

#### ADDENDUM

#### **ADDENDUM NO.:** #02 **DATE:** 02/08/2024

**PROJECT:** Woodhouse Ford Pro: Building Improvements **PROJECT #:** 23043

**TO:** Prospective Bidders

This Addendum is issued by the Architect to all bidders of record prior to receipt of proposals. Bidders shall acknowledge receipt of this addendum by so indicating on the Proposal Form. Failure to do so may subject Bidder to disqualification. All information and instructions given herein shall become a part of the Contract Documents.

### DRAWINGS (ALL REVISED DRAWINGS ATTACHED)

### 1. A1.1A - FIRST FLOOR PLAN - AREA A & B

- a. 2 FIRST FLOOR PLAN AREA B
  - i. Added tire changing station with 8" cmu walls
  - ii. Revised other tire changing station
  - iii. Revised large pit dimensions and added pit depth elevation
  - iv. Added missing pit elevations on small pit and added depth elevation.

### 2. A7.1 - DOOR AND WINDOW FRAME TYPES/DETAILS

- a. DOOR SCHEDULE
  - i. Revised door #15 (added in addendum 1) to aluminum door and frame.
- b. Specs:

ii

i.

- i. 084213 Aluminum Framed Entrances:
  - 1. Added hardware set #9.
  - Hardware Schedule
    - 1. Revised set #9.

### 3. A9.1 - FINISH FLOOR SCHEDULE & FIRST FLOOR FINISH PLAN - AREA A

- a. Revised Alternate Notes as clouded.
- b. 2 FIRST FLOOR FINISH PLAN AREA B
  - i. Added additional notes to paint existing doors.
    - ii. Paint CMU half-walls as clouded.

### 4. A9.2 - FINISH FLOOR SCHEDULE & FIRST FLOOR FINISH PLAN - AREA C

- a. INTERIOR FINISHES SCHEDULE
  - CPT-2 , Carpet Tile Rug, comments:
    - 1. Added Shaw quote and note non-skid backing
- b. 1-FIRST FLOOR FINISH PLAN AREA C
  - i. Added notes to paint existing doors (near matchline).



### 5. S2.2 – STRUCTURAL PLANS AREA B

- a. FOUNDATION AREA B
  - i. Update CMU wall length and add additional CMU wall. See attached revised drawing.
  - ii. Update pit dimension and add note. See attached revised drawing.

SEE ATTACHED MORRISSEY ENGINEERING ADDENDUM NARRATIVE AND DRAWINGS.

### END OF ADDENDUM



mechanical | electrical | lighting | technology | commissioning

### addendum

addendum no.	02
date:	2/8/2024
bid date:	n/a
project name:	Woodhouse Ford Pro
project no:	23416

This addendum is hereby made a part of the contract documents to the same extent as if it were originally included therein. Contract documents shall be considered modified or revised as hereinafter described.

### mechanical items

- 1. Sheet M1.1 FLOOR PLAN HVAC AREA A
  - a. Revised notes for thermostats and vav dampers.
  - b. Add VFD for RTU-1(E) fan.
  - c. Removed bypass damper.
- 2. Sheet M1.2 FLOOR PLAN HVAC AREA B
  - a. Revised notes for thermostats.
- Sheet M1.3 FLOOR PLAN HVAC AREA C a. Revised notes for thermostats.
- 4. Sheet M1.4 ROOF PLAN MECHANICAL AREA A
  - a. Add notes to RTU to provide new controller and VFD for supply fan.
- 5. Sheet M2.2 UNDERGROUND PLAN PLUMBING AREA B
  - a. Add floor drain.
  - b. Extend floor cleanout location.
  - c. Add additional floor cleanout.
- 6. Sheet M2.7 FLOOR PLAN PLUMBING WASTE AND VENT RISER
  - a. Revise oil waste connections.
- 7. Sheet M4.1 MECHANICAL SCHEDULES
  - a. Remove zone damper schedule.
  - b. Add VFD-RTU-1
- 8. Mechanical Specifications:
  - a. Section 235523 Gas-Fired Radiant Heaters
    - i. Add Advanced Radiant Systems as an allowable manufacturer.
  - b. Section 230960 Variable Frequence Drives
    - i. Add Schneider to allowed manufacturers.

### electrical items

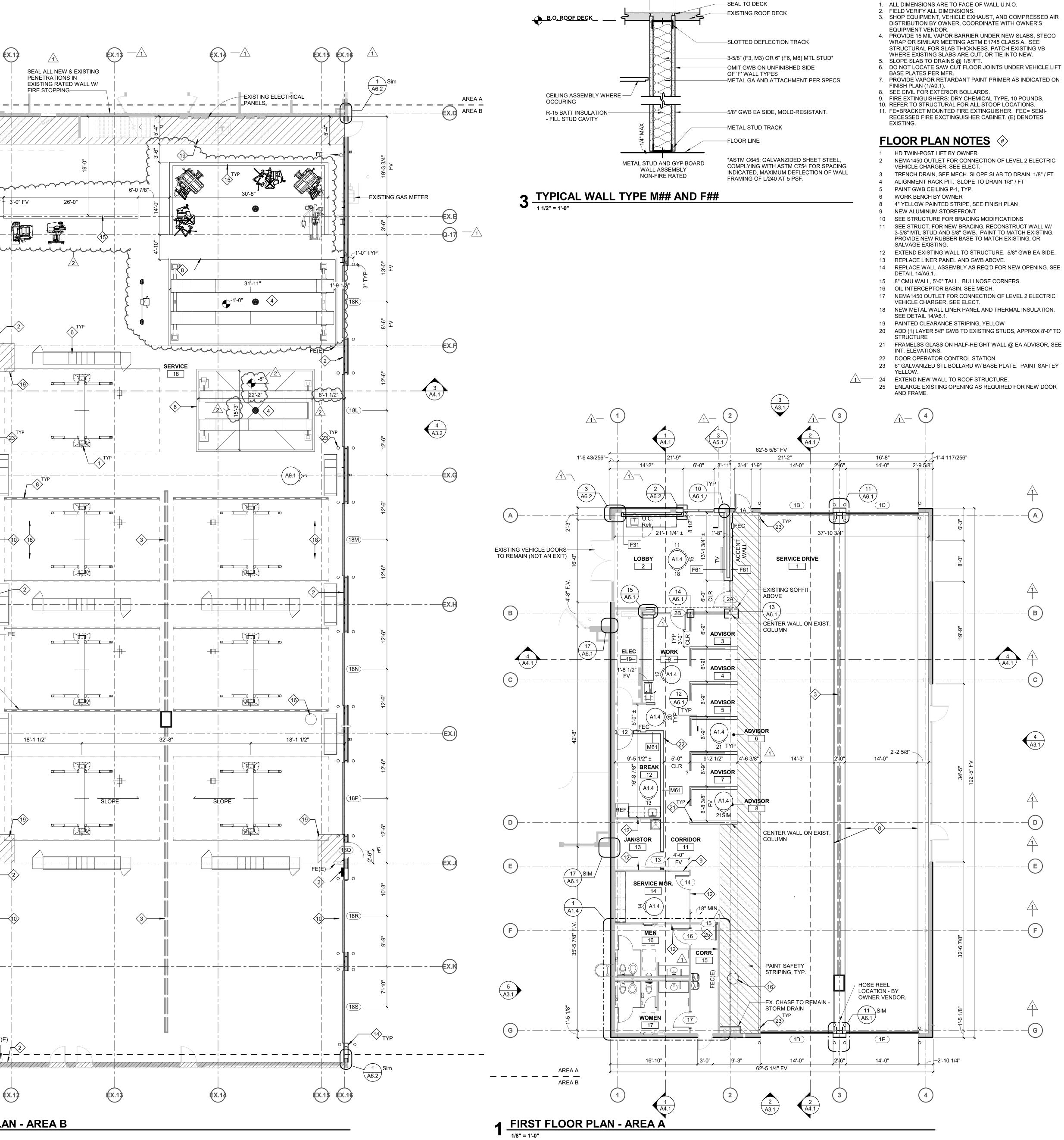
- 1. Sheet ED1.3 FLOOR PLAN DEMOLITION AREA C
  - a. Revise demo equipment.
- Sheet E1.1 FLOOR PLAN LIGHTING AREA A a. Add keynote.
- 3. Sheet E1.2 FLOOR PLAN LIGHTING AREA B
  - a. Add HVLS fans and switches.
  - b. Revise keynotes.

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- 4. Sheet E1.3 FLOOR PLAN LIGHTING AREA C
  - a. Add lighting to electrical and compressor rooms.
  - b. Revise fire alarm connections.
  - c. Add keynote.
- 5. Sheet E2.1 FLOOR PLAN POWER AREA A a. Add connection to VFD.
- 6. Sheet E2.2 FLOOR PLAN POWER AREA B
  - a. Revise power connections at tire changing area.
  - b. Add 220V receptacles.
- 7. Sheet E4.0 ELECTRICAL SCHEDULES AND DIAGRAMS a. Update mechanical connection schedule.
- 8. Sheet E4.1 ELECTRICAL PANEL SCHEDULES
  - a. Revise panel schedules.

end of addendum

0 INCH		
3 0 3 SCALE 3" = 1'-0"	EX.D AREA A A	
0 12 1-0" INCH		
3 12	Q-17	
1 0 1 2 SCALE 3/4" = 1'-0" FEET		
1 0 1 2 3 4 5	1 A32	
2 0 2 4 6 8 10	PAINTED SAFET STRIPING, TYP	
0 5 10 15 20	EX.)	
5 10 15 20 25 30 35 40 45 5	EX.)	
10 15 20 25 30 5 0 = 1-0" FEET SCALE	$-\frac{AREA}{AREA}B_{-}$	
5 0 5 SCALE 3/32" 2/7/2024 2:38:51 PM	2 <u>FIF</u> 1/8"	RST FLOOR PLAN = 1'-0"



REF WALL SCHEDULE

## FLOOR PLAN GENERAL NOTES



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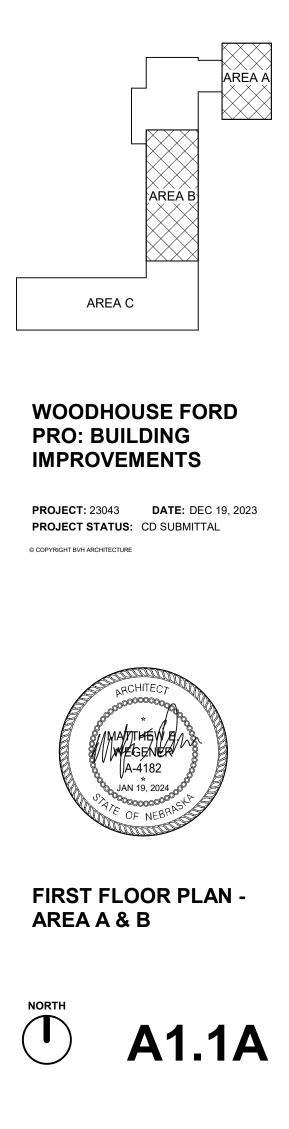
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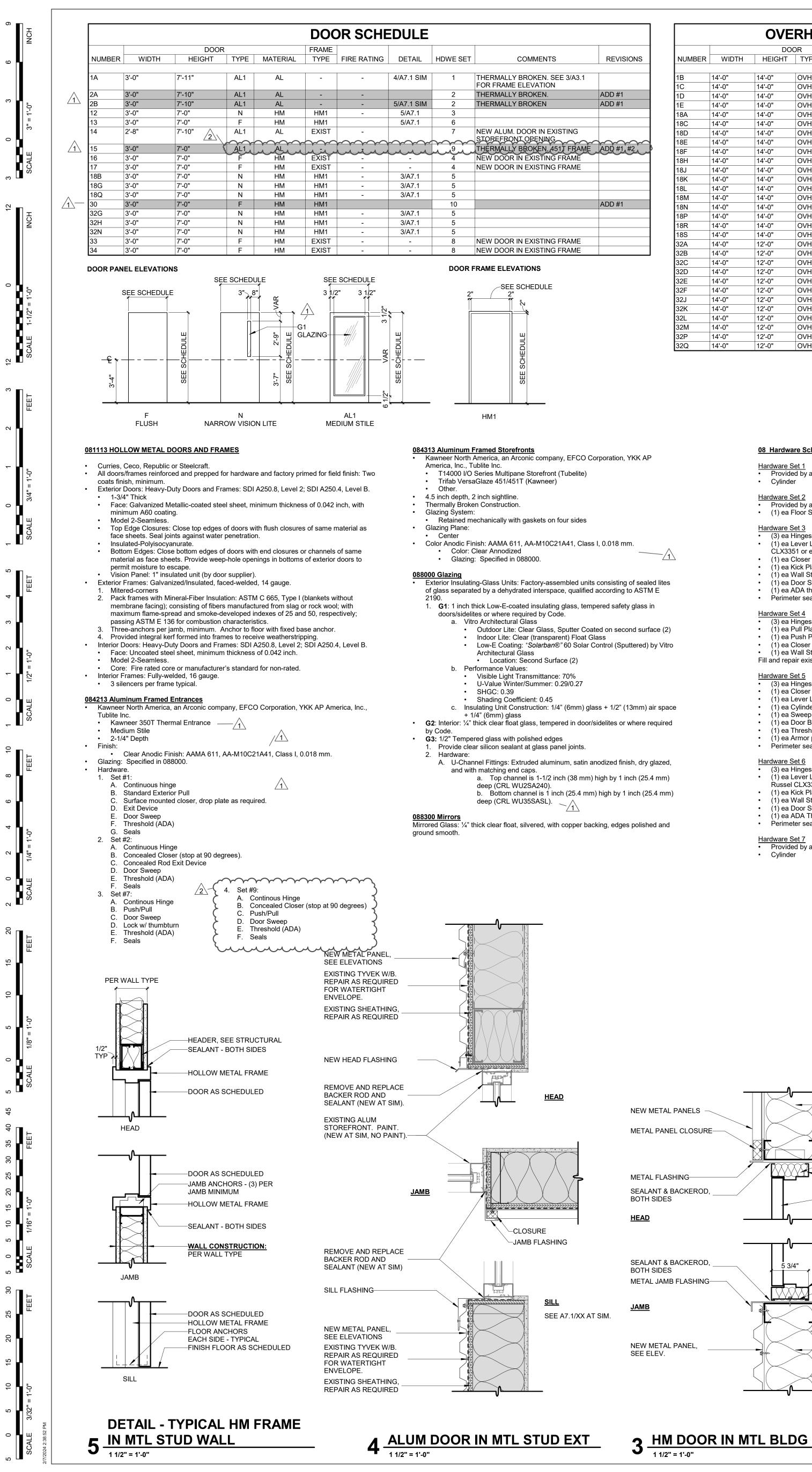
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MEP ENGINEER MORRISSEY ENGINEERING 4940 N 118TH ST OMAHA, NE 68164 V 402 491 4144 morrisseyengineering.com

<b>REVISIONS SCHEDULE</b>								
MARK DATE DESCRIPTION								
	•							
1	02/01/2024	ADDENDUM 1						
2	02/07/2024	ADDENDUM 2						







		OVE	RHE	AD DOC	OR SCHEDL	JLE		
	DOOR							
NUMBER	WIDTH	HEIGHT	TYPE	MATERIAL	DETAIL	COMMENTS	REVISIONS	
1B	14'-0"	14'-0"	OVHD1	AL	11/A6.1 & 10/A7.1			
1C	14'-0"	14'-0"	OVHD1	AL	11/A6.1 & 10/A7.1			
1D	14'-0"	14'-0"	OVHD1	AL	11/A6.1 & 10/A7.1			
1E	14'-0"	14'-0"	OVHD1	AL	11/A6.1 & 10/A7.1			
18A	14'-0"	14'-0"	OVHD2	AL	2/A7.1			
18C	14'-0"	14'-0"	OVHD2	AL	2/A7.1			
18D	14'-0"	14'-0"	OVHD2	AL	2/A7.1			
18E	14'-0"	14'-0"	OVHD2	AL	2/A7.1			
18F	14'-0"	14'-0"	OVHD2	AL	2/A7.1			
18H	14'-0"	14'-0"	OVHD2	AL	2/A7.1			
18J	14'-0"	14'-0"	OVHD2	AL	2/A7.1			
18K	14'-0"	14'-0"	OVHD2	AL	2/A7.1			
18L	14'-0"	14'-0"	OVHD2	AL	2/A7.1			
18M	14'-0"	14'-0"	OVHD2	AL	2/A7.1			
18N	14'-0"	14'-0"	OVHD2	AL	2/A7.1			
18P	14'-0"	14'-0"	OVHD2	AL	2/A7.1			
18R	14'-0"	14'-0"	OVHD2	AL	2/A7.1			
18S	14'-0"	14'-0"	OVHD2	AL	2/A7.1			
32A	14'-0"	12'-0"	OVHD2	AL	2/A7.1			
32B	14'-0"	12'-0"	OVHD2	AL	2/A7.1			
32C	14'-0"	12'-0"	OVHD2	AL	2/A7.1			
32D	14'-0"	12'-0"	OVHD2	AL	2/A7.1			
32E	14'-0"	12'-0"	OVHD2	AL	2/A7.1			
32F	14'-0"	12'-0"	OVHD2	AL	2/A7.1			
32J	14'-0"	12'-0"	OVHD2	AL	2/A7.1			
32K	14'-0"	12'-0"	OVHD2	AL	2/A7.1			
32L	14'-0"	12'-0"	OVHD2	AL	2/A7.1			
32M	14'-0"	12'-0"	OVHD2	AL	2/A7.1			
32P	14'-0"	12'-0"	OVHD2	AL	2/A7.1			
32Q	14'-0"	12'-0"	OVHD2	AL	2/A7.1			
			C THE	/ \L	-//			

Hardware Set 8

• (1) ea Closer

• (1) ea Wall Stop

Perimeter seals

Hardware Set 10

• (1) ea Closer

(3) ea Hinges.

• (1) ea Kick Plate, 10"

• (1) ea Wall Stop.

<u>087100 Hardware</u>

(3) ea Hinges

CLX3320 or equivalent.

Fill and repair existing frame as required.

Hardware Set 9

• Wall stop.

Commercial quality, heavy-duty.

• Finish: (US32D finish.)

CLX3357 or equivalent.

Provided by aluminum door supplier 🚽

• (1) ea Lever Lockset, privacy function. Corbin Russel

• (1) ea Lever Lockset, storeroom function. Corbin Russel

All hardware shall be accessible according to ICC

• ANSI/BHMA A156.1-2013: Butts and Hinges

ANSI/BHMA A156.13-2012: Mortise Locks &

• ANSI/BHMA A156.16-2013: Auxiliary Hardware

ANSI/BHMA A156.18-2012: Materials and Finishes

ANSI/BHMA A156.22-2012: Door Gasketing and

• Hardware shall meet the following standards:

ANSI/BHMA A156.2-2011: Bored and

Latches Series 1000

Edge Seal Systems

• Keying: As directed by Owner.

NEW GUTTERS-

B.O. EAVE STRUT\_

NEW METAL PANEL

METAL PANEL CLOSURE-

METAL HEAD FLASHING-

WEATHER STRIPPING-

METAL JAMB FLASHING-

<u>HEAD</u>

<u>JAMB</u>

NEW METAL

PANEL AS REQ'D-

1 1/2" = 1'-0"

6"

**9** OVHD DOOR DTL IN MTL BLDG

Preassembled Locks and Latches

ANSI/BHMA A156.3-2008: Exit Devices

• ANSI/BHMA A156.21-2009: Thresholds

NOTE: EXISTING ROOF INSULATION.

• ANSI/BHMA A156.28-2013: Recommended

Practices for Mechanical Keying Systems

BID ALTERNATE 2: INSTALL NEW ROOF INSTALLATION.-

A117.1-2009 and 2010 ADA Standards for Accessible

08 Hardware Schedule

Provided by aluminum door supplier

Provided by aluminum door supplier

• (1) ea Lever Lockset, passage function. Corbin Russel

Hardware Set 1

Hardware Set 2

Hardware Set 3

• (3) ea Hinges.

• (1) ea Closer

• (1) ea Kick Plate, 8"

• (1) ea Wall Stop

Perimeter seals

Hardware Set 4

• (3) ea Hinges

• (1) ea Closer

<u>Hardware Set 5</u>

• (3) ea Hinges

• (1) ea Cylinder

(1) ea Sweep

• (1) ea Lever Lockset

• (1) ea Door Bottom

• (1) ea Armor plate, 34" high

Russel CLX3357 or equivalent.

Provided by aluminum door supplier

• (1) ea Lever Lockset, storeroom function. Corbin

-INSTALL NEW "SIMPLE SAVER" OR

**"ENERGY SAVER FP" INSULATION** 

-MINERAL WOOL INSULATION, TYP.

OR EQUAL.

-PEMB C-CHANNEL

HEADER, SEE STRUCT.

-HOLLOW METAL FRAME

-DOOR AS SCHEDULED

-HOLLOW METAL FRAME

-JAMB ANCHORS (3 PER JAMB)

-PEMB C-CHANNEL, SEE STRUCT

-NEW INTERIOR METAL PANELS

OR EQUAL.

-- INSTALL NEW "SIMPLE SAVER" OR

"ENERGY SAVER FP" INSULATION

LINER SYSTEM W/ VAPOR BARRIER

LINER SYSTEM W/ VAPOR BARRIER

• (1) ea Threshold

Perimeter seals.

Hardware Set 6

• (3) ea Hinges.

• (1) ea Kick Plate, 10"

• (1) ea ADA Threshold

• (1) ea Wall Stop.

Perimeter seals.

5 3/4"

Hardware Set 7

Cylinder

• (1) ea Door Sweep

• (1) ea Closer

• (1) ea Pull Plate

• (1) ea Push Plate

• (1) ea Wall Stop

Fill and repair existing frame as required.

• (1) ea Door Sweep

• (1) ea ADA threshold

CLX3351 or equivalent.

(1) ea Floor Stop

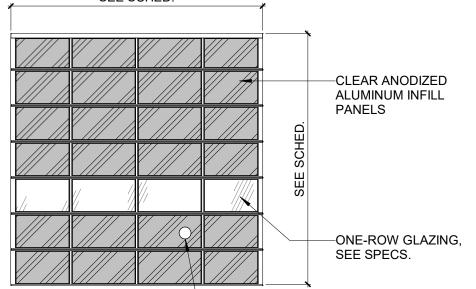
Cylinder

SEE SCHED.									
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	////								
<u> VHD 1</u>									

**OVERHEAD DOOR ELEVATIONS** 

<u>/1</u>

Corporation, YKK AP

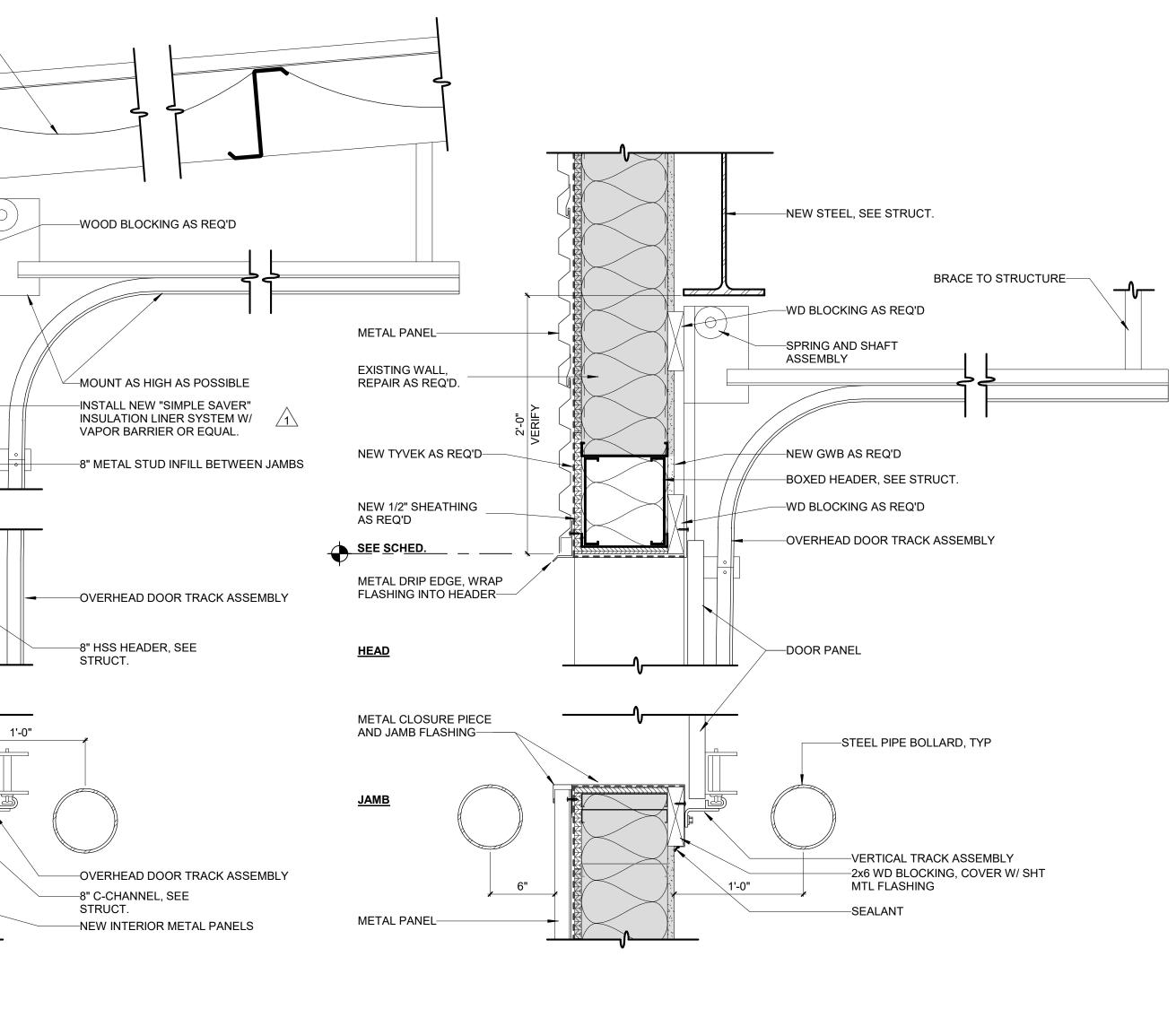


### <u>OVHD 2</u> OM ROW SOLID INFILL PANELS, CLEAR ANODIZED

—GLAZING, SEE SPECS

- Other acceptable manufacturers: CHI Overhead Doors, Clopay Corporation, Ceco/Windsor, Raynor, Wayne-Dalton. . Aluminum Doors: Stile and rail aluminum with solid and glazed panels; lift clearance operating style with track and hardware; complying with DASMA 102, Commercial application. • Coordinate Lift Clearance track configuration for highest possible lift allowed by structure and other equipment. Door Nominal Thickness: 2 inches thick.
- Door Stiles and Rails: Extruded aluminum stiles and rails; infill panels of glass and aluminum; stile and rail joints welded; rabbeted weather joints at meeting rails. Finish: Anodized Finish: Clear anodized.
- Glazed Lights Infill Panels: Full panel width, as indicated on the Drawings; set in place with resilient glazing channel. Glass Type: 1/2 inch, Double Strength Insulated Glass. Aluminum Infill Panels: Solid sheet aluminum infill panels in lieu of glazing where indicated on the drawings. Finish to match stiles and rails.
- Provide exhaust port holes where indicated. Operation: Electric.
- Components: • Track: Rolled galvanized steel, 0.120 inch minimum thickness; 3 inch wide, continuous one piece per side; galvanized steel mounting brackets 1/4 inch thick.
- Hinge and Roller Assemblies: Heavy duty hinges and adjustable roller holders of galvanized steel; floating hardened steel bearing rollers, located at top and bottom of each panel, each side. • Lift Mechanism: Spring counterbalance, heavy duty, oil-tempered wire torsion springs on a continuous ball bearing cross head shaft, with galvanized aircraft type steel lifting cables with a minimum safety factor of 5:1. Provide high cycle
- (100,000 cycle) springs at all doors. • Sill Weatherstripping: Resilient hollow rubber strip, one piece; fitted to bottom of door panel, full length contact. • Jamb Weatherstripping: Roll formed aluminum section full height of jamb, fitted with resilient weatherstripping, placed in moderate contact with door panels.
- Head Weatherstripping: EPDM rubber seal, one piece full length. • Panel Joint Weatherstripping: Neoprene foam seal, one piece full length.
- Lock: Omit Lock. 4. Electrical Operation
- Operation of the Sectional Doors is to be as follows: • Provide toggle switch at each door location with a 'Falcon' sensor to cut power to the controls when service is closed. • Provide one bank of controls that will operate all four doors - north and south sides of Service Drive 1 - for convenience purposes, as shown on the Drawings.
- Remote controls are acceptable only at the Service Drive 1 area. Each remote shall be 4-button to control all doors at the Service Drive. • Operator, Controls, Actuators, and Safeties: Comply with UL 325; provide products listed by a testing agency acceptable to authorities having jurisdiction. Electrical Characteristics:
- 1/2 hp, 120v, single phase; manually operable in case of power failure, transit speed of 12 inches per second. Wiring Terminations: Provide terminal lugs to match branch circuit conductor quantities, sizes, and materials indicated. Enclose terminal lugs in terminal box sized to NFPA 70.
- Disconnect Switch: Factory mount disconnect switch in control panel. • Electric Operator: Side mounted on cross head shaft, adjustable safety friction clutch; brake system actuated by independent voltage solenoid controlled by motor starter; enclosed gear driven limit switch; enclosed magnetic cross line reversing starter; mounting brackets and hardware.
- Include manufacturers standard adjustable timer. • Safety Edge: At bottom of door panel, full width; electro-mechanical sensitized type, wired to stop door upon striking object; hollow neoprene covered to provide weatherstrip seal.
- Photocells: FOS-1, NEMA 4, Exterior Through-Beam Photocell. Provide at all doors.
- Motion Detector: Falcon Motion Detector. Wall mounted per manufactures recommendation
- Provide at openings 1B, and 1C. • Provide Toggle-switch to disconnect Motion Detectors; Coordinate with Electrical:
- Toggle-switch Location 1: Disconnects doors 1B and 1C at the Service Drive. • Control Station: Standard three button (open-close-stop) momentary type control for each electric operator.
- 24 volt circuit. Surface mounted.
- Locate where indicated on the Drawings. Hand Held Transmitter: Manufacturers Standard Digital control, resettable.

