



## WTA ARCHITECTS

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### BULLETIN NO. 2

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

WTA Project No. 2021094  
MAY 14, 2025

The Contractor will kindly forward to the office of the Architect, within seven days of receiving this bulletin, the change in their contract amount for the following work items listed below. Please submit a quotation for each item listing itemized material costs and itemized labor costs, including the number of hours to complete the work.

#### ARCHITECTURAL

- |         |   |
|---------|---|
| Item A1 | Reference Sheets A2.21 & A3.01 <b>(Re-Issued)</b><br>A. Revised frame type F3 for doors H132.C and H131.C to have a 10" center mullin as required for detention door hardware.  |
| Item A2 | Reference Sheet A2.31 <b>(Re-Issued)</b><br>A. Revised jamb details to return brick at openings in lieu of wood blocking at details 2/A2.31, 4/A2.31, 5/A2.31, 15/A2.31, 28/A2.31 & 29/A2.31.   |
| Item A3 | Reference Sheet A5.11 <b>(Re-Issued)</b><br>A. Revised freezer floor to be a reinforced concrete floor on layers of insulation with sleeper's center below each cooler/freezer wall in lieu of two layers of concrete and insulation. |

#### STRUCTURAL

- |         |  |
|---------|--|
| Item S1 | Reference Sheets S2.01 & S5.01 <b>(Re-Issued)</b><br>A. Updated slab callouts and detail 14/S5.01 to match finalized freezer and cooler designs. |
|---------|--|

#### MECHANICAL

- |         |   |
|---------|---|
| Item M1 | Reference Sheet M2.00 <b>(Re-Issued)</b><br>A. Revised CW to underground to serve fixtures as indicated.  |
| Item M2 | Reference Sheet M5.01 <b>(Re-Issued)</b><br>A. Revised CW to route underground to serve fixtures as indicated.<br>B. Added CONSTRUCTION KEY NOTES 13 AND 14 as indicated. |

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ELECTRICAL

- Item E1      Reference Sheet E0.02 **(Re-Issued)**  
A. Revise the receptacle description for type 8.
- Item E2      Reference Sheet E3.01 **(Re-Issued)**  
A. Add power for doors H132.C and H131.C.
- Item E3      Reference Sheet E4.01 **(Re-Issued)**  
A. Add card readers to the interior and exterior at door H132.C
- Item E4      Reference Sheet E5.01 **(Re-Issued)**  
A. Remove 3 pole GFCI breaker for the soiled dishtable tray conveyor and add a 2 pole 20A GFCI breaker and 1 spare 20A breaker.  
B. Change the (2) GFCI breakers to normal breakers in panel KP-1.  
C. Add circuiting information for doors in panel EQ-RP-H201.
- Item E5      Reference Sheet E5.02 **(Re-Issued)**  
A. Increase breaker from 60A to 100A for dishwasher in DP-1-H201.  
B. Remove 50A branch circuit for dishwasher and make breaker spare in DP-1-H201.  
C. Revise name of 13B: "Dishwasher" blower motor circuit in DP-1-H201.  
D. Update electrical load calculations.
- Item E5      Reference Sheet E6.01 **(Re-Issued)**  
A. Revise multiple receptacle heights and locations to coordinate with the food service drawings.  
B. Revise locations receptacles for items 4 and 5 from ceiling to wall.  
C. Revise circuit information for "8: soiled dishtable tray conveyor"  
D. Remove one of the connections called out for the dishwasher to coordinate with the food service drawings.  
E. Remove disconnect and change to receptacle for "66: mixer".  
F. Revise locations for walk-in cooler and freezer power connection.

END OF BULLETIN NO. 2

**WTA** ARCHITECTS

Cariann Davitt Schartow

Attachments: Sheets A2.21, A2.31, A3.01, A5.11, S2.01, S5.01, M2.00, M5.01, E0.02, E3.01, E4.01, E5.01, E5.02, & E6.01

Cc:      Antler Construction Company, Inc.  
            Department of Technology, Management and Budget

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Peter Basso Assoc., Inc.  
MacMillian Assoc., Inc.  
WTA Architects  
CommTech Design  
Stafford Smith  
ROWE Professional Services Company

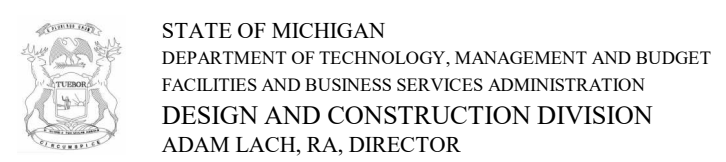


- CONSTRUCTION GENERAL NOTES:**
- WALL TYPES ARE INDICATED AS A DIAMOND WITH A NUMBER. REFER TO SHEET A0.01 FOR DESCRIPTION OF WALL TYPES.
  - PLAN DIMENSIONS DO NOT INCLUDE WALL THICKNESS (REFER TO WALL TYPES).
  - DOOR FRAMES ARE TO BE LOCATED 8" FROM THE PERPENDICULAR WALL, ON THE HINGE SIDE OF THE DOOR AT MASONRY WALLS, UNLESS NOTED OTHERWISE.
  - PROVIDE BLOCKING AT ALL WALL MOUNTED ITEMS INCLUDING BUT NOT LIMITED TO: PLUMBING ACCESSORIES, KITCHEN EQUIPMENT, ETC.
  - ALL AREAS DAMAGED BY DEMOLITION WORK ARE TO BE PATCHED AND REPAIRED OR REPLACED TO MATCH ADJACENT SURFACES.
  - PATCH AND REPAIR REMAINING WALLS, AT ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DEMOLITION POINTS WITH SIMILAR MATERIALS IN SIZE, COLOR AND TEXTURE.
  - PATCH AND REPAIR ALL EXISTING FLOORS AS REQUIRED WHERE EXISTING WALLS HAVE BEEN REMOVED.
  - FURNITURE OR EQUIPMENT TO BE BUILT AND/ORG INSTALLED BY CONTRACTOR IS SPECIFICALLY NOTED, DIMENSIONED OR DETAILED. ALL OTHER FURNITURE OR EQUIPMENT WILL BE PROVIDED AND INSTALLED BY OWNER.
  - FOR CASEWORK DETAILS - REFER TO "NORTHERN AMERICA ARCHITECTURAL WOODWORK STANDARDS (A.W.S.).
  - CASEWORK DESIGNATION REFERS TO THE WIDTH (W) AND DEPTH (D) OF THE CABINET. REFER TO DIMENSIONS FOR HEIGHT. REFER TO "A.W.S." FOR CABINET NUMBER LOCATED BELOW DIMENSION LINE.

**CONSTRUCTION KEYNOTES**

- CONCRETE ENTRY SLAB (REFER TO STRUCTURAL)
- PLUMBING FIXTURE (REFER TO MECHANICAL)
- CASEWORK (REFER TO ELEVATIONS AND DETAILS)
- STAINLESS STEEL GRAB BARS
- PAPER TOWEL DISPENSER
- TOILET PAPER DISPENSER
- SANITARY NAPKIN RECEPTACLE
- MIRROR 18" x 36"
- SOAP DISPENSER
- RECESSED FIRE EXTINGUISHER CABINET
- FURNITURE AND EQUIPMENT (BY OWNER)
- SEMI-RECESSED DETENTION FIRE EXTINGUISHER CABINET
- PATCH AND REPAIR WALL CONSTRUCTION, WALL BASE, AND FLOORING TO MATCH EXISTING.
- COORDINATE LOCATION OF FLOOR TILE MOVEMENT JOINTS WITH ARCHITECT, TYPICAL OF TCNA EJ-171
- FIN TUBE RADIATOR (REFER TO MECHANICAL)
- PROVIDE NEW WATER COLD FLUID-APPLIED WATERPROOFING ALONG THE EXENT OF THE EXISTING FOUNDATION WALL - REFER TO CIVIL FOR COORDINATION OF NEW SIDEWALK, NEW ENTRY SLAB, AND FENCE MODIFICATIONS - USE CAUTION AS UNDERGROUND LINES ARE LOCATED IN THIS AREA
- MECHANICAL CHASE VERIFY SIZE WITH KITCHEN EQUIPMETN MFR. AND MECHANICAL (REFER TO MECHANICAL)
- MECHANICAL CHASE VERIFY CLEAR WIDTH REQUIRED WITH MECHANICAL (REFER TO MECHANICAL)
- EYE WASH STATION (REFER TO FOOD SERVICE AND MECHANICAL)
- SEMI-RECESSED WET CHEMICAL FIRE EXTINGUISHER CABINET
- REFER TO MECHANICAL AND ELECTRICAL DRAWINGS.

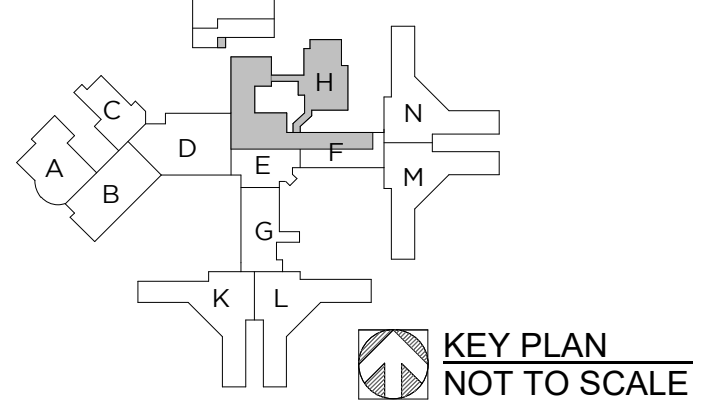
B2	BULLETIN NO. 2	05/14/25
AS1	ASI NO. 1	02/14/25
B1	BULLETIN NO 1	01/08/25
	STATE REVIEW SET	12/20/23
NO.	REVISION	DATE



FILE NO.  
491/20167.SDW

FUNDING CODE  
17ICODHHS7255

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Y22003



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**WTA ARCHITECTS**

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

SALINE, MICHIGAN

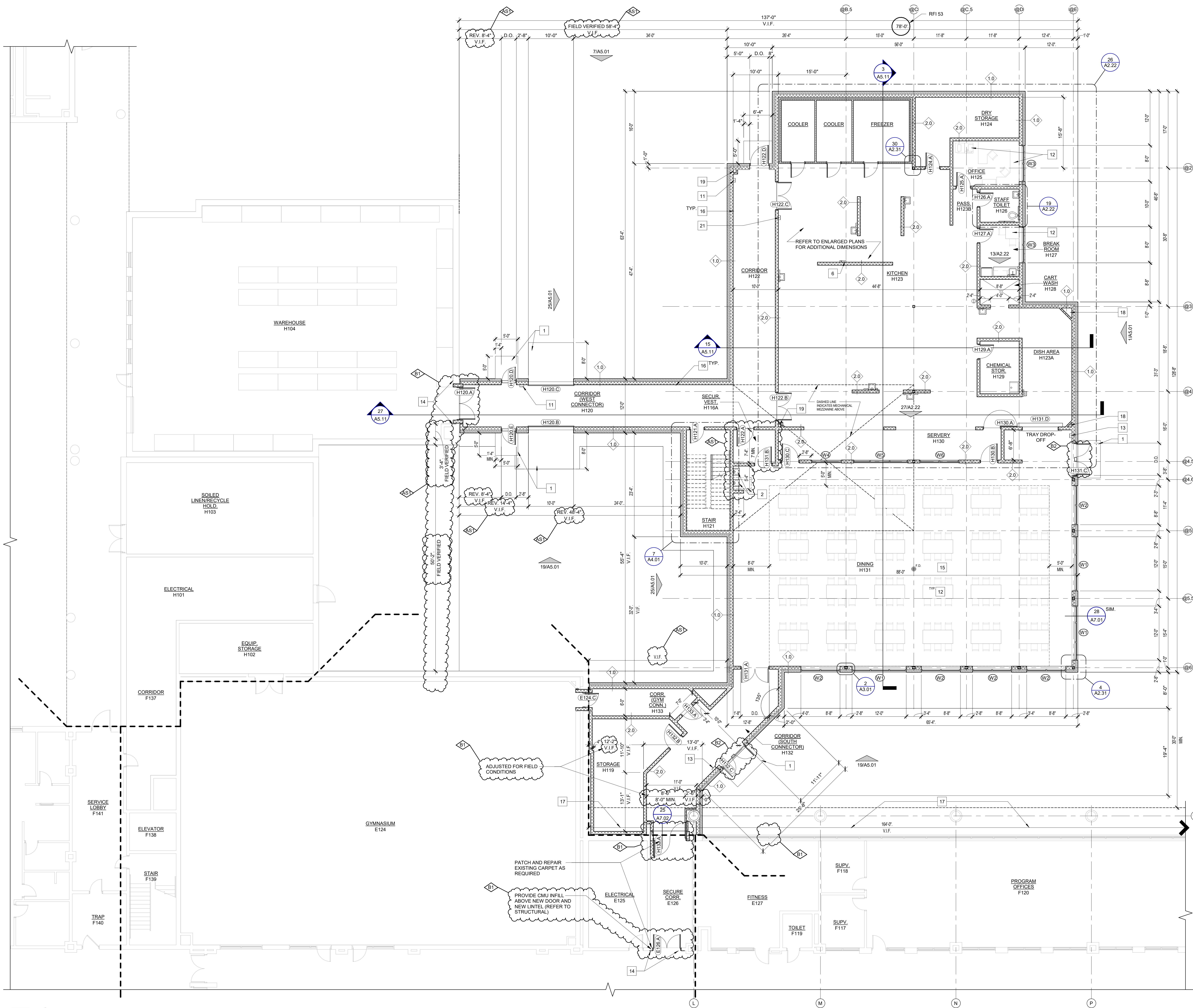
SHEET TITLE  
**FIRST FLOOR  
CONSTRUCTION PLAN**

PROJECT NUMBER  
2021094

PROJECT DATE  
SEPTEMBER 6, 2023

CHECKED BY  
C.D.S.

