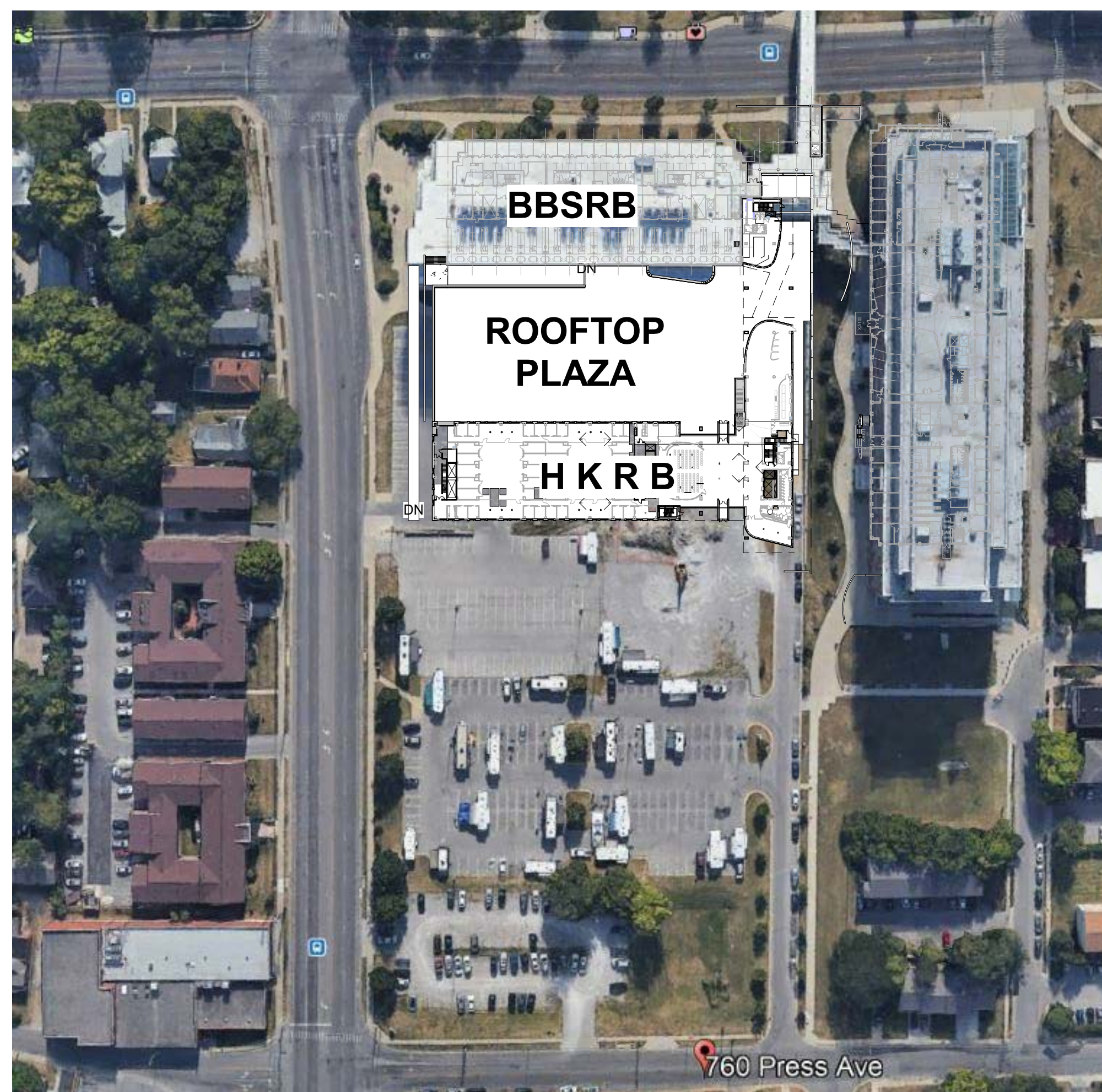


UNIVERSITY OF KENTUCKY

HEALTHY KENTUCKY RESEARCH BUILDING

760 PRESS AVENUE
LEXINGTON, KY 40506

VICINITY MAP



CONSTRUCT RESEARCH BUILDING

(FIT UP TWO WET LABS)

FINAL BID & PERMIT SET
AUGUST 25, 2020



DRAWING INDEX - LEVEL 1-NIH

Sheet Number	Sheet Name
GENERAL	
AG-000A	COVER SHEET
AG-001A	DRAWING INDEX
AG-003	CODE AND LIFE SAFETY
AG-021	ACCESSORY MOUNTING HEIGHTS
AG-070	TYPICAL INTERIOR PARTITION TYPES
ARCHITECTURAL	
AI-251B	FLOOR PLAN - LEVEL ONE AREA 'B' FIT OUT
AI-261B	PARTITION PLAN - LEVEL ONE AREA 'B'
AI-271B	ENLARGED FLOOR PLANS & ELEVATIONS
AI-351B	FLOOR FINISH PLAN - LEVEL ONE AREA 'B'
AI-451B	RCP - LEVEL ONE AREA 'B'
AI-628H	INTERIOR ELEVATIONS - WET LAB 151 & 152
AI-628I	INTERIOR ELEVATIONS LEVEL ONE AREA 'B'
AI-628E	INTERIOR ELEVATIONS LEVEL ONE AREA 'B'
AI-661A	DETAILS - CEILING
AI-670A	DETAILS - MISCELLANEOUS
AI-679	CASEWORK SECTIONS
AI-721A	DOOR AND ROOM FINISH SCHEDULE LEVEL ONE
AI-722	DOOR AND FRAME DETAILS
AI-724	FINISH LEGEND
AI-728A	INTERIOR SIGNAGE - LEVEL ONE AREA 'B'
LABORATORY	
QL-100	LAB EQUIPMENT COVER SHEET
QL-101	LAB EQUIPMENT COVER SHEET
QL-201	FLOOR PLAN LEVEL 01 OVERALL
QL-201B	FLOOR PLAN LEVEL 01 AREA 'B'
QL-301	LABORATORY ELEVATIONS
QL-400	TABLE SYSTEMS AND CEILING SERVICE PANEL DETAILS
QL-401	LAB CASEWORK DETAILS
QL-402	LAB CASEWORK DETAILS
QL-403	LAB CASEWORK DETAILS
QL-404	FUME HOOD DETAILS
FIRE PROTECTION	
FP-150	FIRE PROTECTION LEGEND/SCHEDULES
FP-251	LEVEL 01 PHASE 2 FITOUT - FIRE PROTECTION
PLUMBING	
P-151	PLUMBING LEGEND
P-251B	LEVEL 01 PHASE 2 FITOUT AREA 'B' - PLUMBING PLAN
P-362	ENLARGED LAB PLAN - LAB NEIGHBORHOOD MODULE 151
P-363	ENLARGED LAB PLAN - LAB NEIGHBORHOOD MODULE 152
P-364	BASEMENT NIH FITOUT AREA B - PLUMBING PLAN
P-451	PLUMBING DETAILS
P-955	NIH LEVEL 1 LAB FIT-OUT RISER ISOMETRICS
P-956	NIH LEVEL 1 LAB FIT-OUT RISER ISOMETRICS
P-957	NIH LEVEL 1 LAB FIT-OUT RISER ISOMETRICS

DRAWING INDEX - LEVEL 1-NIH

Sheet Number	Sheet Name
MECHANICAL	
MF-050	MECHANICAL FIT OUT SYMBOLS AND ABBREVIATIONS
MF-151	MECHANICAL FIT OUT LEVEL ONE DEMOLITION PLAN
MF-251 II	MECHANICAL FIT OUT VENTILATION LEVEL ONE FLOOR PLAN AREA II
MF-251 III	MECHANICAL FIT OUT VENTILATION LEVEL ONE FLOOR PLAN AREA III
MF-251 IV	MECHANICAL FIT OUT VENTILATION LEVEL ONE FLOOR PLAN AREA IV
MF-351B	MECHANICAL FIT OUT PIPING LEVEL ONE FLOOR PLAN AREA B
MF-854	MECHANICAL DETAILS - DUCTWORK
MF-855	MECHANICAL DETAILS - DUCTWORK
MF-856	MECHANICAL DETAILS - PIPING
MF-958	MECHANICAL SCHEDULES
MF-959	MECHANICAL SCHEDULES
ELECTRICAL	
EF-050	ELECTRICAL PHASE 2 FO SYMBOLS AND ABBREVIATIONS
EF-051	ELECTRICAL PHASE 2 FO EQUIPMENT NAMING GUIDELINES
EF-251B	ELECTRICAL PHASE 2 FO POWER FLOOR PLAN - LEVEL 01 AREA B
EF-458	ELECTRICAL PHASE 2 LAB NEIGHBORHOOD 151 ENLARGED POWER PLAN
EF-459	ELECTRICAL PHASE 2 LAB NEIGHBORHOOD 152 ENLARGED PLAN
EF-552	ELECTRICAL PHASE 2 FO NORMAL POWER RISER
EF-553	ELECTRICAL PHASE 2 FO EMERGENCY AND CRITICAL RISER
EF-555	ELECTRICAL PHASE 2 FO GROUNING RISER
EF-851	ELECTRICAL PHASE 2 FO DETAILS
EF-852	ELECTRICAL PHASE 2 FO DETAILS
EF-954	ELECTRICAL PHASE 2 FO PANEL SCHEDULES
EF-973	ELECTRICAL PHASE 2 FO NORMAL LAB PANEL SCHEDULES
EF-984	ELECTRICAL PHASE 2 FO CRITICAL LAB PANEL SCHEDULES
EL-051	LEVEL 01 PHASE 2 - LIGHTING DEMOLITION PLAN
EL-151B	LEVEL 01 PHASE 2 FITOUT - AREA 'B' - LIGHTING PLAN
EL-351	PHASE 2 LIGHTING SYMBOLS AND FIXTURE SCHEDULE
EL-452	PHASE 2 LIGHTING PANEL SCHEDULES
EL-551	PHASE 2 TYPICAL LIGHTING PLANS
EL-653	PHASE 2 NETWORK LIGHTING CONTROL RISER DIAGRAMS
EL-654	PHASE 2 NETWORK LIGHTING CONTROL RISER DIAGRAMS
ES-151B	LEVEL 01 PHASE 2 FITOUT AREA 'B' - ESS
FIRE ALARM	
FAF-251B	FIRE ALARM PHASE 2 FO FLOOR PLAN - LEVEL 01 AREA B
FAF-950	FIRE ALARM PHASE 2 FO RISER
FAF-951	FIRE ALARM PHASE 2 FO MATRIX
TECHNOLOGY	
TF-050	TECHNOLOGY PHASE 3 FO SYMBOLS AND ABBREVIATIONS
TF-251B	TECHNOLOGY PHASE 3 FO PLAN LEVEL ONE AREA B
AUDIO VISUAL	
AVF-050	AUDIO VISUAL PHASE 3 FO SYMBOLS AND ABBREVIATIONS
AVF-251B	AUDIO VISUAL PHASE 3 FO PLAN LEVEL ONE AREA B
INSTRUMENTATION AND CONTROLS	
IC-950	CONTROL INSTRUMENTATION SYMBOLS & ABBREVIATIONS
IC-950	BAS SYSTEM ARCHITECTURE
IC-753	TERMINAL UNITS
IC-754	TERMINAL UNITS
IC-755	TERMINAL UNITS
IC-756	TERMINAL UNITS
IC-950	INSTRUMENTATION EQUIPMENT SCHEDULES
IC-951	POINTS LIST



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UK Project Number 2538.0

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1	DD ISSUANCE - NIH	02/05/20
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3	BID & PERMIT - NIH	05/22/20

Drawn By	
Author	
Checked By	
Checker	
Client Number	514
Project Number	5350

DRAWING TITLE

DRAWING INDEX

SHEET NO.
AG-001A

CODE SUMMARY - LEVEL ONE FIT OUT

PROJECT CODE SUMMARY - LEVEL 1 FIT-OUT

PROJECT NAME AND ADDRESS:
UNIVERSITY OF KENTUCKY - HEALTHY KENTUCKY RESEARCH BUILDING
760 PRESS AVENUE, LEXINGTON, KY 40506

PROJECT DESCRIPTION:
FIT UP OF TWO LAB NEIGHBORHOODS FOR VASCULAR RESEARCH (N.I.H. GRANT)

GOVERNING CODES:
2018 KENTUCKY BUILDING CODE
2015 INTERNATIONAL MECHANICAL CODE
2012 INTERNATIONAL ENERGY CONSERVATION CODE
2015 INTERNATIONAL FIRE CODE (NEW CONSTRUCTION PROJECTS, ONLY WHEN SPECIFICALLY REFERENCED BY THE BODY OF KBC)
2012 NFPA 1 - FIRE PREVENTION CODE (AS DIRECTED BY 815 KAR 10:60 KENTUCKY STANDARDS OF SAFETY)
2012 NFPA 54 - NATIONAL FUEL GAS CODE
2015 NFPA 45 - STANDARD ON FIRE PROTECTION FOR LABORATORIES USING CHEMICALS
2017 NFPA 70 - NATIONAL ELECTRICAL CODE
2009 ICC/ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES
KENTUCKY STATE PLUMBING LAW, REGULATIONS & CODE (815 KAR CHAPTER 20)
NIH DESIGN REQUIREMENTS MANUAL (DRM - REV1.4: 4/24/2019)

OCCUPANCY CLASSIFICATION (302.1):
NONSEPARATED MIXED USE (508.3)
LEVEL 1: LABORATORY NEIGHBORHOODS - B (BUSINESS)

LABORATORY CLASSIFICATION (NFPA-45)
CLASS B LABORATORY - MODERATE FIRE HAZARD

CONSTRUCTION TYPE (602.1):
1-B

HIGH-RISE BUILDINGS:
BUILDING CLASSIFIED AS HIGH-RISE: CONTAINS A FLOOR MORE THAN 75 FT ABOVE LOWEST LEVEL (403)
FIRE SPRINKLER REQUIREMENTS - BUILDING TO BE FULLY SPRINKLED (403.3)
SPRINKLER RISERS SHALL BE LOCATED IN INTERIOR EXIT STAIRWAYS (403.3.1.1)
2-HOUR FIRE BARRIER REQUIRED AT FIRE PUMP ROOM (403.3.3)
1-HOUR FIRE BARRIER REQUIRED AT FIRE COMMAND CENTER (403.6)
LOCKABLE NON-EXIT DISCHARGE STAIRWAY DOOR CONTROL REQUIRED VIA FIRE COMMAND CENTER (403.5.3)
STAIRWAY COMMUNICATION SYSTEM REQUIRED AT EVERY 5TH FLOOR OR GREATER (403.5.3.1)
SMOKEPROOF ENCLOSURES REQUIRED FOR EXIT STAIRWAYS SERVING FLOORS ABOVE 75 FT (403.5.4)
LUMINOUS EGRESS PATH MARKINGS REQUIRED (1024)

BUILDING AREA - LEVEL 1 FIT OUT
USE GROUP B 19,882 SF.

FIRE RESISTANCE REQUIREMENTS (TABLE 601):
PRIMARY STRUCTURAL FRAME 2 HOUR
BEARING WALLS
EXTERIOR 2 HOUR
INTERIOR 2 HOUR
NONBEARING WALLS
EXTERIOR 0 HOUR (TABLE 602)
INTERIOR 0 HOUR
FLOOR CONSTRUCTION 2 HOUR
ROOF CONSTRUCTION 1 HOUR
SHAFT ENCLOSURES 2 HOUR (713.4)
CORRIDORS 0 HOUR (TABLE 1018.1)

MAXIMUM EXIT ACCESS TRAVEL DISTANCE (TABLE 1016.2):
GROUP A, S-1 250 FT
GROUP B 300 FT

MAXIMUM COMMON PATH OF EGRESS TRAVEL (TABLE 1014.3):
GROUP B, S 100 FT
GROUP A 75 FT

DEAD END CORRIDORS (1018.4):
GROUP B, S 50 FT
GROUP A 20 FT

EXIT REQUIREMENTS:
EXIT SEPARATION 30 FT AND 1/4 MAX DIAGONAL DIMENSION (403.5.1)
MINIMUM EXIT WIDTH
STAIRS 0.2 INCHES PER OCCUPANT (1005.3.1)
OTHER COMPONENTS 0.15 INCHES PER OCCUPANT (1005.3.2)

* REFER TO LIFE SAFETY DRAWINGS FOR OCCUPANT LOAD, TRAVEL DISTANCE, EGRESS WIDTH AND CAPACITY CALCULATIONS AND TOTALS
* REFER TO STRUCTURAL GENERAL NOTES FOR DESIGN CATEGORY AND SEISMIC, SNOW, AND WIND IMPORTANCE FACTORS

ARCHITECTURAL ABBREVIATIONS

A A/E ARCHITECT/ENGINEER ADD ADDENDUM ADJ ADJUSTABLE ADXC ADJUSTABLE ABOVE FINISH FLOOR AFF ALUMINUM ALT ALTERNATE APPROX APPROXIMATELY ARCH ARCHITECT(URAL)	B BO BOARD BLDG BUILDING CLG CLEARANCE CUR CURB BO BOTTOM OF BOT BOTTOM BRKT BRACKET BTW BETWEEN	C CEN CENTER (TRAL) PERIM PERIMETER CL CENTER LINE CLG CLEARANCE CNTN COUNTER COL COLUMN CONC CONCRETE CONN CONNECTION CONSTR CONSTRUCTION CONT CONTINUE (OUS) (ATION)	D DEEP DEPTH DEMO DEMOLITION DET DETAIL DIA DIAMETER DIM DIMENSION DN DOWN DR DOOR DWG(S) DRAWING(S)	E EACH EJ EXPANSION JOINT EL ELEVATION ELEC ELECTRICAL EQ EQUIP EXCL EXCLUDE (ED) (ING) EXIST EXISTING EXP EXPANSION EXT EXTERIOR	F FAS FASTENED (ER) FSTR FASTENED (ER) FD FLOOR DRAIN FDM FOUNDATION FLR FLOOR(ING) FT FOOT FEET FTG FOOTING	G GA GAUGE GC GENERAL CONTRACTOR	H HT HEIGHT HD HEAD HLLW HOLLOW METAL HM HOLD OPEN HORIZ HORIZONTAL HORIZ HORIZONTAL HANDRAIL(S)	I ID INSIDE DIAMETER/DIMENSION IN INCHES INCL INCLUDE (DED) (DING) (SIVE) INSUL INSULATE (E) (ED) INT INTERIOR INTR INTERIOR	J JST JOIST JT JOINT	K KS KNEE SPACE	L L ANGLE (STRUC SHAPE) L LONG LENGTH LAV LAVATORY LF LINEAL FOOT, FEET LT LIGHT LTG LIGHTING LVL LEVEL	M MAS MASONRY MATL MATERIAL MAX MAXIMUM MECH MECHANICALLY MET METAL MFL METAL MIN MINIMUM MISC MISCELLANEOUS MNT(M) MOUNTING MUL MULLION	N N/A NOT APPLICABLE NEC NECESSARY NIC NOT IN CONTRACT NO2 NITROUS OXIDE NO3 NITRIC OXIDE NOM NOMINAL NTS NOT TO SCALE	O O OXYGEN O2 O2 OC ON CENTER OD OUTSIDE DIAMETER/DIMENSION ODI OWNER FURNISHED-OWNER INSTALLED OFICI OWNER FURNISHED-CONTRACTOR INSTALLED OH OVERHEAD OPP OPPOSITE HAND OPG OPENING OPP OPPOSITE OPT OPTIONAL	P PAR PARALLEL PERIM PERIMETER PL PLATE PNL PANEL PR PAINTED PTD PARTITION PTN PARTITION PTS PNEUMATIC TUBE STATION	Q QTY QUANTITY	R R RADIUS, RADII R RISER REF REFLECTED CEILING PLAN RD ROOF DRAIN RCP ROOF RENF REINFORCE (ED) (ING) (EMENT) RECD REQUIRED REV REVISION (ED) (ION) RM ROOM RO ROUGH OPENING	S SECT SECTION SF SQUARE FOOT/FEET SHEET(S) SHEET(ING) SHT SHEATHING SHTG SIMILAR SM SKYLIGHT(S) SPECOR(S) SPECIFICATION(S) SS STAINLESS STEEL STD STANDARD STL STEEL STRUC STRUCTURE (AL) SYM SYMMETRY (ICAL)	T T TREAD T/D TELEPHONE DATA OUTLET TEL TELEPHONE TEMP TEMPORARY TOP OF TYPICAL	U UC UNDER CABINET UNO UNLESS NOTED OTHERWISE UR UNIFORM	V VAC VACUUM VAR VARY (IES) (ATION) VEN VENEER VERT VERTICAL	W W WIDE WIDTH W WITH W/O WITHOUT WC WATER CLOSET WD WOOD WWSCT WANSCOT	X XP(D) EXPOSE(D)
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OTHER CEILING PLAN SYMBOL DESIGNATIONS

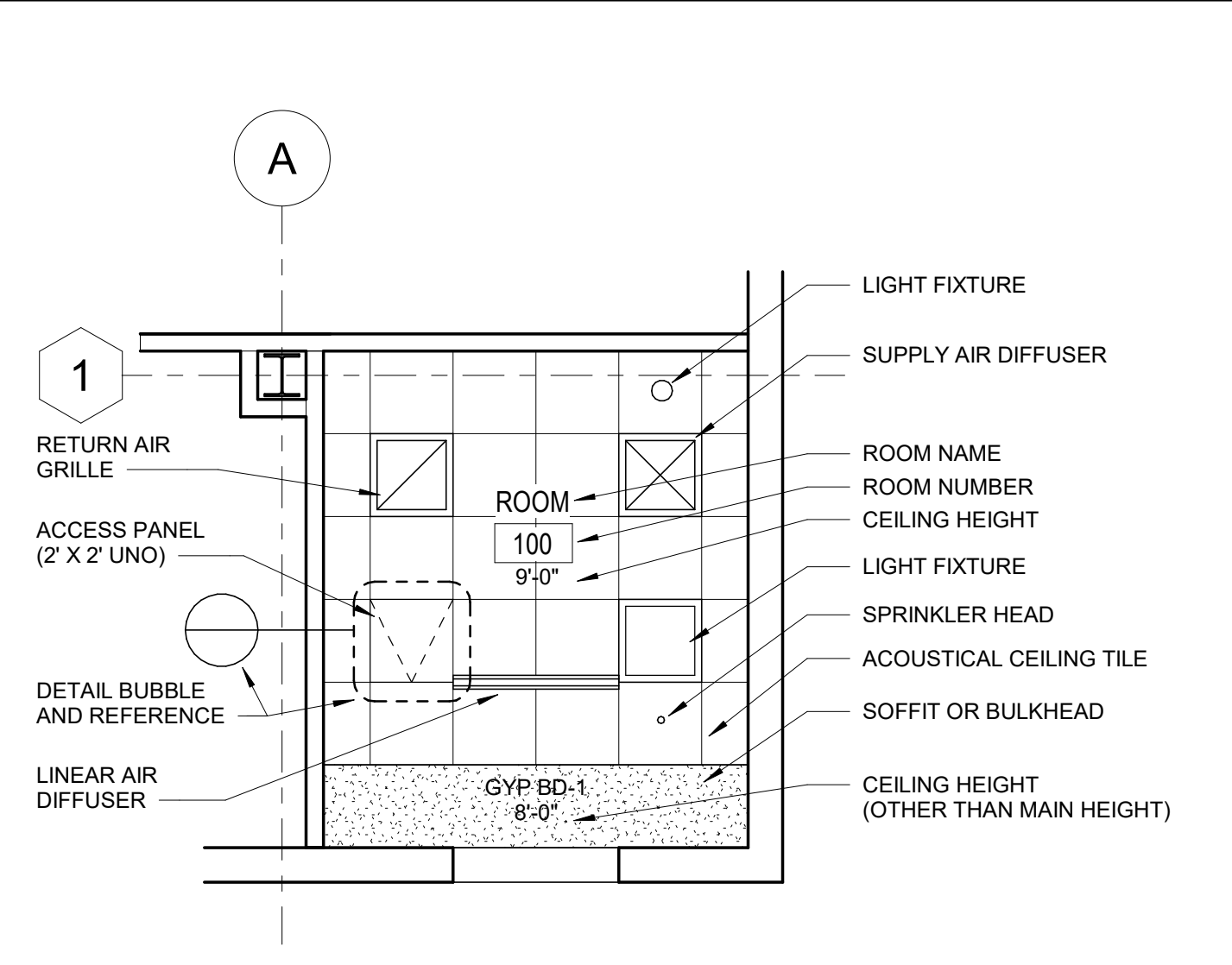
○ RECESSED CAN DOWNLIGHT	TV TV CONNECTION (SEE ELECTRICAL DRAWINGS)
⊙ RECESSED CAN WALL WASHER	HORN HORN (SEE ELECTRICAL DRAWINGS)
○ PENDANT MOUNTED LIGHT FIXTURE	TL TRACK LIGHT FIXTURE (SEE ELECTRICAL DRAWINGS)
○ CEILING-MOUNTED EXIT LIGHT (SEE ELECTRICAL DRAWINGS)	— EQUIPMENT MOUNTING TRACKS
⊙ WALL-MOUNTED EXIT LIGHT (SEE ELECTRICAL DRAWINGS)	• SPRINKLER HEAD
⊕ SMOKE DETECTOR (SEE ELECTRICAL DRAWINGS)	⊙ SPEAKER (SEE ELECTRICAL DRAWINGS)

OTHER FLOOR PLAN SYMBOL DESIGNATIONS

◊ EXISTING DOOR TO REMAIN	◊ EXISTING DOOR TO DEMO
— EXISTING WALL TO REMAIN	— EXISTING WALL TO DEMO

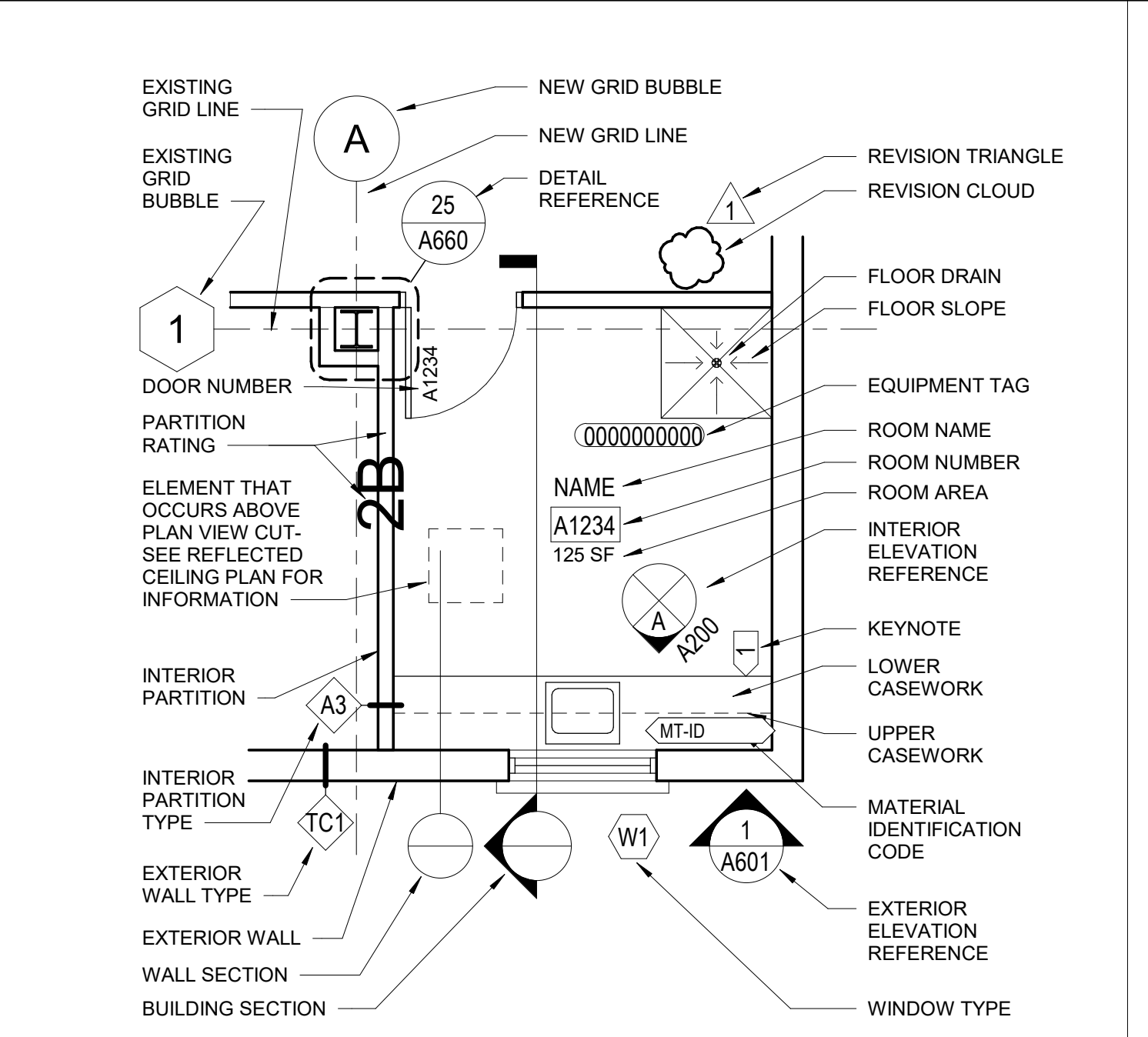
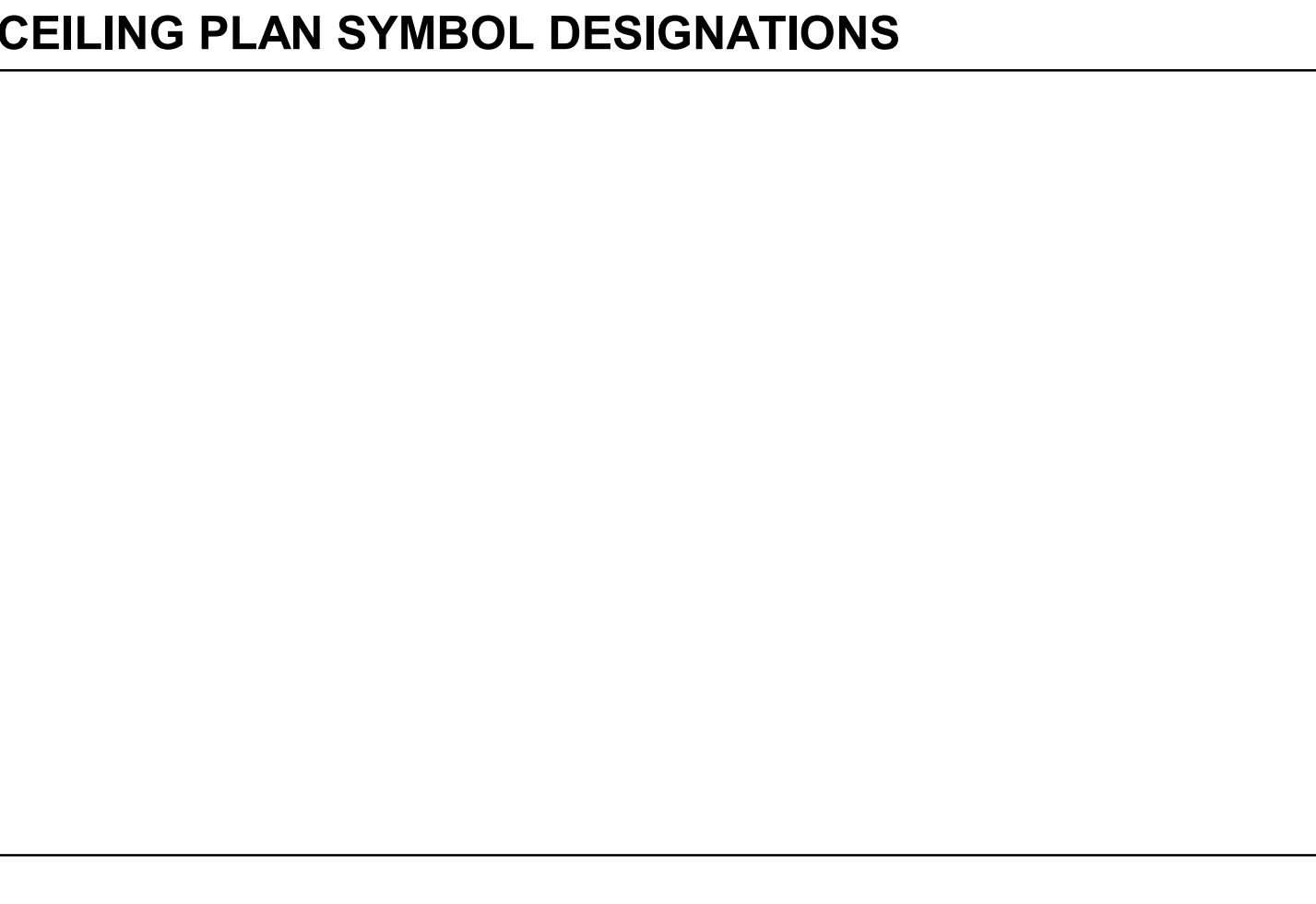
SPECIAL SYMBOLS

@	AT	⊥	PERPENDICULAR
C	CENTERLINE	#	NUMBER
φ	DIAMETER	/	PER
L	ANGLE(STRUCT. SHAPE)	±	PLUS/MINUS



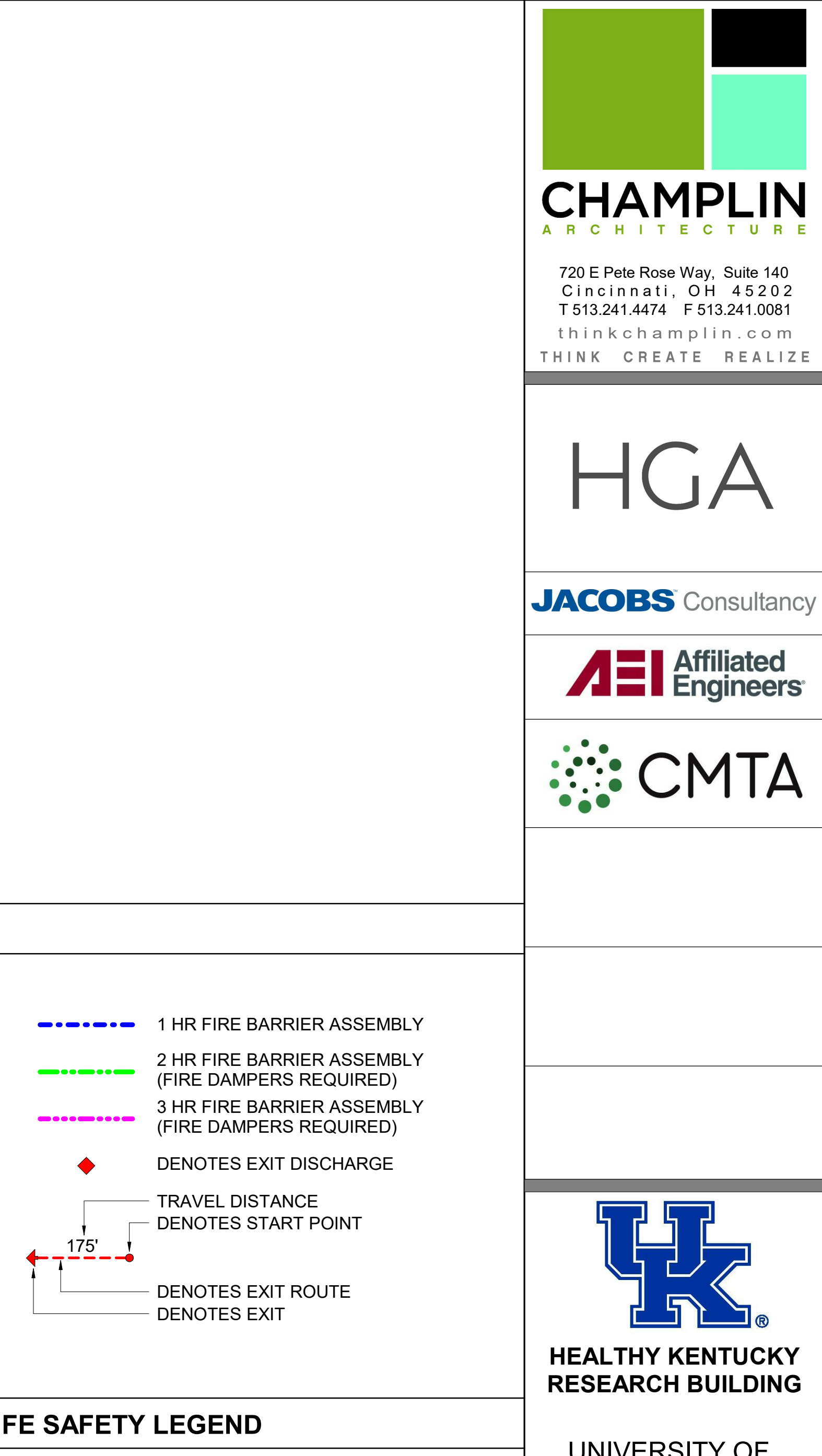
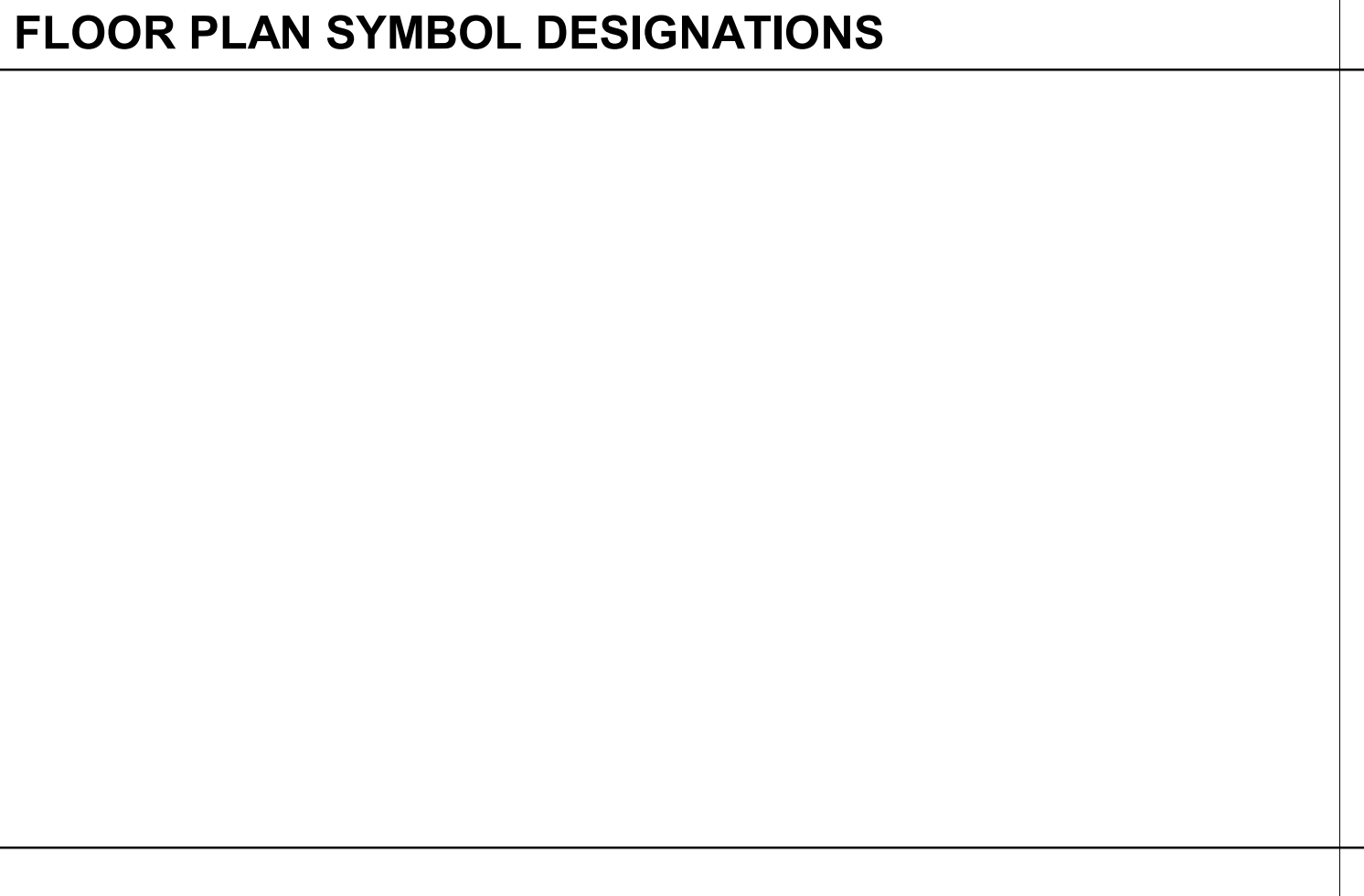
OTHER CEILING PLAN SYMBOL DESIGNATIONS

○ RECESSED CAN DOWNLIGHT	TV TV CONNECTION (SEE ELECTRICAL DRAWINGS)
⊙ RECESSED CAN WALL WASHER	HORN HORN (SEE ELECTRICAL DRAWINGS)
○ PENDANT MOUNTED LIGHT FIXTURE	TL TRACK LIGHT FIXTURE (SEE ELECTRICAL DRAWINGS)
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⊙ WALL-MOUNTED EXIT LIGHT (SEE ELECTRICAL DRAWINGS)	• SPRINKLER HEAD
⊕ SMOKE DETECTOR (SEE ELECTRICAL DRAWINGS)	⊙ SPEAKER (SEE ELECTRICAL DRAWINGS)



OTHER FLOOR PLAN SYMBOL DESIGNATIONS

◊ EXISTING DOOR TO REMAIN	◊ EXISTING DOOR TO DEMO
— EXISTING WALL TO REMAIN	— EXISTING WALL TO DEMO



GENERAL NOTES

A. THESE GENERAL NOTES APPLY TO THE CONSTRUCTION DOCUMENTS AND SHALL GOVERN UNLESS NOTED OTHERWISE BY GENERAL NOTES OR KEYNOTES ON SPECIFIC SHEETS.

B. COORDINATE ALL PROJECT PHASING WITH OWNER OR AS SPECIFIED AND/OR SHOWN ON THE DRAWINGS.

C. PROVIDE A SAFE MEANS OF EGRESS THROUGH AND/OR AROUND THE BUILDING AND SITE PER APPLICABLE CODES AT ALL TIMES DURING THE CONSTRUCTION PROCESS. MINIMIZE DISRUPTION TO ADJACENT AREAS/FLOORS AS MUCH AS POSSIBLE.

D. MINIMIZE NOISE TO LEVEL ACCEPTABLE WITH THE OWNER. SCHEDULE TASKS CREATING EXCESSIVE NOISE OR NEAR SENSITIVE AREAS WITH THE OWNER.

E. PROVIDE DUST CONTROL BETWEEN CONSTRUCTION AREAS AND OCCUPIED AREAS AT ALL TIMES AS SPECIFIED.

F. NOTIFY ARCHITECT PROMPTLY IF INFORMATION SHOWN IN ONE CONSTRUCTION DOCUMENT CONFLICTS WITH INFORMATION SHOWN ON ANOTHER.

G. NOTIFY ARCHITECT PROMPTLY IF CONSTRUCTION DOCUMENTS ARE INCONSISTENT WITH THE CURRENT APPLICABLE CODES AND REGULATIONS.

H. NOTIFY ARCHITECT PROMPTLY IF ANY EXISTING CONDITIONS CONFLICT WITH THE CONSTRUCTION DOCUMENTS.

J. STRUCTURAL STEEL MEMBER PROFILES AS INDICATED ON ARCHITECTURAL DRAWINGS MAY VARY FROM ACTUAL PROFILES AND SIZES INDICATED ON THE STRUCTURAL DRAWINGS WHICH SHALL GOVERN.

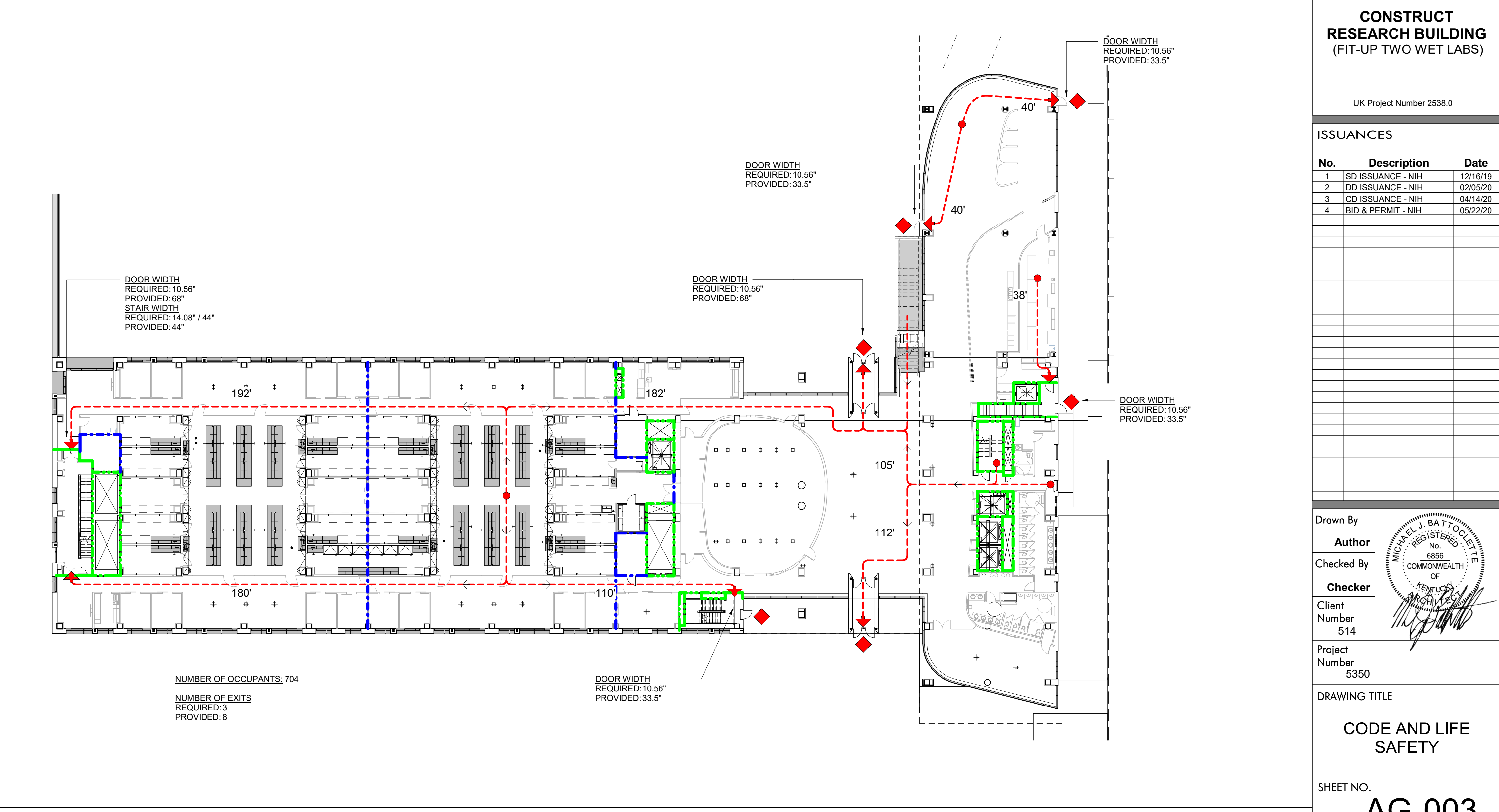
K. COORDINATE EXACT LOCATIONS OF LIGHT FIXTURES, SPEAKERS, SMOKE DETECTORS, EXIT LIGHTS, ACCESS PANELS, SPRINKLER HEADS, HVAC DUCTS, DIFFUSERS, REGISTERS, AND OTHER CEILING ITEMS WITH MECHANICAL, ELECTRICAL AND OTHER TRADES. NOTIFY ARCHITECT PROMPTLY IF ANY LOCATIONS CONFLICT WITH ARCHITECTURAL REFLECTED CEILING PLANS.

L. REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR FLOOR, WALL AND CEILING OPENINGS. ALL OPENINGS SHALL BE CUT AND PATCHED AS REQUIRED BY EACH DISCIPLINE OR TRADE REQUIRING THE OPENING UNLESS NOTED OTHERWISE IN THE CONSTRUCTION DOCUMENTS. PATCHING IS TO BE IN CONFORMANCE WITH APPLICABLE CODES.

M. PROVIDE BLOCKING OR BACKER MATERIAL FOR ATTACHMENT AND MOUNTING OF WALL HUNG ITEMS OR EQUIPMENT. FOLLOW DRAWING 4.3.2.3 STRAPPING REQUIREMENTS FOR ALL PARTITIONS WITH CASING AND DRAW 4.3.15 FOR GENERAL BLOCKING REQUIREMENTS. ALL WOOD BLOCKING SHALL BE FIRE RETARDANT TREATED (FRT).

ARCHITECTURAL MATERIAL DESIGNATIONS

ACUSTIC TILE	METAL
ASPHALT CONCRETE	PLASTER OR GYPSUM BOARD
BLANKET INSULATION	QUARRY TILE
CARPET (LARGE SCALE)	RIGID INSULATION
CERAMIC TILE	STONE - EXTERIOR
CONCRETE	SOLID WOOD FINISHED
CONCRETE MASONRY UNIT	TERRAZZO
EARTH	WOOD BLOCKING - CONTINUOUS
EXISTING CONSTRUCTION	WOOD BLOCKING - INTERRUPTED
FACEBRICK	WOOD SHEATHING
GRANULAR MATERIAL	MARBLE
GASKET (LARGE SCALE)	



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ISSUANCES

No.	Description	Date
1	SD ISSUANCE - NIH	12/19/19
2	DD ISSUANCE - NIH	02/05/20
3	CD ISSUANCE - NIH	04/14/20
4	BID & PERMIT - NIH	05/22/20

Drawn By	Author
Checked By	Checker
Client Number	514
Project Number	5350

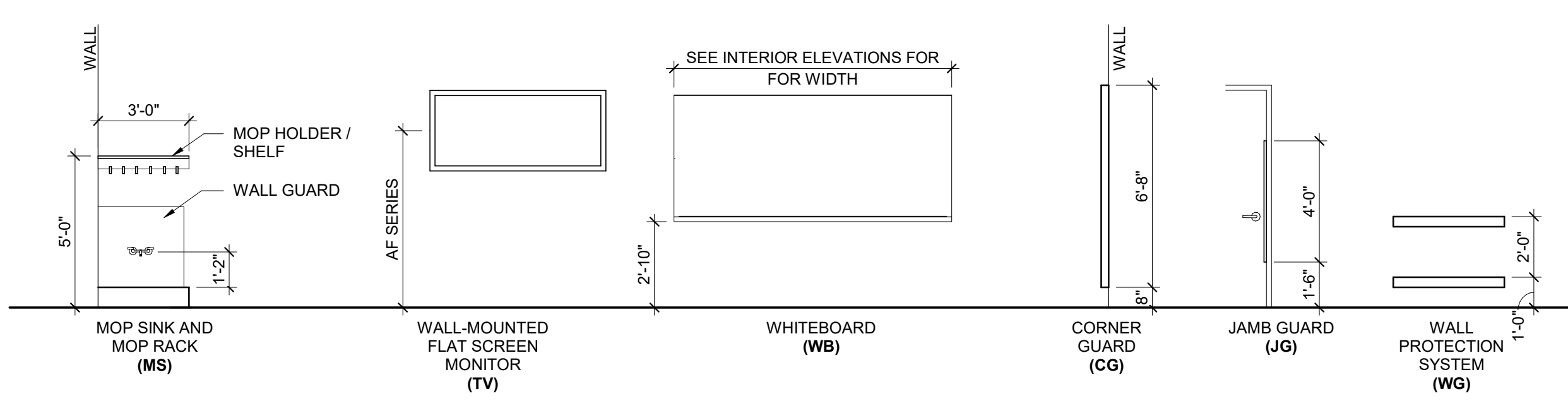
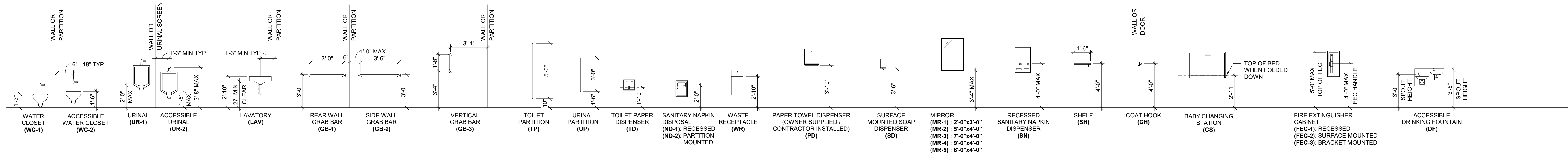
DRAWING TITLE
CODE AND LIFE SAFETY

SHEET NO.
AG-003

ISSUANCES

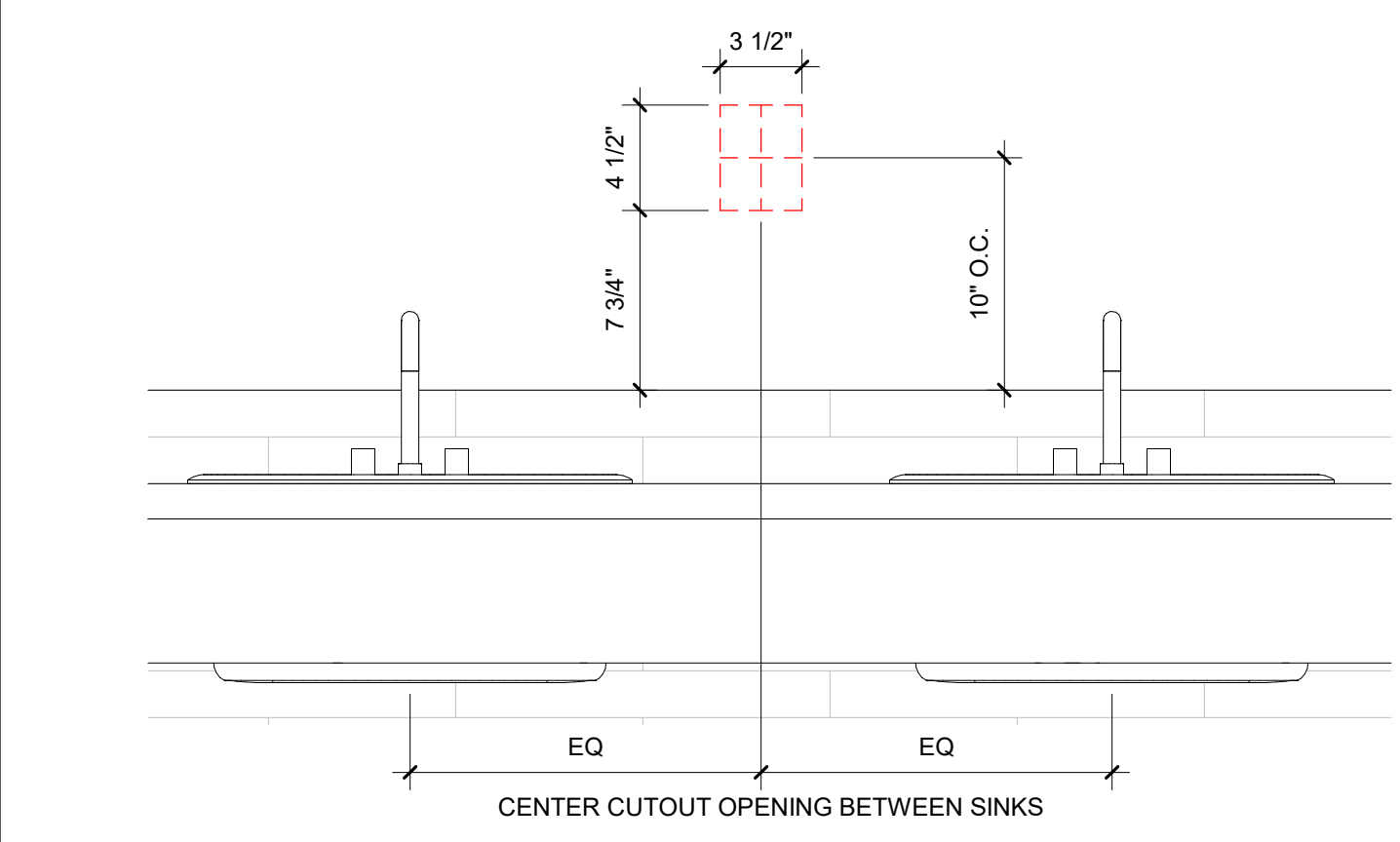
No.	Description	Date
1	PHASE 2 DD 100%	08/15/18
2	CD 100% REVIEW	10/15/18
3	ISSUE FOR BID & PERMIT	11/15/18
4	P2 - Addendum #1	01/16/19
5	DD ISSUANCE - NIH	02/05/20
6	CD ISSUANCE - NIH	04/14/20
7	BID & PERMIT - NIH	05/22/20

Drawn By	Author	Checked By	Checker	Client Number	514
Project Number	5350	DRAWING TITLE			
ACCESSORY MOUNTING HEIGHTS					
SHEET NO. AG-021					

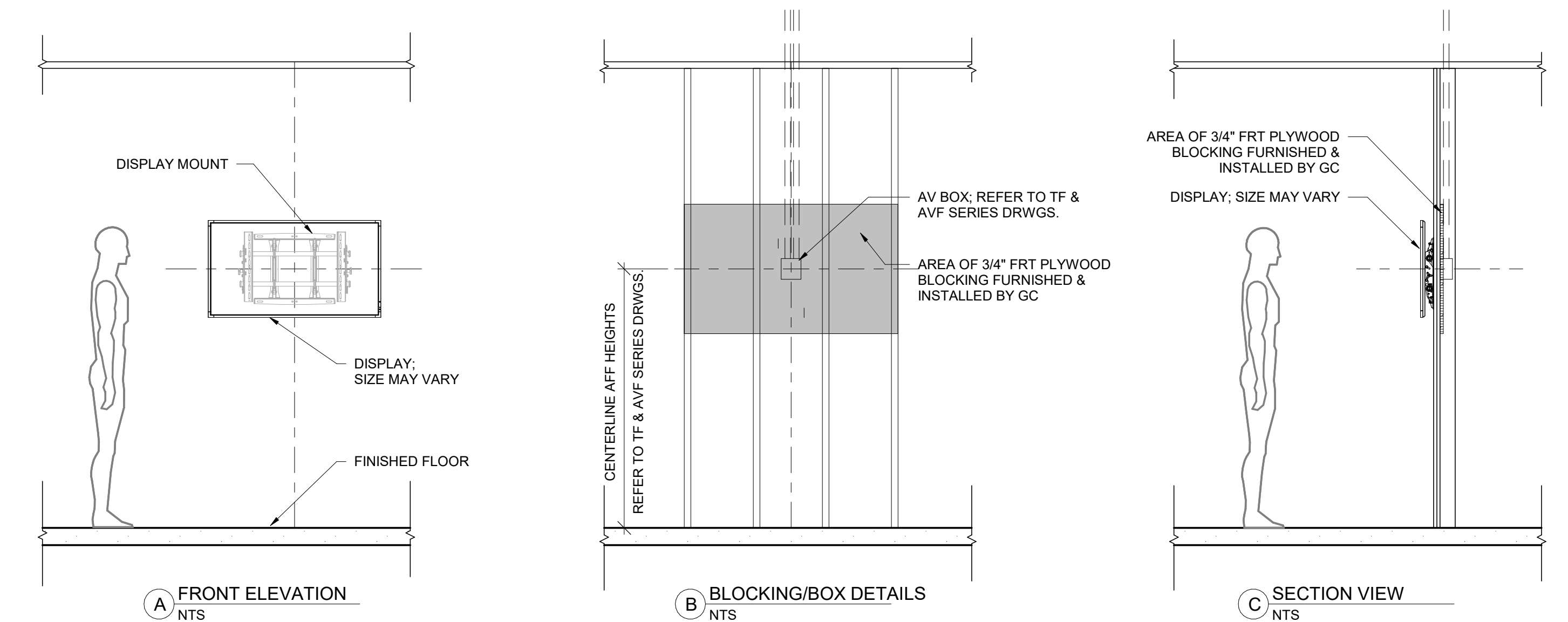


NOTE: TYPICAL MOUNTING HEIGHTS, UNLESS NOTED OTHERWISE

ACCESSORY MOUNTING HEIGHTS



TYPICAL SOAP DISPENSER MIRROR CUTOUT



WALL DISPLAY MOUNTING NOTES:
 1. REVIEW MAXIMUM WEIGHT TO BE INSTALLED ON DISPLAY BRACKET/MOUNT.
 2. THE WALL TO WHICH THE MOUNT & DISPLAY IS TO BE ANCHORED MUST BE CAPABLE OF SUPPORTING FIVE (5) TIMES THE TOTAL WEIGHT.
 3. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR THE CORRECT INSTALLATION PROCEDURES FOR THE MOUNT.
WARNING: IMPROPER INSTALLATION MAY RESULT IN SERIOUS PERSONAL INJURY!
 FOLLOW MANUFACTURER'S INSTALLATION DIRECTIONS COMPLETELY. THE STRUCTURAL SYSTEM AND MOUNTING METHOD MUST BE CAPABLE OF SUPPORTING 5 TIMES THE COMBINED WEIGHT OF THE TOTAL INSTALLATION.

