



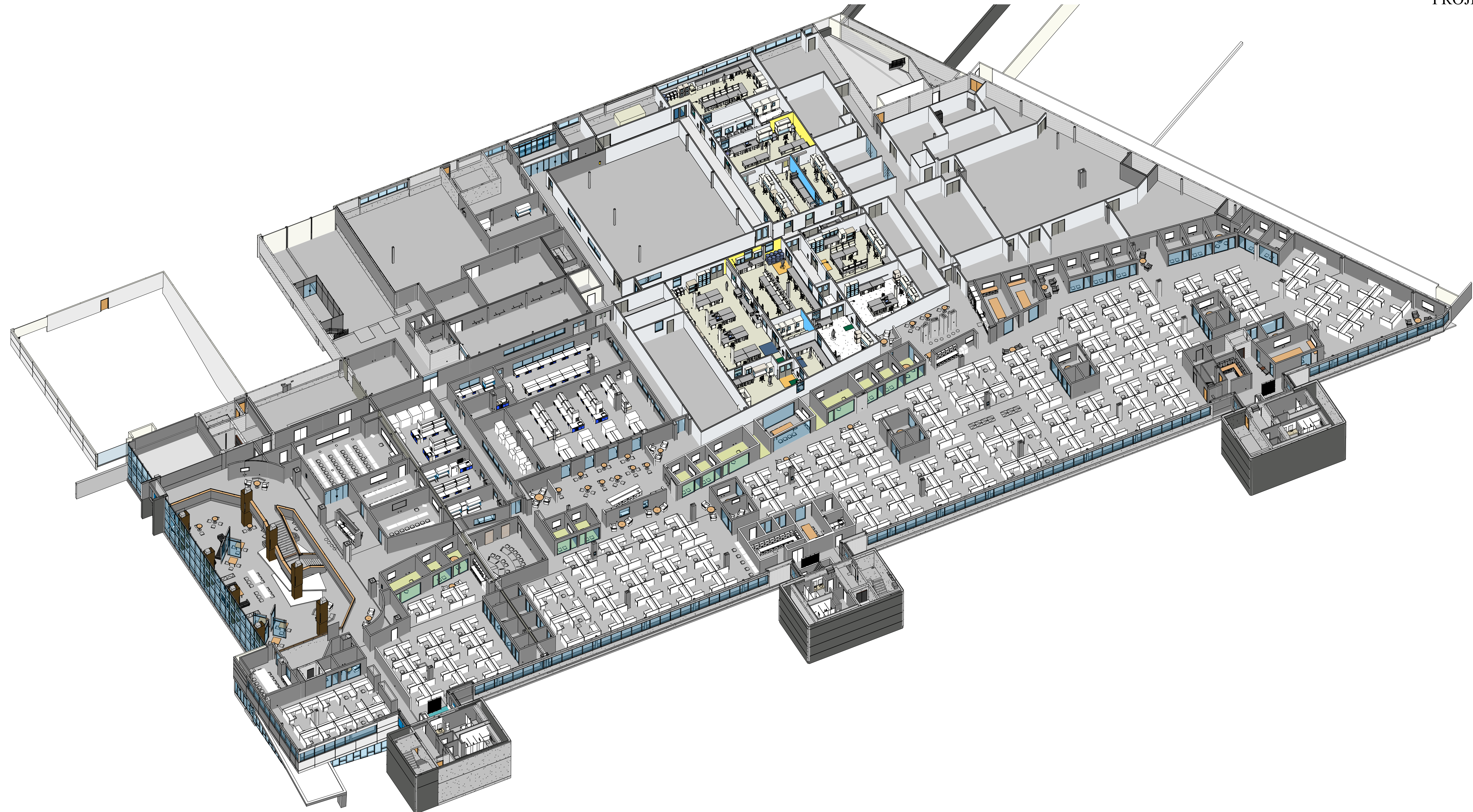
PROJECT INDIGO

RESULTS WAY - 3RD FLOOR

CLD & CCM LABS

JANUARY 21, 2022 - ISSUED FOR BULLETIN 2

PROJECT NUMBER - 20021A



HIGHLAND CORPORATE PARK
800 SCENIC VIEW DRIVE
CUMBERLAND, RI 02864

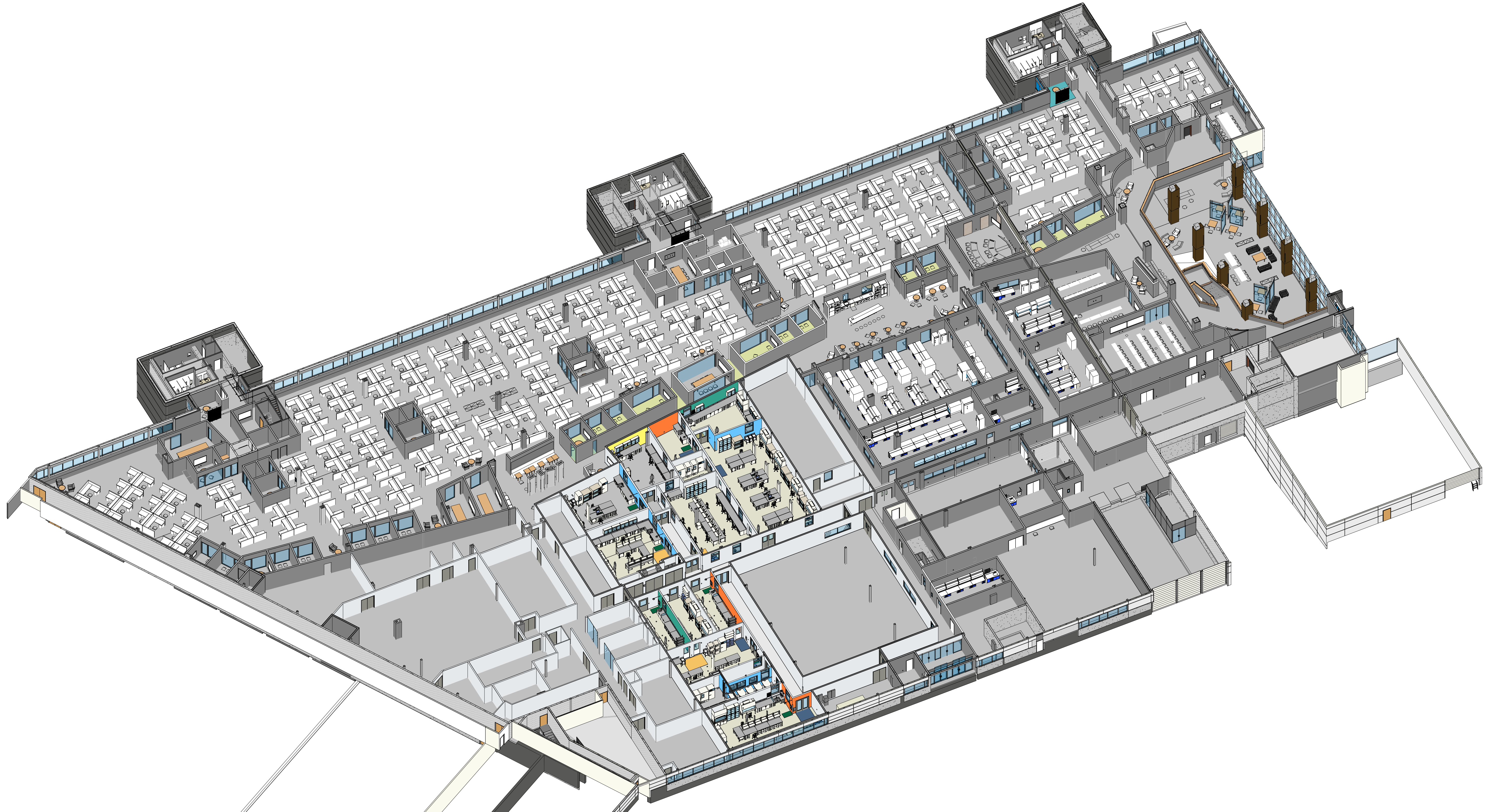
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PROJECT INDIGO

RESULTS WAY - 3RD FLOOR





PROJECT INDIGO
RESULTS WAY - 3RD FLOOR

CLD & CCM LABS

JANUARY 21, 2022 - ISSUED FOR BULLETIN 2

PROJECT NUMBER - 20021A

SHEET NUMBER	SHEET NAME	ISSUE TYPE AND DATE						LATEST DRAWING DATE	LATEST REVISION	INCLUDED IN SET
		ISSUED FOR 60% CLIENT REVIEW - 03/22/21	ISSUED FOR 90% CLIENT REVIEW - 04/19/21	ISSUED FOR CONSTRUCTION - 06/10/21	REVISED AS NOTED - 08/20/21	ISSUED FOR BULLETIN 1 - 10/22/21	ISSUED FOR BULLETIN 2 - 01/21/22			

GENERAL										
G-001	COVER SHEET		X	X	X	X	X	10/22/21	2	
G-002	COVER SHEET			X	X			06/10/21	0	
G-003	SHEET INDEX (FORMERLY G-002 @ 60% SET)		X	X	X	X	X	01/21/22	3	X
G-004	SHEET INDEX - SKETCHES		X				X	01/21/22	0	X

GENERAL ARRANGEMENT										
GA-100	OVERALL THIRD FLOOR PLAN		X	X	X			06/10/21	0	
GA-101	PARTIAL THIRD FLOOR PLAN WEST SHELL SPACE		X	X	X			06/10/21	0	
GA-102	PARTIAL THIRD FLOOR PLAN EAST SHELL SPACE		X	X	X			06/10/21	0	
GA-401	ENLARGED WEST SHELL SPACE PART "A"		X	X	X			01/21/22	1	
GA-402	ENLARGED WEST SHELL SPACE PART "B"		X	X	X			01/21/22	1	
GA-403	ENLARGED EAST SHELL SPACE PART "A"		X	X	X			06/10/21	0	
GA-404	ENLARGED EAST SHELL SPACE PART "B"		X	X	X			06/10/21	0	

ARCHITECTURAL										
A-001	LEAD SHEET		X	X	X			06/10/21	0	
A-001.1	SITE LOGISTICS & UTILIZATION			X	X			08/20/21	0	
A-002	LIFE SAFETY PLAN		X	X	X			06/10/21	0	
AD-101	PARTIAL DEMOLITION PLAN WEST SHELL SPACE				X			06/10/21	0	
AD-102	PARTIAL DEMOLITION PLAN EAST SHELL SPACE				X			06/10/21	0	
A-101	PARTIAL THIRD FLOOR PLAN WEST SHELL SPACE		X	X	X			06/10/21	0	
A-102	PARTIAL THIRD FLOOR PLAN EAST SHELL SPACE		X	X	X			06/10/21	0	
A-103	PARTIAL ROOF PLAN ROOFING DETAILS				X			06/10/21	0	
A-201	PARTIAL REFLECTED CEILING PLAN WEST SHELL SPACE		X	X	X			01/21/22	1	
A-202	PARTIAL REFLECTED CEILING PLAN EAST SHELL SPACE		X	X	X			01/21/22	1	
A-301	BUILDING SECTIONS			X	X			06/10/21	0	
A-302	BUILDING SECTIONS			X	X			06/10/21	0	
A-303	BUILDING SECTIONS			X	X	X		08/20/21	1	
A-401	ENLARGED WEST SHELL SPACE PART "A"		X	X	X	X		08/20/21	1	
A-402	ENLARGED WEST SHELL SPACE PART "B"		X	X	X			06/10/21	0	
A-403	ENLARGED EAST SHELL SPACE PART "A"		X	X	X	X		10/22/21	2	
A-404	ENLARGED EAST SHELL SPACE PART "B"		X	X	X			06/10/21	0	
A-405	PARTIAL FLOOR FINISH PLAN WEST SHELL SPACE			X	X		X	10/22/21	1	
A-406	PARTIAL FLOOR FINISH PLAN EAST SHELL SPACE			X	X		X	10/22/21	1	
A-411	ENLARGED WEST SHELL SPACE REFLECTED CEILING PLAN PART "A"			X	X			01/21/22	1	
A-412	ENLARGED WEST SHELL SPACE REFLECTED CEILING PLAN PART "B"			X	X			01/21/22	1	
A-413	ENLARGED EAST SHELL SPACE REFLECTED CEILING PLAN PART "A"			X	X		X	10/22/21	1	
A-414	ENLARGED EAST SHELL SPACE REFLECTED CEILING PLAN PART "B"			X	X			06/10/21	0	
A-501	ENLARGED BLDG. SECTIONS DETAILS			X	X	X		08/20/21	1	
A-502	ENLARGED BLDG. SECTIONS DETAILS			X	X	X		01/21/22	2	
A-601	DOOR & WINDOW SCHEDULE		X	X	X		X	10/22/21	1	
A-602	WINDOW & FINISH SCHEDULES PARTITION & CEILING TYPES			X	X	X		08/20/21	1	
A-603	INTERIOR DETAILS				X			06/10/21	0	
A-701	INTERIOR ELEVATIONS		X	X	X			01/21/22	1	
A-702	INTERIOR ELEVATIONS		X	X	X			01/21/22	1	
A-703	INTERIOR ELEVATIONS		X	X	X			06/10/21	0	
A-704	INTERIOR ELEVATIONS		X	X	X			06/10/21	0	
A-705	INTERIOR ELEVATIONS		X	X	X			06/10/21	0	
A-901	INTERIOR RENDERINGS OVERVIEW - WEST SHELL			X	X			06/10/21	0	
A-902	INTERIOR RENDERINGS OVERVIEW - EAST SHELL			X	X			06/10/21	0	
A-903	INTERIOR RENDERINGS ROOMS 3521, 3522			X	X			06/10/21	0	
A-904	INTERIOR RENDERINGS ROOMS 3525, 3526, 3530			X	X			06/10/21	0	
A-905	INTERIOR RENDERINGS ROOMS 3533, 3534			X	X			06/10/21	0	
A-906	INTERIOR RENDERINGS ROOM 3540			X	X			06/10/21	0	

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STRUCTURAL										
S-001	GENERAL NOTES			X	X			06/10/21	0	
S-101	WEST MEZZANINE FRAMING PLAN		X	X	X	X		01/21/22	2	X
S-102	EAST MEZZANINE FRAMING PLAN		X	X	X	X	X	01/21/22	3	X
S-103	3RD FLOOR SLAB PLAN			X	X			06/10/21	0	
S-501	STRUCTURAL DETAILS			X	X			01/21/22	1	X
S-502	ROOF PENETRATION AND SUPPORT DETAILS				X		X	01/21/22	1	X
S-503	LADDER DETAILS				X			06/10/21	0	

MECHANICAL										
M-001	HVAC & PLUMBING LEAD SHEET			X	X			06/10/21	0	
PLUMBING										
PL-001	SPECIFICATIONS			X	X	X	X	10/22/21	2	
PL-101	THIRD FLOOR WATER PIPING (WEST)			X	X	X	X	01/21/22	3	
PL-102	THIRD FLOOR WATER PIPING (EAST)			X	X			06/10/21	0	
PL-103	THIRD FLOOR LAB WASTE & VENT (WEST)			X	X	X		01/21/22	2	
PL-104	THIRD FLOOR LAB WASTE & VENT (EAST)			X	X	X	X	01/21/22	3	
PL-105	SECOND FLOOR LAB WASTE & VENT			X	X	X		08/20/21	1	
PL-106	THIRD FLOOR GAS PIPING (WEST)			X	X			01/21/22	1	
PL-107	THIRD FLOOR WATER PIPING (EAST)			X	X			06/10/21	0	
PL-501	DETAILS			X	X			06/10/21	0	
PL-601	SCHEDULES			X	X	X	X	10/22/21	2	

HVAC										
H-001.	LEAD SHEET (DISCONTINUED)		X					03/22/21	A	
H-001	SPECIFICATIONS			X	X			06/10/21	0	
H-002	SPECIFICATIONS			X	X			06/10/21	0	
H-003	SPECIFICATIONS			X	X			06/10/21	0	
H-004	SPECIFICATIONS			X	X			06/10/21	0	
H-101	ZONE PLAN WEST		X	X	X			06/10/21	0	
H-102	ZONE PLAN EAST		X	X	X			06/10/21	0	
H-103	HVAC PLAN WEST		X	X	X			01/21/22	1	
H-103.1	HVAC HYDRONIC PLAN WEST			X	X			01/21/22	1	
H-104	HVAC PLAN EAST		X	X	X			06/10/21	0	
H-104.1	HVAC HYDRONIC PLAN EAST			X	X			06/10/21	0	
H-105	HVAC ROOF PLAN		X	X	X			06/10/21	0	
H-501	HVAC SCHEDULES		X	X	X		X	10/22/21	1	
H-601	AIRFLOW DIAGRAMS		X	X	X			06/10/21	0	
H-602	AIRFLOW DIAGRAM		X	X	X			06/10/21	0	
H-603	AIRFLOW DIAGRAM		X	X	X			06/10/21	0	
H-604	HVAC CONTROL DIAGRAMS			X	X			06/10/21	0	
H-605	HVAC CONTROL DIAGRAMS			X	X			06/10/21	0	
H-701	HVAC DETAILS			X	X			06/10/21	0	
H-702	HVAC DETAILS			X	X			01/21/22	1	
H-703	HVAC DETAILS			X	X			06/10/21	0	

FIRE PROTECTION										
FP-101	FIRE PROTECTION PLAN WEST			X	X			06/10/21	0	
FP-102	FIRE PROTECTION PLAN EAST			X	X			06/10/21	0	

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ELECTRICAL										
E-001	LEAD SHEET		X	X	X		X	10/22/21	1	
E-101	LEVEL 3 WEST PART PLAN 120 VAC POWER LAYOUT		X	X	X		X	10/22/21	1	
E-101.1	LEVEL 3 WEST PART PLAN HVAC POWER LAYOUT		X	X	X			06/10/21	0	
E-101.2	ENLARGED WEST SHELL SPACE 120 VAC POWER LAYOUT			X	X		X	01/21/22	2	
E-102	LEVEL 3 EAST PART PLAN 120 VAC POWER LAYOUT		X	X	X			01/21/22	1	X
E-102.1	LEVEL 3 EAST PART PLAN HVAC POWER LAYOUT		X	X	X			06/10/21	0	
E-102.2	ENLARGED EAST SHELL SPACE 120 VAC POWER LAYOUT			X	X		X	01/21/22	2	X
E-103	LEVEL 3 PART PLAN CONDUIT LAYOUT			X	X			06/10/21	0	
E-104	LEVEL 3 WEST PART PLAN LIGHTING LAYOUT			X	X	X		01/21/22	2	X
E-105	LEVEL 3 EAST PART PLAN LIGHTING LAYOUT			X	X	X		08/20/21	1	
E-106	LEVEL 3 WEST PART PLAN DATA AND SPECIAL SYSTEMS			X	X			06/10/21	0	
E-107	LEVEL 3 EAST PART PLAN DATA AND SPECIAL SYSTEMS			X	X		X	01/21/22	1	X
E-108	LEVEL 3 WEST PART PLAN FIRE ALARM			X	X			01/21/22	1	X
E-109	LEVEL 3 EAST PART PLAN FIRE ALARM			X	X		X	01/21/22	1	X
E-110	LEVEL 3 WEST PART PLAN SECURITY LAYOUT			X				06/10/21	0	
E-111	LEVEL 3 WEST PART PLAN SECURITY LAYOUT			X				06/10/21	0	
E-112	SECOND FLOOR PART PLAN 120 VAC POWER LAYOUT			X			X	01/21/22	2	X
E-120	ROOF WEST PART PLAN HVAC POWER LAYOUT			X	X		X	01/21/22	1	X
E-121	ROOF EAST PART PLAN HVAC POWER LAYOUT			X	X			01/21/22	1	X
E-122	BUILDING SECTIONS 120 VAC POWER WEST LAYOUT			X	X			06/10/21	0	
E-123	BUILDING SECTIONS 120 VAC POWER EAST LAYOUT			X			X	01/21/22	1	X
E-501	ONE LINE DIAGRAM NORMAL POWER - DP-31		X	X	X		X	10/22/21	1	
E-502	ONE LINE DIAGRAM NORMAL POWER - DP-32		X	X	X			06/10/21	0	
E-503	ONE LINE DIAGRAM NORMAL POWER - DP-33		X	X	X		X	10/22/21	1	
E-504	ONE LINE DIAGRAM STANDBY POWER SDP1		X	X	X		X	10/22/21	1	
E-505	ONE LINE DIAGRAM UPS POWER UDP31		X	X	X		X	10/22/21	1	
E-506	PANELS SCHEDULES 480 / 277 VAC			X	X	X		10/22/21	1	
E-506.1	PANELS SCHEDULES 480 / 277 VAC CONT.				X	X		10/22/21	1	
E-507	PANELS SCHEDULES 208 / 120 VAC			X	X	X		10/22/21	1	
E-508	PANELS SCHEDULES 208 / 120 VAC CONT.			X	X	X	X	01/21/22	2	X
E-509	PANELS SCHEDULES 277 VAC			X	X	X		10/22/21	1	
E-510	DETAILS AND 3D VIEWS			X	X		X	01/21/22	1	X



HART DESIGN GROUP

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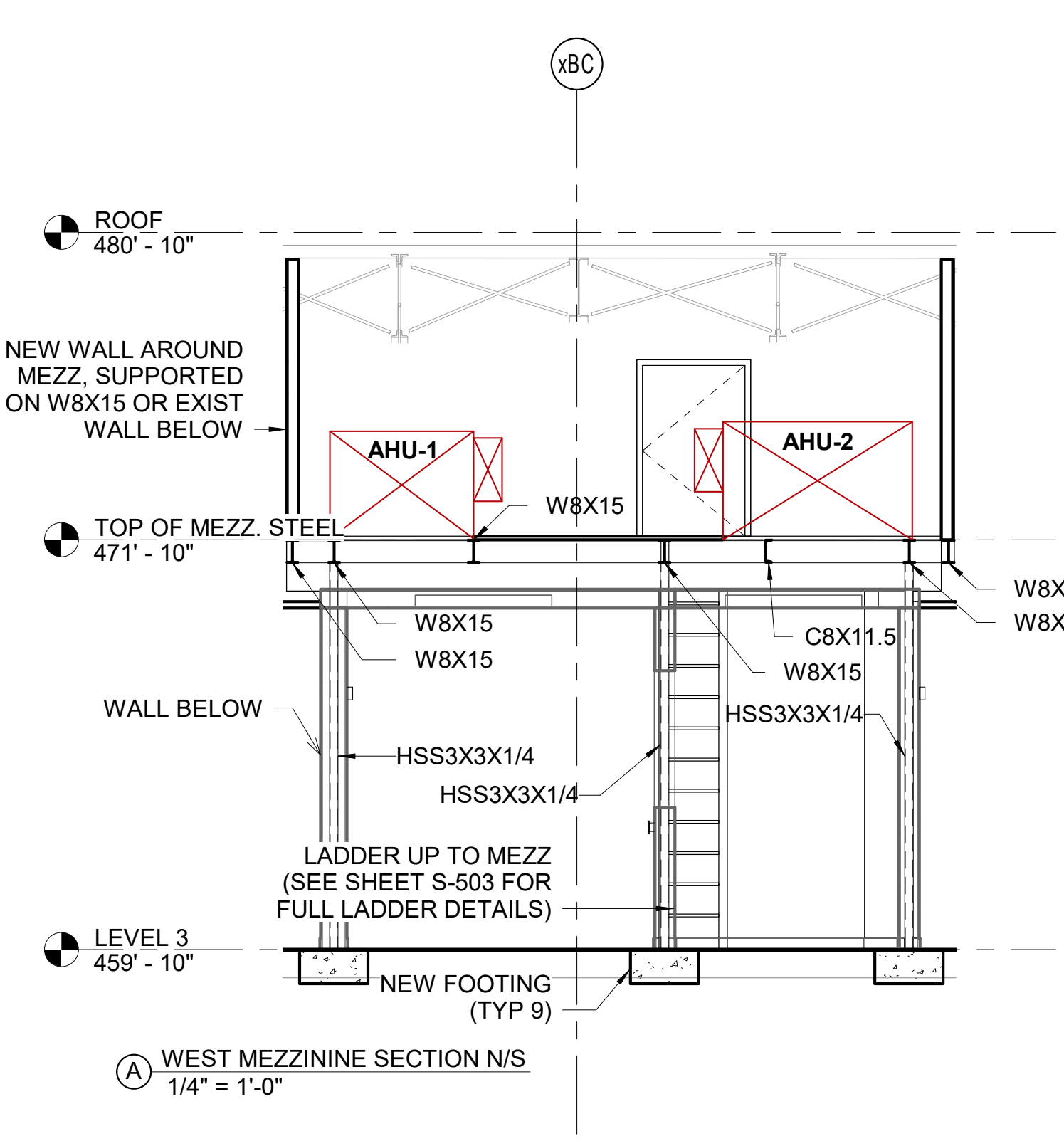
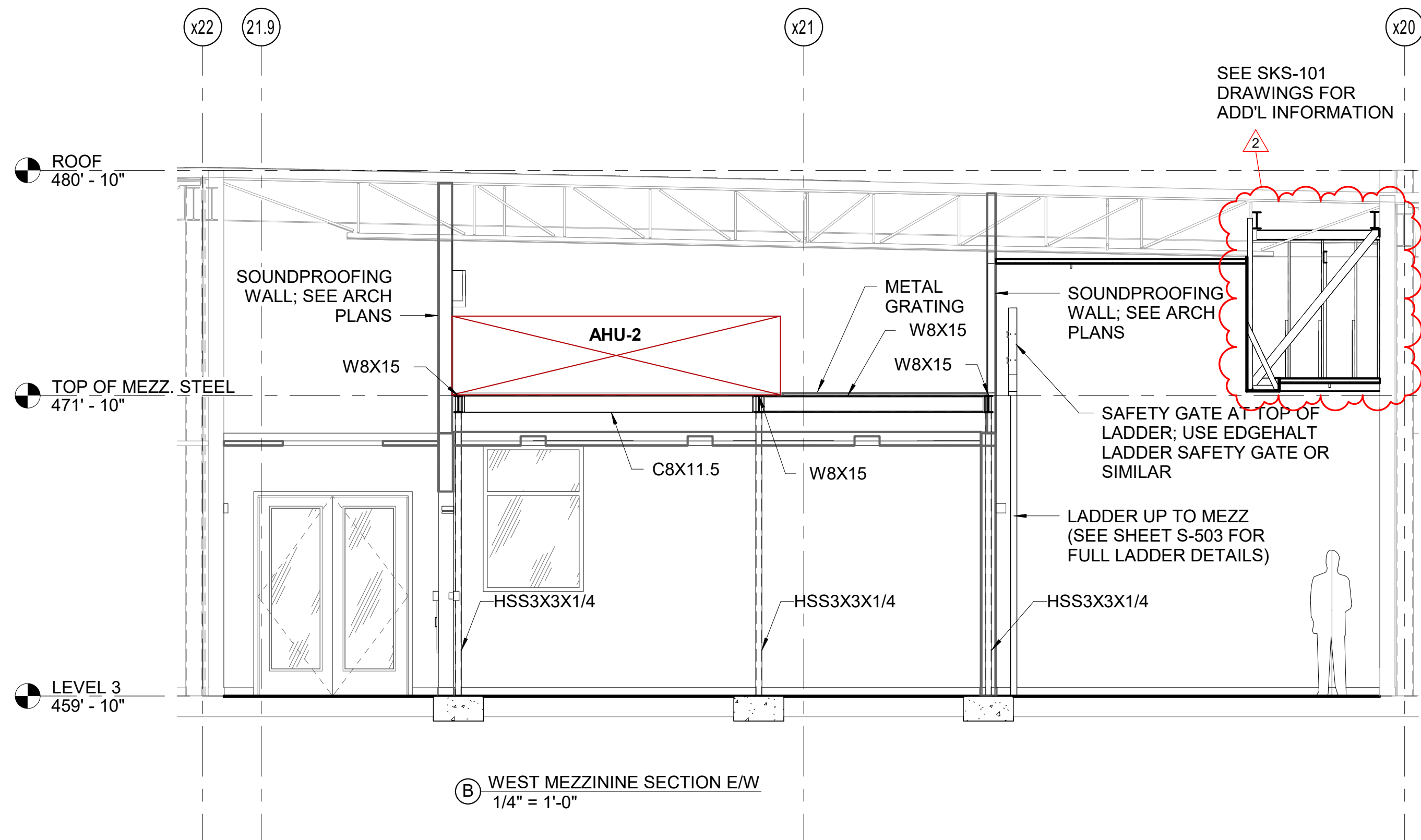
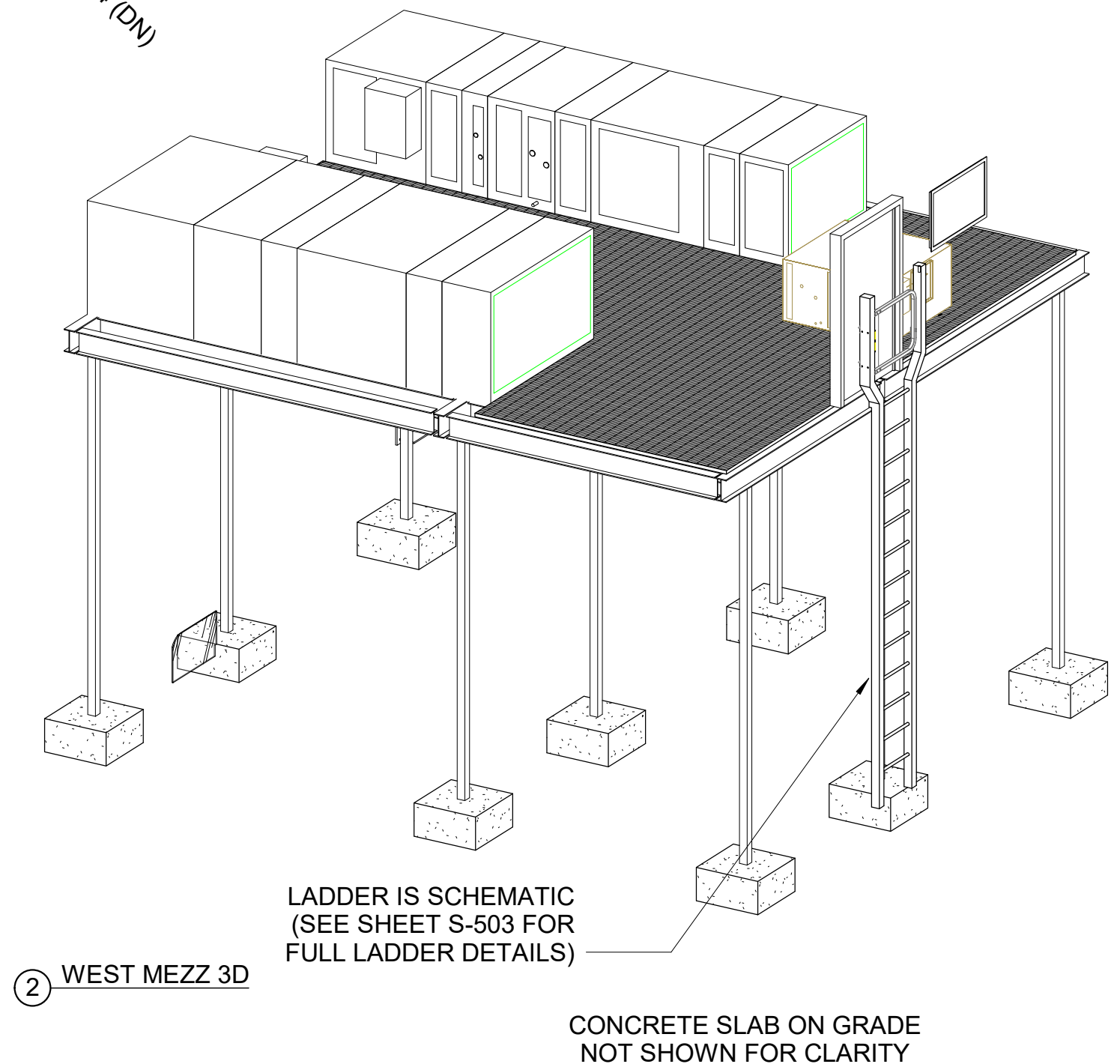
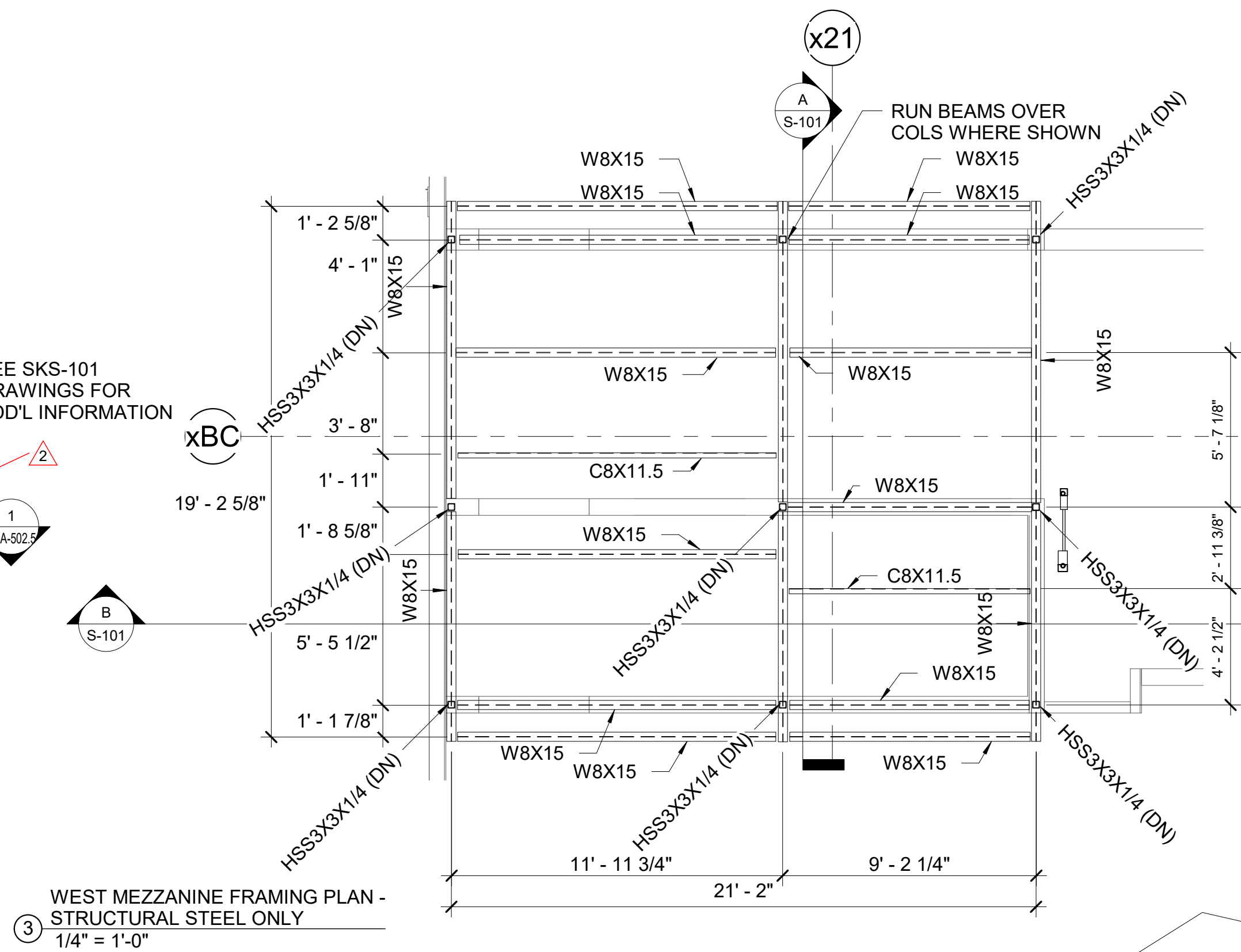
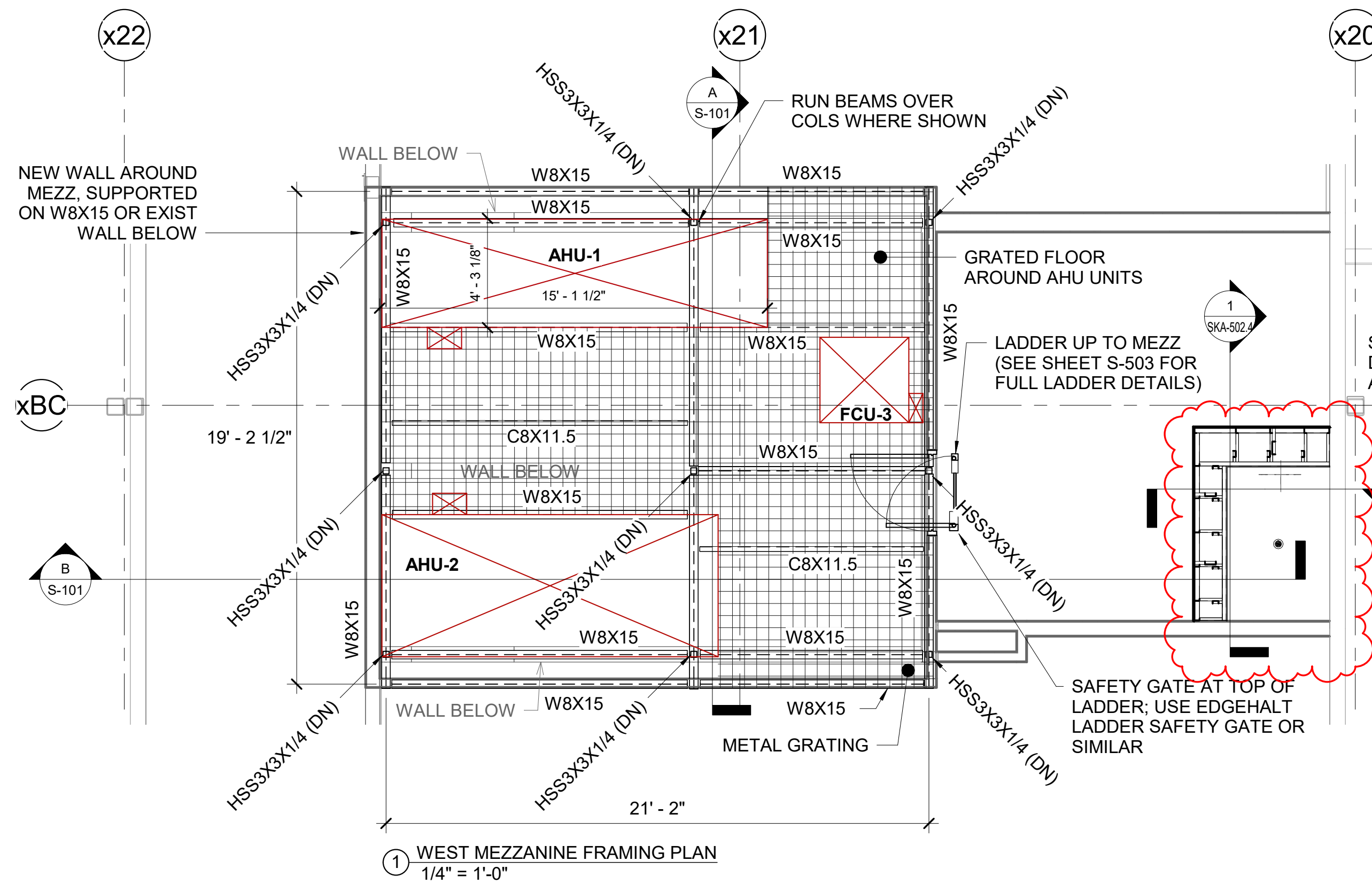
CLD & CCM LABS
JANUARY 21, 2022 - ISSUED FOR BULLETIN 2
PROJECT NUMBER - 20021A

SKETCH NUMBER	SHEET NAME	ISSUE DATE	INCLUDED IN SET
ARCHITECTURAL			
SKA-402	CORNER GUARD PLAN CLONING LAB - 3524	10/28/21	X
SKA-404	CORNER GUARD PLAN QUAR. LAB - 3537	10/28/21	X
SKA-405.0	CRYO STOR. RM. 3522 & LN2 STOR. RM. 3523 SK PACKAGE INDEX 01/11/22	01/11/22	X
SKA-405.1	CRYO STOR. RM. 3522 & LN2 STOR. RM. 3523 ENLARGED CEILING FRAMING PLAN	01/11/22	X
SKA-405.2	CRYO STOR. RM. 3522 & LN2 STOR. RM. 3523 ENLARGED SECTION	01/11/22	X
SKA-501	ADA SINK FIXTURE P-7 CASEWORK DRAWINGS	11/18/21	X
SKA-502.1	PIPE ENCLOSURE - CRYO. STOR. RM. 3522 ENLARGED FLOOR PLAN AT MEZZANINE LEVEL	01/11/22	X
SKA-502.2	PIPE ENCLOSURE - CRYO. STOR. RM. 3522 ENLARGED REFLECTED CEILING PLAN	01/11/22	X
SKA-502.3	PIPE ENCLOSURE - CRYO. STOR. RM. 3522 OVERVIEW SECTIONS	01/11/22	X
SKA-502.4	PIPE ENCLOSURE - CRYO. STOR. RM. 3522 ENLARGED SECTION - E/W THROUGH SOFFIT	01/11/22	X
SKA-502.5	PIPE ENCLOSURE - CRYO. STOR. RM. 3522 ENLARGED SECTION - N/S THROUGH SOFFIT	01/11/22	X
SKA-502.6	PIPE ENCLOSURE - CRYO. STOR. RM. 3522 INTERIOR RENDERING - RM. 3522	01/11/22	X
SKA-502.7	PIPE ENCLOSURE - CRYO. STOR. RM. 3522 3D VIEWS	01/11/22	X
SKA-504.1	WALL CLOSURE PLAN DETAIL MO. BIO. LAB EXTERIOR WALL	01/21/22	X
SKA-503.1	REVISED SECTION, SILL, & CLOSURE DETAILS MO. BIO. LAB EXTERIOR WALL	01/21/22	X
STRUCTURAL			
SK-3	ALTERNATE BRACE CONNECTION DETAIL	11/02/21	X
SK-4	HUMIDIFIER FRAME DETAILS	11/24/21	X
SK-5	ALTERNATE ROOF PENETRATION DETAIL	12/07/21	X
SKS-101.1	PIPE ENCLOSURE - CRYO. STOR. RM. 3522 ENLARGED PLAN VIEWS	01/11/22	X
SKS-101.2	PIPE ENCLOSURE - CRYO. STOR. RM. 3522 ENLARGED SECTIONS	01/11/22	X
SKS-101.3	PIPE ENCLOSURE - CRYO. STOR. RM. 3522 CONNECTION DETAILS	01/11/22	X
SKS-101.4	PIPE ENCLOSURE - CRYO. STOR. RM. 3522 CONNECTION DETAILS	01/11/22	X
PLUMBING			
SKP-1	RFI-006 PIPE PENETRATION SKETCH	11/15/21	X
SKP-2	PIPING CONFIGURATION FOR ELECTRICAL BOX COORDINATION (SUPERSEDED BY APPROVED SHOP DRAWINGS)	11/24/21	X
SKP-3	THIRD FLOOR GAS PLUMBING MO BIO LAB CO2 PIPING	01/21/22	X
HVAC			
SKH-1	DUCTWORK AND PIPING CONFIGURATION FOR ELECTRICAL BOX COORDINATION	11/24/21	X
SKH-2	UPDATED HUMIDIFIER DETAIL RFI-028	01/14/22	X
ELECTRICAL			
SKE-101	MAIN LABS AND SHARED ANLY. ENLARGED POWER PART PLAN	12/15/21	X
SKE-102	MO BIO LAB -POWER ENLARGED POWER PART PLAN	12/15/21	X
SKE-103	ENLARGED POWER PART PLAN	12/15/21	X
SKE-104	CRYO STOR. RM. 3522 & LN2 STOR. RM. 3523 LIGHTING PART PLAN	01/12/22	X



IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

1" = 0'



GENERAL NOTE:

ALL CONTRACTED PARTIES ARE REQUIRED TO REVIEW ALL CONTRACT DOCUMENTS, INCLUDING CONTRACT DRAWINGS AND/OR PROJECT SPECIFICATIONS, FOR ALL DISCIPLINES TO ASCERTAIN THE COMPLETE SCOPE OF WORK FOR THE PROJECT.

DSGN:

TT
DR: KM
CHK: TT
APVD: KC

REV.

A
B
0
1
2

DATE

03-22-21
04-19-21
06-10-21
08-20-21
01-21-22

REVISION DESCRIPTION

ISSUED FOR 60% CLIENT REVIEW
ISSUED FOR 90% CLIENT REVIEW
ISSUED FOR CONSTRUCTION
REVISED AS NOTED
ISSUED FOR BULLETIN 2

DWG.

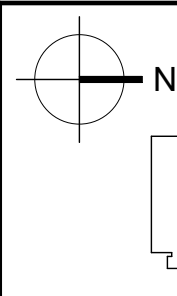
KM
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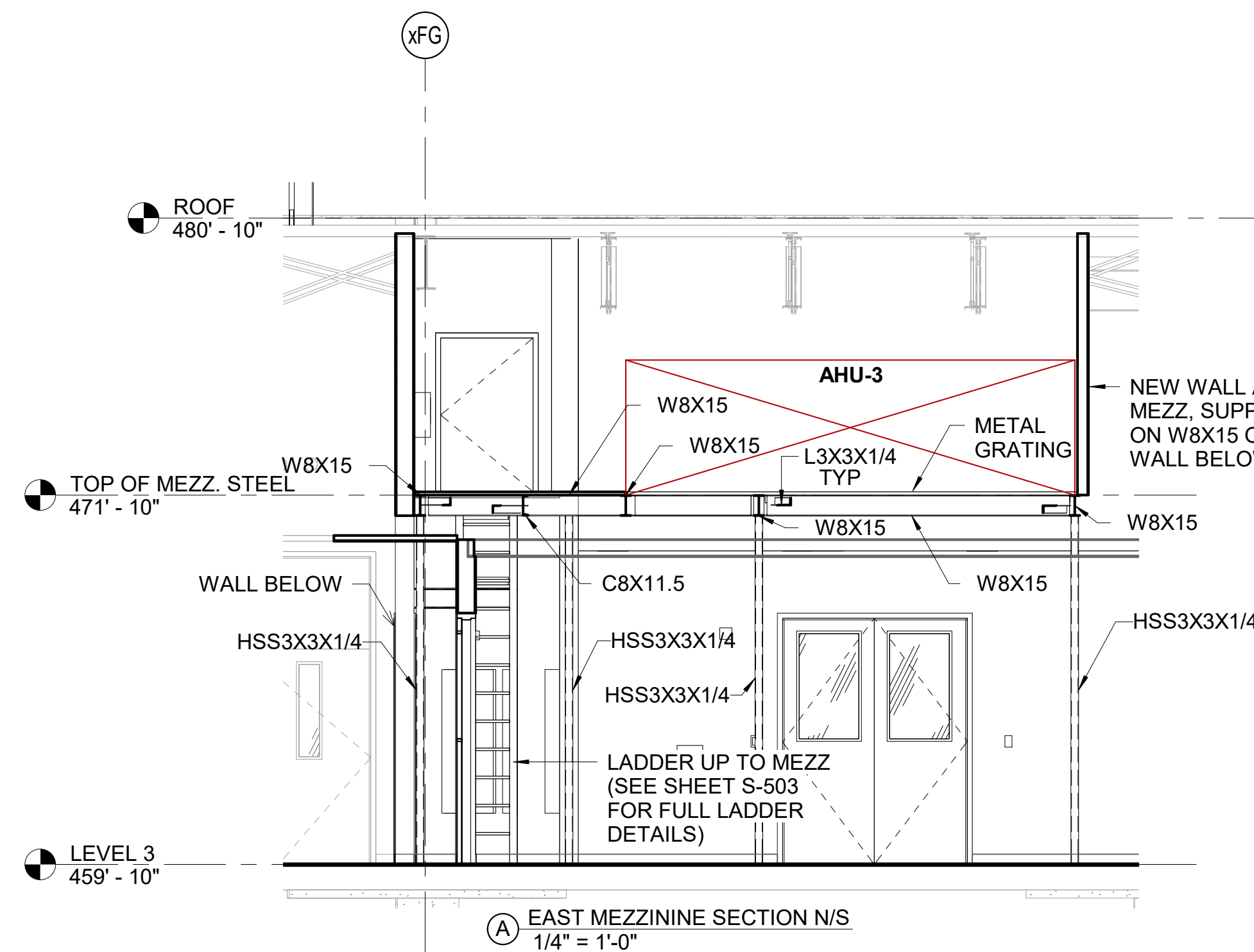
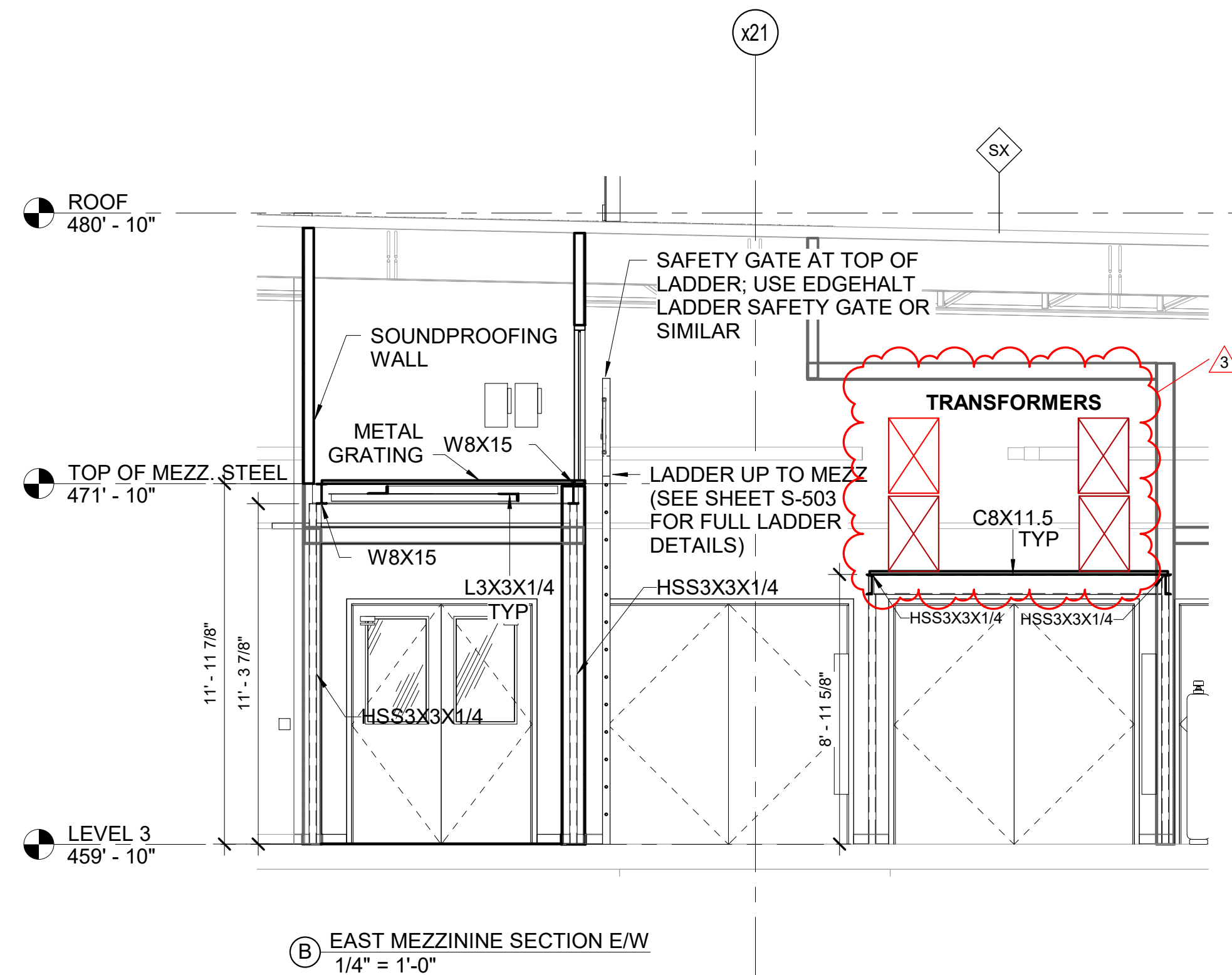
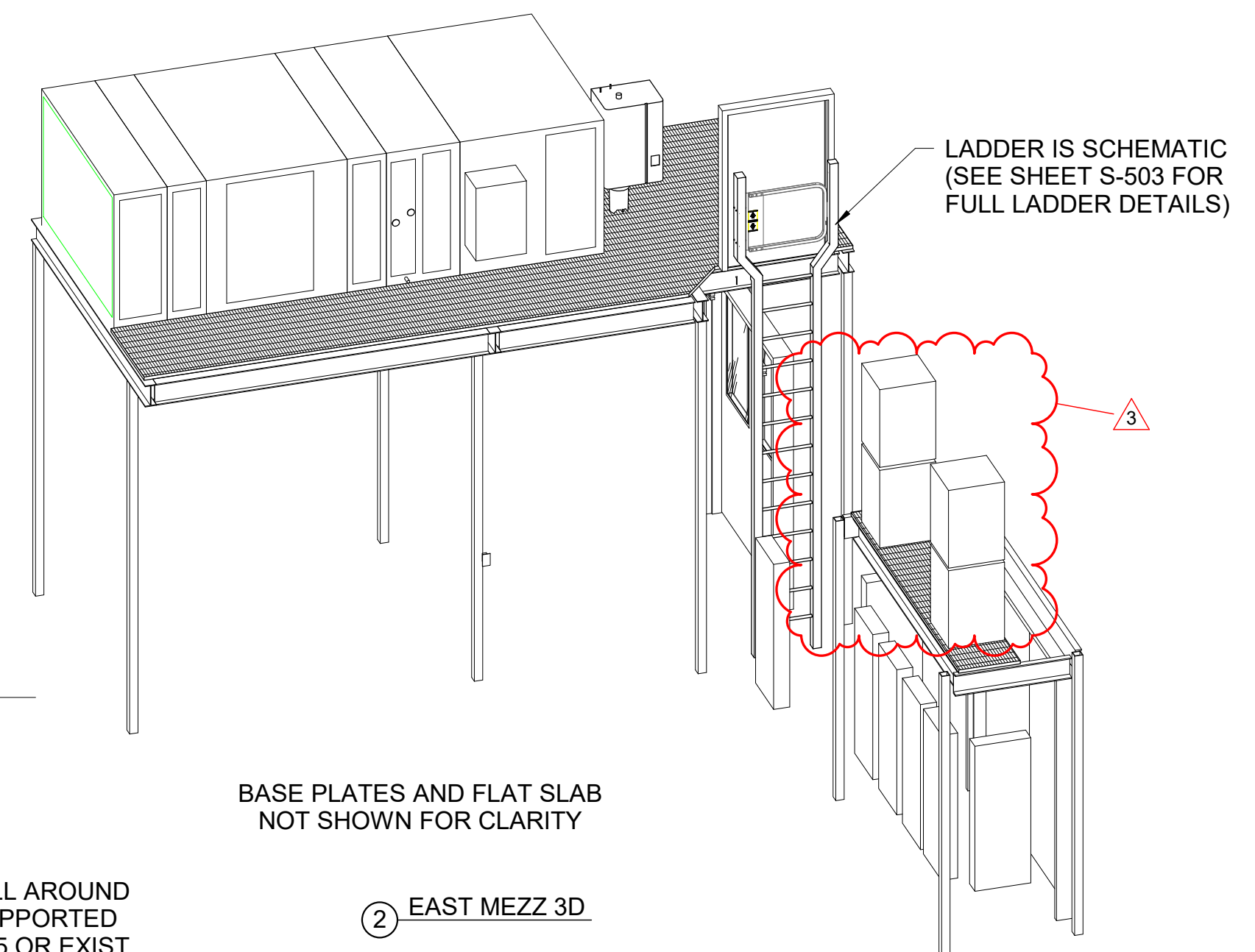
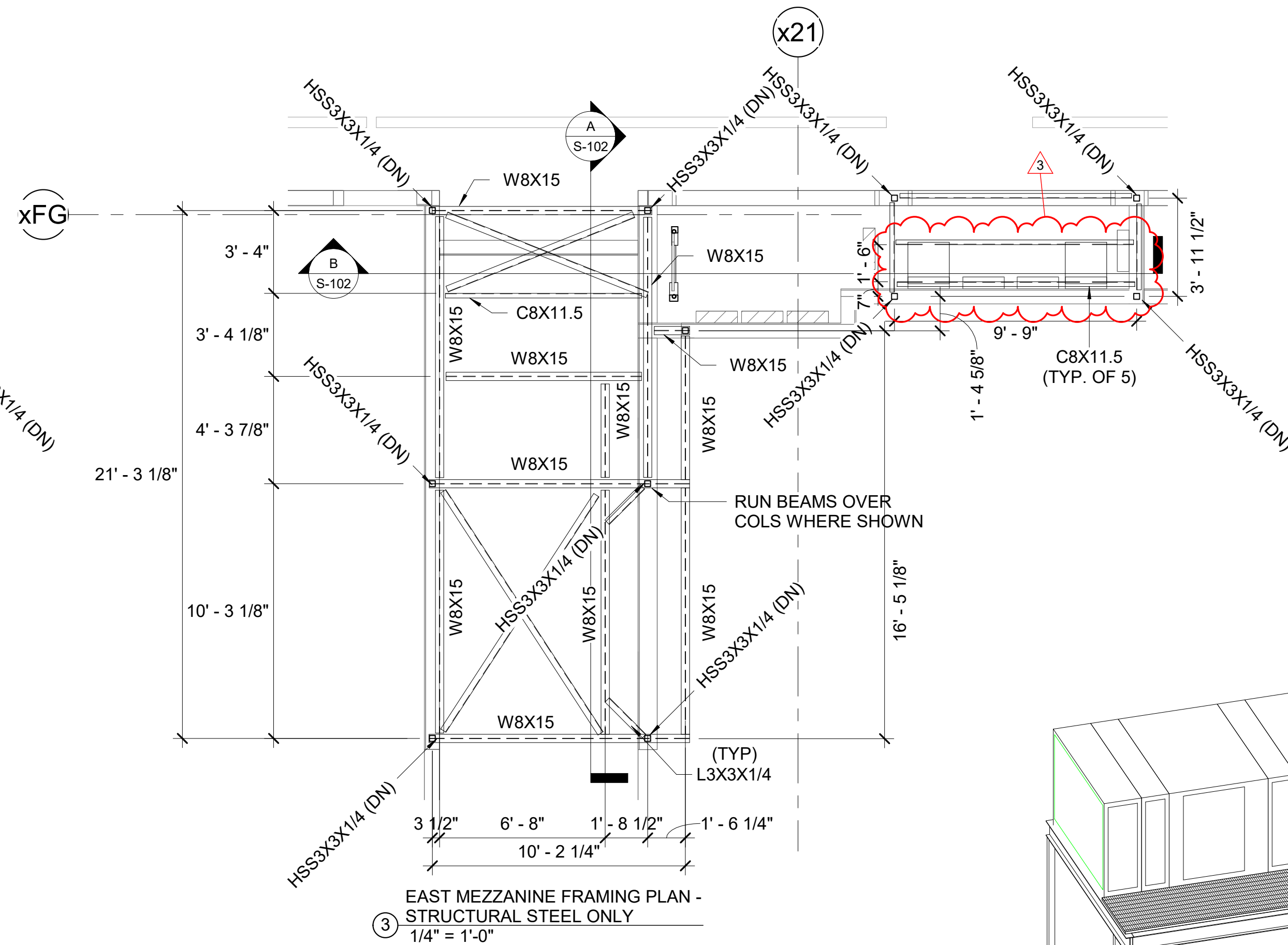
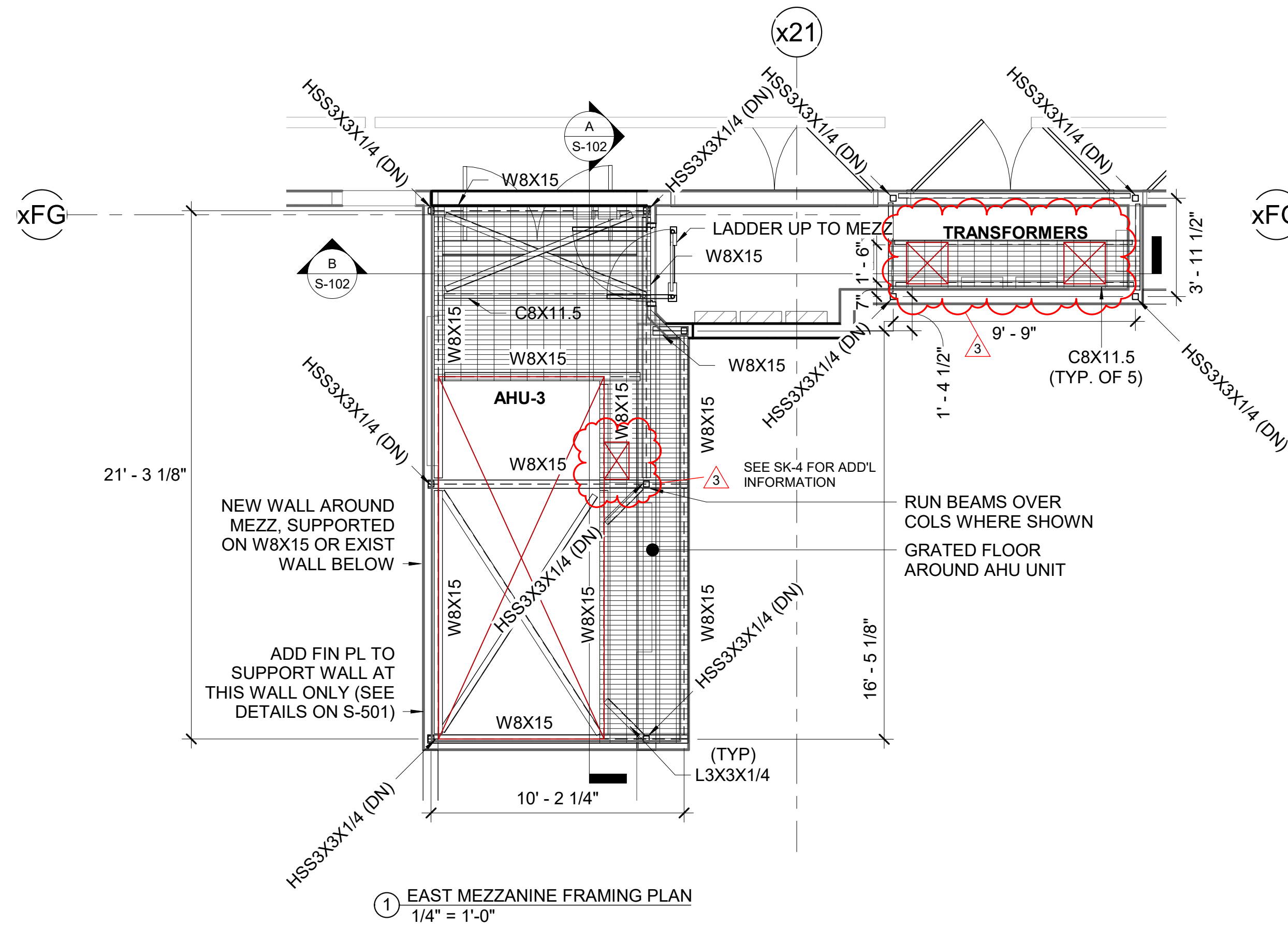