**A2.21**



**FIRST FLOOR CONSTRUCTION PLAN**  
SCALE: 1/8" = 1'-0"



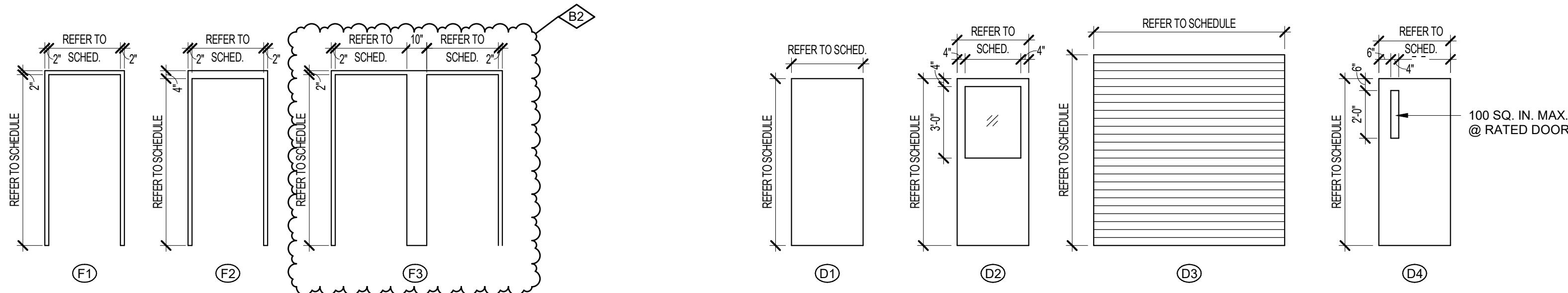




ROOM FINISH SCHEDULE																	
ROOM NO.	ROOM NAME	FLOOR	BASE	MAT.	FINISH	MAT.	FINISH	MAT.	FINISH	MAT.	FINISH	MAT.	FINISH	CEILING	CL.G.	HEIGHT	REMARKS
E124	GYMNASIUM	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	O	
E126	SECURE CORR.	EXIST. / CORR.	EXIST. / CORR.	EXIST. / CORR.	PAINT	EXIST. / CORR.	PAINT	EXIST. / CORR.	PAINT	EXIST. / CORR.	PAINT	EXIST. / CORR.	PAINT	EXIST. / CORR.	EXIST.		O
H104	WAREHOUSE	EXISTING	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.		O
H116A	SECUR. VEST.	C. TILE	C. TILE	C.M.U.	PAINT	C.M.U.	PAINT	C.M.U.	PAINT	C.M.U.	PAINT	C.M.U.	PAINT	SAT-1	--	9'-0"	
H119	STORAGE	RTF	R.W.B.	C.M.U.	PAINT	C.M.U.	PAINT	C.M.U.	PAINT	C.M.U.	PAINT	C.M.U.	PAINT	SAT-1	--	9'-0"	
H120	CORRIDOR (WEST CONNECTOR)	SEALED CONC.	R.W.B.	C.M.U.	PAINT	--	--	C.M.U.	PAINT	--	--	C.M.U.	PAINT	SAT-1	--	9'-0"	L
H121	STAIR	SEALED CONC.	R.W.B.	C.M.U.	EPOXY PAINT	C.M.U.	EPOXY PAINT	C.M.U.	EPOXY PAINT	C.M.U.	EPOXY PAINT	C.M.U.	EPOXY PAINT	EXP.	PAINT		
H122	CORRIDOR	SEALED CONC.	R.W.B.	C.M.U.	PAINT	C.M.U.	PAINT	C.M.U.	PAINT	C.M.U.	PAINT	C.M.U.	PAINT	SAT-1	--	9'-0"	L
H123	KITCHEN	RSF	RSF COVE	C.M.U.	EPOXY PAINT	C.M.U.	EPOXY PAINT	C.M.U.	EPOXY PAINT	C.M.U.	EPOXY PAINT	C.M.U.	EPOXY PAINT	SAT-2	--	9'-0"	N
H123A	DISH AREA	RSF	RSF COVE	C.M.U.	EPOXY PAINT	C.M.U.	EPOXY PAINT	C.M.U.	EPOXY PAINT	C.M.U.	EPOXY PAINT	C.M.U.	EPOXY PAINT	SAT-2	--	9'-0"	N
H124	DRY STORAGE	RSF	RSF COVE	C.M.U.	EPOXY PAINT	C.M.U.	EPOXY PAINT	C.M.U.	EPOXY PAINT	C.M.U.	EPOXY PAINT	C.M.U.	EPOXY PAINT	SAT-2	--	8'-0"	N
H125	OFFICE	RSF	R.W.B.	C.M.U.	PAINT	C.M.U.	PAINT	C.M.U.	PAINT	C.M.U.	PAINT	C.M.U.	PAINT	SAT-1	--	10'-0"	
H126	STAFF TOILET	RSF	R.W.B.	C.M.U.	EPOXY PAINT	C.M.U.	EPOXY PAINT	C.M.U.	EPOXY PAINT	C.M.U.	EPOXY PAINT	C.M.U.	EPOXY PAINT	SAT-2	--	8'-0"	
H127	BREAK ROOM	RSF	R.W.B.	C.M.U.	EPOXY PAINT	C.M.U.	EPOXY PAINT	C.M.U.	EPOXY PAINT	C.M.U.	EPOXY PAINT	C.M.U.	EPOXY PAINT	SAT-1	--	10'-0"	
H128	CART WASH	RSF	RSF COVE	C.M.U.	EPOXY PAINT	C.M.U.	EPOXY PAINT	C.M.U.	EPOXY PAINT	C.M.U.	EPOXY PAINT	C.M.U.	EPOXY PAINT	SAT-2	--	9'-0"	N
H129	CHEMICAL STOR.	RSF	RSF COVE	C.M.U.	EPOXY PAINT	C.M.U.	EPOXY PAINT	C.M.U.	EPOXY PAINT	C.M.U.	EPOXY PAINT	C.M.U.	EPOXY PAINT	SAT-2	--	9'-0"	N
H130	SERVERY	C. TILE	C. TILE	C.M.U.	PAINT	C.M.U.	PAINT	C.M.U.	PAINT	C.M.U.	PAINT	C.M.U.	PAINT	SAT-2	--	9'-0"	
H131	DINING	C. TILE	C. TILE	C.M.U.	PAINT	C.M.U.	PAINT	C.M.U.	PAINT	C.M.U.	PAINT	C.M.U.	PAINT	GYP. BD.	EPOXY PAINT		M
H132	CORRIDOR (SOUTH CONNECTOR)	C. TILE	C. TILE	C.M.U.	PAINT	C.M.U.	PAINT	C.M.U.	PAINT	C.M.U.	PAINT	C.M.U.	PAINT	SAT-1	--	8'-0"	L
H133	CORR. (GYM CONN.)	RTF	R.W.B.	C.M.U.	PAINT	C.M.U.	PAINT	C.M.U.	PAINT	C.M.U.	PAINT	C.M.U.	PAINT	SAT-1	--	9'-0"	
H200	STAIR	SEALED CONC.	R.W.B.	C.M.U.	EPOXY PAINT	C.M.U.	EPOXY PAINT	C.M.U.	EPOXY PAINT	C.M.U.	EPOXY PAINT	C.M.U.	EPOXY PAINT	EXP.	EPOXY PAINT		
H201	MECHANICAL / ELECTRICAL	SEALED CONC.	--	GYP. BD.	EPOXY PAINT	GYP. BD.	EPOXY PAINT	GYP. BD.	EPOXY PAINT	C.M.U.	EPOXY PAINT	EXP.	EPOXY PAINT				

DOOR & FRAME SCHEDULE																	
DOOR NUMBER	ROOM NAME	DOOR PAIR	WIDTH	HEIGHT	THK.	MAT.	TYPE	FRAME MAT.	TYPE	HEAD	JAMB	SILL	FIRE RATING LABEL	MIN.	REMARKS		
E124.C	CORR. (GYM CONN.)		3'-0"	7'-0"	1 3/4"	H.M.	D4	H.M.	F2	27/A7.02 SIM.	11/A2.31	30/A7.02 SIM.		90	A, D, K, V		
E126.A	SECURE CORR.	X	3'-0"	7'-0"	1 3/4"	H.M.	D2	H.M.	F2	20/A3.01 SIM.	25/A3.01	--	B1	20	C, D, G, V		
H120.A	CORRIDOR (WEST CONNECTOR)	X	3'-6"	7'-0"	1 3/4"	H.M.	D4	H.M.	F2	27/A7.02	1/A2.31	30/A7.02		90	B, C, G, W		
H120.B	CORRIDOR (WEST CONNECTOR)		10'-0"	8'-0"	1 3/8"	STEEL	D3	STEEL	-	27/A3.01	28/A3.01	--			H		
H120.C	CORRIDOR (WEST CONNECTOR)		10'-0"	8'-0"	1 3/8"	STEEL	D3	STEEL	-	27/A3.01	28/A3.01	--			H		
H120.D	CORRIDOR (WEST CONNECTOR)		3'-0"	7'-2"	1 3/4"	H.M.	D2	H.M.	F1	21/A3.01	29/A2.31 SIM.	--			C, G, T		
H120.E	CORRIDOR (WEST CONNECTOR)		3'-0"	7'-2"	1 3/4"	H.M.	D2	H.M.	F1	21/A3.01	29/A2.31 SIM.	--	B1		C, G, T		
H121.A	STAIR		3'-0"	7'-2"	1 3/4"	H.M.	D4	H.M.	F1	30/A3.01	6/A2.31	--	B	60	A, H, R, W		
H122.A	SECUR. VEST.		3'-8"	7'-2"	1 3/4"	WD.	D2	H.M.	F1	20/A3.01	6/A2.31	--		20	A, C, F, G, S		
H122.B	CORRIDOR	X	3'-0"	7'-2"	1 3/4"	WD.	D2	H.M.	F1	20/A3.01	6/A2.31	--		20	A, C, G, R, Y		
H122.C	CORRIDOR	X	3'-0"	7'-2"	1 3/4"	WD.	D2	H.M.	F1	20/A3.01	6/A2.31	--		20	A, C, G, R, Y		
H122.D	CORRIDOR		4'-0"	7'-2"	1 3/4"	H.M.	D2	H.M.	F1	21/A3.01	29/A2.31	--			D, G, T		
H124.A	DRY STORAGE		3'-0"	7'-2"	1 3/4"	H.M.	D1	H.M.	F1	20/A3.01	6/A2.31	--	B1	35	A, H		
H125.A	OFFICE		3'-0"	7'-2"	1 3/4"	WD.	D2	H.M.	F1	20/A3.01	6/A2.31	--			H, R		
H126.A	STAFF TOILET		3'-0"	7'-2"	1 3/4"	H.M.	D1	H.M.	F1	20/A3.01	6/A2.31	--			H		
H127.A	BREAK ROOM		3'-0"	7'-2"	1 3/4"	WD.	D2	H.M.	F1	20/A3.01	6/A2.31	--			H, R		
H129.A	CHEMICAL STOR.		3'-0"	7'-2"	1 3/4"	H.M.	D1	H.M.	F1	20/A3.01	6/A2.31	--			H		
H130.A	SERVERY		3'-8"	7'-2"	1 3/4"	WD.	D1	H.M.	F1	20/A3.01	6/A2.31	--			C, G		
H130.B	SERVERY		3'-8"	7'-2"	1 3/4"	WD.	D2	H.M.	F1	20/A3.01	6/A2.31	--			H, S, Y		
H130.C	SERVERY		3'-8"	7'-2"	1 3/4"	WD.	D2	H.M.	F1	20/A3.01	6/A2.31	--			H, S, Y		
H131.A	DINING	X	3'-0"	7'-2"	1 3/4"	WD.	D2	H.M.	F1	20/A3.01	6/A2.31	--			B, H, S		
H131.B	SECUR. VEST.		3'-8"	7'-2"	1 3/4"	WD.	D2	H.M.	F1	20/A3.01	6/A2.31	--			G, J, P, Q, S		
H131.C	DINING	X	3'-0"	7'-2"	1 3/4"	D.H.M.	D2	D.H.M.	F3	29/A3.01	5/A2.31	--			C, D, E, G, U		
H131.D	CORR. (S. CONN.)		8'-0"	3'-4"	1/2"	STEEL	D3	STEEL		26/A3.01	26/A2.31	26/A3.01			H, X		
H132.A	SECURE CORR.	X	3'-6"	7'-0"	0"	H.M.	D4	H.M.	F2	27/A7.02	13/A2.31	30/A7.02	B1	90	A, H, V		
H132.B	STORAGE		3'-8"	7'-2"	1 3/4"	H.M.	D1	H.M.	F1	20/A3.01	6/A2.31	--			A, H		
H132.C	CORRIDOR (SOUTH CONNECTOR)	X	3'-0"	7'-2"	1 3/4"	D.H.M.	D2	D.H.M.	F3	21/A3.01	5/A2.31	--			C, D, E, G, U		
H133.A	CORR. (GYM CONN.)		3'-0"	7'-2"	1 3/4"	WD.	D4	H.M.	F1	20/A3.01	6/A2.31	--	B1		D, K, S		
H200.A	STAIR		3'-0"	7'-2"	1 3/4"	H.M.	D4	H.M.	F1	20/A3.01	6/A2.31	--	B	B1	A, H, R, W		
H201.A	MECHANICAL / ELECTRICAL		3'-0"	7'-2"	1 3/4"	H.M.	D1	H.M.	F1	22/A3.01	22/A3.01	SIM.			H		