WALL MOUNTED DISPLAY

D SERIES

MINIMUM STC: 50
GA: WP 1548

PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES	PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES
D1	1 5/8"	4 1/8"	1	D4	4"	6 1/2"	
D2	2 1/2"	5"	2	D6	6"	8 1/2"	
D3	3 5/8"	6 1/8"					

NOTES:
1. --

C SERIES

MINIMUM STC: 50
GA: WA 1021

PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES	PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES
C2	2 1/2"	4 3/8"		C6	6"	7 7/8"	
C3	3 5/8"	5 1/2"					
C4	4"	5 7/8"					

NOTES:
1. --

B SERIES

MINIMUM STC: 45
GA: WP 1070

PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES	PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES
B1	1 5/8"	2 1/4"	1	B4	4"	4 5/8"	2
B2	2 1/2"	3 1/8"	1	B6	6"	6 5/8"	2
B3	3 5/8"	4 1/4"	2				

NOTES:
1. PROVIDE BRACES TO BACK-UP AT 4'-0" ON CENTER MAXIMUM VERTICALLY
2. PROVIDE BRACES TO BACK-UP AT VERTICAL MIDPOINT OF STUD WHERE UNBRACED HEIGHT EXCEEDS 12'-0"

A SERIES

MINIMUM STC: 45
GA: WP 1070

PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES	PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES
A2	2 1/2"	3 3/4"		A6	6"	7 1/4"	
A3	3 5/8"	4 7/8"		A8	8"	9 1/4"	
A4	4"	5 1/4"					

NOTES:
1. --

D INTERIOR PARTITION TYPE- D SERIES
AG-070 1 1/2" = 1'-0"

MINIMUM STC: 45
GA: WP 7453

PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES	PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES
H2	2 1/2"	4 3/8"					
H4	4"	5 5/8"					
H6	6"	7 5/8"					

NOTES:
1. --

C INTERIOR PARTITION TYPE- C SERIES
AG-070 1 1/2" = 1'-0"

MINIMUM STC: 35
GA: WP 7008

PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES	PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES
G2	2 1/2"	3 1/8"					
G4	4"	4 5/8"					
G6	6"	6 5/8"					

NOTES:
1. --

B INTERIOR PARTITION TYPE- B SERIES
AG-070 1 1/2" = 1'-0"

MINIMUM STC: 50
GA: WP 7051

PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES	PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES
F2	2 1/2"	3 3/4"					
F4	4"	5 1/4"					
F6	6"	7 1/4"					

NOTES:
1. --

A INTERIOR PARTITION TYPE- A SERIES
AG-070 1 1/2" = 1'-0"

MINIMUM STC: 50
GA: WP 5015

PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES	PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES
E1	1 5/8"	-		E4	4"	-	
E2	2 1/2"	-		E6	6"	-	
E3	3 5/8"	-					

NOTES:
1. --

H INTERIOR PARTITION TYPE- H SERIES
AG-070 1 1/2" = 1'-0"

MINIMUM STC: 45
GA: WP 1070

PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES	PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES
N4	-	3 5/8"	1	N10	-	9 5/8"	1
N6	-	5 5/8"	1	N12	-	11 5/8"	1
N8	-	7 5/8"	1	N16	-	15 5/8"	1

NOTES:
1. FULLY GROUTED - FIRE RATING PER KBC TABLE 721.1(2),3

G INTERIOR PARTITION TYPE- G SERIES
AG-070 1 1/2" = 1'-0"

MINIMUM STC: 45
GA: WP 1070

PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES	PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES
M4	-	3 5/8"		M12	-	11 5/8"	
M6	-	5 5/8"		M16	-	15 5/8"	
M8	-	7 5/8"					

NOTES:
1. --

B INTERIOR PARTITION TYPE- B SERIES
AG-070 1 1/2" = 1'-0"

MINIMUM STC: 45
GA: WP 1070

PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES	PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES
K2	2 1/2"	3 3/4"		K6	6"	7 1/4"	
K3	3 5/8"	4 7/8"		K8	8"	9 1/4"	
K4	4"	5 1/4"					

NOTES:
1. --

A INTERIOR PARTITION TYPE- A SERIES
AG-070 1 1/2" = 1'-0"

MINIMUM STC: 55
GA: WP 2800

PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES	PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES
J1	1 5/8"	4 1/8"		J4	4"	6 1/2"	
J2	2 1/2"	5"		J6	6"	8 1/2"	
J3	3 5/8"	6 1/8"					

NOTES:
1. --

N INTERIOR PARTITION TYPE- N SERIES
AG-070 1 1/2" = 1'-0"

MINIMUM STC: 45
GA: WP 1070

PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES	PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES
U7	7/8"	1 1/2"	1	U2	2"	2 5/8"	2
U1	1"	1 5/8"	2	U3	3"	3 5/8"	2
U15	1 1/2"	2 1/8"	1 OR 2				

NOTES:
1. HAT CHANNELS
2. Z-FURRING CHANNELS

M INTERIOR PARTITION TYPE- M SERIES
AG-070 1 1/2" = 1'-0"

MINIMUM STC: 45
GA: WP 1070

PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES	PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES
S3	3 5/8"	5 3/8"					
S6	6"	7 3/4"					

NOTES:
1. --

B INTERIOR PARTITION TYPE- B SERIES
AG-070 1 1/2" = 1'-0"

MINIMUM STC: 45
GA: WP 1070

PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES	PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES
R8	-	7 5/8"		R16	-	15 5/8"	
R10	-	9 5/8"					
R12	-	11 5/8"					

NOTES:
1. --

A INTERIOR PARTITION TYPE- A SERIES
AG-070 1 1/2" = 1'-0"

MINIMUM STC: 45
GA: WP 1070

PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES	PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES
P6	-	5 5/8"		P12	-	11 5/8"	
P8	-	7 5/8"		P16	-	15 5/8"	
P10	-	9 5/8"					

NOTES:
1. --

U INTERIOR PARTITION TYPE- U SERIES
AG-070 1 1/2" = 1'-0"

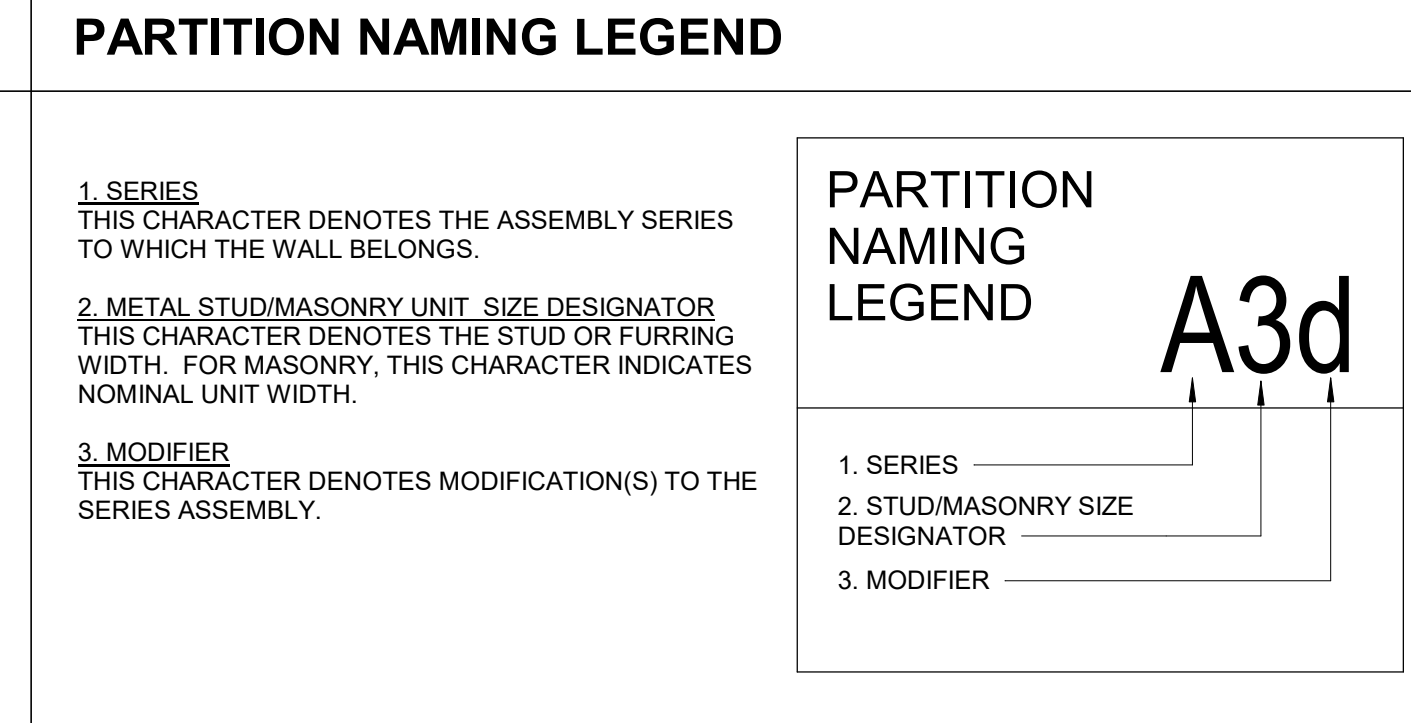
S INTERIOR PARTITION TYPE- S SERIES
AG-070 1 1/2" = 1'-0"

R INTERIOR PARTITION TYPE- R SERIES
AG-070 1 1/2" = 1'-0"

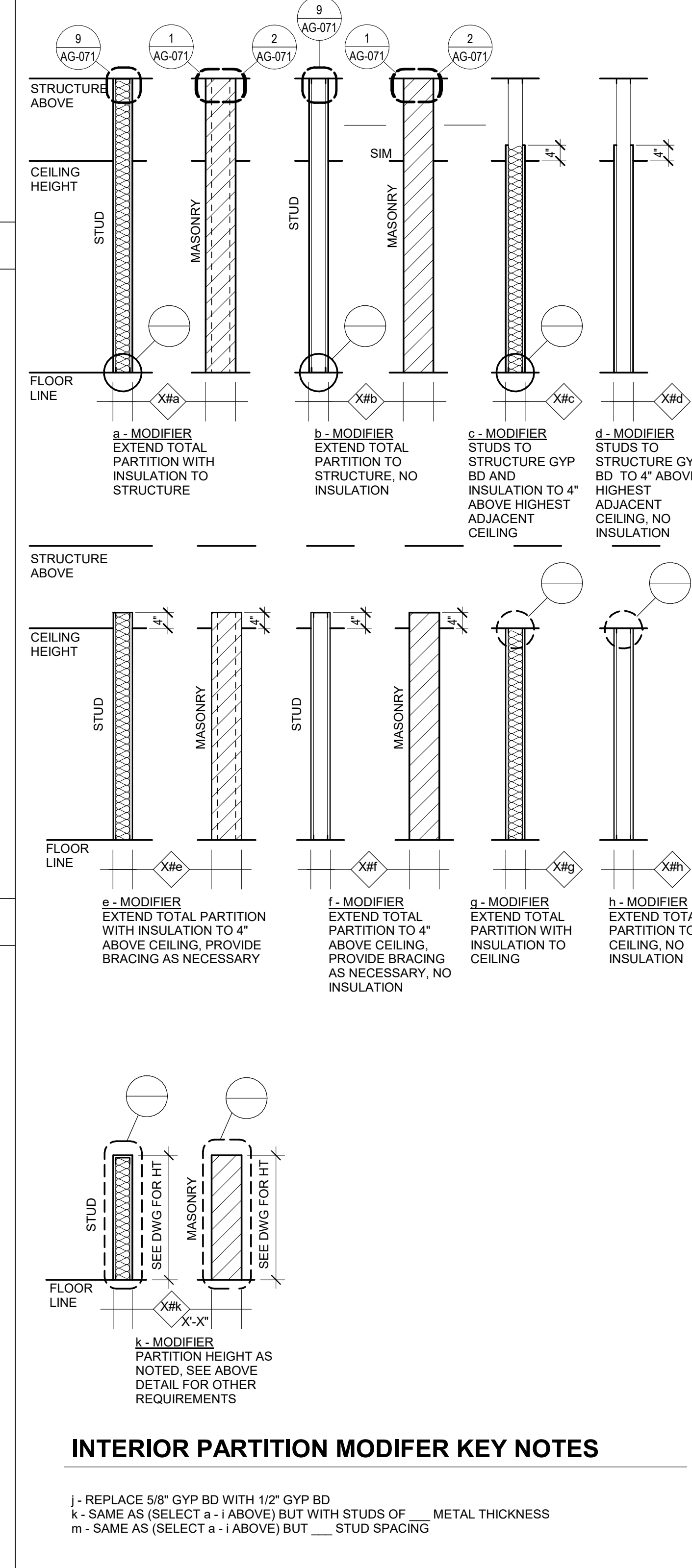
P INTERIOR PARTITION TYPE- P SERIES
AG-070 1 1/2" = 1'-0"

GENERAL NOTES - INTERIOR PARTITION

- MINIMUM STC RATINGS INDICATED ARE BASED ON PARTITION TYPE WITH "a" MODIFIER ONLY
- FILL EACH JOINT AND PENETRATION IN EACH PARTITION WITH INSULATION AND/OR ACOUSTICAL SEALANT TO ACHIEVE ACOUSTIC RATING (STC)
- TYPICAL FLOOR PLAN DIMENSIONS FOR PARTITIONS ARE TO FINISH FACE OF GYPSUM BOARD OR MASONRY UNLESS NOTED OTHERWISE. MAINTAIN DIMENSION BETWEEN FACE OF FINISHES
- "CLEAR" OR "HOLD" DIMENSION DENOTES MINIMUM CLEARANCE REQUIRED BETWEEN PARTITION FINISHES
- TYPICAL GYPSUM BOARD PARTITION WIDTH IS BASED ON 5/8" GYPSUM BOARD UNLESS NOTED OTHERWISE
- PARTITION TYPES SHOW GENERAL REQUIREMENTS FOR PARTITIONS. REFER TO SPECIFICATIONS, PRODUCT TECHNICAL DATA AND REQUIREMENTS OF APPLICABLE TESTING AGENCIES FOR SPECIFICS OF PARTITION CONSTRUCTION REQUIREMENTS
- PARTITION REQUIREMENTS SHOWN ARE MINIMUM STANDARDS. WHERE ACTUAL CONDITIONS CAUSE PARTITION(S) TO EXCEED LIMITS BY MANUFACTURER'S RECOMMENDATIONS, REINFORCE PARTITION(S) AS REQUIRED
- PROVIDE FIRESTOPPING AT PENETRATIONS AND CONNECTIONS TO ADJACENT ASSEMBLIES IN FIRE-RATED PARTITIONS COMPLIANT WITH APPLICABLE TESTING AGENCY REQUIREMENTS
- PROVIDE BLOCKING OR BACKER MATERIAL FOR ATTACHMENT AND MOUNTING OF WALL HUNG ITEMS OR EQUIPMENT. FOLLOW DIRM 4.3.2.1 STRAPPING REQUIREMENTS FOR ALL PARTITIONS WITH CASEWORK AND DIRM 4.3.1G FOR GENERAL BLOCKING REQUIREMENTS
- FIRE AND/OR ACOUSTIC TEST REFERENCES CALLED OUT MAY VARY DEPENDING ON THE MANUFACTURER OF COMPONENTS ACTUALLY USED
- PROVIDE WATER RESISTANT GYPSUM BOARD AT AREAS REQUIRED BY CODE AND WHERE FINISH WILL BE CERAMIC TILE UNLESS NOTED OTHERWISE
- PROVIDE TILE BACKER BOARD AT SHOWER AREAS AND AT OTHER WET AREAS WHERE FINISH WILL BE CERAMIC TILE
- ENSURE FINISH SURFACES ARE FLUSH AND SEAMLESS WHERE PARTITIONS AND/OR FURRING ARE COPLANAR
- UNLESS NOTED, THE CONNECTION AT THE TOP OF THE PARTITION TO THE STRUCTURE ABOVE MUST ALLOW FOR 1" MINIMUM VERTICAL MOVEMENT, EITHER UP OR DOWN AT FIRE RATED METAL STUD PARTITIONS. THE TOP CONNECTION MUST BE A FIRE STOP CONNECTION THAT ALLOWS 1" MINIMUM VERTICAL MOVEMENT, EITHER UP OR DOWN. HOLD GYPSUM WALL BOARD AND STEEL STUDS 1" FROM THE BOTTOM OF THE STRUCTURE ABOVE. DO NOT SCREW ATTACH STEEL VERTICAL STUDS OR GYPSUM WALL BOARD TO THE TOP TRACK. INSTALL BRIDGING 12" MINIMUM FROM THE TOP OF THE STUDS



INTERIOR PARTITION MODIFIER KEY



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HGA

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AEI Affiliated Engineers

CMTA

UK

HEALTHY KENTUCKY RESEARCH BUILDING

UNIVERSITY OF KENTUCKY
760 Press Avenue, Lexington, KY

CONSTRUCT RESEARCH BUILDING (FIT-UP TWO WET LABS)

UK Project Number 2538.0

ISSUANCES

No.	Description	Date
1	PHASE 2 DD 100%	08/15/18
2	CD 100% REVIEW	10/15/18
3	ISSUE FOR BID & PERMIT	11/15/18
4	P2 - Addendum #1	01/16/19
5	DD ISSUANCE - NIH	02/05/20
6	CD ISSUANCE - NIH	04/14/20
7	BID & PERMIT - NIH	05/22/20

Drawn By: _____
Author: _____
Checked By: _____
Checker: _____

Client Number: 514
Project Number: 5350

DRAWING TITLE: TYPICAL INTERIOR PARTITION TYPES

SHEET NO.: AG-070

5/19/2020 11:49:31 AM

ISSUANCES

No.	Description	Date
1	PHASE 2 DD 100%	08/15/18
2	CD 100% REVIEW	10/15/18
3	ISSUE FOR BID & PERMIT	11/15/18
4	P2 - Addendum #1	01/16/19
5	SD ISSUANCE - NIH	12/16/19
6	DD ISSUANCE - NIH	02/05/20
7	CD ISSUANCE - NIH	04/14/20
8	BID & PERMIT - NIH	05/22/20

Drawn By: **Author**

Checked By: **Checker**

Client Number: 514

Project Number: 5350

DRAWING TITLE: **FLOOR PLAN - LEVEL ONE AREA 'B' FIT OUT**

SHEET NO.: **AI-251B**

5/19/2020 3:23:44 PM

KEYNOTE - FIT OUT

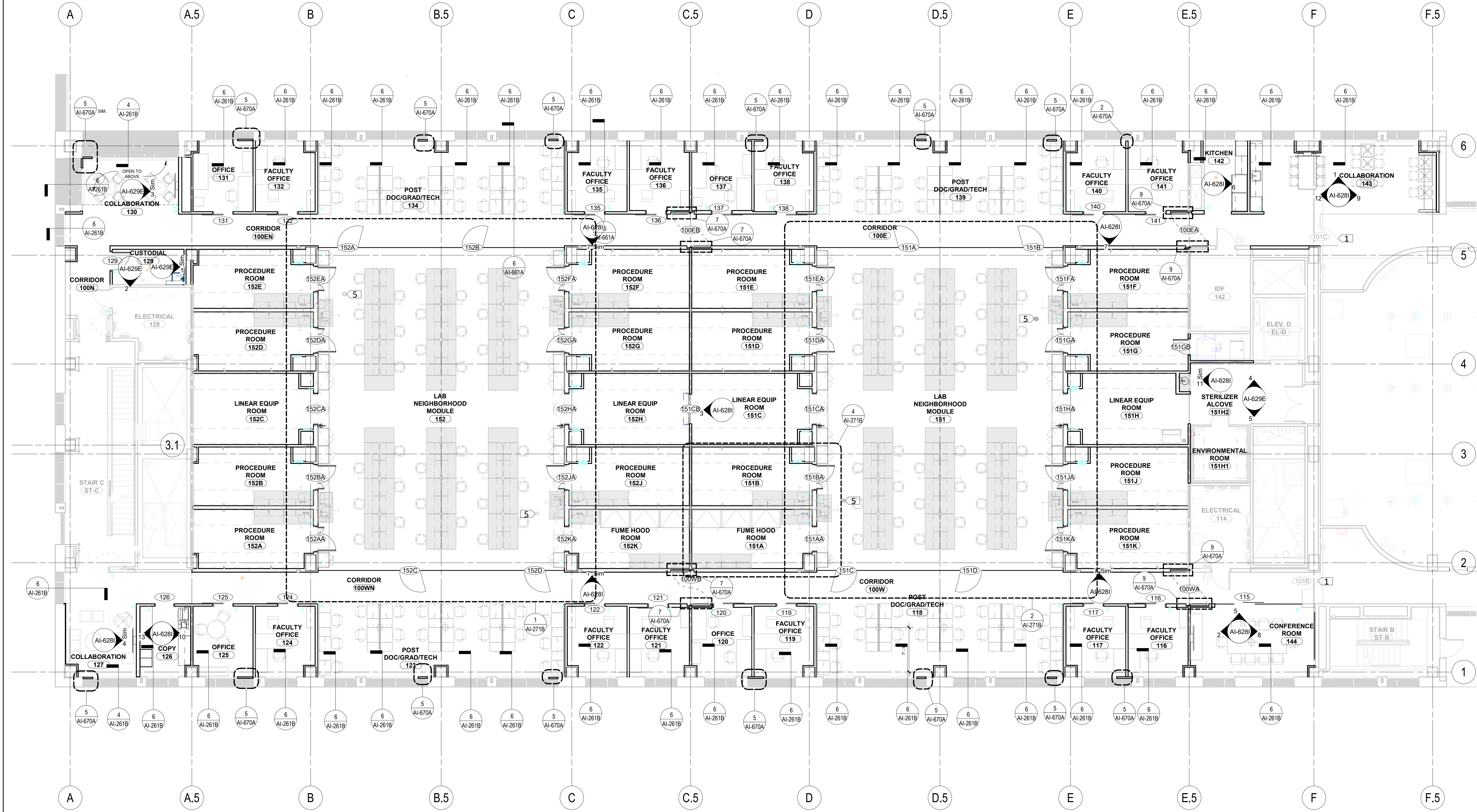
- EXISTING DOOR WITH EXISTING DOOR HARDWARE
- EXISTING DOOR TO REMAIN, CHANGE DOOR HARDWARE ONLY.
- ORNAMENTAL GLASS GUARDRAIL
- INSTALL OPAQUE FILM TO EXISTING GLASS (ISH2MAOW)
- FLOOR DRAIN WITH SAFETY SHOWER AT CEILING ABOVE
- FLOOR EXPANSION JOINT SYSTEM
- POKE-THROUGH FLOOR BOX, CORE FLOOR SLAB - COORDINATE WITH FURNITURE SELECTION PRIOR TO CORING OF SLAB
- CORE FLOOR SLAB FOR FUTURE POKE THRU FLOOR BOX; REFER TO E-SERIES DRWGGS. FOR FLOOR BOX & CONDUIT
- NEW CARD READER INSTALLED AT EXISTING DOOR. REMOVE ALL EXISTING WALL DEVICES.
- WAVE ACTIVATED DOOR ACTUATOR
- EXIT PUSH BUTTON (REX)
- REPLACE EXISTING EXIT PUSH BUTTON (REX); REFER TO DOOR SCHEDULE
- DOOR ACTUATOR; REFER TO HARDWARE SET FOR TYPE
- SCOPE OF WORK ONLY APPLIES TO FINISH SERIES SHEETS.
- NO WORK IN THIS AREA
- EXISTING DOOR HARDWARE CHANGES (PHASE 1 DOORS); REFER TO DOOR SCHEDULE
- REMOVE EXISTING GLASS WALL AND DOOR SYSTEM AND INSTALL NEW 1HR RATED GLASS WALL AND DOOR SYSTEM SIMILAR TO LEVEL 4; REFER TO 4/AI-725.
- REMOVE EXISTING DOOR; INSTALL 5 NEW DOUBLE TIER LOCKERS TO MATCH EXISTING
- REPLACE EXISTING HM DOOR AND FRAME
- REPLACE EXISTING DOOR AND DOOR HARDWARE; DOOR FRAME TO REMAIN IN PLACE. REFER TO DOOR SCHEDULE
- REMOVE EXISTING GLASS WALL AND DOOR SYSTEM; REPLACE WITH NEW GLASS WALL AND DOOR SYSTEM
- REMOVE EXISTING ALUM STOREFRONT DOORS; INSTALL NEW ALUM STOREFRONT DOORS WITH NEW DOOR HARDWARE
- 18" DEEP S.S. SHELVING; TWO ROWS
- REMOVE EXISTING DOOR, DOOR FRAME TO REMAIN
- SS GUARD TO PROTECT SAFETY SHOWER HANDLE; TYPICAL FOR LEVELS 2, 3, 4 AND 5. REFER TO DETAIL 9/AI628F
- REMOVE ALL EXISTING MEP DEVICES
- PREP DOOR SYSTEM FOR EXISTING CARD READER
- 5/8" GYP BOARD WITH 5-1/2" ACOUSTIC BATTS; CONTINUE TO UIS OF STRUCTURE
- NEW BIOMETRIC EYE SCANNER NEXT TO EXISTING CARD READER
- GYPSUM COLUMN WRAP
- EXPOSED CONCRETE COLUMN
- REMOVE EXISTING DOOR AND CUT SECTION OF EXISTING WALL FOR NEW OPENING

GENERAL NOTES - FIT-OUT PLANS

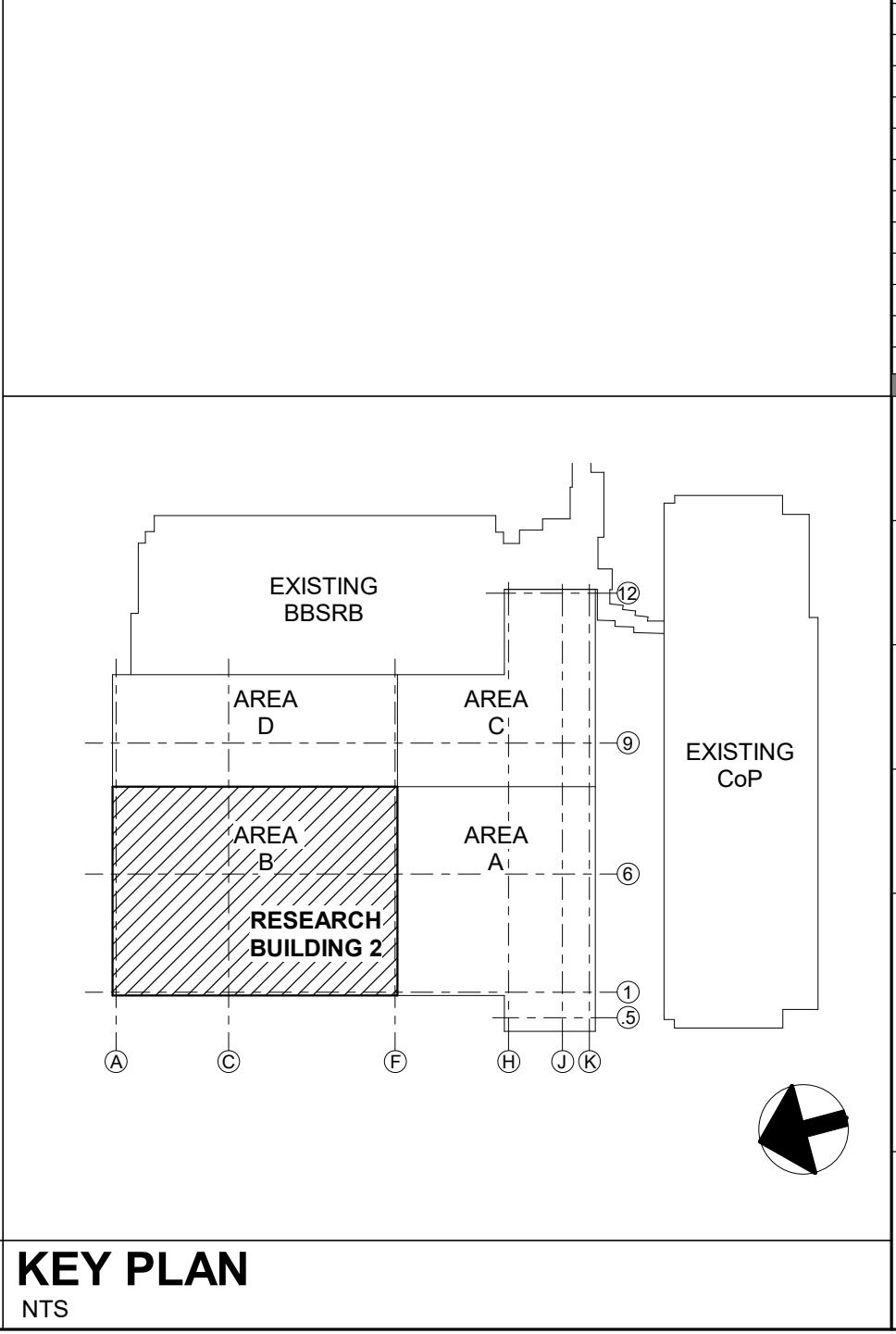
- UNFORESEEN OR UNCLEAR CONDITIONS SHALL BE REPORTED TO THE ARCHITECT PRIOR TO PROCEEDING WITH WORK
- ANY CONFLICTS WITHIN THE DRAWINGS, BETWEEN DRAWINGS AND SPECIFICATIONS, OR BETWEEN DRAWINGS AND ACTUAL SITE CONDITIONS SHALL BE REPORTED TO THE ARCHITECT IMMEDIATELY. THE CONTRACTOR SHALL NOT PROCEED WITH WORK UNTIL WRITTEN CLARIFICATION FROM THE ARCHITECT IS RECEIVED
- DO NOT SCALE DRAWINGS; DIMENSIONS SHALL GOVERN. ALL PLAN DIMENSIONS ARE TAKEN TO FINISH FACE OF CONSTRUCTION. SEE AG-680 FOR INTERIOR PARTITION TYPES. USE IMPACT RESISTANT GYPSUM BOARD FOR ALL GYPSUM BOARD WALL ASSEMBLIES IN VIVARIUM AREAS
- LAYOUT AND VERIFY ALL PARTITION LOCATIONS PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT OF ANY DISCREPANCIES IN DIMENSIONS OR CLEARANCES
- WHERE FINISH IS CONTINUOUS AT PARTITION TYPE TRANSITIONS, ENSURE THAT FINISH SURFACE IS FLUSH AND SEAMLESS
- THE GENERAL CONTRACTOR IS TO PROVIDE BLOCKING IN ALL METAL STUD PARTITIONS FOR ALL WALL MOUNTED EQUIPMENT AND ACCESSORIES. THE LOCATIONS, MOUNTING HEIGHTS AND BLOCKING REQUIREMENTS SHOWN HERE ON ARE GIVEN FOR INFORMATIONAL PURPOSES ONLY AND IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO VERIFY THIS INFORMATION WITH SUB-CONTRACTORS, MANUFACTURERS, OR EQUIPMENT SUPPLIERS. SEE TYPICAL BLOCKING DETAILS IN METAL STUD WALLS INCLUDED IN THESE DOCUMENTS FOR BLOCKING AND ANCHORING REQUIREMENTS
- ALL CONCEALED WOOD SHALL BE FIRE RETARDANT TREATED
- MECHANICAL, ELECTRICAL, AND PLUMBING ELEMENTS IN FINISHED AREAS ARE TO BE CONCEALED WITHIN THE CONSTRUCTION UNLESS OTHERWISE NOTED
- THE GENERAL CONTRACTOR SHALL COORDINATE WITH ALL OTHER DISCIPLINES TO DETERMINE THE SIZE AND LOCATION OF PENETRATIONS. SEAL CONSTRUCTION TIGHT TO ALL PENETRATIONS AND CAULK. ALL PENETRATIONS THROUGH FIRE RATED CONSTRUCTION MUST BE FIRE SAFED IN ACCORDANCE WITH THE SPECIFICATIONS
- PATCH ALL HOLES IN EXISTING SURFACES WHERE ELEMENTS HAVE BEEN REMOVED. PREPARE SURFACES FOR NEW FINISHES AS REQUIRED. OR PATCH TO MATCH ADJACENT SURFACE IF NO NEW FINISH IS SCHEDULED
- PROVIDE CONTROL JOINTS IN GYPSUM WALLBOARD INTERIOR PARTITIONS AT 90" FEET ON CENTER MAXIMUM WHERE POSSIBLE. LOCATE AT CORNERS ABOVE OPENINGS. VERIFY LOCATIONS WITH ARCHITECT. SEE THE ASSOCIATED TYPICAL DETAILS INCLUDED IN THESE DOCUMENTS
- FURNISH AND INSTALL SEALANT AT ALL FIXTURES AND CHANGES IN MATERIAL, AND AS REQUIRED BY THE APPLICABLE HEALTH DEPARTMENT
- DOOR OPENINGS NOT LOCATED BY DIMENSIONS SHALL BE 4" FROM FACE OF ADJACENT WALL TO EDGE OF DOOR FRAME
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL EQUIPMENT INSTALLATION, AND VERIFYING ALL REQUIRED ROUGH OPENINGS AND ROUGH-IN DIMENSIONS WITH THE EQUIPMENT MANUFACTURER, OWNER, AND ARCHITECT PRIOR TO CONSTRUCTION
- ALL MECHANICAL EQUIPMENT PADS TO BE 4" HIGH MINIMUM UNLESS NOTED OTHERWISE
- CHARACTER HEIGHT AND PROPORTION, FINISH AND CONTRAST, FRONT, BRILLE, AND PICTOGRAM TYPES AS INDICATED IN THESE DOCUMENTS. ROOM IDENTIFICATION SIGNAGE SHALL BE MOUNTED AT 60" ABOVE THE FINISHED FLOOR TO THE SIGN CENTERLINE, AND SHALL BE MOUNTED TO THE WALL AT THE LATCH SIDE OF THE DOOR.

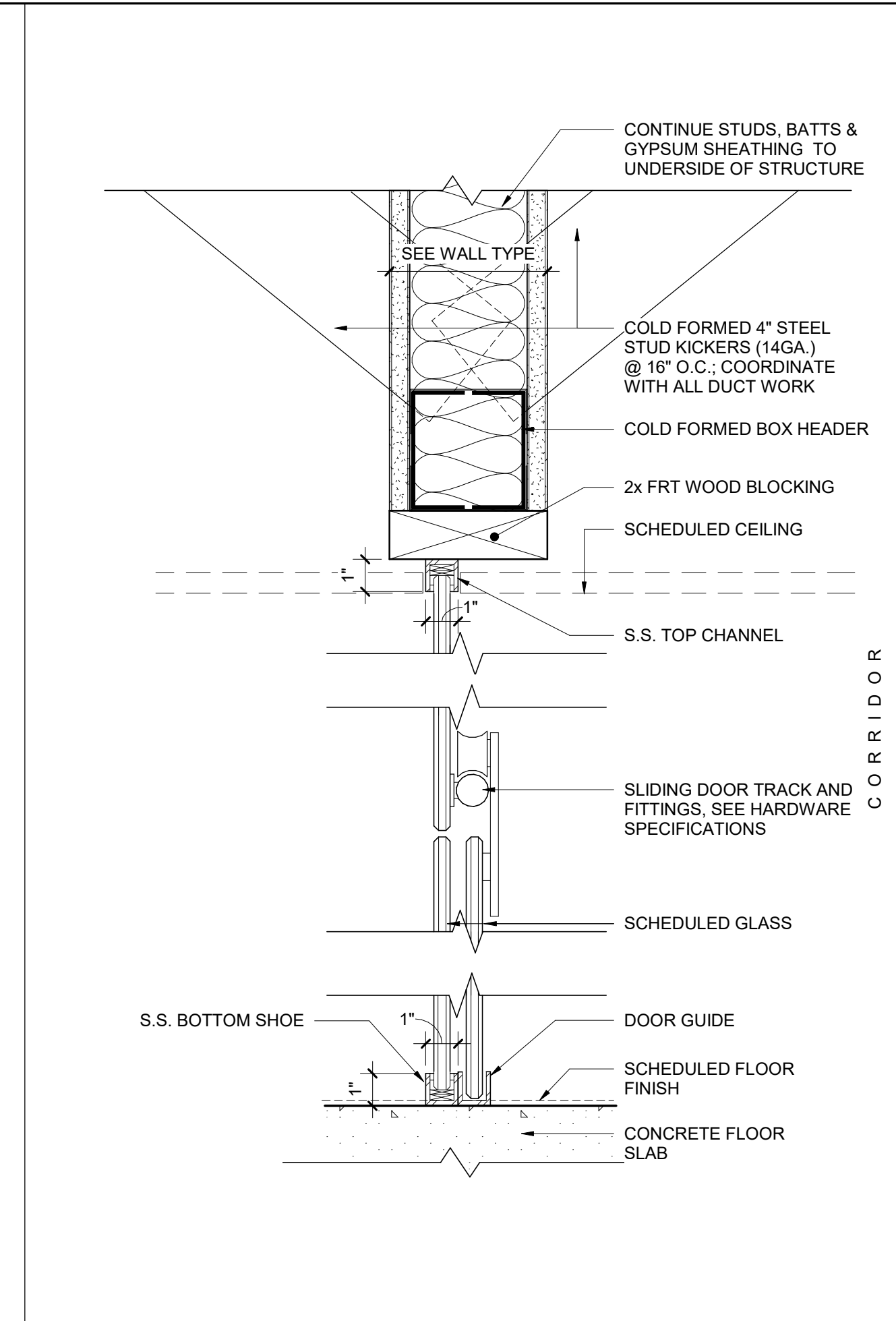
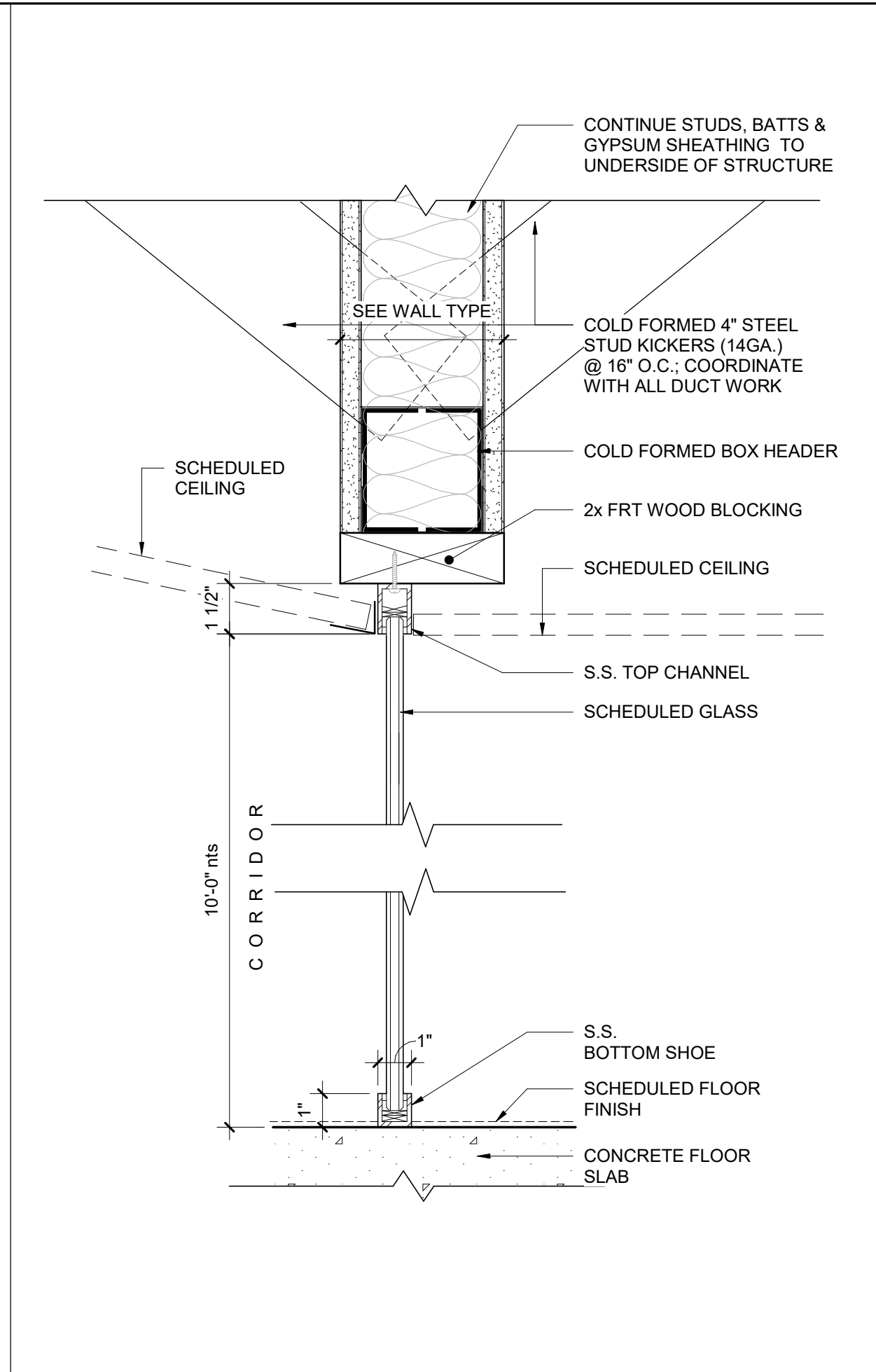
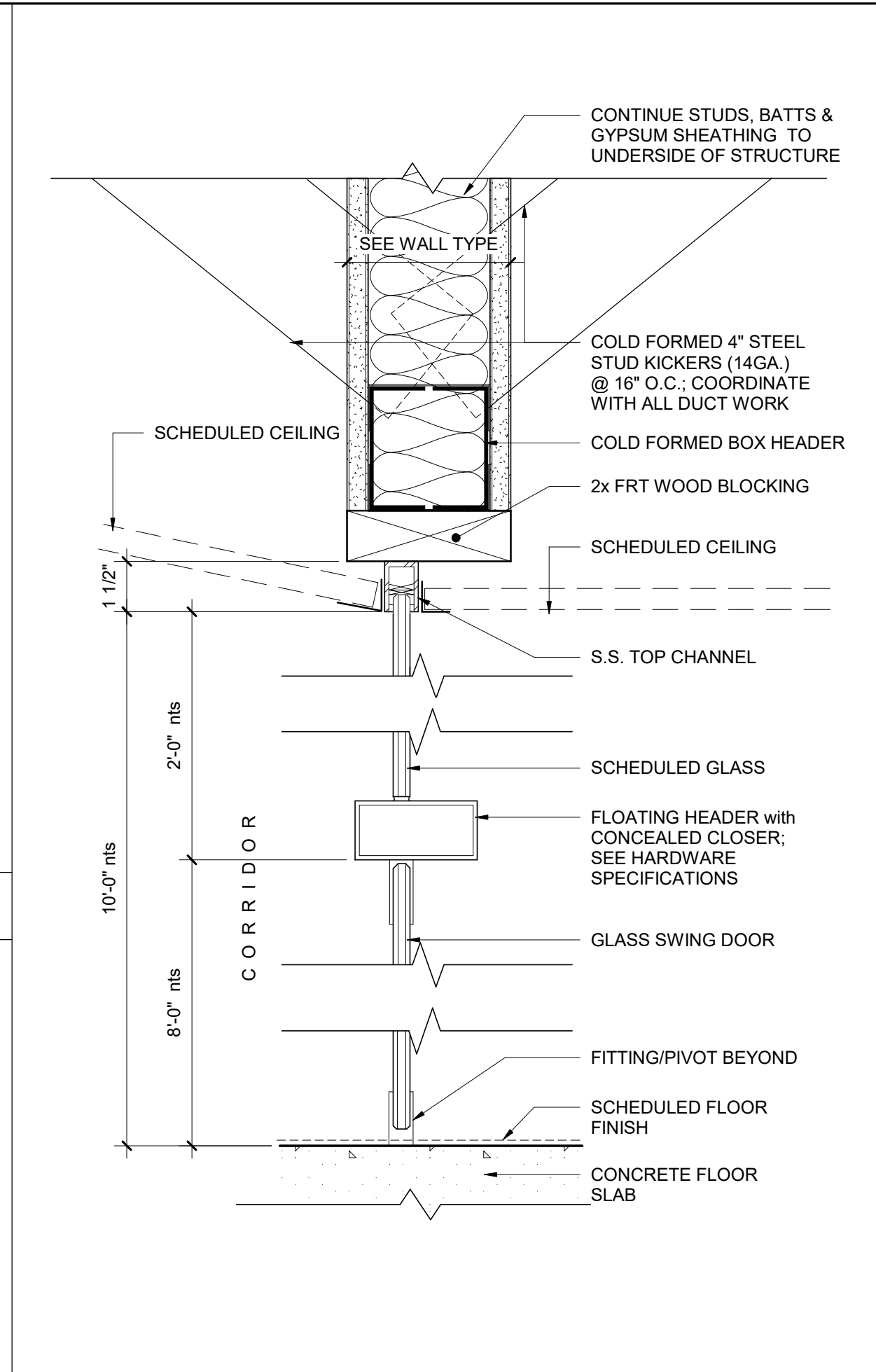
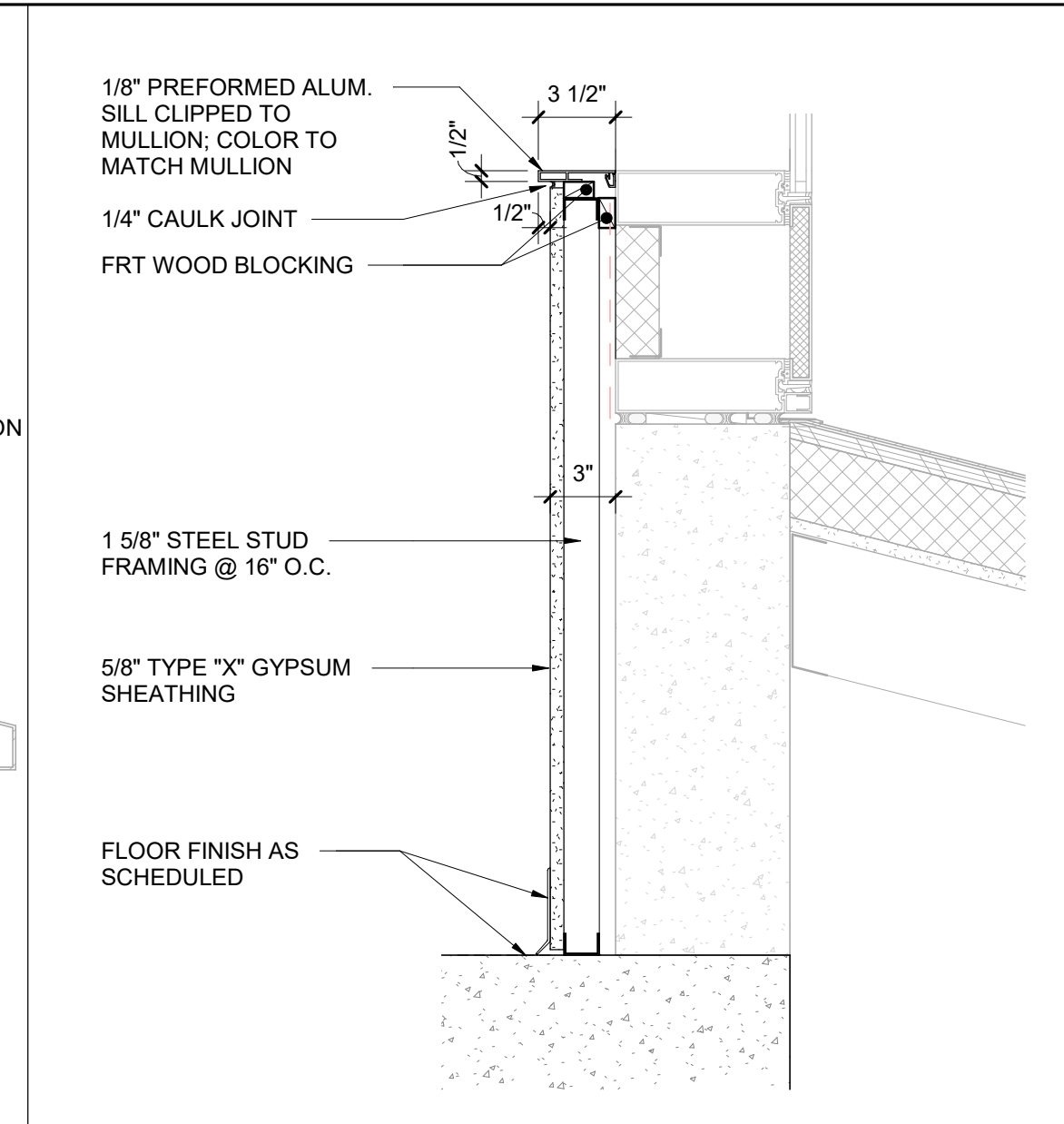
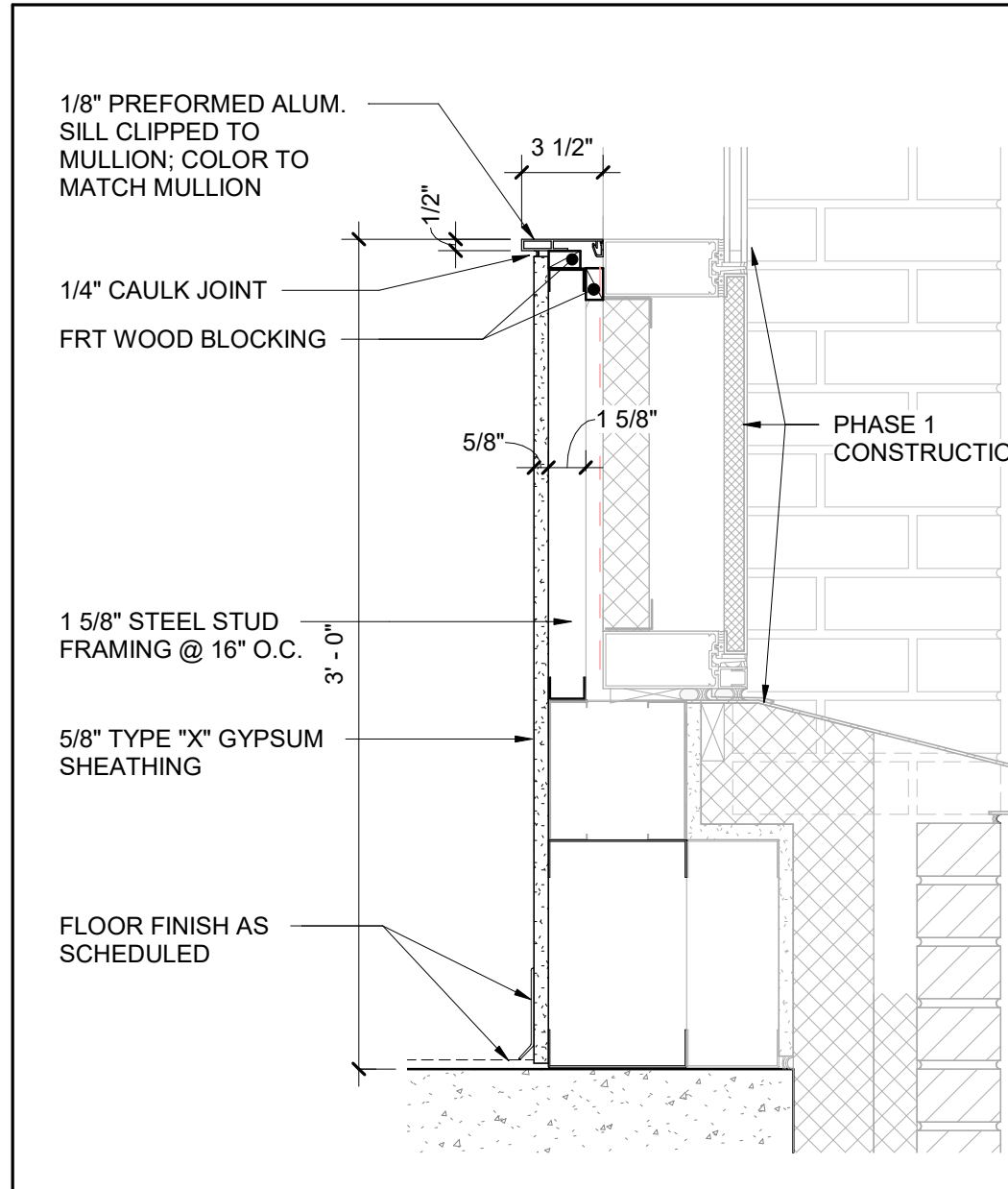
ROOM DATA

ROOM NUMBER	ROOM NAME	NASF	SPACE DESCRIPTION
100E	CORRIDOR	460 SF	
100EN	CORRIDOR	472 SF	
100N	CORRIDOR	83 SF	
100W	CORRIDOR	460 SF	
100WN	CORRIDOR	578 SF	
116	FACULTY OFFICE	117 SF	
117	FACULTY OFFICE	116 SF	
118	POST DOC/GRAD/TECH	509 SF	
119	FACULTY OFFICE	116 SF	
120	OFFICE	117 SF	FLEX OFFICE
121	FACULTY OFFICE	117 SF	
122	FACULTY OFFICE	116 SF	
123	POST DOC/GRAD/TECH	508 SF	
124	FACULTY OFFICE	116 SF	
125	OFFICE	118 SF	FLEX OFFICE
126	COPY	100 SF	
127	CORRIDOR	140 SF	
129	CUSTODIAL	72 SF	
130	COLLABORATION	322 SF	
131	OFFICE	118 SF	FLEX OFFICE
132	FACULTY OFFICE	116 SF	
134	POST DOC/GRAD/TECH	509 SF	
135	FACULTY OFFICE	116 SF	
136	FACULTY OFFICE	117 SF	
137	OFFICE	117 SF	FLEX OFFICE
138	FACULTY OFFICE	116 SF	
139	POST DOC/GRAD/TECH	508 SF	
140	FACULTY OFFICE	116 SF	
141	FACULTY OFFICE	118 SF	
142	KITCHEN	89 SF	
143	COLLABORATION	488 SF	
144	CONFERENCE ROOM	250 SF	
151	LAB NEIGHBORHOOD MODULE	2,258 SF	
151A	FUME HOOD ROOM	198 SF	
151B	PROCEDURE ROOM	190 SF	
151C	LINEAR EQUIP ROOM	231 SF	
151D	PROCEDURE ROOM	191 SF	
151E	PROCEDURE ROOM	192 SF	
151F	PROCEDURE ROOM	192 SF	
151G	PROCEDURE ROOM	191 SF	
151H	LINEAR EQUIP ROOM	225 SF	
151HI	ENVIRONMENTAL ROOM	99 SF	
151HZ	STERILIZER ALCOVE	88 SF	
151J	PROCEDURE ROOM	190 SF	
151K	PROCEDURE ROOM	198 SF	
152	LAB NEIGHBORHOOD MODULE	2,258 SF	
152A	PROCEDURE ROOM	196 SF	
152B	PROCEDURE ROOM	198 SF	
152C	LINEAR EQUIP ROOM	230 SF	
152D	PROCEDURE ROOM	189 SF	
152E	PROCEDURE ROOM	189 SF	
152F	PROCEDURE ROOM	192 SF	
152G	PROCEDURE ROOM	191 SF	
152H	LINEAR EQUIP ROOM	231 SF	
152J	PROCEDURE ROOM	190 SF	
152K	FUME HOOD ROOM	198 SF	
TOTAL NET SF		16,110 SF	



