



## WTA ARCHITECTS

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### BULLETIN NO. 1

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

WTA Project No. 2021094  
January 08, 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 A2.01 <b>(Re-Issued)</b><br>A. Added smoke area #13 with new smoke barrier between kitchen and corridors.                                                                                                                                                                                                                                                        |
| Item A2 | Reference Sheets A2.01, A2.02, & A3.01 <b>(Re-Issued)</b><br>A. Revised rated walls in Stair (H121), Stair (H200.A), (Kitchen (H123), Dry Storage (H124), and Storage (H119).<br>B. Revised fire ratings for doors H121.A, H122.A, H122.B, H122.C, H124.A, H132.B, & H200.A.<br>C. Added smoke area #13 and revised smoke area #12.                                               |
| Item A3 | Reference Sheets A2.01, A2.02, A2.21, & A9.01 <b>(Re-Issued)</b><br>A. Revised door H132.A to be double-egress doors (refer to Structural).                                                                                                                                                                                                                                       |
| Item A4 | Reference Sheets A2.21 <b>(Re-Issued)</b><br>A. Added notes to provide CMU infill above new door.<br>B. Field Condition Clarifications: Revise location of west wall of Corridor Connector (H132) to be flush with edge of existing window as indicated on re-issued sheet.<br>C. Field Condition Clarifications: Revise location of door H120.A as indicated on re-issued sheet. |

#### STRUCTURAL

- |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Item S1 | Reference Sheets S2.01, S2.02, S5.01, & S7.01 <b>(Re-Issued)</b><br>A. Add deck edge angles and detail for corridor ends.<br>B. Clarification: remove erroneous mechanical lintel callouts.<br>C. Reduction of steel members at Line @C following shop drawing review.<br>D. Stair framing changes following shop drawing review.<br>E. Addition of tube steel member at stair tower for brick support.<br>F. Additional bracing angles at top of column @2-@C.<br>G. Steel support frames for existing AC unit relocation to ex building roof. |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

WIGEN  
TINCKNELL  
ASSOCIATES  
ARCHITECTS

SPACE SOLVED.

CENTER FOR FORENSIC PSYCHIATRY- CREATE KITCHEN  
BULLETIN NO. 1  
JANUARY 08, 2025  
PAGE 2



MECHANICAL

- Item M1      Reference Sheet M3.01 **(Not Re-Issued)**  
A. RFI #10 changed the RCP length. "Provide 9'-8" RCP's with 2' of spacing as recommended."
- Item M2      Reference Sheet M7.03 **(Re-Issued)**  
B. Increase pump HP for P-54 and P-55.
- Item M3      Reference Sheet M8.04 **(Not Re-Issued)**  
C. Line #1 from HWH sequence of operation needs to be removed. Boiler is always active due to VAV box reheat.

ELECTRICAL

- Item E1      Reference Sheet E5.01 **(Re-issued)**  
A. Increase pump HP and FLA for P-54 and P-55.

END OF BULLETIN NO. 1

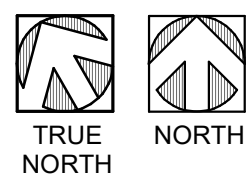
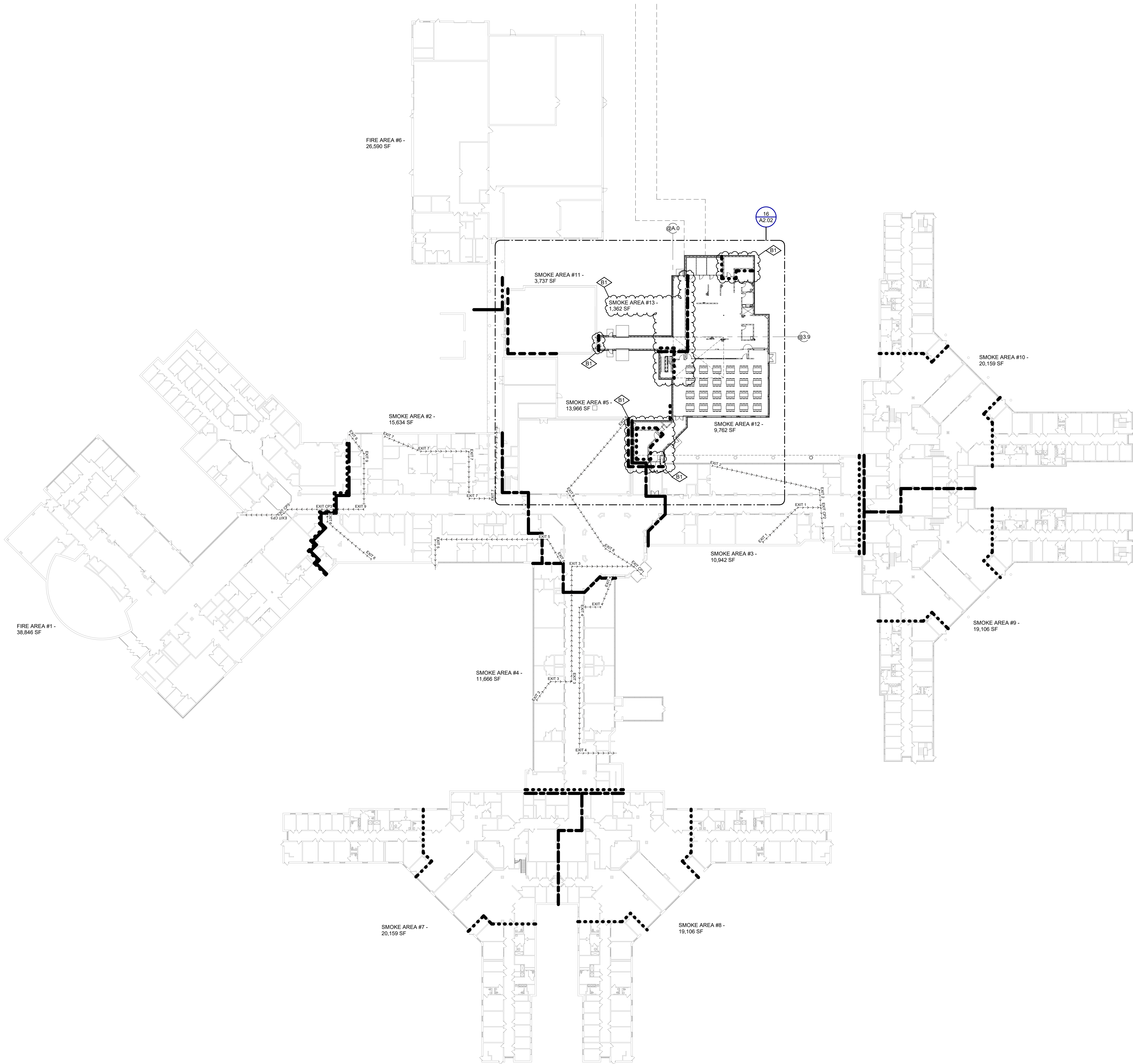
**WTA ARCHITECTS**

Cariann Davitt Schartow

Attachments: Sheets A2.01, A2.02, A2.21, A3.01, A9.01, S2.01, S2.02, S5.01, S7.01, M7.03, & E5.01

Cc:     Antler Construction Company, Inc.  
         Department of Technology, Management and Budget  
         Peter Basso Assoc., Inc.  
         MacMillian Assoc., Inc.  
         WTA Architects  
         CommTech Design  
         Stafford Smith  
         ROWE Professional Services Company

AutoCAD 2023 10/11/23 1:00 PM C:\Users\mfm\Documents\Center\Center\2021094\p\_02\_01\_14\_02\_1001\FIRST FLOOR.MXD



FIRST FLOOR CODE MASTER PLAN

SCALE: 1/32" = 1'-0"

CODE LEGEND

- 3-HOUR BUILDING SEPARATION
- 2-HOUR BARRIER
- 1-HOUR ENCLOSURE / FIRE RESISTANCE RATING
- 1-HOUR SMOKE BARRIER
- TRAVEL DISTANCE
- 100% SPRINKLED
- DF DRINKING FOUNTAIN
- FE FIRE EXTINGUISHER
- 724 OCCUPANT LOAD
- # EXIT CAPACITY

CODE PLAN EGRESS PATH LENGTH		
PATH ID	LENGTH	
EXIT CP1	111'	
EXIT CP2	26'	
EXIT CP3	71'	
EXIT 1	58'	
EXIT 2	102'	
EXIT 3	177'	
EXIT 4	187'	
EXIT 5	134'	
EXIT 6	56'	
EXIT 7	186'	
EXIT 8	156'	
EXIT 9	93'	

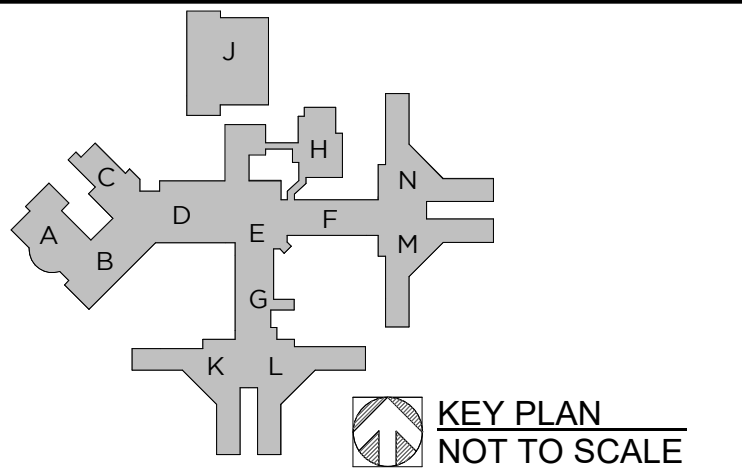
NOTE: CP = COMMON PATH

NO.	REVISION	DATE
B1	BULLETIN NO 1	01/08/25

STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
FACILITIES AND BUSINESS SERVICES ADMINISTRATION  
DESIGN AND CONSTRUCTION DIVISION  
ADAM LACER, P.E., DIRECTOR

FILE NO.  
491/20167.SDW

FUNDING CODE 171CODHHS7255	CONTRACT NO. Y22003
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KEY PLAN  
NOT TO SCALE

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

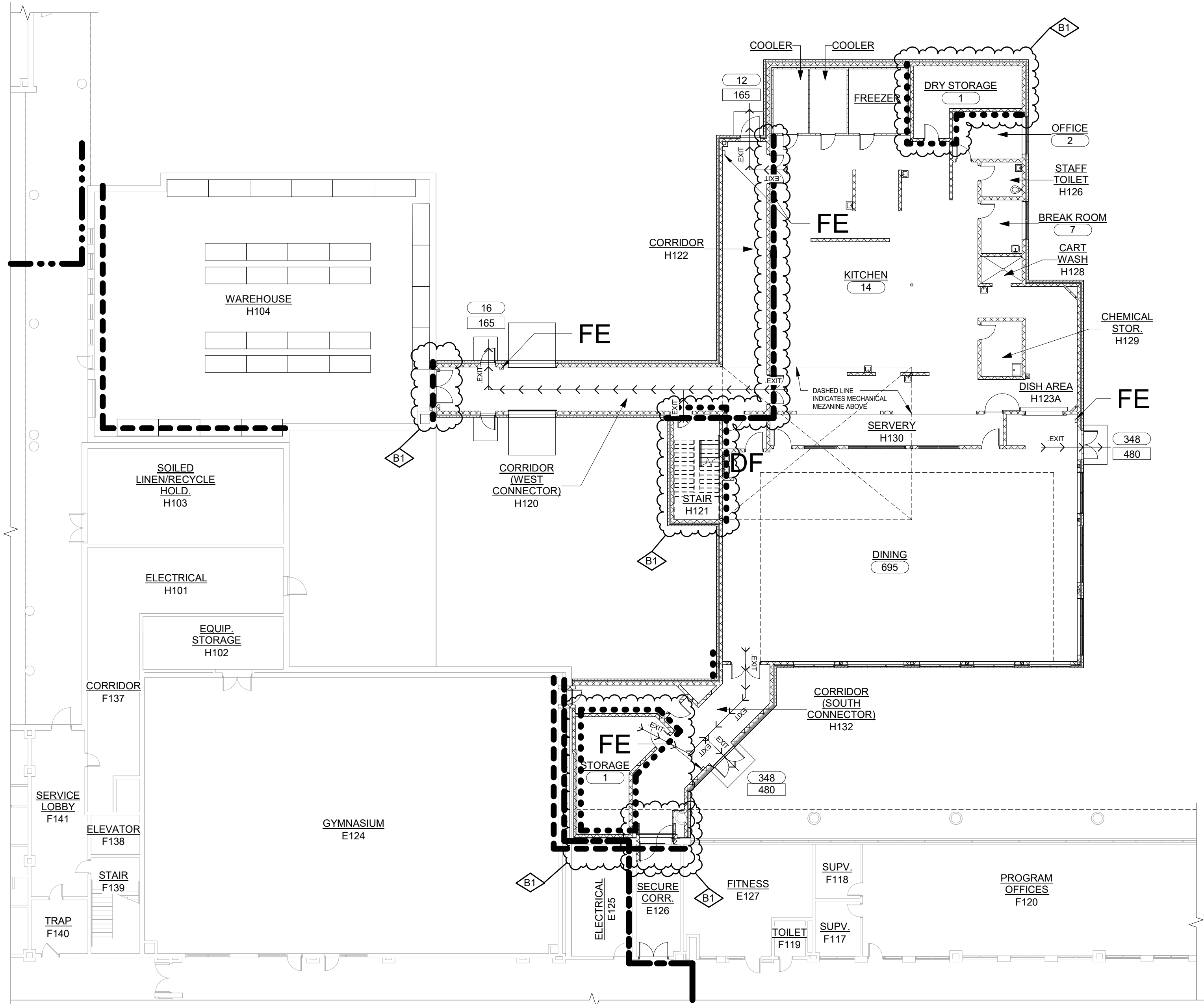
SHEET TITLE  
FIRST FLOOR MASTER  
CODE AND TEMPORARY  
EGRESS PLAN

PROJECT NUMBER 2021094	SHEET NUMBER A2.01
PROJECT DATE SEPTEMBER 6, 2023	
CHECKED BY C.D.S.	

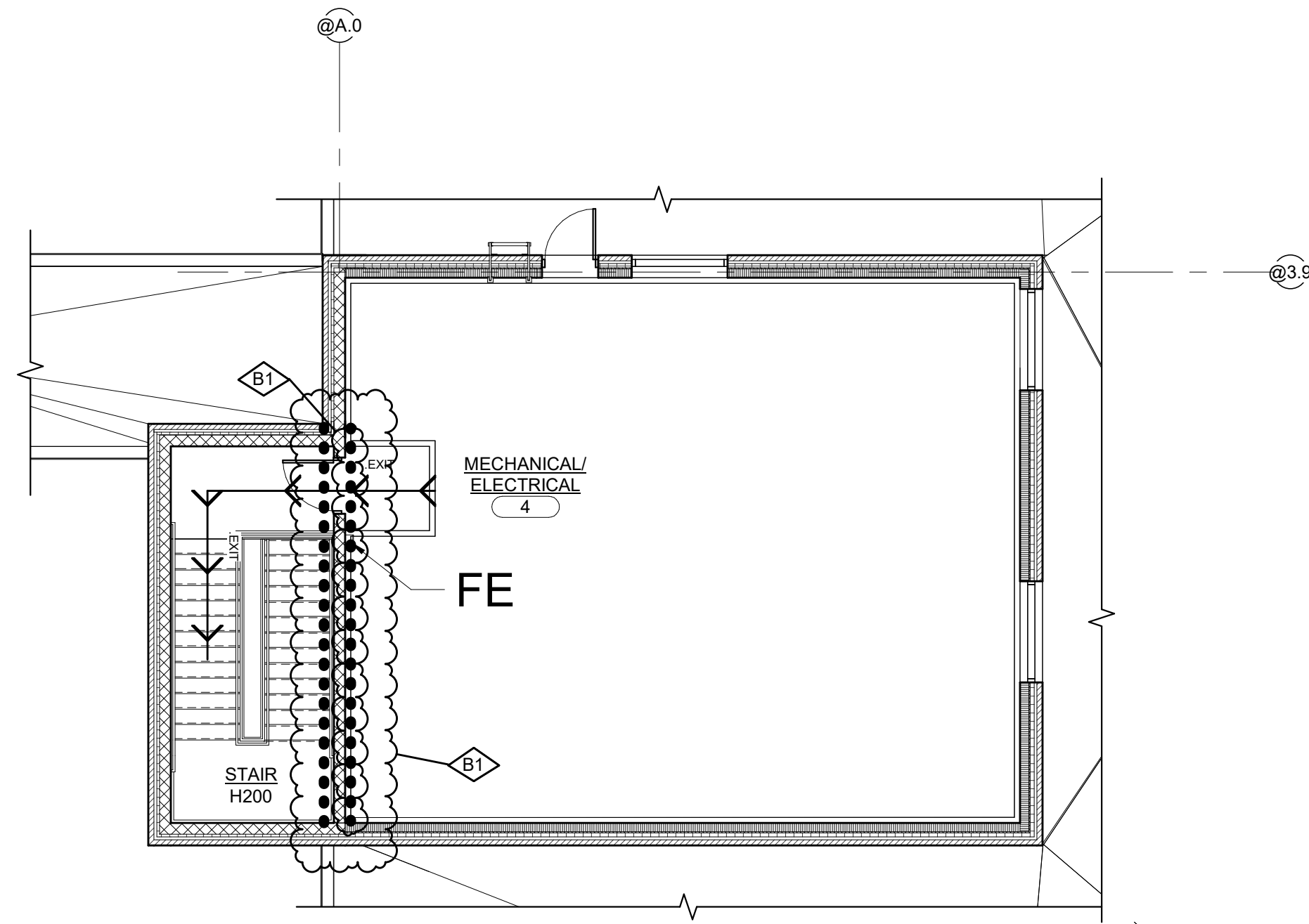


AutoCAD2025 5/8/17 PM C:\Users\mfm\Documents\Center\Center 2021094.dwg, V01\_5114.dwg, 1st Floor Partial

