

- LEGEND:**
- C1 - COLUMN, SEE SCHEDULE SHEET S3.01
 - F1 - CONCRETE FOOTING - SEE SCHEDULE SHEET S3.01
 - MP1 - CMU PIER WITH (2) #6 FULL HEIGHT
 - P1 - CONCRETE PIER - SEE SCHEDULE SHEET S3.01
 - SF - STEP FOOTING - SEE DETAIL 2/S5.01
- NOTES:**
1. SEE SHEET S3.01 FOR GENERAL NOTES
 2. PROVIDE PIPE SLEEVE AT PIPE PENETRATIONS THROUGH FOUNDATION WALL. COORDINATE SIZE AND LOCATION WITH MECHANICAL TRADES, TYP. SEE DETAIL 1/S5.01 FOR PIPE SLEEVES THROUGH CONCRETE FOUNDATION WALLS.

FOUNDATION PLAN
 1/8" = 1'-0" BOTTOM OF FOOTING ELEVATION = 95'-8" (UNO)

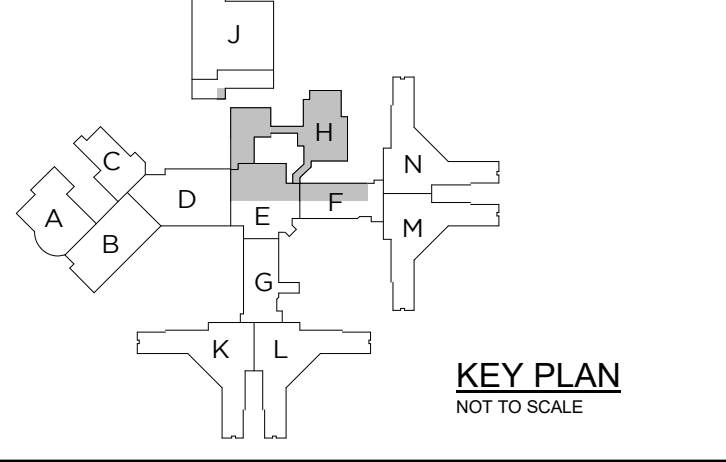
A3	ADDENDUM NO. 3	09/28/23
NO.	REVISION	DATE

STATE OF MICHIGAN
 DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET
 FACILITIES AND BUSINESS SERVICES ADMINISTRATION
 DESIGN AND CONSTRUCTION DIVISION
 ADAM LACH, RA, DIRECTOR

FILE NO.
 491/20167.SDW

FUNDING CODE
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 (800) 874-4300 | (313) 874-9700 WWW.MACMILLANASSOCIATES.COM

PROJECT TITLE
 491/20167.SDW - PHASE 500:
**CENTER FOR FORENSIC
 PSYCHIATRY - CREATE
 KITCHEN**
 SALINE, MICHIGAN

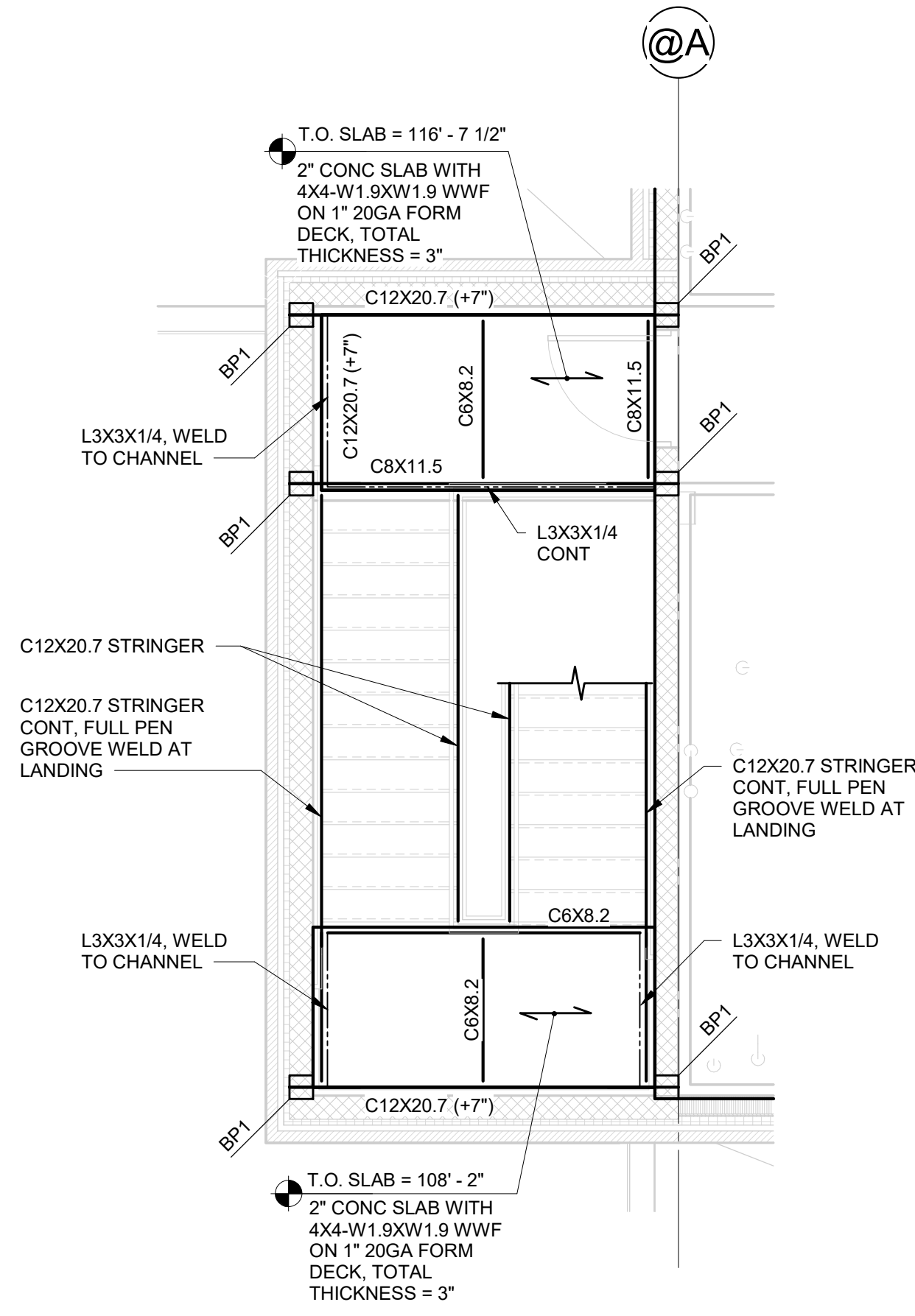
SHEET TITLE
FOUNDATION PLAN

PROJECT NUMBER
2021094

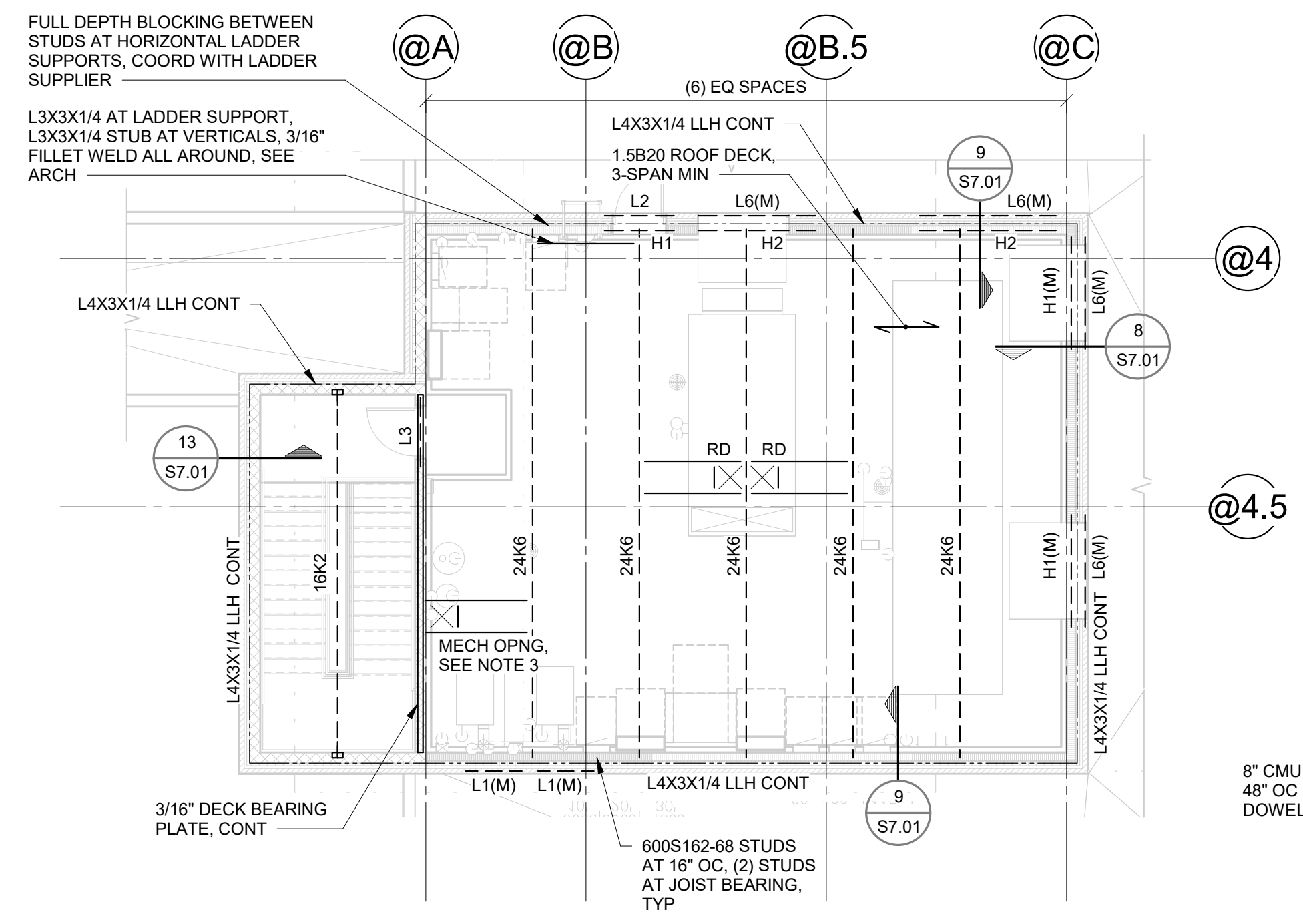
SHEET NUMBER
S2.01

PROJECT DATE
 SEPTEMBER 6, 2023

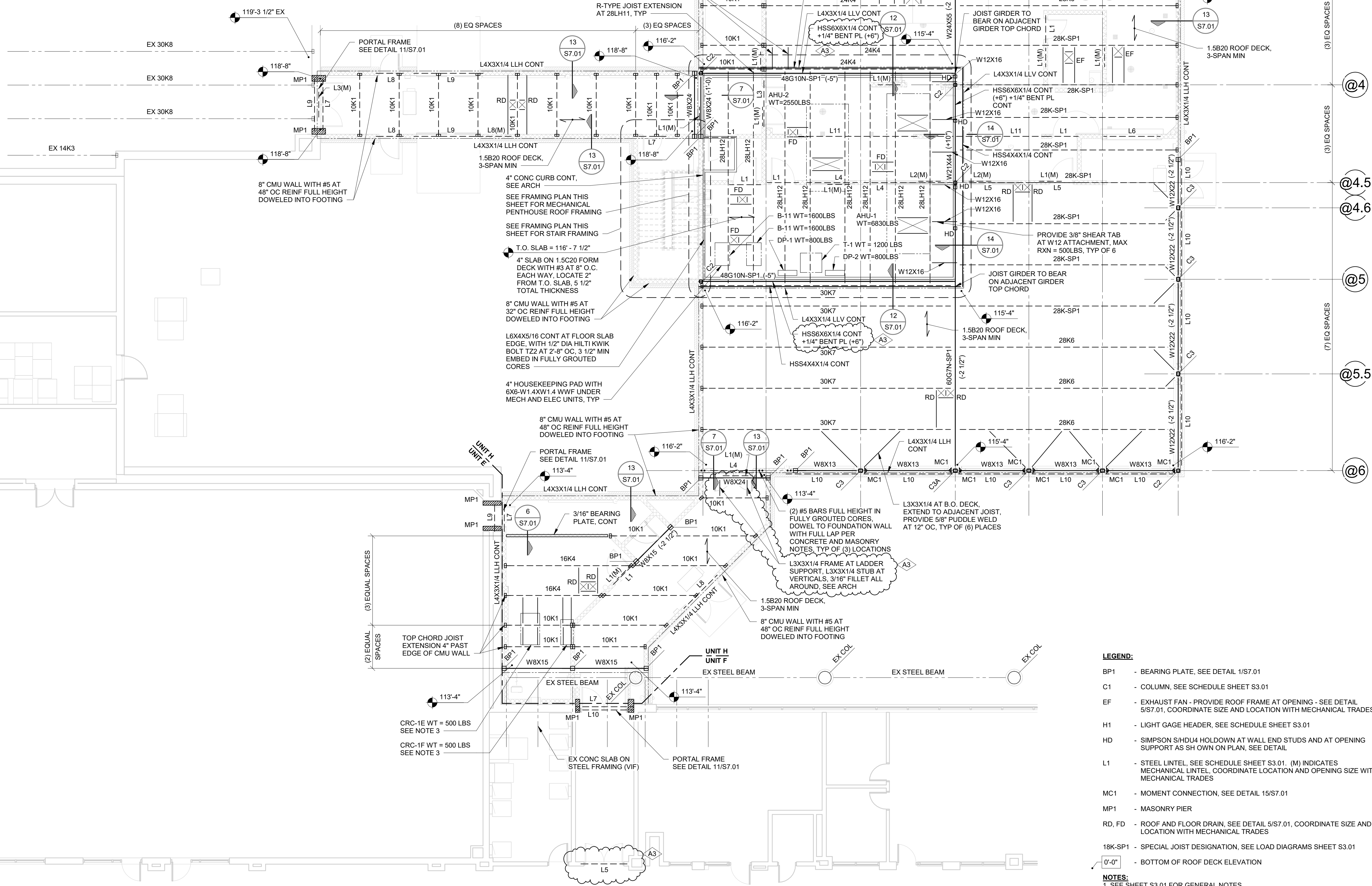
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STAIR FRAMING PLAN
1/4" = 1'-0" T.O. STEEL = B.O. DECK UNO (+/-0'-0")



MECH PENTHOUSE ROOF FRAMING PLAN
1/8" = 1'-0" B.O. DECK = 128'-8" T.O. STEEL = B.O. DECK UNO (+/-0'-0")



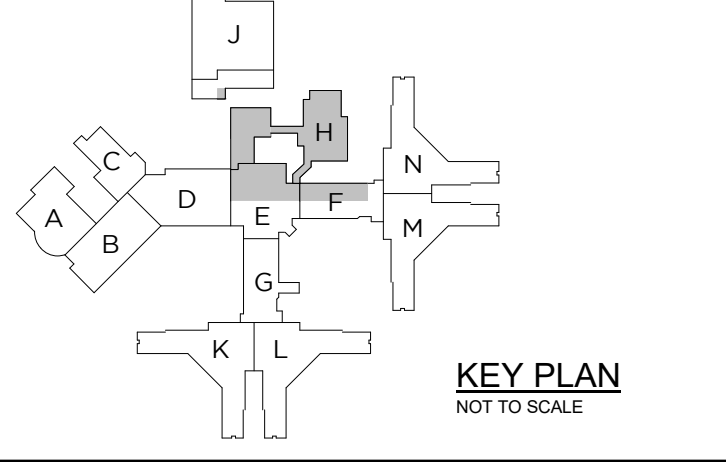
ROOF / PENTHOUSE FLOOR FRAMING PLAN
1/8" = 1'-0" T.O. STEEL = B.O. DECK UNO (+/-0'-0")

- LEGEND:**
- BP1 - BEARING PLATE, SEE DETAIL 11/S7.01
 - C1 - COLUMN, SEE SCHEDULE SHEET S3.01
 - EF - EXHAUST FAN - PROVIDE ROOF FRAME AT OPENING - SEE DETAIL 5/S7.01, COORDINATE SIZE AND LOCATION WITH MECHANICAL TRADES.
 - H1 - LIGHT GAGE HEADER, SEE SCHEDULE SHEET S3.01
 - HD - SIMPSON SHDLM HOLDDOWN AT WALL END STUDS AND AT OPENING SUPPORT AS SHOWN ON PLAN, SEE DETAIL
 - L1 - STEEL LINTEL - SEE SCHEDULE SHEET S3.01, (M) INDICATES MECHANICAL LINTEL, COORDINATE LOCATION AND OPENING SIZE WITH MECHANICAL TRADES
 - MC1 - MOMENT CONNECTION, SEE DETAIL 15/S7.01
 - MP1 - MASONRY PIER
 - RD, FD - ROOF AND FLOOR DRAIN, SEE DETAIL 5/S7.01, COORDINATE SIZE AND LOCATION WITH MECHANICAL TRADES
 - 18K-SP1 - SPECIAL JOIST DESIGNATION, SEE LOAD DIAGRAMS SHEET S3.01
 - 0'-0" - BOTTOM OF ROOF DECK ELEVATION
- NOTES:**
1. SEE SHEET S3.01 FOR GENERAL NOTES
 2. ALL 8" CMU WALLS REINFORCED WITH #4 AT 48" OC UNO.
 3. PROVIDE FRAMING UNDER MECHANICAL UNIT CURBS PER DETAIL 5/S7.01, COORDINATE SIZE AND LOCATION WITH MECHANICAL, TYP.
 4. JOIST GIRDERS TO BEAR DIRECTLY ON COLUMN UNO.

A3	ADDENDUM NO. 3	09/28/23
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DESIGN AND CONSTRUCTION DIVISION
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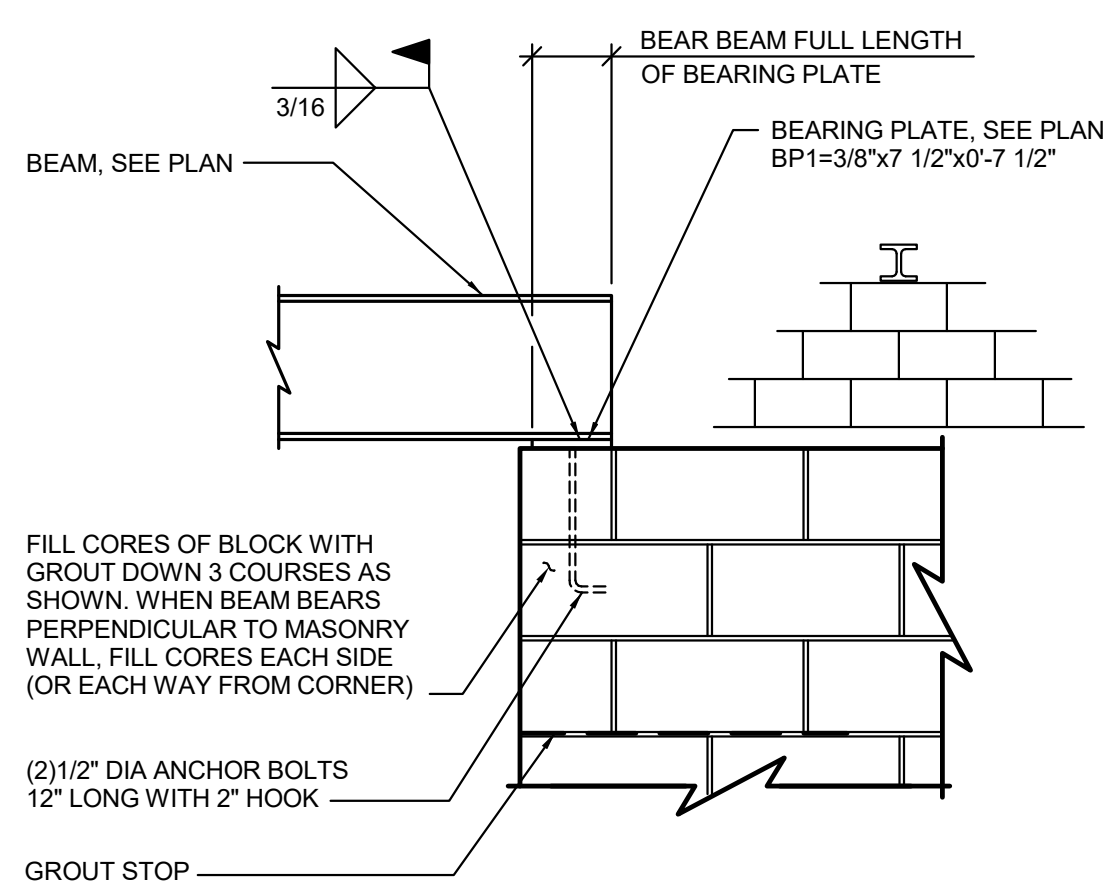
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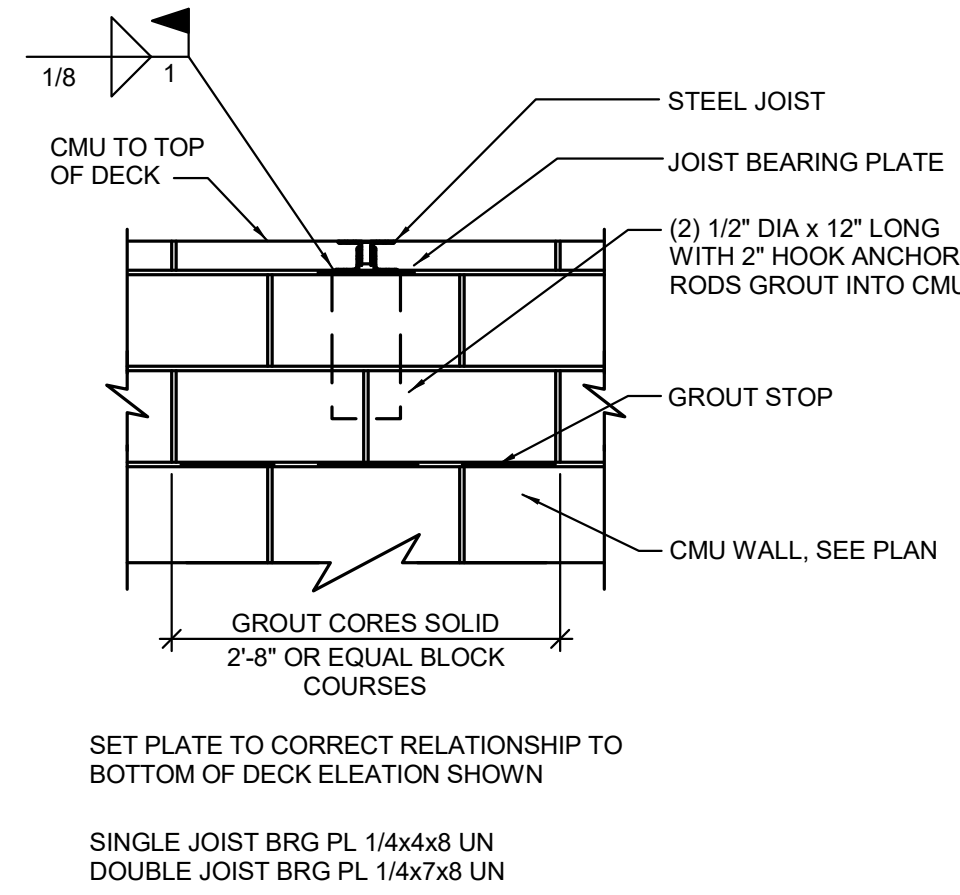
PROJECT TITLE
491/20167.SDW - PHASE 500:
CENTER FOR FORENSIC PSYCHIATRY - CREATE KITCHEN
SALINE, MICHIGAN

