X 4'6" W X 2'9" H			■			RAPID DEPLOYMENT



7A
A801 BASEMENT FLOOR PLAN
SCALE: 1/8" = 1'-0"



DUNN COUNTY
PUBLIC SAFETY CENTER
MANNING, ND

DATE: 10/21/2025
PHASE: CONSTRUCTION DOCUMENTS
PROJECT: 24146.01
SHEET: **A801**
BASEMENT FLOOR FFE PLAN

11/4/2025 1:28:55 PM

GENERAL NOTES - EQUIPMENT PLAN

- **MEP** - EQUIPMENT TAG - REFER TO SPECIALTY EQUIPMENT SCHEDULE ON THIS SHEET FOR SPECIFIC INFORMATION AND PROVIDER
- A. FURNITURE FOR REFERENCE ONLY.
- B. REFER TO REFLECTED CEILING PLANS FOR EQUIPMENT MOUNTED TO/THROUGH CEILING.
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- D. PROVIDE WALL REINFORCEMENT AS FOLLOWS: PROVIDE WOOD BLOCKING PER DETAIL 202/AL-XXX FOR THE FOLLOWING ITEMS: HAND RAILS, GRAB BARS, AND DOOR STOPS. PROVIDE METAL BLOCKING/STRAPPING FOR ALL OTHER ITEMS NOT LISTED ABOVE.

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architects

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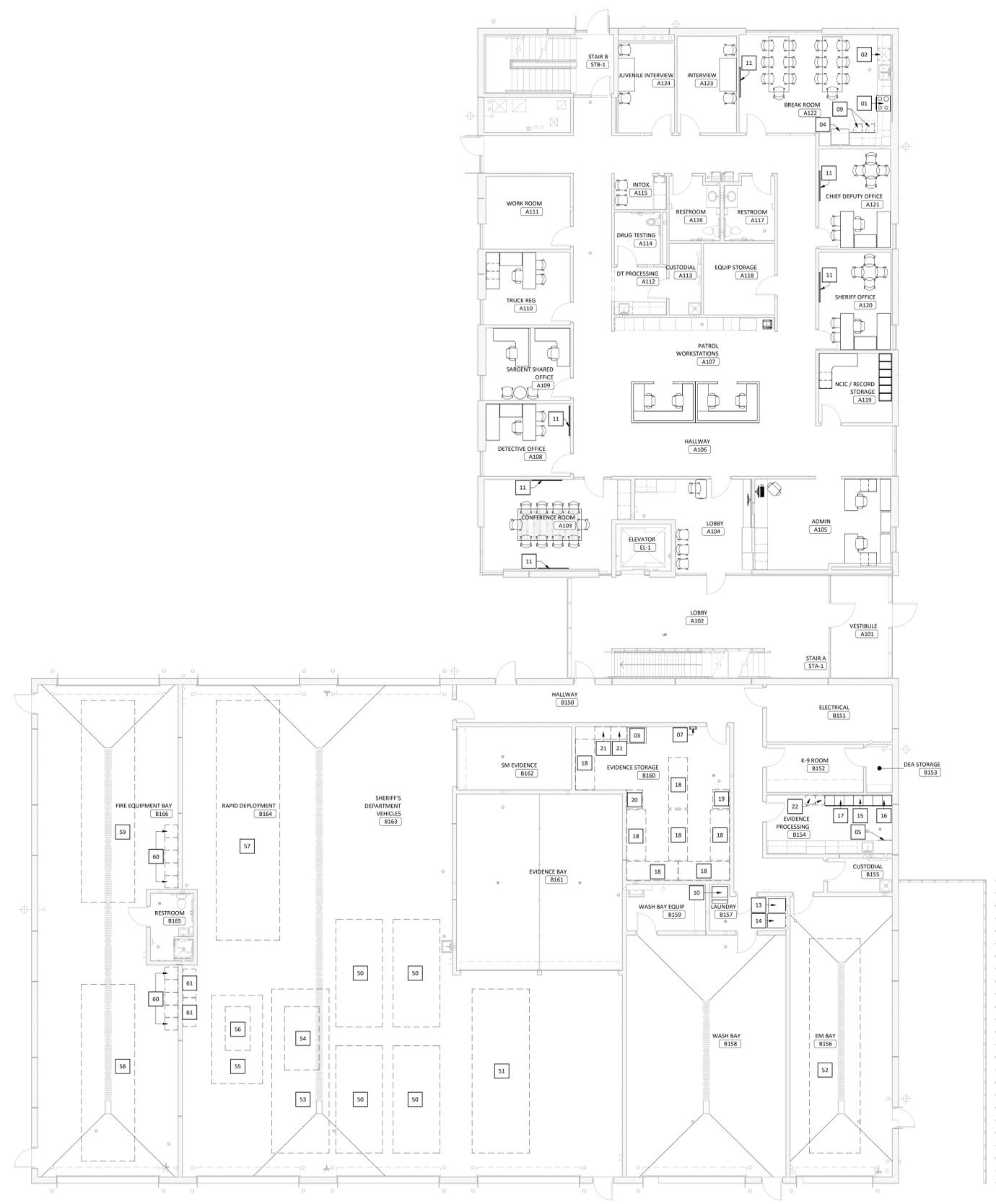


REVISION SCHEDULE

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

EQUIPMENT SCHEDULE

MARK	DESCRIPTION	RESPONSIBILITY			REMARKS	ROOM INFO NAME
		CF/CI	OF/CI	OF/OI		
01	RANGE			■		BREAK ROOM
02	DISHWASHER - ADA HEIGHT			■		BREAK ROOM
03	REFRIGERATOR 36" W X 30" D X 72" H			■		<varies>
04	REFRIGERATOR 33" W X 30" D X 70" H			■		BREAK ROOM
05	REFRIGERATOR - UNDER COUNTER 24" W			■		<varies>
06	RANGE HOOD - 30" X 6"			■		BREAK ROOM
07	SHARPS CONTAINER			■		<varies>
08	MICROWAVE - ABOVE RANGE			■		BREAK ROOM
09	MICROWAVE - BELOW COUNTER			■		<varies>
10	ICE DISPENSER			■		LAUNDRY
11	TELEVISION - 65" & BRACKET			■		<varies>
12	TELEVISION - 75" & BRACKET			■		TRAINING ROOM / EDC
13	DRYER			■		LAUNDRY
14	WASHER			■		LAUNDRY
15	LOCKER			■		EVIDENCE PROCESSING
16	LOCKER			■		EVIDENCE PROCESSING
17	LOCKER			■		EVIDENCE PROCESSING
18	SHELVING 3' D X 8' W X 72" H			■		EVIDENCE STORAGE
19	FLAMMABLE CABINET 27" D X 3' W X 5' H			■		EVIDENCE STORAGE
20	GUN SAFE 25" D X 3' W X 37" H			■		EVIDENCE STORAGE
21	LOCKABLE CABINET 2' D X 2'6" W X 5' H			■		EVIDENCE STORAGE
22	LOCKER BIN 1'6" D X 1'6" W X 2'8" H			■		EVIDENCE PROCESSING
23	VACCINE FRIDGE 27" D X 3' W X 67" H			■		WORKROOM
50	VIC PATROL CAR 17' D X 7'4" W X 5' H			■		SHERIFF'S DEPARTMENT VEHICLES
51	VIC TRAILER 26' D X 9' W X 9' H			■		SHERIFF'S DEPARTMENT VEHICLES
52	VIC EM 34' D X 8' W X 8' H			■		EM BAY
53	VIC TRAILER 26' D X 9' W X 6' H			■		RAPID DEPLOYMENT
54	VIC UTILITY 10' D X 8'5" W X 5' H			■		RAPID DEPLOYMENT
55	VIC TRAILER 14' D X 8' W X 6' H			■		RAPID DEPLOYMENT
56	VIC 4 WHEELER 6'11" D X 3'11" W X 3' H			■		RAPID DEPLOYMENT
57	VIC RESCUE BOAT 38' D X 10' W X 13' H			■		RAPID DEPLOYMENT
58	VIC FIRE TRUCK 28' D X 8'5" W X 9' H			■		FIRE EQUIPMENT BAY
59	VIC FIRE TRUCK 32' D X 8'5" W X 10' H			■		FIRE EQUIPMENT BAY
60	LOCKER 2' D X 2' W X 6'9" H			■		FIRE EQUIPMENT BAY
61	ICE CHEST 2' D X 4'6" W X 2'9" H			■		RAPID DEPLOYMENT



7A
A802 FFE PLAN - LEVEL 1
SCALE: 1/8" = 1'-0"

DUNN COUNTY
PUBLIC SAFETY CENTER
MANNING, ND

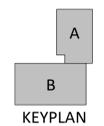
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CONSTRUCTION DOCUMENTS

PROJECT
24146.01

SHEET
A802

LEVEL 1 FFE PLAN



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GENERAL NOTES - EQUIPMENT PLAN

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- A. FURNITURE FOR REFERENCE ONLY.
- B. REFER TO REFLECTED CEILING PLANS FOR EQUIPMENT MOUNTED TO/THROUGH CEILING.
- C. REFER TO INTERIOR ELEVATIONS FOR EQUIPMENT MOUNTED ON WALLS AND INDICATED IN ELEVATION.
- D. PROVIDE WALL REINFORCEMENT AS FOLLOWS: PROVIDE WOOD BLOCKING PER DETAIL 202/A/XXX FOR THE FOLLOWING ITEMS: HAND RAIS, GRAB BARS, AND DOOR STOPS. PROVIDE METAL BLOCKING/STRAPPING FOR ALL OTHER ITEMS NOT LISTED ABOVE.

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Bismarck, ND 58501
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REVISION SCHEDULE

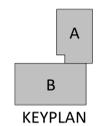
NO.	DESCRIPTION	DATE
1	ADDENDUM #1	11/04/25

EQUIPMENT SCHEDULE

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08	MICROWAVE - ABOVE RANGE			■		BREAK ROOM
09	MICROWAVE - BELOW COUNTER			■		<varies>
10	ICE DISPENSER			■		LAUNDRY
11	TELEVISION - 65" & BRACKET			■		<varies>
12	TELEVISION - 75" & BRACKET			■		TRAINING ROOM / EDC
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17	LOCKER			■		EVIDENCE PROCESSING
18	LOCKER			■		EVIDENCE PROCESSING
19	LOCKER			■		EVIDENCE PROCESSING
20	LOCKER			■		EVIDENCE PROCESSING
21	LOCKER			■		EVIDENCE PROCESSING
22	LOCKER			■		EVIDENCE PROCESSING
23	LOCKER			■		WORKROOM
24	LOCKER			■		WORKROOM
25	LOCKER			■		WORKROOM
26	LOCKER			■		WORKROOM
27	LOCKER			■		WORKROOM
28	LOCKER			■		WORKROOM
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60	LOCKER			■		WORKROOM
61	LOCKER			■		WORKROOM



7A SECOND FLOOR PLAN
A803 SCALE: 1/8" = 1'-0"



DUNN COUNTY
PUBLIC SAFETY CENTER
MANNING, ND

DATE: 10/21/2025
PHASE: CONSTRUCTION DOCUMENTS
PROJECT: 24146.01
SHEET: **A803**
LEVEL 2 FFE PLAN

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GENERAL NOTES - EQUIPMENT PLAN

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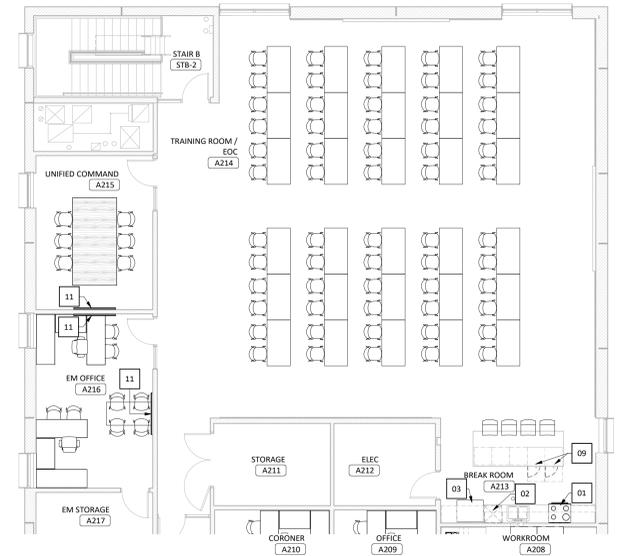


REVISION SCHEDULE

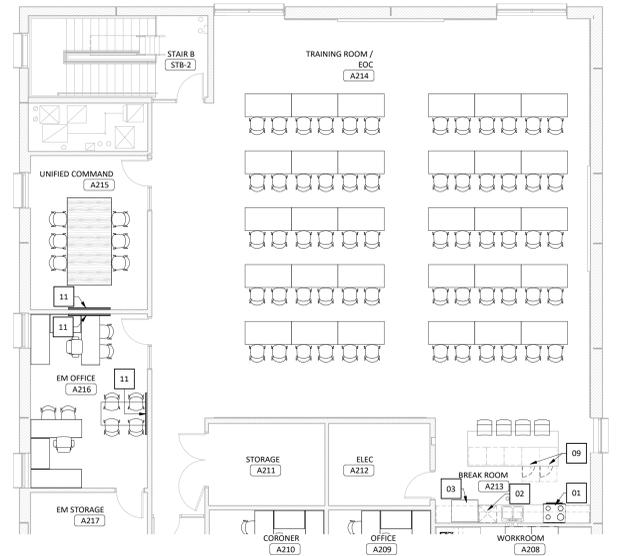
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EQUIPMENT SCHEDULE

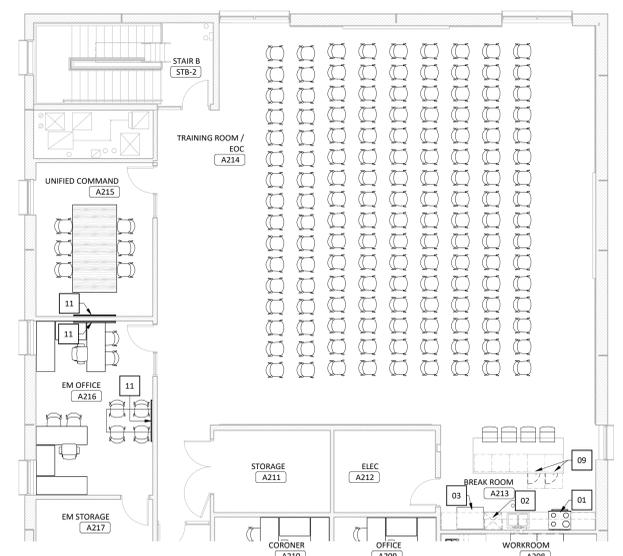
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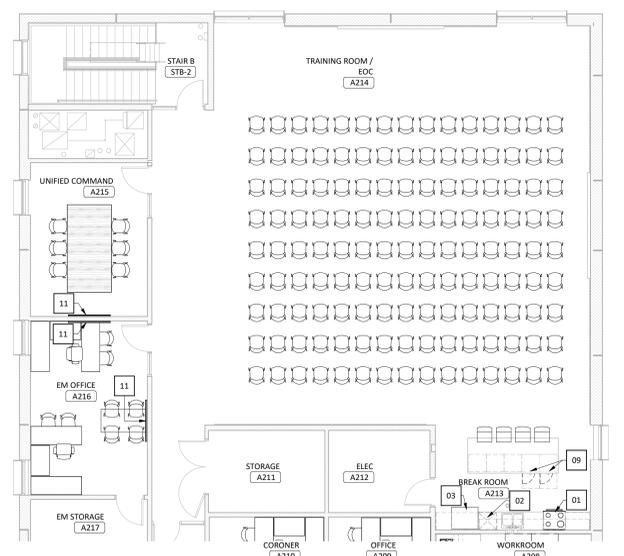
5C
A804 SCALE: 1/8" = 1'-0"



2C
A804 SCALE: 1/8" = 1'-0"



5A
A804 SCALE: 1/8" = 1'-0"



2A
A804 SCALE: 1/8" = 1'-0"

DUNN COUNTY
PUBLIC SAFETY CENTER
MANNING, ND

DATE: 10/21/2025
PHASE: CONSTRUCTION DOCUMENTS
PROJECT: 24146.01
SHEET: **A804**
LEVEL 2 TRAINING ROOM ALTERNATE LAYOUT

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ADDENDUM

JLG 24146.01-5 Dunn County Public Safety Center

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.

SPECIFICATIONS

- 1. SECTION 23 8200 – Convection Heating and Cooling Units
 - o Added section for hydronic unit heaters

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 7313 – Modular Central Station Air Handling Units	AH-1	Daikin	VTS
23 2114 – 2.1 - Expansion Tanks	ET-1,2	Amtrol	Grundfos
23 2114 – 2.3 – Air & Dirt Separators	N/A	Spirovent	Grundfos, Caleffi
Boiler Venting	N/A	N/A	Schebler
23 7413 – Packaged Outdoor Central Station AHUs	RTU-1	AAON	Valent
23 7223 – ERV: Energy Recovery Ventilation	ERV-1, 2	Renew Aire	Aldes
23 7416 – Packaged Rooftop Air Conditioning Units	RTU – 1, 2, 3, 4	AAON	Greenheck

DRAWINGS

- 1. M101 – PLUMBING PLANS
 - o Note 6: Provide 1" water to irrigation in lieu of 1-1/2".
 - o 1/M101:
 - Reconfigured layout for fire pump pit/room.
 - o 3/M101:
 - 1" water service in lieu of 2".
 - Pipe water service to storage tank. Pipe building water from tank to pump.

2. M102 – PLUMBING PLANS
 - Note 11:
 - Reworded note to remove aluminum requirement
 - 1/M102:
 - Changed break room sink to two compartments.
 - Increased pipe size for main air trunk from air compressor to 2"
 - Reconfigured and resized water from pressure washer
 - Added tag for well water supplying pressure washer
 - Modified tags for air drops to better indicate pipe type.
 - 2/M102:
 - Added keynote for air drop in wash bay
 - Resized primary air pipe lines
3. M201 – MECHANICAL PLANS
 - Added Keynote Legend
 - 1/M201:
 - Added hydronic unit heaters UH-6, 7, 8 and hydronic piping to each.
 - 2/M201:
 - Moved propane piping to come up outside of the building.
 - Reconfigured propane piping to run inside duct chase from roof instead of across the first floor
4. M203 – MECHANICAL PLANS
 - 1/M203:
 - Added hydronic unit heaters UH-6, 7, 8 and hydronic piping to each.
5. M204 – MECHANICAL PLANS
 - Added keynote legend
 - 1/M204:
 - Moved propane piping to come up outside of the building.
 - Reconfigured propane piping to run inside duct chase from roof instead of across the first floor
 - 2/M204:
 - Resized propane pipe from ½" to ¾"
6. M301 – MECHANICAL PLANS
 - Drawing 1/M301 HVAC Plan – Basement
 - Provide perforated panel for supply air in shooting range.
 - Provide return grilles for return air in shooting range.
 - Omitted transfer ducts and grilles.
 - Drawing 2/M301
 - Added grilles R5 connecting to ERV-1
 - Added supply grilles S16 with balancing dampers to ERV-1
 - Added Drawing 3/M301 Shooting Lane Section.
7. M302 – MECHANICAL PLANS
 - Added keynotes 6, 7, 8, and 9.
 - DRAWING 1/M302:
 - Added exhaust and venting for unit heaters and infrared heaters
 - Drawing 2/M302:
 - Added exhaust and venting for unit heaters and infrared heaters
 - Added notes for boiler combustion and fresh air.
 - Resized propane piping to MAU-1 and RTUs 3 and 4.
 - Reconfigured propane piping to run in duct chase
8. M401 – MECHANICAL DETAILS
 - Drawing 9/M401: Omit water meter. Will be installed by others in exterior meter pit. Utility pipe shall be 1" in lieu of 2".
9. M405 – MECHANICAL SCHEDULES
 - Added Unit Heater – Hydronic schedule
10. M501 – FIRE PLAN
 - Drawing 1/M501: Reconfigured fire pump pit.

SECTION 23 8200 - CONVECTION HEATING AND COOLING UNITS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Hydronic or steam convectors.
- B. Hydronic or steam unit heaters.
- C. Hydronic or steam cabinet unit heaters.
- D. Fan-coil units.
- E. 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. AHRI 440 - Performance Rating of Room Fan-Coils; 2008.
- C. NFPA 70 - National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
- D. NFPA 90A - Standard for the Installation of Air-Conditioning and Ventilating Systems; 2024.
- E. 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.
- 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.

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 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. Reznor HVAC; www.reznorhvac.com/all-products/unit-heaters/#sle
 - 4. Sigma Convector Enclosure Corp.; www.sigmaproducts.com/#sle
 - 5. Sterling Hydronics, a Mestek Company: www.sterlingheat.com/#sle.
 - 6. Trane Technologies, PLC: www.trane.com/#sle.
 - 7. Vulcan Radiator, a Mestek Company: www.vulcanrad.com/#sle.
 - 8. Substitutions: See Section 23 0500 - HVAC General Provisions.
- B. Coils: Seamless copper tubing, silver brazed to steel headers, and with evenly spaced aluminum fins mechanically bonded to tubing.
- C. Perform factory run test under normal operating conditions, water, and steam flow rates.
- D. Casing: Minimum 18 gauge, 0.0478 inch thick sheet steel casing with threaded pipe connections for hanger rods for horizontal models and minimum 18 gauge, 0.0478 inch thick sheet steel top and bottom plates for vertical projection models.
- E. Finish: Factory applied baked enamel of color.
- F. Fan: Direct drive propeller type, statically and dynamically balanced, with fan guard; horizontal models with permanently lubricated sleeve bearings; vertical models with grease lubricated ball bearings.
- G. Air Outlet: Adjustable pattern diffuser on vertical projection models and two- or four- way louvers on horizontal projection models.
- H. Electrical Characteristics: Factory wire motors and controls for a single field connection.

2.03 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.

2.04 FAN-COIL UNITS

- A. Manufacturers:
 - 1. Carrier Corporation: www.commercial.carrier.com/#sle.
 - 2. Daikin Applied: www.daikinapplied.com/#sle.
 - 3. Krueger-HVAC: www.krueger-hvac.com/#sle.
 - 4. Superior Rex; www.superiorrex.com/products/#sle
 - 5. Trane Technologies, PLC: www.trane.com/#sle.
 - 6. Substitutions: See Section 23 0500 - HVAC General Provisions.
- B. Performance Data and Safety Requirements:
 - 1. Unit capacities certified in accordance with AHRI 440.
 - 2. Provide products listed, classified, and labeled by Underwriters Laboratories Inc. (UL), Intertek (ETL), or testing firm acceptable to authority having jurisdiction as suitable for purpose indicated.
 - 3. Insulation to comply with NFPA 90A requirements for flame spread and smoke generation.
 - 4. Equipment wiring to comply with requirements of NFPA 70.
- C. Coils:
 - 1. Evenly spaced aluminum fins mechanically bonded to copper tubes.
 - 2. Water Coil: Suitable for working temperatures not less than 200 degrees F.
- D. Horizontal Recessed Units:
 - 1. Ducted Units: Provide with air inlet and outlet duct collars.

- 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, or ECM, resiliently mounted.
- H. Controls:
 - 1. Controls Interface:
 - a. Relay board.
 - b. 24-volt transformer.
- 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.

2.05 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.

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. Coordinate to ensure correct recess size for recessed convectors.
- D. Unit Heaters:

1. Hang from building structure, with pipe hangers anchored to building, not from piping or electrical conduit.
- E. Cabinet Unit Heaters:
1. Coordinate to ensure correct recess size for recessed units.
- F. Fan-Coil Units:
1. Coordinate to ensure correct recess size for recessed units.
- G. 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.
- H. 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.