CENTER FOR FORENSIC PSYCHIATRY - BUILDING CODE NOTES				
CODE REFERENCE	2012 NFPA 2015 MICHIGAN BUILDING CODE ANSI A117.1 2015 PLUMBING CODE 2015 ELECTRICAL CODE 2015 MECHANICAL CODE			
DESCRIPTION	REFERENCE	EXISTING	NEW ADDITION	REMARKS
OCCUPANCY CLASSIFICATION	MBC 303.3 / 308.4	I-2 CONDITION 1	A-2	ASSEMBLY - DINING FACILITY & ASSOCIATED KITCHEN / INSTITUTIONAL - PSYCHIATRIC HOSPITAL
CONSTRUCTION TYPE	MBC 601	IB	IIB	TYPE IIB: RATING FOR BLDG ELEMENTS = 0-HOUR TYPE IB: RATING FOR BLDG ELEMENTS = 2-HOUR EXCEPTION: NONBEAR INT WALLS = 0-HOUR ROOF = 1-HOUR
NONBEARING EXTERIOR WALL SEPARATION	MBC 602	IB1 > 30 FT = 0-HOUR	IIB.A = 0-HOUR	
FEATURES OF FIRE PROTECTION		FULLY SPRINKLED		
BUILDING HEIGHT	MBC 504.4	ALLOWED - 5 STORIES - 180 FT.	ALLOWED - 3 STORIES - 75 FT.	A-2: ACTUAL - 1 STORY - 18 FT.
BUILDING AREA	MBC 506.2	UNLIMITED	ALLOWED - 38,000 S.F.	A-2: ACTUAL - 11,124 S.F.
SEPARATED OCCUPANCIES	MBC 508.4	I-2	A-2	2-HOUR FIRE BARRIER SEPARATION TO COMPLY WITH A-2 REQUIREMENTS
INCIDENTAL USE AREAS	MBC 509	FURNACE ROOM WITH >400,000 BTU PER HOUR INPUT = 1 HOUR OR SPR. BOILER ROOMS >15 PSI OR 10 HORSEPOWER = 1 HOUR OR SPR.  LAUNDRY ROOM > 100 S.F. = 1-HOUR LABS = 1-HOUR & SPR. PHY PLANT MAINT SHOPS = 1-HOUR	LAUNDRY ROOM > 100 S.F. = 1-HOUR OR SPR.	BUILDING FULLY SPRINKLERED
FIRE BARRIERS	MBC 707	SEPARATED OCCUPANCIES		CONTINUITY: TOP OF FND OR FLR/CLG ASSEMBLY TO UNDERSIDE OF FLR OR ROOF ABOVE - CONT THRU OUT CONCEALED SPACES
INTERIOR WALL/CEILING FINISHES	MBC TABLE 803.11	INTERIOR EXIT STAIRWAYS - B CORRIDORS - B		
		ROOMS AND ENCLOSED SPACES - B ADMIN - C ≤ 4 OCC - C	ROOMS AND ENCLOSED SPACES - C	
OCCPANT LOAD	MBC 1004.1.2	STOR/MECH 1,300 S.F. (GROSS) WAREHOUSE 1/500 S.F. (GROSS)		A-2 : TOTAL OCCUPANTS = 718
		INPAT 1,240 S.F. (GROSS) SLEEPING 1/120 S.F. (GROSS)	KITCHEN 1,200 S.F. (GROSS) DINING ROOM/SERVING 15 S.F. (NET)	
FIRE EXTINGUISHERS	NFPA 10	75' MAXIMUM DISTANCE APART		
COMMON PATH EGRESS TRAVEL	MBC 1006.2.1	75'		THAT PORTION OF THE EXIT ACCESS TRAVEL DISTANCE MEASURED FROM THE MOST REMOTE POINT WITHIN A STORY TO THAT POINT WHERE THE OCCUPANTS HAVE SEPARATE AND DISTINCT ACCESS TO TWO EXITS OR EXIT ACCESS DOOR-WAYS.
NUMBER OF EXITS	MBC 1006.3.1		REQUIRED: (1) KITCHEN (2) DINING	PROVIDED: (2) DINING ROOM (2) KITCHEN
EXIT ACCESS TRAVEL DISTANCE	MBC 1017.2	200 FT.	250 FT.	
CORRIDOR FIRE RESISTANCE	MBC 1020.1	w/ SPRINKLER = 0 HOUR		FULLY SPRINKLERED
MINIMUM CORRIDOR WIDTH	MBC 1020.2	MIN. 44 INCHES		
		MIN. 96 INCHES FOR BED CLEARANCE		
DEAD END CORRIDORS	MBC 1020.4	20 FT.		
ACCESSIBILITY	MBC 1101.2		DESIGNED AND CONSTRUCTED TO BE ACCESSIBLE	
PLUMBING FIXTURES	MPC TABLE 403.1		NO ADDITIONAL STAFF OR PATIENTS ARE BEING ADDED TO THE FACILITY	
ENERGY EFFICIENCY	MEC		ROOF - INSULATION ENTIRELY ABOVE DECK = R-30 GJ WALLS - MASS = R-11.4 C.I. SLAB ON GRADE = R-15 FOR 24IN.	



16  
AZ.02  
FIRST FLOOR CODE PLAN  
SCALE: 1/16" = 1'-0"



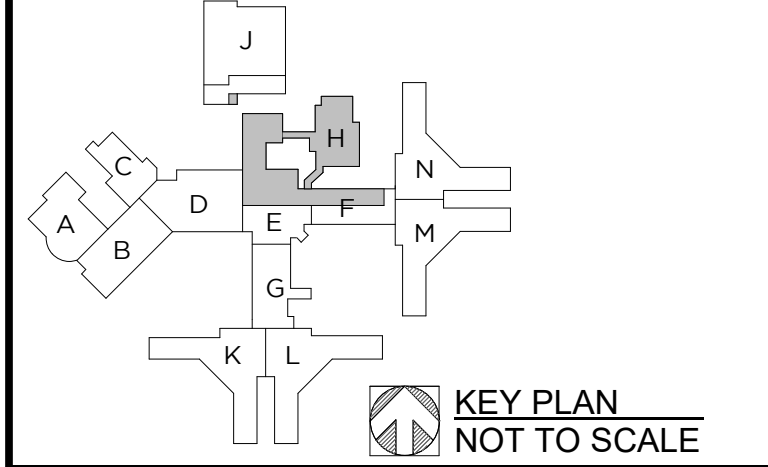
28  
AZ.02  
SECOND FLOOR CODE PLAN  
SCALE: 1/8" = 1'-0"

CODE LEGEND	
	3-HOUR BUILDING SEPARATION
	2-HOUR BARRIER
	1-HOUR ENCLOSURE / FIRE RESISTANCE RATING
	1-HOUR SMOKE BARRIER
	TRAVEL DISTANCE
	100% SPRINKLED
<b>DF</b>	DRINKING FOUNTAIN
<b>FE</b>	FIRE EXTINGUISHER
	OCCUPANT LOAD
	EXIT CAPACITY

B1	BULLETIN NO 1	01/08/25
NO.	REVISION	DATE



FILE NO. 491/20167.SDW	CONTRACT NO. Y22003
FUNDING CODE 171CODHHS7255	



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

SHEET TITLE  
FIRST FLOOR PARTIAL CODE PLAN

PROJECT NUMBER 2021094	SHEET NUMBER A2.02
PROJECT DATE SEPTEMBER 6, 2023	
CHECKED BY C.D.S.	



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.

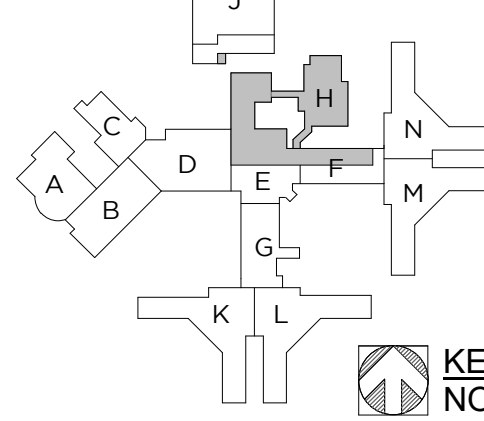
NO.	REVISION	DATE
B1	BULLETIN NO 1	01/08/25



FILE NO.  
491/20167.SDW

FUNDING CODE  
171CODHHS7255

CONTRACT NO.  
Y22003



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PROJECT TITLE  
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CENTER FOR FORENSIC  
PSYCHIATRY - CREATE  
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SALINE, MICHIGAN

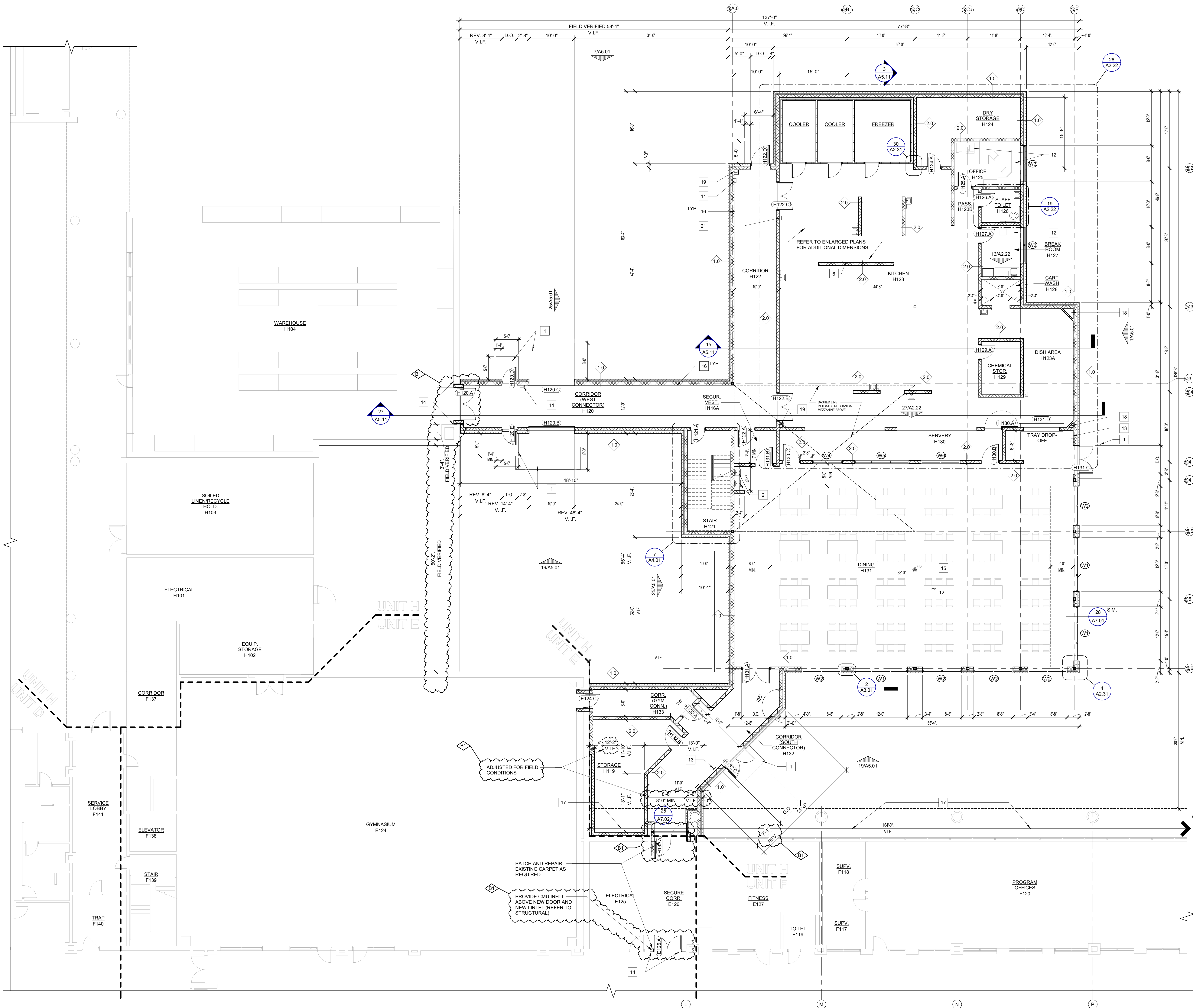
SHEET TITLE  
**FIRST FLOOR  
CONSTRUCTION PLAN**

PROJECT NUMBER  
2021094

PROJECT DATE  
SEPTEMBER 6, 2023

CHECKED BY  
C.D.S.

SHEET NUMBER  
**A2.21**



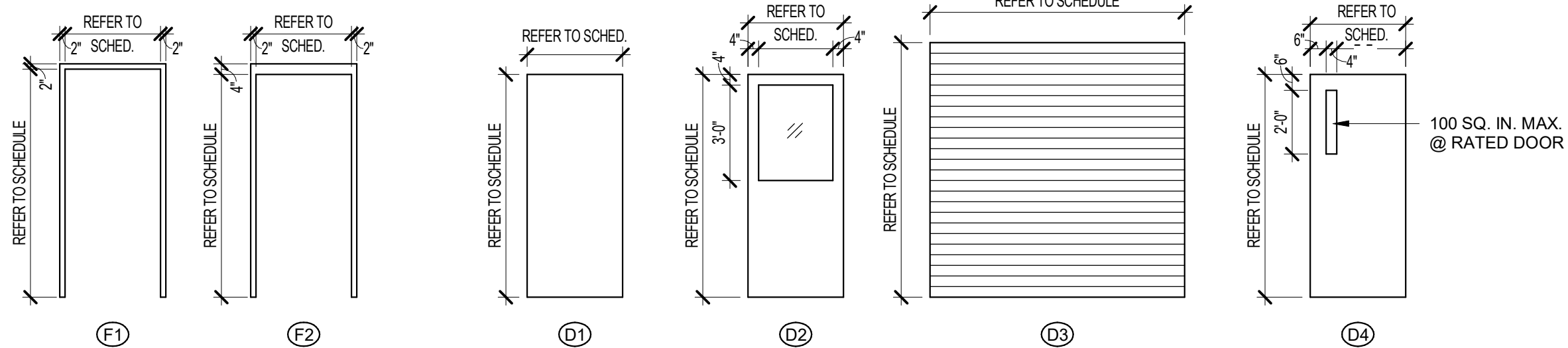
**FIRST FLOOR CONSTRUCTION PLAN**  
SCALE: 1/8" = 1'-0"  
NORTH



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	EXISTING	EXIST.	EXIST.	PAINT	EXIST. / C.M.U.	PAINT	EXIST.	PAINT	EXIST.	PAINT	EXIST.	PAINT	EXIST.	EXIST.		O
E126	SECURE CORR.	EXIST. / CORR.	EXIST. / R.W.B.	EXIST. / C.M.U.	PAINT	EXIST.	PAINT	EXIST.	PAINT	EXIST.	PAINT	EXIST.	PAINT	EXIST.	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	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		L
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"	
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	EXP.	EPOXY PAINT		
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		WIDTH	HEIGHT	THK.	MAT.	H.M.	FRAME		DETAILS		SILL	FIRE RATING		REMARKS	
		PAIR	W						TYPE	MAT.	TYPE	HEAD		JAMB	LABEL		MIN.
E124.C	CORR. (GYM CONN.)			3'-0"	7'-0"	1 3/4"	H.M.	D2	H.M.	F2	27/A7.02 SIM	11/A2.31	30/A7.02 SIM.		90	A, B, C, 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	--		20	B, C, D, G, V	
H120.A	CORR. (W. CONN.)	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	CORR. (W. CONN.)			10'-0"	8'-0"	1 3/8"	STEEL	D3	STEEL	-	27/A3.01	28/A3.01	--			H	
H120.C	CORRIDOR (WEST CONNECTOR)					1 3/8"	STEEL	D3	STEEL	-	27/A3.01	28/A3.01	--			H	
H120.D	CORR. (W. CONN.)			3'-0"	7'-2"	1 3/4"	H.M.	D2	H.M.	F1	21/A3.01	29/A2.31 SIM	--	B1		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	--			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	--			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	--			C, G, R, Y	
H122.C	CORRIDOR	X		3'-0"	7'-2"	1 3/4"	WD.	D2	H.M.	F1	30/A3.01	6/A2.31	--	B1		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	--			C, 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	--		45	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	CORR. (S. CONN.)	X		3'-0"	7'-2"	1 3/4"	WD.	D2	H.M.	F1	20/A3.01	6/A2.31	--			B, H, S	
H131.B	CORR. (S. CONN.)			3'-0"	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.	F1	29/A3.01	5/A2.31	--	B1		A, D, E, G, U	
H131.D						1/2"	STEEL	D3	STEEL	-	26/A3.01	26/A2.31	26/A3.01			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		90	B, H, V	
H132.B	STORAGE			3'-8"	7'-2"	1 3/4"	H.M.	D1	H.M.	F1	20/A3.01	6/A2.31	--		45	A, H	
H132.C	CORRIDOR (SOUTH CONNECTOR)	X		3'-0"	7'-2"	1 3/4"	D.H.M.	D2	D.H.M.	F1	21/A3.01	5/A2.31	--	B1		A, 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	--			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	60	A, H, R, W	
H201.A	STAIR			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
PAINT - CEILINGS	SHERWIN-WILLIAMS		SW1004 PURE WHITE		COLOR: HEMP 27, 1/3 ASHLAR LAYING PATTERN
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	PERFUSION	WHITE	24"x24"	
SAT-2 - SUSPENDED ACOUSTIC TILE	ARMSTRONG	KITCHEN ZONE	WHITE	24"x24"	

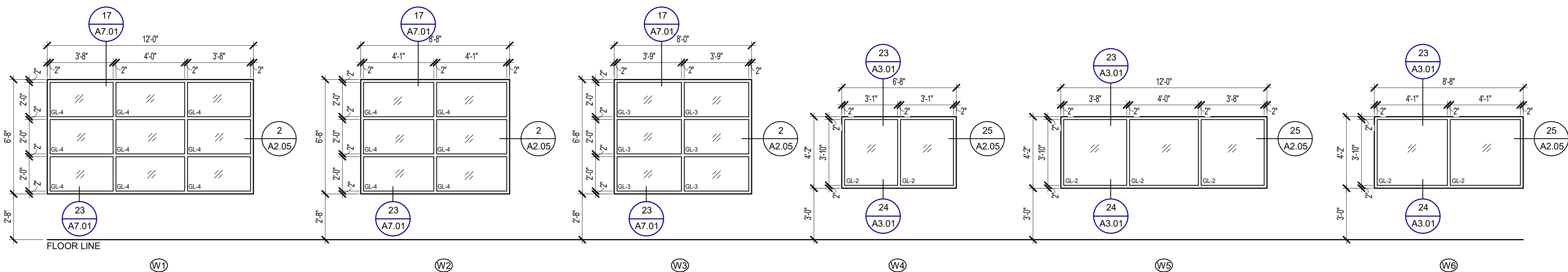


#### DOOR FRAMES

1/4" = 1'-0"

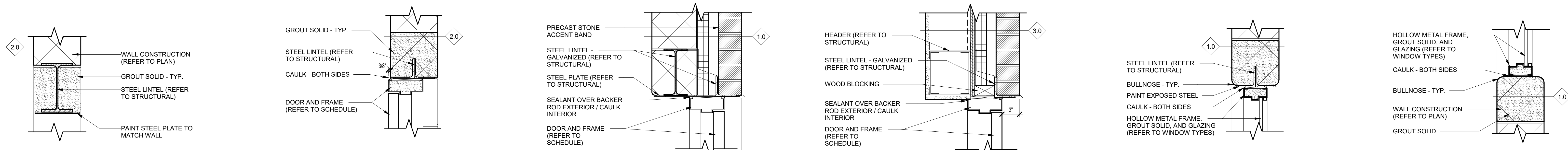
#### DOOR TYPES

1/4" = 1'-0"



#### WINDOW TYPES

1/4" = 1'-0"