Provide (1) set for each service advisor for doors 1B, 1C, 1D, and 1E.



OVHD DOOR DTL 1 1/2" = 1'-0"



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<b>REVISIONS SCHEDULE</b>								
MARK DATE DESCRIPTIO								
1	02/01/2024	ADDENDUM 1						
2	02/07/2024	ADDENDUM 2						

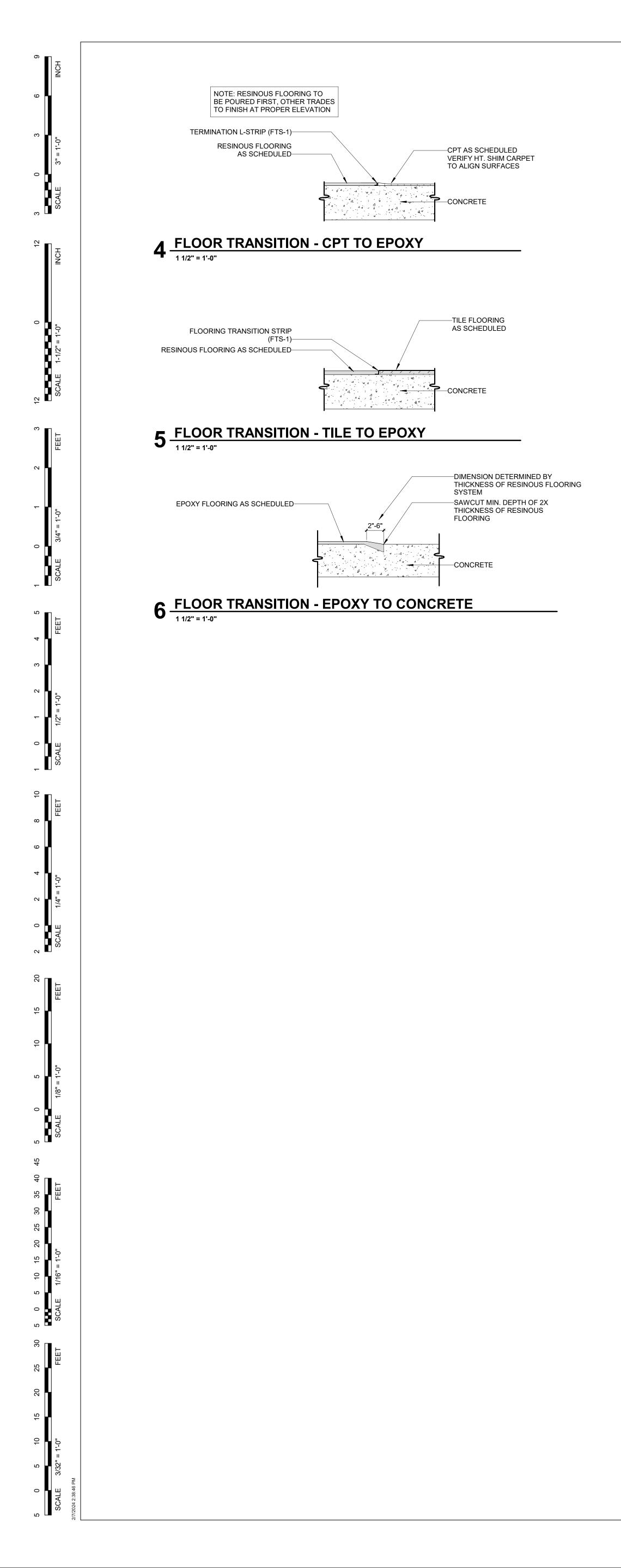


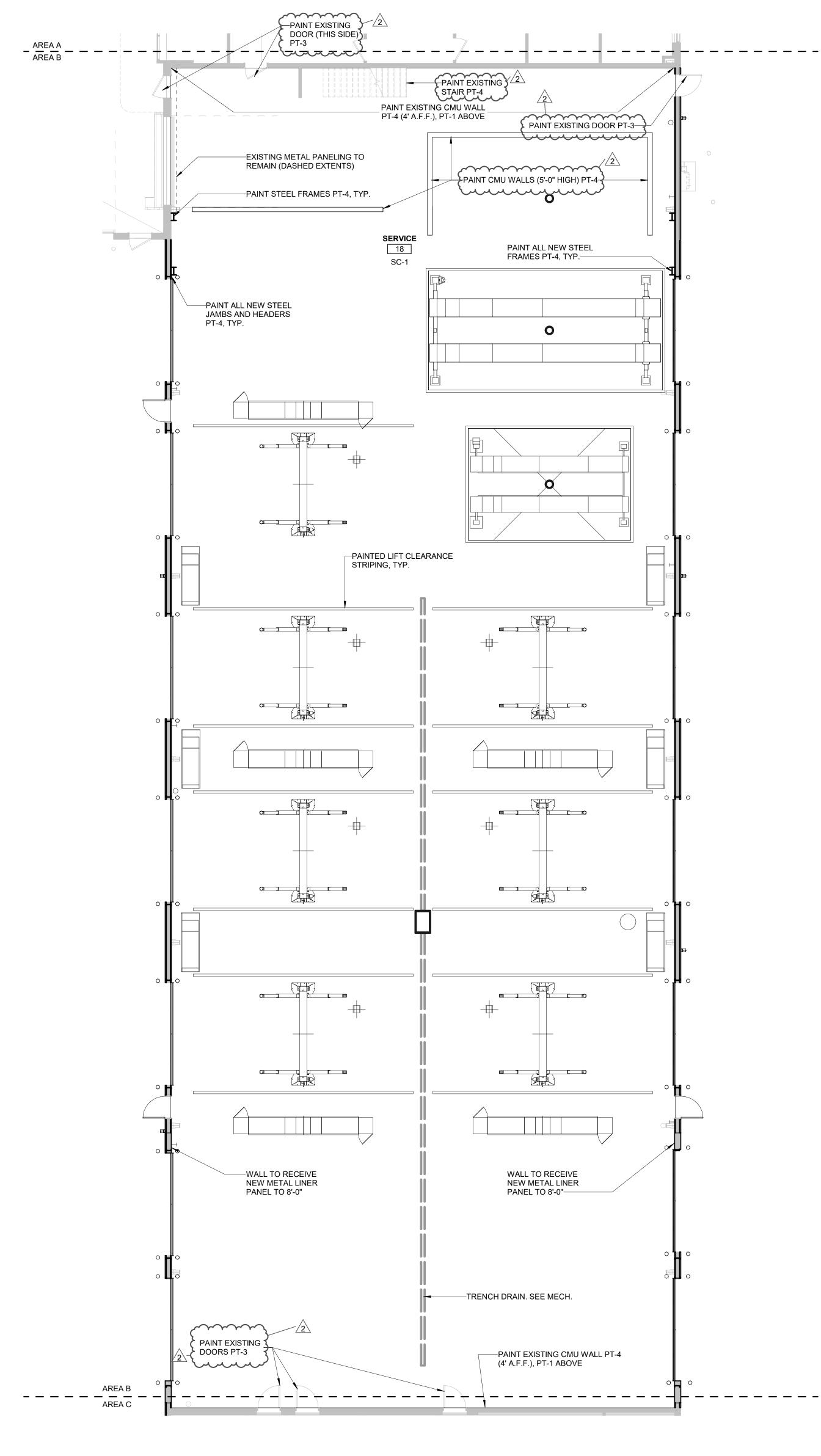
**PROJECT:** 23043 **DATE:** DEC 19, 2023 PROJECT STATUS: CD SUBMITTAL © COPYRIGHT BVH ARCHITECTURE



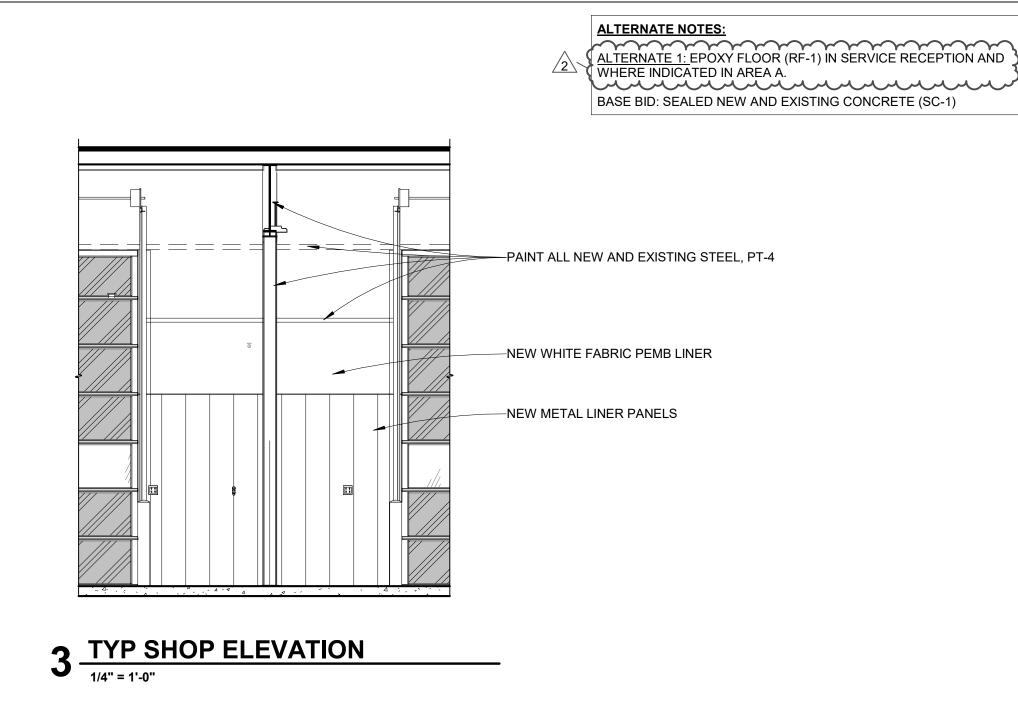


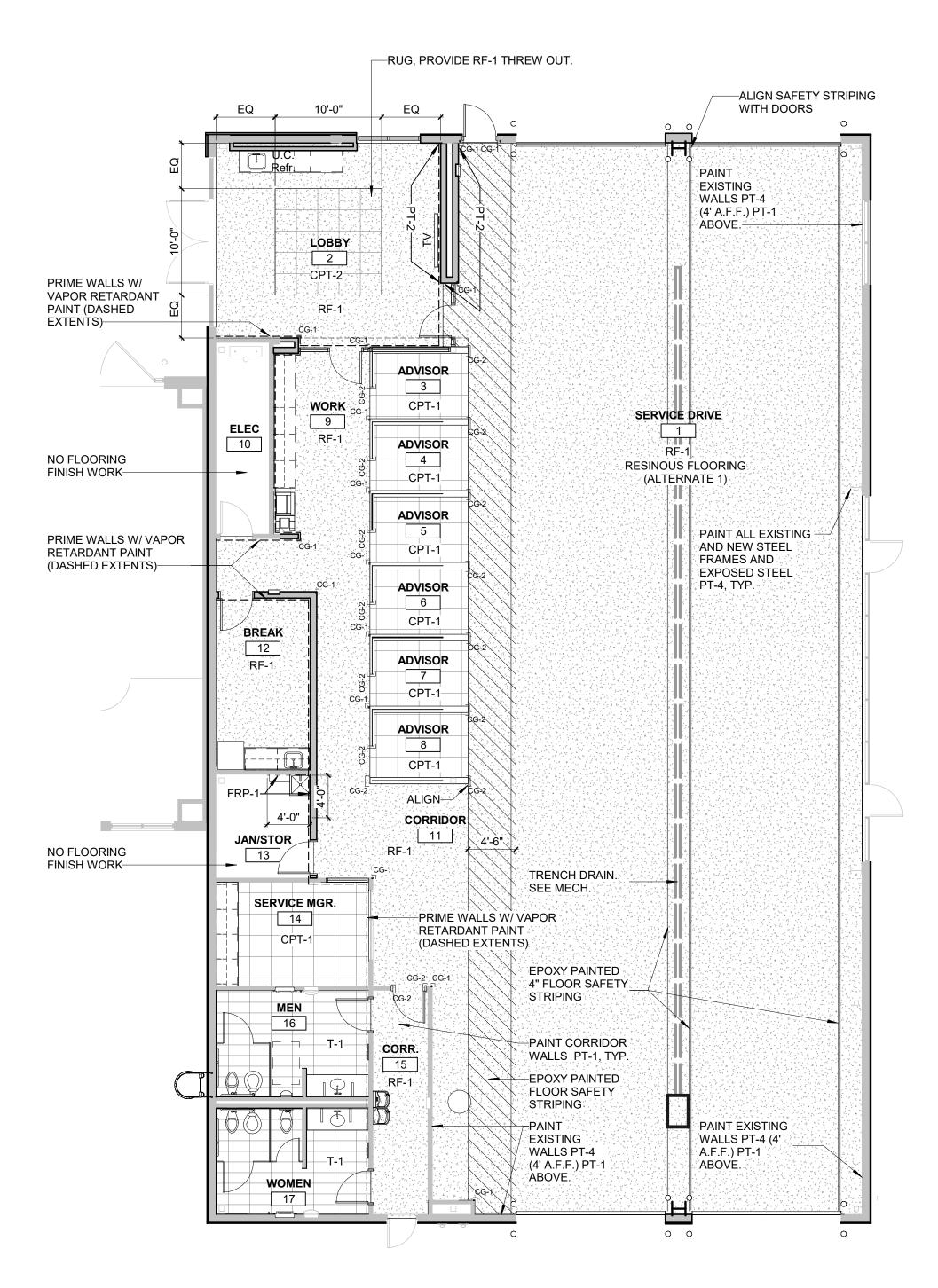
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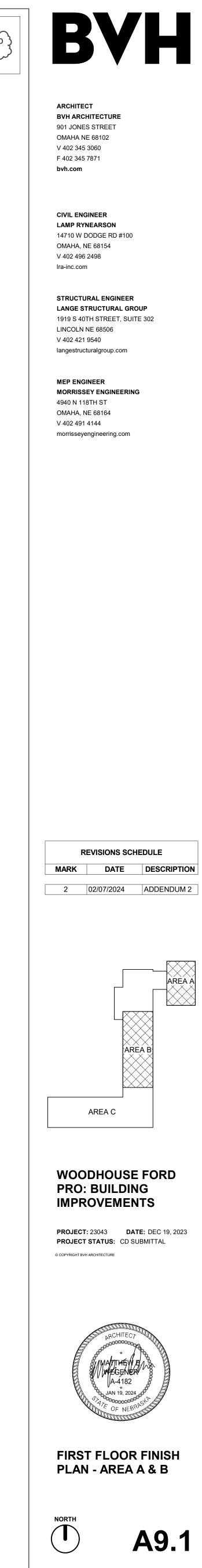


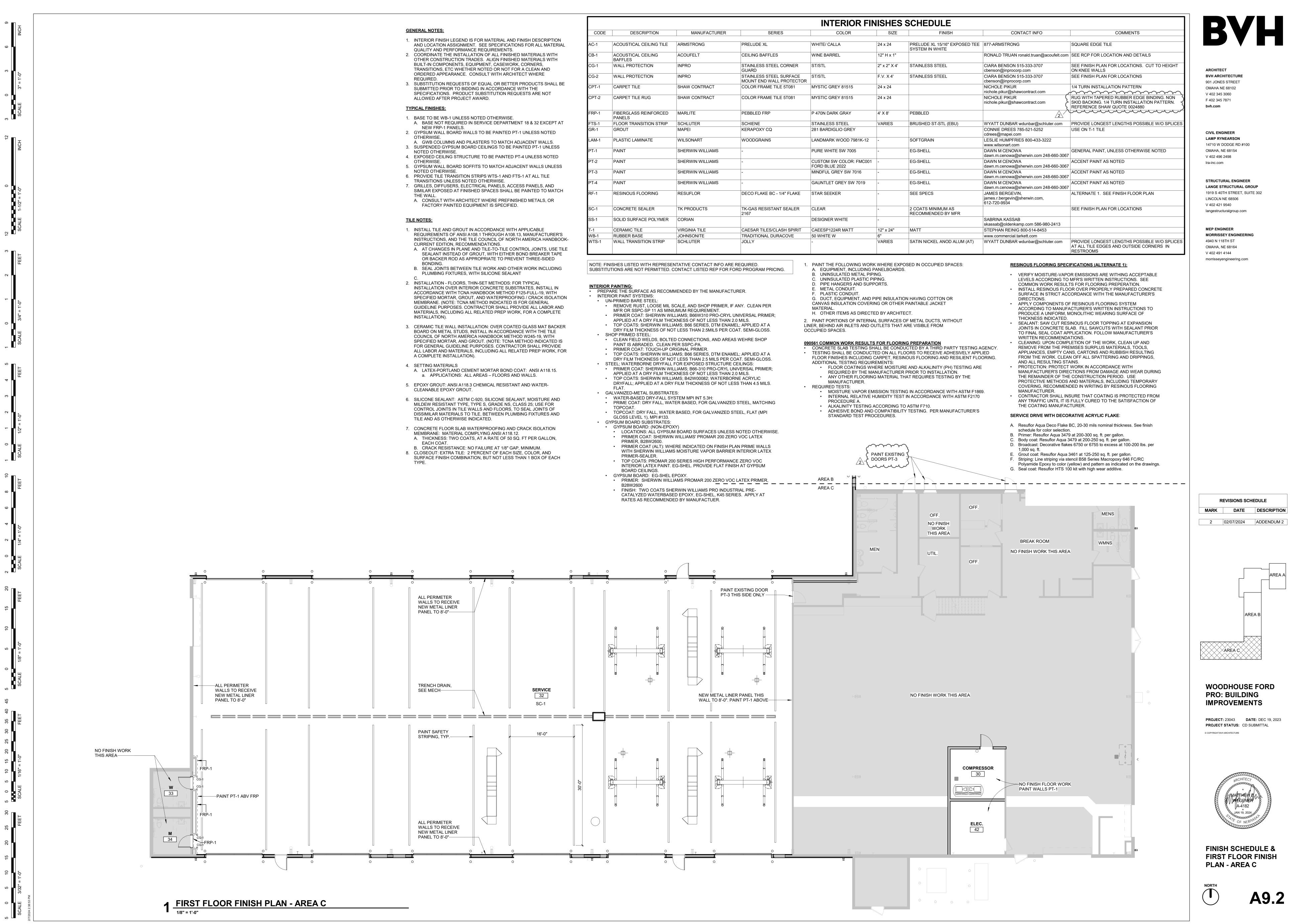


# 2 FIRST FLOOR FINISH PLAN - AREA B

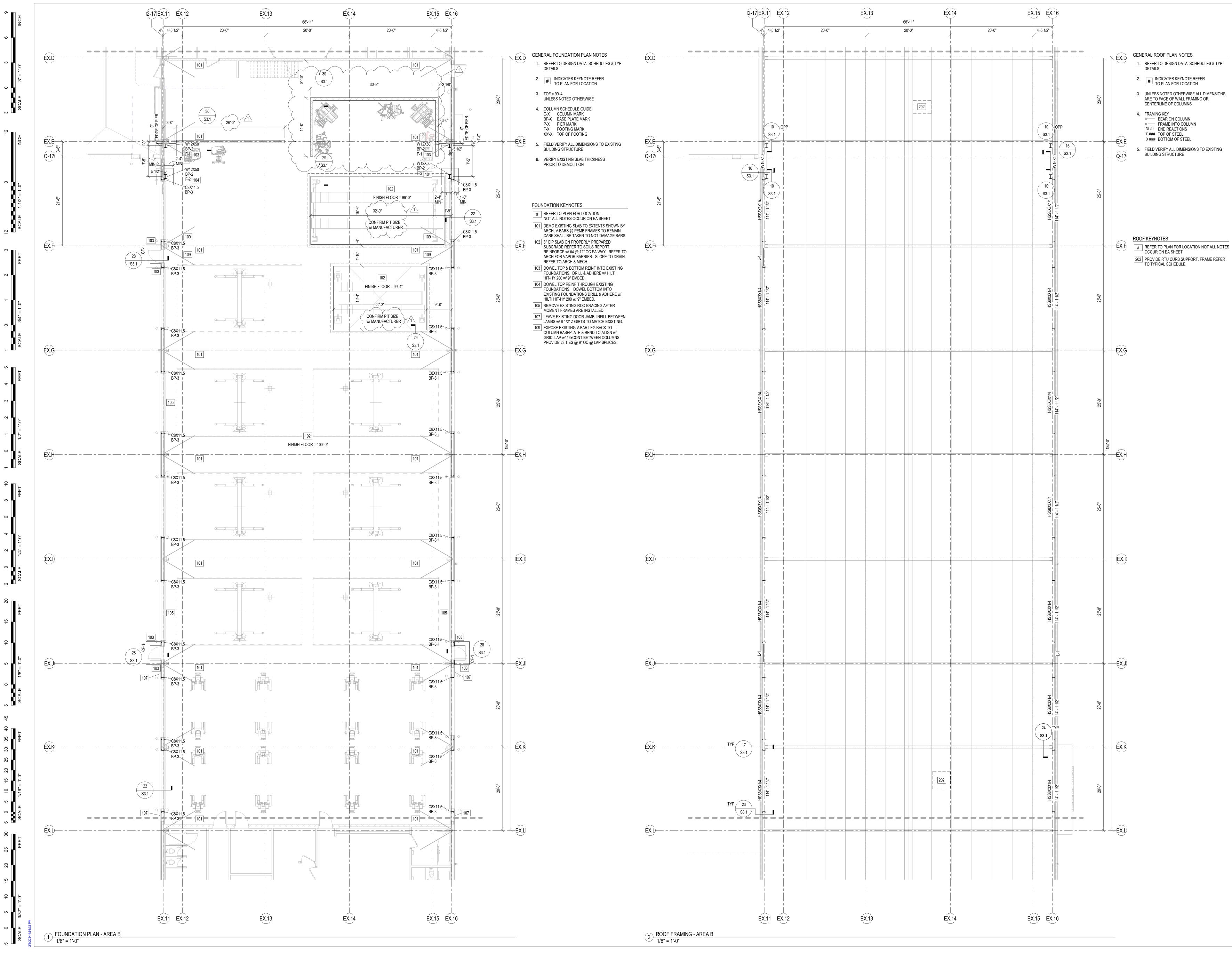


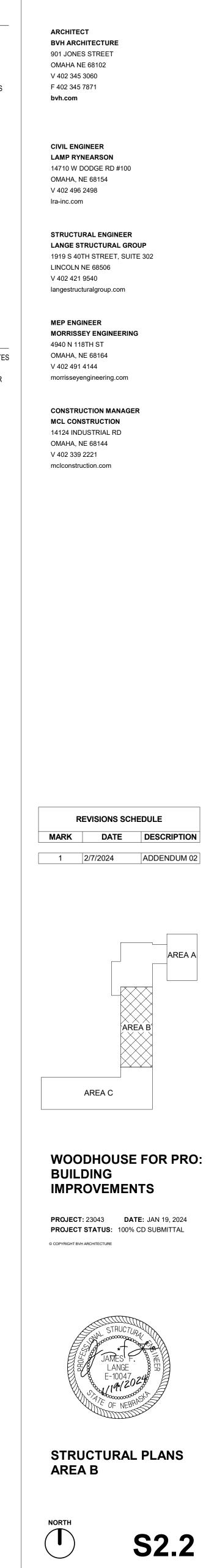




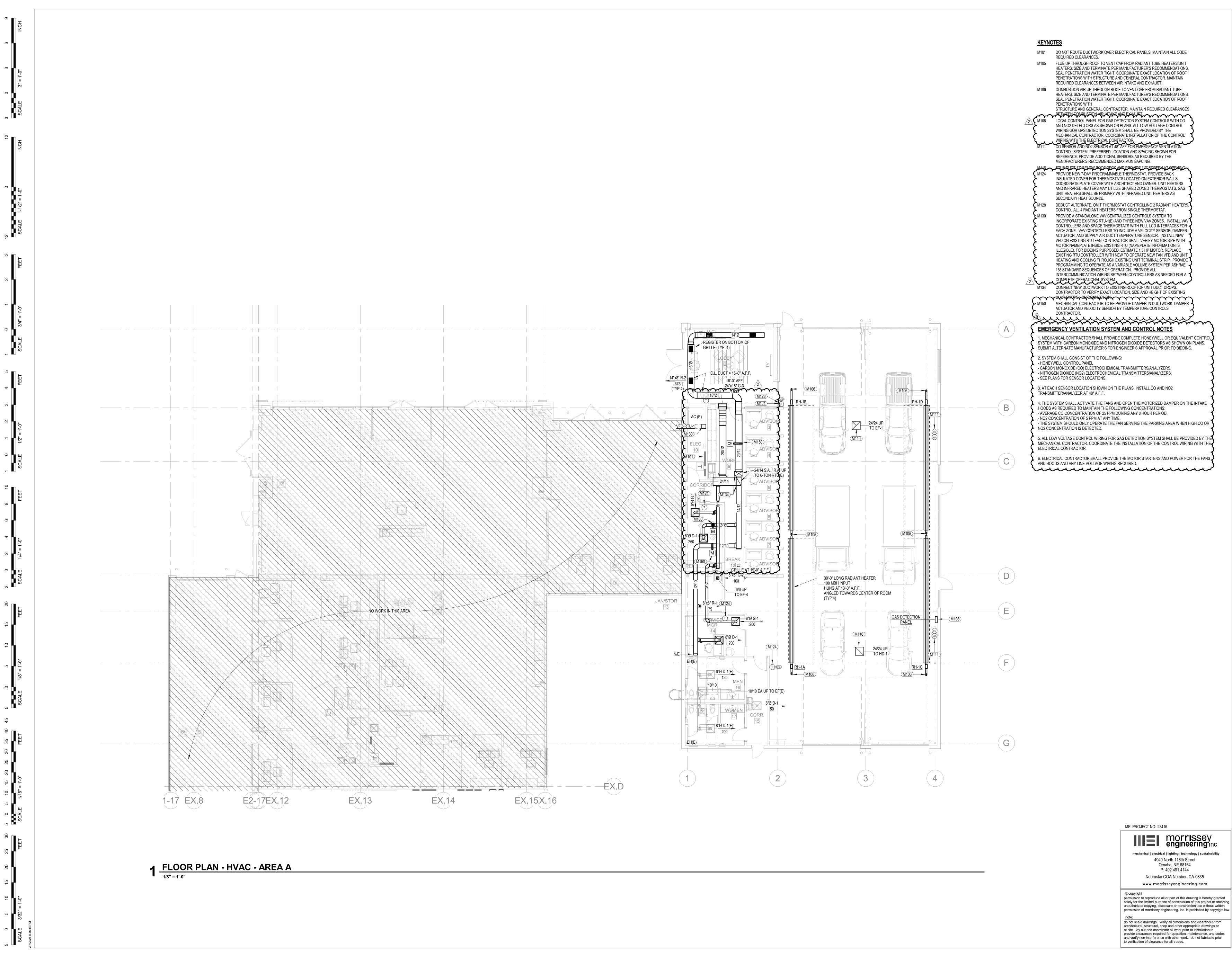


CODE	DESCRIPTION	MANUFACTURER	
AC-1	ACOUSTICAL CEILING TILE	ARMSTRONG	PRELUDE XL
CB-1	ACOUSTICAL CEILING BAFFLES	ACOUFELT	CEILING BAFF
CG-1	WALL PROTECTION	INPRO	STAINLESS S GUARD
CG-2	WALL PROTECTION	INPRO	STAINLESS S MOUNT END
CPT-1	CARPET TILE	SHAW CONTRACT	COLOR FRAM
CPT-2	CARPET TILE RUG	SHAW CONTRACT	COLOR FRAM
FRP-1	FIBERGLASS REINFORCED PANELS	MARLITE	PEBBLED FRF
FTS-1	FLOOR TRANSITION STRIP	SCHLUTER	SCHIENE
GR-1	GROUT	MAPEI	KERAPOXY C
LAM-1	PLASTIC LAMINATE	WILSONART	WOODGRAIN
PT-1	PAINT	SHERWIN WILLIAMS	-
PT-2	PAINT	SHERWIN WILLIAMS	-
PT-3	PAINT	SHERWIN WILLIAMS	-
PT-4	PAINT	SHERWIN WILLIAMS	-
RF-1	RESINOUS FLOORING	RESUFLOR	DECO FLAKE
SC-1	CONCRETE SEALER	TK PRODUCTS	TK-GAS RESI
SS-1	SOLID SURFACE POLYMER	CORIAN	2107
T-1	CERAMIC TILE	VIRGINIA TILE	CAESAR TILE
WB-1	RUBBER BASE	JOHNSONITE	TRADITIONAL
WTS-1	WALL TRANSITION STRIP	SCHLUTER	JOLLY