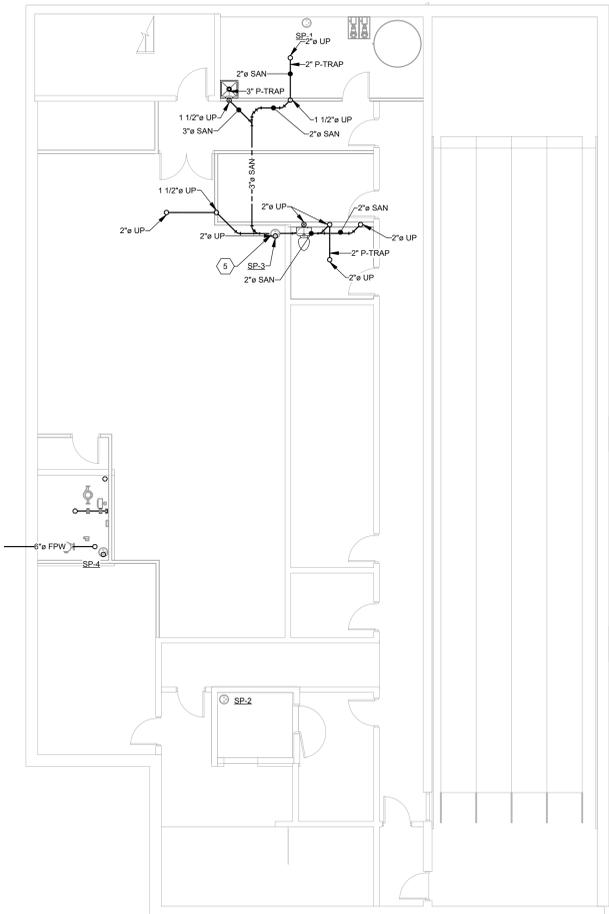
3.06 PROTECTION

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

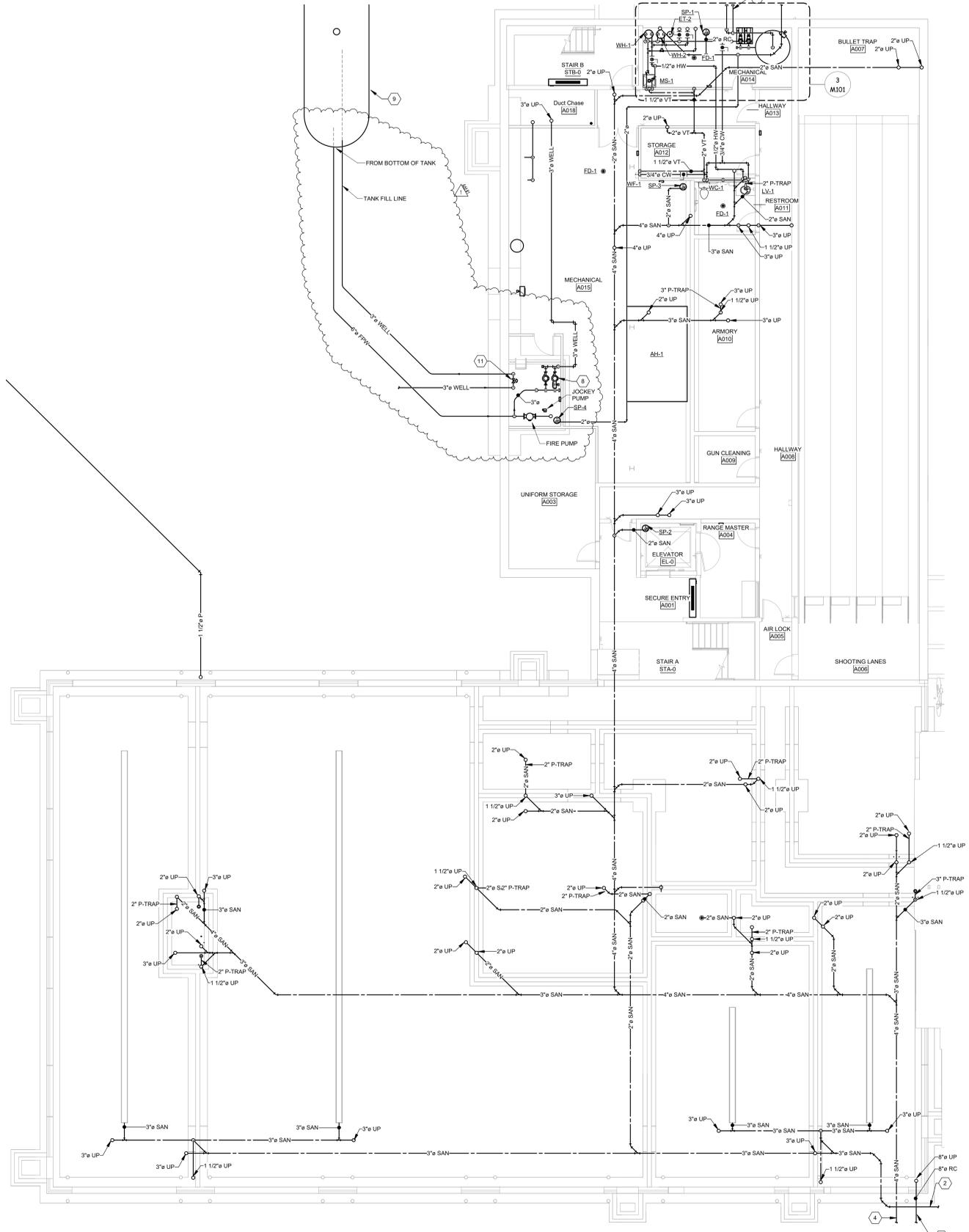
END OF SECTION

PLUMBING FIXTURE CONNECTIONS			
FIXTURE	WASTE	VENT	SUPPLY
WATER CLOSETS (TANK)	3"	2"	1/2"
WATER CLOSETS (FLUSH VALVE)	3"	2"	1"
URINALS	2"	1-1/2"	3/4"
LAVATORIES (SINGLE)	1-1/2"	1-1/2"	1/2"
LAVATORIES (MULTI-STATION)	2"	1-1/2"	3/4"
SINKS	2"	1-1/2"	1/2"
SERVICE/MOP SINKS	3"	1-1/2"	3/4"
HOSE BIBBS/WALL FAUCETS	N/A	N/A	3/4"
ELECTRIC WATER COOLERS	1-1/2"	1-1/2"	1/2"
SHOWER	2"	1-1/2"	1/2"
BATH OR BATH/SHOWER	2"	1-1/2"	1/2"
EMERGENCY EYE/FACE WASH	2"	1-1/2"	1-1/4"

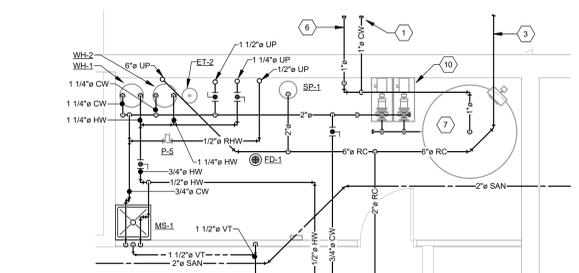
- KEYNOTE LEGEND**
- M.C. SHALL CONNECT TO DOMESTIC WATER LINE 5 FT OUTSIDE OF THE BUILDING AT MIN. 8 FT BFG. COORDINATE FINAL LOCATION AND INVERT WITH G.C.
 - SHOP TRENCH AND FLOOR DRAINS TO HOLDING TANK. COORDINATE FINAL LOCATION AND INVERT WITH G.C.
 - M.C. SHALL CONNECT TO STORM DRAIN LINE 5 FT OUTSIDE OF THE BUILDING. COORDINATE FINAL LOCATION AND INVERT WITH G.C.
 - M.C. SHALL CONNECT TO UNDERGROUND WASTE LINE 5 FT OUTSIDE OF THE BUILDING. COORDINATE FINAL LOCATION AND INVERT WITH G.C.
 - M.C. SHALL PROVIDE DUPLEX SEWAGE EJECTOR PUMP SYSTEM. FIELD VERIFY FINAL SUMP AND INLET PIPING INVERTS TO PROVIDE SUFFICIENT STORAGE. LOCATE CONTROL PANELS ON WALL NEAR UNIT. SEE SEWAGE EJECTOR DETAIL FOR MORE INFORMATION.
 - PROVIDE 1" IRRIGATION CONNECTION FROM MECHANICAL ROOM. PROVIDE DRAIN VALVE IN MECHANICAL ROOM.
 - PROVIDE 1,000 GALLON VERTICAL WATER STORAGE TANK. INLET FROM WATER METER. OUTLET TO PRESSURE PUMP SKID. MOUNT ON 6" HOUSEKEEPING PAD.
 - DUPLEX DOMESTIC WATER PUMP SKID EQUIVALENT TO BELL & GOSSETT HW254S-288X105HALQ-SG. PIPE FROM FIRE STORAGE TANK TO SKID. CAPACITY OF 150 GPM AT 90 FT HD. 208/360. 55 MCA.
 - 25,000 GALLON TANK BURIED AT 6'-0" BELOW GRADE. TANK BASIS OF DESIGN IS 10'-0" DIAMETER.
 - DUPLEX DOMESTIC WATER PUMP SKID EQUIVALENT TO BELL & GOSSETT MIX24DB. PIPE FROM STORAGE TANK TO SKID. CAPACITY OF 55 GPM AT 145 FT HD. 208/360 12 SLA.
 - MOTORIZED VALVE FOR FIRE TANK FILL. CONTROLLED BY TANK FILL CONTROLS BY FSG. PROVIDE ISOLATION VALVE ON EACH SIDE OF MOTORIZED VALVE.



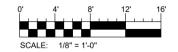
2 PLUMBING PLAN - UNDERGROUND
1/8" = 1'-0"



1 PLUMBING PLAN - BASEMENT
1/8" = 1'-0"



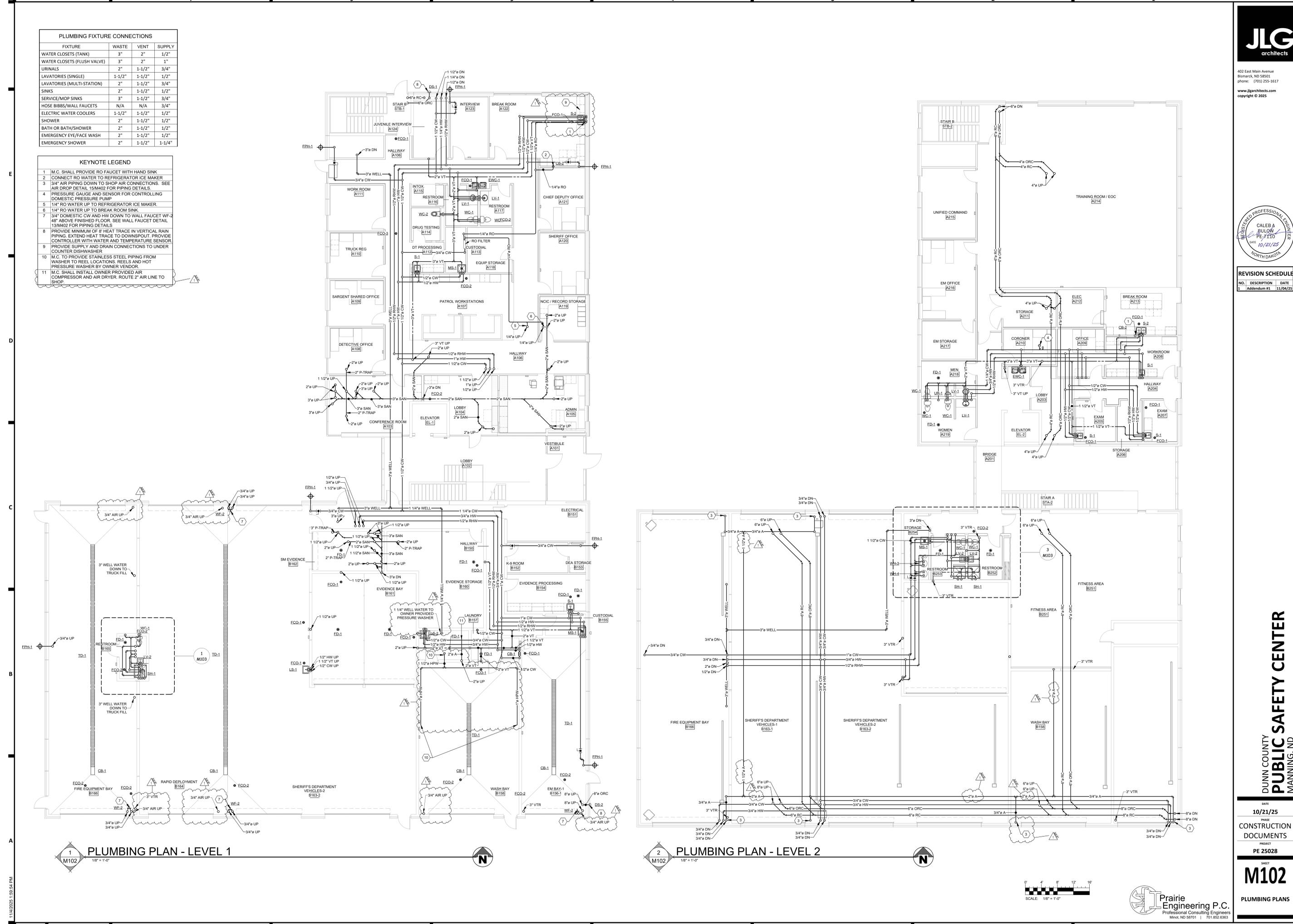
3 PLUMBING PLAN - ENLARGED MECHANICAL ROOM
1/8" = 1'-0"



PLUMBING FIXTURE CONNECTIONS

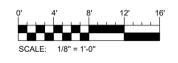
FIXTURE	WASTE	VENT	SUPPLY
WATER CLOSETS (TANK)	3"	2"	1/2"
WATER CLOSETS (FLUSH VALVE)	3"	2"	1"
URINALS	2"	1-1/2"	3/4"
LAVATORIES (SINGLE)	1-1/2"	1-1/2"	1/2"
LAVATORIES (MULTI-STATION)	2"	1-1/2"	3/4"
SINKS	2"	1-1/2"	1/2"
SERVICE/MOP SINKS	3"	1-1/2"	3/4"
HOSE BIBBS/WALL FAUCETS	N/A	N/A	3/4"
ELECTRIC WATER COOLERS	1-1/2"	1-1/2"	1/2"
SHOWER	2"	1-1/2"	1/2"
BATH OR BATH/SHOWER	2"	1-1/2"	1/2"
EMERGENCY EYE/FACE WASH	2"	1-1/2"	1/2"
EMERGENCY SHOWER	2"	1-1/2"	1-1/4"

- KEYNOTE LEGEND**
- M.C. SHALL PROVIDE RO FAUCET WITH HAND SINK
 - CONNECT RO WATER TO REFRIGERATOR ICE MAKER
 - 3/4" AIR PIPING DOWN TO SHOP AIR CONNECTIONS. SEE AIR DROP DETAIL 15M402 FOR PIPING DETAILS
 - PRESSURE GAUGE AND SENSOR FOR CONTROLLING DOMESTIC PRESSURE PUMP
 - 1/4" RO WATER UP TO REFRIGERATOR ICE MAKER
 - 1/4" RO WATER UP TO BREAK ROOM SINK
 - 3/4" DOMESTIC CW AND HW DOWN TO WALL FAUCET WF-2 48" ABOVE FINISHED FLOOR. SEE WALL FAUCET DETAIL 13M402 FOR PIPING DETAILS
 - PROVIDE MINIMUM OF 8" HEAT TRACE IN VERTICAL RAIN PIPING. EXTEND HEAT TRACE TO DOWNSPOUT. PROVIDE CONTROLLER WITH WATER AND TEMPERATURE SENSOR
 - PROVIDE SUPPLY AND DRAIN CONNECTIONS TO UNDER COUNTER DISHWASHER
 - M.C. TO PROVIDE STAINLESS STEEL PIPING FROM WASHER TO REEL LOCATIONS. REELS AND HOT PRESSURE WASHER BY OWNER VENDOR
 - M.C. SHALL INSTALL OWNER PROVIDED AIR COMPRESSOR AND AIR DRYER. ROUTE 2" AIR LINE TO SHOP

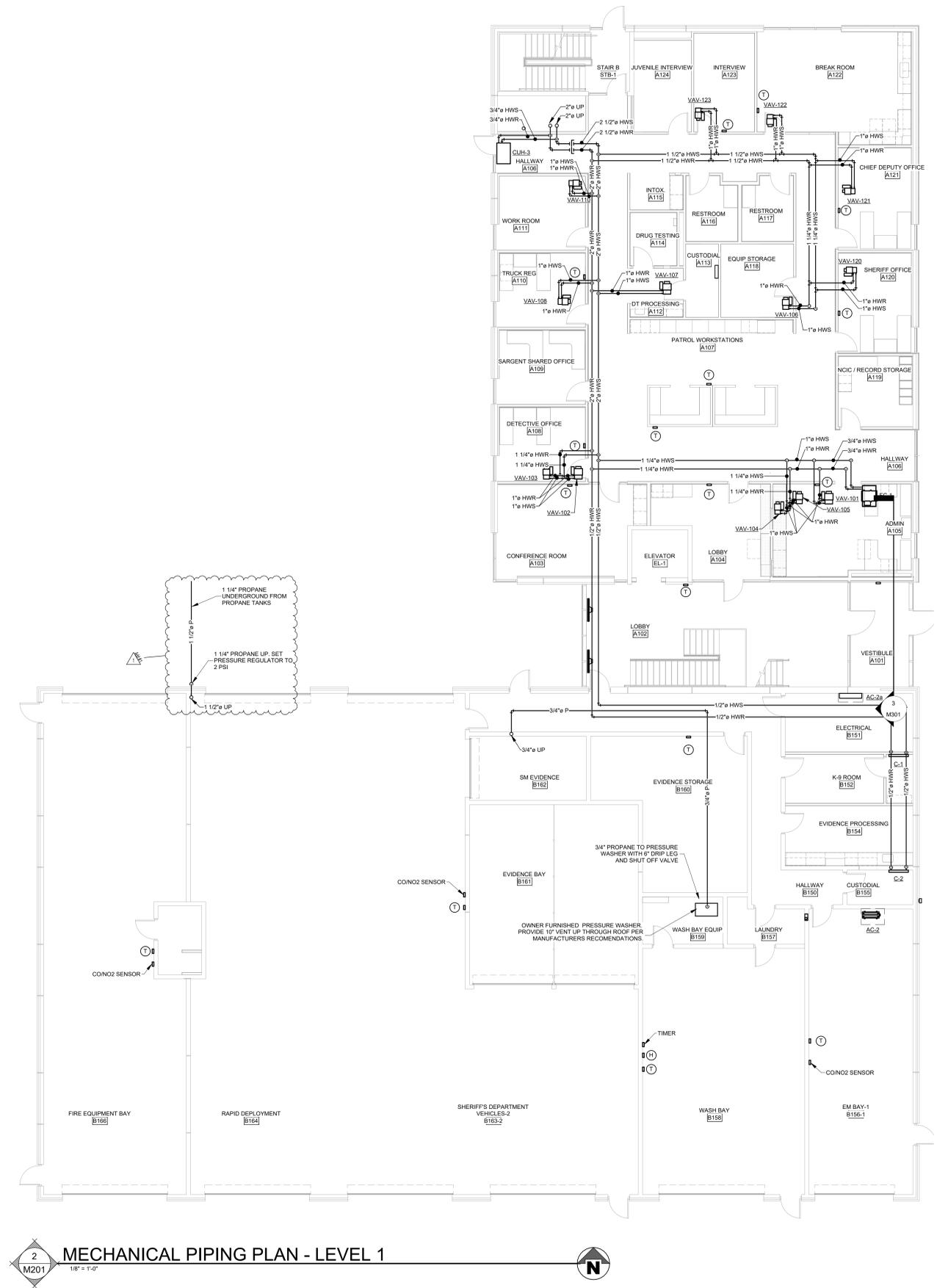
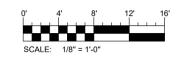


1 PLUMBING PLAN - LEVEL 1
1/8" = 1'-0"

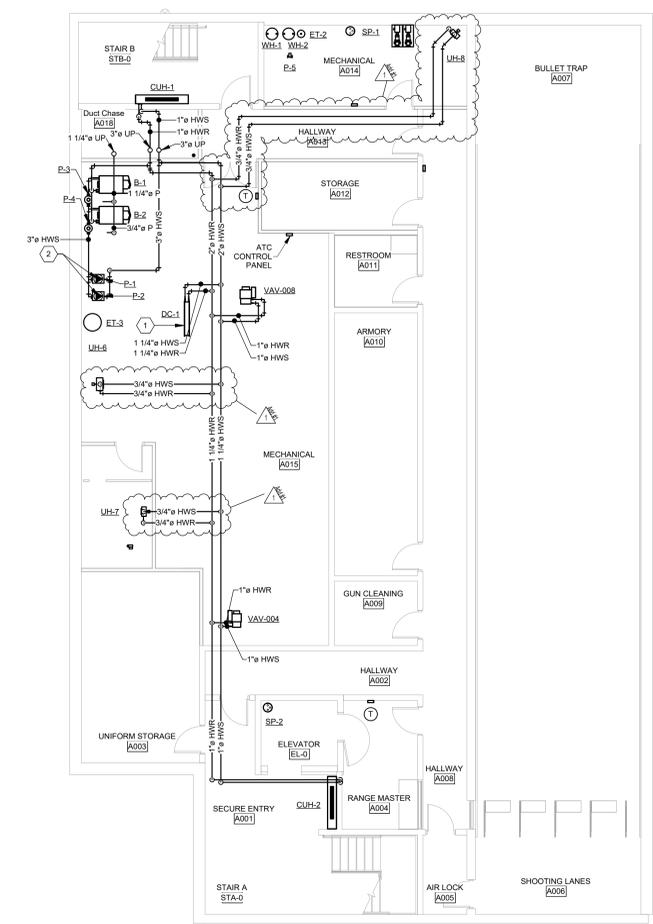
2 PLUMBING PLAN - LEVEL 2
1/8" = 1'-0"



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2 M201
MECHANICAL PIPING PLAN - LEVEL 1
1/8" = 1'-0"



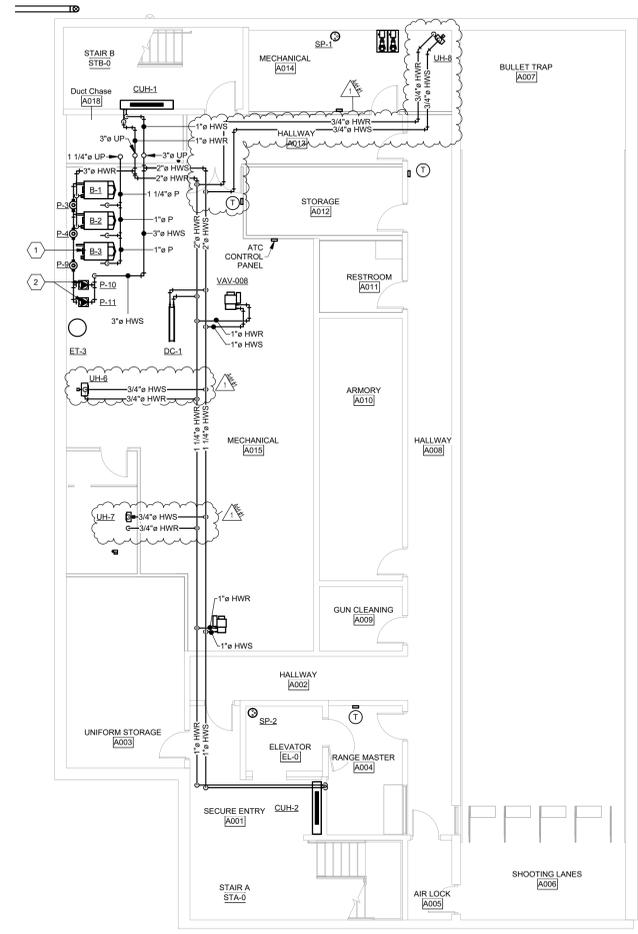
1 M201
MECHANICAL PIPING PLAN - BASEMENT
1/8" = 1'-0"

KEYNOTE LEGEND

1	DUCT COIL DC-1 TO BE OMITTED UNDER BASE BID
2	SYSTEM PUMPS P-1 AND P-2 TO BE REMOVED UNDER ALTERNATE BID NO. 2. REPLACE WITH SYSTEM PUMPS P-10 AND P-11.