19  
A3.01  
OPENING HEAD DETAIL @ SERVERY  
SCALE: 1 1/2" = 1'-0"

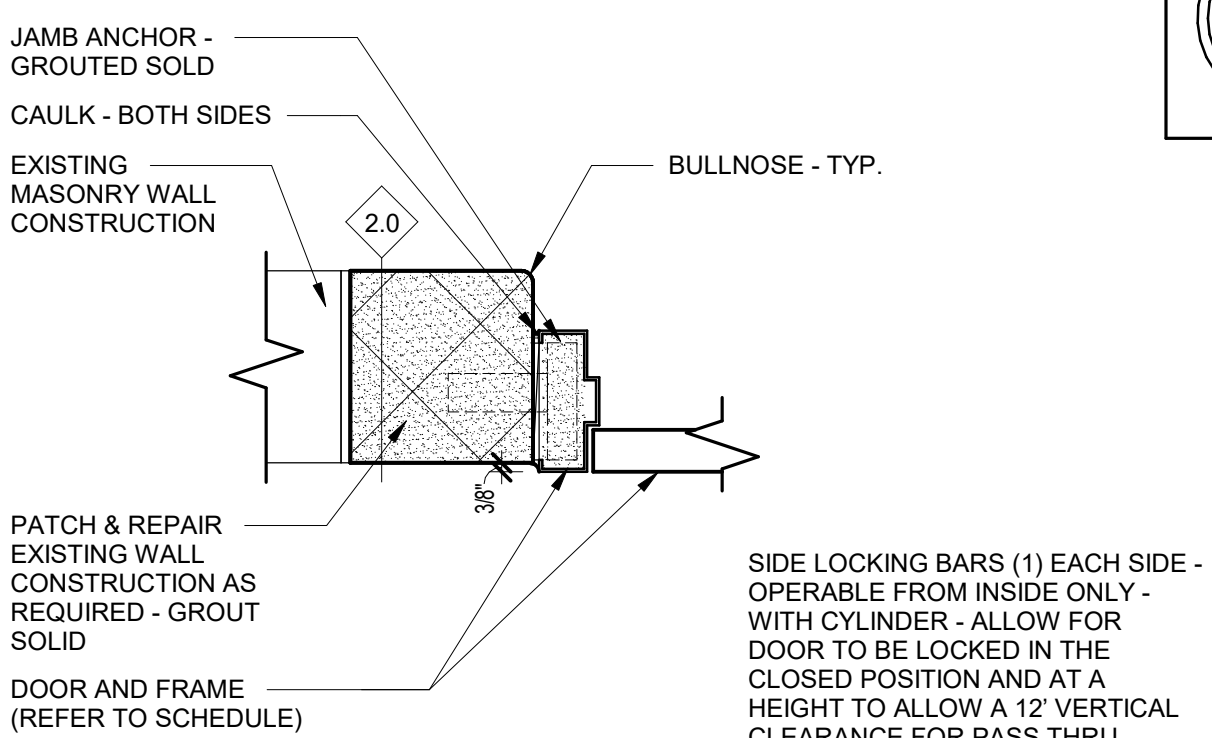
20  
A3.01  
TYP. INT DOOR HEAD DETAIL  
SCALE: 1 1/2" = 1'-0"

21  
A3.01  
TYP. EXT DOOR HEAD DETAIL  
SCALE: 1 1/2" = 1'-0"

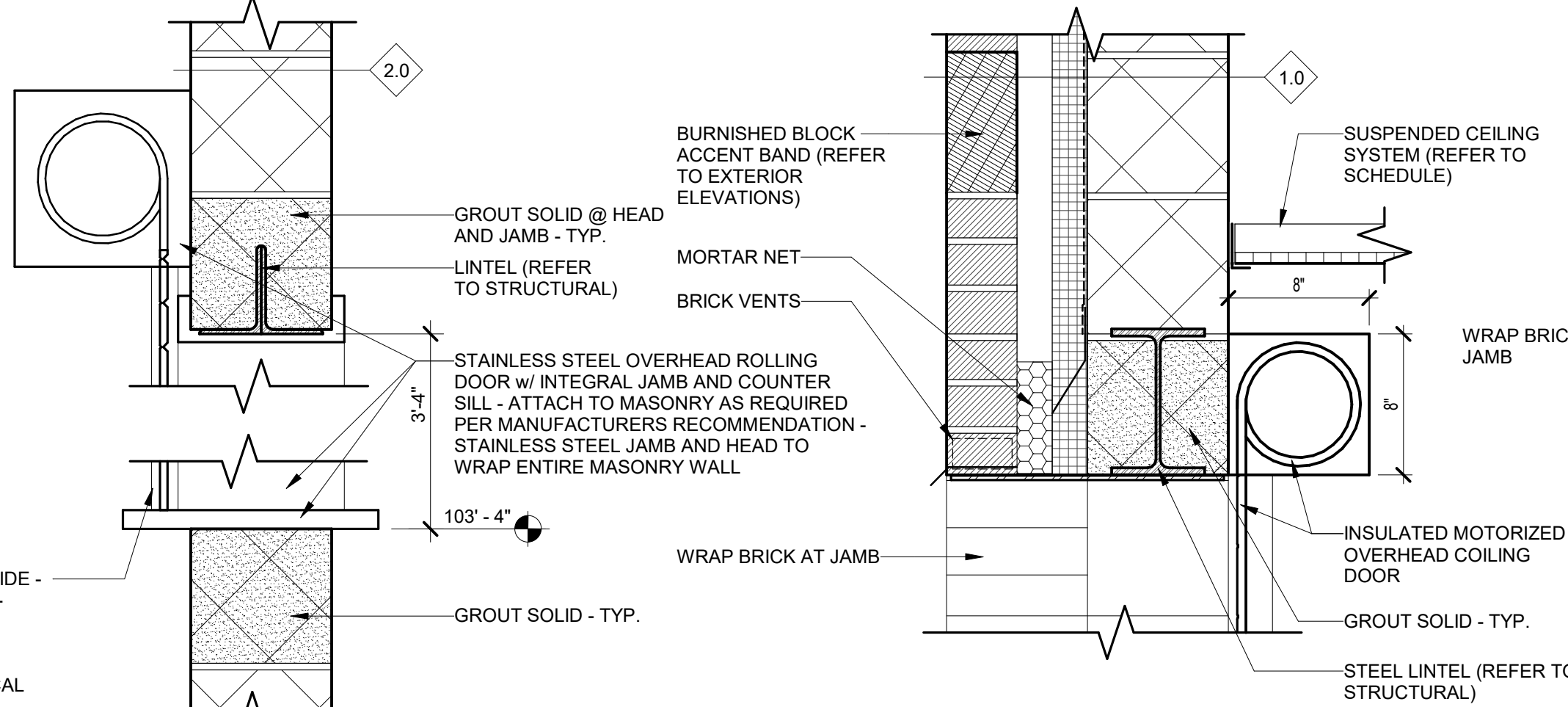
22  
A3.01  
DOOR HEAD DETAIL @ MECHANICAL / ELECTRICAL  
SCALE: 1 1/2" = 1'-0"

23  
A3.01  
TYP. WINDOW HEAD DETAIL  
SCALE: 1 1/2" = 1'-0"

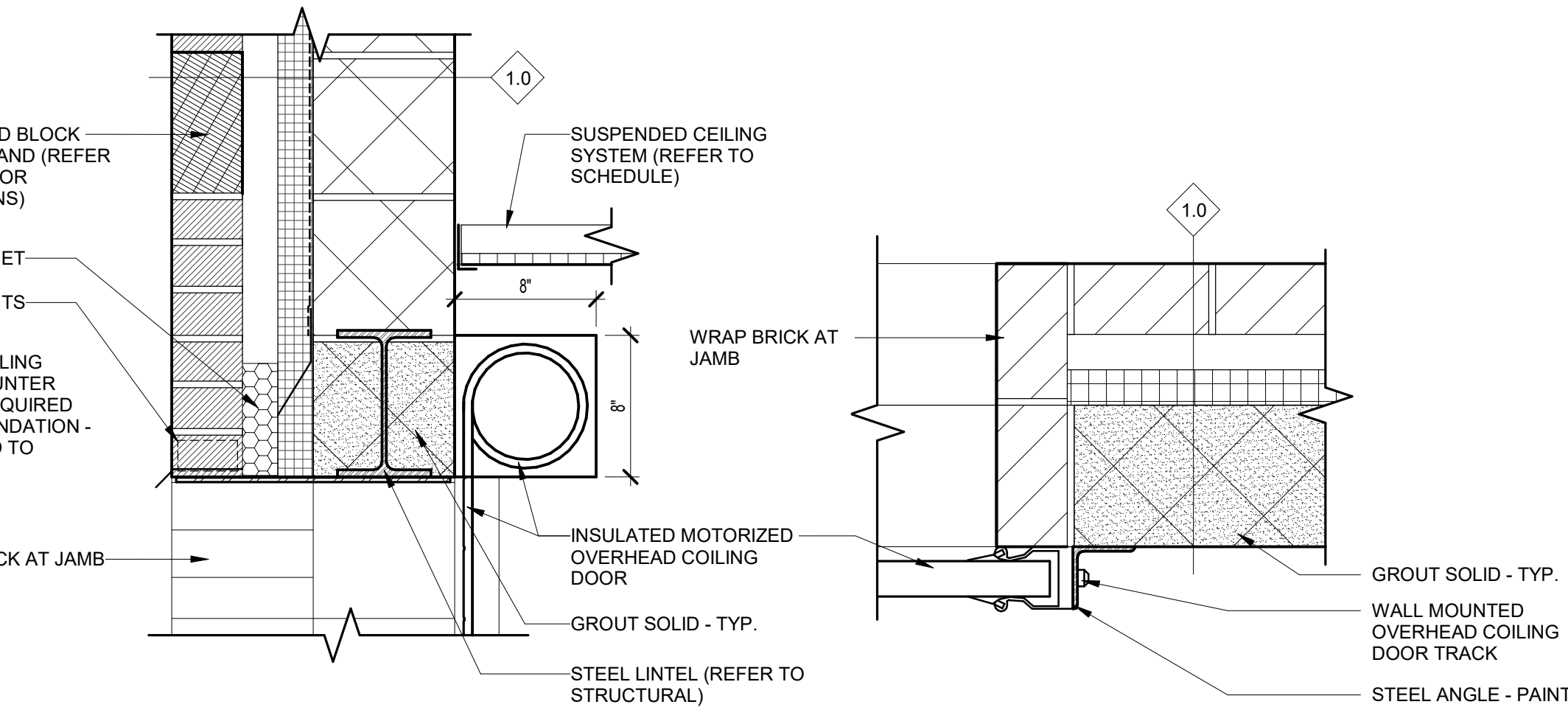
24  
A3.01  
TYP. WINDOW SILL DETAIL  
SCALE: 1 1/2" = 1'-0"



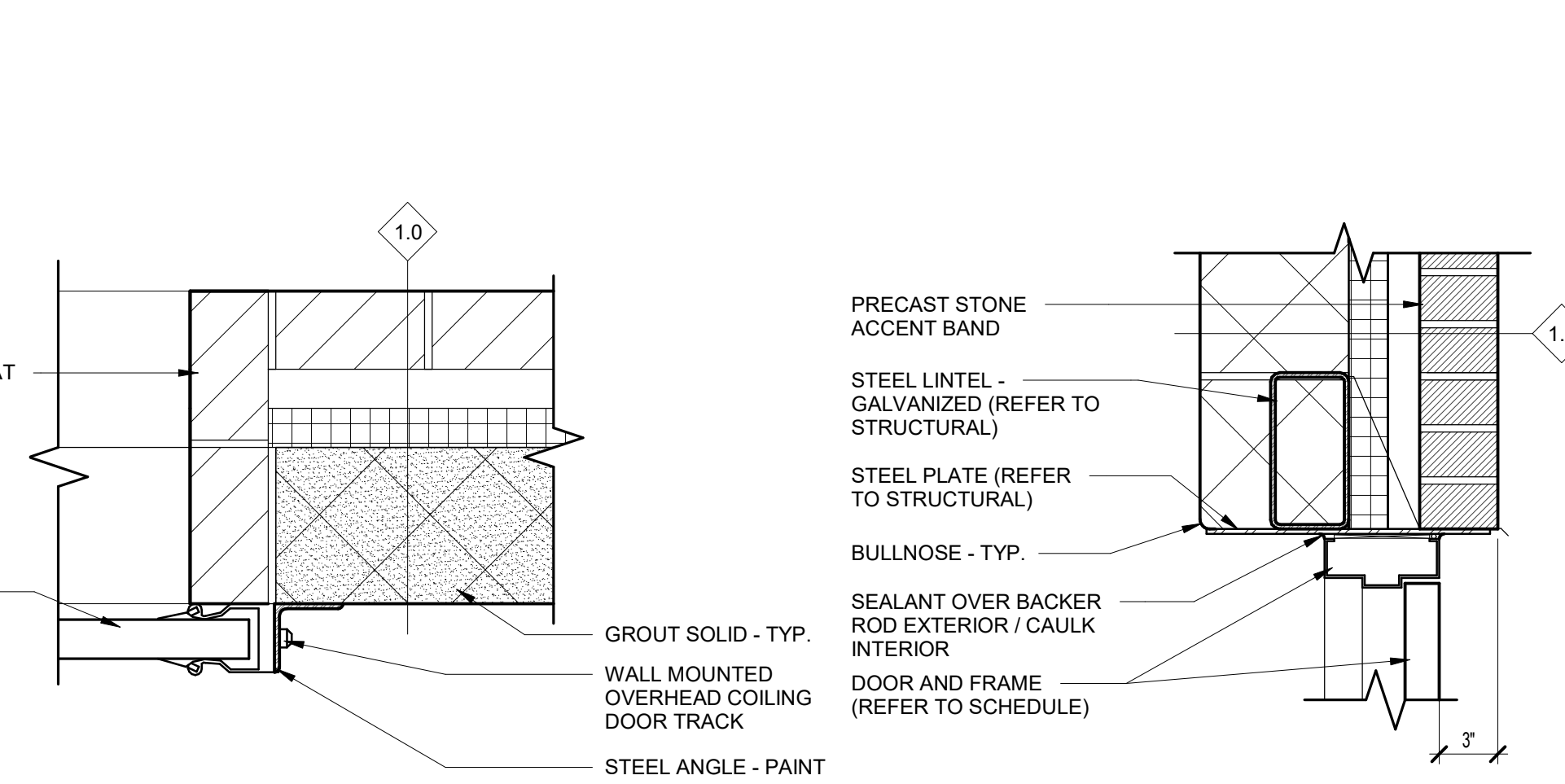
25  
A3.01  
TYP. INT DOOR JAMB DETAIL  
SCALE: 1 1/2" = 1'-0"



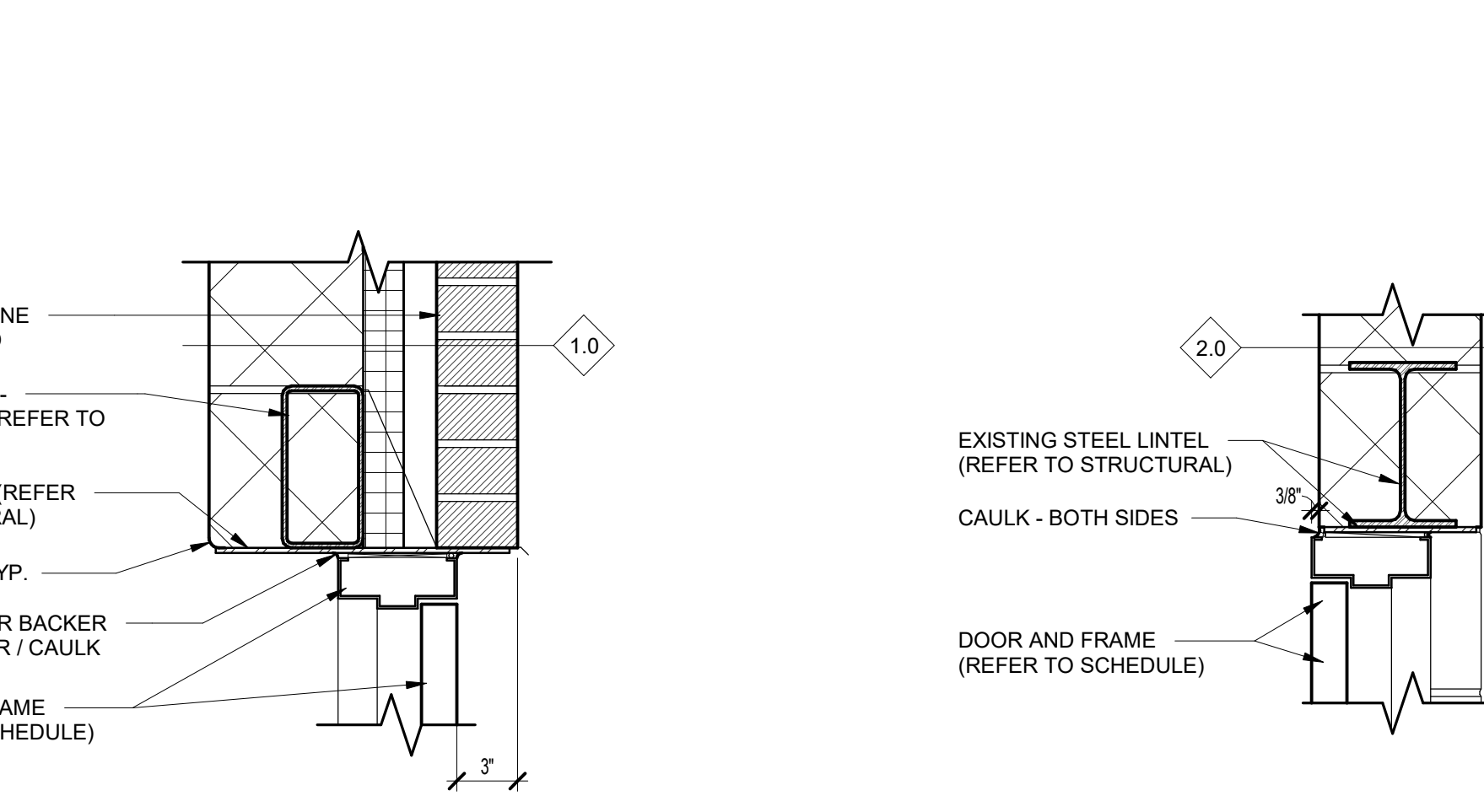
26  
A3.01  
COILING DOOR HEAD DETAIL @ TRAY DROP OFF  
SCALE: 1 1/2" = 1'-0"