ISSUE DATE:

SCALE: AS NOTED

SHEET NUMBER

S-101



IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

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DSGN:

TT
DR: KM
CHK: TT
APVD: KC

REV.

A 04-19-21
0 06-10-21
1 08-20-21
2 10-22-21
3 01-21-22

DATE

REVISION DESCRIPTION

ISSUED FOR 90% CLIENT REVIEW
ISSUED FOR CONSTRUCTION
REVISED AS NOTED
ISSUED FOR BULLETIN 1
ISSUED FOR BULLETIN 2

DWG.

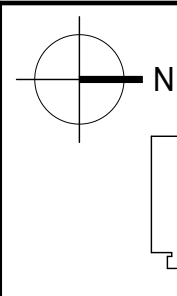
KC
KC
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CHK.

TT
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ISSUE DATE:

SCALE: AS NOTED

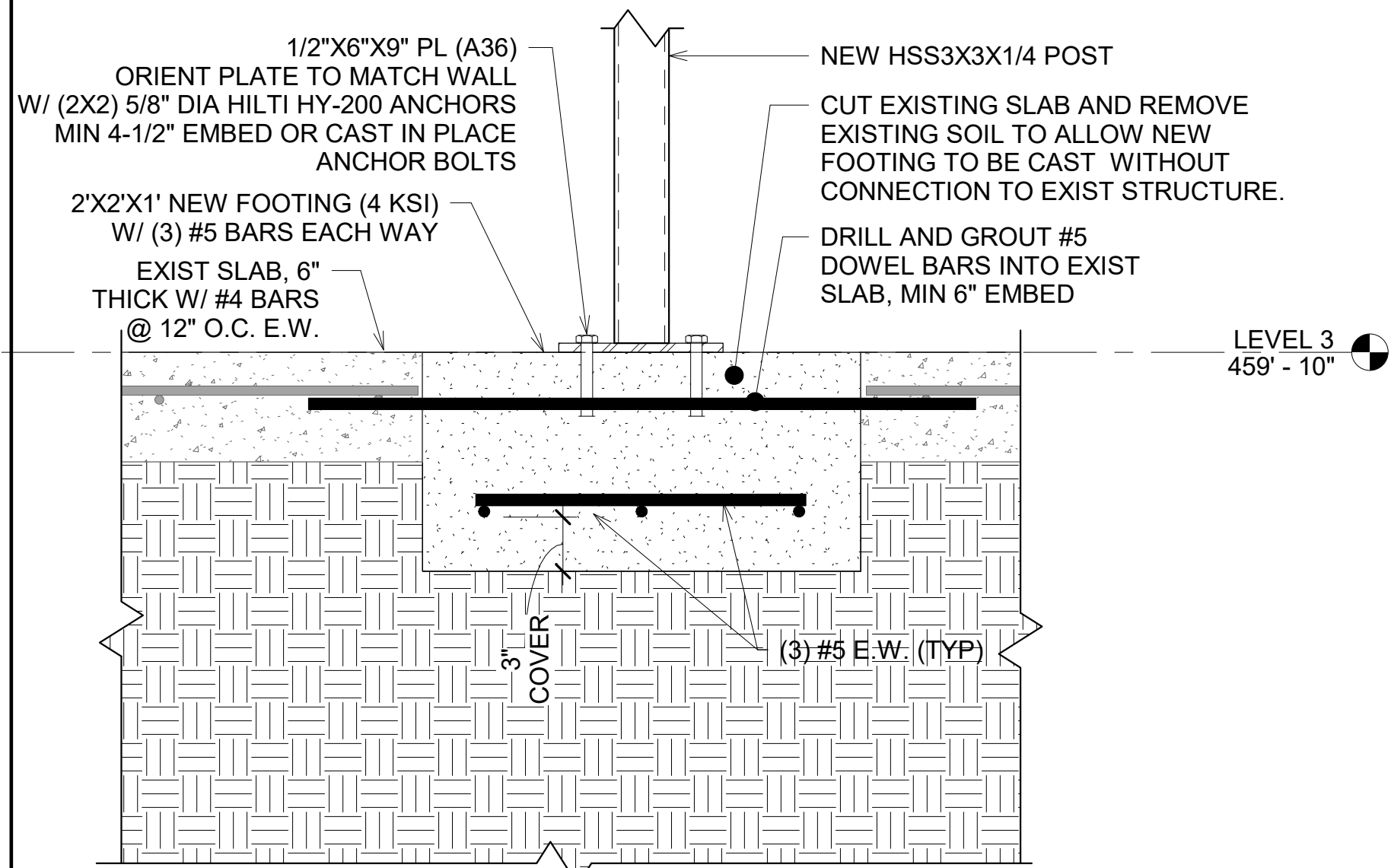
SHEET NUMBER

S-102

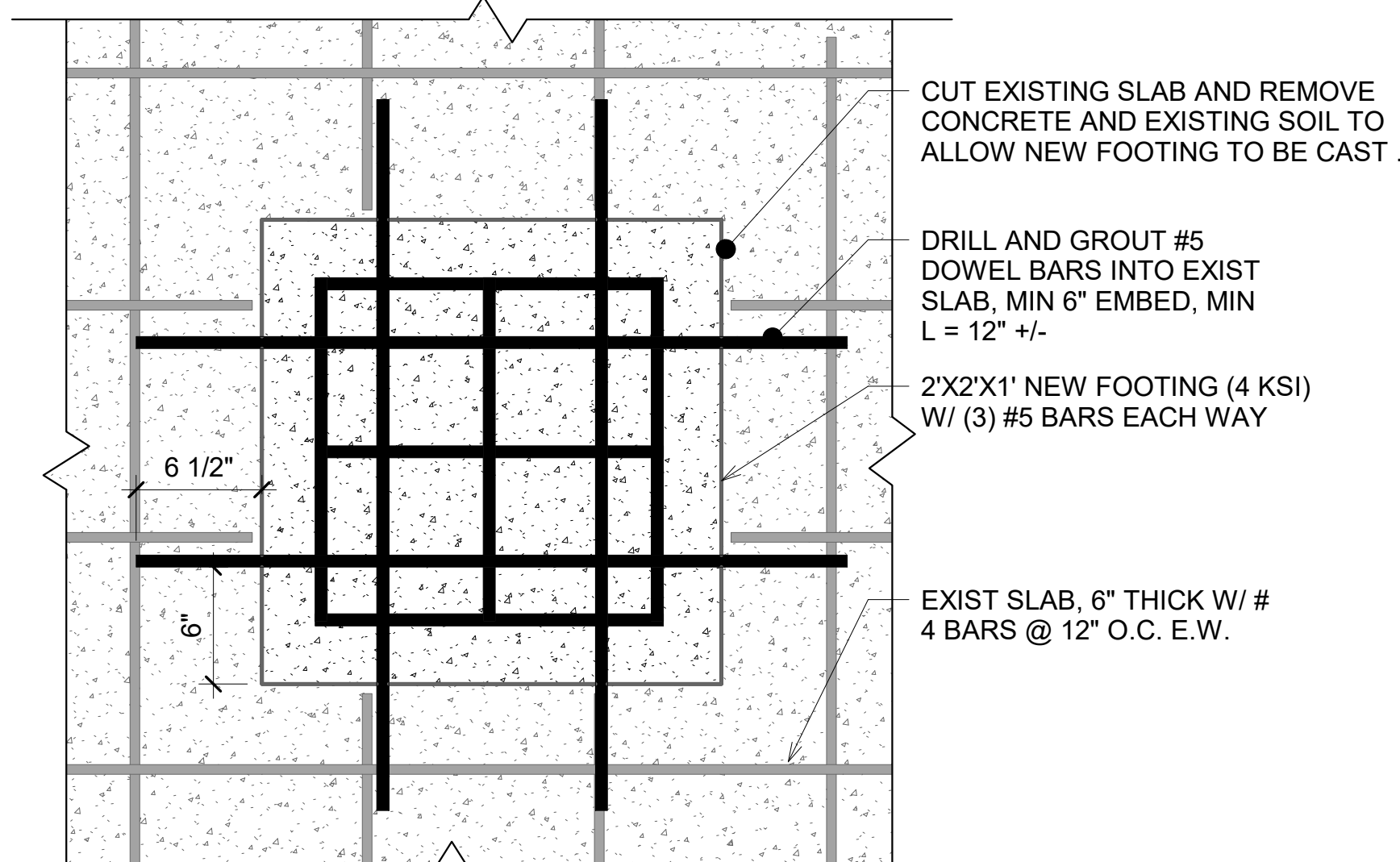
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

1" = 0'

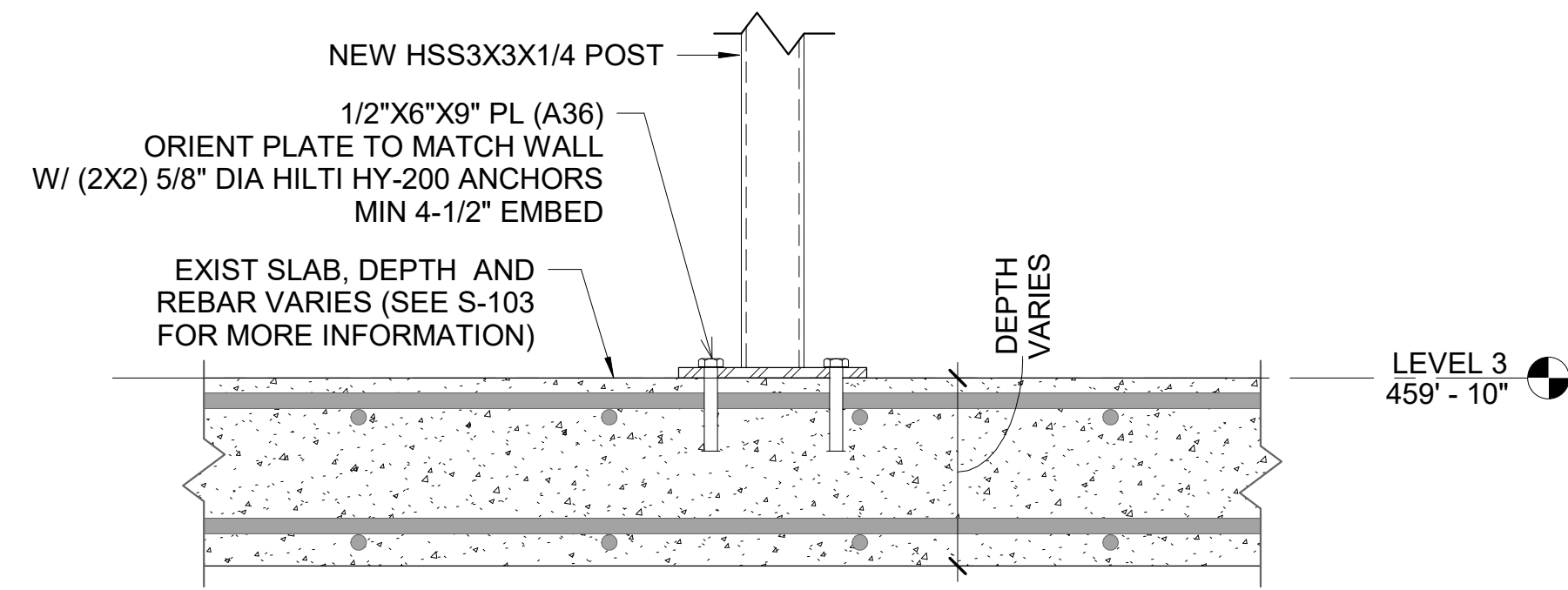
BAR IS ONE INCH ON ORIGINAL DRAWING



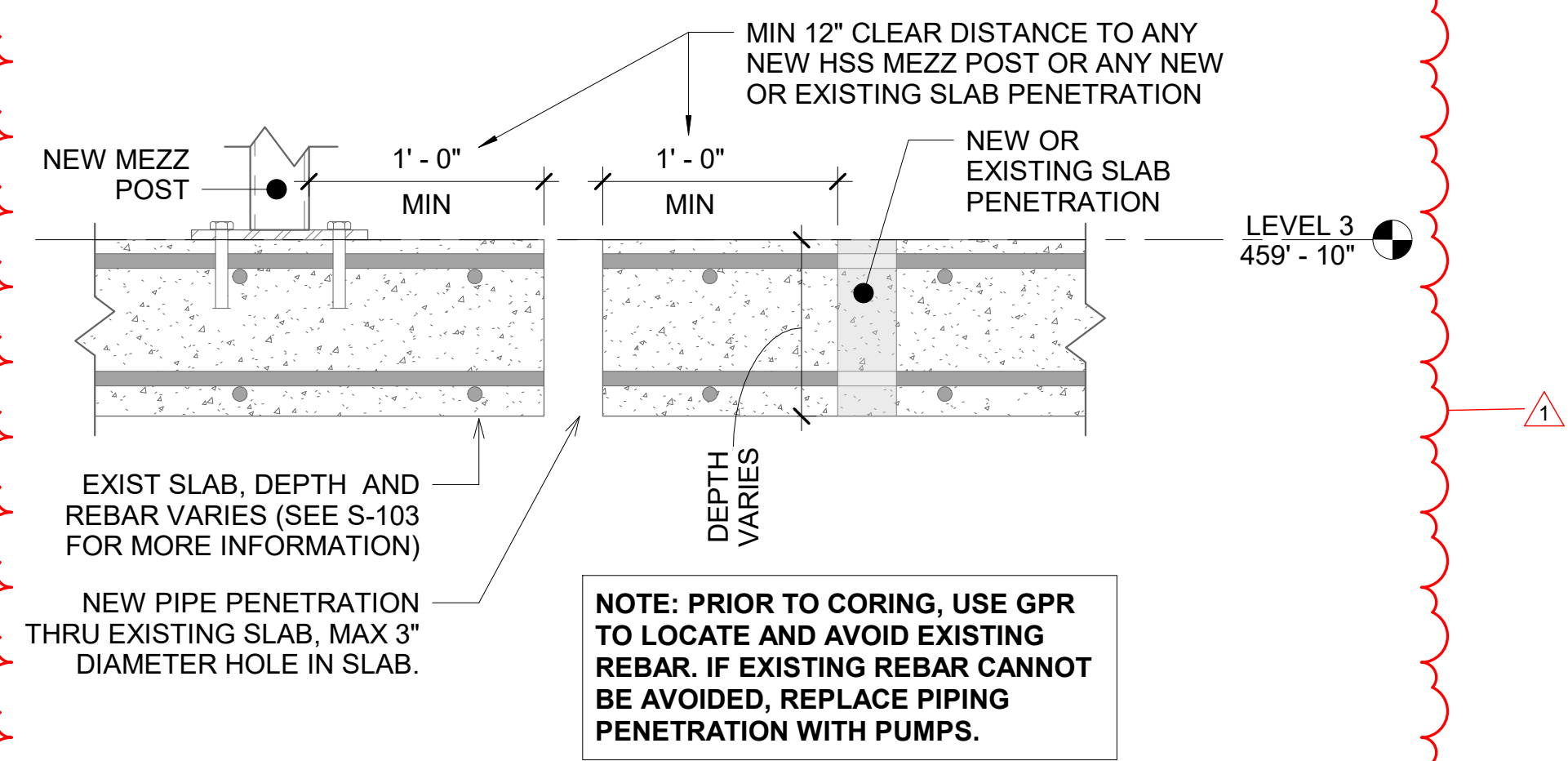
1 NEW FOOTING SECTION
1 1/2" = 1'-0"



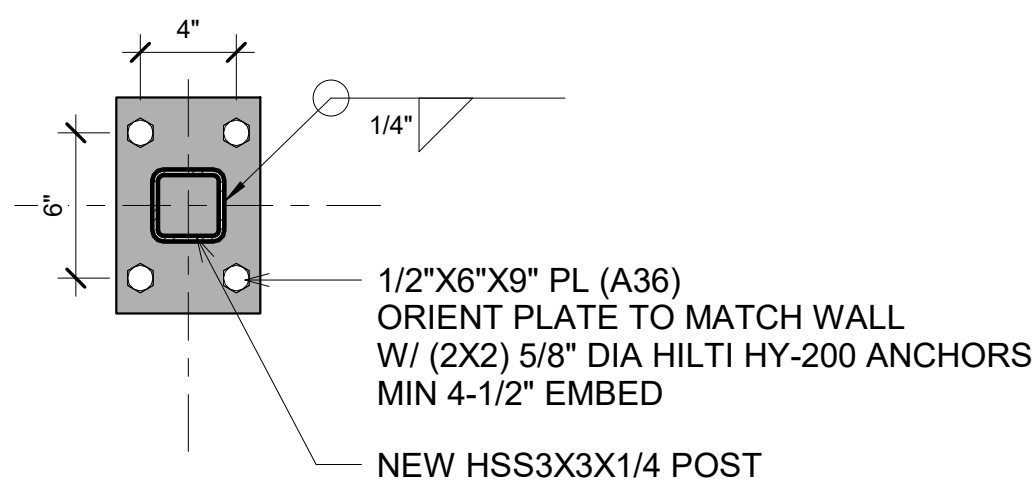
2 FOOTING PLAN VIEW
1 1/2" = 1'-0"



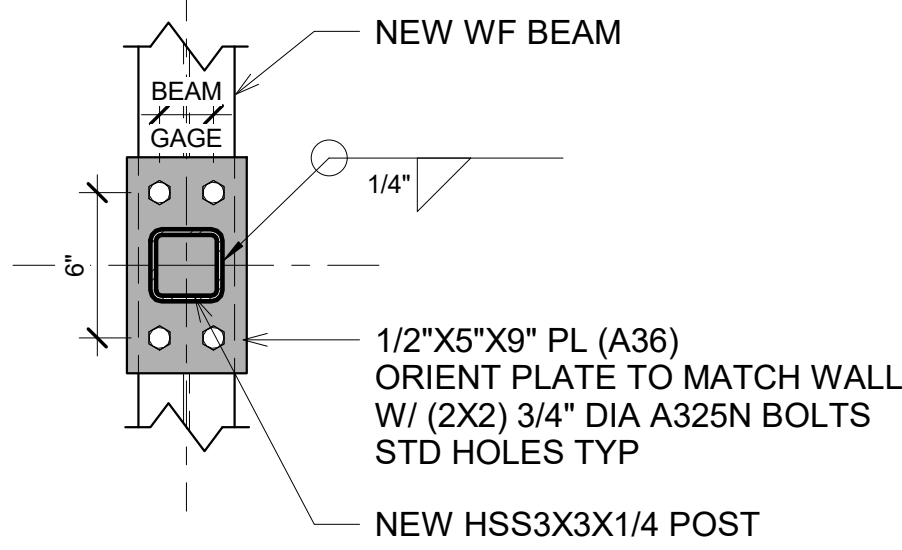
3 COL ON FLAT SLAB
1 1/2" = 1'-0"



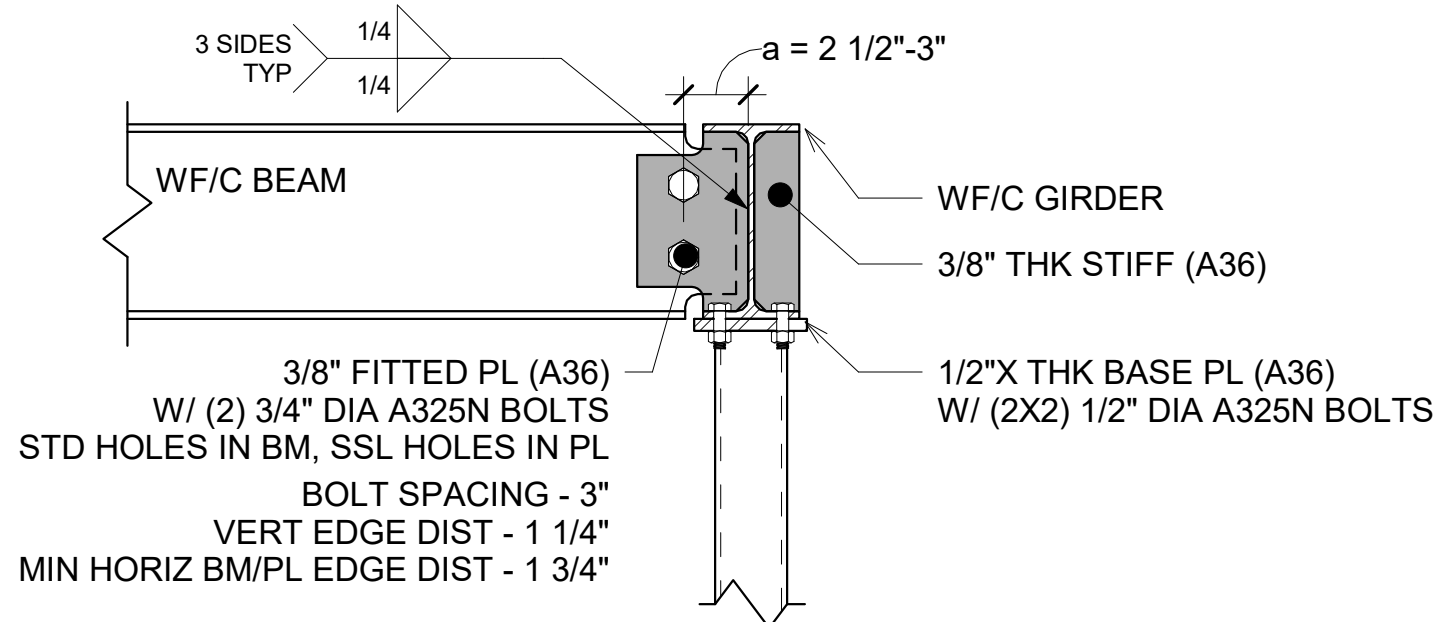
4 PENETRATION DETAIL AT 3RD FLOOR SLAB
1 1/2" = 1'-0"



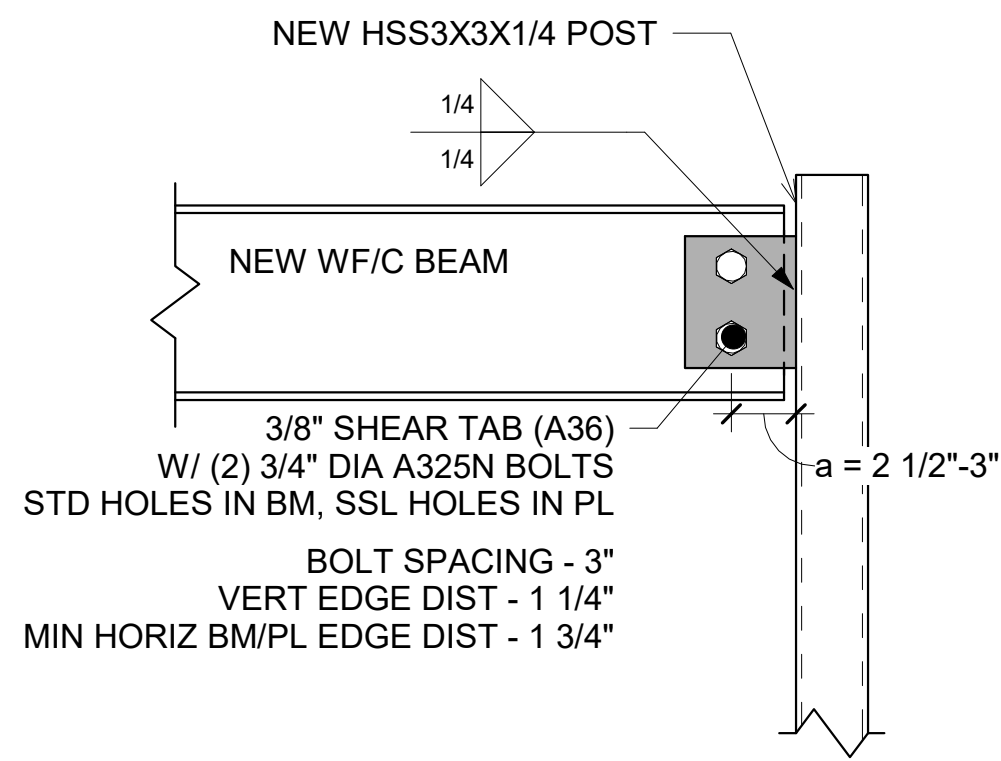
5 POST BASE PLATE
1 1/2" = 1'-0"



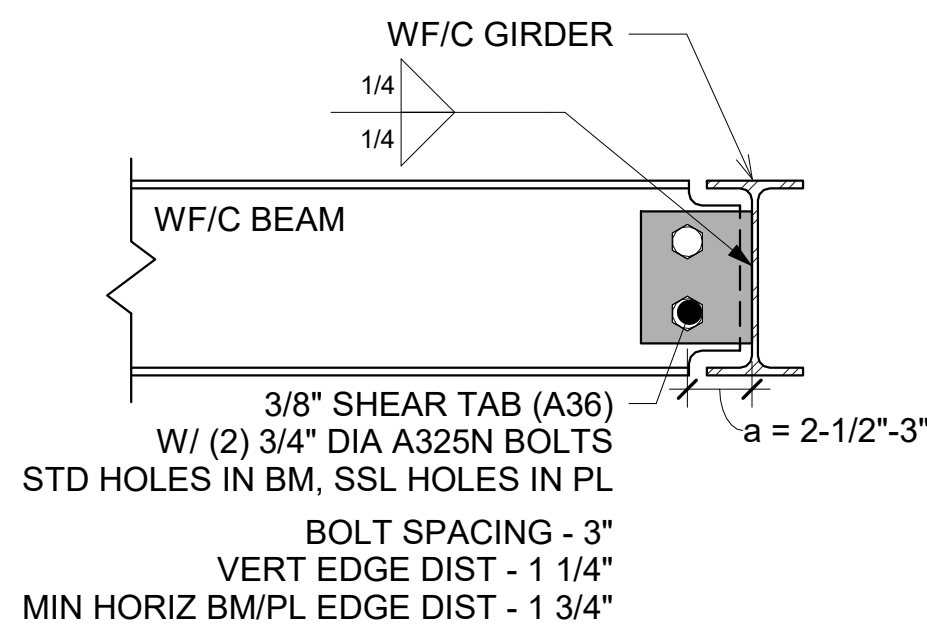
6 POST CAP PLATE (FROM BELOW)
1 1/2" = 1'-0"



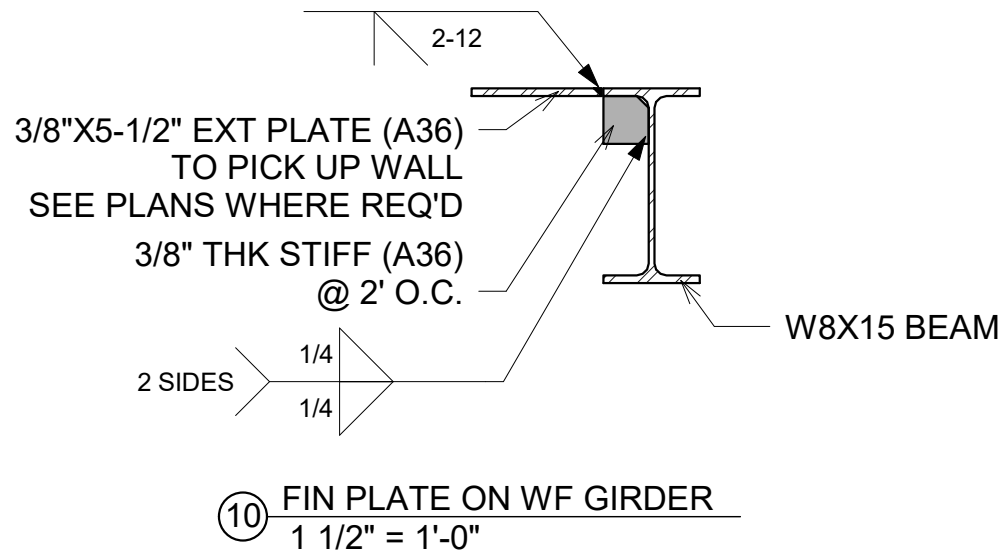
7 STEEL BM TO BM OVER POST CONNEX
1 1/2" = 1'-0"



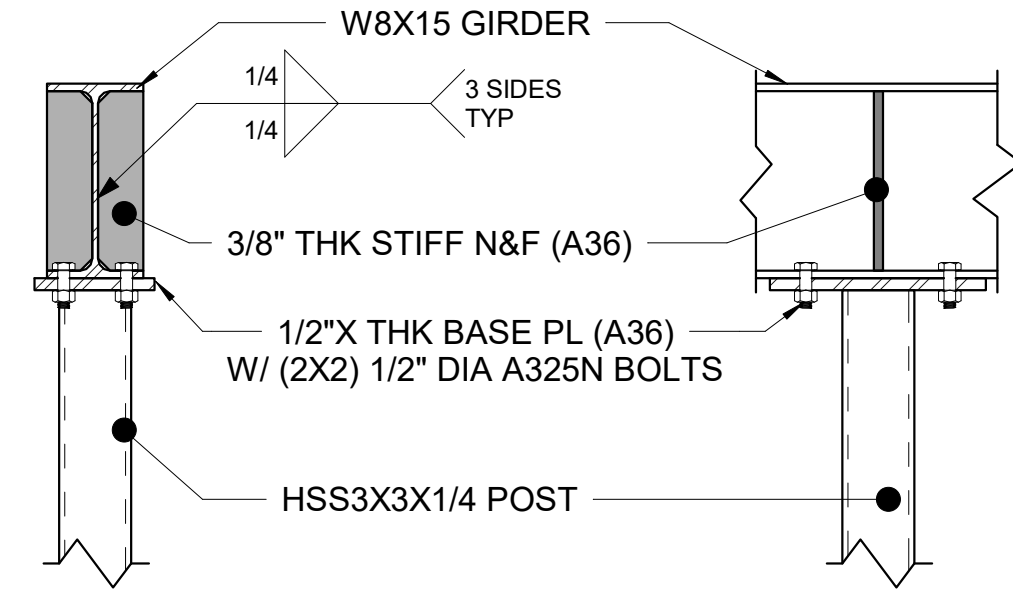
8 STEEL BEAM TO HSS COL CONNEX
1 1/2" = 1'-0"



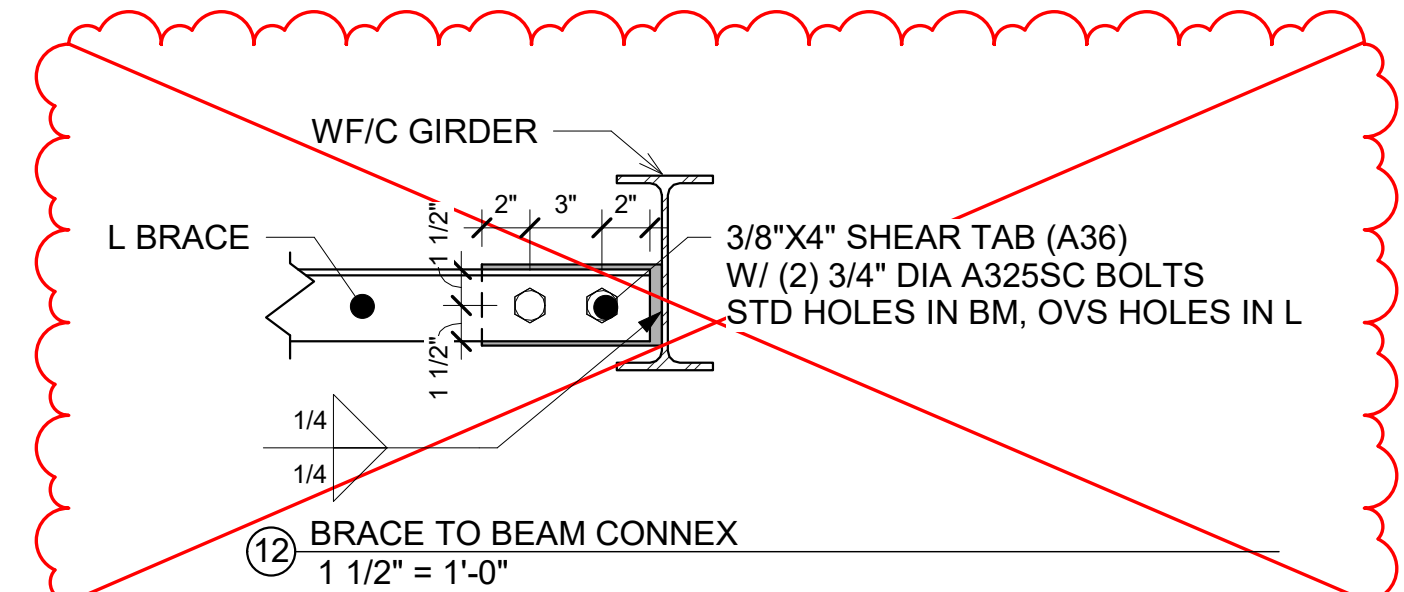
9 STEEL BEAM TO BEAM CONNEX
1 1/2" = 1'-0"



10 FIN PLATE ON WF GIRDER
1 1/2" = 1'-0"



11 STEEL BM OVER POST
1 1/2" = 1'-0"

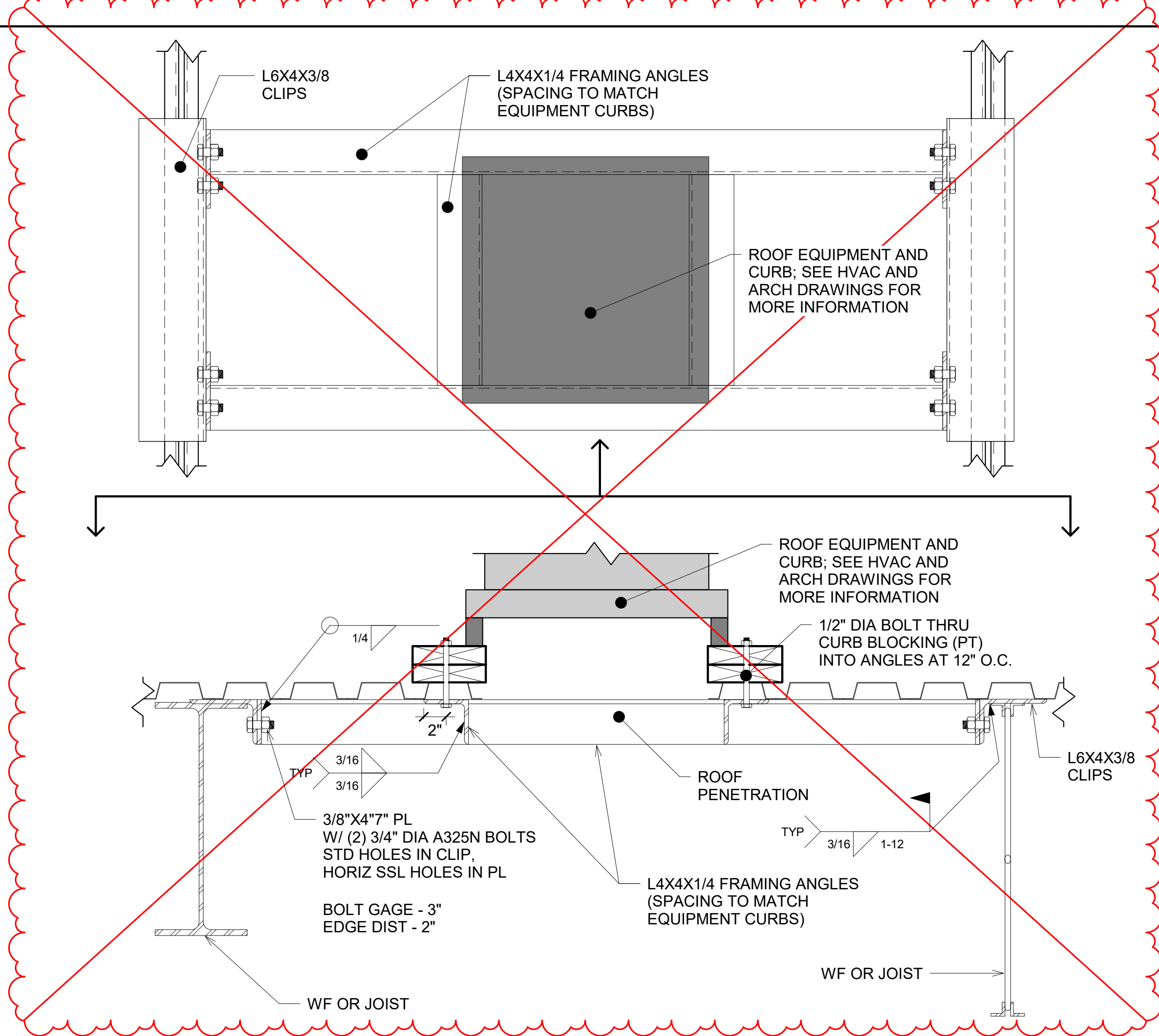


13 BRACE X CONNEX PLAN
1 1/2" = 1'-0"

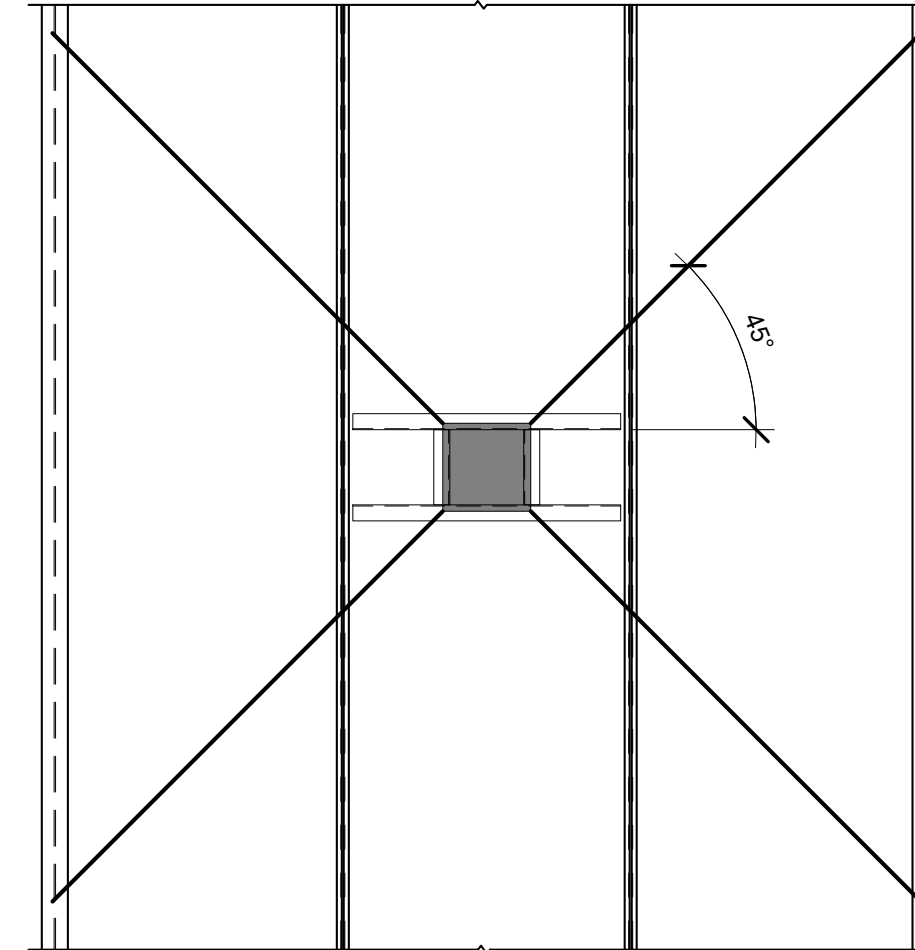
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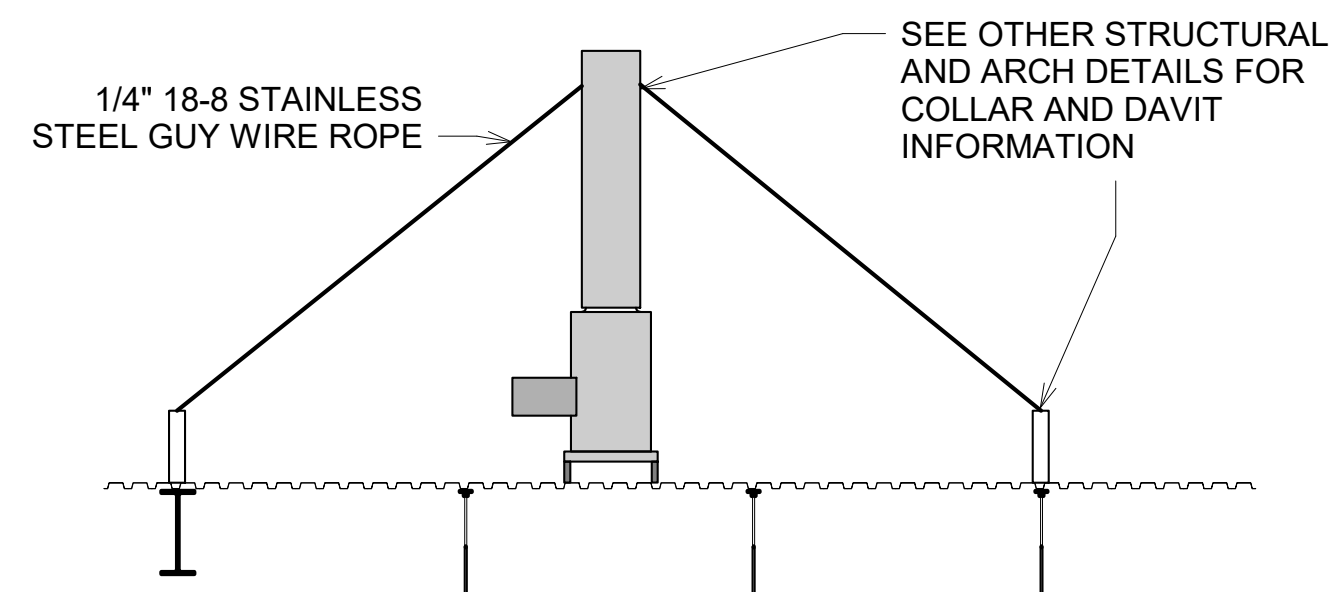
DSGN:	REV.	DATE	REVISION DESCRIPTION	DWG.	CHK.	APVD.
KC	A	04-19-21	ISSUED FOR 90% CLIENT REVIEW	KC	TT	
DR:	KC	0	06-10-21	ISSUED FOR CONSTRUCTION	KC	NM
CHK:	NM	1	01-21-22	ISSUED FOR BULLETIN 2	KC	NM
APVD:						
KC						