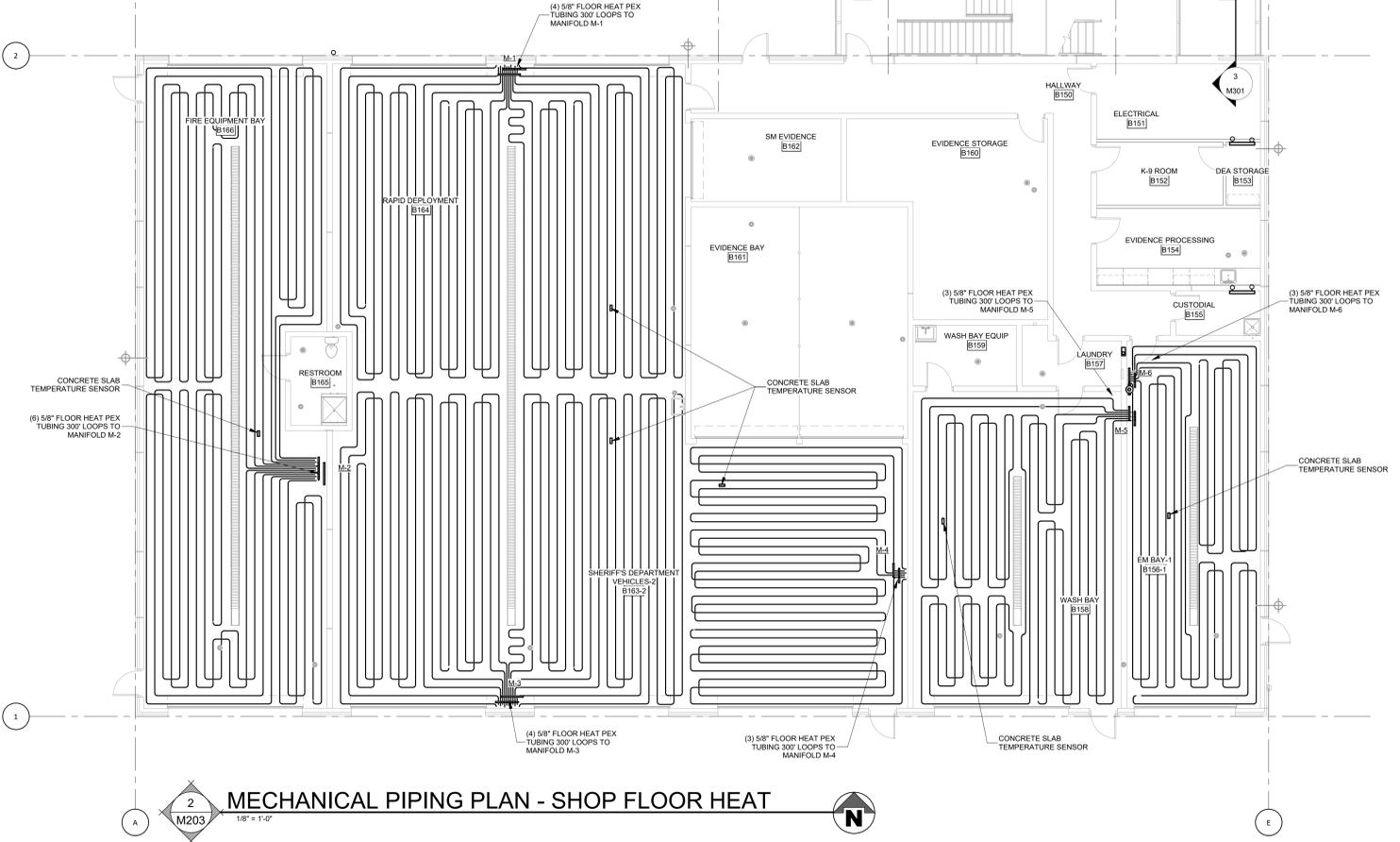
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NO.	DESCRIPTION	DATE
1	Addendum #1	11/04/25

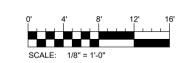


1 MECHANICAL PIPING PLAN - BASEMENT ALTERNATE 2
1/8" = 1'-0"

KEYNOTE LEGEND	
1	BOILER B-3 AND BOILER PUMP P-9 TO BE INCLUDED IN ALTERNATE NO. 2. OMITTED UNDER BASE BID.
2	SYSTEM PUMPS P-1 AND P-2 TO BE REMOVED UNDER ALTERNATE BID NO. 2. REPLACE WITH SYSTEM PUMPS P-10 AND P-11.



2 MECHANICAL PIPING PLAN - SHOP FLOOR HEAT
1/8" = 1'-0"

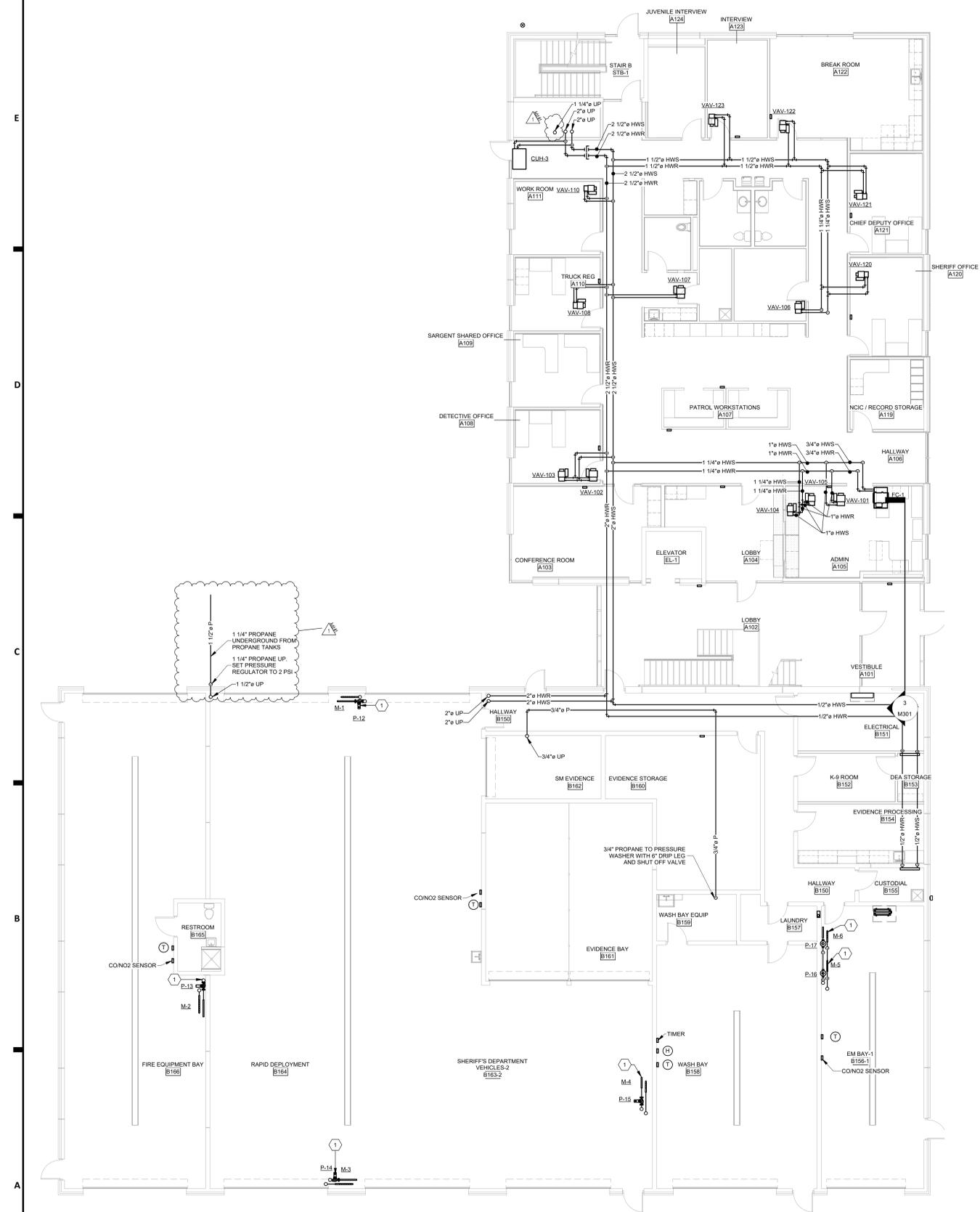


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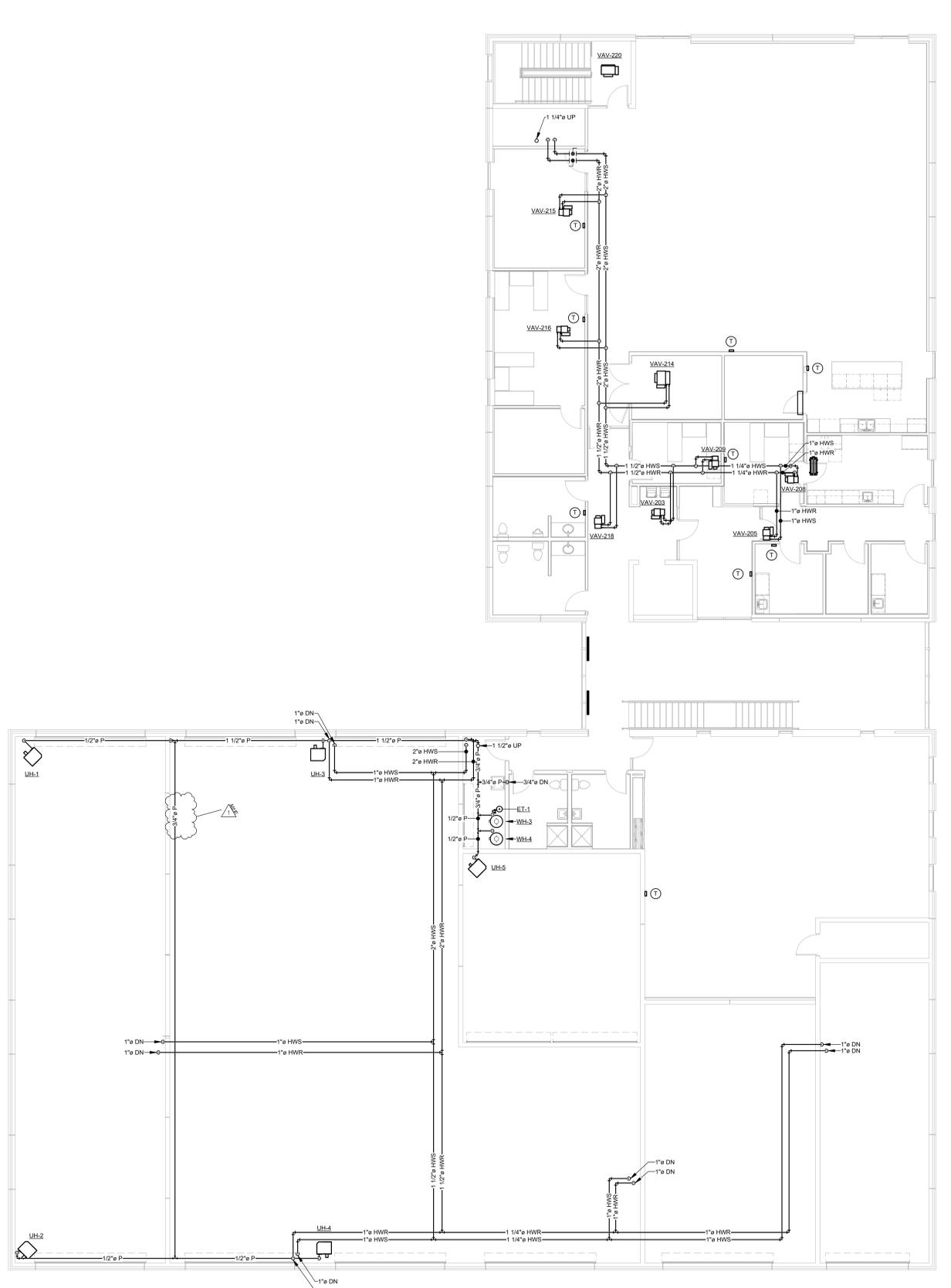
NO.	DESCRIPTION	DATE
1	Addendum #1	11/04/25

KEYNOTE LEGEND

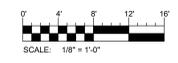
1 HOT WATER SUPPLY AND HOT WATER RETURN PIPING DOWN TO IN FLOOR HEATING MANIFOLD. SEE RESPECTIVE MANIFOLD PIPING DETAIL ON SHEET M403



1 MECHANICAL PIPING PLAN - LEVEL 1 ALTERNATE 2
1/8" = 1'-0"



2 MECHANICAL PIPING PLAN - LEVEL 2 ALTERNATE 2
1/8" = 1'-0"



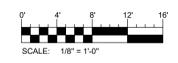
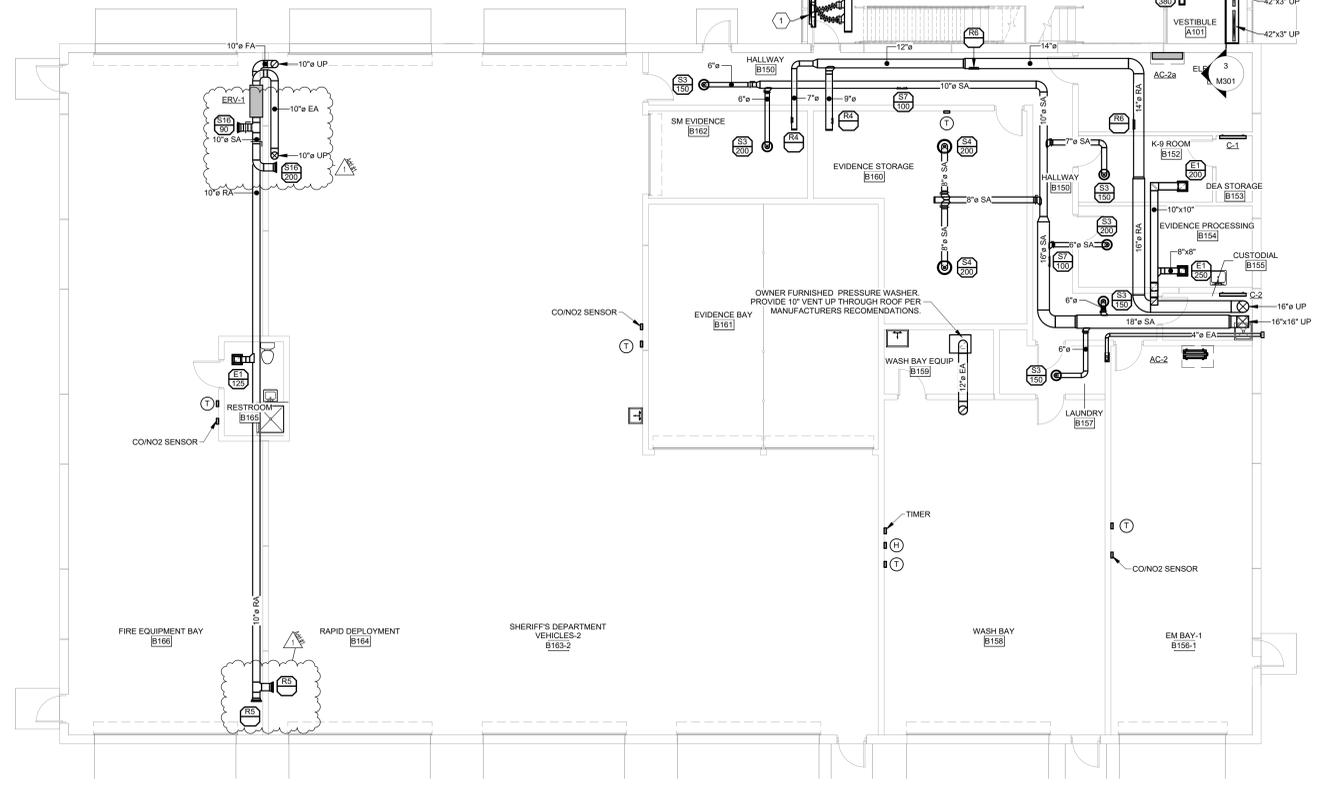
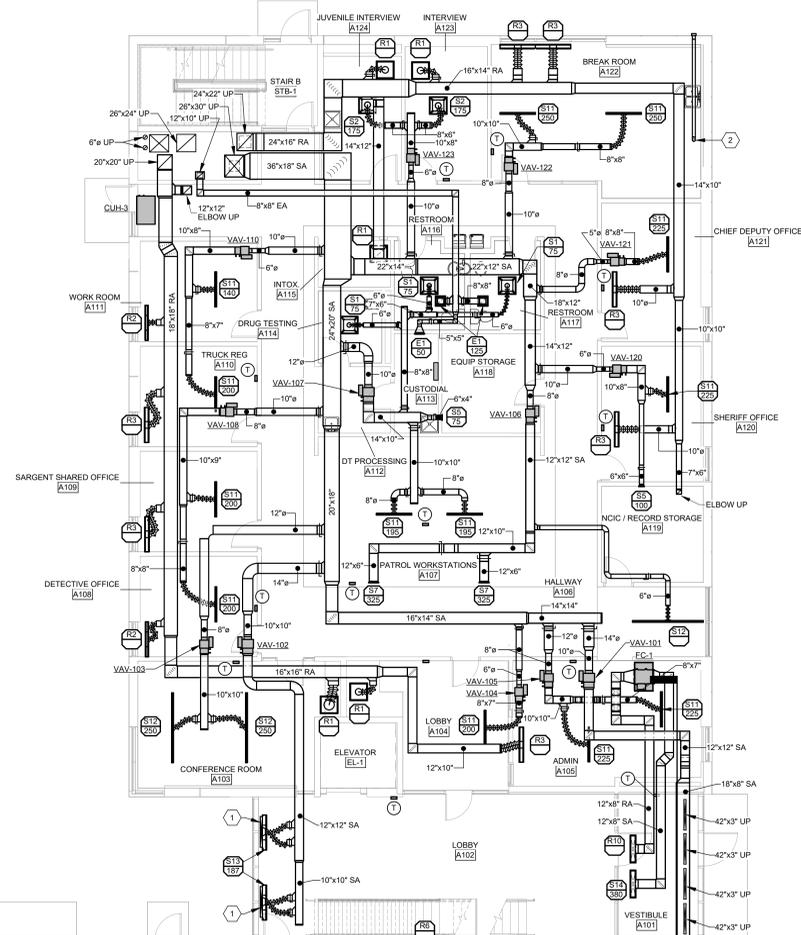
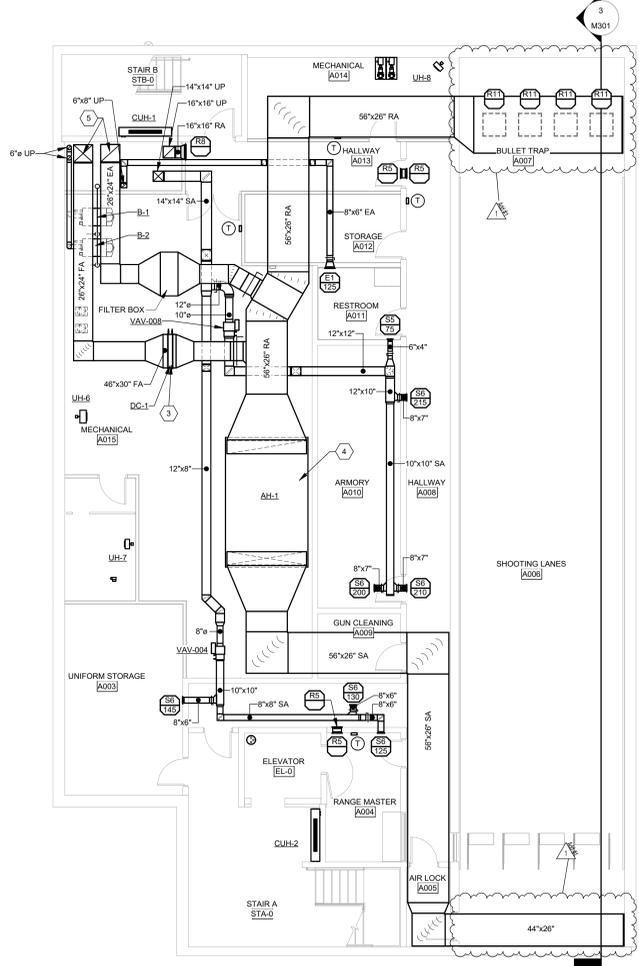
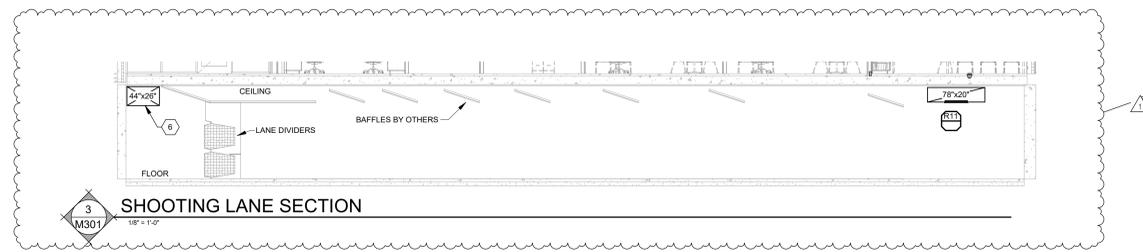
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HVAC LEGEND

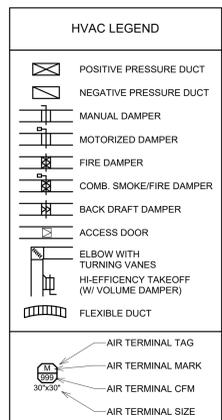
- POSITIVE PRESSURE DUCT
- NEGATIVE PRESSURE DUCT
- MANUAL DAMPER
- MOTORIZED DAMPER
- FIRE DAMPER
- COMB. SMOKE/FIRE DAMPER
- BACK DRAFT DAMPER
- ACCESS DOOR
- ELBOW WITH TURNING VANES
- HI-EFFICIENCY TAKEOFF (W/ VOLUME DAMPER)
- FLEXIBLE DUCT
- AIR TERMINAL TAG
- AIR TERMINAL MARK
- AIR TERMINAL CFM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