SHEET TITLE
ROOF FRAMING PLAN

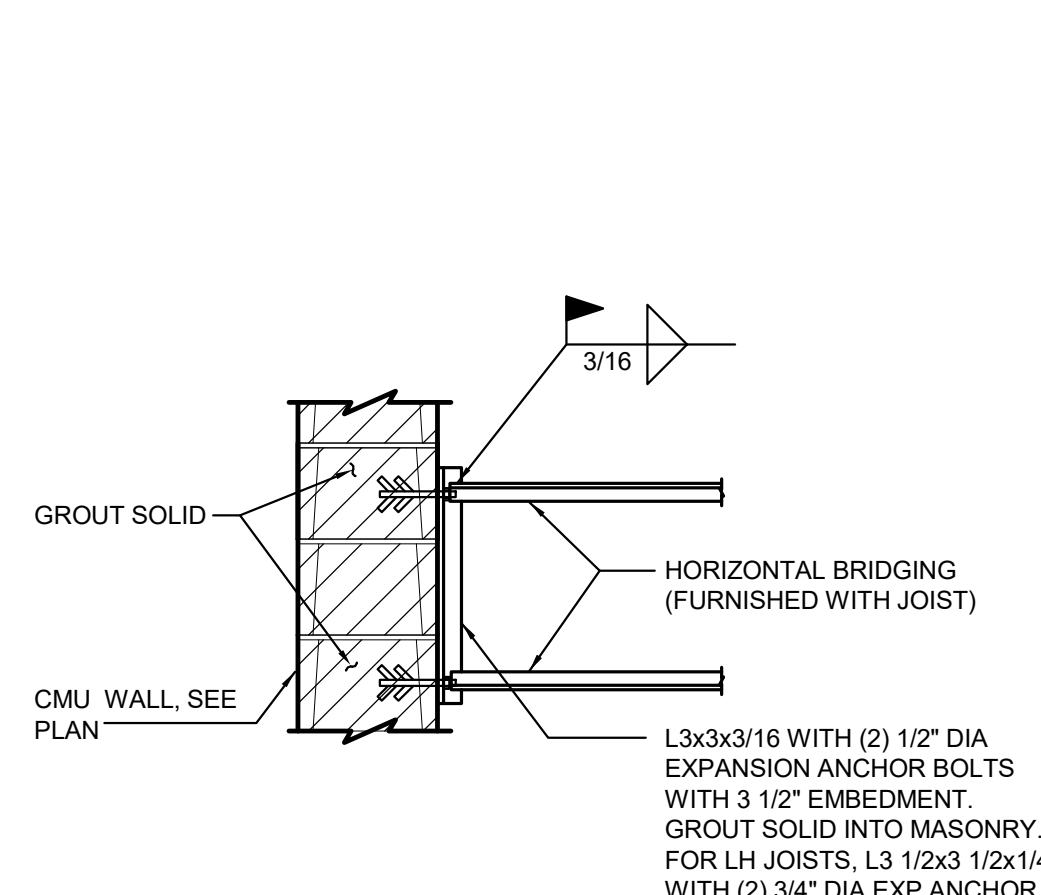
PROJECT NUMBER 2021094	SHEET NUMBER
PROJECT DATE SEPTEMBER 6, 2023	S2.02
CHECKED BY JAG	



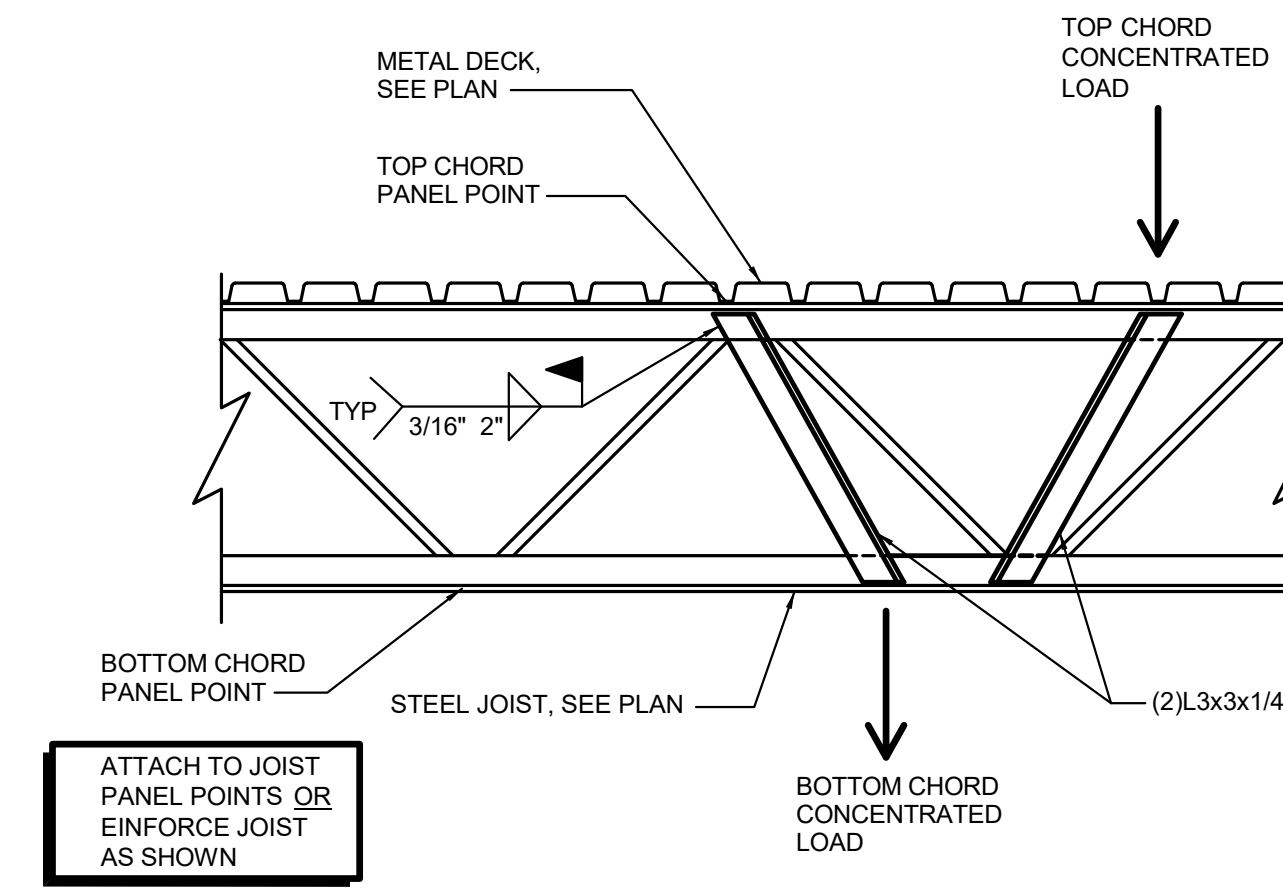
1 BEAM BEARING
S7.01 3/4" = 1'-0"



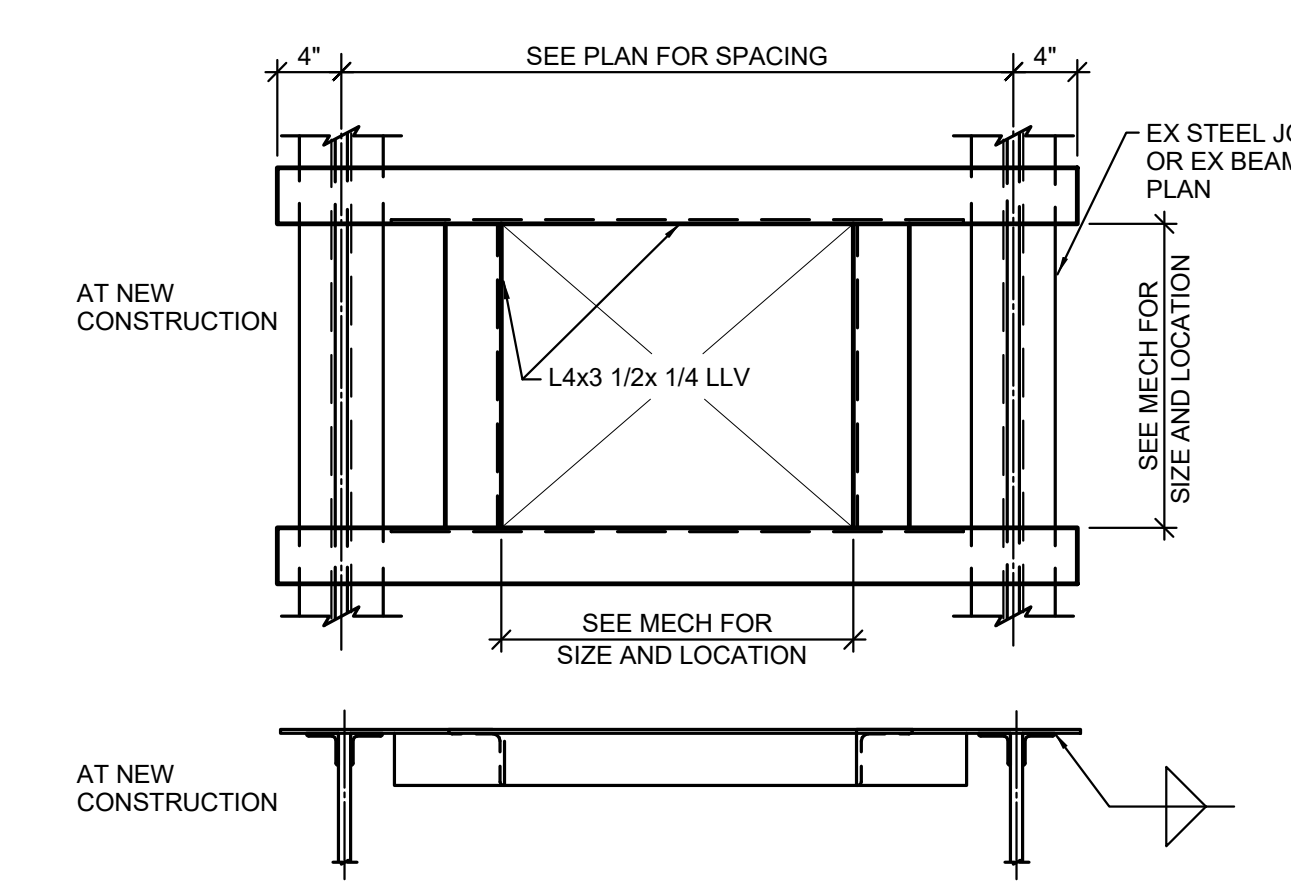
2 "K" JOIST END BEARING
S7.01 3/4" = 1'-0"



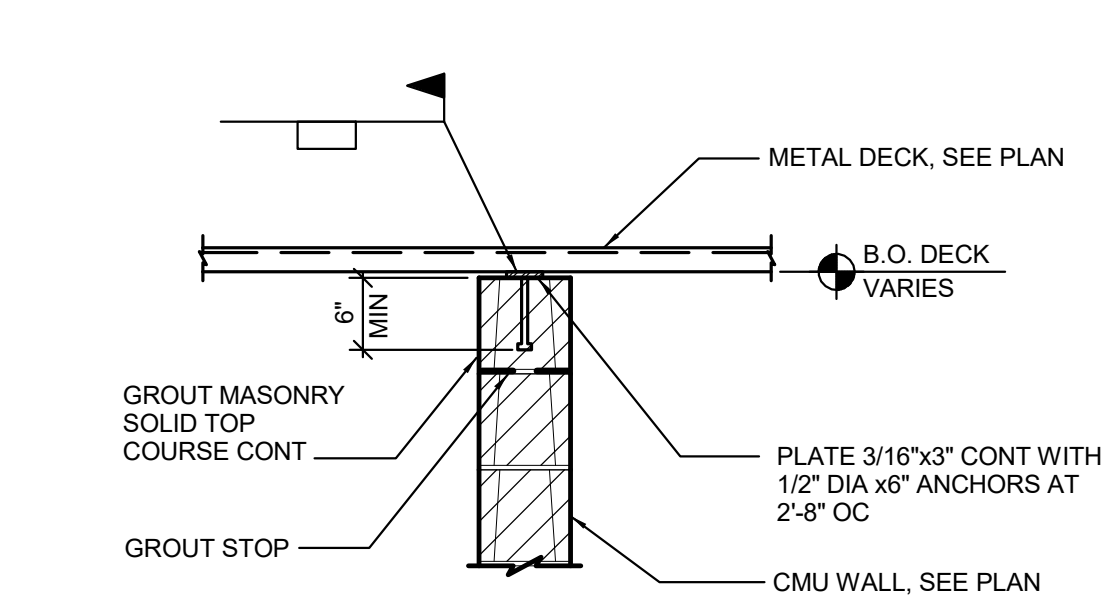
3 "K" AND "LH" BRIDGING ANCHOR
S7.01 3/4" = 1'-0"



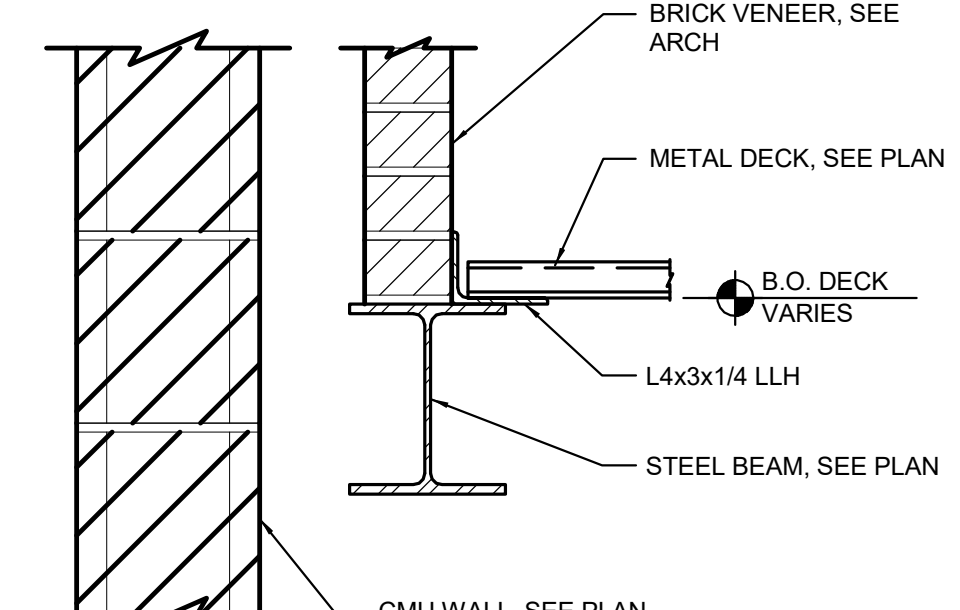
4 STEEL JOIST REINFORCEMENT AT NON-PANEL POINT CONCENTRATED LOADS
S7.01 3/4" = 1'-0"



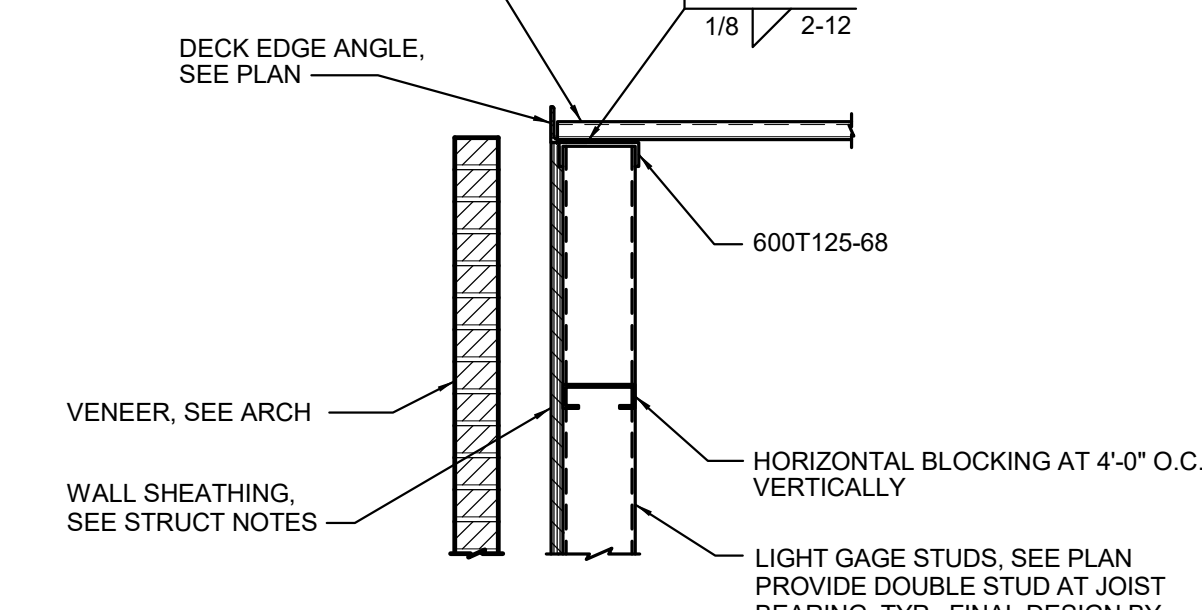
5 ROOF OPENING FRAME
S7.01 1" = 1'-0"



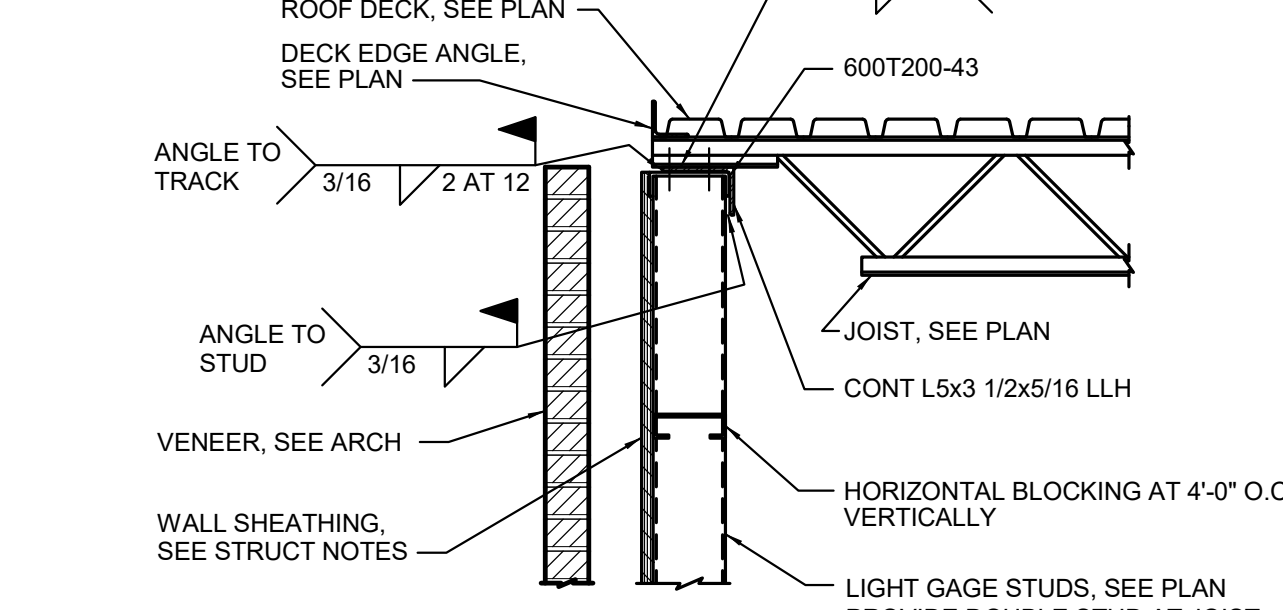
6 DECK BEARING
S7.01 3/4" = 1'-0"



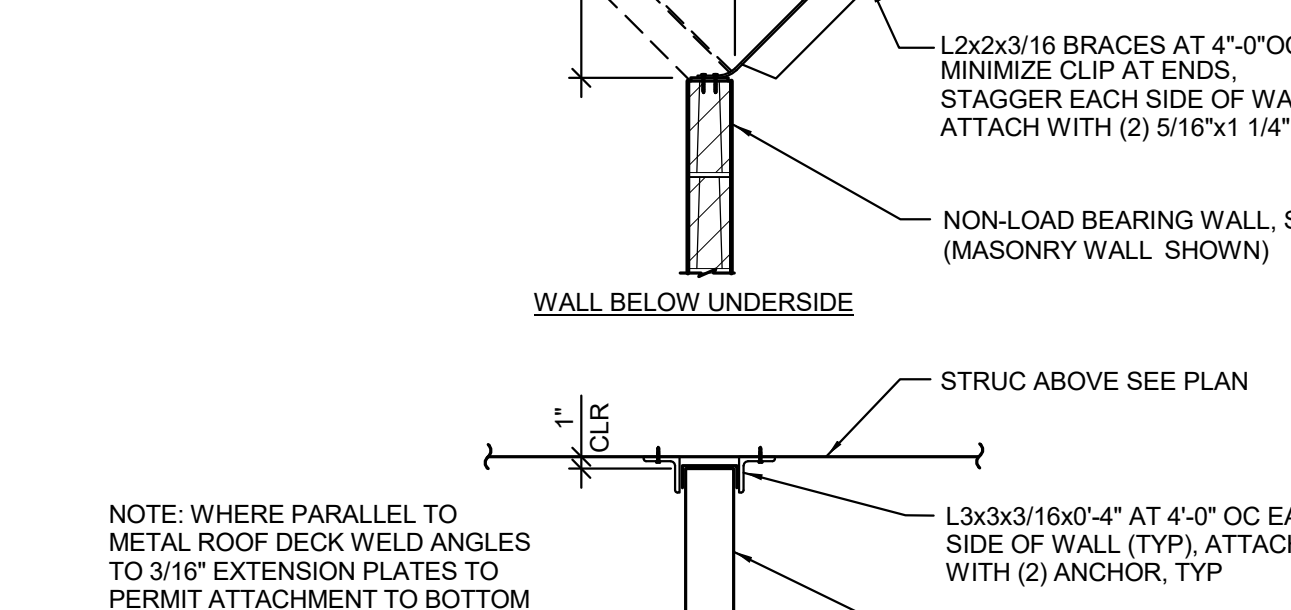
7 LOW ROOF DECK SUPPORT
S7.01 1 1/2" = 1'-0"