BVH



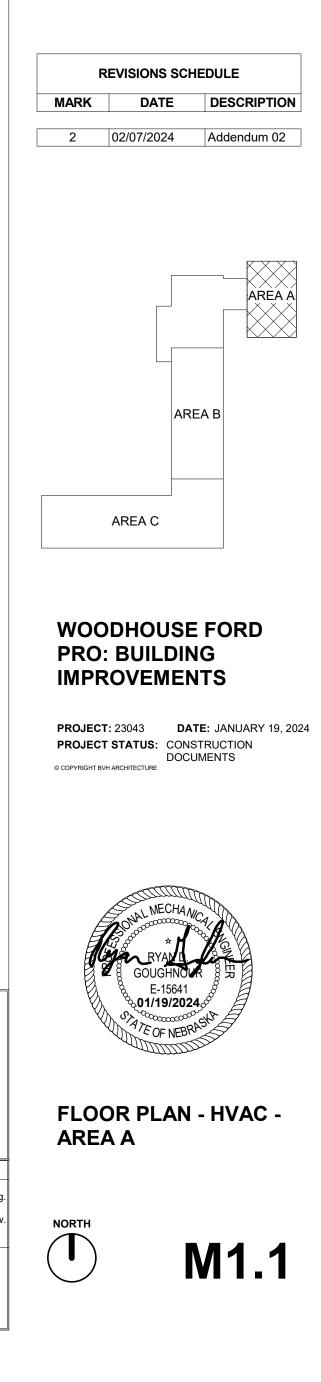


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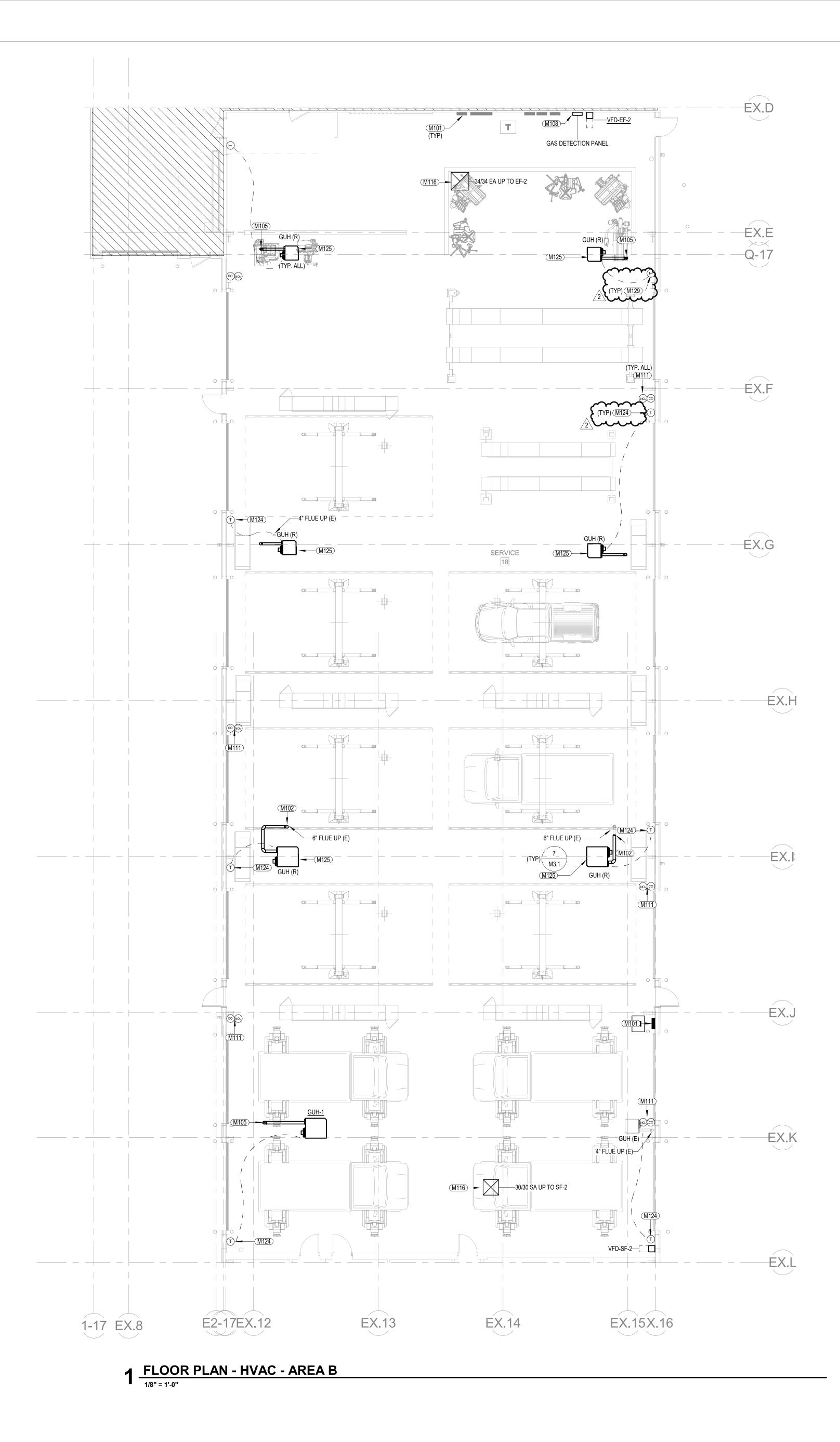
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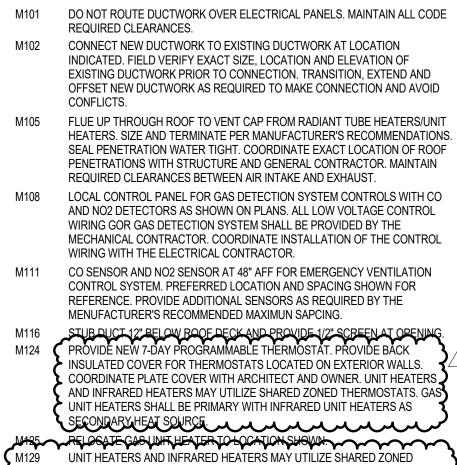
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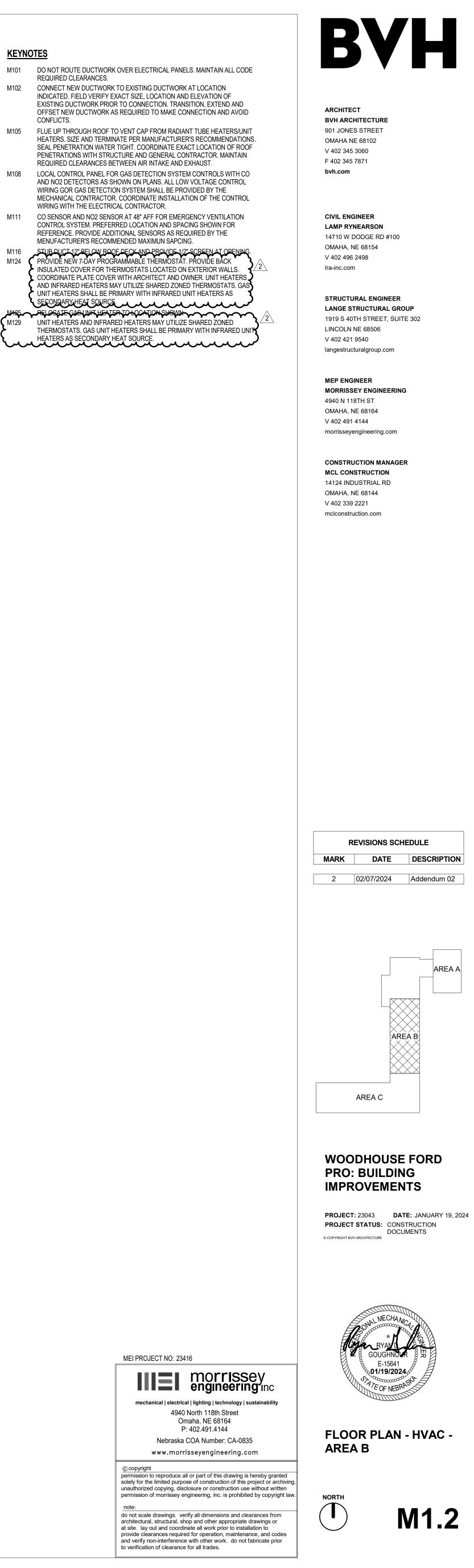


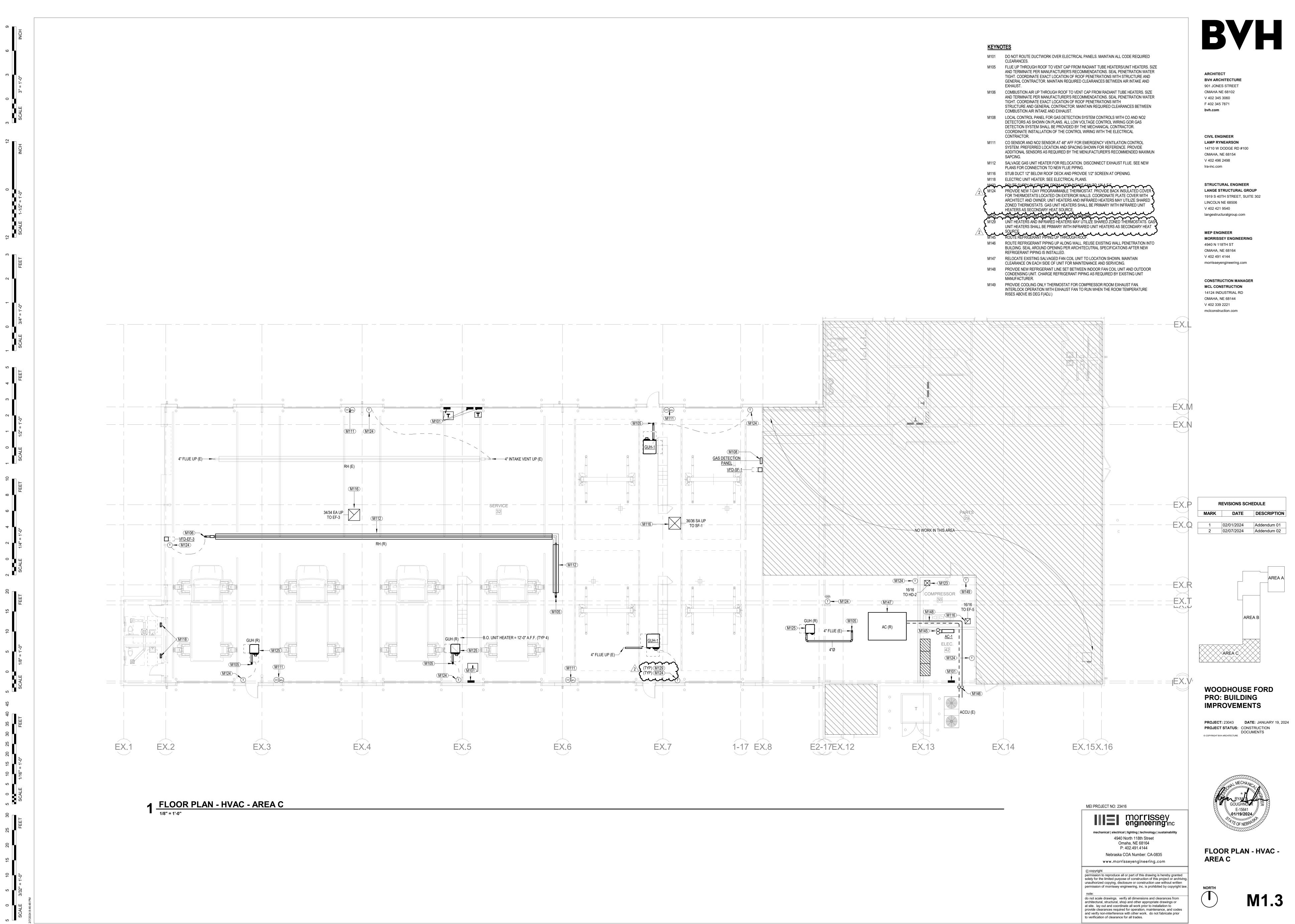
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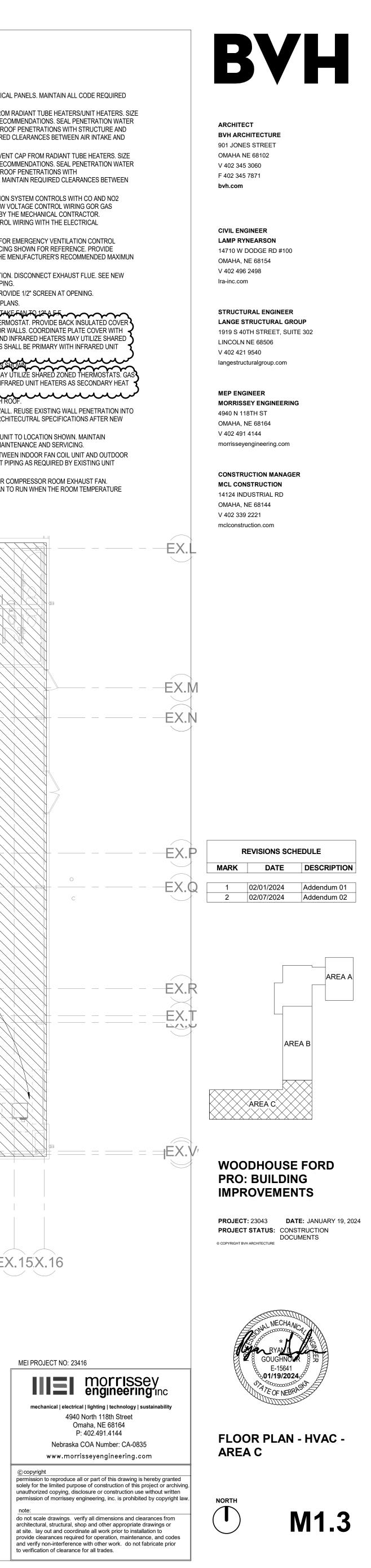


## **KEYNOTES**

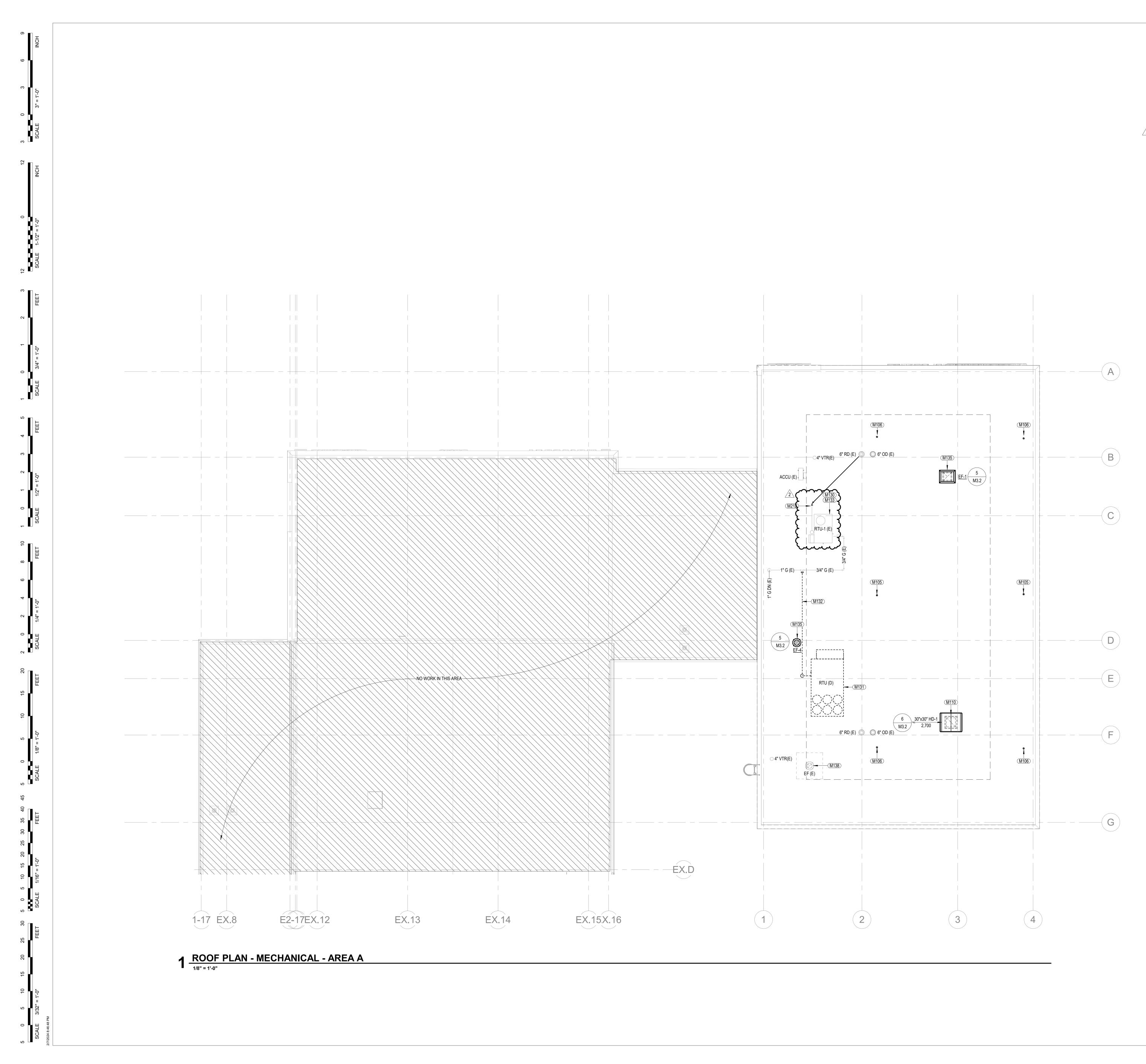


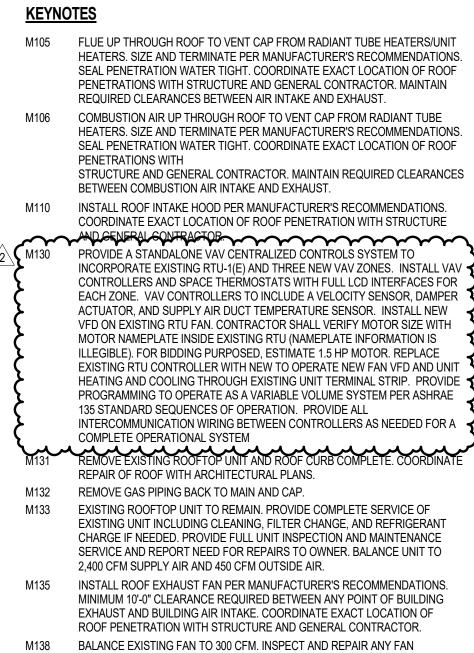






M101	DO NOT ROUTE DUCTWORK OVER ELECTRICAL PANELS. MAINTAIN ALL CODE REQUIRED CLEARANCES.
M105	FLUE UP THROUGH ROOF TO VENT CAP FROM RADIANT TUBE HEATERS/UNIT HEATERS. SIZE AND TERMINATE PER MANUFACTURER'S RECOMMENDATIONS. SEAL PENETRATION WATER TIGHT. COORDINATE EXACT LOCATION OF ROOF PENETRATIONS WITH STRUCTURE AND GENERAL CONTRACTOR. MAINTAIN REQUIRED CLEARANCES BETWEEN AIR INTAKE AND EXHAUST.
M106	COMBUSTION AIR UP THROUGH ROOF TO VENT CAP FROM RADIANT TUBE HEATERS. SIZE AND TERMINATE PER MANUFACTURER'S RECOMMENDATIONS. SEAL PENETRATION WATER TIGHT. COORDINATE EXACT LOCATION OF ROOF PENETRATIONS WITH STRUCTURE AND GENERAL CONTRACTOR. MAINTAIN REQUIRED CLEARANCES BETWEEN COMBUSTION AIR INTAKE AND EXHAUST.
M108	LOCAL CONTROL PANEL FOR GAS DETECTION SYSTEM CONTROLS WITH CO AND NO2 DETECTORS AS SHOWN ON PLANS. ALL LOW VOLTAGE CONTROL WIRING GOR GAS DETECTION SYSTEM SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR. COORDINATE INSTALLATION OF THE CONTROL WIRING WITH THE ELECTRICAL CONTRACTOR.
M111	CO SENSOR AND NO2 SENSOR AT 48" AFF FOR EMERGENCY VENTILATION CONTROL SYSTEM. PREFERRED LOCATION AND SPACING SHOWN FOR REFERENCE. PROVIDE ADDITIONAL SENSORS AS REQUIRED BY THE MENUFACTURER'S RECOMMENDED MAXIMUN SAPCING.
M112	SALVAGE GAS UNIT HEATER FOR RELOCATION. DISCONNECT EXHAUST FLUE. SEE NEW PLANS FOR CONNECTION TO NEW FLUE PIPING.
M116	STUB DUCT 12" BELOW ROOF DECK AND PROVIDE 1/2" SCREEN AT OPENING.
M118	ELECTRIC UNIT HEATER. SEE ELECTRICAL PLANS.
M123~	~ PQUIESUPPY BUCTWORKERQMHQOBUNIAKE FANTO 12" A F.F.
M124	PROVIDE NEW 7-DAY PROGRAMMABLE THERMOSTAT. PROVIDE BACK INSULATED COVER FOR THERMOSTATS LOCATED ON EXTERIOR WALLS. COORDINATE PLATE COVER WITH ARCHITECT AND OWNER. UNIT HEATERS AND INFRARED HEATERS MAY UTILIZE SHARED ZONED THERMOSTATS. GAS UNIT HEATERS SHALL BE PRIMARY WITH INFRARED UNIT HEATERS AS SECONDARY HEAT SOURCE.
M125 M129	PELUCATE GAS UNIT HEATER TO LOCATION SHOWN. UNIT HEATERS AND INFRARED HEATERS MAY UTILIZE SHARED ZONED THERMOSTATS. GAS UNIT HEATERS SHALL BE PRIMARY WITH INFRARED UNIT HEATERS AS SECONDARY HEAT SOURCE.
M145	ROUTE REFRIGERANT PIPING UP THROUGH ROOF.
M146	ROUTE REERIGERANT PIPING UP ALONG WALL RELISE EXISTING WALL PENETRATION INTO

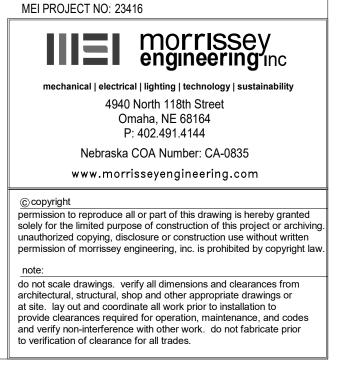




M212 EXTEND NEW CONDENSATE PIPING FROM EXISTING ROOFTOP UNIT DRAIN

AND DISCHARGE NEAR ROOF DRAIN.

DEFECTS.