1 FLOOR PLAN - LEVEL 01 FIT OUT - AREA 'B'
AI-251B 1/8" = 1'-0"





- ### GENERAL NOTES - PARTITION PLANS
- UNFORESEEN OR UNCLEAR CONDITIONS SHALL BE REPORTED TO THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
 - ANY CONFLICTS WITHIN THE DRAWINGS, BETWEEN DRAWINGS AND SPECIFICATIONS, OR BETWEEN DRAWINGS AND ACTUAL SITE CONDITIONS SHALL BE REPORTED TO THE ARCHITECT IMMEDIATELY. THE CONTRACTOR SHALL NOT PROCEED WITH WORK UNTIL WRITTEN CLARIFICATION FROM THE ARCHITECT IS RECEIVED.
 - DO NOT SCALE DRAWINGS. DIMENSIONS SHALL GOVERN. ALL PLAN DIMENSIONS ARE TAKEN TO FINISH FACE OF CONSTRUCTION.
 - SEE AG-070 FOR INTERIOR PARTITION TYPES. USE IMPACT RESISTANT GYPSUM BOARD FOR ALL GYPSUM BOARD WALL ASSEMBLIES IN VIVARIUM AND CAGE WASH AREAS.
 - ALL PARTITION LOCATIONS PRIOR TO CONSTRUCTION, NOTIFY ARCHITECT OF ANY DISCREPANCIES IN DIMENSIONS OR CLEARANCES. WHERE FINISH IS CONTINUOUS AT PARTITION TYPE TRANSITIONS, ENSURE THAT FINISH SURFACE IS FLUSH AND SEAMLESS.
 - THE GENERAL CONTRACTOR IS TO PROVIDE BLOCKING IN ALL METAL STUD PARTITIONS FOR ALL WALL MOUNTED EQUIPMENT AND ACCESSORIES. THE LOCATIONS, MOUNTING HEIGHTS AND BLOCKING REQUIREMENTS SHOWN HEREON ARE GIVEN FOR INFORMATIONAL PURPOSES ONLY AND IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO VERIFY THIS INFORMATION WITH SUB-CONTRACTORS, MANUFACTURERS, OR EQUIPMENT SUPPLIERS. SEE TYPICAL BLOCKING DETAILS IN METAL STUD WALLS INCLUDED IN THESE DOCUMENTS FOR BLOCKING AND ANCHORING REQUIREMENTS.
 - ALL CONCEALED WOOD SHALL BE FIRE RETARDANT TREATED.
 - MECHANICAL, ELECTRICAL AND PLUMBING ELEMENTS IN FINISHED AREAS ARE TO BE CONCEALED WITHIN THE CONSTRUCTION UNLESS OTHERWISE NOTED.
 - THE GENERAL CONTRACTOR SHALL COORDINATE WITH ALL OTHER DISCIPLINES TO DETERMINE THE SIZE AND LOCATION OF PENETRATIONS, SEAL CONSTRUCTION TIGHT TO ALL PENETRATIONS AND CAULK. ALL PENETRATIONS THROUGH FIRE RATED CONSTRUCTION MUST BE FIRE SALED IN ACCORDANCE WITH THE SPECIFICATIONS.
 - PATCH ALL HOLES IN EXISTING SURFACES WHERE ELEMENTS HAVE BEEN REMOVED. PREPARE SURFACES FOR NEW FINISHES AS REQUIRED OR PATCH TO MATCH ADJACENT SURFACE IF NO NEW FINISH IS SCHEDULED. PROVIDE CONTROL JOINTS IN GYPSUM WALLBOARD INTERIOR PARTITIONS AT 30 FEET ON CENTER MAXIMUM, WHERE POSSIBLE, LOCATE AT CORNERS ABOVE OPENINGS. VERIFY LOCATIONS WITH ARCHITECT. SEE THE ASSOCIATED TYPICAL DETAILS INCLUDED IN THESE DOCUMENTS.
 - FURNISH AND INSTALL SEALANT AT ALL FIXTURES AND CHANGES IN MATERIAL, AND AS REQUIRED BY THE APPLICABLE HEALTH DEPARTMENT.
 - DOOR OPENINGS NOT LOCATED BY DIMENSIONS SHALL BE 4\"/>

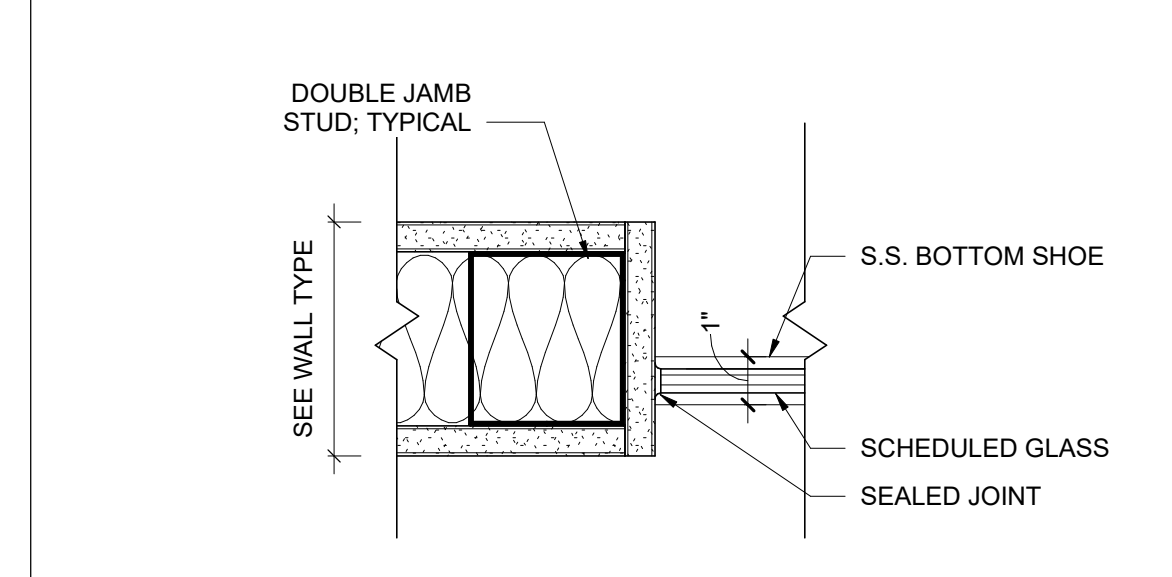
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AI-261B 1 1/2\"/>

4 CW RECESSED SILL LEVEL 1
AI-261B 1 1/2\"/>

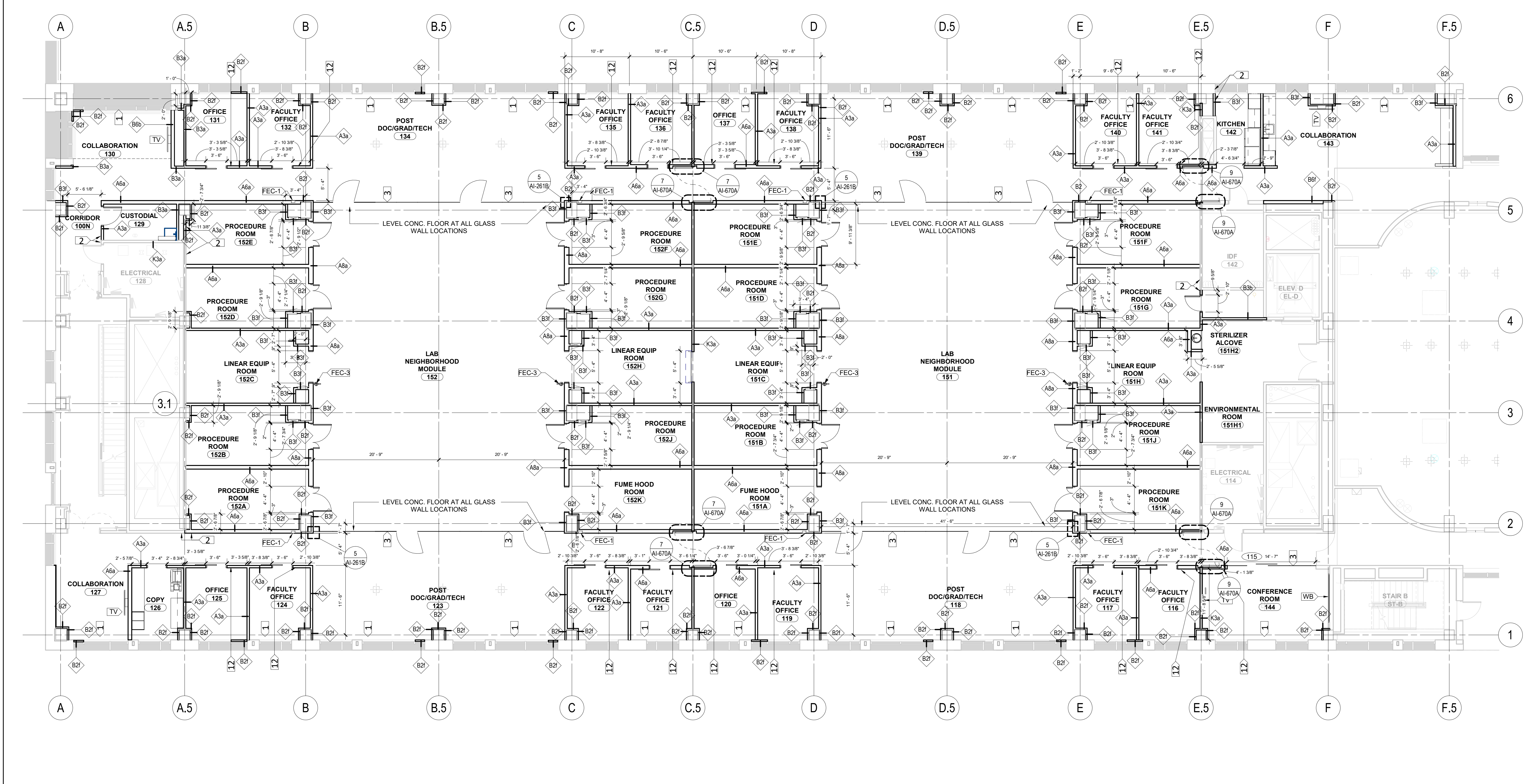
3 GW - HEAD & SILL - SWING GLASS DOOR
AI-261B 3\"/>

2 GW - HEAD & SILL - INTERIOR GLASS WALL
AI-261B 3\"/>

1 GW - HEAD & SILL - SLIDING GLASS DOOR
AI-261B 3\"/>



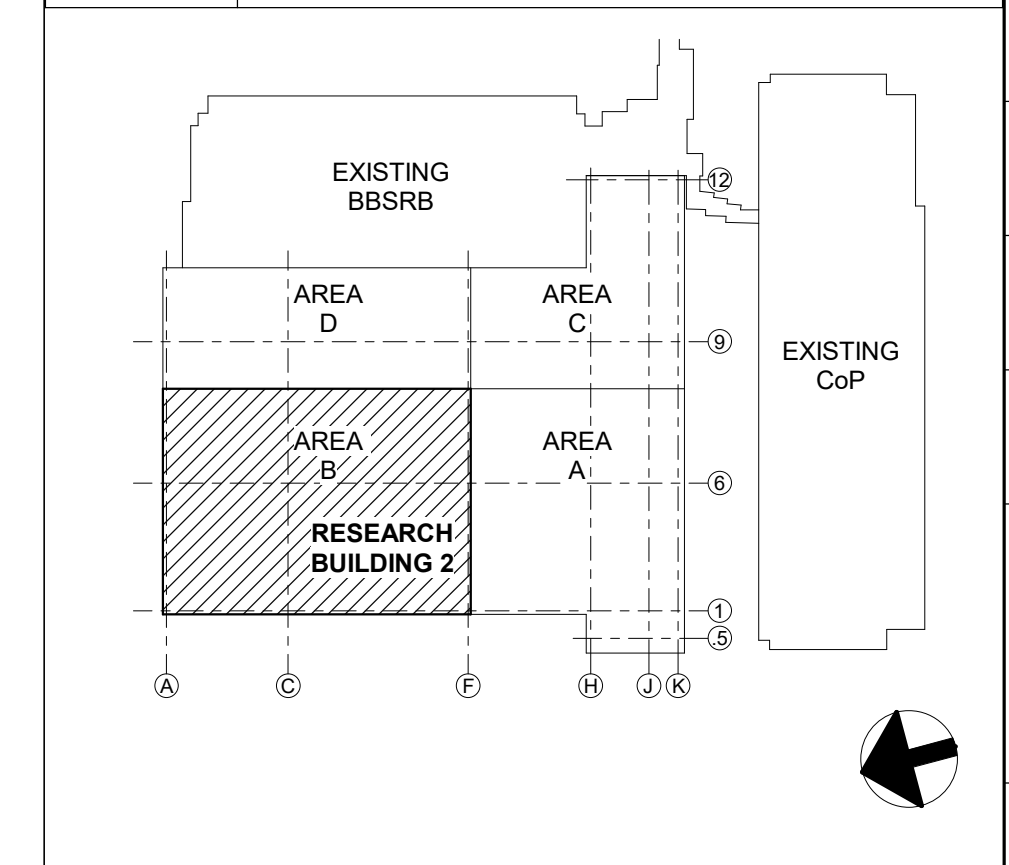
5 GW JAMB / TYPICAL
AI-261B 3\"/>



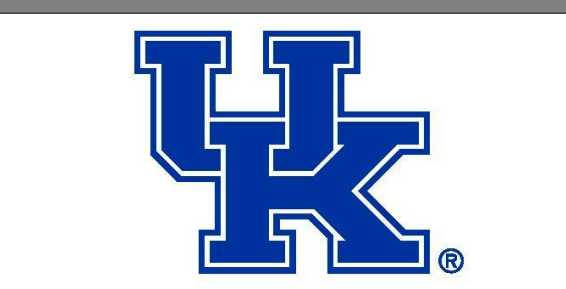
8 FLOOR PLAN - LEVEL ONE PARTITION PLAN - AREA 'B'
AI-261B 1/8\"/>

- ### ACCESSORIES LEGEND
- BCS BABY CHANGING STATION
 - CG CORNER GUARD, REFER TO AI-668
 - CR CARD READER
 - DF-1 ACCESSIBLE DRINKING FOUNTAIN
 - FB5 FRP BACKSPASH
 - FEC-1 RECESSED FIRE EXTINGUISHER CABINET
 - FEC-2 SURFACE MOUNTED FIRE EXTINGUISHER CABINET
 - FEC-3 BRACKET MOUNTED FIRE EXTINGUISHER
 - GB-1 REAR WALL GRAB BAR
 - GB-2 SIDE WALL GRAB BAR
 - GB-3 VERTICAL GRAB BAR
 - JG JAMB GUARD, DETAIL 6/04-668
 - LAV LAVATORY
 - MR-1 2'-0\"/>
 - MR-2 5'-0\"/>
 - MR-3 7'-6\"/>
 - MR-4 9'-0\"/>
 - MR-5 6'-0\"/>
 - MS MOP SINK AND MOP RACK
 - ND-1 RECESSED SANITARY NAPKIN DISPOSAL
 - ND-2 PARTITION MOUNTED SANITARY NAPKIN DISPOSAL
 - PD PAPER TOWEL DISPENSER (OWNER FURNISHED / CONTRACTOR INSTALLED)
 - PS PROJECTOR SCREEN
 - RR RECYCLING RECEPTACLE, OWNER PROVIDED
 - RS DIGITAL ROOM SCHEDULING SCREEN
 - SD SURFACE MOUNTED SOAP DISPENSER (OWNER FURNISHED / CONTRACTOR INSTALLED) W/ CUT OUT IN MIRROR. REFER TO AG-021 FOR CUTOUT DIMENSIONS.
 - SG STORAGE ADJUSTABLE SHELVING
 - SH SHELF
 - SR-3 60\"/>
 - TD TOILET PAPER DISPENSER
 - TP TOILET PARTITION
 - TV WALL MOUNTED FLAT SCREEN MONITOR
 - UP URINAL PARTITION
 - UR-1 URINAL
 - UR-2 ACCESSIBLE URINAL
 - WB WHITE BOARD
 - WC-1 WATER CLOSET
 - WC-2 ACCESSIBLE WATER CLOSET
 - WG WALL PROTECTION SYSTEM
 - WR WASTE RECEPTACLE

- ### KEYNOTE - PARTITION
- ALL EXTERIOR WALLS TO RECEIVE 5/8\"/>
 - ALIGN WALLS
 - PARTITION TYPE A6 CONTINUES ABOVE ALL-GLASS WALL; REFER TO DETAILS
 - MODULAR EQUIPMENT WALL. REFER TO QL-SERIES DRWGS.
 - EXIT PUSH BUTTON (REX)
 - THERMOSTAT TO BE INSTALLED ON LATCH SIDE OF DOOR.
 - REMOVE AND REPAIR EXISTING CALL BOX SYSTEM.
 - 5/8\"/>
 - FULL HEIGHT WALL PROTECTION BOARD
 - PROJECTOR CONTROLLER, SCREEN R/L SWITCH, CARD READER & MOTORIZED SHADES CONTROLLER DEVICES FINISH COLOR IS WHITE EXCEPT CARD READER (BLACK). SEE DETAIL 4/AI-271 FOR DEVICE LAYOUT.
 - TWO ROWS OF 4\"/>
 - 48\"/>



KEY PLAN
NTS



HEALTHY KENTUCKY RESEARCH BUILDING
UNIVERSITY OF KENTUCKY
760 Press Avenue, Lexington, KY

CONSTRUCT RESEARCH BUILDING (FIT-UP TWO WET LABS)
UK Project Number 2538.0

ISSUANCES

No.	Description	Date
1	DRP #5 - ASI #53	02/21/17
2	SD ISSUANCE - NIH	12/16/19
3	DD ISSUANCE - NIH	02/05/20
4	CD ISSUANCE - NIH	04/14/20
5	BID & PERMIT - NIH	09/22/20

Drawn By: [Signature]

Author: [Signature]

Checked By: [Signature]

Checker: [Signature]

Client Number: 514

Project Number: 5350

DRAWING TITLE: PARTITION PLAN - LEVEL ONE AREA 'B'

SHEET NO.: AI-261B

5/19/2020 11:50:28 AM



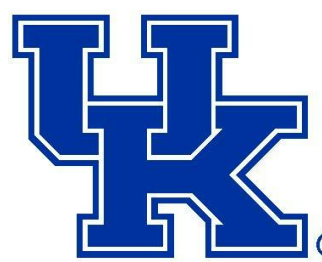
720 E Pete Rose Way, Suite 140
Cincinnati, OH 45202
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THINK CREATE REALIZE

HGA

JACOBS Consultancy

AEI Affiliated Engineers

CMTA



HEALTHY KENTUCKY
RESEARCH BUILDING

UNIVERSITY OF
KENTUCKY
760 Press Avenue, Lexington, KY

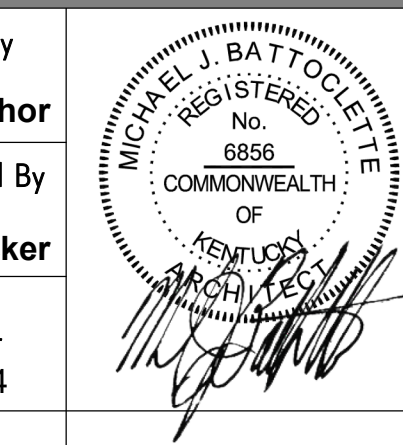
CONSTRUCT
RESEARCH BUILDING
(FIT-UP TWO WET LABS)

UK Project Number 2538.0

ISSUANCES

No.	Description	Date
1	DD ISSUANCE - NIH	02/05/20
2	CD ISSUANCE - NIH	04/14/20
3	BID & PERMIT - NIH	05/22/20

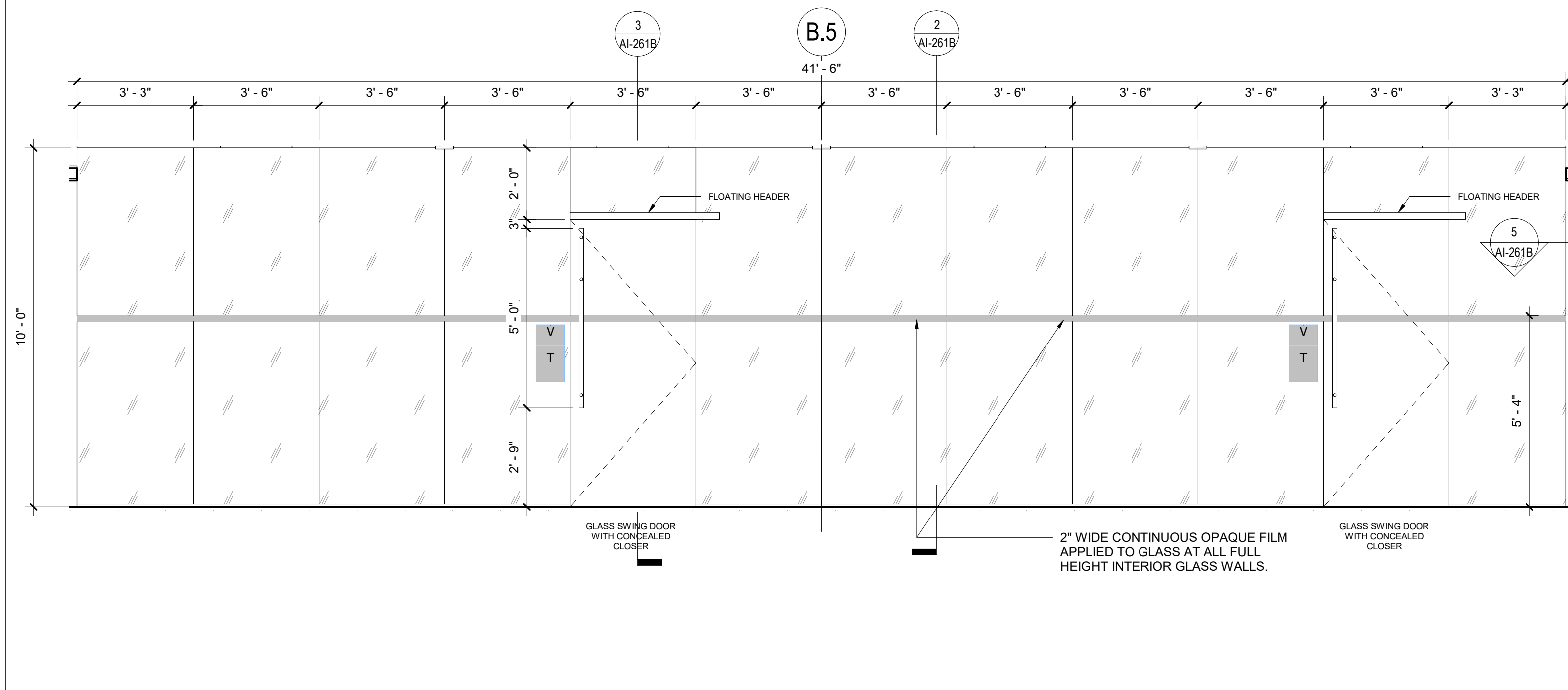
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Author
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Client Number 514
Project Number 5350



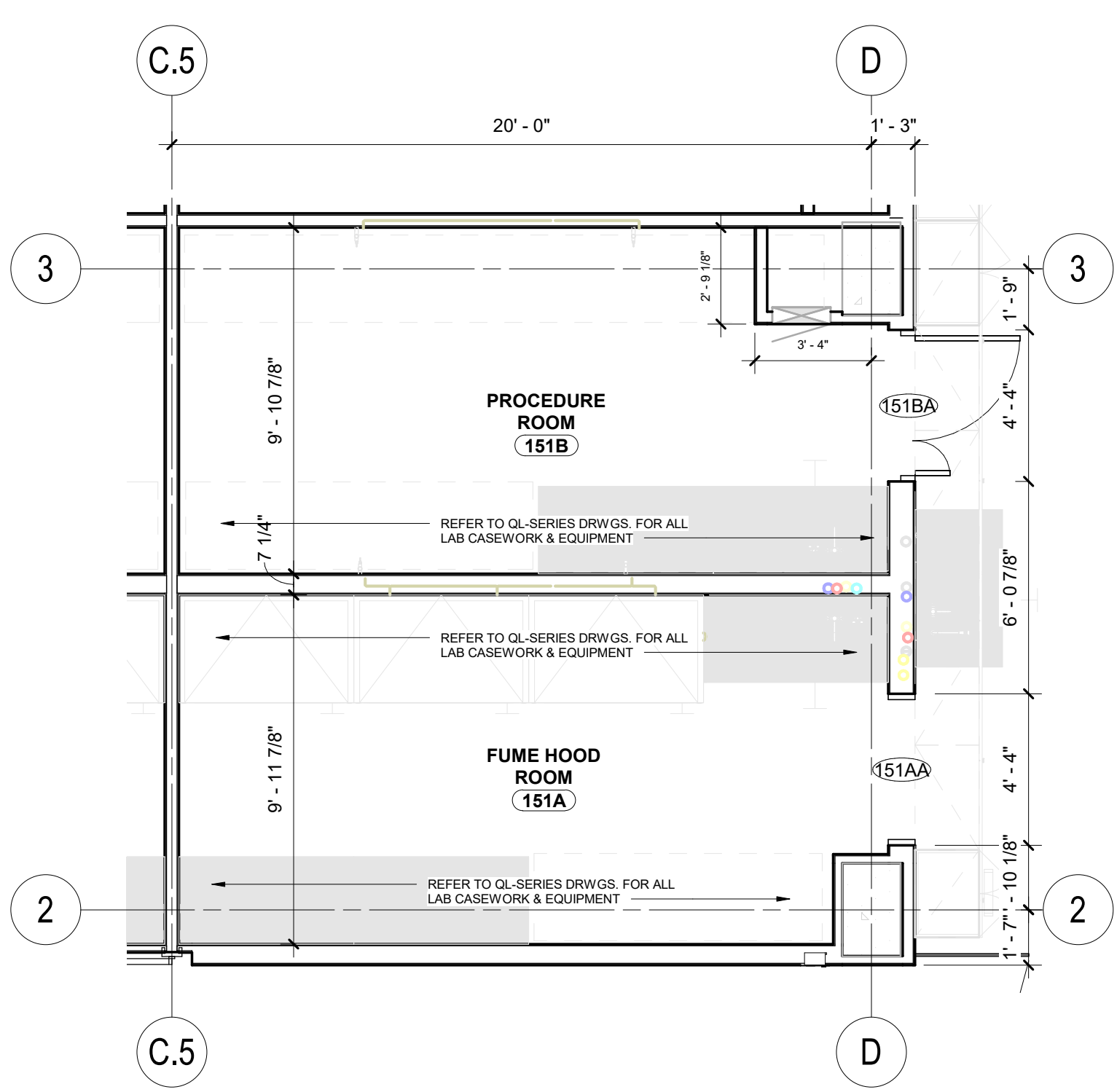
DRAWING TITLE

ENLARGED FLOOR
PLANS & ELEVATIONS

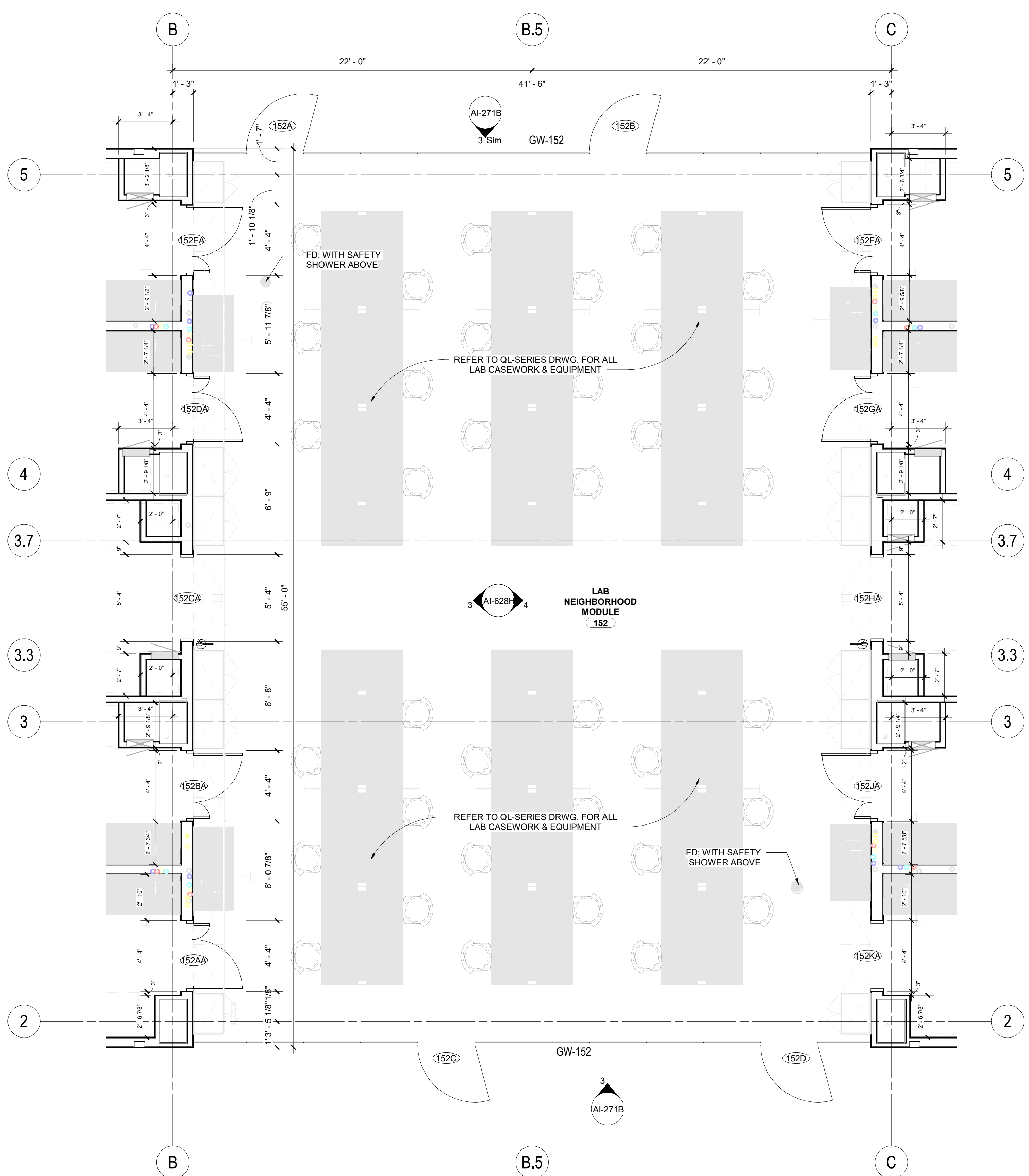
SHEET NO.
AI-271B



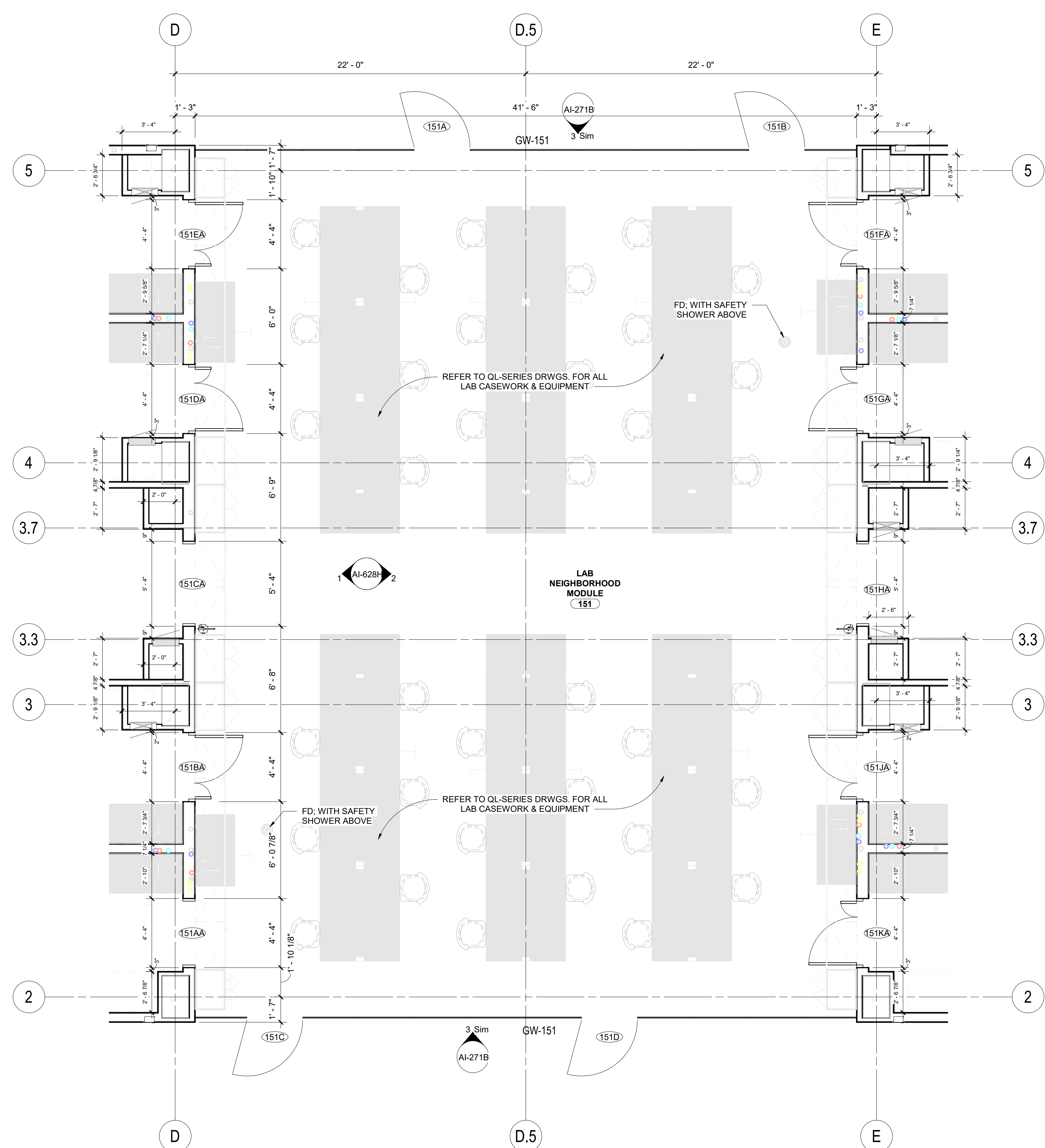
3 **GW-152 - WETLAB GLASS WALL ELEVATION**
3/8" = 1'-0"



4 **FLOOR PLAN - PROCEDURE ROOM & FUME HOOD ROOM**
1/4" = 1'-0"



1 **ENLARGED PLAN - WET LAB 152**
1/4" = 1'-0"



2 **ENLARGED PLAN - WET LAB 151**
1/4" = 1'-0"

5/19/2020 11:50:33 AM

No.	Description	Date
1	SD ISSUANCE - NIH	12/16/19
2	DD ISSUANCE - NIH	02/05/20
3	CD ISSUANCE - NIH	04/14/20
4	BID & PERMIT - NIH	05/22/20

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Client Number 514
Project Number 5350

DRAWING TITLE
FLOOR FINISH PLAN - LEVEL ONE AREA 'B'

SHEET NO.
AI-351B

15/19/2020 11:58:12 AM

GENERAL NOTES - FINISH PLANS

- SEE FLOOR PLANS FOR WALL TYPES.
- SEE ROOM FINISH SCHEDULE, INTERIOR ELEVATIONS, INTERIOR DETAILS, & CASEWORK DETAILS FOR ADDITIONAL INFORMATION. REFER TO AI-723 FINISH LEGEND FOR MATERIAL DESIGNATIONS AND BASIS OF DESIGN PRODUCT INFORMATION.
- PAINT HOLLOW METAL DOOR & FRAMES TO MATCH THE COLOR OF HOST WALL, UNO.
- FLOOR TRANSITIONS AT DOOR OPENINGS SHALL BE CENTERED ON THE DOOR PANEL, UNO.
- ALL MISCELLANEOUS PANELS, FIRE EXTINGUISHER CABINETS, EXPOSED DUCTING PARTS, CONDUIT, PIPES, LOUVERS, VENTILATION COVERS AND ANY EQUIPMENT FACTORY FINISHED, INCLUDING ASSOCIATED HARDWARE, SHALL BE PAINTED TO MATCH THE SURFACE ON WHICH IT OCCURS, UNO.
- ALL WALLS TO RECEIVE <PT-1>, UNO.
- ALL WALLS TO RECEIVE <RB-1>, UNO. ACCENT WALLS TO RECEIVE ACCENT WALL BASE.
- ALL COLLABORATION CASEWORK WALLS TO RECEIVE HIGH GLOSS FINISH WITHIN ALCOVE.
- ALL SHELL SPACES SHALL BE LEFT UNFINISHED. FLOORS SHOULD BE PREPARED FOR FUTURE INSTALL.
- <RSF-3> TO BE USED AS ACCENT FLOORING AT ALL EMERGENCY EYE WASH AND SAFETY SHOWER FIXTURES. SEE 12/AI-672.
- <RSF-3> TO BE USED AS ACCENT FLOORING AT LADDER STATIONS IN WET LAB. SEE 15/AI-672.
- CLEAR FLOOR AREAS AT LOWER LEVEL. REVIEW MARKINGS INDICATED ON PLAN WITH OWNER AFTER ALL FIXED EQUIPMENT HAS BEEN INSTALLED. FLOOR MARKING MATERIAL TO BE DETERMINED.
- ELEVATOR CAB FLOORING (NOT SHOWN ON PLAN) TO BE <TZO-1>.
- ALL CTW CORNER TRANSITIONS TO RECEIVE <CTA-2>.
- REFER TO 11/14/AI-672 FOR <RES-1> COVE BASE DETAIL; TO BE USED AT ALL LOCATIONS RECEIVING <RES-1> FLOORING, UNO.
- STAIRS E TO RECEIVE INTEGRATED LUMINOUS STAIR TREAD FOR ALL LEVELS BASEMENT THROUGH LEVEL 4, UNO; ALL LANDINGS IN STAIRS E TO RECEIVE RUBBER LUMINOUS NOSING.
- CONTRACTOR TO INCLUDE ALL PHOTOLUMINESCENT ITEMS PER CODE IN STAIRS E; REFER TO FINISH LEGEND AI-724 FOR ITEMS TO BE APPLIED.

GENERAL NOTES - FINISH PLANS PHASE 2
1/8" = 1'-0"

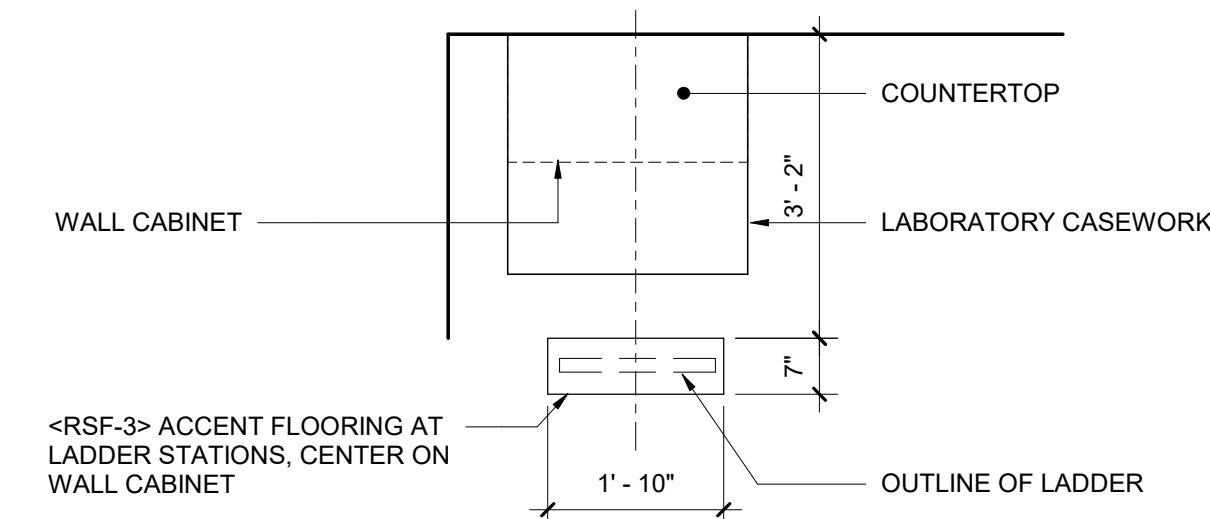
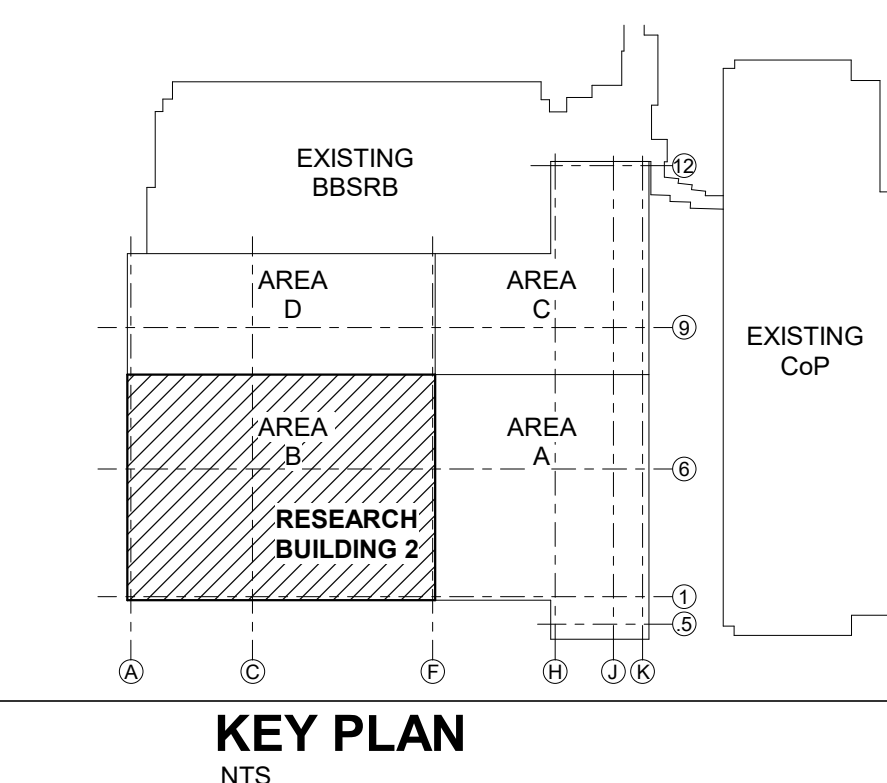
LEGEND - FINISH PLANS

	CPT-52		RES-1
	CS-1		RES-2
	CS-2		RSF-1
	CTF-1		RSF-2
	CTF-2		RSF-3
	CTF-3		RSF-4
	TZO-1		VCT
	WM-1		

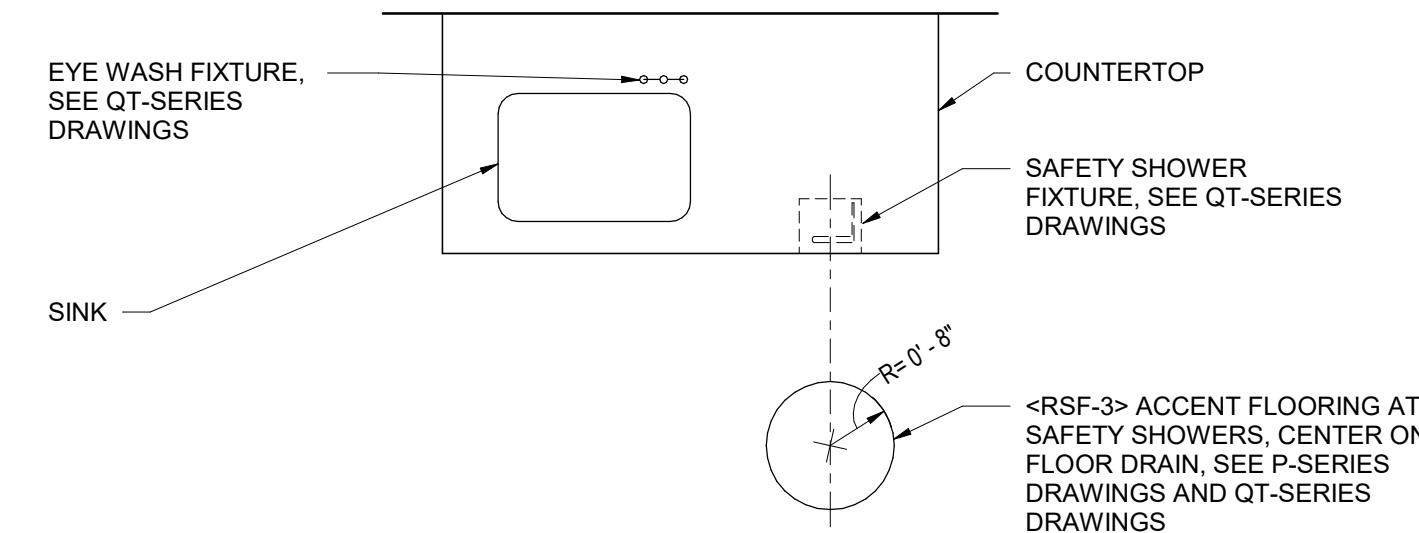
FINISH PLAN LEGEND PHASE 2
1/2" = 1'-0"

KEYNOTE - FINISH PLAN

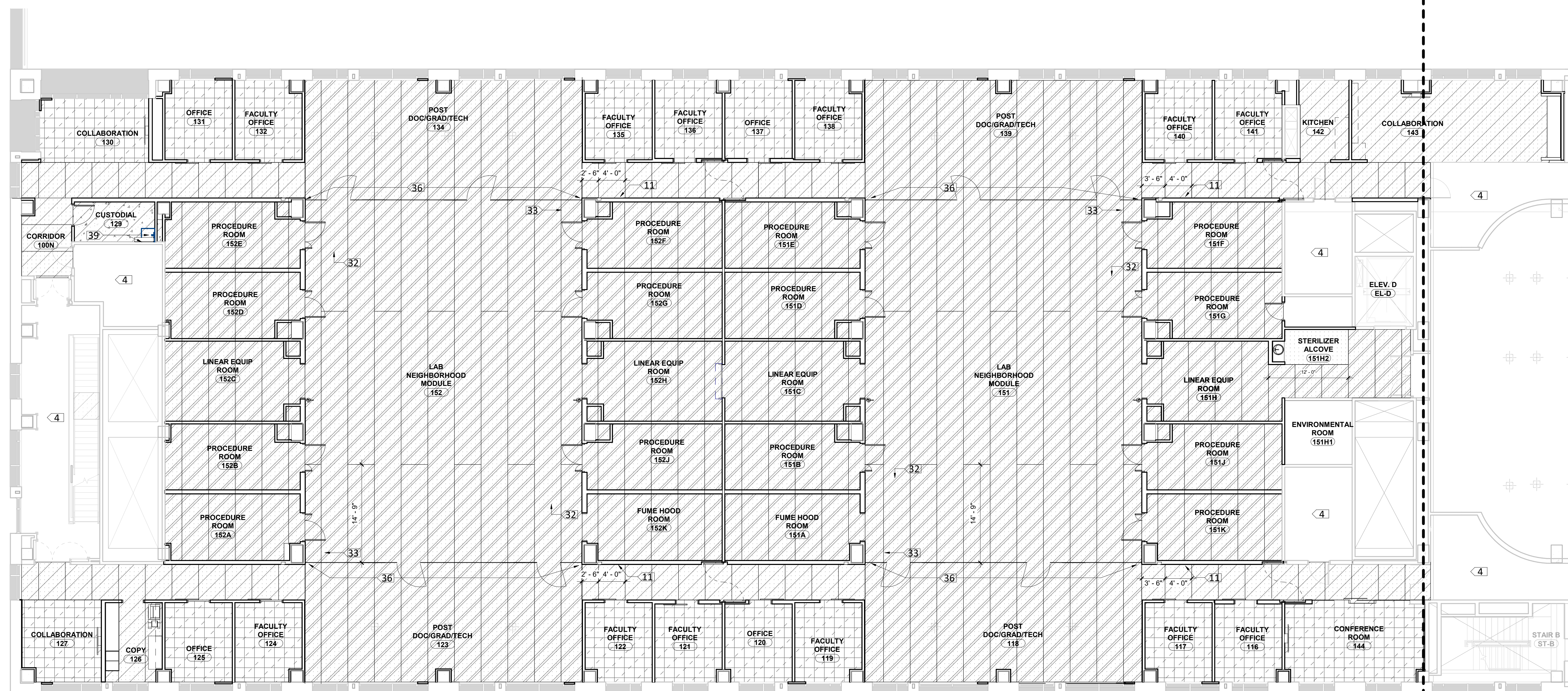
- FLOOR FINISH TO EXTEND TO WINDOW MULLION; REFER TO DETAIL 5/AI-669
- FLOOR FINISH TO EXTEND TO WINDOW MULLION; REFER TO DETAIL 4/AI-669
- COLUMN FINISH PLASTER SKIM COAT W/ PAINTED FINISH
- EXISTING PHASE 1 FINISH
- REPAIR AND REPAINT EXISTING WALL WITH PHASE 1 SPECIFIED EPOXY PAINT SYSTEM
- WOOD WALL
- ACCENT PAINT PT-6 WITH BASE RB-1
- CTW-2
- TACK BOARD BD-4 - REFER TO TYPICAL ELEVATION SHEET AI-628I
- FRW AT BACK WALL OF ALCOVE
- FLOOR EXPANSION JOINT
- MP-1 WALL FINISH
- SSF-1 AT BACKSPLASH
- DECORATIVE FILM-1; REFER TO FINISH LEGEND
- CONTRACTOR TO INCLUDE ALL PHOTOLUMINESCENT ITEMS PER CODE IN STAIRS E; REFER TO FINISH LEGEND AI-724 FOR ALL ITEMS TO BE APPLIED
- NO WORK IN THIS AREA
- PROTECT EXISTING INSTALLED EQUIPMENT WHEN APPLYING VCT FLOOR FINISH
- ACCENT PLAM
- PT-1 W/ RB-1
- PAINT DOOR AND DOOR FRAME, PT-6
- PAINT DOOR FRAME, PT-6
- RSF-3 ACCENT FLOOR AT FLOOR DRAIN; REFER TO 2/AI-351B
- RSF-3 ACCENT FLOOR AT LADDER STATION; REFER TO 3/AI-351B
- TRANSITION STRIP BETWEEN RSF AND SEALED CONCRETE FLOOR; REFER TO DETAIL 13/AI-627
- STAIR RISERS TO BE PAINTED BLACK IN STAIRS A, B, C THROUGH ENTIRE HEIGHT OF STAIRWELL
- 2" WIDE CONTINUOUS FILM-3 APPLIED TO GLASS; SIGN ADJ. TO DOOR TO SAY "DOOR MUST REMAIN CLOSED"
- FILM-2
- REPAIR AND REPAINT WALLS
- FRP BACK SPLASH
- CTA-3
- REFINISH PHASE 1 WALLS TO 9'-0" AFF WITH PT-4
- TERRAZZO FLOORING



3 ACCENT FLOORING AT LADDER STATIONS
AI-351B 1/2" = 1'-0"



2 ACCENT FLOORING AT EYE WASH STATIONS
AI-351B 1/2" = 1'-0"



1 FLOOR FINISH PLAN - LEVEL ONE - AREA 'B'
AI-351B 1/8" = 1'-0"

ISSUANCES

No.	Description	Date
1	SD ISSUANCE - NIH	12/16/19
2	DD ISSUANCE - NIH	02/05/20
3	CD ISSUANCE - NIH	04/14/20
4	BID & PERMIT - NIH	05/22/20

KEYNOTE - CEILINGS

- NO CEILING IN THIS ROOM OR AREA
- MODIFY ABOVE CEILING WALL AS NEEDED FOR NEW EQUIPMENT
- UNISTRUT SYSTEM ABOVE CEILING TO SUPPORT MODULAR WALL
- CEILING ISSUED IN PREVIOUS PACKAGE
- REMOVE AND ADJUST EXISTING CEILING AS NEEDED FOR NEW EQUIPMENT
- HOLD CEILING GRID 2" FROM WALL TO ALLOW FOR RETURN AIR, SEE MECHANICAL DRAWINGS
- NO CEILING BEHIND MODULAR EQUIPMENT WALL, SEE EQUIPMENT DRAWINGS
- CENTER LIGHT FIXTURES ABOVE GYP BD SOFFIT, TYPICAL
- CEILING SLOPED THIS ROOM, HIGH POINT IS AT SIDE ADJACENT TO EXTERIOR WALL AT 12'-0" AFF
- CEILING TRANSITION ABOVE CABINET, REFER TO DETAIL 8/AI.681A
- SMOKE CURTAIN AT ELEVATOR DOOR
- CEILING HEIGHT TRANSITION, CEILING TYPES AS INDICATED, REFER TO TYPICAL CEILING DETAILS
- FUME HOOD, SEE QI-SERIES AND MF-SERIES DRAWINGS
- CEILING FINISH TO MATCH ADJACENT EXISTING, ADJUST EDGE OF GRID TO SEAMLESSLY TRANSITION USING FULL CEILING TILES (NO CUT CEILING TILES)
- REFER TO DETAIL 8/AI.668 FOR FRAMING OF VIVARIUM CEILING
- PROJECTOR EQUIPMENT, SEE DETAIL 3/AI.670
- LOCATION OF SAFETY SHOWER BELOW CEILING
- CEILING ACCESS PANEL, 24" x 24"
- EXISTING CEILING TO ACCOMMODATE NEW CASEWORK SOFFIT, COORDINATE LIGHTING IF RELOCATION IS REQUIRED
- PROJECTOR SCREEN, SEE DETAIL 1/AI.670
- SPECIALTY LIGHT FIXTURES.

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Client Number 514
Project Number 5350
DRAWING TITLE
RCP - LEVEL ONE AREA 'B'
SHEET NO.
AI-451B

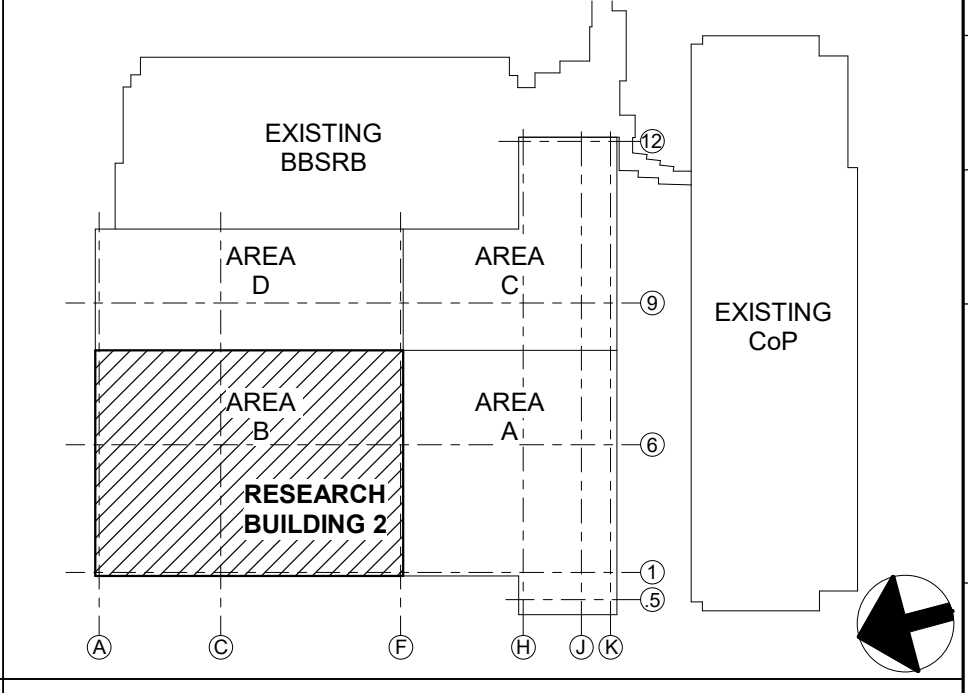
1 REFLECTED CEILING PLAN - LEVEL ONE - PHASE 2 - AREA 'B'
AI-451B 1/8" = 1'-0"

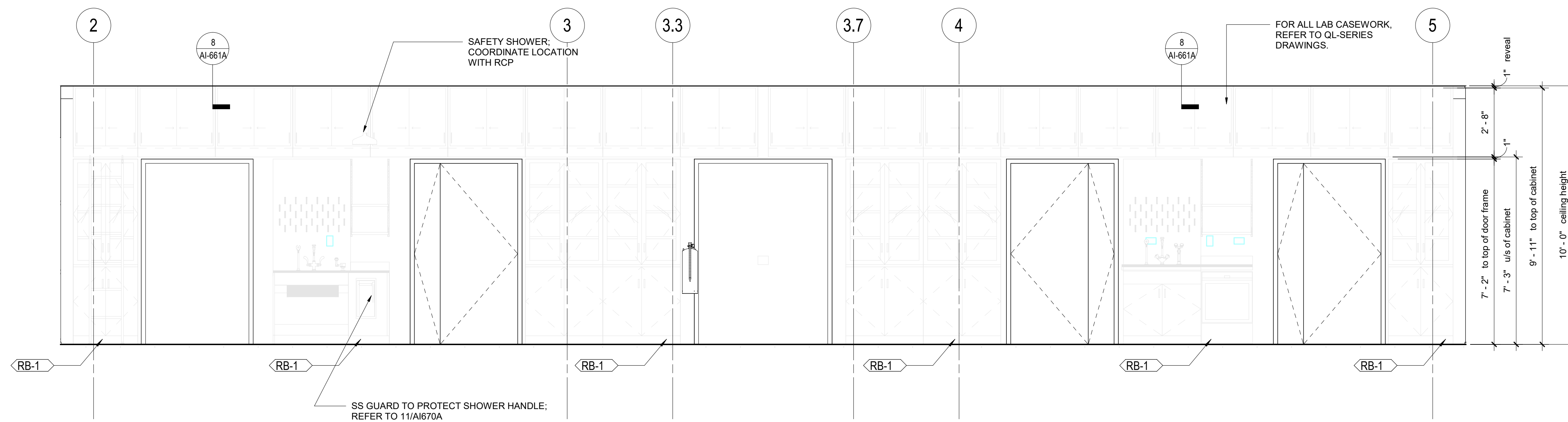
REFLECTED CEILING PLAN GENERAL NOTES

- COORDINATE ARCHITECTURAL REFLECTED CEILING PLANS WITH MECHANICAL AND ELECTRICAL DRAWINGS FOR DEVICES, TYPES, AND INSTALLATION. INFORM ARCHITECT OF ANY INCONSISTENCIES FOUND IN DRAWINGS OR SPECIFICATIONS.
- HIGH SIDE OF SLOPED CEILINGS IS ADJACENT TO BUILDING EXTERIOR WALL. SEE KEYNOTES FOR HIGH AND LOW POINT DIMENSIONS AND/OR ANGLE OF CEILING.
- CEILING TYPES AND HEIGHTS ARE INDICATED ON R.C.P. - INFORM ARCHITECT OF ANY MISSING CEILING TYPE AND HEIGHT DATA.
- SOFFITS OVER CASEWORK SHALL BE 7'-2" U.N.O.
- DEVICES (RECESSED LIGHTS, EXIT SIGNS, ELECTRICAL AND MECHANICAL DEVICES, SPRINKLER HEADS, ETC) ARE TO BE CENTERED ON CEILING TILES U.N.O.
- CONTRACTOR SHALL PROVIDE AND COORDINATE ACCESS PANELS FOR DEVICES REQUIRING ACCESS IN NON-ACCESSIBLE CEILINGS.
- PATCH OR REPAIR EXISTING CONSTRUCTION TO REMAIN WHERE DAMAGED OR DISTURBED DURING NEW CONSTRUCTION.
- PROVIDE WINDOW SHADE AT ALL EXTERIOR GLAZING UNLESS NOTED OTHERWISE.
- PROVIDE SMOKE CURTAINS AT ELEVATOR DOORS.
- SEE TYPICAL CEILING HEIGHT TRANSITIONS 10 / AI-681
- SEE TYPICAL CEILING EDGE CLOSURE 11 / AI-661 - DETAIL OCCURS AT BUILDING EXTERIOR WALLS WHERE SHOWN ON RCP
- SEE TYPICAL OFFICE CEILING CONDITIONS 4 / AI-452B U.N.O.
- VERIFY ALL RADIANT PANEL LENGTHS AND WIDTHS IN FIELD.

