



# AIA<sup>®</sup> Document G710<sup>™</sup> – 2017

## Architect's Supplemental Instructions

**PROJECT: (name and address)**

Center for Forensic Psychiatry - Construct  
Kitchen  
8303 Platt Rd, Saline, MI 48176

**CONTRACT INFORMATION:**

Contract For: Construction

Date: 11-14-2023

**ASI INFORMATION:**

ASI Number: 2

Date: 02-17-2025

**OWNER: (name and address)**

The Michigan Department of Technology,  
Management & Budget  
320 S. Walnut Street, 2<sup>nd</sup> Floor,  
Lansing, MI 48909

**ARCHITECT: (name and address)**

WTA Architects  
100 S. Jefferson Avenue, Suite 601  
Saginaw, MI. 48607

**CONTRACTOR: (name and address)**

Antler Construction Company, Inc  
588 N Canton Center Rd #105  
Canton, MI 48187

The Contractor shall carry out the Work in accordance with the following supplemental instructions without change in Contract Sum or Contract Time. Proceeding with the Work in accordance with these instructions indicates your acknowledgment that there will be no change in the Contract Sum or Contract Time.

*(Insert a detailed description of the Architect's supplemental instructions and, if applicable, attach or reference specific exhibits.)*

**MECHANICAL**

Item M1: Reference Sheet M2.01 (Re-Issued)

Added 3/4" HWH (140) routing from kitchen to main per RFI #61.

Item M2: Reference Sheet M3.01 (Re-issued)

Moved cabinet unit heater (CUH) 6H to opposite side of stairwell as indicated.

**ELECTRICAL**

Item E1: Reference Sheet E0.02 (Re-Issued)

Removed the 2 houring rating wiring column to align with existing building and new addition construction.

Item E2: Reference Sheet E3.01 (Re-Issued)

Added note on drawing that the existing building area is fully sprinklered.

**ISSUED BY THE ARCHITECT:**

WTA Architects

**ARCHITECT (Firm name)**

*Cariann Davitt Schartow*

**SIGNATURE**

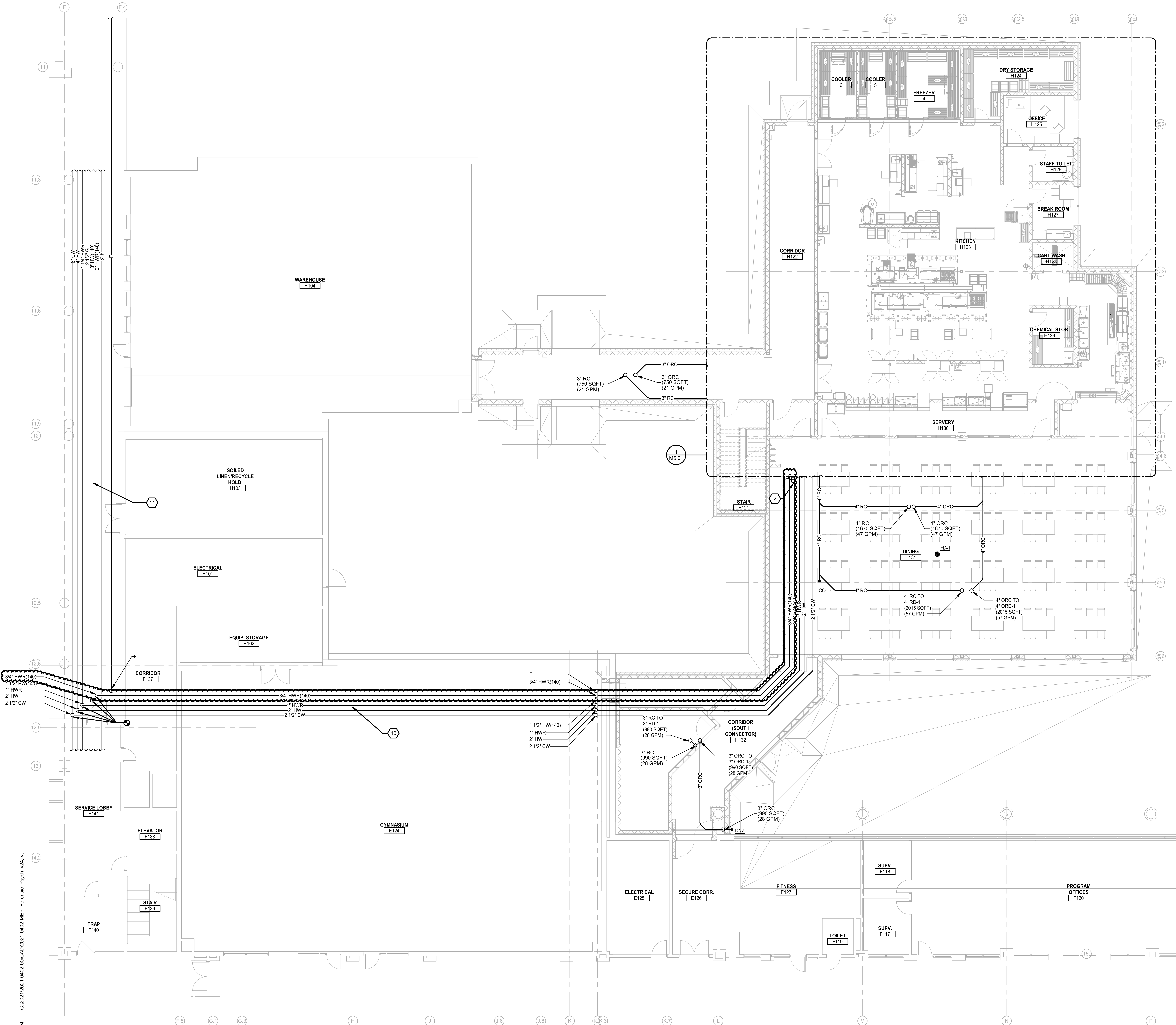
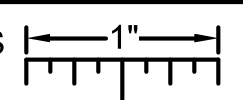
Cariann Davitt Schartow, Project Manager

**PRINTED NAME AND TITLE**

02-18-2025

**DATE**

THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.