KEYNOTE LEGEND

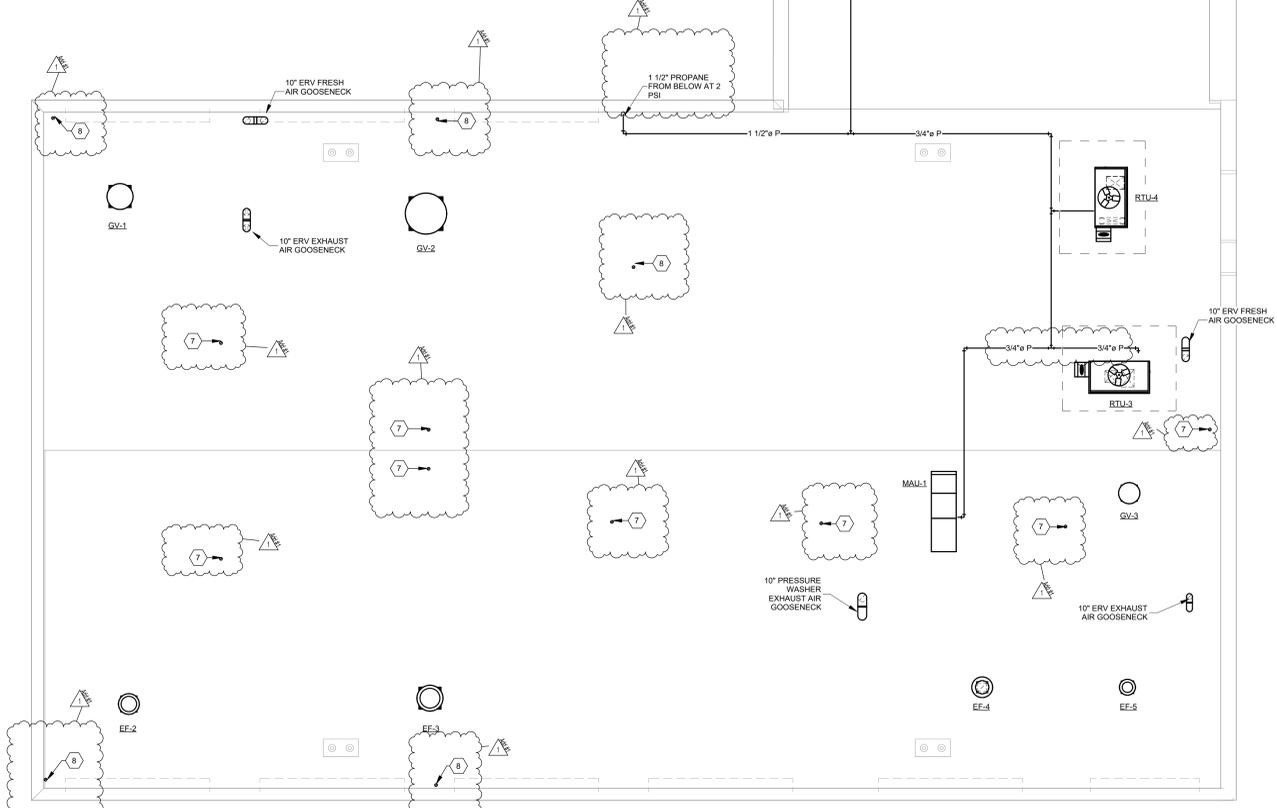
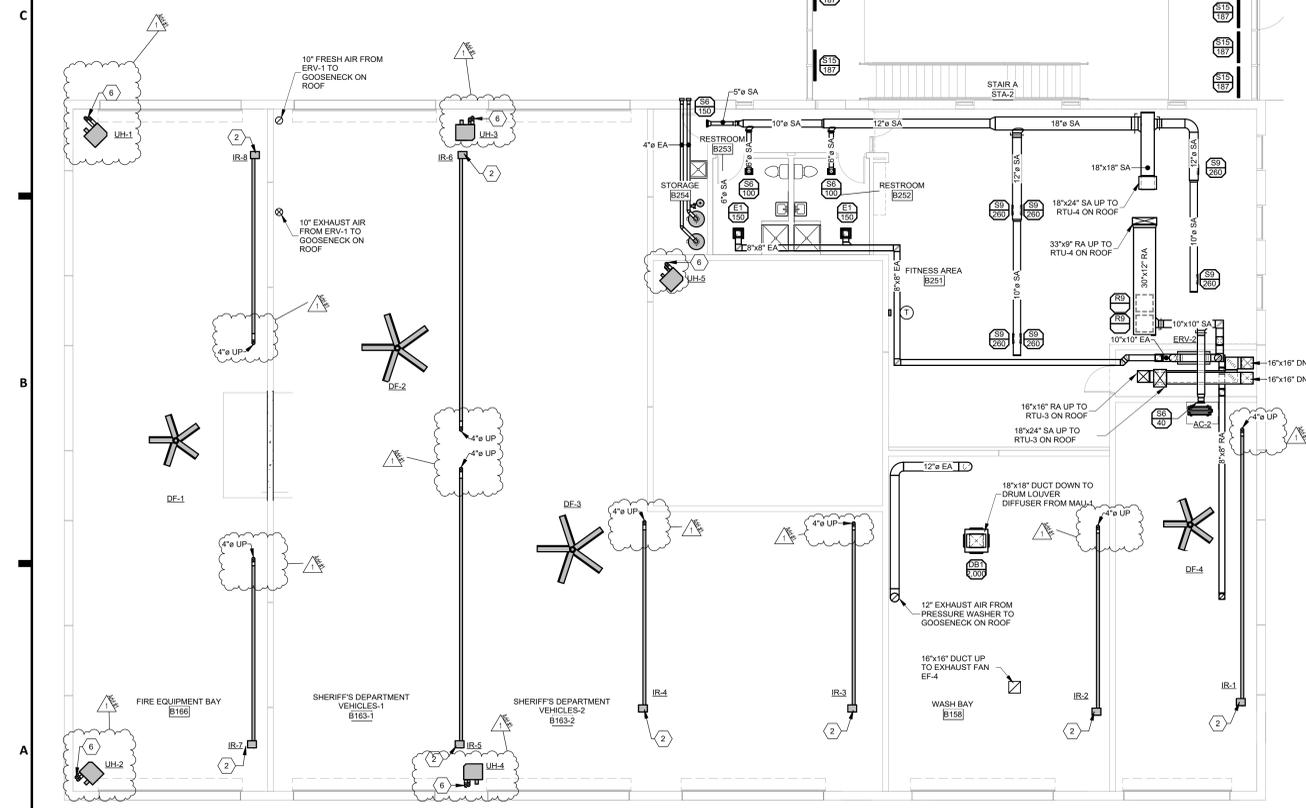
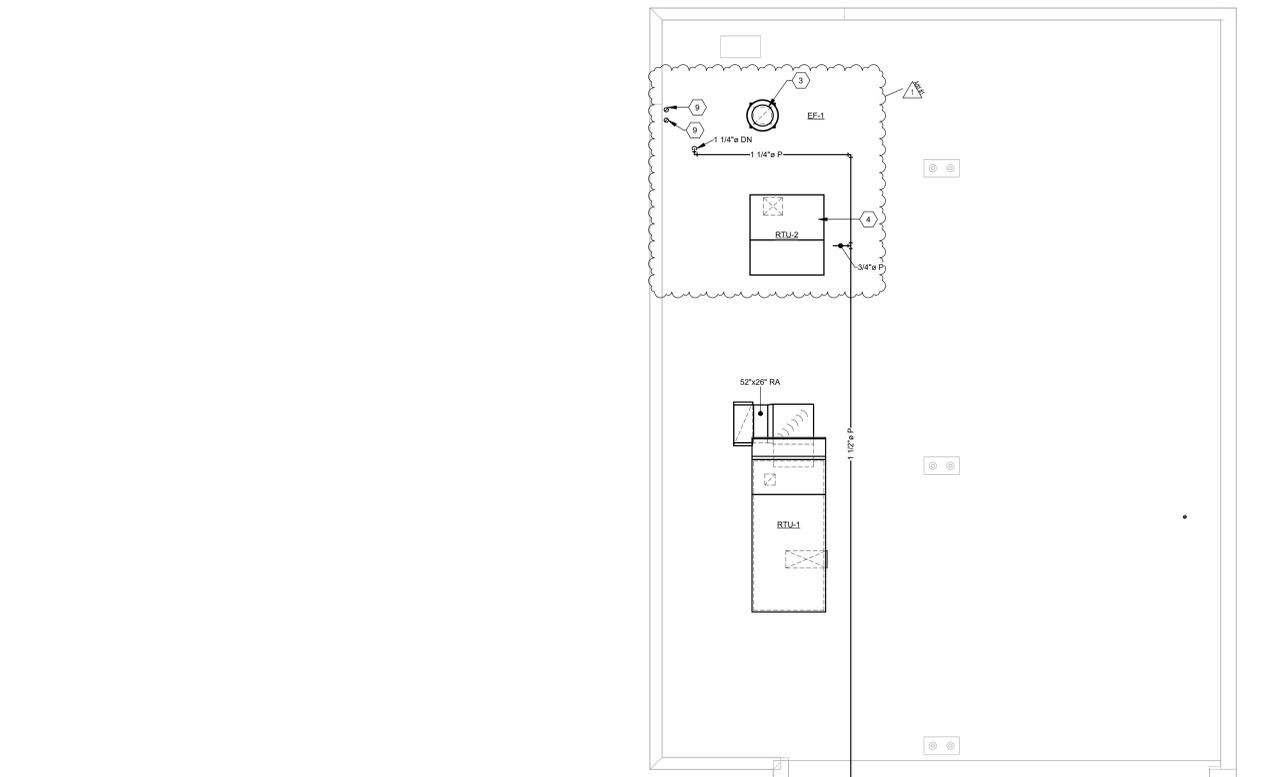
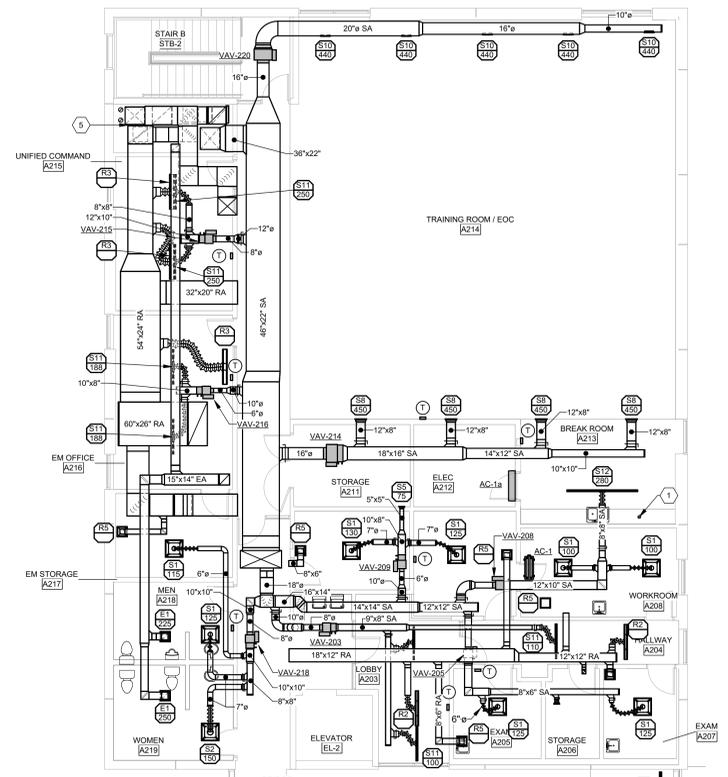
- 1 PLENUM FOR FLOOR GRILLE ABOVE
- 2 M.C. SHALL CONNECT TO RANGE HOOD PROVIDED BY OTHERS AND ROUT EXHAUST DUCT OUT NEAREST WALL WITH BACK DRAFT DAMPER AND WALL CAP. COORDINATE WITH G.C. AND ARCHITECT ON FINAL HOOD LOCATION, DIMENSIONS AND CONNECTION SIZES.
- 3 DUCT COIL DC-1 TO BE OMITTED UNDER BASE BID
- 4 GUN RANGE AIR HANDLER AH-1, DUCTWORK, AND FILTER BOX TO BE OMITTED UNDER BASE BID
- 5 ALL GUN RANGE EXHAUST AND FRESH AIR DUCTWORK TO BE INSTALLED IN CHASE UNDER BOTH BASE BID AND ALTERNATE BID NO. 6
- 6 PERFORATED BOTTOM PANEL MADE FROM 16 GA. GALVANIZED STEEL WITH 3/16" ROUND ON 1/4" CENTERS. PROVIDE ADEQUATE SUPPORT TO PREVENT PANEL FROM FLEXING. MOUNT DUCT TIGHT TO CEILING.



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

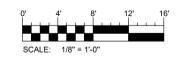


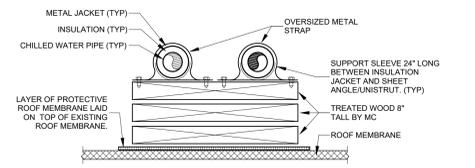
- KEYNOTE LEGEND**
- 1 M.C. SHALL CONNECT TO RANGE HOOD PROVIDED BY OTHERS AND ROUT EXHAUST DUCT OUT ROOF. COORDINATE WITH G.C. ON FINAL HOOD LOCATION, DIMENSIONS AND CONNECTION SIZES.
 - 2 RADIANT TUBE HEATERS TO BE INSTALLED UNDER BASE BID. HEATERS OMITTED UNDER ALTERNATE BID NO. 2.
 - 3 EXHAUST FAN EF-1 TO BE INSTALLED UNDER ALTERNATE BID NO. 2. INSTALL FIRING RANGE EXHAUST DUCTWORK WITH FAN CURB AND INSULATED CAP UNDER BASE BID.
 - 4 RTU-2 TO BE INSTALLED UNDER ALTERNATE BID NO. 2. INSTALL FIRING RANGE FRESH AIR DUCTWORK WITH INSULATED CAP ON ROOF UNDER BASE BID.
 - 5 ALL DUCT CHASE DUCTWORK TO BE INSTALLED UNDER BASE BID. GUN RANGE DUCTWORK TO BE INSTALLED WITH INSULATED CAP UNDER BASE BID.
 - 6 SUSPEND GAS UNIT HEATER FROM BUILDING STRUCTURE. ROUTE 4" COMBUSTION AIR AND EXHAUST FUE PIPING FROM UNIT HEATER TO THE CONCENTRIC VENT KIT SUPPLIED WITH THE UNIT HEATERS AND UP THROUGH ROOF OR WALL TO TERMINATION KIT. SEAL ALL BUILDING PENETRATIONS AIR AND WATER TIGHT AND PROVIDE ESCUTCHEONS AS REQUIRED.
 - 7 IR VENTING. PROVIDE ROOF TERMINATION PER MANUFACTURER'S RECOMMENDATION.
 - 8 UNIT HEATER VENT AND COMBUSTION AIR. INSTALL PER MANUFACTURER'S RECOMMENDATION.
 - 9 BOILER VENT AND COMBUSTION AIR. INSTALL PER MANUFACTURER'S RECOMMENDATION.



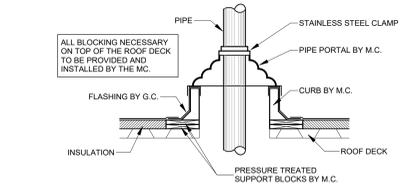
1 HVAC PLAN - LEVEL 2
M302 1/8" = 1'-0"

2 HVAC PLAN - ROOF
M302 1/8" = 1'-0"

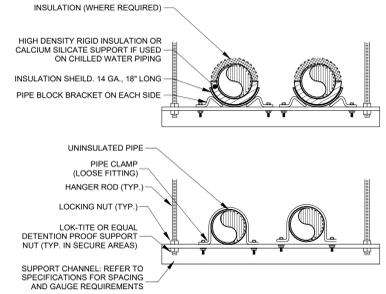




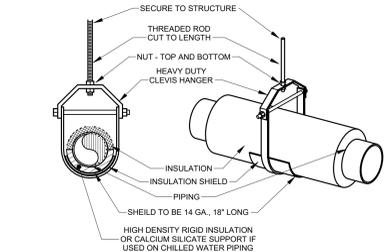
4 M401 NTS
ROOF PIPING SUPPORT DETAIL



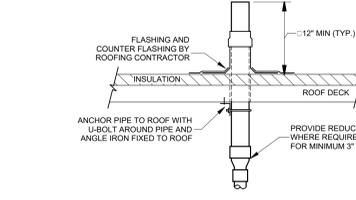
3 M401 NTS
PIPE PORTAL DETAIL



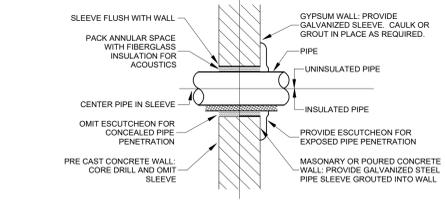
2 M401 NTS
PIPE TRAPEZE HANGER DETAIL



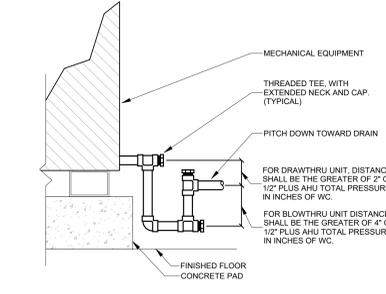
1 M401 NTS
PIPE HANGER DETAIL



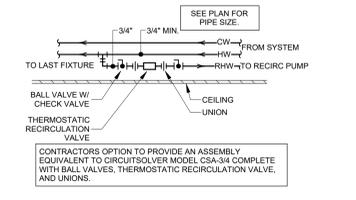
8 M401 NTS
VENT THRU ROOF (VTR)



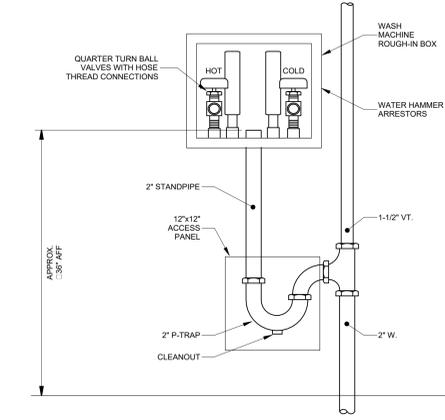
7 M401 NTS
PIPE PENETRATION OF NON-RATED WALL



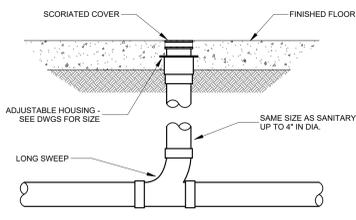
6 M401 NTS
CONDENSATE TRAP DETAIL



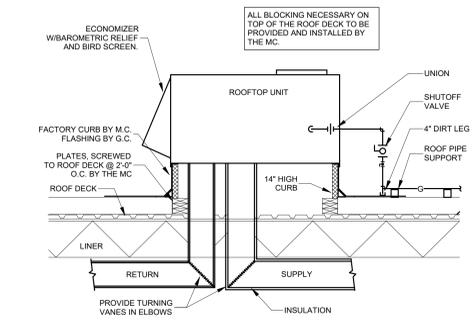
12 M401 NTS
DOMESTIC RECIRC HOT WATER DETAIL



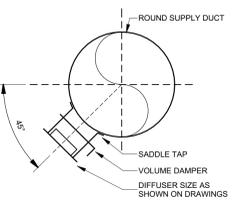
11 M401 NTS
WASH MACHINE CONNECTION DETAIL



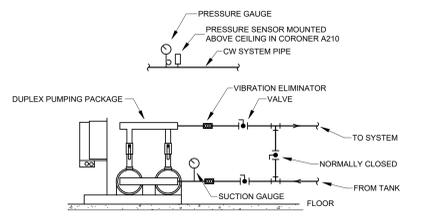
13 M401 NTS
FLOOR CLEANOUT DETAIL



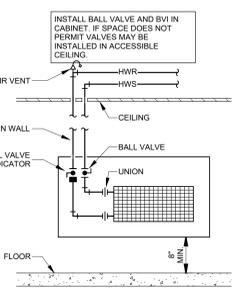
21 M401 NTS
ROOFTOP UNIT DETAIL



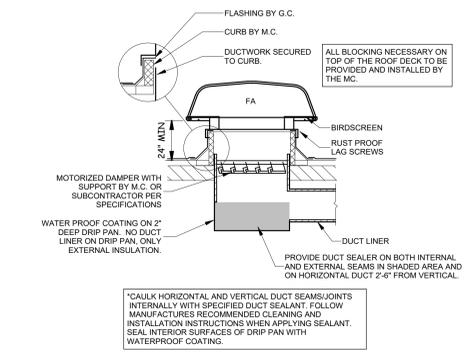
20 M401 NTS
SPIRAL DUCT



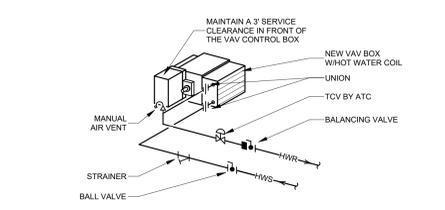
10 M401 NTS
DOMESTIC PRESSURE PUMP



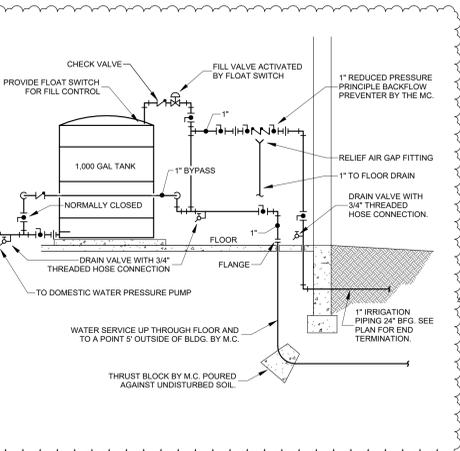
18 M401 NTS
CABINET UNIT HEATER PIPING DETAIL



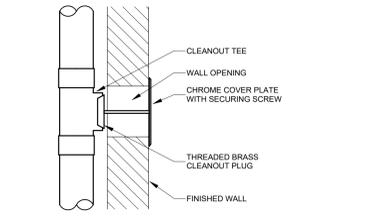
19 M401 NTS
INTAKE HOOD DETAIL



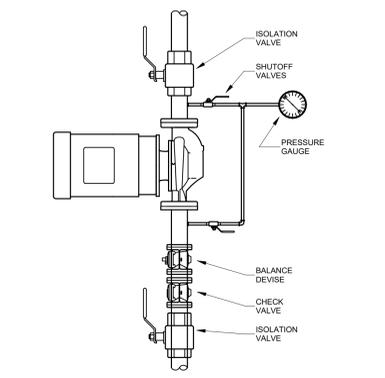
17 M401 NTS
VAV W/ REHEAT PIPING DETAIL



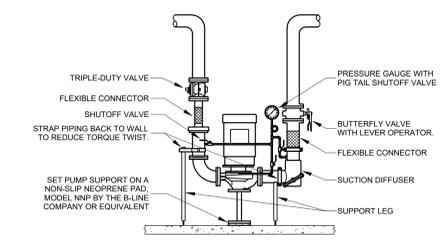
9 M401 NTS
WATER SERVICE DETAIL



14 M401 NTS
WALL CLEANOUT DETAIL



15 M401 NTS
INLINE PUMP DETAIL



16 M401 NTS
VERTICAL INLINE PUMP DETAIL

ROOFTOP UNIT SCHEDULE

NOTES:
 1. PROVIDE 18" ROOF CURB
 2. VAV RTU WITH COOLING ONLY, NO HEATING. PROVIDE SEPARATE AIR STREAM FOR EXHAUST AIR FROM TOILET ROOMS.
 3. RTU WITH HEATING AND COOLING, 100% OA

MARK	MANUFACTURER	MODEL	SUPPLY	SUPPLY FAN	OPERATING WEIGHT	HEATING	SENSIBLE	TOTAL CAP	COOLING	EER	IEER	SCCR	MCA	MOP	VOLT	Ph	Hz	NOTES				
RTU-1	AAON	RN-031-3-0-GAAC-V0-21-000-A	13,500 CFM	2.5 in-wg 1,350 CFM	20 hp 6,800 lb	0 Btu/h	0 °F	309,700 Btu/h	340,900 Btu/h	75 °F	54 °F	10.6	13.5	65000 A	213 A	250 A	208 V	3	60 Hz	1, 2		
RTU-2	AAON	RNA-018-G-A	4,700 CFM	0.65 in-wg 4,700 CFM	2 hp 2,700 lb	940,000 Btu/h	437,400 Btu/h	-20 °F	65 °F	206,800 Btu/h	208,300 Btu/h	95 °F	54 °F	11.9	15.7	10000 A	81 A	110 A	208 V	3	60 Hz	1, 3
RTU-3	Axon, Inc.	RQ-003-0-FAAY-S0-21-100-A	2,000 CFM	1 in-wg 200 CFM	2 hp 925 lb	100,000 Btu/h	81,000 Btu/h	55 °F	102 °F	45,600 Btu/h	48,000 Btu/h	77 °F	56 °F	11.65	14.5	25 A	35 A	208 V	3	60 Hz	1	
RTU-4	Axon, Inc.	RQ-005-3-0-FAAY-S0-21-100-A	2,000 CFM	1 in-wg 200 CFM	2 hp 940 lb	100,000 Btu/h	81,000 Btu/h	65 °F	102 °F	48,800 Btu/h	55,500 Btu/h	77 °F	56 °F	11.45	14.1	10000 A	28 A	40 A	208 V	3	60 Hz	1

FIRING RANGE AIR HANDLER

NOTES:
 1. AIR HANDLER CONSISTS OF PRE-FILTER, SUPPLY FAN, AND FINAL-FILTER SECTIONS.

TAG	MANUF.	MODEL	SYSTEM	TYPE	AIRFLOW	ESP	HP	VOLT	Ph	Hz	NOTES
AH-1	DAIKIN	CAH043GVGM	FIRING RANGE	CONSTANT VOLUME	15,500 CFM	0.75 in-wg	3.5 hp	208 V	3	60 Hz	1

RTU ENERGY WHEEL SECTION SCHEDULE

NOTES:
 1. PROVIDE SEPARATE AIR PATH FOR 300 CFM EXHAUST AIR STREAM FROM TOILET ROOMS
 2. NOT USED

MARK	AIRFLOW	SUMMER	WINTER	EFFECTIVENESS	NOTES				
RTU-1	1,500 CFM	95 °F	77 °F	-20 °F	65 °F	80.9%	89.9%	86.8%	1, 2

FAN SCHEDULE

SCHEDULE NOTES:
 1. PROVIDE MOUNTING HARDWARE, ISOLATION DEVICES, FRAME WORK FOR SUSPENDED INSTALLATION
 2. PROVIDE 16" CURB FOR MOUNTING FAN ON ROOF
 3. PROVIDE FACTORY DISCONNECT

MARK	MANUFACTURER	MODEL	SYSTEM	TYPE	AIRFLOW	ESP	RPM	SPEED CONTROL	FAN	ELECTRICAL	Ph	Hz	NOTES			
EF-1	GREENHECK	CUBE-220HP	FIRING RANGE	UPBLAST	4,700 CFM	1.5 in-wg	1100	SHEAVE	2.2 hp	13 A	20 A	208 V	3	60 Hz	2	
EF-2	GREENHECK	G-140-VG	BAY EXHAUST	ROOF EXHAUST	1,250 CFM	0.25 in-wg	848	DIAL	0.1 hp	0.25 hp	5 A	15 A	115 V	1	60 Hz	2
EF-3	GREENHECK	G-180-VG	BAY EXHAUST	ROOF EXHAUST	3,100 CFM	0.25 in-wg	880	DIAL	0.4 hp	0.75 hp	13 A	20 A	115 V	1	60 Hz	2
EF-4	GREENHECK	G-130-VG	BAY EXHAUST	ROOF EXHAUST	2,000 CFM	0.5 in-wg	1633	DIAL	0.45 hp	0.75 hp	13 A	20 A	115 V	1	60 Hz	2
EF-5	GREENHECK	G-095-VG	BAY EXHAUST	ROOF EXHAUST	535 CFM	0.25 in-wg	1300	DIAL	0.1 hp	0.1 hp	4 A	15 A	115 V	1	60 Hz	2

INTAKE HOOD SCHEDULE

SCHEDULE NOTES:
 1. PROVIDE ROOF CURB
 2. PROVIDE 1/2" SQUARE MESH, 16 GA. BIRDSCREEN
 3. MOUNT MOTORIZED DAMPER BY ATC

MARK	MANUFACTURER	MODEL	AIR FLOW	THROAT DIAMETER	APD	THROAT VELOCITY	NOTES
GV-1	GREENHECK	GRSI-20	1,240 CFM	30"	0.05 in-wg	550 FPM	1, 2, 3
GV-2	GREENHECK	GRSI-36	3,098 CFM	36"	0.05 in-wg	430 FPM	1, 2, 3
GV-3	GREENHECK	GRSI-15	535 CFM	15"	0.05 in-wg	480 FPM	1, 2, 3

RADIANT TUBULAR HEATERS

NOTES:
 1. PROVIDE MFR RECOMMENDED VENT CAP
 2. PROVIDE 24V CONTROLS WITH RADIANT SENSING THERMOSTAT.
 3. SINGLE-STAGE COMBINATION GAS VALVE
 4. TWO-STAGE COMBINATION GAS VALVE
 5. ALUMINIZED STEEL REFLECTORS THAT OVERLAP FOR CONTINUOUS REFLECTOR SYSTEM.
 6. PROVIDE OUTDOOR COMBUSTION AIR INLET KIT.