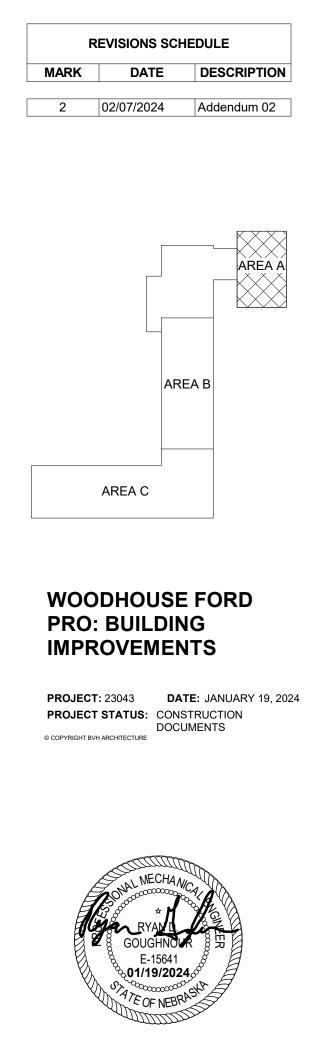


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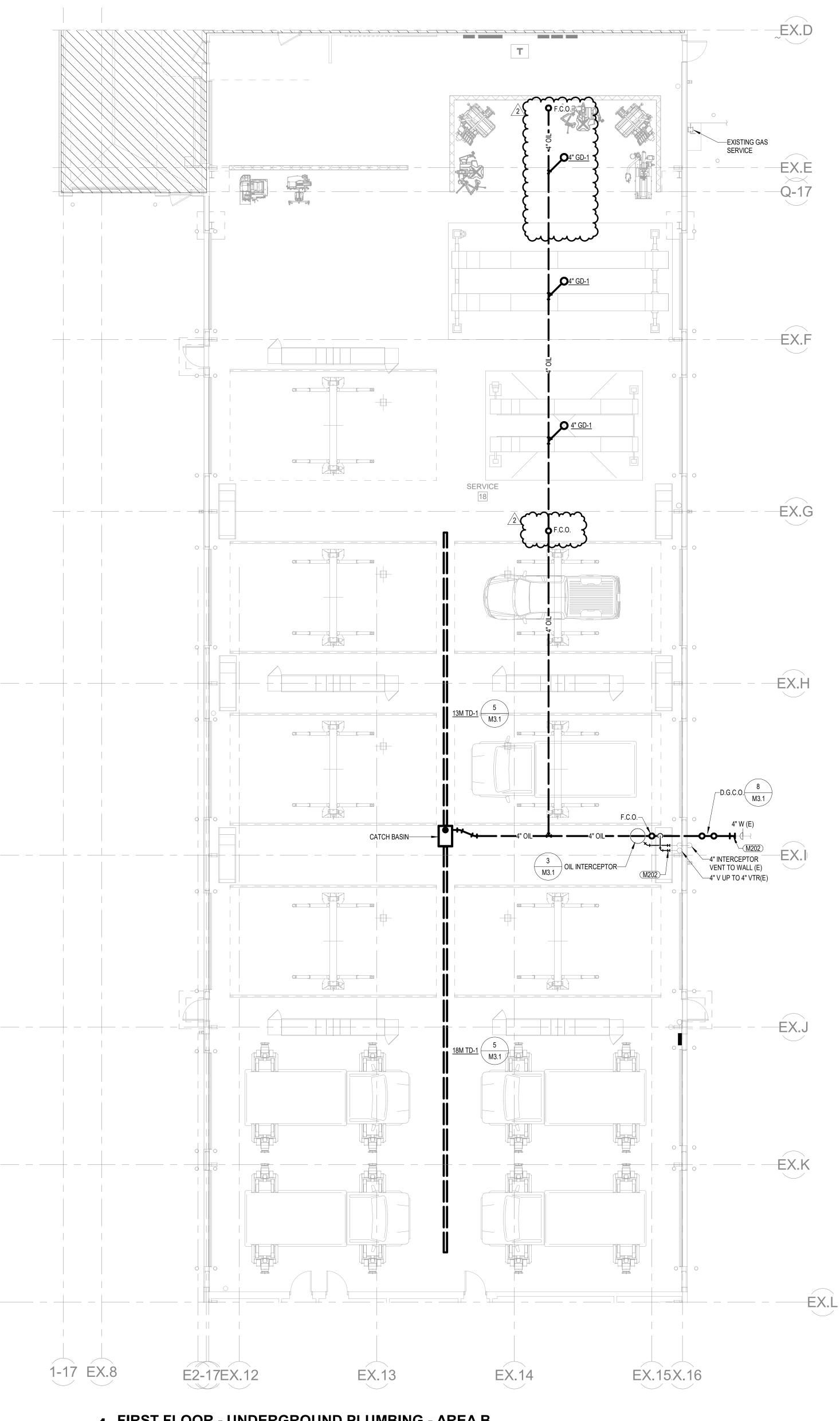
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## MEI PROJECT NO: 23416 morrissey engineering inc mechanical | electrical | lighting | technology | sustainability 4940 North 118th Street Omaha, NE 68164 P: 402.491.4144 Nebraska COA Number: CA-0835 www.morrisseyengineering.com © copyright permission to reproduce all or part of this drawing is hereby granted solely for the limited purpose of construction of this project or archiving. unauthorized copying, disclosure or construction use without written permission of morrissey engineering, inc. is prohibited by copyright law. note: do not scale drawings. verify all dimensions and clearances from architectural, structural, shop and other appropriate drawings or at site. lay out and coordinate all work prior to installation to provide clearances required for operation, maintenance, and codes and verify non-interference with other work. do not fabricate prior to verification of clearance for all trades.

**KEYNOTES** 

M202 CONNECT NEW PIPING TO EXISTING PIPING AT LOCATION INDICATED. FIELD VERIFY EXACT SIZE, LOCATION AND ELEVATION OF EXISTING PIPING PRIOR TO CONNECTION. TRANSITION, EXTEND AND OFFSET NEW PIPING AS REQUIRED TO MAKE CONNECTION AND AVOID CONFLICTS.

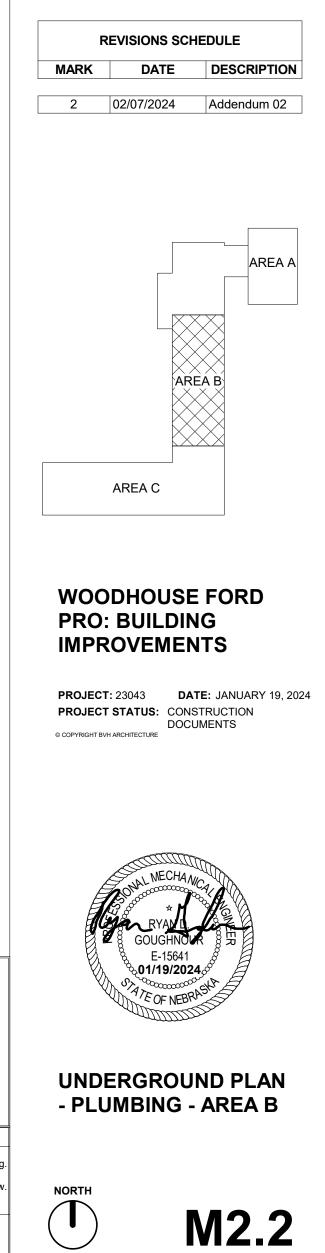


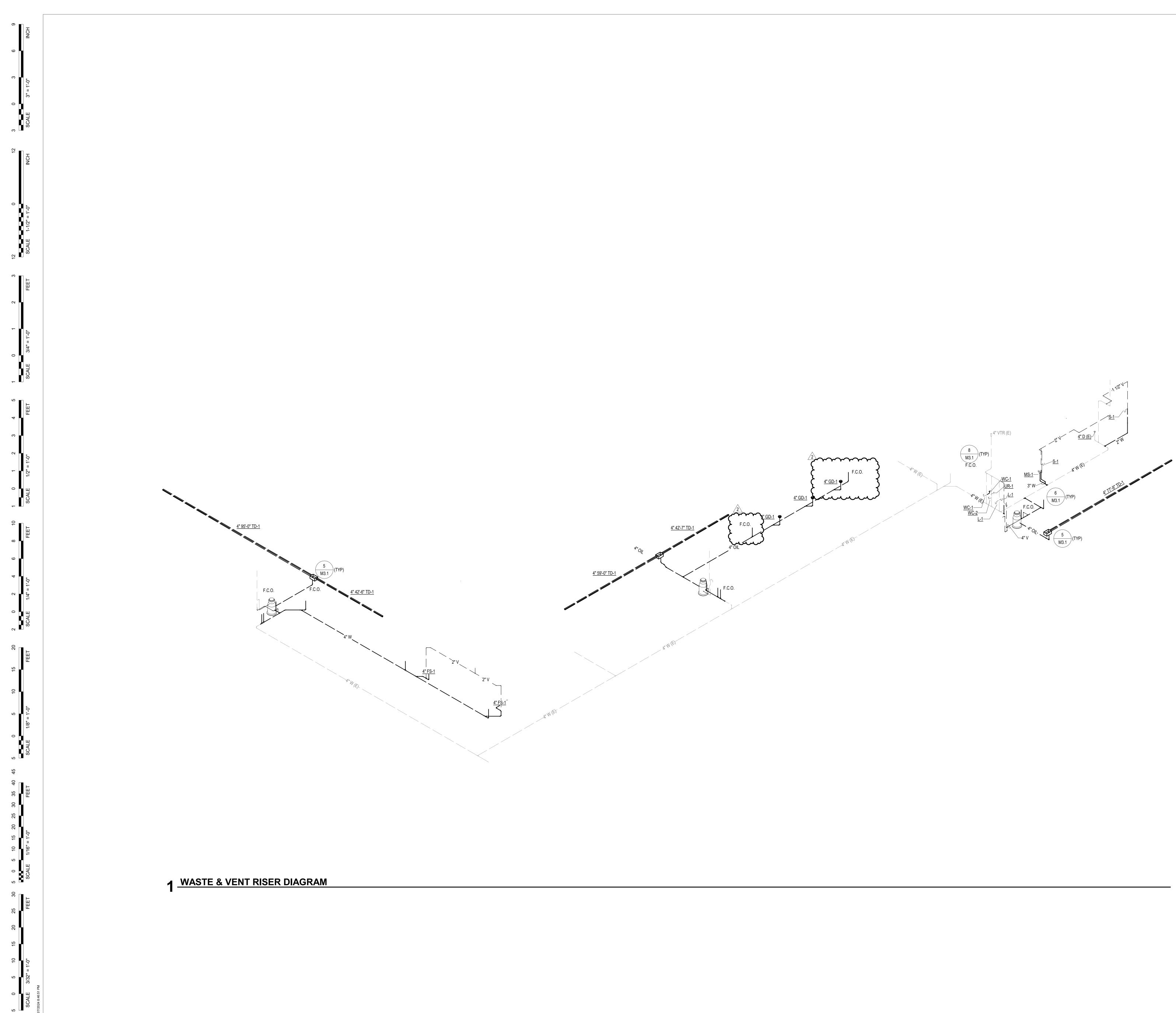
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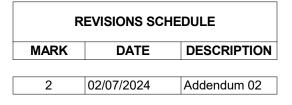
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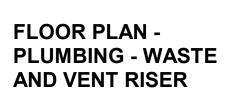
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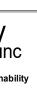


**PROJECT:** 23043 **DATE:** JANUARY 19, 2024 PROJECT STATUS: CONSTRUCTION DOCUMENTS © COPYRIGHT BVH ARCHITECTURE

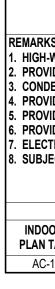








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<i>с</i> ,				1. 2.	PROVIDE WIT	TER HEATER WITH INTE	TURE RELIEF	VALVE.
3" = 1'-0"				4.	SINGLE ELEC	DISCONNECT BY ELECTR TRIC HEATING ELEMENTS DR FIXTURES SERVED. TEMPERATURE RISE @ '	S.	
3 0 SCALE				[10	. PROVIDE WI	TEMPERATURE RISE @ DUS (TANKLESS) POINT ( GPM FLOW RESTRICTOR. DISCONNECT BY ELECTR TH THERMOSTATIC CONT TH 0.2 GPM TURN ON FLC	ROLS.	ACTOR. SEE ELI
12 INCH					PLAN TAG EWH-1 IEWH-1	GENERAL MANUFACTURER A.O. SMITH EEMAX	MODEL DEL-20 SPEX80T	SERVES     Control       DOM. HW     (5)
0 /2" = 1'-0"						SERVICE	DU	CTWORK
SCALE 1-1/						SUPPLY AIR SUPPLY AIR		ROUND
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3 FEET						OUTSIDE AIR EXHAUST AIR		M FAN / HOOD M FAN / HOOD
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0 3/4" = 1'-0"								
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## **ELECTRIC WATER HEATER SCHEDULE**

ECTRICAL CONTRACTOR. SEE ELECTRICAL DRAWINGS. COORDINATE ELECTRICAL REQUIREMENTS WITH SUPPLIED UNIT AND WITH ELECTRICAL CONTRACTOR.

## E @ 1.0 GPM. NNT OF USE ELECTRIC WATER HEATER.

ECTRICAL CONTRACTOR. SEE ELECTRICAL DRAWINGS. COORDINATE ELECTRICAL REQUIREMENTS WITH SUPPLIED UNIT AND WITH ELECTRICAL CONTRACTOR.

AL			-	TANK	DOME	STIC HOT WATE	R	ELECTR	CAL		ELECTR	IC HEAT		
R	MODEL	SERVES	STORAGE CAPACITY	DIMENSIONS (DIA. Ø x H)	RECOVERY	DISCHARGE TEMP.	TEMP. RISE	VOLTAGE / PHASE	FLA	CAPACITY (kW)	kW / STAGE	# OF ELEMENTS	# OF STAGES	REMARKS
	DEL-20	DOM. HW	20	22"Ø x 23"	15 GPH	120 °F	80 °F	277 V / 1	10.8 A	3.0 kW	3.0 kW	1	1	(1) (2) (3) (4)
	SPEX80T	(5)	-	-	(6)	103 °F	55 °F	277 V / 1	28.9 A	8.0 kW	8.0 kW	1	1	(7) (8) (9) (10) (11)

## **DUCTWORK INSULATION SCHEDULE (1) (2)**

DUCTWORK	APPLICATION	INSULATION TYPE	INSULATION THICKNESS	MINIMUM R-VALUE	VAPOR RETARDER	REMARKS
ROUND	ABOVE CEILING	MINERAL FIBER BLANKET	2-3/16"	R-6	YES	-
RECTANGULAR	ALL	DUCT LINER	1-1/2"	R-6	YES	-
ROUND	EXPOSED DOUBLE WALL SPIRAL	DUCT LINER	1"	R-3	YES	(3) (4)
RECTANGULAR	RTU DUCT DROP	DUCT LINER	1-1/2"	R-6	YES	-
FROM FAN / HOOD	BACK 36" INTO BUILDING	MINERAL FIBER BLANKET	2-3/16"	R-6	YES	-
FROM FAN / HOOD	BACK 36" INTO BUILDING	MINERAL FIBER BLANKET	2-3/16"	R-6	YES	-

#### TION TYPE AND THICKNESS SHALL MEET ALL REQUIREMENTS OF 2018 IECC. ECIFICATION SECTION 23 07 00 FOR ADDITIONAL INFORMATION.

UCT PERFORATED SHEET METAL WITH 1" INTERSTITIAL INSULATION AND OUTER DUCT SPIRAL DUCT MATCHING DUCT PRESSURE CLASS. D DUCTWORK SHALL BE PRIMED FOR FIELD PAINTING.

## PIPING INSULATION SCHEDULE (1) (2) (3)

	PIPING SIZES	INSULATION TYPE	INSULATION THICKNESS	VAPOR RETARDER	REMARKS
V)	ALL	MINERAL FIBER	1/2"	YES	-
RECIRC.)	1/2" TO 2"	MINERAL FIBER	1/2"	NO	-
OOF)	ALL	MINERAL FIBER	1/2"	YES	-
	ALL	MINERAL FIBER	1/2"	YES	-
	ALL	NONE	-	-	-
	ALL	NONE	-	-	-

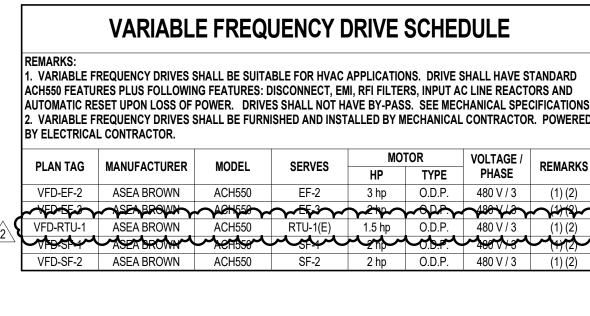
#### N TYPE AND THICKNESS SHALL MEET ALL REQUIREMENTS OF 2018 IECC. FICATION SECTIONS 22 07 20 & 23 07 20 FOR ADDITIONAL INFORMATION.

METER	PLAN TAG	GAS LOAD (BTU/h)
#1	(E)	150,000
#1	RH-1	100,000
#1	RH-1	100,000
#1	GUH (E)	100,000
#1	RH-1	100,000
#1	RH-1	100,000
#1	GUH-1 (E)	60,000
#1	RH (E)	150,000
#1	GUH (R)	100,000
#1	GUH (R)	100,000
#1	GUH-1	150,000
#1	RH (R)	150,000
#1	GUH (R)	100,000
#1	GUH (R)	100,000
#1	GUH (R)	150,000
#1	GUH (R)	150,000
#1	GUH-1	150,000
#1	GUH (R)	100,000
#1	GUH (R)	100,000
#1	GUH-1	150,000
#1	RTU-10T (E)	200,000
#1	RTU-7.5T (E)	200,000
#1	(R)	30,000
rand total: 23		2,790,000

2. PROVIDE WITH ROOF SLOPE SO 3. CONTROLLED 4. FANS SHALL B 5. CONTROLLED 6. ROOF MOUNTE	D, DIRECT DRIVE, CEI 18" INSULATED ROOI THAT THE FANS SIT LI BY TIMECLOCK. FAN S E STARTED AUTOMAT BY COOLING ONLY TH D, BELT DRIVE, CENT D, HOODED PROPELL	F CURB COMP, EVEL AND PLU SHALL RUN DL FICALLY BY RE IERMOSTAT. S RIFUGAL DOW
PLAN TAG	MANUFACTURER	MODEL
PLAN TAG EF-1	MANUFACTURER GREENHECK	
		MODEL
EF-1	GREENHECK	MODEL G-180-VG
EF-1 EF-2	GREENHECK GREENHECK	<b>MODEL</b> G-180-VG GB-300
EF-1 EF-2 EF-3	GREENHECK GREENHECK GREENHECK	MODEL G-180-VG GB-300 GB-300
EF-1 EF-2 EF-3 EF-4	GREENHECK GREENHECK GREENHECK GREENHECK	MODEL G-180-VG GB-300 GB-300 G-097-VG

## REMARKS 1. GAS FIRED, POWER-VENTED, LOW-STATIC, AXIAL FAN UNIT HEATER. 2. PROVIDE WITH DISCHARGE LOUVERS, FAN GUARDS, AND FACTORY MOUNT DISCONNECT SWITCH. 3. PROVIDE WITH FLUE EXHAUST PIPE AND ROOF TERMINATION. SIZE PER MANUFACTURER'S RECOMMENDATIONS. 5. STANDARD COLOR SELECTED BY ARCHITECT

		GENER	AL.			PHYSICAL SIZE		FAN		N	IOTOR		ELEC	TRICAL				GAS-	FIRED HEATIN	IG				
PLAN TAC	MANUFACTURER	MODEL	SERVES	FINISH	CONFIG.	WEIGHT	QTY.	AIRFLOW	HP	RPM	TYPE	CONTROL DEVICE	VOLTAGE / PHASE	FLA	MOCP	GA FUEL	S LOAD	OUTPUT	# OF STAGES	EFF.	CONN. GAS	SIZES EXH.	REMARKS	REMARKS
GUH	REZNOR	UDX-030	-	-	(1)	80	1	384 CFM	0.06 hp	1550	T.E.F.M.	(4)	120 V / 1	1.9 A	15.0 A	NATURAL GAS	30,000	24,900	1	83%	1/2"	4"	(3)	(2) (4)
GUH-1	REZNOR	UDX-150	SEE PLANS	(5)	(1)	200	1	1921 CFM	0.25 hp	1050	T.E.F.M.	(4)	120 V / 1	3.8 A	15.0 A	NATURAL GAS	150,000	124,500	1	83%	1/2"	5"	(3)	(2) (4)



## SPLIT SYSTEM AIR CONDITIONER SCHEDULE

1. HIGH-WALL DUCTLESS AIR-COOLED SPLIT SYSTEM WITH OUTDOOR REMOTE HEAT PUMP. PLAN TAG ON SCHEDULE CORRESPONDS WITH INDOOR UNIT. ALL UNITS HAVE OUTDOOR UNIT WITH MATCHING NUMERAL. 2. PROVIDE WITH CONDENSATE PUMP CAPABLE OF A MINIMUM OF 6 FOOT OF HEAD. PUMP RESERVE SHALL HAVE HIGH LEVEL ALARM.

3. CONDENSING UNIT LOCATED ON ROOF. PROVIDE ALL ADDITIONAL REFRIGERANT PIPING ACCESSORIES AS REQUIRED TO ACCOMMODATE REFRIGERANT LINE LENGTH AND CONDENSING UNIT ELEVATION (SEE PLANS). 4. PROVIDE MANUFACTURER'S STANDARD WALL MOUNTED WIRED THERMOSTAT (PAC). 5. PROVIDE COMPRESSOR WITH 5-YEAR WARRANTY.

6. PROVIDE WITH MANUFACTURER'S WASHABLE , MILDEW-RESISTANT, FILTERS. 7. ELECTRICAL DISCONNECT FOR INDOOR UNIT SHALL BE INTEGRAL PROVIDED WITH EQUIPMENT. ELECTRICAL DISCONNECT FOR OUTDOOR UNIT BY ELECTRICAL CONTRACTOR. SEE ELECTRICAL DRAWINGS. 8. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCT BY ONE OF THE FOLLOWING MANUFACTURERS: LENNOX, MITSUBISHI, YORK, TRANE, CARRIER

			GENERAL				Pl	HYSICAL SIZE			ELECTRICAL		REFRIG.	COC		
DOOR	INDOOR	OUTDOOR	OUTDOOR	MANUFACTURER	SERVES	CONFIG.	INDOOR UNIT	OUTDOOR UNIT	WEIGHT	AIRFLOW RANGE	VOLTAGE /	MCA	MOCP	TYPE	C	APACITY (BT
AN TAG	MODEL	MODEL	PLAN TAG	(8)	SERVES	CONFIG.	(L x W x H)	(L x W x H)	(lbs.)		PHASE	AC / ACCU	ACCU		TONS	TOTAL
AC-1	PKA-A12HA7	PUZ-A12NKA7	HP-1	MITSUBISHI	ELEC 42	(1)	36" x 10" x 12"	32" x 12" x 25"	29	320-370-425	208 V / 1	1 / 11	15	R-410a	1.0	12,000

## FAN SCHEDULE

OWNBLAST EXHAUST FAN WITH EC MOTOR. ATIBLE WITH ROOFING SYSTEM, BIRDSCREEN, MOTORIZED DAMPER (SAME VOLTAGE AS FAN MOTOR & INTERLOCKED WITH FAN), AND ELECTRICAL DISCONNECT. ROOF CURBS FOR EF-2, EF-3, EF-5, SF-1, SF-2 SHALL BE SLOPED TO MATCH EXISTING UMB ON THE ROOF. CONFIRM ROOF SLOPE WITH EXISTING ROOF.

JRING OCCUPIED HOURS ONLY. ESPECTIVE CO / NO2 GAS DETECTION SYSTEMS. OCCUPANTS SHALL HAVE THE ABILITY TO MANUALLY OPERATE THE FANS FOR VENTILATION PURPOSES. ET ROOM SET POINT TO 85°F(ADJ).

WNBLAST EXHAUST FAN. VE ROOF SUPPLY FAN.

ENE	RAL			PHYSICAL SIZE FAN							ELECTRICAL							
	SERVES	TYPE	ACC.	ROOF / WALL	WEIGHT	AIRFLOW	E.S.P.	WH	EEL	DRIVE		MAXIMUM		HP	RPM	TYPE	CONTROL	VOLTAGE /
	JERVEJ	ITE	ACC.	OPENING SIZE	(lbs)	(CFM)	(in-wg)	TYPE	DIA. Ø	DRIVE	BHP	RPM	SONES	пг		IIFE	DEVICE	PHASE
	SERVICE DRIVE 1	(1)	(2)	26.5" x 26.5"	81	2700 CFM	0.35	B.I.	18"	DIRECT	0.44	884	9.8	0.75	1750	0.D.P.	(4)	208 V / 1
	SERVICE 18	(6)	(2)	36.5" x 36.5"	175	9400 CFM	0.35	B.I.	30"	BELT	2.1	661	17.2	3	1750	0.D.P.	(4)	460 V / 3
	SERVICE 32	(6)	(2)	36.5" x 36.5"	142	7700 CFM	0.35	B.I.	30"	BELT	1.36	565	13.1	2	1750	O.D.P.	(4)	460 V / 3
	JAN/STOR 13	(1)	(2)	12.5" x 12.5"	19	100 CFM	0.35	B.I.	10"	DIRECT	0.02	1725	3.5	0.02	1725	O.D.P.	(3)	120 V / 1
	COMPRESSOR	(1)	(2)	18.5" x 18.5"	54	1200 CFM	0.35	B.I.	14.0"	DIRECT	0.16	937	6.9	0.5	1750	0.D.P.	(5)	120 V / 1
6	SERVICE 32	(7)	(2)	38.5" x 38.5"	531	9400 CFM	0.35	B.I.	36"	BELT	1.45	924	28	2	1750	0.D.P.	(4)	460 V / 3
0	SERVICE 18	(7)	(2)	32.5" x 32.5"	394	7700 CFM	0.35	B.I.	30"	BELT	1.38	1050	28	2	1750	O.D.P.	(4)	460 V / 3

## GAS UNIT HEATER SCHEDULE

4. PROVIDE WITH 120V THERMOSTAT (REMOTE MOUNT) AND CONTROL TRANSFORMER. THERMOSTAT SHALL HAVE FAN ONLY SWITCH TO ALLOW FAN (NO HEAT) TO OPERATE MANUALLY.