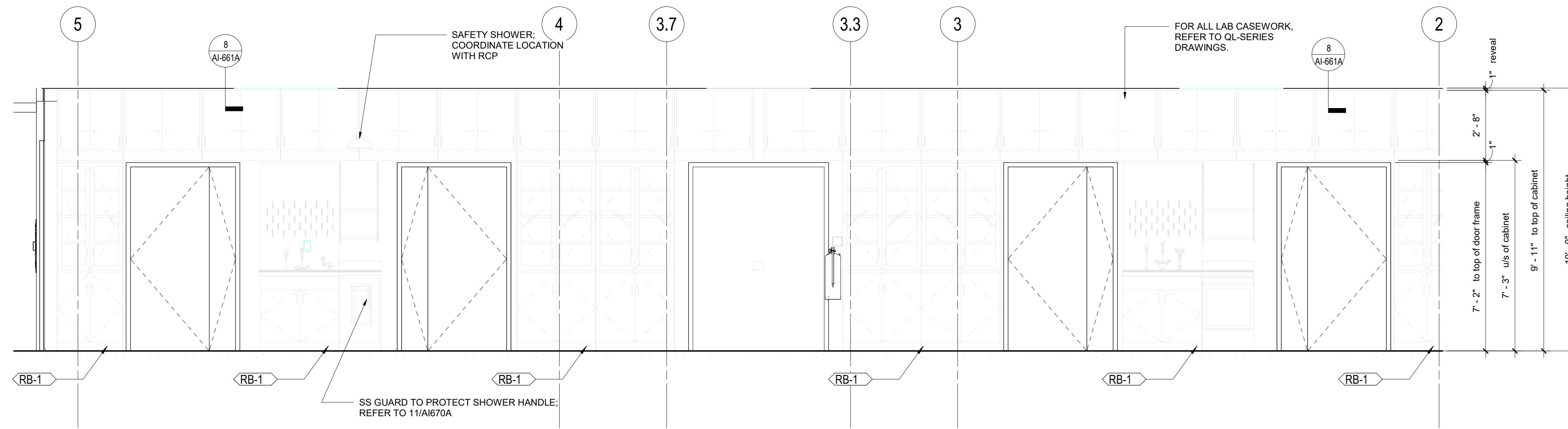
REFLECTED CEILING PLAN LEGEND

- GYP BD-1 GYPSUM BOARD CEILING, SOFFIT, OR BULKHEAD
- GYP BD-3 GYPSUM BOARD CEILING, SOFFIT, OR BULKHEAD - 5/8" GYPSUM BOARD ON FRAMED SYSTEM
- MP-1 METAL PANEL CEILING
- TBD - CEILING TO BE DECIDED
- STN-1 LIMESTONE SOFFIT
- 6" WIDE UTILITY STRIP WITH WHITE METAL CEILING PANEL INFILL
- 2x2 ACOUSTICAL CEILING PER SPECIFICATION, ACT-1 TYPICAL UNLESS NOTED OTHERWISE
- 2x4 ACOUSTICAL CEILING PER SPECIFICATION, ACT-2 TYPICAL UNLESS NOTED OTHERWISE
- 2x4 LIGHT FIXTURE PER ELECTRICAL DRAWINGS
- 2x2 LIGHT FIXTURE PER ELECTRICAL DRAWINGS
- RECESSED DIMABLE INCANDESCENT OR FLUORESCENT DOWNLIGHT FIXTURE; REFER TO ELECTRICAL DRAWINGS
- DECORATIVE RECESSED DIMABLE DOWNLIGHT FIXTURE; REFER TO ELECTRICAL DRAWINGS
- SURFACE MOUNTED PENDANT LIGHT FIXTURE PER ELECTRICAL DRAWINGS
- WALL MOUNTED LIGHT SCONCE PER ELECTRICAL DRAWINGS, TYP. MOUNTING HEIGHT SHALL BE 6'-6" U.N.O.
- BATHROOM WALL MOUNTED LIGHT SCONCE PER ELECTRICAL DRAWINGS, TYP. MOUNTING HEIGHT SHALL BE X'-X" U.N.O.
- SPRINKLER HEAD - COORDINATE WITH FIRE SUPPRESSION DRAWINGS
- MECHANICAL SUPPLY AIR DEVICE, SIZE AS INDICATED ON DRAWINGS, REFER TO MECHANICAL DRAWINGS
- MECHANICAL 1x1 RETURN AIR DEVICE, COORDINATE WITH MECHANICAL DRAWINGS
- CEILING TAG, TOP LINE INDICATES CEILING TYPE, BOTTOM LINE INDICATES CEILING HEIGHT
- SMOKE DETECTOR LED PLATE - REFER TO M.E.P. DRAWINGS
- EXIT SIGN - REFER TO ELECTRICAL DRAWINGS
- RADIANT PANEL - SEE MECHANICAL DRAWINGS
- SH-1 MANUAL SHADE
- SH-1A MOTORIZED SHADE

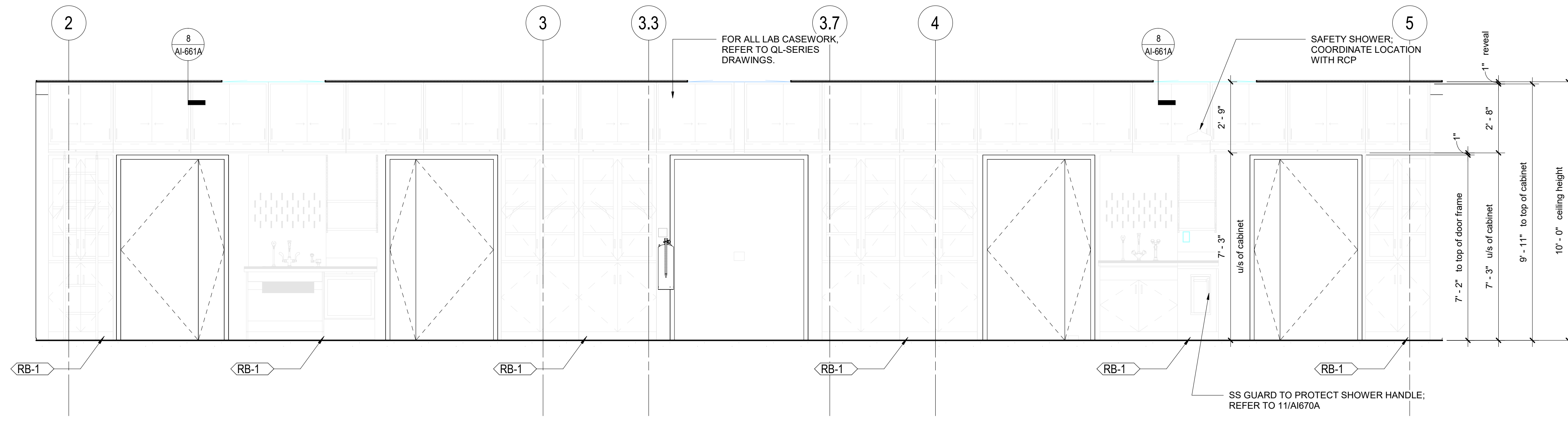




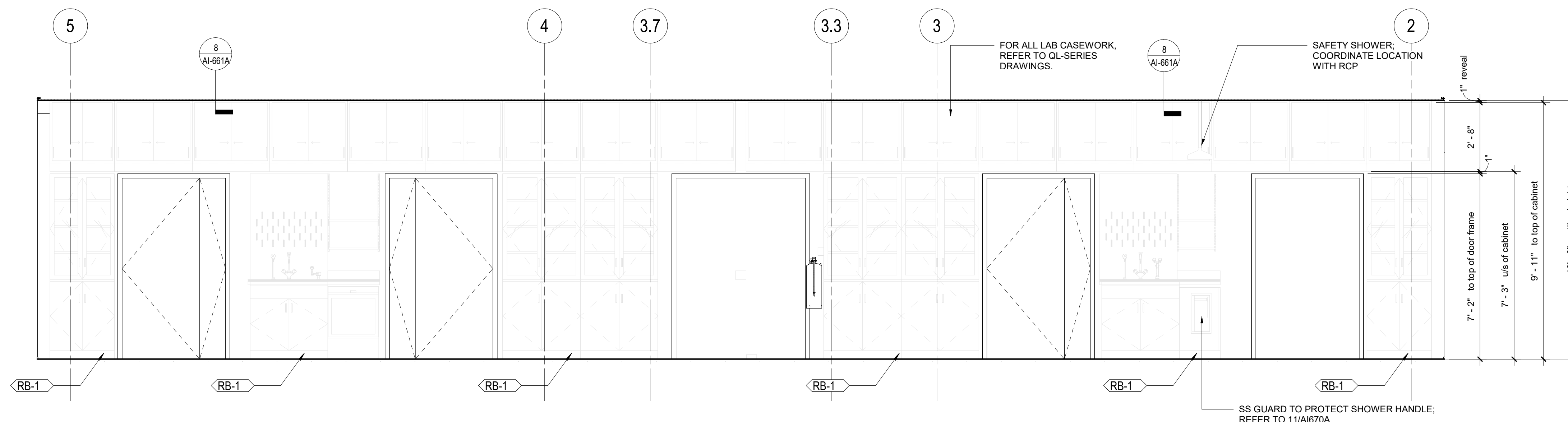
1 WET LAB 152 - NORTH ELEVATION
AI-628H | 3/8" = 1'-0"



2 WET LAB 152 - SOUTH ELEVATION
AI-628H | 3/8" = 1'-0"



3 WET LAB 151 - NORTH ELEVATION
AI-628H | 3/8" = 1'-0"



4 WET LAB 151 - SOUTH ELEVATION
AI-628H | 3/8" = 1'-0"

ISSUANCES

No.	Description	Date
1	SD ISSUANCE - NIH	12/19/19
2	DD ISSUANCE - NIH	02/05/20
3	CD ISSUANCE - NIH	04/14/20
4	BID & PERMIT - NIH	05/22/20

Drawn By

Author

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Checker

Client Number

514

Project Number

5350

DRAWING TITLE

INTERIOR ELEVATIONS - WET LAB 151 & 152

SHEET NO.

AI-628H

ISSUANCES

No.	Description	Date
1	SD ISSUANCE - NIH	12/19/19
2	DD ISSUANCE - NIH	02/05/20
3	CD ISSUANCE - NIH	04/14/20
4	BID & PERMIT - NIH	05/22/20

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Client Number 514
Project Number 5350

DRAWING TITLE
INTERIOR ELEVATIONS LEVEL ONE AREA 'B'

SHEET NO.
AI-6281

5/19/2020 11:52:20 AM

ACCESSORIES LEGEND.

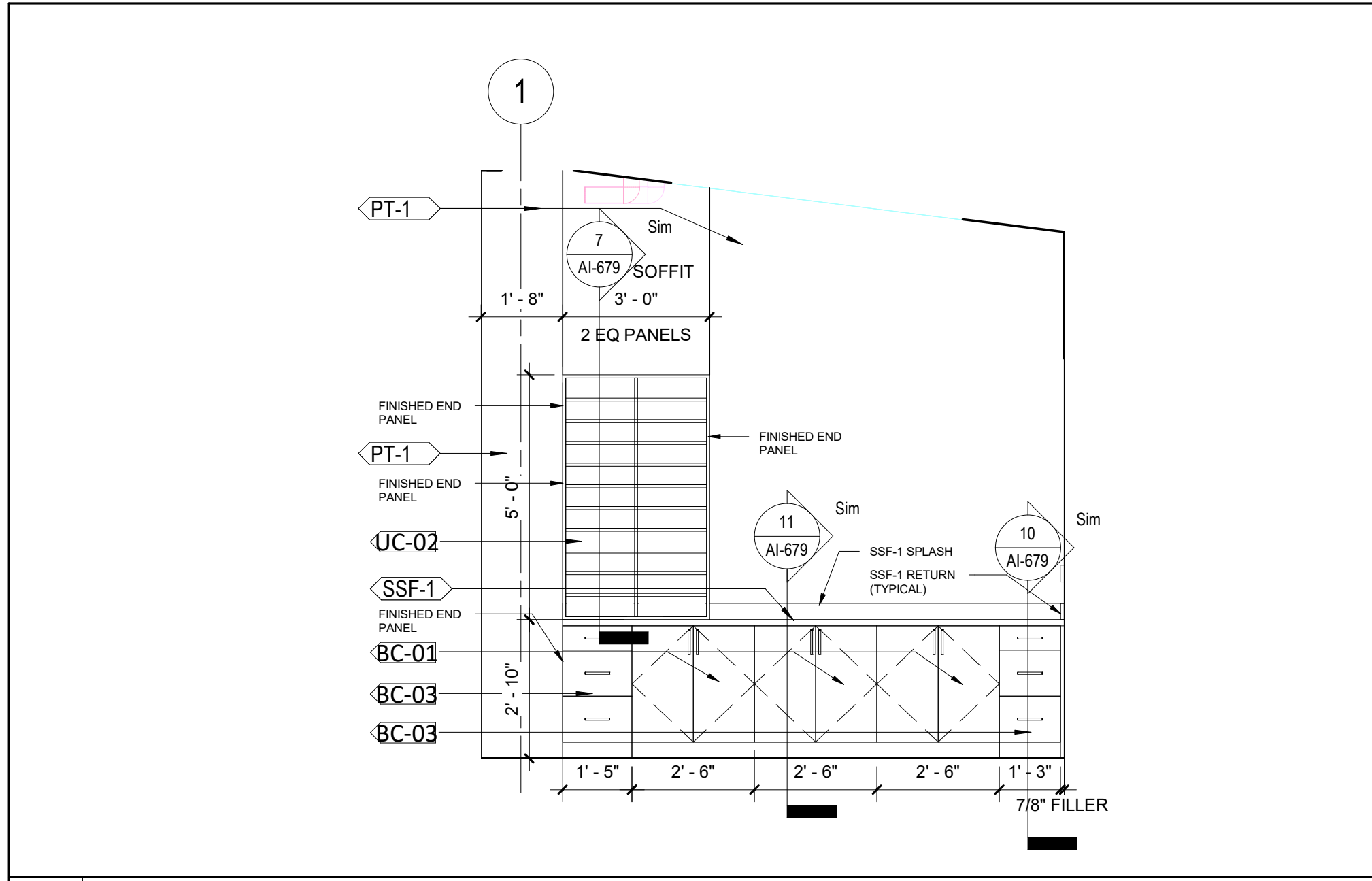
- BCS BABY CHANGING STATION
- CG CORNER GUARD, REFER TO AI-668
- CR CARD READER
- DF-1 ACCESSIBLE DRINKING FOUNTAIN
- FBS FRP BACKPLASH
- FEC-1 RECESSED FIRE EXTINGUISHER CABINET
- FEC-2 SURFACE MOUNTED FIRE EXTINGUISHER CABINET
- FEC-3 BRACKET MOUNTED FIRE EXTINGUISHER
- GB-1 REAR WALL GRAB BAR
- GB-2 SIDE WALL GRAB BAR
- GB-3 VERTICAL GRAB BAR
- JG JAMB GUARD, DETAIL 6/AI-668
- LAV LAVATORY
- MR-1 2'-0" x 3'-0" MIRROR
- MR-2 5'-0" x 4'-0" MIRROR
- MR-3 7'-6" x 4'-0" MIRROR
- MR-4 9'-0" x 4'-0" MIRROR
- MR-5 6'-0" x 4'-0" MIRROR
- MS MOP SINK AND MOP RACK
- ND-1 RECESSED SANITARY NAPKIN DISPOSAL
- ND-2 PARTITION MOUNTED SANITARY NAPKIN DISPOSAL (INSTALLER)
- PD PAPER TOWEL DISPENSER (OWNER FURNISHED / CONTRACTOR INSTALLED)
- PS PROJECTOR SCREEN
- RR RECYCLING RECEPTACLE, OWNER PROVIDED
- RS DIGITAL ROOM SCHEDULING SCREEN
- SD SURFACE MOUNTED SOAP DISPENSER (OWNER FURNISHED / CONTRACTOR INSTALLED) W/ CUTOUT IN MIRROR. REFER TO AG-021 FOR CUTOUT DIMENSIONS.
- SG STORAGE ADJUSTABLE SHELVING
- SH SHELF
- SR-3 60" x 36" SHOWER
- TD TOWEL PAPER DISPENSER
- TP TOILET PARTITION
- TV WALL MOUNTED FLAT SCREEN MONITOR
- UP URINAL PARTITION
- UR-1 URINAL
- UR-2 ACCESSIBLE URINAL
- WB WHITE BOARD
- WC-1 WATER CLOSET
- WC-2 ACCESSIBLE WATER CLOSET
- WS WALL PROTECTION SYSTEM
- WR WASTE RECEPTACLE

GENERAL NOTES - CASEWORK

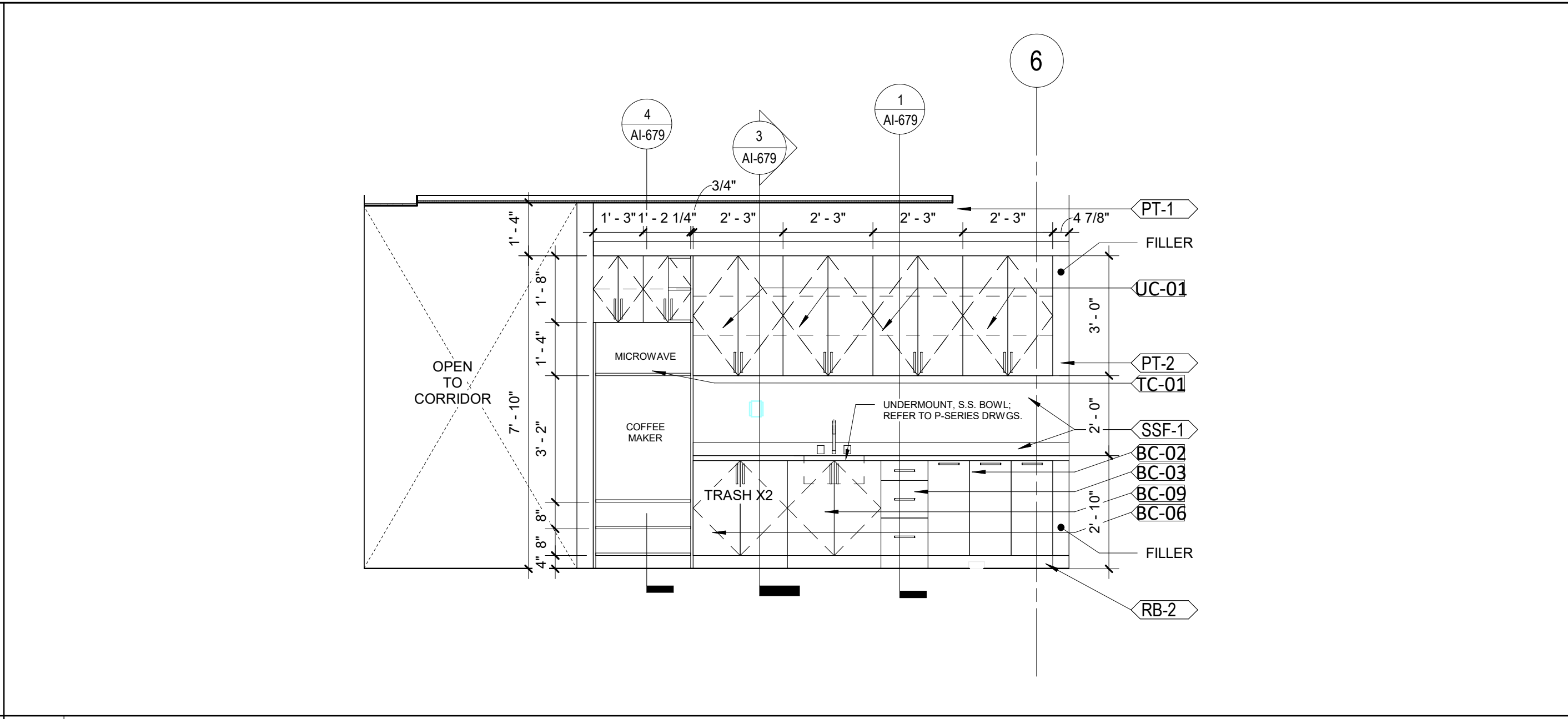
- A. ALL BASE CABINETS TO BE PLAM-1, U.N.O.
- B. ALL UPPER CABINETS TO BE PLAM-1, U.N.O.
- C. ALL TALL CABINETS TO BE PLAM-1, U.N.O.
- D. ALL CASEWORK DIMENSIONS TO BE FIELD VERIFIED.

CABINET LEGEND

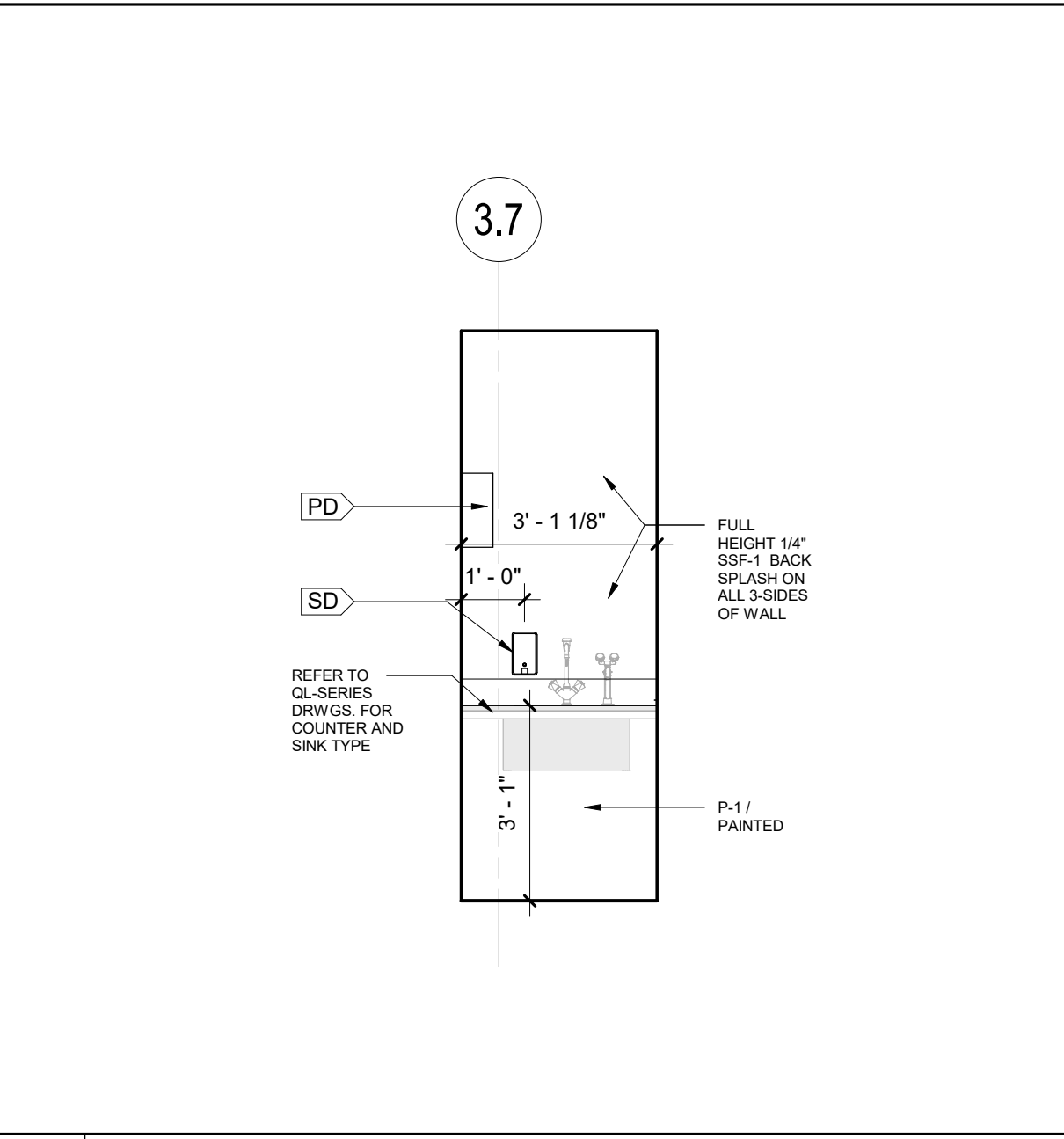
- BC-01 BASE CABINET FULL HT DOOR
- BC-02 BASE CABINET TYPICAL
- BC-03 BASE CABINET 3 DRAWER
- BC-04 BASE CABINET 4 DRAWER
- BC-05 BASE CABINET OPEN
- BC-06 BASE CABINET PULLOUT TRASH RECYCLE
- BC-07 BASE COUNTERTOP WORKSURFACE
- BC-08 ADA SINK WITH APRON
- BC-09 BASE CABINET WITH SINK
- UC-01 WALL CABINET TYPICAL
- UC-02 WALL CABINET COPY SHELVES
- UC-03 WALL CABINET 18" HIGH
- UC-04 WALL CABINET MAILROOM SHELVES
- TC-01 TALL CABINET 1 MICROWAVE
- TC-02 TALL CABINET 3 MICROWAVES
- TC-03 TALL CABINET 1 MICROWAVE WITH CLOSURE PANEL
- TC-05 TALL CABINET 3 MICROWAVES WITH CLOSURE PANEL



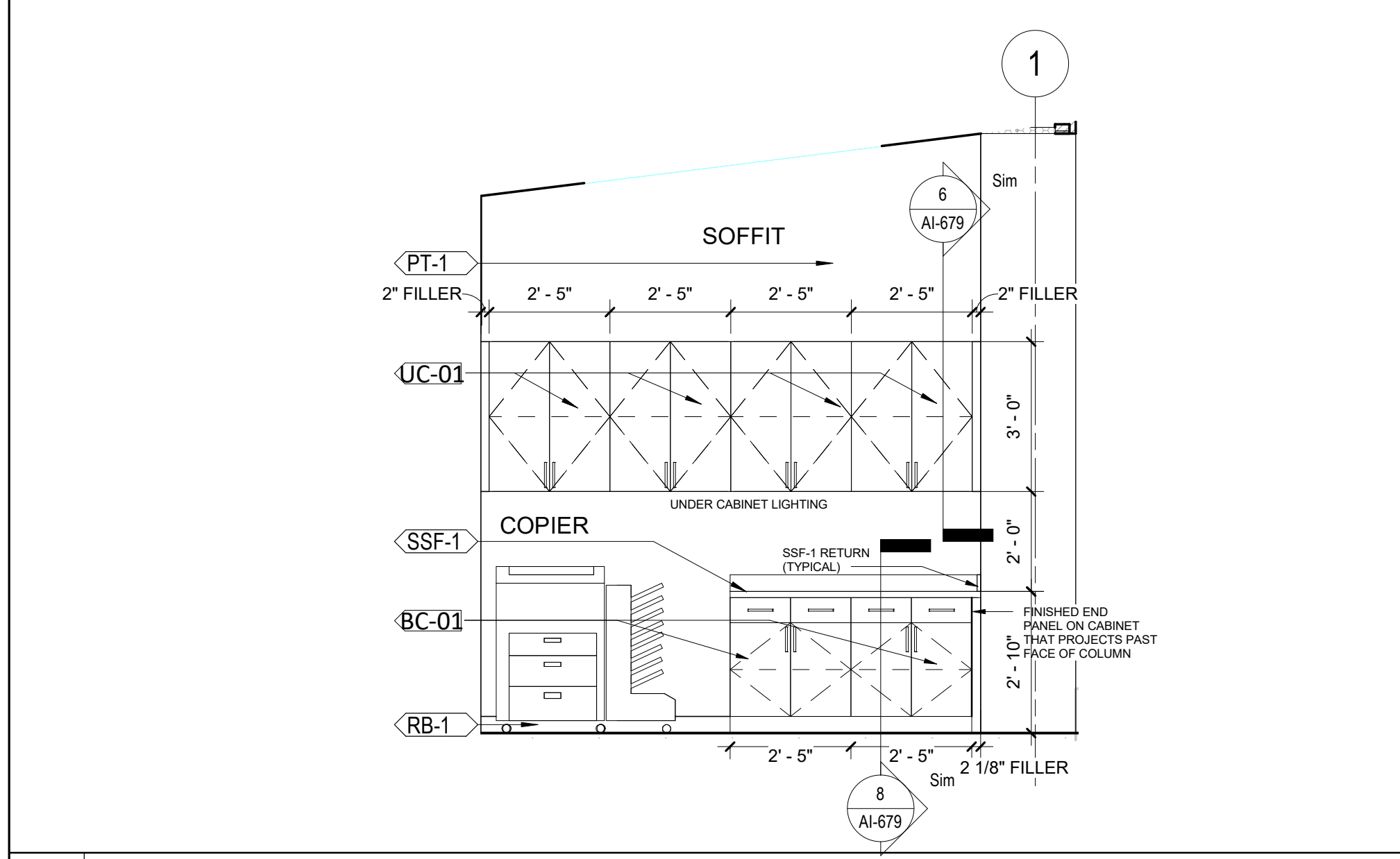
13 **COPY ROOM NORTH.**
AI-6281 3/8" = 1'-0"



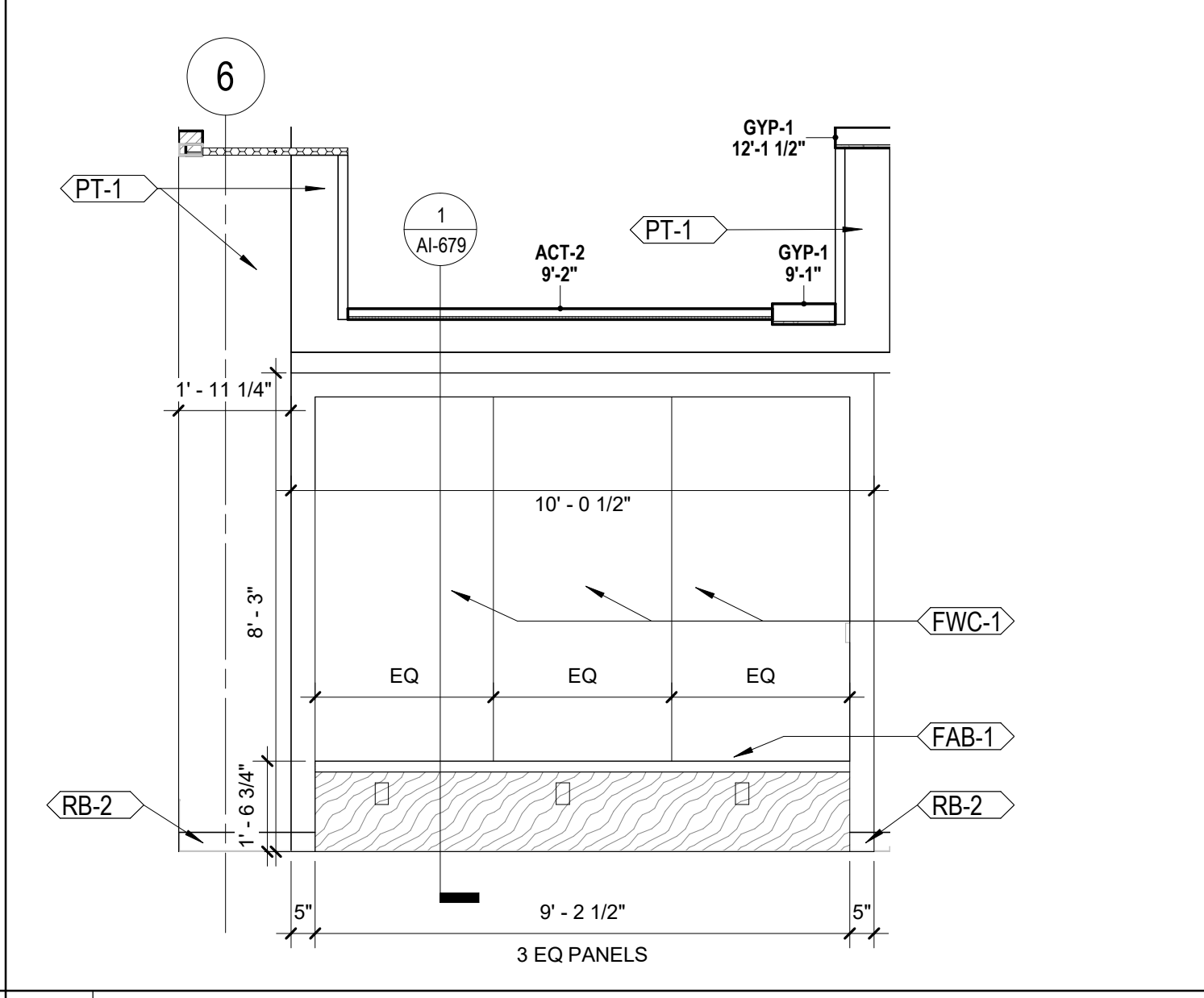
12 **COLLABORATION 143 NORTH ELEVATION.**
AI-6281 3/8" = 1'-0"



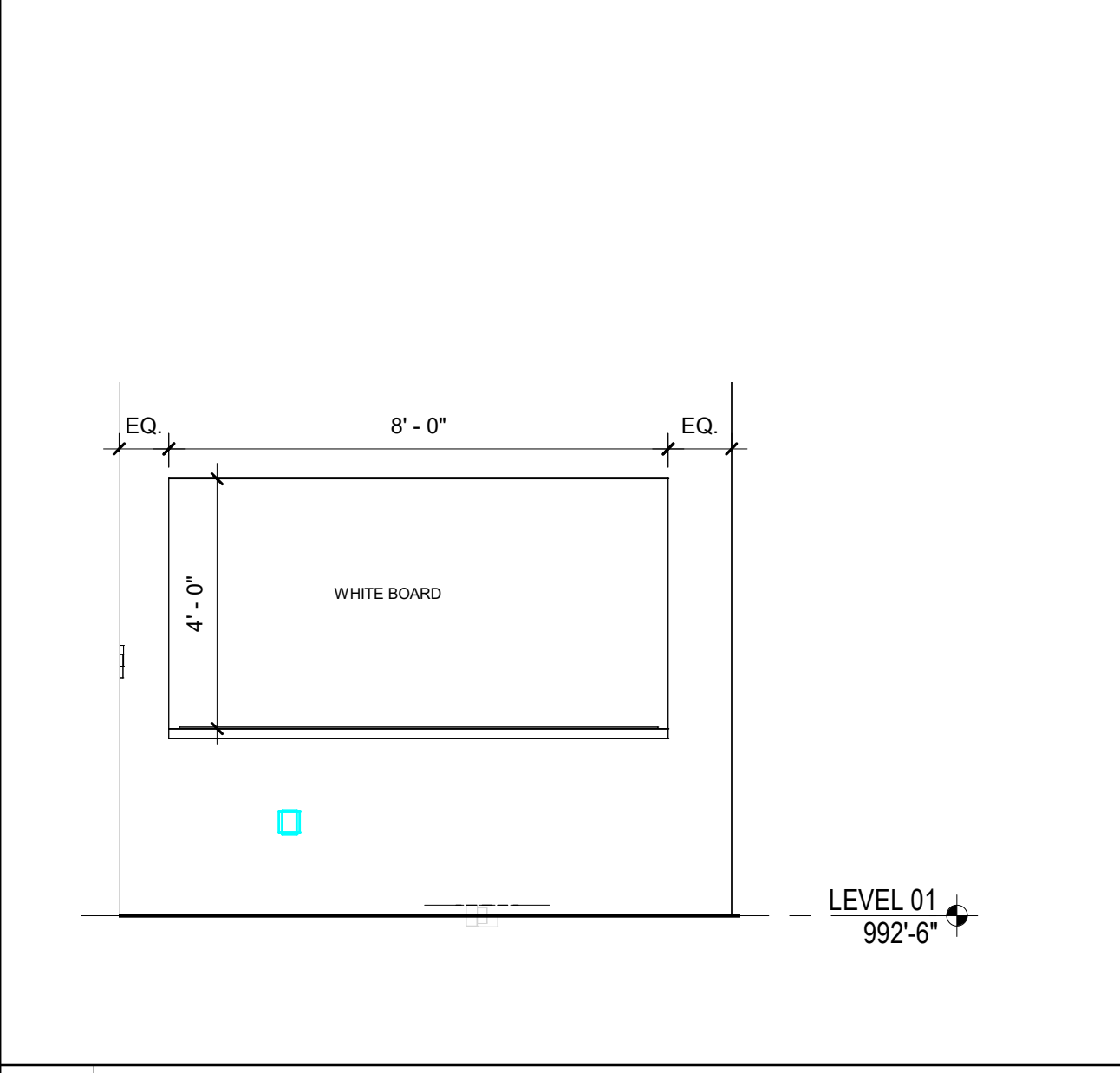
11 **STERILIZER ALCOVE.**
AI-6281 3/8" = 1'-0"



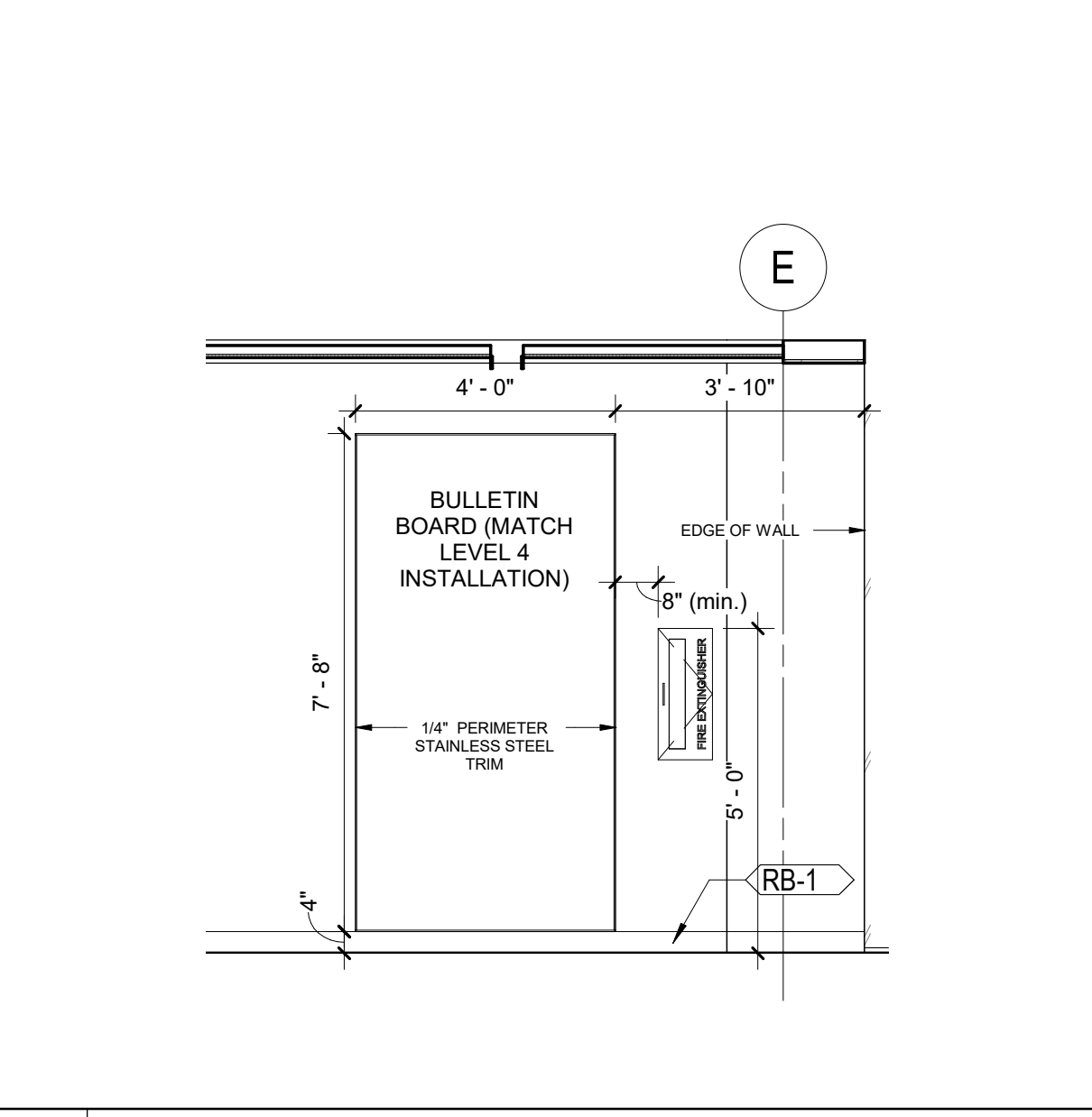
10 **COPY ROOM SOUTH.**
AI-6281 3/8" = 1'-0"



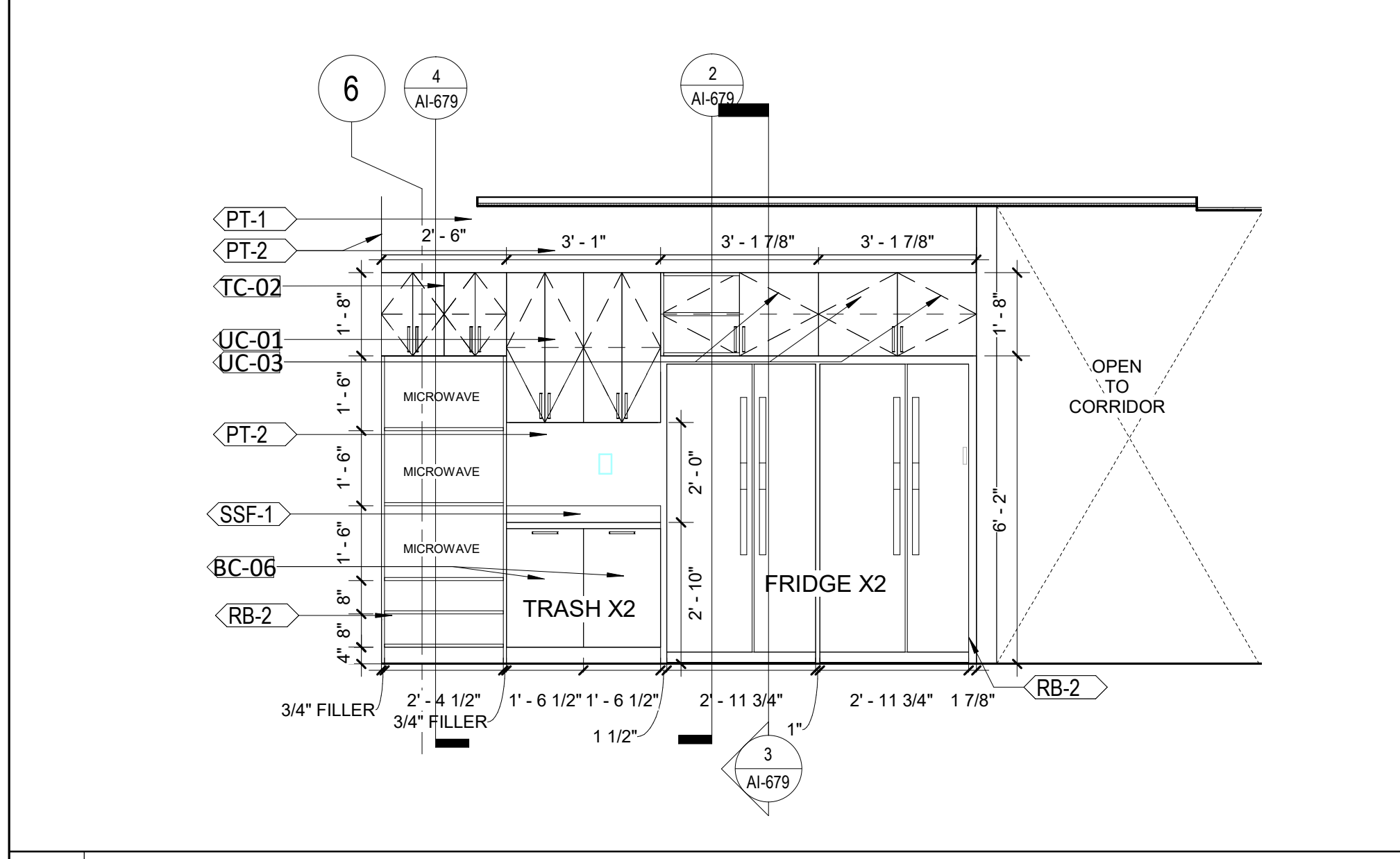
9 **COLLABORATION 143 SOUTH ELEV.**
AI-6281 3/8" = 1'-0"



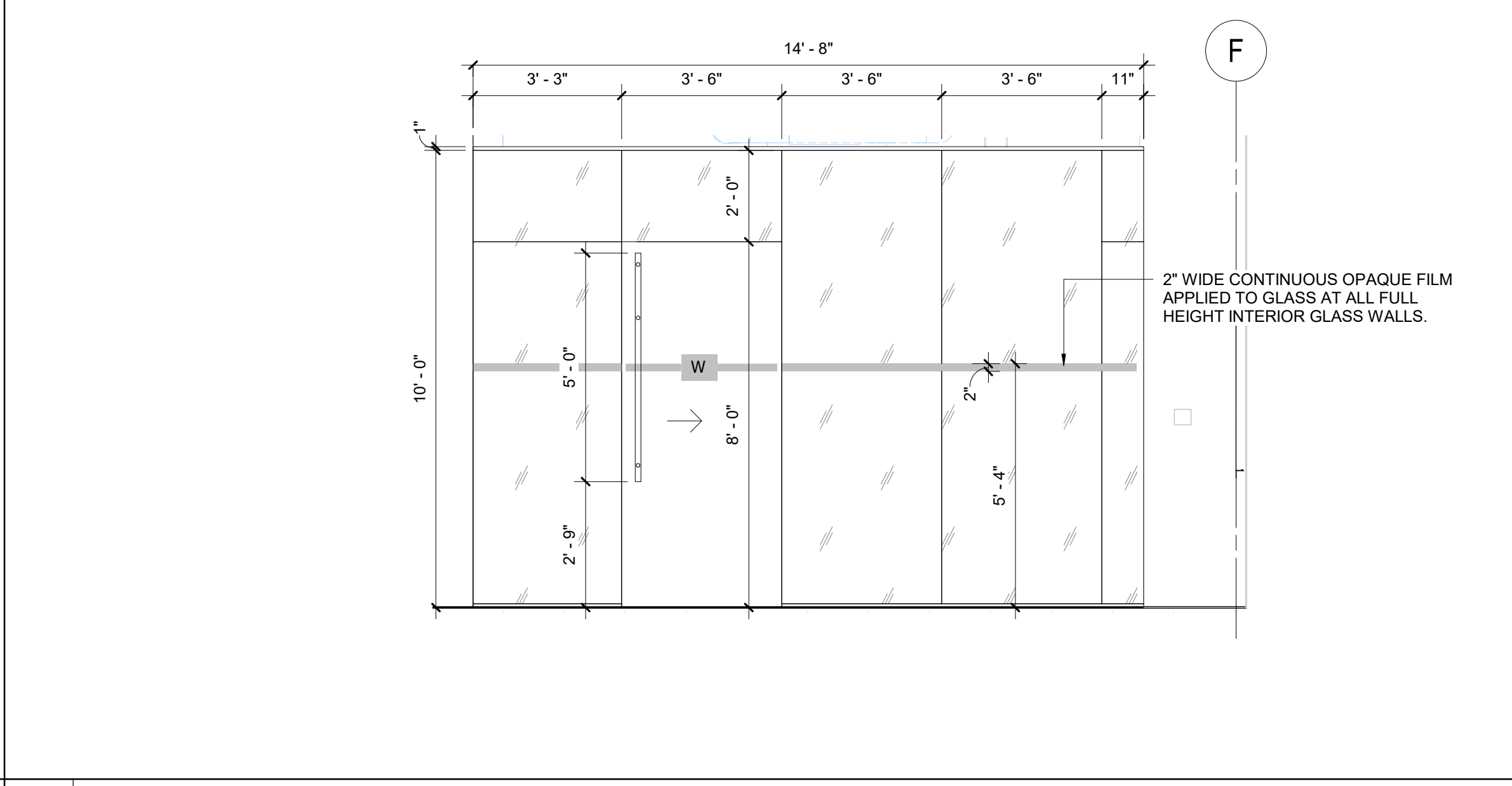
8 **CONFERENCE 144 - SOUTH ELEVATION**
AI-6281 3/8" = 1'-0"



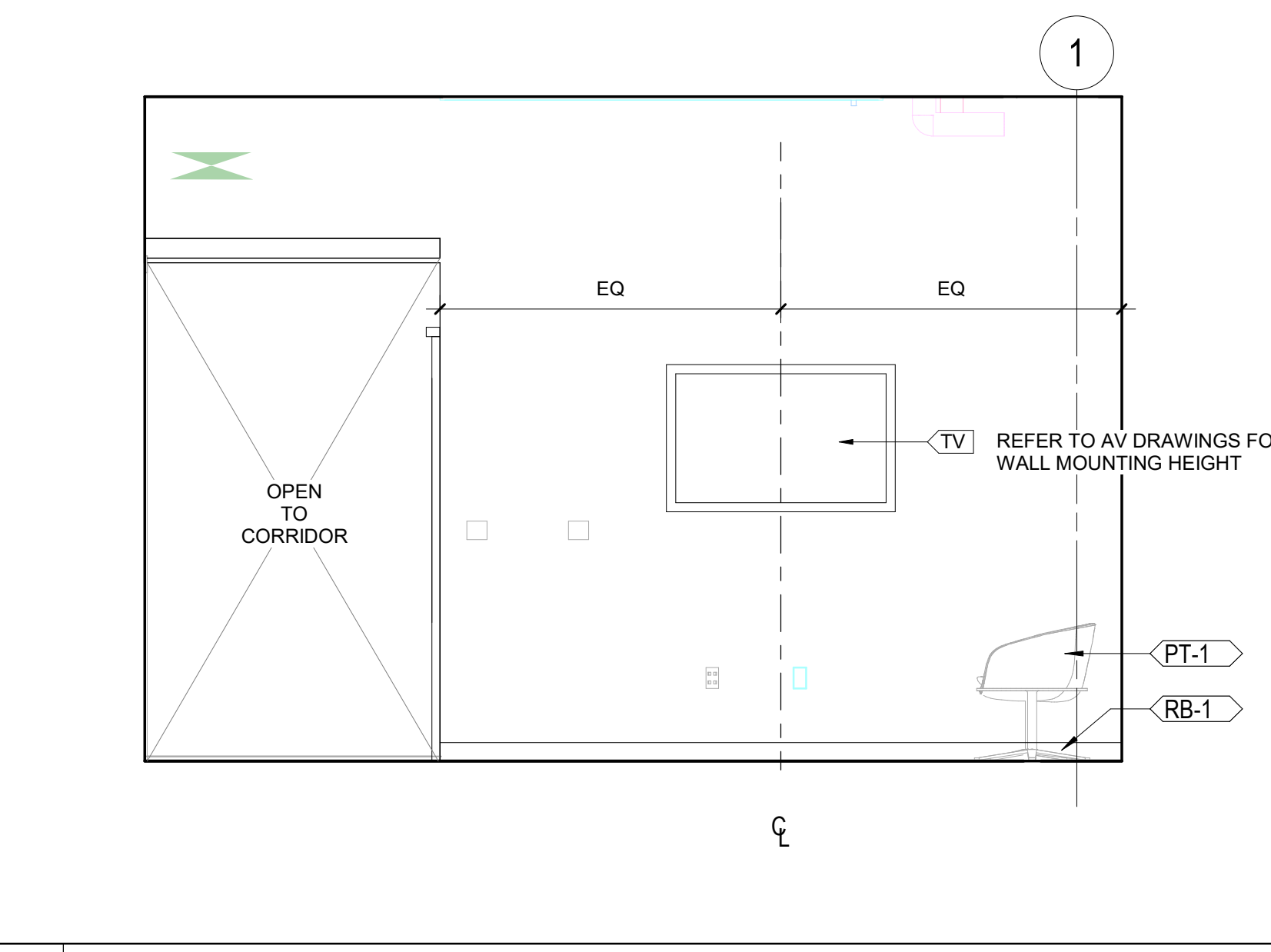
7 **BULLETIN BOARD ELEVATION - TYPICAL**
AI-6281 3/8" = 1'-0"



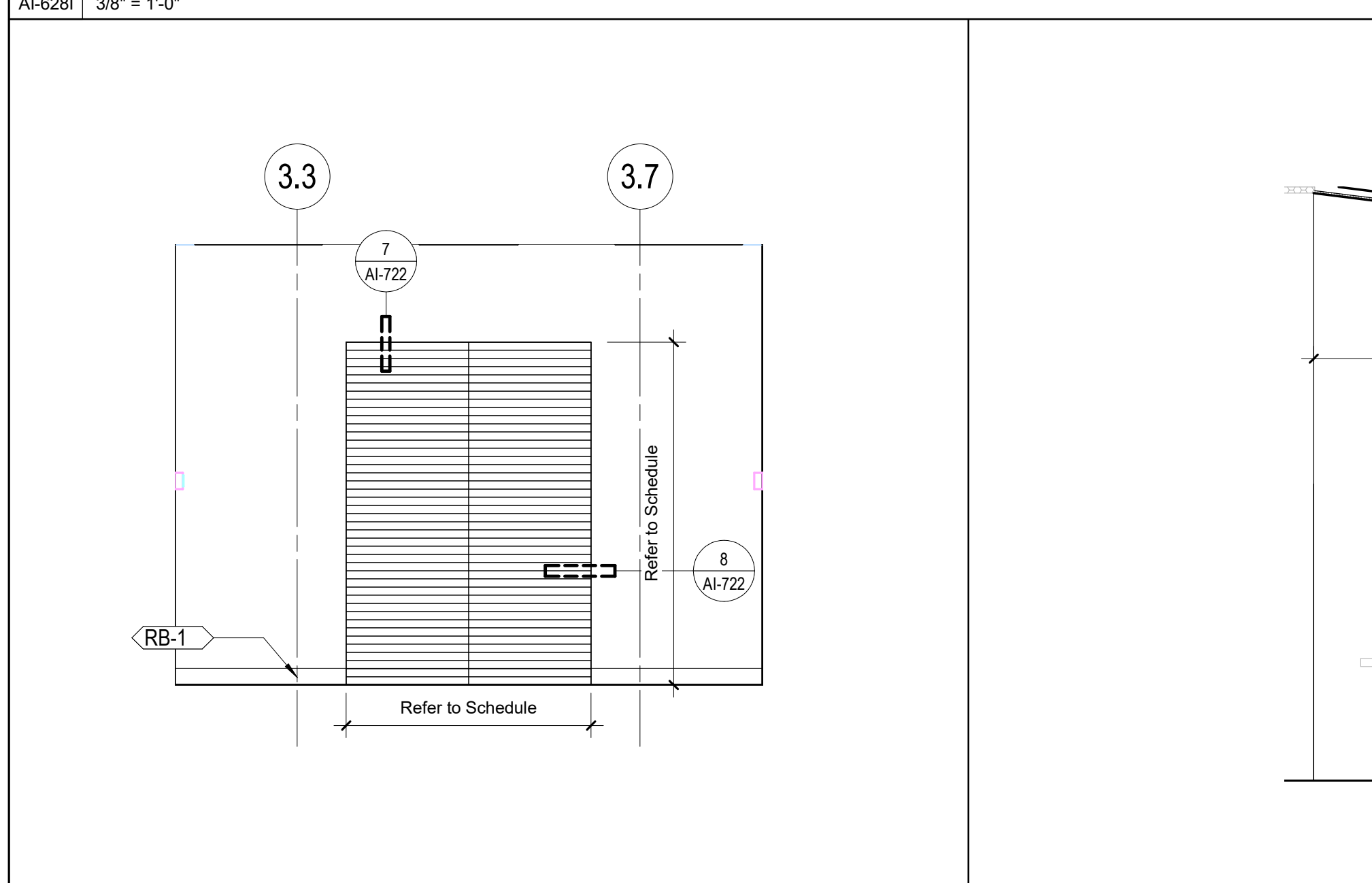
6 **KITCHEN 142 SOUTH ELEVATION.**
AI-6281 3/8" = 1'-0"



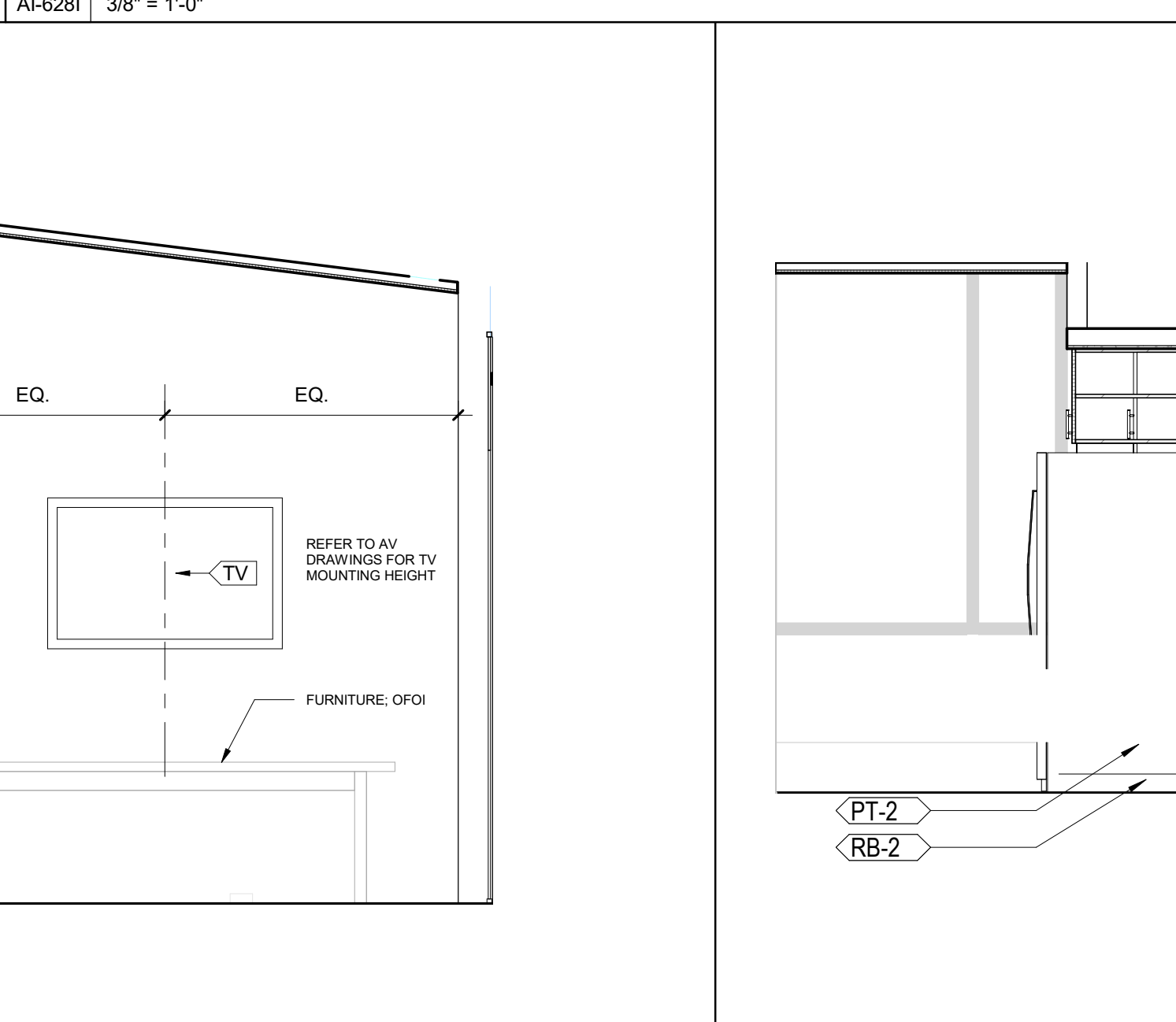
5 **CONFERENCE 144 EAST ELEVATION.**
AI-6281 3/8" = 1'-0"