MARK	MANUFACTURER	MODEL	LENGTH	FUEL TYPE	HEATING CAPACITY	ELECTRICAL	NOTES
IR-1	MODINE	IPT-50	30'	LP	11 in-wg 6,000 Btu/h	120 V	1 60 Hz 1, 2, 3, 5, 6
IR-2	MODINE	IPT-50	20'	LP	11 in-wg 50,000 Btu/h	120 V	1 60 Hz 1, 2, 3, 5, 6
IR-3	MODINE	IPT-50	20'	LP	11 in-wg 50,000 Btu/h	120 V	1 60 Hz 1, 2, 3, 5, 6
IR-4	MODINE	IPT-50	20'	LP	11 in-wg 50,000 Btu/h	120 V	1 60 Hz 1, 2, 3, 5, 6
IR-5	MODINE	IPT-50	30'	LP	11 in-wg 60,000 Btu/h	120 V	1 60 Hz 1, 2, 3, 5, 6
IR-6	MODINE	IPT-50	30'	LP	11 in-wg 60,000 Btu/h	120 V	1 60 Hz 1, 2, 3, 5, 6
IR-7	MODINE	IPT-50	20'	LP	11 in-wg 50,000 Btu/h	120 V	1 60 Hz 1, 2, 3, 5, 6
IR-8	MODINE	IPT-50	20'	LP	11 in-wg 50,000 Btu/h	120 V	1 60 Hz 1, 2, 3, 5, 6

CABINET UNIT HEATER - HYDRONIC

SCHEDULE NOTES:
 1. PROVIDE INTEGRAL 3-SPEED SELECTOR FOR FAN
 2. PROVIDE COLOR SAMPLE SHEET FOR COLOR SELECTION BY ARCHITECT
 3. HORIZONTAL, RECESSED, MOUNTED IN CEILING, LOUVERED INLET AND OUTLET
 4. FLOOR MOUNTED, BOTTOM INLET LOUVER, TOP LOUVERED OUTLET

MARK	MANUFACTURER	MODEL	HEATING CAPACITY	FLOW	AIR SIDE	WATER SIDE	EWT	LWT	ELECTRICAL	NOTES			
CUH-1	MODINE	C-06	33,415 Btu/h	620 CFM	65 °F	114 °F	35% EG	4.7 GPM	2 RH2O	180 °F	120 V	1 60 Hz	1, 2, 4
CUH-2	MODINE	C-06	33,415 Btu/h	620 CFM	65 °F	114 °F	35% EG	4.7 GPM	2 RH2O	180 °F	120 V	1 60 Hz	1, 2, 4
CUH-3	MODINE	CW-003	22,400 Btu/h	330 CFM	65 °F	110 °F	35% EG	2.3 GPM	2 RH2O	180 °F	120 V	1 60 Hz	1, 2, 3

MAKE-UP AIR UNIT - GAS

SCHEDULE NOTES:
 1. PROVIDE REMOTE CONTROL PANEL, MOUNTED ON WALL AS SHOWN ON DRAWINGS.
 2. PROVIDE 18" ROOF CURB
 3. PROVIDE FAN VIBRATION ISOLATION
 4. PROVIDE FAN VIBRATION ISOLATION
 5. PROVIDE FAN VIBRATION ISOLATION
 6. DISCHARGE TEMPERATURE CONTROL
 7. PROVIDE MOTORIZED INLET DAMPER
 8. PROVIDE WEATHER HOOD WITH 1" BIRD SCREEN AND WASHABLE FILTER

MARK	MANUFACTURER	MODEL	ZONE	ARRANGEMENT	FLOW	ESP	MOTOR	FURNACE	HEATING CAPACITY	EAT	LAT	MCA	VOLT	Ph	Hz	NOTES
MAU-1	GREENHECK	DGX-P112-H12	WASH BAY	HORIZONTAL	2,000 CFM	0.5 in-wg	0.8 hp	1 hp	216,000 Btu/h	-20 °F	80 °F	6 A	208 V	3	60 Hz	2, 3, 4, 5, 6, 8

233700 - AIR TERMINAL SCHEDULE

SCHEDULE NOTES:
 1. M.C. TO PROVIDE SHEET METAL TRANSITION FROM DUCT TO GRILLE AS REQUIRED.
 2. PLAQUE TYPE DIFFUSER
 3. CONE TYPE DIFFUSER
 4. LONG BLADE
 5. SHORT BLADE
 6. PROVIDE DAMPER
 7. FILTER GRILLE, FOR 2 INCH FILTERS
 8. ROUND DIFFUSER
 9. PAINT BLACK INSIDE DUCT SURFACE ABOVE REGISTER
 10. RECTANGULAR/SQUARE DIFFUSER/GRILLE
 11. HEAVY DUTY
 12. 45 DEGREE BLADES ANGLED UP
 13. EGG CRATE GRILLE
 14. SINGLE DEFLECTION
 15. DOUBLE DEFLECTION
 16. 1/2" BLADE SPACING, 1/8" BLADES, 15 DEG DEFLECTION
 17. CEILING RADIATION FIRE DAMPER, 1.5 HR RATED
 18. SET SO AIR IS DEFLECTED TOWARDS EXTERIOR WALL
 19. SLOT DIFFUSER, 1" SLOT X3, 4" LONG, PROVIDE PLENUM
 20. SLOT DIFFUSER, 1" SLOT X3, 4" LONG, PROVIDE PLENUM
 21. 3/16" BARS AT 7/16" SPACING, 15 DEGREE DEFLECTION
 22. SLOT DIFFUSER, 3/4" SLOT, 4" LONG, PROVIDE PLENUM
 23. SLOT DIFFUSER, 3/4" SLOT, 4" LONG, PROVIDE PLENUM
 *CONTRACTOR TO VERIFY CEILING TYPES PRIOR TO ORDERING

TAG	QTY	MANUFACTURER	MODEL	FUNCTION	SIZE	FINISH	FRAME	MOUNT	NOTES
DB1	1	PRICE INDUSTRIES	DBH 7.5T	Supply Air	19"x19"	BY ARCH	BY ARCH	DUCT	1
E1	11	PRICE INDUSTRIES	530	Exhaust Air	12"x12"	BY ARCH	BY ARCH	TYPE F SURFACE	1, 5, 9, 10, 12, 15
R1	5	PRICE INDUSTRIES	SDS100	Return Air	22"x22"	BY ARCH	BY ARCH	TYPE F SURFACE	1, 5, 9, 10, 12, 14, 15
R2	4	PRICE INDUSTRIES	SDS100	Return Air	8"	WHITE	TYPE 14	LAY-IN-TILE	20
R3	10	PRICE INDUSTRIES	SDR100	Return Air	12"	BY ARCH	TYPE 14	LAY-IN-TILE	22
R4	2	PRICE INDUSTRIES	530	Return Air	6"x6"	BY ARCH	TYPE F SURFACE	1, 5, 9, 10, 12, 15	
R5	12	PRICE INDUSTRIES	530	Return Air	12"x12"	BY ARCH	TYPE F SURFACE	<varies>	
R6	2	PRICE INDUSTRIES	530	Return Air	12"x12"	BY ARCH	TYPE F SURFACE	1, 5, 9, 10, 12, 15	
R8	1	PRICE INDUSTRIES	530	Return Air	20"x20"	BY ARCH	TYPE F SURFACE	1, 5, 9, 10, 12, 15	
R9	2	PRICE INDUSTRIES	81	Return Air	22"x22"	BY ARCH	TYPE F SURFACE	1, 9, 10, 13, 14	
R10	1	PRICE INDUSTRIES	LBPH 16B	Return Air	36"x6"	BY ARCH	TYPE 1000 SURFACE	1, 4, 10, 15, 18, 19	
R11	4	PRICE INDUSTRIES	530	Return Air	30"x30"	BY ARCH	TYPE F SURFACE	1, 2, 10, 14	
S1	11	PRICE INDUSTRIES	SPD	Supply Air	8"	BY ARCH	TYPE 31	LAY-IN-TILE	1, 2, 10, 14
S2	3	PRICE INDUSTRIES	SPD	Supply Air	8"	BY ARCH	TYPE 31	LAY-IN-TILE	1, 2, 10, 14
S3	6	PRICE INDUSTRIES	RCD	Supply Air	6"	BY ARCH	N/A	SURFACE	1, 3, 8
S4	2	PRICE INDUSTRIES	RCD	Supply Air	8"	BY ARCH	N/A	SURFACE	1, 3, 8
S5	5	PRICE INDUSTRIES	510	Supply Air	6"x6"	BY ARCH	TYPE F SURFACE	1, 4, 10, 15	
S6	10	PRICE INDUSTRIES	510	Supply Air	6"x6"	BY ARCH	TYPE F SURFACE	1, 4, 10, 15	
S7	4	PRICE INDUSTRIES	510	Supply Air	12"x6"	BY ARCH	TYPE F SURFACE	1, 4, 10, 15	
S8	4	PRICE INDUSTRIES	510	Supply Air	14"x8"	BY ARCH	TYPE F SURFACE	1, 4, 10, 15	
S9	6	PRICE INDUSTRIES	SOG	Supply Air	12"x6"	BY ARCH	TYPE F SURFACE	1, 5, 6, 10, 16	
S10	5	PRICE INDUSTRIES	SOG	Supply Air	12"x6"	BY ARCH	TYPE F SURFACE	1, 5, 6, 10, 16	
S11	20	PRICE INDUSTRIES	SDS75	Supply Air	8"	BY ARCH	TYPE 14	LAY-IN-TILE	24
S12	4	PRICE INDUSTRIES	SDS75	Supply Air	8"	BY ARCH	TYPE 14	LAY-IN-TILE	23
S13	2	PRICE INDUSTRIES	SDS100	Supply Air	8"	BY ARCH	TYPE 14	LAY-IN-TILE	20
S14	1	PRICE INDUSTRIES	LBPH 16B	Supply Air	36"x6"	BY ARCH	TYPE 1000 SURFACE	1, 4, 10, 15, 18, 19	
S15	6	PRICE INDUSTRIES	LBPH	Supply Air	42"x3"	BY ARCH	STYLE 125 FLOOR	1, 4, 10, 15, 19, 21	
S16	2	PRICE INDUSTRIES	510	Supply Air	12"x12"	BY ARCH	TYPE F SURFACE	1, 4, 10, 15	

238000 - UNIT HEATER - HYDRONIC

SCHEDULE NOTES:
 1. NOT USED

MARK	MANUFACTURER	MODEL	THROW DIRECTION	HEATING CAPACITY	FLOW	AIR SIDE	WATER SIDE	MOTOR HP	ELECTRICAL	NOTES						
UH-6	MODINE	HSB 47S	HORIZONTAL	30,900 Btu/h	730 CFM	65 °F	87 °F	35% EG	3.2 GPM	0.4 RH2O	140 °F	0.09 hp	115 V	1	60 Hz	1
UH-7	MODINE	HSB 24S	HORIZONTAL	16,200 Btu/h	370 CFM	65 °F	87 °F	35% EG	1.7 GPM	0.8 RH2O	140 °F	0.04 hp	115 V	1	60 Hz	1
UH-8	MODINE	HSB 24S	HORIZONTAL	16,200 Btu/h	370 CFM	65 °F	87 °F	35% EG	1.7 GPM	0.8 RH2O	140 °F	0.04 hp	115 V	1	60 Hz	1

233000 - HW REHEAT VAV SCHEDULE

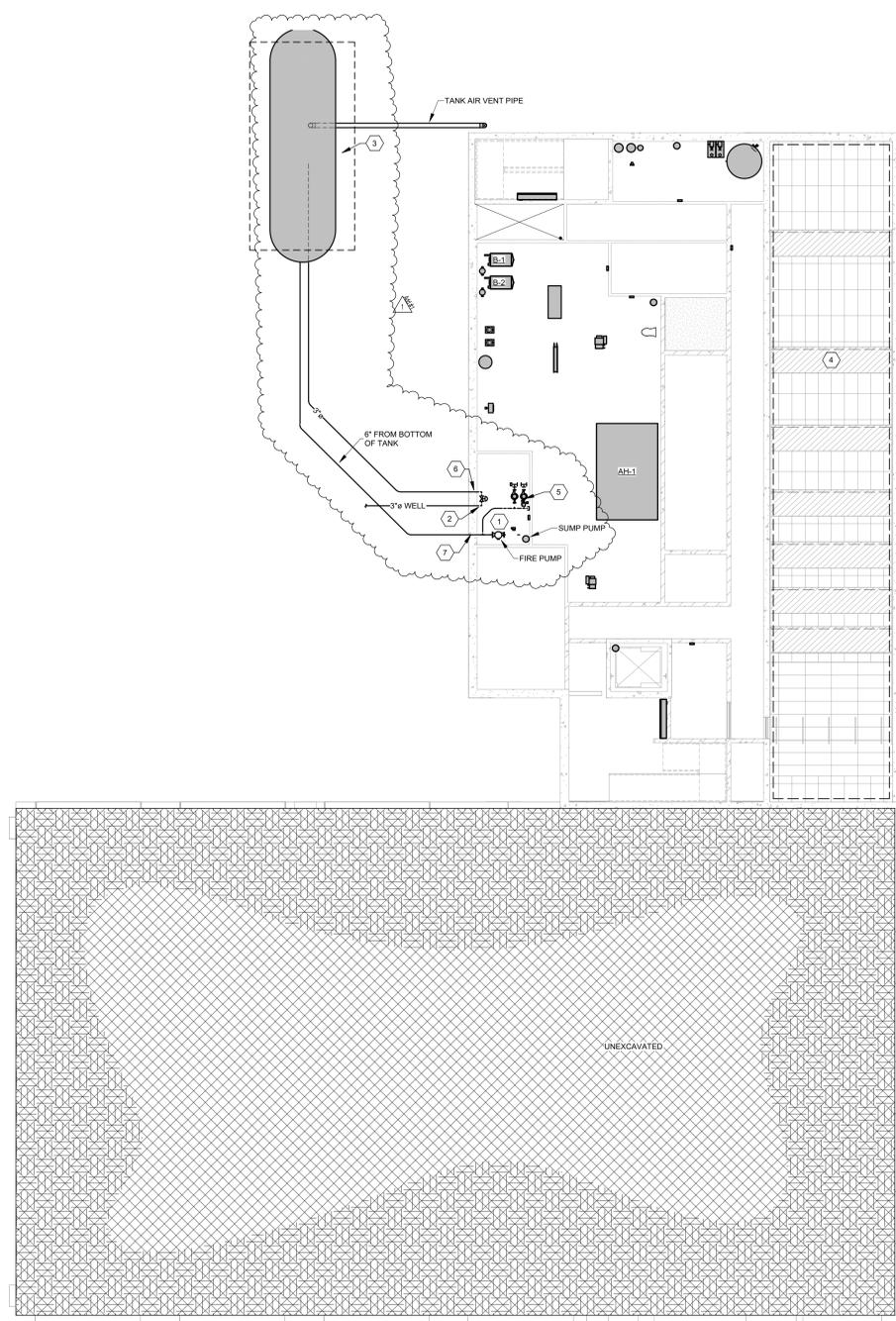
SCHEDULE NOTES:
 1. NOT USED

MARK	MANUFACTURER	MODEL	SIZE	CLG. MAX	CLG. MIN	AIRFLOW	HEATING	APD	ROWS	CAP	GPM	EWT	EAT	LAT	FPD	NOTES
VAV-004	Titus HVAC	DESV	Size 08	400 CFM	120 CFM	320 CFM	0.2 in-wg	2	13,900 Btu/h	0.8 GPM	170 °F	55 °F	95 °F	1	1 RH2O	
VAV-008	Titus HVAC	DESV	Size 10	700 CFM	210 CFM	560 CFM	0.2 in-wg	2	24,250 Btu/h	1.5 GPM	170 °F	55 °F	95 °F	1	1 RH2O	
VAV-101	Titus HVAC	DESV	Size 10	750 CFM	225 CFM	750 CFM	0.2 in-wg	2	45,250 Btu/h	2.7 GPM	170 °F	55 °F	110 °F	1	1 RH2O	
VAV-102	Titus HVAC	DESV	Size 10	750 CFM	225 CFM	750 CFM	0.2 in-wg	2	45,250 Btu/h	2.7 GPM	170 °F	55 °F	110 °F	1	1 RH2O	
VAV-103	Titus HVAC	DESV	Size 08	500 CFM	150 CFM	400 CFM	0.2 in-wg	2	21,660 Btu/h	1.3 GPM	170 °F	55 °F	105 °F	1	1 RH2O	
VAV-104	Titus HVAC	DESV	Size 08	200 CFM	60 CFM	160 CFM	0.2 in-wg	2	6,925 Btu/h	0.4 GPM	170 °F	55 °F	95 °F	1	1 RH2O	
VAV-105	Titus HVAC	DESV	Size 08	450 CFM	135 CFM	360 CFM	0.2 in-wg	2	19,500 Btu/h	1.2 GPM	170 °F	55 °F	105 °F	1	1 RH2O	
VAV-106	Titus HVAC	DESV	Size 08	650 CFM	195 CFM	520 CFM	0.2 in-wg	2	25,350 Btu/h	1.5 GPM	170 °F	55 °F	100 °F	1	1 RH2O	
VAV-107	Titus HVAC	DESV	Size 10	725 CFM	225 CFM	600 CFM	0.2 in-wg	2	23,000 Btu/h	1.6 GPM	170 °F	55 °F	95 °F	1	1 RH2O	
VAV-108	Titus HVAC	DESV	Size 08	400 CFM	120 CFM	320 CFM	0.2 in-wg	2	17,330 Btu/h	1 GPM	170 °F	55 °F	105 °F	1	1 RH2O	
VAV-110	Titus HVAC	DESV	Size 08	350 CFM	105 CFM	280 CFM	0.2 in-wg	2	15,180 Btu/h	0.9 GPM	170 °F	55 °F	105 °F	1	1 RH2O	
VAV-120	Titus HVAC	DESV	Size 06	325 CFM	100 CFM	260 CFM	0.2 in-wg	2	15,000 Btu/h	0.9 GPM	170 °F	55 °F</				

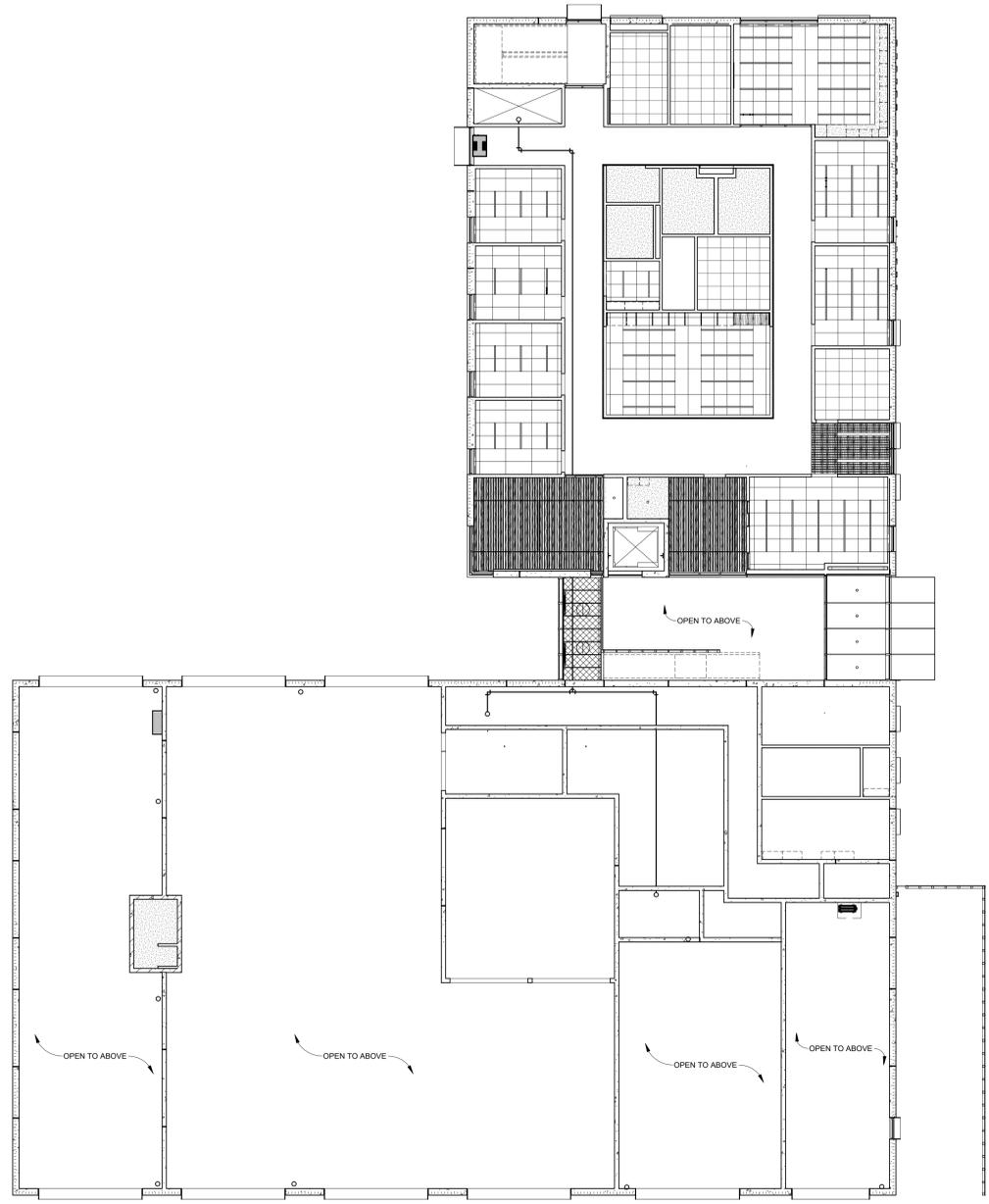
NO.	DESCRIPTION	DATE
1	Addendum #1	11/04/25

SPRINKLER HEAD LEGEND	
○	UPRIGHT HEAD
●	PENDENT HEAD
⊗	CONCEALED PENDENT HEAD
⊙	RECESSED HEAD
⊗	UPRIGHT HEAD W/ GUARD
⊙	PENDENT HEAD W/ GUARD
●	DRY PENDENT

KEYNOTE LEGEND	
1	FIRE PUMP AND JOCKEY PUMP SHALL BE INSTALLED IN PIT. BOTTOM OF PIT SHALL BE BELOW BOTTOM OF FIRE TANK. FIRE PROTECTION CONTRACTOR TO COORDINATE PIT FLOOR ELEVATIONS WITH CM PRIOR TO CONCRETE SET AND POUR.
2	COORDINATE WITH MECHANICAL CONTRACTOR FOR CONNECTION TO WELL PIPE INSIDE BUILDING. PROVIDE MOTORIZED FILL VALVE INSIDE PIT FOR FIRE TANK FILL. PROVIDE ISOLATION VALVES UPSTREAM AND DOWNSTREAM OF FILL VALVE. PROVIDE BACKFLOW PREVENTION TO WELL.
3	25,000 GALLON TANK BURIED AT 8'-0" BELOW GRADE. TANK BASIS OF DESIGN IS 10'-0" DIAMETER.
4	FIRING RANGE. MOUNT SPRINKLER HEADS WHERE PROTECTED FROM PROJECTILES.
5	TRUCK FILL PRESSURIZING PUMP BY MC. COORDINATE LAYOUT WITH MC. PROVIDE CONNECTION POINT FROM FIRE TANK OUTLET FOR SUPPLYING BOOSTER PUMP.
6	FILL PIPE FROM PUMP PIT TO FIRE TANK BY FIRE PROTECTION CONTRACTOR. CONTROLLER AND TANK LEVEL SENSOR FOR AUTOMATIC FILL BY FP CONTRACTOR.
7	PROVIDE MECHANICAL PIPE SEALS FOR EACH PIPE.