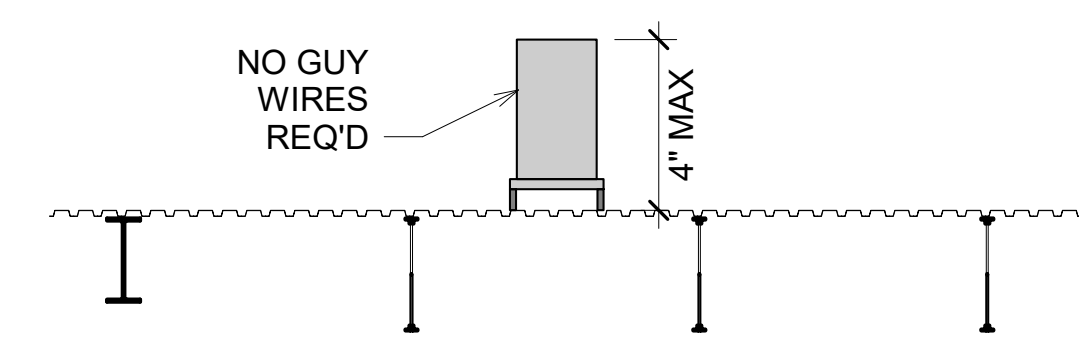
SEE SK-5 FOR ADD'L INFORMATION



GUY WIRE PLAN LAYOUT

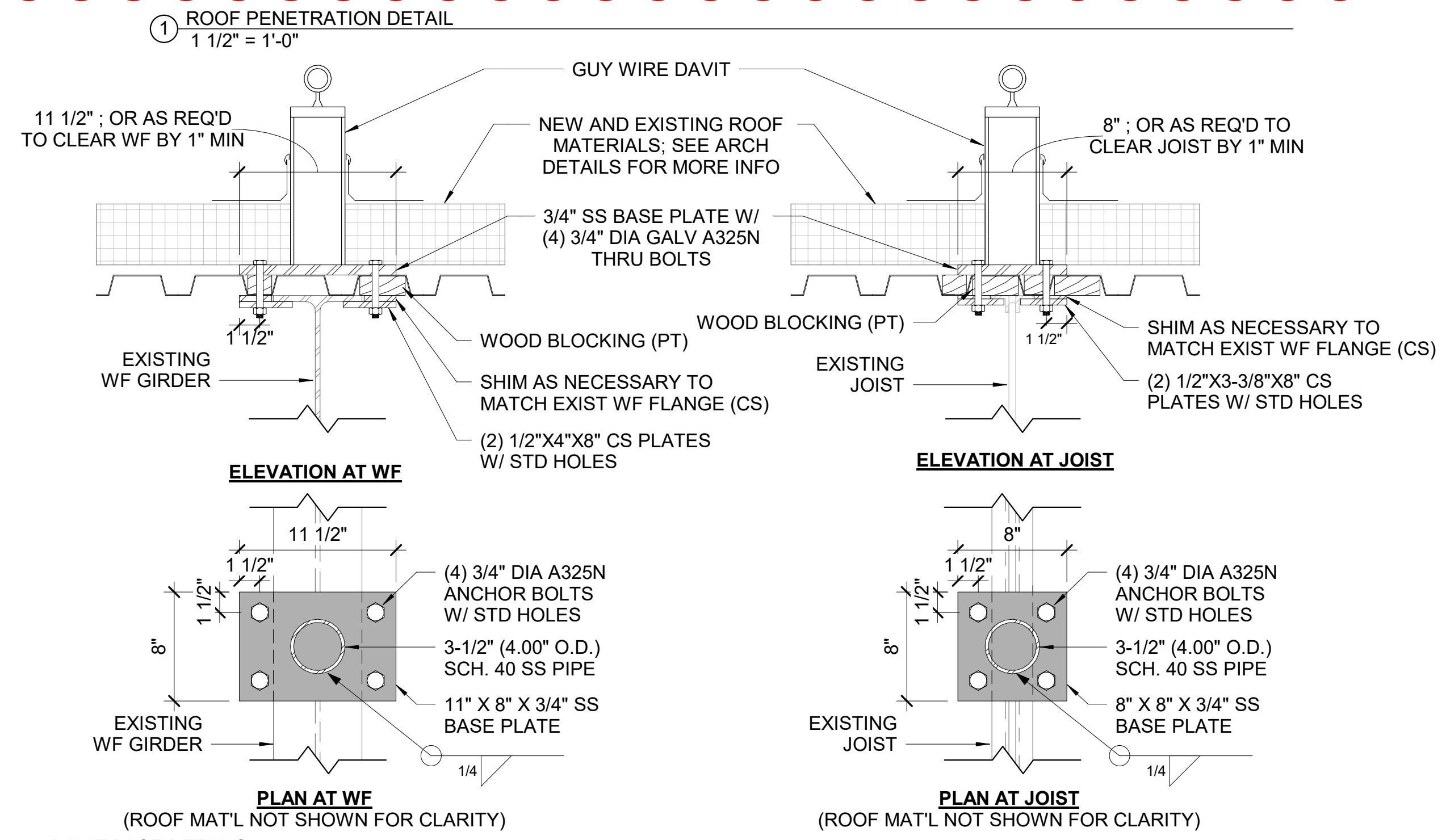


TALL EQUIPMENT GUY WIRE ELEVATION



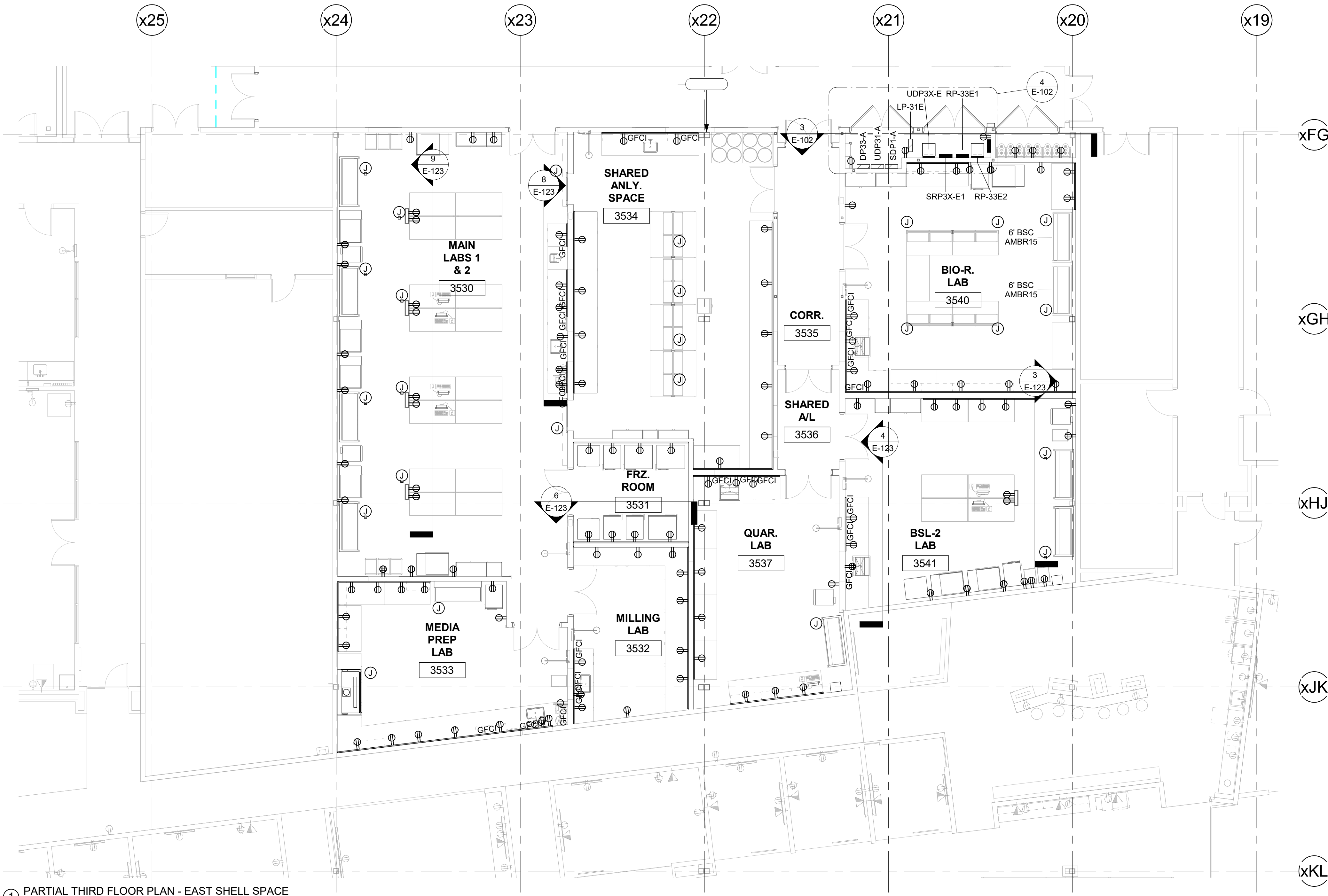
LOW EQUIPMENT ELEVATION

EQUIPMENT ROOF SUPPORT LAYOUT
1/4" = 1'-0"

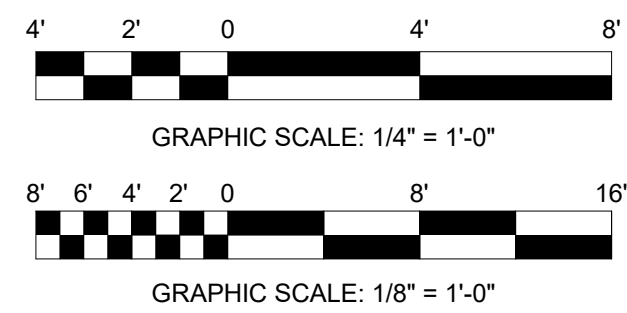


DAVIT BASE DETAILS
1 1/2" = 1'-0"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
0 1" 0'
BAR IS ONE INCH ON ORIGINAL DRAWING

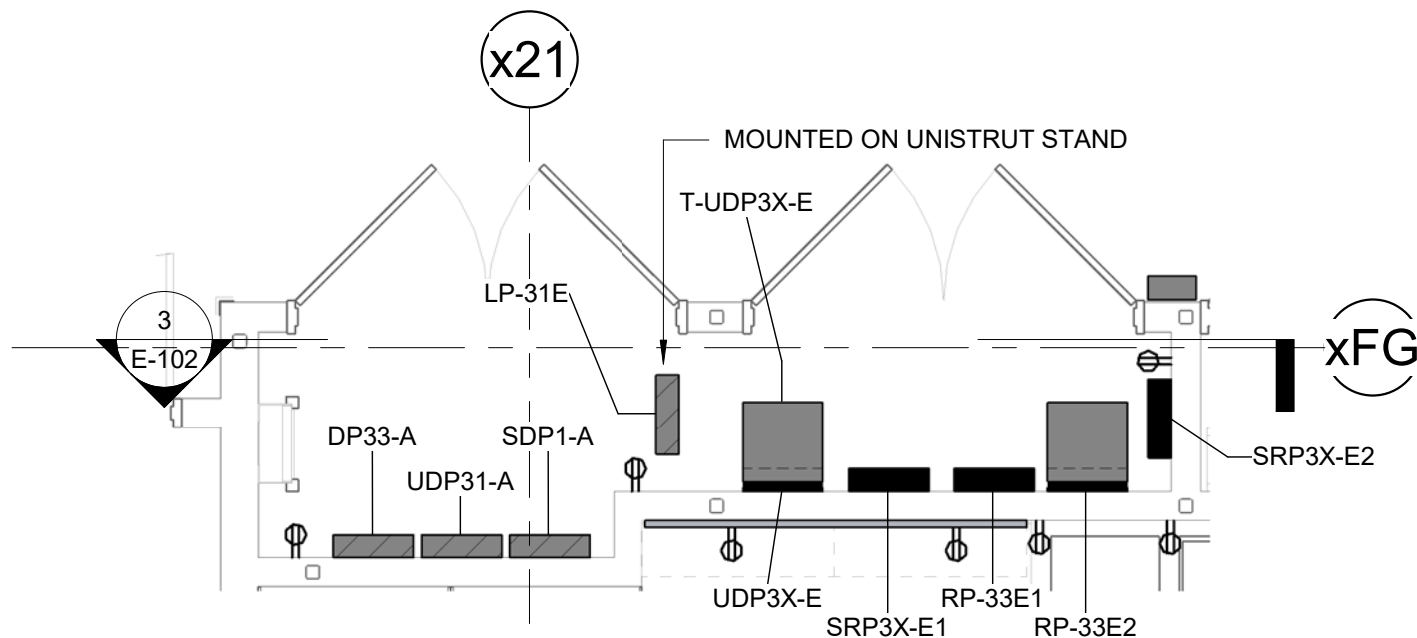


1 PARTIAL THIRD FLOOR PLAN - EAST SHELL SPACE
1/8" = 1'-0"

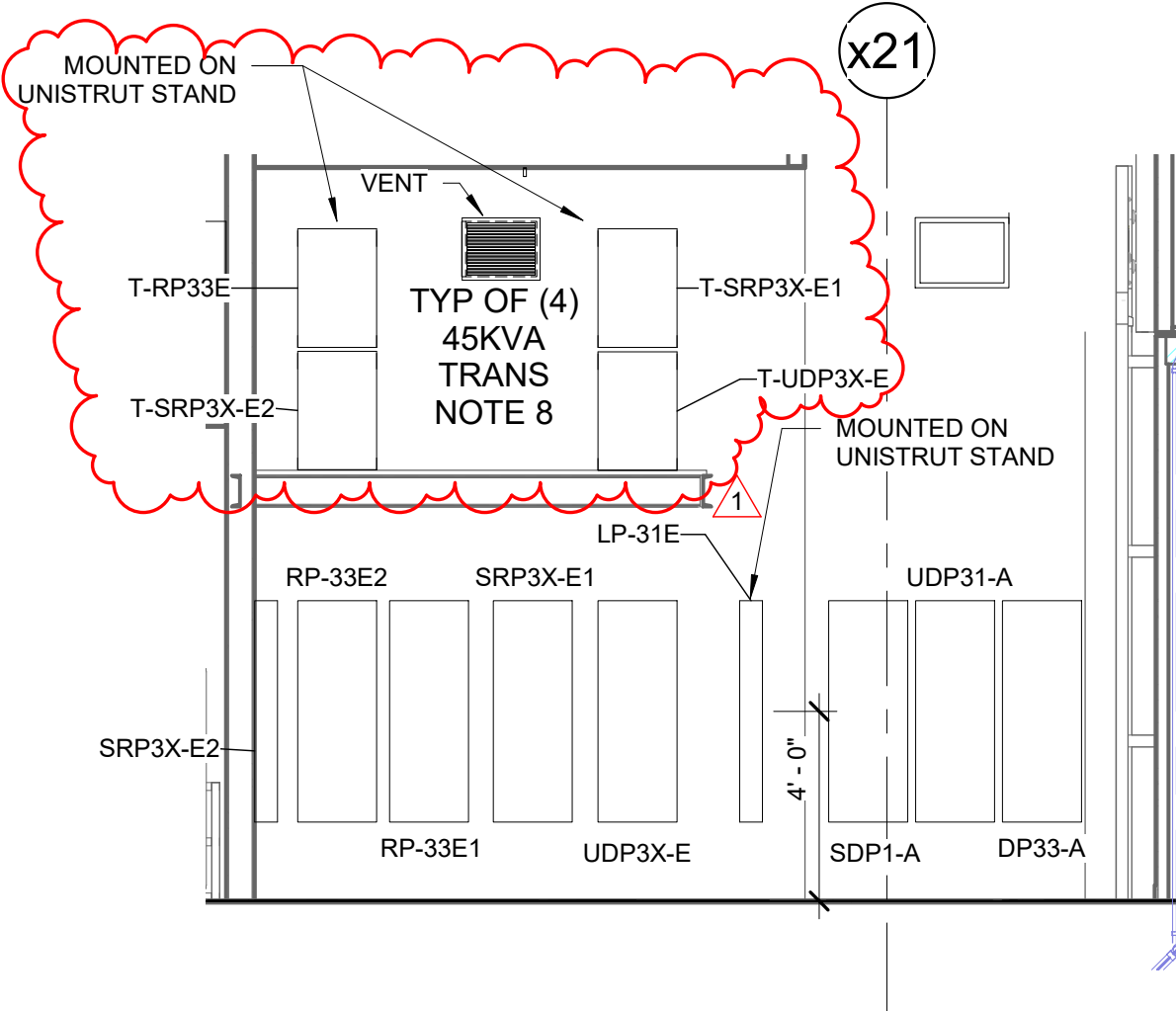


PROJECT NOTES

- ELECTRICAL CONTRACTOR (EC) TO FURNISH AND INSTALL FOUR SQUARE D NF 250 AMP 42 SPACE 3P 4W PANEL BOARDS
- EC TO FURNISH AND INSTALL FOUR SQUARE D NQ 225 AMP 42 SPACE 3P 4W PANEL BOARDS.
- EC TO FURNISH AND INSTALL FOUR SQUARE D 480 VAC TO 208/120Y 45KVA TRANSFORMERS. ALL TRANSFORMERS ARE TO BE WALL MOUNTED ON PROVIDED STEEL FRAME.
- EC TO FURNISH AND INSTALL 120 VAC 20 AMP CIRCUIT TO A JUNCTION BOX ABOVE BSC. PROVIDE CONNECTION FROM JUNCTION TO BSC USING MANUFACTURE SINGLE POINT CONNECTION. SEE MANUFACTURE DOCUMENTATION FOR CONNECTION POINT.
- EC TO FURNISH AND INSTALL 120 VAC CIRCUITS AS SHOWN TO OPTIMA BENCH SYSTEM. PROVIDE JUNCTION FOR CIRCUITS ABOVE BENCH SYSTEM AND RUN CIRCUITS DOWN INTO SYSTEM USING MANUFACTURE PROVIDED RACEWAYS. PROVIDE OUTLETS AS NEEDED.
- SEE ONE LINES AND PANEL SCHEDULES FOR MORE INFORMATION.
- CIRCUITS IN THIS AREA FOR LAB EQUIPMENT ARE SHOWN ON ENLARGED EAST PLAN.
- EC TO STACK TRANSFORMERS USING UNISTRUT ON PROVIDED STEEL FRAME.



4 L.3 FLR POWER PLAN EAST - Callout 1
1/4" = 1'-0"



3 EAST ELEC. RM SECTION VIEW
1/4" = 1'-0"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

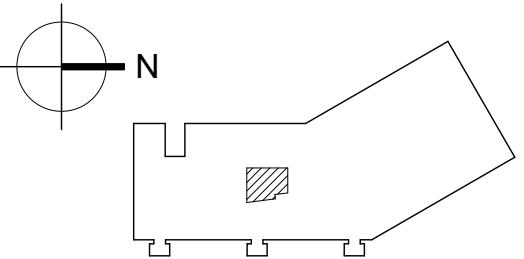
BAR IS ONE INCH ON ORIGINAL DRAWING

GENERAL NOTE:

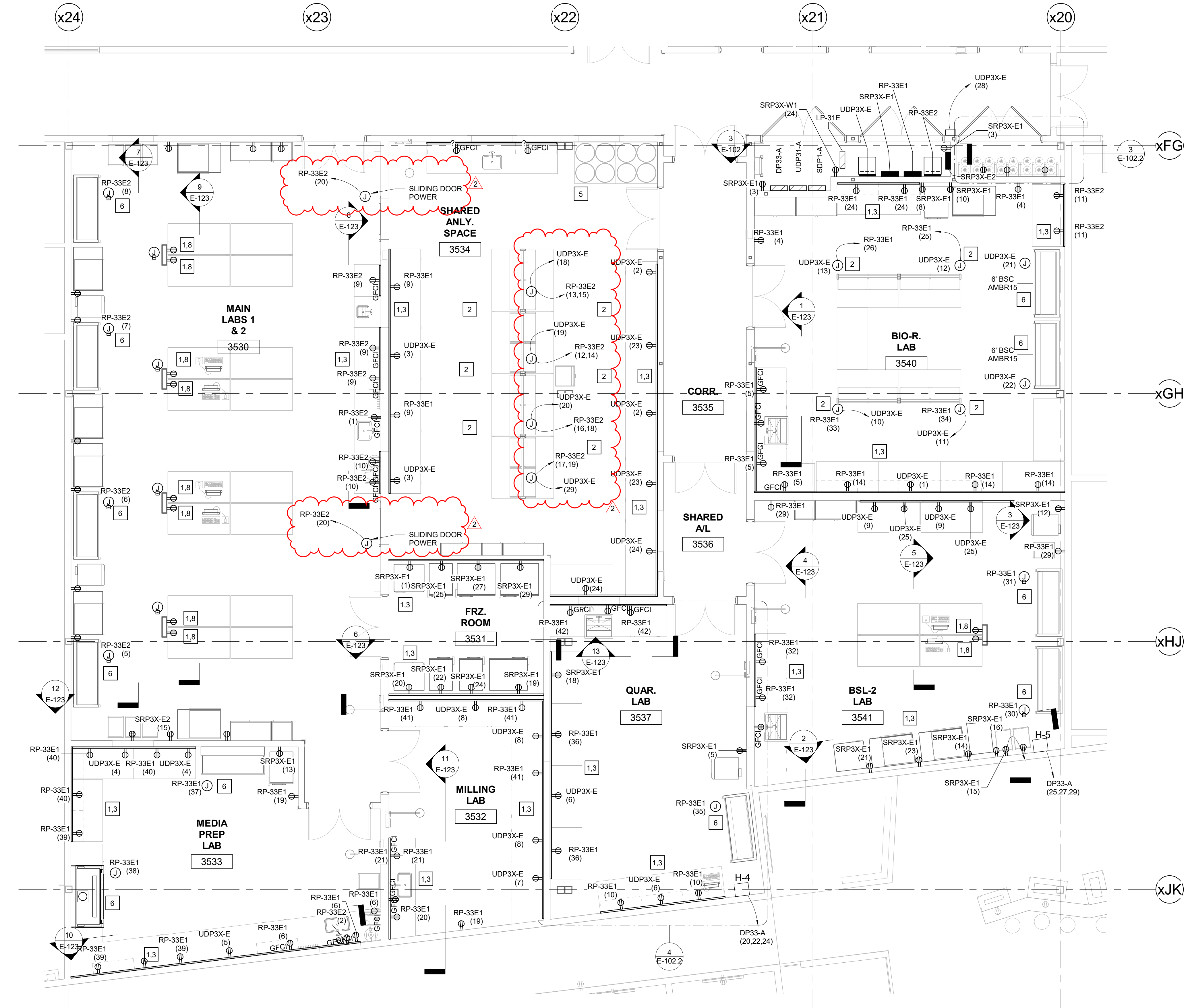
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DSGN:	S.FITZGERALD
DR:	S.FITZGERALD
CHK:	M.POWERS
APVD:	M.POWERS

REV.	DATE	REVISION DESCRIPTION	DWG.	CHK.	APVD.
A	03/22/21	ISSUED FOR 60% CLIENT REVIEW	SPF	MAP	
B	04-19-21	ISSUED FOR 90% CLIENT REVIEW	SPF	MAP	
0	06-10-21	ISSUED FOR CONSTRUCTION	SPF	MAP	MAP
1	01/21/22	ISSUED FOR BULLETIN 2	SPF	MAP	MAP



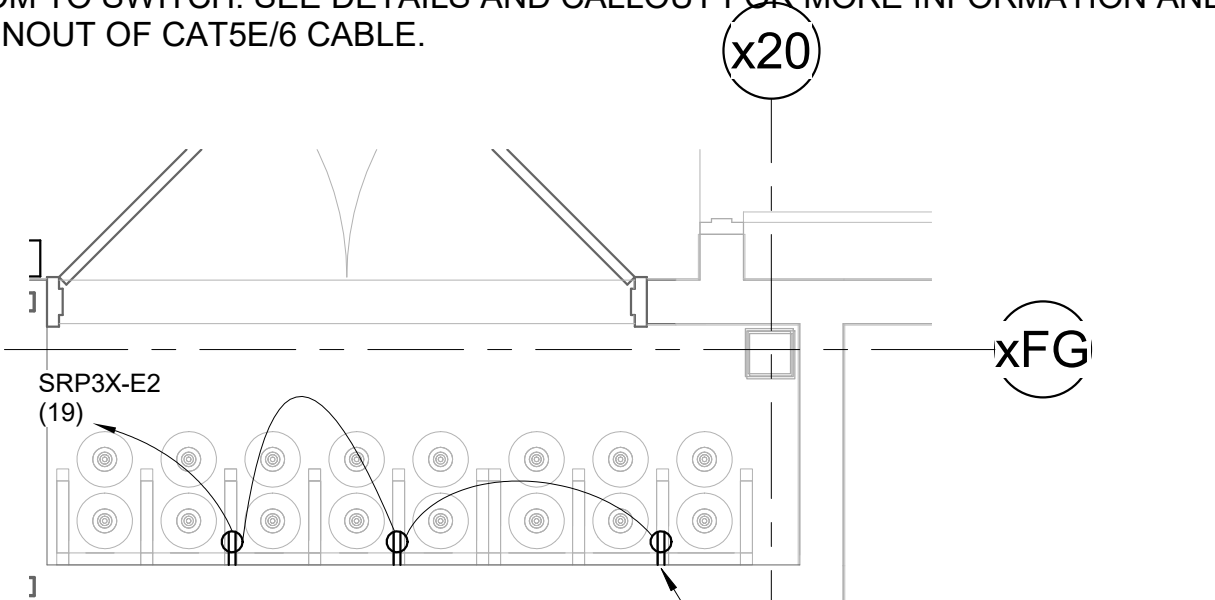
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



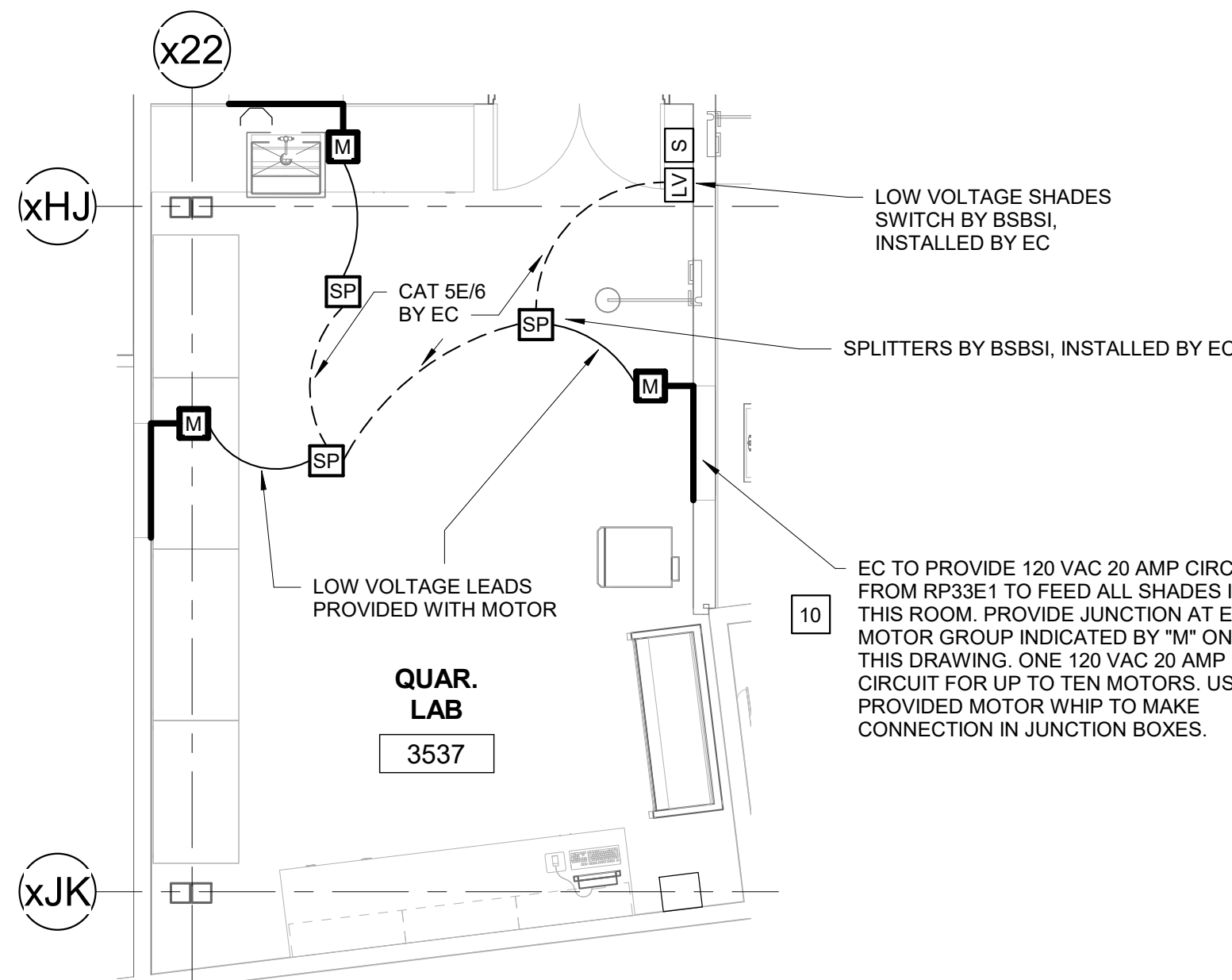
1 PARTIAL THIRD FLOOR PLAN - EAST SHELL SPACE
3/16" = 1'-0"

PROJECT NOTES

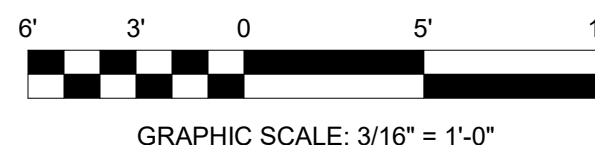
- ELECTRICAL CONTRACTOR (EC) TO FURNISH AND INSTALL 120 VAC CIRCUITS HAS SHOWN ON PLAN.
- EC TO PROVIDE JUNCTION BOXES ABOVE CEILING FOR 120 VAC CIRCUITS FOR OPTIMA BENCHES. THE OPTIMA BENCHES WILL HAVE TWO POWER 8FT WHIPS TO EXTEND ABOVE THE CEILING. EC TO INTERCEPT WHIPS AND MAKE CONNECTIONS IN JUNCTION BOXES. ONE WHIP WILL BE ONE 2 POLE CIRCUITS NORMAL POWER AND THE OTHER WILL BE ONE UPS (1P) CIRCUIT PER BENCH SECTION. THE BENCHES WILL BE PREWIRED FOR POWER AND DATA. THE UPS POWER WHIP SHOULD BE LABELED FROM MANUFACTURER. TOTAL OF FOUR 2P NORMAL CIRCUITS AND THREE 1P UPS CIRCUITS.
- EC TO FURNISH AND INSTALL 4000 SERIES WIRE MOLD TWO CHANNEL. ONE FOR POWER AND THE OTHER FOR DATA AND BMS CONNECTIONS. FOR 120 VAC CIRCUIT PROVIDE AND INSTALL DUPLEX OUTLETS. SEE DATA PLAN FOR DATA JACK LOCATIONS.
- EC TO PROVIDE HARDWIRED CONNECTION FOR 120 VAC CIRCUITS LAB EQUIPMENT.
- EC TO FURNISH AND INSTALL GROUND BAR FOR STATIC WITH CORD REEL.
- EC TO FURNISH AND INSTALL JUNCTION BOX FOR 120 VAC POWER TO HOODS. JUNCTION SHOWN NOT ABOVE HOOD FOR CLARITY. HARDWIRE 120 VAC TO HOOD USING SINGLE POINT CONNECTION. PROVIDE WIRE AND CONDUIT, AND SUPPORTS TO COMPLETE INSTALLATION.
- ALL CIRCUITS TO BE 20 AMP 120 VAC AND 2#12,1#12G, 3/4" UNLESS OTHERWISE STATED.
- PROVIDE AND INSTALL 4(X) 120 VAC ONE CIRCUIT 4-5 FT POWER STRIPS MOUNTED UNDER LAB BENCHES. ONE FOR NORMAL POWER AND ANOTHER FOR UPS POWER WITH AT LEAST 4-6 OUTLETS FOR EACH SIDE OF THE LAB BENCH.
- FOR CIRCUIT NOT SHOWN SEE SECTION VIEWS ON E-123 FOR CIRCUITS NUMBERS AND LOCATIONS.
- EC TO PROVIDE AND INSTALL 120 VAC 20 CIRCUIT FOR POWERED SHADES AND CAT 5E/6 FOR LOW VOLTAGE COM TO SWITCH. SEE DETAILS AND CALLOUT FOR MORE INFORMATION AND DETAIL 4 ON E-101 FOR PINOUT OF CAT5E/6 CABLE.



3 POWER PART PLAN - EAST GAS CLOSET
3/8" = 1'-0"



4 ES L.3 FLR POWER PLAN EAST SOUTH - Callout 2
3/16" = 1'-0"



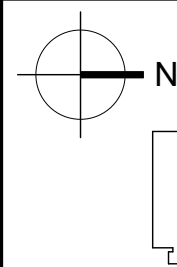
GRAPHIC SCALE: 3/16" = 1'-0"

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DR: S.FITZGERALD
CHK: M.POWERS
APVD: M.POWERS

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A	04-19-21	ISSUED FOR 90% CLIENT REVIEW	SPF	MAP	
0	06-10-21	ISSUED FOR CONSTRUCTION	SPF	MAP	
1	10-22-21	ISSUED FOR BULLETIN 1	SPF	MAP	
2	01/21/22	ISSUED FOR BULLETIN 2	SPF	MAP	



CLD & CCM LABS
ELECTRICAL
ENLARGED EAST SHELL SPACE
120 VAC POWER LAYOUT

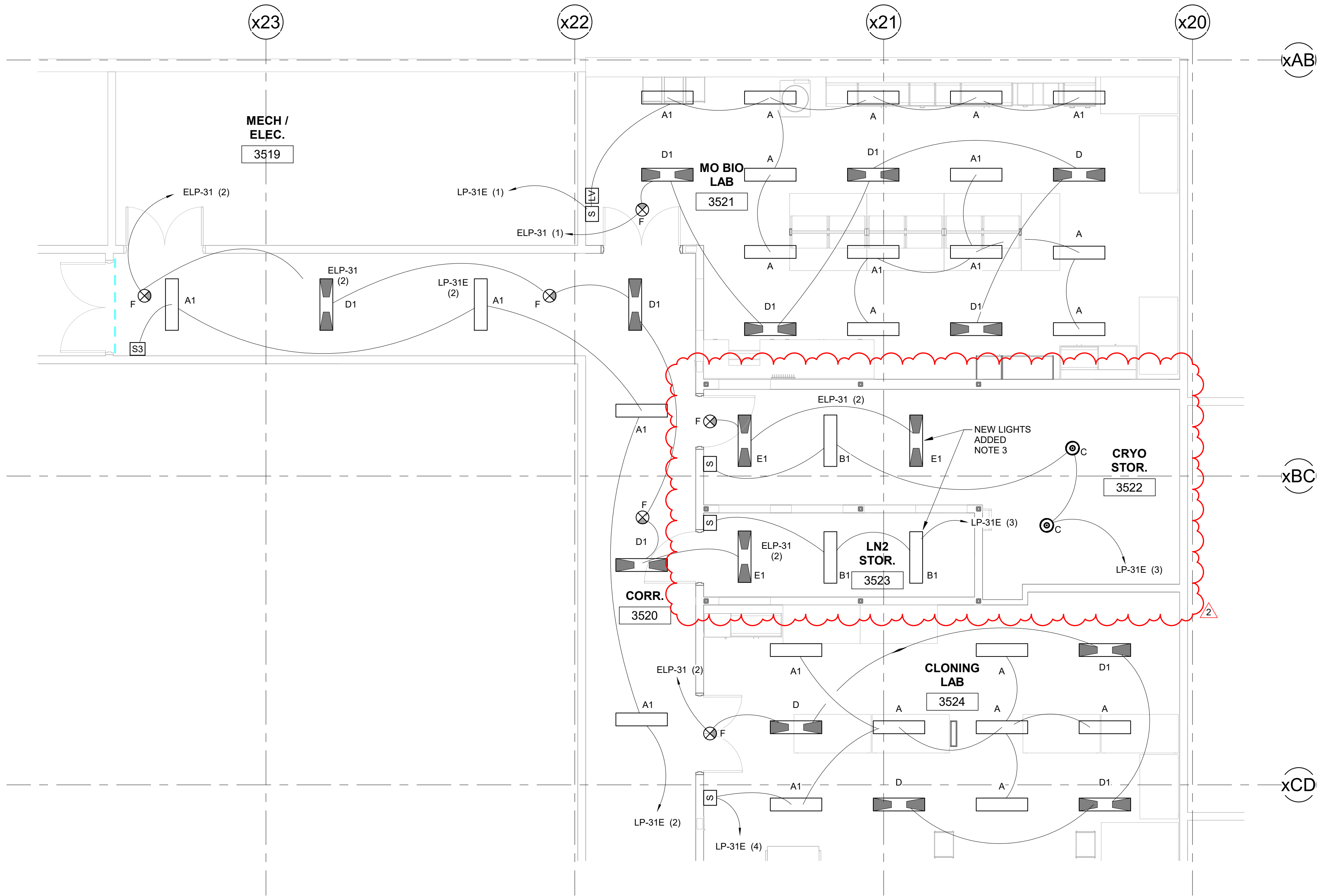
PROJ. NO: 20021A CAD FILE:

ISSUE DATE: 04/13/21

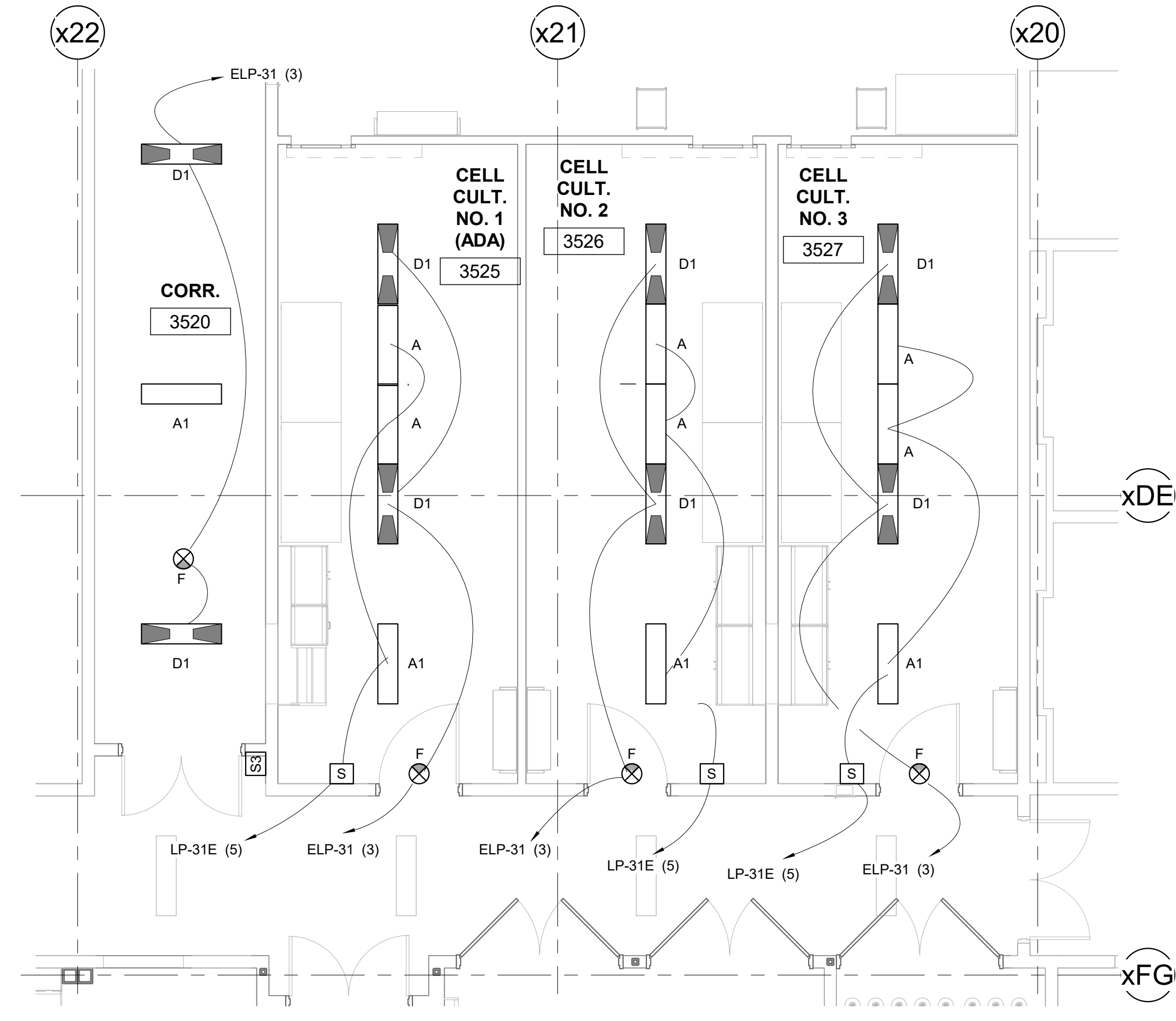
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SHEET NUMBER

E-102.2

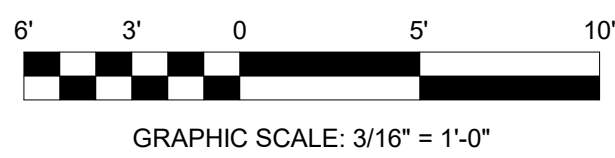


① PARTIAL THIRD FLOOR PLAN - WEST SHELL SPACE
3/16" = 1'-0"



③ PARTIAL THIRD FLOOR PLAN - WEST SHELL SPACE
3/16" = 1'-0"

LIGHT FIXTURE SCHEDULE COMPLETE WEST								
TYPE MARK	MANUFACTURER	MODEL	DESCRIPTION	LAMP	VOLTAGE	WATTAGE	MOUNTING	QTY
A	LITETRONICS	PT13520	1x4 LED LIGHT PANEL ADJUSTABLE LIGHT OUTPUT	LED	120-277V	20W	T-BAR GRID	19
A1	LITETRONICS	PT13530	1x4 LED LIGHT PANEL ADJUSTABLE LIGHT OUTPUT	LED	120-277V	30W	T-BAR GRID	15
B1	LITETRONICS	PT13530 W/ FPAM221	1x4 LED LIGHT PANEL ADJUSTABLE LIGHT OUTPUT, WITH DRYWALL MOUNT KIT	LED	120-277V	30W	FLANGE	3
C	LITHONIA	JEBL12000LM PFL MVOLT 40K 80CRI, WITH JEBLSM1M6	LED HIGH BAY FIXTURE JEBL, WITH SURFACE MOUNT KIT	LED	120-277V	92.4	SURFACE	2
D	LITETRONICS	PT13520 W/ EB23UQB	1x4 LED LIGHT PANEL ADJUSTABLE LIGHT OUTPUT/ EB BACKUP	LED	120-277V	20W	T-BAR GRID	3
D1	LITETRONICS	PT13530 W/ EB23UQB	1x4 LED LIGHT PANEL ADJUSTABLE LIGHT OUTPUT/ EB BACKUP	LED	120-277V	30W	T-BAR GRID	17
E1	LITETRONICS	PT13530 W/ FPAM221 AND EB23UQB	1x4 LED LIGHT PANEL ADJUSTABLE LIGHT OUTPUT, WITH DRYWALL MOUNT KIT & EB BACKUP	LED	120-277V	30W	FLANGE	3
F	LITHONIA	LQM-P-W-3-R-120/277-EL N OR EQUAL	LED EXIT LIGHT W/ BATTERY BACK-UP	LED	120-277V	1	SURFACE	10



- PROJECT NOTES**
- ELECTRICAL CONTRACTOR (EC) TO FURNISH AND INSTALL LED LIGHT FIXTURES AS SHOWN ON PLAN. PROVIDE LIGHTING CIRCUITS AS SHOWN ON PLAN. SEE LIGHTING SCHEDULE FOR LIGHT FIXTURE PART NUMBERS SEE DRAWING SHEET.
 - LED LIGHT PANELS FIXTURES HAVE ADJUSTABLE LUMEN OUTPUT SETTINGS. PART NUMBER INDECATES SETTINGS.
 - LIGHTS WERE REPOSITIONED TO ALIGN WITH FRAMING. TWO ADDITIONAL LIGHTS WERE ADDED. ONE E-LIGHT (E1) AND ONE NORMAL LIGHT(B1).

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

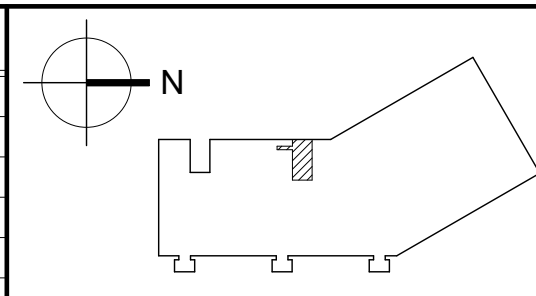
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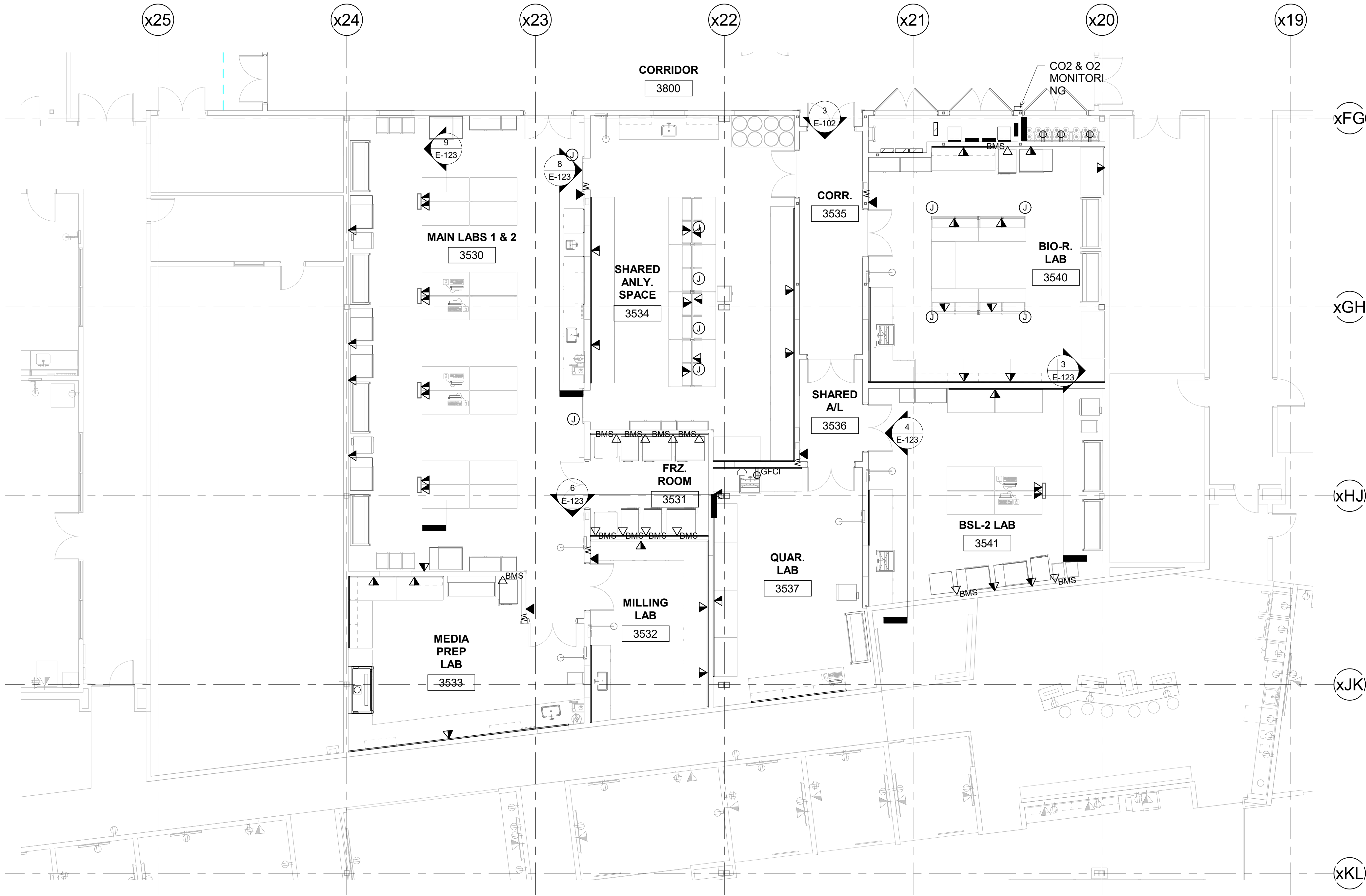
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DR:	S.FITZGERALD
CHK:	M.POWERS
APVD:	M.POWERS

REV.	DATE	REVISION DESCRIPTION
A	04-19-21	ISSUED FOR 90% CLIENT REVIEW
0	06-10-21	ISSUED FOR CONSTRUCTION
1	08-20-21	REVISED AS NOTED
2	01/21/22	ISSUED FOR BULLETIN 2

DWG.	CHK.	APVD.
SPF	MAP	
SPF	MAP	MAP
SPF	MAP	MAP
SPF	MAP	MAP

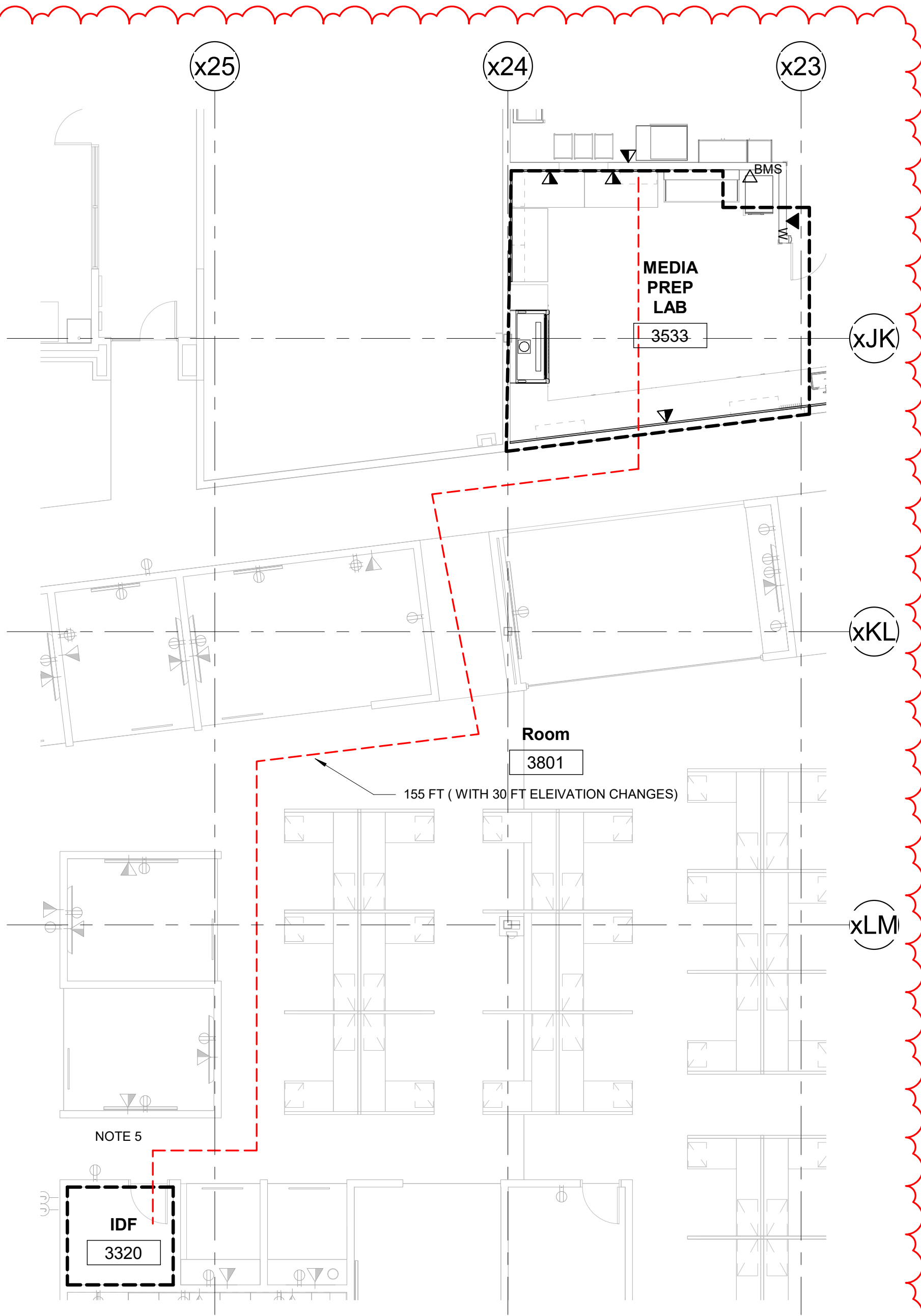
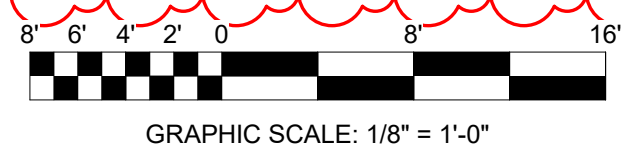




① PARTIAL THIRD FLOOR PLAN - EAST SHELL SPACE
1/8" = 1'-0"

PROJECT NOTES

- ELECTRICAL CONTRACTOR (EC) TO FURNISH AND INSTALL BMS MONITORING POINTS AS SHOWN IN LAB TO MONITOR LAB EQUIPMENT. RUN WIRING BACK TO NEW BMS PANEL IN 3502 SEE DRAWING E107 FOR PANEL LOCATION.
- EC TO FURNISH AND INSTALL DATA DROPS FROM LABS TO ROOM ELEC RM 3002.
- ALL DATA CABLE TO BE CAT6 AND ALL JACKS TO BE THREE PORTS, WITH TWO PORTS PUNCHED IN.
- EC TO FURNISH AND INSTALL NEW MSA TRIGAURD GAS MONITORING PANEL, TWO SENSOR PANEL , O2 AND CO2, MSA PART # A-TG5000-1-1-16-1-AF-1-2-0-0. MOUNT OUTSIDE GAS CLOSET. PROVIDE AND INSTALL ALL CONDUIT AND SUPPORTS NEEDED TO COMPLETE INSTALLATION.
- EC TO RUN THE MEDIA PREP LAB DATA DROP TO IDF 3320, FIELD VERIFY SPACE IN THE IDF ROOM BEFORE RUNNING CAT6.