FINISH MATERIAL SCHEDULE					
MATERIAL	MANUFACTURER	STYLE	COLOR	SIZE	REMARKS
C. TILE - CERAMIC TILING	STONEPEAK	SIMPLY MODERN	SIMPLY TAN, HONED FINISH	12"x24"	WITH MATCHING SIMPLY MODERN 6"x12" COVE BASE, LATICRETE GROUT COLOR: HEMP 27, 1/3 ASHLAR LAYING PATTERN
PAINT - CEILINGS	SHERWIN-WILLIAMS		SW1004 PURE WHITE		
PAINT - EXTERIOR DOORS & FRAMES	SHERWIN-WILLIAMS		SW1004 PURE WHITE		
PAINT - INTERIOR DOORS & FRAMES	SHERWIN-WILLIAMS		SW1099 KNUBBY WOOL		
PAINT - STAIRS & RAILINGS	SHERWIN-WILLIAMS		SW6215 ROCKY RIVER		
PAINT - WALLS	SHERWIN-WILLIAMS		SW1102 CHENILLE WHITE		
RSF - RESILIENT SHEET VINYL	PROTECT-ALL	CLASSIC	LIGHT GRAY	5 FT. x 8 FT.	WITH MATCHING PROTECT-ALL 6" COVE BASE SYSTEM - ONLY WHERE NOTED.
RTF - RESILIENT TILE FLOORING	TARKETT	ID LATITUDE	HEARTHSTONE	18"x18"	DIRECT GLUE DOWN
RWB - RESILIENT WALL BASE	TARKETT	TP RUBBER	CHARCOAL 20	4" COVE	
SAT-1 - SUSPENDED ACOUSTIC TILE	ARMSTRONG	PSUSURED	WHITE	24"x24"	
SAT-2 - SUSPENDED ACOUSTIC TILE	ARMSTRONG	KITCHEN ZONE	WHITE	24"x24"	

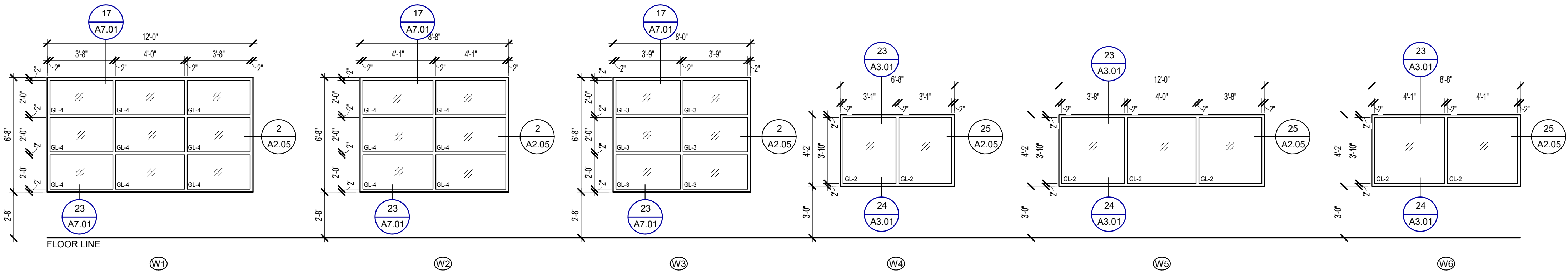


#### DOOR FRAMES

1/4" = 1'-0"

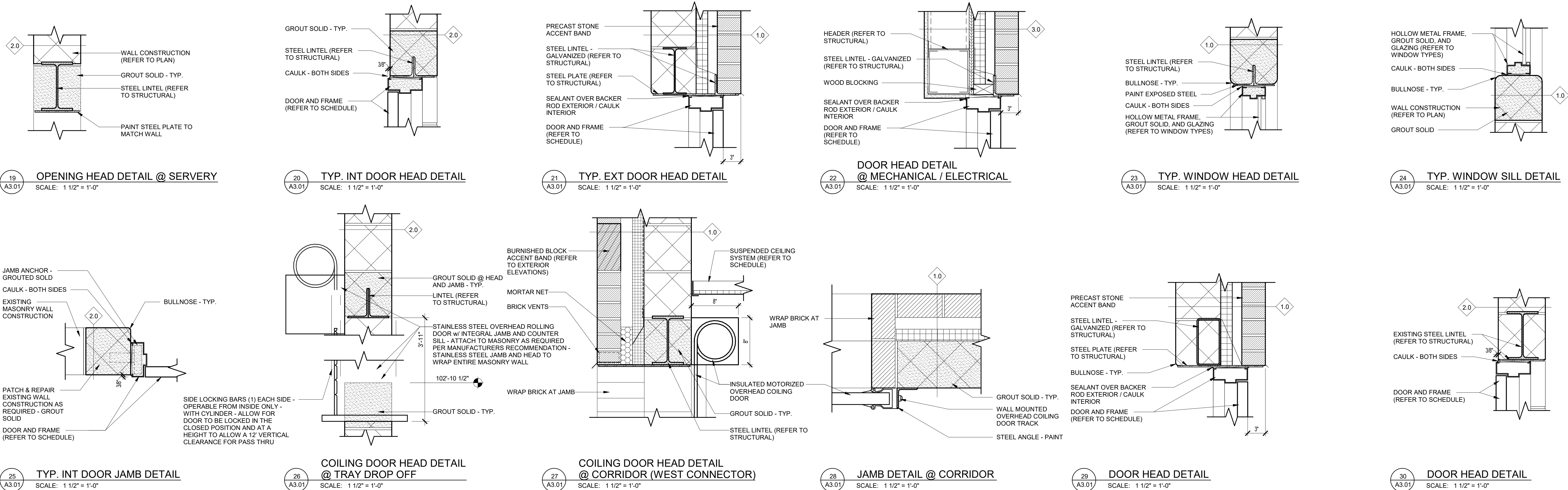
#### DOOR TYPES

1/4" = 1'-0"



#### WINDOW TYPES

1/4" = 1'-0"



#### SCHEDULE GENERAL NOTES:

- FINAL LOCATIONS OF DOOR CARD READERS, DOOR INTERCOMS AND PUSH BUTTONS TO BE FIELD VERIFIED WITH OWNER.
- REFER TO SHEET A0.01 AND MATERIAL SCHEDULE (THIS SHEET) FOR ABBREVIATIONS.
- WALL TYPES ARE INDICATED w/ A DIAMOND AND A NUMBER. REFER TO SHEET A0.01 FOR DESCRIPTION OF WALL TYPES.

#### SCHEDULE OF REMARKS:

- PROVIDE DOOR CLOSER.
- PROVIDE HOLD OPEN w/ CLOSER TIED INTO FIRE ALARM.
- PROVIDE A CARD READER INSIDE AND OUTSIDE.
- PROVIDE A DOOR INTERCOM w/ PUSH BUTTON INSIDE AND OUTSIDE.
- REINFORCED DETENTION DOOR.
- PROVIDE A DOOR INTERLOCKS INSIDE AND OUTSIDE.
- PROVIDE AN ELECTRIC LOCK.
- PROVIDE A MORTISE LOCK.
- NOT USED.
- PROVIDE A CARD READER OUTSIDE.
- PROVIDE A PUSH BAR ON INSIDE.
- PROVIDE HOLD-DOWN CLIPS FOR S.A.T. CEILING IN AREA NEAR EXTERIOR DOORS IN QUANTITY AND SPACING REQUIRED TO PREVENT MOVEMENT / UPLIFT OF CEILING TILES.
- CEILING HEIGHT VARIES (REFER TO CEILING PLAN).
- RSF FLOORING INCLUDES: Z-BAR COVE CAP, S.S. CORNER GUARDS @ COVE BASE CORNERS, AND S.S. TRANSITIONS STRIPS AT ALL FLOOR MATERIAL TRANSITIONS, BY FLRG MFR.
- PATCH AND REPAIR AT DEMOLITION POINTS.
- PROVIDE AN INTERLOCK INSIDE.
- PROVIDED AN INTERCOM w/ PUSH BUTTON INSIDE.
- DOOR LITE TO BE GL-1 (REFER TO SPECS).
- DOOR LITE TO BE GL-2 (REFER TO SPECS).
- DOOR LITE TO BE GL-3 (REFER TO SPECS).
- DOOR LITE TO BE GL-4 (REFER TO SPECS).
- DOOR LITE TO BE GL-5 (REFER TO SPECS).
- DOOR LITE TO BE GL-6 (REFER TO SPECS).
- PROVIDE DOOR STOP (REFER TO SPECS).
- PROVIDE CLOSER AND HOLD OPEN.