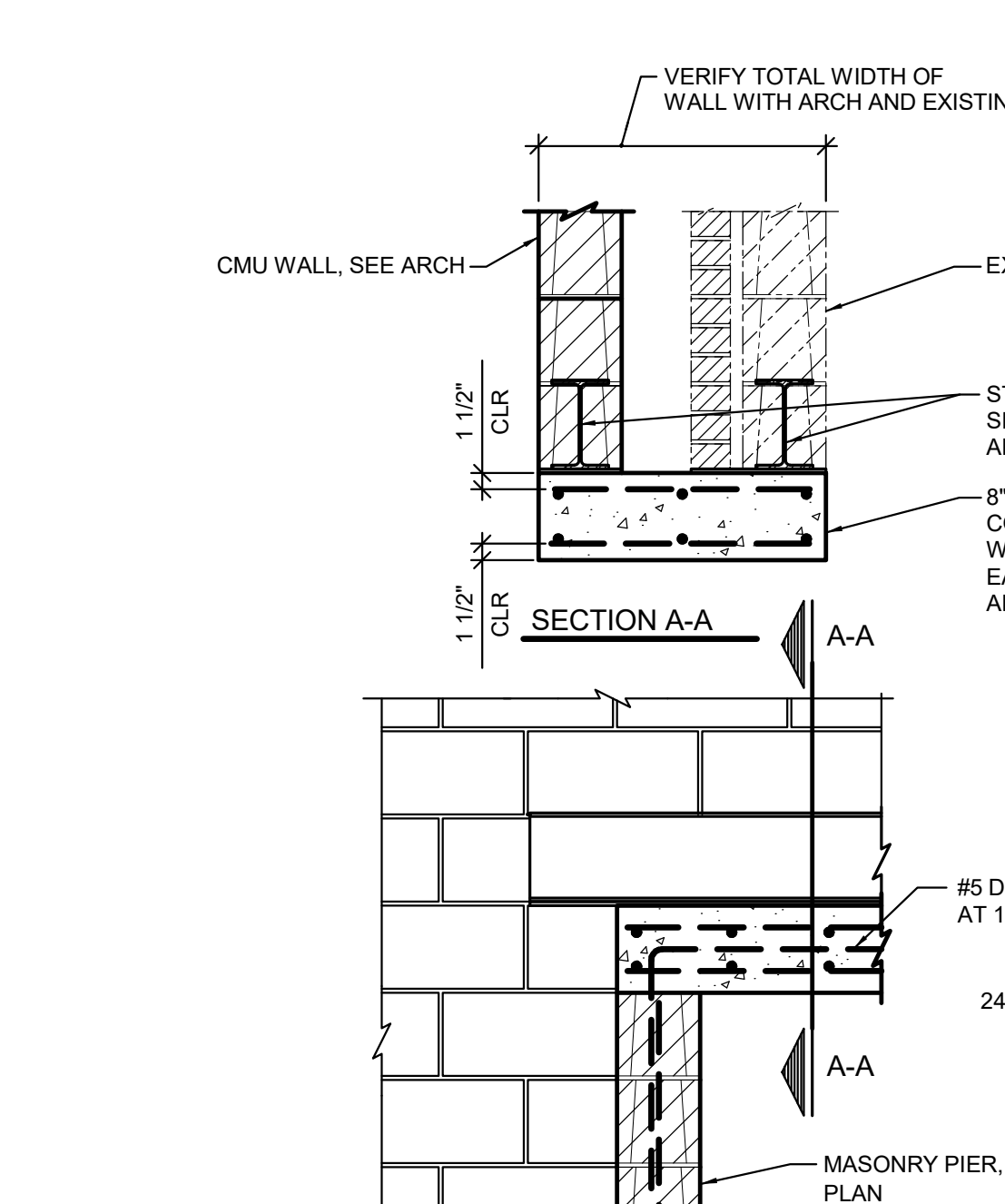
8 DECK EDGE AT LIGHT GAGE
S7.01 3/4" = 1'-0"



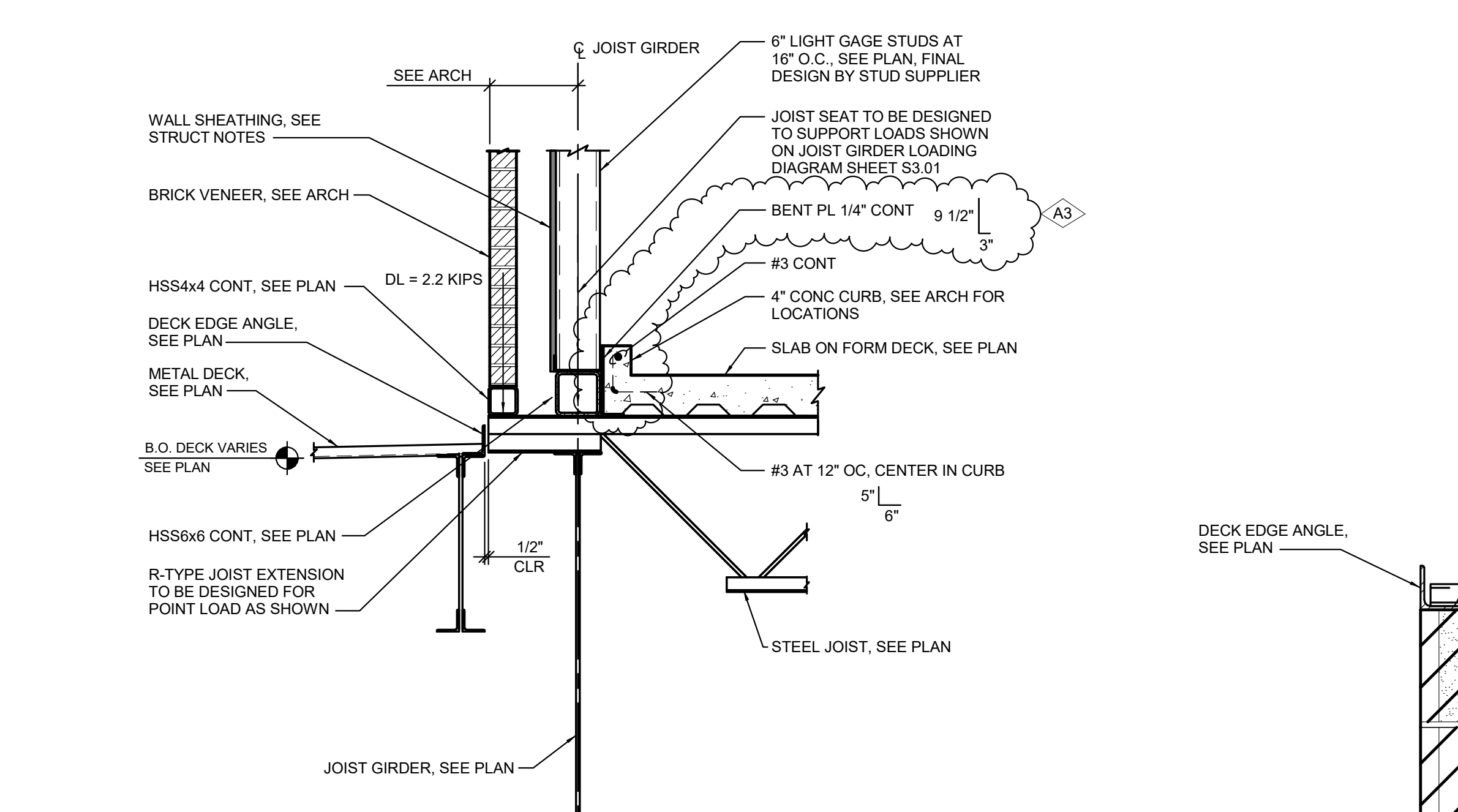
9 JOIST BEARING DETAIL
S7.01 3/4" = 1'-0"



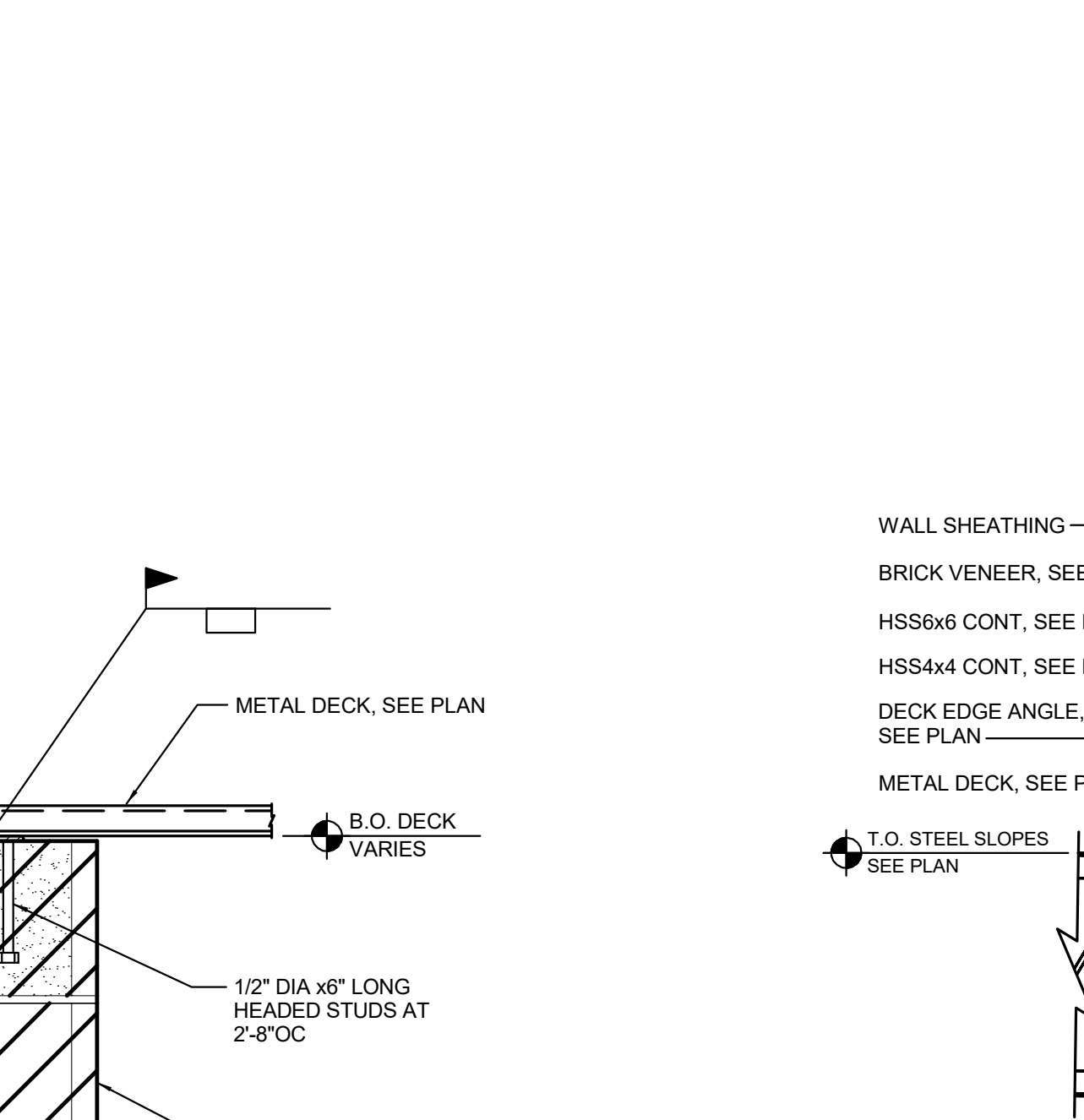
10 TYPICAL NON-BEARING WALL BRACING
S7.01 3/4" = 1'-0"



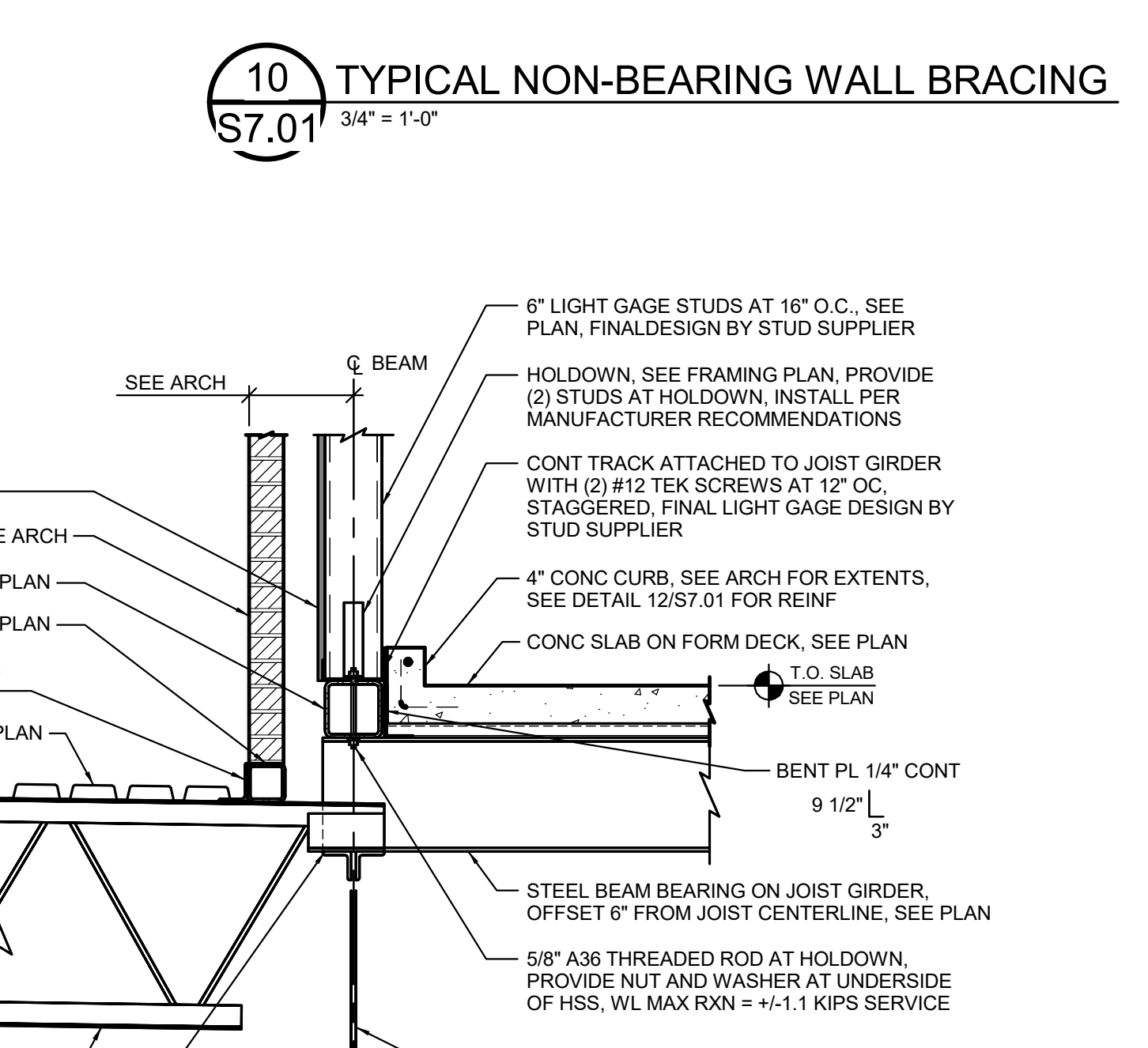
11 PORTAL FRAME
S7.01 3/4" = 1'-0"



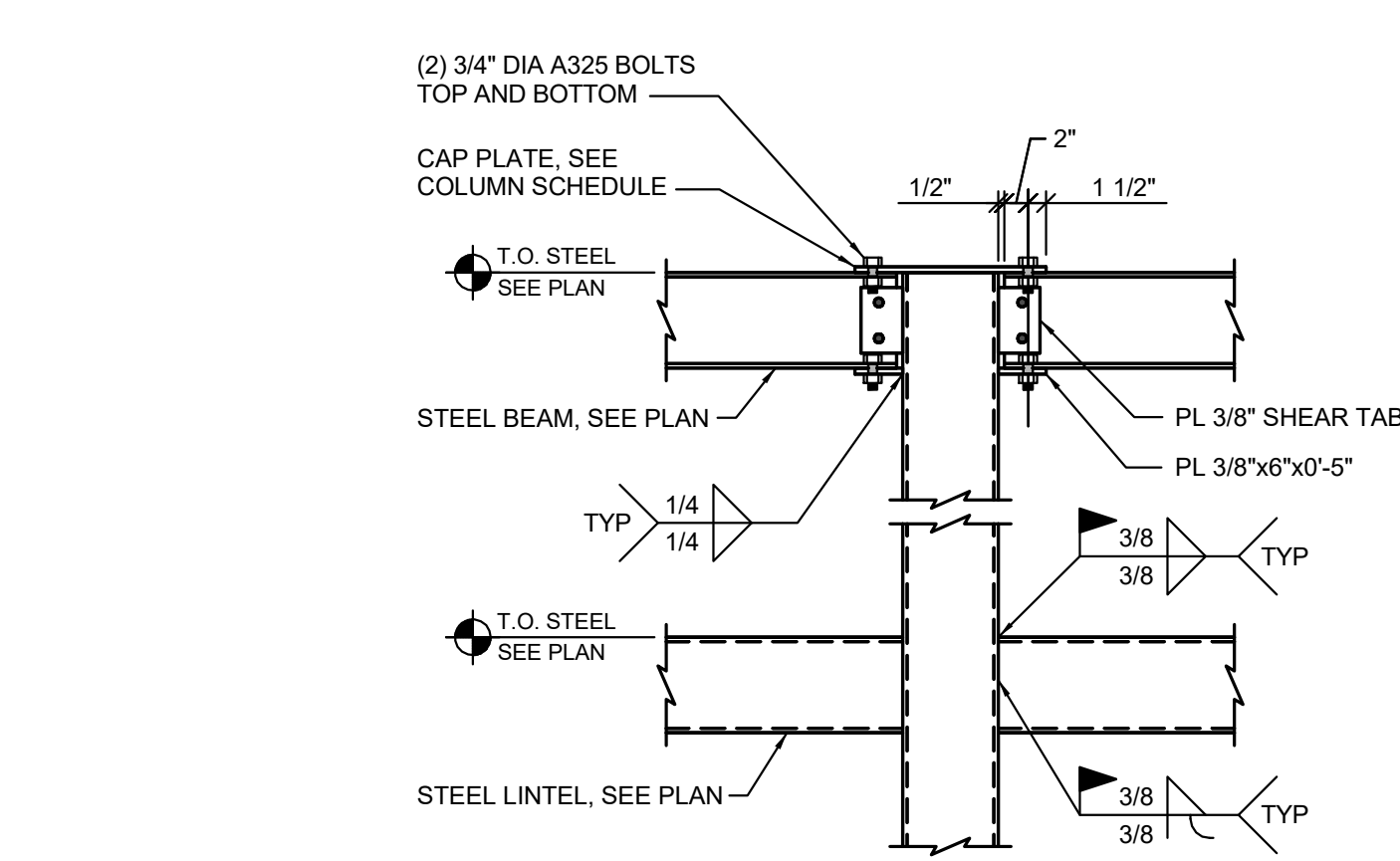
12 BRICK SUPPORT AT LOW ROOF
S7.01 3/4" = 1'-0"



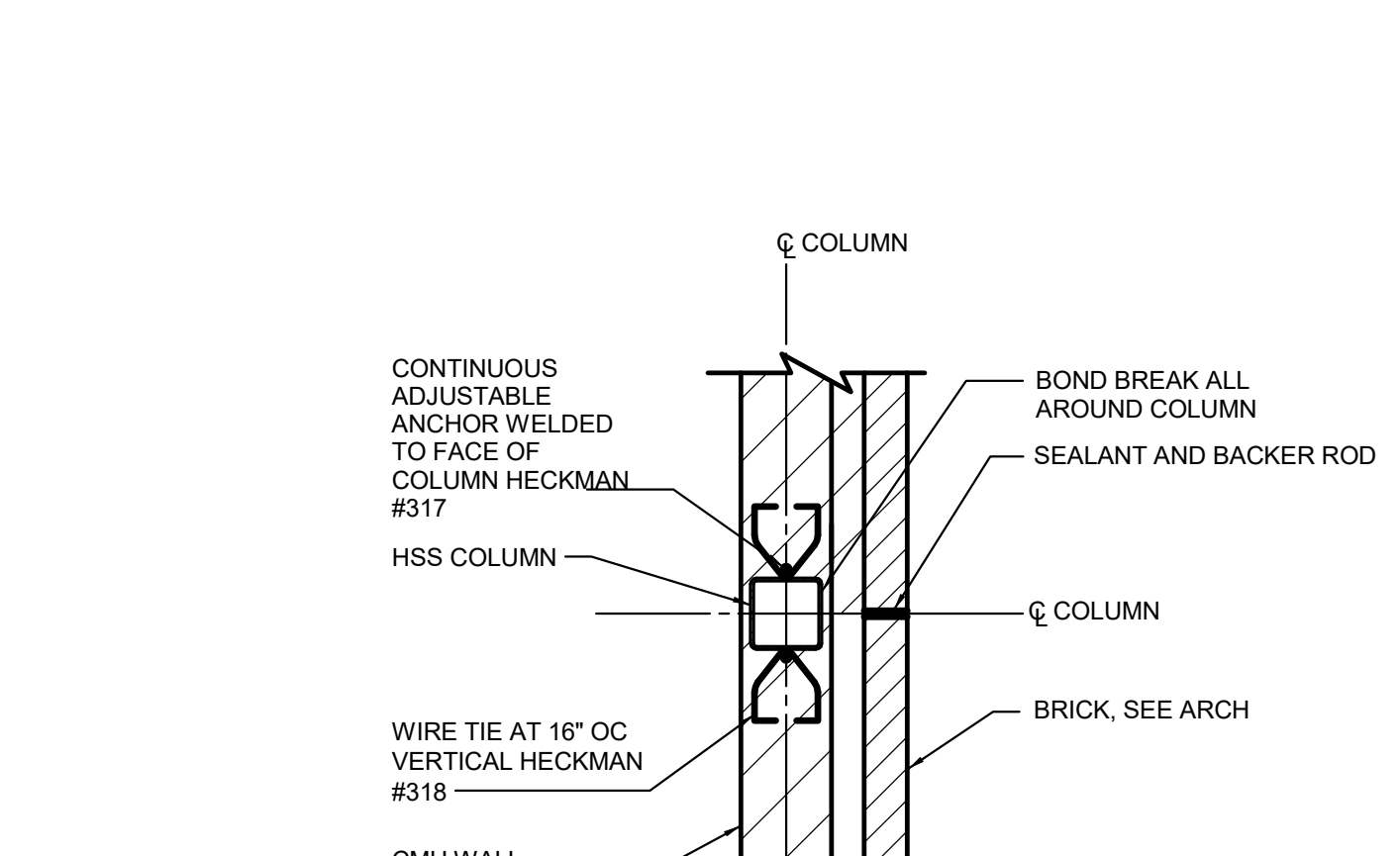
13 DECK SUPPORT ANGLE
S7.01 1 1/2" = 1'-0"