② PARTIAL THIRD FLOOR PLAN - EAST SHELL SPACE
1/8" = 1'-0"

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HART DESIGN GROUP
800 SCENIC VIEW DRIVE | T: (401) 658-4600
CUMBERLAND, RI 02864 | F: (401) 658-4609
A MEMBER OF THE HART COMPANIES WWW.HARTCOMPANIES.COM

cytiva
100 RESULTS WAY
MARLBOROUGH, MA 01752

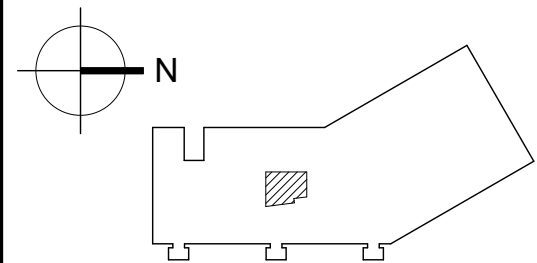
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0	06-10-21	ISSUED FOR CONSTRUCTION
1	01-21-22	ISSUED FOR BULLETIN 2

DWG.	CHK.	APVD.
SPF	MAP	
SPF	MAP	MAP
SPF	MAP	MAP



CLD & CCM LABS
ELECTRICAL
LEVEL 3 EAST PART PLAN
DATA AND SPECIAL SYSTEMS

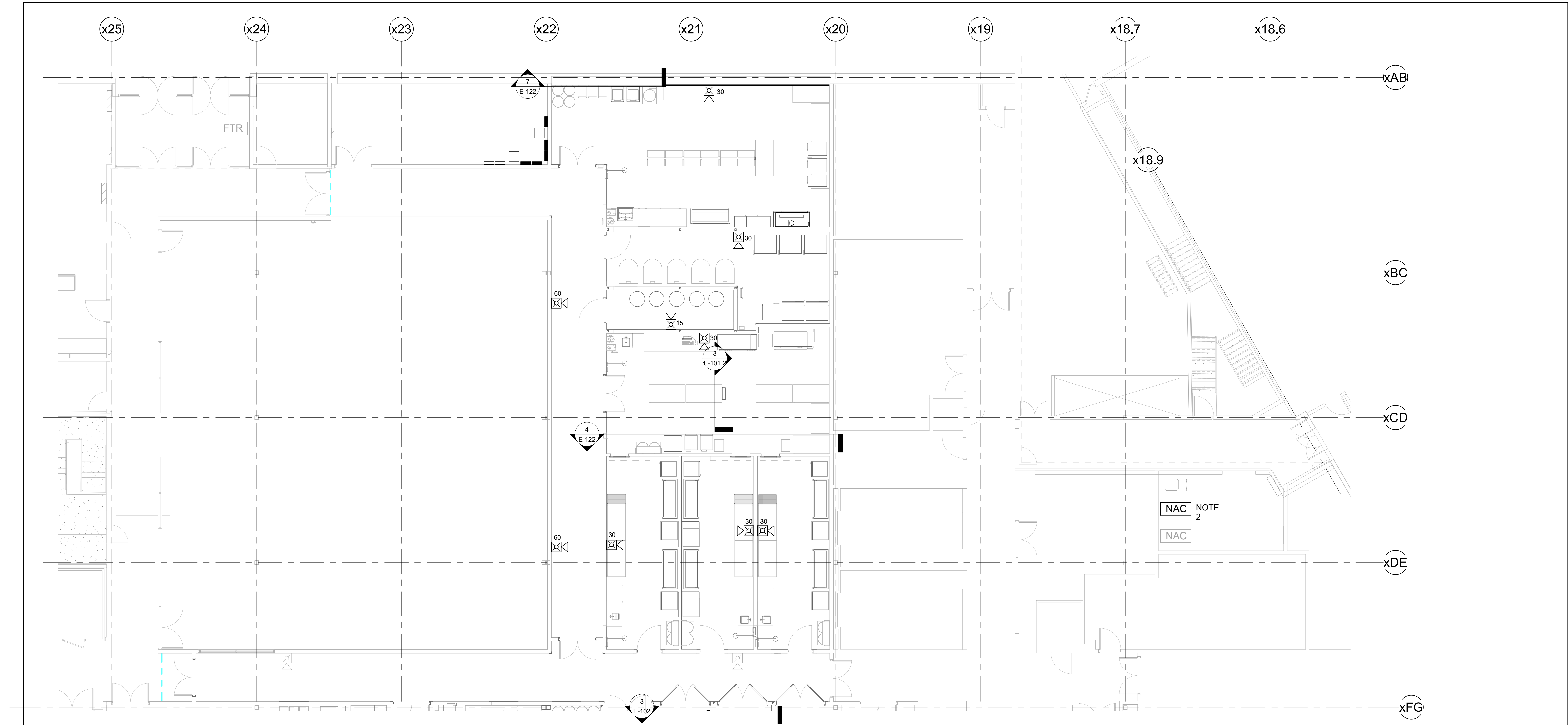
PROJ. NO: 20021A CAD FILE:

ISSUE DATE: 04/08/21

SCALE: As indicated

SHEET NUMBER

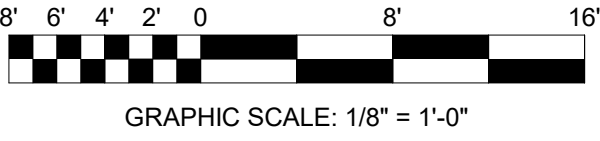
E-107



1 PARTIAL THIRD FLOOR PLAN - WEST SHELL SPACE
1/8" = 1'-0"


PROJECT NOTES

- ELECTRICAL CONTRACTOR (EC) TO FURNISH AND INSTALL FIRE ALARM DEVICES AS SHOWN ON PLAN. FIRE ALARM DEVICES TO MATCH EXISTING USED ON SITE.
- EC TO FURNISH AND INSTALL NEW NOTIFIER FIRE ALARM BOOSTER PANEL IF NEEDED AND CONNECT TO EXISTING FIRE ALARM MAIN PANEL.
- UPDATED SPEAKER STROBES WITH CANDELA RATINGS. STROBES WITHOUT RATING ARE EXISTING.



IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

BAR IS ONE INCH ON ORIGINAL DRAWING



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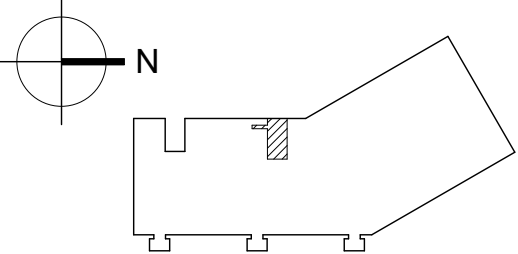
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100 RESULTS WAY
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DSGN:	REV.	DATE	REVISION DESCRIPTION	DWG.	CHK.	APVD.
S.FITZGERALD	A	04-19-21	ISSUED FOR 90% CLIENT REVIEW	SPF	MAP	
DR:	0	06-10-21	ISSUED FOR CONSTRUCTION	SPF	MAP	MAP
S.FITZGERALD	1	12/16/21	REVISED AS NOTED	SPF	MAP	MAP
CHK:	2	01/21/22	ISSUED FOR BULLETIN 2	SPF	MAP	MAP
M.POWERS						
APVD:						
M.POWERS						



CLD & CCM LABS
ELECTRICAL
LEVEL 3 WEST PART PLAN
FIRE ALARM

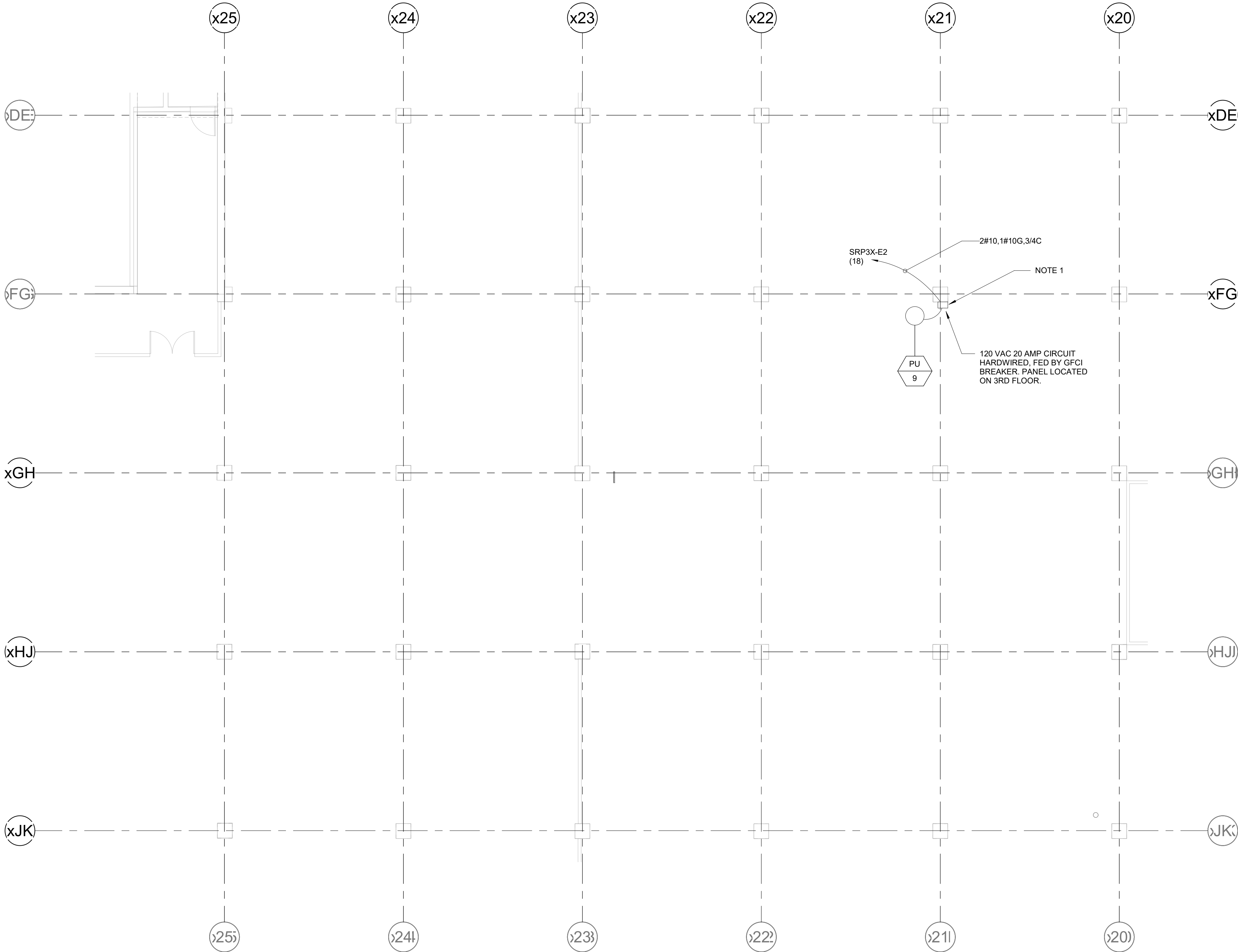
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ISSUE DATE: 04/08/21

SCALE: As indicated

SHEET NUMBER

E-108



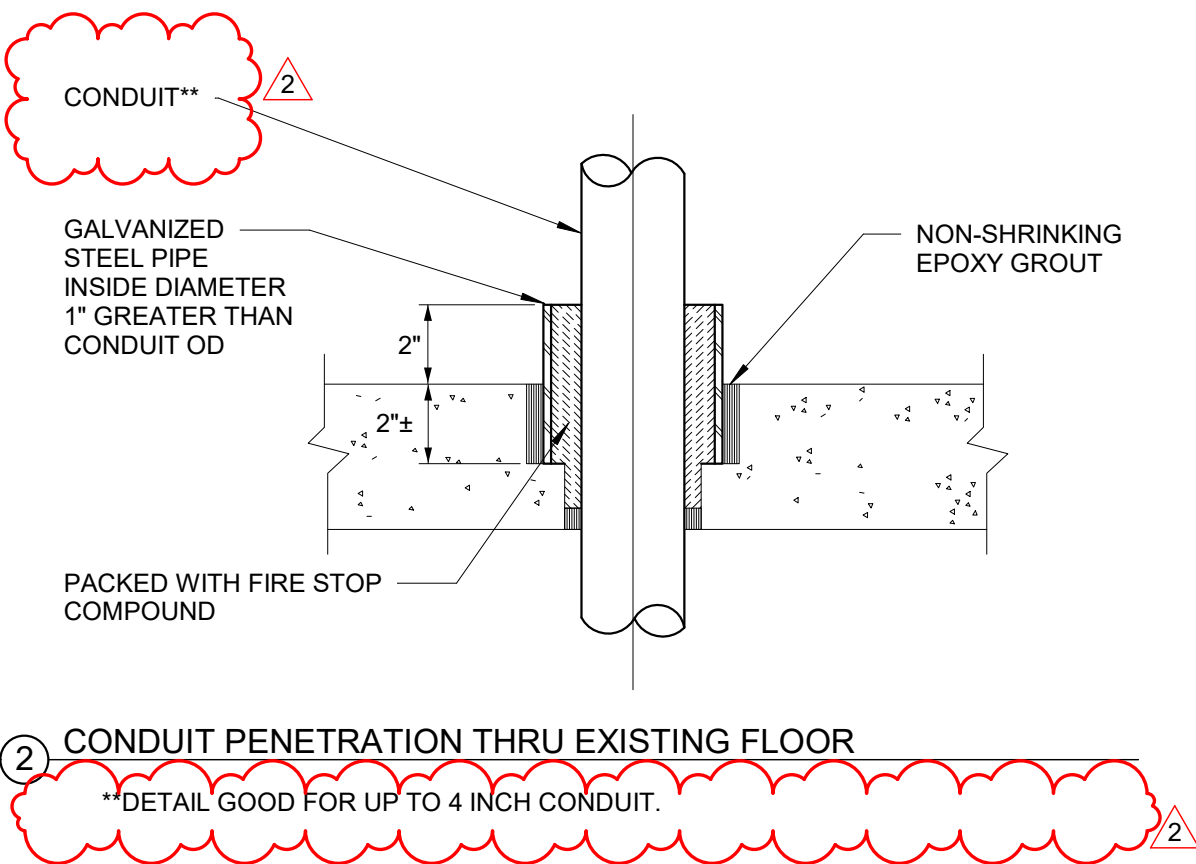
PROJECT NOTES

1. ELECTRICAL CONTRACTOR TO INSTALL AE-SERIES LIBERTY CONTROL PANEL AND PUMP JUNCTION BOX. WIRE PUMPS TO CONTROL PANEL, FOLLOW MANUFACTURER DOCUMENTATION. CONTROL PANEL AND PUMP JUNCTION BOX PROVIDED BY HVAC CONTRACTOR. COORDINATE LOCATION OF PANEL WITH HVAC CONTRACTOR.

1 PARTIAL PLAN: SECOND FLOOR LAB WASTE & VENT PLUMBING
1/8" = 1'-0"




GRAPHIC SCALE: 1/8" = 1'-0"



IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

BAR IS ONE INCH ON ORIGINAL DRAWING



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CUMBERLAND, RI 02864 | F: (401) 658-4609
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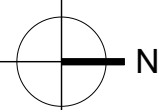


cytiva
100 RESULTS WAY
MARLBOROUGH, MA 01752

GENERAL NOTE:

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DSGN:	REV.	DATE	REVISION DESCRIPTION	DWG.	CHK.	APVD.
S.FITZGERALD	0	06-10-21	ISSUED FOR CONSTRUCTION	SPF	MAP	MAP
DR: S.FITZGERALD	1	10-22-21	ISSUED FOR BULLETIN 1	SPF	MAP	MAP
CHK: M.POWERS	2	01-21-22	ISSUED FOR BULLETIN 2	SPF	MAP	MAP
APVD: M.POWERS						



CLD & CCM LABS
ELECTRICAL
SECOND FLOOR PART PLAN
120 VAC POWER LAYOUT

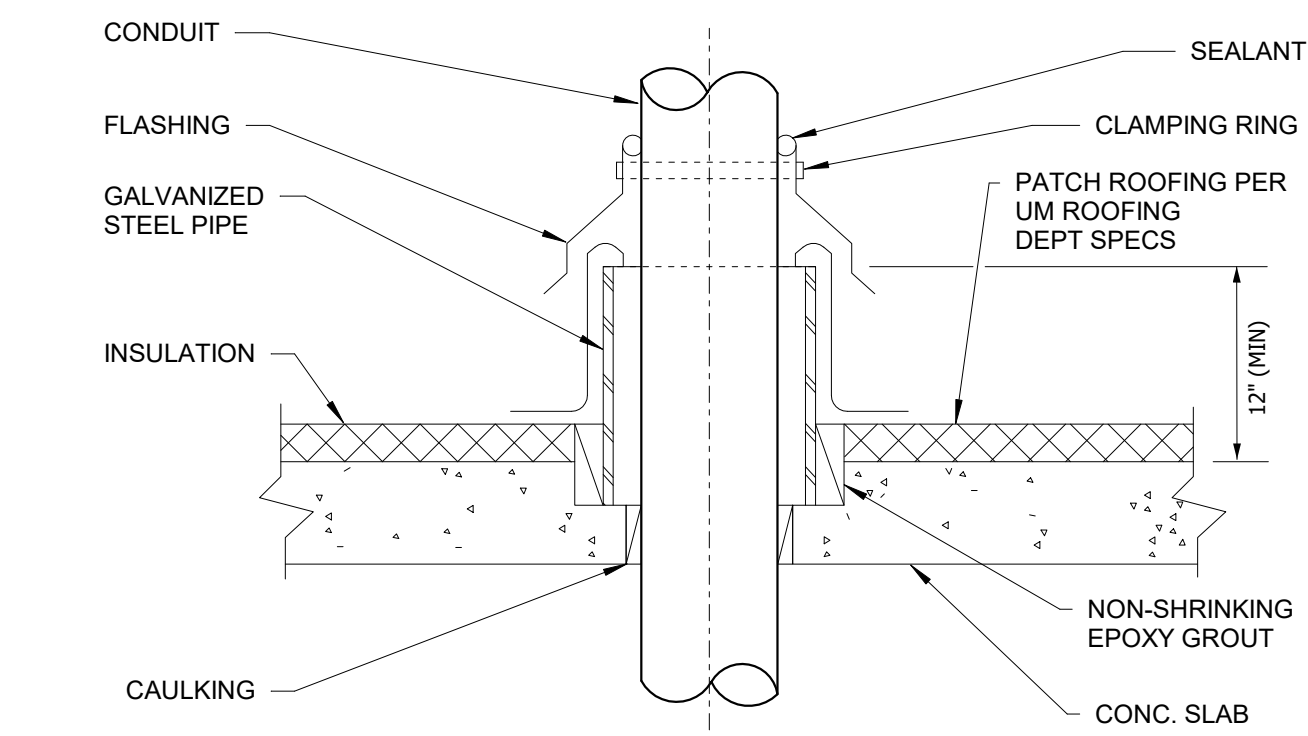
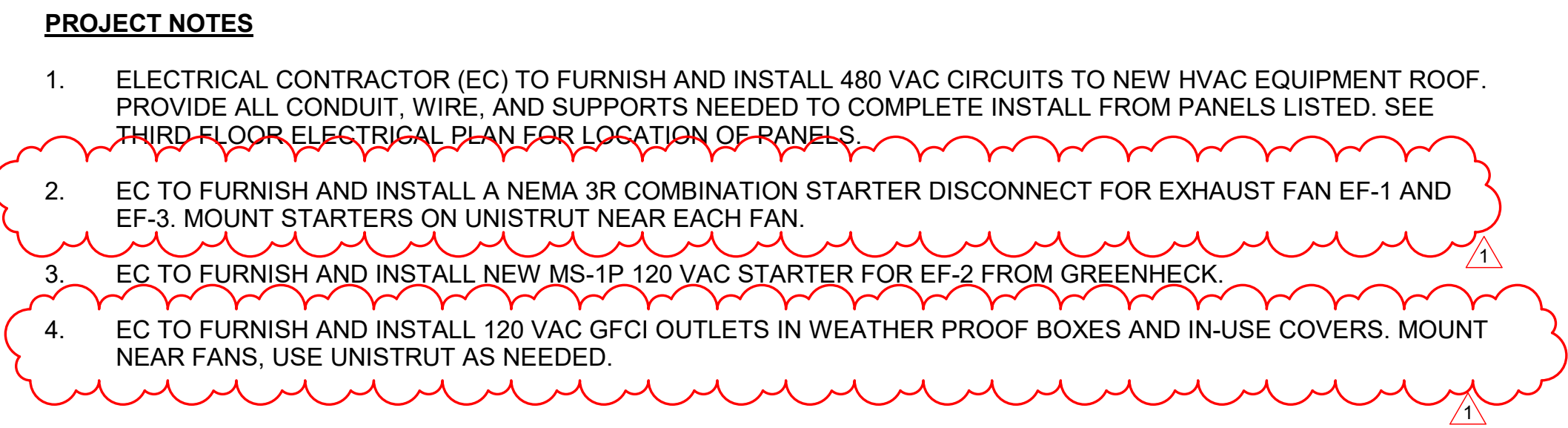
PROJ. NO: 20021A CAD FILE:

ISSUE DATE: 06/10/21

SCALE: 1/8" = 1'-0"

SHEET NUMBER

E-112



③ CONDUIT PENETRATION THRU EXISTING ROOF

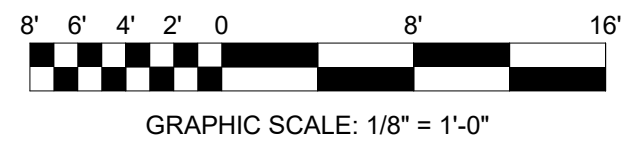
8' 6' 4' 2' 0 8' 16'

GRAPHIC SCALE: 1/8" = 1'-0"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

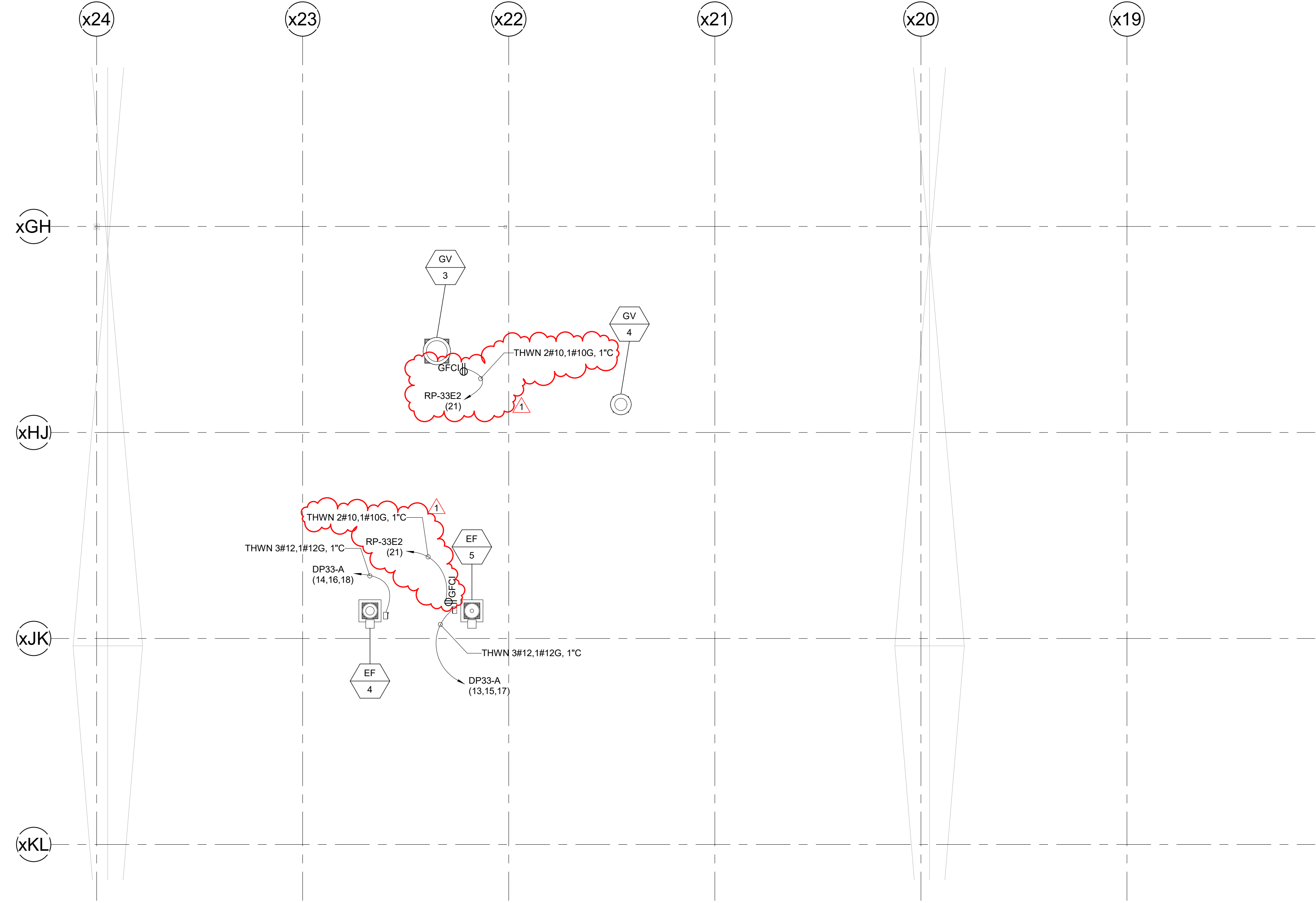
BAR IS ONE INCH ON ORIGINAL DRAWING

1" = 1'-0"



GRAPHIC SCALE: 1/8" = 1'-0"

1 ROOF MECHANICAL PLAN
1/8" = 1'-0"



PROJECT NOTES

- ELECTRICAL CONTRACTOR (EC) TO FURNISH AND INSTALL 480 VAC CIRCUITS TO NEW HVAC EQUIPMENT ROOF. PROVIDE ALL CONDUIT, WIRE, AND SUPPORTS NEEDED TO COMPLETE INSTALL FROM PANELS LISTED. SEE THIRD FLOOR ELECTRICAL PLAN FOR LOCATION OF PANELS.
- EC TO FURNISH AND INSTALL A NEMA 3R COMBINATION STARTER DISCONNECT FOR EXHAUST FAN EF-4 AND EF-5. MOUNT STARTERS ON UNISTRUT NEAR EACH FAN.
- EC TO FURNISH AND INSTALL 120 VAC GFCI OUTLETS IN WEATHER PROOF BOXES AND IN-USE COVERS. MOUNT NEAR FANS, USE UNISTRUT AS NEEDED.

1

GENERAL NOTE:

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DSGN:

S.FITZGERALD

DR:

S.FITZGERALD

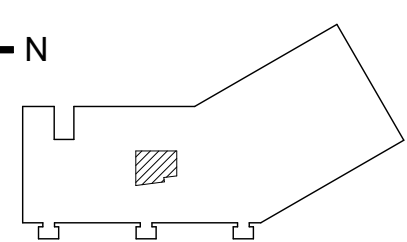
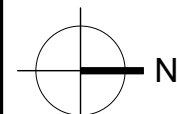
CHK:

M.POWERS

APVD:

M.POWERS

REV.	DATE	REVISION DESCRIPTION	DWG.	CHK.	APVD.
A	04-19-21	ISSUED FOR 90% CLIENT REVIEW	SPF	MAP	
0	06-10-21	ISSUED FOR CONSTRUCTION	SPF	MAP	MAP
1	01-21-22	ISSUED FOR BULLETIN 2	SPF	MAP	MAP



CLD & CCM LABS
ELECTRICAL
ROOF EAST PART PLAN
HVAC POWER LAYOUT

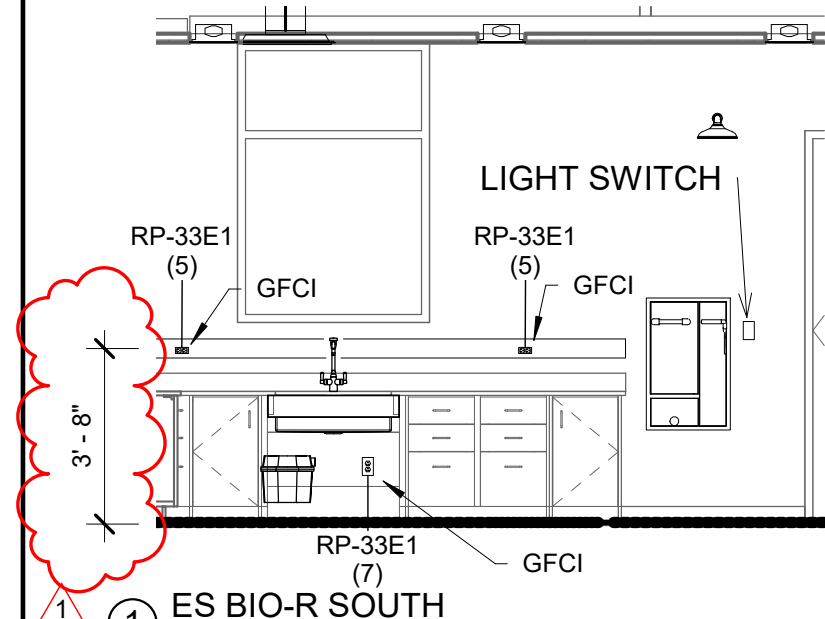
PROJ. NO: 20021A CAD FILE:

ISSUE DATE: 03/29/21

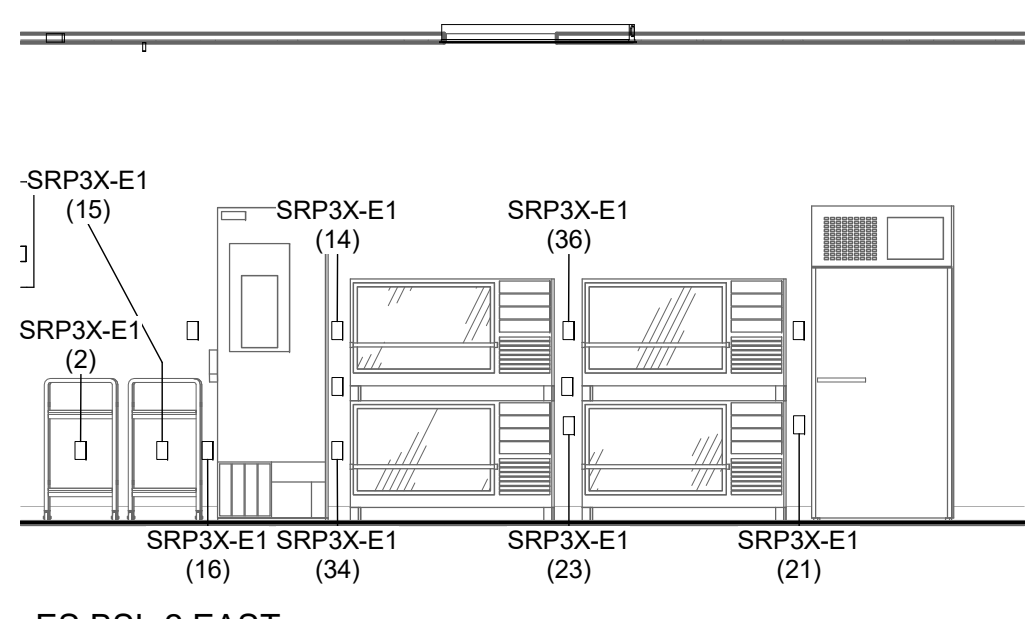
SCALE: As indicated

SHEET NUMBER

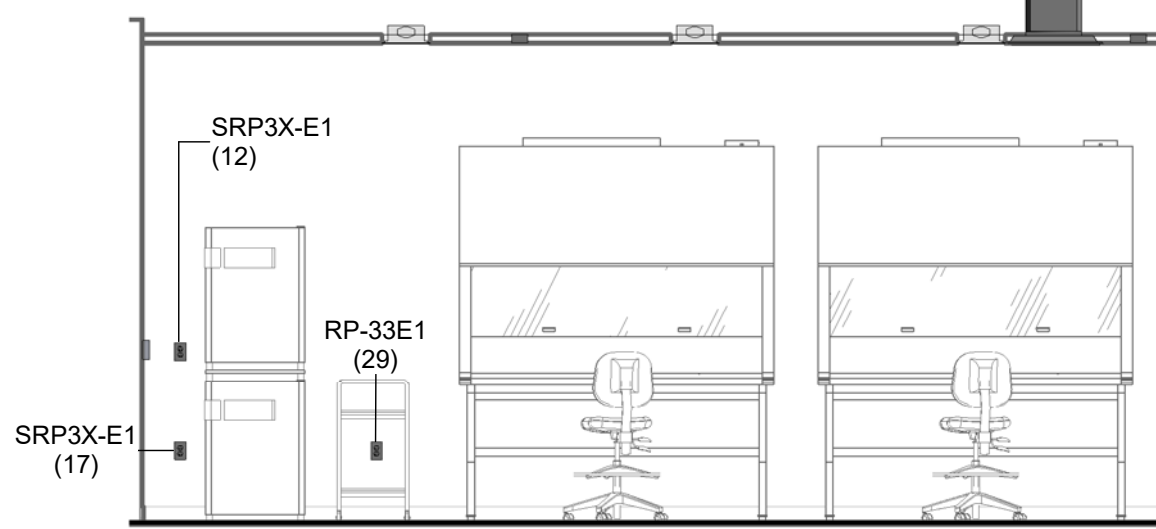
E-121



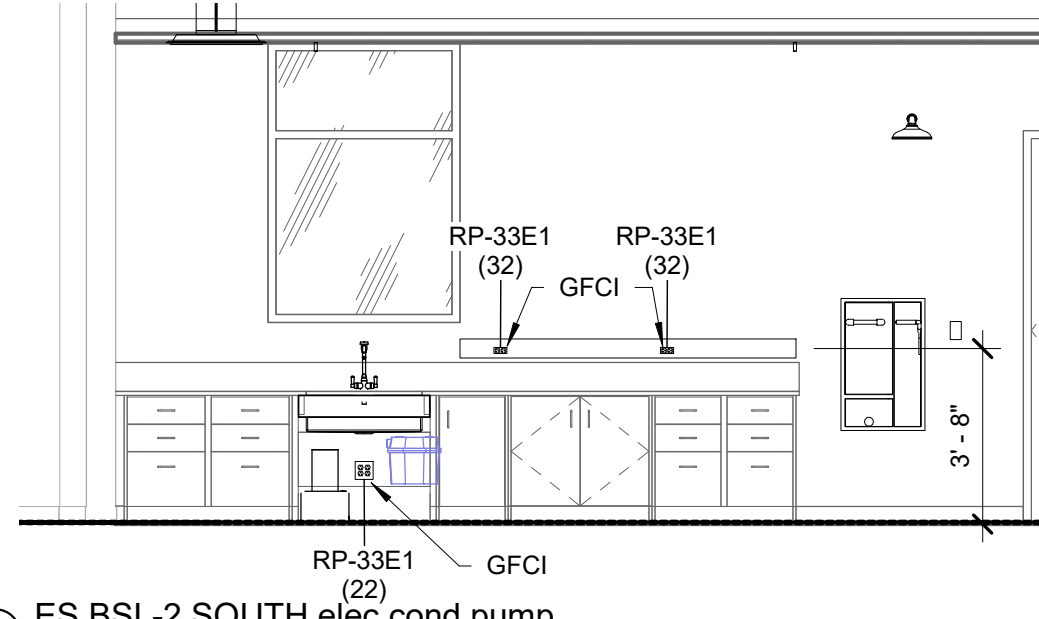
① ES BIO-R SOUTH
1/4" = 1'-0"



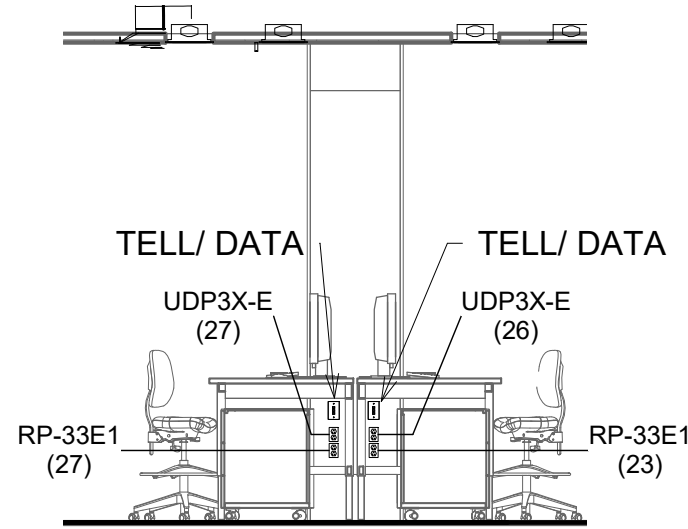
② ES BSL-2 EAST
1/4" = 1'-0"



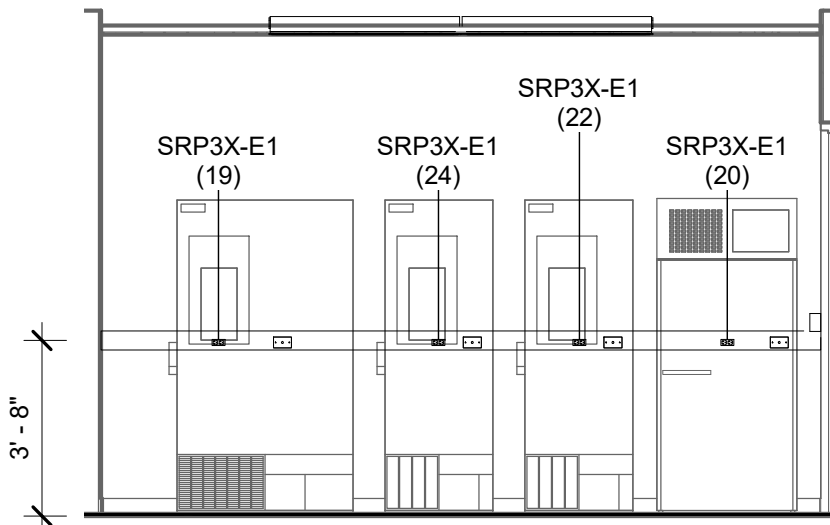
③ ES BSL-2 NORTH
1/4" = 1'-0"



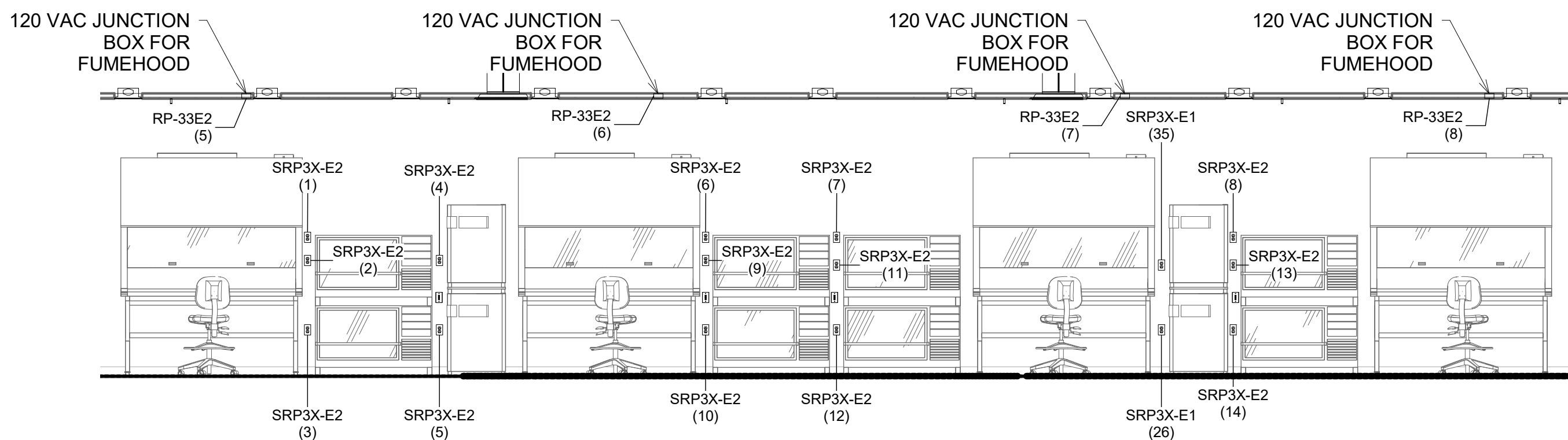
④ ES BSL-2 SOUTH elec cond pump
1/4" = 1'-0"



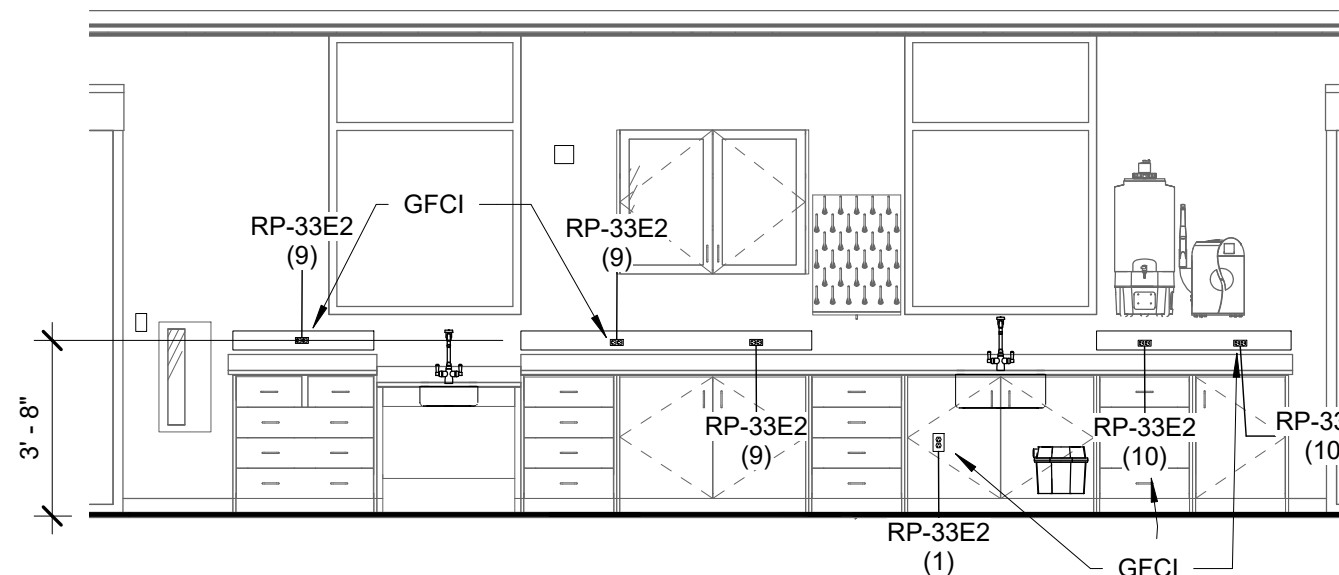
⑤ ES BSL-2 UNDER DESK OUTLETS
1/4" = 1'-0"



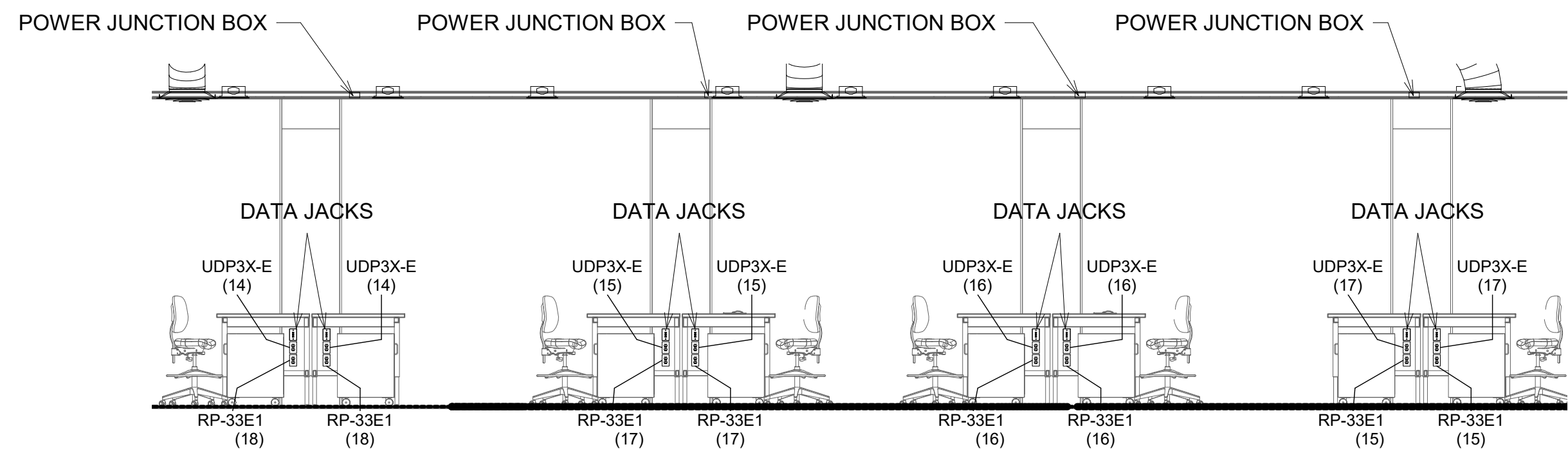
⑥ ES FRZ RM 3531
1/4" = 1'-0"



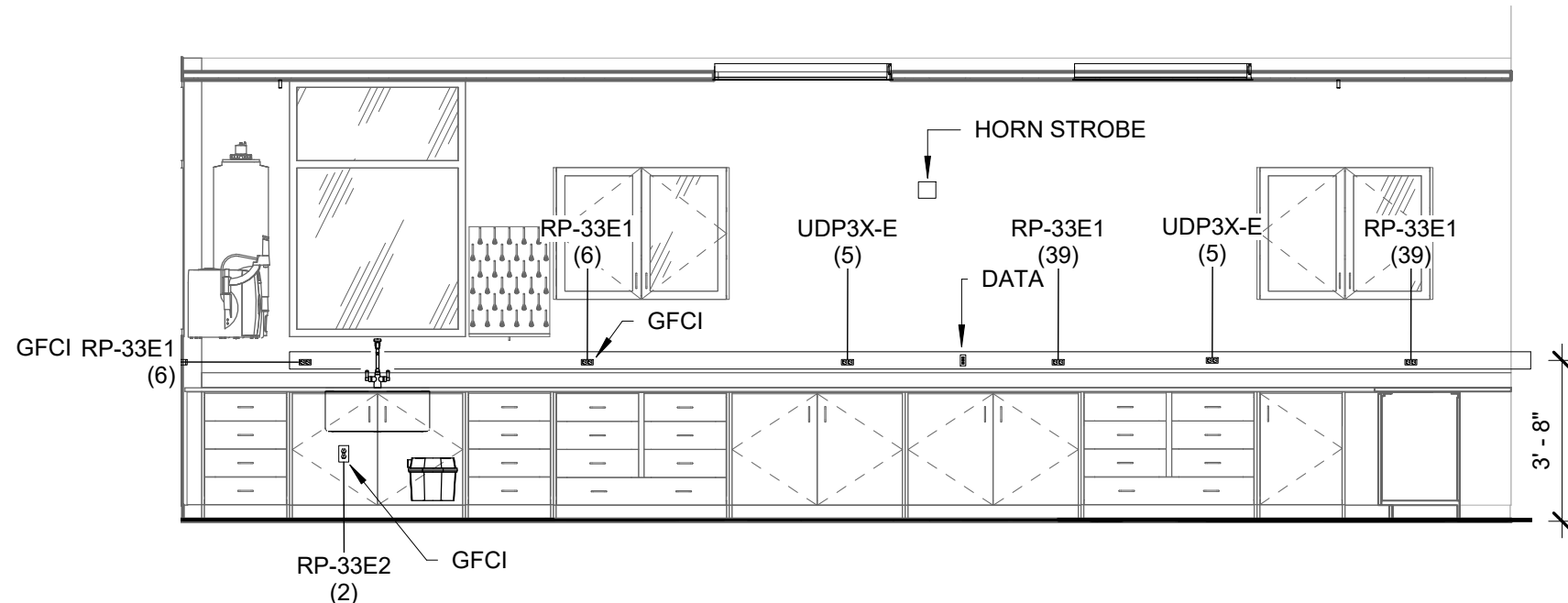
⑦ ES MAIN LAB 1 & 2
1/4" = 1'-0"



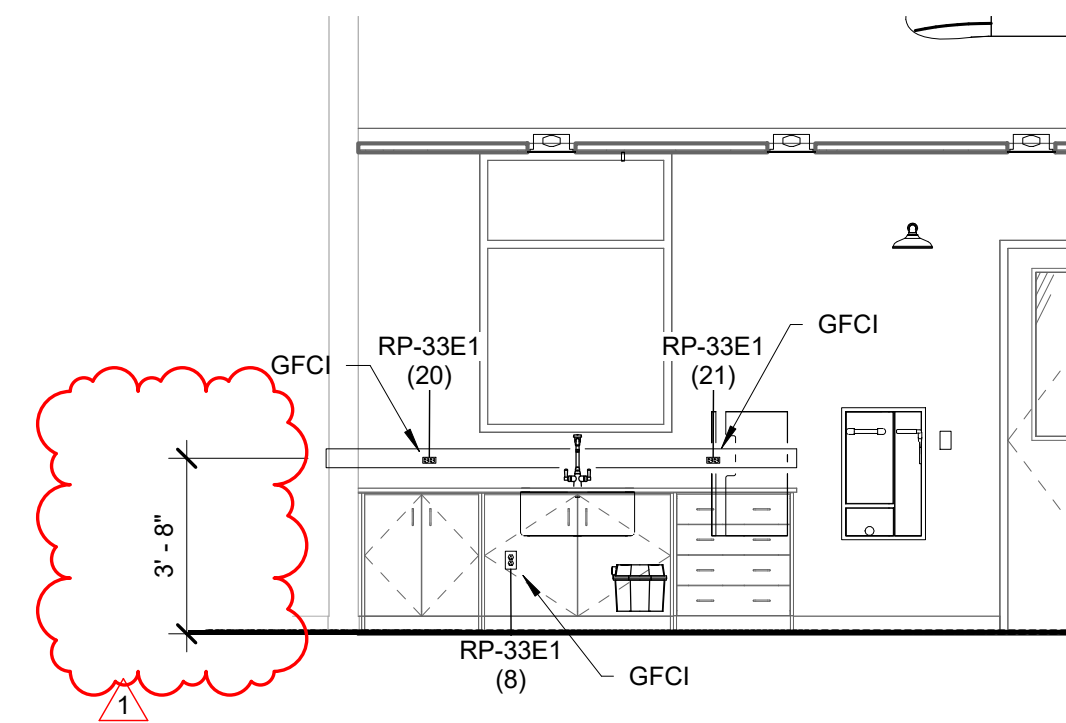
⑧ ES MAIN LAB NORTH
1/4" = 1'-0"



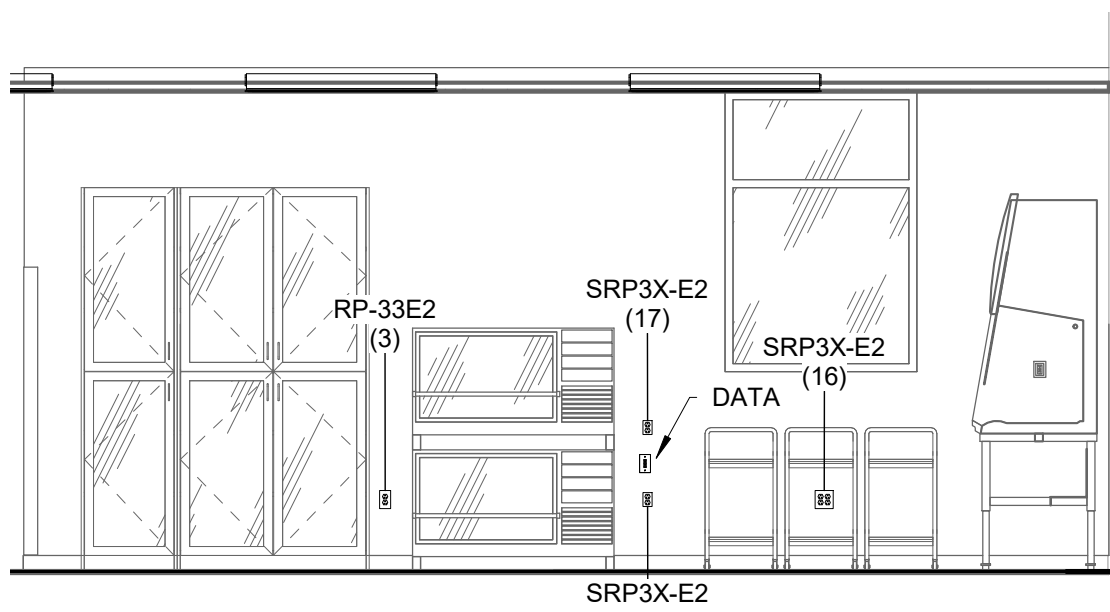
⑨ ES MAIN LAB UNDER DESK DATA AND POWER
1/4" = 1'-0"



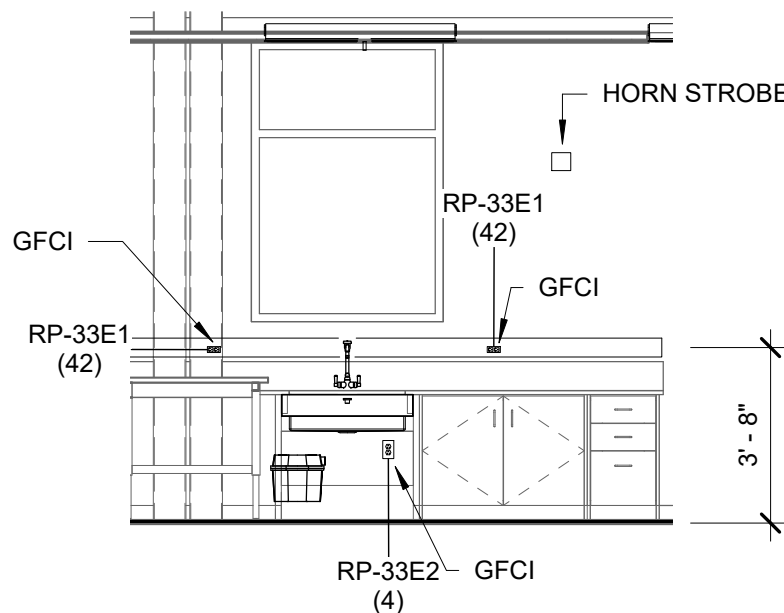
⑩ ES MEDIA PREP LAB EAST
1/4" = 1'-0"



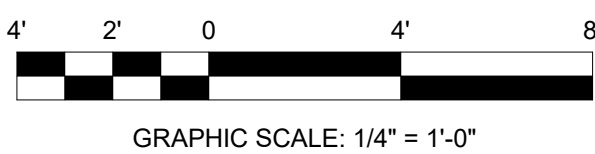
⑪ ES MILLING LAB SOUTH
1/4" = 1'-0"



⑫ ES MAIN LAB EAST
1/4" = 1'-0"



⑬ ES QUAR LAB WEST
1/4" = 1'-0"



GRAPHIC SCALE: 1/4" = 1'-0"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

BAR IS ONE INCH ON ORIGINAL DRAWING

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DSGN:

S.FITZGERALD
DR: S.FITZGERALD
CHK: M.POWERS
APVD: M.POWERS

REV.

0 06-10-21
1 01-21-22

DATE

ISSUED FOR CONSTRUCTION
ISSUED FOR BULLETIN 2

REVISION DESCRIPTION

DWG.

CHK.

APVD.