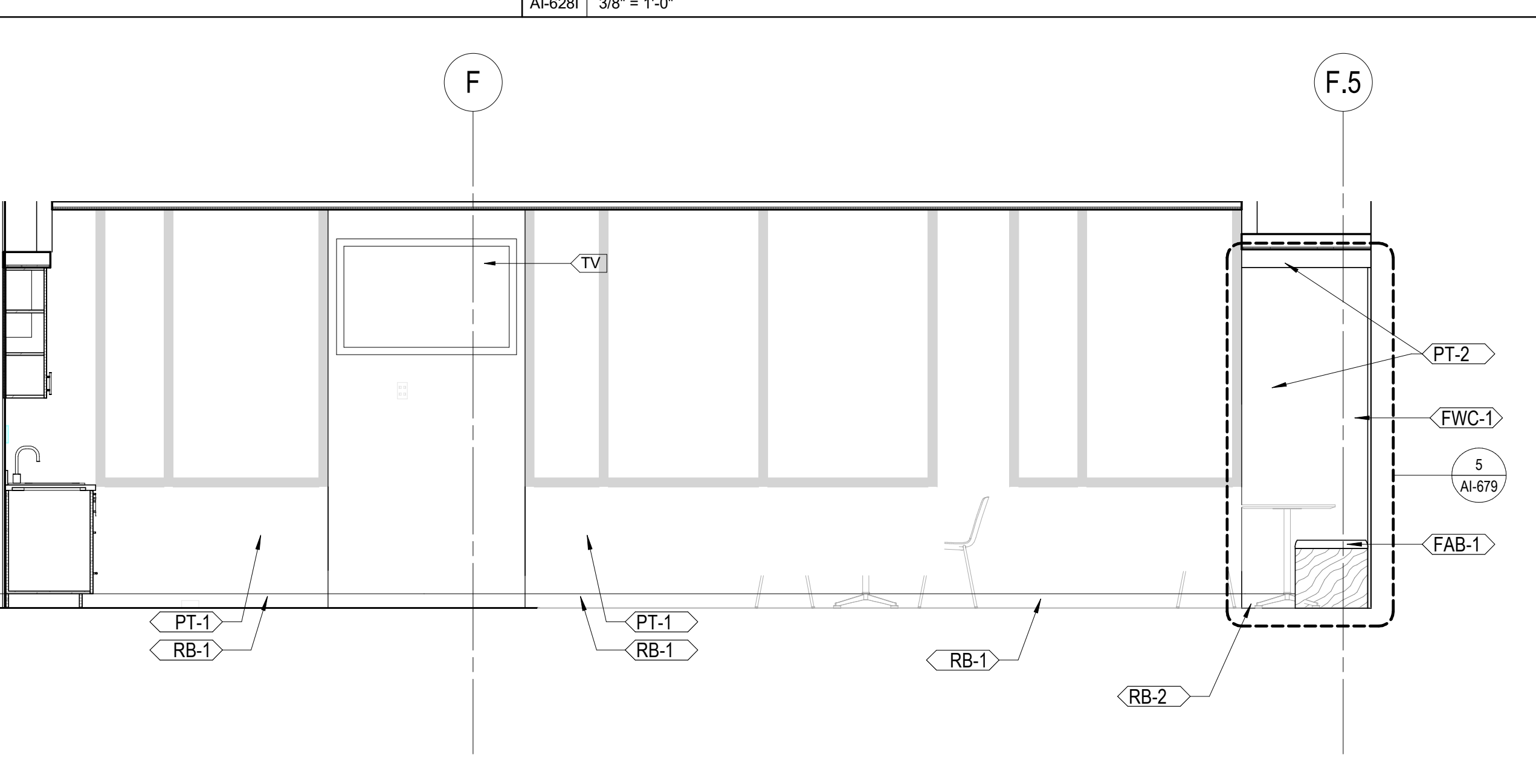
4 **COLLABORATION 127 SOUTH ELEVATION.**
AI-6281 3/8" = 1'-0"



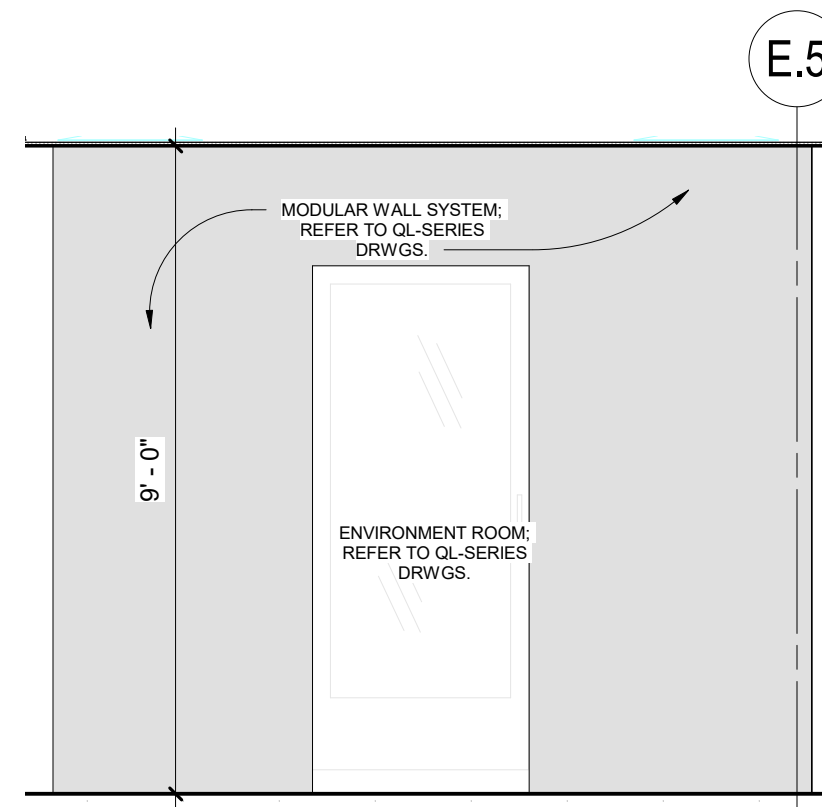
3 **OVERHEAD DOOR ROOM 151C.**
AI-6281 3/8" = 1'-0"



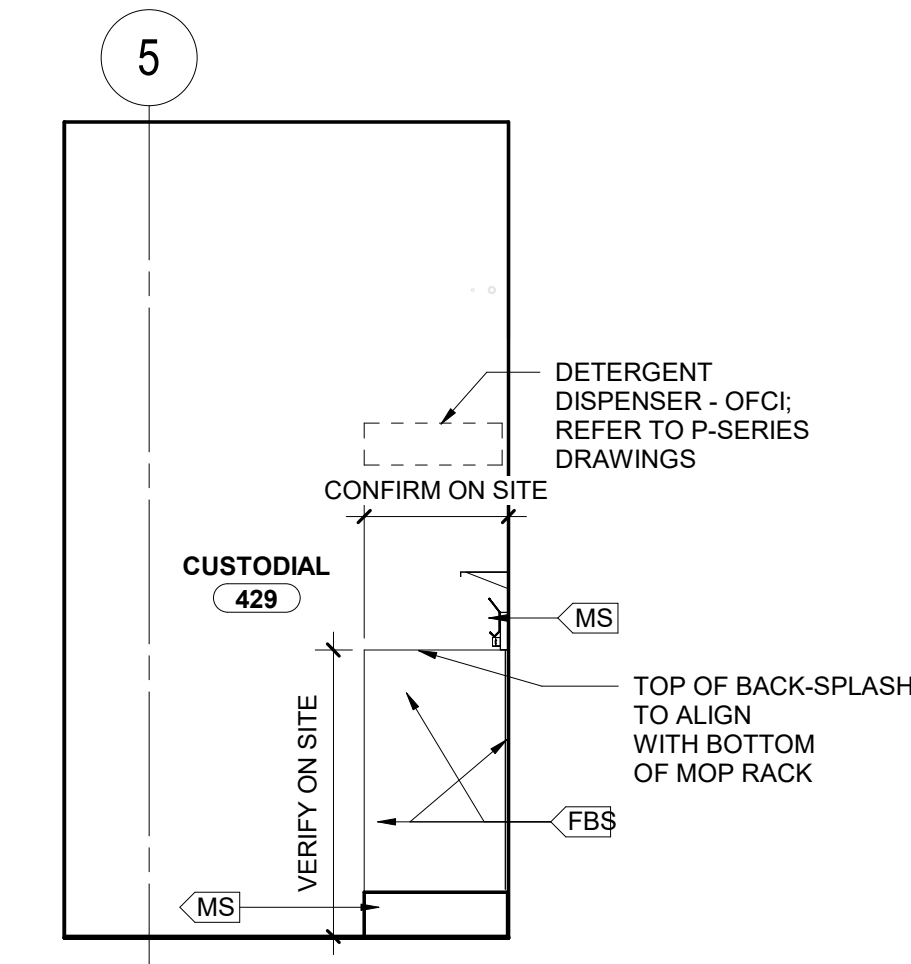
2 **CONFERENCE 144 NORTH ELEVATION.**
AI-6281 3/8" = 1'-0"



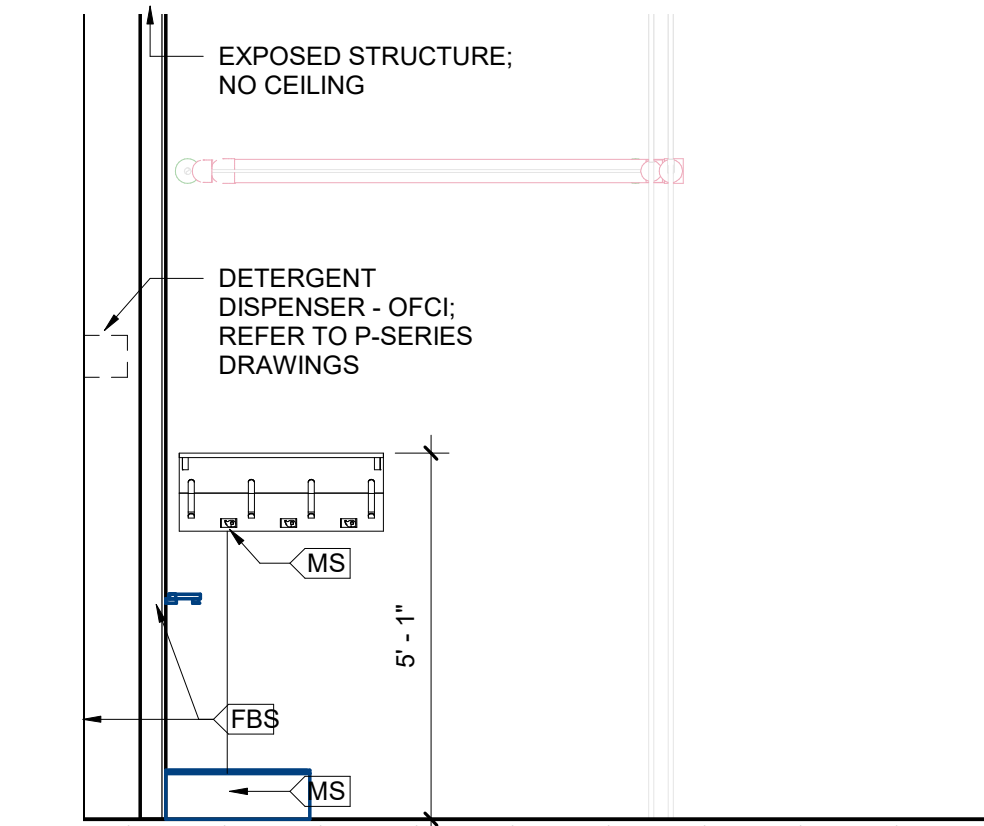
1 **COLLABORATION 143 EAST ELEV.**
AI-6281 3/8" = 1'-0"



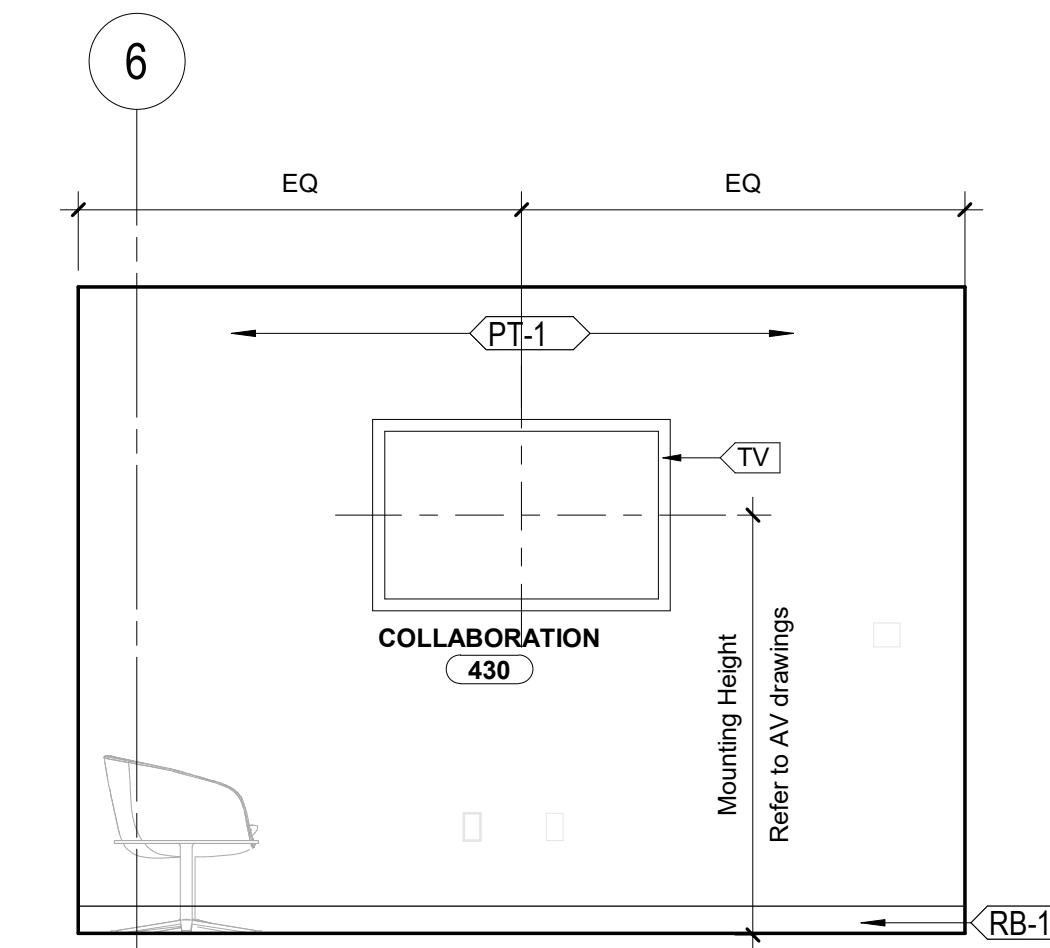
5 **STERILIZER ALCOVE 151H2 - WEST ELEVATION**
AI-629E 3/8" = 1'-0"



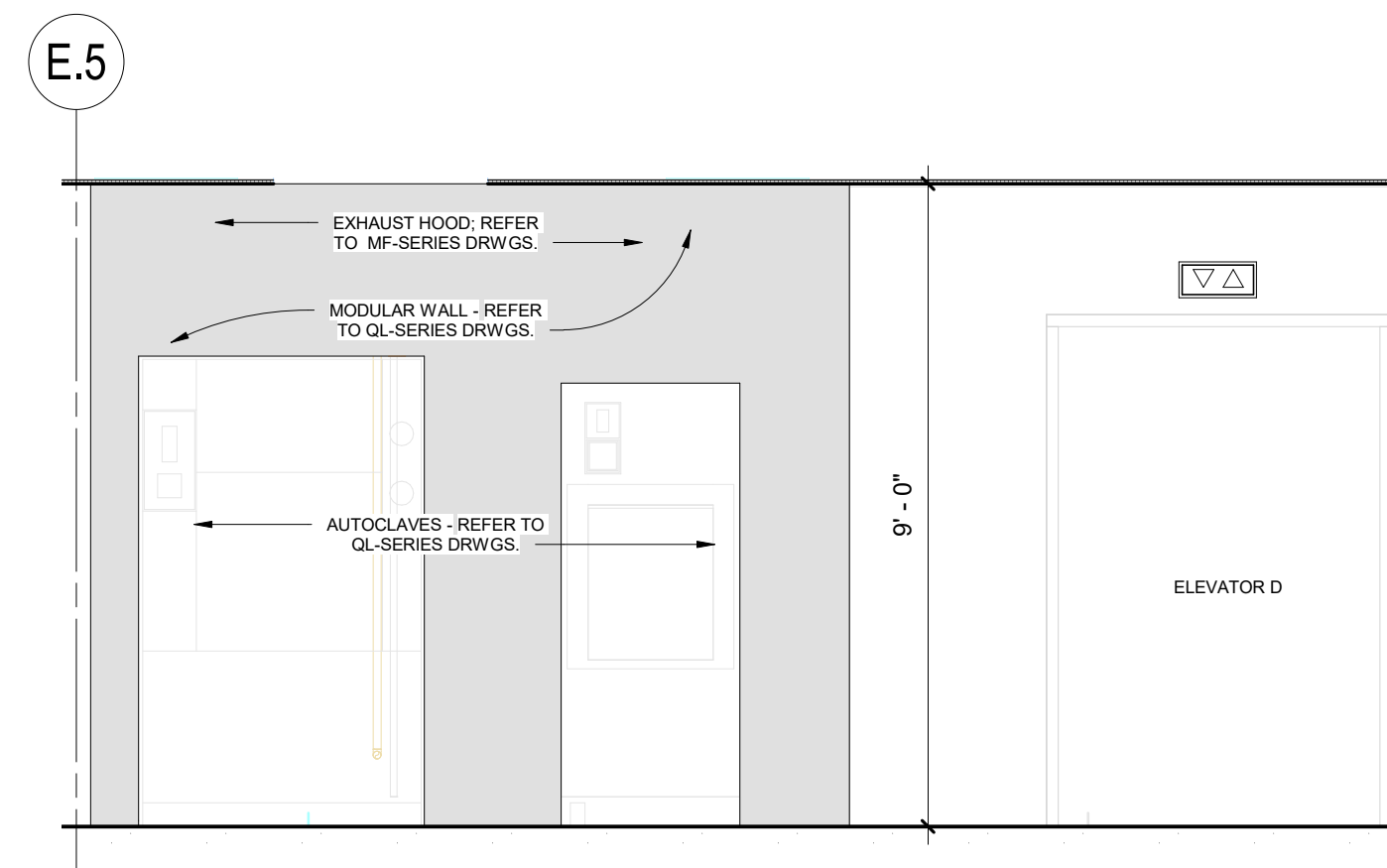
1 **CUSTODIAL 129 - SOUTH ELEVATION**
AI-629E 3/8" = 1'-0"



2 **CUSTODIAL 129 - WEST ELEVATION**
AI-629E 3/8" = 1'-0"



3 **COLLABORATION 130 SOUTH ELEVATION**
AI-629E 3/8" = 1'-0"



4 **STERILIZER ALCOVE 151H2 - EAST ELEVATION**
AI-629E 3/8" = 1'-0"

ACCESSORIES LEGEND

BCS	BABY CHANGING STATION
CG	CORNER GUARD, REFER TO AI-668
CR	CARD READER
DF-1	ACCESSIBLE DRINKING FOUNTAIN
FBS	FRP BACKSPLASH
FEC-1	RECESSED FIRE EXTINGUISHER CABINET
FEC-2	SURFACE MOUNTED FIRE EXTINGUISHER CABINET
FEC-3	BRACKET MOUNTED FIRE EXTINGUISHER
GB-1	REAR WALL GRAB BAR
GB-2	SIDE WALL GRAB BAR
GB-3	VERTICAL GRAB BAR
JG	JAMB GUARD, DETAIL 6/AI-668
LAV	LAVATORY
MR-1	2'-0" x 3'-0" MIRROR
MR-2	5'-0" x 4'-0" MIRROR
MR-3	7'-6" x 4'-0" MIRROR
MR-4	9'-0" x 4'-0" MIRROR
MR-5	6'-0" x 4'-0" MIRROR
MS	MOP SINK AND MOP RACK
ND-1	RECESSED SANITARY NAPKIN DISPOSAL
ND-2	PARTITION MOUNTED SANITARY NAPKIN DISPOSAL
PD	PAPER TOWEL DISPENSER (OWNER FURNISHED / CONTRACTOR INSTALLED)
PS	PROJECTOR SCREEN
RR	RECYCLING RECEPTACLE, OWNER PROVIDED
RS	DIGITAL ROOM SCHEDULING SCREEN
SD	SURFACE MOUNTED SOAP DISPENSER (OWNER FURNISHED / CONTRACTOR INSTALLED) W/ CUTOUT IN MIRROR. REFER TO AG-021 FOR CUTOUT DIMENSIONS.
SG	STORAGE ADJUSTABLE SHELVING
SH	SHELF
SR-3	60" x 36" SHOWER
TD	TOILET PAPER DISPENSER
TP	TOILET PARTITION
TV	WALL MOUNTED FLAT SCREEN MONITOR
UP	URINAL PARTITION
UR-1	URINAL
UR-2	ACCESSIBLE URINAL
WB	WHITE BOARD
WC-1	WATER CLOSET
WC-2	ACCESSIBLE WATER CLOSET
WG	WALL PROTECTION SYSTEM
WR	WASTE RECEPTACLE

CABINET LEGEND

BC-01	BASE CABINET FULL HT DOOR
BC-02	BASE CABINET TYPICAL
BC-03	BASE CABINET 3 DRAWER
BC-04	BASE CABINET 4 DRAWER
BC-05	BASE CABINET OPEN
BC-06	BASE CABINET PULLOUT TRASH RECYCLE
BC-07	BASE COUNTERTOP WORKSURFACE
BC-08	ADA SINK WITH APRON
BC-09	BASE CABINET WITH SINK
UC-01	WALL CABINET TYPICAL
UC-02	WALL CABINET COPY SHELVES
UC-03	WALL CABINET 18" HIGH
UC-04	WALL CABINET MALLROOM SHELVES
TC-01	TALL CABINET 1 MICROWAVE
TC-02	TALL CABINET 3 MICROWAVES
TC-03	TALL CABINET 1 MICROWAVE WITH CLOSURE PANEL
TC-05	TALL CABINET 3 MICROWAVES WITH CLOSURE PANEL

GENERAL NOTES - CASEWORK

- A. ALL BASE CABINETS TO BE PLAM-1, U.N.O.
- B. ALL UPPER CABINETS TO BE PLAM-1, U.N.O.
- C. ALL TALL CABINETS TO BE PLAM-1, U.N.O.
- D. ALL CASEWORK DIMENSIONS TO BE FIELD VERIFIED.



UNIVERSITY OF KENTUCKY
760 Press Avenue, Lexington, KY

CONSTRUCT RESEARCH BUILDING (FIT-UP TWO WET LABS)

UK Project Number 2538.0

ISSUANCES

No.	Description	Date
1	DD ISSUANCE - NIH	02/05/20
2	CD ISSUANCE - NIH	04/14/20
3	BID & PERMIT - NIH	05/22/20

Drawn By _____
 Author _____
 Checked By _____
 Checker _____
 Client Number 514
 Project Number 5350

DRAWING TITLE
INTERIOR ELEVATIONS LEVEL ONE AREA 'B'

SHEET NO.
AI-629E

ISSUANCES

No.	Description	Date
1	DD ISSUANCE - NIH	02/05/20
2	CD ISSUANCE - NIH	04/14/20
3	BID & PERMIT - NIH	05/22/20

Drawn By

Author

Checked By

Checker

Client Number 514

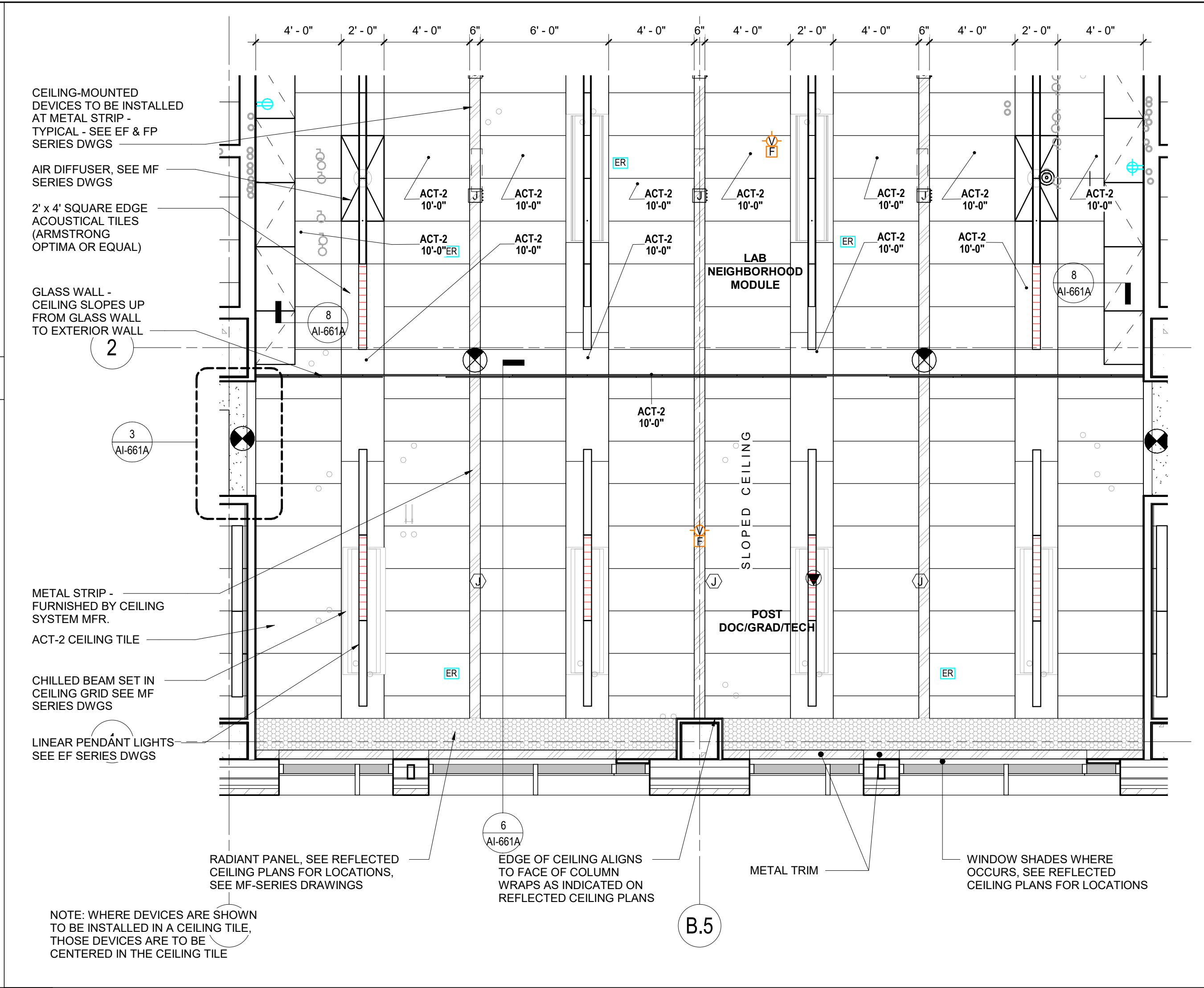
Project Number 5350

DRAWING TITLE

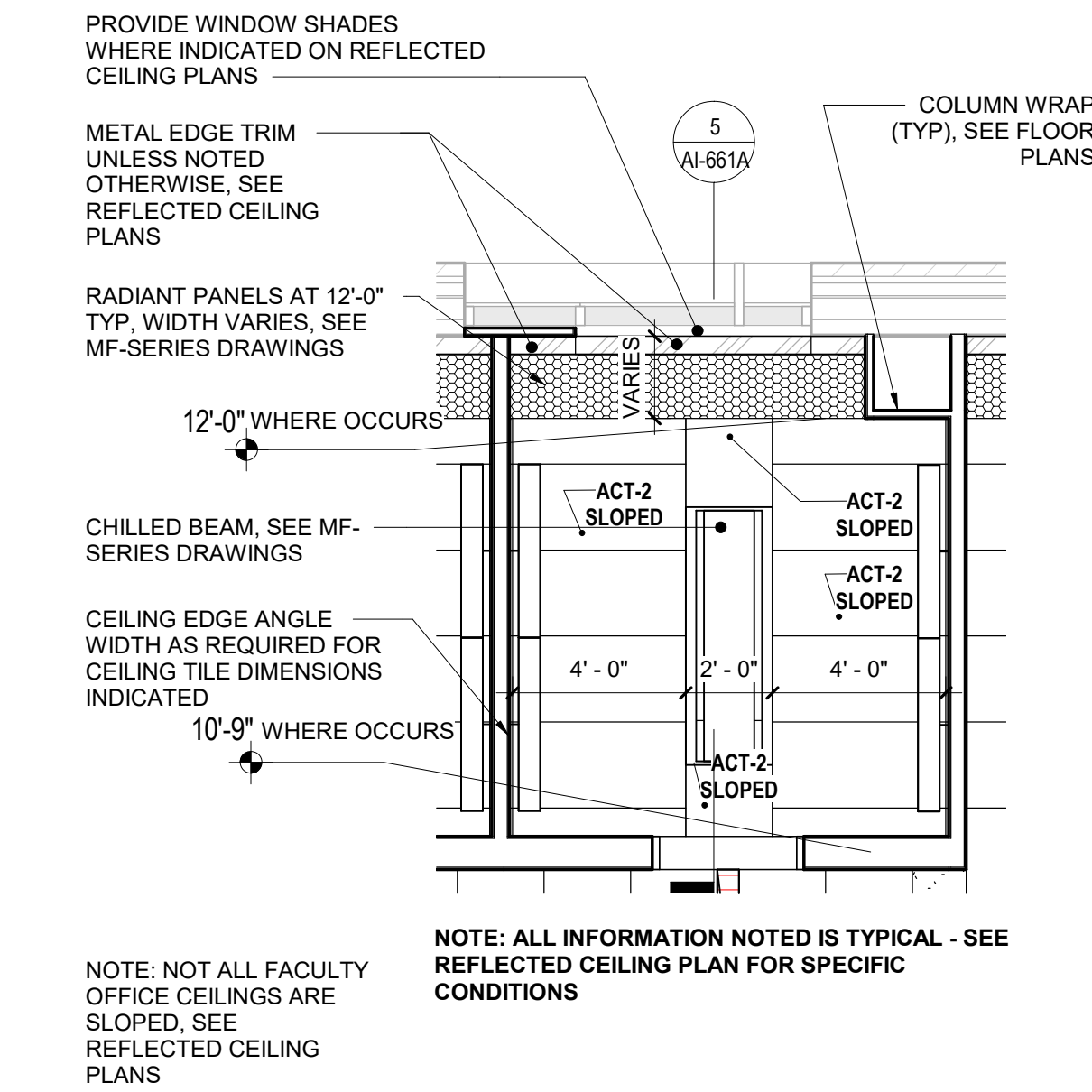
DETAILS - CEILING

SHEET NO.

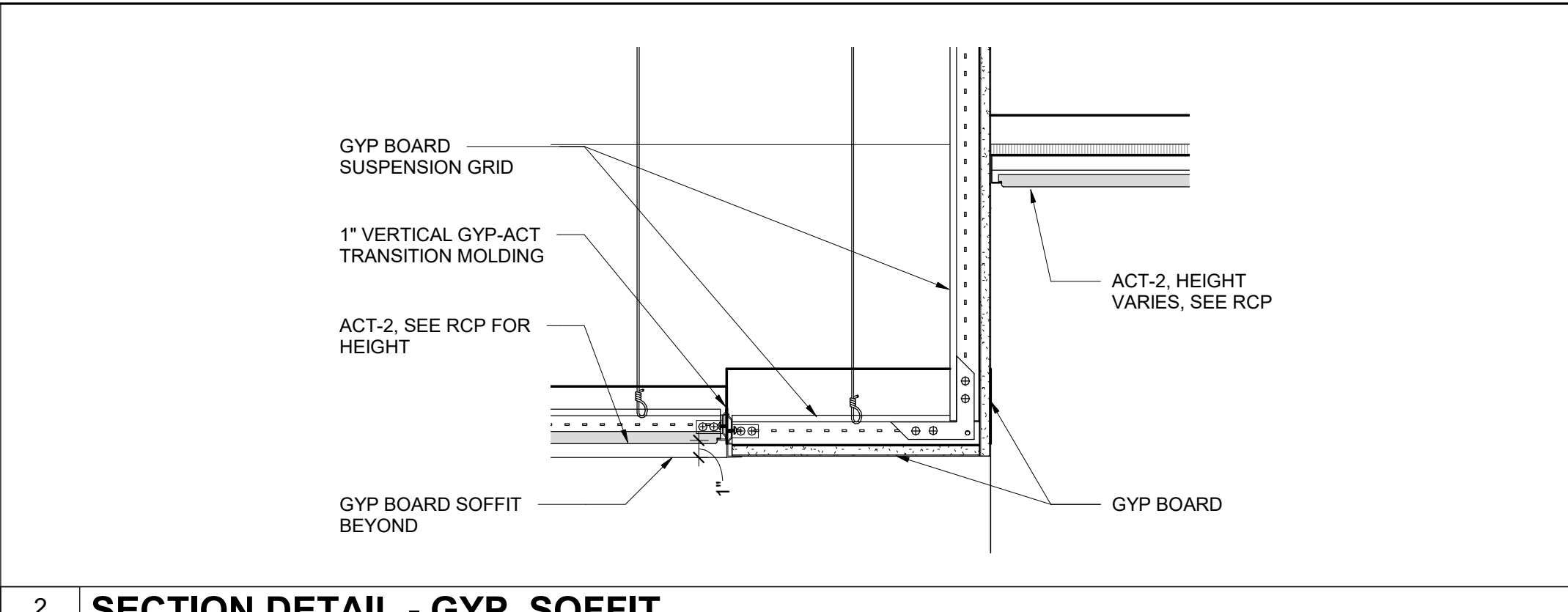
AI-661A



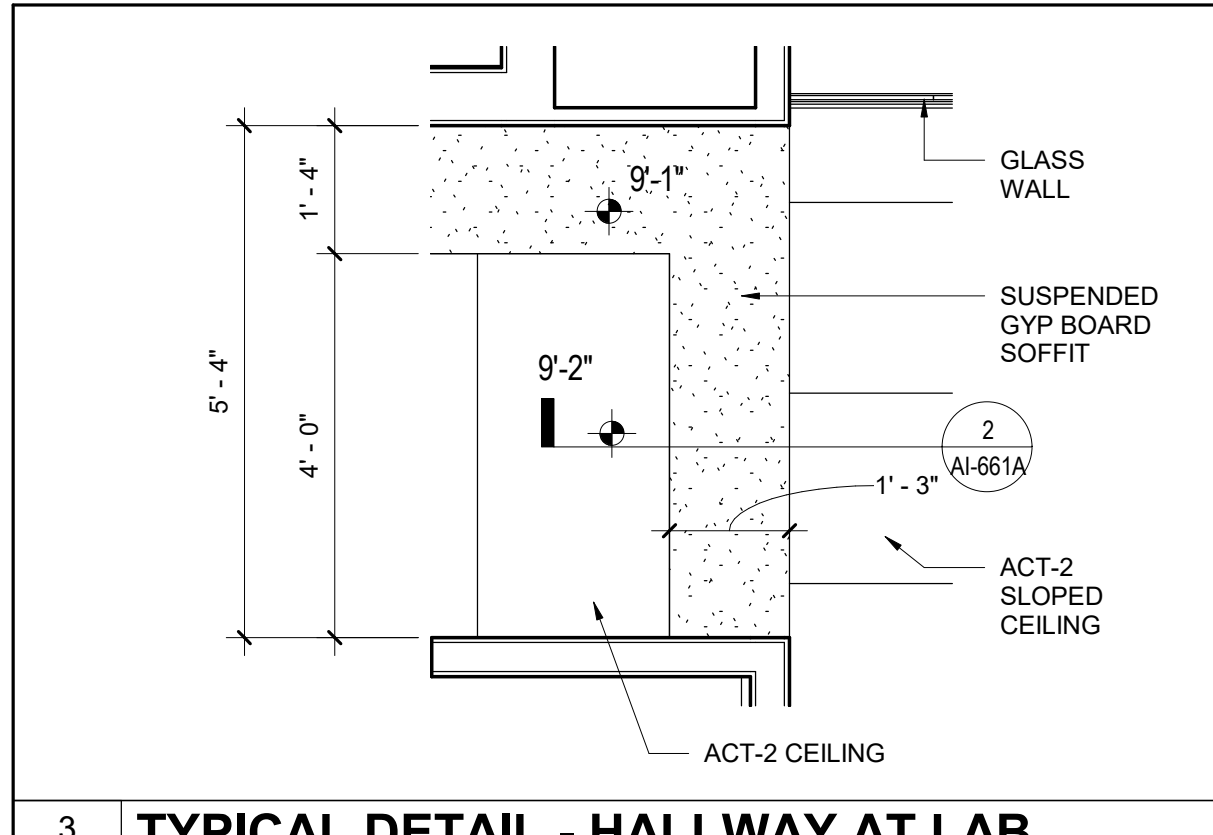
1 RCP - TYPICAL POST/DOC/GRAD & LAB
AI-661A 1/4" = 1'-0"



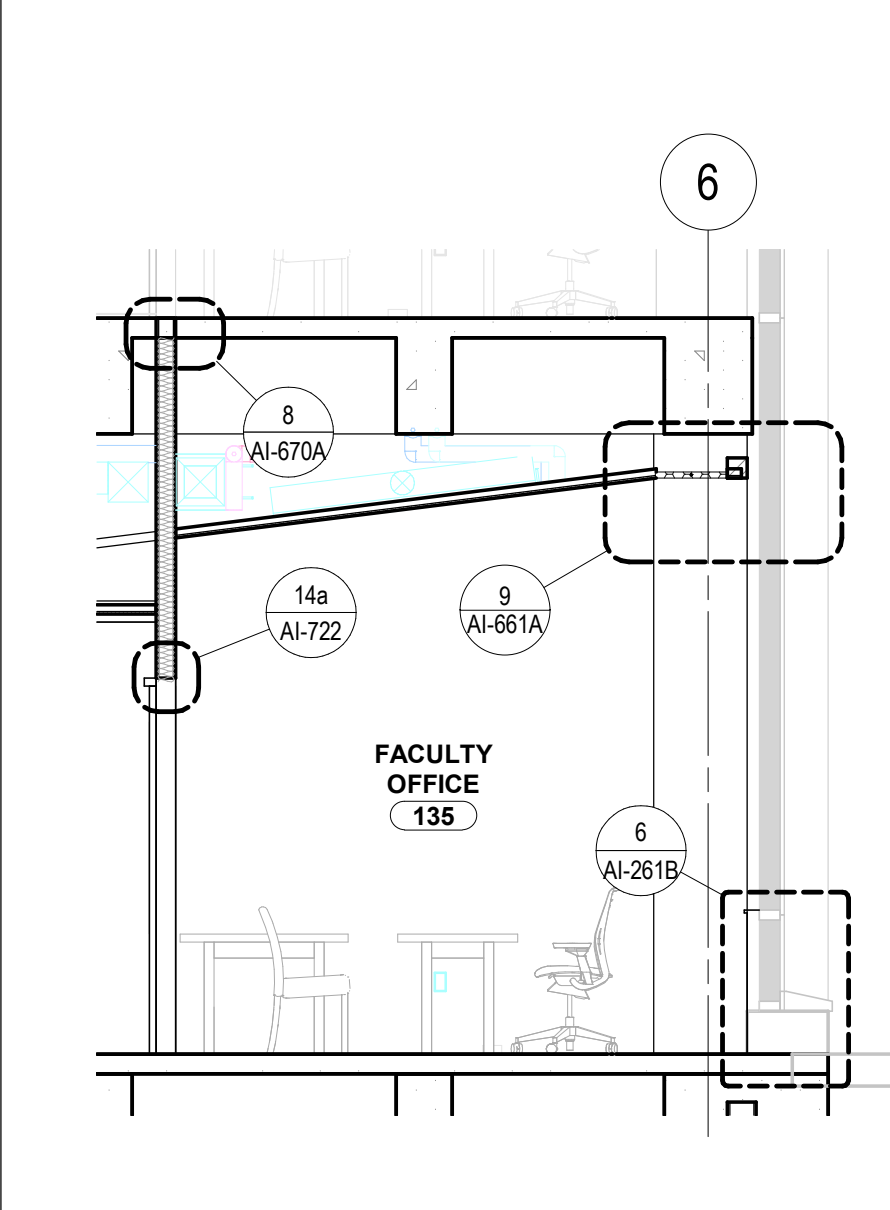
4 RCP - TYPICAL FACULTY OFFICE
AI-661A 1/4" = 1'-0"



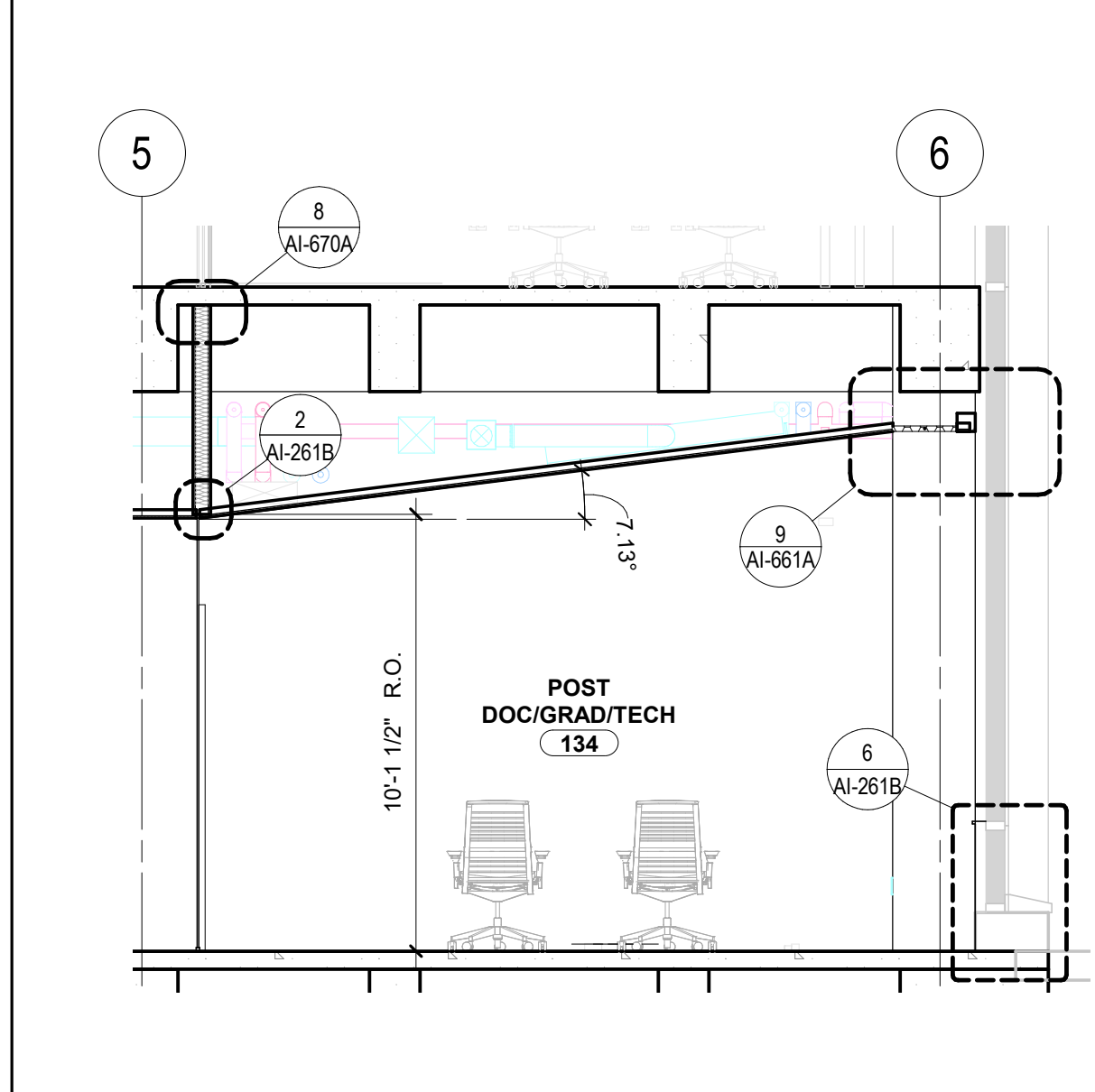
2 SECTION DETAIL - GYP. SOFFIT
AI-661A 1 1/2" = 1'-0"



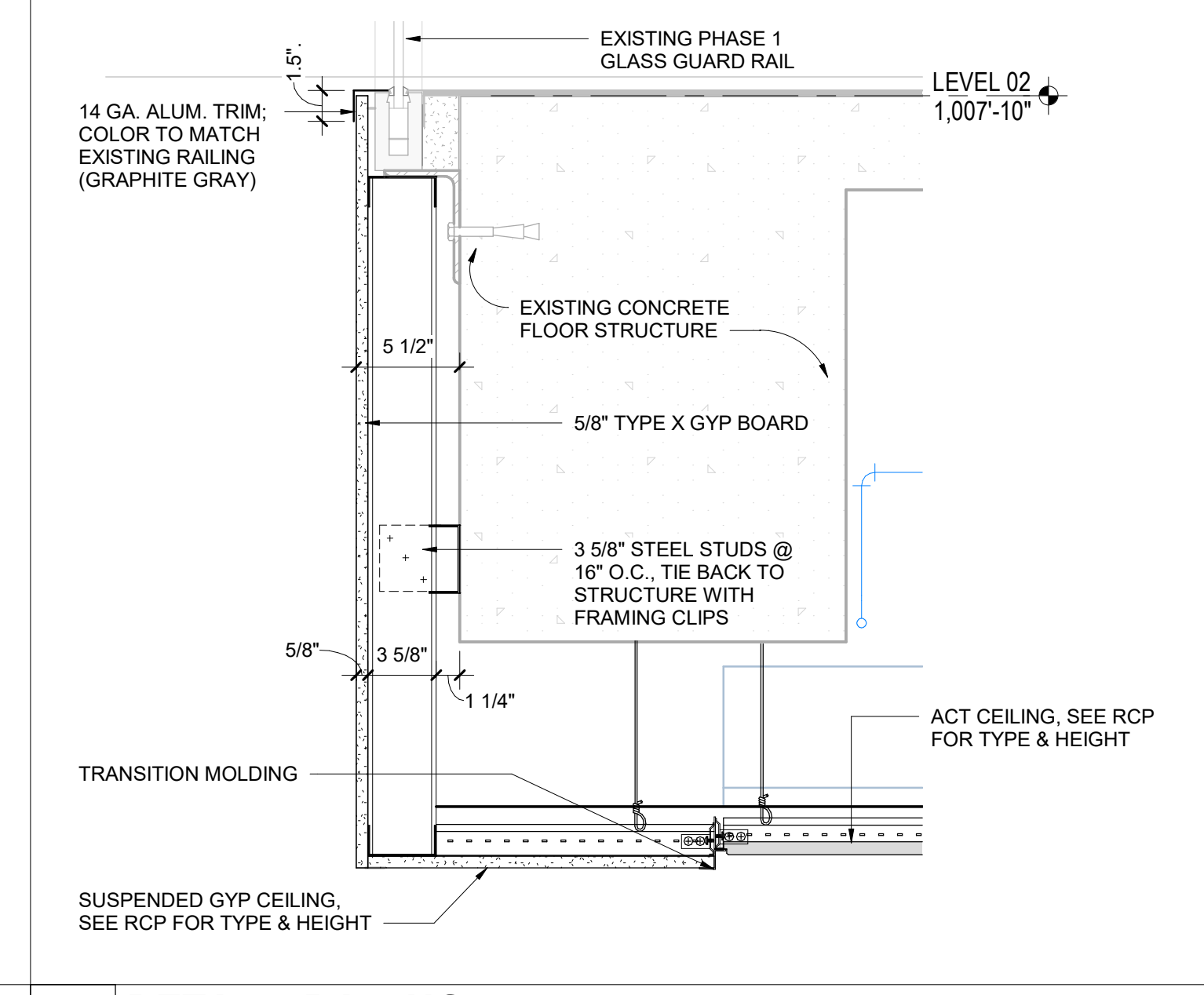
3 TYPICAL DETAIL - HALLWAY AT LAB.
AI-661A 1/2" = 1'-0"



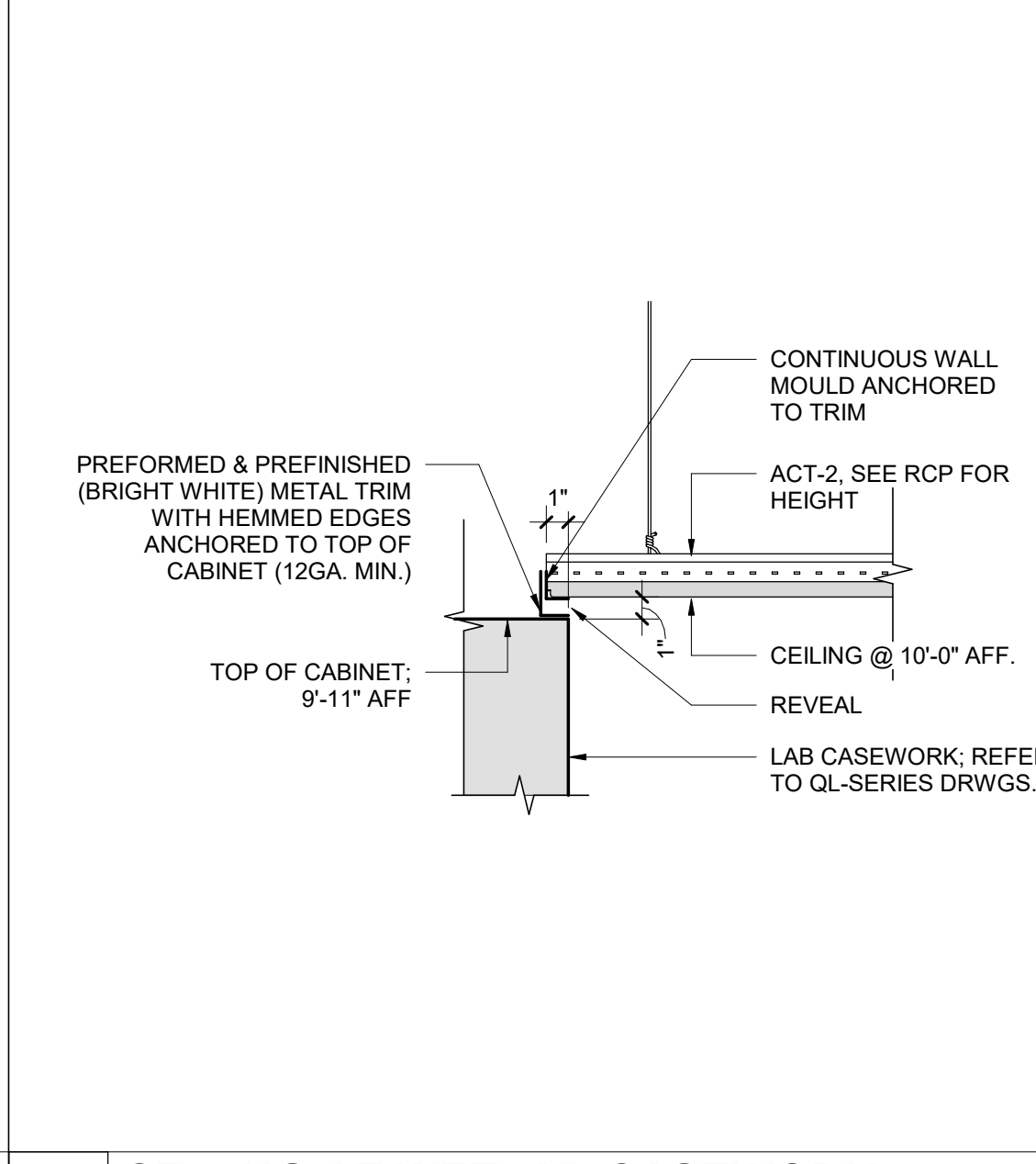
5 SECTION - FACULTY OFFICE
AI-661A 1/4" = 1'-0"



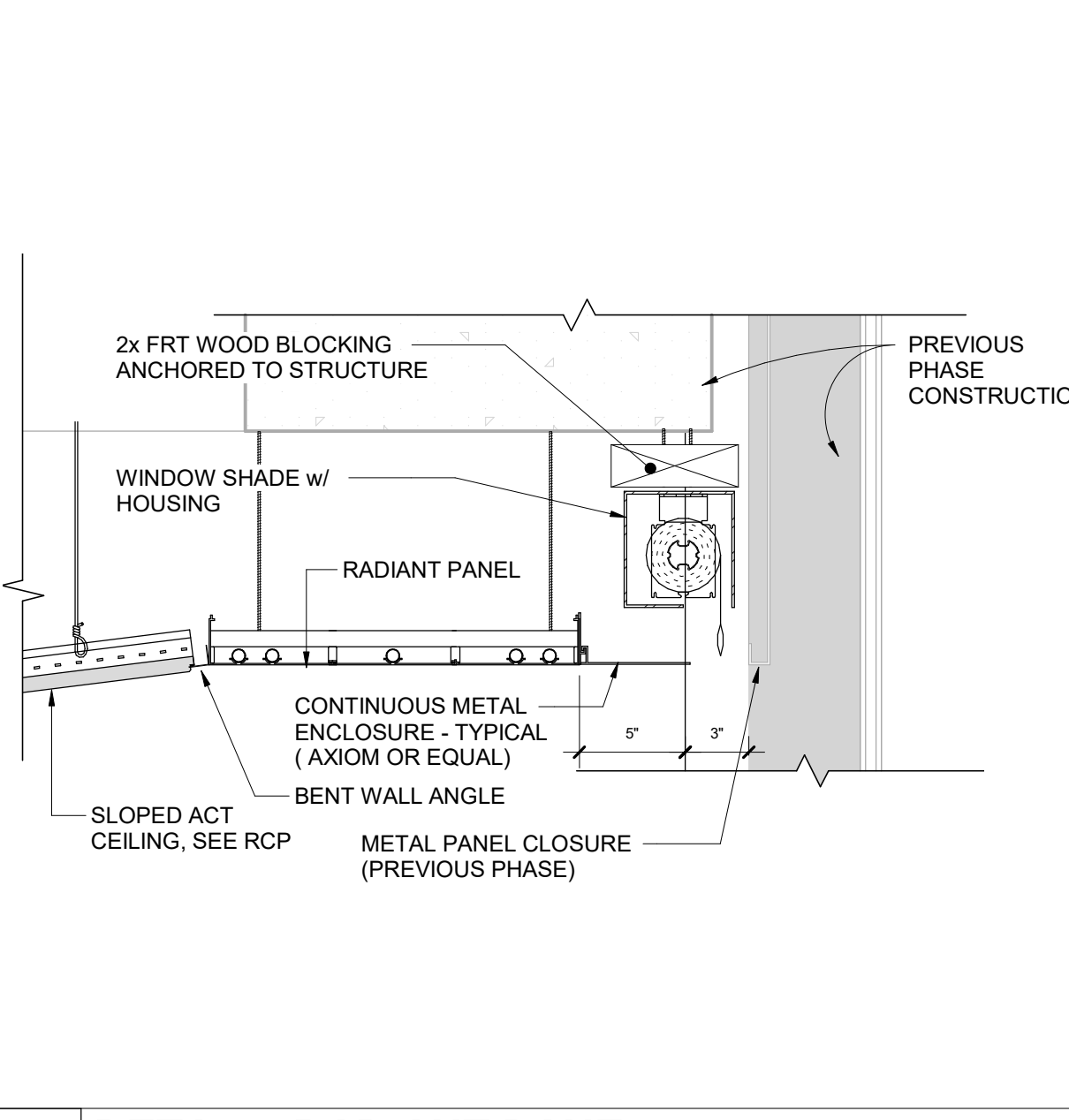
6 SECTION - POST /DOC/GRAD
AI-661A 1/4" = 1'-0"



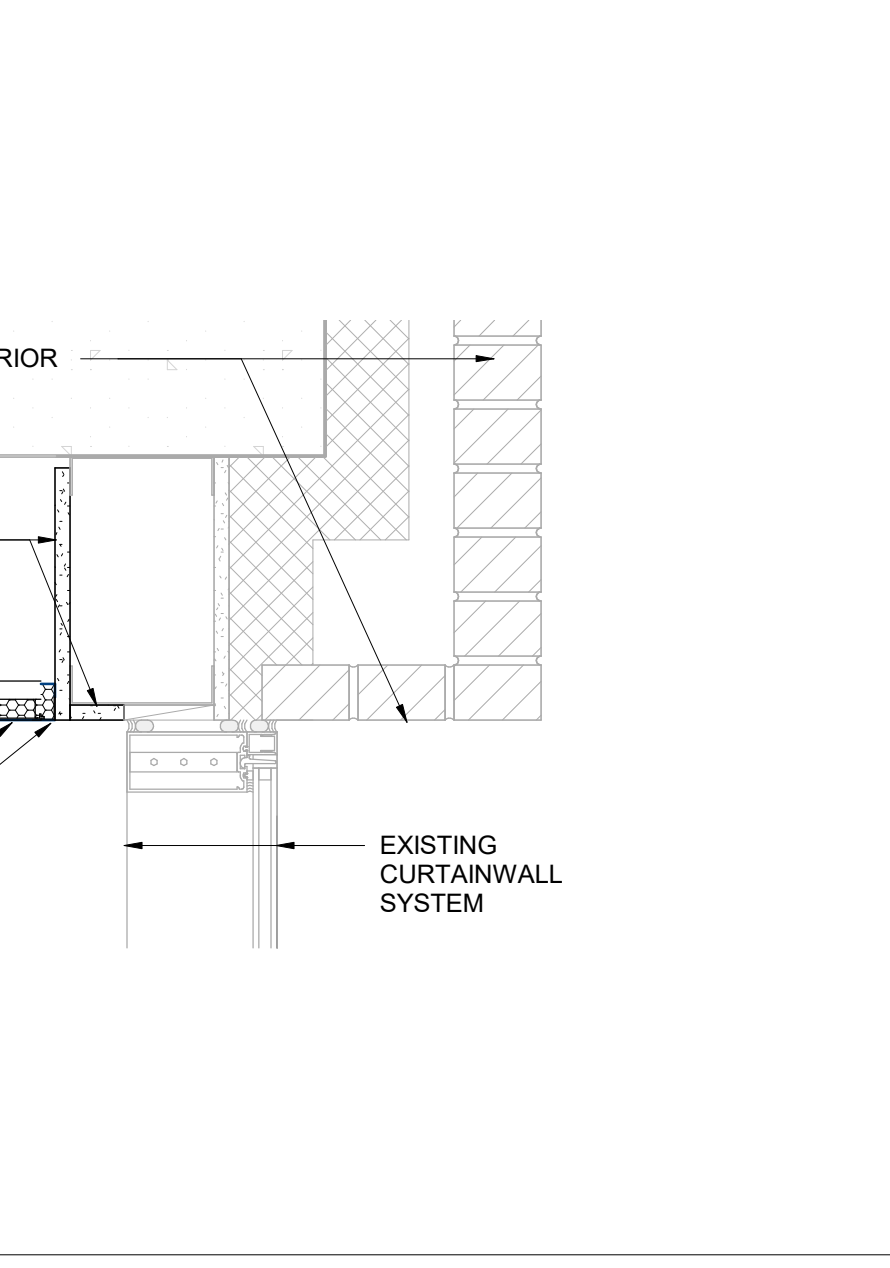
7 DETAIL - RAILING
AI-661A 1 1/2" = 1'-0"