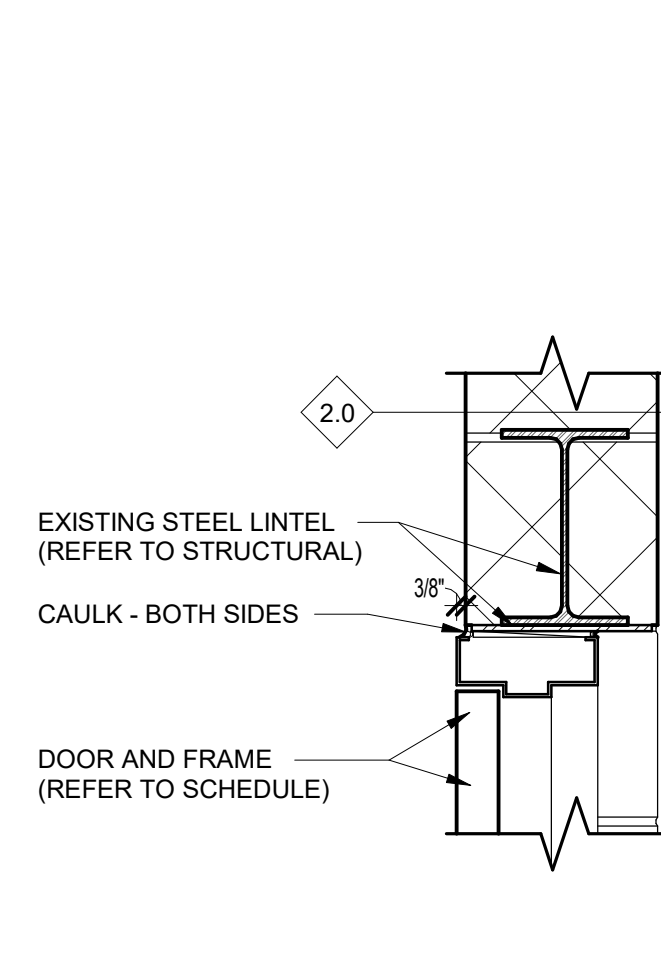
27  
A3.01  
COILING DOOR HEAD DETAIL @ CORRIDOR (WEST CONNECTOR)  
SCALE: 1 1/2" = 1'-0"



28  
A3.01  
JAMB DETAIL @ CORRIDOR  
SCALE: 1 1/2" = 1'-0"



29  
A3.01  
DOOR HEAD DETAIL  
SCALE: 1 1/2" = 1'-0"



30  
A3.01  
DOOR HEAD DETAIL  
SCALE: 1 1/2" = 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.

B1	BULLETIN NO 1	01/08/25
NO.	REVISION	DATE



FILE NO.  
491/20167.SDW

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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

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

PROJECT NUMBER  
2021094

SHEET NUMBER

PROJECT DATE  
SEPTEMBER 6, 2023

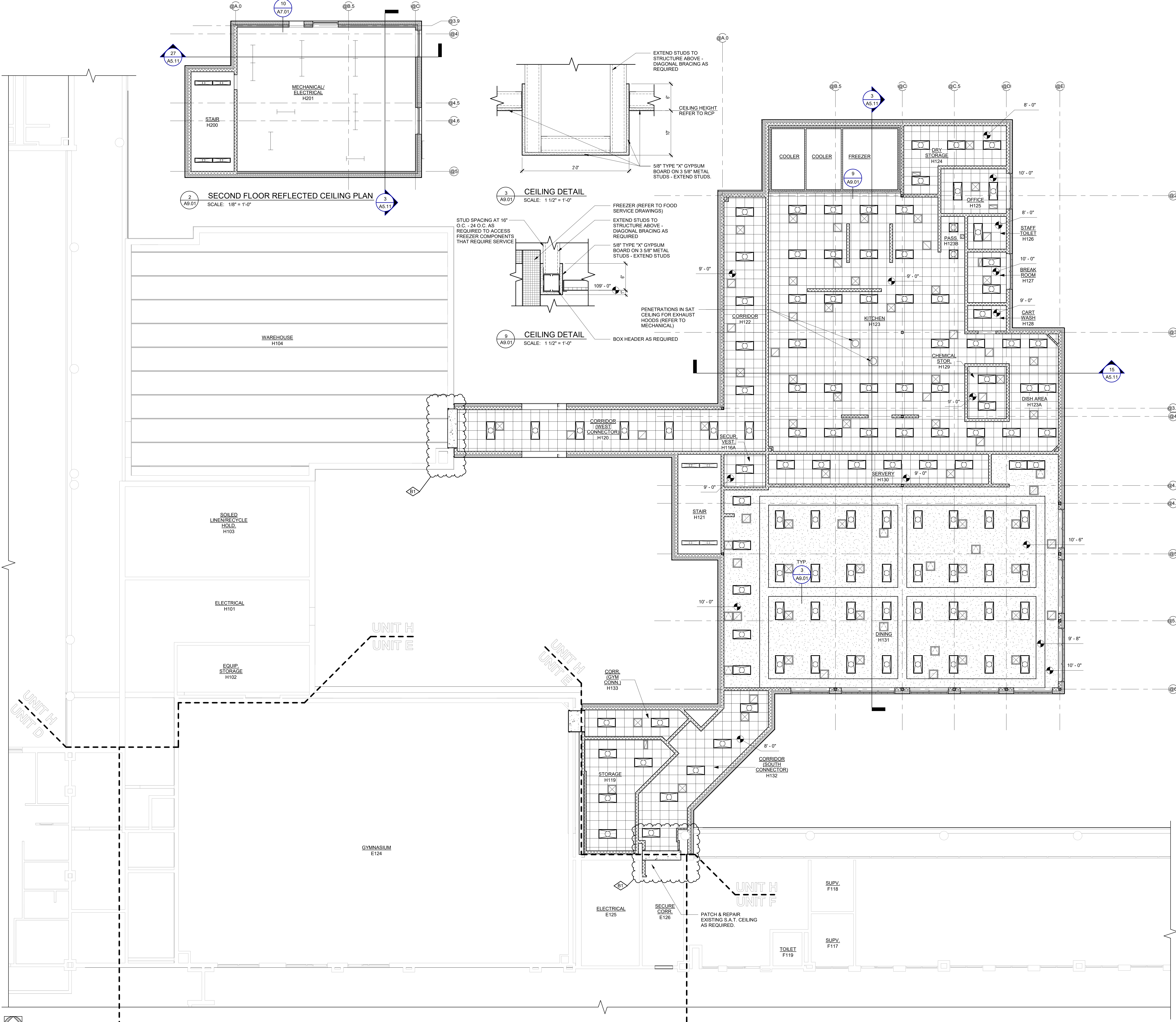
A3.01

CHECKED BY  
C.D.S.



C:\Users\mfm\Documents\Center\Center 2021094.dwg, 09/11/24, 2:52, 1:1, 1/8"=1'-0", 1/8"=1'-0"

**FIRST FLOOR REFLECTED CEILING PLAN**  
NORTH  
SCALE: 1/8" = 1'-0"



**REFLECTED CEILING LEGEND:**

- LIGHT FIXTURES (REFER TO ELECTRICAL)
- SUPPLY AIR GRILLE (REFER TO MECHANICAL)
- RETURN AIR GRILLE / EXHAUST FAN (REFER TO MECHANICAL)
- CEILING ACCESS PANEL - COORDINATE LOCATIONS WHERE CEILING ACCESS IS REQUIRED

**GENERAL CEILING NOTES:**

- COORDINATE INSTALLATION OF SUSPENDED CEILING SYSTEM WITH MECHANICAL AND ELECTRICAL SYSTEMS.
- POSITION LIGHT FIXTURES IN CENTER OF CEILING TILES UNLESS NOTED OR DIMENSIONED OTHERWISE.
- REFERENCE SPECIFICATIONS FOR SUSPENDED CEILING SYSTEM DESCRIPTION AND LOCATION REQUIREMENTS.
- ELECTRICAL FIXTURES ARE SHOWN FOR LOCATION REFERENCE ONLY. REFER TO ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR DETAILS.
- FIRE DEVICES AND EXIT LIGHTING NOT INDICATED ON ARCHITECTURAL DRAWINGS. REFER TO ELECTRICAL DRAWINGS FOR LOCATION, DETAILS, AND SPECIFICATIONS.
- PROVIDE S.A.T. HOLD DOWN CLIPS AT EXTERIOR DOORS.

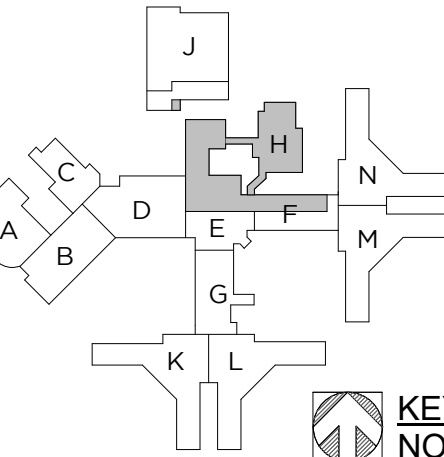
NO.	REVISION	DATE
B1	BULLETIN NO 1	01/08/25



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KEY PLAN  
NOT TO SCALE

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PROJECT TITLE

491/20167.SDW - PHASE 500:

**CENTER FOR FORENSIC  
PSYCHIATRY - CREATE  
KITCHEN**

SALINE, MICHIGAN

SHEET TITLE

**FIRST & SECOND FLOOR  
REFLECTED CEILING  
PLAN**

PROJECT NUMBER

2021094

PROJECT DATE

SEPTEMBER 6, 2023

CHECKED BY

C.D.S.

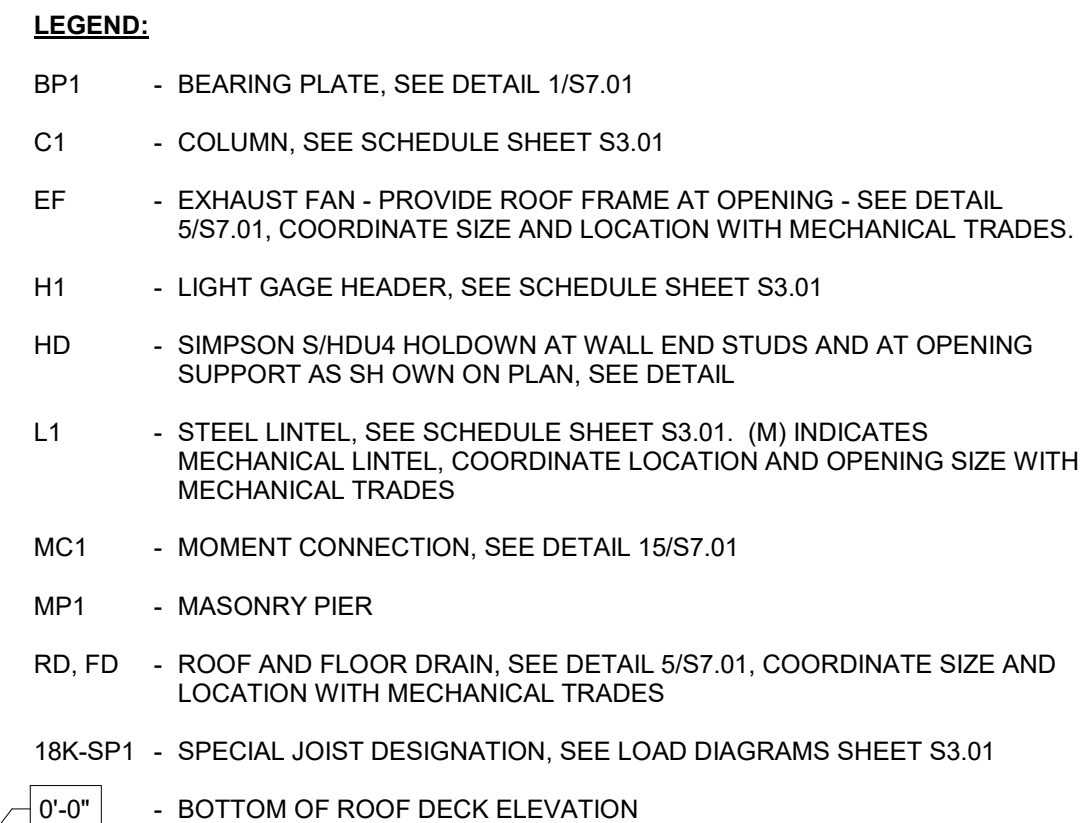
SHEET NUMBER

**A9.01**



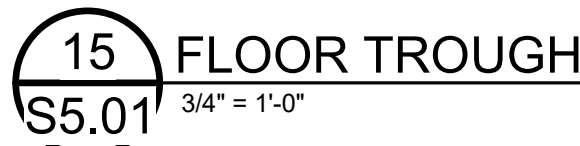
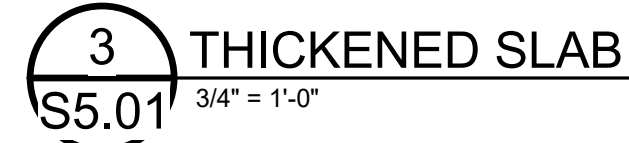
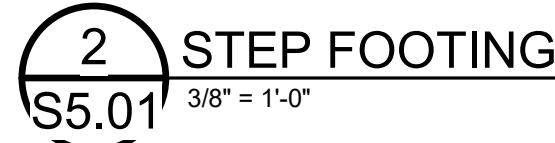
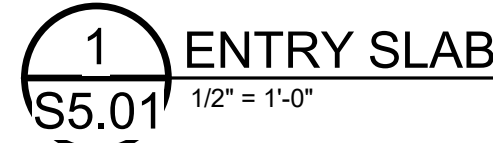




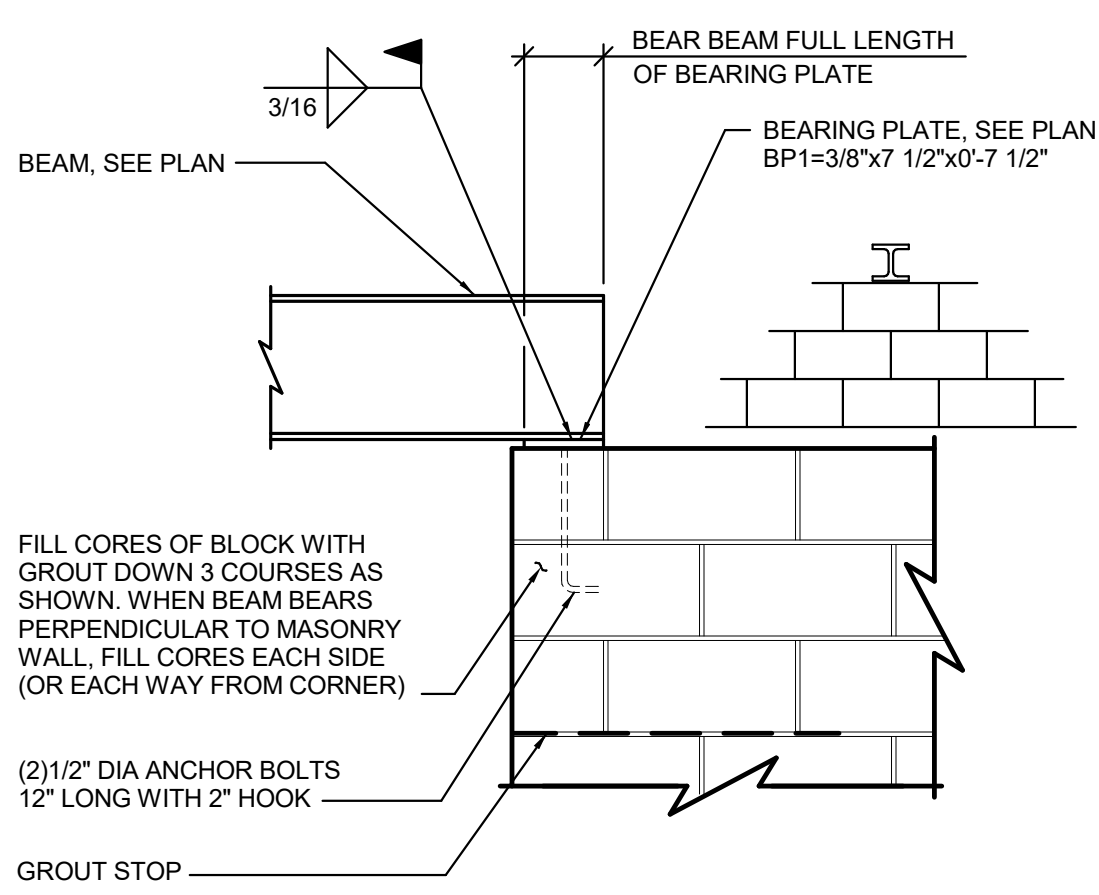


PROJECT NUMBER 2021094	SHEET NUMBER
PROJECT DATE SEPTEMBER 6, 2023	S2.02
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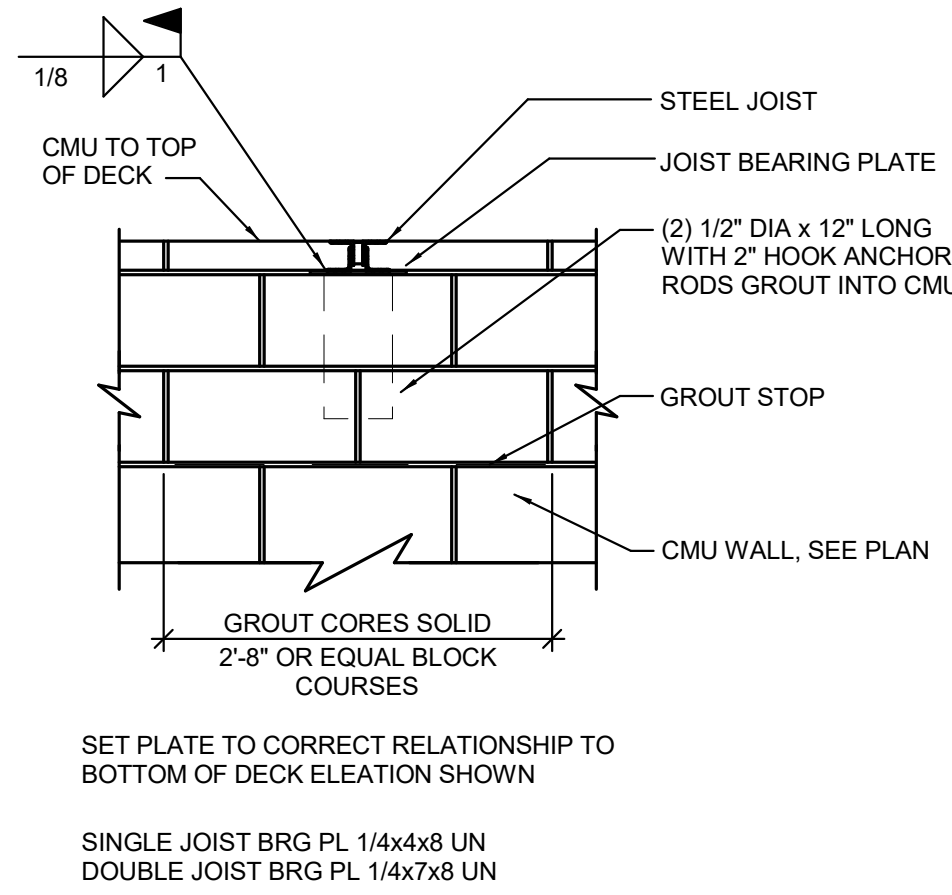