SPF MAP
SPF MAP

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

1" = 0'

BAR IS ONE INCH ON ORIGINAL DRAWING



Panel ID: RP-33E1
Voltage: 120/208 Wye
Phase/Wire: 3/4
Fed From:
Location: LEVEL 3, ELEC. 3538

MCB Rating: MLO
A.I.C. Rating: 22 KAIC
Manufacturer: SQ D
BUS RATING: 225A

NEW PANEL

CKT	DESCRIPTION	CB Size	Poles	A		B		C		Poles	CB Size	DESCRIPTION	CKT
1	HVAC	20 A	1	0	0					1	20 A	HVAC	2
3	HVAC	20 A	1			0	360			1	20 A	Power	4
5	Power	20 A	1					540	540	1	20 A	Power	6
7	Power	20 A	1	180	180					1	20 A	Power	8
9	Power	20 A	1			360	360			1	20 A	Power	10
11													12
13					540					1	20 A	Power	14
15	Power	20 A	1			360	360			1	20 A	Power	16
17	Power	20 A	1					360	360	1	20 A	Power	18
19	Power	20 A	1	360	180					1	20 A	Power	20
21	Power	20 A	1			180	180			1	20 A	Power	22
23	Power	20 A	1					180	360	1	20 A	Power	24
25	Other	20 A	1	0	0					1	20 A	Other	26
27	Power	20 A	1			180	0			1	20 A	Spare	28
29	Power	20 A	1					360	0	1	20 A	Power	30
31	Power	20 A	1	0	360					1	20 A	Power	32
33	Power	20 A	1			0	0			1	20 A	Power	34
35	Power	20 A	1					0	360	1	20 A	Power	36
37	Power	20 A	1	0	0					1	20 A	Power	38
39	Power	20 A	1			540	540			1	20 A	Power	40
41	Power	20 A	1					540	360	1	20 A	Power	42

Total Amps: 1800 VA 3420 VA 3960 VA

Total Connected Load: 9180 VA



Panel ID: RP-31W1
Voltage: 120/208 Wye
Phase/Wire: 3/4
Fed From: T-RP31W
Location: MECH / ELEC. 3519

MLO Rating: MLO
A.I.C. Rating: 22 KAIC
Manufacturer: SQ D
BUS RATING: 225A

NEW PANEL

CKT	DESCRIPTION		CB Size	Poles	A		B		C		Poles	CB Size	DESCRIPTION	CKT
1	Power		20 A	1	180	360					1	20 A	Power	2
3	Power		20 A	1			0	360			1	20 A	Power	4
5	HVAC		20 A	1					0	360	1	20 A	Power	6
7	Power		20 A	1	180	360					1	20 A	Power	8
9	Power		20 A	1			180	180			1	20 A	Power	10
11	Power		20 A	1					360	360	1	20 A	Power	12
13	Power		20 A	1	360	0					1	20 A	Power	14
15	Power		20 A	1			360	180			1	20 A	Power	16
17	Power		20 A	1					360	360	1	20 A	Power	18
19	Power		20 A	1	0	180					1	20 A	Power	20
21	Power		20 A	1			0	0			1	20 A	Power	22
23	Power		20 A	1					360	0	1	20 A	Power	24
25					0						1	20 A	Power	26
27							540				1	20 A	Power	28
29														30
31														32
33														34
35														36
37														38
39														40
41														42

Total Amps: 1620 VA 1800 VA 2160 VA

Total Connected Load: 5580 VA

Panel ID: RP-33E2
Voltage: 120/208 Wye
Phase/Wire: 3/4
Fed From:
Location: ELEC. 3538

MCB Rating: MLO
A.I.C. Rating: 22 KAIC
Manufacturer: SQ D
BUS RATING: 225A

NEW PANEL

CKT	DESCRIPTION	CB Size	Poles	A		B		C		Poles	CB Size	DESCRIPTION	CKT
1	Power	20 A	1	180	180					1	20 A	Power	2
3	Power	20 A	1			180	180			1	20 A	Power	4
5	Power	20 A	1					0	0	1	20 A	Power	6
7	Power	20 A	1	0	0					1	20 A	Power	8
9	Power	20 A	1			540	360			1	20 A	Power	10
11	Power	20 A	1					360	0				12
13	Power	20 A	2	0	0					2	20 A	Power	14
15						0	0						16
17	Power	20 A	2					0	0	2	20 A	Power	18
19				0	0					1	20 A	Power	20
21	ROOF GFCI	20 A	1			360							22
23													24
25													26
27													28
29													30
31													32
33													34
35													36
37													38
39													40
41													42

Total Amps: 360 VA 1620 VA 360 VA

Total Connected Load: 2340 VA



Panel ID: RP-31W2
Voltage: 120/208 Wye
Phase/Wire: 3/4
Fed From:
Location: LEVEL 3, MECH / ELEC. 3519

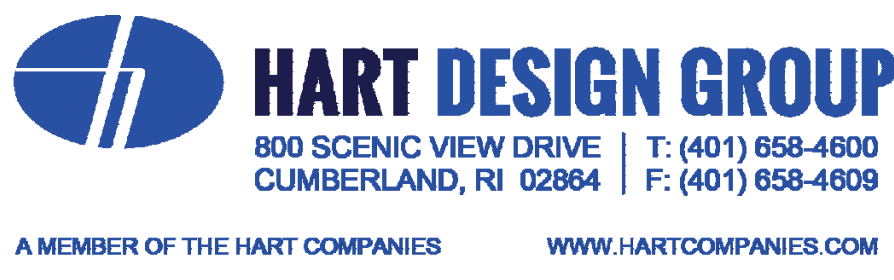
MCB Rating: MLO
A.I.C. Rating: 22KAIC
Manufacturer: SQ D
BUS RATING: 225A

NEW PANEL

CKT	DESCRIPTION	CB Size	Poles	A	B	C	Poles	CB Size	DESCRIPTION	CKT	
1	Power	20 A	1	180	180		1	20 A	Power	2	
3	120V - NON-Fusible 20A, 277 V/480 V,...	20 A	1		0	180	1	20 A	Power	4	
5	Power	20 A	1			180	180	1	20 A	Power	6
7	Power	20 A	1	180	180		1	20 A	Power	8	
9	Power	20 A	2		0	0	2	20 A	Power	10	
11						0	0			12	
13	Power	20 A	2	0	0		1	20 A	Power	14	
15					0	540	1	20 A	ROOF GFCI	16	
17										18	
19										20	
21										22	
23										24	
25										26	
27										28	
29										30	
31										32	
33										34	
35										36	
37										38	
39										40	
41										42	

Total Amps: 720 VA 720 VA 360 VA

Total Connected Load: 1800 VA



GENERAL NOTE:

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DSGN:	REV.	DATE	REVISION DESCRIPTION	DWG.	CHK.	APVD.
S.FITZGERALD	A	04-19-21	ISSUED FOR 90% CLIENT REVIEW	SPF	MAP	
S.FITZGERALD	0	06-10-21	ISSUED FOR CONSTRUCTION	SPF	MAP	MAP
CHK:	1	10-22-21	ISSUED FOR BULLETIN 1	SPF	MAP	MAP
APVD:	2	01/21/22	ISSUED FOR BULLETIN 2	SPF	MAP	MAP
M.POWERS						
M.POWERS						

CLD & CCM LABS
ELECTRICAL
PANELS SCHEDULES
208 / 120 VAC CONT.

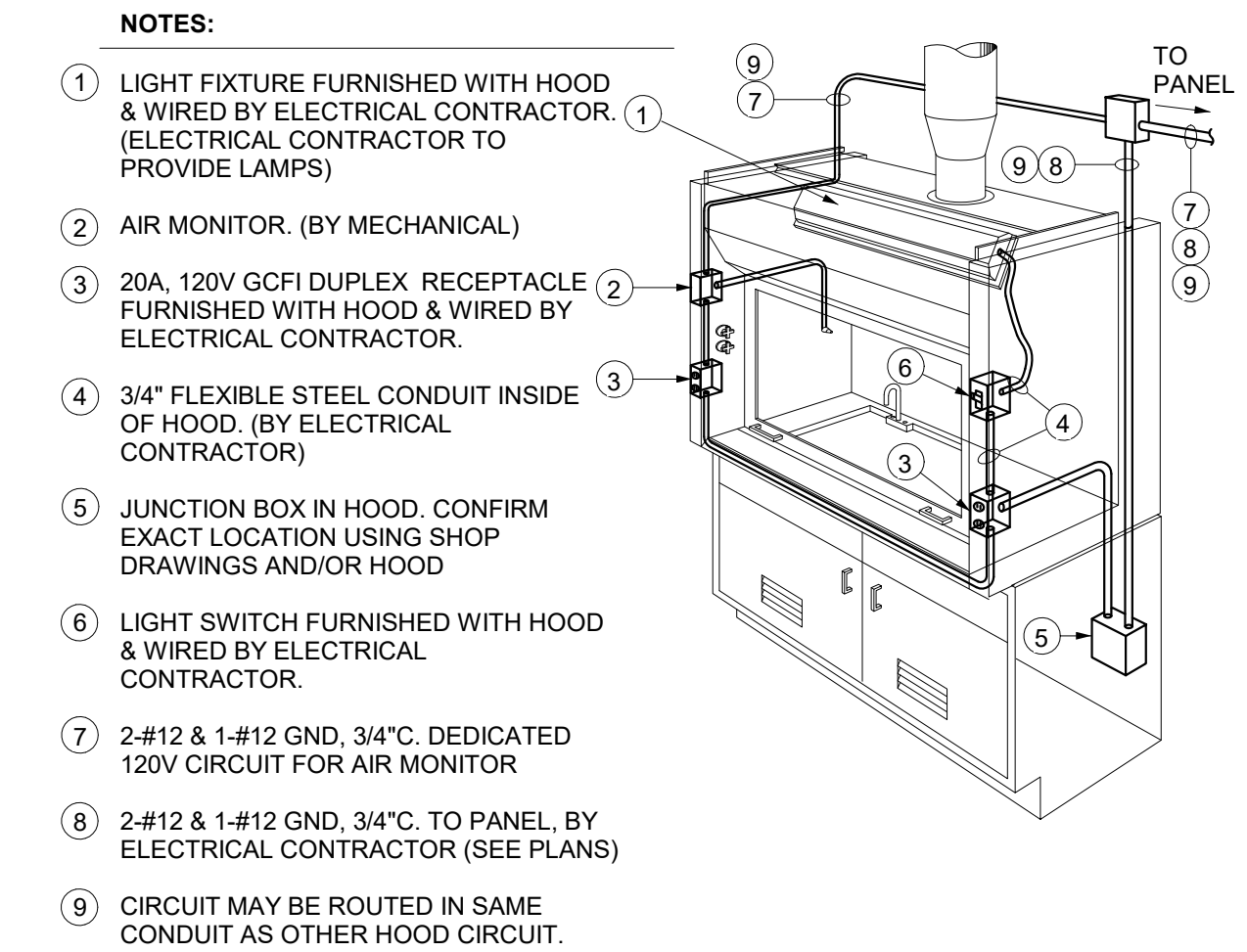
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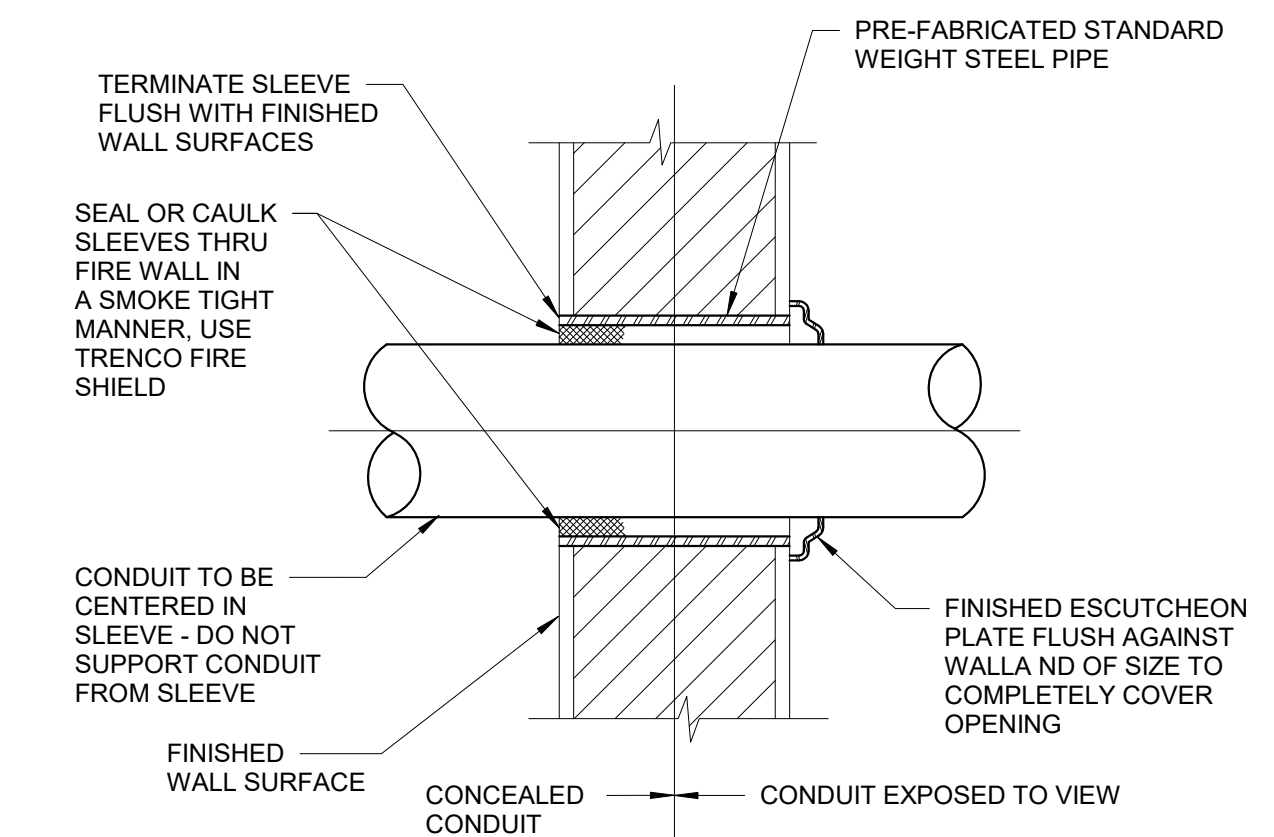
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E-508

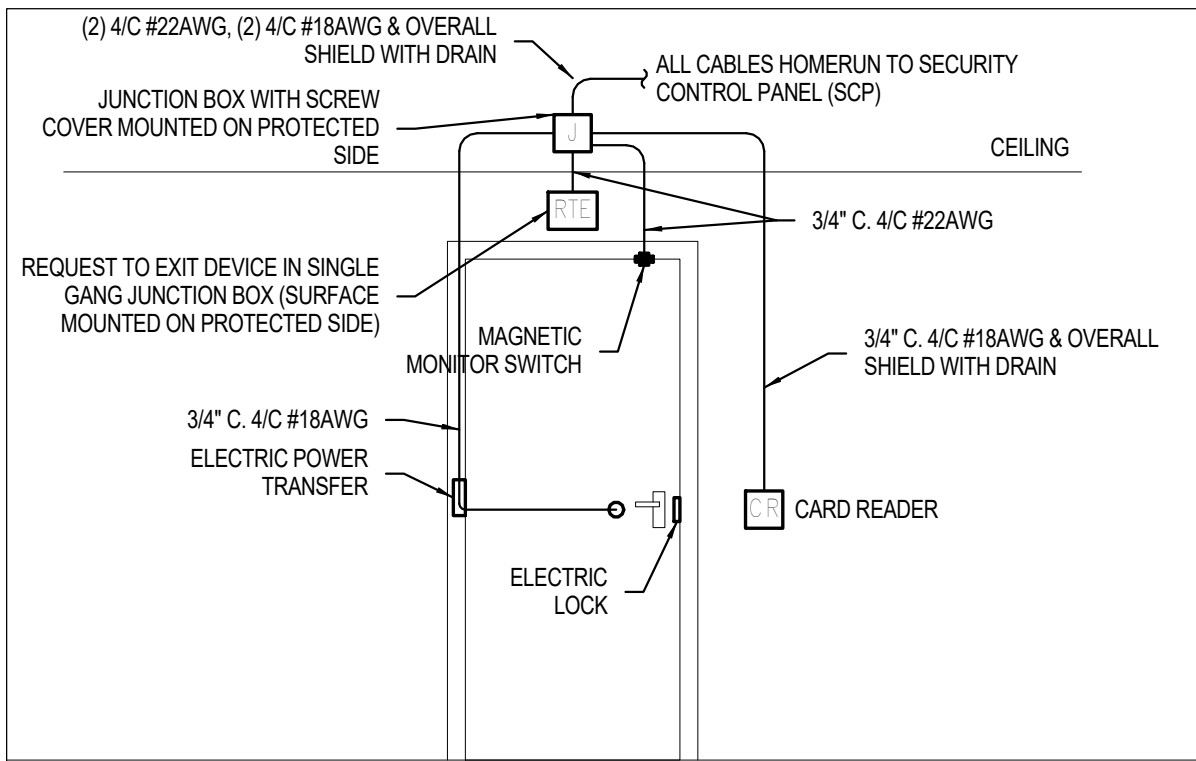
PROJ. NO: 20021A CAD FILE:



1 FUME HOOD ELECTRICAL SERVICE

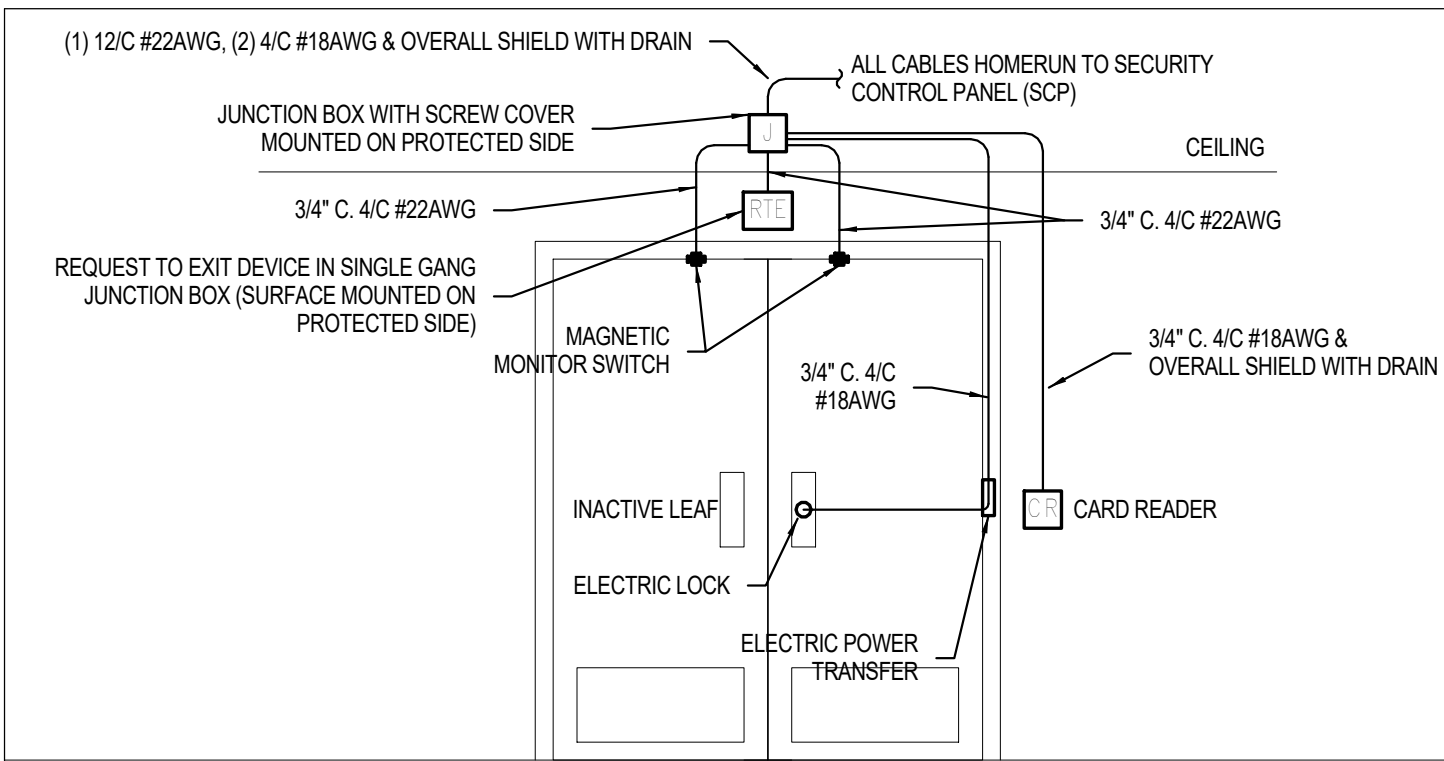


2 CONDUIT SLEEVE THRU INTERIOR WALL



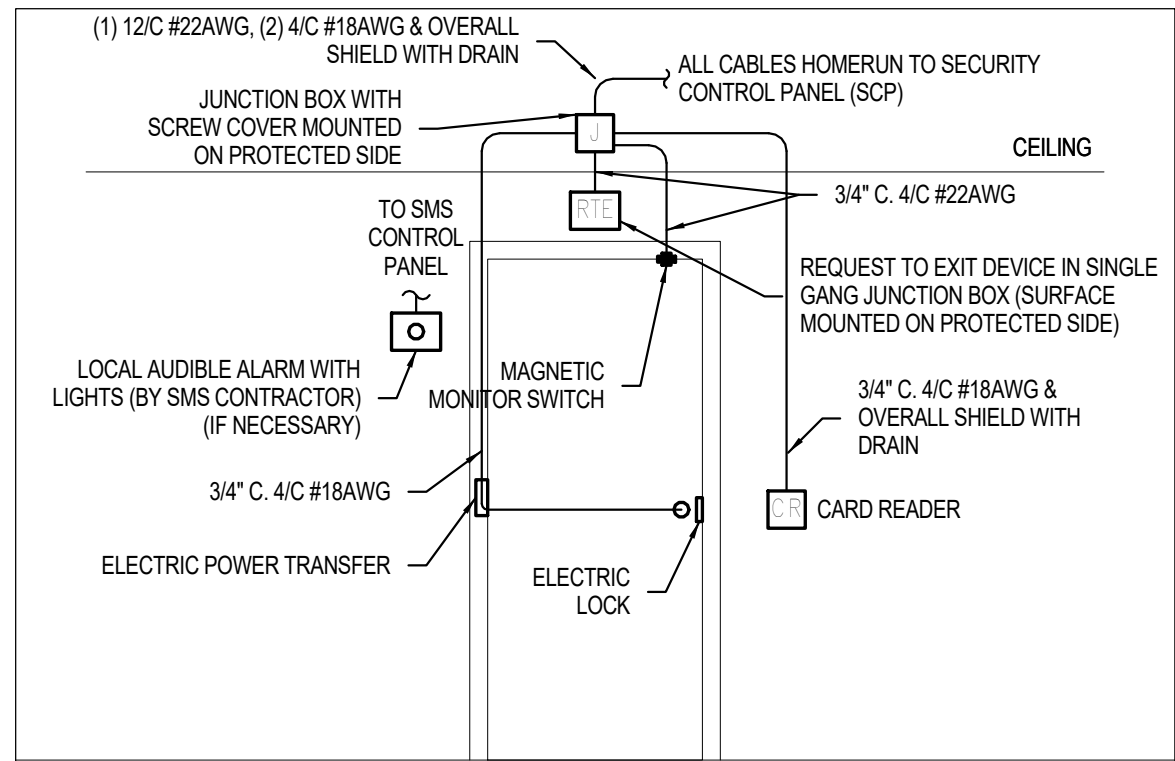
ACCESS CONTROLLED SINGLE DOOR CONFIGURATION

S3 SCALE: NONE



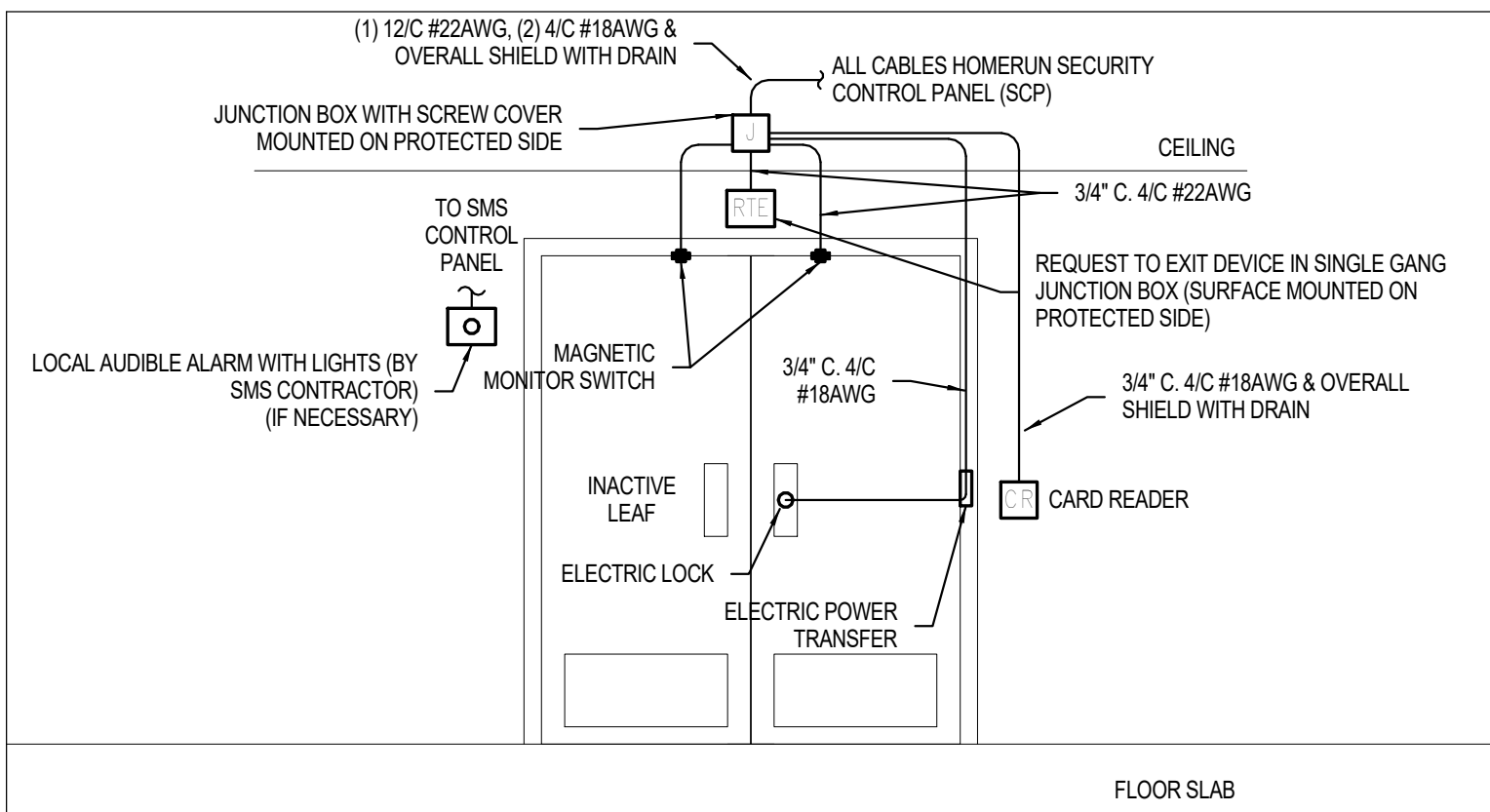
ACCESS CONTROLLED DOUBLE DOOR CONFIGURATION

S4 SCALE: NONE



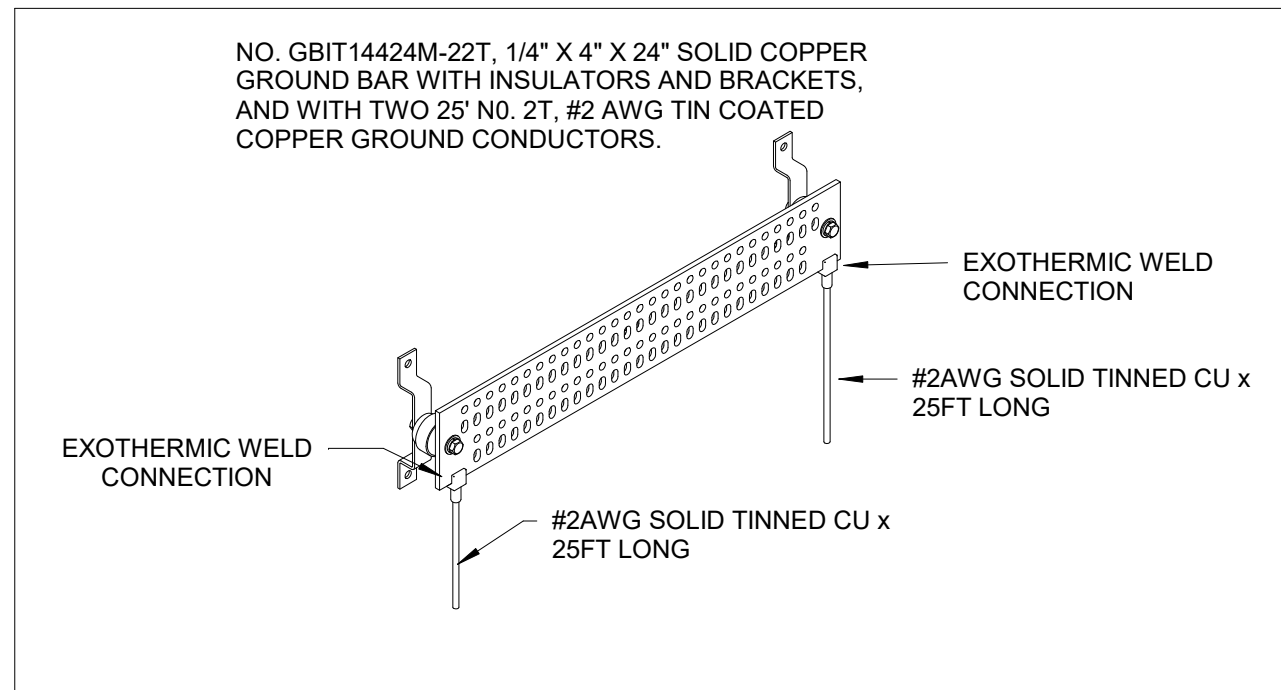
ACCESS CONTROLLED AIRLOCK SINGLE DOOR CONFIGURATION

S5 SCALE: NONE

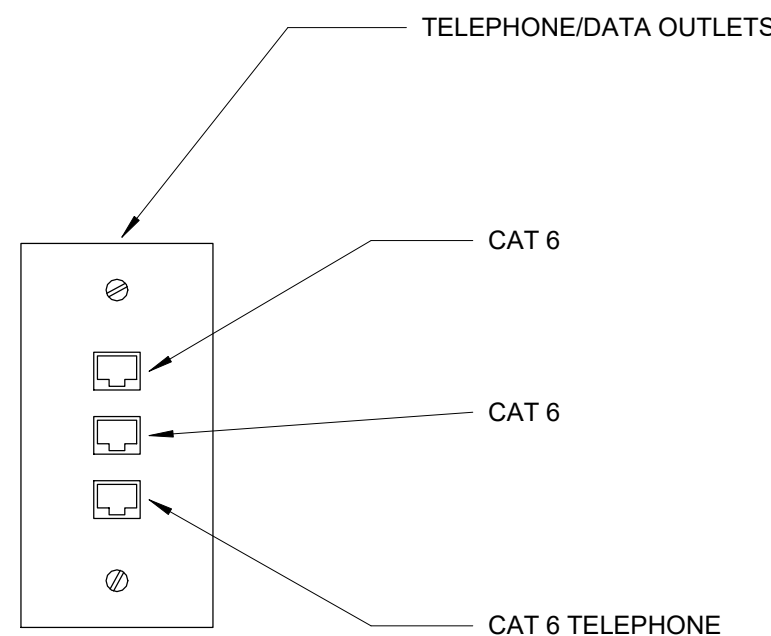


ACCESS CONTROLLED AIRLOCK DOUBLE DOOR CONFIGURATION

S6 SCALE: NONE

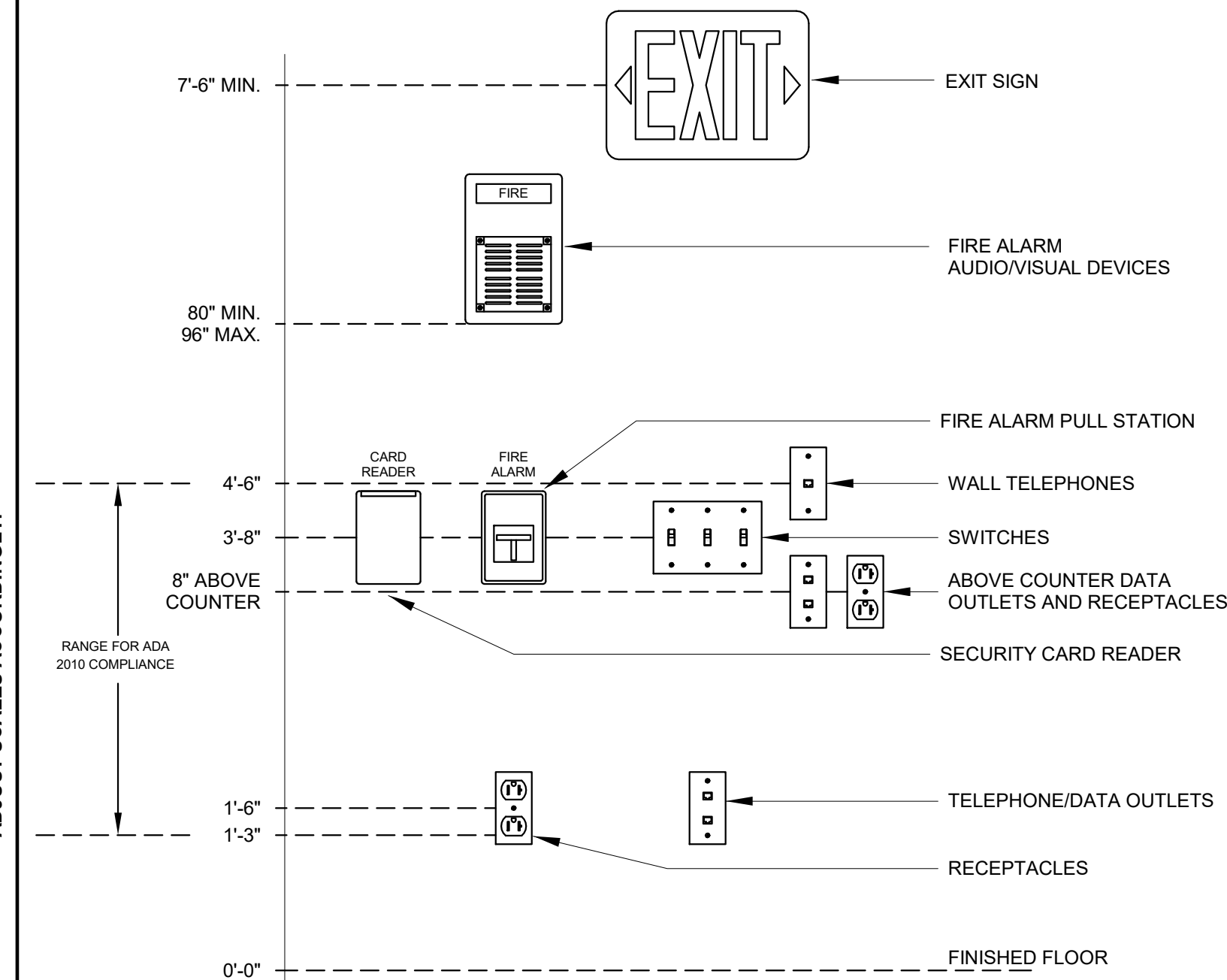


6 GROUND BAR DETAIL 1

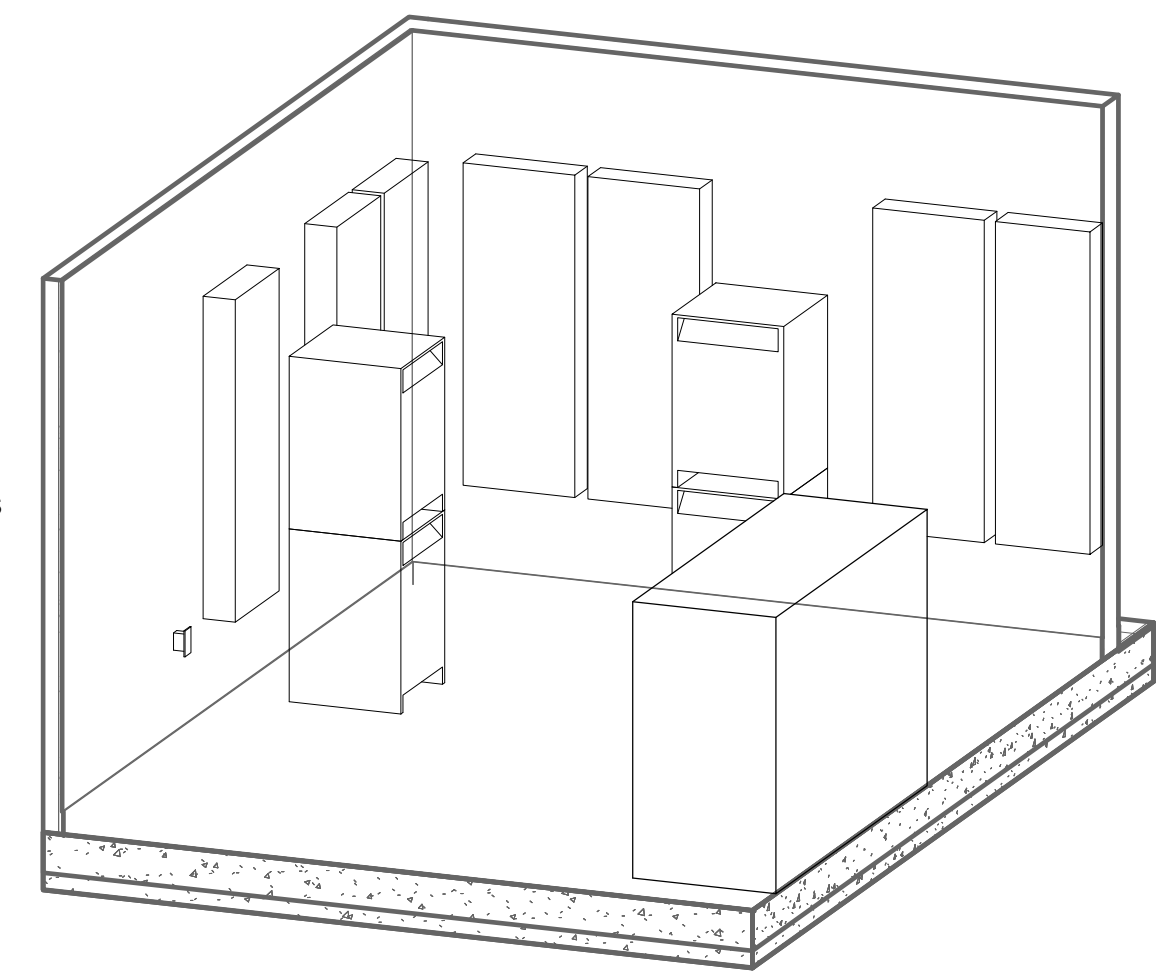


8 DATA OUTLET

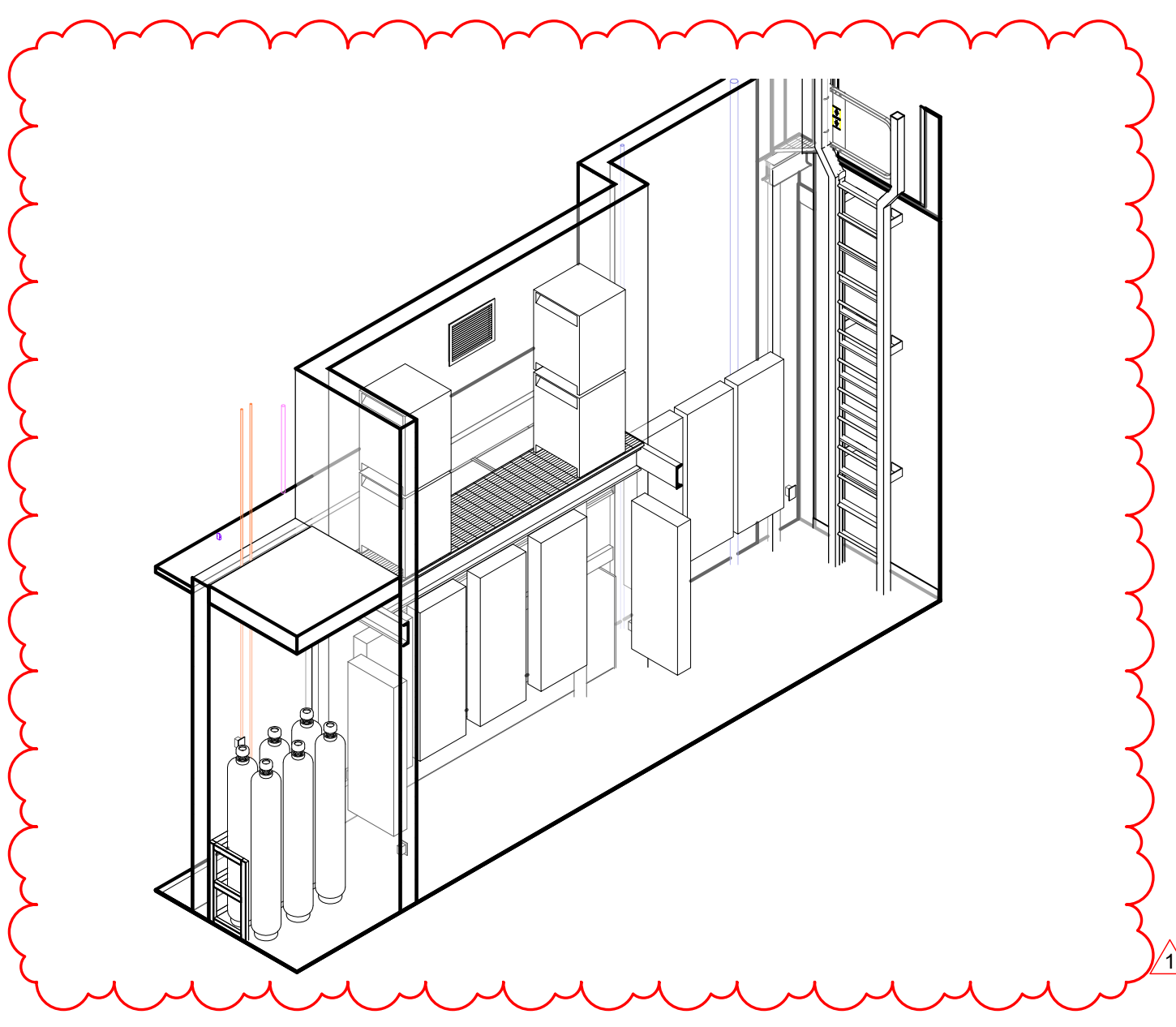
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



Device Mounting Heights new with ADA



5 ELEC MECH ROOM



7 ELEC CLOSET 3D STEEL

SPECIAL PURPOSE RECEPTACLE SCHEDULE				
SYMBOL	NEMA #	DEVICE RATINGS	CIRCUIT BREAKER	BRANCH CIRCUIT
	5-20R	20A., 125V., 2P., 3W.	20A-1P	2#12 & 1#12 GND - 3/4" C.
	5-30R	30A., 125V., 2P., 3W.	30A-1P	2#10 & 1#10 GND - 3/4" C.
	5-50R	50A., 125V., 2P., 3W.	50A-1P	2#6 & 1#10 GND - 3/4" C.
	5-60R	60A., 125V., 2P., 3W.	60A-1P	2#6 & 1#10 GND - 3/4" C.
	6-20R	20A., 250V., 2P., 3W.	20A-2P	2#12 & 1#12 GND - 3/4" C.
	6-30R	30A., 250V., 2P., 3W.	30A-2P	2#10 & 1#10 GND - 3/4" C.
	6-50R	50A., 250V., 2P., 3W.	50A-2P	2#6 & 1#10 GND - 3/4" C.
	6-60R	60A., 250V., 2P., 3W.	60A-2P	2#6 & 1#10 GND - 3/4" C.
	7-20R	20A., 277V., 2P., 3W.	20A-1P	2#12 & 1#12 GND - 3/4" C.
	7-30R	30A., 277V., 2P., 3W.	30A-1P	2#10 & 1#10 GND - 3/4" C.
	7-50R	50A., 277V., 2P., 3W.	50A-1P	2#6 & 1#10 GND - 3/4" C.
	7-60R	60A., 277V., 2P., 3W.	60A-1P	2#6 & 1#10 GND - 3/4" C.
	14-20R	20A., 125/250V., 3P., 4W.	20A-2P	3#12 & 1#12 GND - 3/4" C.
	14-30R	30A., 125/250V., 3P., 4W.	30A-2P	3#10 & 1#10 GND - 3/4" C.
	14-50R	50A., 125/250V., 3P., 4W.	50A-2P	3#6 & 1#10 GND - 1" C.
	14-60R	60A., 125/250V., 3P., 4W.	60A-2P	3#6 & 1#10 GND - 1" C.
	15-20R	20A., 250V., 3 PHASE, 3P., 4W.	20A-3P	3#12 & 1#12 GND - 3/4" C.
	15-30R	30A., 250V., 3 PHASE, 3P., 4W.	30A-3P	3#10 & 1#10 GND - 3/4" C.
	15-50R	50A., 250V., 3 PHASE, 3P., 4W.	50A-3P	3#6 & 1#10 GND - 1" C.
	15-60R	60A., 250V., 3 PHASE, 3P., 4W.	60A-3P	3#6 & 1#10 GND - 1" C.
	16-20R	20A., 480V., 3 PHASE, 3P., 4W.	20A-3P	3#12 & 1#12 GND - 3/4" C.
	16-30R	30A., 480V., 3 PHASE, 3P., 4W.	30A-3P	3#10 & 1#10 GND - 3/4" C.
	16-50R	50A., 480V., 3PHASE, 3P., 4W.	50A-3P	3#6 & 1#10 GND - 1" C.
	16-60R	60A., 480V., 3 PHASE, 3P., 4W.	60A-3P	3#6 & 1#10 GND - 1" C.

SCHEDULE NOTES

- "L" INDICATES TWIST-LOCK RECEPTACLE. E.G. () L - L15-60R 60A., 250V., 3 PHASE, 3P., 4W TWIST LOCK)
- COORDINATE EXACT NEMA CONFIGURATION WITH EQUIPMENT MANUFACTURER/PROVIDER.

9 SPEC REC SCH

GENERAL NOTE:

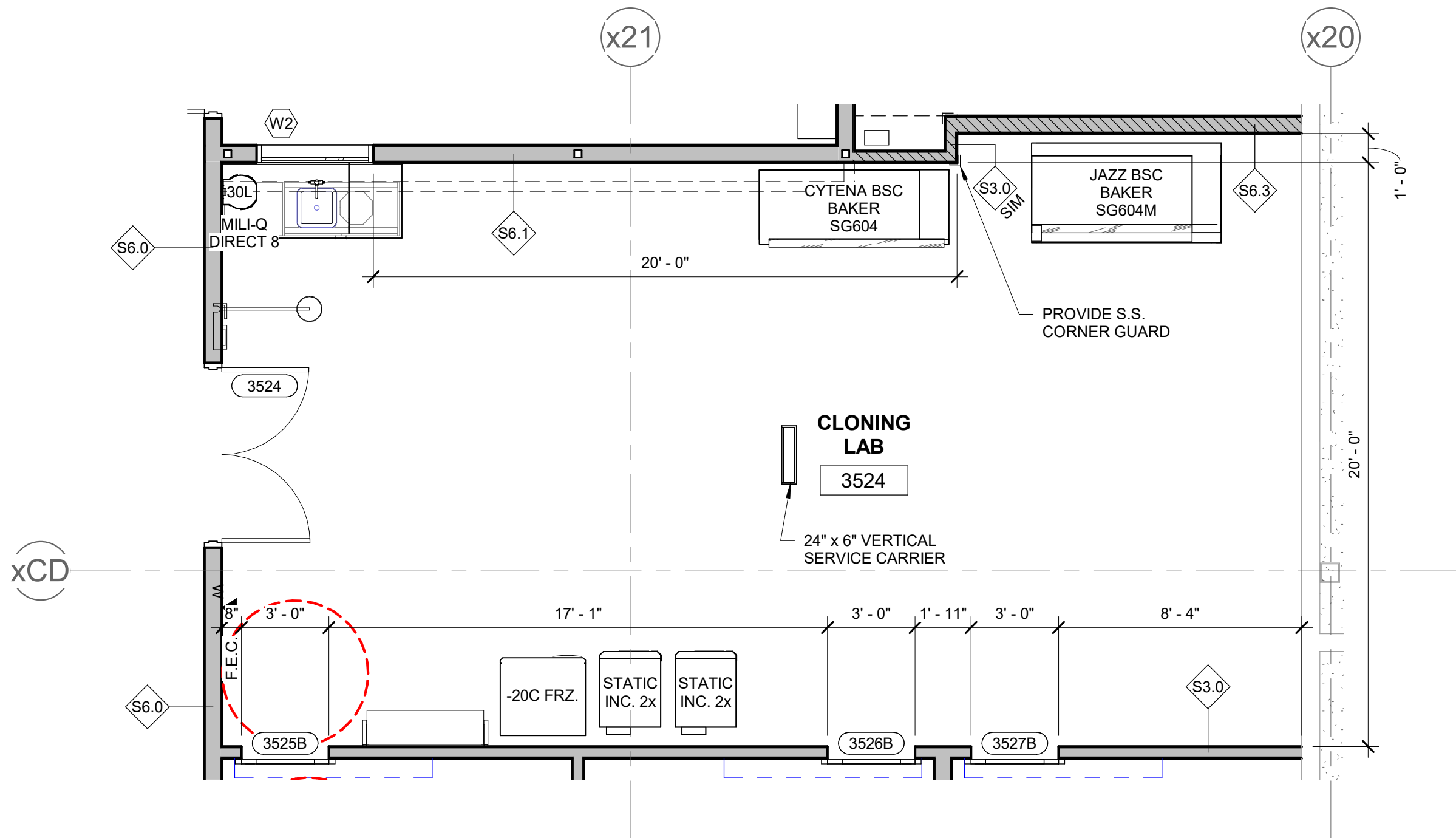
ALL CONTRACTED PARTIES ARE REQUIRED TO REVIEW ALL CONTRACT DOCUMENTS, INCLUDING CONTRACT DRAWINGS AND/OR PROJECT SPECIFICATIONS. FOR ALL DISCIPLINES TO ASCERTAIN THE COMPLETE SCOPE OF WORK FOR THE PROJECT.