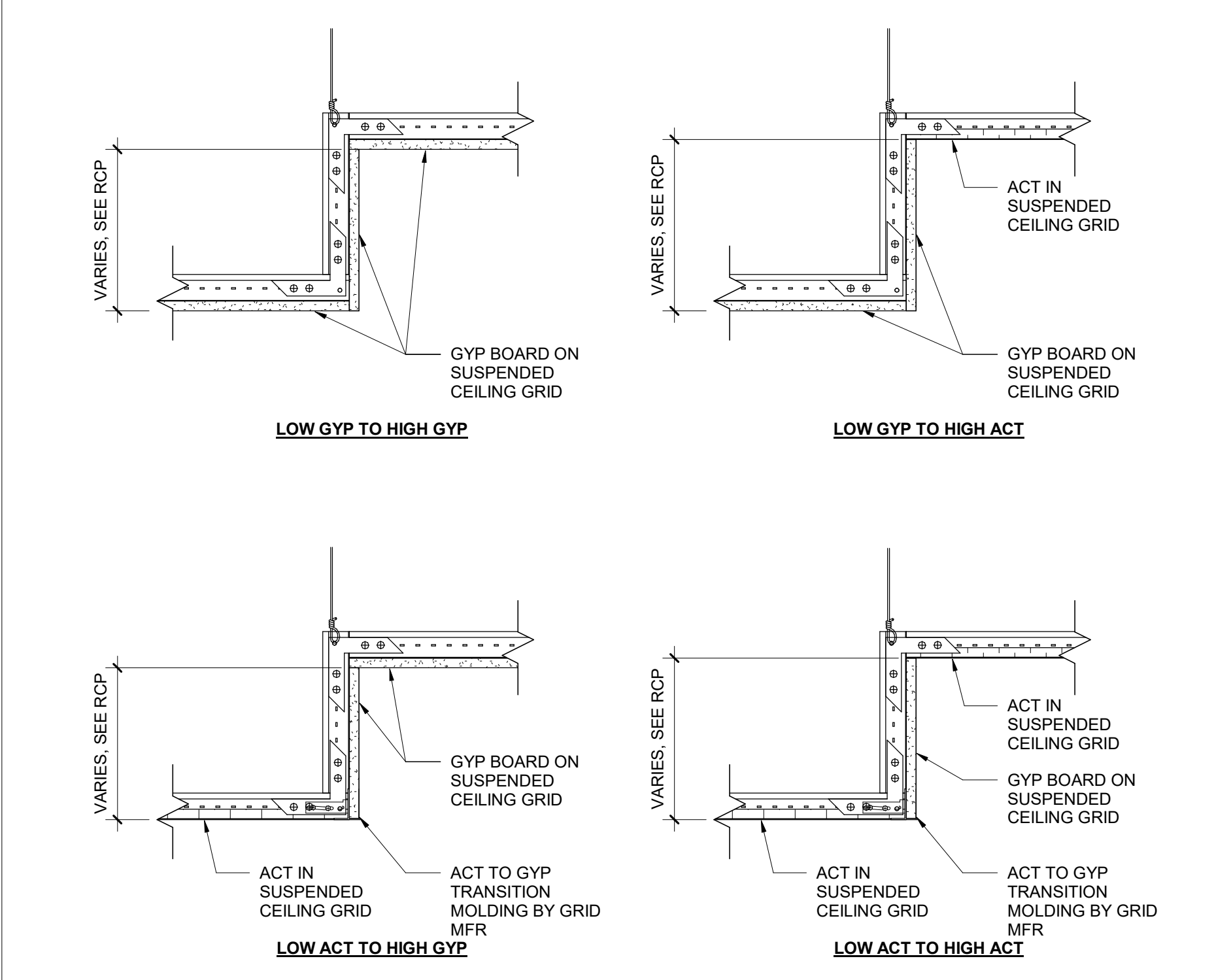
8 CEILING AT WETLAB CASEWORK
AI-661A 1 1/2" = 1'-0"



9 DETAIL - RADIANT PANEL
AI-661A 1 1/2" = 1'-0"



10 DETAIL - CEILING TRANSITION
AI-661A 1 1/2" = 1'-0"



11 TYPICAL CEILING HEIGHT TRANSITIONS
AI-661A 1 1/2" = 1'-0"

ISSUANCES

No.	Description	Date
1	DD ISSUANCE - NIH	02/05/20
2	CD ISSUANCE - NIH	04/14/20
3	BID & PERMIT - NIH	05/22/20

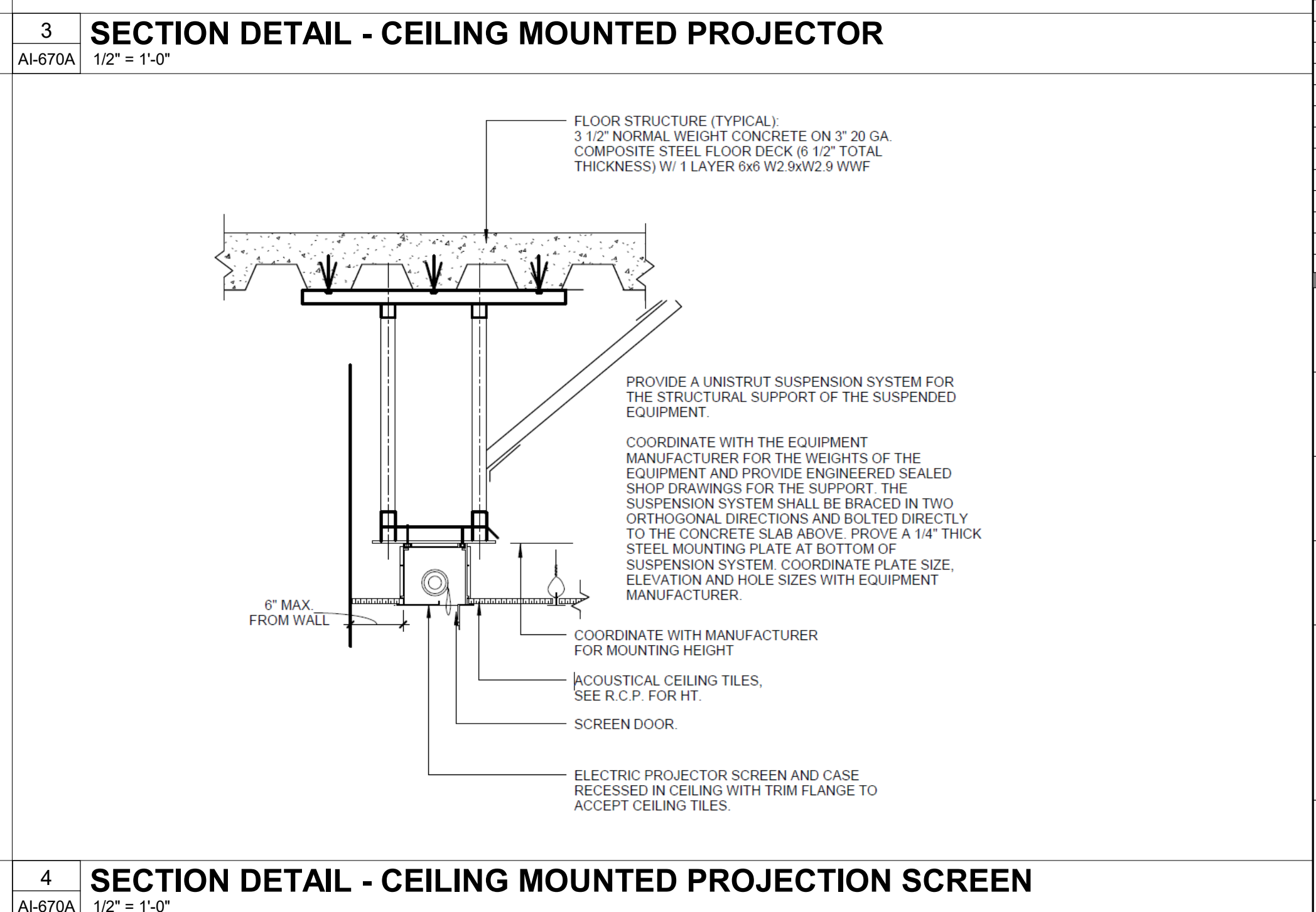
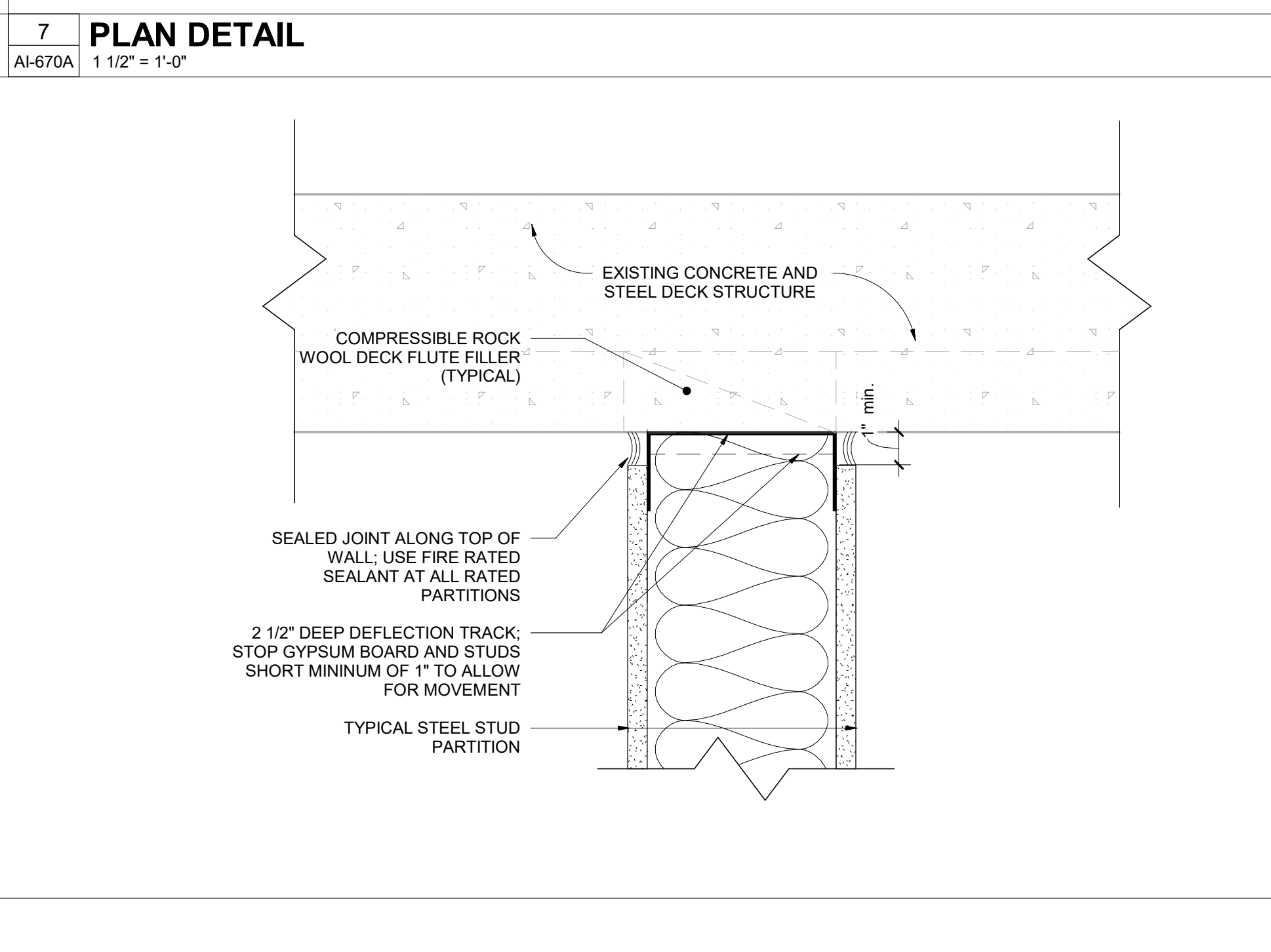
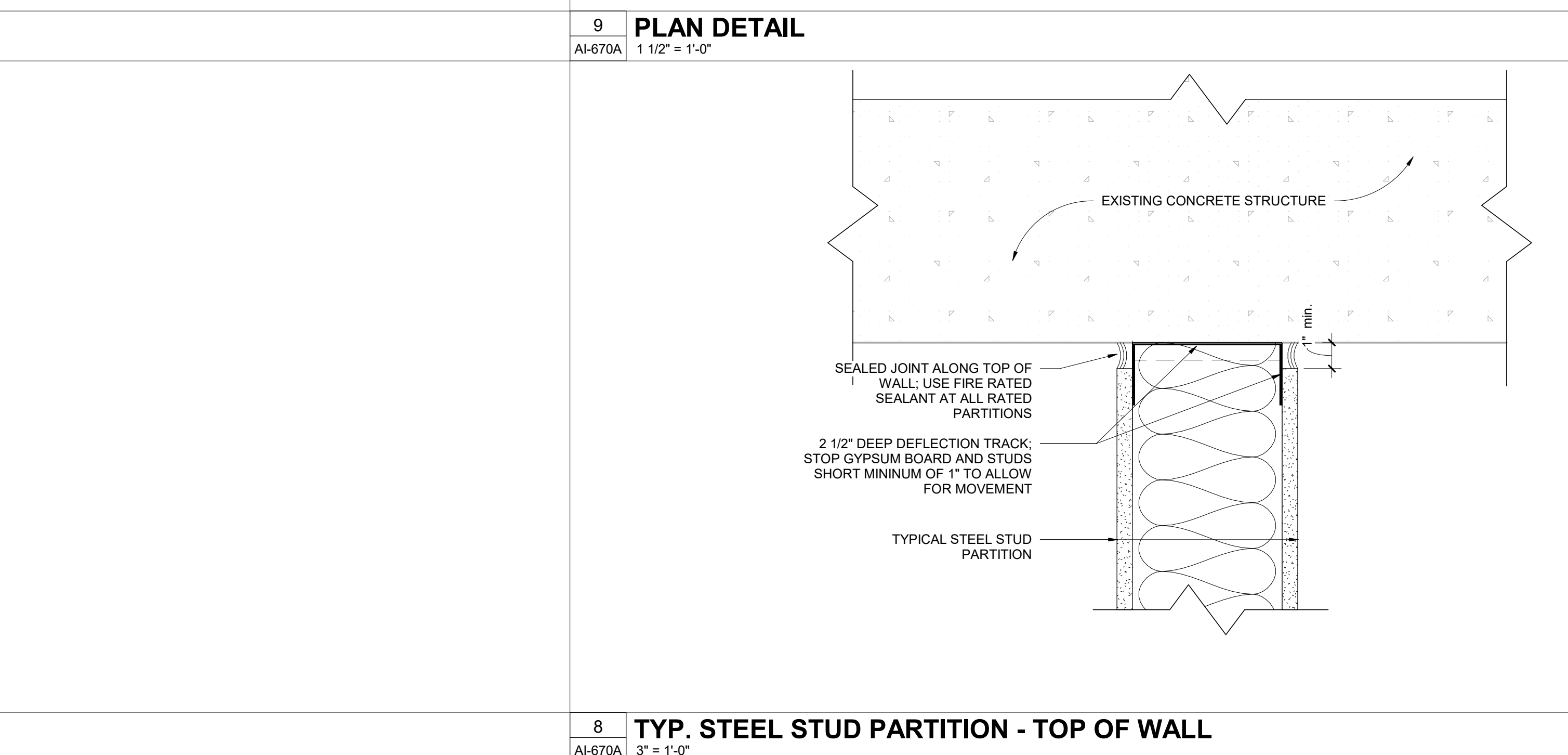
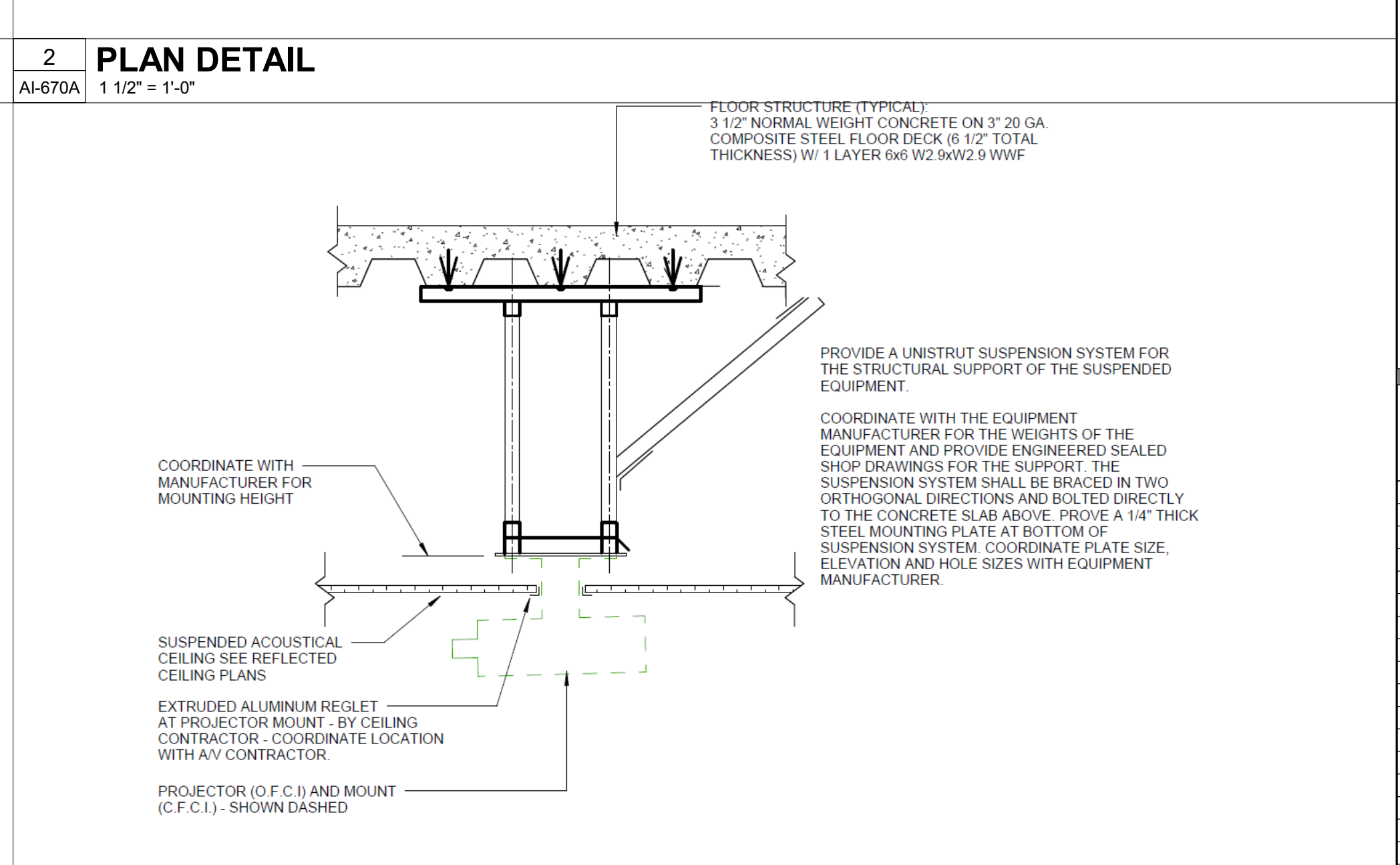
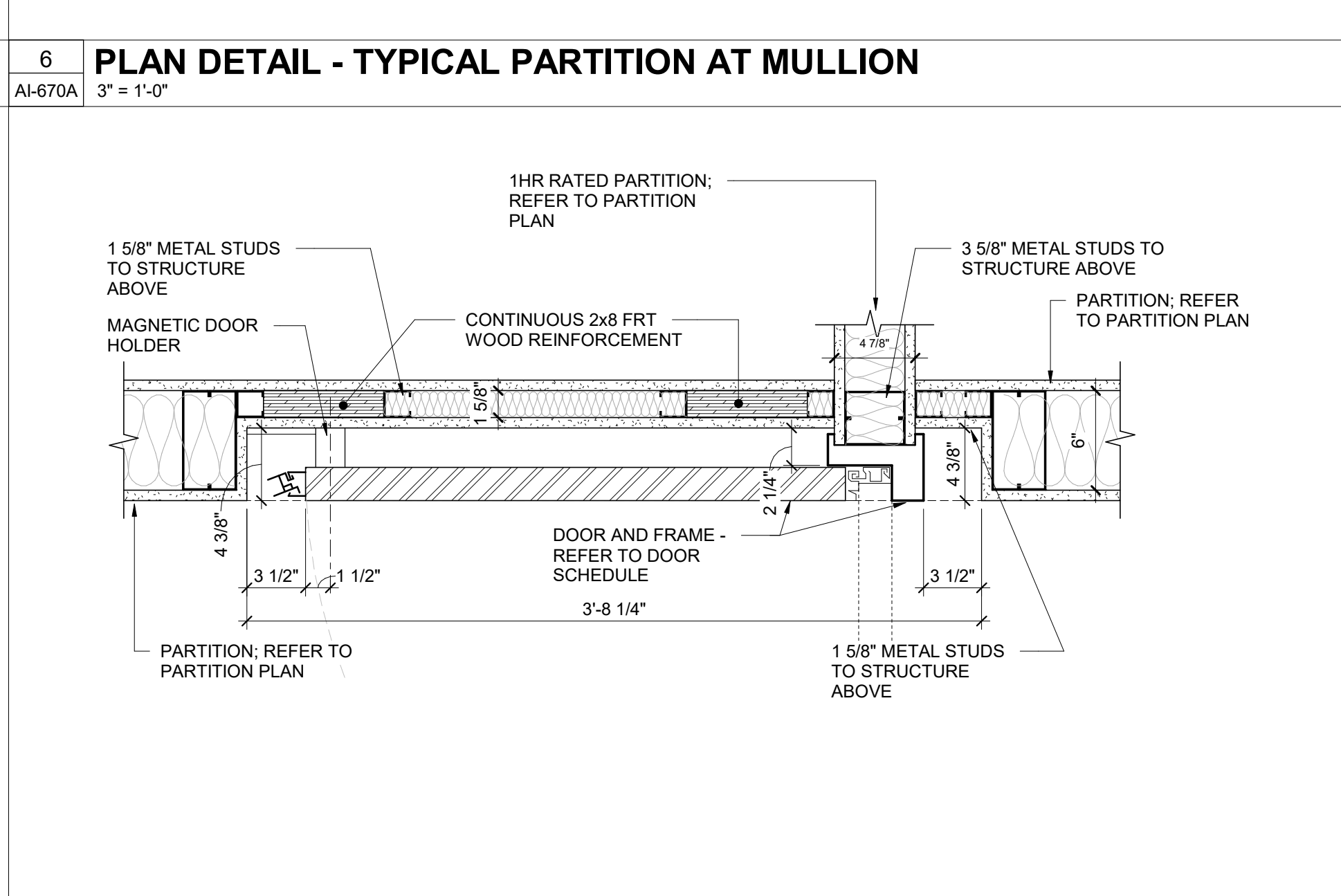
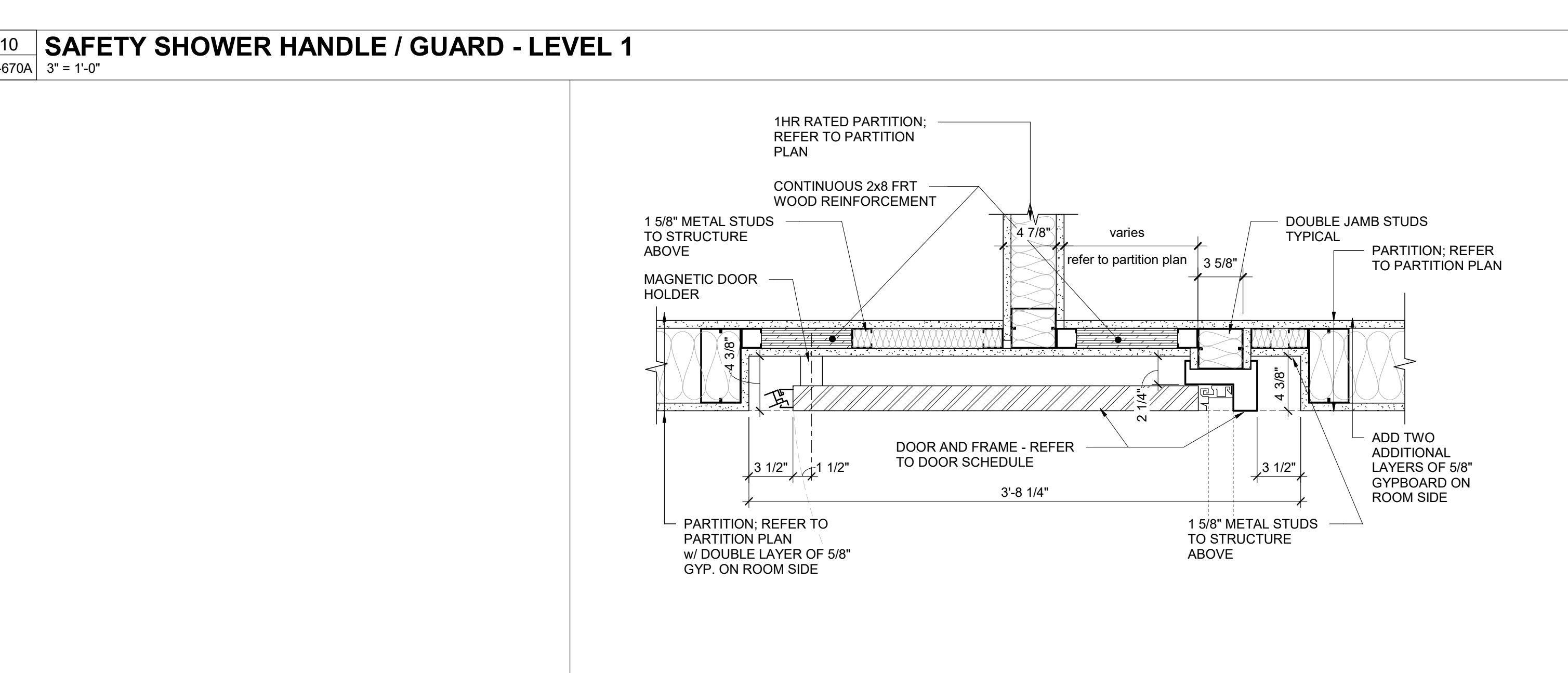
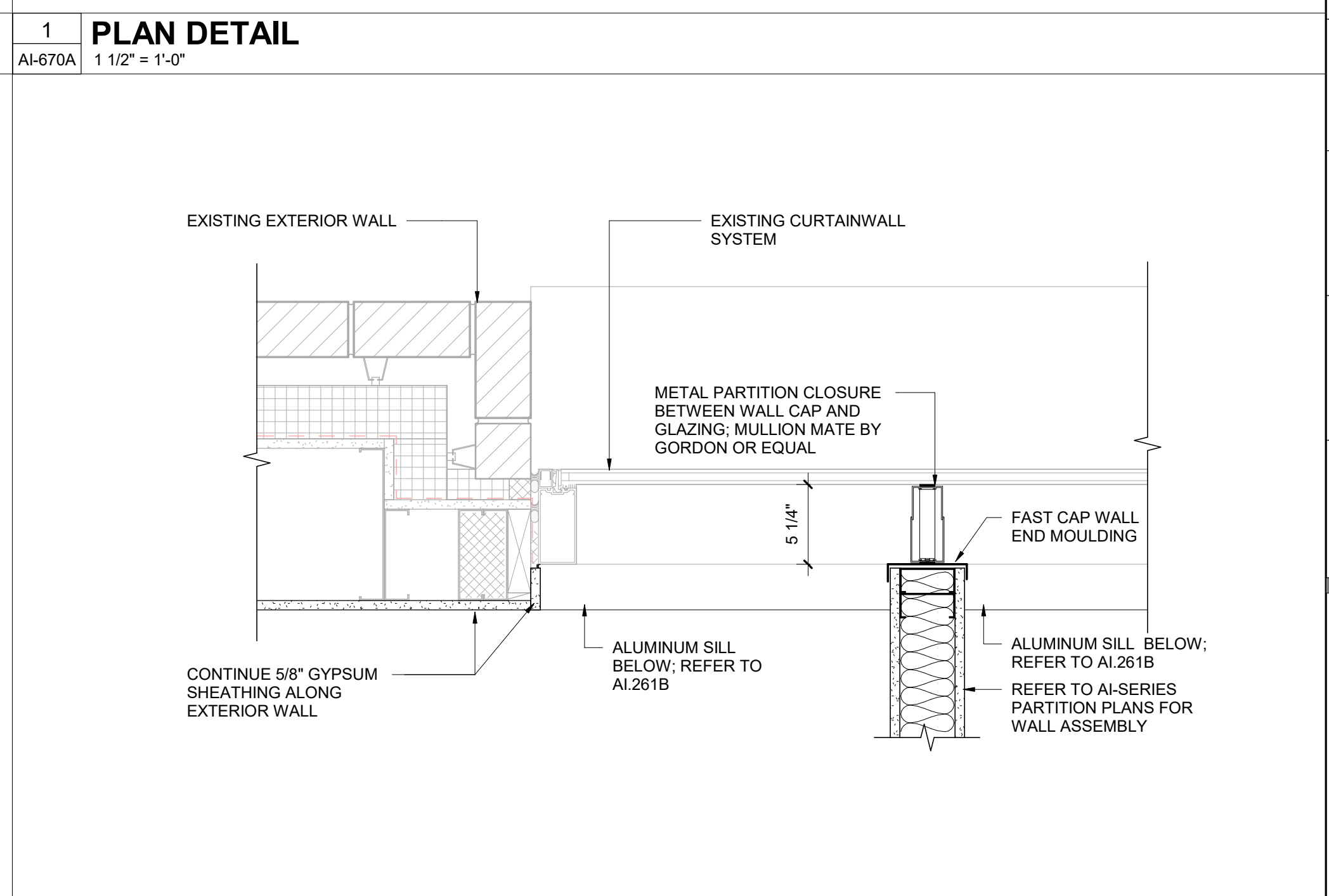
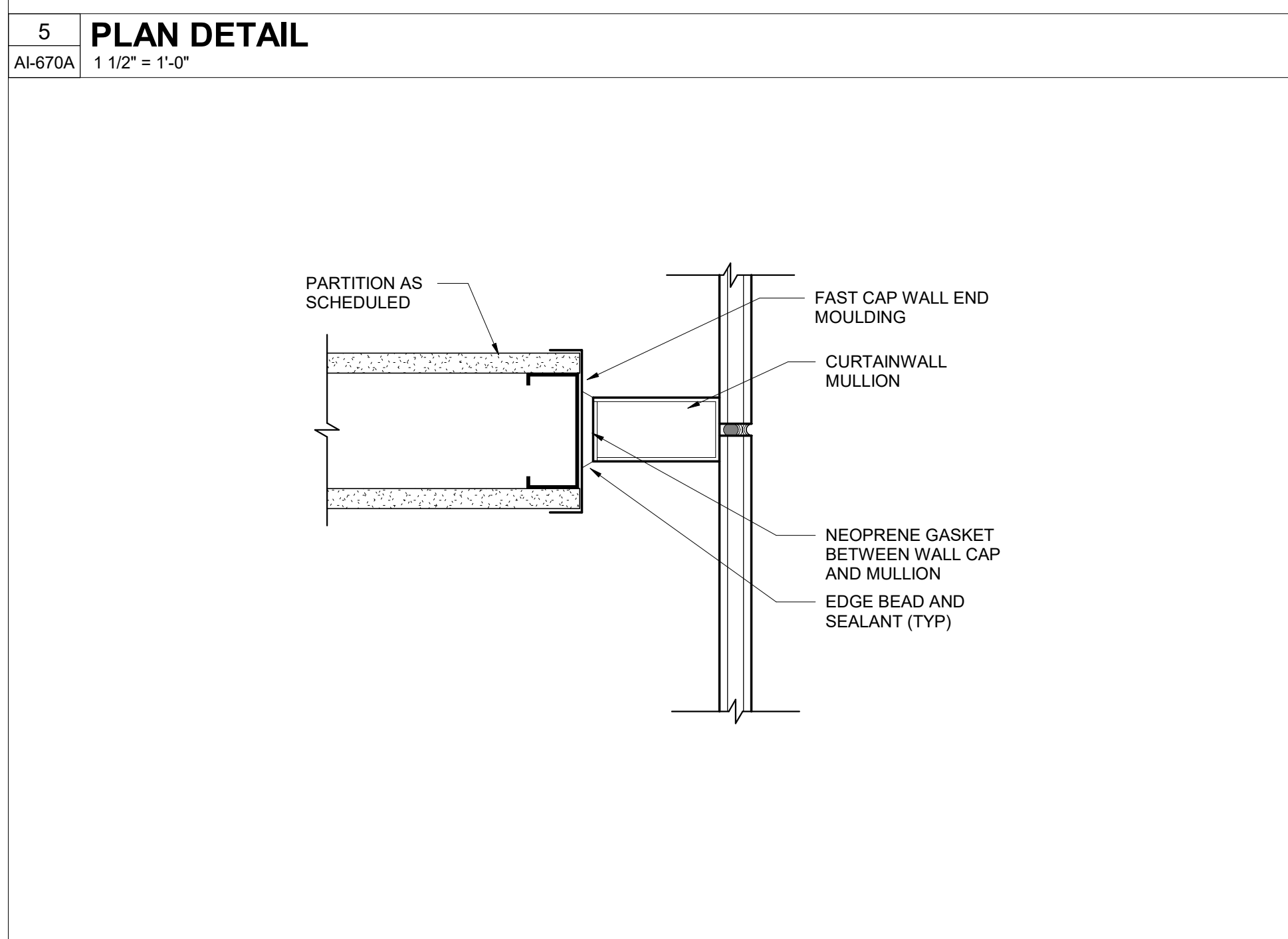
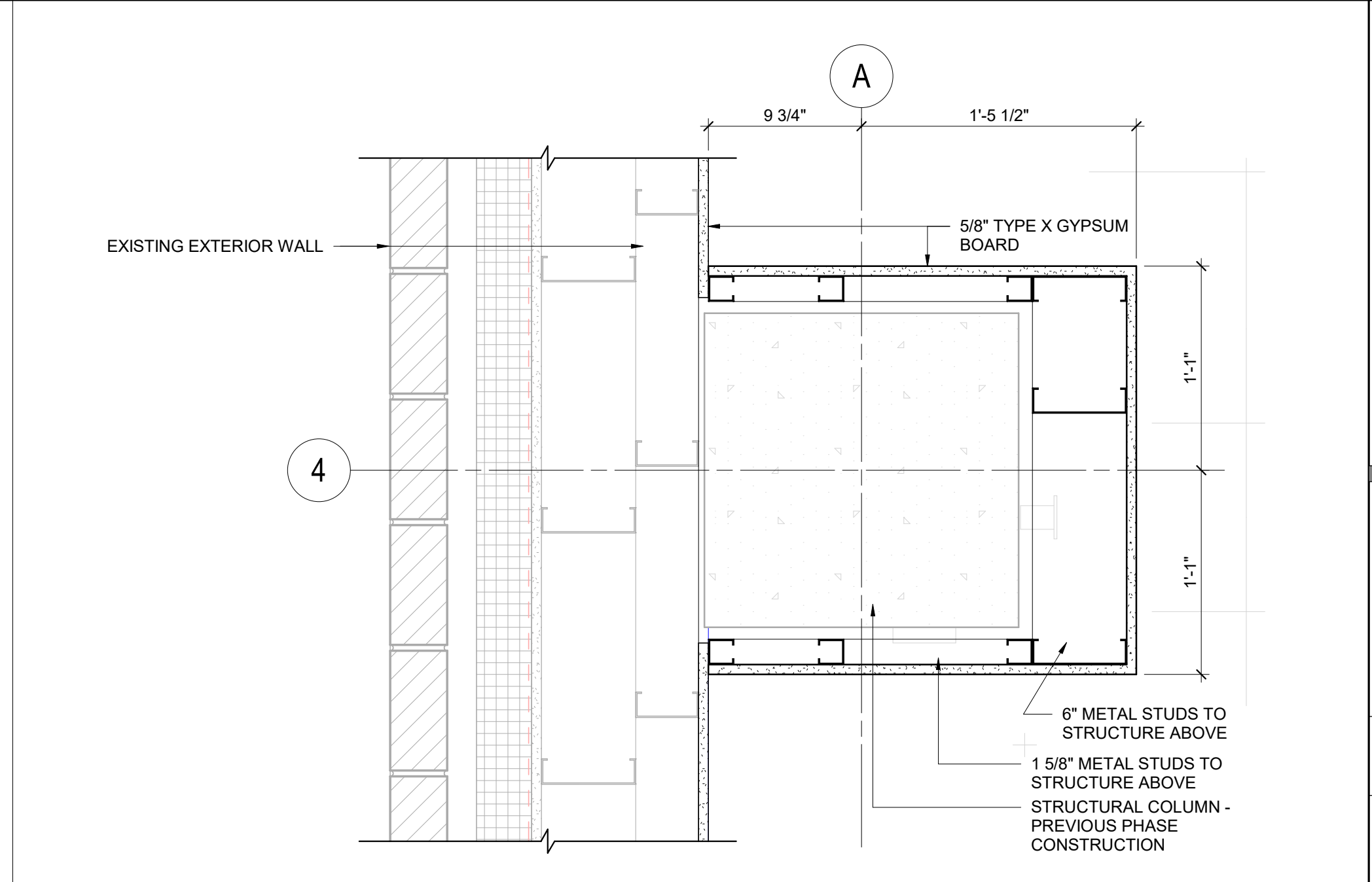
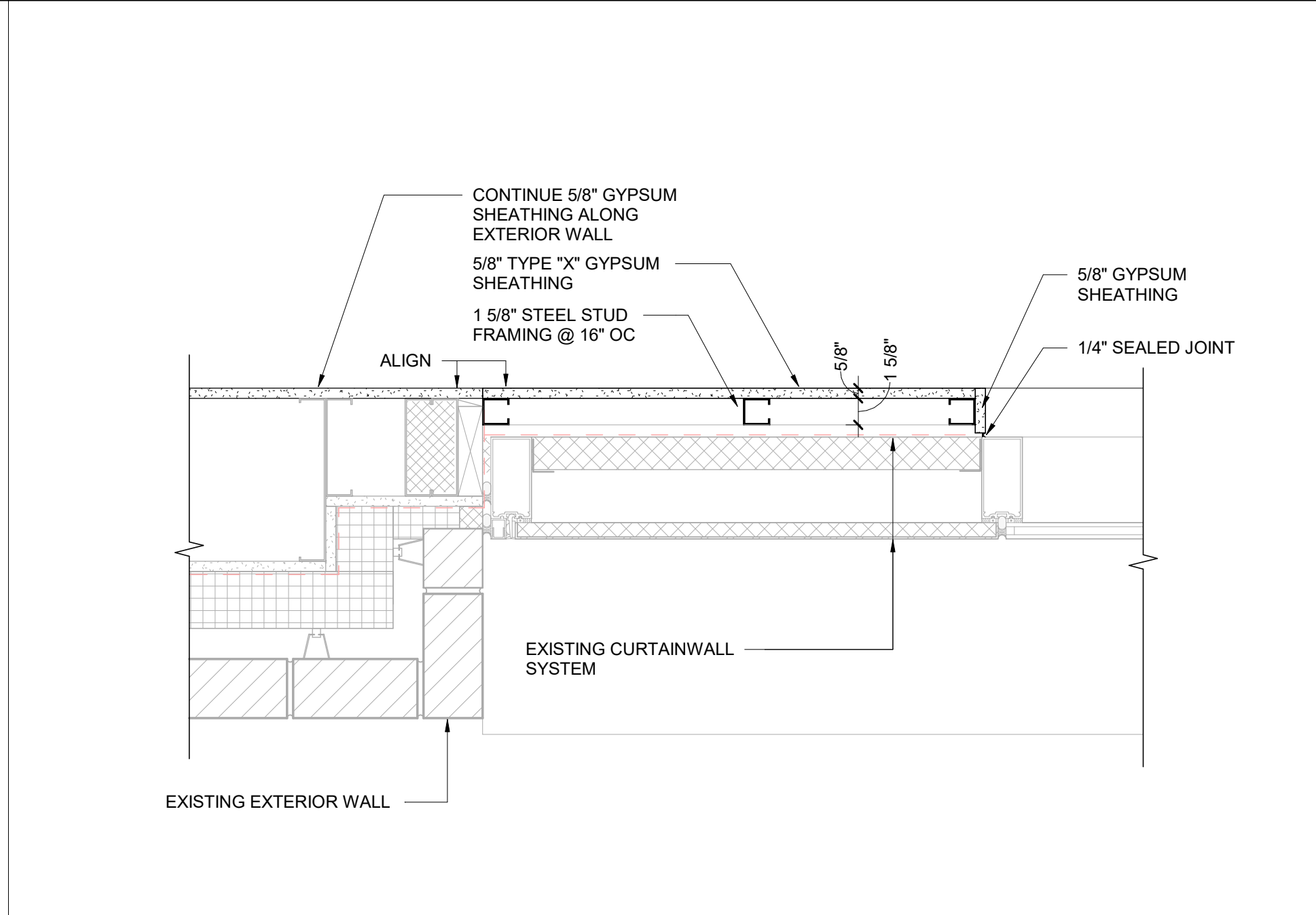
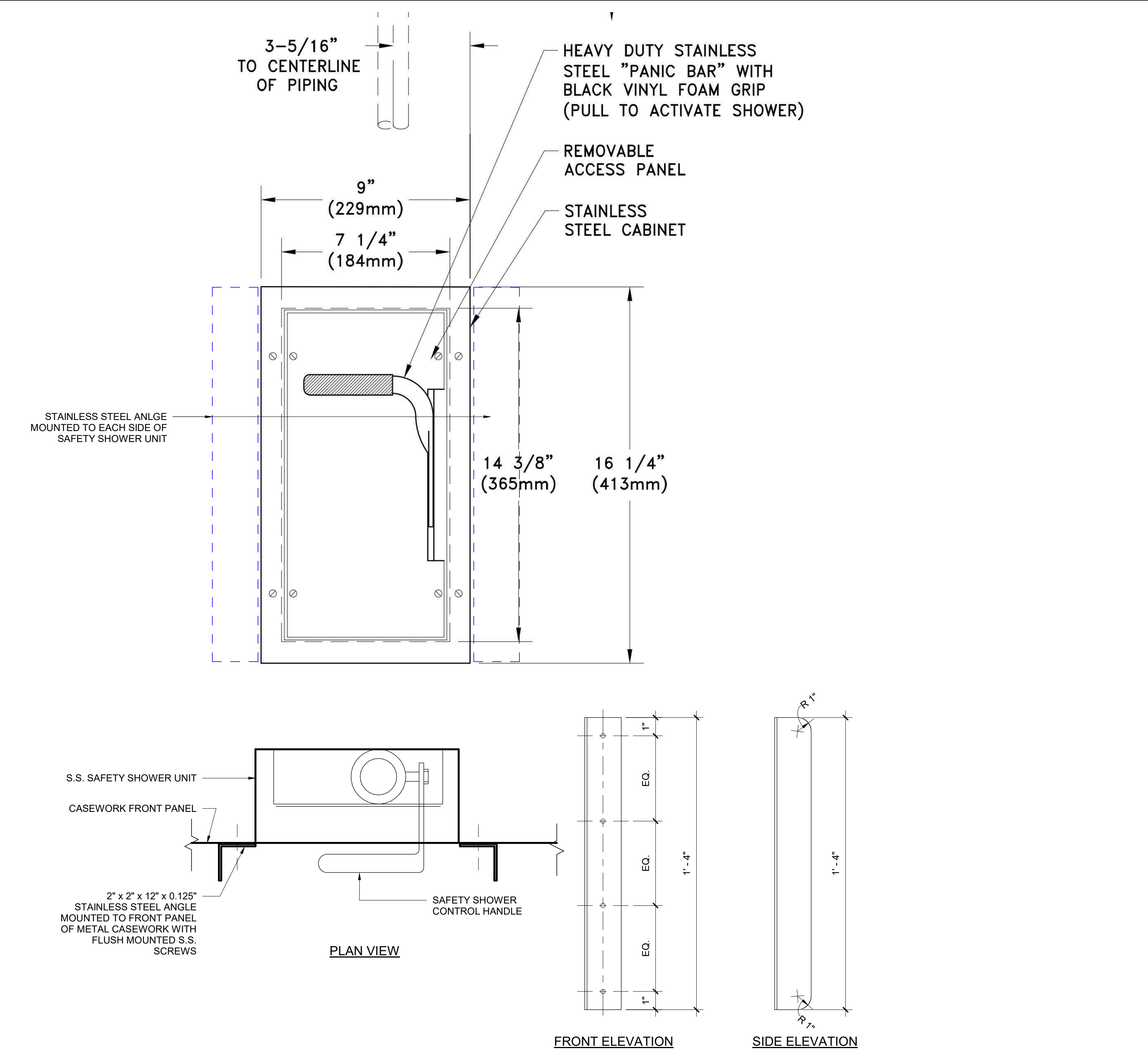
Drawn By: _____
 Author: _____
 Checked By: _____
 Checker: _____
 Client Number: 514
 Project Number: 5350

DRAWING TITLE

DETAILS - MISCELLANEOUS

SHEET NO.
AI-670A

5/19/2020 11:53:46 AM



ISSUANCES

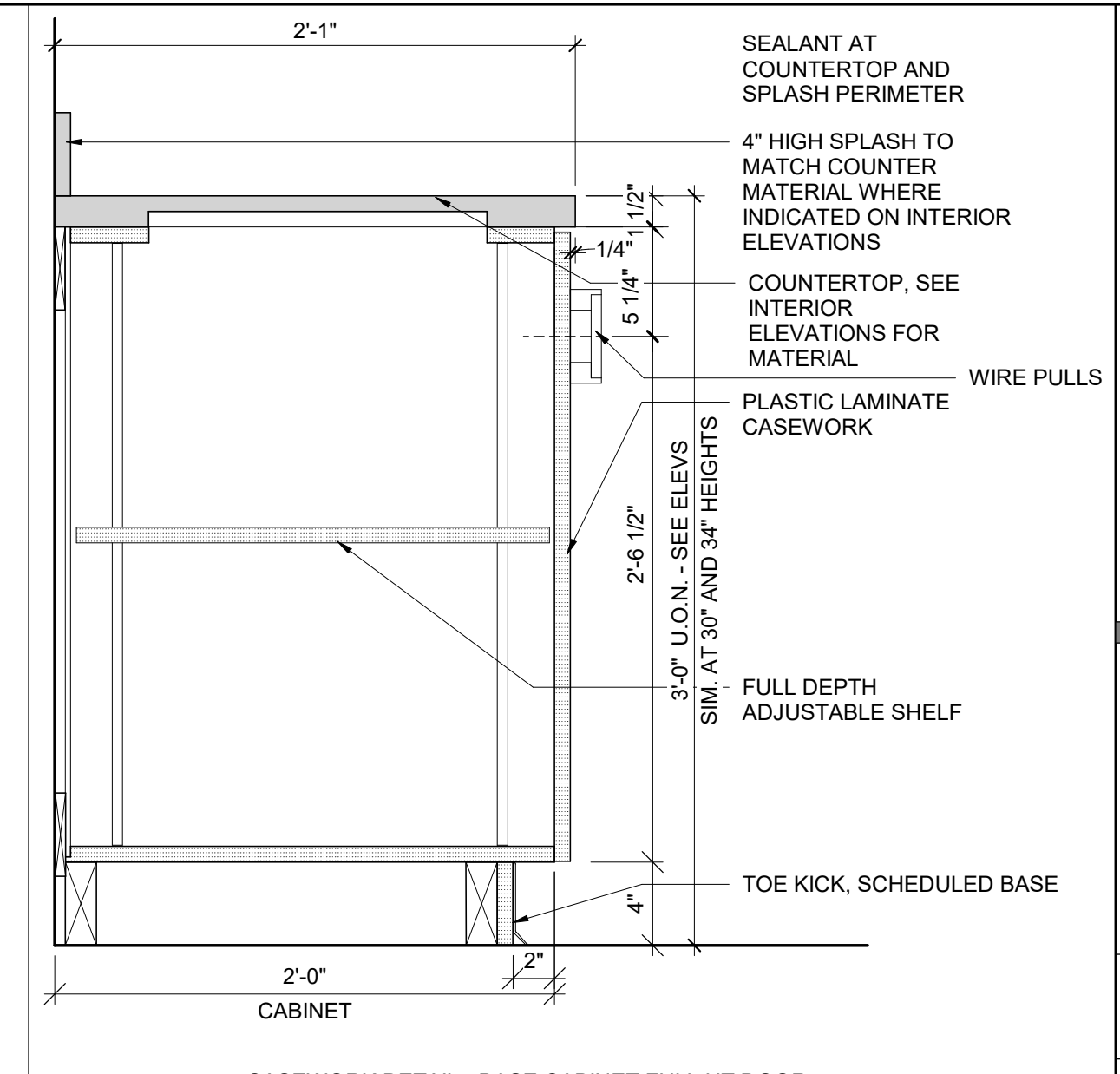
No.	Description	Date
1	DRP #5 - Addendum #1	12/22/16
2	DD ISSUANCE - NIH	02/05/20
3	CD ISSUANCE - NIH	04/14/20
4	BID & PERMIT - NIH	05/22/20

Drawn By
Author
Checked By
Checker
Client Number
514
Project Number
5350

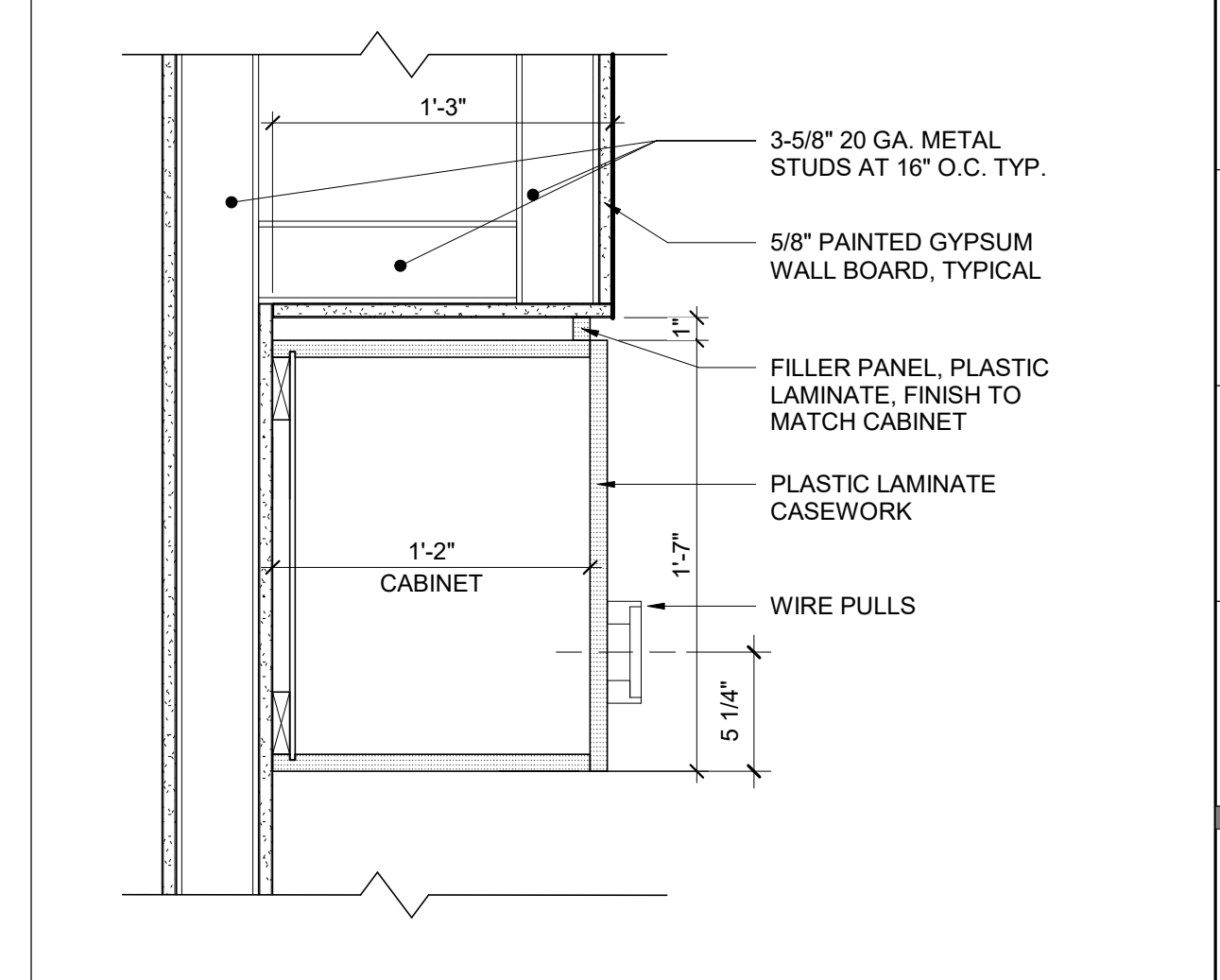
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CASEWORK SECTIONS

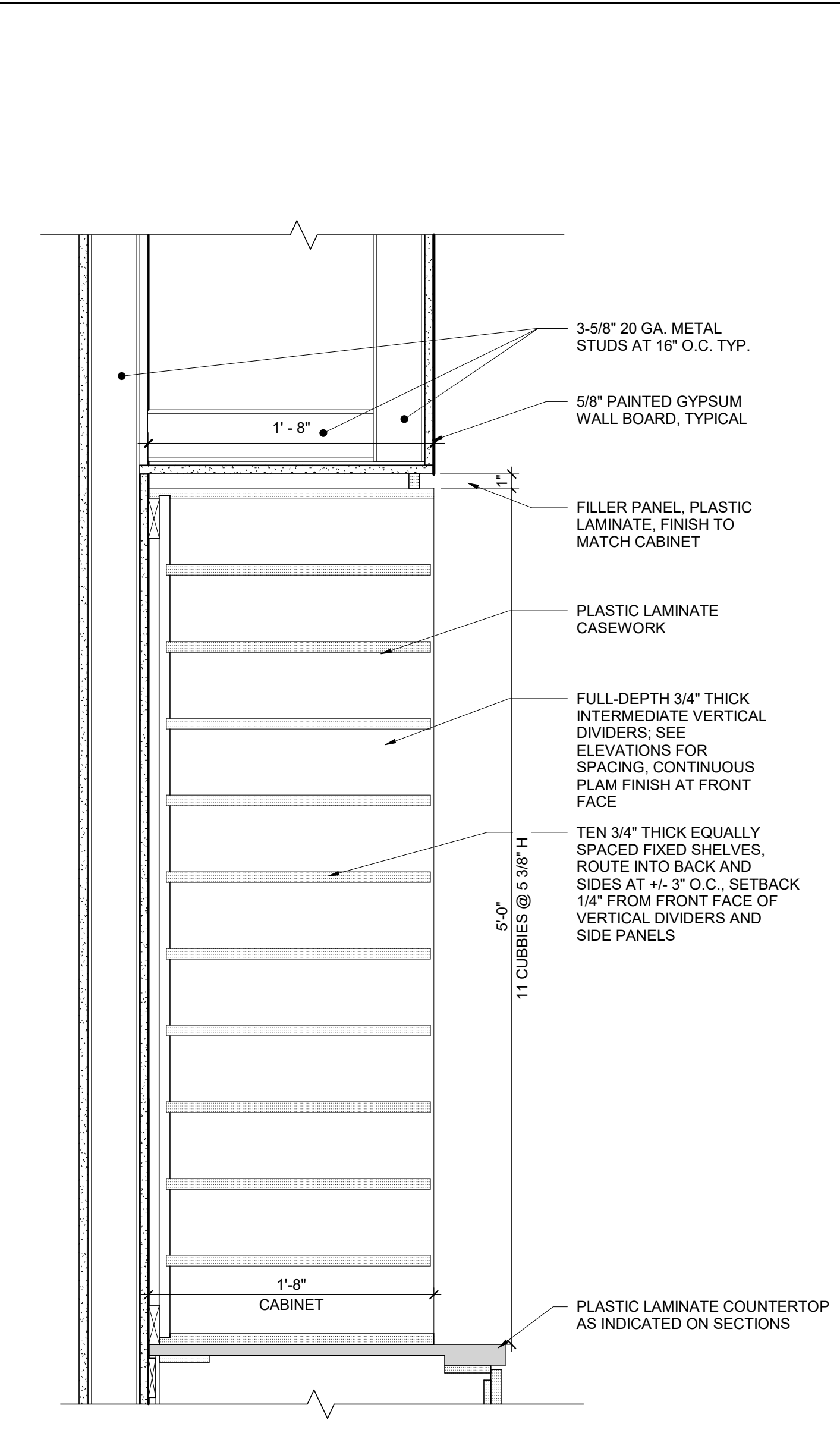
SHEET NO.
AI-679



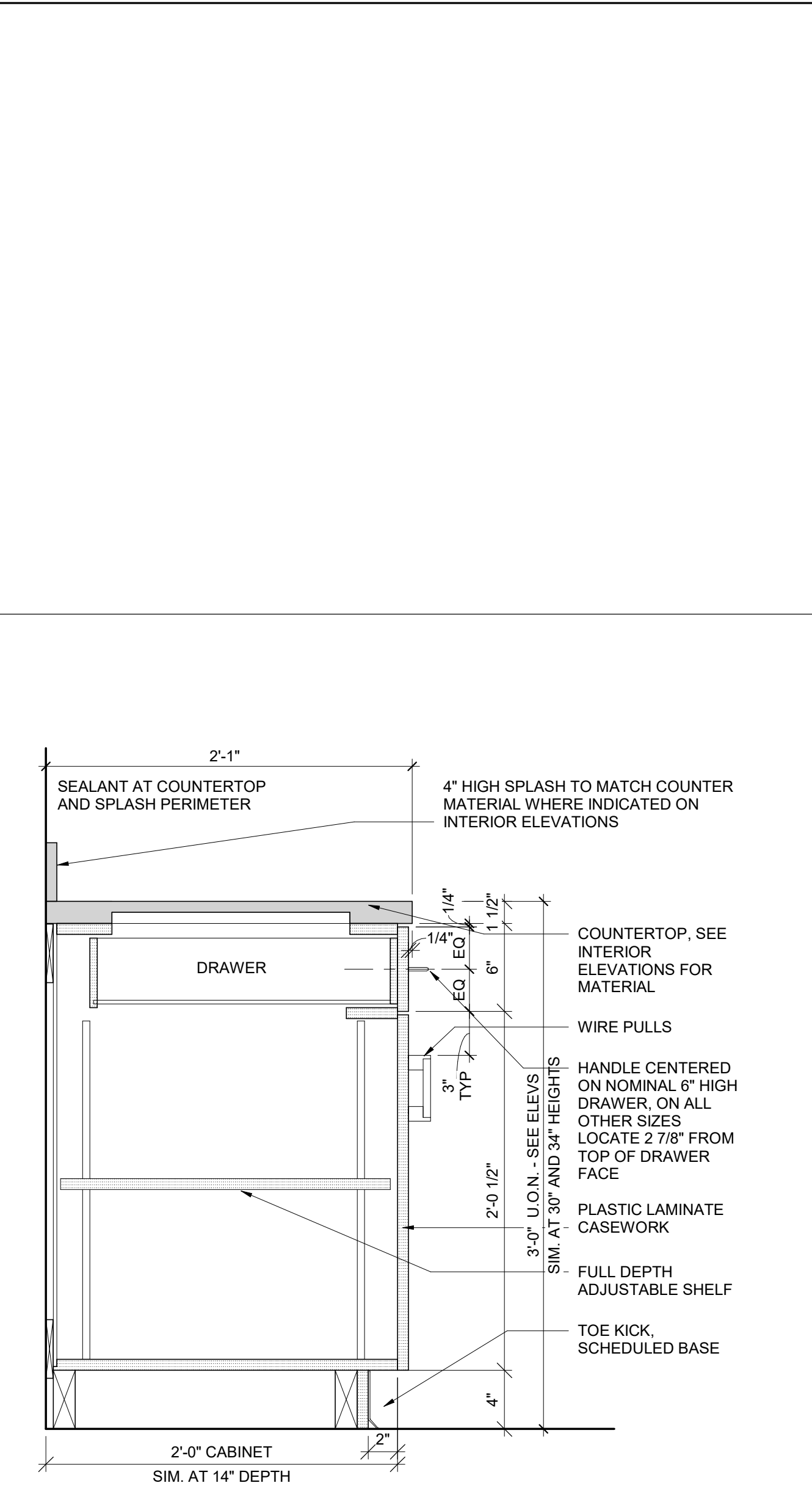
11 **BC-01**
AI-679 1 1/2" = 1'-0"