B2	BULLETIN NO. 2	05/14/25
B1	BULLETIN NO 1	01/08/25
NO.	REVISION	DATE



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

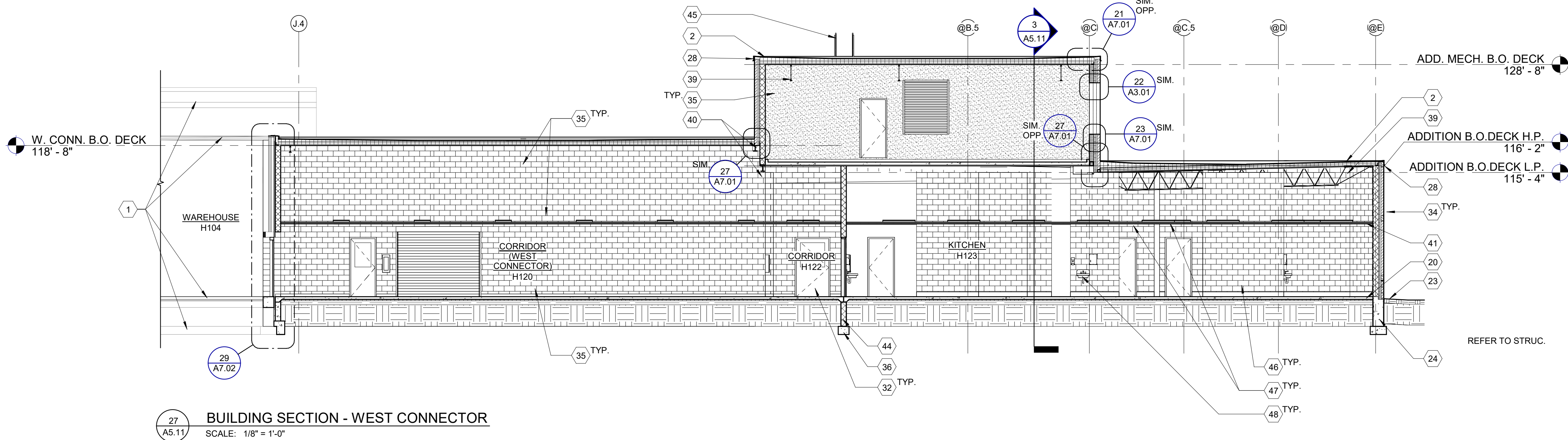
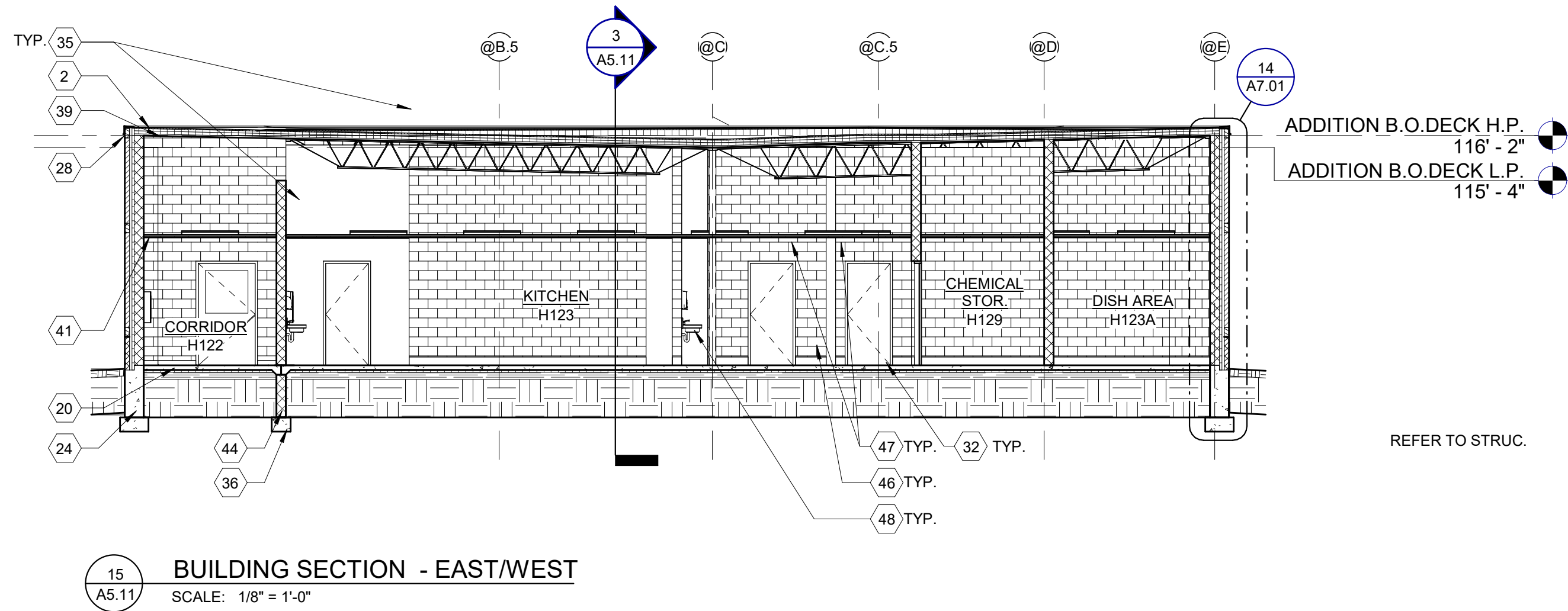
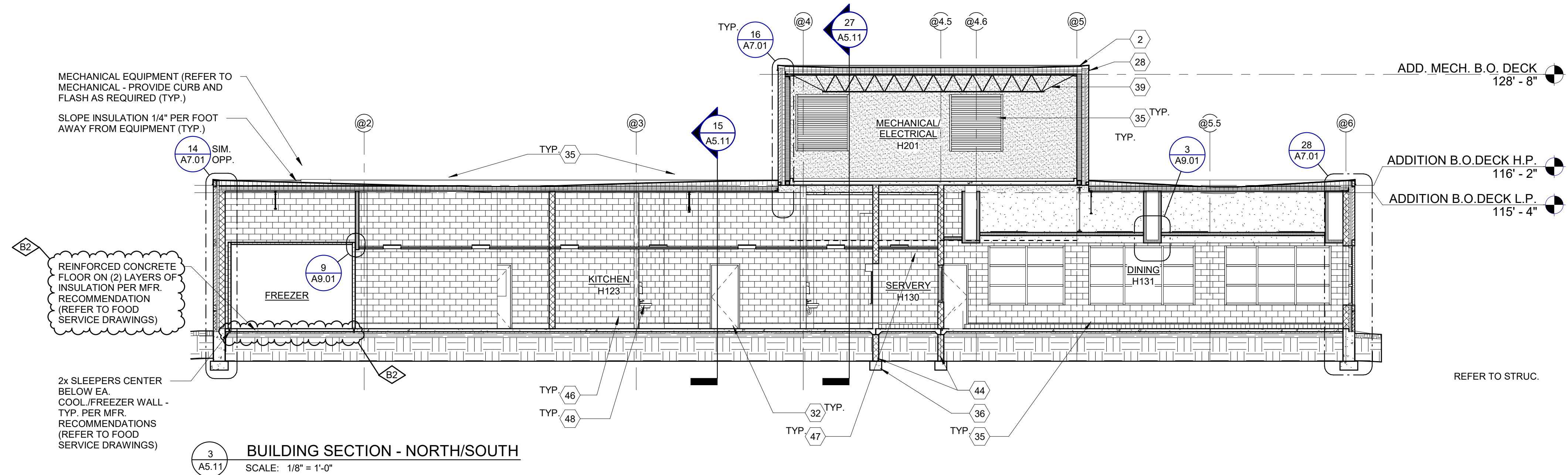
SHEET TITLE  
ROOM FINISH & DOOR  
SCHEDS, DOOR & WDW  
TYPES, AND DOOR DTLs

PROJECT NUMBER 2021094	SHEET NUMBER
PROJECT DATE SEPTEMBER 6, 2023	A3.01
CHECKED BY C.D.S.	



# MATERIAL KEYNOTES

- EXISTING TO REMAIN
- FULLY ADHESED SINGLE PLY MEMBRANE ROOFING
- 3/4" ROOFING BOARD
- RIGID ROOF INSULATION R-30
- METAL DECK (REFER TO STRUCTURAL)
- 2x PRESSURE TREATED WOOD BLOCKING
- SPRAY INSULATION IN METAL DECK FLUTES TO ALLOW FOR CONTINUOUS INSULATION
- STEEL LINTEL - EXTERIOR STEEL LINTELS TO BE GALVANIZED - PAINT (REFER TO STRUCTURAL)
- GROUT SOLID
- THRU WALL FLASHING
- MORTAR NET
- FACE BRICK - MATCH EXISTING
- 8x24 BURNISHED BLOCK ACCENT BAND - MATCH EXISTING
- 8x24 SPLIT FACE BLOCK WAINSCOT - MATCH EXISTING
- SEALANT OVER BACKER ROD EXTERIOR / CAULK INTERIOR - TYPICAL AT ALL WINDOWS AND DOORS
- ALUMINUM WINDOW SYSTEM WITH INSULATED GLAZING
- BRICK VENT
- BULLNOSE
- BOND BREAK
- 4" CONCRETE SLAB ON VAPOR BARRIER (REFER TO STRUCTURAL)
- PERIMETER INSULATION - EXTEND 2'-0" IN BOTH DIRECTIONS
- COMPACTED GRANULAR FILL
- GRADE (REFER TO CIVIL)
- POURED CONCRETE FOUNDATION WALL (REFER TO STRUCTURAL)
- BITUMINOUS DAMPPROOFING
- STEEL COLUMN (REFER TO STRUCTURAL)
- RIGID INSULATION
- CONTINUOUS METAL ROOF EDGE - MATCH EXISTING PROFILE - AT CONNECTION POINTS ALSO MATCH EXISTING HEIGHT (V.I.F.)
- NEW FENCE (REFER TO CIVIL AND ELECTRICAL)
- CONCRETE MASONRY UNIT
- COLD FORMED METAL FRAMING
- DOOR AND FRAME (REFER TO SCHEDULE)
- 2" EXPANSION JOINT / CONTROL JOINT AS REQUIRED - FIRE RATE AS REQUIRED (REFER TO CODE PLAN)
- LIGHT FIXTURE (REFER TO ELECTRICAL)
- MECHANICAL ITEM (REFER TO MECHANICAL)
- POURED CONCRETE FOOTING (REFER TO STRUCTURAL)
- STEEL ANGLE (REFER TO STRUCTURAL)
- STEEL TUBE (REFER TO STRUCTURAL)
- STEEL JOIST (REFER TO STRUCTURAL)
- STEEL BEAM (REFER TO STRUCTURAL)
- SUSPENDED CEILING SYSTEM (REFER TO SCHEDULE)
- LOUVER (REFER TO MECHANICAL)
- BOND BEAM WITH (2) #5 CONT. GROUT SOLID (REFER TO STRUCTURAL)
- CMU FOUNDATION WALL (REFER TO STRUCTURAL)
- ROOF LADDER - ATTACH AND FLASH AS REQUIRED PER MANUFACTURER'S RECOMMENDATIONS (REFER TO REFERENCE ONLY DETAIL)
- WALL MOUNTED ELECTRICAL ITEM (REFER TO ELECTRICAL)
- CEILING MOUNTED ELECTRICAL ITEM (REFER TO ELECTRICAL)
- PLUMBING FIXTURE AND ACCESSORIES (REFER TO MECHANICAL & STANDARD MOUNTING HEIGHTS CHART)
- BASE MATERIAL (REFER TO SCHEDULE)
- CONTROL JOINT



NO.	REVISION	DATE
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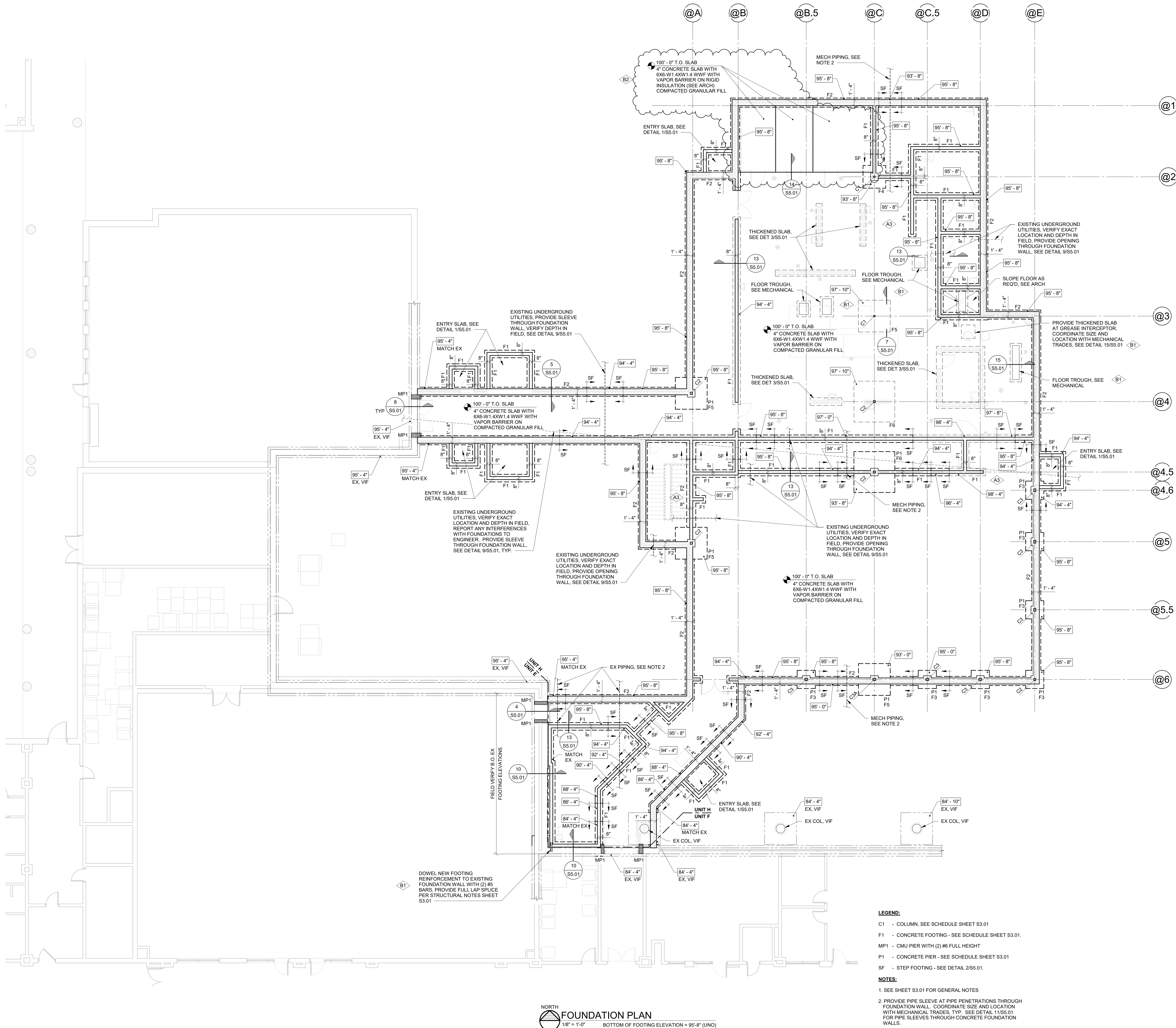
PROJECT TITLE  
491/20167.SDW - PHASE 500:  
**CENTER FOR FORENSIC  
PSYCHIATRY - CREATE  
KITCHEN**

SALINE, MICHIGAN

SHEET TITLE  
**BUILDING SECTIONS**

PROJECT NUMBER <b>2021094</b>	SHEET NUMBER <b>A5.11</b>
PROJECT DATE SEPTEMBER 6, 2023	
CHECKED BY C.D.S.	