14 BRICK VENEER SUPPORT
S7.01 3/4" = 1'-0"



15 MC1 - MOMENT CONNECTION
S7.01 3/4" = 1'-0"



16 TYPICAL COLUMN MASONRY ANCHOR
S7.01 3/4" = 1'-0"

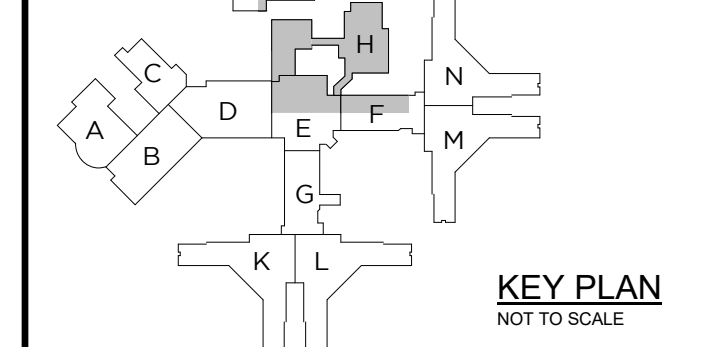
A3	ADDENDUM NO. 3	09/28/23
NO.	REVISION	DATE

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PROJECT TITLE
491/20167.SDW - PHASE 500:

CENTER FOR FORENSIC PSYCHIATRY - CREATE KITCHEN
SALINE, MICHIGAN

SHEET TITLE
ROOF FRAMING DETAILS

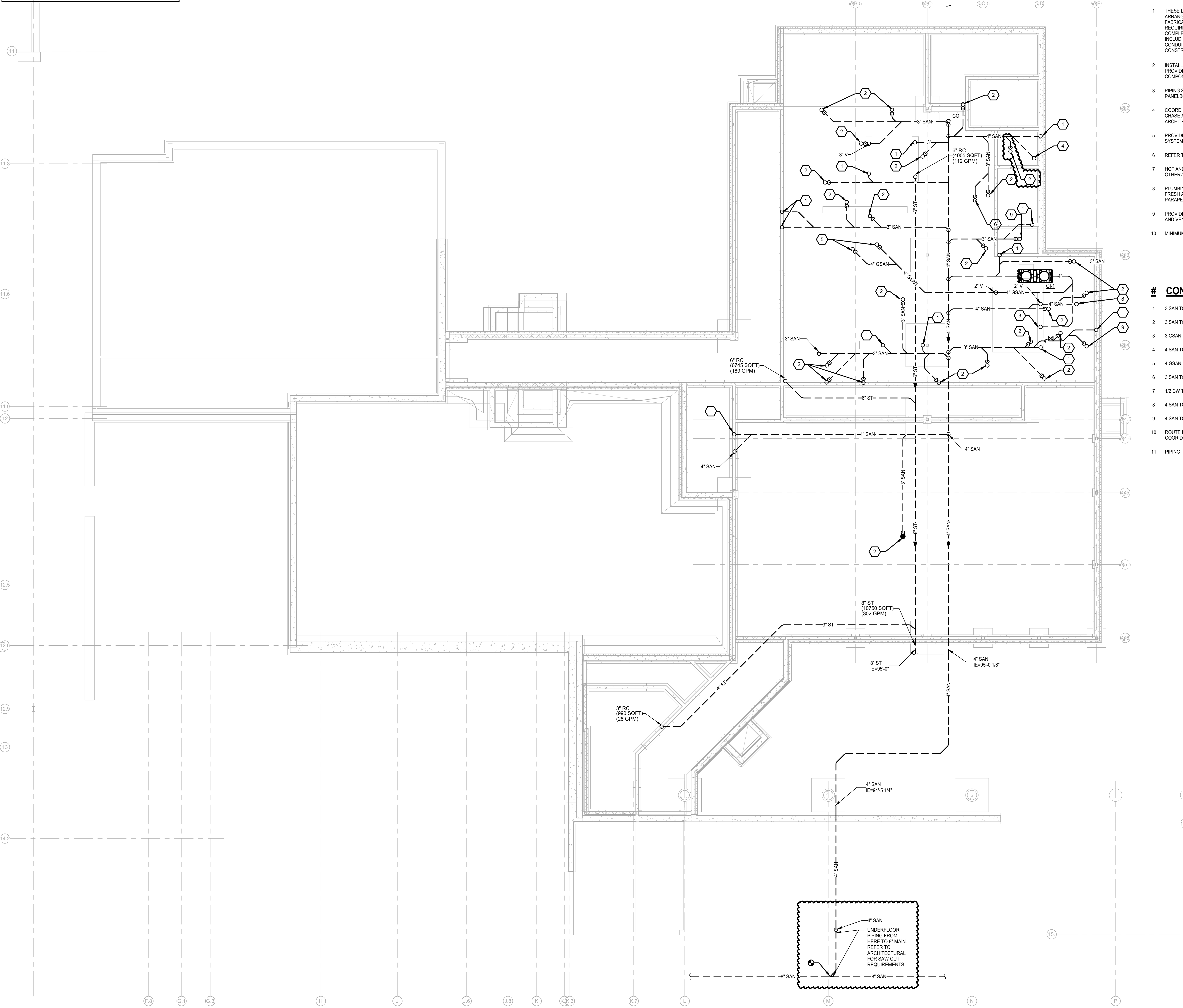
PROJECT NUMBER
2021094

PROJECT DATE
SEPTEMBER 6, 2023

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SHEET NUMBER
S7.01

THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.



PLUMBING GENERAL NOTES:

- THESE DRAWINGS ARE DIAGRAMMATIC, AND REPRESENT THE GENERAL INTENT AND ARRANGEMENT OF SYSTEMS. THEY ARE NOT TO BE CONSIDERED FABRICATION/COORDINATION/SHOP DRAWINGS. COORDINATION WITH OTHER TRADES IS REQUIRED. PROVIDE THE ADDITIONAL FITTINGS AND OFFSETS THAT WILL BE REQUIRED TO COMPLETE EACH SYSTEM AND TO AVOID INTERFERENCES WITH ALL OTHER SYSTEMS INCLUDING THE STRUCTURE, SHEET METAL, OTHER PIPING SYSTEMS, ELECTRICAL CONDUITS, BUS DUCTS, CABLE TRAY, LIGHT FIXTURES, ETC. AND/OR OTHER SPACE CONSTRAINTS.
- INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
- PIPING SHALL NOT BE INSTALLED ABOVE ELECTRICAL TRANSFORMERS, SWITCHBOARDS, PANELBOARDS OR MOTOR CONTROL CENTERS.
- COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
- PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
- REFER TO ARCHITECTURAL PLANS FOR DIMENSIONED LOCATIONS OF PLUMBING FIXTURES.
- HOT AND COLD WATER PIPING RUN-OUTS TO LAVATORIES AND SINKS SHALL BE 1/2" UNLESS OTHERWISE NOTED.
- PLUMBING VENT PIPING THROUGH ROOF SHALL BE LOCATED A MINIMUM OF 10'-0" FROM ANY FRESH AIR INTAKE LOCATION AND A MINIMUM OF 18" CLEAR FROM THE INSIDE FACE OF PARAPET.
- PROVIDE CODE REQUIRED CLEARANCE FOR ALL CLEANOUTS INSTALLED IN SANITARY WASTE AND VENT PIPING.
- MINIMUM UNDERGROUND PIPE SIZE SHALL BE 3".

CONSTRUCTION KEY NOTES:

- 3 SAN TO LAV/SINK.
- 3 SAN TO FLOOR DRAIN/SINK.
- 3 GSAN TO SINK.
- 4 SAN TO WC.
- 4 GSAN TO FLOOR TROUGH.
- 3 SAN TO FLOOR TROUGH.
- 1/2 CW TO DRAIN COOLER.
- 4 SAN TO FLOOR TROUGH.
- 4 SAN TO FLOOR DRAIN/SINK.
- ROUTE IN CEILING SPACE OF GYM. ROUTE ALONG SIDE NEW MECHANICAL PIPING. COORDINATE FINAL ROUTING WITH MECHANICAL TRADES.
- PIPING IN THIS AREA ROUTED WITHIN SECOND FLOOR CEILING SPACE.

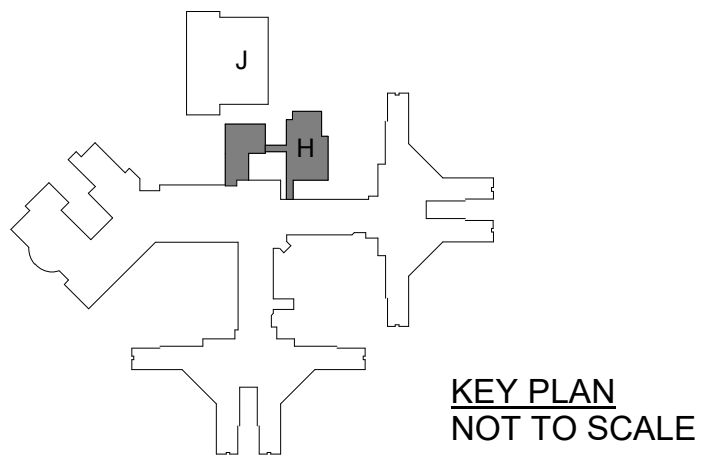
UNDERGROUND PLUMBING PLAN
 SCALE: 1/8" = 1'-0"

1	ADDENDUM #3	09/29/23
NO.	REVISION	DATE

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CENTER FOR FORENSIC PSYCHIATRY - CREATE KITCHEN
 SALINE, MICHIGAN

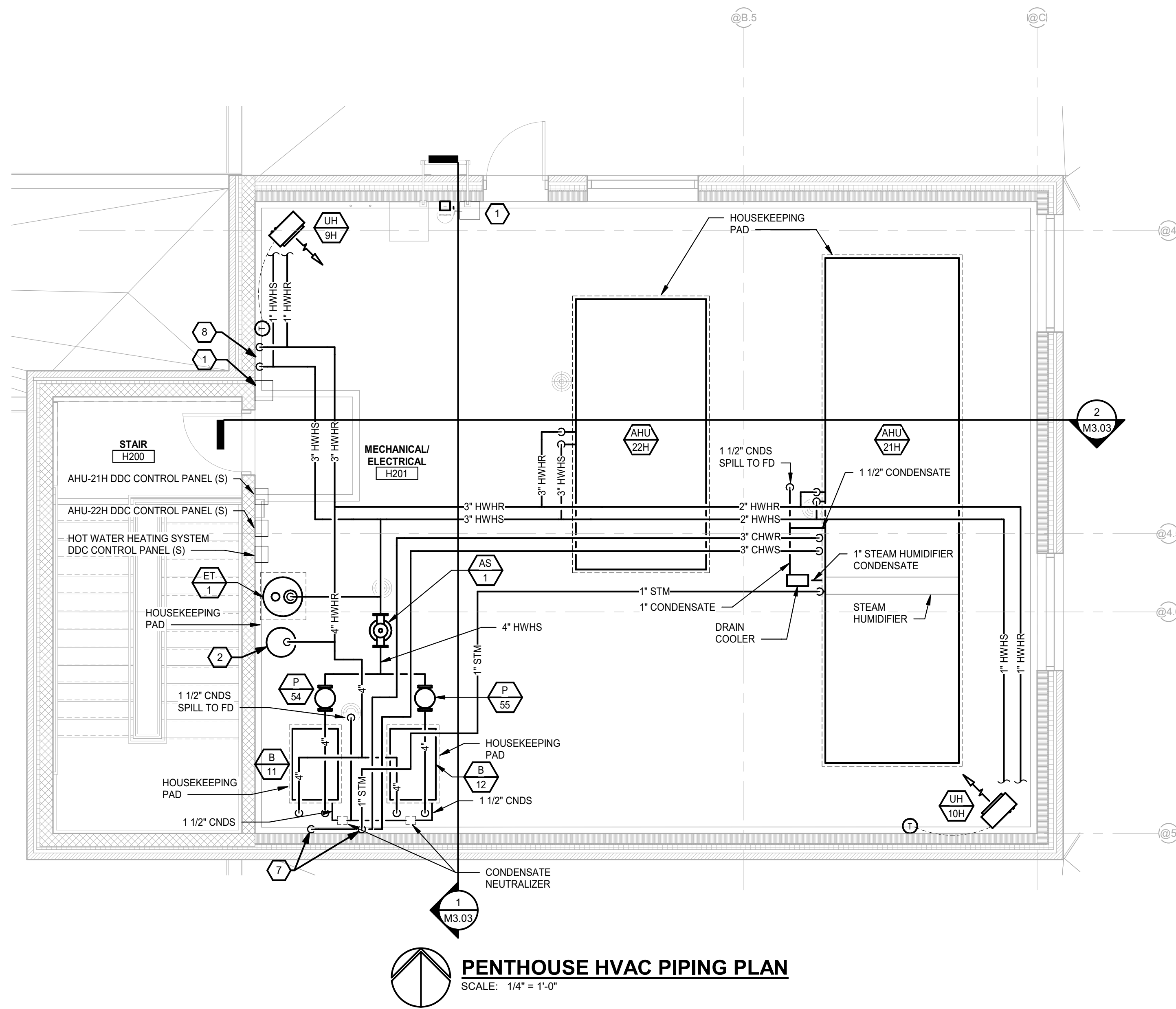
SHEET TITLE
UNDERGROUND PLUMBING PLAN

PROJECT NUMBER 2021094	SHEET NUMBER
PROJECT DATE SEPTEMBER 6, 2023	M2.00
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 PBA Project No. 303-0402

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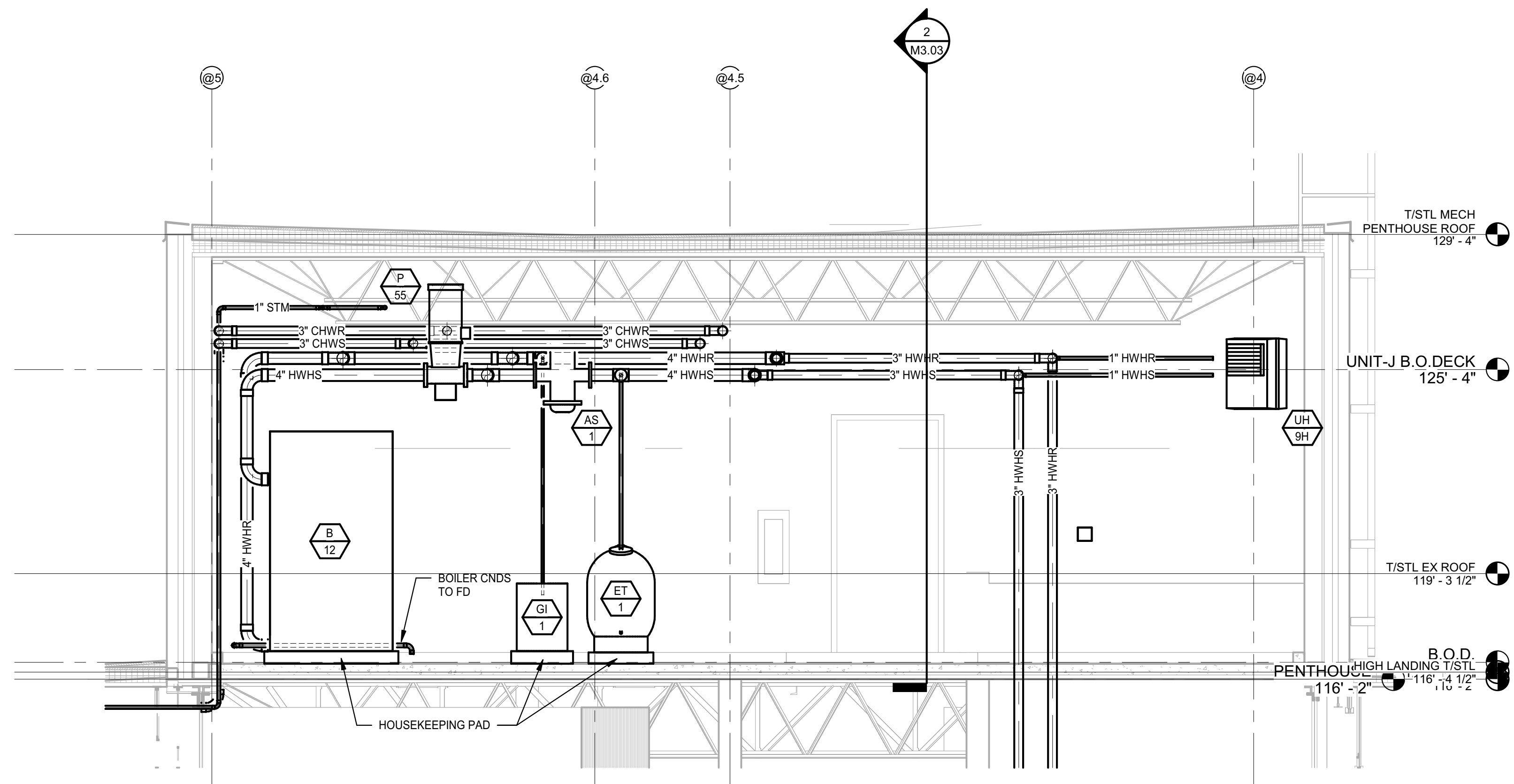
PENTHOUSE HVAC PIPING PLAN
SCALE: 1/4" = 1'-0"

HVAC PIPING GENERAL NOTES:

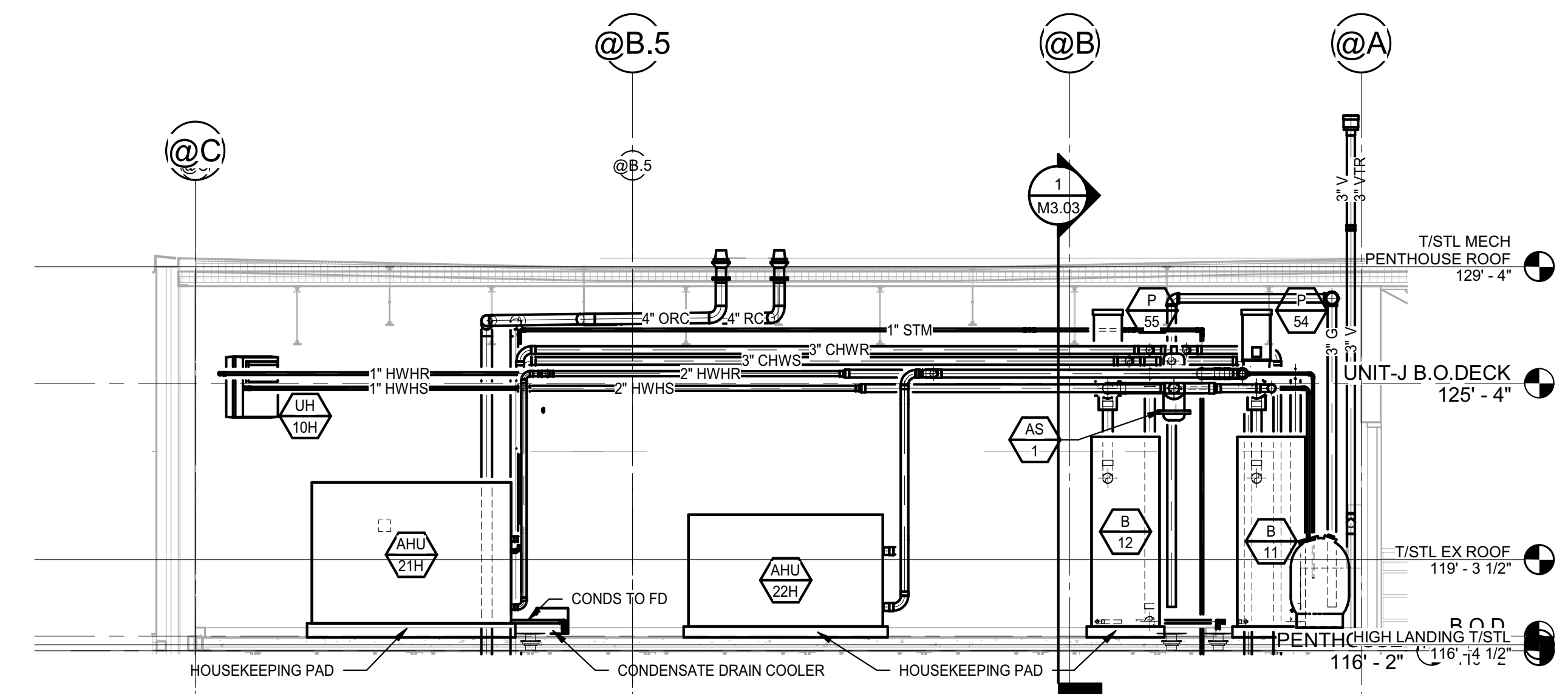
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- INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
- PIPING AND DUCTWORK SHALL NOT BE INSTALLED ABOVE ELECTRICAL TRANSFORMERS, SWITCHBOARDS, PANELBOARDS OR MOTOR CONTROL CENTERS.
- COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
- PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
- SUBMIT PROPOSED METHODS OF ANCHORING AND GUIDING PIPING SYSTEMS TO STRUCTURAL ENGINEER FOR APPROVAL.
- COORDINATE LOCATION OF DUCT-MOUNTED HYDRONIC DEVICES WITH SHEET METAL TRADES.
- BRANCH PIPING SERVING TERMINAL UNIT HEATING COILS OR RADIANT CEILING PANELS SHALL BE 3/4" UNLESS OTHERWISE NOTED. BRANCH PIPING SERVING MORE THAN ONE TERMINAL UNIT HEATING COIL SHALL BE 1" UNLESS OTHERWISE NOTED. BRANCH PIPING SERVING HOT WATER UNIT HEATERS AND CABINET UNIT HEATERS SHALL BE 1" UNLESS OTHERWISE NOTED.
- REFER TO TEMPERATURE CONTROLS STANDARD MOUNTING HEIGHTS DETAIL FOR ELEVATIONS OF WALL MOUNTED TEMPERATURE CONTROL DEVICES.

CONSTRUCTION KEY NOTES:

- EMERGENCY BOILER SHUT OFF
- GLYCOL MAKEUP UNIT
- LENGTHS SHOWN ARE ACTIVE ELEMENT LENGTH. CONTRACTOR TO SUPPLY FULL LENGTH COVER.
- ROUTE CHWS, CHWR, AND STEAM UP TO CEILING SPACE AND ROUTE THROUGH JOIST SPACE.
- 3" CHWS, 3" CHWR, 1" STEAM UP TO PENTHOUSE. REFER TO SHEET M3.03 FOR CONTINUATION.
- 3" HWHS AND HWHR UP TO PENTHOUSE. REFER TO SHEET M3.03 FOR CONTINUATION.
- 3" CHWS, 3" CHWR, 1" STEAM DOWN TO FIRST FLOOR. REFER TO SHEET M3.01 FOR CONTINUATION.
- 3" HWHS AND HWHR DOWN TO FIRST FLOOR. REFER TO SHEET M3.01 FOR CONTINUATION.
- ROUTE MECHANICAL PIPING IN CEILING SPACE OF GYM. COORDINATE FINAL ROUTING WITH MECHANICAL TRADES.
- EXISTING LINES THAT NEW MECHANICAL PIPING WILL TIE INTO ARE LOCATED ON SECOND FLOOR.