<ol> <li>PROVIDE WITH 12</li> <li>PROVIDE LINE VC</li> <li>PROVIDE PRE AN</li> <li>PROVIDE 3 YEAR</li> <li>PROVIDE WITH ST</li> <li>PROVIDE WITH OT</li> </ol>				GAS-FI	RED RAD	DIANT HE	ATER SC	HEDU	LE					
	DLTAGE THERMOSTA D POST PURGE LINE S WARRANTY ON CO FAINLESS STEEL GA UTSIDE COMBUSTIO BE 2-STAGE OPERA	S BURNER WITH ATS AS SHOWN E VOLT CONTRO DMPONENTS, 10 IS FLEX CONNE( IN AIR DUCT. ITION.	R ENTIRE LENGTH OF ELECTRONIC SPARK ON PLAN. SINGLE THE DL PANELS. YEAR WARRANTY ON CTION AND GAS COCK	ERMOSTAT SH I TUBING. K.	IALL BE SHARED	BETWEEN 2 HEAT	ERS.							
		GENE	RAL			PHYSICA	AL SIZE			GAS-FIRED H	EATING			
PLAN TAG	MANUFACTURER	MODEL	SERVES	TUBING CONST.	CONFIG.	DIMENSIONS (D x W x H)	LENGTH	CAPACITY (BTU/h)	GAS LO FUEL	DAD INPUT	EFF.		ent Ype	REMARKS
RH	REZNOR	VPT	SEE PLANS	-	2-STAGE	SEE PLANS	84'-0"	150,000	NATURAL GAS		82%		SITIVE	ALL
RH-1A	REZNOR	VPT	SERVICE DRIVE 1	(1)	2-STAGE	SEE PLANS	30'-0"	100,000		,	82%			(2-9)
RH-1B RH-1C	REZNOR	VPT VPT	SERVICE DRIVE 1 SERVICE DRIVE 1	(1)	2-STAGE 2-STAGE	SEE PLANS SEE PLANS	30'-0" 30'-0"	100,000	NATURAL GAS	,	82% 82%		SITIVE SITIVE	(2-9) (2-9)
RH-1D	REZNOR	VPT	SERVICE DRIVE 1	(1)	2-STAGE	SEE PLANS	30'-0"	100,000	NATURAL GAS	,	82%		SITIVE	(2-9)
					D	OOF HOC								
		GENER/ IFACTURER	MODEL SERVE FUNCTI	ON D	W         H           56.3"         19.5"		NECK SIZE           W         L         Di           30"         30"         1000000000000000000000000000000000000	AIRFLC ia. (CFM 2,700 0" 1.200	) ÁREA ) 6.3	AIRFI (FPM) NECK VELOCITY 432 524	(ft <sup>2</sup> ) CORE (	216 0.0	<b>WG</b> ) 044"	<b>REMARKS</b> (1) (2) (3) (4) (1) (2) (3) (4)
a. VERIFY QUA b. SEE PLANS I 2. NOISE CRITERIA 3. NON-RADIAL OP	NTITIES WITH PLANS FOR NECK SIZES. (NC) SHALL BE LES POSED BLADE DAMF	3. S THAN 25 ON D PER. MAIN BAL/	S WITH CEILING CONST DIFFUSERS, REGISTER ANCING SHALL BE DO PIRAL DUCT WITH 1" IN	S AND GRILLE	ES LOCATED IN OO NCH VOLUME DAI	CCUPIED SPACES. MPER AT TAKEOFI	F LOCATION OF N		OPPOSED BLAD	E DAMPER SH	IALL BE USED	For fine tunin	g only.	
		FUNCTION	DESC	RIPTION	MC	DUNTING (1)	DEFLECTION	AIR P.D.	MATERIAL	FINISH	NECK SIZE	FACE SIZE		
PLAN TAG MANUF					IVIC			(IN WG)			INLON JILE			REWVDRG
PLAN TAG EF		י יחחו וס					36Uo	. ,	OTEE!					REMARKS
D-1 KRUE	GER PLQ	SUPPLY RETURN / XFR		EDIFFUSER ERFORATED F		CT CEILING	360° PERFORATED	0.10"	STEEL	WHITE	SEE PLANS	24"x24"		(1) (2)
PLAN TAG EI	GER PLQ GER 6690	SUPPLY RETURN / XFR EXHAUST	PLAQUE ROUND NECK P RECT SINGLE DI	ERFORATED F	ACE AC		360° PERFORATED SINGLE 3/4"	. ,	STEEL STEEL STEEL	WHITE WHITE WHITE	SEE PLANS SEE PLANS SEE PLANS			
D-1 KRUE G-1 KRUE	GER PLQ GER 6690 GER 80H GER S80H	RETURN / XFR	ROUND NECK P	ERFORATED F EFLECTION GI EFLECTION GI	FACE AC RILLE RILLE W	CT CEILING	PERFORATED	0.10"	STEEL	WHITE	SEE PLANS	24"x24" 24"x24"	3/4" 3/4"	(1) (2) (1) (2)

CO	OLING			HEATING		
Y (B1	ſU/h)	MIN. NET	CAPACITY	AMBIENT	MIN. NET	REMARKS
L	SENSIBLE	SEER	(BTU/h)	TEMP. (DB)	COP	
0	9,200	20.8	9,200	17 °F	-	(2) (3) (4) (5) (6) (7)





ARCHITECT **BVH ARCHITECTURE** 901 JONES STREET OMAHA NE 68102 V 402 345 3060 F 402 345 7871 bvh.com

**CIVIL ENGINEER** LAMP RYNEARSON 14710 W DODGE RD #100 OMAHA, NE 68154 V 402 496 2498 Ira-inc.com

STRUCTURAL ENGINEER LANGE STRUCTURAL GROUP 1919 S 40TH STREET, SUITE 302 LINCOLN NE 68506 V 402 421 9540 langestructuralgroup.com

MEP ENGINEER MORRISSEY ENGINEERING 4940 N 118TH ST OMAHA, NE 68164 V 402 491 4144 morrisseyengineering.com

CONSTRUCTION MANAGER MCL CONSTRUCTION 14124 INDUSTRIAL RD OMAHA, NE 68144 V 402 339 2221 mclconstruction.com

F	REVISIONS SCHEDULE											
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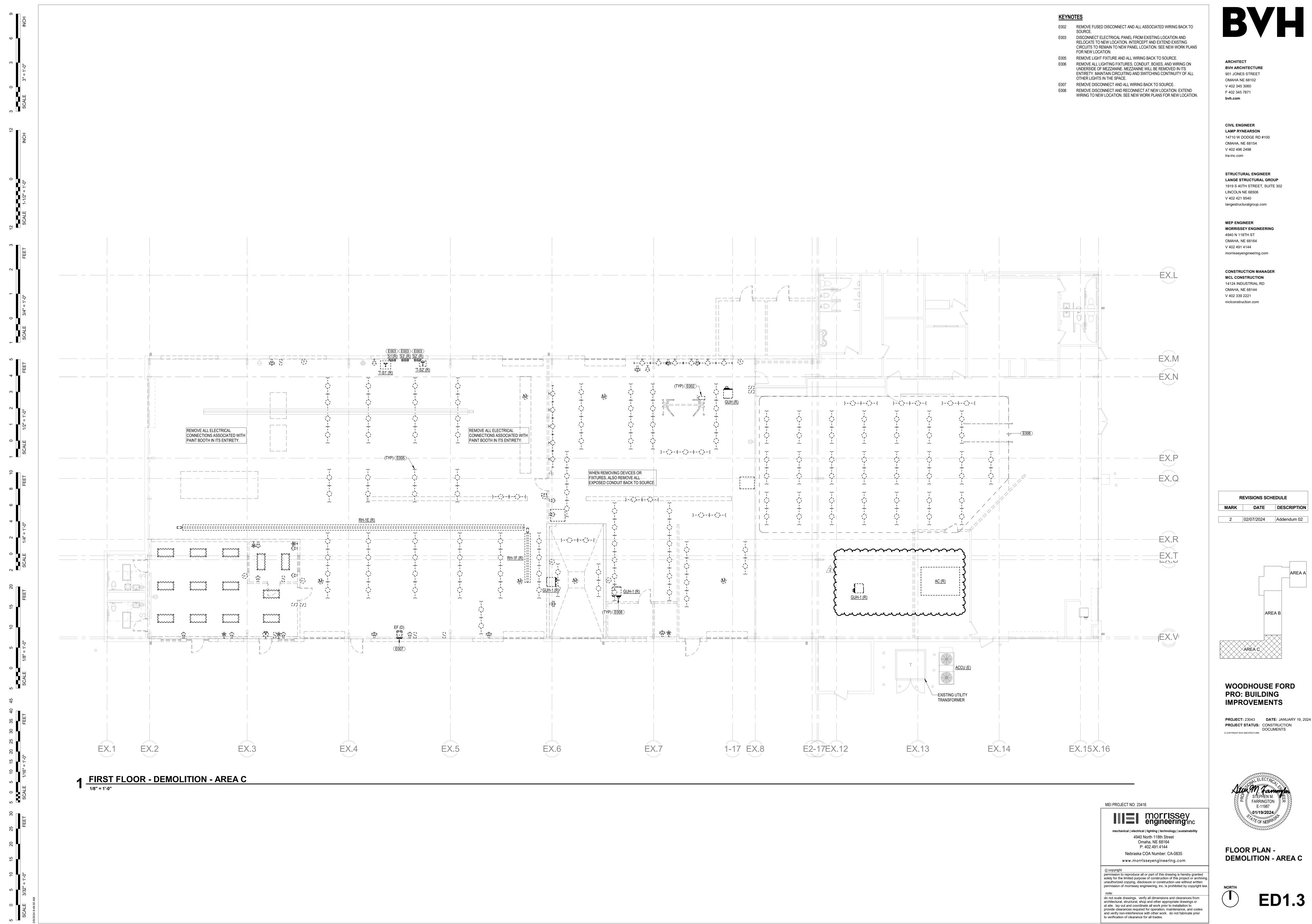


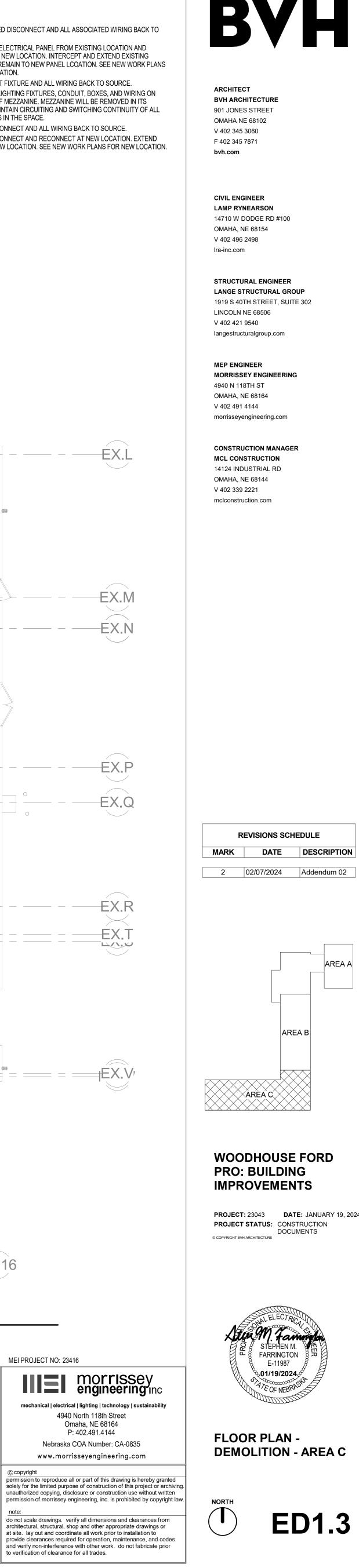
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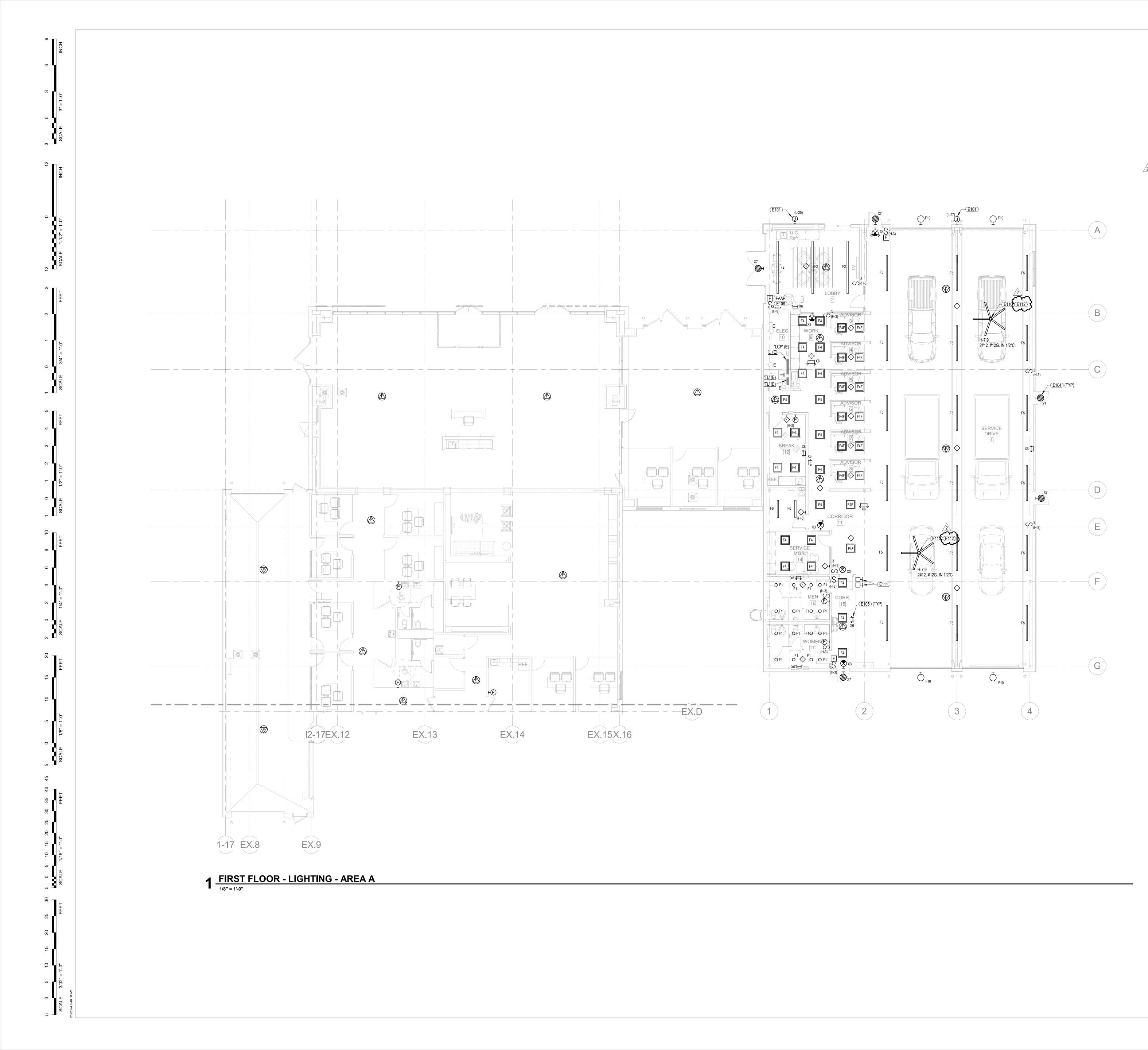


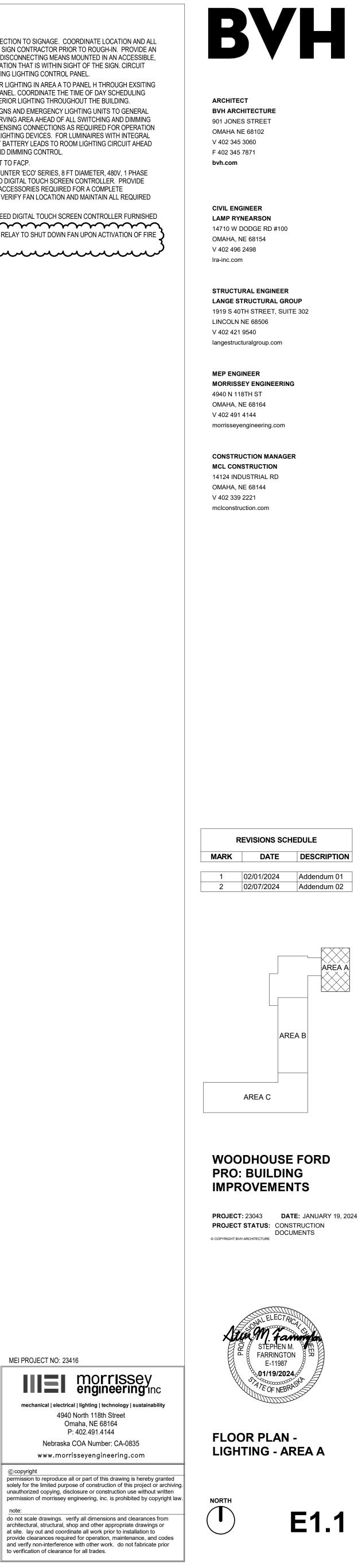


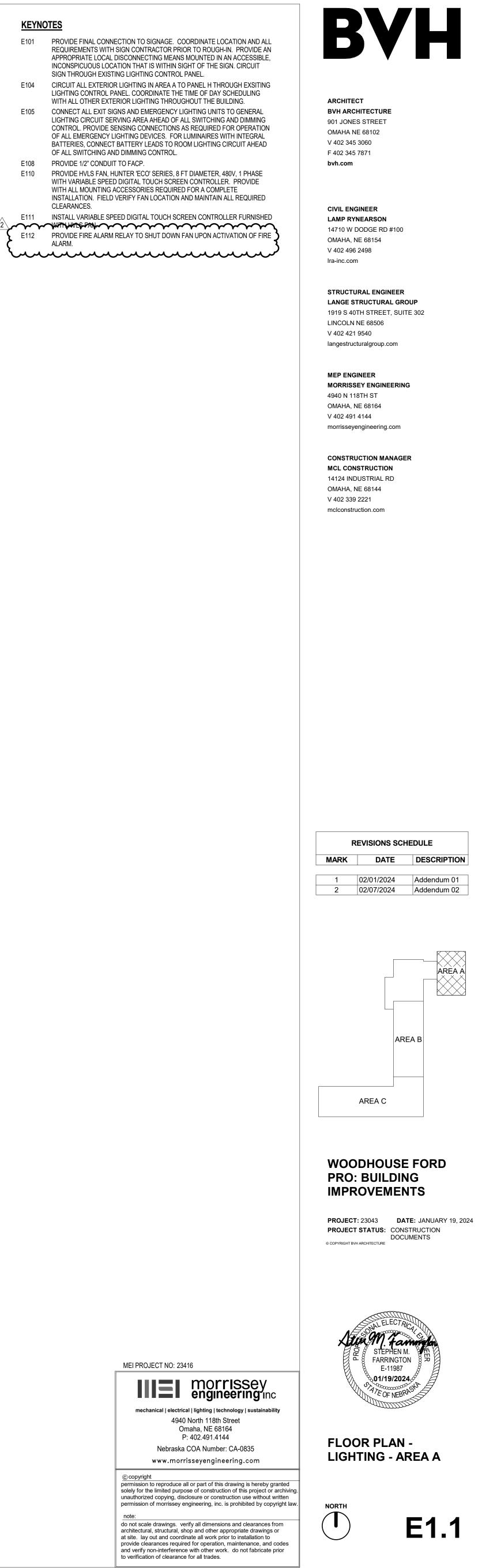




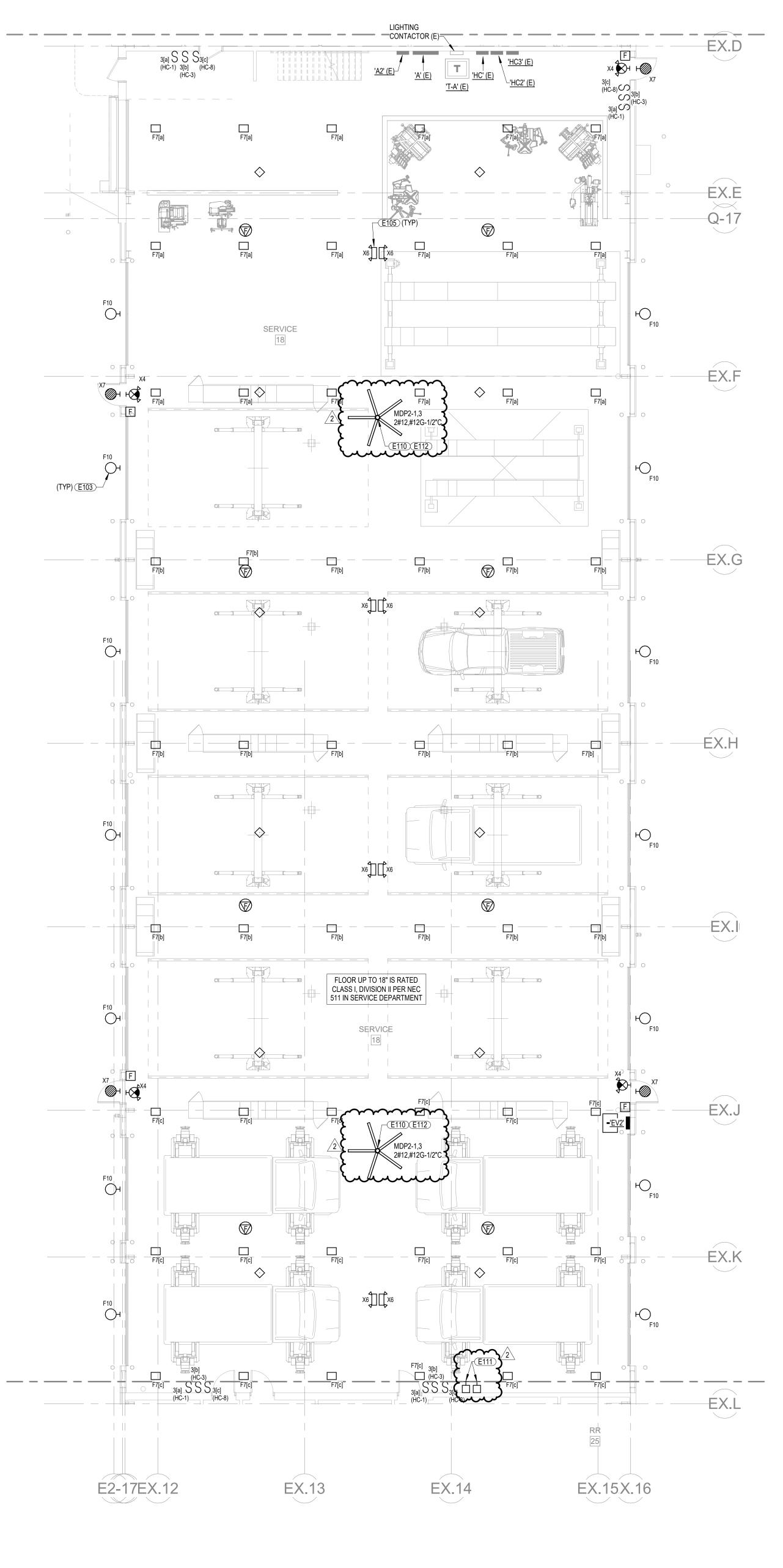






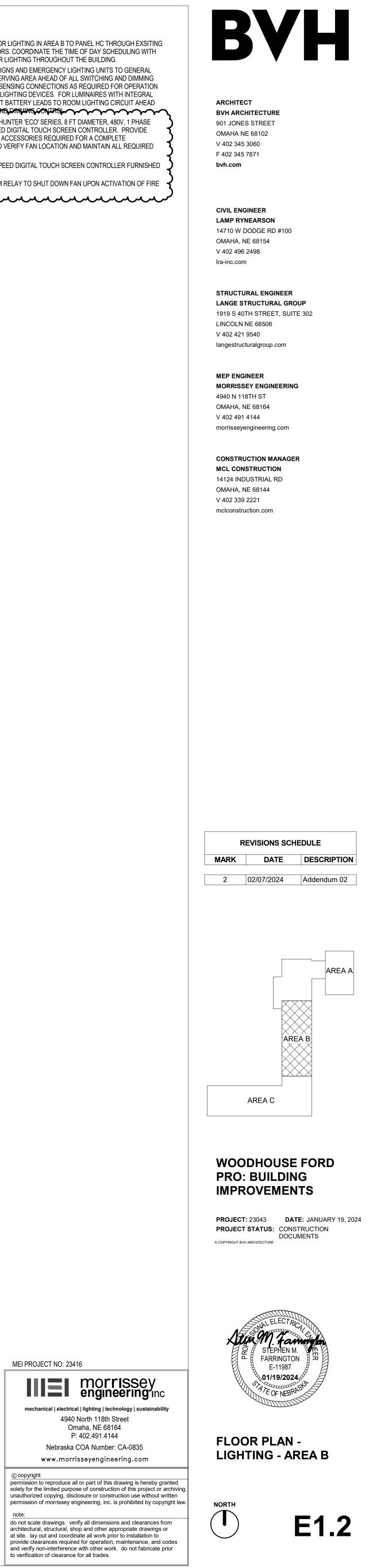


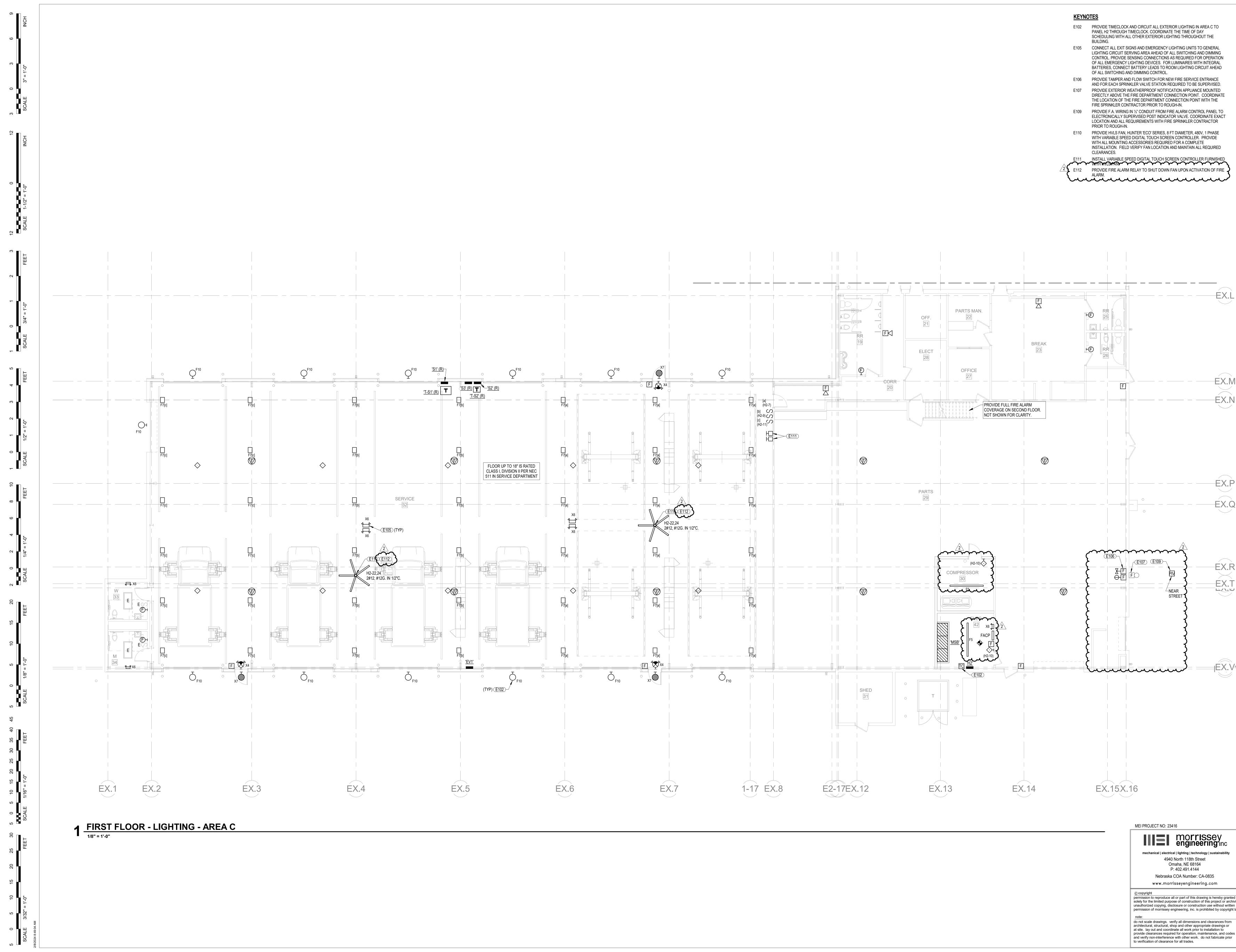
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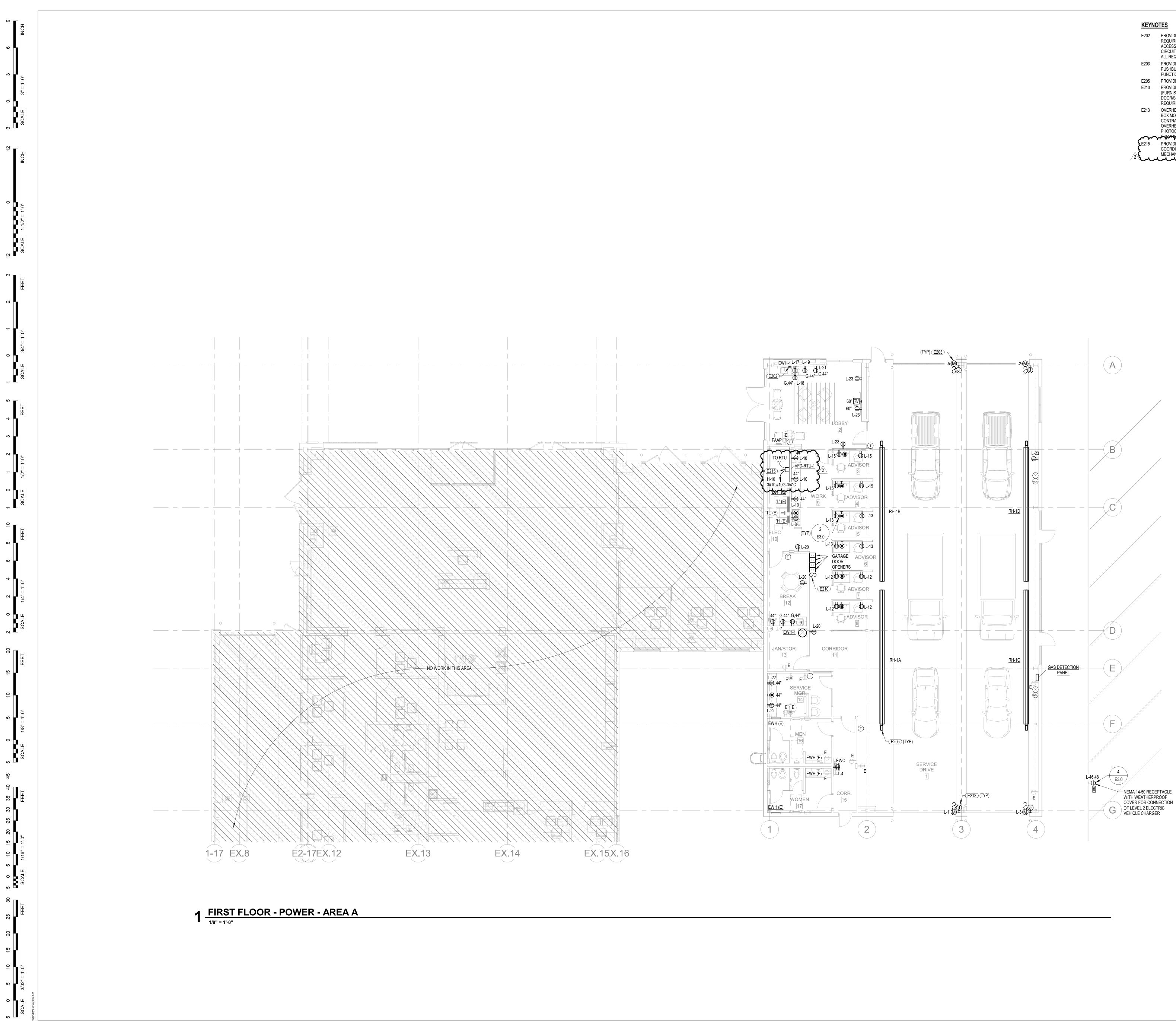
1 FIRST FLOOR - LIGHTING - AREA B