1
M501
3/32" = 1'-0"
BASEMENT FIRE PLAN



2
M501
3/32" = 1'-0"
LEVEL 1 FIRE PLAN

1:4:2025 2:00:14 PM



ADDENDUM

PE 25028 Dunn County Public Safety Center

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

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
26 5100 - LUMINAIRES	BB1	LUMINIS CL840	FC LIGHTING FCA5500 Series

DRAWINGS

- 1. E200 – BASEMENT LIGHTING PLAN
 - o Drawing 1/E200: Added additional lighting control locations, added keynotes, and added fixtures.
- 2. E201 – LEVEL 1 LIGHTING PLAN
 - o Drawing 1/E201: Added additional lighting control locations, added keynotes, and added fixtures.
- 3. E202 – LEVEL 2 LIGHTING PLAN
 - o Drawing 1/E201: Added additional lighting control locations and added keynotes.
- 4. E203 – LIGHTING DETAIL
 - o Fixture Schedule: Updated part numbers, added Type DD1, and approved equals.
- 5. E300 – BASEMENT POWER PLAN
 - o Drawing 1/E300: Updated hand dryer location.
- 6. E301 – LEVEL 1 POWER PLAN
 - o Drawing 1/E301: Added additional receptacle locations and updated mounting heights.

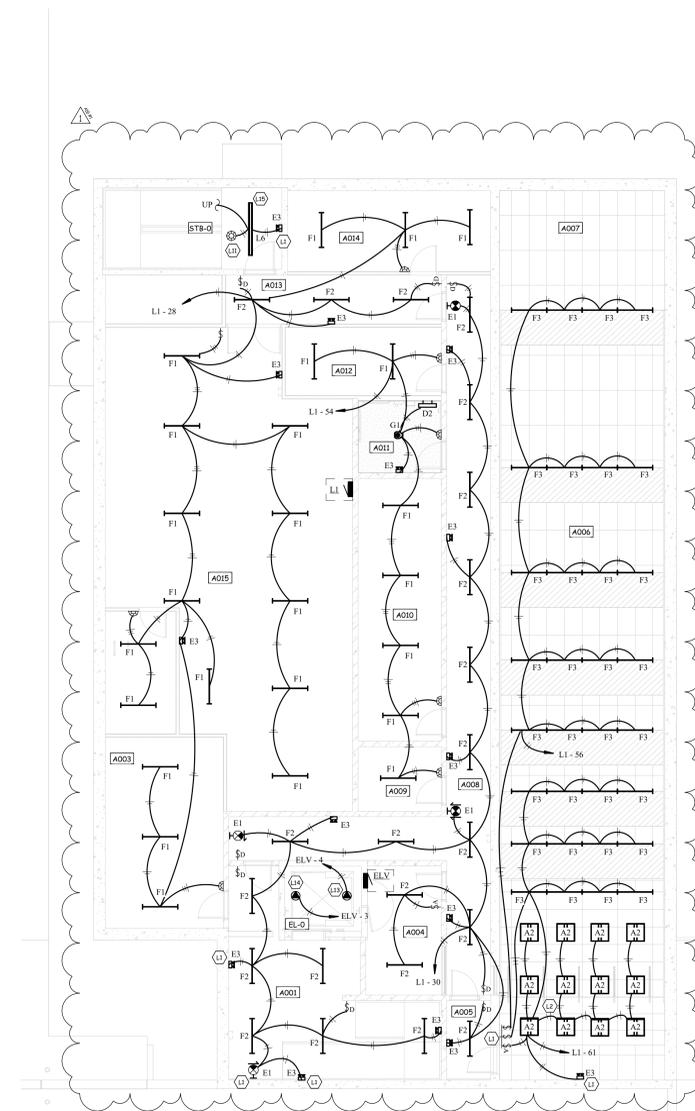
7. E302 – LEVEL 2 POWER PLAN
 - o Drawing 1/E302: Updated mounting heights.

8. E303 – POWER RISER AND PANEL SCHEDULES
 - o Panel Schedules: Updated breakers and added spares.

END OF ADDENDUM

Room Schedule		
Number	Name	Area
A001	SECURE ENTRY	150 SF
A002	HALLWAY	123 SF
A003	UNIFORM STORAGE	292 SF
A004	RANGE MASTER	124 SF
A005	AIR LOCK	45 SF
A006	SHOOTING LANES	1,592 SF
A007	BULLET TRAP	282 SF
A008	HALLWAY	410 SF
A009	GUN CLEANING	69 SF
A010	ARMORY	282 SF
A011	RESTROOM	76 SF
A012	STORAGE	137 SF
A013	HALLWAY	136 SF
A014	MECHANICAL	213 SF
A015	MECHANICAL	1,239 SF
A015A	FIRE PUMP	112 SF

Keynote Legend	
L1	PRECAST CONCRETE SUPPLIER SHALL INSTALL REQUIRED OUTLET BOX FLUSH IN WALL WITH 3/4" CONDUIT STUBBED UP ABOVE ACCESSIBLE CEILING SPACE OR NEAR ROOF STRUCTURE IN GYMNASIUM OR OTHER EXPOSED CEILING IN ROOMS. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH PRECAST SUPPLIER AND OTHER DIVISIONS FOR EXACT REQUIREMENTS AND LOCATIONS.
L2	BTD UNDER ALTERNATE NUMBER 6 ONLY.
L11	LINE POWERED WIRELESS OCCUPANCY SENSOR
L13	ELEVATOR CAB LIGHTING CIRCUIT. SEE SPECIFICATION SECTION 262822.
L14	ELEVATOR PIT LIGHT. SEE SPECIFICATION SECTION 262822.
L15	HANG FROM BOTTOM SIDE OF LANDING ABOVE. 9" AFF



1
E200
Lighting Plan - Basement
1/8" = 1'-0"



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REVISION SCHEDULE		
NO.	DESCRIPTION	DATE
1	Addendum 1	11/02/25

DUNN COUNTY
PUBLIC SAFETY CENTER
MANNING, ND

DATE
10/21/2025
PHASE
CONSTRUCTION
DOCUMENTS
PROJECT
PE 25028

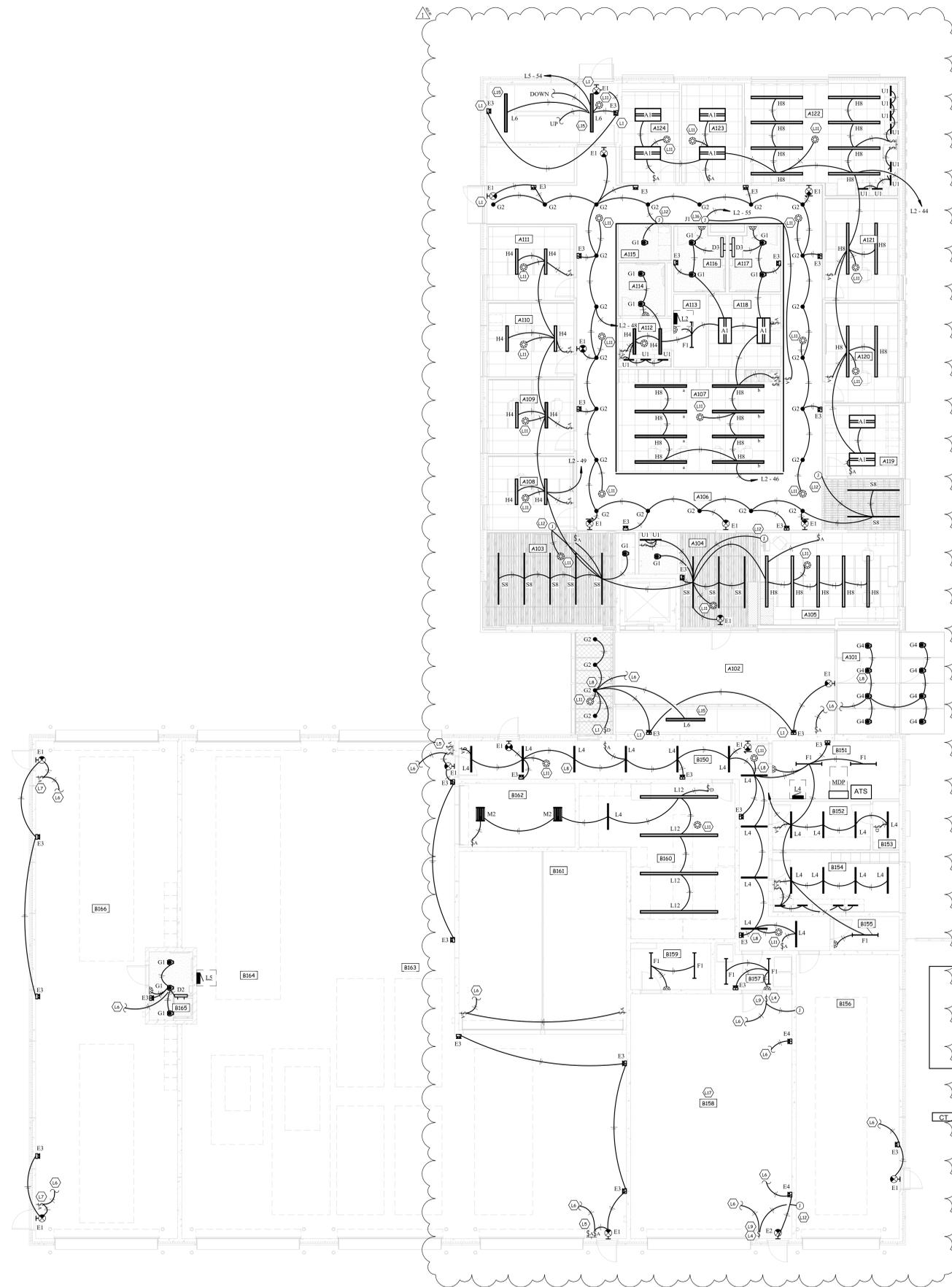
SHEET
E200
BASEMENT
LIGHTING PLAN



Prairie
Engineering P.C.
Professional Consulting Engineers

Room Schedule		
Number	Name	Area
A101	VESTIBULE	158 SF
A102	LOBBY	665 SF
A103	CONFERENCE ROOM	305 SF
A104	LOBBY	212 SF
A105	ADMIN	299 SF
A106	HALLWAY	1,250 SF
A107	PATROL WORKSTATIONS	432 SF
A108	DETECTIVE OFFICE	153 SF
A109	SARGENT SHARED OFFICE	153 SF
A110	TRUCK REG	153 SF
A111	WORKROOM	153 SF
A112	DT PROCESSING	62 SF
A113	CUSTODIAL	57 SF
A114	DRUG TESTING	59 SF
A115	INTOX.	45 SF
A116	RESTROOM	77 SF
A117	RESTROOM	70 SF
A118	EQUIP STORAGE	127 SF
A119	NIC / RECORD STORAGE	127 SF
A120	SHERIFF OFFICE	175 SF
A121	CHIEF DEPUTY OFFICE	179 SF
A122	BREAK ROOM	399 SF
A123	INTERVIEW	143 SF
A124	JUVENILE INTERVIEW	126 SF
B150	HALLWAY	460 SF
B151	ELECTRICAL	179 SF
B152	K-9 ROOM	115 SF
B153	DEA STORAGE	31 SF
B154	EVIDENCE PROCESSING	184 SF
B155	CUSTODIAL	54 SF
B156	EM BAY	711 SF
B157	LAUNDRY	71 SF
B158	WASH BAY	958 SF
B159	WASH BAY EQUIP	91 SF
B160	EVIDENCE STORAGE	473 SF
B161	EVIDENCE BAY	728 SF
B162	SM EVIDENCE	180 SF
B163	SHERIFF'S DEPARTMENT VEHICLES	2,439 SF
B164	RAPID DEPLOYMENT	1,688 SF
B165	RESTROOM	70 SF
B166	FIRE EQUIPMENT BAY	1,656 SF

Keynote Legend	
L1	PRECAST CONCRETE SUPPLIER SHALL INSTALL REQUIRED OUTLET BOX FLUSH IN WALL WITH 3/4" CONDUIT STUBBED UP ABOVE ACCESSIBLE CEILING SPACE OR NEAR ROOF STRUCTURE IN GYMNASIUM OR OTHER EXPOSED CEILINGS IN ROOMS. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH PRECAST SUPPLIER AND OTHER DIVISIONS FOR EXACT REQUIREMENTS AND LOCATIONS.
L4	PROVIDE WEATHER RESISTANT SWITCH AT THIS LOCATION. PROVIDE LINE POWERED WIRING TO WIRELESS RELAY(S) (NIGHT #RS1 OR WAVELINKS EQUIVALENT) OUTSIDE WASH BAY AREA.
L5	LINE POWERED WIRELESS SWITCH BANK CONTROLS ZONE 1 & 2 AS DESCRIBED ON SHEET E202.
L6	TO NEAREST LIGHTING CIRCUIT. SEE SHEET E202.
L7	LINE POWERED WIRELESS SWITCH. CONTROLS FIRE BAY ZONE DESCRIBED ON SHEET E202.
L8	UNSWITCHED.
L9	PROVIDE AND INSTALL WEATHERPROOF COVER FOR THIS SWITCH LOCATION.
L11	LINE POWERED WIRELESS OCCUPANCY SENSOR.
L12	PROVIDE WAVELINK WIRELESS OR NIGHT AIR WIRELESS POWERPACK/RELAY MODEL TO CONTROL LIGHT FIXTURES.
L15	HANG FROM BOTTOM SIDE OF LANDING ABOVE. 9' AFF
L16	PROVIDE WAVELINK WIRELESS OR NIGHT AIR WIRELESS POWERPACK/RELAY MODEL TO CONTROL TYPE J1 LIGHT FIXTURES. TYPE J1 CONSISTS OF 130 LINEAR FEET OF LED STRIP LIGHTING IN ANGLED CHANNEL AND SHALL BE DIMMABLE FROM THE SWITCH OUTSIDE THE SHERIFF OFFICE. PROVIDE ALL NECESSARY DRIVERS AND CABLING FOR SYSTEM AS REQUIRED.
L17	ALL WIRING/RACEWAY IN THE WASH BAY MUST BE INSTALLED AS PER THE NEC FOR A WET LOCATION.



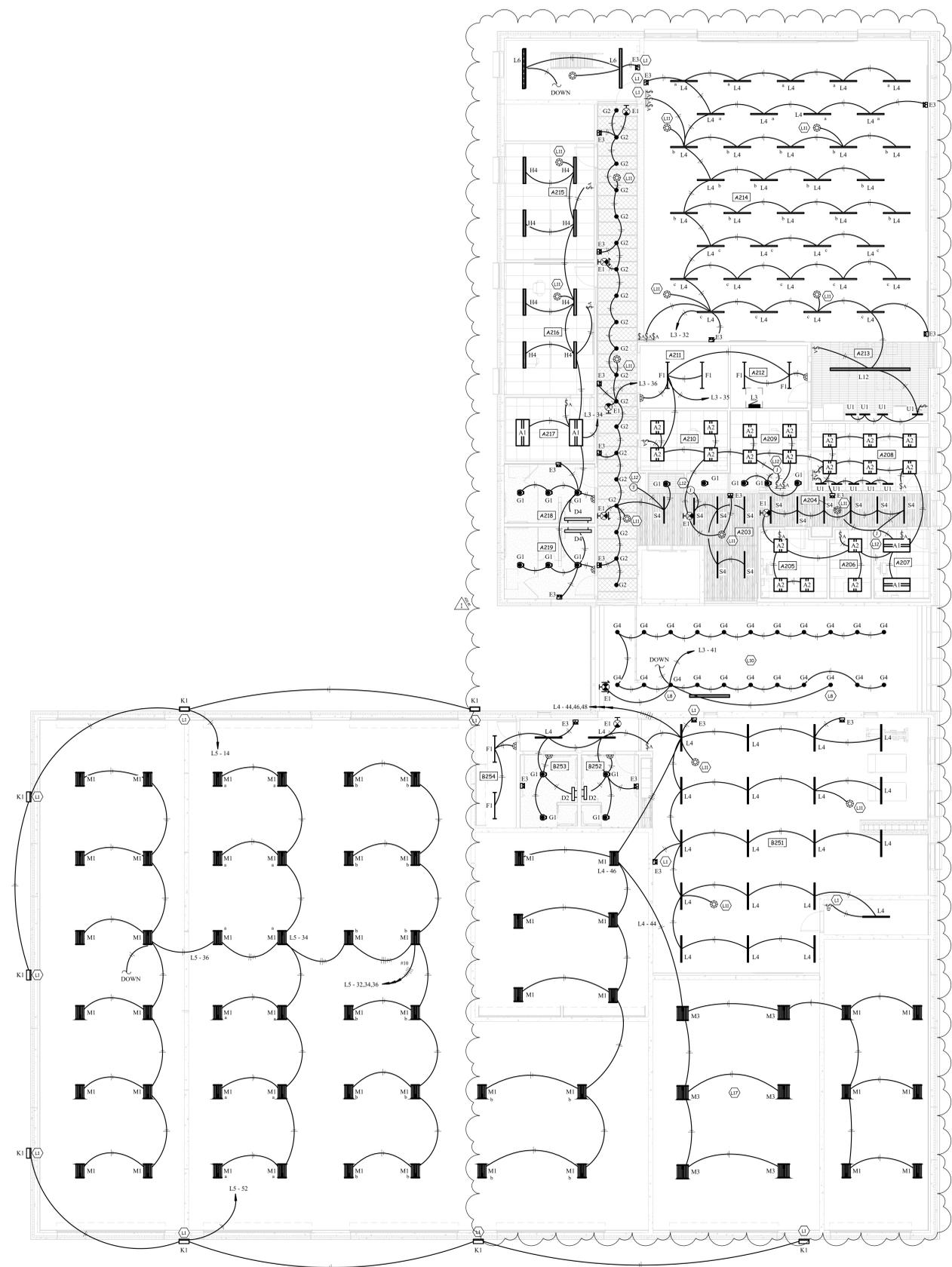
1
E201
Lighting Plan - Level 1
1/8" = 1'-0"

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE
1	Addendum 1	11/02/25

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Room Schedule		
Number	Name	Area
A102	LOBBY	665 SF
A201	BRIDGE	205 SF
A202	HALLWAY	244 SF
A203	LOBBY	166 SF
A204	HALLWAY	127 SF
A205	EXAM	98 SF
A206	STORAGE	62 SF
A207	EXAM	85 SF
A208	WORKROOM	180 SF
A209	OFFICE	139 SF
A210	CORNER	117 SF
A211	STORAGE	124 SF
A212	ELEC	108 SF
A213	BREAK ROOM	209 SF
A214	TRAINING ROOM / EOC	2,266 SF
A215	UNIFIED COMMAND	234 SF
A216	EM OFFICE	266 SF
A217	EM STORAGE	127 SF
A218	MEN	118 SF
A219	WOMEN	144 SF
B156	EM BAY	711 SF
B158	WASH BAY	958 SF
B163	SHERIFF'S DEPARTMENT VEHICLES	2,439 SF
B164	RAPID DEPLOYMENT	1,688 SF
B166	FIRE EQUIPMENT BAY	1,656 SF
B251	FITNESS AREA	1,442 SF
B252	RESTROOM	91 SF
B253	RESTROOM	91 SF
B254	STORAGE	102 SF
B255	STORAGE	85 SF

Keynote Legend	
L1	PRECAST CONCRETE SUPPLIER SHALL INSTALL REQUIRED OUTLET BOX FLUSH IN WALL WITH 3/4" CONDUIT STUBBED UP ABOVE ACCESSIBLE CEILING SPACE OR NEAR ROOF STRUCTURE IN GYMNASIUM OR OTHER EXPOSED CEILINGS IN ROOMS. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH PRECAST SUPPLIER AND OTHER DIVISIONS FOR EXACT REQUIREMENTS AND LOCATIONS.
L8	UNSWITCHED.
L10	ENTRY LIGHTS TO BE SCHEDULED ON DURING NORMAL BUSINESS HOURS OR OVERRIDE ON VIA SWITCH OR OCCUPANCY SENSOR.
L11	LINE POWERED WIRELESS OCCUPANCY SENSOR.
L12	PROVIDE WAVELINK WIRELESS OR NLIGHT AIR WIRELESS POWERPACK/RELAY MODEL TO CONTROL LIGHT FIXTURES.
L17	ALL WIRING/RACEWAY IN THE WASH BAY MUST BE INSTALLED AS PER THE NEC FOR A WET LOCATION.



1
E202
Lighting Plan - Level 2
1/8" = 1'-0"



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REVISION SCHEDULE		
NO.	DESCRIPTION	DATE
1	Addendum 1	11/02/25