**FIRE PROTECTION 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.
- NO SPRINKLER PIPING SHALL BE ROUTED THROUGH ELECTRICAL EQUIPMENT ROOMS, TELECOMMUNICATION EQUIPMENT ROOMS, ELEVATOR EQUIPMENT ROOMS OR SIMILAR ROOMS. ONLY SPRINKLER PIPING SERVING SPRINKLER HEADS IN THOSE ROOMS SHALL BE ALLOWED.
- PIPING SHALL NOT BE INSTALLED ABOVE ELECTRICAL TRANSFORMERS, SWITCHBOARDS, PANELBOARDS OR MOTOR CONTROL CENTERS.
- MINIMUM RUN-OUT PIPE SIZE TO SPRINKLER HEADS SHALL BE 1".
- PROVIDE AN AUTOMATIC WET PIPE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13 <<<LIGHT HAZARD>>> CLASSIFICATION. HYDRAULIC CALCULATIONS SHALL BE BASED ON DENSITY OF <<<0.10>>> GPM/SQ. FT. OVER THE MOST REMOTE <<<1500>>> SQ. FT.
- ACCORDING TO THE MOST RECENT FLOW TEST INFORMATION, THE STATIC PRESSURE AVAILABLE AT THE CITY WATER MAIN AT THE STREET IS <<<30>>> PSIG. RESIDUAL PRESSURE WITH <<<000>>> GPM FLOWING IS <<<XX>>> PSIG. CONTRACTOR SHALL MAKE HIS OWN PRESSURE AND FLOW TEST PRIOR TO SYSTEM DESIGN.
- FIRE PROTECTION WATER SERVICE ENTRANCE PIPING SHALL BE BURIED WITH DEPTH OF COVER OVER TOP OF PIPE OF AT LEAST <<<72>>>, OR WITH TOP OF PIPE AT LEAST 12" BELOW LEVEL OF MAXIMUM FROST PENETRATION, OR AS REQUIRED BY AUTHORITIES HAVING JURISDICTION, WHICHEVER IS DEEPEST.

**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.

4	ASI NO.2	02/17/25
2	STATE REVIEW SET	12/20/23
1	ADDENDUM #3	09/29/23
NO.	REVISION	DATE



FILE NO.

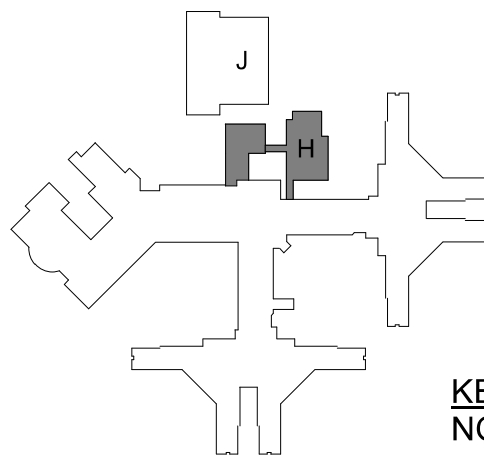
491/20167.SDW

FUNDING CODE

171CODHHS7255

CONTRACT NO.

Y22003



KEY PLAN  
NOT TO SCALE



**WTA ARCHITECTS**

100 S. Jefferson Ave., Suite 601  
Saginaw, Michigan 48607  
989 752 8107

COPYRIGHT © 2023

PROJECT TITLE  
491/20167.SDW - PHASE 500:

**CENTER FOR FORENSIC  
PSYCHIATRY - CREATE  
KITCHEN**

SALINE, MICHIGAN

SHEET TITLE

**FIRST FLOOR PLUMBING  
AND FIRE PROTECTION  
PLAN - UNIT H**

PROJECT NUMBER

2021094

SHEET NUMBER

PROJECT DATE

SEPTEMBER 6, 2023

CHECKED BY

WEK

**M2.01**



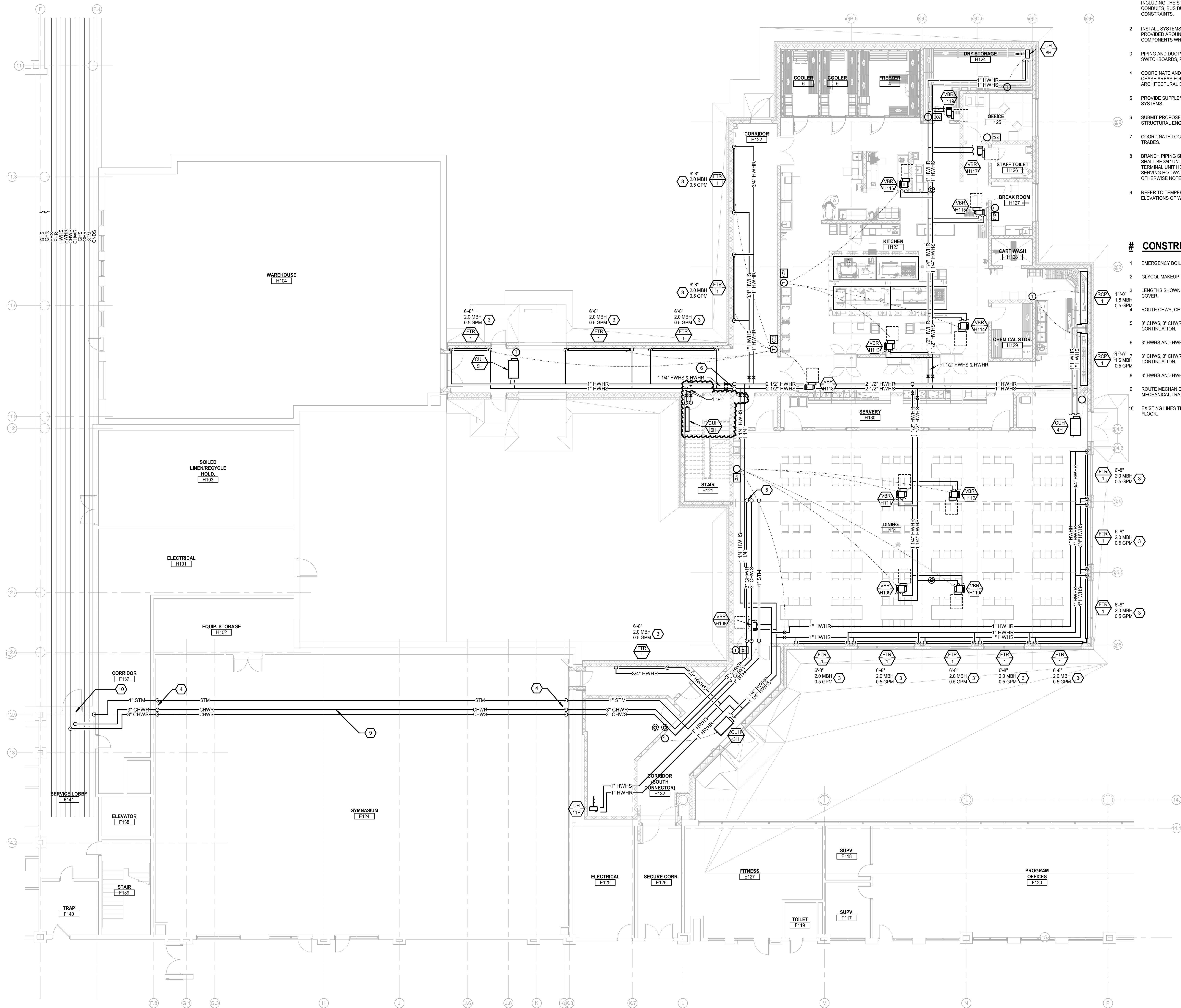
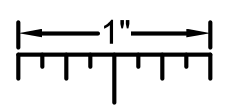
**Peter Basso Associates Inc.**  
CONSULTING ENGINEERS  
5145 Livernois, Suite 100  
Troy, Michigan 48068-3276  
Tel: 248-879-5666  
Fax: 248-879-0007  
www.PeterBassoAssociates.com  
PBA Project No. 3021-0402



**FIRST FLOOR PLUMBING AND FIRE PROTECTION PLAN - UNIT H**  
SCALE: 1/8" = 1'-0"



THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.



**HVAC PIPING GENERAL NOTES:**

- 1 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.
- 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 AND DUCTWORK 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 SUBMIT PROPOSED METHODS OF ANCHORING AND GUIDING PIPING SYSTEMS TO STRUCTURAL ENGINEER FOR APPROVAL.
- 7 COORDINATE LOCATION OF DUCT-MOUNTED HYDRONIC DEVICES WITH SHEET METAL TRADES.
- 8 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.
- 9 REFER TO TEMPERATURE CONTROLS STANDARD MOUNTING HEIGHTS DETAIL FOR ELEVATIONS OF WALL MOUNTED TEMPERATURE CONTROL DEVICES.

**# CONSTRUCTION KEY NOTES:**

- 1 EMERGENCY BOILER SHUT OFF
- 2 GLYCOL MAKEUP UNIT
- 3 LENGTHS SHOWN ARE ACTIVE ELEMENT LENGTH. CONTRACTOR TO SUPPLY FULL LENGTH COVER.
- 4 ROUTE CHWS, CHWR, AND STEAM UP TO CEILING SPACE AND ROUTE THROUGH JOIST SPACE.
- 5 3" CHWS, 3" CHWR, 1" STEAM UP TO PENTHOUSE. REFER TO SHEET M3.03 FOR CONTINUATION.
- 6 3" HWHS AND HWHR UP TO PENTHOUSE. REFER TO SHEET M3.03 FOR CONTINUATION.
- 7 3" CHWS, 3" CHWR, 1" STEAM DOWN TO FIRST FLOOR. REFER TO SHEET M3.01 FOR CONTINUATION.
- 8 3" HWHS AND HWHR DOWN TO FIRST FLOOR. REFER TO SHEET M3.01 FOR CONTINUATION.
- 9 ROUTE MECHANICAL PIPING IN CEILING SPACE OF GYM. COORDINATE FINAL ROUTING WITH MECHANICAL TRADES.
- 10 EXISTING LINES THAT NEW MECHANICAL PIPING WILL TIE INTO ARE LOCATED ON SECOND FLOOR.