DSGN:	REV.	DATE	REVISION DESCRIPTION	DWG.	CHK.	APVD.
S.FITZGERALD	A	04-19-21	ISSUED FOR 90% CLIENT REVIEW	SPF	MAP	
S.FITZGERALD	0	06-10-21	ISSUED FOR CONSTRUCTION	SPF	MAP	MAP
CHK:	1	01-21-22	ISSUED FOR BULLETIN 2	SPF	MAP	MAP
M.POWERS						
APVD:						
M.POWERS						

IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

0" 1"

BAR IS ONE INCH ON
ORIGINAL DRAWING

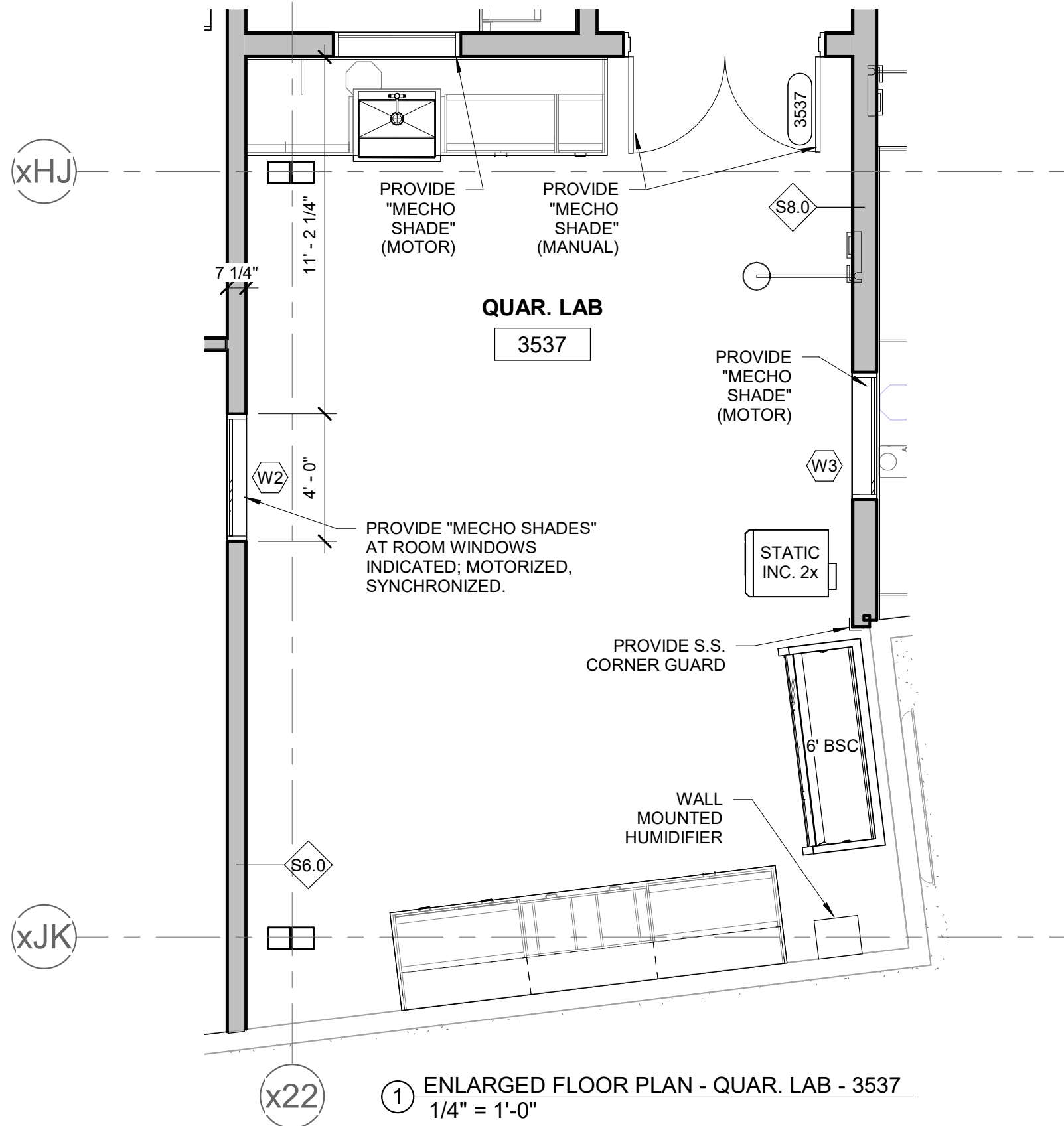


1 ENLARGED FLOOR PLAN - CLONING LAB - 3524
1/4" = 1'-0"

IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

0" — 1"

BAR IS ONE INCH ON
ORIGINAL DRAWING

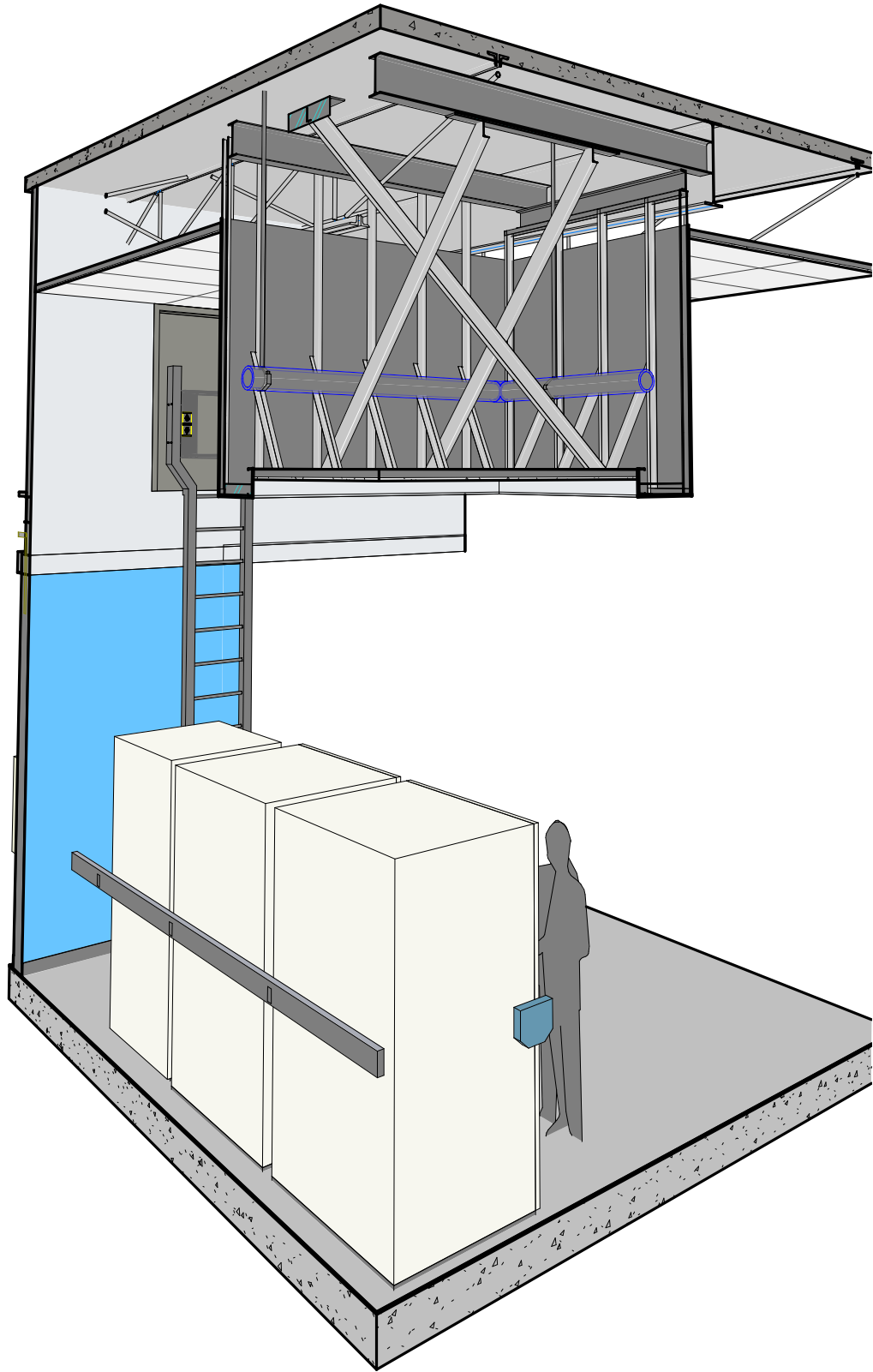


① ENLARGED FLOOR PLAN - QUAR. LAB - 3537
1/4" = 1'-0"

IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

0" — 1"

BAR IS ONE INCH ON
ORIGINAL DRAWING



SHEET NUMBER	SHEET NAME	SHEET ISSUE DATE

ARCHITECTURAL

SKA-405.0	CRYO STOR. RM. 3522 & LN2 STOR. RM. 3523 SK PACKAGE INDEX 01/11/22	01/11/22
SKA-405.1	CRYO STOR. RM. 3522 & LN2 STOR. RM. 3523 ENLARGED CEILING FRAMING PLAN	01/11/22
SKA-405.2	CRYO STOR. RM. 3522 & LN2 STOR. RM. 3523 ENLARGED SECTION	01/11/22

ARCHITECTURAL

SKA-502.1	PIPE ENCLOSURE - CRYO. STOR. RM. 3522 ENLARGED FLOOR PLAN AT MEZZANINE LEVEL	01/11/22
SKA-502.2	PIPE ENCLOSURE - CRYO. STOR. RM. 3522 ENLARGED REFLECTED CEILING PLAN	01/11/22
SKA-502.3	PIPE ENCLOSURE - CRYO. STOR. RM. 3522 OVERVIEW SECTIONS	01/11/22
SKA-502.4	PIPE ENCLOSURE - CRYO. STOR. RM. 3522 ENLARGED SECTION - E/W THROUGH SOFFIT	01/11/22
SKA-502.5	PIPE ENCLOSURE - CRYO. STOR. RM. 3522 ENLARGED SECTION - N/S THROUGH SOFFIT	01/11/22
SKA-502.6	PIPE ENCLOSURE - CRYO. STOR. RM. 3522 INTERIOR RENDERING - RM. 3522	01/11/22
SKA-502.7	PIPE ENCLOSURE - CRYO. STOR. RM. 3522 3D VIEWS	01/11/22

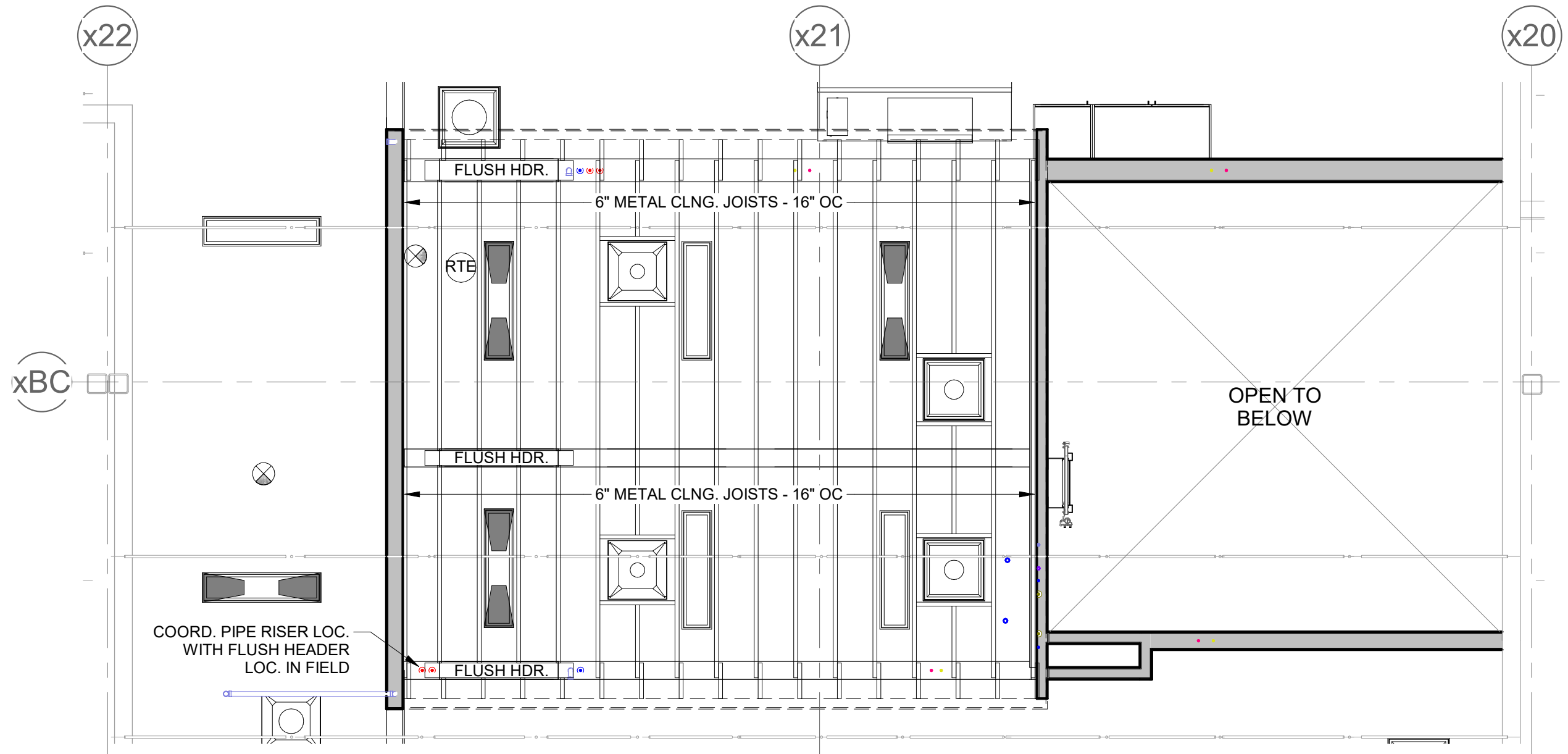
STRUCTURAL

SKS-101.1	PIPE ENCLOSURE - CRYO. STOR. RM. 3522 ENLARGED PLAN VIEWS	01/11/22
SKS-101.2	PIPE ENCLOSURE - CRYO. STOR. RM. 3522 ENLARGED SECTIONS	01/11/22
SKS-101.3	PIPE ENCLOSURE - CRYO. STOR. RM. 3522 CONNECTION DETAILS	01/11/22
SKS-101.4	PIPE ENCLOSURE - CRYO. STOR. RM. 3522 CONNECTION DETAILS	01/11/22

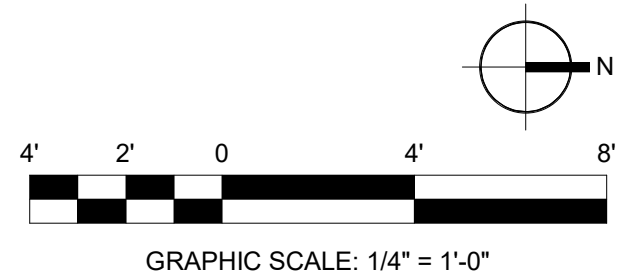
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

0" 1"

BAR IS ONE INCH ON
ORIGINAL DRAWING



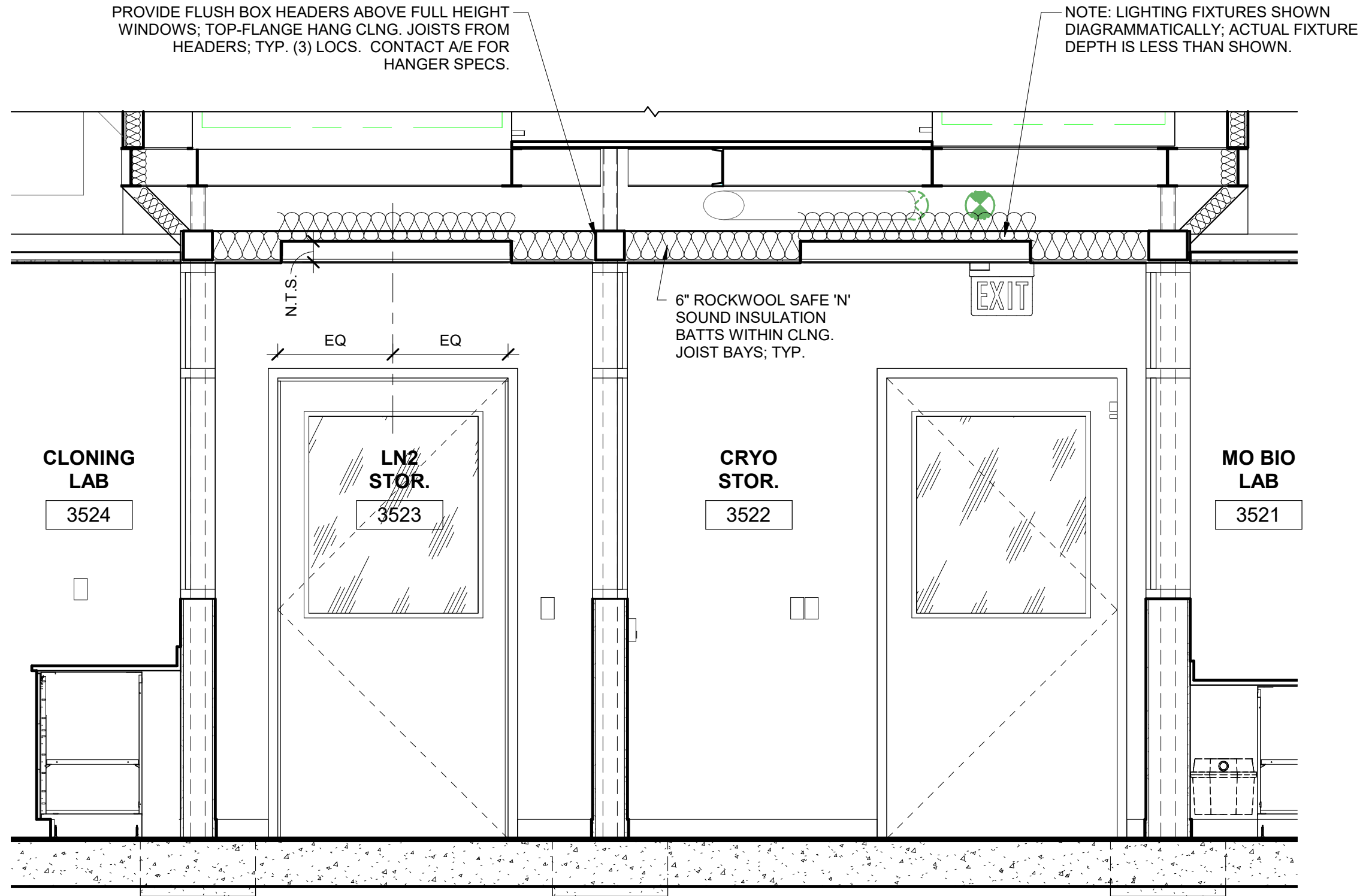
1 ENLARGED CEILING FRAMING PLAN
1/4" = 1'-0"



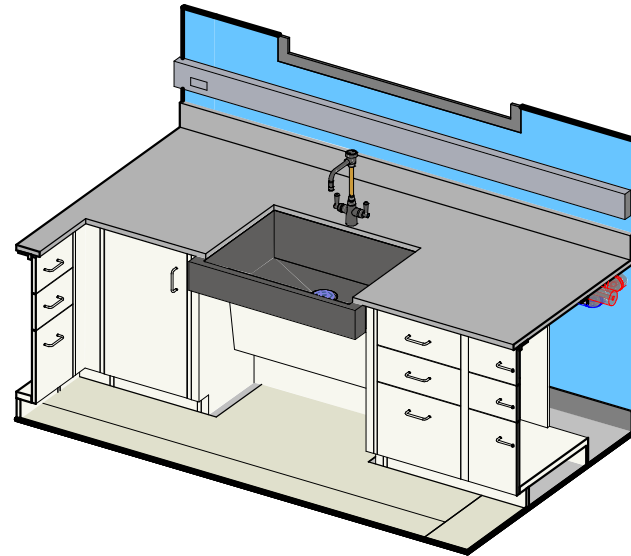
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

0" 1"

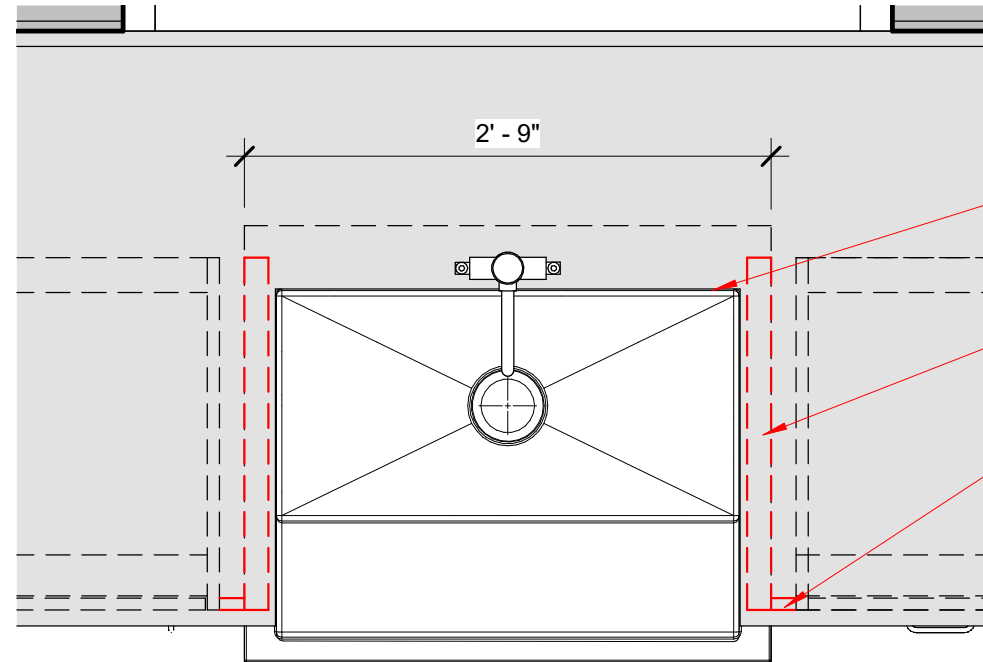
BAR IS ONE INCH ON
ORIGINAL DRAWING



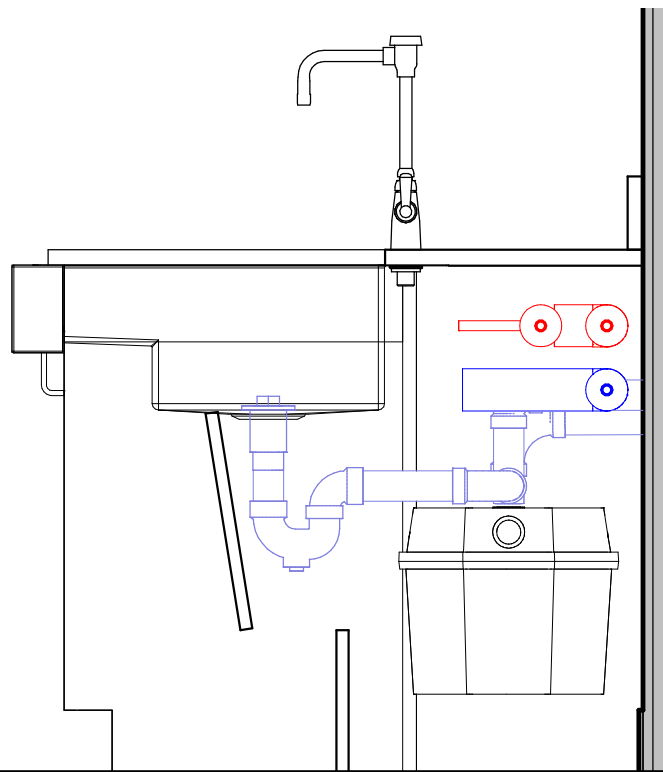
1 ENLARGED SECTION - RMS. 3522 & 3523
1/2" = 1'-0"



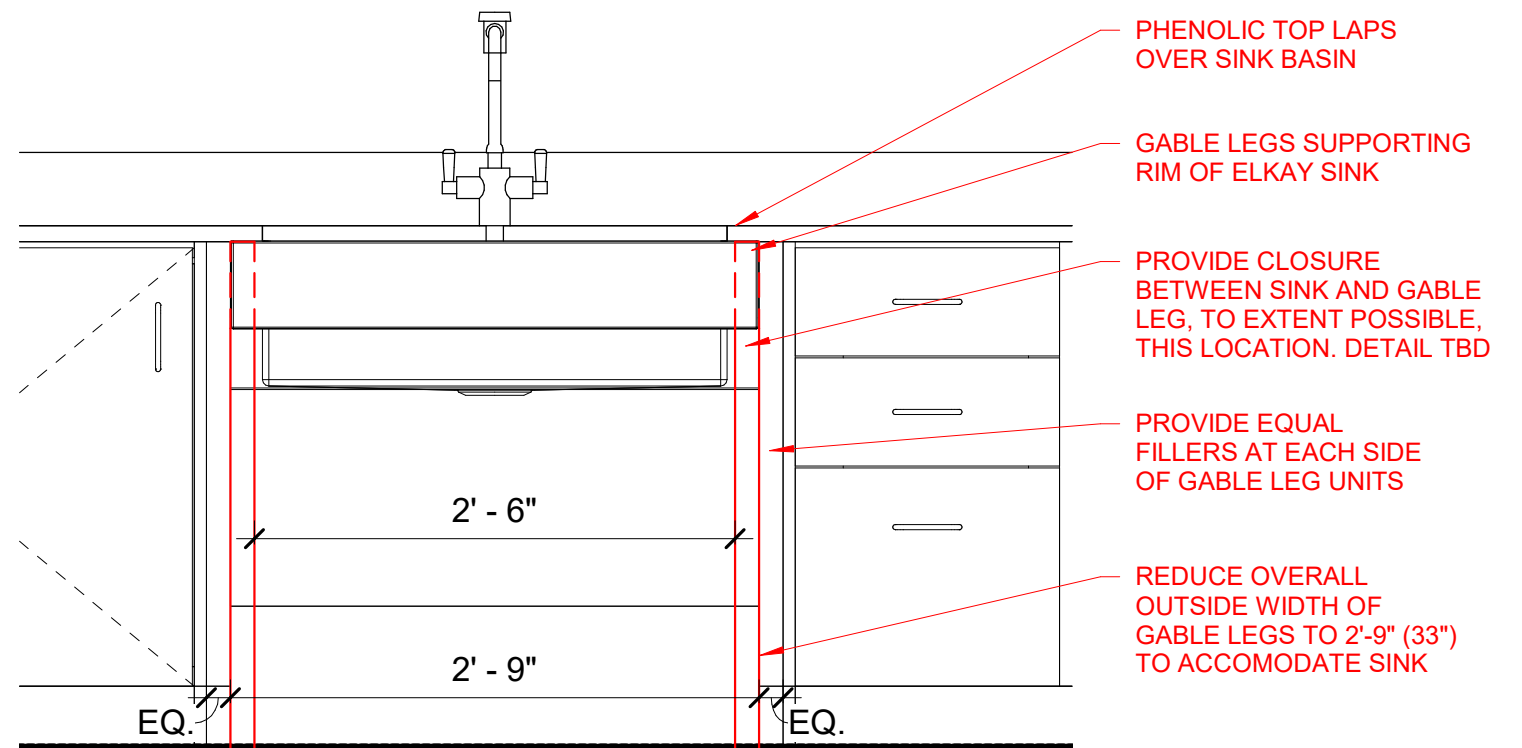
① ADA SINK P-7 - 3D VIEW



② ADA SINK P-7 - TYP. PLAN AT COUNTERTOP
1" = 1'-0"



LEVEL 3
459' - 10"
③ ADA SINK P-7 - TYP. CASEWORK SECTION (RM. 3540 SHOWN)
1" = 1'-0"



④ ADA SINK P-7 - TYP. CASEWORK ELEV.
1" = 1'-0"

IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

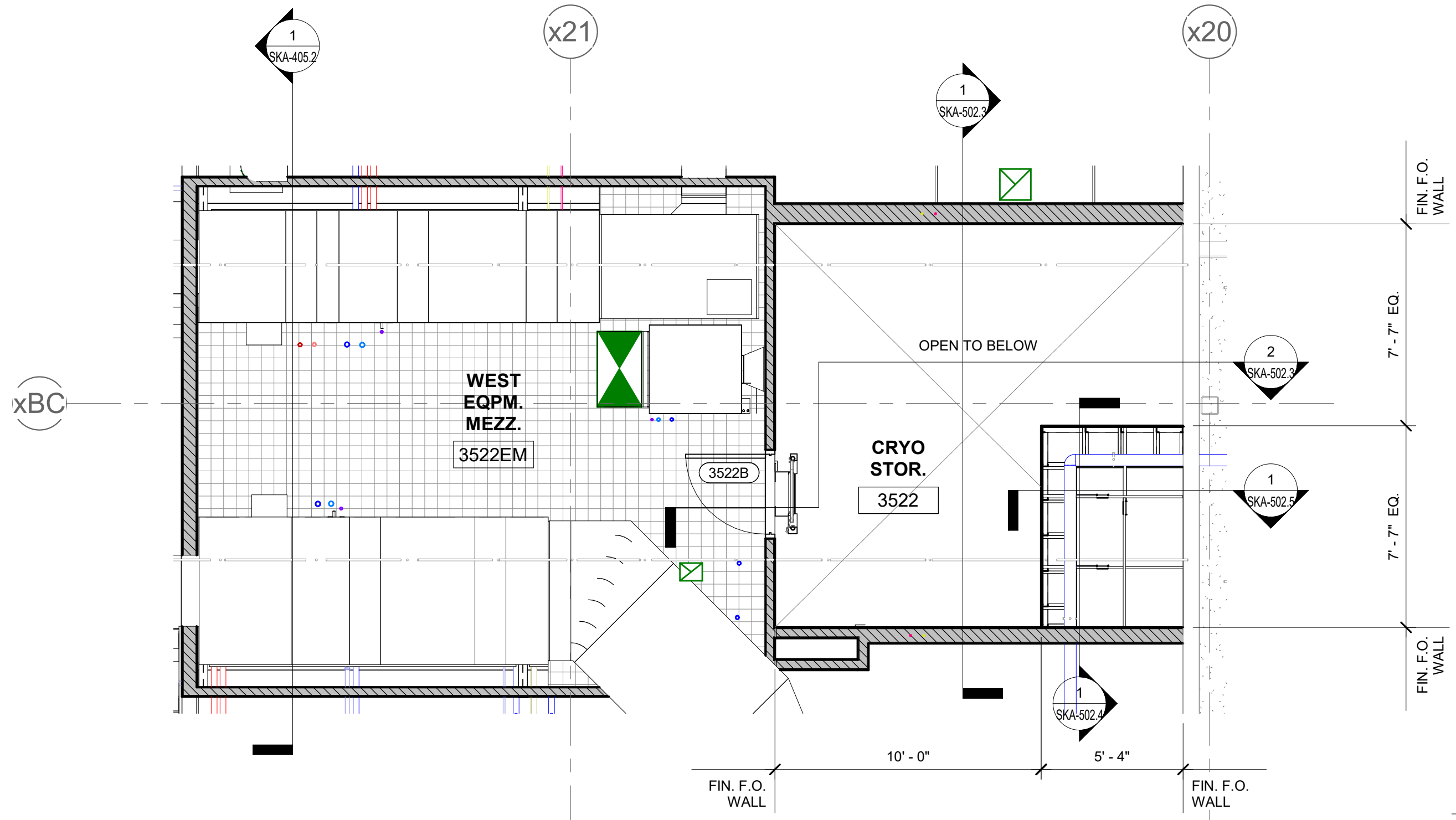
0" 1"

BAR IS ONE INCH ON
ORIGINAL DRAWING

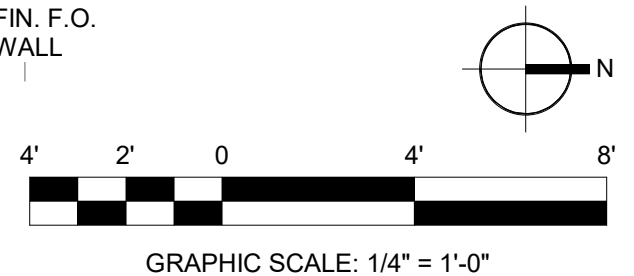
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

0" 1"

BAR IS ONE INCH ON
ORIGINAL DRAWING



① ENLARGED FLOOR PLAN AT MEZZANINE LEVEL - RM. 3522
1/4" = 1'-0"



IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

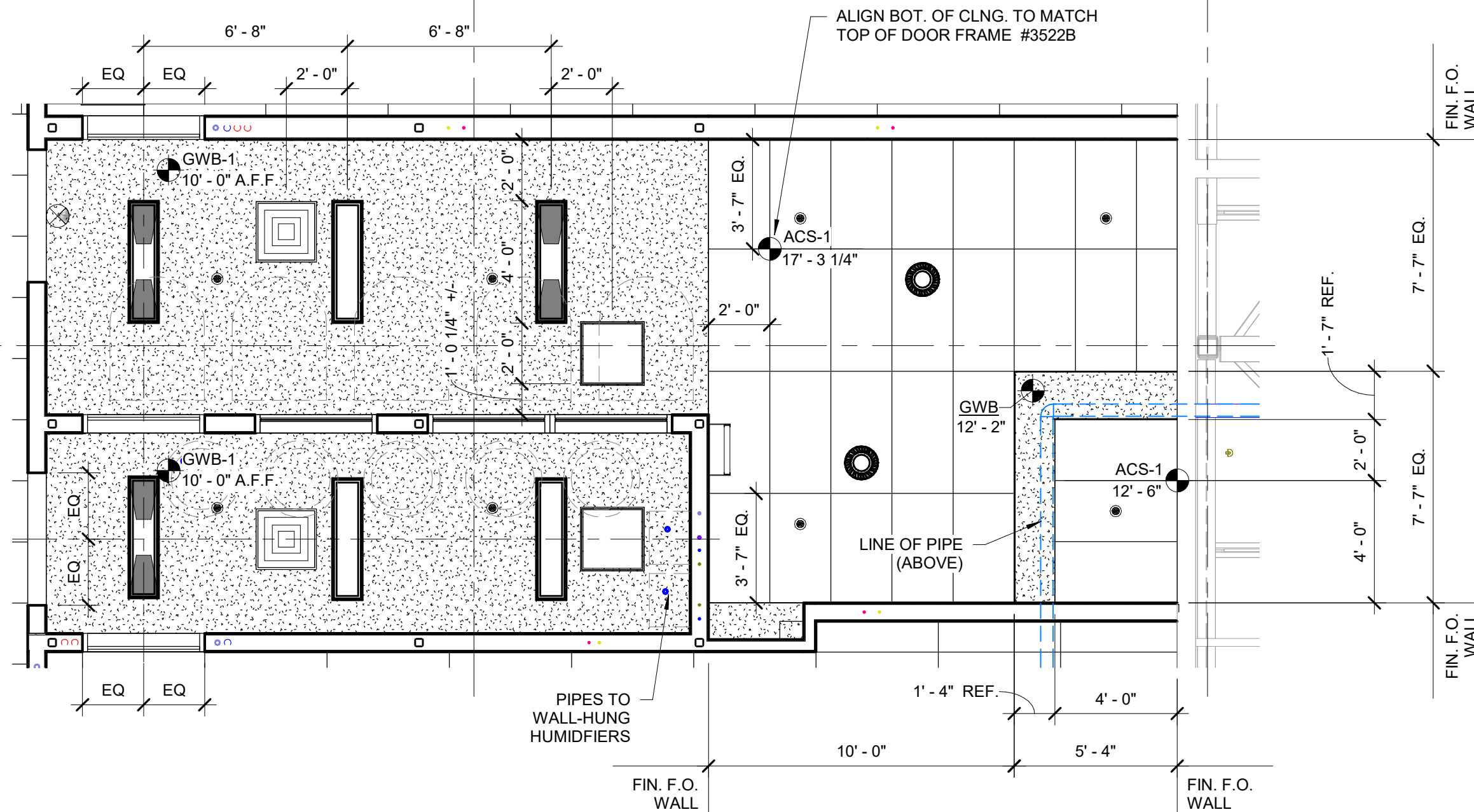
0" 1"

BAR IS ONE INCH ON
ORIGINAL DRAWING

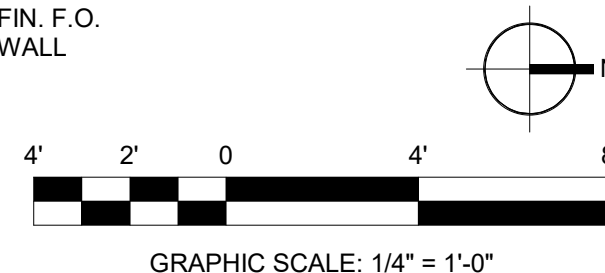
xBC

x21

x20



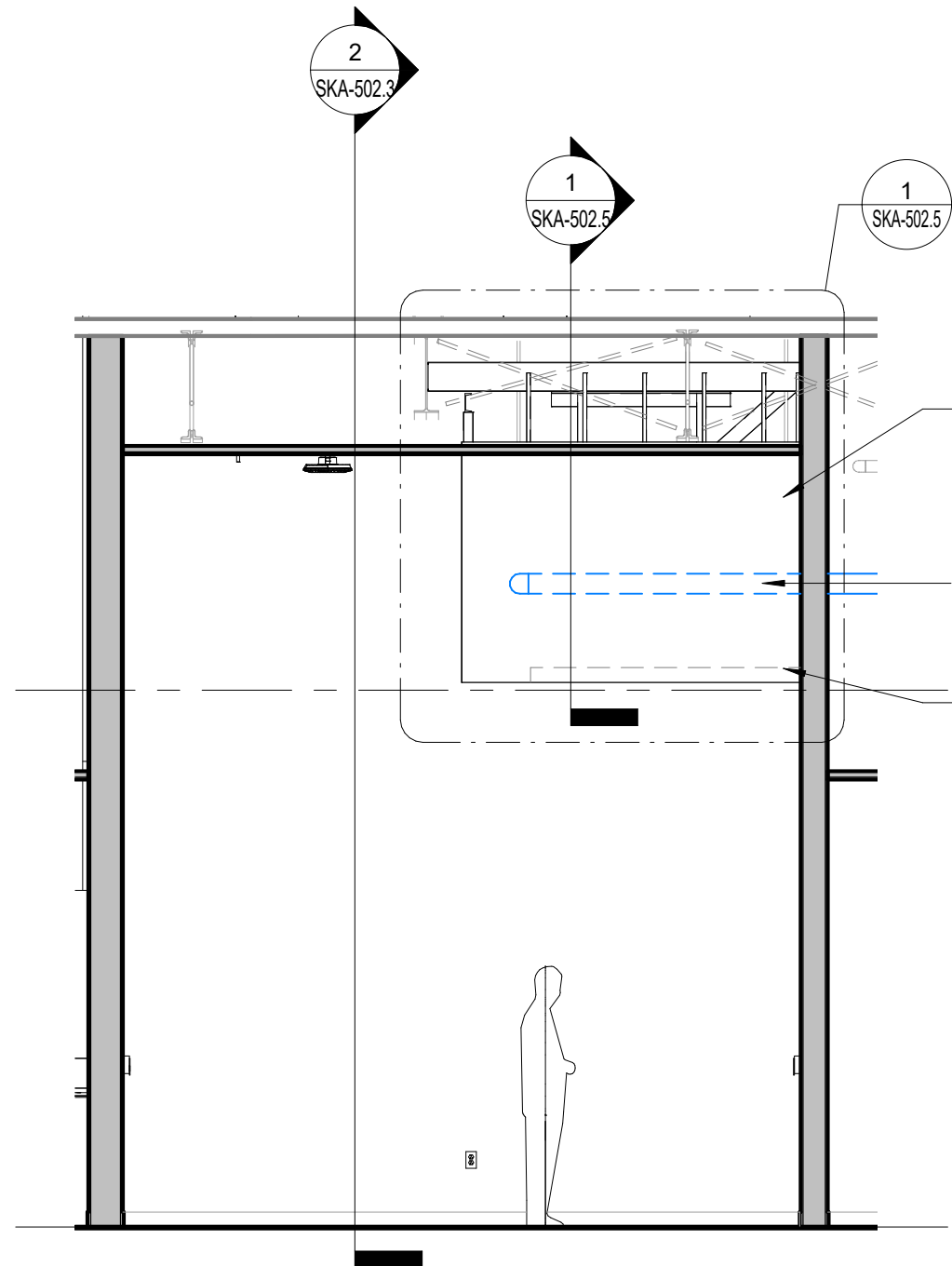
1 ENLARGED REFLECTED CEILING PLAN - RM. 3522
1/4" = 1'-0"



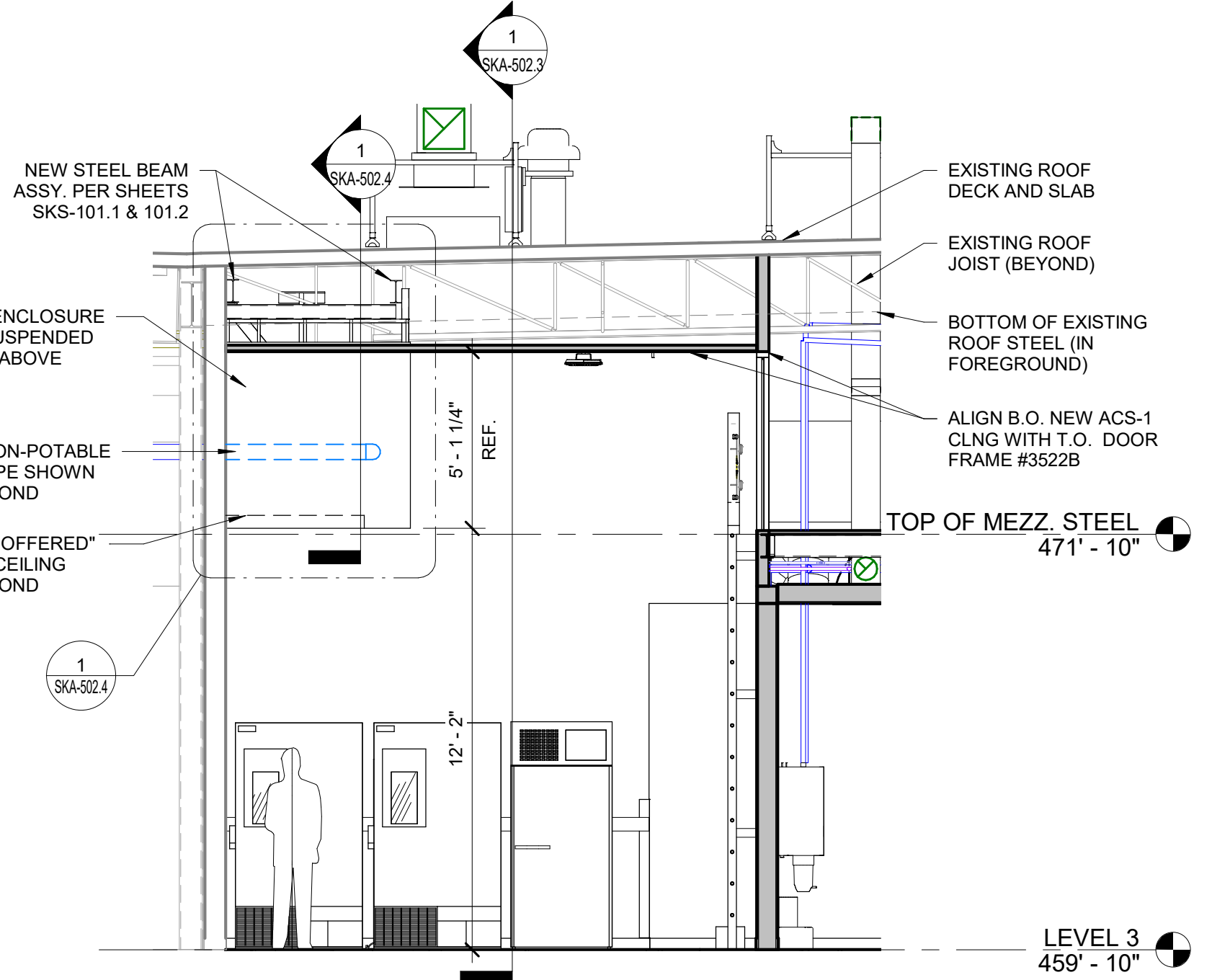
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

0" 1"

BAR IS ONE INCH ON
ORIGINAL DRAWING



① OVERVIEW SECTION - E/W THROUGH RM. 3522
1/4" = 1'-0"



② OVERVIEW SECTION - N/S THROUGH RM. 3522
1/4" = 1'-0"



GRAPHIC SCALE: 1/4" = 1'-0"

IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

0" 1"

BAR IS ONE INCH ON
ORIGINAL DRAWING

FASTEN NEW STEEL BEAMS TO EXISTING
ROOF STEEL PER STRUCTURAL DETAILS. SEE
SHEETS SKS-101.1 & 101.2 FOR ADDN'L INFO.

1
SKA-502.5

ROUTE STEEL BEAMS
THROUGH ROOF JOIST
BAY OPENINGS

NEW STEEL BEAMS PER
STRUCTURAL DETAILS - SEE
SHEETS SKS-101.1 & 101.2

NEW BEAMS
SUPPORTED THIS
END WITHIN WALL
(NOT SHOWN)

NEW DIAGONAL
BRACING

DIAGONAL BRACING
FROM SOUTH
SOFFIT FACE (IN
FOREGROUND) UP
TO EXISTING
NORTH WALL
BEYOND

LINE OF EXIST.
NON-POTABLE
WATER PIPE (IN
FOREGROUND)

NEW "COFFERED"
ACS-1 CEILING

17' - 3 1/4"

2 1/2" METAL STUDS

1/2" ULTRA-LIGHT GWB.,
PAINTED & FINISHED PER SPECS

EXISTING NON-POTABLE WATER PIPE

NEW DIAGONAL BRACING

DIAGONAL BRACING UP TO
EXISTING WALL

SOFFIT FRAMING

5' - 1 1/4" REF.

12' - 2"

1' - 7"
REF.

12' - 6"



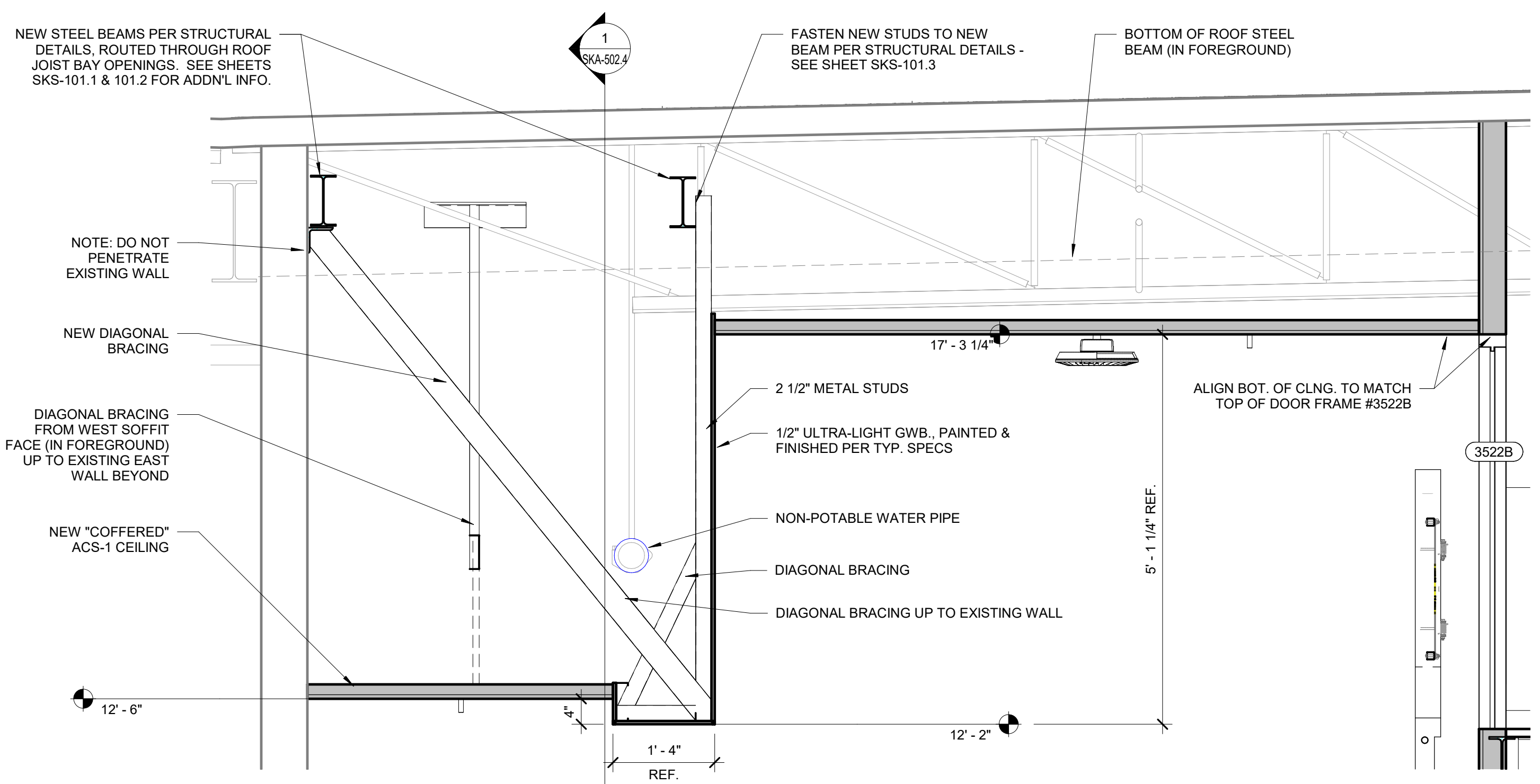
GRAPHIC SCALE: 3/4" = 1'-0"

1 ENLARGED SECTION - E/W THROUGH SOFFIT
3/4" = 1'-0"

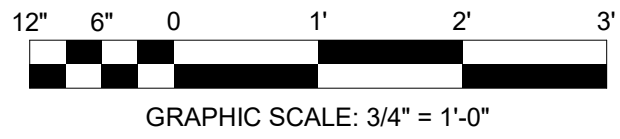
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY


0" 1"

BAR IS ONE INCH ON ORIGINAL DRAWING



1 ENLARGED SECTION - N/S THROUGH SOFFIT
3/4" = 1'-0"



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CUMBERLAND, RI 02864 | F: (401) 658-4609
A MEMBER OF THE HART COMPANIES | WWW.HARTCOMPANIES.COM

 **cytiva**
100 RESULTS WAY
MARLBOROUGH, MA 01752

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PROJ. NO.	20021A
DRAWN	AB
CHK.	DC
APPD.	DC

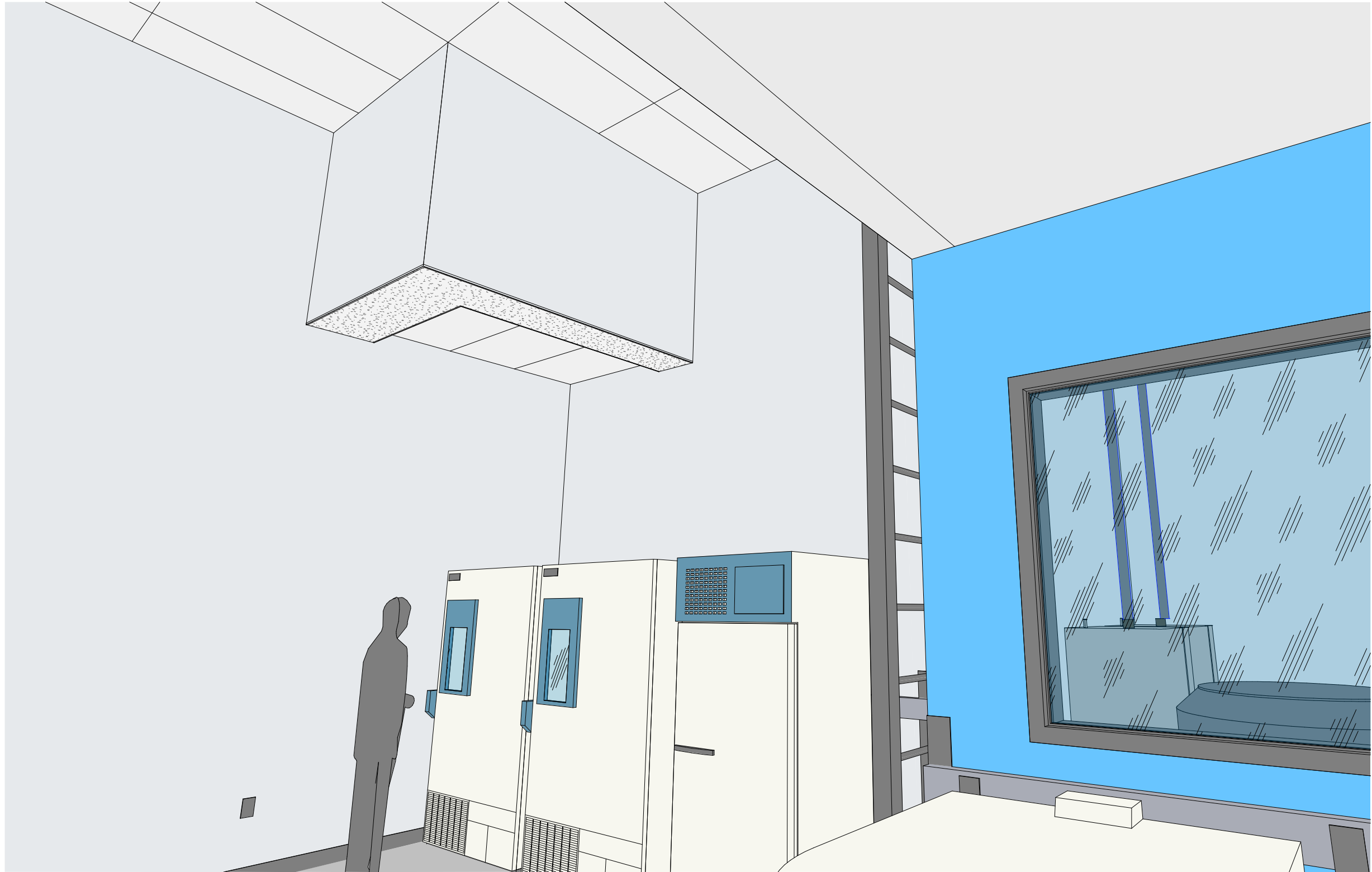
CLD & CCM LABS
ARCHITECTURAL
PIPE ENCLOSURE - CRYO. STOR. RM. 3522
ENLARGED SECTION - N/S THROUGH SOFFIT
ISSUED FOR BULLETIN 1

ISSUE DATE:	01/11/22
SCALE:	3/4" = 1'-0"
SHEET NUMBER	SKA-502.5

IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

0" — 1"

BAR IS ONE INCH ON
ORIGINAL DRAWING

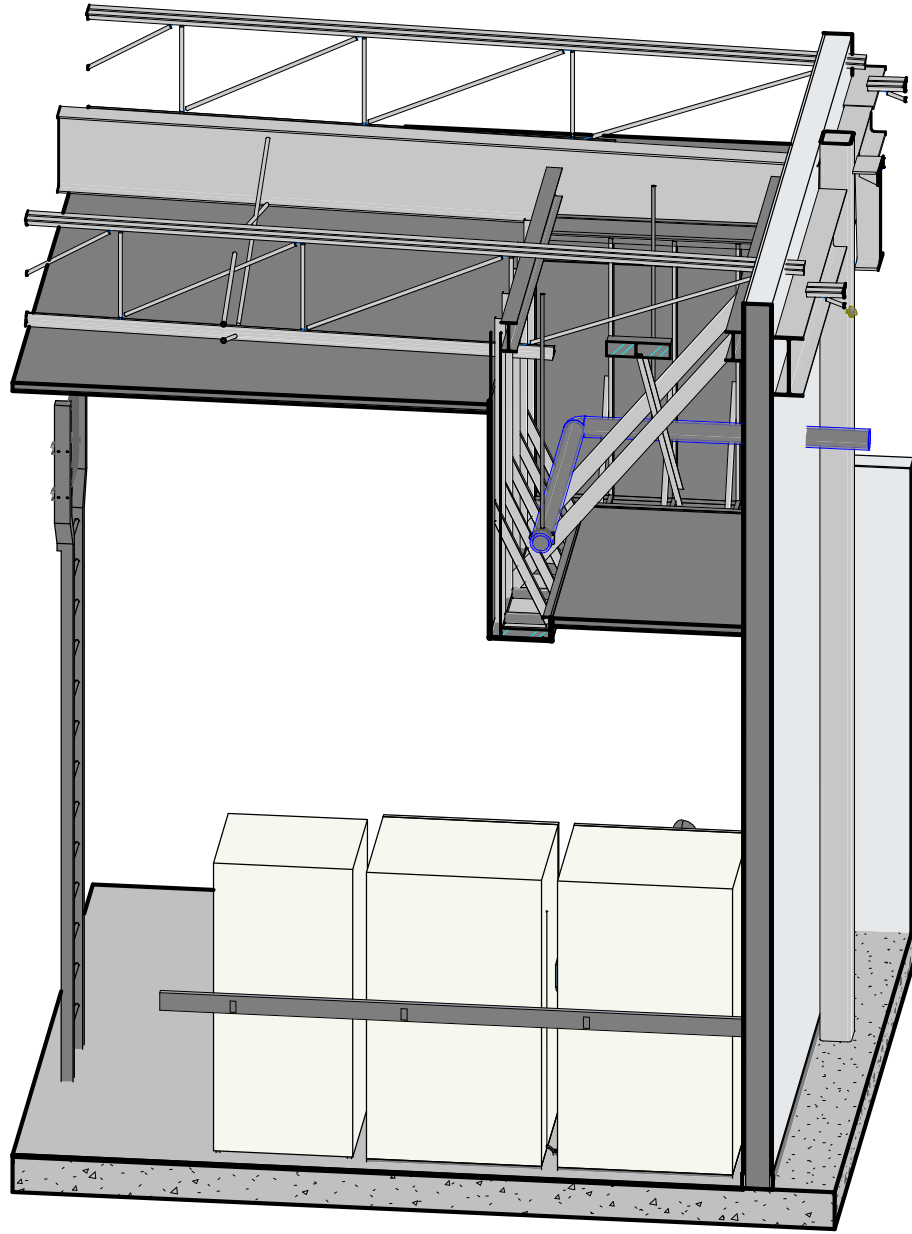


① INTERIOR RENDERING - RM. 3522

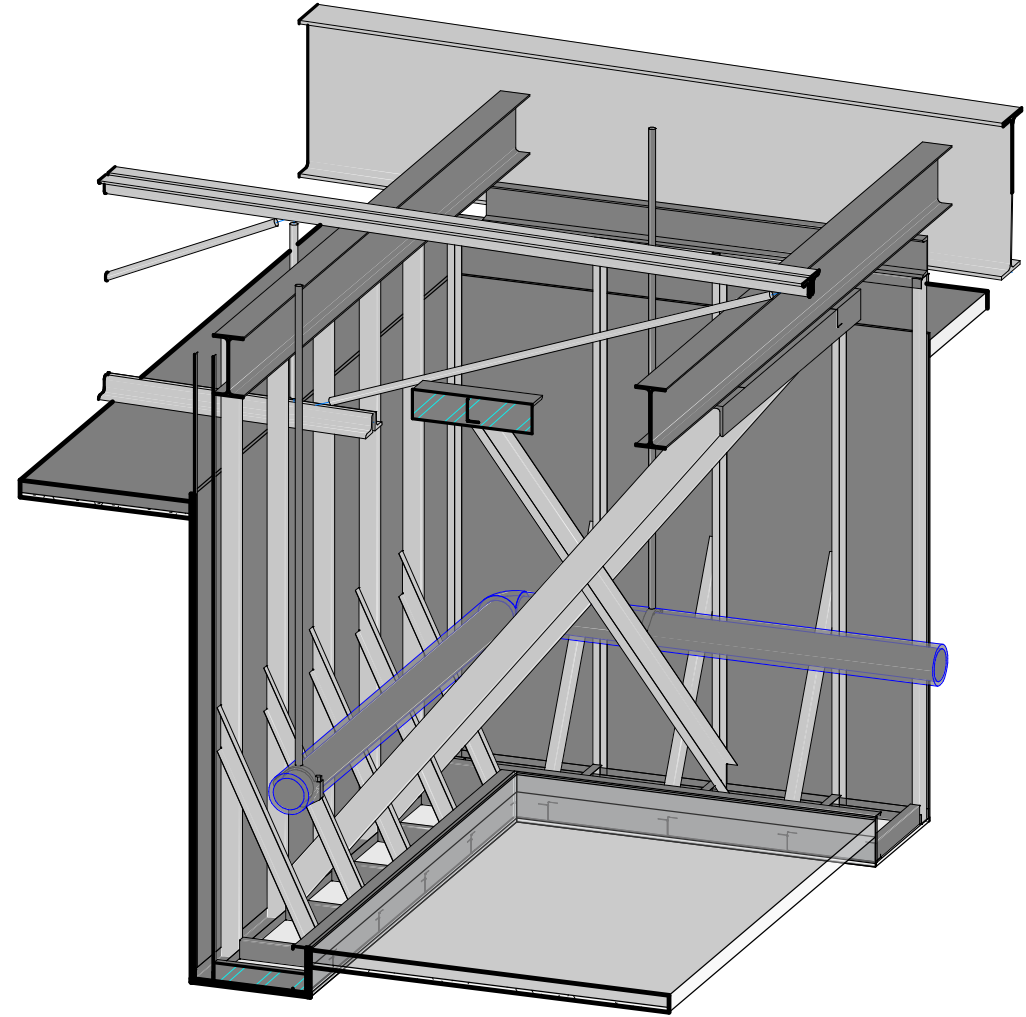
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

0" — 1"

BAR IS ONE INCH ON
ORIGINAL DRAWING



① 3D VIEW: RM. 3522 - CRYO. STOR.