DUNN COUNTY
PUBLIC SAFETY CENTER
MANNING, ND

DATE
10/21/2025
PHASE
CONSTRUCTION
DOCUMENTS
PROJECT
PE 25028

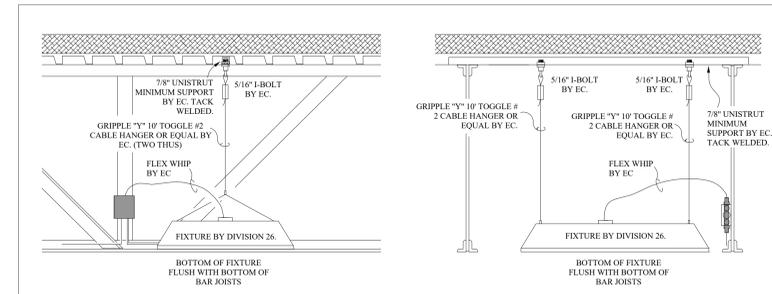
SHEET
E202
LEVEL 2 LIGHTING
PLAN



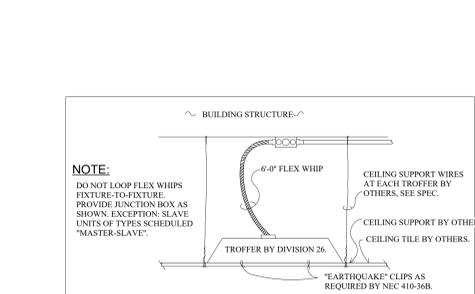
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FIXTURE SCHEDULE						
TYPE	MANUFACTURER	CATALOG NO.	DELIVERED LUMENS	FINISH	MOUNTING	REMARKS
A1	METALUX MARK ARCHITECTURAL	24RLN LD5 40 UNV L840 CD 1 WPS WHSPR LCTR SERIES	6,000	WHITE	SD 2'E203	2 X 4 LED ARCHITECTURAL TROFFER WITH WIRELESS CONTROL LED DIMMING, OCCUPANCY SENSOR, AND PHOTOCELL. 4000K
A2	METALUX MARK ARCHITECTURAL	22RLN LD5 44 UNV L840 CD 1 WPS WHSPR LCTR SERIES	4,400	WHITE	SD 2'E203	2 X 2 LED ARCHITECTURAL TROFFER WITH WIRELESS CONTROL LED DIMMING, OCCUPANCY SENSOR, AND PHOTOCELL. 4000K
D2	FAIL SAFE LUMINAIRE LED	HVSL4 2 LD4 2 LO 40 UNV O ED1 BK SPC4 SERIES	2,000	BLACK	WALL MOUNTED	2 LED WALL BRACKET WITH OPAL LENS AND VERTICAL TRIM BARS. 4000K
D3	FAIL SAFE LUMINAIRE LED	HVSL4 3 LD4 2 LO 40 UNV O ED1 BK SPC4 SERIES	4,000	BLACK	WALL MOUNTED	3 LED WALL BRACKET WITH OPAL LENS AND VERTICAL TRIM BARS. 4000K
D4	FAIL SAFE LUMINAIRE LED	HVSL4 2 LD4 2 LO 40 UNV O ED1 BK SPC4 SERIES	6,000	BLACK	WALL MOUNTED	4 LED WALL BRACKET WITH OPAL LENS AND VERTICAL TRIM BARS. 4000K
E1	EVENLITE ISOLITE	AUR U BA DTH2-48-MTEB	INTEGRAL LEDS	BRUSHED ALUMINUM	NOTE 1	UNIVERSAL FACE AND MOUNT WITH GREEN LETTERS, ALUMINUM HOUSING, AND PHOTOLUMINESCENT DISPLAY.
E2	MULE LIGHTING EVENLITE	WLMX 1/2 A G WH SD TWL SERIES	INTEGRAL LEDS	WHITE	NOTE 1	UNIVERSAL FACE AND MOUNT LED EXT WITH GREEN LETTERS, AND SELF-DIAGNOSTICS. WET LISTED.
E3	MULE LIGHTING EVENLITE	SSL-HO W SD TCL SERIES	INTEGRAL LEDS	WHITE	NOTE 1	DECORATIVE EMERGENCY LED FIXTURE WITH SELF-DIAGNOSTICS.
E4	MULE LIGHTING EVENLITE	MRD-WL TCVS SERIES	INTEGRAL LEDS	WHITE	NOTE 1	DECORATIVE EMERGENCY LED FIXTURE WITH SELF-DIAGNOSTICS. WET LISTED.
F1	LITHONIA METALUX	ZL1D L48 7000LM FST MVOLT 40K 80CRI WH 45NX-675L-LN-UNV-L840- CD-U	7,000	WHITE	NOTE 3	4 LED STRIP LIGHT. 4000K
F2	LITHONIA METALUX	ZL1D L48 7000LM FST MVOLT 40K 80CRI WH NLTAR2 RLSXR10 45NX-675L-LN-UNV-L840- CD-U	7,000	WHITE	NOTE 3	4 LED STRIP LIGHT WITH WIRELESS OCCUPANCY SENSOR AND CONTROL. 4000K
F3	LITHONIA METALUX	ZL1D L48 7000LM FST MVOLT 40K 80CRI WH 45NX-675L-LN-UNV-L840- CD-U	7,000	WHITE	NOTE 3	SAME AS F1 EXCEPT MOUNTING TYPE.
G1	HALO COMMERCIAL LITHONIA	HC6 20 D010 H146 0525 840 61 WD H LDN6 SERIES	2,000	SEMI-SPECULAR SILVER	RECESSED CEILING	6" LED DOWNLIGHT WITH WIDE DISTRIBUTION. 4000K
G2	HALO COMMERCIAL LITHONIA	HCC68 50 D010 MB WPN H16C 450 840 61 WD H LDN6 CYLINDER SERIES	5,000	BLACK	SURFACE CEILING	6" LED CYLINDER WITH WIDE DISTRIBUTION AND WIRELESS CONTROLS. 4000K
G3	SPECTRUM LIGHTING SSL	CF0618PC 50L 40K WD PM18 MSR SERIES	5,000	BLACK	SURFACE CEILING	18" TALL LED CYLINDER WITH WIDE DISTRIBUTION AND REMOTE DRIVER. 4000K
G4	HALO COMMERCIAL LITHONIA	HC6 30 D010 WPN H166 3040 840 61 WD H LDN6 SERIES	3,000	SEMI-SPECULAR SILVER	RECESSED CEILING	6" LED DOWNLIGHT WITH WIDE DISTRIBUTION. WET LOCATION LISTED AND WIRELESS CONTROL. 4000K
H4	NEORAY MARK ARCHITECTURAL	S124DR-S102D666-FTG4FO-I- L400-F-W-WPN SLOT 4 SERIES	1,000FT	WHITE	RECESSED CEILING	4" WIDE LINEAR LED WITH WIRELESS CONTROLS. 4000K
H8	NEORAY MARK ARCHITECTURAL	S124DR-S102D666-FTG8FO-I- L400-F-W-WPN SLOT 4 SERIES	1,000FT	WHITE	RECESSED CEILING	4" WIDE LINEAR LED WITH WIRELESS CONTROLS. 4000K
J1	ACCLAIM WAC	FLEX10H FLX35D 1/2M FLX35D 1/2M T24-C56 SERIES	500FT	ALUMINUM	ANGLED DOWN AT 9° AFF	LED TAPE LIGHT WITH OPAL LENS IN ANGLED CHANNEL. INCLUDE ALL DRIVERS AND ACCESSORIES FOR A COMPLETE INSTALLATION.
K1	SPRING LIGHTING GROUP LITHONIA	WV1 L5150 G2 FSK B MSB-DCE-06-W-BT5.0 WDGE SERIES	12,000	BLACK	WALL MOUNT 18 AFO	WEDGE SHAPE ARCHITECTURAL LED WALL PACK WITH INTEGRAL BE-LEVEL MOTION SENSOR WITH PRE-PROGRAMMED PHOTOCELL FOR DUSK TO DAWN OPERATIONS. 4000K
L4	NEORAY MARK ARCHITECTURAL	S124DIP-C795D365U840-C4IB- B-4FO-1-U-DD-F-B-WPN SLOT 4 SERIES	800FT DOWN 300FT UP	BLACK	CABLE MOUNT 11' AFF	4" WIDE DIRECT/INDIRECT LINEAR FIXTURE WITH DIMMING AND WIRELESS CONTROLS. 4000K
L6	NEORAY MARK ARCHITECTURAL	S124DIP-C795D365U840-C4IB- B-6FO-1-U-DD-F-B-WPN SLOT 4 SERIES	800FT DOWN 300FT UP	BLACK	CABLE MOUNT 11' AFF	4" WIDE DIRECT/INDIRECT LINEAR FIXTURE WITH DIMMING AND WIRELESS CONTROLS. 4000K
L12	NEORAY MARK ARCHITECTURAL	S124DIP-C795D365U840-C4IB- B-12FO-1-U-DD-F-B-WPN SLOT 4 SERIES	800FT DOWN 300FT UP	BLACK	CABLE MOUNT 11' AFF	4" WIDE DIRECT/INDIRECT LINEAR FIXTURE WITH DIMMING AND WIRELESS CONTROLS. 4000K
M1	LITHONIA METALUX	IBG 18000LM SEF PFL GND MVOLT GZ10 40K 80CRI NLTAR2 RLSXR6 VHB SERIES	18,000	BLACK	SD 4'E203	LED HIGH BAY FIXTURE WITH LENS, WIRELESS CONTROLLED DIMMING, HIGH MOUNT OCCUPANCY SENSOR, AND PHOTOCELL. 4000K
M2	LITHONIA METALUX	IBG 12000LM SEF PFL GND MVOLT GZ10 40K 80CRI NLTAR2 RLSXR10 VHB SERIES	12,000	BLACK	SD 5'E203	LED HIGH BAY FIXTURE WITH LENS, WIRELESS CONTROLLED DIMMING, LOW MOUNT OCCUPANCY SENSOR, AND PHOTOCELL. 4000K
M3	LITHONIA LUX DYNAMICS	X18 L24 24000LM FRGL MVOLT GZ10 40K 80CRI NLTAR2 RLSXR10 L-S-A-860-2.10-WA-10Y- BLKG(WAVELINX)-WET	24,000	BLACK	SD 4'E203	WET LOCATION LED HIGH BAY FIXTURE WITH LENS, WIRELESS CONTROLLED DIMMING, OCCUPANCY SENSOR, AND PHOTOCELL. 4000K
S4	AXIS LUMENWERX	SL3 500 80 40 50 L4 C DP 1 UR SHLUS3 SERIES	800FOOT	PER ARCHITECT	RECESSED IN WOOD CEILING	RECESSED LINEAR 3" SLIM FIXTURE. FIELD VERIFY EXACT LOCATION. COORDINATE INSTALLATION WITH WOOD SLAT CEILING INSTALLER. LOCATE REMOTE DRIVERS IN ACCESSIBLE LOCATIONS.
S8	AXIS LUMENWERX	SL3 500 80 40 50 L8 C DP 1 UR SHLUS3 SERIES	800FOOT	PER ARCHITECT	RECESSED IN WOOD CEILING	SAME AS S4 EXCEPT 8 FOOT.
U1	HALO AEL	HU30M SCTD 24 P MEMLNK SERIES	600	PER ARCHITECT	COORDINATE WITH CABINET INSTALLER	2 LED UNDER CABINET FIXTURE. PROVIDE SPLICE BOX AND DAISY CHAIN CONNECTORS AS REQUIRED FOR A COMPLETE INSTALLATION. 4000K
AA1	LITHONIA LUMARK	RX3 LED P3 40K R4 MVOLT RPA NLTAR2 PRH3 DOBXD RFS30-FR DMX AS FDLGFCH PRV-AL-P480-760-LTAW- SA-BK-WPS4BK RTS-39-9011-AB-XX-BK-VD- GRLFC	40,000	BLACK	SD 3'E100 NOTE 2	ARCHITECTURAL AREA LUMINAIRE WITH TYPE 4 DISTRIBUTION, WIRELESS CONTROL SYSTEM, AND INTEGRAL OCCUPANCY SENSOR. NOTE 2
BB1	LUMINIS ZUMA	CL840 LK60 CLP868 40K MVOLT PH ADE-C-08-120-55W-U-T360- FA-XXX-BK-PC	6,000	BLACK	SD 4'E100	POLE TYPE LUMINAIRE WITH INTEGRAL PHOTOCELL.
CC1	POLELED	EXTENDED W/HALYARD	5,000	ALUMINUM	FLAG POLE MOUNT	FLAG POLE LIGHT. PROVIDE HALYARD SYSTEM AND INCLUDE REQ'D DRIVERS. 4000K.
DD1	ACCLAIM	F2H-224-1-RN	250FT	NA	SEE DETAIL 2D-A510	R6GW WET LOCATION LED TAPE LIGHT. INCLUDE ALL DRIVERS AND ACCESSORIES FOR A COMPLETE INSTALLATION. DMX CONTROLLED.

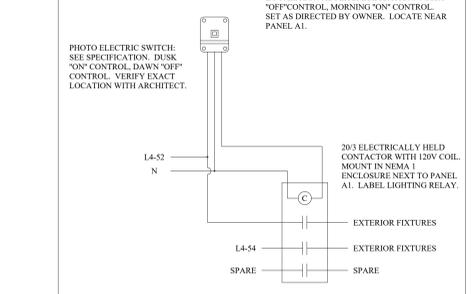
NOTES:
 1. WALL MOUNT DIRECTLY ABOVE EXIT DOOR WHERE POSSIBLE. CEILING OR END MOUNT IN REMAINING LOCATIONS AS DICTATED BY BUILDING CONDITIONS.
 2. LUMINAIRE QUANTITY AND ORIENTATION AS SHOWN ON DRAWINGS.
 3. FIXTURE SHALL BE MOUNTED TO THE DOWN RANGE SIDE OF THE SHOOTING RANGE BAFFLES. SHOOTING RANGE SUPPLIER WILL PROVIDE BRACKET FOR SURFACE MOUNT INSTALLATION.



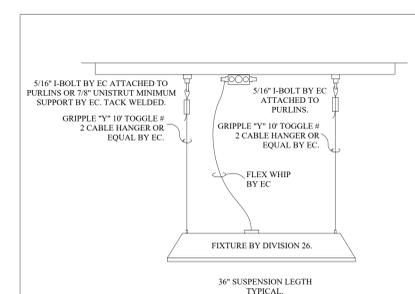
1 HIGH BAY MOUNTING DETAIL
1/8" = 1'-0"



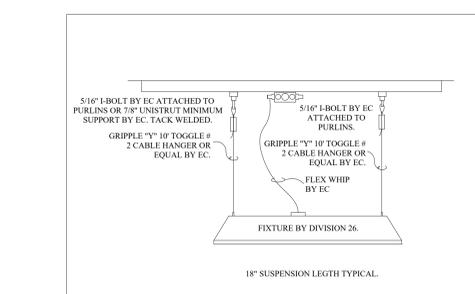
2 TROFFER INSTALLATION DETAIL
1/8" = 1'-0"



3 EXTERIOR LIGHTING CONTROL
1/8" = 1'-0"



4 TYPE M1 & M3 MOUNTING DETAIL
1/8" = 1'-0"



5 TYPE M2 MOUNTING DETAIL
1/8" = 1'-0"

LIGHTING SWITCH SCHEDULE
 BASED ON ALIQUOT PART NUMBERS (OR EQUAL SYSTEM BY WAHLINS)

SYMBOL	DESCRIPTION	PART #
\$A	LINE POWERED WALL SWITCH, ON/OFF, BASE/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, BASE/LOWER DIMMING CONTROL, AND CCT CONTROL	RP00M-2P-DX-CCT
\$D	LINE POWERED WALL SWITCH, ON/OFF	RP00LA
\$E	LINE POWERED WALL SWITCH, 2-POLE ON/OFF	RP00LA-2P
\$F	WALL MOUNTED OCCUPANCY SENSOR - SEE SPECIFICATION SECTION 26276	RP00LA-2P
\$G	WALL MOUNTED OCCUPANCY SENSOR (TYPE D) WITH DIMMING CONTROL - SEE SPECIFICATION SECTION 26276	
\$H	CEILING MOUNTED OCCUPANCY SENSOR - SEE SPECIFICATION SECTION 26276	

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REVISION SCHEDULE

NO.	DESCRIPTION	DATE
1	Addendum 1	11/02/25

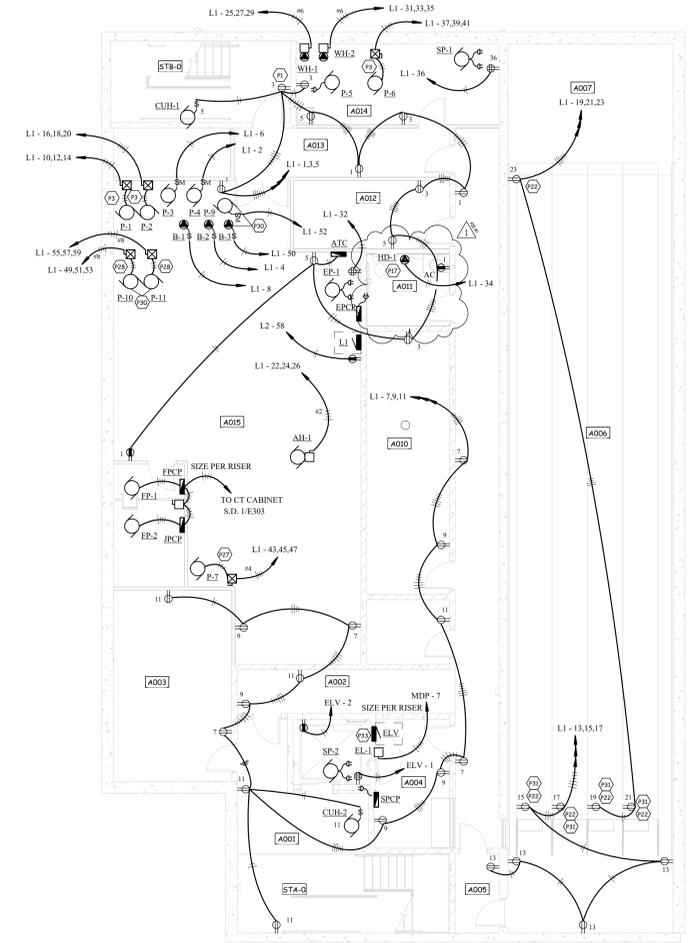
DUNN COUNTY PUBLIC SAFETY CENTER
 MANNING, ND

DATE: 10/21/2025
 PHASE: CONSTRUCTION DOCUMENTS
 PROJECT: PE 25028
 SHEET: E203
 LIGHTING DETAIL

Prairie Engineering P.C.
 Professional Consulting Engineers

Room Schedule		
Number	Name	Area
A001	SECURE ENTRY	150 SF
A002	HALLWAY	123 SF
A003	UNIFORM STORAGE	292 SF
A004	RANGE MASTER	124 SF
A005	AIR LOCK	45 SF
A006	SHOOTING LANES	1,592 SF
A007	BULLET TRAP	282 SF
A008	HALLWAY	410 SF
A009	GUN CLEANING	69 SF
A010	ARMORY	282 SF
A011	RESTROOM	76 SF
A012	STORAGE	137 SF
A013	HALLWAY	136 SF
A014	MECHANICAL	213 SF
A015	MECHANICAL	1,239 SF
A015A	FIRE PUMP	112 SF

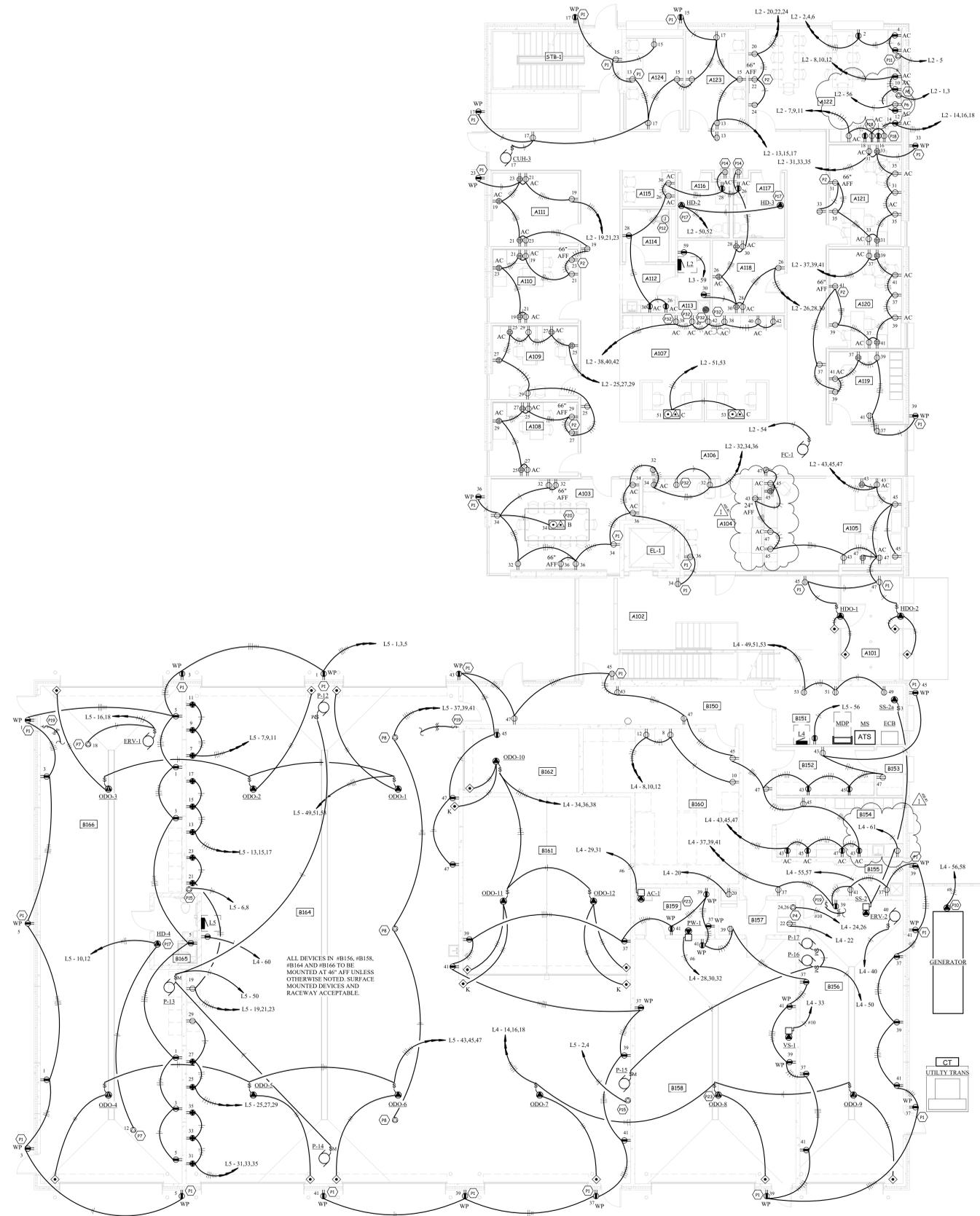
Keynote Legend	
P1	PRECAST CONCRETE SUPPLIER SHALL INSTALL REQUIRED OUTLET BOX FLUSH IN WALL WITH 3/4" CONDUIT STUBBED UP ABOVE ACCESSIBLE CEILING SPACE OR NEAR ROOF STRUCTURE IN DEPLOYMENT BAYS OR OTHER EXPOSED CEILINGS IN ROOMS. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH PRECAST SUPPLIER AND OTHER DIVISIONS FOR EXACT REQUIREMENTS AND LOCATIONS.
P3	PROVIDE AND INSTALL BELDEN MODEL# 29502, OR EQUIVALENT, VFD CABLE IN 1" CONDUIT BETWEEN VFD AND MOTOR. SD 3/E304 AND SPECIFICATION 260519 FOR FURTHER DETAILS.
P17	PROVIDE ELECTRICAL CONNECTION TO ELECTRIC HAND DRYER. COORDINATE DEVICE HEIGHT WITH G.C.
P22	PROVIDE RECEPTACLE AT 8' AFF FOR SHOOTING LANE CONTROL/SERVICE. VERIFY EXACT LOCATION WITH EQUIPMENT PROVIDER.
P27	PROVIDE AND INSTALL BELDEN MODEL# 29506, OR EQUIVALENT, VFD CABLE IN 1-1/2" CONDUIT BETWEEN VFD AND MOTOR. SD 3/E304 AND SPECIFICATION 260519 FOR FURTHER DETAILS.
P28	PROVIDE AND INSTALL BELDEN MODEL# 29504, OR EQUIVALENT, VFD CABLE IN 1-1/4" CONDUIT BETWEEN VFD AND MOTOR. SD 3/E304 AND SPECIFICATION 260519 FOR FURTHER DETAILS.
P30	ADD UNDER ALTERNATE 2.
P31	ADD UNDER ALTERNATE 6.
P33	SEE DETAIL 2/E304 FOR ADDITIONAL ELEVATOR INFORMATION.



1
E300
Power Plan - Basement
1/8" = 1'-0"

Room Schedule		
Number	Name	Area
A101	VESTIBULE	158 SF
A102	LOBBY	665 SF
A103	CONFERENCE ROOM	305 SF
A104	LOBBY	212 SF
A105	ADMIN	299 SF
A106	HALLWAY	1,250 SF
A107	PATROL WORKSTATIONS	432 SF
A108	DETECTIVE OFFICE	153 SF
A109	SARGENT SHARED OFFICE	153 SF
A110	TRUCK REIS	153 SF
A111	WORK ROOM	153 SF
A112	DT PROCESSING	62 SF
A113	CUSTODIAL	57 SF
A114	DRUG TESTING	59 SF
A115	INTOX.	45 SF
A116	RESTROOM	77 SF
A117	RESTROOM	70 SF
A118	EQUIP STORAGE	127 SF
A119	INIC / RECORD STORAGE	127 SF
A120	SHERIFF OFFICE	176 SF
A121	CHIEF DEPUTY OFFICE	179 SF
A122	BREAK ROOM	399 SF
A123	INTERVIEW	143 SF
A124	JUVENILE INTERVIEW	126 SF
B150	HALLWAY	460 SF
B151	ELECTRICAL	179 SF
B152	K-9 ROOM	115 SF
B153	DEA STORAGE	31 SF
B154	EVIDENCE PROCESSING	184 SF
B155	CUSTODIAL	54 SF
B156	EM BAY	711 SF
B157	LAUNDRY	71 SF
B158	WASH BAY	958 SF
B159	WASH BAY EQUIP	91 SF
B160	EVIDENCE STORAGE	473 SF
B161	EVIDENCE BAY	728 SF
B162	SM EVIDENCE	180 SF
B163	SHERIFF'S DEPARTMENT VEHICLES	2,439 SF
B164	RAPID DEPLOYMENT	1,688 SF
B165	RESTROOM	70 SF
B166	FIRE EQUIPMENT BAY	1,656 SF

Keynote Legend	
P1	PRECAST CONCRETE SUPPLIER SHALL INSTALL REQUIRED OUTLET BOX FLUSH IN WALL WITH 3/4" CONDUIT STUBBED UP ABOVE ACCESSIBLE CEILING SPACE OR NEAR ROOF STRUCTURE IN DEPLOYMENT BAYS OR OTHER EXPOSED CEILING IN ROOMS. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH PRECAST SUPPLIER AND OTHER DIVISIONS FOR EXACT REQUIREMENTS AND LOCATIONS.
P2	PROVIDE WIREMOLD #EFS82, OR EQUIVALENT TWO COMPARTMENT RECESSES WALL BOX. MATCH LOCATIONS WITH NOTE 58.
P4	PROVIDE AND INSTALL NEMA 14-30R RECEPTACLE FOR DRYER. E.C. TO PROVIDE RANGE CORD AND PLUG AS REQUIRED.
P5	PROVIDE AND INSTALL NEMA 14-50R RECEPTACLE FOR RANGE. E.C. TO PROVIDE RANGE CORD AND PLUG AS REQUIRED.
P6	CONNECT TO RANGE HOOD AND HOOD LIGHTS. 72" AFF TYPICAL
P7	INDUSTRIAL POWER CORD REEL: #12 AWG 3-CONDUCTOR (ONE HOT, ONE NEUTRAL, ONE GROUND) TYPE SO CABLE WITH 40-50' TRAVEL, CABLE STOP, CABLE LOCKING RATCHET, ROLLER GUIDE, 6FCI PROTECTION, AND TERMINATED IN A DOUBLE DUPLEX BOX. HUBBELL MODEL# HBL45123C20 OR EQUIVALENT. SET CORD STOP TO HOLD RECEPTACLE AT 7' AFF. PROVIDE NEMA L5-20R RECEPTACLE AT THE CEILING AND NEMA L5-20R CORD END FOR THE REEL.
P8	INDUSTRIAL POWER CORD REEL: #12 AWG 3-CONDUCTOR (ONE HOT, ONE NEUTRAL, ONE GROUND) TYPE SO CABLE WITH 40-50' TRAVEL, CABLE STOP, CABLE LOCKING RATCHET, ROLLER GUIDE, 6FCI PROTECTION, AND TERMINATED IN A DOUBLE DUPLEX BOX. HUBBELL MODEL# HBL45123C20M1 OR EQUIVALENT. SET CORD STOP TO HOLD RECEPTACLE AT 7' AFF. PROVIDE NEMA L5-20R RECEPTACLE AT THE CEILING AND NEMA L5-20R CORD END FOR THE REEL.
P10	PROVIDE CONNECTION TO GENERATOR ENCLOSURE LOADCENTER FOR BATTERY CHARGER AND HEATER.
P11	MOUNT RECEPTACLE IN ADJACENT BASE CABINET. FIELD COORDINATE WITH G.C. AND CABINET SUPPLIER TO CUT GROMMET HOLE IN CABINET FOR WIRING. E.C. TO PROVIDE 6FT APPLIANCE CORD FOR DISHWASHER.
P12	SD 5/E304 FOR ELECTRIC FLUSH VALVE ROUGH-IN AND WIRING INFORMATION. CONNECT TRANSFORMER TO ROOM CONVENIENCE RECEPTACLE CIRCUIT FOR POWER. PROVIDE OVERRIDE SWITCH TO DISABLE FLUSHING WHEN TESTING IS BEING PERFORMED
P14	LOAD SIDE 6FCI
P15	PROVIDE NEMA 6-50R RECEPTACLE AT 46" AFF FOR WELDER. VERIFY EXACT LOCATION WITH OWNER.
P17	PROVIDE ELECTRICAL CONNECTION TO ELECTRIC HAND DRYER. COORDINATE DEVICE HEIGHT WITH G.C.
P18	PROVIDE A NEMA 5-20 RECEPTACLE FOR THE MICROWAVE. E.C. TO COORDINATE HEIGHT WITH CASEWORK. 24" AFF TYPICAL.
P19	INSTALL FAN SPEED CONTROLLER AT THIS LOCATION AND PROVIDE THE CONTROL CABLE TO THE FAN(S) IN THIS ROOM AS PER MANUFACTURERS INSTRUCTIONS.
P20	SEE DETAIL L/E404 OR 2/E404 FOR MTR FLOOR BOX.
P23	ALL WIRING/RACEWAY IN THE WASH BAY MUST BE INSTALLED AS PER THE NEC FOR A WET LOCATION.
P32	COORDINATE LOCATION IN CASEWORK WITH CASEWORK VENDOR. ADJUST HEIGHT AS REQUIRED AND NEATLY CUT CASEWORK AND EXTEND BOX INTO THE CABINET AS REQUIRED.