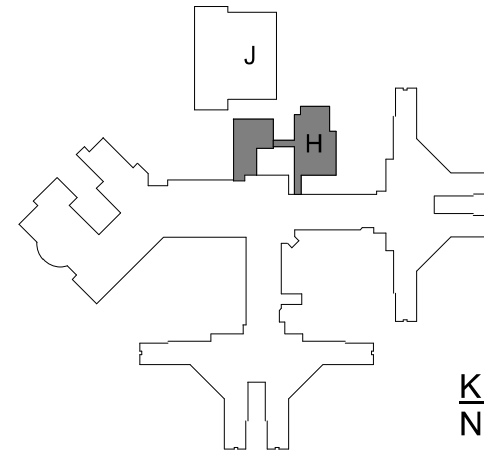
4	ASI NO.2	02/17/25
2	STATE REVIEW SET	12/20/23
1	ADDENDUM #3	09/29/23
NO.	REVISION	DATE

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

FILE NO.  
491/20167.SDW

FUNDING CODE  
171CODHHS7255

CONTRACT NO.  
Y22003



KEY PLAN  
NOT TO SCALE



**WTA ARCHITECTS**

100 S. Jefferson Ave., Suite 601  
Saginaw, Michigan 48607  
989 752 8107

COPYRIGHT © 2023

PROJECT TITLE  
491/20167.SDW - PHASE 500:

**CENTER FOR FORENSIC  
PSYCHIATRY - CREATE  
KITCHEN**

SALINE, MICHIGAN

SHEET TITLE  
**FIRST FLOOR HVAC PIPING  
PLAN - UNIT H**

PROJECT NUMBER  
**2021094**

PROJECT DATE  
**SEPTEMBER 6, 2023**

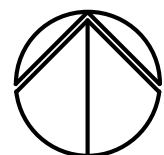
CHECKED BY  
**WEK**

SHEET NUMBER

**M3.01**



**Peter Basso Associates Inc.**  
CONSULTING ENGINEERS  
5145 Livernois, Suite 100  
Troy, Michigan 48068-3276  
Tel: 248-879-5666  
Fax: 248-879-0007  
www.PeterBassoAssociates.com  
PBA Project No. 3021-0922



**FIRST FLOOR HVAC PIPING PLAN - UNIT H**  
SCALE: 1/8" = 1'-0"

NOTE: SOME SYMBOLS AND ABBREVIATIONS SHOWN MAY NOT APPLY TO THIS PROJECT

DRY TYPE DISTRIBUTION TRANSFORMER CIRCUIT SIZING SCHEDULE							
TRANSFORMER KVA	PRIMARY (480V)		SECONDARY (208Y/120 VOL.T)				KEYED NOTES
	OVERCURRENT PROTECTION	OVERCURRENT PROTECTION	CONDUCTOR SIZE (AWG OR KCMIL)			GROUNDING ELECTRODE CONDUCTOR	
			PHASE & NEUTRAL	SUPPLY SIDE BONDING JUMPER	CONDUIT (4W + SSBJ)		
COPPER	COPPER	COPPER					
9	20A	30A	10	8	3/4"	8	
15	25A	60A	6	8	1"	8	1
30	45A	100A	3	8	1 1/4"	8	1
45	70A	175A	2/0	4	2"	4	
75	125A	300A/225A	350 / 4/0	2	3"	2	2
112 1/2	175A	400A	600	1/0	3 1/2"	1/0	
150	225A	600A	2-350	2-2	2-3"	2/0	
225	350A	800A	2-600	2-1/0	2-3 1/2"	3/0	
300	500A	1200A	3-600	3-1/0	3-3 1/2"	3/0	
500	800A	1600A	4-600	4-1/0	4-3 1/2"	3/0	

- GENERAL NOTES:
- TRANSFORMERS AND FEEDERS ARE BASED ON 480 VOLT, 3 PHASE, 3 WIRE PRIMARY AND 208Y/120 VOLT, 3 PHASE, 4 WIRE, SECONDARY.
  - ALUMINUM CONDUCTORS ARE PERMITTED ONLY IF INCLUDED IN FEEDER AND BRANCH CIRCUIT SIZING SCHEDULE.
  - PRIMARY OVERCURRENT PROTECTION IS SIZED AT 125% OF TRANSFORMER FULL LOAD CURRENT. PROVIDE PRIMARY OVERCURRENT DEVICE SELECTION TO ALLOW TRANSFORMER IN-RUSH CURRENT AND PROTECT BASED ON THE ANSI DAMAGE CURVE. IF MANUFACTURER REQUIRES PRIMARY OVERCURRENT GREATER THAN 125% (NOT TO EXCEED 250%) THEN PRIMARY FEEDER SHALL BE INCREASED ACCORDINGLY.
  - SECONDARY CONDUCTOR BASED ON TEN FOOT MAXIMUM LENGTH (NEC 240.21(C)(2)). IF CONDUCTORS ARE LONGER THAN TEN FOOT, REQUIREMENTS IN NEC 240.21(C)(8) MUST BE MET. IN NO CASE SHALL CONDUCTORS BE LONGER THAN TWENTY-FIVE FEET.

- KEYED NOTES:
- CONDUCTORS ARE BASED ON 90°C, 600V, INSULATED WIRE APPLIED AT 75°C FOR TERMINATION RATED 60/75°C OR 75°C.
  - THE SMALLER SIZE IS TO BE USED TO FEED 225A PANELBOARDS.