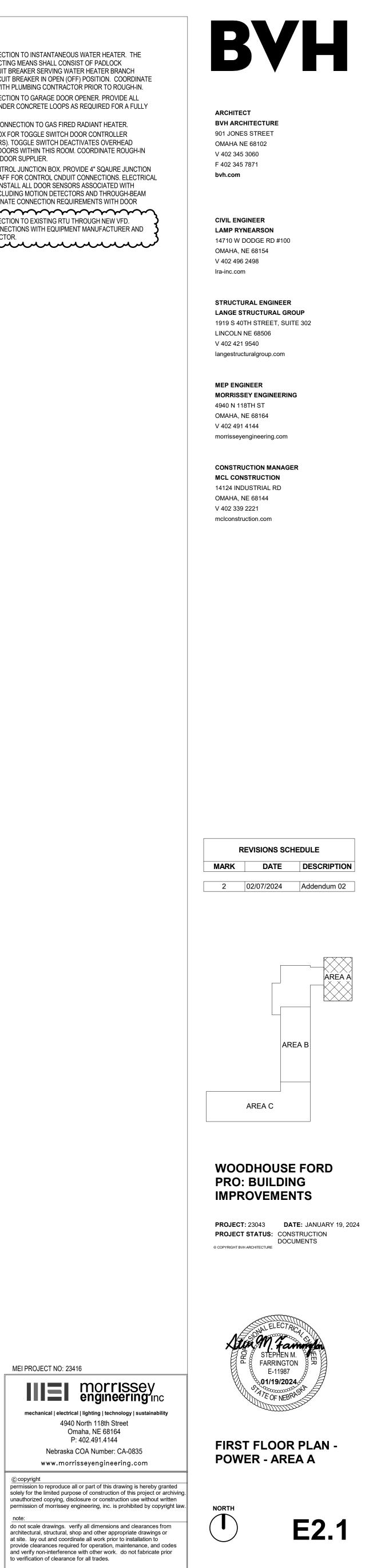
KEYNO	DTES
E103	CIRCUIT ALL EXTERIOR LIGHTING IN AREA B TO PANEL HC THROUGH EXSITING LIGHTING CONTACTORS. COORDINATE THE TIME OF DAY SCHEDULING WITH ALL OTHER EXTERIOR LIGHTING THROUGHOUT THE BUILDING.
E105	CONNECT ALL EXIT SIGNS AND EMERGENCY LIGHTING UNITS TO GENERAL LIGHTING CIRCUIT SERVING AREA AHEAD OF ALL SWITCHING AND DIMMING CONTROL. PROVIDE SENSING CONNECTIONS AS REQUIRED FOR OPERATION OF ALL EMERGENCY LIGHTING DEVICES. FOR LUMINAIRES WITH INTEGRAL BATTERIES, CONNECT BATTERY LEADS TO ROOM LIGHTING CIRCUIT AHEAD
$\land$ $\checkmark$ $\checkmark$ $\checkmark$	
E110	PROVIDE HVLS FAN, HUNTER 'ECO' SERIES, 8 FT DIAMETER, 480V, 1 PHASE WITH VARIABLE SPEED DIGITAL TOUCH SCREEN CONTROLLER. PROVIDE WITH ALL MOUNTING ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION. FIELD VERIFY FAN LOCATION AND MAINTAIN ALL REQUIRED CLEARANCES.
<b>E</b> 111	INSTALL VARIABLE SPEED DIGITAL TOUCH SCREEN CONTROLLER FURNISHED WITH HVLS FAN.
<b>E</b> 112	PROVIDE FIRE ALARM RELAY TO SHUT DOWN FAN UPON ACTIVATION OF FIRE





PANEL SCHED BUILDIN E105 CONNE LIGHTIN CONTR OF ALL BATTEF OF ALL E106 PROVIE BATTEF OF ALL E106 PROVIE DIRECT THE LO FIRE SF E109 PROVIE ELECTF LOCATI PRIOR E110 PROVIE ELECTF LOCATI PRIOR E110 PROVIE	CT ALL EXIT SIGNS AND EMERGEN GG CIRCUIT SERVING AREA AHEAD OL. PROVIDE SENSING CONNECTIO EMERGENCY LIGHTING DEVICES. RIES, CONNECT BATTERY LEADS TO SWITCHING AND DIMMING CONTRO DE TAMPER AND FLOW SWITCH FOID OR EACH SPRINKLER VALVE STATION DE EXTERIOR WEATHERPROOF NO LY ABOVE THE FIRE DEPARTMENT CATION OF THE FIRE DEPARTMENT CONICALLY SUPERVISED POST IND ON AND ALL REQUIREMENTS WITH TO ROUGH-IN. DE HVLS FAN, HUNTER 'ECO' SERIE ARIABLE SPEED DIGITAL TOUCH SO LL MOUNTING ACCESSORIES REQUINCES. L VARIABLE SPEED DIGITAL TOUCH VISITANT	INATE THE TIME OF DAY LIGHTING THROUGHOUT THE ICY LIGHTING UNITS TO GENERAL OF ALL SWITCHING AND DIMMING DNS AS REQUIRED FOR OPERATION FOR LUMINAIRES WITH INTEGRAL O ROOM LIGHTING CIRCUIT AHEAD OL. R NEW FIRE SERVICE ENTRANCE ON REQUIRED TO BE SUPERVISED. TIFICATION APPLIANCE MOUNTED CONNECTION POINT. COORDINATE T CONNECTION POINT. COORDINATE T CONNECTION POINT WITH THE O ROUGH-IN. M FIRE ALARM CONTROL PANEL TO ICATOR VALVE. COORDINATE EXACT I FIRE SPRINKLER CONTRACTOR S, 8 FT DIAMETER, 480V, 1 PHASE CREEN CONTROLLER. PROVIDE JIRED FOR A COMPLETE ION AND MAINTAIN ALL REQUIRED I SCREEN CONTROLLER FURNISHED	<section-header><section-header><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></section-header></section-header>
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		EX.M	meleonstruction.com
		EX.P	REVISIONS SCHEDULE         MARK       DATE       DESCRIPTION         1       02/01/2024       Addendum 01         2       02/07/2024       Addendum 02
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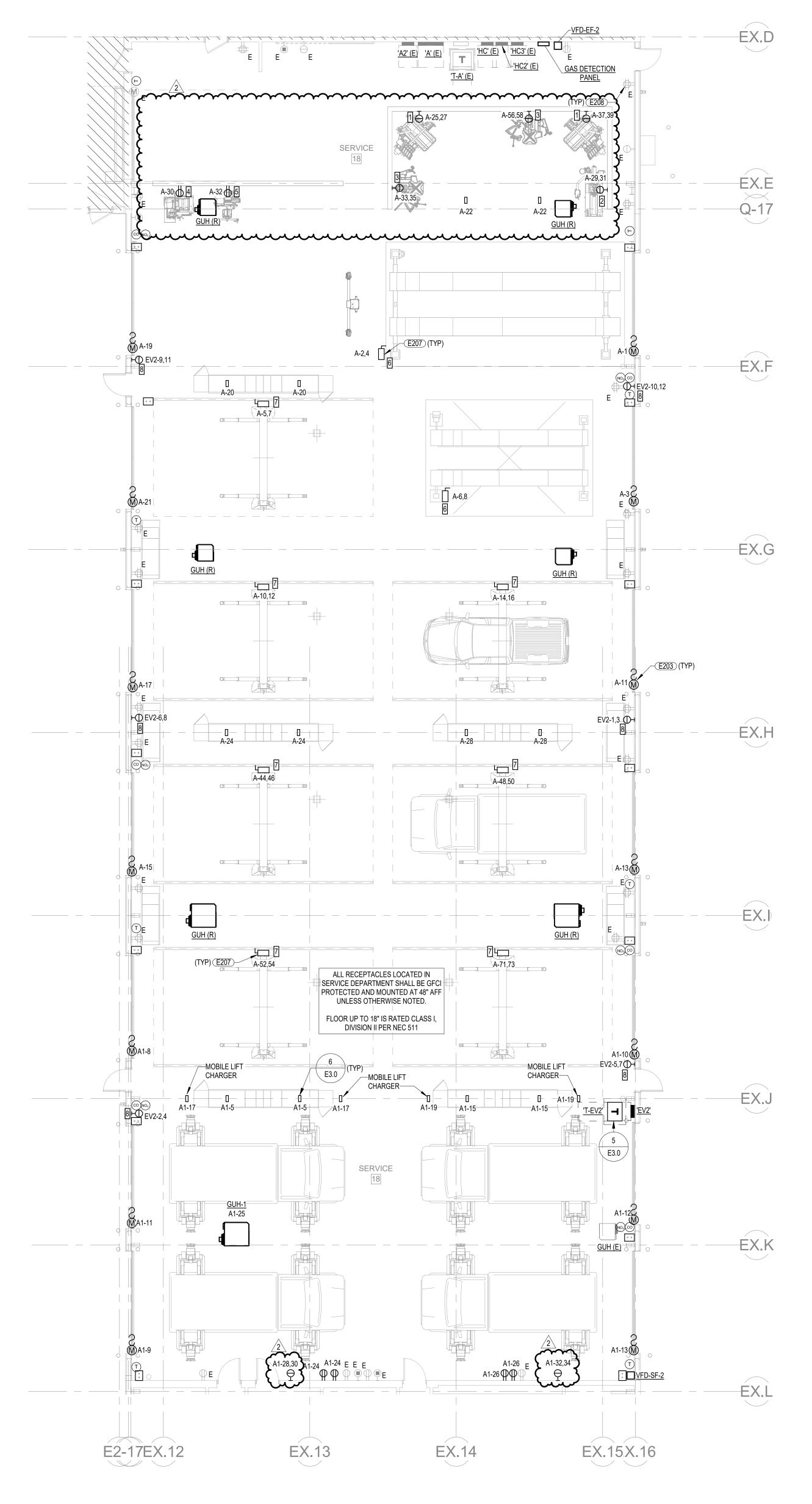




#### E202 PROVIDE FINAL CONNECTION TO INSTANTANEOUS WATER HEATER. THE REQUIRED DISCONNECTING MEANS SHALL CONSIST OF PADLOCK ACCESSORY ON CIRCUIT BREAKER SERVING WATER HEATER BRANCH CIRCUIT TO LOCK CIRCUIT BREAKER IN OPEN (OFF) POSITION. COORDINATE ALL REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN. E203 PROVIDE FINAL CONNECTION TO GARAGE DOOR OPENER. PROVIDE ALL PUSHBUTTONS AND UNDER CONCRETE LOOPS AS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM. E205 PROVIDE FINAL 120V CONNECTION TO GAS FIRED RADIANT HEATER. E210 PROVIDE JUNCTION BOX FOR TOGGLE SWITCH DOOR CONTROLLER (FURNISHED BY OTHERS). TOGGLE SWITCH DEACTIVATES OVERHEAD DOOR/SESNORS FOR DOORS WITHIN THIS ROOM. COORDINATE ROUGH-IN REQUIREMENTS WITH DOOR SUPPLIER. E213 OVERHEAD DOOR CONTROL JUNCTION BOX. PROVIDE 4" SQAURE JUNCTION BOX MOUNTED AT 24" AFF FOR CONTROL CNDUIT CONNECTIONS. ELECTRICAL CONTRACTOR SHALL INSTALL ALL DOOR SENSORS ASSOCIATED WITH OVERHEAD DOORS INCLUDING MOTION DETECTORS AND THROUGH-BEAM PHOTOCELLS. COORDINATE CONNECTION REQUIREMENTS WITH DOOR PROVIDE FINAL CONNECTION TO EXISTING RTU THROUGH NEW VFD. COORDINATE ALL CONNECTIONS WITH EQUIPMENT MANUFACTURER AND MECHANICAL CONTRACTOR.

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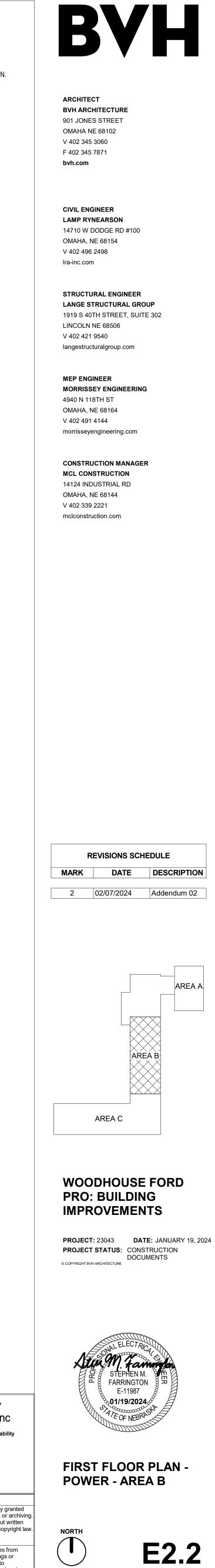


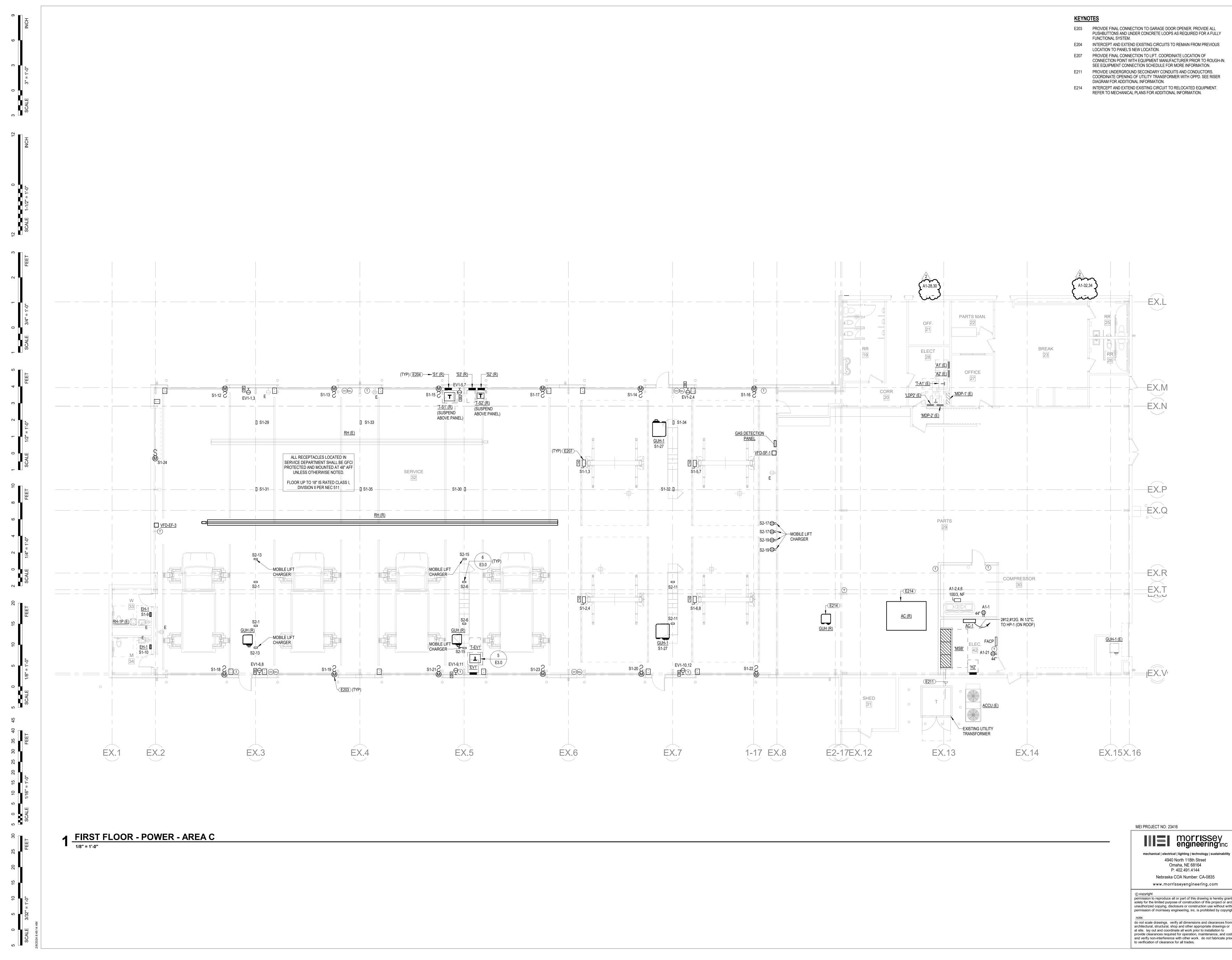


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## **KEYNOTES**

- E203 PROVIDE FINAL CONNECTION TO GARAGE DOOR OPENER. PROVIDE ALL PUSHBUTTONS AND UNDER CONCRETE LOOPS AS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM.
- E207 PROVIDE FINAL CONNECTION TO LIFT. COORDINATE LOCATION OF CONNECTION POINT WITH EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN. SEE EQUIPMENT CONNECTION SCHEDULE FOR MORE INFORMATION.
- E208 REMOVE EXISTING RECEPTACLE AND REPLACE WITH GFCI RECEPTACLE. TYPICAL OF ALL EXISTING RECEPTACLES.





- PUSHBUTTONS AND UNDER CONCRETE LOOPS AS REQUIRED FOR A FULLY E204 INTERCEPT AND EXTEND EXISTING CIRCUITS TO REMAIN FROM PREVIOUS
- E207 PROVIDE FINAL CONNECTION TO LIFT. COORDINATE LOCATION OF CONNECTION POINT WITH EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN.
- SEE EQUIPMENT CONNECTION SCHEDULE FOR MORE INFORMATION. E211 PROVIDE UNDERGROUND SECONDARY CONDUITS AND CONDUCTORS.
- COORDINATE OPENING OF UTILITY TRANSFORMER WITH OPPD. SEE RISER E214 INTERCEPT AND EXTEND EXISTING CIRCUIT TO RELOCATED EQUIPMENT.

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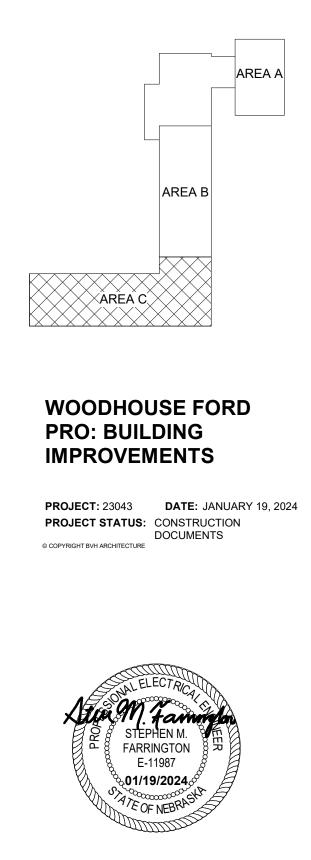
ARCHITECT **BVH ARCHITECTURE** 901 JONES STREET OMAHA NE 68102 V 402 345 3060 F 402 345 7871 bvh.com

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F	<b>REVISIONS SCHEDULE</b>												
MARK	DATE	DESCRIPTION											
1	02/01/2024	Addendum 01											
2	02/07/2024	Addendum 02											
	1	,											