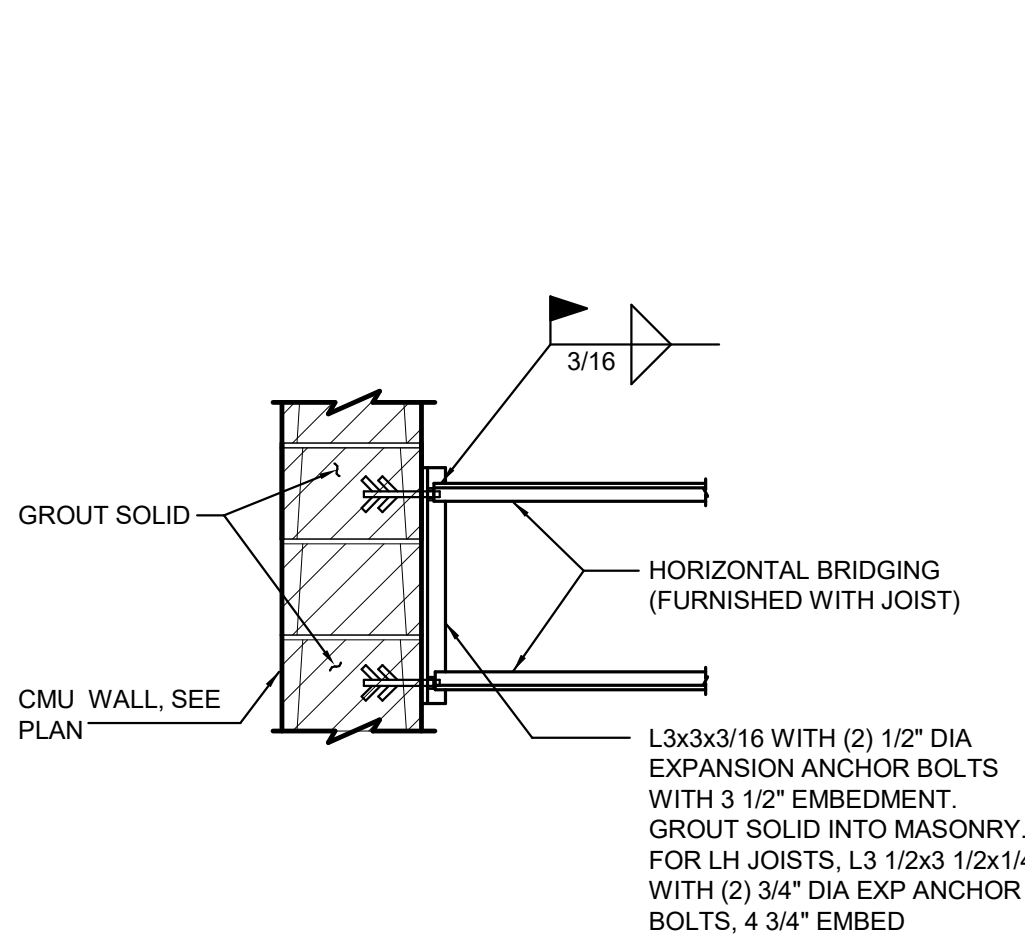




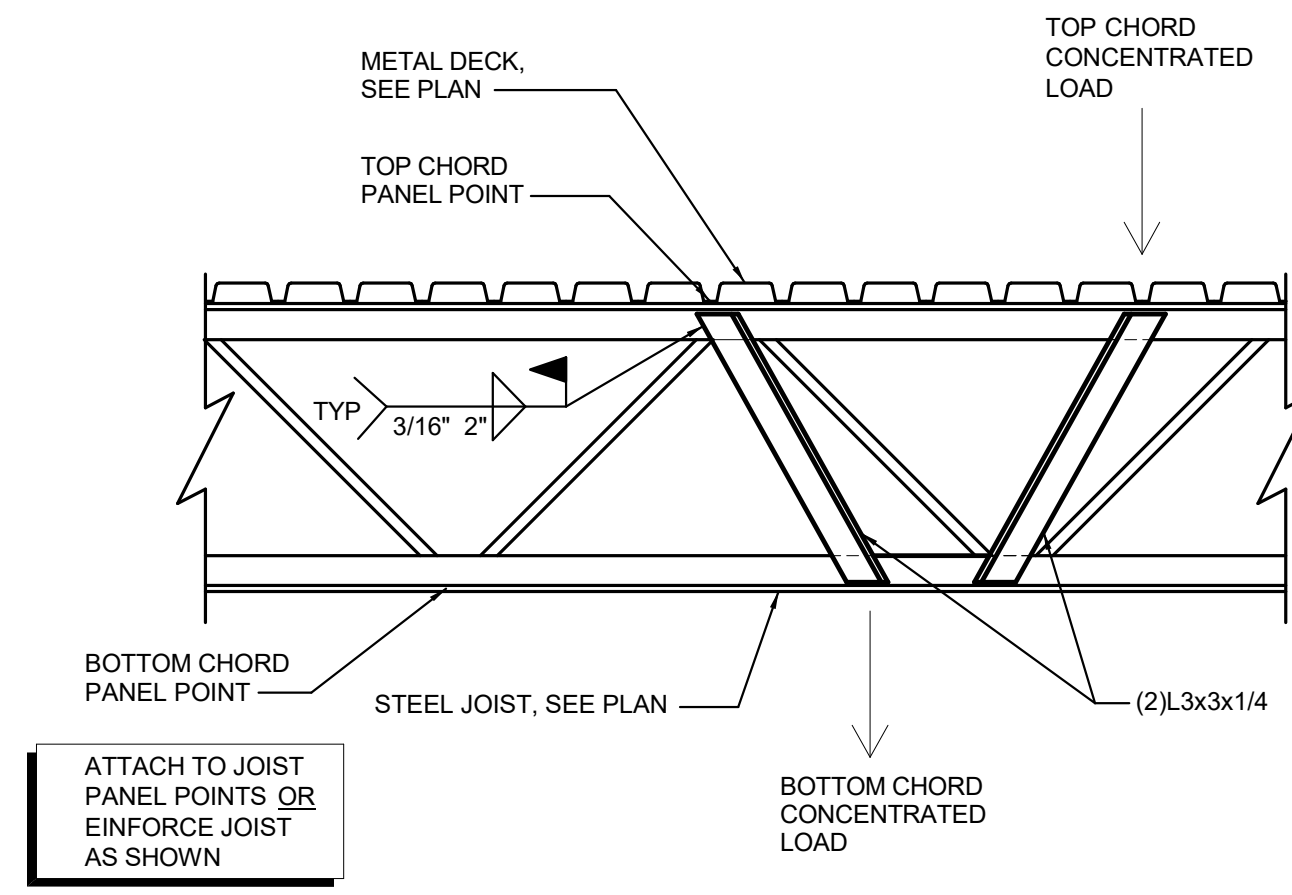
**1**  
**S7.01** BEAM BEARING  
3/4" = 1'-0"



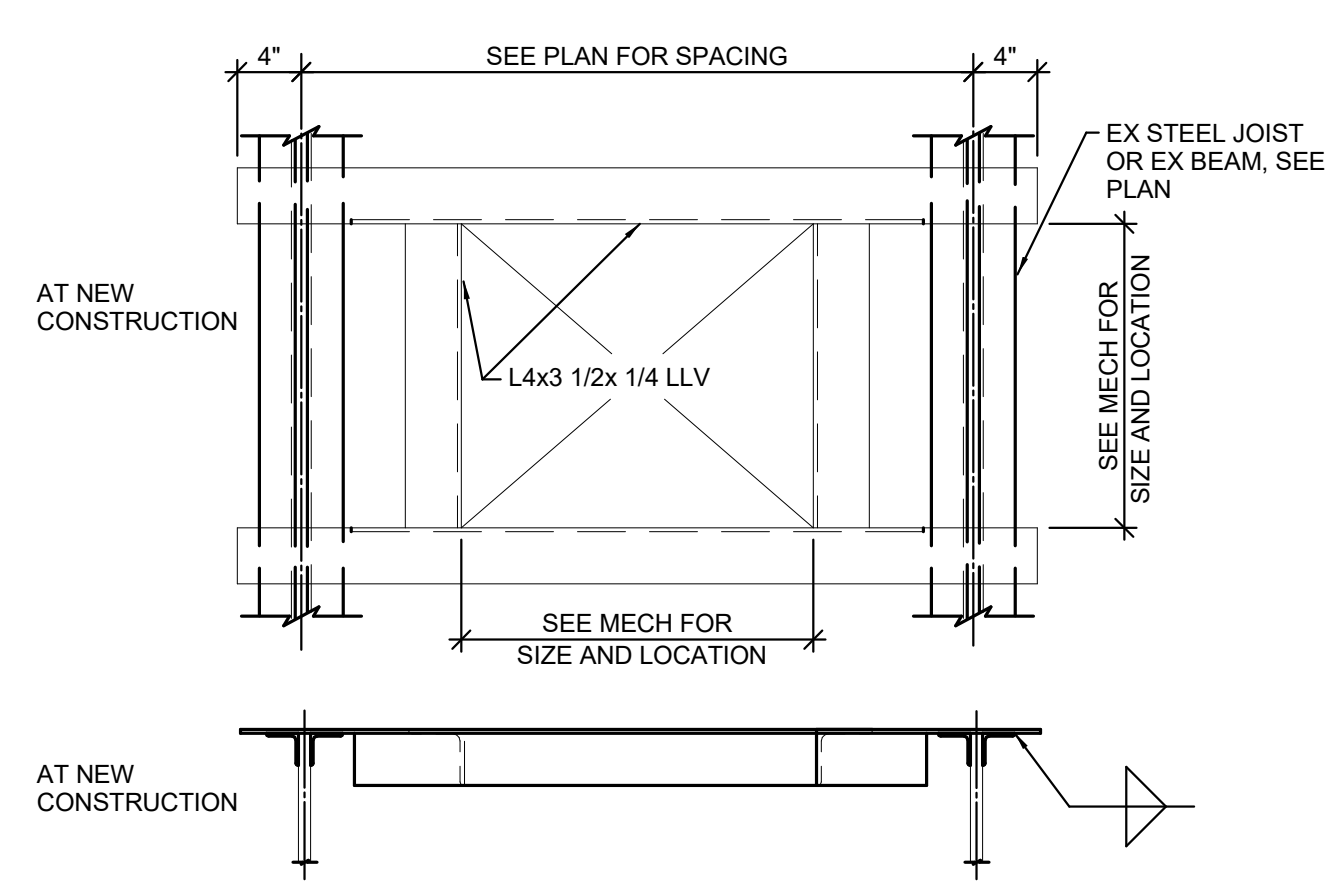
**2**  
**S7.01** "K" JOIST END BEARING  
3/4" = 1'-0"



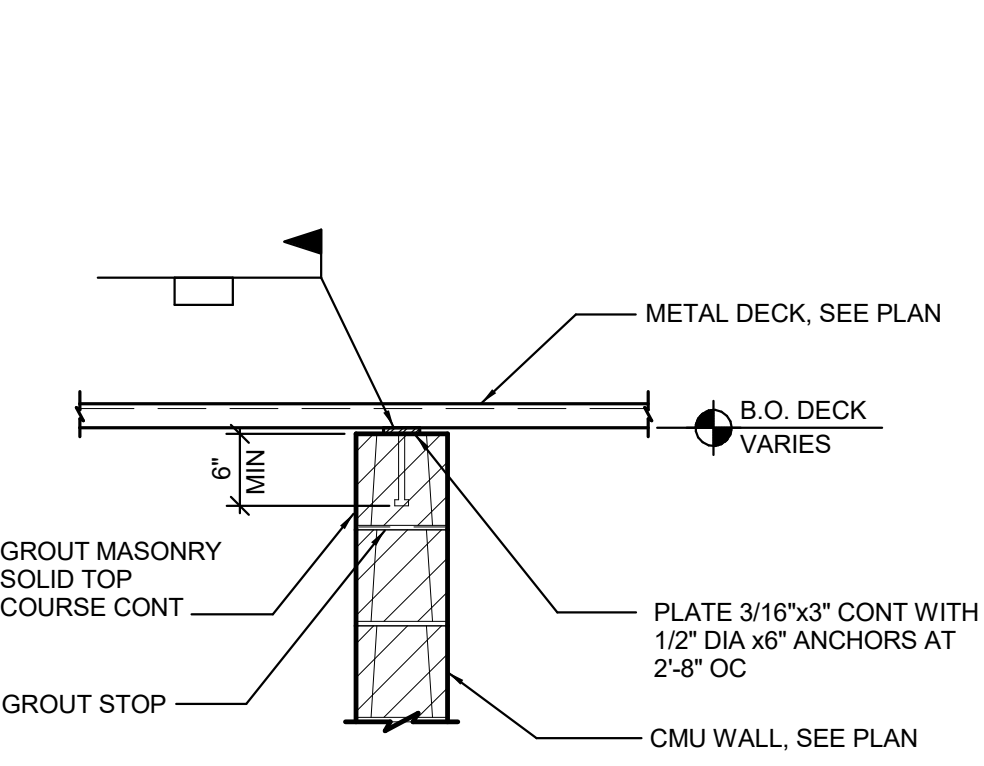
**3**  
**S7.01** "K" AND "LH" BRIDGING ANCHOR  
3/4" = 1'-0"



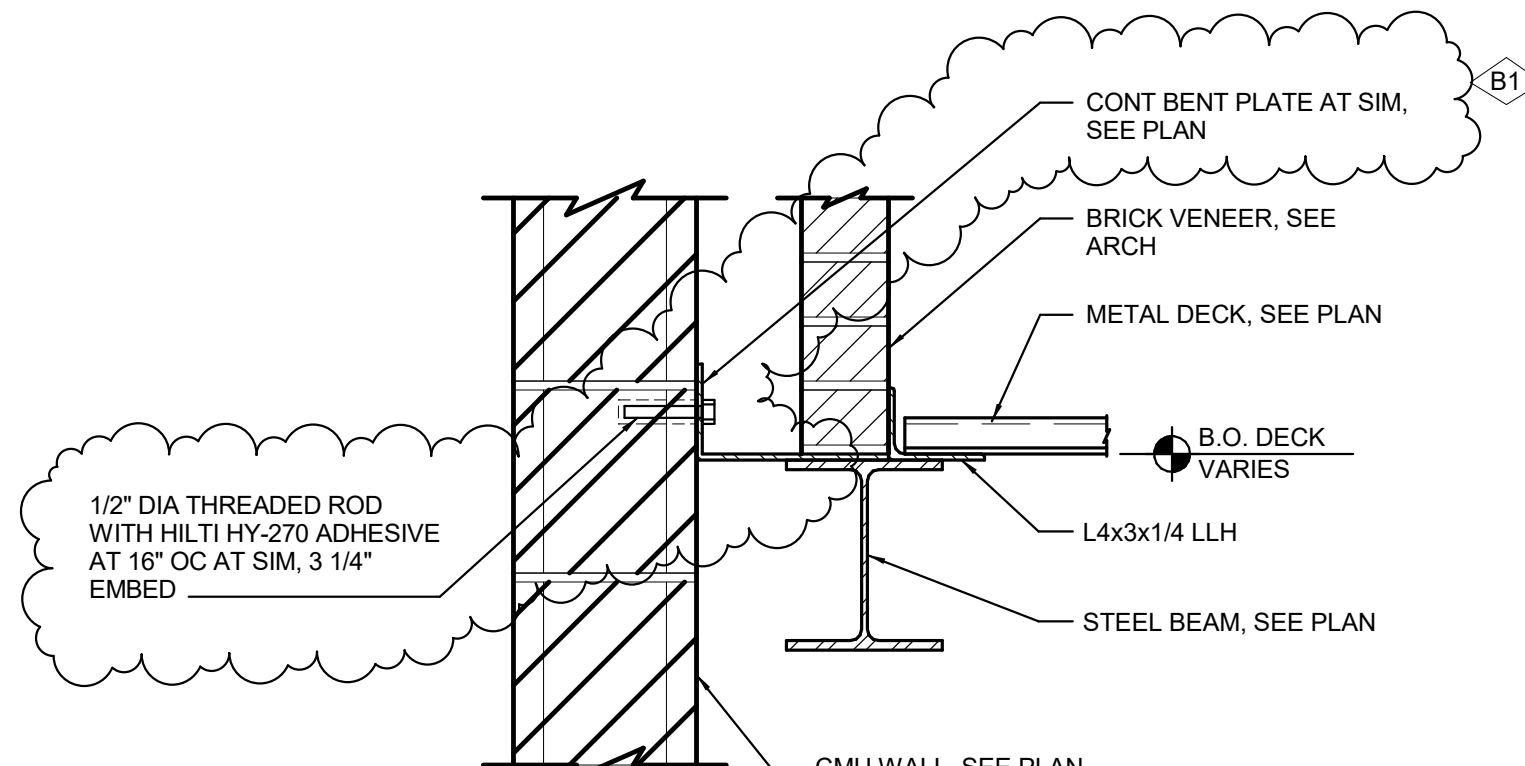
**4**  
**S7.01** STEEL JOIST REINFORCEMENT AT NON-PANEL POINT CONCENTRATED LOADS  
3/4" = 1'-0"



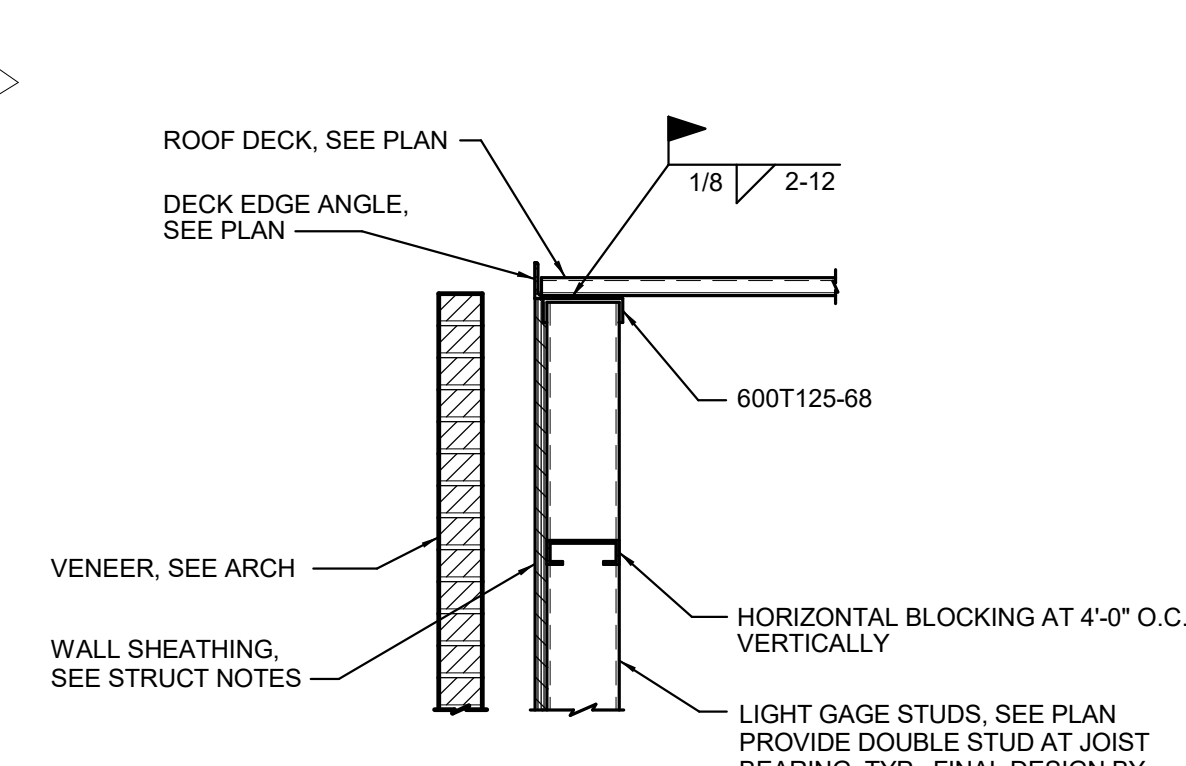
**5**  
**S7.01** ROOF OPENING FRAME  
1" = 1'-0"