BRANCH CIRCUIT VOLTAGE DROP WIRING SCHEDULE FOR SINGLE PHASE CIRCUITS						
BRANCH CIRCUIT RATING (A)	WIRE SIZE (AWG)	MAXIMUM BRANCH CIRCUIT LENGTH (IN FEET)				
		120V	208V	240V	277V	480V
20A	12	143	143	165	191	331
20A	10	128	222	256	295	511
20A	8	201	348	402	464	804
20A	6	313	542	625	721	1250
30A	10	85	148	170	197	341
30A	8	134	232	268	309	536
30A	6	208	361	417	481	833
30A	4	313	542	625	721	1250

- GENERAL NOTES:
- THE ABOVE TABLE VALUES ARE BASED ON COPPER CONDUCTORS, IN STEEL CONDUIT, WITH A LOAD POWER FACTOR OF 0.85 PER NEC CHAPTER 9, TABLE 9.
  - PROVIDE BRANCH CIRCUIT CONDUCTORS AS INDICATED IN THE TABLE ABOVE FOR ALL LIGHTING AND RECEPTACLE BRANCH CIRCUITS. WHERE BRANCH CIRCUITS SERVE DEDICATED EQUIPMENT, THE CONTRACTOR MAY PERFORM VOLTAGE DROP CALCULATIONS BASED ON ACTUAL EQUIPMENT CONNECTED LOAD AND PROVIDE CONDUCTORS APPROPRIATELY SIZED TO LIMIT VOLTAGE DROP TO A MAXIMUM OF 3%.
  - CONDUCTOR SIZES ARE BASED ON MAXIMUM OF 9 CURRENT CARRYING CONDUCTORS IN A SINGLE CONDUIT.
  - LIMITS FOR CONDUCTOR LENGTHS SHOWN ARE BASED ON A MAXIMUM BRANCH CIRCUIT LOADING OF 64% OF THE BRANCH BREAKER RATING AND A MAXIMUM OF 3 PERCENT VOLTAGE DROP TO COMPLY WITH ASHRAE 90.1 AND THE NEC. FOR CIRCUITS LOADED GREATER THAN 64% OF BRANCH BREAKER RATING, THE CONTRACTOR SHALL PROVIDE CONDUCTORS APPROPRIATELY SIZED TO LIMIT VOLTAGE DROP TO 3%.

MOTOR CIRCUIT SIZING SCHEDULE (480V, 3 PHASE)				
MOTOR HP	SWITCH/FUSE	CIRCUIT BREAKER	STARTER SIZE/TYPE	MOTOR DISCONNECT (NOTE 3)
1/2	30/3A	15A	1	30A
3/4	30/3A	15A	1	30A
1	30/6A	15A	1	30A
1 1/2	30/6A	15A	1	30A
2	30/6A	15A	1	30A
3	30/10A	15A	1	30A
5	30/15A	15A	1	30A
7 1/2	30/20A	20A	1	30A
10	30/20A	25A	1	30A
15	30/30A	40A	2	30A
20	60/40A	60A	2	60A
25	60/50A	70A	2	60A
30	60/60A	80A	3	60A
40	100/80A	90A	3	100A
50	100/100A	100A	3	100A
60	200/125A	125A	4	200A
75	200/150A	150A	4	200A
100	200/200A	200A	4	200A
125	200/200A	225A	5	200A
150	400/250A	250A	5	400A
200	400/350A	350A	5	400A

- GENERAL NOTES:
- BASED ON MOTOR FULL LOAD AMPERES AS PROVIDED BY THE N.E.C.
  - BASED ON MOTOR RUNNING OVERLOAD PROTECTIONS PROVIDED BY THERMAL OVERLOAD RELAYS.
  - WHERE THE STARTER IS LOCATED REMOTE FROM THE MOTOR, PROVIDE DISCONNECT LOCATED AT THE MOTOR, SIZE AS INDICATED.

SPECIAL RECEPTACLES	
TYPE	DESCRIPTION
Type 4	250V, 20A, THREE PHASE, LOCKING RECEPTACLE, 3 POLE, 4 WIRE (NEMA L15-20R)
Type 8	125/250V SINGLE PHASE RECEPTACLE, 3 POLE, 4 WIRE (NEMA 14-20R)