1
E301
1/8" = 1'-0"
Power Plan - Level 1



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REVISION SCHEDULE		
NO.	DESCRIPTION	DATE
1	Addendum 1	11/02/25

DUNN COUNTY
PUBLIC SAFETY CENTER
MANNING, ND

DATE	10/21/2025
PHASE	CONSTRUCTION DOCUMENTS
PROJECT	PE 25028
SHEET	E301
LEVEL 1 POWER PLAN	

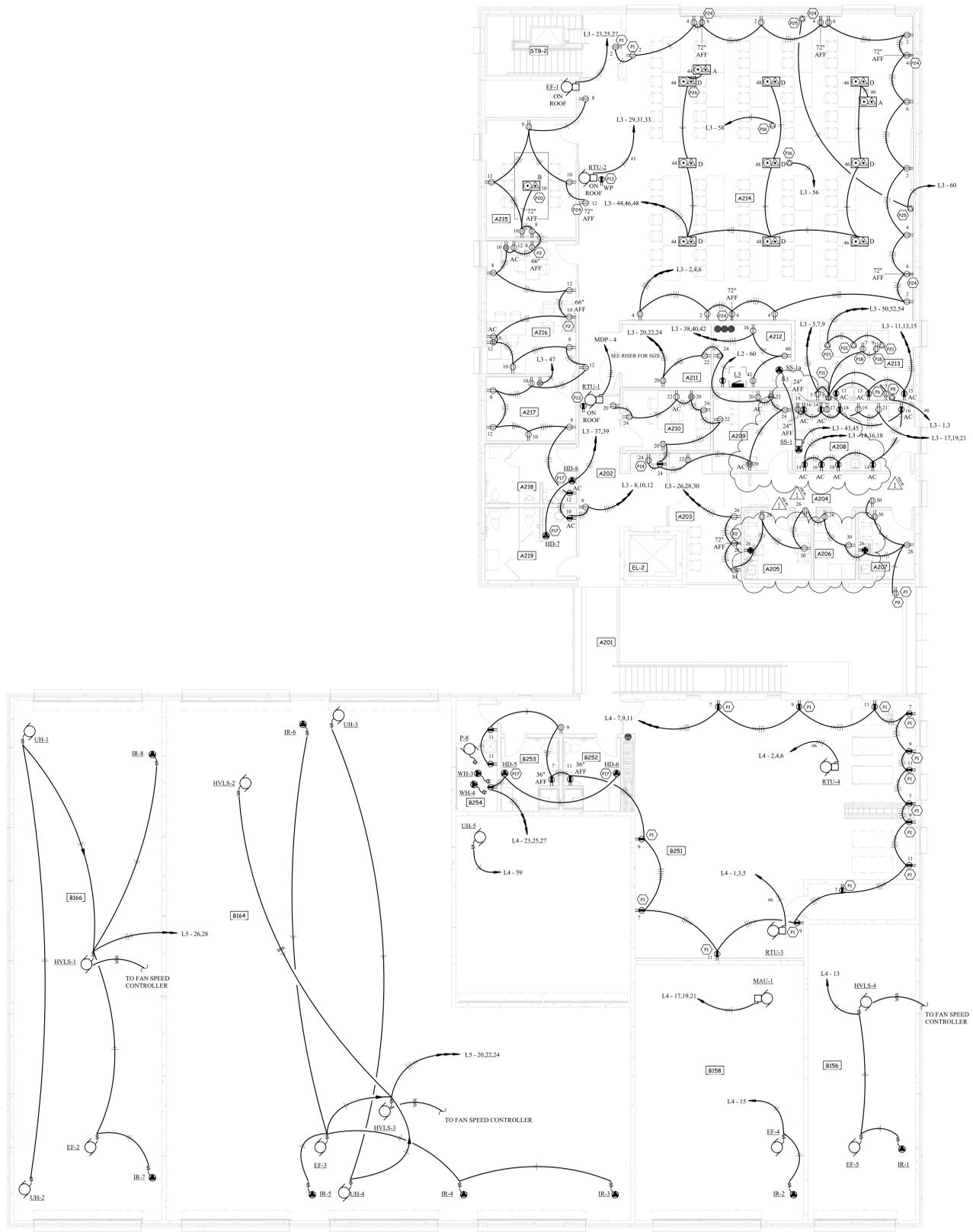
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NO.	DESCRIPTION	DATE
1	Addendum 1	11/02/25

DUNN COUNTY
PUBLIC SAFETY CENTER
MANNING, ND

DATE	10/21/2025
PHASE	CONSTRUCTION DOCUMENTS
PROJECT	PE 25028
SHEET	E302
LEVEL 2 POWER PLAN	



Number	Name	Area
A102	LOBBY	665 SF
A201	BRIDGE	205 SF
A202	HALLWAY	244 SF
A203	LOBBY	166 SF
A204	HALLWAY	127 SF
A205	EXAM	98 SF
A206	STORAGE	62 SF
A207	EXAM	85 SF
A208	WORKROOM	180 SF
A209	OFFICE	139 SF
A210	CORNER	117 SF
A211	STORAGE	124 SF
A212	ELEC	108 SF
A213	BREAK ROOM	209 SF
A214	TRAINING ROOM / EOC	2,266 SF
A215	UNIFIED COMMAND	234 SF
A216	EM OFFICE	266 SF
A217	EM STORAGE	127 SF
A218	MEN	118 SF
A219	WOMEN	144 SF
B156	EM BAY	711 SF
B158	WASH BAY	958 SF
B163	SHERIFF'S DEPARTMENT VEHICLES	2,439 SF
B164	RAPID DEPLOYMENT	1,688 SF
B166	FIRE EQUIPMENT BAY	1,656 SF
B251	FITNESS AREA	1,442 SF
B252	RESTROOM	91 SF
B253	RESTROOM	91 SF
B254	STORAGE	102 SF
B255	STORAGE	85 SF

Keynote	Description
P1	PRECAST CONCRETE SUPPLIER SHALL INSTALL REQUIRED OUTLET BOX FLUSH IN WALL WITH 3/4" CONDUIT STUBBED UP ABOVE ACCESSIBLE CEILING SPACE OR NEAR ROOF STRUCTURE IN DEPLOYMENT BAYS OR OTHER EXPOSED CEILING SPACES IN ROOMS. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH PRECAST SUPPLIER AND OTHER DIVISIONS FOR EXACT REQUIREMENTS AND LOCATIONS.
P2	PROVIDE WIREMOLD #EFS82, OR EQUIVALENT TWO COMPARTMENT RECESSES WALL BOX. MATCH LOCATIONS WITH NOTE S8.
P5	PROVIDE AND INSTALL NEMA 14-50R RECEPTACLE FOR RANGE. E.C. TO PROVIDE RANGE CORD AND PLUG AS REQUIRED.
P6	CONNECT TO RANGE HOOD AND HOOD LIGHTS. 72" AFF TYPICAL.
P9	LOCATE ABOVE THE VESTIBULE CEILING ON THE FLOOR BELOW (ELEV 113').
P11	MOUNT RECEPTACLE IN ADJACENT BASE CABINET. FIELD COORDINATE WITH G.C. AND CABINET SUPPLIER TO CUT GROMMET HOLE IN CABINET FOR WIRING. E.C. TO PROVIDE 6FT APPLIANCE CORD FOR DISHWASHER.
P13	RECEPTACLE LOCATED ON ROOF. CONNECT TO NEAREST INTERIOR CONVENIENCE RECEPTACLE CIRCUIT FOR POWER.
P14	LOAD SIDE GFCC
P16	PROVIDE NEMA 5-20R RECEPTACLE FOR PROJECTOR POWER. PROVIDE CHIEF #CMS445 PROJECTOR MOUNTING PLATE AND PROPERLY SUPPORT FROM STRUCTURAL MEMBERS ABOVE PER MANUFACTURER INSTRUCTIONS. RECEPTACLE SHALL MOUNT TO THE FACE OF PLATE ALONG WITH THE "XO" AV DEVICE. COORDINATE EXACT LOCATION AND HEIGHT WITH PROJECTOR SYSTEMS KEYNOTE.
P17	PROVIDE ELECTRICAL CONNECTION TO ELECTRIC HAND DRYER. COORDINATE DEVICE HEIGHT WITH G.C.
P18	PROVIDE A NEMA 5-20 RECEPTACLE FOR THE MICROWAVE. E.C. TO COORDINATE HEIGHT WITH CASEWORK. 24" AFF TYPICAL.
P20	SEE DETAIL 1/E404 OR 2/E404 FOR MTR FLOOR BOX.
P21	PROVIDE POP-UP STYLE RECEPTACLE HUBBELL #RCT201W OR EQUIVALENT. CIRCUIT THROUGH CABINETRY AS REQUIRED.
P24	PROVIDE WIREMOLD #EFS84, OR EQUIVALENT FOUR COMPARTMENT RECESSES WALL BOX. MATCH LOCATIONS WITH NOTE S29. ONE COMPARTMENT DUPLEX REPT, ONE COMPARTMENT TWO DATA AND CATV, ONE COMPARTMENT "XO", AND ONE COMPARTMENT WITH LEGRAND #WP104WHV1 FOR FUTURE WITH 1" CONDUIT STUBBED TO ACCESSIBLE CEILING SPACE.
P25	PROVIDE 4-WIRE CONTROL CONNECTION TO PROJECTOR SCREEN. COORDINATE EXACT LOCATION WITH GC AND AV CONTRACTOR.
P26	SEE DETAIL 4/E304 FOR POKE THROUGH FLOOR BOX GENERAL NOTES. REFER TO SPECIFICATION SECTION 260540. TYPICAL FOR ALL FLOOR BOXES.

1
E302
Power Plan - Level 2
1/8" = 1'-0"

E
D
C
B
A

7 6 5 4 3 2 1

7 6 5 4 3 2 1

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Panel: L1

Volts: 120/208 Wye Phase: 3 Wire: 4
Mains Rating: 400 A Mains Type: MLO Mounting: Surface
EATON POW-R-LINE SERIES

DESCRIPTION	CKT BRK	CKT #	GFCI	A	B	C	GFCI	CKT #	CKT BRK	DESCRIPTION	
NORTH BSMT RECPT	20	1		900	1200			2	1	BOILER PUMP	
NORTH BSMT RECPT	20	1		900	600			3	X	BOILER 2	
NORTH BSMT RECPT	20	1				720	1200	6	1	BOILER PUMP	
SOUTH BSMT RECPT	20	1		720	600			8	1	BOILER 1	
SOUTH BSMT RECPT	20	1			900	1333		10	3	PUMP 1	
RANGE RECPT	20	1		720	1333		1080	1333	12	--	--
RANGE LANE	20	1			180	0		16	3	PUMP 2	
RANGE LANE	20	1		180	0			18	--	--	
RANGE LANE	20	1		180	0			20	--	--	
RANGE LANE	20	1			180	6667		22	3	100 AH-1	
RANGE SERVICE...	20	1				180	6667	24	--	--	
WATER HEATER	30	3		2000	6667			26	--	--	
WATER HEATER	--	--		2000	1275			28	1	STORAGE/MECH...	
WATER HEATER	--	--				2000	1205	30	1	20 HALL LIGHTS	
WATER HEATER	30	3		2000	660			32	1	20 SEWAGE EJECTOR	
WATER HEATER	--	--				2000	0	34	1	20 HAND DRYER	
WATER HEATER	--	--				2000	180	X	36	1	20 SUMP PUMP
DOMESTIC PUMP	20	3		1533	400			38	2	20 PARKING LOT LIGHT	
DOMESTIC PUMP	--	--			1533	400		40	--	--	
DOMESTIC PUMP	--	--				1533	400	42	2	20 PARKING LOT LIGHT	
TRUCK FILL PUMP	70	3		6667	400			44	--	--	
TRUCK FILL PUMP	--	--			6667	400		46	2	20 PARKING LOT LIGHT	
TRUCK FILL PUMP	--	--				6667	400	48	--	--	
PUMP 1 ALT	35	3		2100	600			50	1	20 BOILER 3	
PUMP 1 ALT	--	--			2100	1200		52	1	20 BOILER PUMP	
PUMP 2 ALT	35	3		2100	1200			54	1	20 ARMORY LIGHTS	
PUMP 2 ALT	--	--				2100	360	56	1	20 RANGE LIGHTS	
PUMP 2 ALT	--	--				2100	0	58	2	40 ELEVATOR PANEL	
RANGE LIGHTS	20	1		1085	0			62	1	20 SPARE	
SPARE	20	1		0	0			64	1	20 SPARE	
SPARE	20	1		0	0			66	1	20 SPARE	
SPARE	20	1		0	0			68	1	20 SPARE	
SPARE	20	1		0	0			70	1	20 SPARE	
SPARE	20	1		0	0			72	1	20 SPARE	
SPARE	20	1		0	0			74	1	20 SPARE	
SPARE	20	1		0	0			76	1	20 SPARE	
SPARE	20	1		0	0			78	1	20 SPARE	
SPARE	20	1		0	0			80	1	20 SPARE	
SPARE	20	1		0	0			82	1	20 SPARE	
SPARE	20	1		0	0			84	1	20 SPARE	

Amps per Phase: 276 A 257 A 254 A

LOAD	CONNECTED	DEMAND	ADJUSTED
LIGHTING	5.3 kVA	125.00%	6.6 kVA
RECEPTACLES	7.2 kVA	100.00%	7.2 kVA
HVAC	79.4 kVA	100.00%	79.4 kVA
KITCHEN			
OTHER	2.4 kVA	100.00%	2.4 kVA
Total kVA:	95.6 kVA		95.6 kVA
Total Amps:	285.4 A		285.4 A

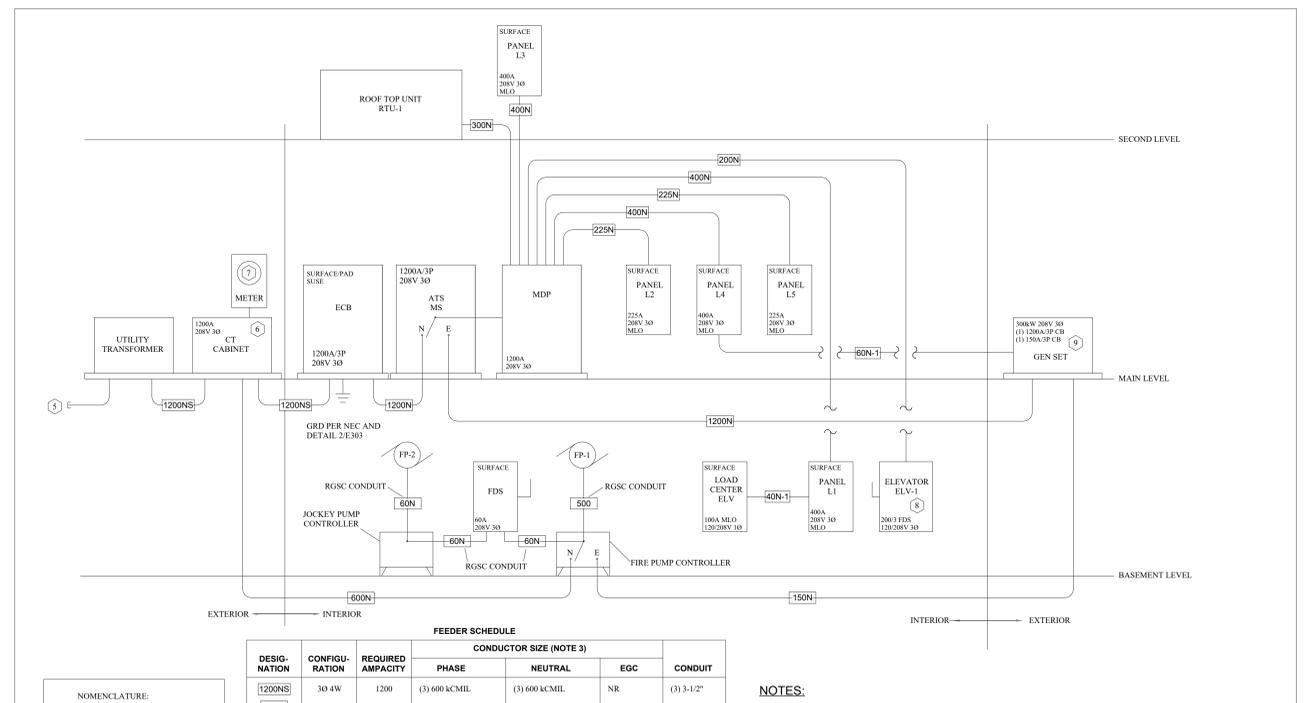
Panel: L2

Volts: 120/208 Wye Phase: 3 Wire: 4
Mains Rating: 225 A Mains Type: MLO Mounting: Surface
EATON POW-R-LINE SERIES

DESCRIPTION	CKT BRK	CKT #	GFCI	A	B	C	GFCI	CKT #	CKT BRK	DESCRIPTION	
OVEN	50	2		90	180			2	1	20 BR RECPT	
OVEN	--	--				90	180	4	1	20 BR RECPT	
DISHWASHER	20	1		180	180			6	1	20 BR RECPT	
BR MICROWAVE	20	1		180	180			8	1	20 BR RECPT	
BR MICROWAVE	20	1			180	180		10	1	20 BR RECPT	
BR FRIDGE	20	1				180	180	12	1	20 BR RECPT	
OFFICE RECPT	20	1		720	180			14	1	20 BR RECPT	
OFFICE RECPT	20	1			900	180		16	1	20 BR RECPT	
OFFICE RECPT	20	1				1080	180	18	1	20 BR RECPT	
OFFICE RECPT	20	1		900	180			20	1	20 BR RECPT	
OFFICE RECPT	20	1			900	180		22	1	20 BR RECPT	
OFFICE RECPT	20	1		900	1080			24	1	20 BR RECPT	
OFFICE RECPT	20	1			900	900		26	1	20 OFFICE RECPT	
OFFICE RECPT	20	1				720	900	30	1	20 OFFICE RECPT	
OFFICE RECPT	20	1		720	1080			32	1	20 ADMIN RECPT	
OFFICE RECPT	20	1			720	1260		34	1	20 ADMIN RECPT	
OFFICE RECPT	20	1		1080	360			36	1	20 ADMIN RECPT	
OFFICE RECPT	20	1			1080	360		38	1	20 COUNTER RECPT	
OFFICE RECPT	20	1			1080	360		40	1	20 COUNTER RECPT	
OFFICE RECPT	20	1				900	360	42	1	20 COUNTER RECPT	
RECEPTION RECPT	20	1		720	1260			44	1	20 BREAKRM OFFICE...	
RECEPTION RECPT	20	1			1080	1437		46	1	20 RR LIGHTS	
RECEPTION RECPT	20	1				900	1761	48	1	20 HALL LIGHTS	
OFFICE LIGHTS	20	1		994	0			X	50	20	HAND DRYER
DEPUTY FLOORBOX	20	1			960	0		X	52	1	20 HAND DRYER
DEPUTY FLOORBOX	20	1				360	180	X	54	1	20 FAN COIL UNIT
ACCENT LIGHTS	20	1		800	180			X	56	1	20 MICROWAVE
SPARE	20	1		0	180			58	1	20 L1 SERVICE RECPT	
SPARE	20	1		0	180			60	1	20 L3 SERVICE RECPT	

Amps per Phase: 99 A 93 A 90 A

LOAD	CONNECTED	DEMAND	ADJUSTED
LIGHTING	6.2 kVA	125.00%	7.8 kVA
RECEPTACLES	25.9 kVA	69.29%	18.0 kVA
HVAC	0.4 kVA	100.00%	0.4 kVA
KITCHEN			
OTHER	1.1 kVA	100.00%	1.1 kVA
Total kVA:	33.6 kVA		27.2 kVA
Total Amps:	75.5 A		75.5 A



Panel: L3

Volts: 120/208 Wye Phase: 3 Wire: 4
Mains Rating: 400 A Mains Type: MLO Mounting: Surface
EATON POW-R-LINE SERIES

DESCRIPTION	CKT BRK	CKT #	GFCI	A	B	C	GFCI	CKT #	CKT BRK	DESCRIPTION	
OVEN	50	2		90	1260			2	1	20 TRAINING RECPT	
FRIDGE, DISH, AND...	20	1		90	1080			4	1	20 TRAINING RECPT	
TR MICROWAVE	20	1		180	1800			8	1	20 EM RECPT	
TR MICROWAVE	20	1			180	1800		10	1	20 EM RECPT	
TR RECPT	20	1		180	540			12	1	20 EM RECPT	
TR RECPT	20	1			180	540		14	1	20 WORK ROOM RECPT	
TR RECPT	20	1				180	540	16	1	20 WORK ROOM RECPT	
MICROWAVE	20	1				180	540	18	1	20 WORK ROOM RECPT	
MED FRIDGE	20	1		180	1080			20	1	20 OFFICE RECPT	
MED FRIDGE	20	1			180	900		22	1	20 OFFICE RECPT	
EXHAUST FAN	35	3		2500	720			24	1	20 OFFICE RECPT	
EXHAUST FAN	--	--			2500	900		26	1	20 HEALTH RECPT	
EXHAUST FAN	--	--				9727	900	30	1	20 HEALTH RECPT	
EXHAUST FAN	--	--			9727	1570		32	1	20 TRAINING LIGHTS	
EXHAUST FAN	--	--				9727	920	34	1	20 EM OFFICE LIGHTS	
HEALTH LIGHTS	20	1				1315	1553	36	1	20 HALL LIGHTS	
HAND DRYER	20	1		0	180			38	1	20 IT RECPT	
HAND DRYER	20	1			0	180		40	1	20 IT RECPT	
ENTRY LIGHTS	20	1				1255	180	42	1	20 IT RECPT	
SERVER ROOM...	20	2		800	1440			44	1	20 TRAINING FB	
SERVER ROOM...	--	--			800	1440		46	1	20 TRAINING FB	
RADIO RACK	20	1		180	1080			48	1	20 TRAINING FB	
SPARE	20	1		0	180			X	50	20	POPIUP RECPT
SPARE	20	1		0	180			X	52	1	20 POPIUP RECPT
SPARE	20	1		0	180			X	54	1	20 POPIUP RECPT
SPARE	20	1		0	1200			56	1	20 PROJECTOR	
SPARE	20	1		0	1200			58	1	20 PROJECTOR	
L2 SERVICE RECPT	20	1		180	360			60	1	20 SCREENS	

Amps per Phase: 198 A 190 A 203 A

LOAD	CONNECTED	DEMAND	ADJUSTED
LIGHTING	6.6 kVA	125.00%	8.2 kVA
RECEPTACLES	15.7 kVA	73.28%	11.7 kVA
HVAC	38.3 kVA	100.00%	38.3 kVA
KITCHEN			
OTHER	4.4 kVA	100.00%	4.4 kVA
Total kVA:	66.6 kVA		66.6 kVA
Total Amps:	184.9 A		184.9 A