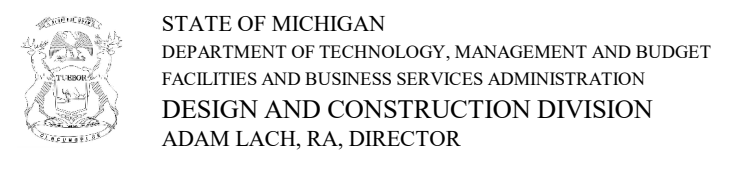




NORTH  
FOUNDATION PLAN  
1/8" = 1'-0"  
BOTTOM OF FOOTING ELEVATION = 95'-8" (UNO)

- 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:**
- SEE SHEET S3.01 FOR GENERAL NOTES
  - PROVIDE PIPE SLEEVE AT PIPE PENETRATIONS THROUGH FOUNDATION WALL. COORDINATE SIZE AND LOCATION WITH MECHANICAL TRADES, TYP. SEE DETAIL 11/S5.01 FOR PIPE SLEEVES THROUGH CONCRETE FOUNDATION WALLS.

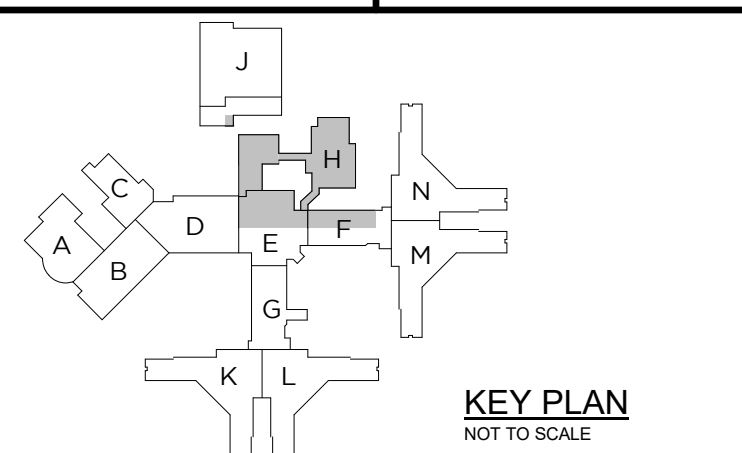
B2	BULLETIN NO. 2	05/13/25
B1	BULLETIN NO. 1	01/08/25
A3	ADDENDUM NO. 3	09/28/23
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PROJECT TITLE  
491/20167.SDW - PHASE 500:  
**CENTER FOR FORENSIC  
PSYCHIATRY - CREATE  
KITCHEN**  
SALINE, MICHIGAN

SHEET TITLE  
**FOUNDATION PLAN**

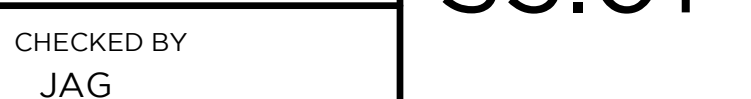
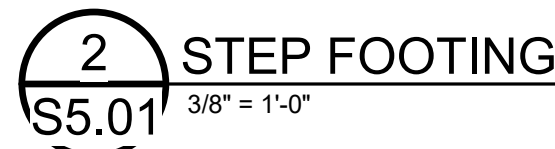
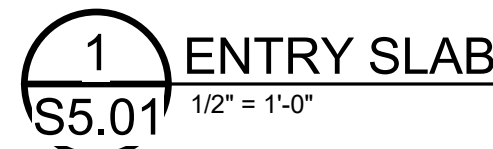
PROJECT NUMBER  
**2021094**

PROJECT DATE  
SEPTEMBER 6, 2023

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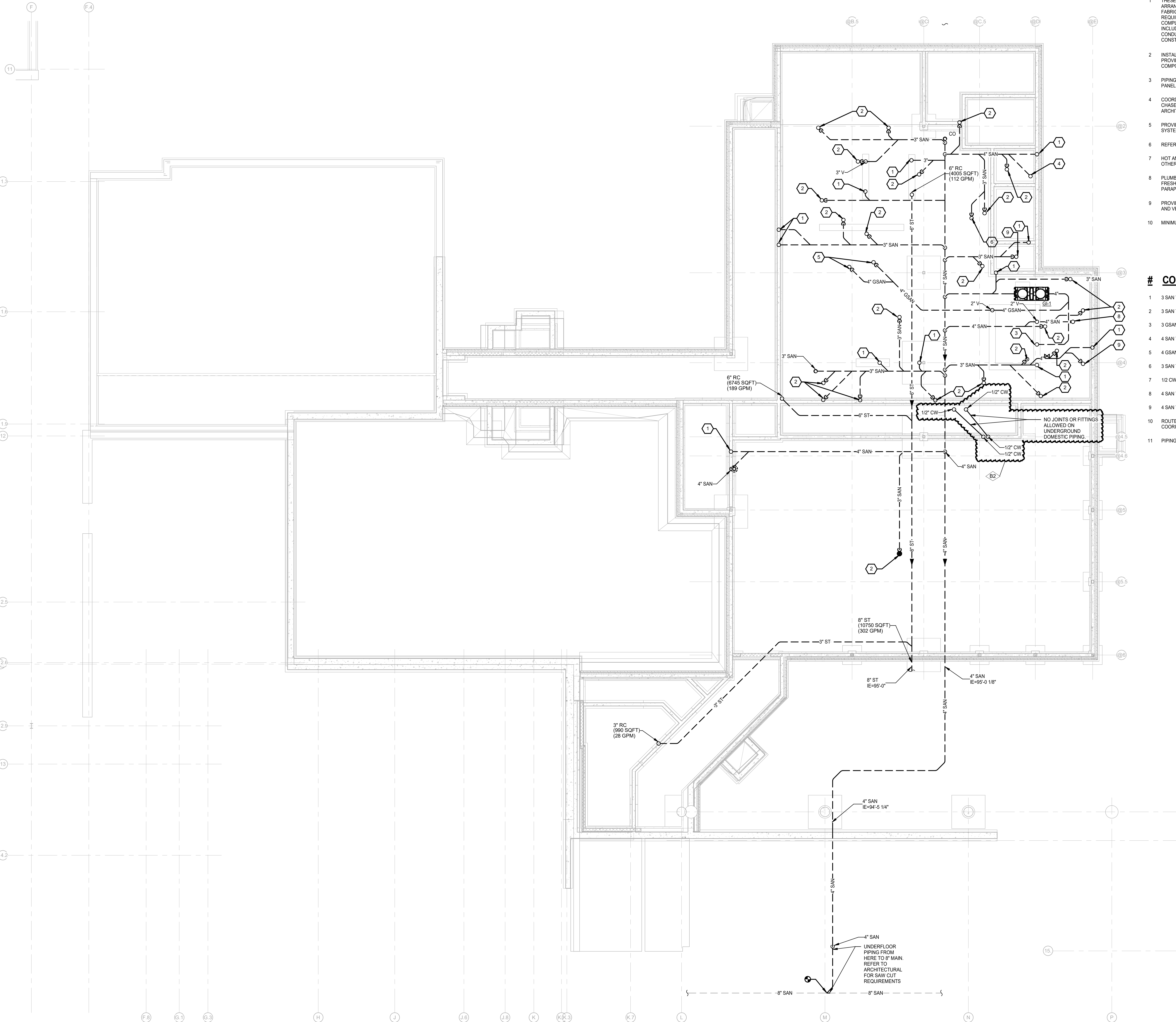
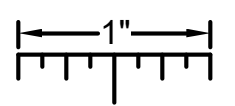
SHEET NUMBER  
**S2.01**







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:**

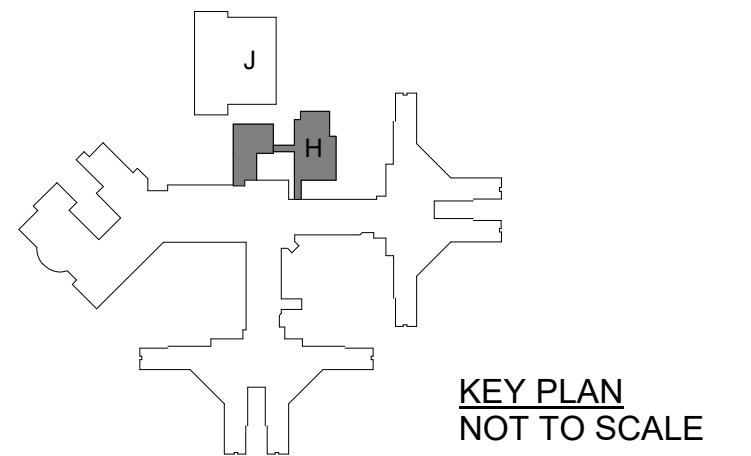
- 3 SAN TO LAV/SINK.
- 3 SAN TO FLOOR DRAIN/SINK.
- 3 GSAN TO SINK.
- 4 SAN TO WC.
- 4 GSAN TO FLOOR TROUGH.
- 3 SAN TO FLOOR TROUGH.
- 1/2 CW TO DRAIN COOLER.
- 4 SAN TO FLOOR TROUGH.
- 4 SAN TO FLOOR DRAIN/SINK.
- ROUTE IN CEILING SPACE OF GYM. ROUTE ALONG SIDE NEW MECHANICAL PIPING. COORDINATE FINAL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

5	BULLETIN NO.2	04/15/25
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

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

SHEET TITLE  
**UNDERGROUND PLUMBING  
PLAN**

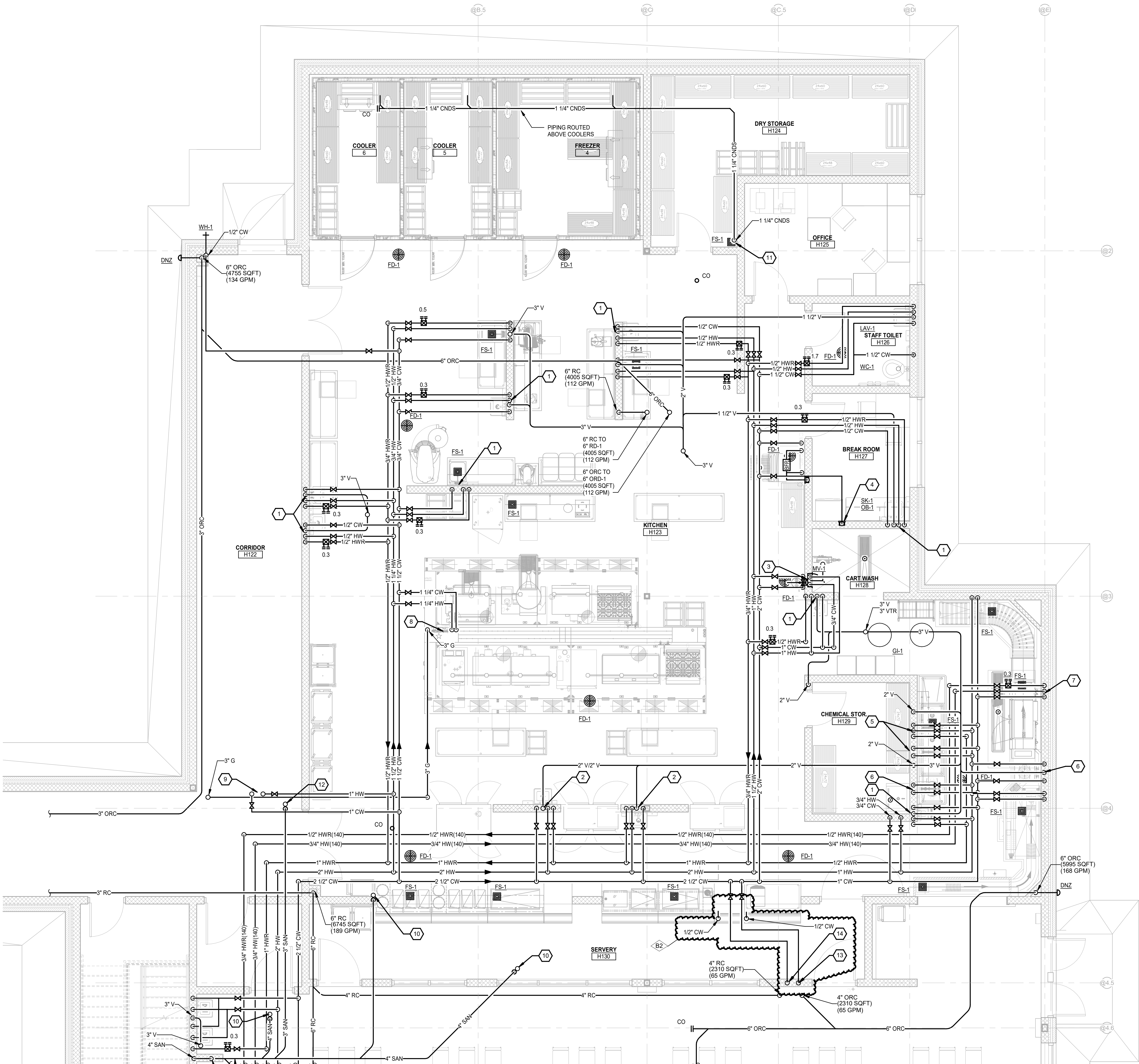
PROJECT NUMBER 2021094	SHEET NUMBER <b>M2.00</b>
PROJECT DATE SEPTEMBER 6, 2023	
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PBA Project No. 3021-002