RACEWAY / CONDUCTOR / CABLE APPLICATION...									
	WIRE		RACEWAY				CABLE/CORD		
	COPPER, TYPE THHN/TW/THW-2	COPPER, TYPE XHHW-2	ELECTRICAL METALLIC TUBING (EMT)	RIGID STEEL CONDUIT (RSC)	HIGH DENSITY POLYETHYLENE (HDPE) SCHEDULE 40	FLEXIBLE METAL CONDUIT (FMC)	LIQUID TIGHT FLEXIBLE METAL CONDUIT (LFMC)	METAL LAD TYPE CABLE WITH INSULATED GROUND WIRE (TYPE MC)	VFC CABLE
FEEDERS - INTERIOR									
CONCEALED, ACCESSIBLE CEILINGS	X	X							
CONCEALED, INACCESSIBLE CEILINGS	X	X							
CONCEALED IN GYPSUM BOARD PARTITION WALLS	X	X							
EXPOSED, BELOW 10' AFF AND SUBJECT TO DAMAGE	X		X						
EXPOSED, BELOW 10' AFF AND NOT SUBJECT TO DAMAGE	X	X							
EXPOSED, ABOVE 10' AFF UNFINISHED SPACES	X	X							
EXPOSED, FINISHED SPACES	X								
BELOW SLAB ON GRADE	X		X						
DAMP AND WET LOCATIONS	X		X						
BRANCH CIRCUITS - EXTERIOR									
EXPOSED, SURFACE MOUNTED TO STRUCTURE		X	X						
EXPOSED, WITH FREESTANDING SUPPORT		X	X						
CONCEALED IN RETAINING WALL OR SIMILAR ELEMENT		X	X						
BELOW PARKING LOTS AND ROADWAYS		X	X	X					
BELOW GREEN SPACE		X							
WITHIN 5' OF FOUNDATION WALL		X	X						
ROOFTOPS (WHEN APPROVED BY ENGINEER)		X	X	X					
BRANCH CIRCUITS - INTERIOR									
CONCEALED, ACCESSIBLE CEILINGS	X	X						X	
CONCEALED, INACCESSIBLE CEILINGS	X	X							
CONCEALED IN GYPSUM BOARD PARTITION WALLS	X	X			X			X	
CONCEALED IN CMU WALLS	X	X							
EXPOSED, BELOW 10' AFF AND SUBJECT TO DAMAGE	X	X	X						
EXPOSED, BELOW 10' AFF AND NOT SUBJECT TO DAMAGE	X	X							
EXPOSED, ABOVE 10' AFF UNFINISHED SPACES	X	X							
EXPOSED, FINISHED SPACES	X								
BELOW SLAB ON GRADE	X								
EMBEDDED IN ELEVATED CONCRETE SLAB	X								
DAMP AND WET LOCATIONS	X		X				X		
SPECIAL APPLICATIONS									
CONNECTION BETWEEN VFC AND MOTORS (KEYED NOTE 1)									X
CLASS 1 CONTROL CIRCUITS	X	X	X						
CLASS 2 CONTROL CIRCUITS	X	X	X						
CLASS 3 CONTROL CIRCUITS	X	X	X						
CONNECTIONS TO TRANSFORMERS, MOTORS AND VIBRATING EQUIPMENT	X	X					X		

- GENERAL NOTES:
- TRANSITION FROM PVC/HDPE AND PROVIDE RIGID STEEL OR RTCC SWEEPS WHERE CONDUITS PENETRATE WALLS, CONCRETE SLABS, CONCRETE BASES, AND ASPHALT.
  - REFER TO SPECIFICATIONS FOR RESTRICTIONS ON MC/CABLE INSTALLATION.
  - EMT SHALL NOT BE USED ON THE EXTERIOR OF A BUILDING OR IN AREAS SUBJECT TO DAMAGE BELOW 10' AFF.
  - INSTALL SURFACE RACEWAYS ONLY WHERE SHOWN ON DRAWINGS.
- KEYED NOTES:
- NON-ARMORED CABLE SHALL BE INSTALLED IN RACEWAY. ARMORED CABLE SHALL BE INSTALLED IN TRAY OR FREE-AIR AS APPLICABLE.

FEEDER AND BRANCH CIRCUIT SIZING SCHEDULE - GENERAL PURPOSE							
OVERCURRENT DEVICE RATING (AMPERES)	COPPER CONDUCTORS						KEYED NOTES
	WIRE SIZE (AWG OR KCMIL)		CONDUIT SIZE				
	PHASE & NEUTRAL	GROUND	SINGLE PHASE 2 WIRE+G (1PH, 1N, 1G)	SINGLE PHASE 3 WIRE+G (2PH, 1N, 1G)	THREE PHASE 3 WIRE+G (3PH, 1N, 1G)	THREE PHASE & NEUTRAL 4 WIRE+G (3PH, 1N, 1G)	
15-20	12	12	3/4"	3/4"	3/4"	3/4"	
25-30	10	10	3/4"	3/4"	3/4"	3/4"	
35-40	8	10	3/4"	3/4"	3/4"	3/4"	
45-50	8 (6)	10	3/4"	3/4"	3/4"	3/4"	1
60	6	10	3/4" (1")	3/4" (1")	3/4" (1")	1" (1 1/4")	1
70	4	8	1"	1 1/4"	1 1/4"	1 1/4"	
80	8 4 (3)	8	1"	1 1/4"	1 1/4"	1 1/4"	1
90-100	3 (2)	8	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1
110	2 (1)	6	-	1 1/4"	1 1/4"	1 1/4" (1 1/2")	1
125	1 (1/0)	6	-	1 1/4" (1 1/2")	1 1/4" (1 1/2")	1 1/2"	1
150	1/0	6	-	1 1/2"	1 1/2"	1 1/2"	
175	2/0	6	-	2"	2"	2"	
200	3/0	6	-	2"	2"	2 1/2"	
225	4/0	4	-	2"	2"	2 1/2"	
250	250	4	-	2 1/2"	2 1/2"	2 1/2"	
300	350	4	-	2 1/2"	2 1/2"	3"	
350	500	3	-	3"	3"	3"	
400	500	3	-	3"	3"	3"	
450	2-4/0	2-2	-	2-2"	2-2"	2-2 1/2"	
500	2-250	2-2	-	2-2 1/2"	2-2 1/2"	2-2 1/2"	
600	2-350	2-1	-	2-2 1/2"	2-2 1/2"	2-3"	
700	2-500	2-1/0	-	2-3"	2-3"	2-3"	
800	2-500	2-1/0	-	2-3"	2-3"	2-3 1/2"	
1000	3-4/0	3-2/0	-	3-3"	3-3"	3-3"	
1200	3-600	3-3/0	-	3-3 1/2"	3-3 1/2"	3-3 1/2"	
1600	4-600	4-4/0	-	4-3 1/2"	4-3 1/2"	4-3 1/2"	
2000	5-600	5-250	-	5-3 1/2"	5-3 1/2"	5-3 1/2"	