② 3D VIEW - INTERIOR FRAMING - PIPE ENCLOSURE - RM. 3522

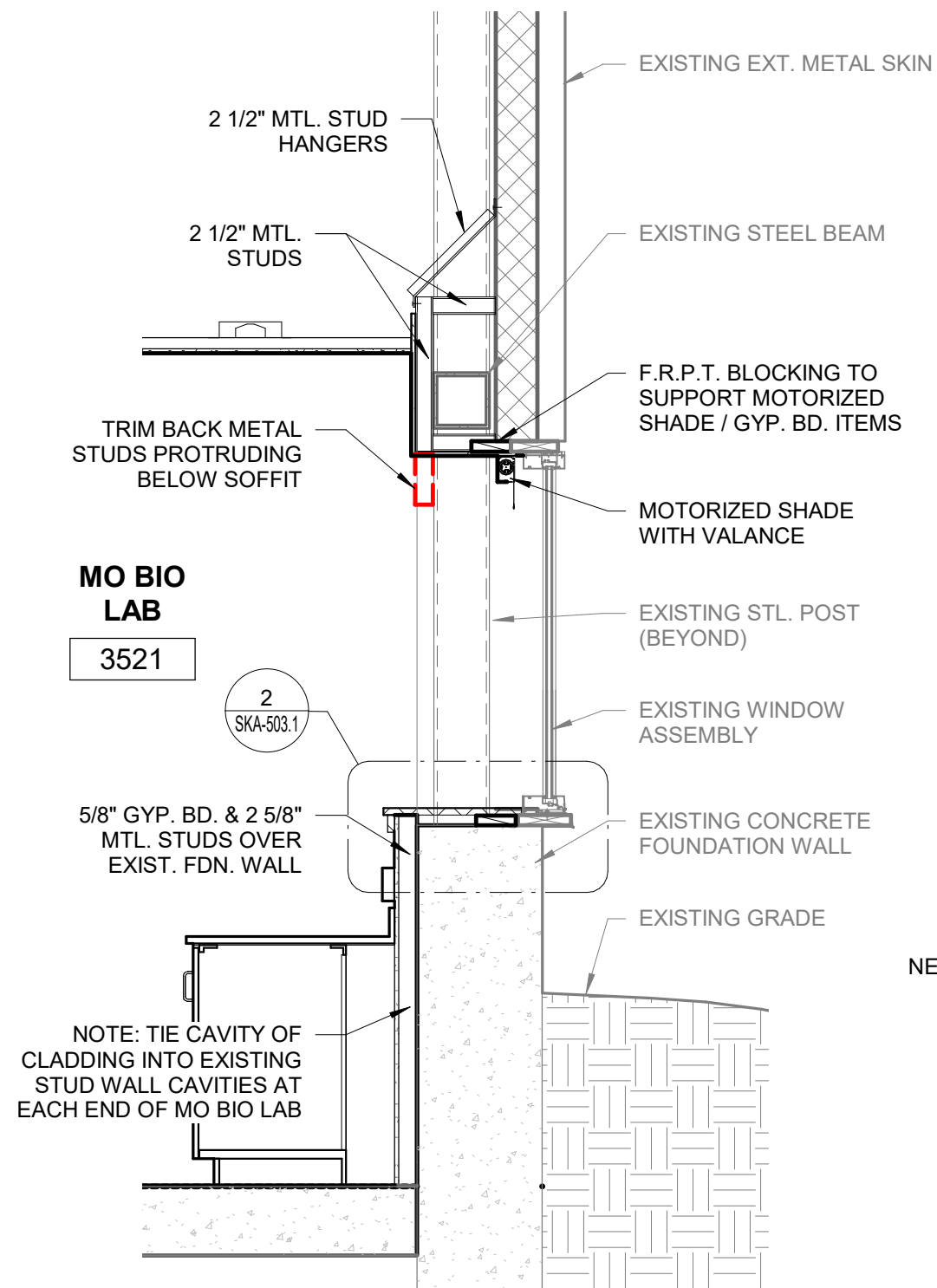
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

BAR IS ONE INCH ON
ORIGINAL DRAWING

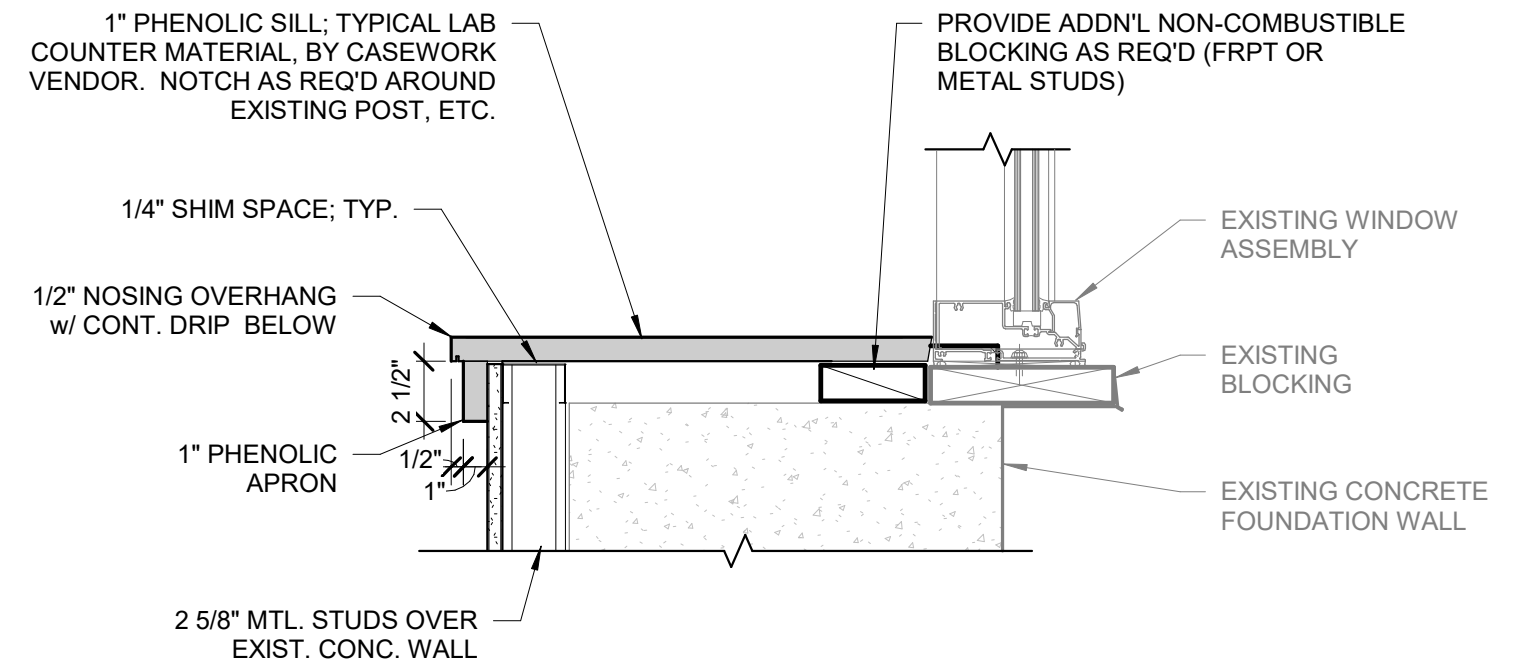
**MO BIO
LAB**

3521

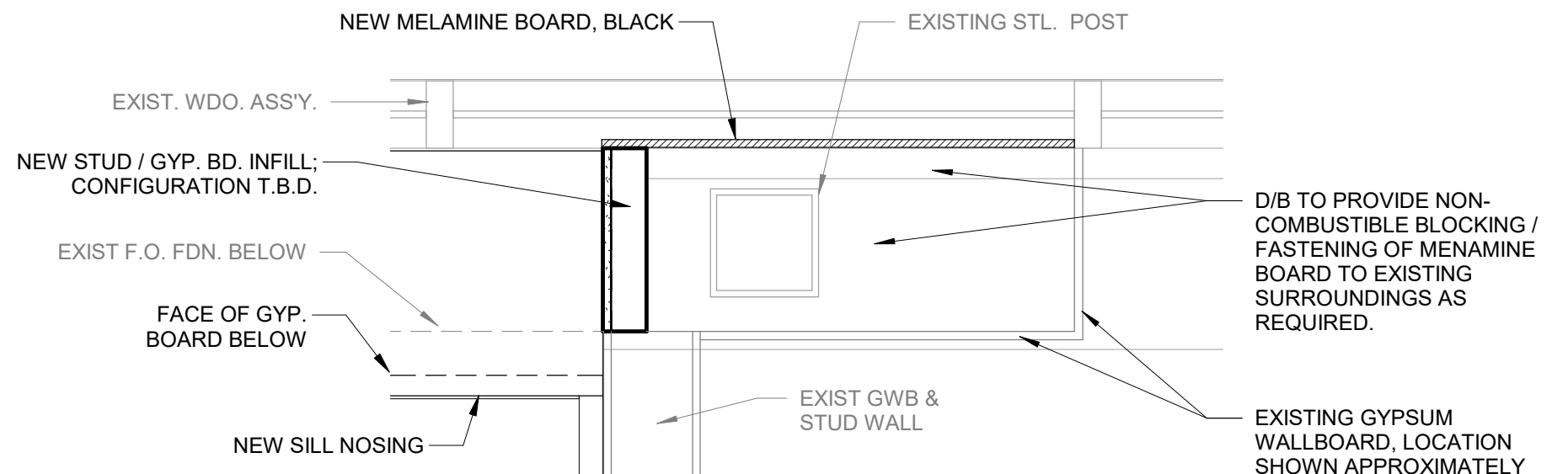
2
SKA-503.1



① **REVISED WALL SECTION - MO. BIO LAB - EXT. WALL**
1/2" = 1'-0"



② **REVISED WINDOW SILL DETAIL - MO. BIO LAB**
1 1/2" = 1'-0"

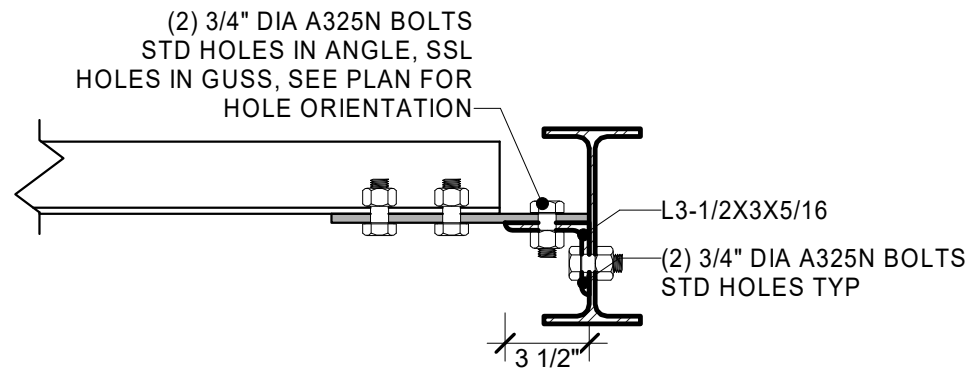


③ **PLAN DETAIL - WALL CLOSURE**
1" = 1'-0"

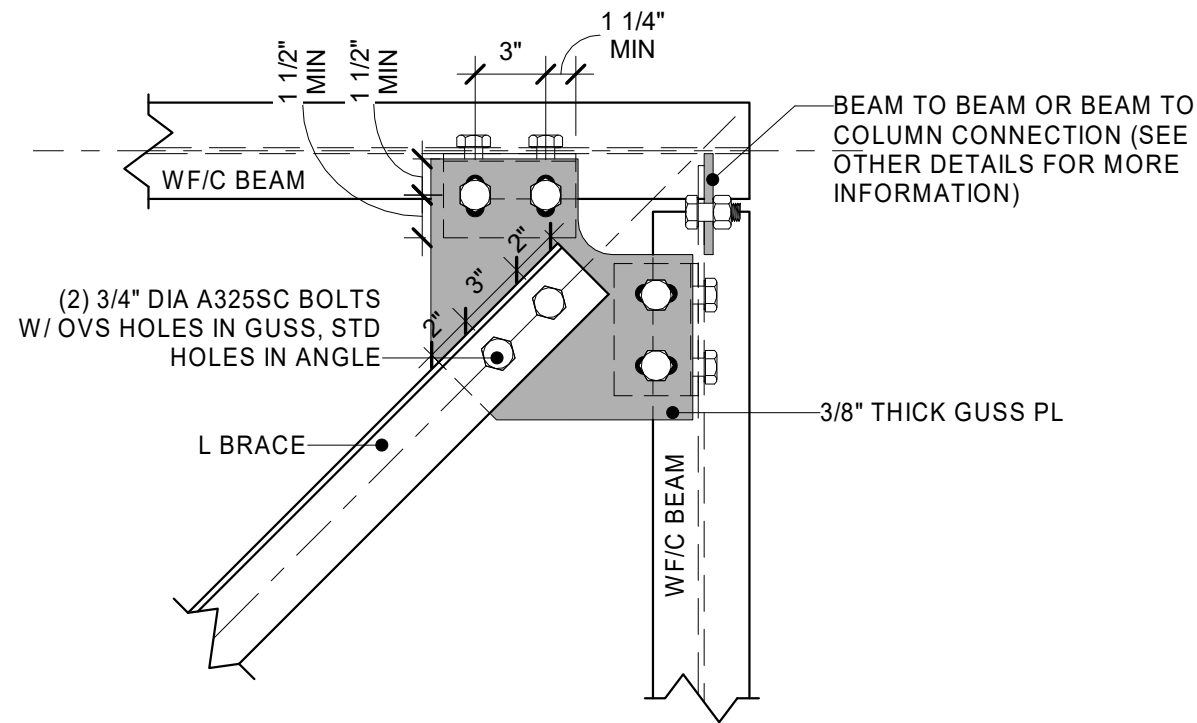
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

1"
0"

BAR IS ONE INCH ON
ORIGINAL DRAWING



SECTION



PLAN

BRACE TO BEAM CONNEX AT
INTERSECTION

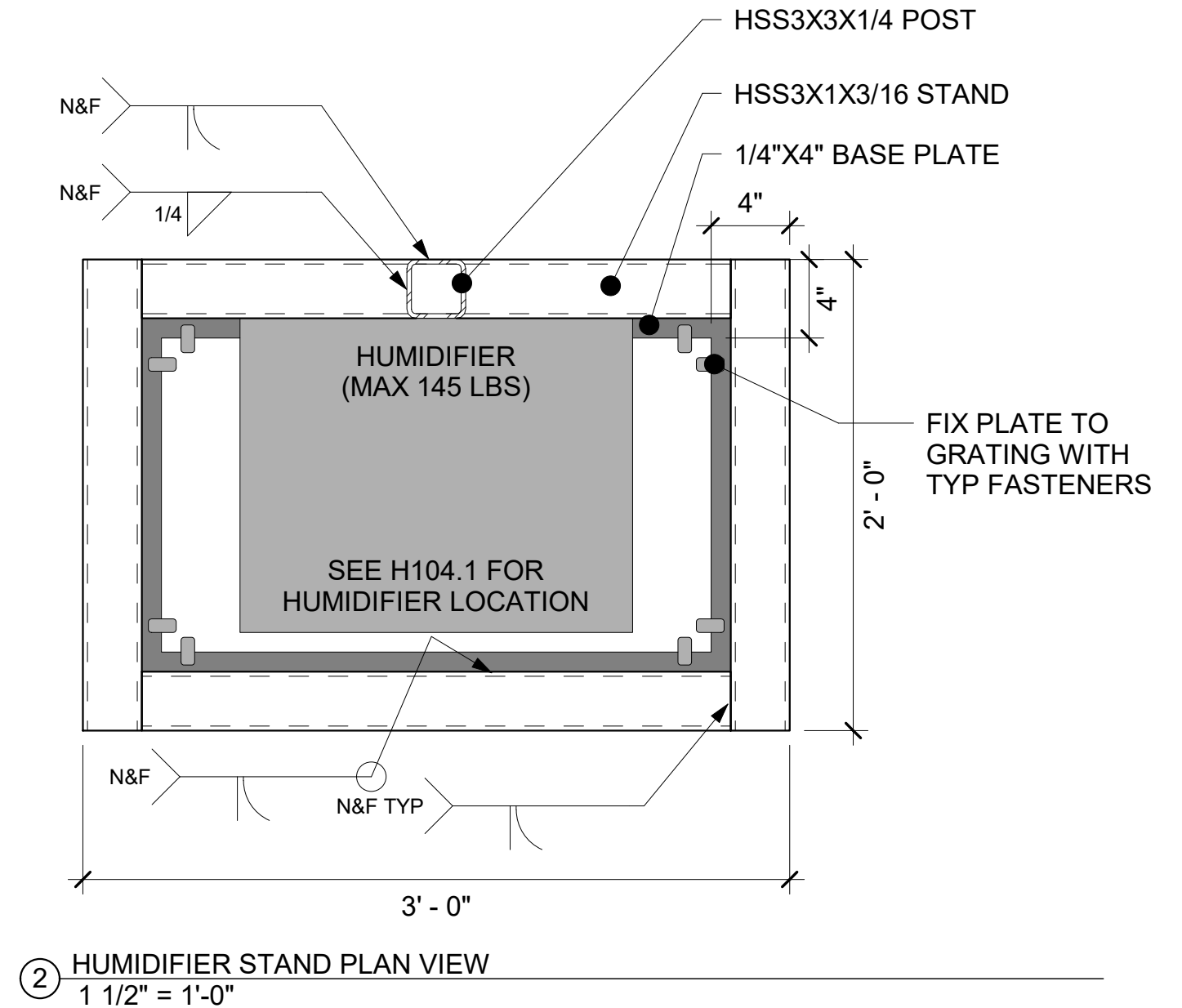
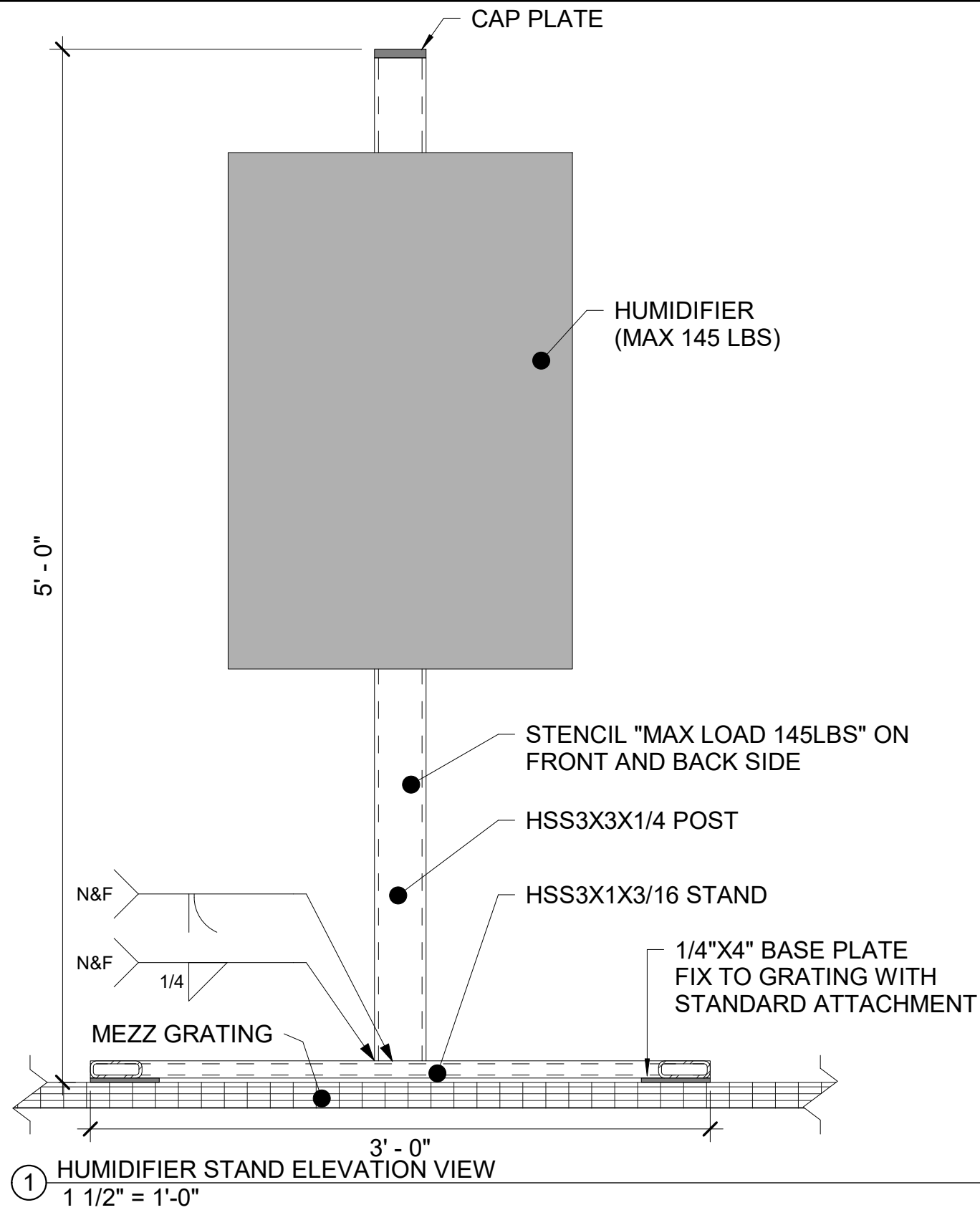
1

1 1/2" = 1'-0"

IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

0" 1"

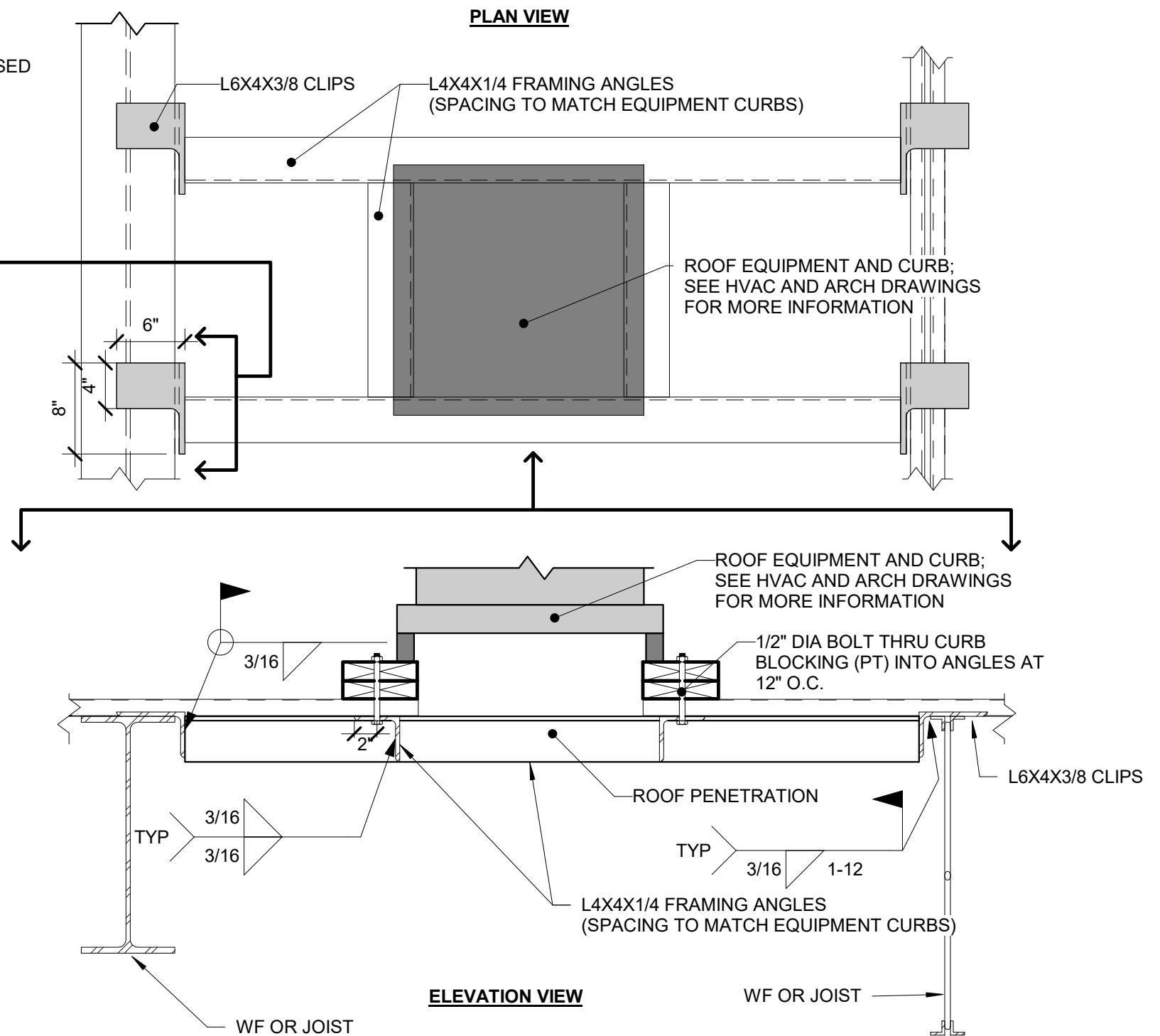
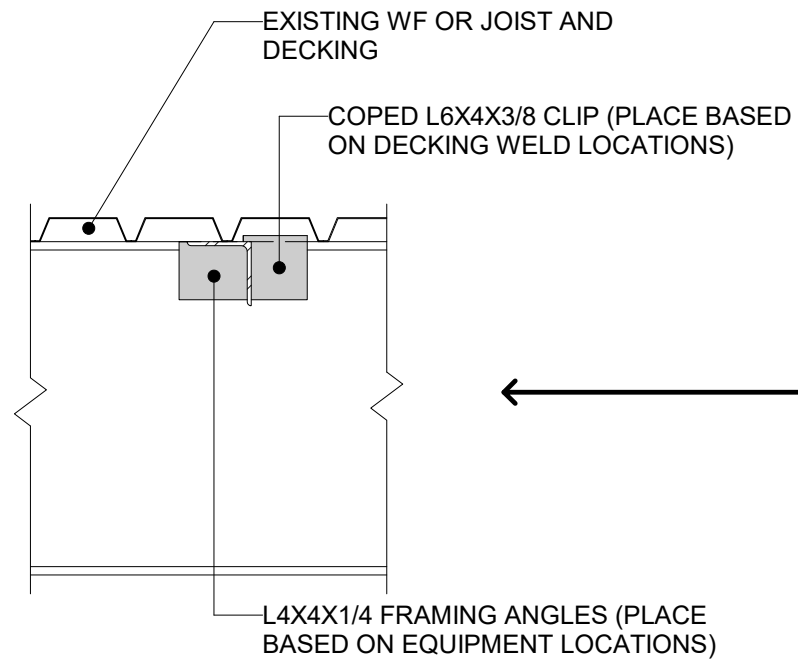
BAR IS ONE INCH ON
ORIGINAL DRAWING



IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

0" 1"

BAR IS ONE INCH ON
ORIGINAL DRAWING

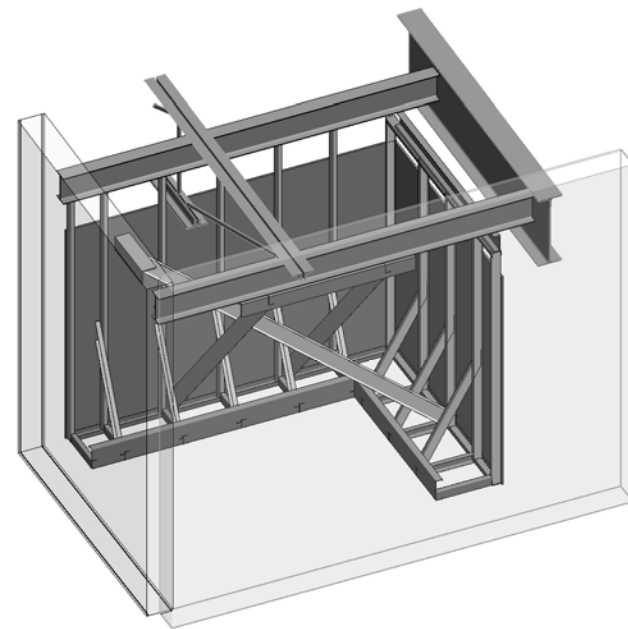


① MODIFIED ROOF PENETRATION DETAIL
1" = 1'-0"

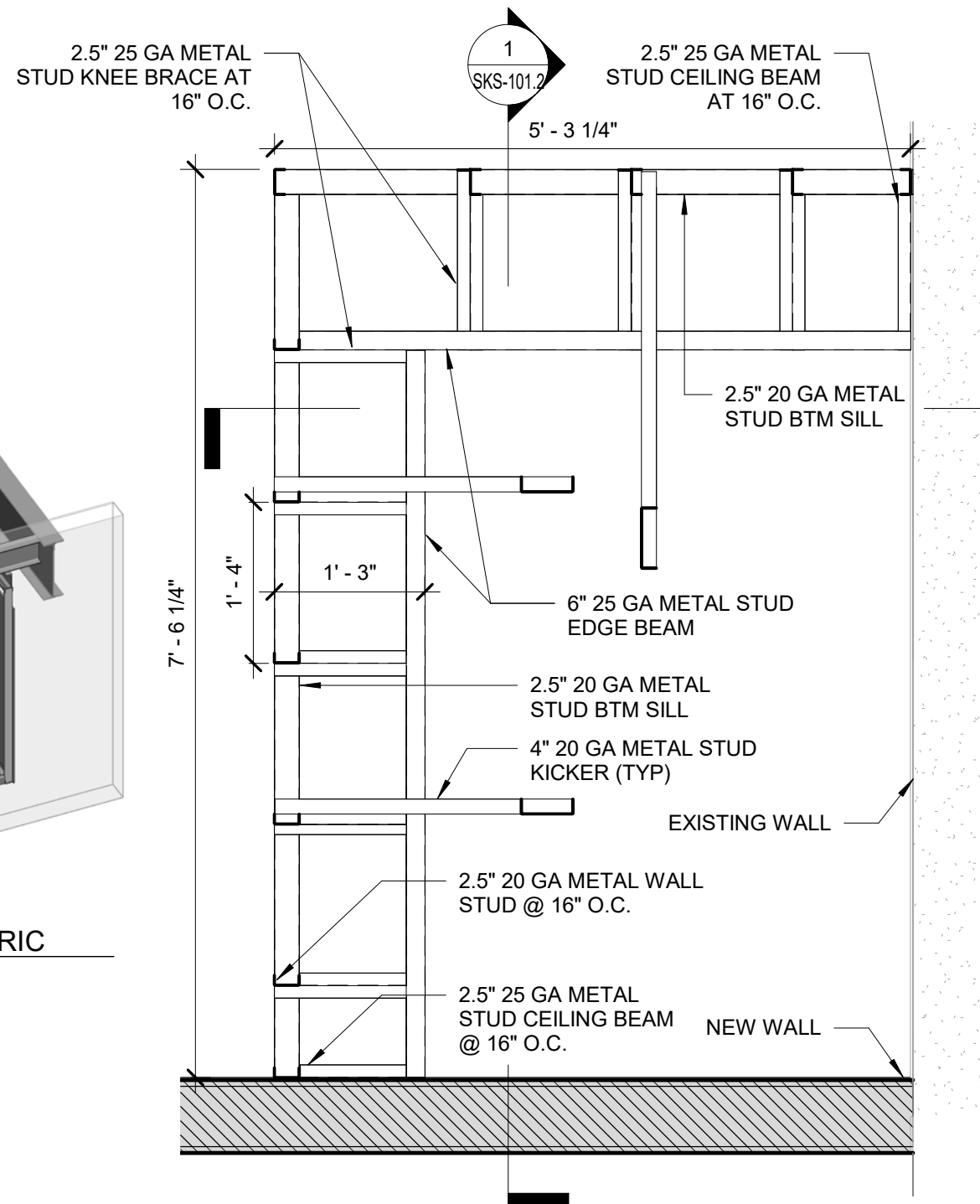
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

0" 1"

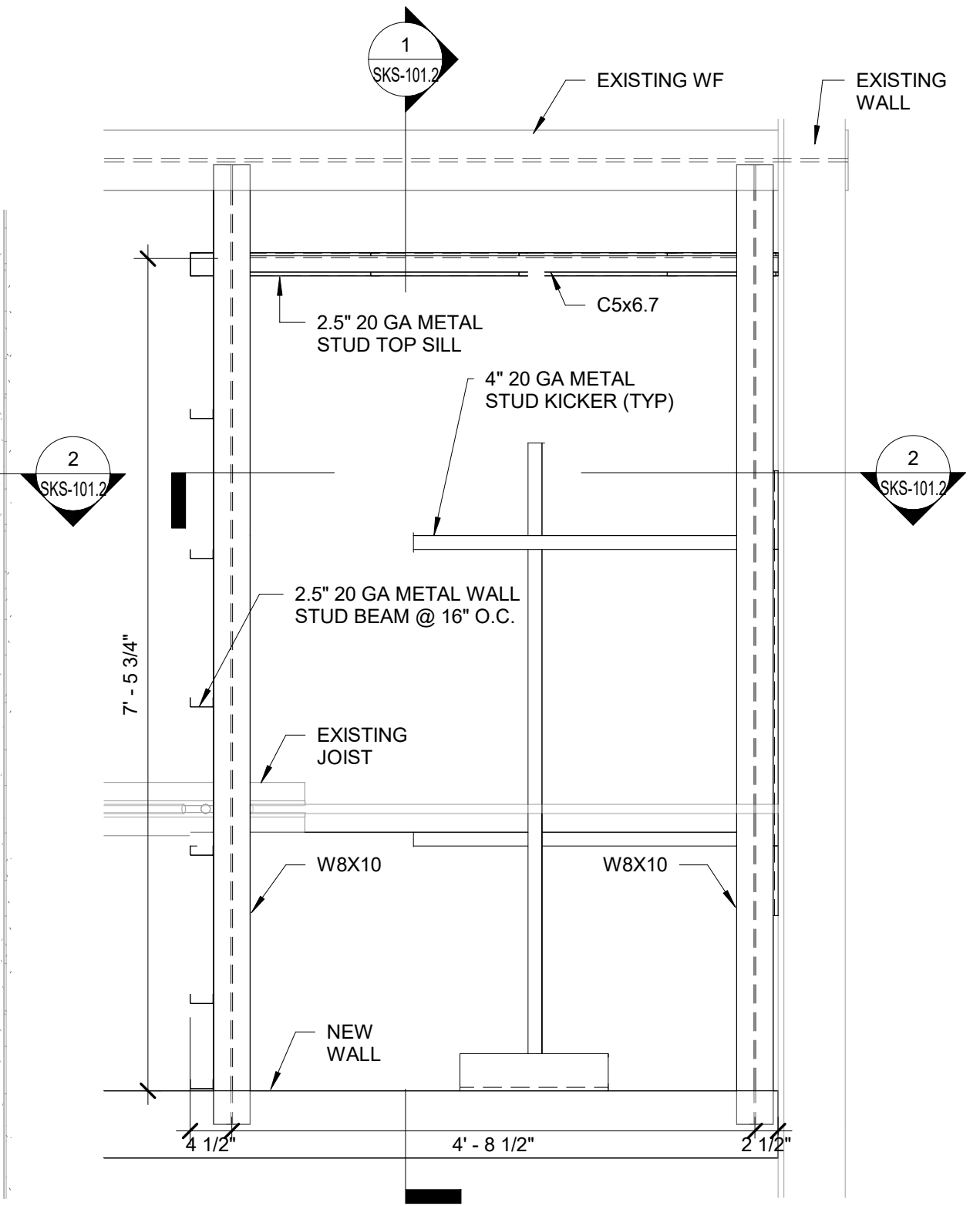
BAR IS ONE INCH ON
ORIGINAL DRAWING



③ STRUCTURAL ISOMETRIC



① PLAN AT LOW STEEL AT PIPE ENCLOSURE
3/4" = 1'-0"

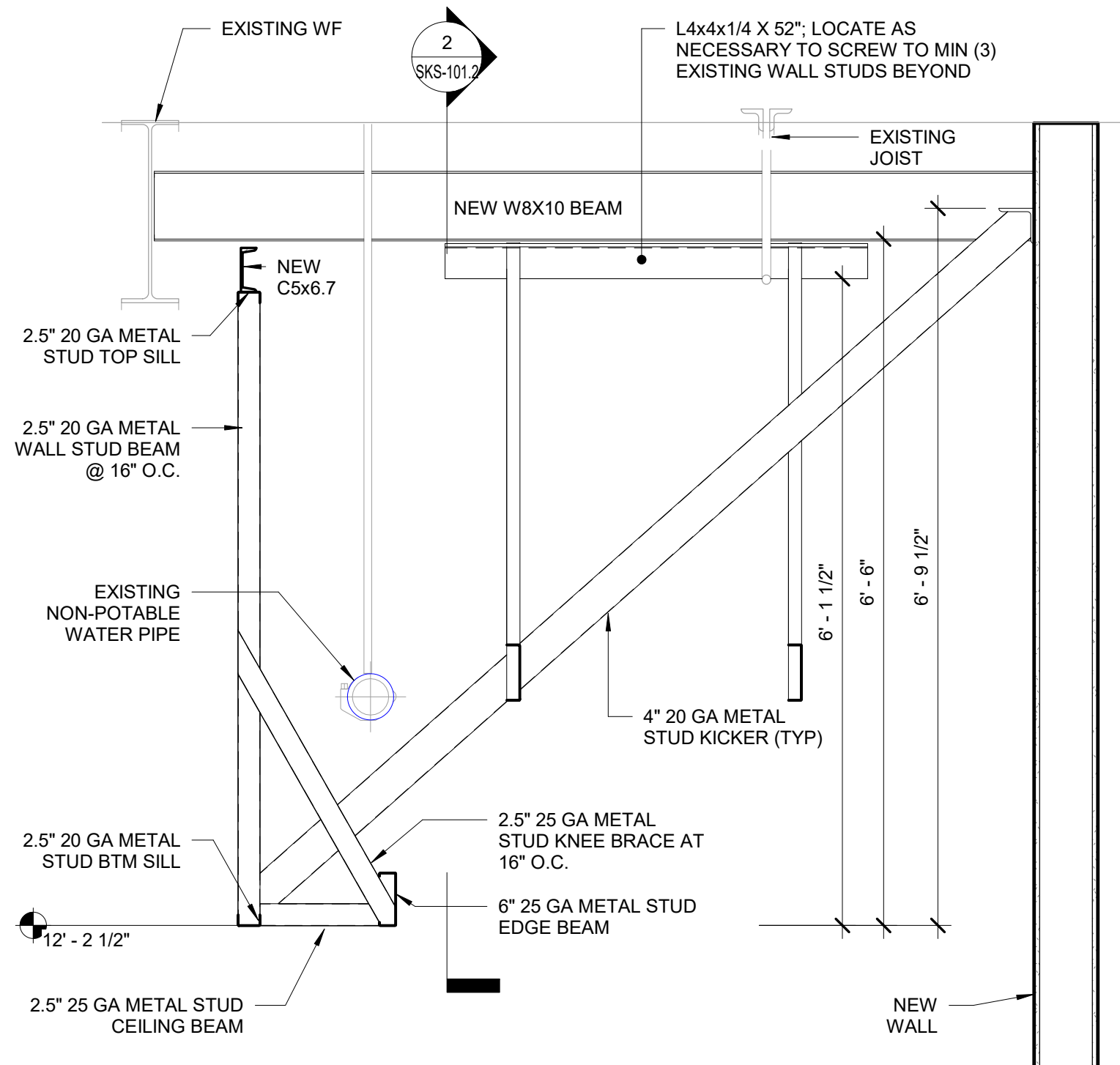


② PLAN AT HIGH STEEL AT PIPE ENCLOSURE
3/4" = 1'-0"

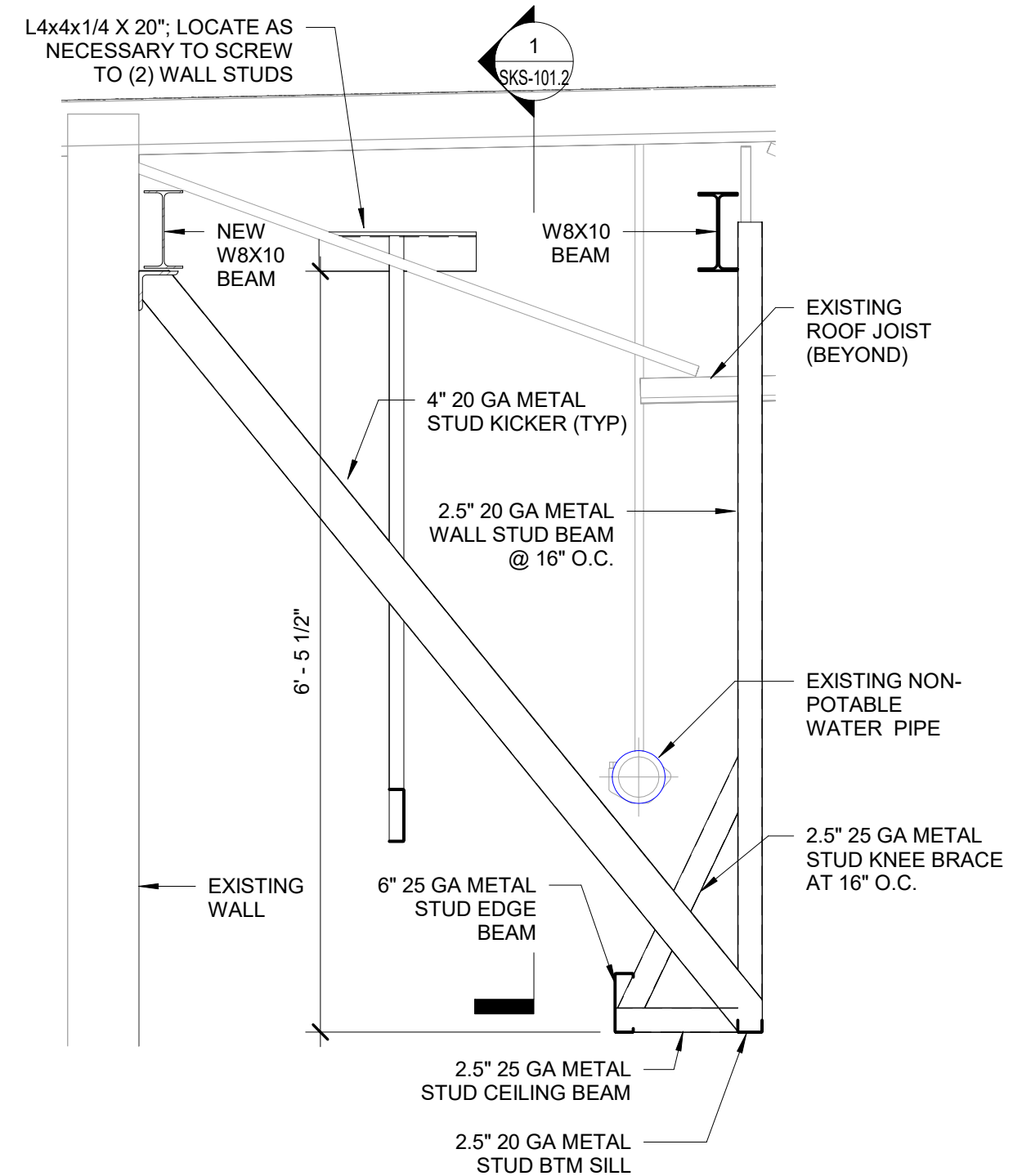
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

0" 1"

BAR IS ONE INCH ON
ORIGINAL DRAWING



① N-S SECTION AT PIPE ENCLOSURE
3/4" = 1'-0"

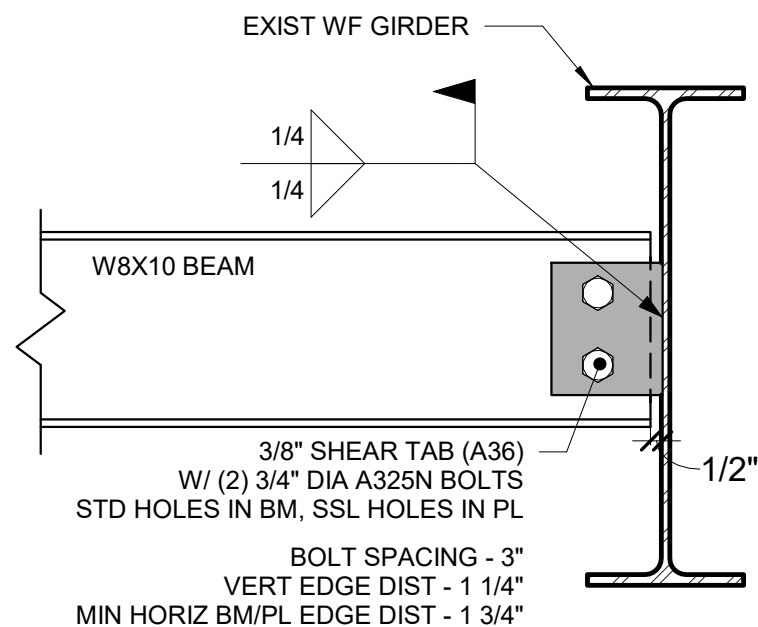


② E-W SECTION AT PIPE ENCLOSURE
3/4" = 1'-0"

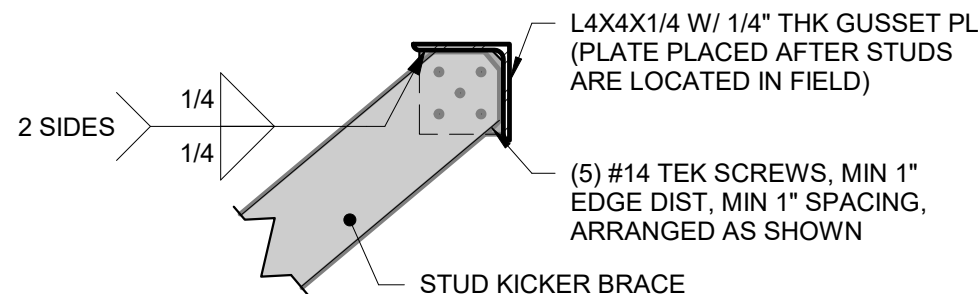
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

0" 1"

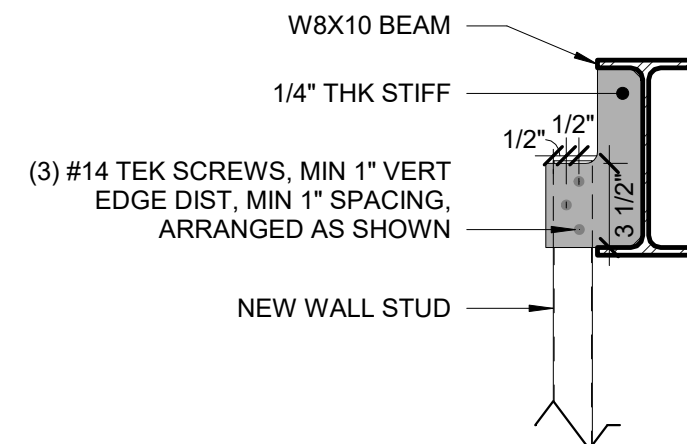
BAR IS ONE INCH ON ORIGINAL DRAWING



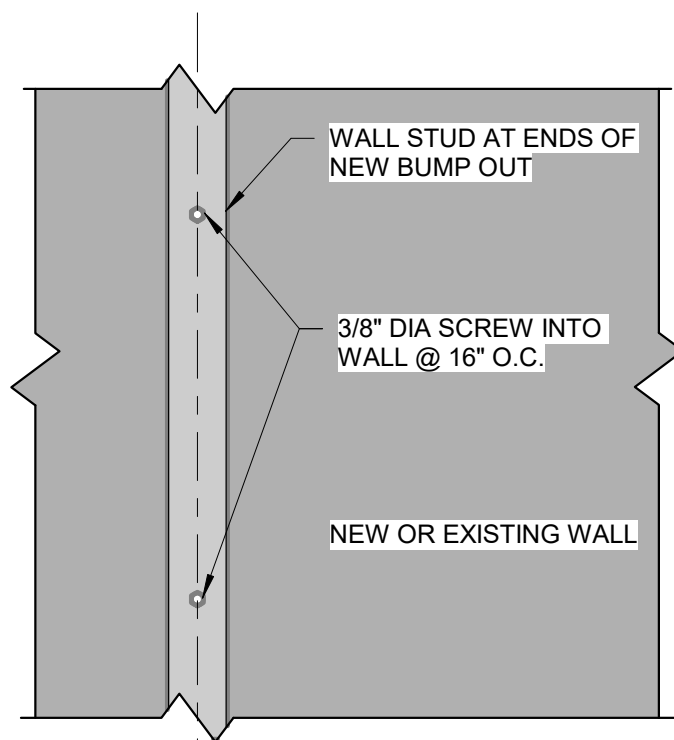
① STEEL BEAM TO EXIST BEAM CONNEX
1 1/2" = 1'-0"



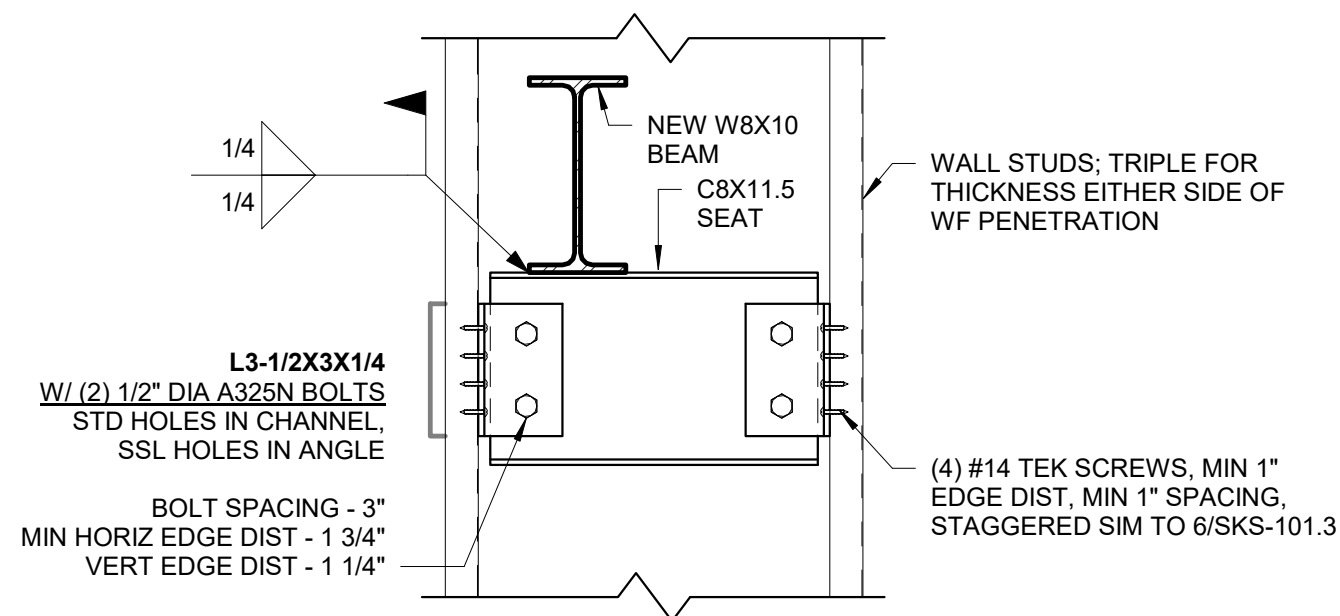
③ STUD KICKER TO ANGLE CONNECTION
1 1/2" = 1'-0"



⑥ OFFSET WALL STUD TO WF BEAM CONNECTION
1 1/2" = 1'-0"



② EDGE STUD TO WALL CONNECTION
1 1/2" = 1'-0"

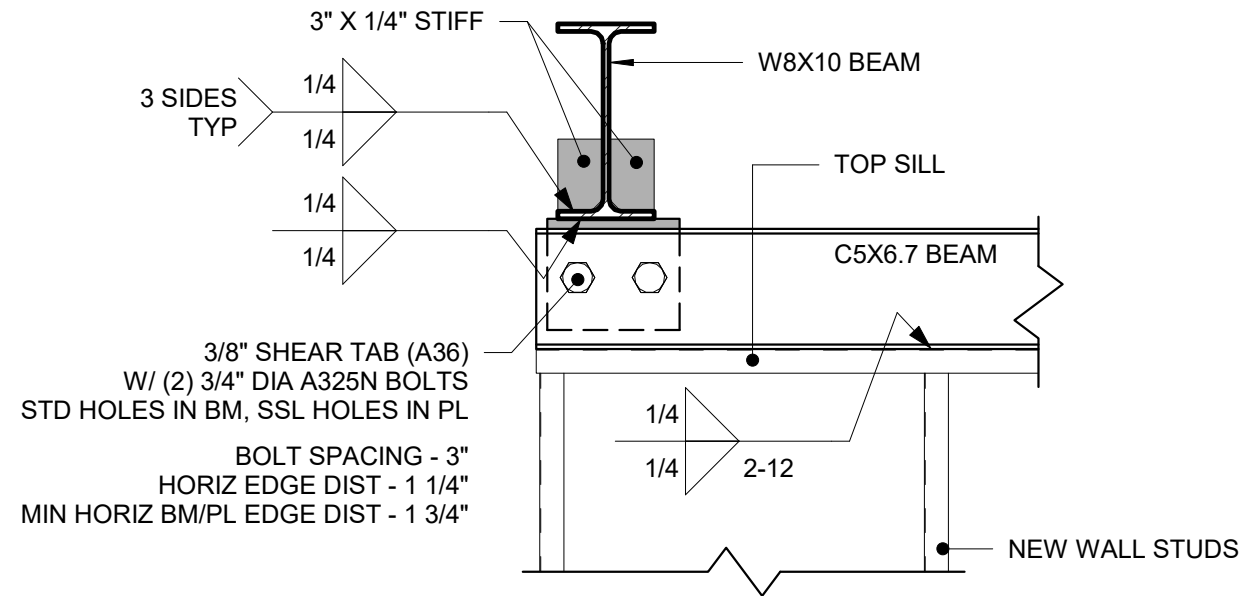


⑤ WF BEAM TO WALL CONNECTION
1 1/2" = 1'-0"

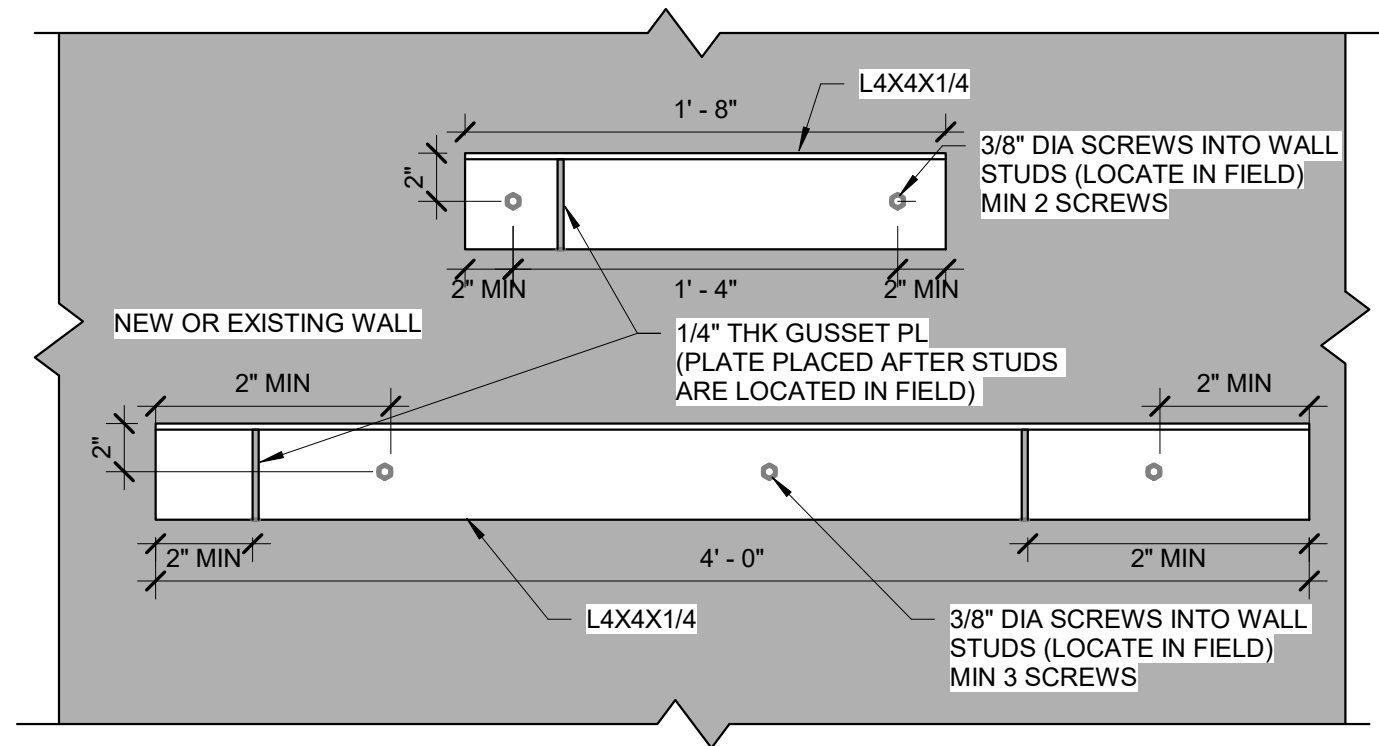
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

0" 1"

BAR IS ONE INCH ON
ORIGINAL DRAWING



② WALL STUD TO WF WITH CHANNEL
1 1/2" = 1'-0"



① ANGLE TO WALL CONNECTION
1 1/2" = 1'-0"

1. PUMPED WASTE FROM ABOVE
2. TIE PUMPED SINK WASTE INTO LINE FROM ABOVE
3. COORDINATE PUPE TO RUN UNDER MEZZANINE.



IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY.