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



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:

- 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:

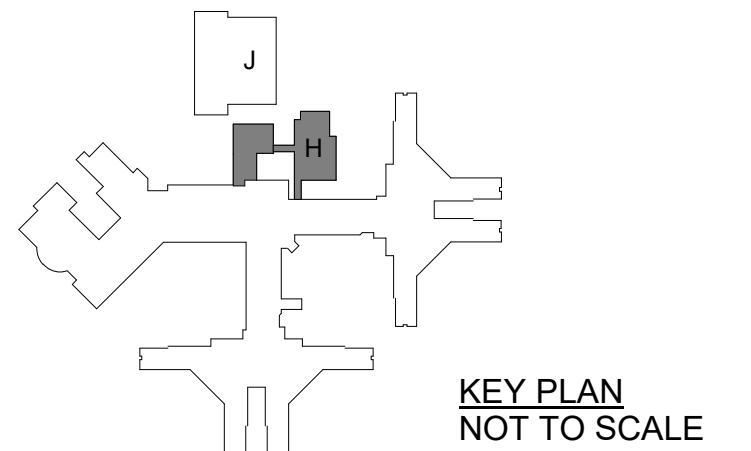
- 3 SAN, 2 V, 1/2 CW, 1/2 HW, AND 1/2 HWR TO SINK.
- 3 SAN, 1 1/2 V, 1/2 CW, 1/2 HW TO SINK.
- 3/4 CW AND 3/4 HW THROUGH CODE REQUIRED BACKFLOW PREVENTER AND CONNECT TO HOSE REAL MIXING VALVE.
- 1/2 CW TO OULETBOX FOR ICE MAKER.
- 3/4 CW, 3/4 HW TO 3 COMPARTMENT SINK. ROUTE 3 GSAN FROM WASH COMPARTMENT ROUTE 1W FROM RINSE AND SANITIZE COMPARTMENT AND TERMINATE AT CODE REQUIRED DISTANCE ABOVE FLOOR SINK.
- 3/4 CW, 3/4 HW TO PRE-SPRAY AND FOOD GRINDER.
- 1/2 CW, 1/2 HW(140), AND 1/2 HWR(140) THROUGH CODE REQUIRED BACKFLOW PREVENTER, ROUTE 1/2 CW, 1/2 HW(140) FROM BACKFLOW PREVENTER TO DISHWASHER. ROUTE 1W FROM BACKFLOW PREVENTER AND DISHWASHER AND TERMINATE AT CODE REQUIRED DISTANCE ABOVE FLOOR SINK.
- 3/4 CW, 3/4 HW, 1/2 HWR, AND 3 GAS TO UTILITY DISTRIBUTIONS SYSTEM.
- 1 CW AND 1 HW TO PENTHOUSE ABOVE.
- 4 SAN TO FLOOR DRAIN/SINK.
- TERMINATE CONDENSATE AT CODE REQUIRED DISTANCE ABOVE FLOOR DRAIN/SINK.
- 3 SAN FOR FLOOR DRAIN/SINK.
- 1/2 CW TO UNDERGROUND TO SERVE BEVERAGE DISPENSER.
- 1/2 CW TO UNDERGROUND TO SERVE COLD FOOD SERVING COUNTER.

5	BULLETIN NO. 2	04/15/25
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  
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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 <b>M5.01</b>
PROJECT DATE SEPTEMBER 6, 2023	
CHECKED BY WEK	

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PBA Project No. 3021-0002



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)(6) 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	185	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, 480V, 4 WIRE (NEMA L15-20R)
Type 8	120V SINGLE PHASE RECEPTACLE, 2 POLE, 3 WIRE (NEMA B-30R)

RACEWAY / CONDUCTOR / CABLE APPLICATION...									
	WIRE		RACEWAY				CABLE/CORD		
	COPPER, TYPE THHN/THWN-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		

- 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						
	WIRE SIZE (AWG OR KCMIL)		CONDUIT SIZE				KEYED NOTES
	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, 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 (4)	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	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 1/4" (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	3-400	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.
  - SPlice 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.

5	BULLETIN NO.2	04/15/25
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1	ADDENDUM #3	09/29/23
NO.	REVISION	DATE



FILE NO.  
49120167.SDW

FUNDING CODE 171CODHHS7255	CONTRACT NO. Y22003
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PROJECT TITLE  
49120167.SDW - PHASE 500:  
CENTER FOR FORENSIC  
PSYCHIATRY - CREATE  
KITCHEN  
SALINE, MICHIGAN

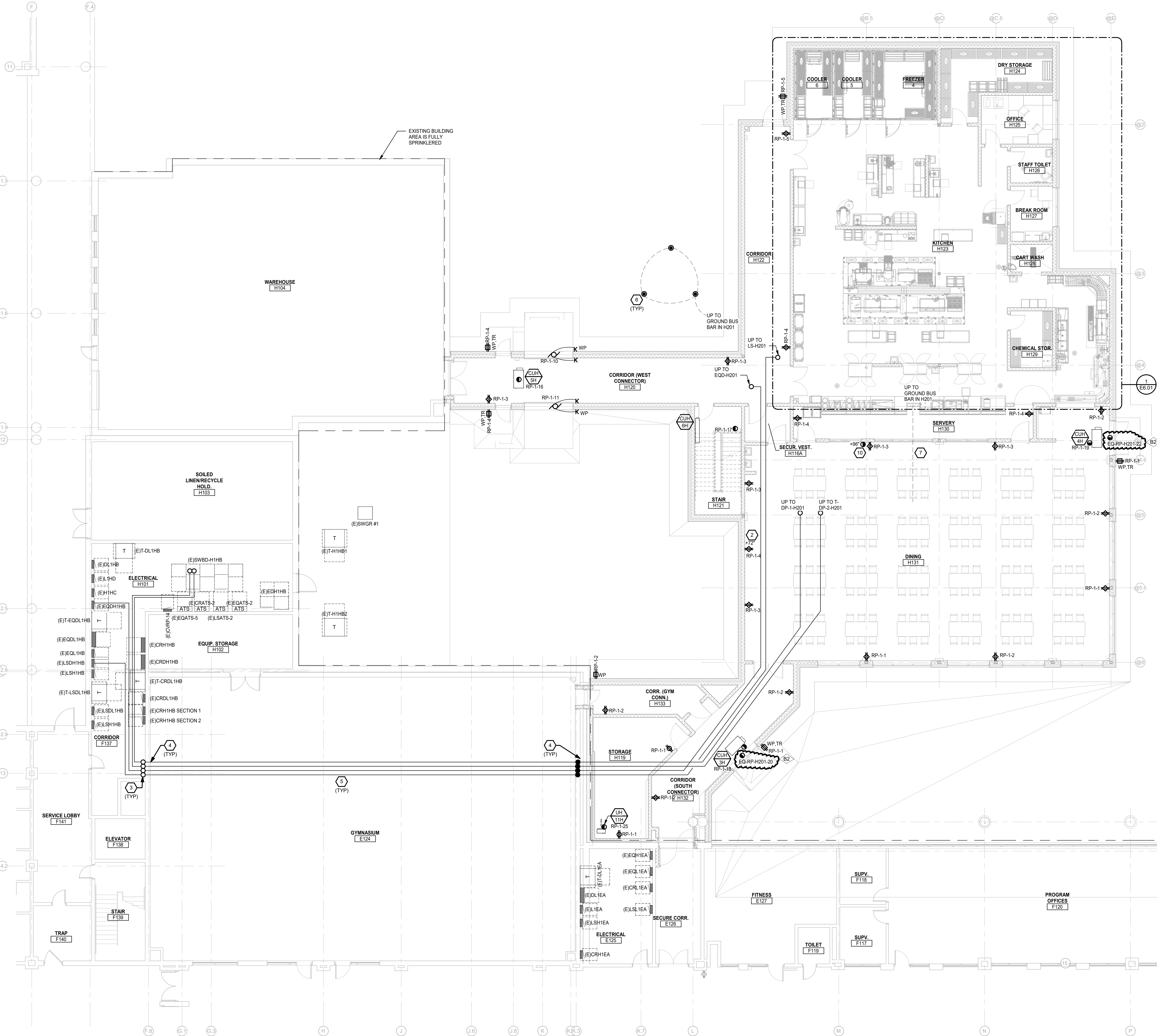
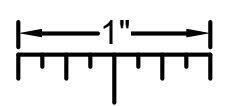
SHEET TITLE  
ELECTRICAL STANDARD  
SCHEDULES

PROJECT NUMBER 2021094	SHEET NUMBER
PROJECT DATE SEPTEMBER 6, 2023	E0.02
CHECKED BY TLC	

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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 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" #40 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.

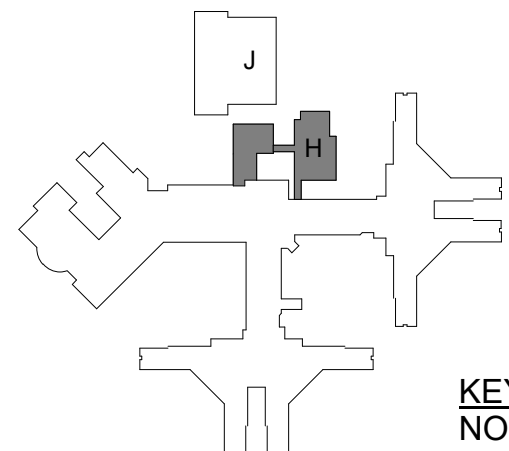
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4	ASI NO.2	02/17/25
2	STATE REVIEW SET	12/20/23
1	ADDENDUM #3	09/29/23
NO.	REVISION	DATE



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PROJECT TITLE  
491/20167.SDW - PHASE 500:

CENTER FOR FORENSIC  
PSYCHIATRY - CREATE  
KITCHEN

SALINE, MICHIGAN

SHEET TITLE

FIRST FLOOR POWER PLAN  
- UNIT H

PROJECT NUMBER  
2021094

SHEET NUMBER

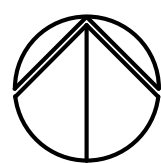
PROJECT DATE  
SEPTEMBER 6, 2023

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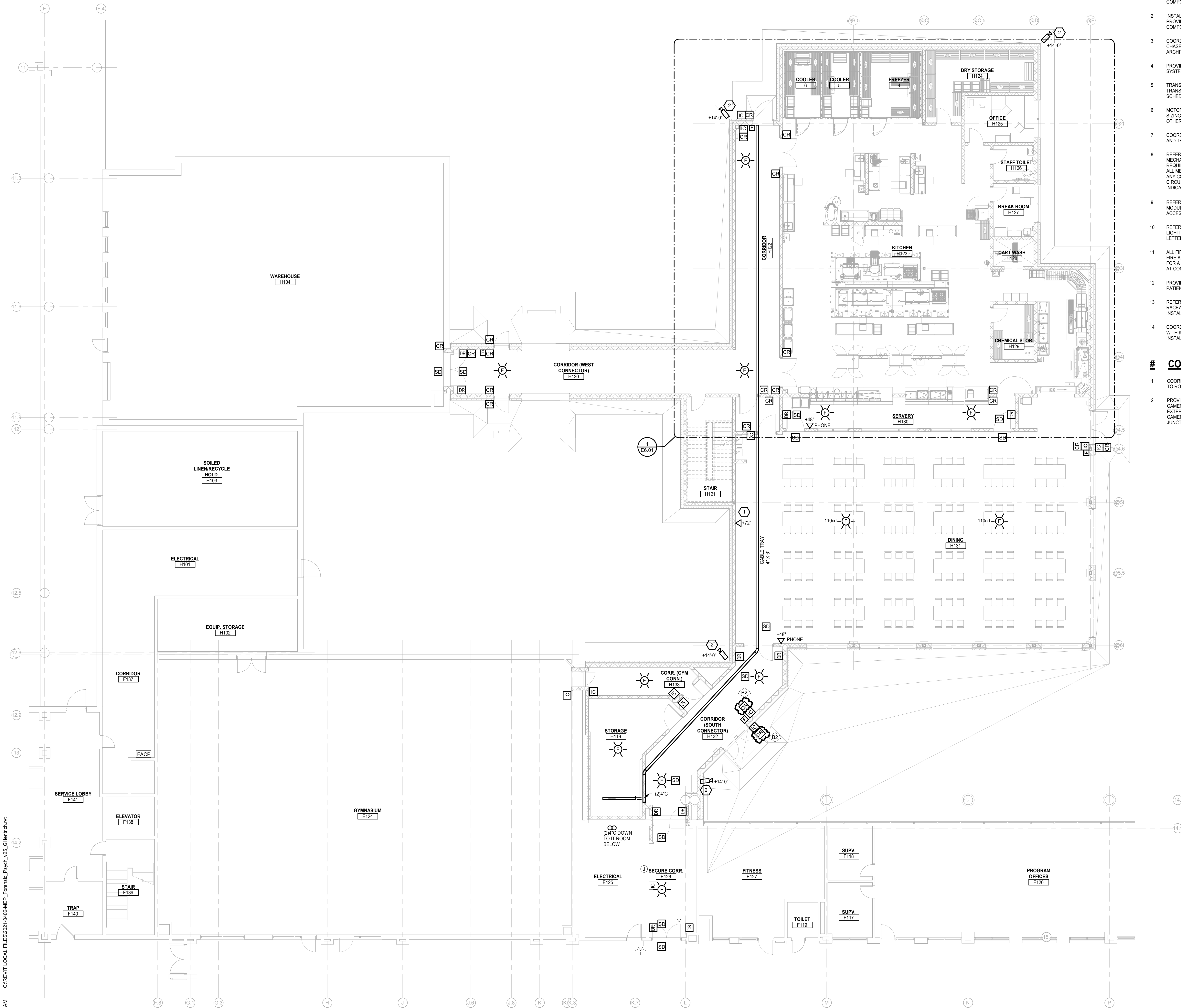
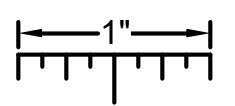


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PBA Project No. 3022-0002



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

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:

- COORDINATE FINAL LOCATION OF TV WITH ARCHITECTURAL DRAWINGS AND TRADES PRIOR TO ROUGH IN.
- 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.

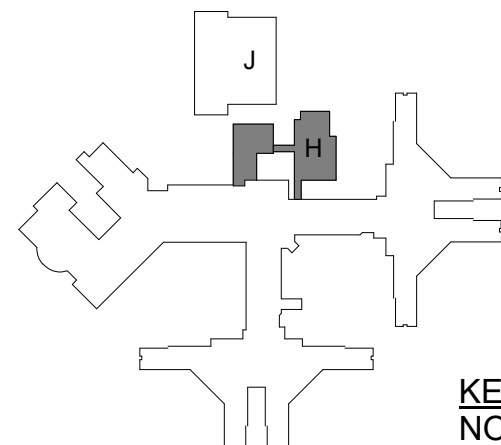
5	BULLETIN NO.2	04/15/25
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1	ADDENDUM #3	09/29/23
NO.	REVISION	DATE



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PROJECT TITLE  
491/20167.SDW - PHASE 500:

**CENTER FOR FORENSIC  
PSYCHIATRY - CREATE  
KITCHEN**

SALINE, MICHIGAN

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

PROJECT NUMBER  
**2021094**

PROJECT DATE  
**SEPTEMBER 6, 2023**

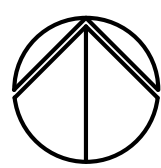
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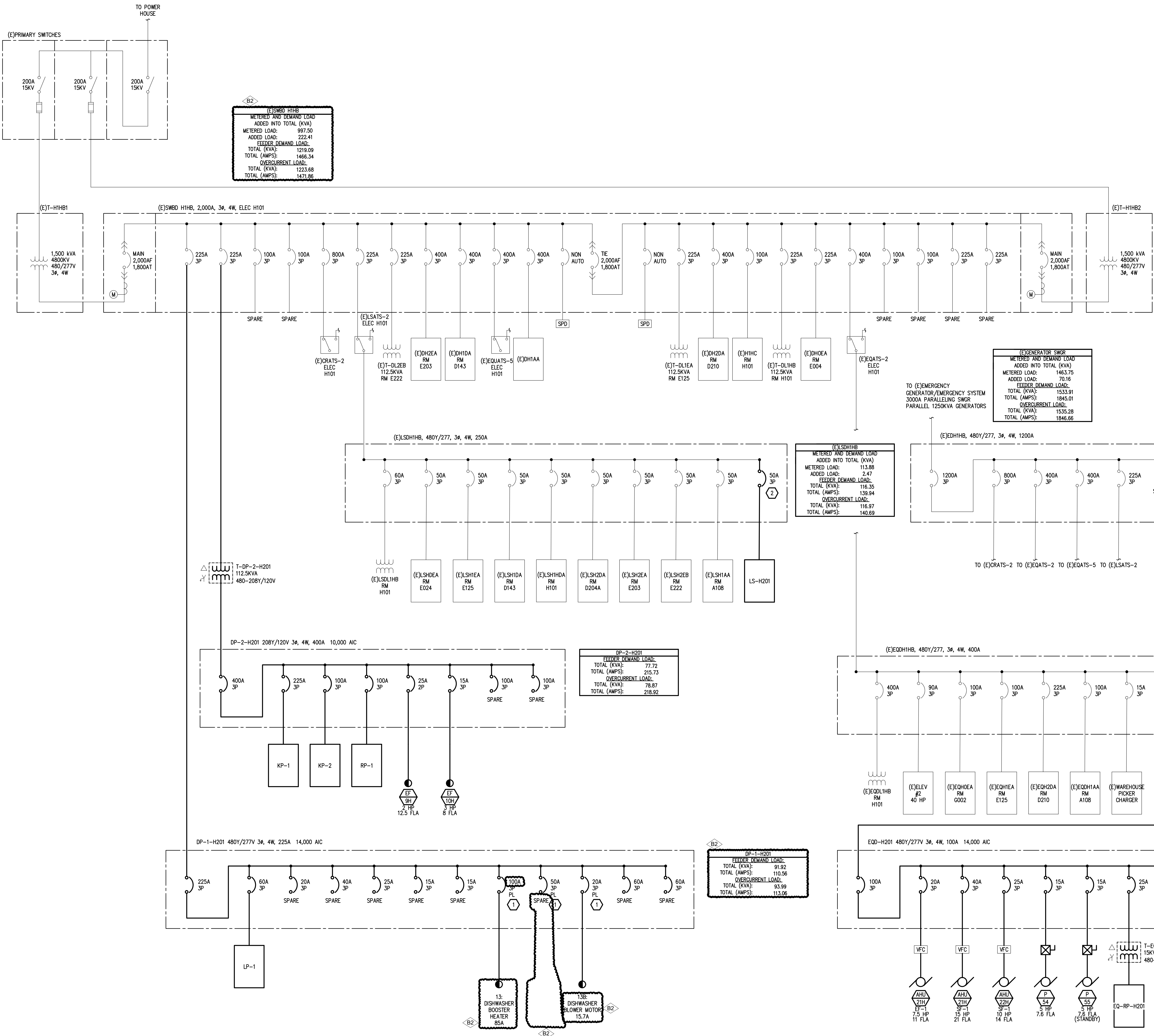
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PBA Project No. 3821-0002



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



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ONE-LINE DIAGRAM - SWITCHBOARD H1HB  
NO SCALE

DIAGRAM 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.
- FEEDER AND BRANCH CIRCUIT CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH THE "FEEDER AND BRANCH CIRCUIT SIZING SCHEDULE-GENERAL PURPOSE" ON THE ELECTRICAL STANDARD SCHEDULES DRAWING UNLESS SPECIFICALLY NOTED OTHERWISE.
- TRANSFORMER SECONDARY CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH THE "TRANSFORMER CIRCUIT SIZING SCHEDULE-GENERAL PURPOSE" ON THE ELECTRICAL STANDARD SCHEDULES DRAWING UNLESS SPECIFICALLY NOTED OTHERWISE.
- MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH THE MOTOR CIRCUIT SIZING SCHEDULES ON THE "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS SPECIFICALLY NOTED OTHERWISE.
- BASIS OF DESIGN IS EATON/CUTLER-HAMMER POW-R-LINE DISTRIBUTION EQUIPMENT. IF THE CONTRACTOR ELECTS TO PROVIDE EQUIPMENT FROM OTHER APPROVED MANUFACTURERS, THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THE LAYOUT AND CLEARANCE REQUIREMENTS IN ALL SPACES CONTAINING ELECTRICAL EQUIPMENT AND PROVIDE EQUIPMENT MEETING THE SPECIFICATIONS AND ACHIEVING CODE REQUIRED CLEARANCES WITHIN THE SPACE PROVIDED.
- VARIABLE FREQUENCY CONTROLLERS (VFC) FURNISHED BY MECHANICAL TRADES. ELECTRICAL CONTRACTOR SHALL INSTALL VFC, PROVIDE POWER FEEDER FROM DISTRIBUTION EQUIPMENT TO VFC AND PROVIDE POWER FEEDER FROM VFC TO MOTOR. REFER TO SPECIFICATIONS FOR APPLICATION OF VFC POWER CABLE FROM VFC TO MOTOR.

CONSTRUCTION KEY NOTES:

- PROVIDE PADLOCKABLE HANDLE.
- PROVIDE NEW CIRCUIT BREAKER IN EXISTING SPACE OF PANEL. EXISTING PANEL IS CUTLER-HAMMER POW-R-LINE FRL4 SERIES.

3	BULLETIN #2	04/15/25
2	BULLETIN #1	01/19/24
1	STATE REVIEW SET	12/20/23
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PROJECT TITLE  
491/20167.SDW - PHASE 500:  
CENTER FOR FORENSIC  
PSYCHIATRY - CREATE  
KITCHEN  
SALINE, MICHIGAN

SHEET TITLE  
ONE LINE DIAGRAM - NEW  
WORK

PROJECT NUMBER 2021094	SHEET NUMBER E5.01
PROJECT DATE AUGUST 23, 2023	
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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	1800		20		85: FOOD PROCESSOR	K	2	
3	K	84: SLICER		20		672	1800	20		69: MIXER, COUNTER	K	4	
5							1439	1199				6	
7	K	66: MIXER, FLOOR		20	1439	1199			20	GFCI	65: CHILLER/FREEZER, BLAST	K	8
9						1439	1199					10	
11							2233	4798				12	
13	K	61: INDUCTION CHARGER	GFCI	20	2233	4798			50		41: UDS SYSTEM	K	14
15						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						432	1428		20		20: ICE MAKER/BIN	K	22
23	K	26: DISPOSER, GARBAGE		15			432	720				24	
25					432	720			15		12: DISPOSER, GARBAGE	K	26
27	K	6: COFFEE MAKER		20		1440	720					28	
29	K	5: CABINET, HEATED PASS-THRU	GFCI	20			1612	780	20		4: DISPLAY, CASE REFRIGERATED	K	30
31					1612	780			20		31: UDS SYSTEM FUEL/SHUNT...	K	32
33	K	65A: CHILLER/FREEZER, BLAST, EVAP	GFCI	20		240	1800		20			34	
35	K	8: SOILED DISHABLE TRAY CONVEYOR	GFCI	20			1560	420	20	GFCI	10: SERVING LINE - COLD FOOD	K	36
37					1560	420			20	GFCI	11C: SERVING LINE - COLD FOOD	K	38
39	--	SPARE	--	20		0	420		20	GFCI	11C: SERVING LINE - COLD FOOD	K	40
41	--	SPARE	--	20		0	0	0	20	--	SPARE	--	42
					21194	18622	18194						
					0A	0B	0C						
PANELBOARD INFORMATION													
VOLTAGE: 208Y/120V		BRANCH CIRCUIT CONNECTED LOAD		CONTINUOUS LOAD (C):		0	100% 0	DEMAND FACTOR		CALCULATED LOAD		FEEDER AND OVERCURRENT...	
BUS AMPACITY: 225A		ELECTRIC HEAT (E):		0		0	100% 0	125% 0		NOTES			
MAIN TYPE: MLO		NON-CONTINUOUS LOAD (NC):		0		0	100% 0	100% 0					
MINIMUM A.I.C.: 10,000		KITCHEN LOAD (K):		58008.54		65.00% 37705.55	100% 37705.55	100% 37705.55					
MOUNTING: SURFACE		RECEPT BASE LOAD (R):		0		100% 0	100% 0	100% 0					
		RECEPT DEMAND LOAD (R):		0		50% 0	100% 0	125% 0					
		LIGHTING LOAD (L):		0		100% 0	100% 0	100% 0					
		ADDITIONAL TRACK LIGHTING...		0		125 % 0	100% 0	100% 0					
PANELBOARD LOCATION		MOTORS, HIGHEST LOAD (M):		0		100 % 0	100 % 0	100 % 0					
		MOTORS, REMAINING		0		100 % 0	100 % 0	100 % 0					
NOTE: DEMAND AND SIZING INFORMATION IS CALCULATED...					TOTAL (kVA): 37.71		TOTAL... 104.66		TOTAL... 104.66				
							TOTAL... 104.66						