- GENERAL NOTES:
- CONTRACTOR TO SIZE FEEDERS AND BRANCH CIRCUITS BASED ON THIS SCHEDULE AND OVER CURRENT DEVICE SIZE, UNLESS NOTED OTHERWISE.
  - CONTRACTOR MAY COMBINE 20A CIRCUITS AS NOTED IN SPECIFICATION.
  - CONDUCTORS ARE BASED ON THHN/THWN UP TO AND INCLUDING #4/0. LARGER THAN #4/0 ARE BASED ON TYPE XHHW.
  - CONDUIT SIZES ARE VALID FOR EMT OR RGS. CONDUIT SIZES SHALL BE ADJUSTED AS REQUIRED FOR OTHER TYPES OF CONDUIT.
  - ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR AND PROVIDE REQUIRED WIRE SIZES TO ACCOMMODATE MECHANICAL EQUIPMENT LUG SIZES.
  - SIZE OF DISCONNECT SWITCH LOCATED AT EQUIPMENT SHALL BE SIZED BASED UPON OVERCURRENT PROTECTION OF THAT DEVICE.
  - OBTAIN APPROVAL FROM ENGINEER PRIOR TO INSTALLING DIFFERENT SIZE/QUANTITY OF CONDUCTORS TO OBTAIN AN EQUIVALENT AMPACITY.
  - SPICE FROM ALUMINUM TO COPPER PRIOR TO ENTERING EQUIPMENT LISTED FOR USE WITH COPPER CONDUCTORS ONLY OR USE COPPER CONDUCTORS FOR THE ENTIRE LENGTH OF FEEDER.
  - N/A = NOT ACCEPTABLE.

- KEYED NOTES:
- CONDUCTORS ARE BASED ON 90°C, 600V, INSULATED WIRE APPLIED AT 75°C FOR TERMINATION RATED 60/75°C OR 75°C. FOR TERMINATION RATED AT 60°C, USE CONDUCTORS AND CONDUIT SIZES INDICATED IN PARENTHESES.

4	ASI NO.2	02/17/25
2	STATE REVIEW SET	12/20/23
1	ADDENDUM #3	09/29/23
NO.	REVISION	DATE



FILE NO.  
49120167.SDW

FUNDING CODE  
171CODHHS7255

CONTRACT NO.  
Y22003



100 S. Jefferson Ave, Suite 601  
Saginaw, Michigan 48607  
989 752 8107

COPYRIGHT © 2023

PROJECT TITLE  
49120167.SDW - PHASE 500:  
CENTER FOR FORENSIC  
PSYCHIATRY - CREATE  
KITCHEN

SALINE, MICHIGAN

SHEET TITLE  
ELECTRICAL STANDARD  
SCHEDULES

PROJECT NUMBER  
2021094

SHEET NUMBER

PROJECT DATE  
SEPTEMBER 6, 2023

CHECKED BY  
TLC

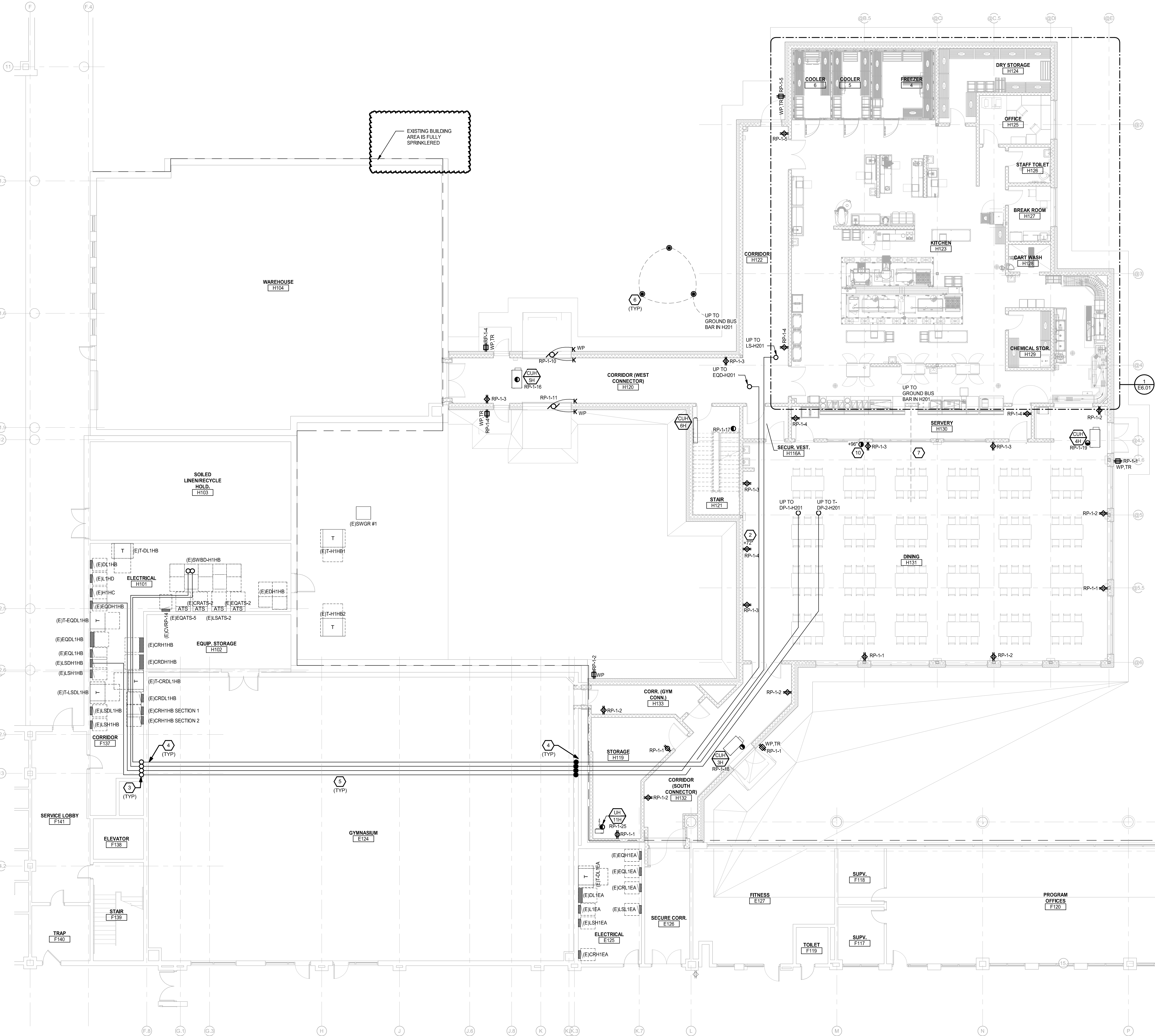
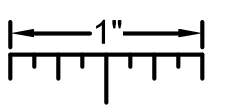
E0.02