1 HVAC PIPING 1
SCALE: 3/8" = 1'-0"



2 HVAC PIPING 2
SCALE: 1/4" = 1'-0"

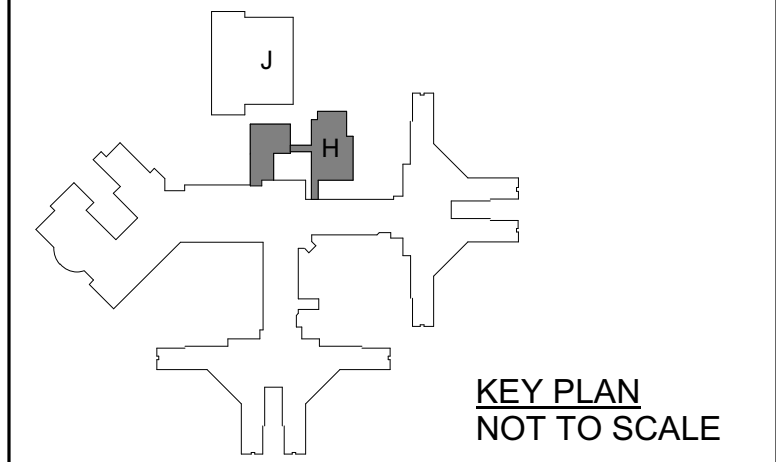
1	ADDENDUM #3	09/29/23
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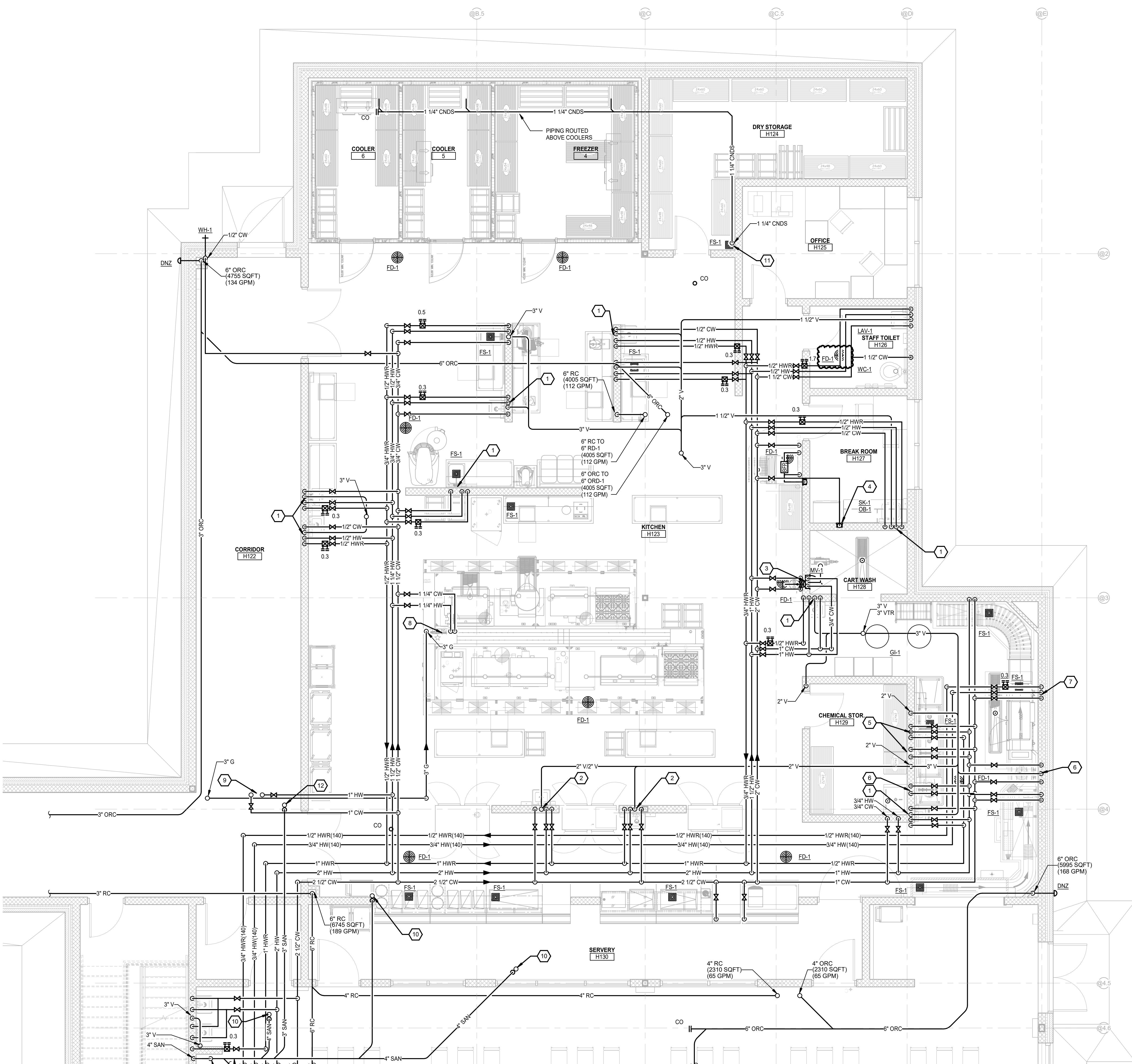
PROJECT TITLE
491/20167.SDW - PHASE 500:
CENTER FOR FORENSIC
PSYCHIATRY - CREATE
KITCHEN
SALINE, MICHIGAN

SHEET TITLE
PENTHOUSE HVAC PIPING
PLAN

PROJECT NUMBER 2021094	SHEET NUMBER
PROJECT DATE SEPTEMBER 6, 2023	M3.03
CHECKED BY WEK	

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Fax: 248-879-0007
www.PeterBassoAssociates.com
PBA Project No. 303-0402

THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.



1 FIRST FLOOR PLUMBING ENLARGED KITCHEN PLAN
SCALE: 1/4" = 1'-0"

PLUMBING GENERAL NOTES:

- 1 THESE DRAWINGS ARE DIAGRAMMATIC, AND REPRESENT THE GENERAL INTENT AND ARRANGEMENT OF SYSTEMS. THEY ARE NOT TO BE CONSIDERED FABRICATION OR COORDINATION SHOP DRAWINGS. COORDINATION WITH OTHER TRADES IS REQUIRED. PROVIDE THE ADDITIONAL FITTINGS AND OFFSETS THAT WILL BE REQUIRED TO COMPLETE EACH SYSTEM AND TO AVOID INTERFERENCES WITH ALL OTHER SYSTEMS INCLUDING THE STRUCTURE, SHEET METAL, OTHER PIPING SYSTEMS, ELECTRICAL CONDUITS, BUS DUCTS, CABLE TRAY, LIGHT FIXTURES, ETC. AND/OR OTHER SPACE CONSTRAINTS.
- 2 INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
- 3 PIPING SHALL NOT BE INSTALLED ABOVE ELECTRICAL TRANSFORMERS, SWITCHBOARDS, PANELBOARDS OR MOTOR CONTROL CENTERS.
- 4 COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
- 5 PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
- 6 REFER TO ARCHITECTURAL PLANS FOR DIMENSIONED LOCATIONS OF PLUMBING FIXTURES.
- 7 HOT AND COLD WATER PIPING RUN-OUTS TO LAVATORIES AND SINKS SHALL BE 1/2" UNLESS OTHERWISE NOTED.
- 8 PLUMBING VENT PIPING THROUGH ROOF SHALL BE LOCATED A MINIMUM OF 10'-0" FROM ANY FRESH AIR INTAKE LOCATION AND A MINIMUM OF 18" CLEAR FROM THE INSIDE FACE OF PARAPET.
- 9 PROVIDE CODE REQUIRED CLEARANCE FOR ALL CLEANOUTS INSTALLED IN SANITARY WASTE AND VENT PIPING.
- 10 MINIMUM UNDERGROUND PIPE SIZE SHALL BE 3".

CONSTRUCTION KEY NOTES:

- 1 3 SAN, 2 V, 1/2 CW, 1/2 HW, AND 1/2 HWR TO SINK.
- 2 3 SAN, 1 1/2 V, 1/2 CW, 1/2 HW TO SINK.
- 3 3/4 CW AND 3/4 HW THROUGHOUT CODE REQUIRED BACKFLOW PREVENTER AND CONNECT TO HOSE REEL MIXING VALVE.
- 4 1/2 CW TO OULETBOX FOR ICE MAKER.
- 5 3/4 CW, 3/4 HW TO 3 COMPARTMENT SINK. ROUTE 3 GAS FROM WASH COMPARTMENT ROUTE W FROM RINSE AND SANITIZE COMPARTMENT AND TERMINATE AT CODE REQUIRED DISTANCE ABOVE FLOOR SINK.
- 6 3/4 CW, 3/4 HW TO PRE-SPRAY AND FOOD GRINDER.
- 7 1/2 CW, 1/2 HW(140), AND 1/2 HWR(140) THROUGHOUT CODE REQUIRED BACKFLOW PREVENTER. ROUTE 1/2 CW, 1/2 HW(140) FROM BACKFLOW PREVENTER TO DISHWASHER. ROUTE W FROM BACKFLOW PREVENTER AND DISHWASHER AND TERMINATE AT CODE REQUIRED DISTANCE ABOVE FLOOR SINK.
- 8 3/4 CW, 3/4 HW, 1/2 HWR, AND 3 GAS TO UTILITY DISTRIBUTIONS SYSTEM.
- 9 1 CW AND 1 HW TO PENTHOUSE ABOVE.
- 10 4 SAN TO FLOOR DRAIN/SINK.
- 11 TERMINATE CONDENSATE AT CODE REQUIRED DISTANCE ABOVE FLOOR DRAIN/SINK.
- 12 3 SAN FOR FLOOR DRAIN/SINK.

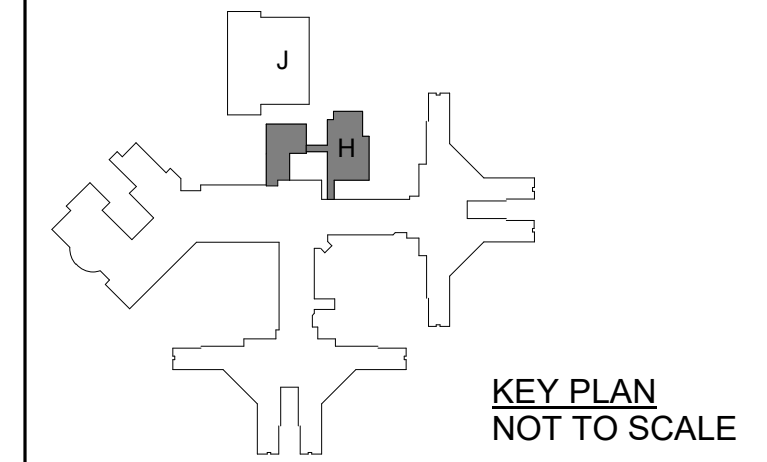
1	ADDENDUM #3	09/29/23
NO.	REVISION	DATE

STATE OF MICHIGAN
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET
FACILITIES AND BUSINESS SERVICES ADMINISTRATION
DESIGN AND CONSTRUCTION DIVISION
ADAM LACHI, RA, DIRECTOR

FILE NO.
491/20167.SDW

FUNDING CODE
171CODHHS7255

CONTRACT NO.
Y22003



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PROJECT TITLE
491/20167.SDW - PHASE 500:
**CENTER FOR FORENSIC
PSYCHIATRY - CREATE
KITCHEN**

SALINE, MICHIGAN

SHEET TITLE
PLUMBING ENLARGED PLAN

PROJECT NUMBER
2021094

SHEET NUMBER

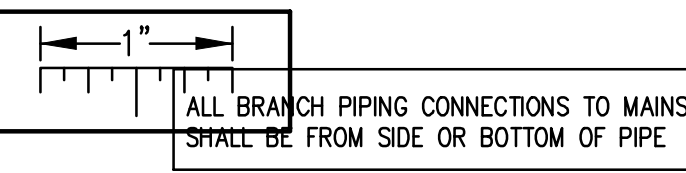
PROJECT DATE
SEPTEMBER 6, 2023

M5.01

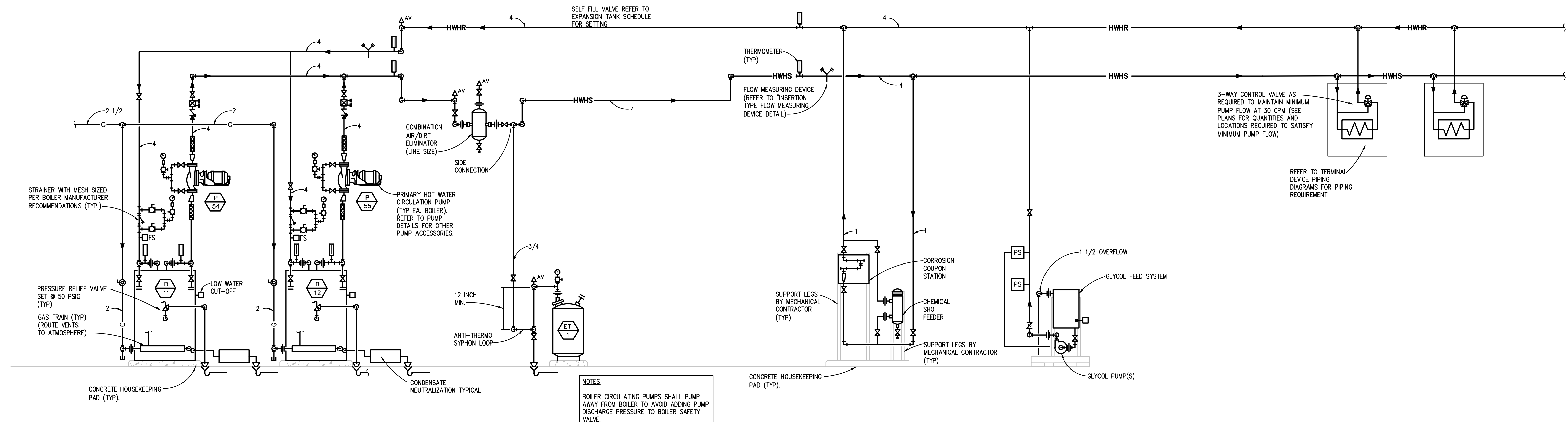
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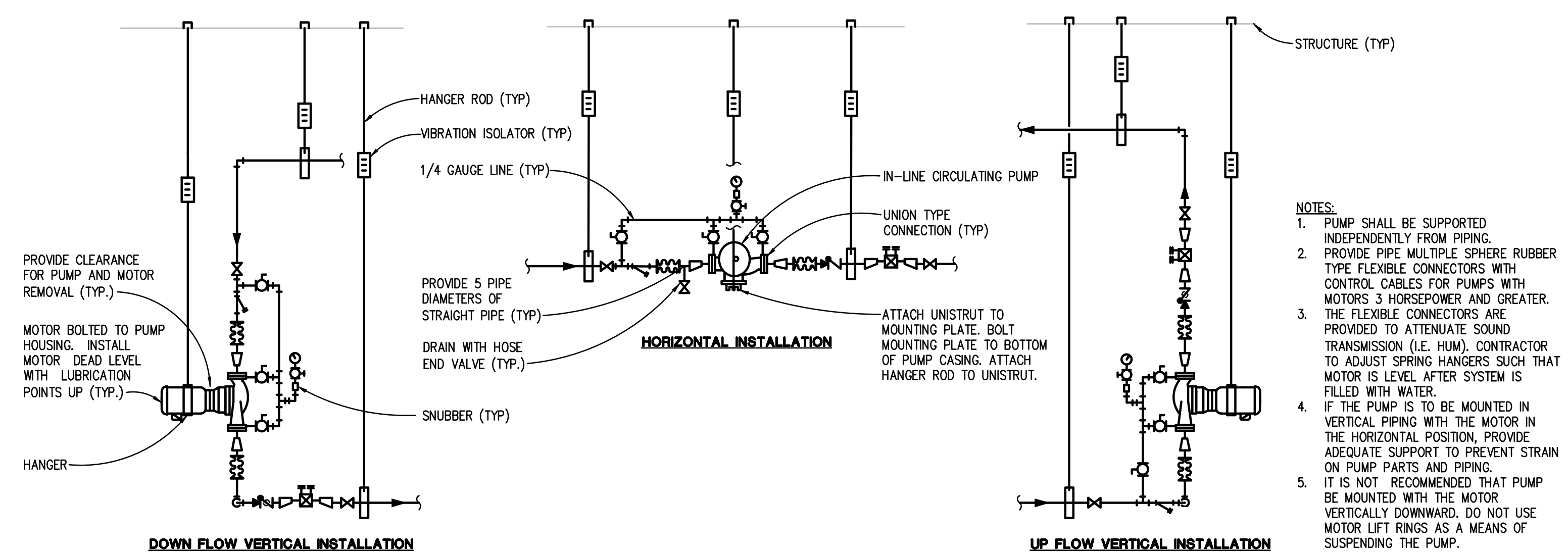
THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.



ALL BRANCH PIPING CONNECTIONS TO MAINS SHALL BE FROM SIDE OR BOTTOM OF PIPE

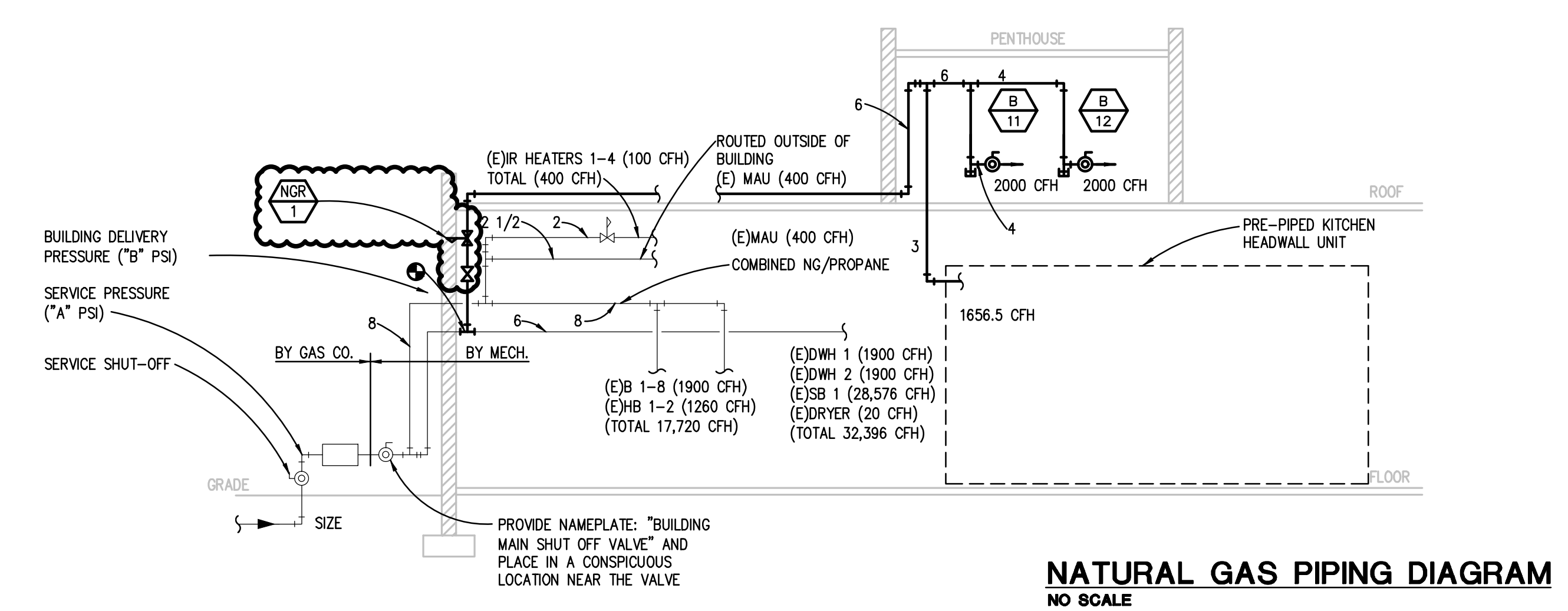


BOILER PIPING DIAGRAM
NO SCALE

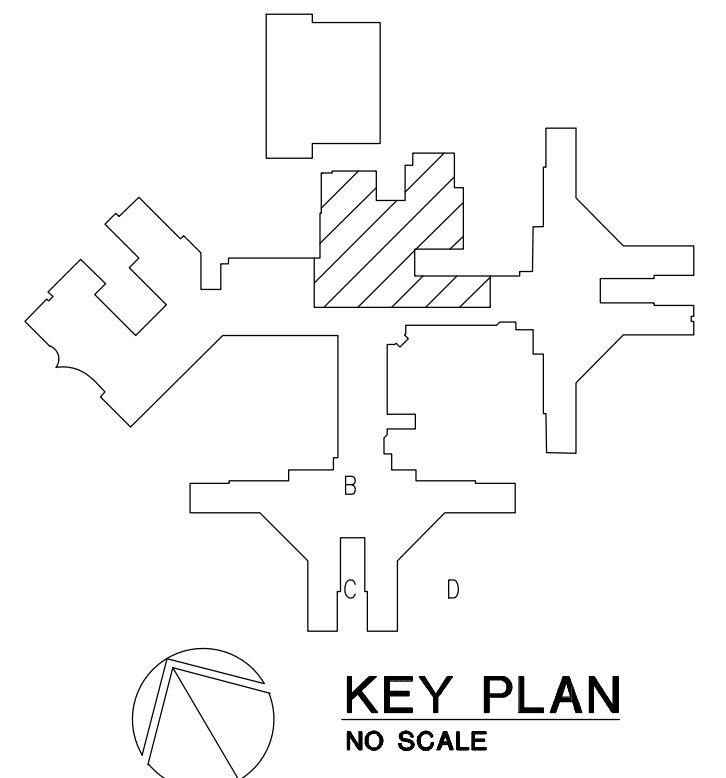


- NOTES:**
1. PUMP SHALL BE SUPPORTED INDEPENDENTLY FROM PIPING.
 2. PROVIDE PIPE MULTIPLE SPHERE RUBBER TYPE FLEXIBLE CONNECTORS WITH CONTROL CABLES FOR PUMPS WITH MOTORS 3 HORSEPOWER AND GREATER.
 3. THE FLEXIBLE CONNECTORS ARE PROVIDED TO ATTENUATE SOUND TRANSMISSION (I.E. HUM). CONTRACTOR TO ADJUST SPRING HANGERS SUCH THAT MOTOR IS LEVEL AFTER SYSTEM IS FILLED WITH WATER.
 4. IF THE PUMP IS TO BE MOUNTED IN VERTICAL PIPING WITH THE MOTOR IN THE HORIZONTAL POSITION, PROVIDE ADEQUATE SUPPORT TO PREVENT STRAIN ON PUMP PARTS AND PIPING.
 5. IT IS NOT RECOMMENDED THAT PUMP BE MOUNTED WITH THE MOTOR VERTICALLY DOWNWARD. DO NOT USE MOTOR LIFT RINGS AS A MEANS OF SUSPENDING THE PUMP.