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PANELBOARD KP-2													
#	LOAD TYPE	DESCRIPTION	CB TYPE	CB	A	B	C	CB	CB TYPE	DESCRIPTION	LOAD TYPE	#	
1	--	SPARE	--	20	0	0		20	--	SPARE	--	2	
3	--	SPARE	--	20		0	0	20	--	SPARE	--	4	
5	--	SPARE	--	20			0	0	20	--	SPARE	--	6
7	--	SPARE	--	20	0	0		0	20	--	SPARE	--	8
9	R	RECEPTS: H123,H125		20		1080	0		20	--	SPARE	--	10
11	R	RECEPTS: H124,H126,H127		20			1080	1260	20		RECEPTS:H123,H127	R	12
13	R	RECEPTS: H123,H129		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	--	SPARE	--	20		0	0		20	--	SPARE	--	22
23	--	SPARE	--	20			0	0	20	--	SPARE	--	24
25	--	SPARE	--	20	0	1654			20	GFCI	1B:SERVING LINE - HOT/COLD FOOD COMBO	K	26
27	K	1BA: SERVING LINE - H/C FOOD .	GFCI	20		420	1654		20			K	28
29	K	1A:SERVING LINE - HOT FOOD	GFCI	20			1654	1654	20	GFCI	1A:SERVING LINE - HOT FOOD	K	30
31	K	ROOF MECH/ELEC ROOM RECEPTS		20	1654	1654			20			K	32
33	R	ROOF MECH/ELEC ROOM RECEPTS		20		1080	0		20	--	SPARE	--	34
35	--	SPARE	--	20			0	0	20	--	SPARE	--	36
37	--	SPARE	--	20	0	0			20	--	SPARE	--	38
39	--	SPARE	--	20		0	0		20	--	SPARE	--	40
41	--	SPARE	--	20			0	0	20	--	SPARE	--	42
					9461	6226	8347						
					0A	0B	0C						
PANELBOARD INFORMATION													
VOLTAGE: 208Y/120V		BRANCH CIRCUIT CONNECTED LOAD		CONTINUOUS LOAD (C):		1200	100% 1200	DEMAND FACTOR		CALCULATED LOAD		FEEDER AND OVERCURRENT...	
BUS AMPACITY: 100A		ELECTRIC HEAT (E):		0		100% 0	125% 0	125% 0		NOTES			
MAIN TYPE: MLO		NON-CONTINUOUS LOAD (NC):		4200		100% 4200	100% 4200	100% 4200					
MINIMUM A.I.C.: 10,000		KITCHEN LOAD (K):		11613.6		70.00% 8129.52	100% 8129.52	100% 8129.52					
MOUNTING: SURFACE		RECEPT BASE LOAD (R):		7020		100% 7020	100% 7020	100% 7020					
		RECEPT DEMAND LOAD (R):		0		50% 0	100% 0	100% 0					
		LIGHTING LOAD (L):		0		100% 0	125% 0	100% 0					
		ADDITIONAL TRACK LIGHTING...		0		125 % 0	100% 0	100% 0					
PANELBOARD LOCATION		MOTORS, HIGHEST LOAD (M):		0		100 % 0	100 % 0	100 % 0					
		MOTORS, REMAINING		0		100 % 0	100 % 0	100 % 0					
NOTE: DEMAND AND SIZING INFORMATION IS CALCULATED...					TOTAL (kVA): 20.55		TOTAL... 57.04		TOTAL... 57.87				

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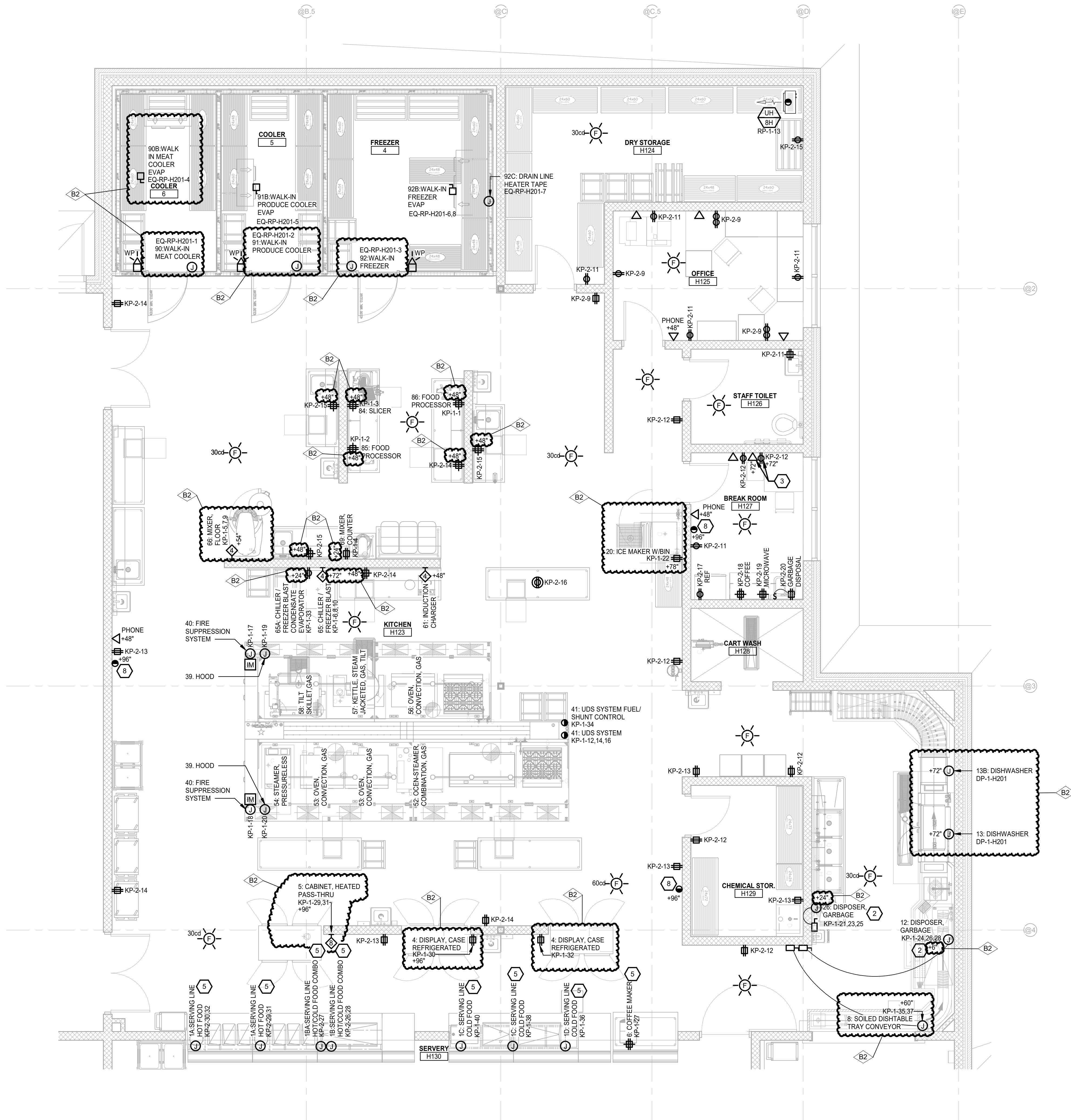
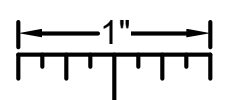
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PANELBOARD RP-1														
#	LOAD TYPE	DESCRIPTION	CB TYPE	CB	A	B	C	CB	CB TYPE	DESCRIPTION	LOAD TYPE	#		
1	R	RECEPTS: H119,H131,EXT. ROOF		20	1260	1260		20		RECEPTS: H131,H132,H133,EXT	R	2		
3	R	RECEPTS: H131,H120		20		1080	1080	20		RECEPTS: H107,H130,H131,EXT	R	4		
5	R	RECEPTS: H122,EXT		20			360	0	20	--	SPARE	--	6	
7	--	SPARE	--	20	0	0			20	--	SPARE	--	8	
9	--	SPARE	--	20		0	600		20		NORTH OVERHEAD DOOR,H120	M	10	
11	M	SOUTH OVERHEAD DOOR: H120		20			600	1000	20		FIRE ALARM NAC: H201	C	12	
13	M	UH-8H: H124		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	M	CUH-4H: H131		15	528	528			15		EF-5H: ROOF	M	20	
21	--	SPARE	--	20		0	528		15		EF-7H: ROOF	M	22	
23	--	SPARE	--	20			0	528	15		EF-8H: ROOF	M	24	
25	M	CUH-11H: H119		15	528	0			20	--	SPARE	--	26	
27	--	SPARE	--	20		0	0		20	--	SPARE	--	28	
29	--	SPARE	--	20				0	0	20	--	SPARE	--	30
31	--	SPARE	--	20	0	0			20	--	SPARE	--	32	
33	--	SPARE	--	20		0	0		20	--	SPARE	--	34	
35	--	SPARE	--	20				0	0	20	--	SPARE	--	36
37	--	SPARE	--	20	0	0	0		20	--	SPARE	--	38	
39	--	SPARE	--	20			0	0	20	--	SPARE	--	40	
41	--	SPARE	--	20				0	0	20	--	SPARE	--	42
					5160	4344	3544							
					0A	0B	0C							
PANELBOARD INFORMATION				BRANCH CIRCUIT CONNECTED LOAD				DEMAND FACTOR		CALCULATED LOAD		FEEDER AND OVERCURRENT...		NOTES
VOLTAGE:		208Y/120V		CONTINUOUS LOAD (C):		1000		100% 1000		125% 1250				
BUS AMPACITY:		100A		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):		0		100% 0		100% 0				
MOUNTING:		SURFACE		RECEPT BASE LOAD (R):		5040		100% 5040		100% 5040				
				RECEPT DEMAND LOAD (R):		0		50% 0		100% 0				
				LIGHTING LOAD (L):		0		100% 0		125% 0				
				ADDITIONAL TRACK LIGHTING...		0				100% 0				
				MOTORS, HIGHEST LOAD (M):		600		125 % 750		100% 750				
				MOTORS, REMAINING		6408		100 % 6408		100 % 6408				
<u>PANELBOARD LOCATION</u>				NOTE: DEMAND AND SIZING INFORMATION IS CALCULATED...				TOTAL (kVA): 13.2						
								TOTAL... 36.63				TOTAL... 37.33		

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THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.



1 FIRST FLOOR ELECTRICAL ENLARGED KITCHEN PLAN  
E3.01 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:

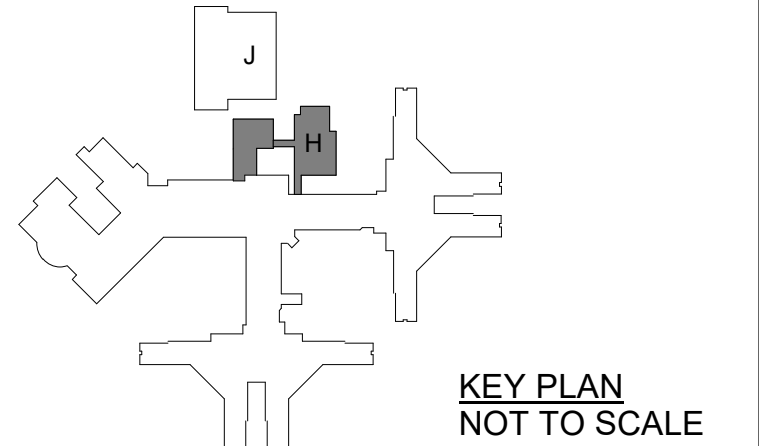
- PROVIDE TOGGLE SWITCH LOCK GUARD FOR BOILER DISCONNECT LOCKING MEANS.
- PROVIDE INTERWIRE TO CONTROL PANEL. COORDINATE WITH FOOD SERVICE INSTALLER AND INSTALLATION INSTRUCTIONS.
- COORDINATE FINAL LOCATION OF TV WITH ARCHITECTURAL DRAWINGS AND TRADES PRIOR TO ROUGH IN.
- INSTALL BOTTOM OF LIGHT FIXTURE 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.

5	BULLETIN NO.2	04/15/25
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
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KEY PLAN  
NOT TO SCALE



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 E6.01
PROJECT DATE SEPTEMBER 6, 2023	
CHECKED BY TLC	



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PBA Project No. 3002-0002