Peter Basso Associates Inc  
CONSULTING ENGINEERS  
5145 Livernois, Suite 100  
Troy, Michigan 48068-3276  
Tel: 248-879-5666  
Fax: 248-879-0007  
www.PeterBassoAssociates.com  
PBA Project No. 3021-002



THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.



#### 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:

- INSTALL SALVAGED EQUIPMENT ON NEW ROOF. EXTEND EXISTING BRANCH CIRCUITS AS REQUIRED.
- COORDINATE FINAL LOCATION OF TV WITH ARCHITECTURAL DRAWINGS AND TRADES PRIOR TO ROUGH IN.
- UP TO SECOND FLOOR ELECTRICAL ROOM E203. CORE EXISTING FLOOR.
- CORE EXISTING WALL.
- ROUTE IN CEILING SPACE OF GYM. ROUTE ALONG SIDE NEW MECHANICAL PIPING. COORDINATE FINAL ROUTING WITH MECHANICAL TRADES.
- COORDINATE GROUND ROD PLACEMENT WITH EXISTING UTILITIES PRIOR TO DRIVING THEM IN.
- 20'-0" #4/0 BARE COPPER CONDUCTOR FOR CONCRETE-ENCASED ELECTRODE IN FOUNDATION. ENCASED BY AT LEAST 2" OF CONCRETE.
- PROVIDE LIGHTNING PROTECTION FOR WHOLE BUILDING ADDITION. LIGHTNING PROTECTION SYSTEM SHALL BE UL LISTED MASTER LABEL. REFER TO SPECIFICATIONS FOR SYSTEM REQUIREMENTS.
- TIE INTO THE EXISTING LIGHTNING PROTECTION ON EXISTING BUILDING AS REQUIRED.
- LINE VOLTAGE CLOCK STANDARD ELECTRIC TIME FARADAY 2384 OR OTHER CLOCK COMPATIBLE WITH EXISTING SYSTEM. EXTEND WIRING FROM EXISTING CLOCK HEAD END SYSTEM AS REQUIRED.

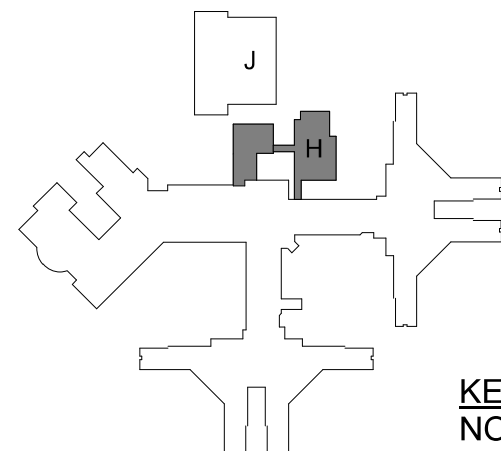
4	ASINO.2	02/17/25
2	STATE REVIEW SET	12/20/23
1	ADDENDUM #3	09/29/23
NO.	REVISION	DATE



FILE NO.  
491/20167.SDW

FUNDING CODE  
171CODHHS7255

CONTRACT NO.  
Y22003



KEY PLAN  
NOT TO SCALE



WTA ARCHITECTS

100 S. Jefferson Ave., Suite 601  
Saginaw, Michigan 48607  
989 752 8107

COPYRIGHT © 2023

PROJECT TITLE  
491/20167.SDW - PHASE 500:

CENTER FOR FORENSIC  
PSYCHIATRY - CREATE  
KITCHEN

SALINE, MICHIGAN

SHEET TITLE  
FIRST FLOOR POWER PLAN  
- UNIT H

PROJECT NUMBER  
2021094

PROJECT DATE  
SEPTEMBER 6, 2023

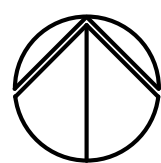
CHECKED BY  
TLC

SHEET NUMBER

E3.01



Peter Basso Associates Inc.  
CONSULTING ENGINEERS  
5145 Livernois, Suite 100  
Troy, Michigan 48068-3276  
Tel: 248-879-5666  
Fax: 248-879-0007  
www.PeterBassoAssociates.com  
PBA Project No. 3021-0902



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