			1				<b>_</b>
	PLAN TAG EH-1 EH-1	VOLTAGE           120 V           120 V	<b>PHASE</b> 1 1	DISCONNECT INTEGRAL INTEGRAL	CIRCUIT S1-10 S1-9	WIRE AND CONDUIT           2#12,#12G-1/2"C           2#12,#12G-1/2"C	REMARKS
	RH RH-1A	120 V 120 V	1	TOGGLE TOGGLE	S1-25 L-24	2#12,#12G-1/2"C 2#12,#12G-1/2"C	NOTE 4 NOTE 4
	AC-1 RH-1B RH-1C	208 V 120 V 120 V	1 1 1	INTEGRAL TOGGLE TOGGLE	A1-40,42 L-24 L-24	2#12,#12G-1/2"C	VIA 'HP-1' NOTE 4 NOTE 4
	RH-1D EF-1 EF-2	120 V 208 V 460 V	1 1 3	TOGGLE 30/2, N.F., NEMA 3R 30/3, N.F., NEMA 3R	L-24 L-29,31 HC2-1,3,5	2#12,#12G-1/2"C 2#12,#12G-1/2"C 3#12,#12G-1/2"C	NOTE 4 NOTE 1 NOTE 1,2
	EF-3 EF-4 EF-5	460 V 460 V 120 V 120 V	3 1 1	30/3, N.F., NEMA 3R WP TOGGLE WP TOGGLE	H2-1,3,5 L-28 A1-27	3#12,#12G-1/2"C	NOTE 1,2 NOTE 1,2 NOTE 1 NOTE 1
	EWH-1 GAS DETECTION PANEI	277 V L 120 V	1 1	TOGGLE INTEGRAL	H-2 L-33	2#12,#12G-1/2"C 2#12,#12G-1/2"C	
	GAS DETECTION PANE GAS DETECTION PANE HP-1		1 1 1	INTEGRAL INTEGRAL 30/2, N.F., NEMA 3R	A-36 S1-26 A1-40,42	2#12,#12G-1/2"C 2#12,#12G-1/2"C 2#12,#12G-1/2"C	
	IEWH-1 SF-1	277 V 460 V	1 3 3	NOTE 3 30/3, N.F., NEMA 3R	H-1 H2-2,4,6	2#8,#10G-1"C 3#12,#12G-1/2"C	NOTE 1,2
	SF-2 VFD-EF-2 VFD-EF-3		3 3 3	30/3, N.F., NEMA 3R			NOTE 1,2
	VFD-RTU-1 VFD-SF-1 VFD-SF-2	480 V	3	INTEGRAL	H-10,12,14 H2-24,6 HC2-7,9,11	3#10,#10G-3/4"C	
	NOTES:		_				
	1. INTERLOCK FAN WITH			MPER SHALL BE AT SAME \ DE FINAL WIRING FROM VF		LANS FOR LOCATION OF VFD	'S.
	3. PROVIDE FINAL CONN	VECTION TO INSTANTA	NEOUS WATER HE	ATER. THE REQUIRED DIS	SCONNECTING MEA	LANS FOR LOCATION OF VED ANS SHALL CONSIST OF PAD ER IN OPEN (OFF) POSITION.	
	COORDINATE ALL REC	QUIREMENTS WITH PL	UMBING CONTRAC	TOR PRIOR TO ROUGH-IN.		ER IN OPEN (OFF) POSITION. RMOSTATS. SEE MECHANICAL	_ PLANS
	4. FROME FINAL CONN FOR LOCATIONS.						
			ELEC	CTRIC HEAT SO	CHEDULE		
	MARK MA	NUFACTURER KING	CATALO	G NUMBER -W-TKIT-1-TP	<b>WATTS</b> 1500 VA	<b>VOLTAGE PHA</b> 120 V 1	SE REMARKS
			-10 בו זיזרי ו			I	I
	NOTES: 1. PROVIDE WITH INTEC	GRAL SERVICE DISCON	INECT AND THERM	IOSTAT. INSTALL PER MAN	UFACTURERS INS	STRUCTIONS.	
			PARTS 30			ELEC 28	
SWITCHBOARD SCHEDUILE			PARTS 30			ELEC 28	
Switchboard schedule         Panel: MSB       Rating: 1200 A         ALC. Rating: 35000         Type: MAIN CKT. BKR. W/GND.       Volts: 480/277			PARTS 30			ELEC 28	
Panel: MSB     Rating: 1200 A     A.I.C. Rating: 35000				METER SPD		100-4 MDF	P-1 (E)
Panel: MSB         Rating: 1200 A         A.I.C. Rating: 35000           Type: MAIN CKT. BKR. W/GND.         Volts: 480/277           BAR         Phases: 3	UTILITY TR.	ANSFORMER (E)		METER SPD 1 2 4 6	3 5 7 PANE	100-4 MDF	EXIST. PANEL
Panel: MSB         Rating: 1200 A         A.I.C. Rating: 35000           Type: MAIN CKT. BKR. W/GND.         Volts: 480/277           BAR         Phases: 3	UTILITY TR.	ANSFORMER (E)			3         ✓           5         7           9         11           13         Ц	100-4 MDF	
Panel: MSB       Rating: 1200 A       Al.C. Rating: 35000         Type: MAIN CKT. BKR. W/GND.       Volts: 480/277         BAR       Phases: 3         ntegral SPD: YES       Wires: 4       S.E. Rated: YES         CKT       NAMEPLATE DESIGNATION       RATING       Comments         1       MDP-1       800 A       3         2       SPARE       400 A       3				2 4 6 8 10 12	3         ✓           5         7           9         11           13         Ц	100-4 MDF	EXIST. PANEL
Panel: MSBRating: 1200 A MAIN CKT. BKR. W/GND.Al.C. Rating: 35000Type: MAIN CKT. BKR. W/GND. BARVolts: 480/277 Phases: 3Al.C. Rating: 35000Integral SPD: YESWires: 4S.E. Rated: YESCKTNAMEPLATE DESIGNATIONRATING 800 AComments1MDP-1800 A32SPARE400 A33SPARE400 A34SPACE400 A3				2 4 6 8 10 12 14	3     5       7     9       11     13       15     15	100-4 EL 800-4	EXIST. PANEL <u>A1</u>
Panel: MSBRating: 1200 A Volts: 480/277A.I.C. Rating: 35000Type: MAIN CKT. BKR. W/GND. BARVolts: 480/277Phases: 3Integral SPD: YESVires: 4S.E. Rated: YESCKTNAMEPLATE DESIGNATIONRATING1MDP-1800 A32SPARE400 A33SPARE400 A3				E 1 E 3.0	3         ✓           5         7           9         11           13         Ц	100-4 EL 800-4 V 3P,4W	EXIST. PANEL <u>A1</u>
Panel: MSB Type: MAIN CKT. BKR. W/GND.Rating: 1200 A Volts: 480/277 Phases: 3A.I.C. Rating: 35000egral SPD: YESWires: 4S.E. Rated: YESKTNAMEPLATE DESIGNATIONRATINGComments1MDP-1800 A32SPARE400 A33SPARE400 A34SPACE400 A35SPACE400 A36SPARE225 A37SPARE225 A3	(E403		1200-4S	E 0007 E 0007 1 E 0007 1 E 3.0 E 3.0	3         5           7         9           11         13           15         15           15         15           11         13           15         15           11         13           15         15           15         15           15         15           15         15           1200A 480/277V           SWITCHBOARE	100-4 EL 800-4 V 3P,4W	EXIST. PANEL <u>A1</u>
Panel: MSBRating: 1200 AAl.C. Rating: 35000Type: MAIN CKT. BKR. W/GND.Volts: 480/277Phases: 33mtegral SPD: YESWires: 4KS.E. Rated: YESMDP-1800 AMDP-1800 ASPARE400 A400 A3SPARE400 A5SPACE400 A36SPARE205 PARE225 A337SPARE205 PARE225 A33205 PARE225 A3LOCKABLE BREAKER9XFMR T-EV2125 A3125 A3125 A3125 A3	(E403		1200-4S	E 1 E 3.0	3         5           7         9           11         13           15         15           15         15           11         13           15         15           11         13           15         15           15         15           15         15           15         15           1200A 480/277V           SWITCHBOARE	100-4 EL 800-4 V 3P,4W	EXIST. PANEL <u>A1</u>
Panel: MSBRating: 1200 A BARAI.C. Rating: 35000Type: MAIN CKT. BKR. W/GND. BARVolts: 480/277 Phases: 3AI.C. Rating: 35000regral SPD: YESWires: 4S.E. Rated: YESKTNAMEPLATE DESIGNATIONRATIVE 800 AComments1MDP-1800 A32SPARE400 A33SPARE400 A34SPACE400 A35SPACE400 A36SPARE225 A37SPARE225 A38XFMR T-EV1125 A39XFMR T-EV2125 A310H2100 A311SPARE100 A3	(E403		1200-4S	E 0007 E 0007 1 E 0007 1 E 3.0 E 3.0	3         5           7         9           11         13           15         15           15         15           11         13           15         15           11         13           15         15           15         15           15         15           1200A 480/277V           SWITCHBOARE	100-4 EL 800-4 V 3P,4W	EXIST. PANEL <u>A1</u>
Panel: MSBRating: 1200 A Volts: 480/277Al.C. Rating: 35000Type:MAIN CKT. BKR. W/GND. BARVolts: 480/277Phases: 3Wires: 4S.E. Rated: YESIntegral SPD: YESWires: 4S.E. Rated: YESCKTNAMEPLATE DESIGNATIONRATI-Comments1MDP-1800 A32SPARE400 A33SPARE400 A34SPACE400 A35SPARE225 A36SPARE225 A37SPARE225 A38XFMR T-EV1125 A3LOCKABLE BREAKER9XFMR T-EV2125 A3LOCKABLE BREAKER10H2100 A3	(E403		1200-4S	E 0007 E 0007 1 E 0007 1 E 3.0 E 3.0	3         5           7         9           11         13           15         15           15         15           11         13           15         15           11         13           15         15           15         15           15         15           1200A 480/277V           SWITCHBOARE	100-4 EL 800-4 V 3P,4W	EXIST. PANEL <u>A1</u>
Panel: MSBRating: 1200 A BARAL.C. Rating: 35000Type: MAIN CKT. BKR. W/GND. BARVolts: 480/277 Phases: 3AL.C. Rating: 35000ntegral SPD: YESWires: 4S.E. Rated: YESCKTNAMEPLATE DESIGNATIONRATINGComments1MDP-1800 A32SPARE400 A33SPARE400 A34SPACE400 A35SPACE400 A36SPARE225 A37SPARE225 A38XFMR T-EV1125 A39XFMR T-EV2125 A310H2100 A311SPARE100 A312SPARE100 A313SPACE100 A314SPACE100 A315SPARE100 A3	(E403		1200-4S	2 4 6 8 10 12 14 12 14 14 12 14 14 12 14 14 12 14 14 12 14 14 12 14 14 12 14 14 12 14 14 12 14 14 12 14 14 14 14 14 14 14 14 14 14 14 14 14	3         5           7         9           11         13           15         15           15         15           11         13           15         15           11         13           15         15           15         15           15         15           1200A 480/277V           SWITCHBOARE	100-4 EL 800-4 V 3P,4W	EXIST. PANEL <u>A1</u>
Panel: MSB       Rating: 1200 A       Al.C. Rating: 35000         Type: MAIN CKT. BKR. W/GND.       Volts: 480/277         Phases: 3       Phases: 3         Integral SPD: YES       Wires: 4       S.E. Rated: YES         CKT       NAMEPLATE DESIGNATION       RATING       Comments         1       MDP-1       800 A       3         2       SPARE       400 A       3         3       SPARE       400 A       3         4       SPACE       400 A       3         5       SPACE       400 A       3         6       SPARE       225 A       3         7       SPARE       225 A       3         8       XFMR T-EV1       125 A       3         10       H2       100 A       3         11       SPARE       100 A       3         12       SPARE       100 A       3         13       SPACE       100 A       3         14       SPACE       100 A       3         15       SPARE       100 A       3         14       SPACE       100 A       3         15       SPARE       100 A       3      <	(E403		1200-4S	2 4 6 8 10 12 14 12 14 14 12 14 14 12 14 14 12 14 14 12 14 14 12 14 14 12 14 14 12 14 14 12 14 14 12 14 14 14 14 14 14 14 14 14 14 14 14 14	3         5           7         9           11         13           15         15           15         15           11         13           15         15           11         13           15         15           15         15           15         15           1200A 480/277V           SWITCHBOARE	100-4 EL 800-4 V 3P,4W	EXIST. PANEL <u>A1</u>
Panel: MSB       Rating: 1200 A       A.I.C. Rating: 35000         Type: MAIN CKT. BKR. W/GND.       Voits: 480/277       Phases: 3         gral SPD: YES       Wires: 4       S.E. Rated: YES         (T       NAMEPLATE DESIGNATION       RATING         MDP-1       800 A       3         :       SPARE       400 A       3         :       SPARE       225 A       3         :       SPARE       225 A       3         :       SPARE       225 A       3         :       SPARE       100 A       3	(E403		1200-4S	ELEC 28	<u>з</u> <u>5</u> <u>7</u> <u>9</u> <u>111</u> <u>13</u> <u>15</u> <u>1200A</u> 480/277V SWITCHBOARE - NEW	100-4 EL 800-4 V 3P,4W	EXIST. PANEL <u>A1</u>
Panel: MSB       Rating: 1200 A       A.I.C. Rating: 35000         Type: MAIN CKT. BKR. W/GND.       Volts: 480/277         BAR       Phases: 3         egral SPD: YES       Wires: 4         S.E. Rated: YES         icagral SPD: YES         Wires: 4         MDP-1         800 A         3         SPARE         400 A         3         SPARE         205 A         3         7         SPARE         21         12         32         33         34         35         35         36         37         38         38         39 <td>(E403</td> <td></td> <td>1200-4S E40</td> <td>2 4 6 8 10 12 14 12 14 14 12 14 14 12 14 14 12 14 14 12 14 14 12 14 14 12 14 14 12 14 14 12 14 14 12 14 14 14 14 14 14 14 14 14 14 14 14 14</td> <td>3     5       7     9       9     11       13     15       15     1200A 480/277V       SWITCHBOARD</td> <td>100-4 EL 800-4 W 3P,4W D 'MSB'</td> <td></td>	(E403		1200-4S E40	2 4 6 8 10 12 14 12 14 14 12 14 14 12 14 14 12 14 14 12 14 14 12 14 14 12 14 14 12 14 14 12 14 14 12 14 14 14 14 14 14 14 14 14 14 14 14 14	3     5       7     9       9     11       13     15       15     1200A 480/277V       SWITCHBOARD	100-4 EL 800-4 W 3P,4W D 'MSB'	
Panel: MSB       Rating: 1200 A       A.I.C. Rating: 35000         Type: MAIN CKT, BKR. W/GND.       Volts: 480/277         BAR       Phases: 3         Integral SPD: YES       Wires: 4         SERVICE       S.E. Rated: YES         CKT       NAMEPLATE DESIGNATION       RATING         Comments       MDP-1       800 A       3         2       SPARE       400 A       3         3       SPARE       400 A       3         4       SPACE       400 A       3         5       SPACE       400 A       3         6       SPARE       225 A       3         7       SPARE       225 A       3         8       XFMR T-EV1       125 A       3       LOCKABLE BREAKER         9       XFMR T-EV2       125 A       3       LOCKABLE BREAKER         10       H2       100 A       3	(E403	ECTRICAL O SCALE	1200-4S E40	ELEC 28	3       5         7       9         9       11         13       15         15       1200A 480/277V         SWITCHBOARD         - NEW         (E)         EXIST         PANE         H2	T. EL PANEL A2	EXIST. PANEL A1 E402
Panel: MSB       Rating: 1200 A       A.I.C. Rating: 35000         Type: MAIN CKT. BKR. W/GND.       Volts: 480/277         BAR       Phases: 3         gral SPD: YES       Wires: 4         S.E. Rated: YES         MDP-1       800 A         SPARE       400 A         SPARE       225 A         SPARE       225 A         SPARE       225 A         SPARE       225 A         SPARE       125 A         SPARE       100 A	(E403	UTILITY TRANSF	1200-4S E40	ELEC 28	3       5         7       9         9       11         13       15         15       11         13       15         -1200A 480/277V SWITCHBOARE         -1200A 480/277V SWITCHBOARE         - NEW	100-4     MDF       EL     800-4       V 3P,4W       D 'MSB'	EXIST. PANEL A1 E402
Panel: MSB       Rating: 1200 A       A.I.C. Rating: 35000         Type: MAIN CKT. BKR. W/GND.       Volts: 480/277         BAR       Phases: 3         Integral SPD: YES       Wires: 4         S.E. Rated: YES         CKT       NAMEPLATE DESIGNATION         RATING       Comments         1       MDP-1         800 A       3         2       SPARE         400 A       3         3       SPARE         400 A       3         5       SPACE         400 A       3         5       SPACE         400 A       3         6       SPARE         225 A       3         7       SPARE         225 A       3         8       XFMR T-EV1         125 A       3         10       H2         10       4         SPACE       100 A         3       LOCKABLE BREAKER         9       XFMR T-EV1         125 A       3         13       SPACE         100 A       3         11       SPACE       100 A         13       <	(E403	ECTRICAL O SCALE	1200-4S E40	ELEC 28	3       5         7       9         9       11         13       15         15       1200A 480/277V         SWITCHBOARD         - NEW         (E)         EXIST         PANE         H2	T. EL PANEL A2	EXIST. PANEL A1 E402
Panel:       MSB       Rating:       1200 A       A.I.C. Rating:       35000         Type:       MAIN CKT. BKR. W/GND.       Volts:       480/277       Phases:       3         egral SPD:       YES       Wires:       4       S.E. Rated:       YES         KT       NAMEPLATE DESIGNATION       RATING       Comments         1       MDP-1       800 A       3         2       SPARE       400 A       3         3       SPARE       400 A       3         4       SPACE       400 A       3         5       SPACE       400 A       3         6       SPARE       225 A       3         7       SPARE       225 A       3         8       XFMR T-EV1       125 A       3       LOCKABLE BREAKER         9       XFMR T-EV2       125 A       3       LOCKABLE BREAKER         9       XFMR T-EV2       125 A       3       LOCKABLE BREAKER         11       SPARE       100 A       3       LOCKABLE BREAKER         9       XFMR T-EV2       125 A       3       LOCKABLE BREAKER         10       H2       100 A       3       LOCKABLE BREAKER	(E403	UTILITY TRANSF	1200-4S E40	ELEC 28	3       5         7       9         9       11         13       15         15       1200A 480/277V         SWITCHBOARD         - NEW         (E)         EXIST         PANE         H2	100-4     MDF       EL     800-4       V 3P,4W       D 'MSB'	EXIST. PANEL A1 E402
Panel: MSB       Rating: 1200 A       A.I.C. Rating: 35000         Type: MAIN CKT. BKR. W/GND.       Volts: 480/277         BAR       Phases: 3         Integral SPD: YES       Wires: 4         S.E. Rated: YES         CKT       NAMEPLATE DESIGNATION         RATING       Comments         1       MDP-1         800 A       3         2       SPARE         400 A       3         3       SPARE         400 A       3         4       SPACE         400 A       3         5       SPACE         400 A       3         6       SPARE         225 A       3         7       SPARE         225 A       3         8       XFMR T-EV1         125 A       3         11       SPARE         12       SPARE         13       SPARE         14       SPARE         100 A       3         11       SPARE         12       SPARE         13       SPACE         100 A       3         11       SPARE <tr< td=""><td>(E403</td><td>UTILITY TRANSF</td><td></td><td>ELEC 28</td><td>3       5         7       9         9       11         13       15         15       1200A 480/277V         SWITCHBOARD         - NEW         (E)         EXISTPANE         EXISTPANE         PANE         EXISTPANE</td><td>100-4     MDF       EL     800-4       V 3P,4W       D 'MSB'</td><td>EXIST. PANEL A1 E402</td></tr<>	(E403	UTILITY TRANSF		ELEC 28	3       5         7       9         9       11         13       15         15       1200A 480/277V         SWITCHBOARD         - NEW         (E)         EXISTPANE         EXISTPANE         PANE         EXISTPANE	100-4     MDF       EL     800-4       V 3P,4W       D 'MSB'	EXIST. PANEL A1 E402
Panel: MSB       Rating: 1200 A       A.I.C. Rating: 35000         Type: MAIN CKT. BKR. W/GND.       Volts: 480/277       Phases: 3         BAR       Phases: 3       3         al SPD: YES       Wires: 4       S.E. Rated: YES         MAMEPLATE DESIGNATION       RATING       Comments         MDP-1       800 A       3         SPARE       400 A       3         SPARE       225 A       3         SPARE       225 A       3         SPARE       225 A       3         SPARE       225 A       3         SPARE       100 A       3         SPACE       1		ECTRICAL D SCALE		ELEC 28	3       5       7         9       11       13         13       15       9         11       13       15         15       1200A 480/277V         SWITCHBOARE         - NEW         (E)       EXISTRATION         A1	1004     MDF       EL     8004       W 3P,4W       D 'MSB'	EXIST. PANEL A1 E402
Panel:       MSB       Rating:       1200 A       A.I.C. Rating:       35000         Type:       MAIN CKT. BKR. W/GND.       Volts:       480/277       Phases:       3         MAMEPLATE DESIGNATION       RATING       Comments         MDP-1       800 A       3         SPARE       400 A       3         SPARE       225 A       3         SPARE       225 A       3         SPARE       225 A       3         SPARE       225 A       3         SPARE       100 A		ECTRICAL D SCALE		ELEC 28	3       5       7         9       11       13         13       15       9         11       13       15         15       1200A 480/277V         SWITCHBOARE         - NEW         (E)       EXISTRATION         A1	1004     MDF       EL     8004       W 3P,4W       D 'MSB'	EXIST. PANEL A1 E402
Panel: MSB       Rating: 1200 A       A.I.C. Rating: 35000         Type: MAIN CKT. BKR. W/GND.       Volts: 480/277         BAR       Phases: 3         itegral SPD: YES       Wires: 4         S.E. Rated: YES         CKT       NAMEPLATE DESIGNATION         RATING       Comments         1       MDP-1         800 A       3         2       SPARE         400 A       3         3       SPARE         400 A       3         5       SPACE         400 A       3         6       SPARE         225 A       3         7       SPARE         24       SPARE         25 A       3         7       SPARE         225 A       3         8       XFMR T-EV1         125 A       3         14       SPARE         15       SPARE         16       SPARE         17       SPARE         18       XFMR T-EV1         19       XFMR T-EV2         10       H2         10       H2         11       SPARE		ELECTRICAL UTILITY TRANSF		ELEC 28	3       5       7         9       11       13         13       15       9         11       13       15         15       1200A 480/277V         SWITCHBOARE         - NEW         (E)       EXISTRATION         A1	1004     MDF       EL     8004       W 3P,4W       D 'MSB'	E402

	LUMINAIRE SCHEDULE												
				LIG	HT SOURCE		ELECT	RICAL					
MARK	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	SPEC.	ССТ	TYPE	LOAD	VOLTS	FINISH	MOUNTING	REMARKS		
F1	6" ROUND DOWNLIGHT	COOPER	RTN-HC615D010-HM612840-61WDH	1500 LM	4000 K	LED	14 W	277 V	CLEAR	RECESSED	NOTE 1		
F2	12' SUSPENDED LINEAR	COOPER	RTN-SQ4-F-OU-075D-840-1D-UNV-STD-W-12	9000 LM	4000 K	LED	52 W	277 V	WHITE	SUSPENDED	NOTE 1		
F4	2x2 TROFFER	COOPER	RTN-22CZ2-32-S-UNV-L840-CD1-U	3200 LM	4000 K	LED	24 W	277 V	WHITE	RECESSED	NOTE 1		
F4F	2x2 TROFFER	COOPER	RTN-22CZ2-32-S-UNV-L840-CD1-U-DF-22W-U	3200 LM	4000 K	LED	24 W	277 V	WHITE	RECESSED	NOTE 1		
F5	8' SERVICE DRIVE STRIP	COOPER	RTN-8TSNLED-LD5-88SL-LW-UNV-L840-CD1	8800 LM	4000 K	LED	61 W	277 V	WHITE	SUSPENDED	NOTE 1		
F6	4' STRIP LIGHT	COOPER	RTN-4SNLED-LD5-44SL-LW-UNV-L840-CD1	4400 LM	4000 K	LED	31 W	277 V	WHITE	SUSPENDED	NOTE 1		
F7	HIGHBAY	COOPER	RTN-VHB-24-N-UNV-L850-CD-U	24,000 LM	5000 K	LED	174 W	277 V	WHITE	SUSPENDED	NOTE 1		
F10	EXTERIOR WALL PACK	COOPER	RTN-GWC-SA2B-750-U-T3-DP	6105 LM	5000 K	LED	44 W	277 V	DARK PLATINUM	WALL	NOTE 1		
X3	SINGLE FACE EXIT SIGN	COOPER	RTN-LPX7SD	FURN. W/ LUMINAIRE	FURN. W/ LUMINAIRE	LED	2 W	277 V	WHITE	NOTE 2	NOTE 1		
X4	SINGLE FACE EXIT SIGN	COOPER	RTN-APXEL71R	FURN. W/ LUMINAIRE	FURN. W/ LUMINAIRE	LED	2 W	277 V	WHITE	NOTE 2	NOTE 1		
X6	LED BATTERY LIGHT	COOPER	RTN-SEL50SD	FURN. W/ LUMINAIRE	FURN. W/ LUMINAIRE	LED	2 W	277 V	WHITE	SURFACE	NOTE 1		
X7	EXTERIOR BATTERY LIGHT	COOPER	RTN-SELDWA29SD	FURN. W/ LUMINAIRE	FURN. W/ LUMINAIRE	LED	4 W	277 V	SILVER	WALL	NOTE 1		

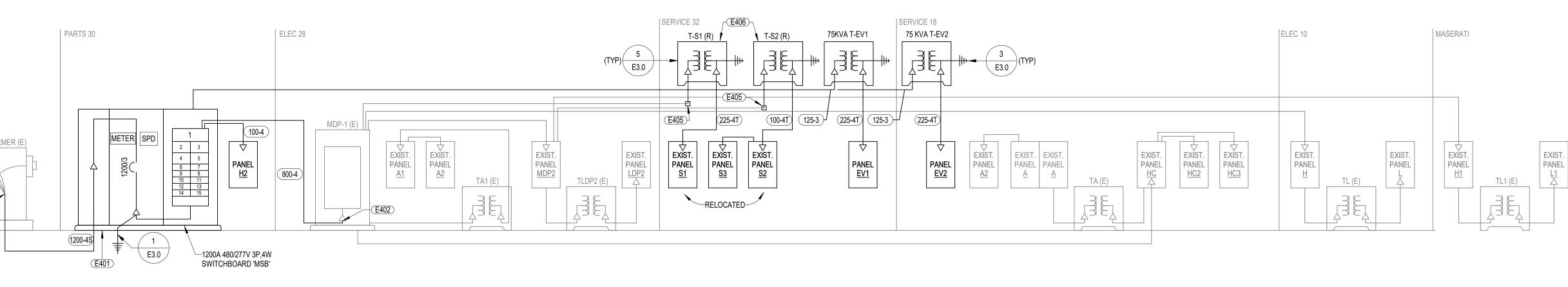
GENERAL REQUIREMENTS:

A. CONTRACTOR SHALL VERIFY CATALOG NUMBERS AND INSTALLATION REQUIREMENTS PRIOR TO ORDERING. NOTIFY ENGINEER OF ANY CONFLICTS WITH PROPOSED INSTALLATION. B. CONTRACTOR SHALL COORDINATE CEILING TRIM OPTIONS FOR LUMINAIRES INSTALLED IN GRID-TYPE SUSPENDED CEILINGS. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.

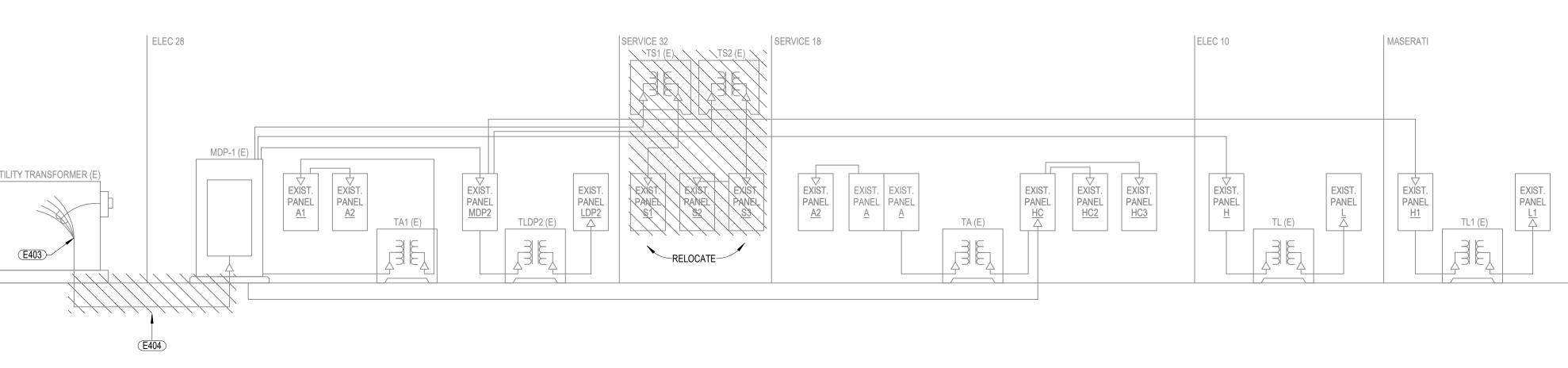
C. UNLESS NOTED OTHERWISE REFER TO PLANS FOR SUSPENSION LENGTHS REQUIRED FOR ALL SUSPENDED LUMINAIRES. LUMINAIRE SCHEDULE NOTES:

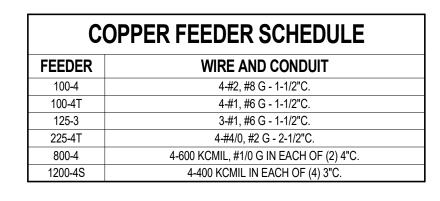
1. PRICING AND SPECIFICATION ASSISTANCE: DAN RODRIGUEZ - CED AUTOMOTIVE dan@rodriguez@cedslc.com / 562.964.5995 2. REFER TO PLANS FOR MOUNTING REQUIREMENTS SUCH AS WALL MOUNT, END MOUNT, CEILING MOUNT AND PROVIDE LUMINAIRES ACCORDINGLY. PROVIDE DIRECTIONAL CHEVRON ARROWS AS INDICATED ON PLANS.

	EQUIPMENT CONNECTION SCHEDULE												
						CON	NECTION	WIRE, GROUND,					
MARK	ITEM	VOLTAGE	PH	HP (KW)	AMPS	DISCONNECT	CORD AND PLUG	CONDUIT	REMARKS				
1	WHEEL BALANCER	208 V	1		10		L6-20R	2#12,#12G-1/2"C					
2	RIM CLAMP TIRE CHANGER	208 V	1		6		L6-20R	2#12,#12G-1/2"C					
3	TIRE CHANGER	208 V	1		20		L6-20R	2#12,#12G-1/2"C					
4	BENCH LATHE	120 V	1		15		5-15R	2#12,#12G-1/2"C					
5	BRAKE LATHE	120 V	1		15		5-15R	2#12,#12G-1/2"C					
6	FOUR POST LIFT	208 V	1	3		60/2, NF		2#6,#10G-1"C					
7	TWO POST LIFT	208 V	1	4		60/2, NF		2#6,#10G-1"C					
8	CAR CHARGER RECEPTACLE	208 V	1		50		14-50R	3#6,#10G-1"C					









## **KEYNOTES**

E401	PROVIDE 3-1/2" THICK CONCRETE HOUSEKEEPING PAD WITH 3/4" CHAMFER EDGE AROUND ALL SIDES EXCEPT THOSE ABUTTING A WALL.
E402	REMOVE MAIN BONDING JUMPER FROM EXISTING MAIN DISTRIBUTION PANEL.
E403	COORDINATE THE OPENING OF THE UTILITY TRANSFORMER FOR THE REMOVAL OF EXISTING SERVICE FEEDERS AND THE CONNECTION OF NEW
	SERVICE FEEDERS WITH OPPD. COORDINATE THE CUTOVER FROM EXISTING

TO NEW SERVICE WITH THE OWNER PRIOR TO COMMENCEMENT OF WORK. REMOVE EXISTING SERVICE FEEDERS. CAP AND ABANDON CONDUIT E404

- UNDERGROUND. INTERCEPT AND EXTEND EXISTING FEEDERS TO NEW TRANSFORMER LOCATION. E405
- E406 PROVIDE LOCKABLE UPSTREAM BREAKERS FOR RELOCATED TRANSFORMERS.