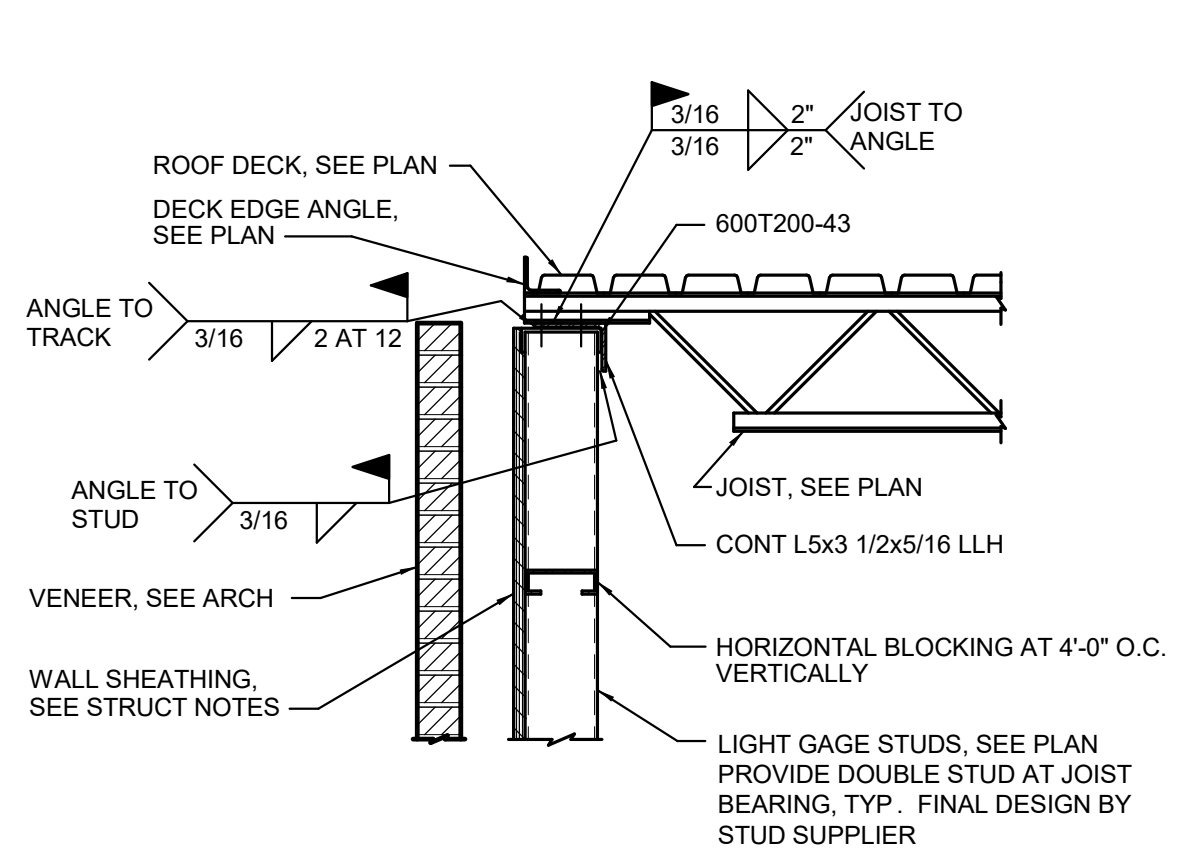
**6**  
**S7.01** DECK BEARING  
3/4" = 1'-0"



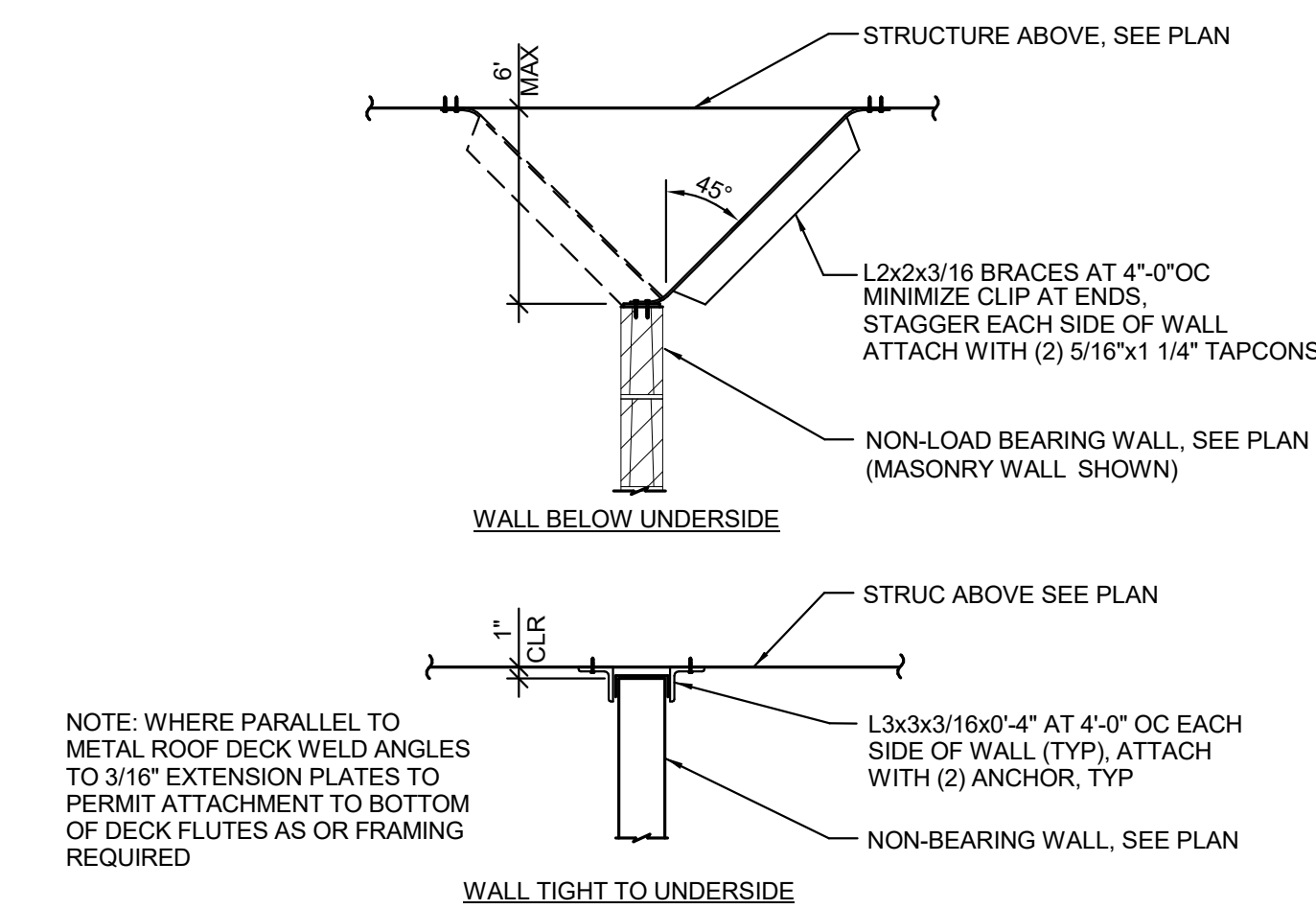
**7**  
**S7.01** LOW ROOF DECK SUPPORT  
1 1/2" = 1'-0"



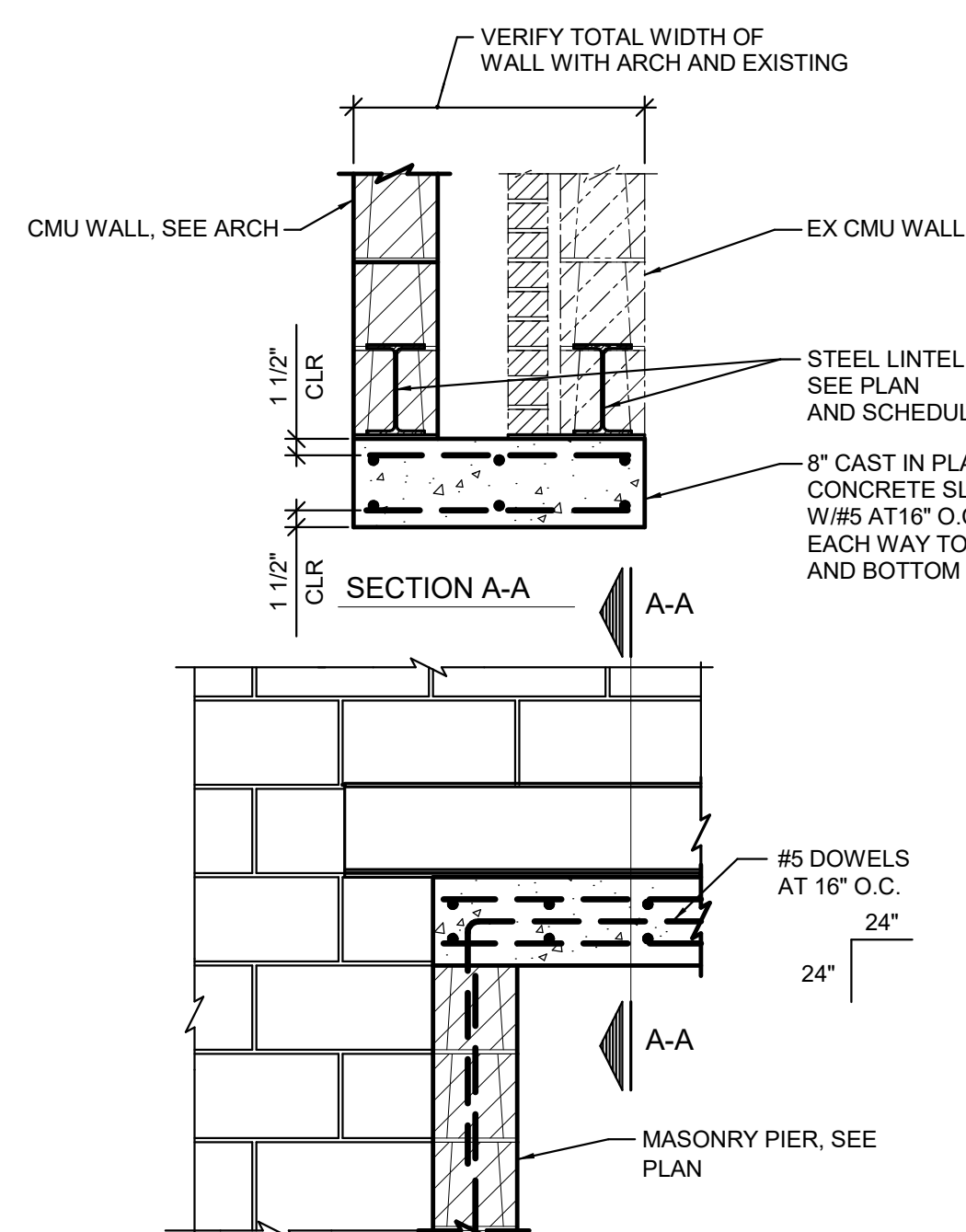
**8**  
**S7.01** DECK EDGE AT LIGHT GAGE  
3/4" = 1'-0"



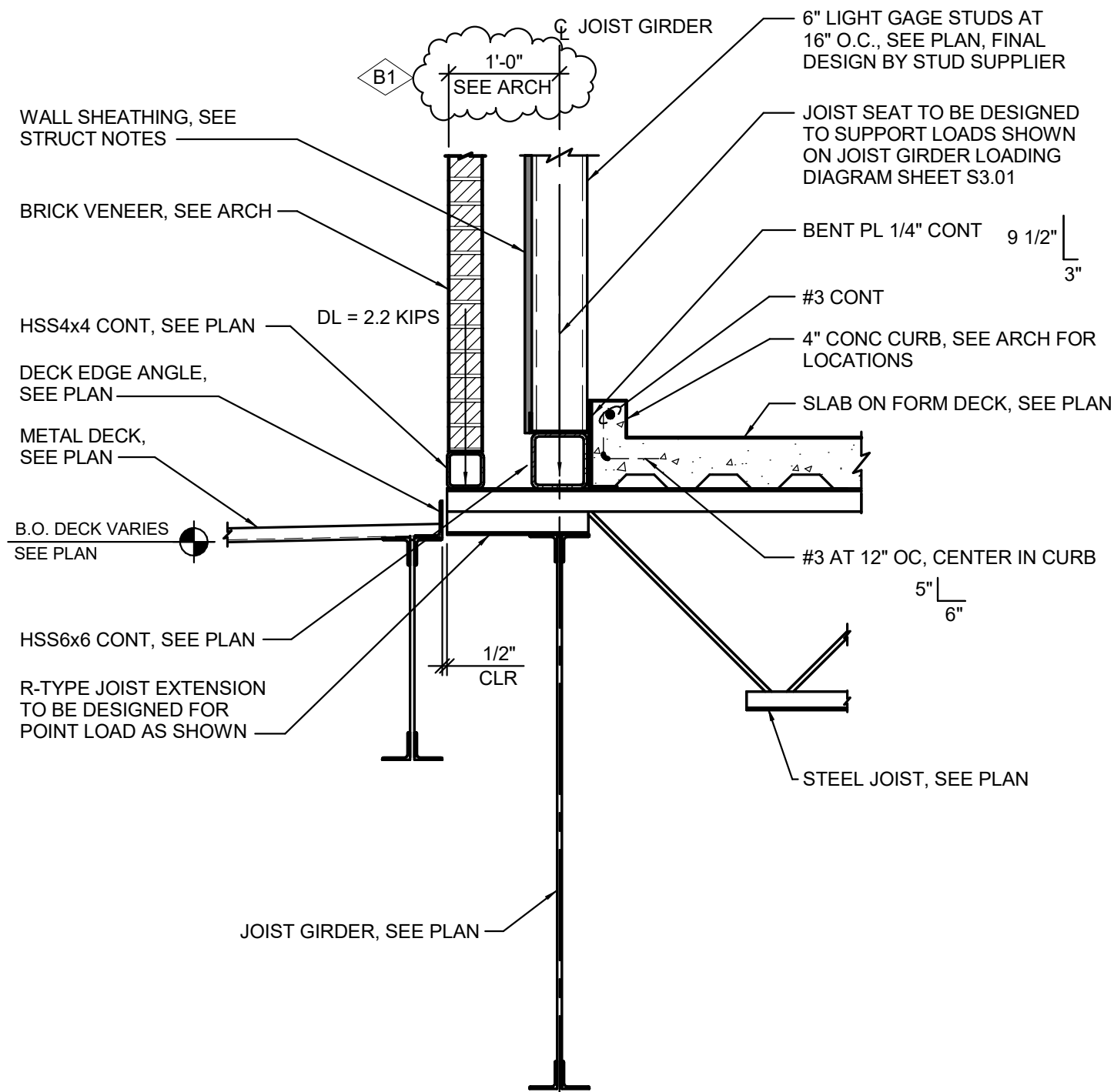
**9**  
**S7.01** JOIST BEARING DETAIL  
3/4" = 1'-0"



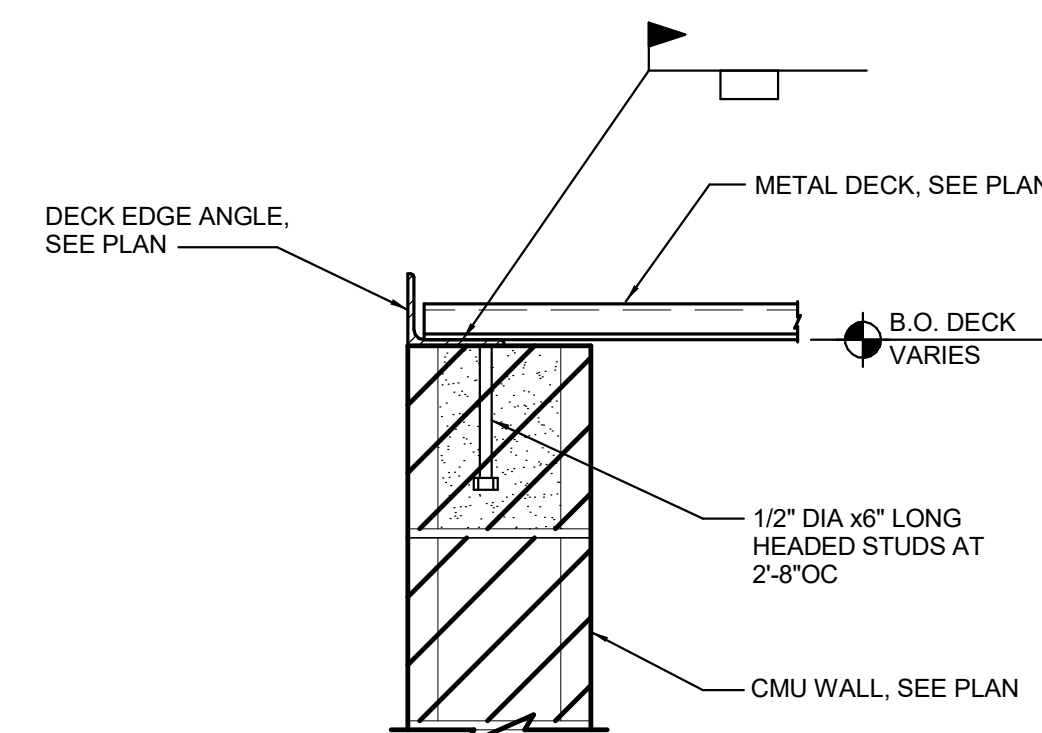
**10**  
**S7.01** TYPICAL NON-BEARING WALL BRACING  
3/4" = 1'-0"