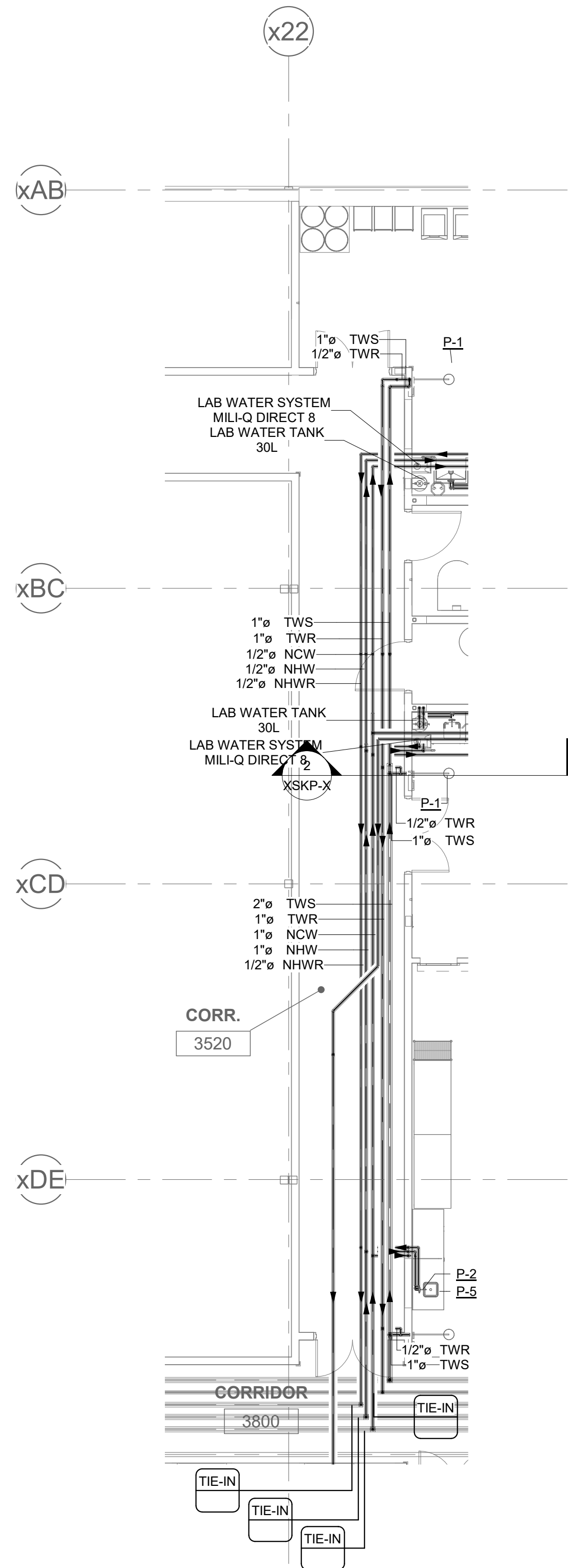
0" 1"

BAR IS ONE INCH ON
ORIGINAL DRAWING

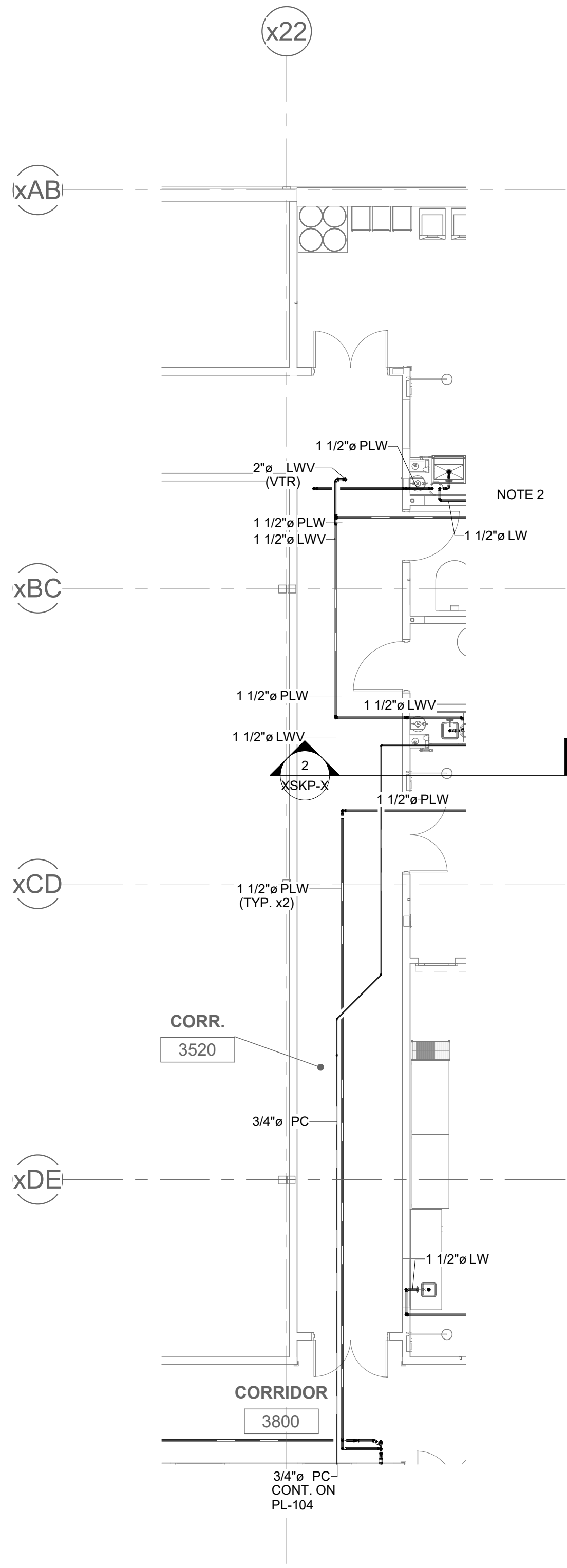
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

1" = 1'-0"

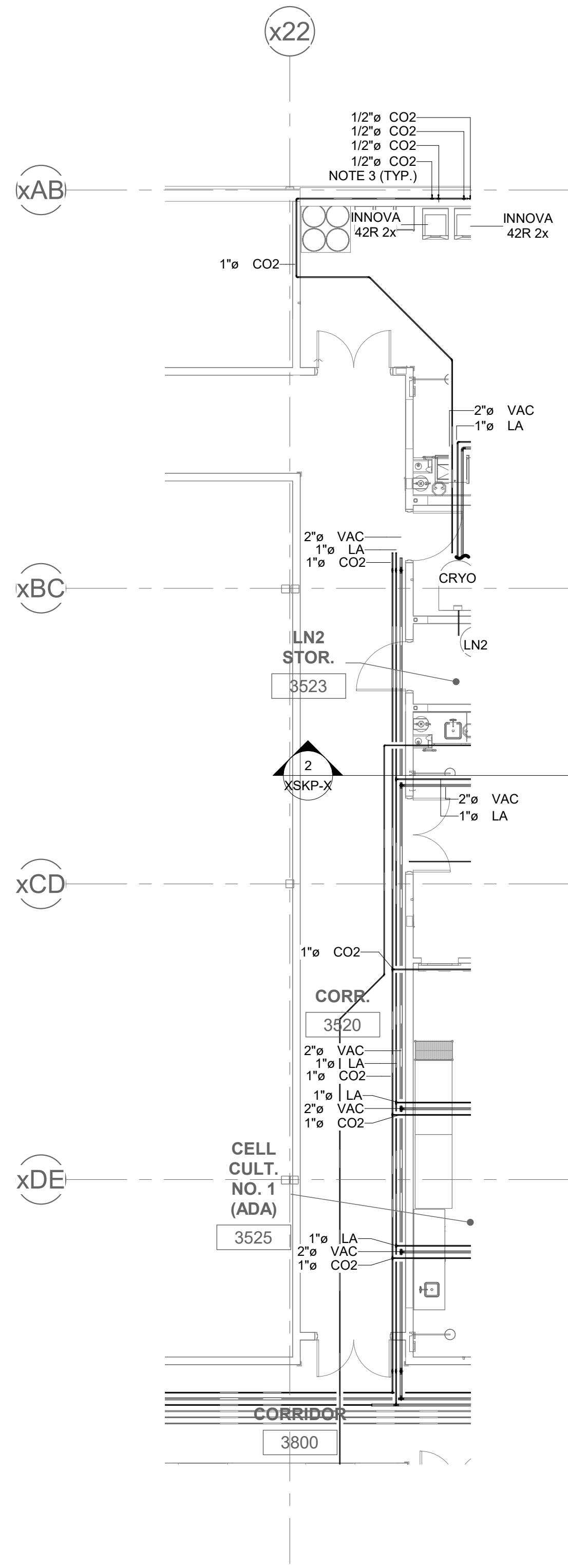
BAR IS ONE INCH ON ORIGINAL DRAWING



① PARTIAL PLAN: THIRD FLOOR WEST HOT, COLD & TEMPERED WATER PLUMBING (WEST)
1/8" = 1'-0"



② PARTIAL PLAN: THIRD FLOOR LAB WASTE & VENT PLUMBING (WEST)
1/8" = 1'-0"



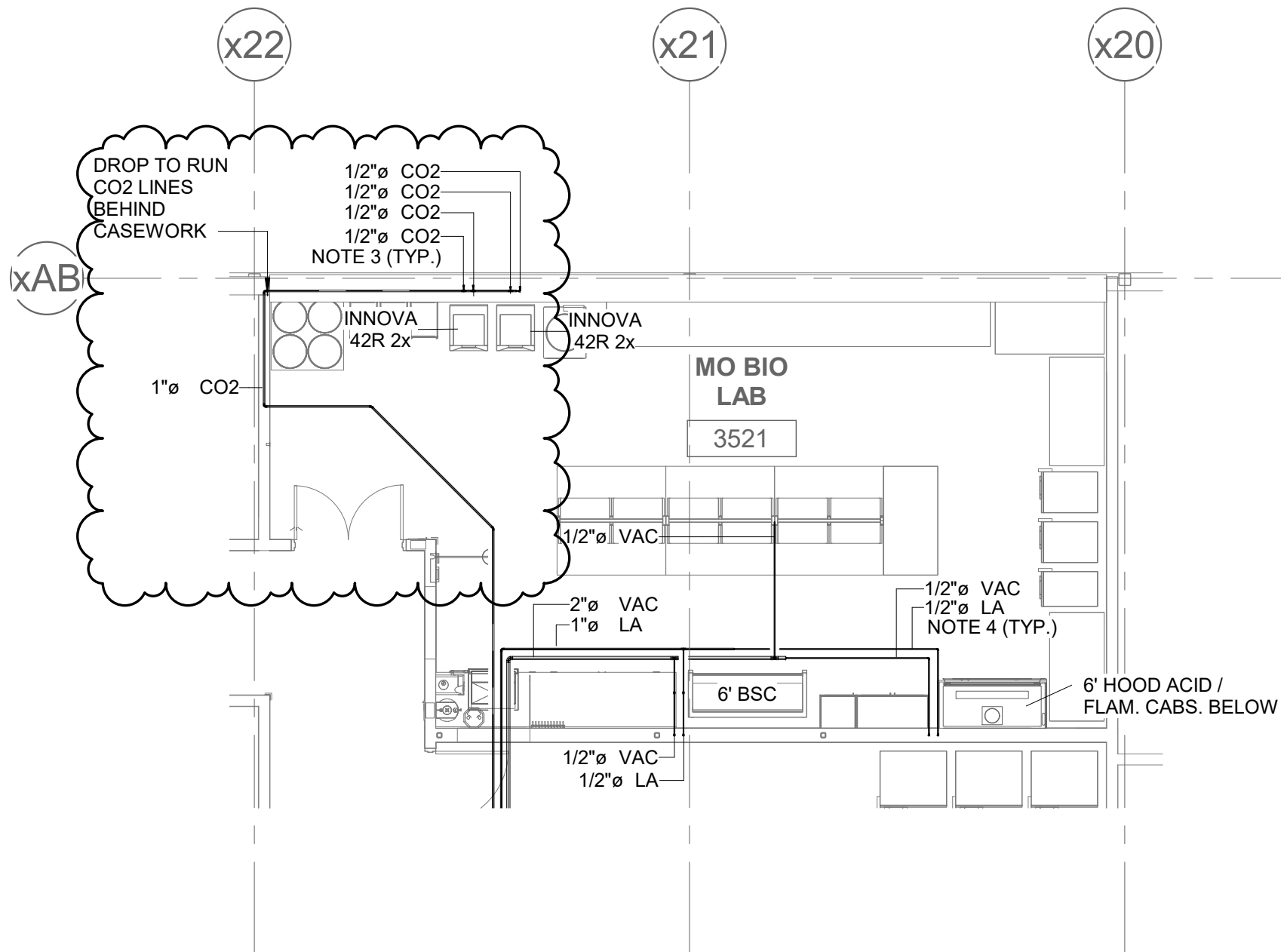
③ PARTIAL PLAN: THIRD FLOOR WEST GAS PLUMBING
1/8" = 1'-0"

SKP-2 HAS BEEN SUPERSEDED BY APPROVED SHOP DRAWINGS. SEE RESPONSE TO RFI-013

IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

0" 1"

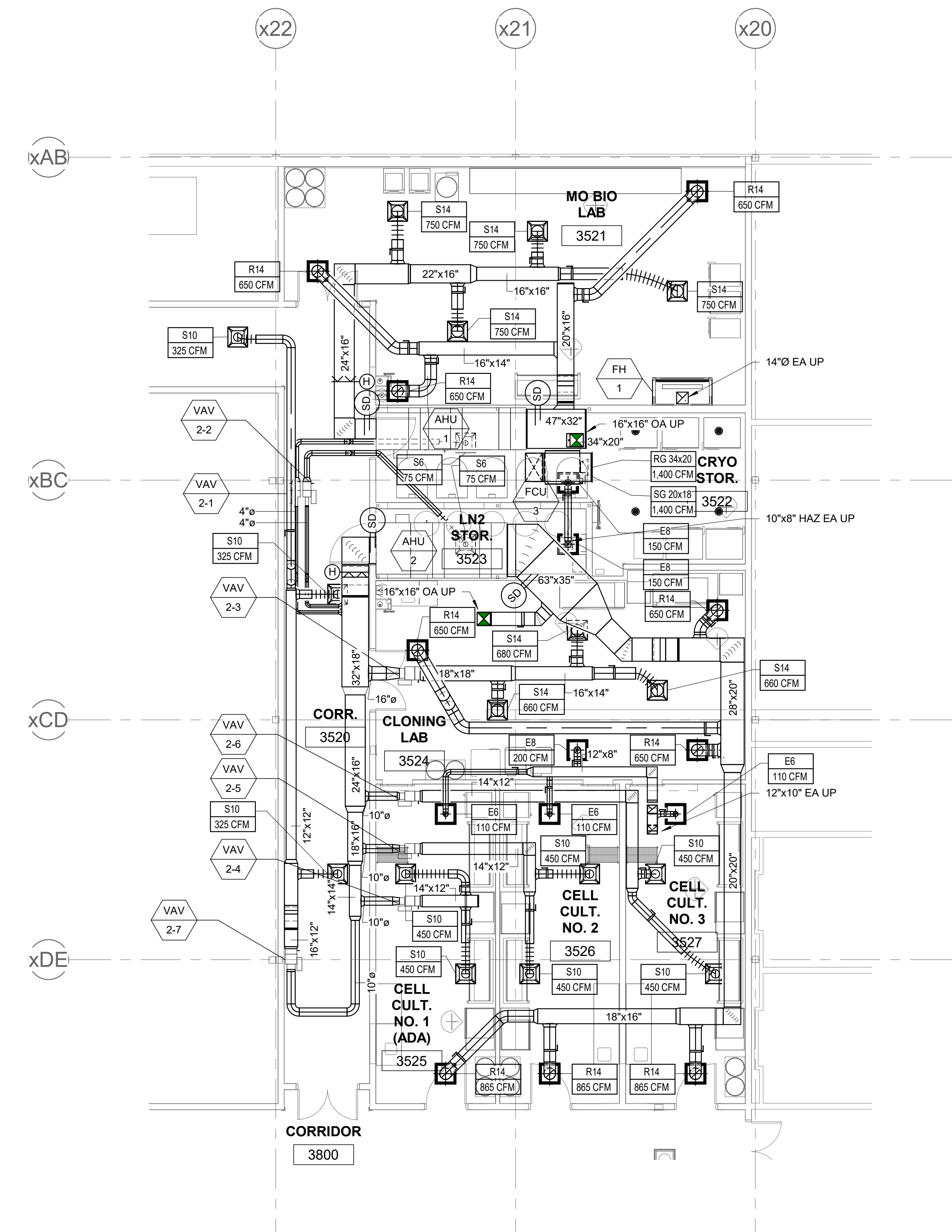
BAR IS ONE INCH ON
ORIGINAL DRAWING



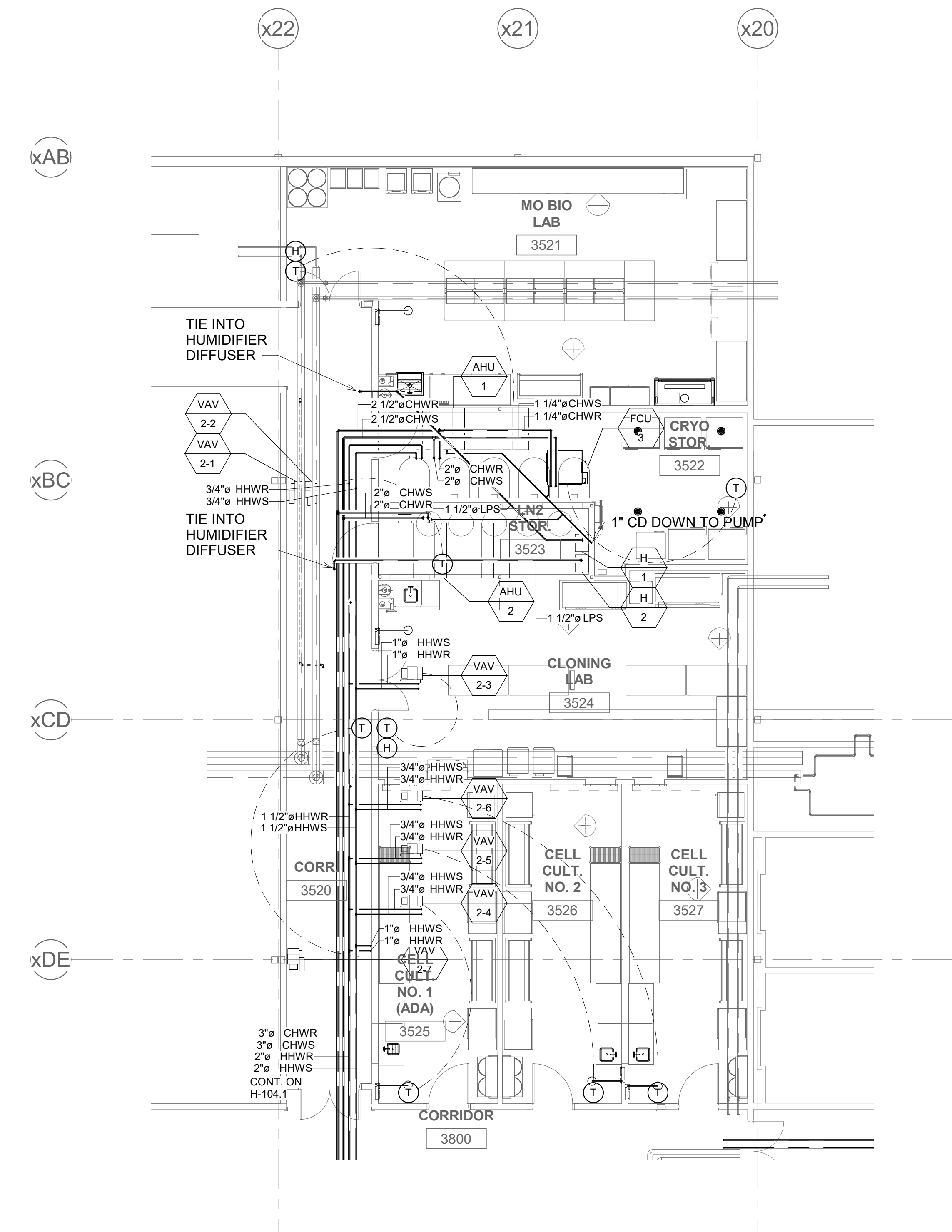
NOTES:

1. CO2 LINES SERVING INNOVA UNITS IN THE MO BIO LAB
HAVE BEEN REROUTED TO MATCH DESIGN CHANGE AS
DESCRIBED IN THE RFI-014 RESPONSE

1 PARTIAL PLAN: THIRD FLOOR WEST GAS PLUMBING
1/8" = 1'-0"



① LEVEL 3 MECHANICAL PLAN WEST
1/8" = 1'-0"



② LEVEL 3 MECHANICAL PIPING PLAN WEST
1/8" = 1'-0"

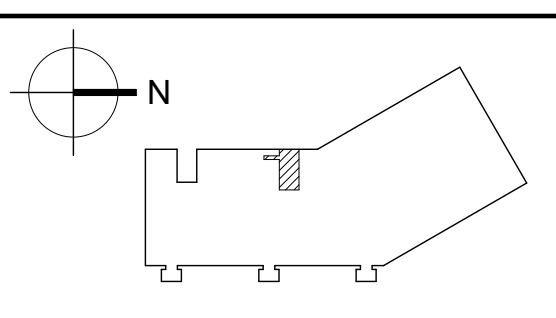
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

0' 1" 0'

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CUMBERLAND, RI 02864 | F: (401) 658-4609
A MEMBER OF THE HART COMPANIES WWW.HARTCOMPANIES.COM

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100 RESULTS WAY
MARLBOROUGH, MA 01752

GENERAL NOTE: ALL CONTRACTED PARTIES ARE REQUIRED TO REVIEW ALL CONTRACT DOCUMENTS, INCLUDING CONTRACT DRAWINGS AND/OR PROJECT SPECIFICATIONS. FOR ALL DISCIPLINES TO ASCERTAIN THE COMPLETE SCOPE OF WORK FOR THE PROJECT.		DSGN: GHS	REV.	DATE	REVISION DESCRIPTION	DWG.	CHK.	APVD.
		DR: GHS			SKH-1 RELEASED FOR RFI RESPONSE			
		CHK: -						
		APVD: -						



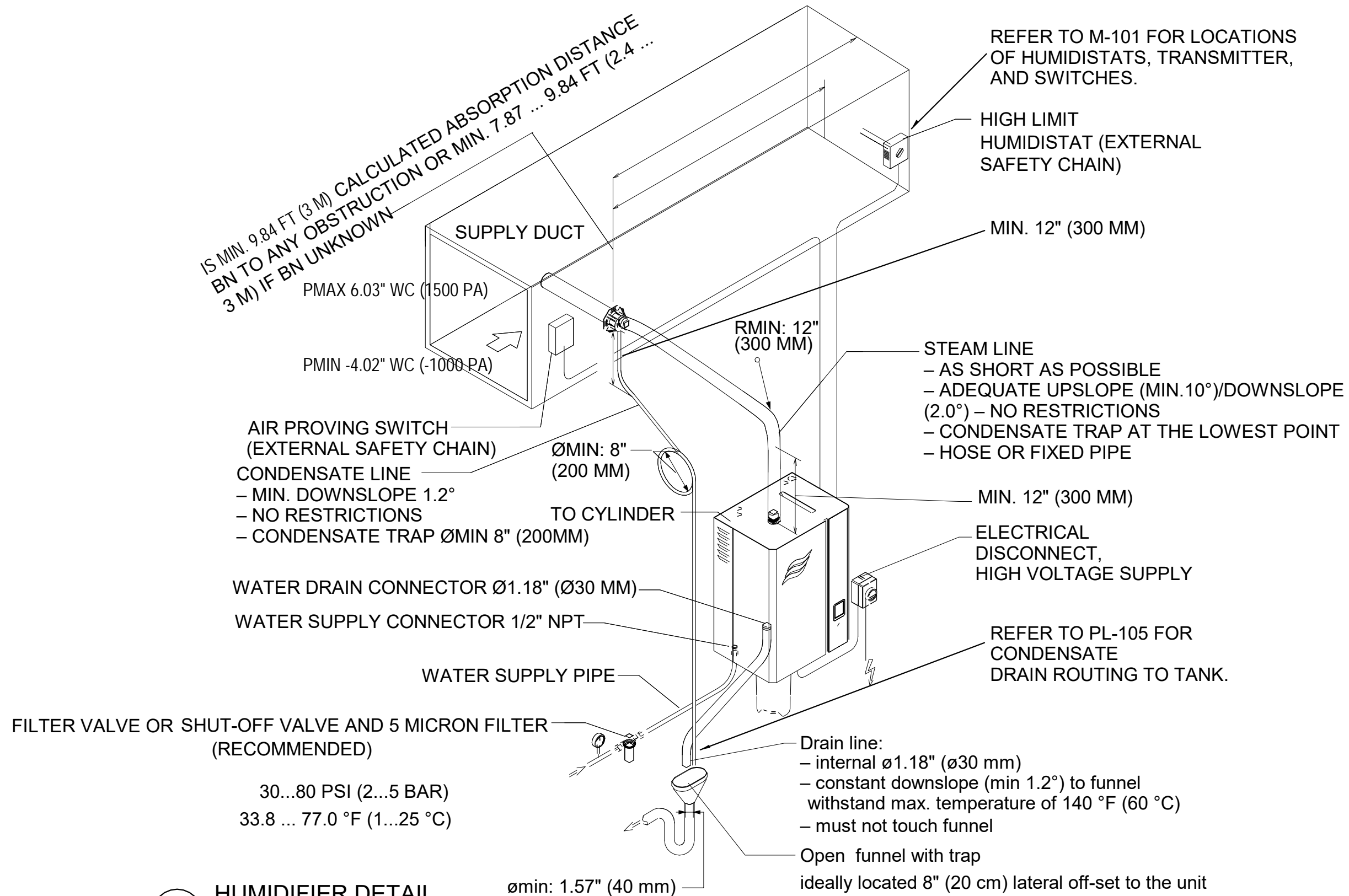
CLD & CCM LABS
HVAC
DUCTWORK AND PIPING CONFIGURATION FOR ELECTRICAL BOX COORDINATION
PROJ. NO: 20021A CAD FILE:

ISSUE DATE:
SCALE: 1/8" = 1'-0"
SHEET NUMBER
SKH-1

IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

0" 1"

BAR IS ONE INCH ON
ORIGINAL DRAWING



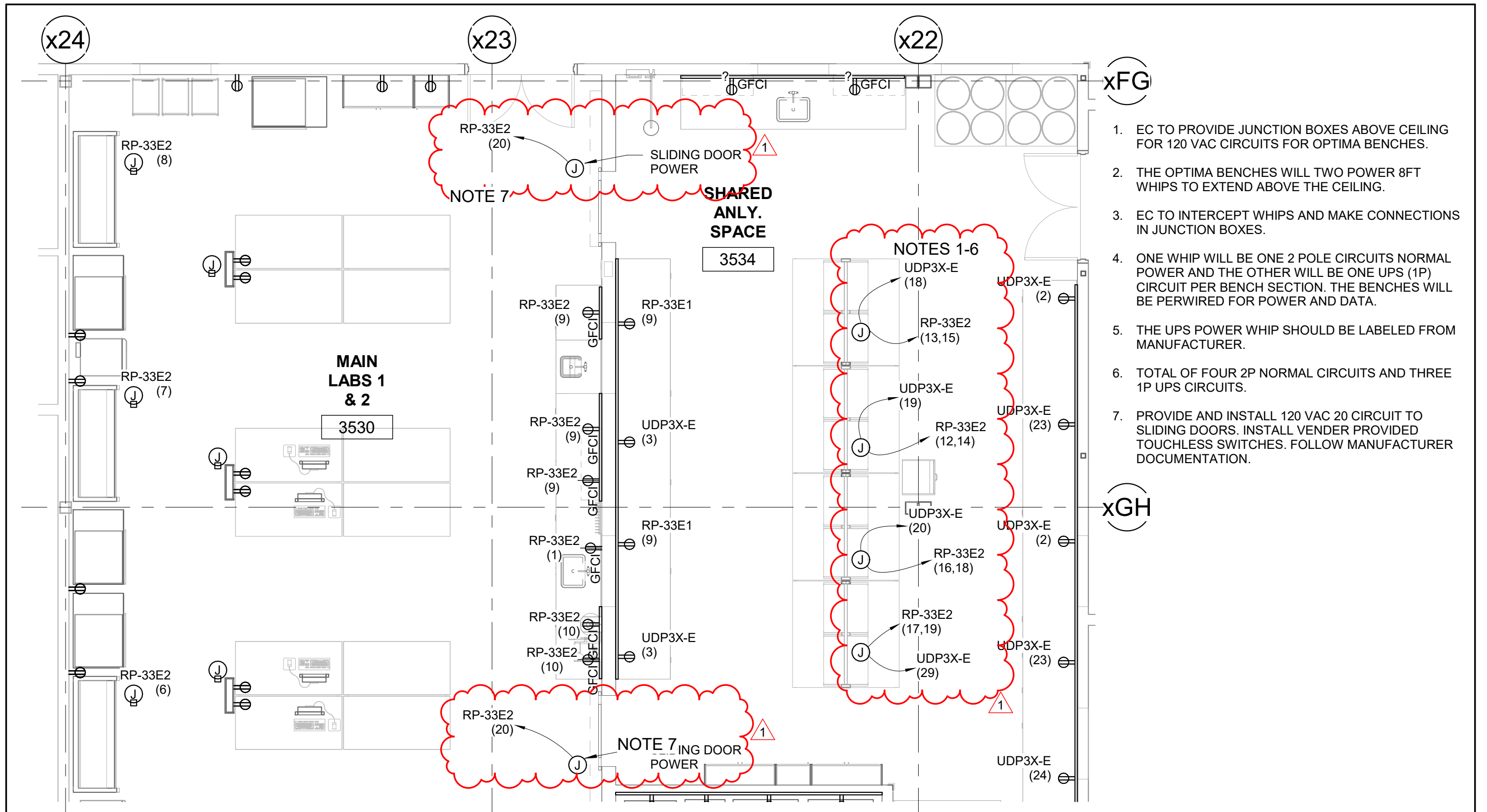
1

HUMIDIFIER DETAIL

IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

0" 1"

BAR IS ONE INCH ON
ORIGINAL DRAWING



1. EC TO PROVIDE JUNCTION BOXES ABOVE CEILING FOR 120 VAC CIRCUITS FOR OPTIMA BENCHES.
2. THE OPTIMA BENCHES WILL TWO POWER 8FT WHIPS TO EXTEND ABOVE THE CEILING.
3. EC TO INTERCEPT WHIPS AND MAKE CONNECTIONS IN JUNCTION BOXES.
4. ONE WHIP WILL BE ONE 2 POLE CIRCUITS NORMAL POWER AND THE OTHER WILL BE ONE UPS (1P) CIRCUIT PER BENCH SECTION. THE BENCHES WILL BE PERWIRED FOR POWER AND DATA.
5. THE UPS POWER WHIP SHOULD BE LABELED FROM MANUFACTURER.
6. TOTAL OF FOUR 2P NORMAL CIRCUITS AND THREE 1P UPS CIRCUITS.
7. PROVIDE AND INSTALL 120 VAC 20 CIRCUIT TO SLIDING DOORS. INSTALL VENDER PROVIDED TOUCHLESS SWITCHES. FOLLOW MANUFACTURER DOCUMENTATION.

1 PARTIAL THIRD FLOOR PLAN - EAST SHELL SPACE
3/16" = 1'-0"

HART DESIGN GROUP
800 SCENIC VIEW DRIVE
CUMBERLAND, RI 02864
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A MEMBER OF THE HART COMPANIES
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cytiva
100 RESULTS WAY
MARLBOROUGH, MA 01752

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PROJ. NO.	20021A
DRAWN	S.FITZGERALD
CHK.	M.POWERS
APPD.	M.POWERS

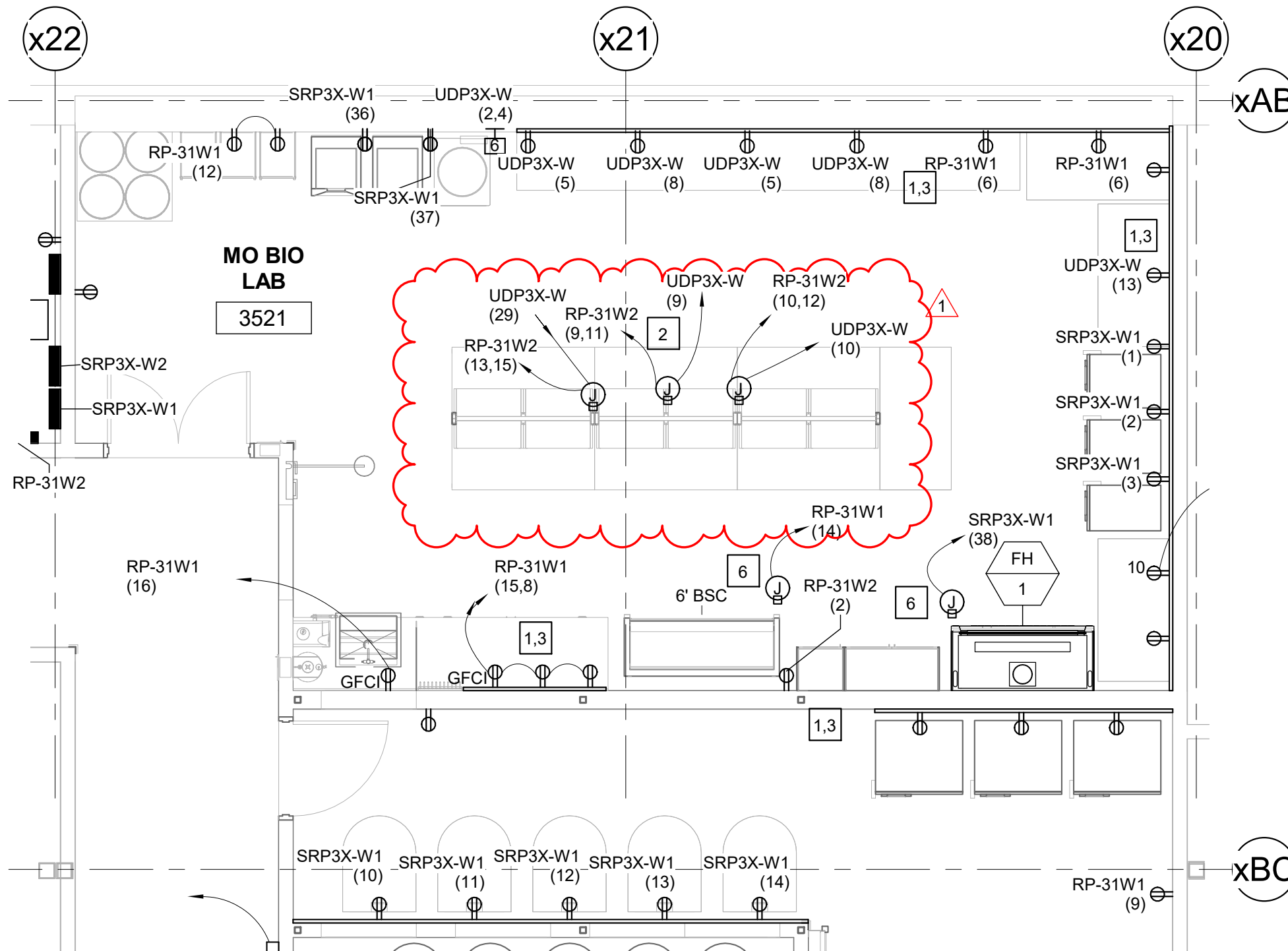
CLD & CCM LABS
ELECTRICAL
MAIN LABS AND SHARED ONLY.
ENLARGED POWER PART PLAN
ISSUED FOR BULLETIN 2

ISSUE DATE:	12/15/21
SCALE:	3/16" = 1'-0"
SHEET NUMBER SKE-101	

IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

0" 1"

BAR IS ONE INCH ON
ORIGINAL DRAWING



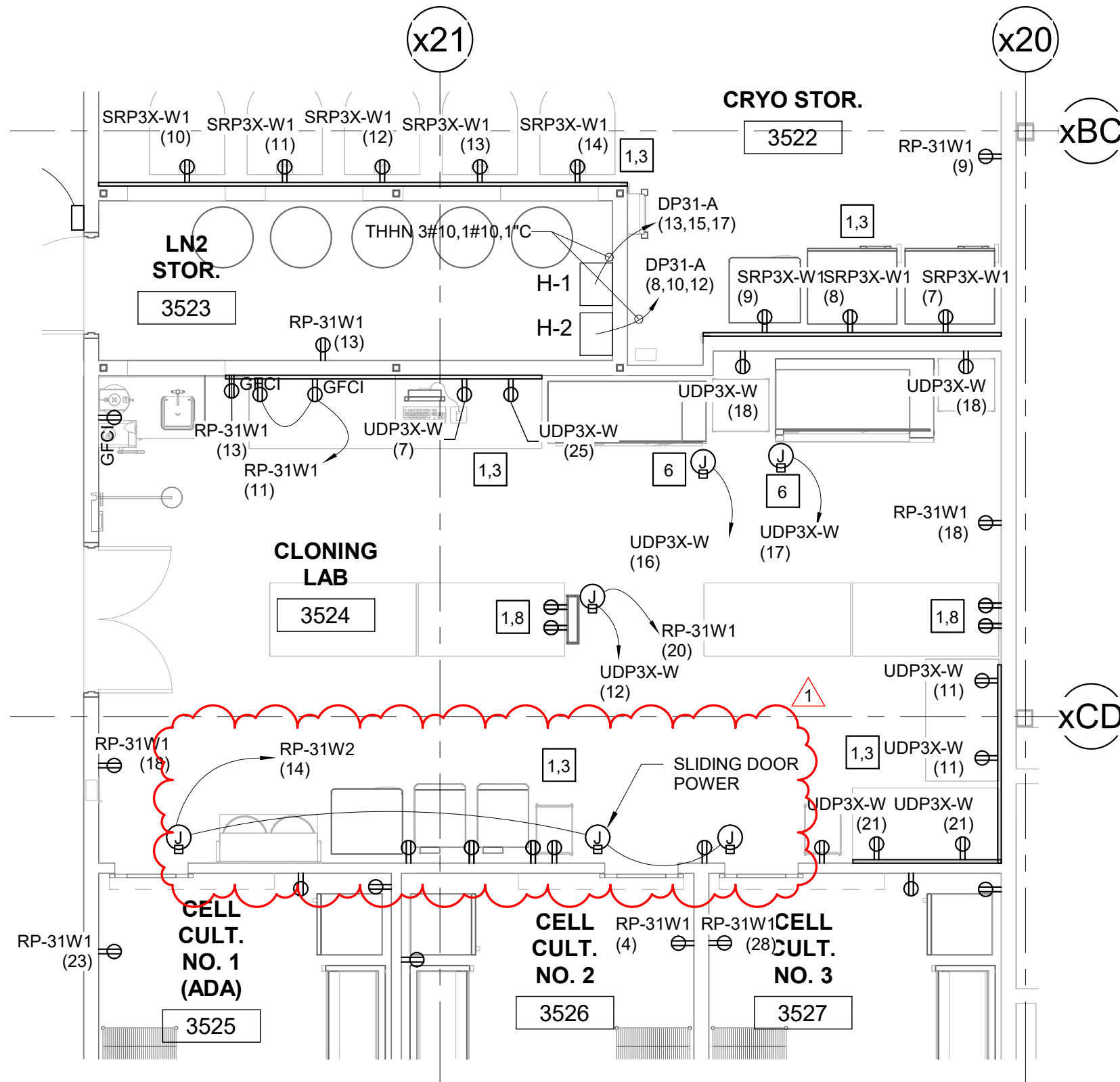
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5. THE UPS POWER WHIP SHOULD BE LABELED FROM MANUFACTURER.
6. TOTAL OF FOUR 2P NORMAL CIRCUITS AND THREE 1P UPS CIRCUITS.

1 PARTIAL THIRD FLOOR PLAN - WEST SHELL SPACE
3/16" = 1'-0"

IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

0" 1"

BAR IS ONE INCH ON
ORIGINAL DRAWING



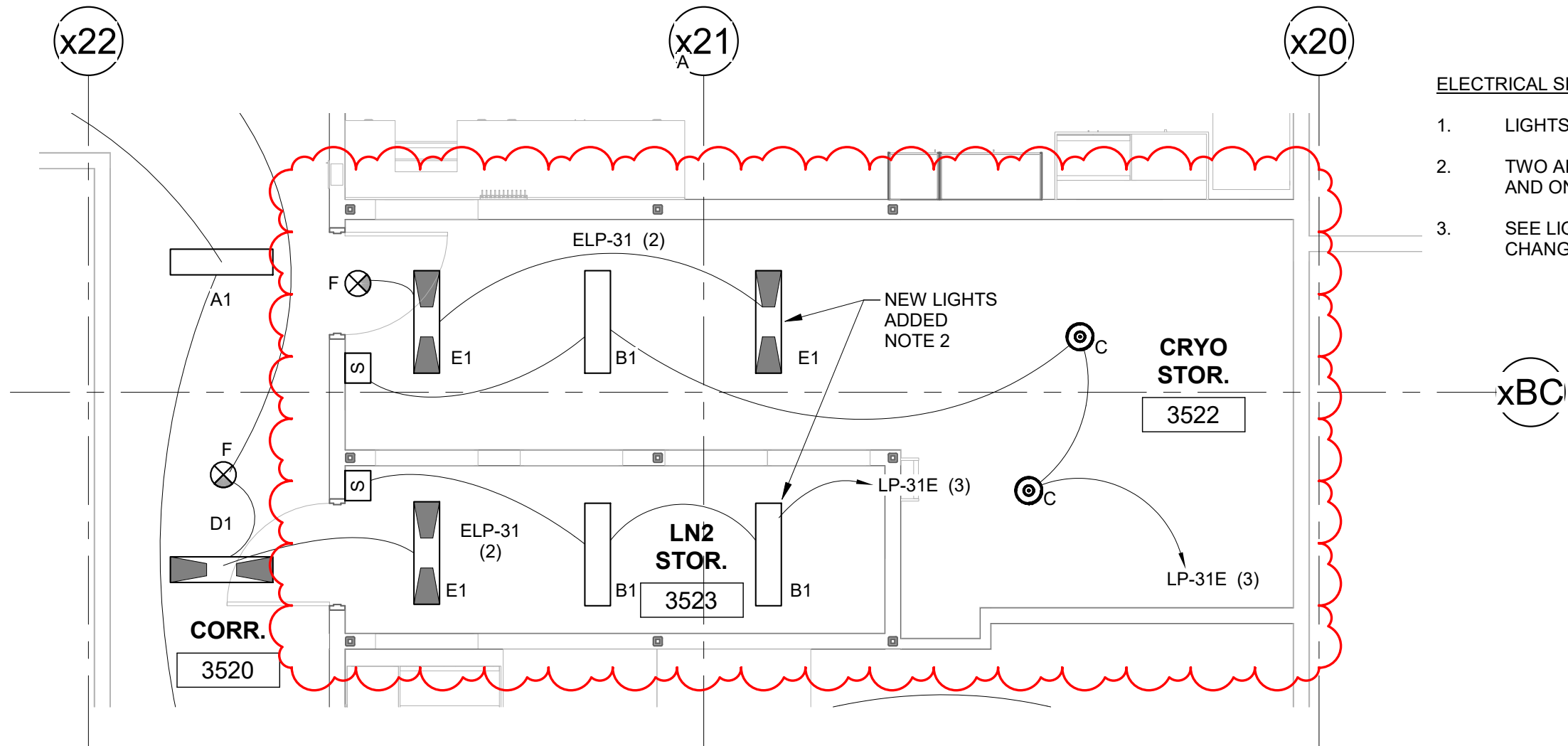
1. PROVIDE AND INSTALL 120 VAC 20 CIRCUIT TO SLIDING DOORS. INSTALL VENDER PROVIDED TOUCHLESS SWITCHES. FOLLOW MANUFACTURER DOCUMENTATION.

1 PARTIAL THIRD FLOOR PLAN - WEST SHELL SPACE
3/16" = 1'-0"

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0" 1"

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① PARTIAL THIRD FLOOR PLAN - WEST SHELL SPACE
3/16" = 1'-0"

LIGHT FIXTURE SCHEDULE COMPLETE WEST SKE

TYPE MARK	MANUFACTURER	MODEL	DESCRIPTION	LAMP	VOLTAGE	WATTAGE	MOUNTING	QTY
A	LITETRONICS	PT13520	1x4 LED LIGHT PANEL ADJUSTABLE LIGHT OUTPUT	LED	120-277V	20W	T-BAR GRID	19
A1	LITETRONICS	PT13530	1x4 LED LIGHT PANEL ADJUSTABLE LIGHT OUTPUT	LED	120-277V	30W	T-BAR GRID	15
B1	LITETRONICS	PT13530 W/ FPAM221	1x4 LED LIGHT PANEL ADJUSTABLE LIGHT OUTPUT, WITH DRYWALL MOUNT KIT	LED	120-277V	30W	FLANGE	3
C	LITHONIA	JEBL12000LM PFL MVOLT 40K 80CRI, WITH JEBLSM1M6	LED HIGH BAY FIXTURE JEBL, WITH SURFACE MOUNT KIT	LED	120-277V	92.4	SURFACE	2
D	LITETRONICS	PT13520 W/ EB23UQB	1x4 LED LIGHT PANEL ADJUSTABLE LIGHT OUTPUT/ EB BACKUP	LED	120-277V	20W	T-BAR GRID	3
D1	LITETRONICS	PT13530 W/ EB23UQB	1x4 LED LIGHT PANEL ADJUSTABLE LIGHT OUTPUT/ EB BACKUP	LED	120-277V	30W	T-BAR GRID	17
E1	LITETRONICS	PT13530 W/ FPAM221 AND EB23UQB	1x4 LED LIGHT PANEL ADJUSTABLE LIGHT OUTPUT, WITH DRYWALL MOUNT KIT & EB BACKUP	LED	120-277V	30W	FLANGE	3
F	LITHONIA	LQM-P-W-3-R-120/277-EL N OR EQUAL	LED EXIT LIGHT W/ BATTERY BACK-UP	LED	120-277V	1	SURFACE	10