IN-LINE CLOSE COUPLED (BELL AND GOSSETT SERIES 80 AND 90) TYPE CIRCULATING PUMP PIPING DIAGRAM
NO SCALE



NATURAL GAS PIPING DIAGRAM
NO SCALE



KEY PLAN
NO SCALE

1	ADDENDUM #3	09/29/23
NO.	REVISION	DATE

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DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET
FACILITIES AND BUSINESS SERVICES ADMINISTRATION
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491/20167.SDW

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PROJECT TITLE
491/20167.SDW - PHASE 500:
CENTER FOR FORENSIC PSYCHIATRY - CREATE KITCHEN
SALINE, MICHIGAN

SHEET TITLE
MECHANICAL DETAILS

PROJECT NUMBER 2021094	SHEET NUMBER M6.01
PROJECT DATE AUGUST 23, 2023	
CHECKED BY WEK	

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ABOVEGROUND HVAC PIPE & ACCESSORY INSULATION APPLICATION SCHEDULE											
	INSULATION MATERIAL & THICKNESS (INCHES)						FIELD-APPLIED JACKET MATERIAL				KEYED NOTES
	FLEXIBLE ELASTOMERIC	FIBERGLASS	MINERAL WOOL	POLYISOCYANURATE	PHENOLIC	CELLULAR GLASS	CALCIUM SILICATE	ALUMINUM	STAINLESS STEEL	PVC	
INDOOR PIPE SYSTEM AND SIZE (INCHES)											
CHILLED WATER & BRINE BELOW 40 DEG F:											
NPS 6 AND SMALLER		1					X	X			A
NPS 8 AND LARGER		1.5					X	X			A
CHILLED WATER & BRINE 40 DEG F TO 60 DEG F:	1	1					X	X			A
HEATING HOT WATER SUPPLY & RETURN 200 DEG F AND LOWER											
NPS 1-1/4 AND SMALLER		1.5					X	X			A
NPS 1-1/2 AND LARGER		2					X	X			A
LOW PRESS. STEAM, CONDENSATE & PUMPED CONDENSATE:											
NPS 1-1/4 AND SMALLER		2.5	2.5				3	X			A
NPS 1-1/2 AND LARGER		3	3				3	X			A
MED. & HIGH PRESS. STEAM, CONDENSATE & PUMPED CONDENSATE:											
NPS 3/4 AND SMALLER		3	3				5	X			A
NPS 1 TO 1-1/4		4	4				5	X			A
NPS 1-1/2 AND LARGER		4.5	4.5				5	X			A
REFRIGERANT SUCTION & HOT GAS (RIGID COPPER)											
NPS 6 AND SMALLER	1	1					X	X			
NPS 8 AND LARGER	1.5	1.5					X	X			
REFRIGERANT SUCTION & HOT GAS (SOFT COPPER)											
NPS 6 AND SMALLER	1	1					X	X			
NPS 8 AND LARGER	1.5	1.5					X	X			

UNLESS OTHERWISE INDICATED OR SCHEDULED, THE FOLLOWING DO NOT REQUIRE INSULATION:
 DIRECT BURIED COOLING SYSTEM PIPING
 PIPING THAT CONVEYS FLUIDS HAVING DESIGN OPERATING TEMPERATURE RANGE BETWEEN 60 DEG F. AND 105 DEG F., INCLUSIVE.

GENERAL NOTES

- "X" OR THICKNESS IN INCHES INDICATES ACCEPTABLE SELECTION. IF MORE THAN ONE SELECTION IS INDICATED, CONTRACTOR MAY SELECT FROM THOSE INDICATED SELECTIONS.
- INSULATE PIPING WITHIN AIR HANDLING EQUIPMENT THE SAME AS INDOOR PIPING. PROVIDE ALUMINUM OR STAINLESS STEEL JACKET.
- FOR PIPING NPS 1-1/4 AND SMALLER WITHIN PARTITIONS IN CONDITIONED SPACES INSULATION MAY BE REDUCED BY ONE-INCH THICKNESS, BUT NOT TO LESS THAN ONE-INCH THICKNESS.
- FOR PIPING NPS 1 AND SMALLER, INSULATION IS NOT REQUIRED FOR STRAINERS, CONTROL VALVES, AND BALANCING VALVES.

KEYED NOTES

- PROVIDE FIELD APPLIED JACKET FOR PIPING EXPOSED IN EQUIPMENT ROOMS, STORAGE ROOMS, JANITORS CLOSETS, RECEIVING ROOMS, TEST AREAS, CIRCULATION AREAS AND SUCH AREAS SUBJECT TO DAMAGE WITHIN 10 FEET (3 METERS) OF FINISHED FLOOR.
- PROVIDE MANUFACTURER'S RECOMMENDED PROTECTIVE COATING FOR FLEXIBLE ELASTOMERIC THERMAL INSULATION.
- STEAM AND CONDENSATE PIPING JACKET SHALL BE STUCCO EMBOSSED.
- PIPING WITHIN ENERGY RECOVERY UNITS SHALL BE TYPE 304 STAINLESS STEEL, SMOOTH; 0.010 INCH THICK. SEAMS AND JOINTS CAULKED WITH CHEMICALLY RESISTANT SEALER.

DUCT SYSTEM INSULATION APPLICATION SCHEDULE												
	INSULATION MATERIAL & THICKNESS (INCHES)						FIELD-APPLIED JACKET MATERIAL				KEYED NOTES	
	FIBERGLASS BLANKET 0.75 LB/QU FT	FIBERGLASS BLANKET 1.0 LB/QU FT	FIBERGLASS BOARD 2.25 LB/QU FT	FIBERGLASS BOARD 4.0 LB/QU FT	FLEXIBLE ELASTOMERIC	ASTM E2306 2-HOUR FIRE RATED BLANKET	2-HOUR FIRE RATED BLANKET	ALUMINUM	SELF-ADHESIVE (FOR OUTDOOR APPLICATIONS)	PVC (OUTDOOR)		
DUCT SYSTEMS LOCATED INDOORS												
SUPPLY AIR, EXCEPT AS NOTED BELOW							1.5					A, E
RECTANGULAR SUPPLY AIR IN MECHANICAL ROOMS							1.5					
ROUND & FLAT OVAL SUPPLY AIR IN MECHANICAL ROOMS							1.5					
RECTANGULAR RETURN AIR IN MECHANICAL EQUIPMENT ROOMS							1.5					
ROUND RETURN AIR IN MECHANICAL ROOMS							1.5					
OUTSIDE AIR AND MIXED AIR, EXCEPT AS NOTED BELOW							1.5					
RECTANGULAR OUTSIDE AIR AND MIXED AIR IN MECHANICAL ROOMS							1.5					
ROUND OUTSIDE AIR AND MIXED AIR IN MECHANICAL ROOMS							1.5					
EXHAUST AND RELIEF AIR BETWEEN ISOLATION DAMPER AND PENETRATION OF BUILDING EXTERIOR, EXCEPT AS NOTED BELOW							1.5					
RECTANGULAR EXHAUST AND RELIEF AIR BETWEEN ISOLATION DAMPER AND PENETRATION OF BUILDING EXTERIOR, IN MECHANICAL ROOMS							1.5					
ROUND & FLAT OVAL EXHAUST AND RELIEF AIR BETWEEN ISOLATION DAMPER AND PENETRATION OF BUILDING EXTERIOR, IN MECHANICAL ROOMS							1.5					
DUCT SYSTEMS LOCATED IN ATTICS, CRAWL SPACES, OR PARKING GARAGES HAVING NATURAL OR MECHANICAL VENTILATION												
RECTANGULAR DUCTS AND AIR PLENUMS, ALL TYPES							3		2			
ROUND & FLAT OVAL SUPPLY AIR							3					
ROUND & FLAT OVAL RETURN & EXHAUST AIR							3					

PLENUMS, DUCTS, AND DUCT ACCESSORIES NOT REQUIRING INSULATION:
 FIBROUS-GLASS DUCTS
 DOUBLE-WALL METAL DUCTS WITH INSULATION OF SUFFICIENT THICKNESS TO COMPLY WITH ENERGY CODE AND ASHRAE/IESNA 90.1 - 2013
 METAL DUCTS WITH DUCT LINER OF SUFFICIENT THICKNESS TO COMPLY WITH ENERGY CODE AND ASHRAE/IESNA 90.1 - 2013
 FABRIC SUPPLY DUCTS
 FACTORY-INSULATED FLEXIBLE DUCTS
 FACTORY-INSULATED PLENUMS AND CASINGS
 FLEXIBLE CONNECTORS
 VIBRATION-CONTROL DEVICES
 FACTORY-INSULATED ACCESS PANELS AND DOORS

GENERAL NOTES

- "X" OR THICKNESS IN INCHES INDICATES ACCEPTABLE SELECTION. IF MORE THAN ONE SELECTION IS INDICATED FOR A DUCT SYSTEM, CONTRACTOR MAY SELECT FROM THOSE INDICATED SELECTIONS.
- REFER TO METAL DUCT SECTION OF SPECIFICATIONS FOR DUCT LINING AND DOUBLE-WALL INSULATED DUCT.
- REFER TO HVAC CASINGS SECTION OF SPECIFICATIONS FOR DOUBLE-WALL INSULATED PLENUMS.

KEYED NOTES

- INCLUDE INSULATION AROUND DUCT MOUNTED COILS AND AIR TERMINAL UNIT COILS.
- NUMBER OF LAYERS AND TOTAL INSULATION THICKNESS AS RECOMMENDED BY SELECTED MANUFACTURER.
- DOES NOT APPLY TO PREFABRICATED, ZERO-CLEARANCE, GREASE DUCT.
- PROVIDE MANUFACTURER'S RECOMMENDED PROTECTIVE COATING FOR FLEXIBLE ELASTOMERIC THERMAL DUCT INSULATION.
- EXPOSED SUPPLY DUCTWORK LOCATED IN CONDITIONED SPACE SERVED BY THAT SYSTEM IS NOT REQUIRED TO BE INSULATED.

HORIZONTAL PIPING AND SUPPORT APPLICATION SCHEDULE											
	HANGER OR SUPPORT TYPE						SHELD TYPE				KEYED NOTES
	MSS TYPE 1 CLEVIS HANGER	MSS TYPE 10 SWIVEL RING BAND HANGER	MSS TYPE 41 DOUBLE ROD PIPE ROLLER	MSS TYPE 43 SINGLE ROD ROLLER HANGER	MSS TYPE 44 PIPE ROLLER & STAND	MSS TYPE 46 ADJUSTABLE PIPE ROLL STAND	MSS TYPE 39 PROTECTION SADDLE	MSS TYPE 40 INSULATION PROTECTION SHIELD	THERMAL-HANGER SHIELD		
METAL PIPE TYPE & SIZE											
UNINSULATED SINGLE PIPE											
UP TO 2 INCH	X	X									
2-1/2 INCH TO 4 INCH	X	X									
6 INCH TO 8 INCH	X										
10 INCH	X										
12 INCH				X							
14 INCH AND LARGER			X								
INSULATED SINGLE COLD PIPES											
UP TO 2 INCH	X	X						X	X	A	
2-1/2 INCH TO 4 INCH	X								X		
6 INCH TO 8 INCH	X								X		
10 INCH	X								X		
12 INCH	X								X		
14 INCH AND LARGER	X								X		
INSULATED SINGLE HOT PIPES											
UP TO 2 INCH	X	X						X	X	A, C	
2-1/2 INCH TO 4 INCH		X	X	X	X	X	X	X	X	B, C	
6 INCH TO 8 INCH		X	X	X	X	X	X	X	X	B, C	
10 INCH		X	X	X	X	X	X	X	X	B, C	
12 INCH		X	X	X	X	X	X	X	X	B, C	
14 INCH AND LARGER		X						X	X	B, C	

GENERAL NOTES

- "X" INDICATES APPROVED HANGER OR SUPPORT ELEMENTS. IF MORE THAN ONE HANGER OR SUPPORT ELEMENT IS INDICATED, SELECTION FROM APPROVED ELEMENTS IS CONTRACTOR'S OPTION.
- REFER TO HANGER AND SUPPORT SECTION FOR APPROVED MANUFACTURERS.
- HANGERS AND SUPPORTS USED FOR FIRE PROTECTION SERVICES SHALL BE UL LISTED OR FMG APPROVED.
- HANGER ELEMENTS IN CONTACT WITH BARE COPPER PIPE SHALL BE COPPER PLATED, PLASTIC COATED, FELT LINED, OR USE MANUFACTURED COPPER TUBE ISOLATORS.
- REFER TO INDIVIDUAL PIPING SPECIFICATION SECTIONS FOR HANGER SPACING.
- MULTIPLE PARALLEL COLD PIPES MAY BE TRAPEZE SUPPORTED FROM BELOW USING U-BOLTS OR STRUT CLAMPS AND THERMAL HANGER SHIELDS. REFER TO KEYED NOTE A.
- MULTIPLE PARALLEL COLD PIPES MAY BE TRAPEZE SUPPORTED FROM ABOVE USING STANDARD HANGER ELEMENTS INDICATED FOR SINGLE COLD PIPES.
- MULTIPLE PARALLEL HOT PIPES MAY BE TRAPEZE SUPPORTED FROM BELOW USING ROLLER ELEMENTS AND THERMAL HANGER SHIELD OR INSULATION PROTECTION SADDLE. REFER TO KEYED NOTES B AND C.
- MULTIPLE PARALLEL HOT PIPES MAY BE TRAPEZE SUPPORTED FROM ABOVE USING STANDARD ROLLER HANGERS INDICATED AND THERMAL HANGER SHIELD OR INSULATION PROTECTION SADDLE. REFER TO KEY NOTES B AND C.
- REFER TO INDIVIDUAL PIPING SPECIFICATION SECTIONS FOR ADDITIONAL SYSTEM SPECIFIC HANGER APPLICATIONS.

KEYED NOTES

- USE THERMAL HANGER SHIELD ON TRAPEZE SUPPORTED INSULATED PIPE TO PREVENT CRUSHING OF INSULATION.
- USE THERMAL HANGER SHIELD DESIGNED FOR USE ON ROLLER SUPPORTS FOR INSULATED HOT PIPE.
- USE TYPE 39 PROTECTION SADDLES IF INSULATION WITHOUT VAPOR BARRIER IS INDICATED. FILL INTERIOR VOIDS WITH INSULATION MATCHING ADJOINING INSULATION.

ABOVEGROUND PLUMBING PIPE & ACCESSORY INSULATION APPLICATION SCHEDULE												
	INSULATION MATERIAL & THICKNESS (INCHES)						FIELD-APPLIED JACKET MATERIAL				KEYED NOTES	
	FLEXIBLE ELASTOMERIC	FIBERGLASS	MINERAL WOOL	POLYISOCYANURATE	PHENOLIC	CELLULAR GLASS	CALCIUM SILICATE	ALUMINUM	STAINLESS STEEL	PVC		SELF-ADHESIVE (FOR OUTDOOR APPLICATIONS)
INDOOR PIPE SYSTEM AND SIZE (INCHES)												
DOMESTIC COLD WATER	1	1						X	X			A
DOMESTIC HOT WATER SUPPLY & RETURN 140 DEG F AND LESS:												
NPS 1-1/4 AND SMALLER	1	1						X	X			A
NPS 1-1/2 AND LARGER	1.5	1.5						X	X			A
STORM WATER & OVERFLOW	1	1						X	X			A
ROOF DRAIN AND OVERFLOW DRAIN BODIES	1	1						X	X			A
CONDENSATE AND EQUIPMENT DRAIN PIPING BELOW 60 DEG F	0.75	1						X	X			A
FLOOR DRAINS, TRAPS AND SANITARY DRAIN PIPING WITHIN 10 FEET OF DRAIN RECEIVING CONDENSATE AND EQUIPMENT DRAIN WATER BELOW 60 DEG F	0.75	1						X	X			A
OUTDOOR (ABOVEGROUND) AND TUNNEL PIPE SYSTEM AND SIZE (INCHES)												
DOMESTIC COLD WATER	2	2						X	X	X		B
DOMESTIC HOT WATER SUPPLY & RETURN	2	2						X	X	X		B
SANITARY WHERE HEAT TRACING IS INSTALLED	2							X	X	X		B
STORM WATER AND OVERFLOW WHERE HEAT TRACING IS INSTALLED	2							X	X	X		B

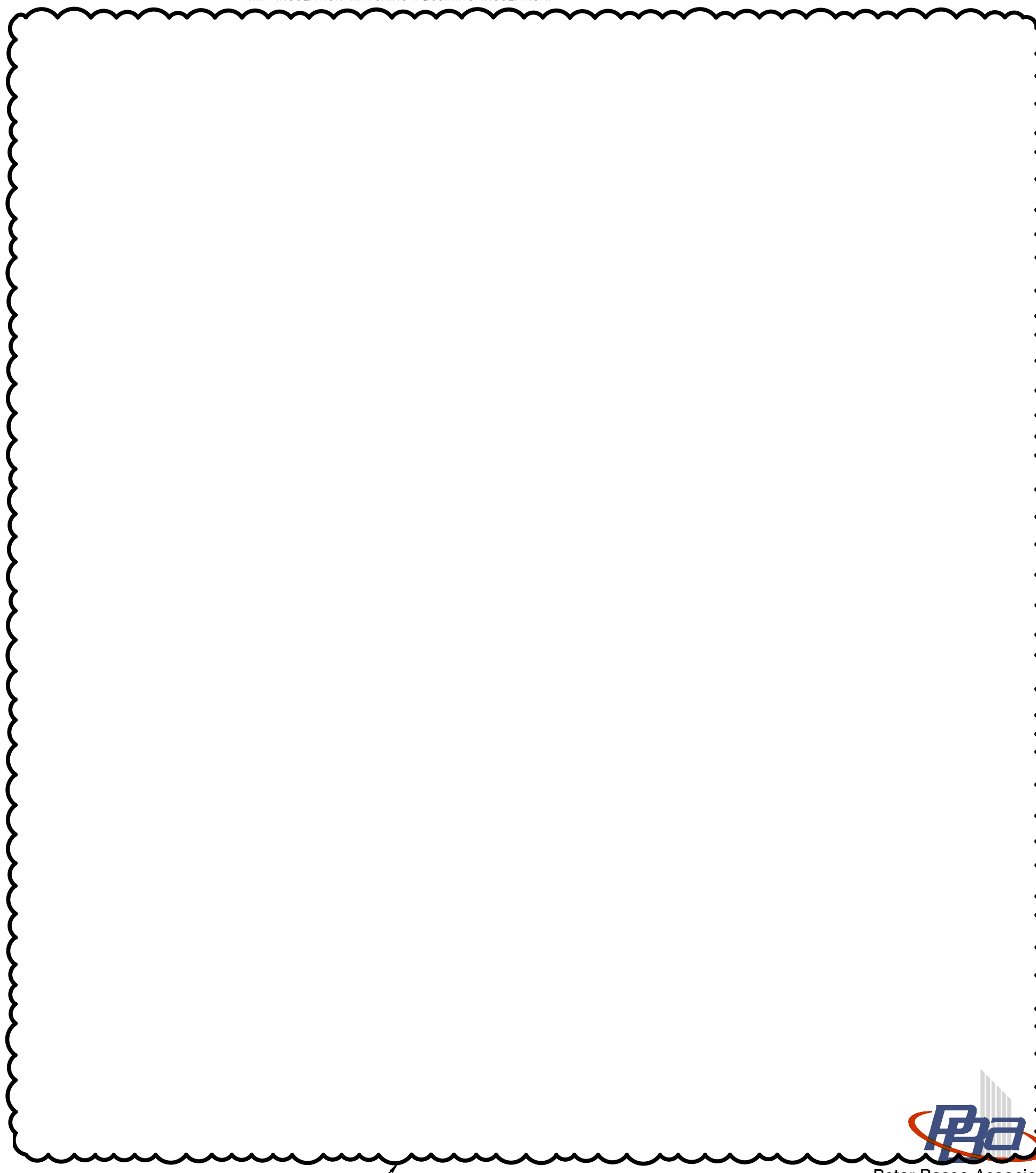
UNLESS OTHERWISE INDICATED OR SCHEDULED, DO NOT INSULATE THE FOLLOWING:
 FIRE SUPPRESSION PIPING
 UNDERGROUND PIPING
 LABORATORY GAS AND VACUUM PIPING
 MEDICAL GAS AND VACUUM PIPING
 FUEL GAS PIPING
 FUEL OIL PIPING

GENERAL NOTES

- "X" OR THICKNESS IN INCHES INDICATES ACCEPTABLE SELECTION. IF MORE THAN ONE SELECTION IS INDICATED FOR A SYSTEM, CONTRACTOR MAY SELECT FROM THOSE INDICATED SELECTIONS.
- INSULATE PIPING WITHIN AIR HANDLING EQUIPMENT THE SAME AS INDOOR PIPING. PROVIDE ALUMINUM OR STAINLESS STEEL JACKET.

KEYED NOTES

- PROVIDE FIELD APPLIED JACKET FOR PIPING EXPOSED IN EQUIPMENT ROOMS, STORAGE ROOMS, JANITORS CLOSETS, RECEIVING ROOMS, TEST AREAS, CIRCULATION AREAS AND SUCH AREAS SUBJECT TO DAMAGE, WITHIN 10 FEET (3 METERS) OF FINISHED FLOOR.
- PROVIDE MANUFACTURER'S RECOMMENDED PROTECTIVE COATING FOR FLEXIBLE ELASTOMERIC THERMAL INSULATION.