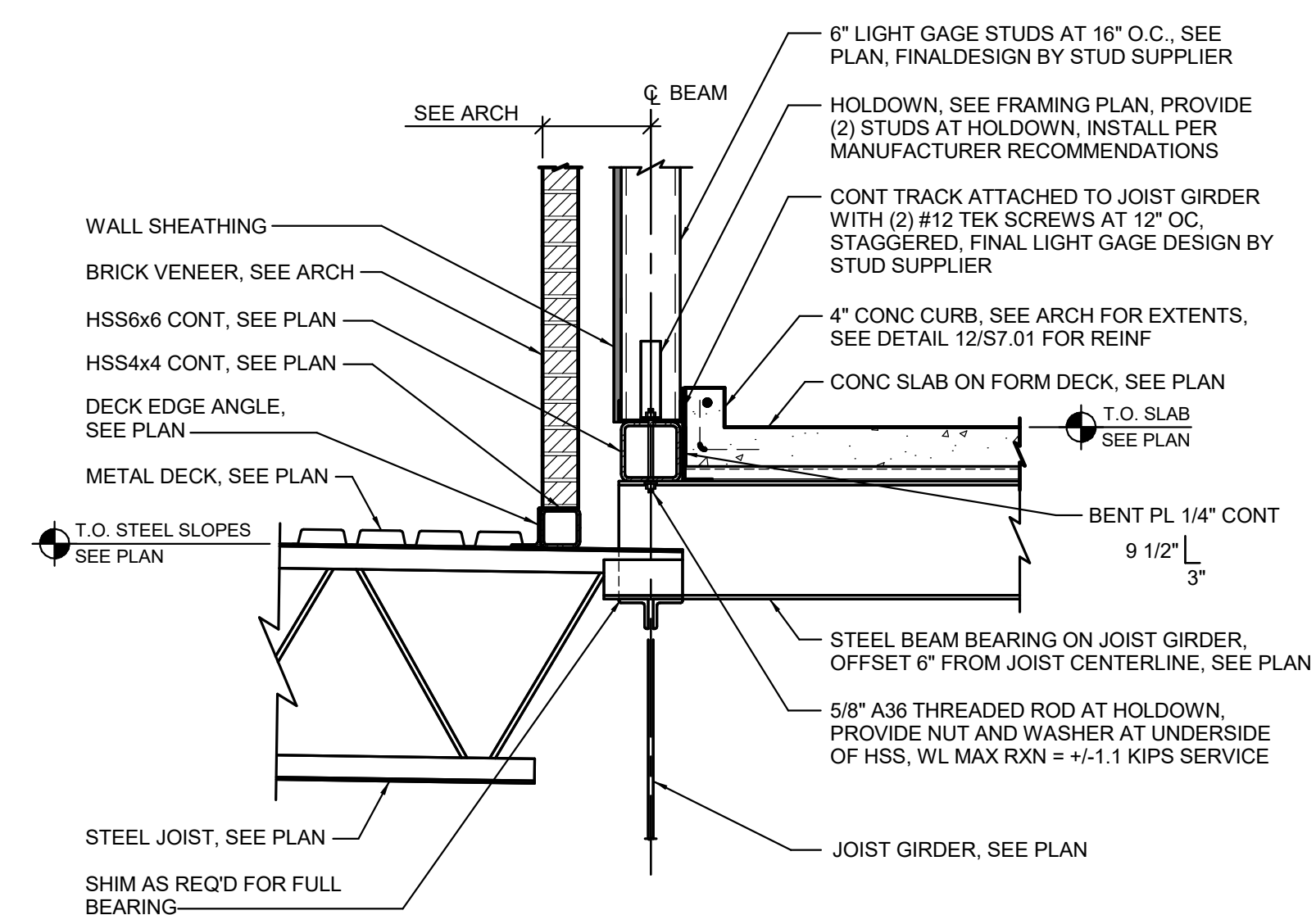
**11**  
**S7.01** PORTAL FRAME  
3/4" = 1'-0"



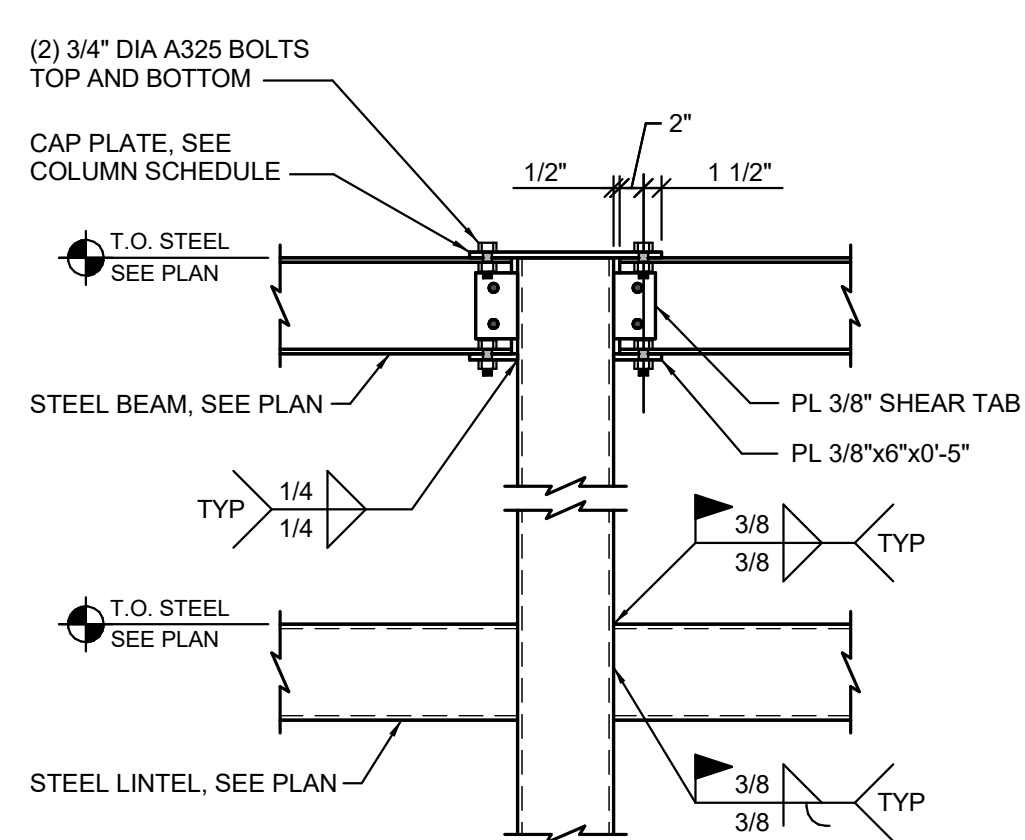
**12**  
**S7.01** BRICK SUPPORT AT LOW ROOF  
3/4" = 1'-0"



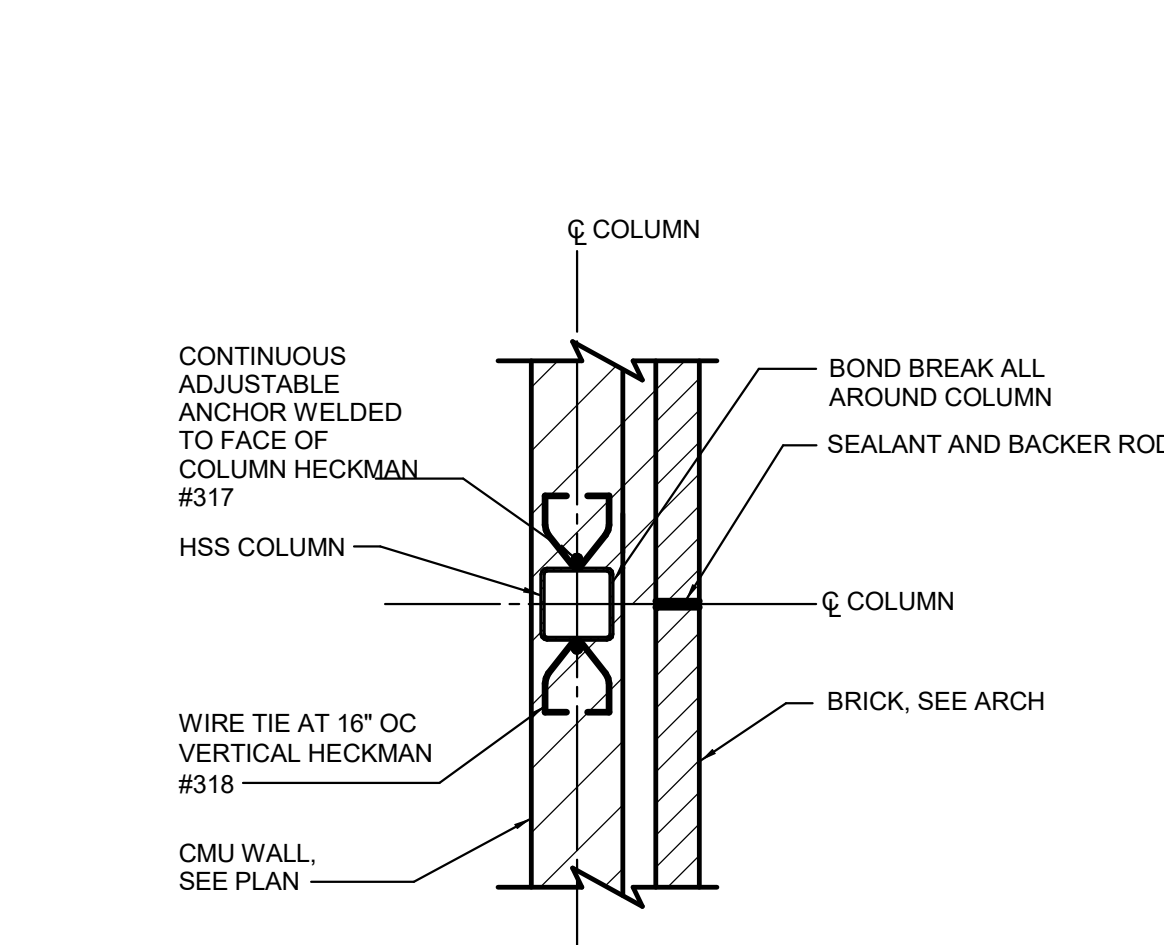
**13**  
**S7.01** DECK SUPPORT ANGLE  
1 1/2" = 1'-0"



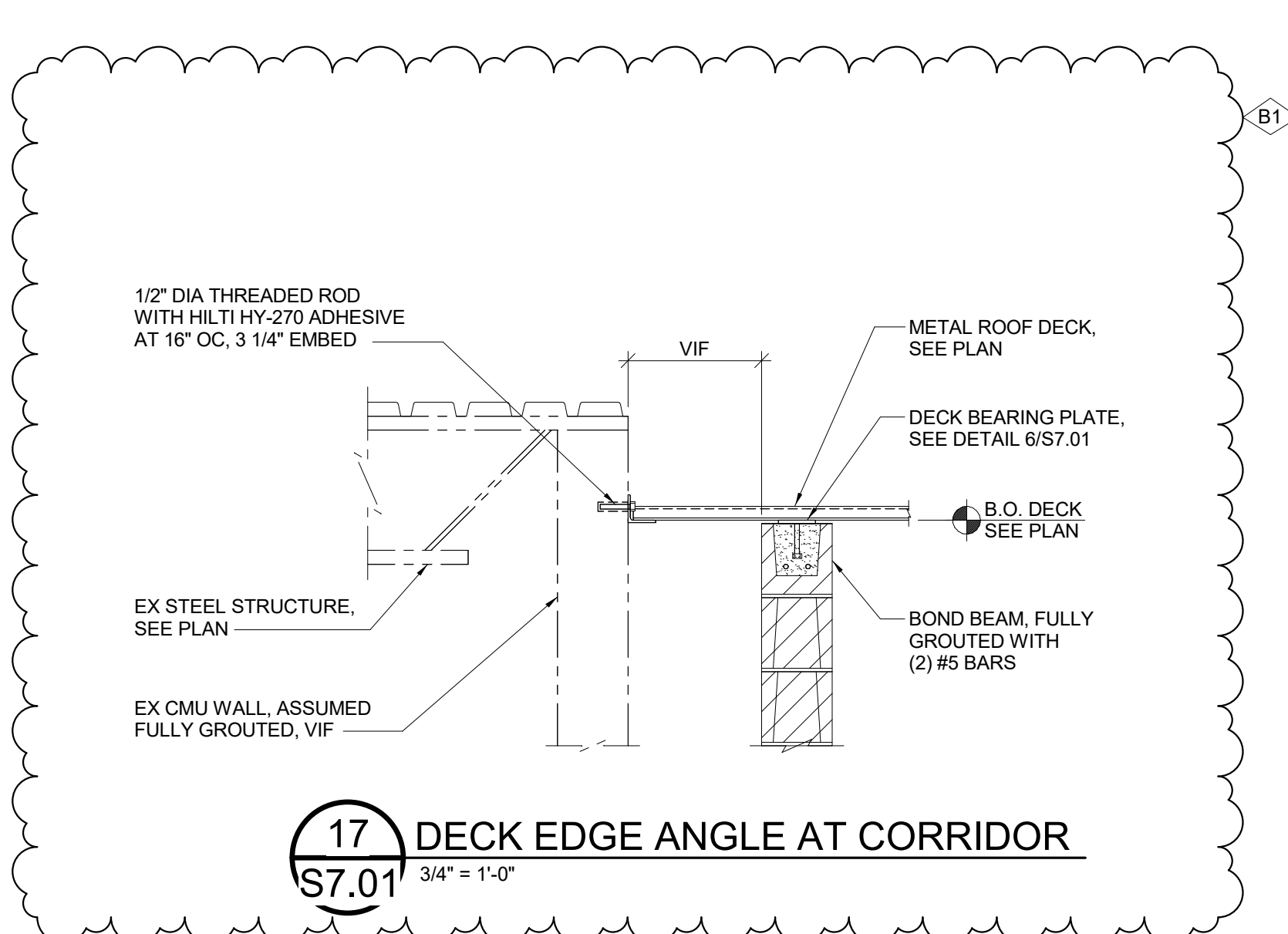
**14**  
**S7.01** BRICK VENEER SUPPORT  
3/4" = 1'-0"



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



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



**17**  
**S7.01** DECK EDGE ANGLE AT CORRIDOR  
3/4" = 1'-0"

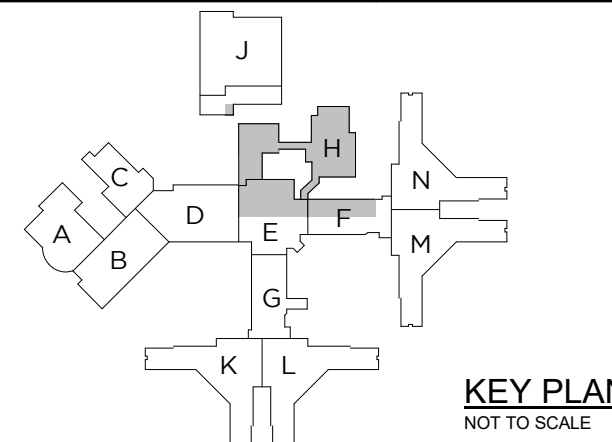
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A3	ADDENDUM NO. 3	09/28/23
NO.	REVISION	DATE



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MACMILLAN ASSOCIATES  
CONSULTING ENGINEERS

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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JAG

**S7.01**



en:\2021\2021-0402-00\CA01-0402-M7-SH3.dwg, M-703, 1/18/2024 5:28:51 PM, Ronald A. Chapdelaine, Peter Basso Associates Inc.

AIR HANDLING UNIT SUPPLY AIR FAN SCHEDULE																			
UNIT IDENTIFICATION	SYSTEM SERVED	TYPE	AIRFLOW CFM	E.S.P. IN. W.G.	T.S.P. IN. W.G.	MINIMUM WHEEL DIAMETER INCHES	RPM	FAN CLASS	MOTOR				MODULATION/CONTROL TYPE	ELECTRICAL				MODEL NUMBER	KEYED NOTES
									BHP	HP	RPM	DRIVE TYPE		VOLTS	PHASE	SCCR KA (NOTE 5)	OPTIONS/ACCESSORIES		
RF-1	AHU-21H	CENTRIFUGAL	10,000	1.0	1.19	22.25	2403	2	5.12	7.5	1750	DIRECT	VFD	460	3			CAH021GDGC	

GENERAL NOTES:  
1. REFER TO SCHEDULES GENERAL NOTES.  
2. MODEL NUMBERS ARE DAIKIN UNLESS OTHERWISE NOTED.  
3. DESIGN MINIMUM OUTSIDE AIRFLOW CFM (VENTILATION) LISTED IS BASED ON THE ESTIMATED MAXIMUM OCCUPANT LOAD. REFER TO TEMPERATURE CONTROL DRAWINGS FOR OUTSIDE AIR CONTROL SEQUENCE.  
4. REFER TO AIR HANDLING UNIT FILTER SCHEDULE FOR AIR PRESSURE DROP TO BE USED FOR TOTAL STATIC PRESSURE CALCULATIONS.  
5. CONTROLLER (E.G. VARIABLE FREQUENCY CONTROLLER, MOTOR STARTER) FOR SPECIFIED EQUIPMENT SHALL BE MANUFACTURED AND MARKED PER NEC WITH A MINIMUM SHORT CIRCUIT CURRENT RATING AS INDICATED.

KEYED NOTES:  
1. PROVIDE BUNGY CORD MAINTENANCE LED LIGHT 235" LONG, WITH MAGNETIC BASE AND FLEXIBLE CORD  
2. PROVIDE TWO BLANK OFF SHEETS FOR SUPPLY FAN

MODULAR AIR HANDLING UNIT DIMENSIONS							
UNIT IDENTIFICATION	MAXIMUM UNIT LENGTH	MAXIMUM UNIT WIDTH	MAXIMUM UNIT HEIGHT	MAXIMUM UNIT WEIGHT POUNDS	MANUFACTURER LEAD TIME	MANUFACTURER	KEYED NOTES
AHU-21H	310"	90"	58"	5504	----	DAIKIN	1
AHU-22H	166"	80"	52"	2877	----	DAIKIN	1

GENERAL NOTES:  
1. FOR REFERENCE ONLY

KEYED NOTES:  
1. AHU TO BE SHIPPED IN SECTIONS AND THEN BROKEN DOWN TO FIT THROUGH DOORWAYS. CONTRACTOR TO REASSEMBLE AHU IN ROOM UNDER DIRECTION FROM MANUFACTURER

MODULAR AIR HANDLING UNIT COMPONENT SCHEDULE										
UNIT IDENTIFICATION	POSITION NUMBER 1	POSITION NUMBER 2	POSITION NUMBER 3	POSITION NUMBER 4	POSITION NUMBER 5	POSITION NUMBER 6	POSITION NUMBER 7	POSITION NUMBER 8	POSITION NUMBER 9	KEYED NOTES
AHU-21H	PLENUM	ACCESS	RF-1	ECONOMIZER	AF-1	HC-1	CC-1	ACCESS	SF-1	1
AHU-22H	PLENUM	AF-2	HC-2	ACCESS	SF-2	---	---	---	---	1

GENERAL NOTES:  
1. MODULES SELECTED BASED ON DAIKIN INDOOR MODULAR CLIMATE CHANGER AIR HANDLING UNIT.  
2. POSITION NUMBERS ARE INDICATED IN THE DIRECTION OF AIRFLOW FROM RETURN AIR INLET TO SUPPLY AIR DISCHARGE.