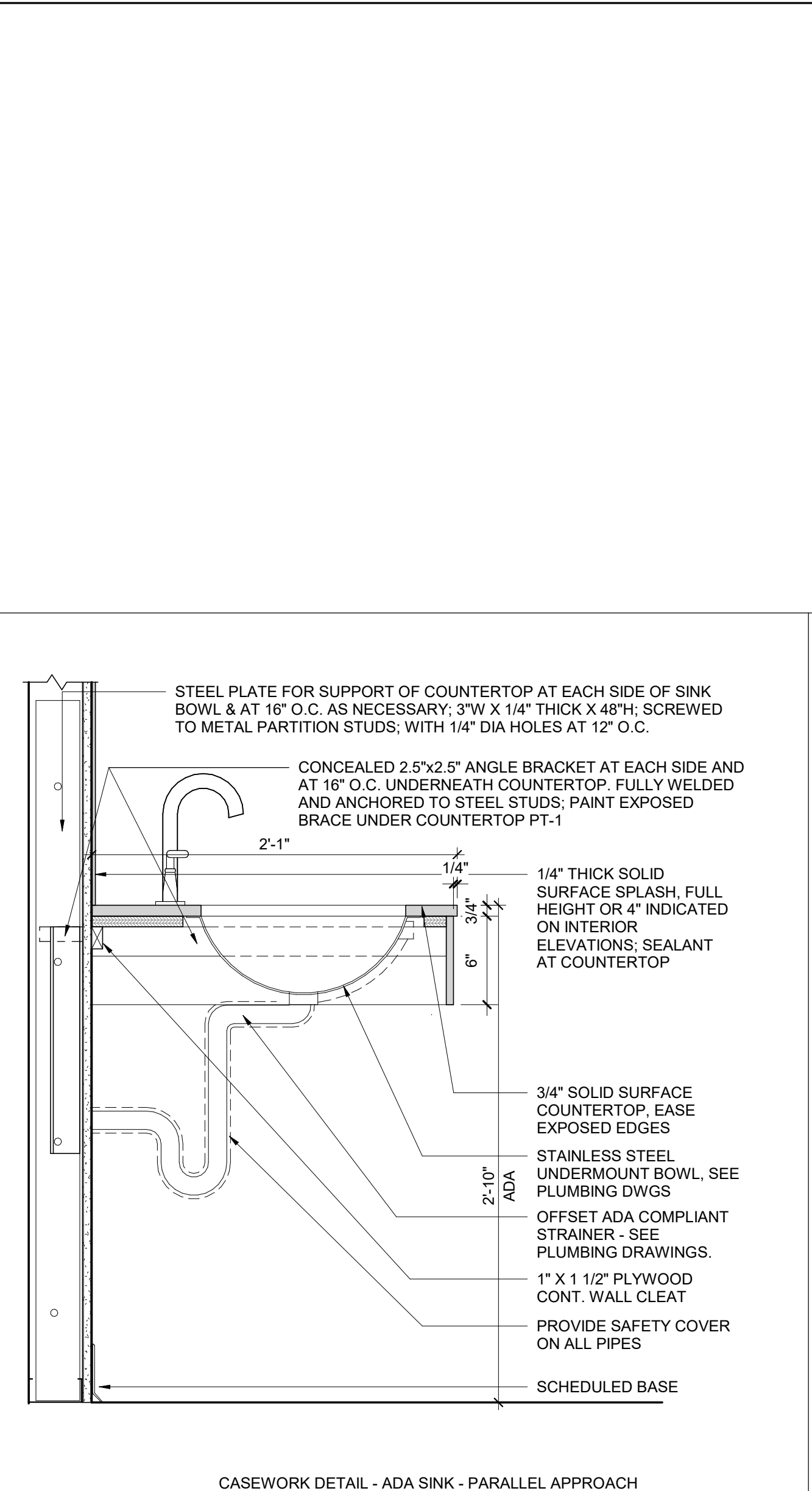
6 **UC-03**
AI-679 1 1/2" = 1'-0"



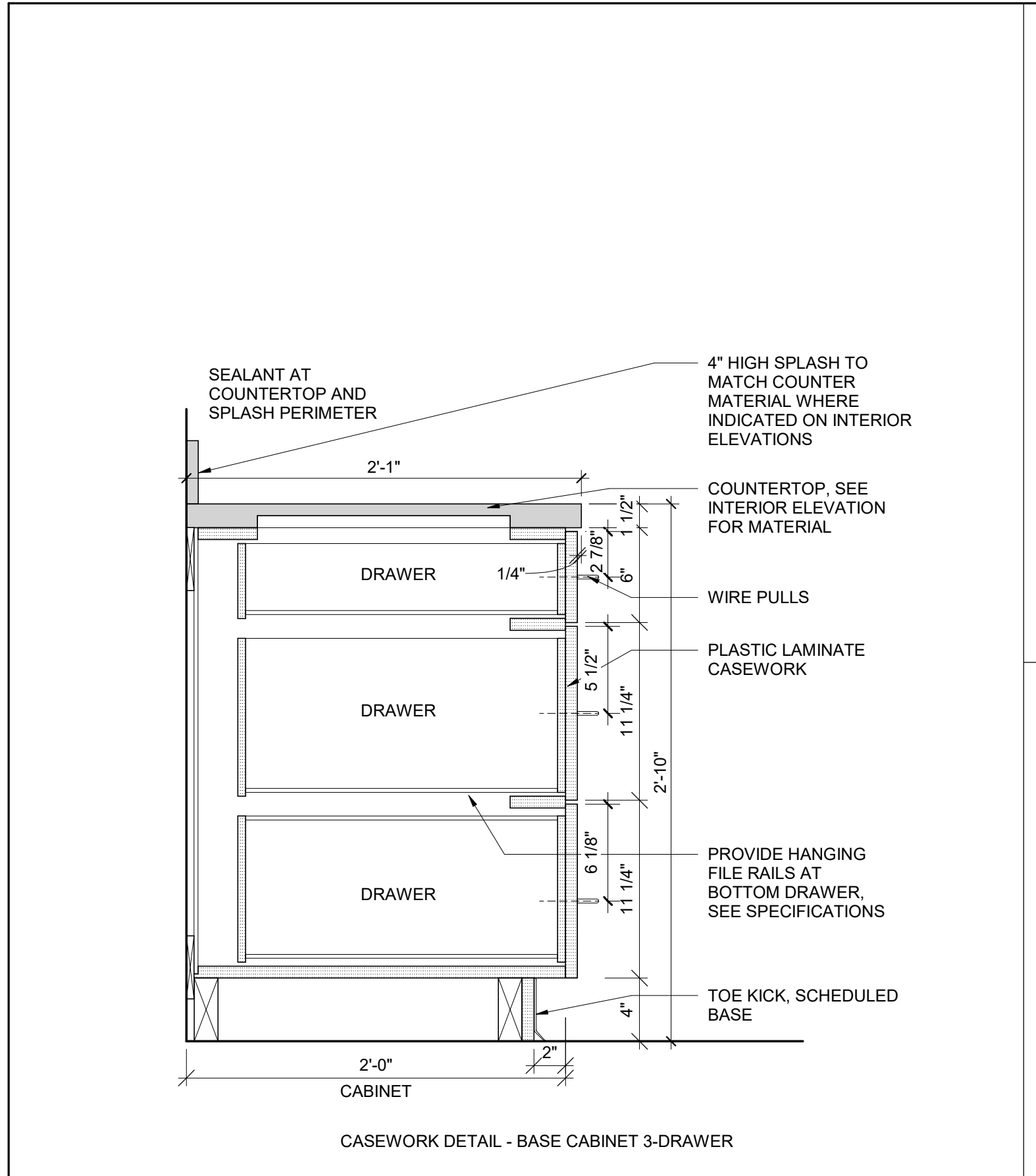
7 **UC-02**
AI-679 1 1/2" = 1'-0"



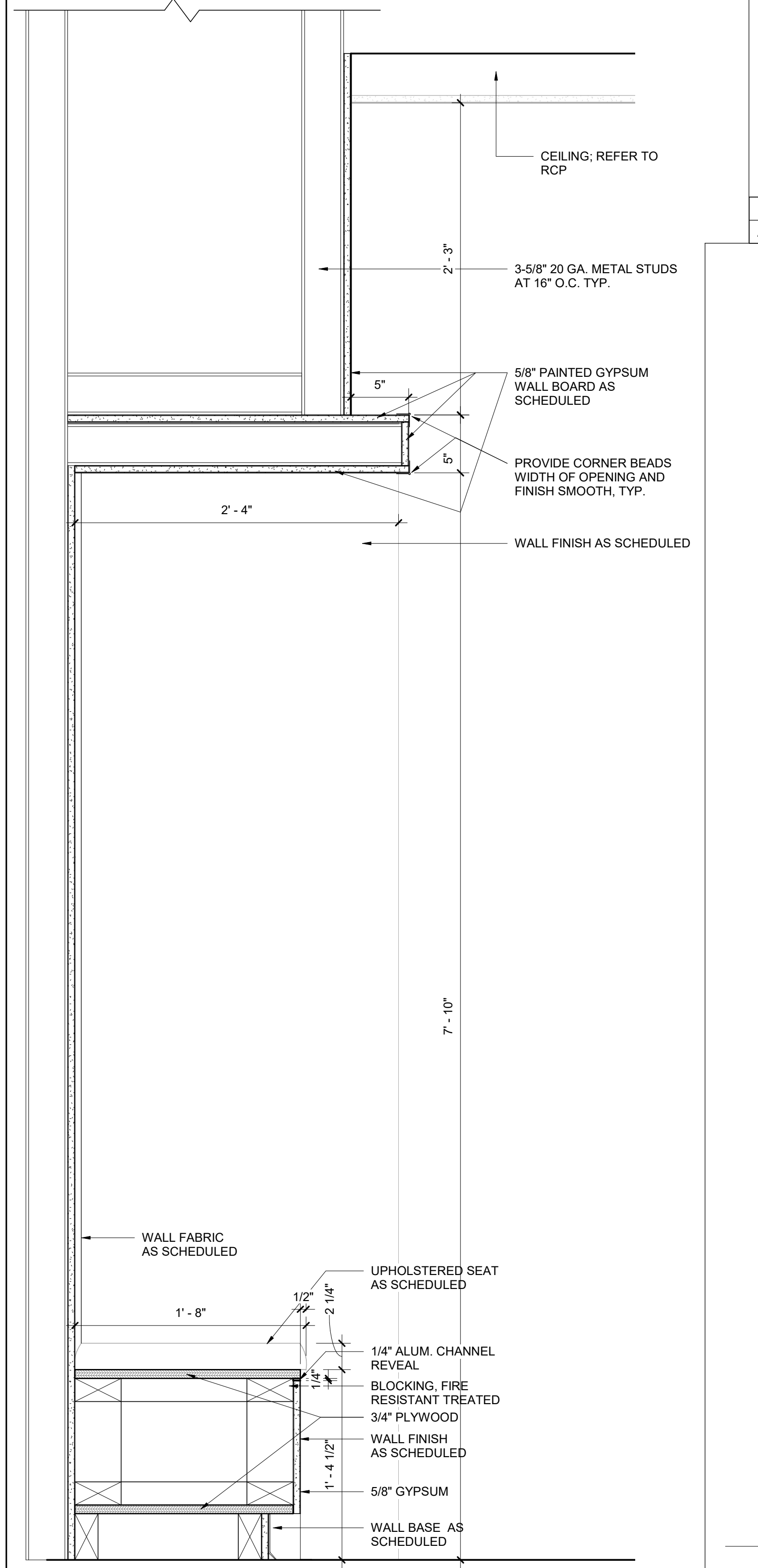
8 **BC-02**
AI-679 1 1/2" = 1'-0"



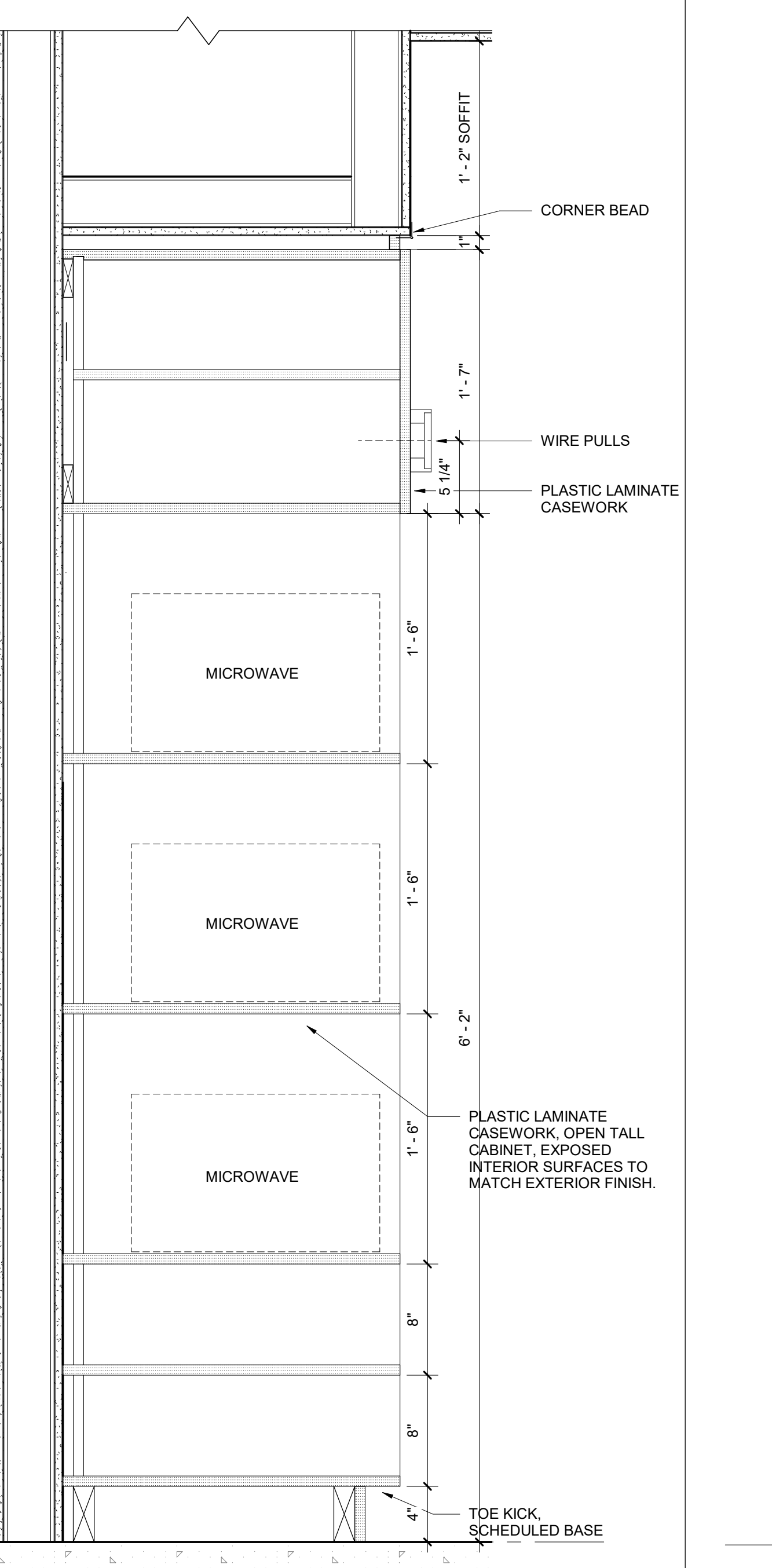
9 **BC-08**
AI-679 1 1/2" = 1'-0"



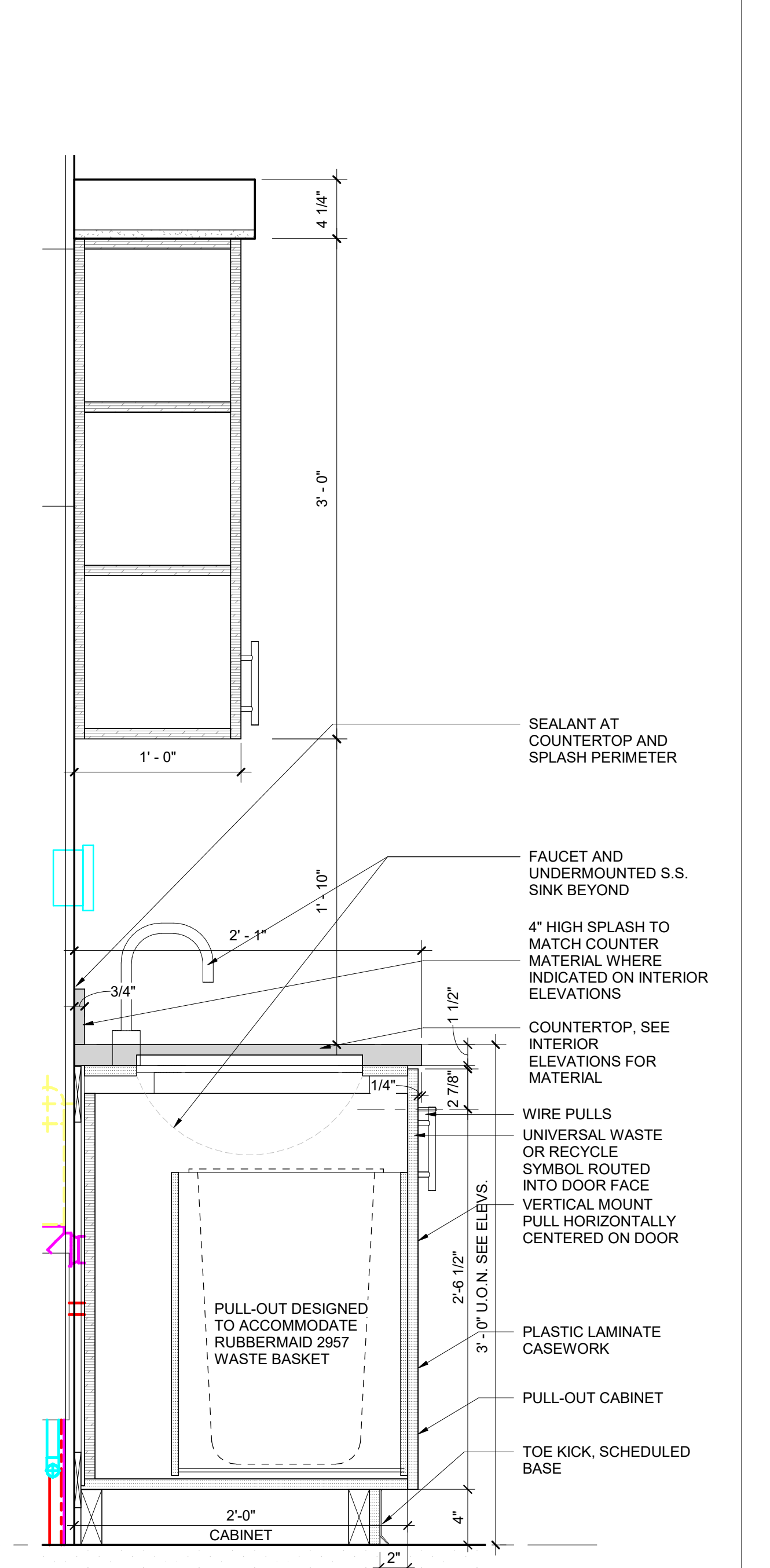
10 **BC-03**
AI-679 1 1/2" = 1'-0"



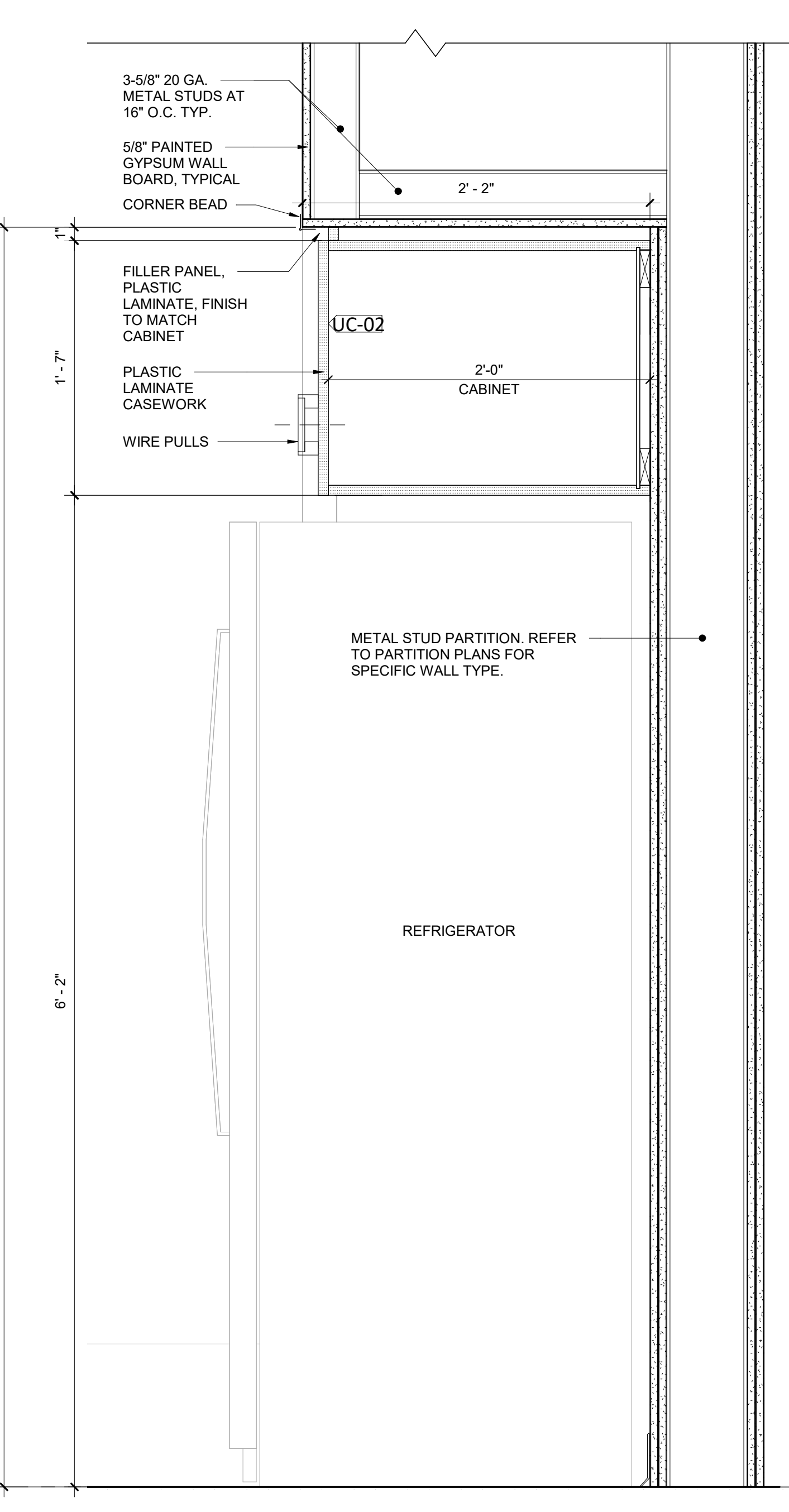
5 **SECTION - SEATING ALCOVE**
AI-679 1 1/2" = 1'-0"



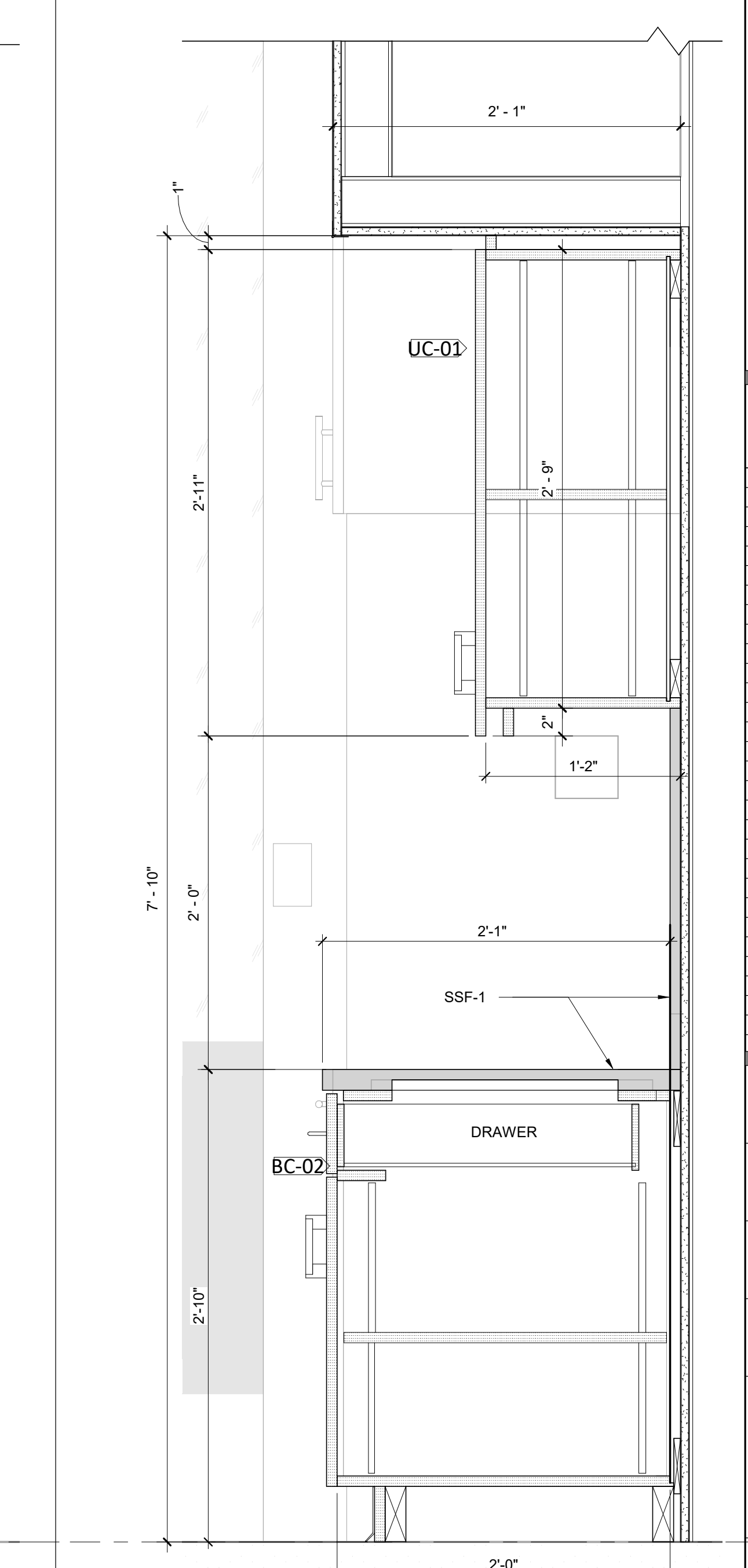
4 **DETAIL - TC**
AI-679 1 1/2" = 1'-0"



3 **DETAIL - UC-01 / BC-06**
AI-679 1 1/2" = 1'-0"



2 **REFRIGERATOR W/ UPPER CABINET**
AI-679 1 1/2" = 1'-0"



1 **DETAIL - CASEWORK ALCOVE**
AI-679 1 1/2" = 1'-0"

DOOR AND FRAME SCHEDULE - PHASE 2 / LEVEL 1

Table with columns: DOOR NUMBER, TO ROOM NUMBER, TO ROOM NAME, WIDTH, HEIGHT, DOOR TYPE, FINISH, GLAZING, FRAME TYPE, GLAZING, HEAD, DETAILS JAMB, RATING, CARD READER, HARDWARE SET, REMARKS. Lists door specifications for various rooms like CORRIDOR, FACULTY OFFICE, CONFERENCE ROOM, etc.

GENERAL NOTES - DOOR SCHEDULE

- A. REFER TO DRAWING AI-724 FINISH LEGEND FOR GLAZING TYPES
B. REFER TO DRAWING AI-724 FINISH LEGEND FOR DOOR AND FRAME FINISHES
C. REFER TO DRAWING AI-722 FOR DOOR AND FRAME ELEVATIONS
D. REFER TO SPECIFICATIONS 087105 & 102215 FOR DOOR HARDWARE SETS

DOOR SCHEDULE REMARKS LEGEND PHASE 2

- 1 EXISTING DOOR
2 WOOD SLIDING DOOR DIMENSIONS OVERLAP FRAMED OPENING, HM FRAME SIZE TO BE COORDINATED WITH DOOR HARDWARE
3 5'-4" CLEAR CORRIDOR DIMENSION
4 VERIFY DOOR DIMENSIONS BASED ON EXISTING ROUGH OPENING.
5 CARD READER BOTH SIDES OF DOOR
6 CARD READER BOTH SIDES OF DOOR, DELAYED EGRESS WITH LOCAL ALARM, BIOMETRIC EYE SCANNER
7 CARD READER BOTH SIDES OF DOOR, DELAYED EGRESS WITH LOCAL ALARM
8 PREPARE DOOR FOR FUTURE CARD READER
9 INTEGRATED TOTAL DOOR SYSTEM; DOORS TO BE ON HOLD OPENS - BOTH LEAFS HELD OPEN AT 90 DEGREES
10 GLASS SLIDING DOOR
11 GLASS SWING DOOR
12 PREPARE DOOR FOR FUTURE CARD READER AND FUTURE AUTOMATIC OPERATOR
13 ALL EXISTING DOOR OPENING DIMENSIONS TO BE FIELD VERIFIED.
14 PAINT DOOR FRAME TO MATCH ADJACENT WALL COLOR, PT-6
15 OVERHEAD COILING FIRE RATED DOOR.
16 FIRE RATED GLASS DOOR AND SIDE-LITE SYSTEM - TGP OR EQUAL.
17 UPDATE DOOR HARDWARE TO EXISTING PHASE 1 INSTALLED DOOR AND FRAME
18 CASPED OPENING
19 36" DIAMETER REVOLVING DOOR (DARK ROOM)

ABBREVIATIONS

Table with columns: AL, CA, F, FFR, FRP, GL, HM, MFR, NTL, N, OC, OG, PT, SS, ST, TF, WD. Lists abbreviations for materials like ALUMINUM, CLEAR ANODIZED, FLUSH, FULL GLASS, etc.



UNIVERSITY OF KENTUCKY
760 Press Avenue, Lexington, KY

CONSTRUCT RESEARCH BUILDING (FIT-UP TWO WET LABS)

UK Project Number 2538.0

ISSUANCES

Table with columns: No., Description, Date. Lists issuance records for DD ISSUANCE - NIH, CD ISSUANCE - NIH, BID & PERMIT - NIH.

ROOM FINISH SCHEDULE - PHASE 2 / LEVEL ONE

Table with columns: NUMBER, NAME, FLOOR, BASE, WALLS, CEILING, NOTES. Lists finish specifications for rooms like FACULTY OFFICE, POST DOC/GRAD/TECH, OFFICE, etc.

Approval form with fields: Drawn By, Author, Checked By, Checker, Client Number, Project Number, and a professional seal for Daniel J. Battocchia.

DRAWING TITLE
DOOR AND ROOM FINISH SCHEDULE LEVEL ONE

SHEET NO. AI-721A

ISSUANCES

No.	Description	Date
1	PHASE 2 DD 100%	08/15/18
2	CD 100% REVIEW	10/15/18
3	ISSUE FOR BID & PERMIT	11/15/18
4	P2 - ASI #002	05/06/19
5	DD ISSUANCE - NIH	02/05/20
6	CD ISSUANCE - NIH	04/14/20
7	BID & PERMIT - NIH	05/22/20

Drawn By
Author
Checked By
Checker
Client Number
514
Project Number
5350

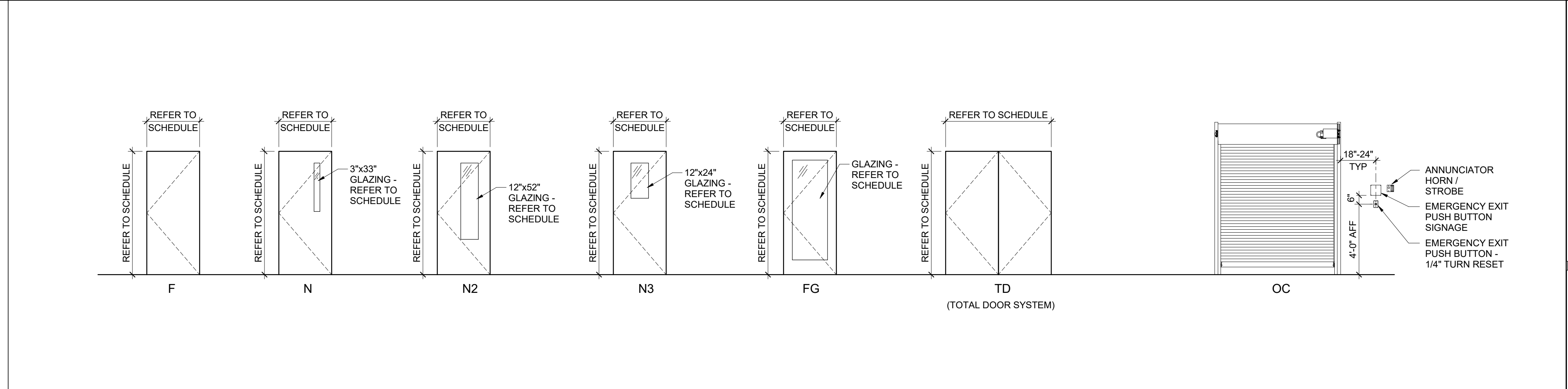
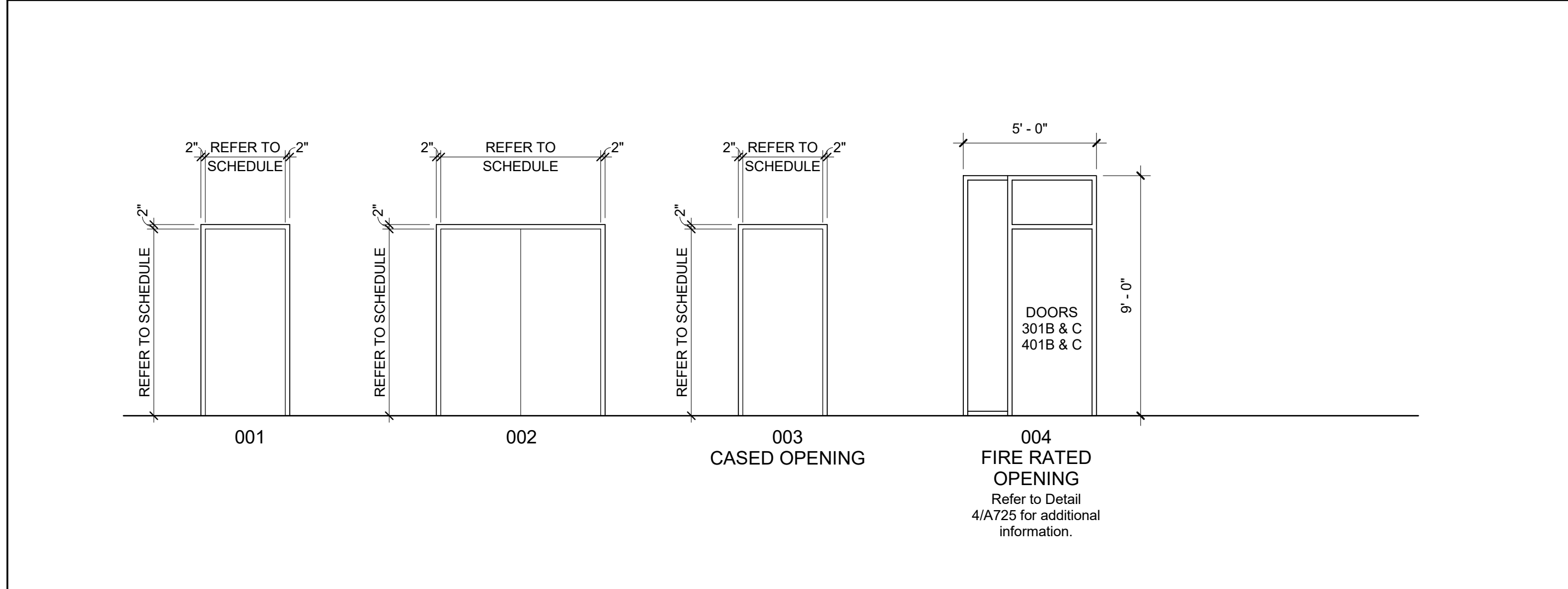
DRAWING TITLE

**DOOR AND FRAME
DETAILS**

SHEET NO.

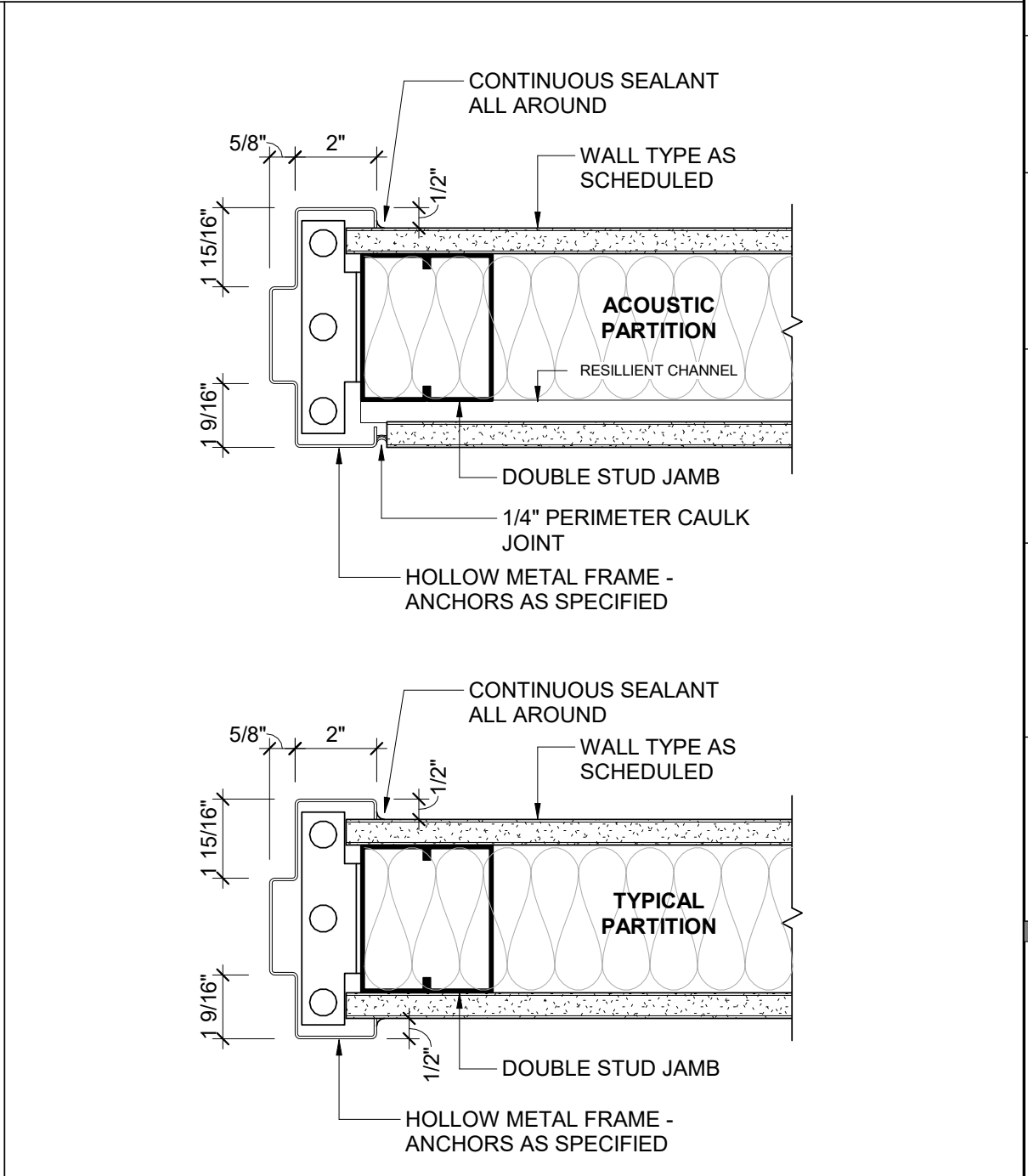
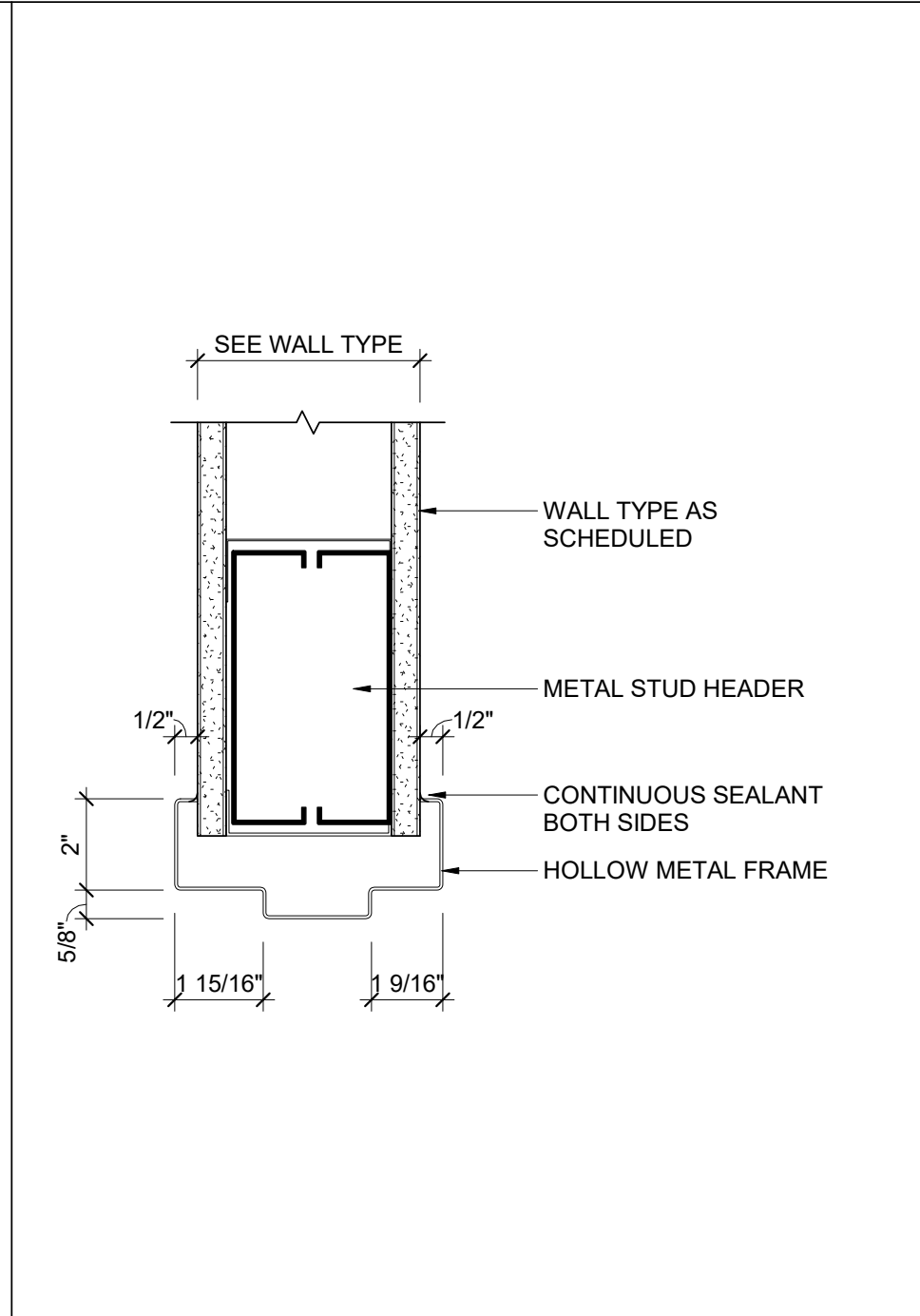
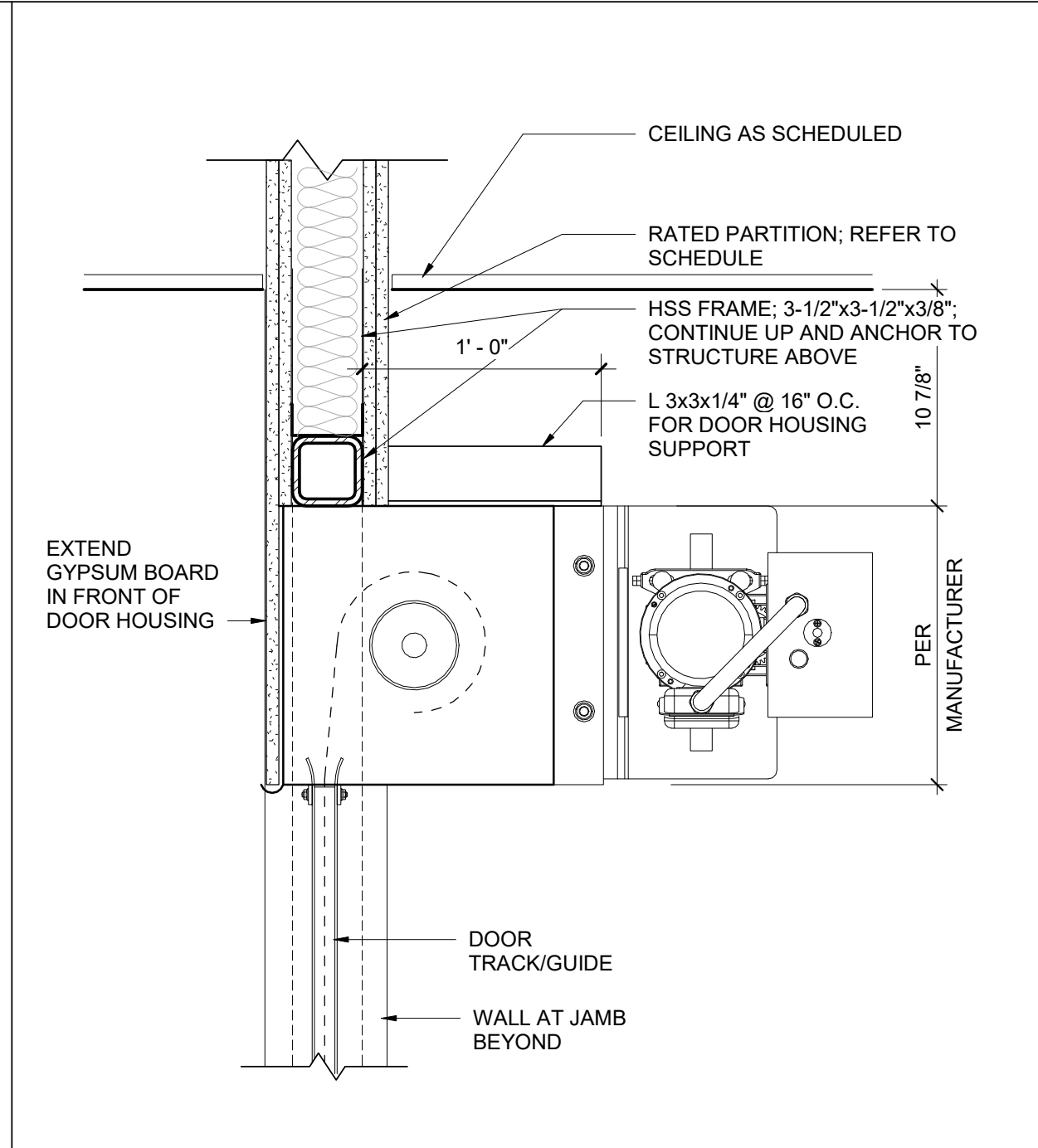
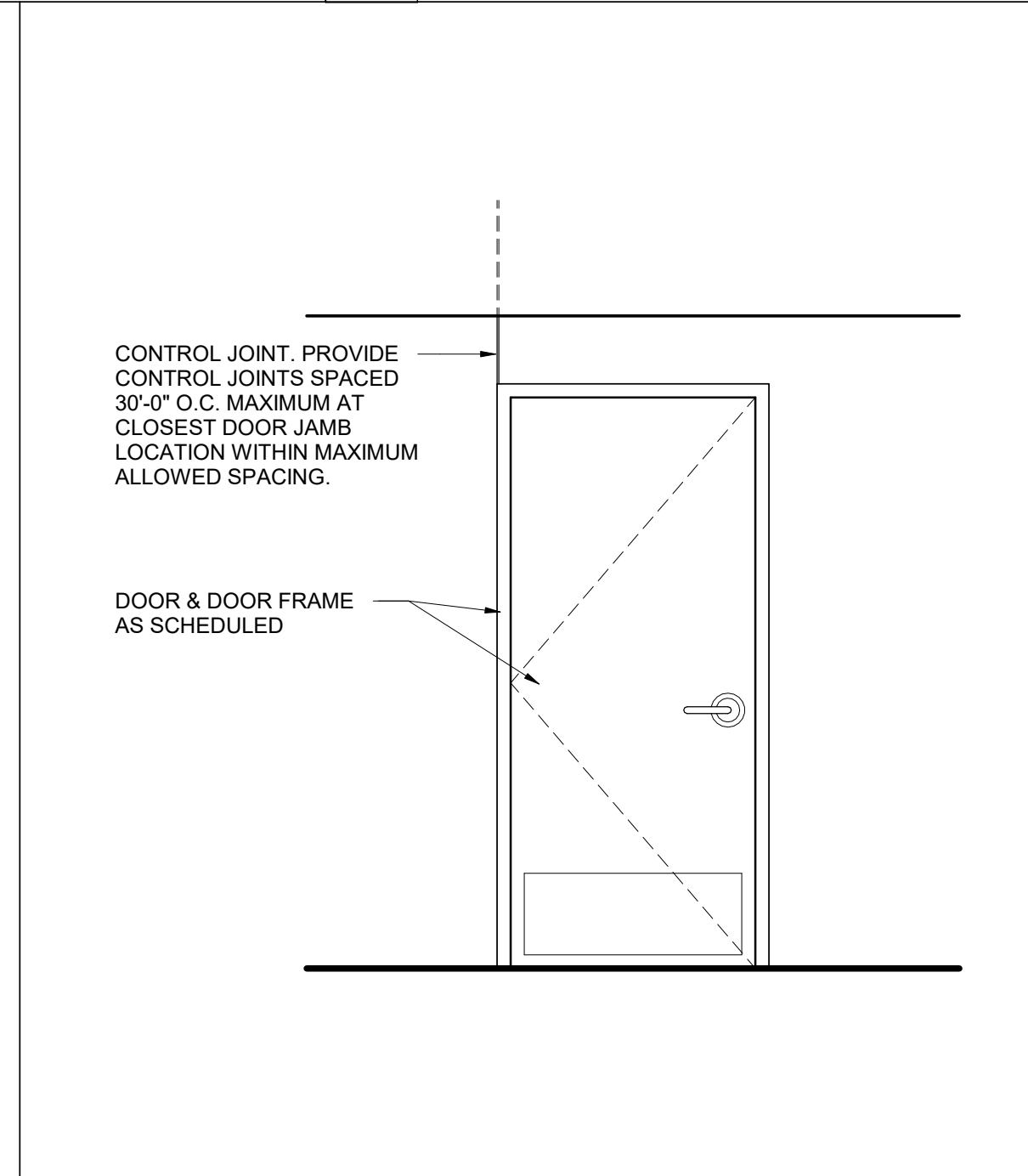
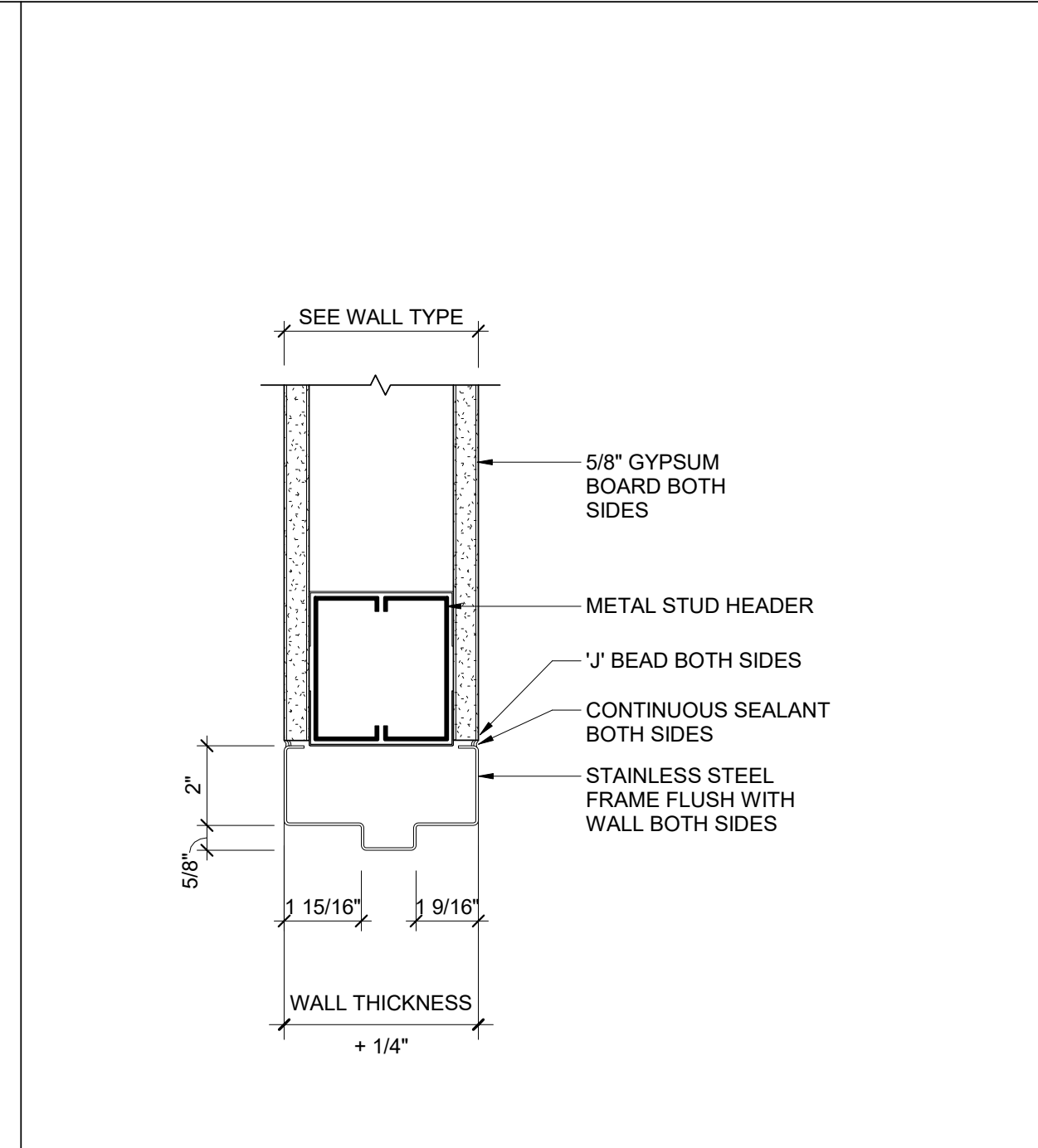
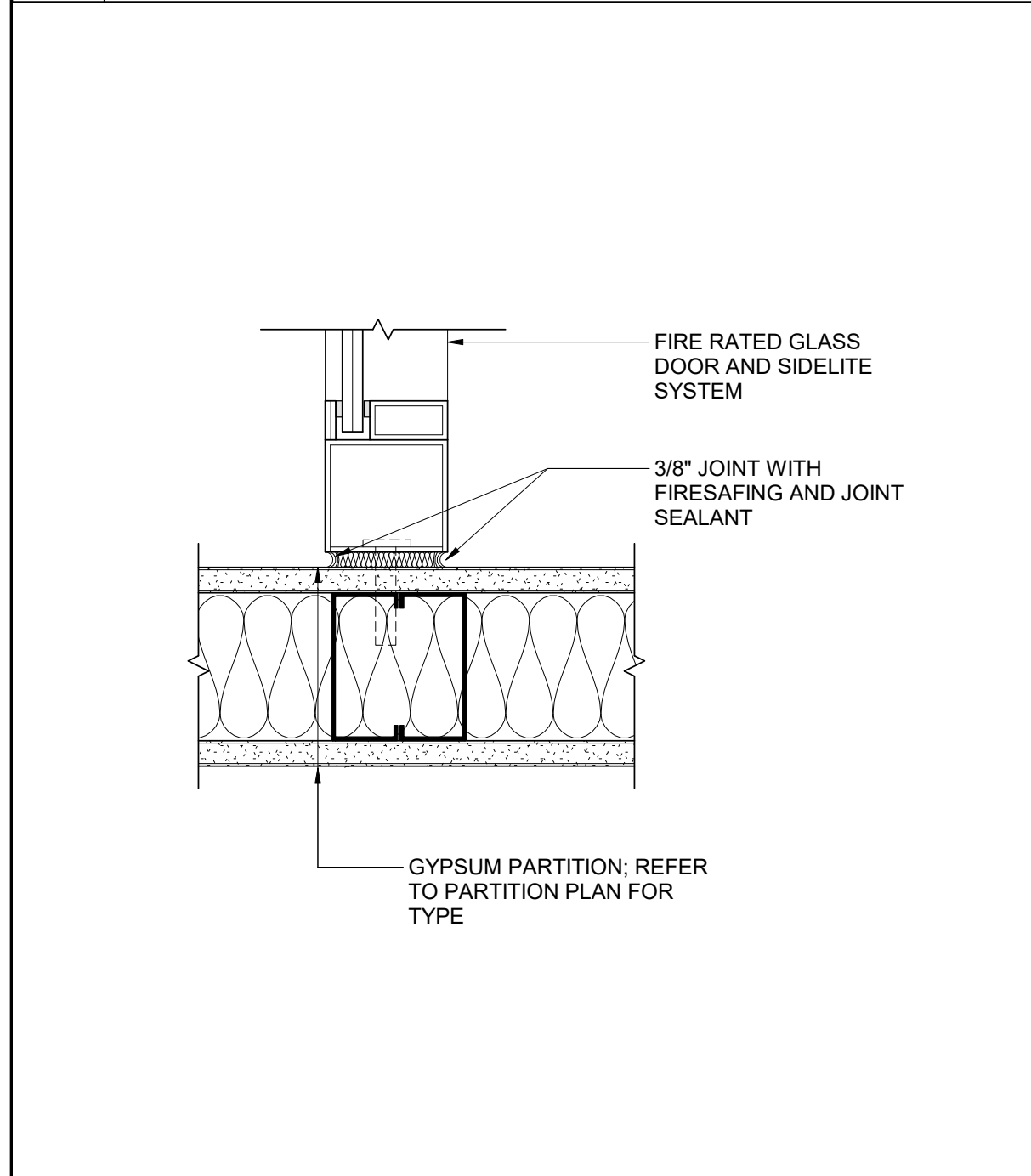
AI-722