1			ADDENDUM #3	09/29/23
NO.	REVISION	DATE		
<p>STATE OF MICHIGAN DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET FACILITIES AND BUSINESS SERVICES, ADMINISTRATIVE DESIGN AND CONSTRUCTION DIVISION ADAM LACHT, RA, DIRECTOR</p>				
<p>FILE NO. 49120167.SDW</p>				
FUNDING CODE 171CODHHS7255		CONTRACT NO. Y22003		
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<p>PROJECT TITLE 49120167.SDW - PHASE 500: CENTER FOR FORENSIC PSYCHIATRY - CREATE KITCHEN SALINE, MICHIGAN</p>				
<p>SHEET TITLE MECHANICAL SCHEDULES</p>				
PROJECT NUMBER 2021094		SHEET NUMBER		
PROJECT DATE AUGUST 23, 2023		M7.02		
<p>CHECKED BY WEK</p>				

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PBA-Project No.: 0021094

POWER VENTILATOR SCHEDULE																																				
UNIT IDENTIFICATION	SYSTEM SERVED	TYPE	AIRFLOW CFM	T.S.P. IN. W.G.	TIP SPEED FPM	FAN RPM	MOTOR				CURB HEIGHT INCHES	MODULATION/CONTROL TYPE	ELECTRICAL				MAXIMUM SOUND POWER LEVELS												MODEL NUMBER	KEYED NOTES						
							BHP	HP	RPM	DRIVE TYPE			VOLTS	PHASE	SCCR KA	OPTIONS/ACCESSORIES	UNIT DISCHARGE Lw BY OCTAVE BAND						UNIT INLET Lw BY OCTAVE BAND													
																	63 HZ (DB)	125 HZ (DB)	250 HZ (DB)	500 HZ (DB)	1000 HZ (DB)	2000 HZ (DB)	4000 HZ (DB)	8000 HZ (DB)	63 HZ (DB)	125 HZ (DB)	250 HZ (DB)	500 HZ (DB)			1000 HZ (DB)	2000 HZ (DB)	4000 HZ (DB)	8000 HZ (DB)		
EF-6H	TOILET H126	CENTRIFUGAL	100	0.25	3161	1486	0.01	1/10	1725	DIRECT	18	AUTO	120	1	5	8	---	---	---	---	---	---	---	---	---	---	57	61	58	48	47	48	39	32	G-060-VG	
EF-7H	CHEMICAL STORAGE H129	CENTRIFUGAL	200	0.5	3669	1725	0.03	1/15	1725	DIRECT	18	AUTO	120	1	5	8	---	---	---	---	---	---	---	---	---	---	68	71	69	54	49	47	43	38	G-070-VG	
EF-8H	DISHWASHER HOOD	CENTRIFUGAL	200	0.5	3669	1725	0.03	1/15	1725	DIRECT	18	AUTO	120	1	5	8	---	---	---	---	---	---	---	---	---	---	68	71	69	54	49	47	43	38	G-070-VG	
EF-9H	KITCHEN HOOD	CENTRIFUGAL	3600	1.0	6693	1538	1.39	2	1725	DIRECT	18	AUTO	208	1	5	8	---	---	---	---	---	---	---	---	---	---	78	85	86	84	78	74	71	68	CUE-160-VG	
EF-10H	KITCHEN HOOD	CENTRIFUGAL	5100	1.5	7299	1304	2.53	3	1360	DIRECT	18	AUTO	208	3	5	8	---	---	---	---	---	---	---	---	---	---	93	81	88	74	70	69	67	62	CUE-200-VG	

GENERAL NOTES:
1. REFER TO SCHEDULES GENERAL NOTES.
2. MODEL NUMBERS ARE GREENHECK UNLESS OTHERWISE NOTED.

STEAM HUMIDIFIER SCHEDULE											
UNIT IDENTIFICATION	SYSTEM SERVED	AHU DISTRIBUTION TUBE BANK							MODULATION/CONTROL TYPE	REMARKS	
		QUANTITY REQUIRED	TYPE	MODEL LBS/HR	AHU AIR TEMPERATURE °F	AHU WIDTH INCHES	AHU HEIGHT INCHES	MAXIMUM ABSORPTION DISTANCE INCHES			MODEL
H-1	AHU-21H	1	INSULATED MULTIPLE TUBES	62.8	88.9	78	48	26"	DRISTEEM	AUTO	

NOTE:
1. REFER TO SCHEDULES GENERAL NOTES.
2. MODEL NUMBERS ARE DRISTEEM UNLESS OTHERWISE NOTED.
3. PROVIDE STEAM DISTRIBUTION ASSEMBLY TO AHU MANUFACTURE FOR MOUNTING IN AHU HUMIDIFIER SECTION.

GAS FIRED CONDENSING BOILER SCHEDULE																				
UNIT IDENTIFICATION	TURNDOWN	FUEL		AGA INPUT MBH	AGA OUTPUT MBH	MINIMUM EFFICIENCY (%)	DIMENSIONS			WATER			UNIT CONTROL TYPE	ELECTRICAL				MODEL NUMBER	KEYED NOTES	
		TYPE	MAXIMUM ALLOWABLE OUTPUT AT MINIMUM FIRING RATE (MBH)				DEPTH (IN.)	WIDTH (IN.)	HEIGHT (IN.)	E.W.T. °F	L.W.T. °F	FLOW GPM		MAXIMUM W.P.D. FT. HD.	VOLTS	PHASE	FLA			OPTIONS/ACCESSORIES
B-11	20:1	NAT GAS	100	2000	1800	90	43.6	28	78	90	130	140	7	AUTO	120	1	16	B	BMK2000	
B-12	20:1	NAT GAS	100	2000	1800	90	43.6	28	78	90	130	140	7	AUTO	120	1	16	B	BMK2000	

GENERAL NOTES:
1. REFER TO SCHEDULES GENERAL NOTES.
2. MODEL NUMBERS ARE AERCO UNLESS OTHERWISE NOTED.
3. PROVIDE BOILER WITH CONDENSATE NEUTRALIZATION TANK ASSEMBLY.
4. MINIMUM PRESSURE RATING OF 125 PSIG.

GRILLE, REGISTER, AND DIFFUSER SCHEDULE									
UNIT IDENTIFICATION	TYPE	FACE SIZE	NECK SIZE	FRAME TYPE	ACCESSORY	CONSTRUCTION	FINISH	MODEL NUMBER	KEYED NOTES
S-1	DIFFUSER	24x24	SEE PLANS	LAY-IN	NONE	STEEL	WHITE	500	
R-1	GRILLE	24x24	SEE PLANS	LAY-IN	NONE	ALUMINUM	WHITE	80	
R-2	GRILLE	24x12	SEE PLANS	LAY-IN	NONE	ALUMINUM	WHITE	80	
E-1	GRILLE	12x12	SEE PLAN	LAY-IN	NONE	ALUMINUM	WHITE	80	
E-2	GRILLE	24x24	SEE PLAN	LAY-IN	NONE	ALUMINUM	WHITE	80	
L-1	LOUVER	72x78	SEE PLAN	FLANGED	NONE	ALUMINUM	MILL	ESD-635	1
L-2	LOUVER	66x78	SEE PLAN	FLANGED	NONE	ALUMINUM	MILL	ESD-635	1

GENERAL NOTES:
1. MODEL NUMBERS ARE PRICE UNLESS OTHERWISE NOTED.

KEYED NOTES:
1. MODEL NUMBERS ARE GREENHECK.

HOT WATER CABINET UNIT HEATER SCHEDULE																									
UNIT IDENTIFICATION	CAPACITY MBH	AIR			FAN		WATER			CONTROL VALVE W.P.D. FT. HEAD	DIMENSIONS			RECESS DEPTH INCHES	FILTER TYPE	AREA SQ. FT.	MODULATION/CONTROL TYPE	ELECTRICAL				MODEL NUMBER	KEYED NOTES		
		AREFLOW CFM	E.D.B. °F	L.D.B. °F	HP	RPM	FLOW GPM	FLUID TYPE	E.W.T. °F		L.W.T. °F	MAXIMUM W.P.D. FT. HEAD	LENGTH INCHES					HEIGHT INCHES	DEPTH INCHES	VOLTS	PHASE			SCCR KA	OPTIONS/ACCESSORIES
CUH-3H	19.0	860	60	80.4	1/10	1050	2.8	PG35	130	100	1.5	15	61	44	9.5	9	WASHABLE	3.5	AUTO	120	1	5	B	RC-1200-08	
CUH-4H	19.0	860	60	80.4	1/10	1050	2.8	PG35	130	100	1.5	15	61	44	9.5	9	WASHABLE	3.5	AUTO	120	1	5	B	RC-1200-08	
CUH-5H	30.4	1040	60	86.9	1/10	1050	4.4	PG35	130	100	1.5	15	66	49	9.5	9	WASHABLE	3.5	AUTO	120	1	5	B	RC-1200-10	1
CUH-6H	28.2	845	60	90.8	1/10	1050	4.1	PG35	130	100	1.5	15	61	44	9.5	0	WASHABLE	3.5	AUTO	120	1	5	B	W-1110-08	1

GENERAL NOTES:
1. REFER TO SCHEDULES GENERAL NOTES.
2. MODEL NUMBERS ARE STERLING UNLESS OTHERWISE NOTED.
3. FLUID TYPE: W = WATER, PGXX = PROPYLENE GLYCOL SOLUTION XX PERCENTAGE OF GLYCOL, EDGX = ETHYLENE GLYCOL SOLUTION XX PERCENTAGE OF GLYCOL.

KEYED NOTES:
1. HIGH CAPACITY COIL

HOT WATER PROPELLER FAN UNIT HEATER SCHEDULE																		
UNIT IDENTIFICATION	CAPACITY MBH	AIRFLOW CFM	LEAVING AIR TEMPERATURE °F	FAN		WATER			CONTROL VALVE W.P.D. FT. HEAD	MODULATION/CONTROL TYPE	ELECTRICAL				MODEL NUMBER	KEYED NOTES		
				HP	RPM	FLOW GPM	FLUID TYPE	E.W.T. °F			L.W.T. °F	MAXIMUM W.P.D. FT. HEAD	VOLTS	PHASE			SCCR KA	OPTIONS/ACCESSORIES
UH-8H	12.7	750	104	1/20	1000	1.8	PG35	130	100	0.12	15	AUTO	120	1	---	B	HS-48	
UH-9H	53.0	1800	103	1/12	1000	3.9	PG35	130	100	0.36	15	AUTO	120	1	---	B	HS-108	
UH-10H	53.0	1800	103	1/12	1000	3.9	PG35	130	100	0.36	15	AUTO	120	1	---	B	HS-108	
UH-11H	12.7	750	104	1/20	1000	1.8	PG35	130	100	0.12	15	AUTO	120	1	---	B	HS-48	

GENERAL NOTES:
1. REFER TO SCHEDULES GENERAL NOTES.
2. MODEL NUMBERS ARE STERLING UNLESS OTHERWISE NOTED.
3. FLUID TYPE: W = WATER, PGXX = PROPYLENE GLYCOL SOLUTION XX PERCENTAGE OF GLYCOL, EDGX = ETHYLENE GLYCOL SOLUTION XX PERCENTAGE OF GLYCOL.

HOT WATER FINNED TUBE RADIATION SCHEDULE															
UNIT IDENTIFICATION	CAPACITY BTUH/ LINEAR FT.	ENTERING AIR TEMP °F	FLUID TYPE	WATER TEMP.		ENCLOSURE		ELEMENT				CONTROL VALVE W.P.D. FT. HEAD	MODEL NUMBER	KEYED NOTES	
				E.W.T. °F	AVERAGE °F	TYPE	LENGTH INCHES	HEIGHT INCHES	TUBE DIAMETER INCHES	WIDTH INCHES	HEIGHT INCHES				NUMBER OF TIERS
FTR-1	300	65	W	130	110	SLOPE TOP (LWB-S-LT)	SEE PLANS	14	0.75	4.25	3.63	1	15	C3/4-433-14B	

GENERAL NOTES:
1. MODEL NUMBERS ARE STERLING UNLESS OTHERWISE NOTED.
2. FLUID TYPE: W = WATER, PGXX = PROPYLENE GLYCOL SOLUTION XX PERCENTAGE OF GLYCOL, EDGX = ETHYLENE GLYCOL SOLUTION XX PERCENTAGE OF GLYCOL.

HOT WATER RADIANT CEILING PANEL SCHEDULE											
UNIT IDENTIFICATION	CAPACITY BTUH/ LINEAR FT.	FLUID TYPE	WATER TEMP.		DIMENSIONS		FINISH	CONSTRUCTION	CONTROL VALVE W.P.D. FT. HEAD	MODEL NUMBER	KEYED NOTES
			E.W.T. °F	L.W.T. °F	LENGTH INCHES	WIDTH INCHES					
RCP-1	142	PG35	130	100	SEE PLANS	12	WHITE	STEEL	15	RC-4	

GENERAL NOTES:
1. MODEL NUMBERS ARE RENTAL UNLESS OTHERWISE NOTED.
2. EXTRUDED ARCHITECTURAL SPACE MASTERY SERIES HEF-2 FLUTED.
3. FLUID TYPE: W = WATER, PGXX = PROPYLENE GLYCOL SOLUTION XX PERCENTAGE OF GLYCOL, EDGX = ETHYLENE GLYCOL SOLUTION XX PERCENTAGE OF GLYCOL.

VARIABLE FREQUENCY CONTROLLER SCHEDULE					
UNIT IDENTIFICATION	SYSTEM SERVED	LOCATION	RATED HORSEPOWER	OPERATING HORSEPOWER	REMARKS
VFC-AHU-21H-SF	SF-1	SEE DRAWINGS	15	11.3	PRIMARY
VFC-AHU-21H-RF	RF-1	SEE DRAWINGS	7.5	5.1	PRIMARY
VFC-AHU-22H-SF	SF-2	SEE DRAWINGS	10	7.9	PRIMARY
VFC-EF-9H	EF-9H	SEE DRAWINGS	2	1.4	PRIMARY
VFC-EF-10H	EF-10H	SEE DRAWINGS	3	2.5	BACKUP

NOTE:
1. REFER TO SPECIFICATIONS FOR APPROVED MANUFACTURERS.
2. REFER TO ELECTRICAL WIRING DIAGRAM FOR CONNECTION REQUIREMENTS.

EXPANSION TANK SCHEDULE													
UNIT IDENTIFICATION	SYSTEM SERVED	ESTIMATED TOTAL SYSTEM VOLUME GALLON	TYPE	OPERATING PRESSURE		OPERATING TEMPERATURE		TANK VOLUME GALLON	ACCEPTANCE VOLUME GALLON	DIMENSIONS DIAMETER INCHES	HEIGHT INCHES	MODEL NUMBER	REMARKS
				MINIMUM PSIG	MAXIMUM PSIG	MINIMUM °F	MAXIMUM °F						
ET-1	HWHS	200	BLADDER	16	35	40	140	10	7.43	12	24	B35	

NOTE:
1. MODEL NUMBERS ARE BELL & GOSSETT UNLESS OTHERWISE NOTED.
2. COLD FILL PRESSURE = 12PSI

GLYCOL MAKEUP UNIT SCHEDULE							
UNIT IDENTIFICATION	FLUID TYPE	TANK VOLUME GAL.	FILL PRESSURE PSI	ELECTRICAL		MODEL NUMBER	KEYED NOTES
				VOLTS	PHASE		
GMU-1	PG35	18	15	115	1	GMP SERIES GMP-18	

GENERAL NOTES:
1. MODEL NUMBERS ARE WESSELLS UNLESS OTHERWISE NOTED.
2. FLUID TYPE: W = WATER, PGXX = PROPYLENE GLYCOL SOLUTION XX PERCENTAGE OF GLYCOL, EDGX = ETHYLENE GLYCOL SOLUTION XX PERCENTAGE OF GLYCOL.

AIR & DIRT SEPARATOR SCHEDULE					
INLET/OUTLET PIPE SIZE (INCHES)	MAX SYSTEM FLOW (GPM)	MAX PRESSURE DROP CLEAN (FT. HD)	OPERATING WEIGHT (LBS)	TYPE	MODEL NUMBER
2	35	0.70	66	STANDARD VELOCITY / AIR & DIRT	VDT 200 FA
2 1/2	57	0.75	75	STANDARD VELOCITY / AIR & DIRT	VDT 250 FA
3	100	5.0	178	HIGH VELOCITY / AIR & DIRT	VHT 300 FA
4	220	6.0	186	HIGH VELOCITY / AIR & DIRT	VHT 400 FA
6	650	8.0	336	HIGH VELOCITY / AIR & DIRT	VHT 600 FA
8	1400	9.0	590	HIGH VELOCITY / AIR & DIRT	VHT 800 FA
10	2400	10.0	986	HIGH VELOCITY / AIR & DIRT	VHT 1000 FA
12	3500	12.0	1518	HIGH VELOCITY / AIR & DIRT	VHT 1200 FA

NOTE:
1. MODEL NUMBERS ARE SPIROTERM UNLESS OTHERWISE NOTED.
2. SEPARATOR FLANGE CONNECTION MUST BE A MINIMUM OF THE PIPE DIAMETER SIZE OF WHICH THE SEPARATOR IS INSTALLED.

1	ADDENDUM #3	09/29/23
NO.	REVISION	DATE

STATE OF MICHIGAN
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET
FACILITIES AND BUSINESS SERVICES ADMINISTRATION
DESIGN AND CONSTRUCTION DIVISION
ADAM LACHT, R. DIRECTOR

FILE NO.
491/20167.SDW

FUNDING CODE
171CODHHS7255

CONTRACT NO.
Y22003

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PROJECT TITLE
491/20167.SDW - PHASE 500:
CENTER FOR FORENSIC
PSYCHIATRY - CREATE
KITCHEN
SALINE, MICHIGAN

SHEET TITLE
MECHANICAL SCHEDULES

PROJECT NUMBER
2021094

SHEET NUMBER
M7.04

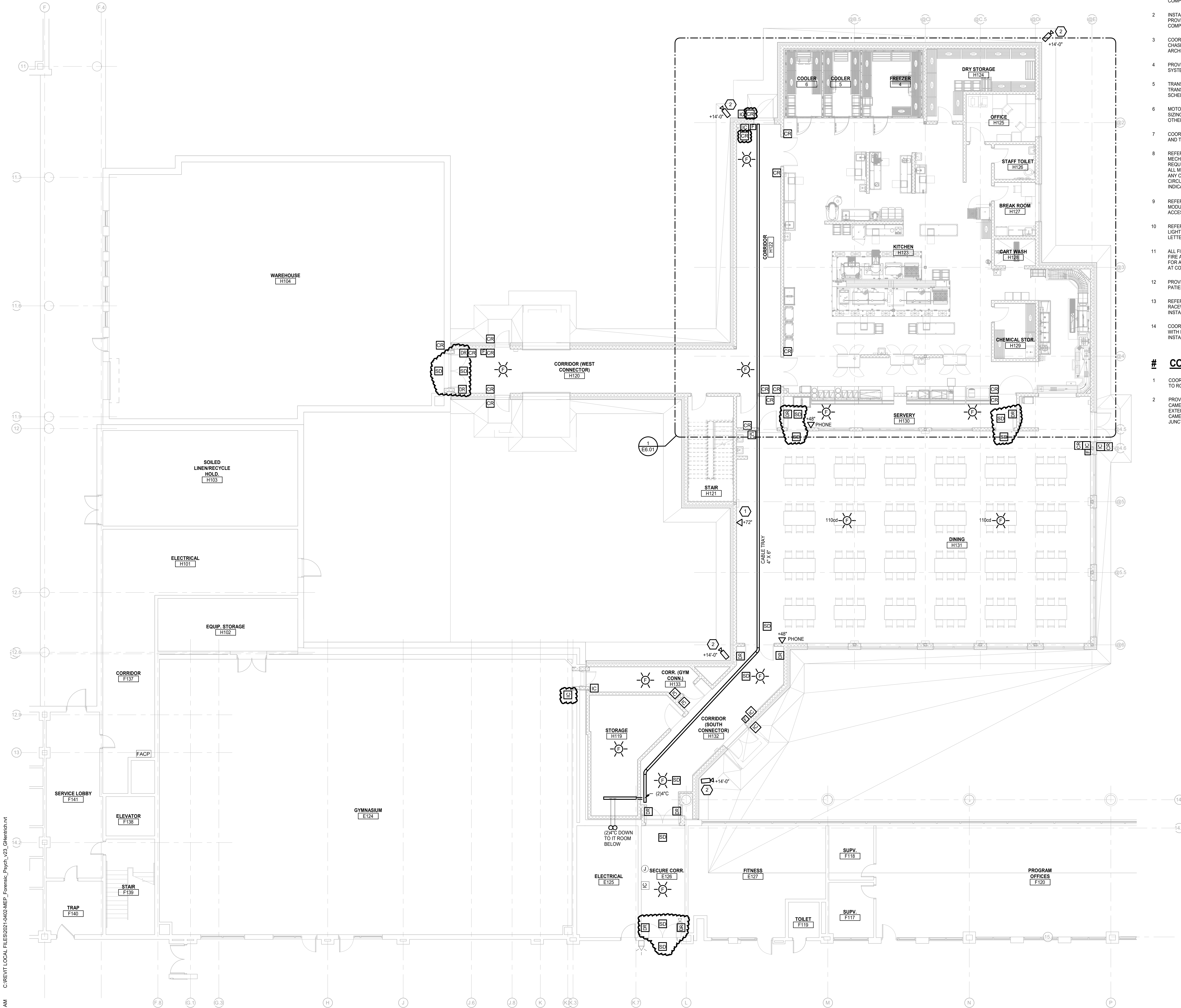
PROJECT DATE
AUGUST 23, 2023

CHECKED BY
WEK

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PBA Project No. 20210942

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THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.



ELECTRICAL GENERAL NOTES:

- 1 THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS. COORDINATE EXACT EQUIPMENT LOCATIONS, ELEVATIONS, AND FINAL CONNECTION REQUIREMENTS. PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS AND OFFSETS.
- 2 INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
- 3 COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
- 4 PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
- 5 TRANSFORMER SECONDARY CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH TRANSFORMER CIRCUIT SIZING SCHEDULE SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
- 6 MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
- 7 COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
- 8 REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.
- 9 REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED FIRE ALARM CONTROL MODULES, DUCT SMOKE DETECTORS, AND MOTOR CONTROLLERS. PROVIDE ALL ACCESSORIES INDICATED.
- 10 REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT CONTROL REQUIREMENTS. DESIGNATION FOR ROOM IS INDICATED AS A LETTERED OVAL SYMBOL.
- 11 ALL FIRE ALARM DEVICES SHALL BE COMPATIBLE WITH EXISTING SIMPLEX GRINNEL 4120 FIRE ALARM SYSTEM. PROVIDE NECESSARY COMPONENTS, MODULES, ETC. AS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM. RE-TEST AND CERTIFY EXISTING FIRE ALARM SYSTEM AT COMPLETION OF PROJECT.
- 12 PROVIDE TAMPER RESISTANT COVER PLATE KENALL WPP SERIES OR EQUAL WHERE PATIENTS WILL HAVE ACCESS TO DEVICES.
- 13 REFER TO SECURITY/TELECOMMUNICATION DRAWINGS FOR FINAL DEVICE LOCATIONS AND RACEWAY REQUIREMENTS. COORDINATE WITH SECURITY REQUIREMENTS WITH INSTALLING TRADES.
- 14 COORDINATE ELECTRICAL REQUIREMENTS DEVICE LOCATIONS AND MOUNTING HEIGHTS WITH KITCHEN EQUIPMENT DRAWINGS, SHOP DRAWINGS AND KITCHEN EQUIPMENT INSTALLER.