KEYED NOTES:  
1. AHU TO BE SHIPPED IN SECTIONS AND THEN BROKEN DOWN TO FIT THROUGH EXISTING DOORWAYS. CONTRACTOR TO REASSEMBLE AHU IN ROOM UNDER DIRECTION FROM MANUFACTURER  
2. AHU IS IN PRE-PURCHASED AND ASSIGNED TO THE CONTRACTOR FOR DELIVERY AND INSTALLATION

AIR HANDLING UNIT FILTER SCHEDULE																
UNIT I.D.	SYSTEM SERVED	TYPE	AIRFLOW CFM	AIR PRESS. DROP		EFFICIENCY IES	FILTER MEDIA					HOUSING			MODEL NO.	KEYED NOTES
				INITIAL IN. W.G.	DIRTY IN. W.G.		QUAN.	WIDTH IN.	HEIGHT IN.	DEPTH IN.	MIN. MEDIA FACE AREA SQ. FT.	ACCESS TYPE	WIDTH IN.	HEIGHT IN.		
AF-1	AHU-21H	PLEATED	10,000	0.22	1.0	8	3/3	24/24	24/20	2	20	SIDE	18	48	CAH021GDGC	
AF-1	AHU-21H	VARICEL SH CARTRIDGE	10,000	0.53	1.5	13	3/3	24/24	24/20	12	20	SIDE	18	48	CAH021GDGC	
AF-2	AHU-22H	PLEATED	8700	0.08	1.0	8	3/6/3	24/20/12	24/24/24	2/2/2	12/20/6	SIDE	26	42	CAH018GDGM	

GENERAL NOTES:  
1. MODEL NUMBERS ARE FARR UNLESS OTHERWISE NOTED.  
2. PROVIDE 25% TO 30% EFFICIENT 2 INCH THROW AWAY PREFILTERS  
3. MERV DESIGNATES THE "MINIMUM EFFICIENCY REPORTING VALUE" AS EVALUATED UNDER ASHRAE STANDARD 52.2 1999.  
4. AIR HANDLING UNIT TOTAL STATIC PRESSURE FOR VARIABLE AIR VOLUME SYSTEMS IS BASED ON THE FILTER DIRTY AIR PRESSURE DROP AND AVERAGE/MOLIFE FILTER AIR PRESSURE DROP FOR CONSTANT VOLUME SYSTEMS UNLESS NOTED OTHERWISE.

KEYED NOTES:  
1. PROVIDE THREE SETS OF EACH TYPE OF FILTER

AIR HANDLING UNIT SUPPLY AIR FAN SCHEDULE																				
UNIT IDENTIFICATION	SYSTEM SERVED	TYPE	AIRFLOW CFM	OUTSIDE AIR FLOW CFM	E.S.P. IN. W.G.	T.S.P. IN. W.G.	MINIMUM WHEEL DIAMETER INCHES	RPM	FAN CLASS	MOTOR				MODULATION/CONTROL TYPE	ELECTRICAL				MODEL NUMBER	KEYED NOTES
										BHP	HP	RPM	DRIVE TYPE		VOLTS	PHASE	SCCR KA (NOTE 5)	OPTIONS/ACCESSORIES		
SF-1	AHU-21H	CENTRIFUGAL	10,000	3000	2.0	4.89	24.5	1796	2	11.29	15.0	1750	DIRECT	VFD	460	3			CAH021GDGC	
SF-2	AHU-22H	CENTRIFUGAL	8700	8700	1.5	3.51	18.25	3650	2	7.9	10	3500	DIRECT	VFD	460	3				

GENERAL NOTES:  
1. REFER TO SCHEDULES GENERAL NOTES.  
2. MODEL NUMBERS ARE DAIKIN UNLESS OTHERWISE NOTED.  
3. DESIGN MINIMUM OUTSIDE AIRFLOW CFM (VENTILATION) LISTED IS BASED ON THE ESTIMATED MAXIMUM OCCUPANT LOAD. REFER TO TEMPERATURE CONTROL DRAWINGS FOR OUTSIDE AIR CONTROL SEQUENCE.  
4. REFER TO AIR HANDLING UNIT FILTER SCHEDULE FOR AIR PRESSURE DROP TO BE USED FOR TOTAL STATIC PRESSURE CALCULATIONS.  
5. CONTROLLER (E.G. VARIABLE FREQUENCY CONTROLLER, MOTOR STARTER) FOR SPECIFIED EQUIPMENT SHALL BE MANUFACTURED AND MARKED PER NEC WITH A MINIMUM SHORT CIRCUIT CURRENT RATING AS INDICATED.

KEYED NOTES:  
1. PROVIDE BUNGY CORD MAINTENANCE LED LIGHT 235" LONG, WITH MAGNETIC BASE AND FLEXIBLE CORD  
2. PROVIDE TWO BLANK OFF SHEETS FOR SUPPLY FAN

CHILLED WATER COOLING COIL SCHEDULE																			
UNIT IDENTIFICATION	SYSTEM SERVED	MAXIMUM NUMBER ROWS	MAXIMUM FM DENSITY FINS/INCH	TOTAL CAPACITY MBH	AIR						MINIMUM FACE AREA SQ. FT.	WATER					CONTROL VALVE W.P.D. FT. HEAD	MODEL NUMBER	KEYED NOTES
					AIRFLOW CFM	E.D.B. °F	E.W.B. °F	L.D.B. °F	L.W.B. °F	MAXIMUM A.P.D. IN. W.G.		FLOW GPM	FLUID TYPE	E.W.T. °F	L.W.T. °F	MAXIMUM W.P.D. FT. HEAD			
CC-1	AHU-21H	6	9	388.6	10000	79.7	65.9	53.9	53.0	0.69	20.1	63.7	W	44.0	56.2	16.0	15	SWL0906B	#

GENERAL NOTES:  
1. MODEL NUMBERS ARE DAIKIN UNLESS OTHERWISE NOTED.  
2. COIL SELECTIONS BASED ON .00025 FOULING FACTOR.  
3. FLUID TYPE: W = WATER, PGXX = PROPYLENE GLYCOL SOLUTION XX PERCENTAGE OF GLYCOL, EGXX = ETHYLENE GLYCOL SOLUTION XX PERCENTAGE OF GLYCOL.

HOT WATER HEATING COIL SCHEDULE																
UNIT IDENTIFICATION	SYSTEM SERVED	MAXIMUM NUMBER ROWS	MAXIMUM FIN DENSITY FINS/INCH	CAPACITY MBH	AIR				MINIMUM FACE AREA SQ. FT.	WATER				CONTROL VALVE W.P.D. FT. HD.	MODEL NUMBER	KEYED NOTES
					AIRFLOW CFM	E.D.B. °F	L.D.B. °F	MAXIMUM A.P.D. IN. W.G.		FLOW GPM	FLUID TYPE	E.W.T. °F	L.W.T. °F			
HC-1	AHU-21H	2	10	305.5	10000	43.0	70.9	0.30	15.1	19.7	PG35	130	99	2.00	15	5WH1002B
HC-2	AHU-22H	2	10	804.5	8700	-10.0	82.0	0.33	16.0	42.2	PG35	130	94	8.6	15	5WH1002C

GENERAL NOTES:  
1. MODEL NUMBERS ARE DAIKIN UNLESS OTHERWISE NOTED.  
2. COIL SELECTION BASED ON .00025 FOULING FACTOR.  
3. FLUID TYPE: W = WATER, PGXX = PROPYLENE GLYCOL SOLUTION XX PERCENTAGE OF GLYCOL, EGXX = ETHYLENE GLYCOL SOLUTION XX PERCENTAGE OF GLYCOL.

AIR TERMINAL TYPE									
DUCT CONNECTIONS		DISCHARGE SOUND POWER/RADIATED SOUND POWER - dB							MODEL NUMBER
INLET SIZE INCHES	OUTLET SIZE INCHES	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	DIMENSIONS LENGTH INCHES	
								HEIGHT INCHES	
6a	12x8	73/66	69/63	62/52	56/42	53/40	49/36		ESV 1
8a	12x10	72/68	70/59	66/53	63/47	57/46	53/46		ESV 2
10a	14x12-1/2	78/71	70/61	65/56	61/50	58/47	53/45		ESV 3
12a	16x15	76/72	73/63	69/59	65/53	61/48	57/46		ESV 4
16a	24x18	78/70	73/63	70/58	68/53	64/52	59/50		ESV 5
24x16	38x18	83/74	81/69	76/63	74/54	73/48	68/41		ESV 6

GENERAL NOTES:  
1. MODEL NUMBERS ARE TITUS UNLESS OTHERWISE NOTED.  
2. MAXIMUM SOUND POWER LEVEL BASED ON 2" PRESSURE DROP ACROSS UNIT WITH NO ALLOWANCE FOR EXTERNAL ATTENUATION.

KEYED NOTES:  
1. BASED ON 350 CFM  
2. BASED ON 650 CFM  
3. BASED ON 900 CFM  
4. BASED ON 1500 CFM  
5. BASED ON 2500 CFM  
6. BASED ON 5300 CFM

AIR TERMINAL UNIT WITH HOT WATER COIL SCHEDULE																				
UNIT IDENTIFICATION	INLET SIZE	AREA SERVED	UNIT SERVED FROM	AIR FLOW					HEATING COIL (NOTE 3)										KEYED NOTES	
				COOLING MAX CFM	COOLING MIN. CFM	HEATING MIN. CFM	HEATING MAX CFM	MAXIMUM A.P.D. W/COL IN. W.G.	CAPACITY MBH	NUMBER ROWS	WATER									
											AIR		FLOW GPM	FLUID TYPE	E.W.T. °F	L.W.T. °F	MAXIMUM W.P.D. FT. HEAD	CONTROL VALVE W.P.D. FT. HEAD		CONTROL VALVE TYPE
E.D.B. °F	L.D.B. °F																			
VBR-H108	6	H132,H119, H133	AHU-21H	260	80	80	260	0.11	5.0	2	55.0	90.0	0.5	PG35	130	100	0.29	15	3-WAY	
VBR-H109	12	DINING H131	AHU-21H	1080	325	325	1080	0.16	20.6	2	55.0	90.0	1.2	PG35	130	100	1.41	15	3-WAY	
VBR-H110	12	DINING H131	AHU-21H	1080	325	325	1080	0.16	20.6	2	55.0	90.0	1.2	PG35	130	100	1.41	15	3-WAY	
VBR-H111	12	DINING H131/ SERVERY H130	AHU-21H	1280	325	325	1280	0.22	24.4	2	55.0	90.0	1.5	PG35	130	100	2.77	15	3-WAY	
VBR-H112	12	DINING H131/ SERVERY H130	AHU-21H	1280	325	325	1280	0.22	24.4	2	55.0	90.0	1.5	PG35	130	100	2.77	15	3-WAY	
VBR-H113	12	KITCHEN H123	AHU-21H	1260	325	325	1260	0.21	24.0	2	55.0	90.0	1.4	PG35	130	100	2.63	15	3-WAY	
VBR-H114	12	KITCHEN H123	AHU-21H	1375	325	325	1375	0.22	24.3	2	55.0	90.0	1.5	PG35	130	100	2.74	15	3-WAY	
VBR-H115	6	BREAK ROOM H127	AHU-21H	205	80	80	205	0.08	4.0	2	55.0	90.0	0.5	PG35	130	100	0.11	15	3-WAY	
VBR-H116	12	KITCHEN H123	AHU-21H	1330	325	325	1330	0.30	25.3	2	55.0	90.0	1.5	PG35	130	100	1.78	15	3-WAY	
VBR-H117	6	OFFICE H125	AHU-21H	200	80	80	200	0.07	3.9	2	55.0	90.0	0.5	PG35	130	100	0.10	15	3-WAY	
VBR-H118	8	CORRIDOR H122	AHU-21H	600	145	145	600	0.34	11.5	2	55.0	90.0	0.7	PG35	130	100	4.95	15	3-WAY	
VBR-H119	6	STORAGE H124	AHU-21H	150	80	80	150	0.03	3.1	1	55.0	90.0	0.5	PG35	130	100	0.05	15	3-WAY	

GENERAL NOTES:  
1. MODEL NUMBERS ARE TITUS UNLESS OTHERWISE NOTED.  
2. MAXIMUM PRESSURE DROP SCHEDULED SHALL BE THE MAXIMUM ALLOWABLE STATIC PRESSURE FOR BOX AND COIL AT THE MAXIMUM CFM.  
3. HEATING COIL SELECTION BASED ON HEATING MAXIMUM AIR FLOW.  
4. FLUID TYPE: W = WATER, PGXX = PROPYLENE GLYCOL SOLUTION XX PERCENTAGE OF GLYCOL, EGXX = ETHYLENE GLYCOL SOLUTION XX PERCENTAGE OF GLYCOL.

KITCHEN EXHAUST DUCT REQUIREMENT SCHEDULE							
EXHAUST SYSTEM	MINIMUM DESIGN PRESSURE	MINIMUM DESIGN TEMPERATURE (DEG. F)	WORKING PRESSURE	TEST PRESSURE	LIGHT TEST	TEST TIME	ALLOWABLE LEAKAGE
GREASE DUCT	20 PSIG	>200	-5" PSIG	20 PSIG	TEST ALL JOINTS PER NFPA 96	2 HOURS	NONE

NOTES:  
1. CONTRACTOR TO TEST ALL JOIST PER NFPA 96  
2. CAP END OF GREASE DUCTS AND TEST WITH COMPRESSED AIR, REDO JOIST THAT DO NOT PASS, HOLD TEST FOR MINIMUM 2 HOURS

PUMP SCHEDULE																				
UNIT IDENTIFICATION	SYSTEM SERVED	LOCATION	TYPE	COUPLING TYPE	WATERFLOW GPM	FLUID TYPE	COLDEST SYSTEM OPERATING TEMP. °F FOR PUMP SELECTION	PUMP HEAD FT.	OVERLOAD GPM	MINIMUM EFFICIENCY %	MOTOR			MODULATION / CONTROL TYPE	ELECTRICAL				MODEL NUMBER	KEYED NOTES
											BHP	HP	RPM		VOLTS	PHASE	SCCR KA (NOTE 4)	OPTIONS/ACCESSORIES		
P-54	HWH	PENTHOUSE	IN-LINE	CLOSE	140	PG35	70 °F	69	NON-OVERLOADING	77.4	3.97	5	3600	AUTO	480	3	5	---	E-90-2AAC	
P-55	HWH	PENTHOUSE	IN-LINE	CLOSE	140	PG35	70 °F	69	NON-OVERLOADING	77.4	3.97	5	3600	AUTO	480	3	5	---	E-90-2AAC	



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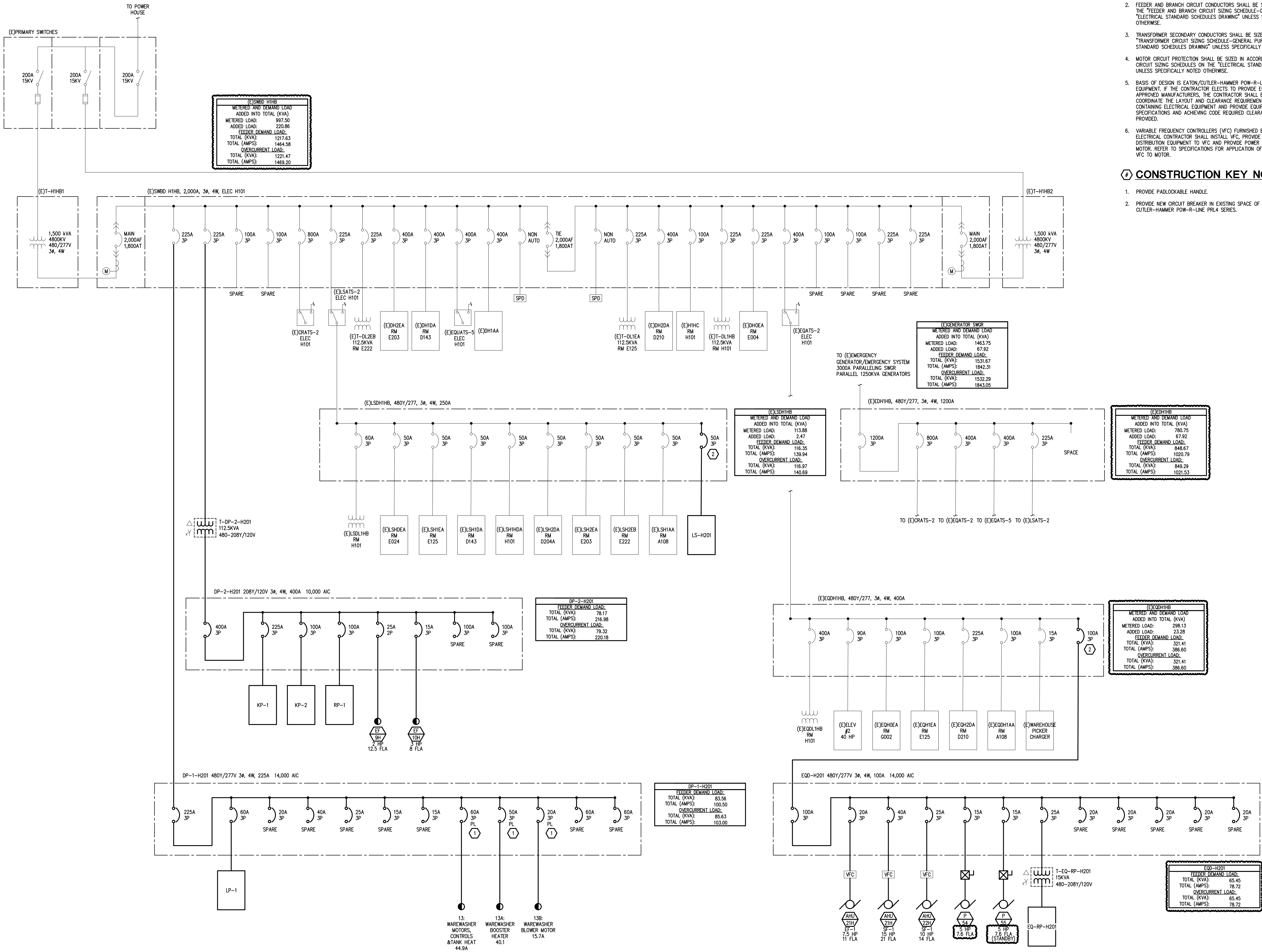


DIAGRAM GENERAL NOTES:

- 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.

ONE-LINE DIAGRAM - SWITCHBOARD H1HB  
NO SCALE

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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

PROJECT DATE

AUGUST 23, 2023

CHECKED BY

TLC

SHEET NUMBER

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