ARCHITECT **BVH ARCHITECTURE** 901 JONES STREET OMAHA NE 68102 V 402 345 3060 F 402 345 7871 bvh.com

CIVIL ENGINEER LAMP RYNEARSON 14710 W DODGE RD #100 OMAHA, NE 68154 V 402 496 2498 Ira-inc.com

STRUCTURAL ENGINEER LANGE STRUCTURAL GROUP 1919 S 40TH STREET, SUITE 302 LINCOLN NE 68506 V 402 421 9540 langestructuralgroup.com

MEP ENGINEER MORRISSEY ENGINEERING 4940 N 118TH ST OMAHA, NE 68164 V 402 491 4144 morrisseyengineering.com

CONSTRUCTION MANAGER MCL CONSTRUCTION 14124 INDUSTRIAL RD OMAHA, NE 68144 V 402 339 2221 mclconstruction.com

R	<b>REVISIONS SCHEDULE</b>										
MARK	MARK DATE DESCRI										
1	02/01/2024	Addendum 01									
2	02/07/2024	Addendum 02									



**PROJECT:** 23043 **DATE:** JANUARY 19, 2024 PROJECT STATUS: CONSTRUCTION © COPYRIGHT BVH ARCHITECTURE

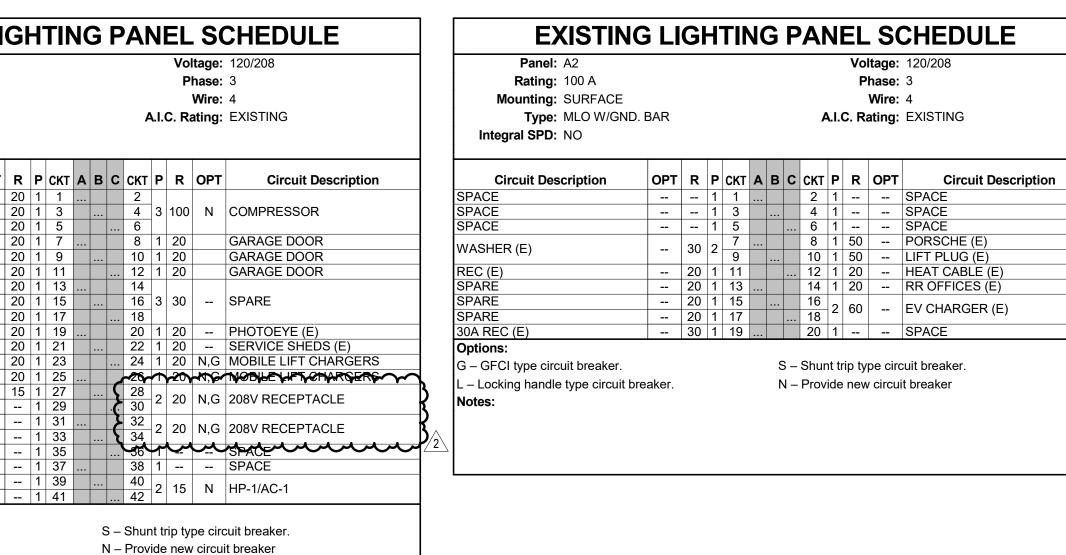








	Panel: A Rating: 225 A	g li	GH	TING	GΡ	AN	V	oltage Phase			Panel: A1 Rating: 200 A Mounting: SURFACE	<u>G L</u>	lG⊦	ITII	١G		Vo		e: 120, e: 3
	Mounting: SURFACE Type: MCB W/FEED ntegral SPD: NO	) THRU	LUGS	S AND GN	ND.BAI	r <b>a</b> .	I.C. I	Wire Rating			Type: MCB W/GNE Integral SPD: NO	). BAR					A.I.C. R		
	Circuit Description	OPT	RF	Р СКТ А	вС	скт і	P R		Circuit Description		Circuit Description	OPT		Р СКТ 1 1		в С СКТ 2		OPT	r
GAR	AGE DOOR AGE DOOR		20 1 20 1	3	···· ·	4	2 50		FOUR POST LIFT		FACP WORKBENCH CORD REELS UPSTAIRS NETWORK (E)	L N,G	20 20			4	3 100		CON GAF
REC	) POST LIFT (E) AGE DOOR	N 	60 2 20 1	7 9		8 10 12	2 50 2 60		FOUR POST LIFT		GARAGE DOOR GARAGE DOOR		20 20	1 9 1 11		<u>10</u> 12	1 20 1 20	)	GAI
GAR GAR	AGE DOOR AGE DOOR		20 1	13 15		14 16	2 60	) N	TWO POST LIFT		GARAGE DOOR WORKBENCH CORD REELS MOBILE LIFT CHARGERS		20 20 20			14 16 18	3 30	)	SP
GAR	AGE DOOR AGE DOOR AGE DOOR			17 19 21			1 20	) N,G	SE SERVICE DOOR (E) WORKBENCH CORD REELS WORKBENCH CORD REELS		MOBILE LIFT CHARGERS REC - ELEC ROOM CONF ROOM REC (E)	N,G	20 20	1 19		20 22	1 20 1 20 1 20	)	SE
REC	- ROOFTOP REC	N.G		23		24 <sup>-</sup> 26 <sup>-</sup>	1 20 1 20	) N,G )	WORKBENCH CORD REELS OFFICE REC (E)		GUH-1 EF-5	 N N	20	1 25 1 27			-1-20	<b>~</b> /1,6	- NO
	IM CLAMP TIRE CHANGER			21	···· ···	30 <sup>-</sup> 32 <sup>-</sup>	1 15 1 15	5 N,G 5 N,G	WORKBENCH CORD REELS 4 - BENCH LATHE 5 - CAR LATHE		SPACE SPACE SPACE			1 29 1 31 1 33		. <b>6</b> 30 32 34	2 20	N,G	G 208
	₩₽₽~₩₩₩₽₽₽	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	284	33 85 37		34 <sup>7</sup> 36 <sup>7</sup> 38 <sup>7</sup>	1 20	)	EXTERIOR LTG (E) GAS DETECTION PANEL SPARE		SPACE SPACE SPACE			1 35 1 37 1 39		36 38	<b>بر</b> 1	<u>مي</u> د 	SP/ SP/
5			20 2 201			40 <sup>-</sup>	1 20 1 20	)	DOOR (E) SPARE		SPACE Options:			1 41		40 42		5 N	HP
	EL A2 (E)		100 3	47		44 46 48 50			TWO POST LIFT		G – GFCI type circuit breaker. L – Locking handle type circuit b	reaker.				S – Shu N – Prov			
	RE JAGE (E) JAGE (E)		20 1 20 1 20 1			00	2 60	) N			Notes:								
SPA	IPUTER (E) RE (E) RE (E)		20 1 20 1 20 1		{	56 58	2 20	)	3 - TIRE CHANGER										
SPA ENT	RE RANCE DOOR (E)		20 1 20 1	61 63		62 <sup>2</sup> 64 <sup>2</sup>	1 20 1 20	)	SPARE (E) SPARE (E)										
SPA A/C ( SPA	(E)		20 1 20 1 20 1	67 69	····	66 <sup>2</sup> 68 <sup>2</sup> 70 <sup>2</sup>	1 20 1 20	)	SPARE (E) TELE SERVER (E) WALL REC (E)		EXISTIN	G LI	GF	ITII	NG		NEI	_ S	C⊦
	) POST LIFT RE (E)	N 	60 2 20 1	/3		72 <sup>-</sup> 74 <sup>-</sup> 76 <sup>-</sup>	1 20	)	SPARE SPARE SPARE		Panel: H Rating: 225 A							oltage Phase	
	RE (E)		30 2	2 77 79		78 <sup>-</sup> 80 <sup>-</sup>	1 20 1 20	)	SPARE (E) SPARE (E)		Mounting: SURFACE Type: MCB W/GNE	. BAR				<i>i</i>	A.I.C. R	Wire Rating	
SPAI Optio	RE (E)		20 2	81 83	••••	82 <sup>-</sup> 84 <sup>-</sup>			SPARE (E) SPARE (E)		Integral SPD: YES						<u></u>		
L – L	GFCI type circuit breaker. ocking handle type circuit br	reaker.					•	•••	cuit breaker. ıit breaker		Circuit Description IEWH-1 INTERIOR LTG	OPT N,L	<b>R</b> 40 20	1 1		B C CKT 2	<b>P R</b> 1 20		r EW
Note	s:										EXTERIOR LTG HVLS FANS	N	20	1 5 - 7		6 8		)	SP
											EXTERIOR LTG (E) PARKING LOT LTG (E)			9 1 11 - 13		10 12 14	3 30	)	RTI
											PARKING LOT LTG (E)			2 15 2 17 2 19		16 18 20	3 70	)	XFN
	LIG	нті	NG	ΡΔΝ	JFI	S	CF	IEL	DULE		SPARE (E)		20	21		22 24	1 20 1 20 1 20	)	WC ME FLC
	Panel: EV2						V	oltage	120/208		SPARE (E) SPARE (E)		20 20	2 27 2 29		28 30	1 1 20		GFI EW
	Rating: 225 A Mounting: SURFACE Type: MCB W/FEF	) THRU	LUGS	S AND GI		r A		Phase Wire Rating			GFPE SPARE (E)		 20	31 1 33 1 35		34 36	1 20 1 20 1 20	)	EW SP/
I	ntegral SPD: NO		2000					lang	UPSTREAM OVERCURREN PROTECTIVE DEVICE		SPARE (E) SPARE (E) SPARE (E)		20 20	1 37 1 39 1 41		38 40	1 20 1 20 1 20	)	SP/ SP/ SP/
	Circuit Description	ОРТ		<b>CKT A</b>	вС						<b>Options:</b> G – GFCI type circuit breaker.		20	<u>1   71</u>		S – Shu			
EVS EVS		G	50 2 50 2	5		2 4 6	2 50 2 50		EVSE		L – Locking handle type circuit b <b>Notes:</b>	reaker.				N – Prov	/ide nev	w circi	uit bre
EVS		G	50 2	11	···· ···	10 12	2 50		EVSE										
SPA SPA SPA	CE		1 1 1	13 15 17	···· ···	14 <sup>7</sup> 16 <sup>7</sup> 18 <sup>7</sup>	1		SPACE SPACE SPACE										
SPA SPA	CE		1 1	~ 1	····	20 <sup>2</sup> 22 <sup>2</sup> 24 <sup>2</sup>	1	·	SPACE SPACE SPACE		<b></b>								
SPA SPA SPA	CE CE		1 1	25		26 <sup>2</sup> 28 <sup>2</sup> 30 <sup>2</sup>	1 1		SPACE SPACE SPACE		Panel: LDP2	G LI	GF	ITII	١G	PA		L S	_
SPA SPA	CE CE		1 1 1	31 33	····	32 <sup>-</sup> 34 <sup>-</sup>	1 1		SPACE SPACE		Rating: 200 A Mounting: SURFACE							Phase Wire	: 3
SPA SPA SPA	CE CE			37 39	····	36 38 40	1 1	·	SPACE SPACE SPACE		Type: MLO W/GND Integral SPD: NO	. BAR				1	A.I.C. R	Rating	I: EXI
SPA Optio			1	41	S – 3	42	_		SPACE		Circuit Description	OPT			AE	в с скт		OPT	r
	ocking handle type circuit br	reaker.			C ·	onant	uib i	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			EX LOAD (E) EX LOAD (E) EX LOAD (E)		20 20 20	1 3 1 5		6	3 100	0	MA
											EX LOAD (E) EX LOAD (E) EX LOAD (E)		20 20 20			8 10 12			SP/
											EX LOAD (E) EX LOAD (E) EX LOAD (E)		20	1 13 1 15 1 17		14 16 18	1 20 2 30		WA DR
											EX LOAD (E) SPARE (E)			1 19		20 22	2 20		EX
	EXISTING	G LI	GH	TINC	GΡ	AN	E	LS	CHEDULE		EX LOAD (E) EX LOAD (E)		20	1 25 1 27		26 28	1 20 1 20	)	EX EX EX
	Panel: L Rating: 150 A					2		oltage Phase	: 120/208 : 3		EX LOAD (E) Options: G – GFCI type circuit breaker.		20	1 29		S – Shu	1 20		
	Mounting: SURFACE Type: MCB W/GND	. BAR				A.	I.C. I	Wire Rating	: 4 : EXISTING		L – Locking handle type circuit b Notes:	reaker.				N – Prov		•••	
	ntegral SPD: YES																		
GAR	Circuit Description AGE DOOR AGE DOOR	OPT	20 1 20 1	3	В С 	2 <sup>7</sup> 4 <sup>7</sup>	1 20 1 20	) G,N	GARAGE DOOR EWC										
BRE	AGE DOOR AK ROOM REC AK ROOM REC		20 1 20 1 20 1	7	 		1 20	)	FRIDGE PRINTER REC - WORK 9		EXISTIN	G LI	IGF	ITII	NG		NEI	_ S	C⊦
COM REC	IM REC (E) - ADVISOR 5,6 - ADVISOR 3,4		20 1 20 1			12 <sup>7</sup> 14 <sup>7</sup> 16 <sup>7</sup>	1 20 1 20	)	REC - ADVISOR 7,8 RR, CORR REC (E) EF (E)		Panel: MDP-2 Rating: 225 A						Vo	oltage Phase	: 480
FRID REC	GE - LOBBY COUNTERTOP	G,N	20 1 20 1	17 19	···· ···	18 <sup>7</sup> 20 <sup>7</sup>	1 20 1 20	)	REC - LOBBY COUNTERTOR REC - CORRIDOR		Mounting: SURFACE Type: MLO W/GND	. BAR					A.I.C. R	Wire	: 4
REC	- LOBBY COUNTERTOP - LOBBY REC JAGE		20 1 20 1 20 1		···· ···	22 <sup>2</sup> 24 <sup>2</sup> 26 <sup>2</sup>	1 20	)	REC - SERVICE MGR RH RTO-1,2 (E)		Integral SPD: NO	-		1			<del></del>		
	IAGE	N		27		28 <sup>-</sup> 30 <sup>-</sup>	1 15 1 20	5	EF-4 REC - ROOFTOP REC		HVLS FANS (N)				A B		<b>PR</b> 1		SP
SPA			20 1	33 35	····	32 34 36	1 20	)	SIGNAGE (E) LCP (E)	- 15	SPACE			2 3 1 1 1 7	3	4 6 8	1 1 1		SP. SP.
SPA	RE (E) RE (E)		20 1 20 1	41	••••	38 <sup>2</sup> 40 <sup>2</sup> 42 <sup>2</sup>	1 20 1 20	)	SPARE SPARE SPARE (E)		POLE LTG AND TIMECLOCK (E	=		9 3 11 13		<u>10</u> 12	3 40		SP
CU-1 SPA	I,BC-1 (E) RE (E) RE (E)			43 45		44 '		)	RELAY PANEL SPARE (E) EVSE		XFMR FOR BODY SHOP PANE (E)	L	40	13 15 3 17			3 20	)	PO
SPA SPA	CE CE		1 1	49 51	•••	50 <sup>-</sup> 52 <sup>-</sup>	1 1		SPACE SPACE		PARTS XFMR (E) PANEL LDP2	?		19 21 3 23		20 22 24		0	PA
SPA SPA SPA	CE		1 1 1	55	····	54 <sup>2</sup> 56 <sup>2</sup> 58 <sup>2</sup>	1		SPACE SPACE SPACE					25 27		26 28			
SPA	CE ons:		1	59		60 <sup>-</sup>	1		SPACE		SPARE Options:		10	3 29 31		30 32	3 90	)	SP
Opti	GFCI type circuit breaker. .ocking handle type circuit br	reaker.					•	•••	cuit breaker. iit breaker		G – GFCI type circuit breaker. L – Locking handle type circuit b	reaker.				S – Shu N – Prov			
G – ( L – L	S'									I	Notes:								
G – (	s:																		
G – ( L – L	s:																		



Panel: A2 Rating: 200 A Mounting: SURFACE			Voltage: 120/208 Phase: 3 Wire: 4									
Type: MCB W/GNE Integral SPD: NO	d. Bar							A	<b>.</b>	C. Ra	ating:	EXISTING
Circuit Description	OPT	R	Ρ	скт	Α	в	с	скт	Р	R	ОРТ	<b>Circuit Description</b>
				1				2	1	20		SPARE
MAIN BREAKER (E)		20	3	3				4	1	20		SPARE
				5				6	1	20		SPARE
SPARE		20	1	7				8	1	15		SPARE
SPARE		20	1	9				10	1	15		SPARE
SPARE		20	1	11				12	1	20		SPARE
SPARE		20	1	13				14	1	20		SPARE
SPARE		20	1	15				16	1	20		SPARE
SPARE		20	1	17				18	1	20		SPARE
SPARE		20	1	19				20	1	20		SPARE
SPARE		20	1	21				22	1	20		SPARE
SPARE		20	1	23				24	1	20		SPARE
SPARE		20	1	25				26	1	20		SPARE
SPARE		20	1	27				28	1	20		SPARE
SPARE		20	1	29				30	1	20		SPARE
<b>Options:</b> G – GFCI type circuit breaker. L – Locking handle type circuit b <b>Notes:</b>	oreaker.										•	uit breaker. t breaker

		-				Vo P	ltage: hase: Wire:	-
СКТ	A	в	с	скт	Р	R	ОРТ	Circuit Description
1				2	1	20		EWH-1
3 5 7				4 6 8	3	60		SPARE
9 11 13				10 12 14	3	30		RTU (E) VIA VFD-RTU-1 (N)
15 17 19				16 18 20	3	70		XFMR TL (E)
21				22	1	20		WOMENS RR HWH (E)
23				24	1	20		MENS RR HWH (E)
25				26	1	20		FLOOR HEAT (E)
27				28	1			GFPE
29				30	1	20		EWH (E)
31				32	1	20		EWH (E)
33				34	1	20		SPARE (E)
35				36	1	20		SPARE (E)
37				38	1	20		SPARE (E)
39				40	1	20		SPARE (E)
41				42	1	20		SPARE (E)
							•	cuit breaker. t breaker

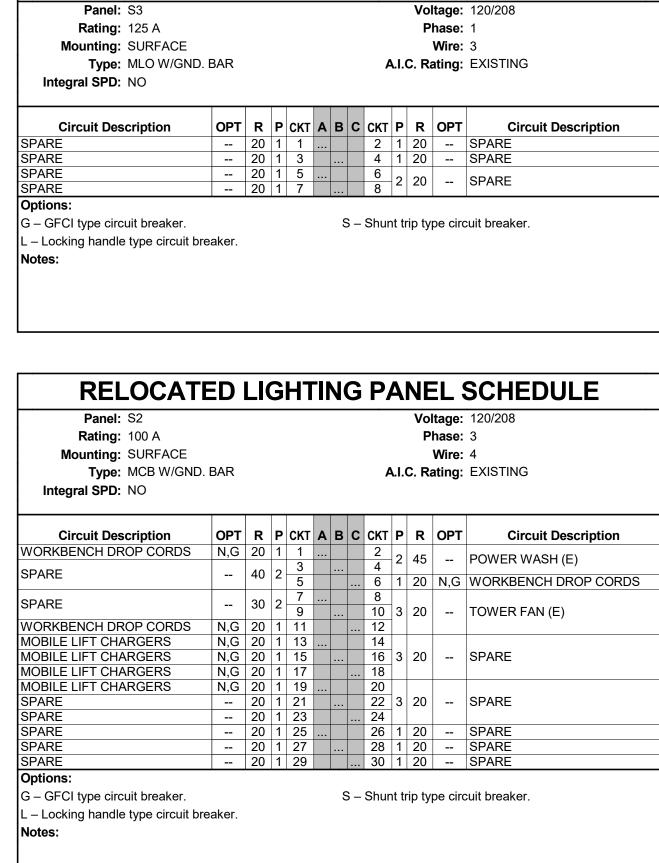
EXISTING	GLI	GI	-1'	TIP	10	G	Ρ	<b>A</b>	VI	EL	. S(	CHEDULE	
Panel: HC		Voltage: 480/277											
Rating: 225 A	Phase: 3												
Mounting: SURFACE											Wire:	4	
Type: MLO W/GND.	A.I.C. Rating: EXISTING												
Integral SPD: NO							-		0.10	ating.			
Circuit Description	OPT	R	Ρ	скт	Α	в	с	скт	Ρ	R	ΟΡΤ	Circuit Description	
SERVICE BAY LTG		20	1	1				2					
SERVICE BAY LTG		20	1	3				4	3	20		EXHAUST FAN (E)	
				5				6					
XFMR TA (E)		20	3	7				8	1	20		SERVICE BAY LTG	
				9				10	1	20		EXTERIOR LTG	
				11				12	1	20		SPARE	
LTG CONTACTOR (E)		20	3	13				14	1	20		SPARE	
				15				16	1	20		SPARE	
SPARE		20	1	17				18	1	20		SPARE	
SPARE		20	1					20	1	20		UPSTAIRS REC (E)	
SPARE		20	1	21				22	1	30		SPARE	
RTU (E)		20	3	23 25 27				24 26 28	3	60		RTU (E)	
Options:													
G – GFCI type circuit breaker.						S	S –	Shur	nt tr	rip ty	pe circ	cuit breaker.	
L – Locking handle type circuit br	eaker.					١	- ۱	Prov	ide	new	/ circui	t breaker	
Notes:													

Panel: HC2 Rating: 100 A Mounting: SURFACE Type: MLO W/GND. Integral SPD: NO	Voltage: 480/277 Phase: 3 Wire: 4 A.I.C. Rating: EXISTING											
Circuit Description	OPT	R	Р	СКТ	Α	в	с	скт	Р	R	ОРТ	Circuit Description
			-	1		-	-	2	1			SPACE
EF-2	N	15	3					4				
				5				6	3	20		SPARE (E)
SF-2	N	15	3	7		-		8 10				
51-2		15	5	11				12	3	20		PARKING LOT LTG (E)
				13				14	Ŭ	20		
SPARE (E)		20	3	15				16	1			SPACE
				17				18	1			SPACE
Options:							_	<b>.</b>				
G – GFCI type circuit breaker.											-	cuit breaker.
L – Locking handle type circuit br	eaker.					Γ	4 –	Prov	Ide	new	circui	t breaker
Notes:												

		g: 800 A s: 480/2		A.I.C. Rating: EXISTING	
ntegra	I SPD: NO Wires			S.E. Rated: YES	
скт	NAMEPLATE DESIGNATION	RATIN	NG	Comments	
1	SERVICE DRIVE XFMR (E)	100 A	3		
2	480V PANEL (E) MDP2?	200 A	3		
3	MAIN BACK BODY SHOP (E)	100 A	3		
4	SPARE	225 A	3		
5	480V PANEL FRONT SERVICE AREA (E)	225 A	3		
6	HEATING AND COOLING (E)	60 A	3		
7	CAR EXHAUST FAN (E)	20 A	3		
8	SPARE	20 A	3		
9	SPARE	20 A	1		
10	SPARE	20 A	1		
11	SPARE	20 A	1		
12	SPARE	20 A	1		
13	POLE LTG (E)	20 A	3		
14	SPARE	20 A	1		
15	POLE LTG (E)	40 A	3		
16	SPARE	20 A	1		
17	SPARE	20 A	1		
18	STREET LTG PANEL (E)	125 A	3		
19					
20					

IRCUIT BREAKER WITH THE FOLLOWING INFORMATION: a. SERVICE SIZE - PER NEC. b. ALL PROGRAMMED BREAKER SETTINGS.

c. "CAUTION - ANY CHANGES TO THESE SETTINGS COULD BE A POTENTIAL RISK TO LIFE AND PROPERTY" 3. PROVIDE AN ARC ENERGY REDUCING MAINTENANCE SWITCH FOR EACH CIRCUIT BREAKER FRAME SIZE 1200 AMPS AND LARGER.



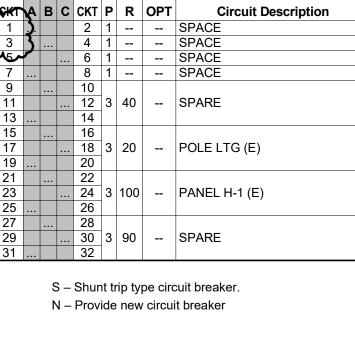
SPARE
WORKBENCH DROP
MOBILE LIFT CHAR
SPARE
Options:
G – GFCI type circuit
L – Locking handle ty

RELC

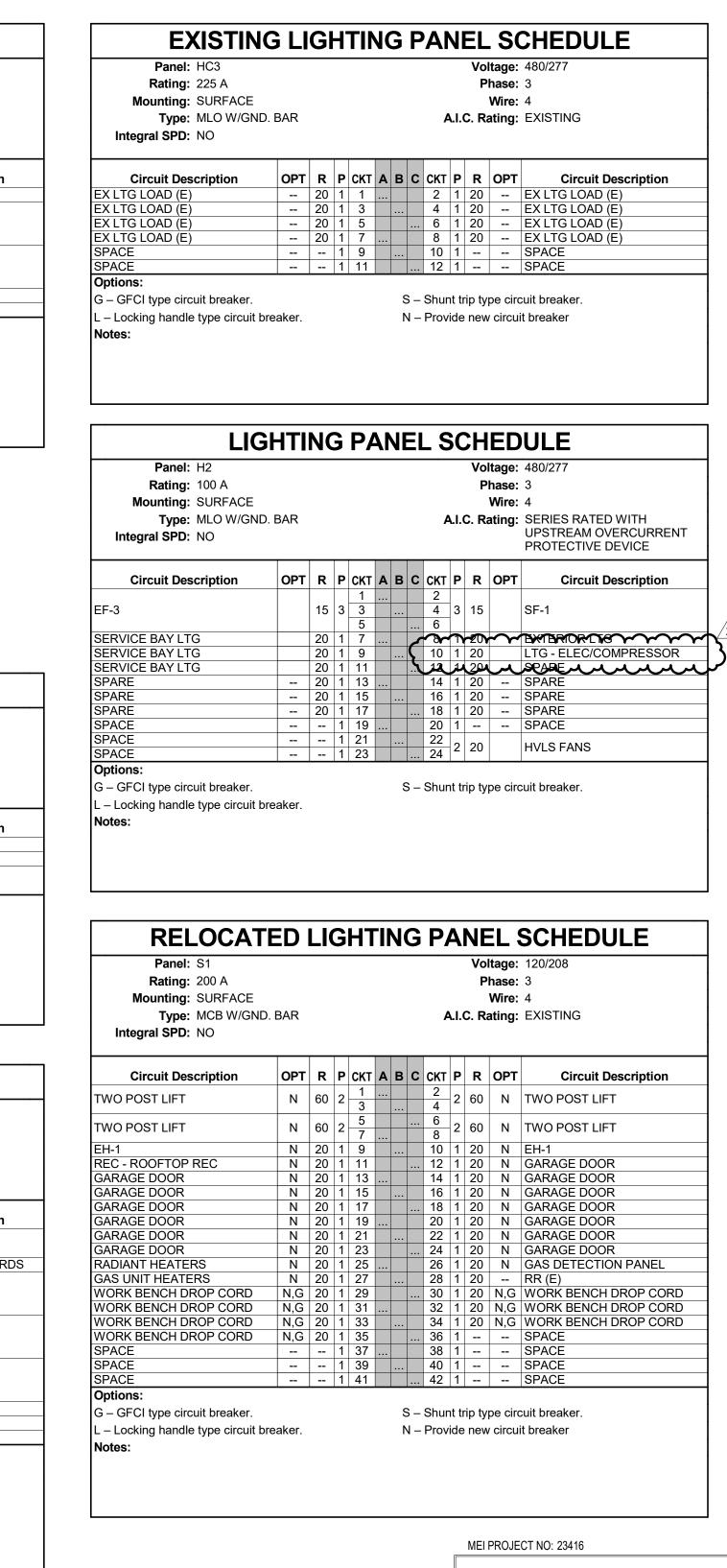
## A.I.C. Rating: EXISTING A B C CKT P R OPT Circuit Description 4 3 100 -- MAIN BREAKER (E)

9			10									
11			12	1	20		EX LOAD (E)					
13			14	1	20		WASHER (E)					
15			16	2	30		DRYER (E)					
17			18	2	30		DRIER (E)					
19			20	2	20		EX LOAD (E)					
21			22	2	20							
23			24	1	20		EX LOAD (E)					
25			26	1	20		EX LOAD (E)					
27			28	1	20		EX LOAD (E)					
29			30	1	20	-	EX LOAD (E)					
	S	3 –	Shur	nt tr	rip tvi	pe circ	cuit breaker.					

**NG PANEL SCHEDULE** Voltage: 480/277 **Phase:** 3 **Wire:** 4 A.I.C. Rating: EXISTING



Panel: EV1								-		Vo	tano.	120/208
											-	
Rating: 225 A										-	hase:	•
Mounting: SURFACE											Wire:	
Type: MCB W/FEE Integral SPD: NO	ED THRU	LUC	SS	AND	G	ND.	.BA	RA	<b>A.I</b> .0	C. Ra	ating:	SERIES RATED WITH UPSTREAM OVERCURRENT PROTECTIVE DEVICE
<b>Circuit Description</b>	OPT	R	Ρ	скт	A	в	с	скт	Ρ	R	ΟΡΤ	<b>Circuit Description</b>
VSE	G	50	2	1				2	2	50	G	EVSE
VSE	G	50	2	5 7				6 8	2	50	G	EVSE
VSE	G	50	2	9 11				10 12	2	50	G	EVSE
PACE			1	13				14	1			SPACE
PACE			1	15				16	1			SPACE
PACE			1	17				18	1			SPACE
PACE			1	19				20	1			SPACE
PACE			1	21				22	1			SPACE
PACE			1	23				24	1			SPACE
PACE			1	25				26	1			SPACE
PACE			1	27				28	1			SPACE
PACE			1	29				30	1			SPACE
PACE			1	31				32	1			SPACE
PACE			1	33				34	1			SPACE
PACE			1	35				36	1			SPACE
PACE			1	37				38	1			SPACE
PACE			1	39				40	1			SPACE
PACE ptions:			1	41				42	1			SPACE





												SCHEDULE
3										Vo	Itage:	120/208
25 A	Phase: 1											
URFACE								Wire:	3			
LO W/GND.	A.I.C. Rating: EXISTING											
0												
iption	ОРТ	R	Р	скт	Δ	в	c	скт	Р	R	ОРТ	Circuit Description
iption		20	1	1			-	2	1	20		SPARE
		20	1	3				4	1	20		SPARE
		20	1	5				6	•			
		20	1	7				8	2	20		SPARE
	1											
	breaker. S – Shunt trip type circuit breaker.											



ARCHITECT **BVH ARCHITECTURE** 901 JONES STREET OMAHA NE 68102 V 402 345 3060 F 402 345 7871 bvh.com

CIVIL ENGINEER LAMP RYNEARSON 14710 W DODGE RD #100 OMAHA, NE 68154 V 402 496 2498 Ira-inc.com

STRUCTURAL ENGINEER LANGE STRUCTURAL GROUP 1919 S 40TH STREET, SUITE 302 LINCOLN NE 68506 V 402 421 9540 langestructuralgroup.com

MEP ENGINEER MORRISSEY ENGINEERING 4940 N 118TH ST OMAHA, NE 68164 V 402 491 4144 morrisseyengineering.com

CONSTRUCTION MANAGER MCL CONSTRUCTION 14124 INDUSTRIAL RD OMAHA, NE 68144 V 402 339 2221 mclconstruction.com

F	REVISIONS SCHEDULE												
MARK	DATE	DESCRIPTION											
	-												
1	02/01/2024	Addendum 01											
2	02/07/2024	Addendum 02											



**PROJECT:** 23043 **DATE:** JANUARY 19, 2024 PROJECT STATUS: CONSTRUCTION © COPYRIGHT BVH ARCHITECTURE