CONSTRUCTION KEY NOTES:

- 1 COORDINATE FINAL LOCATION OF TV WITH ARCHITECTURAL DRAWINGS AND TRADES PRIOR TO ROUGH IN.
- 2 PROVIDE SINGLE GANG JUNCTION BOX AT 14'-0" ADJACENT TO EXTERIOR MOUNTED CAMERA. PROVIDE SEAL TIGHT CONDUIT AND ASSOCIATED FITTINGS/SEALS FROM EXTERIOR BOX TO CAMERA HOUSING. COORDINATE FINAL MOUNTING LOCATION WITH CAMERA INSTALLER AND DRAWINGS. PROVIDE 1/4" CONDUIT FROM SINGLE GANG JUNCTION BOX TO CABLE TRAY.

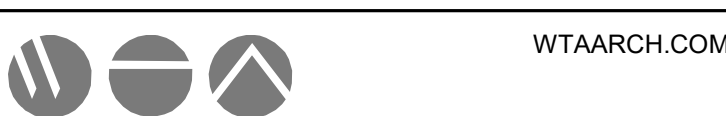
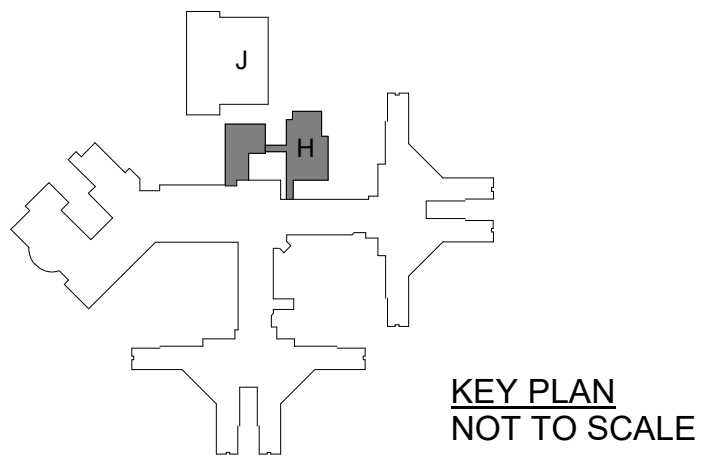
1	ADDENDUM #3	09/29/23
NO.	REVISION	DATE

STATE OF MICHIGAN
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET
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ADAM LACH, RA, DIRECTOR

FILE NO.
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CONTRACT NO.
Y22003



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PROJECT TITLE
491/20167.SDW - PHASE 500:
**CENTER FOR FORENSIC
PSYCHIATRY - CREATE
KITCHEN**
SALINE, MICHIGAN

SHEET TITLE
**FIRST FLOOR AUXILIARY
SYSTEMS PLAN - UNIT H**

PROJECT NUMBER
2021094

SHEET NUMBER

PROJECT DATE
SEPTEMBER 6, 2023

E4.01

CHECKED BY
TLC

FIRST FLOOR AUXILIARY SYSTEMS PLAN - UNIT H
SCALE: 1/8" = 1'-0"

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PBA Project No. 303-0402

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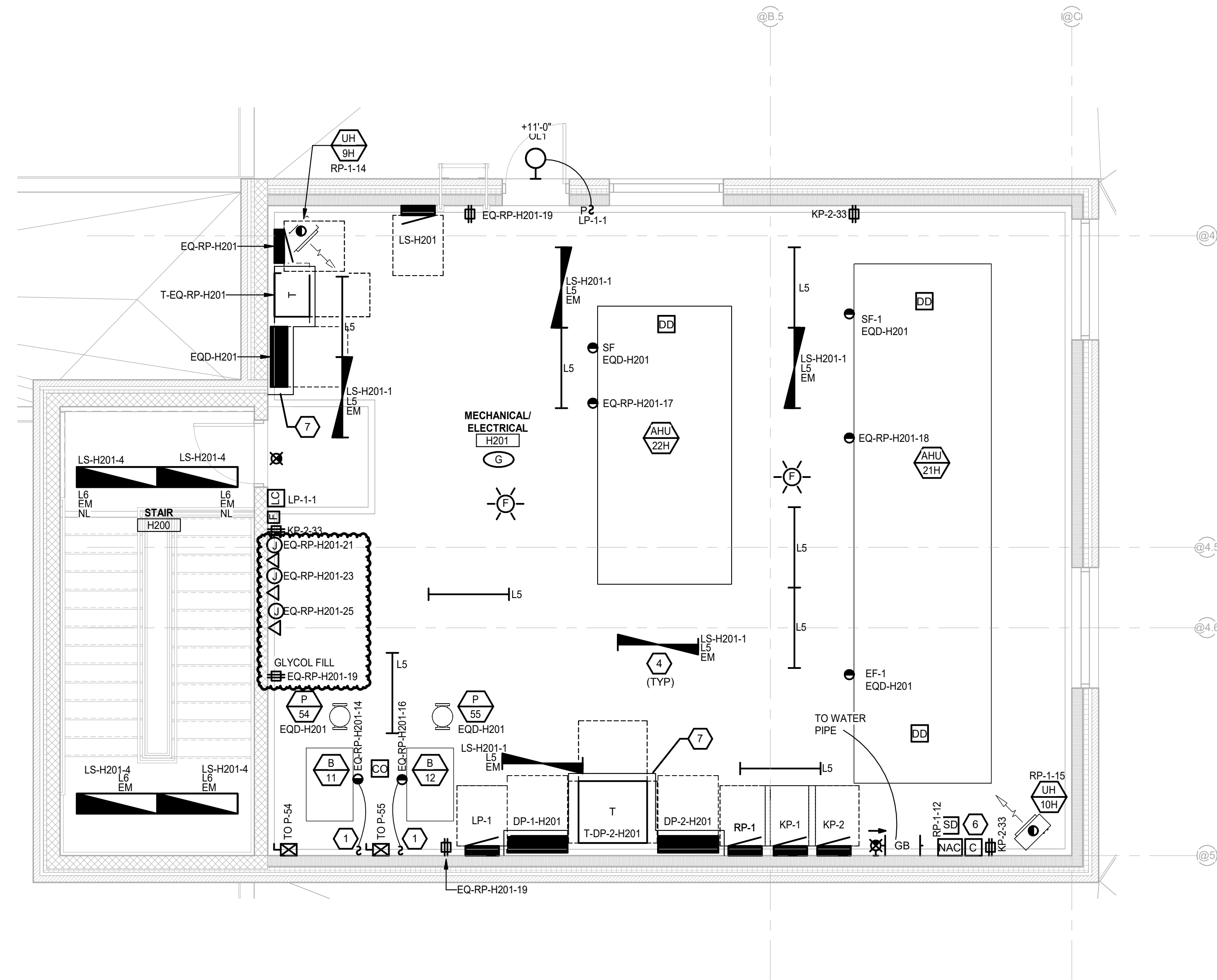
PANELBOARD KP-1																																																																																										
#	LOAD TYPE	DESCRIPTION	CB TYPE	CB	A	B	C	CB	CB TYPE	DESCRIPTION	LOAD TYPE	#																																																																														
1	K	86: FOOD PROCESSOR		20	1200	960		20		85: FOOD PROCESSOR	K	2																																																																														
3	K	84: SLICER		20		672	180	20		69: MIXER, COUNTER	K	4																																																																														
5				20			1439	1199				6																																																																														
7	K	66: MIXER, FLOOR		20	1439	1199		20	GFCI	65: CHILLER/FREEZER, BLAST	K	8																																																																														
9				20		1439	1199	2233	4798			10																																																																														
11				20								12																																																																														
13	K	61: INDUCTION CHARGER	GFCI	20	2233	4798		50		41: UDS SYSTEM	K	14																																																																														
15				20		2233	4798					16																																																																														
17	K	40: FIRE SUPPRESSION...		20			1500	1500	20	40: FIRE SUPPRESSION...	K	18																																																																														
19	K	39: HOOD		20	1500	1500		20		39: HOOD	K	20																																																																														
21				20		396	1428			20: ICE MAKER/BIN	K	22																																																																														
23	K	26: DISPOSER, GARBAGE		15			396	720	15			24																																																																														
25				20	396	720				12: DISPOSER, GARBAGE	K	26																																																																														
27	K	6: COFFEE MAKER		20		1440	720					28																																																																														
29	K	5: CABINET, HEATED PASS-THRU	GFCI	20	1612	1272		20	GFCI	4: DISPLAY, CASE REFRIGERATED	K	30																																																																														
31				20				20	GFCI	4: DISPLAY, CASE REFRIGERATED	K	32																																																																														
33	K	65A: CHILLER/FREEZER, BLAST, EVAP	GFCI	20		240	1800	1799	420	41: UDS SYSTEM FUEL/SHUNT...	K	34																																																																														
35				20						10: SERVING LINE - COLD FOOD	K	36																																																																														
37	K	8: SOILED DISHWASHABLE TRAY CONVEYOR		20	1799	420		20	GFCI	1C: SERVING LINE - COLD FOOD	K	38																																																																														
39				20		1799	420		20	GFCI	1C: SERVING LINE - COLD FOOD	K	40																																																																													
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<table border="0"> <tr> <td>PANELBOARD INFORMATION</td> <td>BRANCH CIRCUIT CONNECTED LOAD</td> <td>DEMAND FACTOR</td> <td>CALCULATED LOAD</td> <td>FEEDER AND OVERCURRENT...</td> <td>NOTES</td> </tr> <tr> <td>VOLTAGE: 208Y/120V</td> <td>CONTINUOUS LOAD (C):</td> <td>0</td> <td>100% 0</td> <td>125% 0</td> <td></td> </tr> <tr> <td>BUS AMPACITY: 225A</td> <td>ELECTRIC HEAT (E)</td> <td>0</td> <td>100% 0</td> <td>125% 0</td> <td></td> </tr> <tr> <td>MAIN TYPE: MLO</td> <td>NON-CONTINUOUS LOAD (NC):</td> <td>0</td> <td>100% 0</td> <td>100% 0</td> <td></td> </tr> <tr> <td>MINIMUM A.I.C.: 10,000</td> <td>KITCHEN LOAD (K):</td> <td>58702.19</td> <td>65.00% 38156.42</td> <td>100% 38156.42</td> <td></td> </tr> <tr> <td>MOUNTING: SURFACE</td> <td>RECEPT BASE LOAD (R):</td> <td>0</td> <td>100% 0</td> <td>100% 0</td> <td></td> </tr> <tr> <td></td> <td>RECEPT DEMAND LOAD (R):</td> <td>0</td> <td>50% 0</td> <td>100% 0</td> <td></td> </tr> <tr> <td></td> <td>LIGHTING LOAD (L):</td> <td>0</td> <td>100% 0</td> <td>125% 0</td> <td></td> </tr> <tr> <td></td> <td>ADDITIONAL TRACK LIGHTING...</td> <td>0</td> <td>100% 0</td> <td>100% 0</td> <td></td> </tr> <tr> <td></td> <td>MOTORS, HIGHEST LOAD (M):</td> <td>0</td> <td>125% 0</td> <td>100% 0</td> <td></td> </tr> <tr> <td></td> <td>MOTORS, REMAINING</td> <td>0</td> <td>100% 0</td> <td>100% 0</td> <td></td> </tr> <tr> <td>PANELBOARD LOCATION</td> <td>MOTORS, REMAINING</td> <td>0</td> <td>100% 0</td> <td>100% 0</td> <td></td> </tr> <tr> <td colspan="2">NOTE: DEMAND AND SIZING INFORMATION IS CALCULATED...</td> <td>TOTAL (kVA): 38.16</td> <td>TOTAL... 105.91</td> <td>TOTAL... 105.91</td> <td></td> </tr> </table>													PANELBOARD INFORMATION	BRANCH CIRCUIT CONNECTED LOAD	DEMAND FACTOR	CALCULATED LOAD	FEEDER AND OVERCURRENT...	NOTES	VOLTAGE: 208Y/120V	CONTINUOUS LOAD (C):	0	100% 0	125% 0		BUS AMPACITY: 225A	ELECTRIC HEAT (E)	0	100% 0	125% 0		MAIN TYPE: MLO	NON-CONTINUOUS LOAD (NC):	0	100% 0	100% 0		MINIMUM A.I.C.: 10,000	KITCHEN LOAD (K):	58702.19	65.00% 38156.42	100% 38156.42		MOUNTING: SURFACE	RECEPT BASE LOAD (R):	0	100% 0	100% 0			RECEPT DEMAND LOAD (R):	0	50% 0	100% 0			LIGHTING LOAD (L):	0	100% 0	125% 0			ADDITIONAL TRACK LIGHTING...	0	100% 0	100% 0			MOTORS, HIGHEST LOAD (M):	0	125% 0	100% 0			MOTORS, REMAINING	0	100% 0	100% 0		PANELBOARD LOCATION	MOTORS, REMAINING	0	100% 0	100% 0		NOTE: DEMAND AND SIZING INFORMATION IS CALCULATED...		TOTAL (kVA): 38.16	TOTAL... 105.91	TOTAL... 105.91	
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	MOTORS, HIGHEST LOAD (M):	0	125% 0	100% 0																																																																																						
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PANELBOARD LOCATION	MOTORS, REMAINING	0	100% 0	100% 0																																																																																						
NOTE: DEMAND AND SIZING INFORMATION IS CALCULATED...		TOTAL (kVA): 38.16	TOTAL... 105.91	TOTAL... 105.91																																																																																						

PANELBOARD KP-2																																																																																										
#	LOAD TYPE	DESCRIPTION	CB TYPE	CB	A	B	C	CB	CB TYPE	DESCRIPTION	LOAD TYPE	#																																																																														
1				20	0	0		20		SPARE		2																																																																														
3				20	0	0		20		SPARE		4																																																																														
5				20			0	0	20			6																																																																														
7				20	0	0		0	20			8																																																																														
9	R	RECEPTS: H123,H125		20		1080	0					10																																																																														
11	R	RECEPTS: H124,H126,H127		20			1080	1260		RECEPTS:H123,H127	R	12																																																																														
13	R	RECEPTS:H123,H124		20	900	900		20		RECEPTS:H123	R	14																																																																														
15	R	RECEPTS:H123,H124		20		720	1272		20	KITCHEN COUNTERTOP	K	16																																																																														
17	C	REFRIGERATOR:H112	GFCI	20			1200	1500	20	COFFEE:H112	NC	18																																																																														
19	NC	MICROWAVE:H112		20	1500	1200		20		GARBAGE DISPOSAL:H112	NC	20																																																																														
21				20		0	0					22																																																																														
23				20			0	0	20			24																																																																														
25				20	0	1654			20	GFCI	1B:SERVING LINE - HOT/COLD FOOD COMBO	K	26																																																																													
27	K	1BA: SERVING LINE - HC FOOD...	GFCI	20		420	1654	1654	20	GFCI	1A:SERVING LINE - HOT FOOD	K	28																																																																													
29	K	1A:SERVING LINE - HOT FOOD	GFCI	20			1654	1654	20	GFCI	1A:SERVING LINE - HOT FOOD	K	30																																																																													
31				20	1654	1654						32																																																																														
33	R	ROOF MECH/ELEC ROOM RECEPTS		20		1080	0		20			34																																																																														
35				20			0	0	20			36																																																																														
37				20	0	0			20			38																																																																														
39				20		0	0		20			40																																																																														
41				20			0	0	20			42																																																																														
					9461	6229		8347																																																																																		
					0A	0B	0C																																																																																			
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PANELBOARD RP-1																																																																																										
#	LOAD TYPE	DESCRIPTION	CB TYPE	CB	A	B	C	CB	CB TYPE	DESCRIPTION	LOAD TYPE	#																																																																														
1	R	RECEPTS: H119,H131,EXT. ROOF		20	1260			20		RECEPTS: H131,H132,H133,EXT	R	2																																																																														
3	R	RECEPTS: H131,H120		20		1080	1080	20		RECEPTS: H107,H130,H131,EXT	R	4																																																																														
5				20			360	0	20			6																																																																														
7				20	0	0			20			8																																																																														
9				20			0	600	20			10																																																																														
11	M	SOUTH OVERHEAD DOOR: H20		20			600	1000	20			12																																																																														
13	M	UH-8H: H201		15	528	528		15		UH-9H: H201	M	14																																																																														
15	M	UH-10H: H201		15		528	528	15		CUH-5H: H120	M	16																																																																														
17	M	CUH-6H: H121		15			528	528	15	CUH-3H: H132	M	18																																																																														
19				15	528	528		15		EF-5H: ROOF	M	20																																																																														
21				20			0	528	15	EF-7H: ROOF	M	22																																																																														
23				20			0	528	15	EF-8H: ROOF	M	24																																																																														
25	M	CUH-11H: H119		15	528	0		20				26																																																																														
27				20			0	0	20			28																																																																														
29				20			0	0	20			30																																																																														
31				20	0	0			20			32																																																																														
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41				20			0	0	20			42																																																																														
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PANELBOARD LS-H201																									
#	LOAD TYPE	DESCRIPTION	CB TYPE	CB	A	B	C	CB	CB TYPE	DESCRIPTION	LOAD TYPE	#													
1	L	LIGHTING EM LIGHTS		20	1924	280		20		EXTERIOR BUILDING MOUNTED...	L	2													
3				20		0	368	20		LIGHTING STAIR H121	L	4													
5				20			0	0	20			6													
7				20	0	0		20		SPARE		8													
9				20		0	0		20			10													
11				20			0	0	20			12													
13				20	0	0		20		SPARE		14													
15				20		0	0		20			16													
17				20			0	0	20			18													
19				20	0	0		20		SPARE		20													
21				20		0	0		20			22													
23				20			0	0	20			24													
25				20	0	0		20		SPARE		26													
27				20		0	0		20			28													
29				20			0	0	20			30													
31				20	0	0		20		SPARE		32													
33				20		0	0		20			34													
35				20			0	0	20			36													
37				20	0	0		20		SPARE		38													
39				20		0	0		20			40													
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					2204	368		0																	
					0A	0B	0C																		
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THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.



PENTHOUSE ELECTRICAL ENLARGED PLAN
SCALE: 1/4" = 1'-0"

ELECTRICAL GENERAL NOTES:

- THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS. COORDINATE EXACT EQUIPMENT LOCATIONS, ELEVATIONS, AND FINAL CONNECTION REQUIREMENTS. PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS AND OFFSETS.
- INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
- COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
- PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
- TRANSFORMER SECONDARY CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH TRANSFORMER CIRCUIT SIZING SCHEDULE SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
- MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
- COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
- REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.
- REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED FIRE ALARM CONTROL MODULES, DUCT SMOKE DETECTORS, AND MOTOR CONTROLLERS. PROVIDE ALL ACCESSORIES INDICATED.
- REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT CONTROL REQUIREMENTS. DESIGNATION FOR ROOM IS INDICATED AS A LETTERED OVAL SYMBOL.
- ALL FIRE ALARM DEVICES SHALL BE COMPATIBLE WITH EXISTING SIMPLEX GRINNEL 4120 FIRE ALARM SYSTEM. PROVIDE NECESSARY COMPONENTS, MODULES, ETC. AS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM. RE-TEST AND CERTIFY EXISTING FIRE ALARM SYSTEM AT COMPLETION OF PROJECT.
- PROVIDE TAMPER RESISTANT COVER PLATE KENALL WPP SERIES OR EQUAL WHERE PATIENTS WILL HAVE ACCESS TO DEVICES.
- REFER TO SECURITY/TELECOMMUNICATION DRAWINGS FOR FINAL DEVICE LOCATIONS AND RACEWAY REQUIREMENTS. COORDINATE WITH SECURITY REQUIREMENTS WITH INSTALLING TRADES.
- COORDINATE ELECTRICAL REQUIREMENTS DEVICE LOCATIONS AND MOUNTING HEIGHTS WITH KITCHEN EQUIPMENT DRAWINGS, SHOP DRAWINGS AND KITCHEN EQUIPMENT INSTALLER.

CONSTRUCTION KEY NOTES:

- PROVIDE TOGGLE SWITCH LOCK GUARD FOR BOILER DISCONNECT LOCKING MEANS.
- PROVIDE INTERWIRE TO CONTROL PANEL. COORDINATE WITH FOOD SERVICE INSTALLER AND INSTALLATION INSTRUCTIONS.
- COORDINATE FINAL LOCATION OF TV WITH ARCHITECTURAL DRAWINGS AND TRADES PRIOR TO ROUGH IN.
- INSTALL BOTTOM OF LIGHT FIXTURE AT 8'-0" AFF.
- ROUTE BRANCH CIRCUIT IN FLOOR AND STUB UP TO FINAL LOCATION. COORDINATE FINAL LOCATION WITH FOOD SERVICE DRAWINGS AND TRADES.
- MATCH ON-OFF TIMES WITH EXISTING SITE LIGHTING. COORDINATE EXACT TIMES WITH OWNER. CONNECT PHOTO CELL CONTROL TO EXISTING MAIN BUILDING PHOTO CELL WIRING/CONTROL.
- 4" HOUSEKEEPING PAD.
- LINE VOLTAGE CLOCK STANDARD ELECTRIC TIME FARADAY 2384 OR OTHER CLOCK COMPATABLE WITH EXISTING SYSTEM. EXTEND WIRING FROM EXISTING CLOCK HEAD END SYSTEM AS REQUIRED.

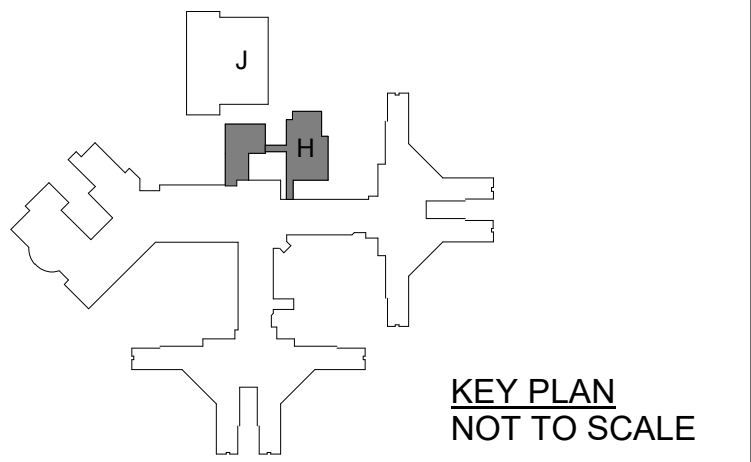
1	ADDENDUM #3	09/29/23
NO.	REVISION	DATE

STATE OF MICHIGAN
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET
FACILITIES AND BUSINESS SERVICES ADMINISTRATION
DESIGN AND CONSTRUCTION DIVISION
ADAM LACH, R.A. DIRECTOR

FILE NO.
491/20167.SDW

FUNDING CODE
171CODHHS7255

CONTRACT NO.
Y22003



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Saginaw, Michigan 48607
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PROJECT TITLE
491/20167.SDW - PHASE 500:
**CENTER FOR FORENSIC
PSYCHIATRY - CREATE
KITCHEN**
SALINE, MICHIGAN

SHEET TITLE
**ELECTRICAL ENLARGED
PLAN**

PROJECT NUMBER 2021094	SHEET NUMBER
PROJECT DATE SEPTEMBER 6, 2023	E6.02
CHECKED BY TLC	

PBA
Peter Basso Associates Inc
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48068-3276
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Fax: 248-879-0007
www.PeterBassoAssociates.com
PBA Project No. 303-0402