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14 **DOOR FRAME ELEVATIONS**
AI-722 1/4" = 1'-0"

20 **DOOR ELEVATIONS**
AI-722 1/4" = 1'-0"



16 **DOOR / SITELINE JAMB - FIRE RATED**
AI-722 3" = 1'-0"

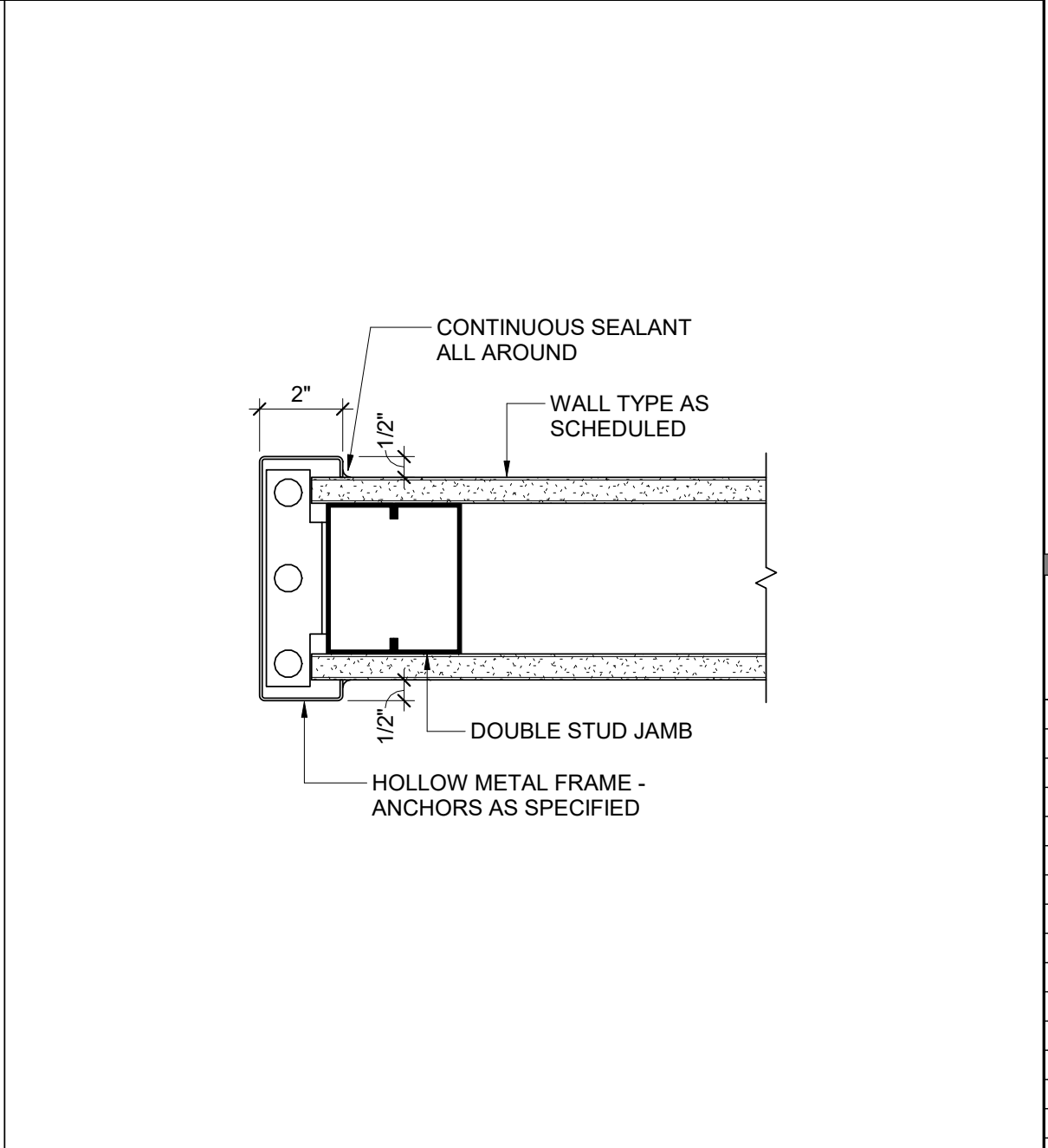
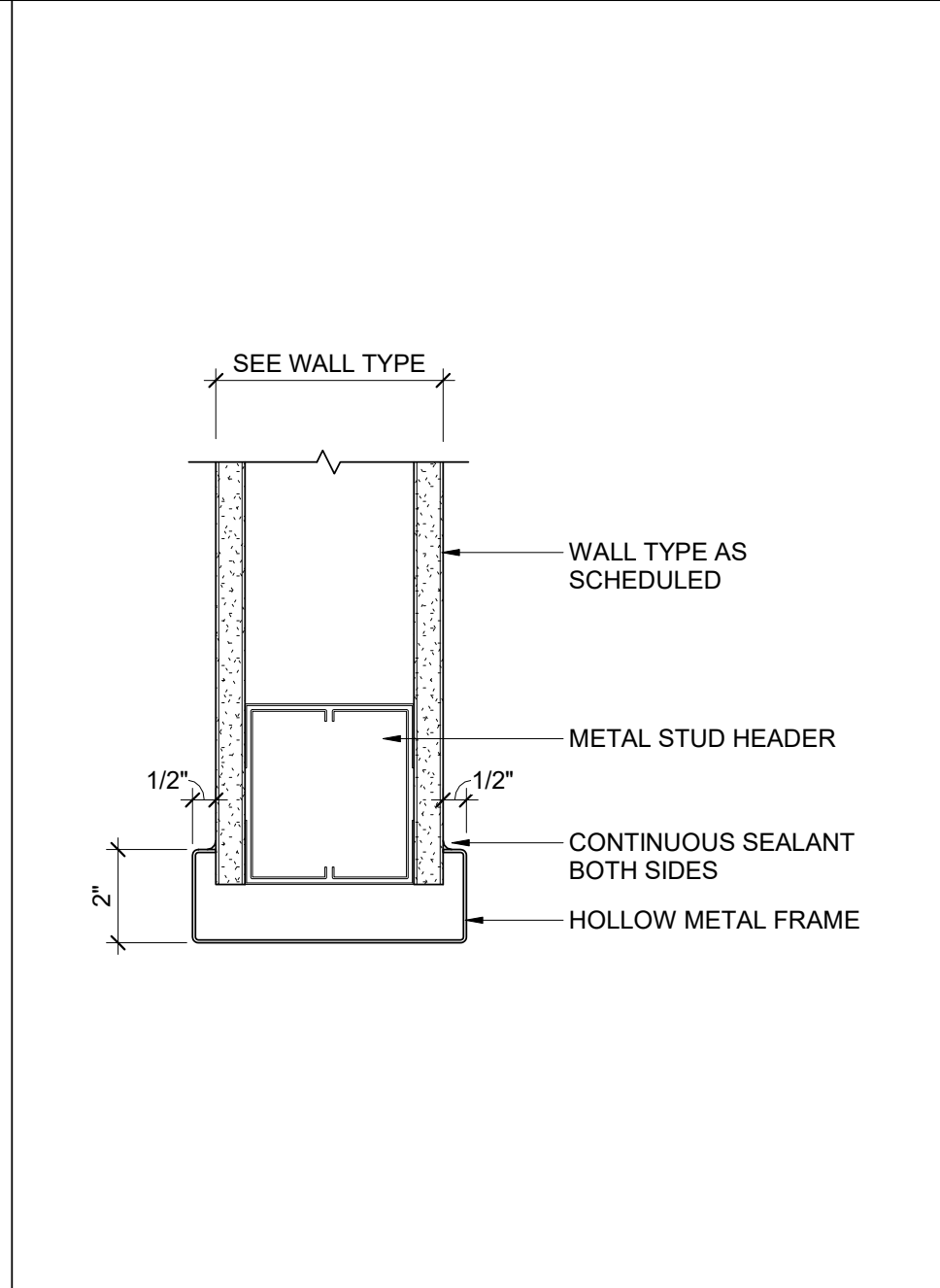
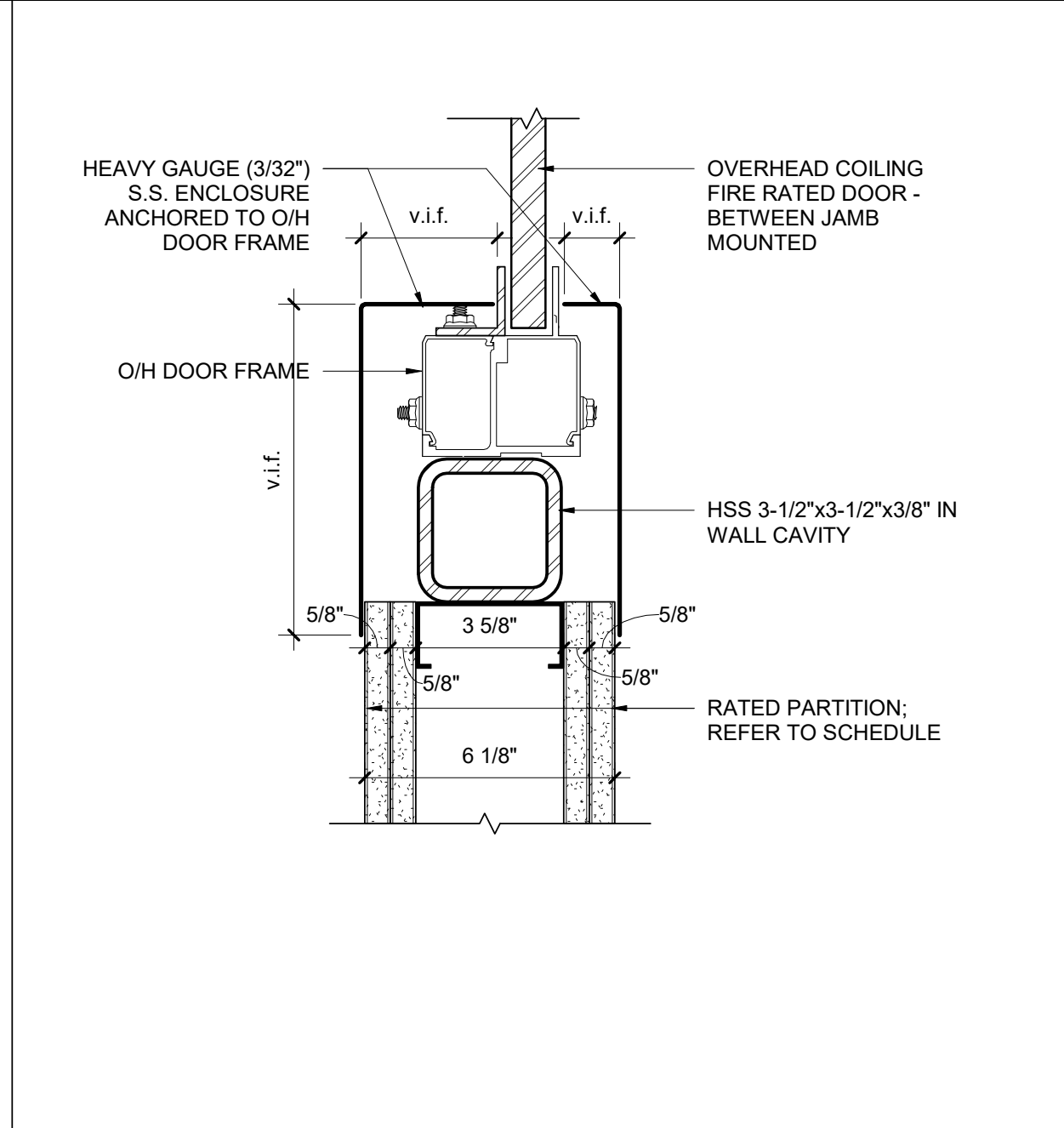
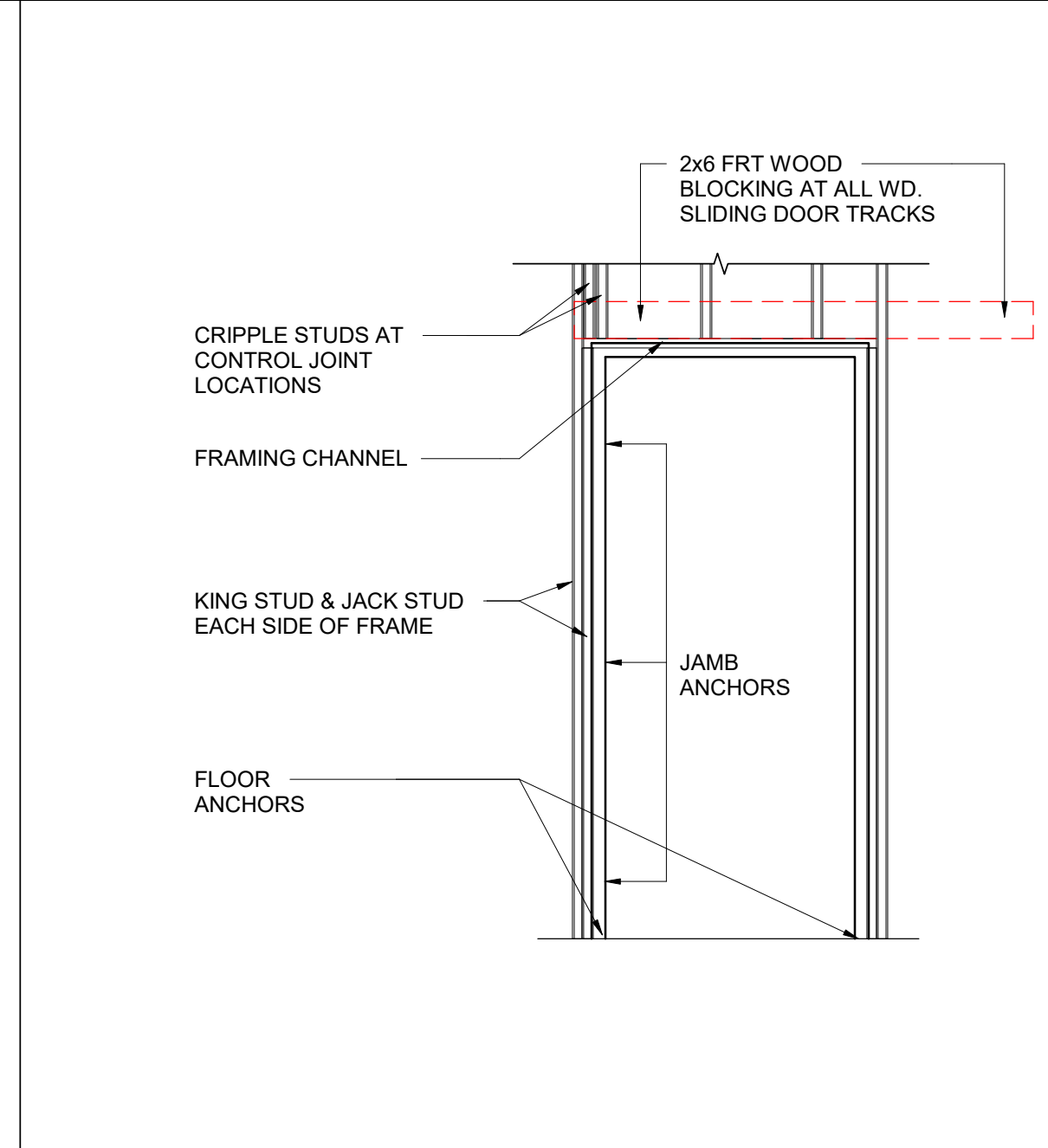
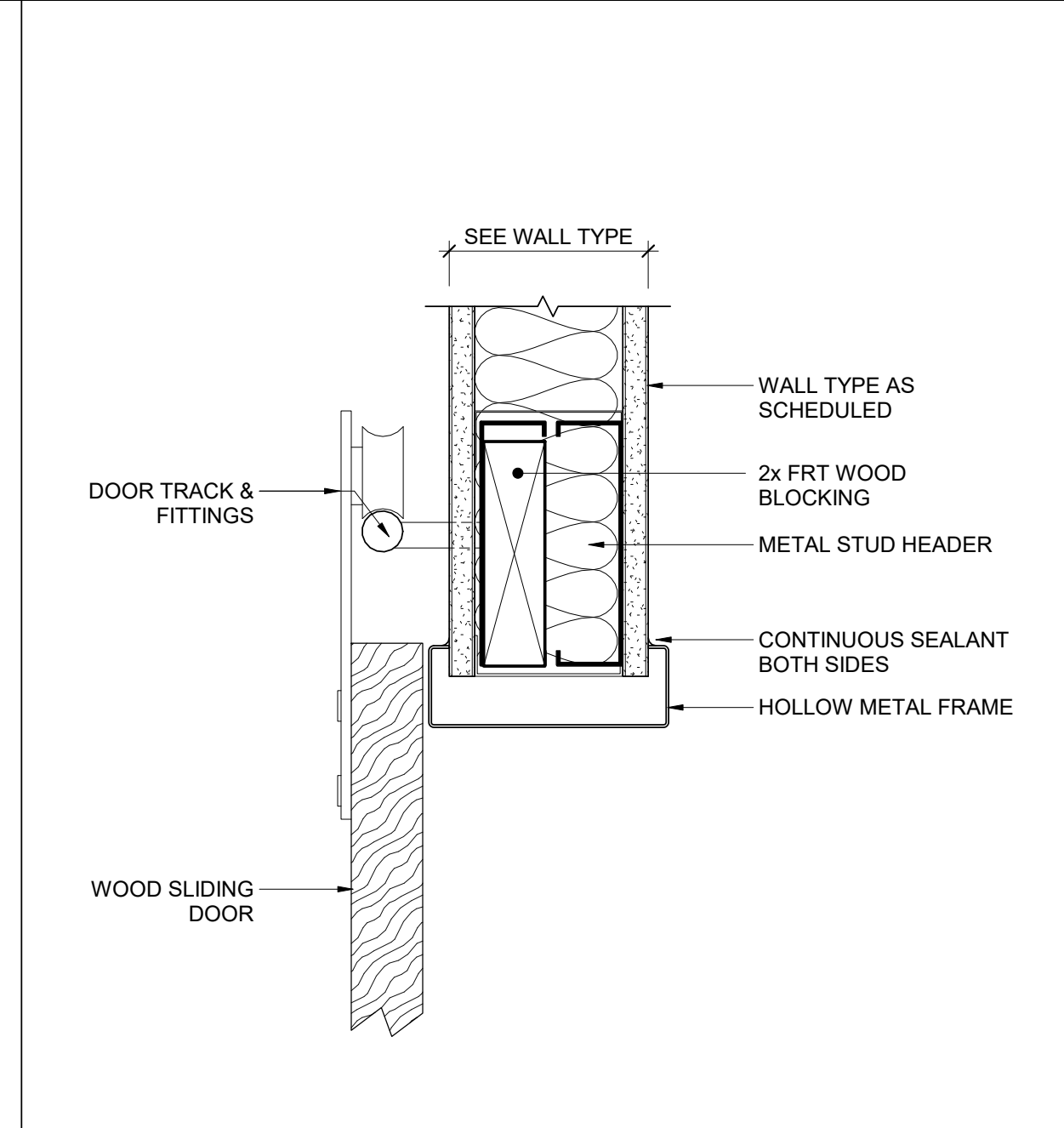
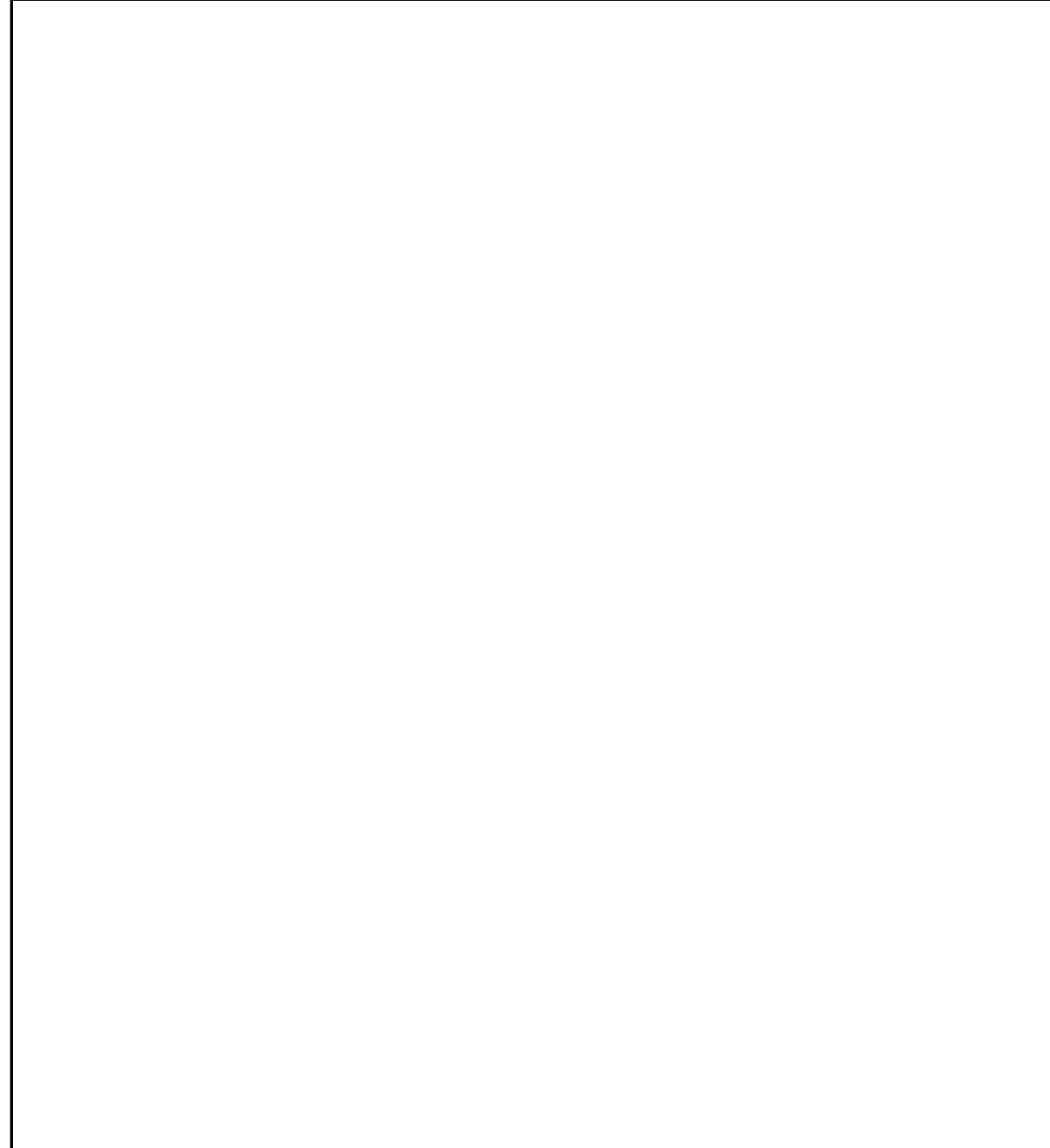
13 **HEAD DETAIL - VIVARIUM**
AI-722 3" = 1'-0"

10 **TYPICAL C.J. ALIGNED TO DOOR**
AI-722 1/2" = 1'-0"

7 **DOOR HEAD - O/H COILING; FIRE RATED**
AI-722 1 1/2" = 1'-0"

4 **HEAD DETAIL**
AI-722 3" = 1'-0"

1 **JAMB DETAIL**
AI-722 3" = 1'-0"



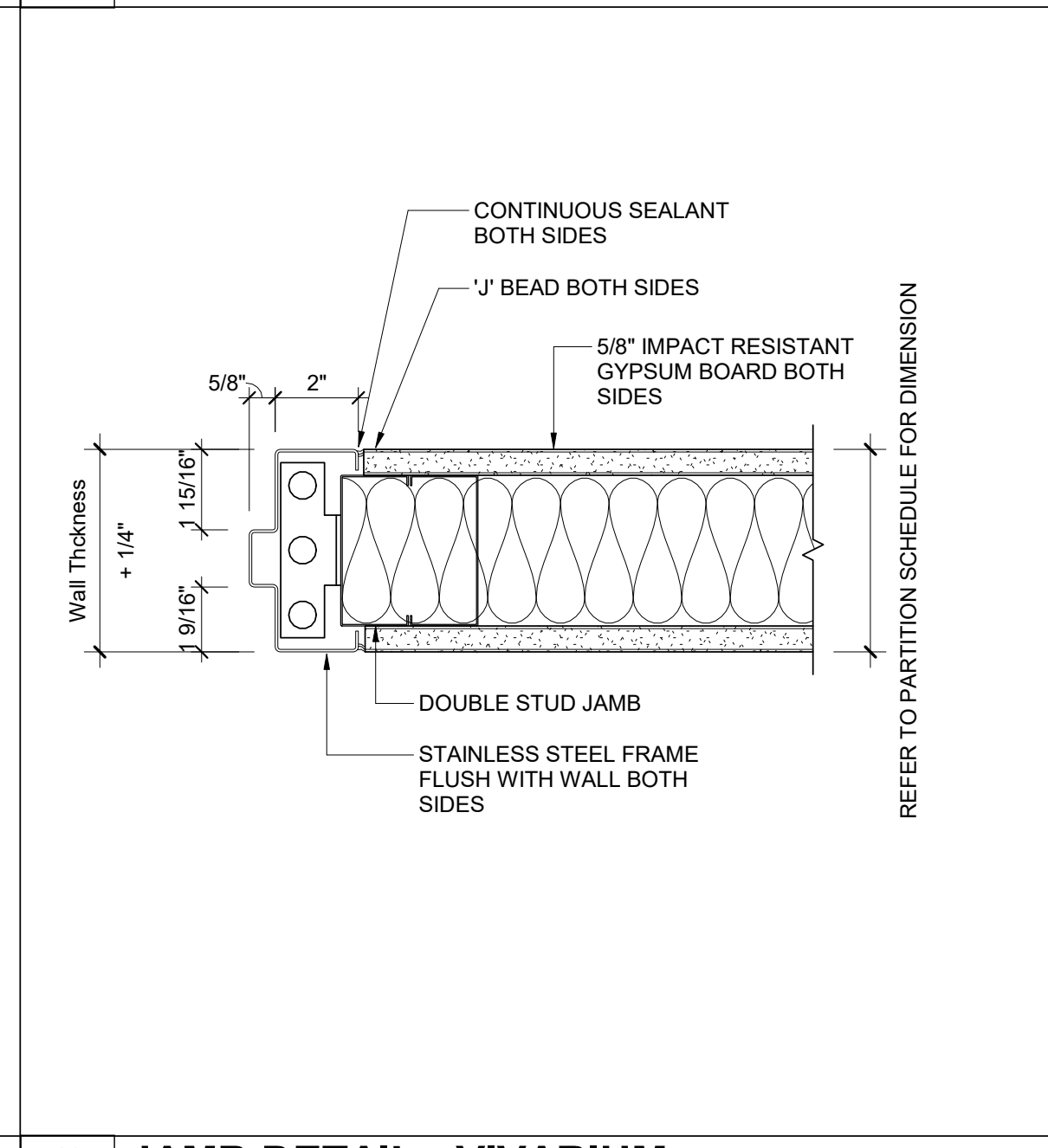
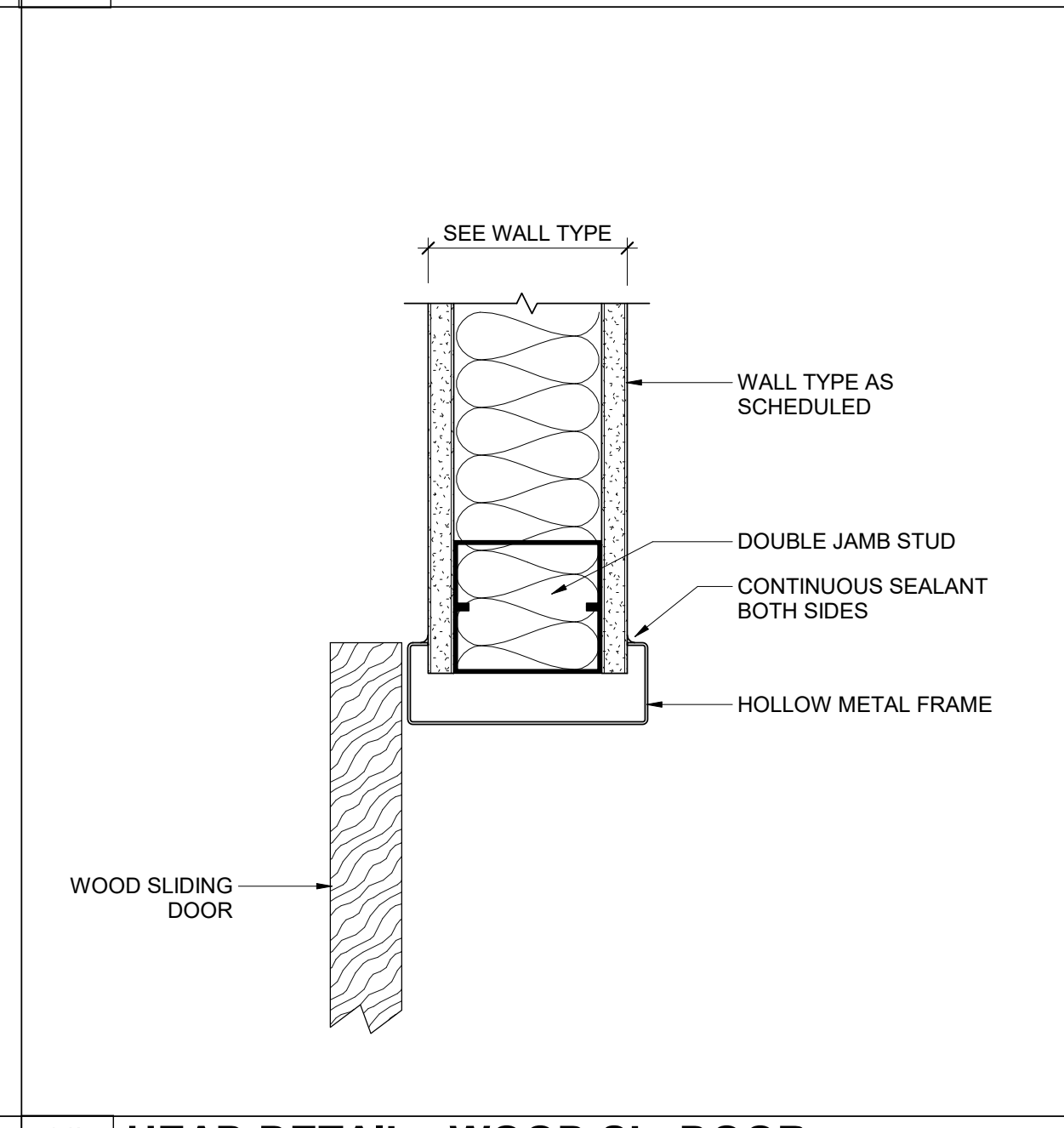
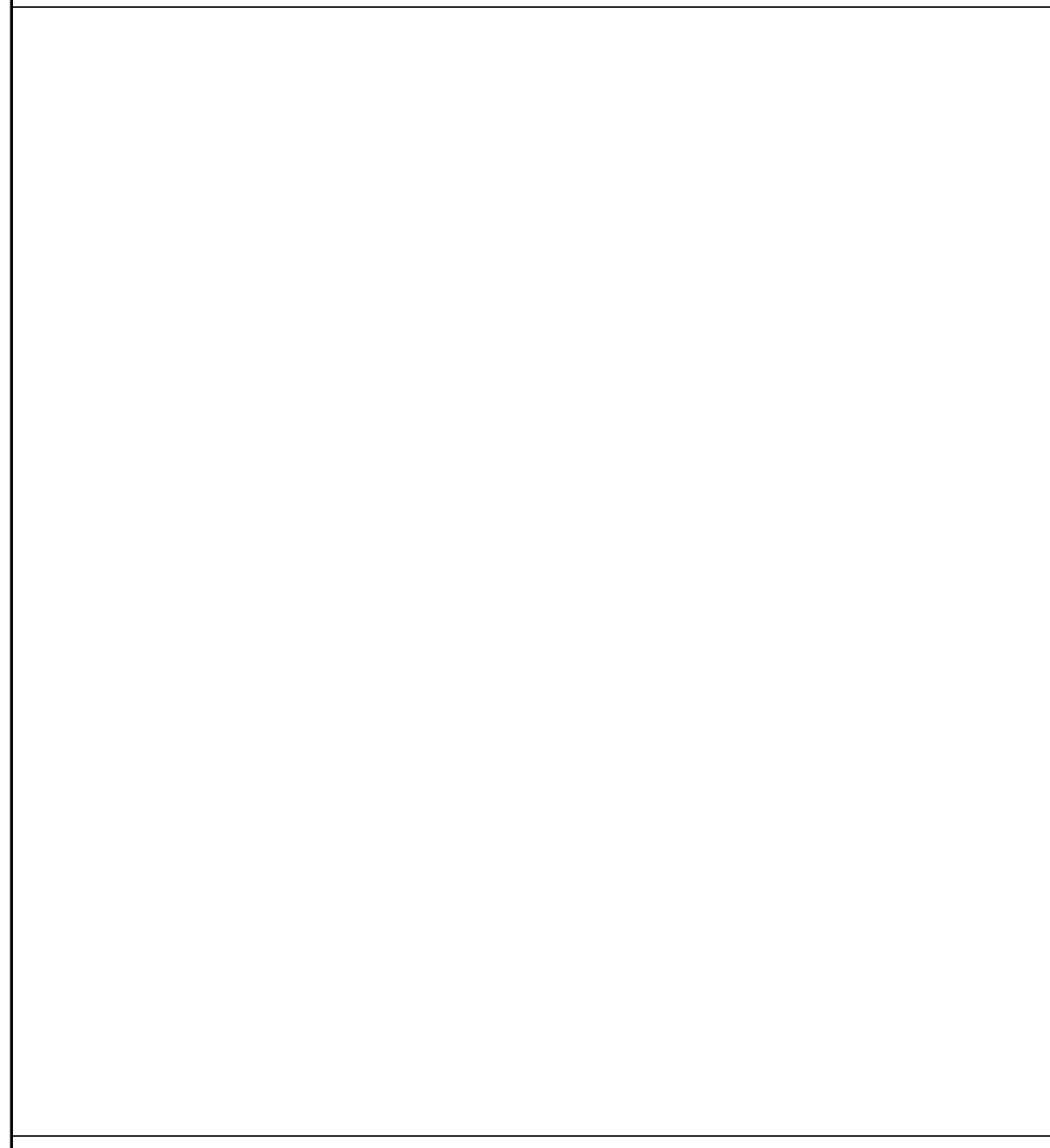
14a **HEAD DETAIL - WOOD SL. DOOR**
AI-722 3" = 1'-0"

11 **TYPICAL DOOR OPENING FRAMING**
AI-722 1/2" = 1'-0"

8 **DOOR JAMB - O/H COILING**
AI-722 3" = 1'-0"

5 **HEAD DETAIL - CASSED OPENING**
AI-722 3" = 1'-0"

2 **JAMB DETAIL - CASSED OPENING**
AI-722 3" = 1'-0"



9 **HEAD DETAIL**
AI-722 3" = 1'-0"

14b **HEAD DETAIL - WOOD SL. DOOR**
AI-722 3" = 1'-0"

12 **JAMB DETAIL - VIVARIUM**
AI-722 3" = 1'-0"

FLOOR FINISHES				WALL FINISHES				GLAZING TYPES				MISCELLANEOUS			
KEY	MATERIAL	SPECIFICATION	SALES & TESTING DATA	KEY	MATERIAL	SPECIFICATION	SALES & TESTING DATA	KEY	MATERIAL	SPECIFICATION	SALES & TESTING DATA	KEY	MATERIAL	SPECIFICATION	SALES & TESTING DATA
CPT-52	CARPET TILE	INTERFACE SILVER LININGS COLOR: CUSTOM; 264276-008 SIZE: 25CM x 1M	Susan Margraf 513-200-4734 susan.margraf@interface.com	MP-1	1/8" ALUMINUM PLATE	1/8" ALUMINUM PLATE PANELS. FINISH TO MATCH EXTERIOR ALUMINUM PLATE PANELS		GL-2	SAFETY GLAZING	1/4" TEMPERED GLAZING		SL-1 (DLAR SHOWERS)	SHOWER CURTAIN	COVOC CORPORATION HEAVY DUTY VINYL SHOWER CURTAIN W x H: 66" x 84" COLOR: SELECTED FROM MFR STANDARD COLORS STYLE: SOLID (NO MESH)	INFO@COVOC.COM (800) 725-3266
CS-1	SEALED CONCRETE	V.O.C. COMPLIANT, WATER-BASED, NON-YELLOWING ACRYLIC SEALER		PT-1	INTERIOR PAINT	BEHR COLOR: FROST 57U	Jeffrey Madigan 857-201-9402 JMADIGAN@BEHRBPAINT.COM	GL-3	SAFETY GLAZING	1/2" TEMPERED GLAZING		BD-1	WHITEBOARD	POLYVISION CORPORATION SERIES 110	John Crowther 770-933-1495 jcrowther@polyvision.com
CS-2	POLISHED CONCRETE	TBD		PT-4	EPOXY PAINT	SIKA CORPORATION DESCOGLAS R/ 307W COLOR TO BE SELECTED FROM MANUFACTURER STANDARD COLORS SEAMLESS COVE TRANSITION WHERE INSTALLED WITH RES-1 FLOORING	Jim Hendley Sika Corporation 513-638-0519	GL-4	SAFETY GLAZING	1/4" RED LAMINATED GLAZING		BD-4	TACKBOARD	FORBO L910, 6MM THICKNESS. CUSTOM COLOR TO MATCH KENTUCKY BLUE PANTONE. INSTALL FLOOR TO CEILING IN 4' WIDTH WITH ALUMINUM EDGE TRIM. CLEAR ANODIZED AT THE LONG EDGES. NO VISIBLE SCREWS	Mike Bell Atlas Companies
CTF-1	CERAMIC TILE	ANATOLIA TILE AND STONE NOTION PORCELEIN TILE COLOR: CARBON 68-314 SIZE: TILE 6" X 24" AND 12" X 24" REFER TO SHEET 22/AI-672 FOR PATTERN DETAIL GROUT: TEC: 941 RAVEN	Marsha McCauley 513-759-9325 marsha.mccauley@daltille.com	PT-5	INTERIOR PAINT	NOT USED		GL-5	SAFETY GLAZING	1/4" PRIVACY WITH RED LAMINATED GLAZING		FILM-1	DECORATIVE FILM	3M FASARA CIELO PROVIDE MOCKUP	1-866-499-8857
CTF-2	CERAMIC TILE	RBC TILE & STONE BACK BAY AV249 COLOR: 249 SIZE: TILE 6" X 24" RECTIFIED; RUNNING BOND - HORIZONTAL GROUT: LATICRETE; #22 MIDNIGHT BLACK	Eike Bangert 763-559-5531 ebangert@bctile.com	PT-6	INTERIOR PAINT	BENJAMIN MOORE COLOR: TROUT GRAY 2124-20	Chris Drigans 751-410-5176 chris.drigans@benjaminmoore.com	GL-7	SAFETY GLAZING	1/4" LAMINATED GLAZING		FILM-2	OPAQUE FILM	3M FASARA COLOR: OPAQUE WHITE PROVIDE MOCKUP	1-866-499-8857
CTF-3	CERAMIC TILE*	SHADES BY CROSSVILLE SEMI-POLISH TILE COLOR: INK AV249 SIZE: TILE 12" X 24" REFER TO 1/AI-724 FOR PATTERN DETAIL GROUT: TEC: 941 RAVEN	www.crossvilleinc.com	PT-9	INTERIOR PAINT	TBD		PLAM-1	PLASTIC LAMINATE	WILSONART COLOR: 4880-38 CARBON MESH	Donna Ariapad 800-736-3624 donnaariapad@flagginc.com	FILM-3	2" OPAQUE FILM BAND (TO BE APPLIED TO ALL GLASS WALL AND DOOR SYSTEMS; REFER TO AI-726)	3M FASARA COLOR: OPAQUE WHITE PROVIDE MOCKUP	1-866-499-8857
CTF-4	CERAMIC TILE	SHADES BY CROSSVILLE SEMI-POLISH TILE COLOR: INK AV249 SIZE: TILE 3" X 1" MOSAIC GROUT: TEC: 341 RAVEN SHOWER FLOOR ONLY	www.crossvilleinc.com	PT-10	INTERIOR PAINT	TBD		PLAM-2	PLASTIC LAMINATE	ABET LAMINATI COLOR: 437 SEI		FAB-3	ALCOVE SEAT FABRIC	ARCCOM RODEO AC-89966 COLOR: CORNFLOWER #27	
RES-1	RESINOUS FLOORING	SIKAFLOOR MERFLEX WATERPROOFING BROADCAST SYSTEM COLOR: RAL 7042 TRAFFIC GRAY SEAMLESS COVE TRANSITION AT ALL WALLS AND FLOOR PENETRATIONS	Jim Hendley 513-638-0519 Sika Corporation	PT-11	INTERIOR PAINT	TBD		PLAM-3	PLASTIC LAMINATE	PIONITE COLOR: SB040 BLUEBERRY HILL		FAB-4	ALCOVE SEAT FABRIC	DESIGNTEX SORANO 3403-505 COLOR: ALOE	
RES-2	RESINOUS FLOORING	URETHANE CEMENT FLOORING SYSTEM COLORS: TBD BY ARCHITECT SEAMLESS COVE TRANSITION WHERE INSTALLED WITH PT-4 WALL FINISH	Jim Hendley 513-638-0519 Sika Corporation	CTW-1	CERAMIC WALL TILE	TILE x DESIGN SELF EVOLVE COLOR: MATTE WHITE; SIZE: 2" X 16" GROUT: LATICRETE; #18 SAUTERNE	info@bleedesign.com 763-551-9900	PLAM-4	PLASTIC LAMINATE	PIONITE COLOR: SB027-SD SUMMER VACATION		FWC-3	ALCOVE WALL FABRIC	DESIGNTEX WANNABE COLOR: BLUE JAY	
RSF-1	RESILIENT SHEET FLOORING	NORA SYSTEMS, INC NORAPLAN DEGREE COLOR: 6329 SI PAUL	Brandon Lyons 502-780-1356 brandon.lyons@nora.com	CTW-2	CERAMIC WALL TILE	RBC TILE & STONE BACK BAY AV249 COLOR: 249 SIZE: TILE 6" X 24" RECTIFIED; RUNNING BOND - VERTICAL GROUT: LATICRETE; #22 MIDNIGHT BLACK	Eike Bangert 763-559-5531 ebangert@bctile.com	PLAM-5	PLASTIC LAMINATE	ARBORITE COLOR: S-583-CA FERN		FWC-4	ALCOVE WALL FABRIC	DESIGNTEX WANNABE COLOR: SEAWEED	
RSF-2	RESILIENT SHEET FLOORING	NORA SYSTEMS, INC NORAPLAN DEGREE COLOR: 6329 DENVER	Brandon Lyons 502-780-1356 brandon.lyons@nora.com	SSW-1	SOLID SURFACE WALL PANELING	SWAN SS-80-3 SWANSTONE BATH WALL KIT COLOR: WHITE (010)	Joe Grote 731-438-0535 jgrote@praxiscompanies.com	SSF-1 & SSF-2	SOLID SURFACE COUNTERTOP	DUPONT CORIAN QUARTZ COLOR: CLOUD WHITE	www.dupont.com	CTA-1	TRANSITION	Schluter DILEX-EHK, satin anodized aluminum	
RSF-3	RESILIENT SHEET FLOORING	NORA SYSTEMS, INC NORAPLAN DEGREE COLOR: 6330 JUNEAU	Brandon Lyons 502-780-1356 brandon.lyons@nora.com	WD-1	WOOD WALL PANELING	DOOGE VENEERS Q70 HICKORY CW QUARTER CUT	doogevener.com 616-698-6450	SSF-3	SOLID SURFACE COUNTERTOP WITH INTEGRAL SINK	DUPONT CORIAN QUARTZ COLOR: BLACK QUASAR SINK - BOLD 690 GLACIER WHITE	www.dupont.com	CTA-2	TRANSITION	Schluter QUADEC, satin anodized aluminum	
VCT	VINYL COMPOSITION TILE FLOORING	ARMSTRONG MIGRATIONS BBT COLOR: PLATINUM GRAY T3501						SSF-4	SOLID SURFACE WINDOW SILL	DUPONT CORIAN SOLID SURFACE COLOR: DESIGNER WHITE	www.dupont.com	CTA-3	TRANSITION	Schluter RENO-RAMP-K, satin anodized aluminum REFER TO 18/AI-672 FOR DETAIL	
TZO-1 (ELEVATORS)	TERRAZZO ELEVATOR FLOORING	T&M SUPPLY TEROXY RESIN SYSTEM 3/8" EPOXY TERRAZZO 100% DOMESTIC MARBLE AGGREGATE AGGREGATE SIZE: 15, 25 INSTALL PER NTMA TECH BULLETIN #T-22	T&M Supply Terrazzo Division 847-947-7300												

BASE FINISHES				CEILINGS				WALL PROTECTION			
KEY	MATERIAL	SPECIFICATION	SALES & TESTING DATA	KEY	MATERIAL	SPECIFICATION	SALES & TESTING DATA	KEY	MATERIAL	SPECIFICATION	SALES & TESTING DATA
RB-1	RUBBER BASE	MANNINGTON BURKE BASE 660 ROCKY	Ivan Stoler 718-526-7890 WWW.ALLSTATERRUBBER.COM	GYP-1	5/8" GYPSUM BOARD	5/8" GYPSUM BOARD ON SUSPENSION SYSTEM		BPR-1	ALUMINUM RAIL WALL GUARD	ALUMINUM SANI-RAIL ASR-2	Frank McDonald frankmcdonald@chartermi.net
RB-4	RUBBER BASE W/ LUMINOUS STRIP	TARKETT JOHNSONITE SAFE-T-FIRST PDCN-XX-4" x 120" COLOR: 40 BLACK	Scott Stertmeyer 440-708-5759 scott.stertmeyer@tarkett.com	GYP-6	5/8" GYPSUM BOARD	5/8" GYPSUM BOARD ON LGMF SUPPORT SYSTEM		FBS	FRP BACK SPLASH	MARLITE STANDARD FRP FINISH: SMOOTH COLOR: S1000 WHITE	Frank McDonald frankmcdonald@chartermi.net
RB-5	RUBBER BASE	MANNINGTON COLOR: 130 PAISLEY BURKE BASE		ACT-1	SUSPENDED ACOUSTICAL CEILING TILE	2x2 ARMSTRONG OPTIMA SQUARE REGULAR ON 15/16" GRID, WHITE NRC: 0.95	VL Monty Gillespie 513-309-1495 vlgillespie@armstrongceilings.com	CG-1	STAINLESS STEEL CORNER GUARD	LIFE SCIENCE PRODUCTS, INC.	Frank McDonald frankmcdonald@chartermi.net
RB-6	RUBBER BASE	MANNINGTON BURKE BASE COLOR: 505 TRUE BLUE		ACT-2	SUSPENDED ACOUSTICAL CEILING TILE	2x4 ARMSTRONG OPTIMA SQUARE REGULAR ON 15/16" GRID, WHITE NRC: 0.95	VL Monty Gillespie 513-309-1495 vlgillespie@armstrongceilings.com	CG-2	RUBBER CORNER GUARD	TARKETT JOHNSONITE SAFE-T-FIRST PVBGN-XX-4" COLOR: 50 WHITE	Scott Stertmeyer 440-708-5759 scott.stertmeyer@tarkett.com
RB-7	RUBBER BASE	MANNINGTON BURKE BASE COLOR: 283 EVERGREEN		ACT-4	SUSPENDED ACOUSTICAL CEILING TILE	2x4 ARMSTRONG OPTIMA SQUARE LAY-IN ON 15/16" GRID, WHITE NRC: 0.95	VL Monty Gillespie 513-309-1495 vlgillespie@armstrongceilings.com				
CTB	CERAMIC TILE BASE	RBC TILE TBD REFER TO 4/AI-469 FOR DETAIL		ACT-5	VIVARIUM CEILING SYSTEM	CEILING TILE: 2X2 POLYMER CORE 2 PANEL BY LSP CEILING GRID: LSP 'GRIDLOCK' CEILING SUSPENSION SYSTEM BY LSP PROVIDE HOLD DOWN CLIPS	Life Science Products, Inc. 1-800-698-9874 www.lspinc.com				
WB-1	WOOD BASE MOULDING	4" x 3/4" PRE-PRIMED POPLAR REFER TO 19/AI-672 FOR DETAIL									

STAIR TREADS			
KEY	MATERIAL	SPECIFICATION	SALES & TESTING DATA
STAIR-E	RUBBER	TARKETT JOHNSONITE SAFE-T-FIRST PVRH-XX-RD COLOR: 40 BLACK	Scott Stertmeyer 440-708-5759 scott.stertmeyer@tarkett.com

WINDOW TREATMENTS			
KEY	MATERIAL	SPECIFICATION	SALES & TESTING DATA
SH-1 (MANUAL SHADE)	ROLLER SHADES	MECHO SHADE, MECHO/5 EXTENDED BRACKET WITH CLOSURE PANEL AT SHADE & ADJACENT AREAS WITHOUT SHADE SHADE/CLOTH: SOHO COLLECTION, 1600 (3% OPEN) 1612 THOMPSON (CHARCOAL)	Jeanine Land 216-221-9755 jland@kma.bz
SH-1A (AUTOMATED SHADE)	ROLLER SHADES	MECHO SHADE ELECTRONI EXTENDED BRACKET WITH CLOSURE PANEL AT SHADE & ADJACENT AREAS WITHOUT SHADE SHADE/CLOTH: SOHO COLLECTION, 1600 (3% OPEN) 1612 THOMPSON (CHARCOAL)	Jeanine Land 216-221-9755 jland@kma.bz
CUR-1	BLACKOUT CURTAIN	BLACKOUT CURTAINS.COM BLACK/WHITE - ROB'N 70% POLYESTER / 30% COTTON WITH BLACKOUT TRACK AND HARDWARE	1.866.252.2568 blackoutcurtains.com



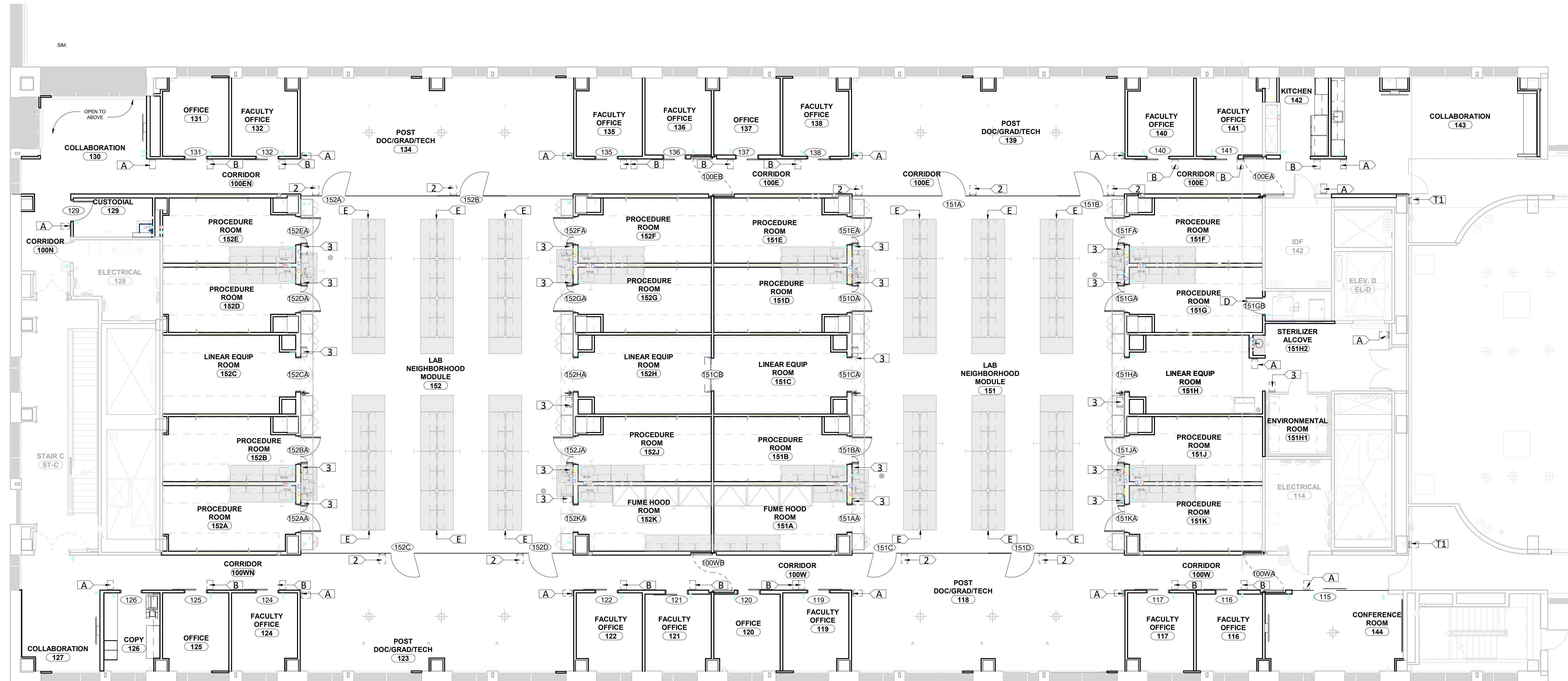
UNIVERSITY OF KENTUCKY
760 Press Avenue, Lexington, KY

CONSTRUCT RESEARCH BUILDING (FIT-UP TWO WET LABS)

UK Project Number 2538.0

No.	Description	Date
1	PHASE 2 DD 100%	08/15/18
2	CD 100% REVIEW	10/15/18
3	ISSUE FOR BID & PERMIT	11/15/18
4	P2 - PCO #001	04/17/19
5	P2 - PCO #013	06/24/19
6	P2 ASI 006	10/11/19
7	P2 - PCO #032 R1	10/23/19
8	DD ISSUANCE - NIH	02/05/20
9	CD ISSUANCE - NIH	04/14/20
10	BID & PERMIT - NIH	05/22/20

Drawn By _____
 Author
 Checked By _____
 Checker
 Client Number 514
 Project Number 5350
 DRAWING TITLE
 FINISH LEGEND
 SHEET NO. AI-724
 5/19/2020 11:54:42 AM



SIGNAGE PLAN GENERAL NOTES

- A. ALL EXISTING ROOM SIGNAGE IS TO BE REMOVED AND RETURNED TO THE OWNER.
- B. SIGN TYPES DESIGNATIONS COORDINATE WITH SIGN TYPES AS IDENTIFIED IN THE UNIVERSITY OF KENTUCKY DESIGN AND CONSTRUCTION STANDARDS AVAILABLE ONLINE.
- C. THE FONT TO BE COORDINATED WITH THE UNIVERSITY OF KENTUCKY SIGNAGE STANDARDS.
- D. FONT HEIGHTS ARE TO BE AS SHOWN IN THE UNIVERSITY OF KENTUCKY SIGNAGE STANDARDS.
- E. USE BRILLE GRADE SPECIFIED IN THE UNIVERSITY OF KENTUCKY SIGNAGE STANDARDS.
- F. DIRECTIONAL ARROWS, WHERE SHOWN, ARE TO CONFORM TO THE DIMENSIONS AND PROPORTIONS AS IDENTIFIED IN UNIVERSITY OF KENTUCKY SIGNAGE STANDARDS.
- G. TYPICAL MOUNTING HEIGHT IS TO BE 61" TO TOP OF SIGN FOR ALL SIGNS U.N.O.
- H. ROOM SIGNS ARE TO BE MOUNTED ON THE LATCH SIDE OF THE DOOR, U.N.O.
- I. PROVIDE A BACK PLATE AT ALL LOCATIONS WHERE ROOM SIGNAGE MOUNTING LOCATION AT THE LATCH SIDE OF THE DOOR IS ON GLASS.
- J. ROOM SIGNS SHOULD BE CENTER ALIGNED VERTICALLY WITH ROOM SCHEDULING DEVICES, U.N.O.
- K. ROOM SIGNS SHOULD BE CENTER ALIGNED VERTICALLY WITH CARD READER IN LOBBIES, U.N.O.
- L. REFER TO SIGNAGE SERIES PLANS FOR LOCATIONS OF DIRECTORIES IN LOBBIES AND CORRIDORS.
- M. ALL OPERATING ELEVATORS RECEIVE TYPE K AND Q SIGNS. REFER TO SIGNAGE SERIES PLANS FOR LOCATIONS WITHIN THE ELEVATOR OPENINGS.
- N. COORDINATE REMOVAL OR RELOCATION OF PREVIOUS PHASE SIGNS AS NEEDED (I.E. DOOR TAGS TO PREVIOUS SHELL SPACE).
- O. NEW SIGNAGE TO MATCH EXISTING SIGNAGE TYPES IN MATERIAL, FONT AND COLORS.
- P. SUBMIT SIGNAGE SHOP DRAWINGS AND SIGNAGE SAMPLES FOR APPROVAL.

CHAMPLIN ARCHITECTURE
 720 E Pete Rose Way, Suite 140
 Cincinnati, OH 45202
 T 513.241.4474 F 513.241.0081
 thinkchamplin.com
 THINK CREATE REALIZE

HGA

JACOBS Consultancy

AEI Affiliated Engineers

CMTA

MATERIAL TYPE, FONT AND COLORS

- FONT: AvenirNextLTPro-Regular
- TEXT COLOR: BLACK UNLESS OTHERWISE NOTED
- TYPE A** ROOM SIGN - #902 CHEMETAL ON 1/2" BLACK ACRYLIC, 1/8" X 3/8" ANODIZED BAR STOCK
- TYPE B** ROOM SIGN CUSTOM - #902 CHEMETAL ON 1/2" BLACK ACRYLIC, 1/16" NONGLARE ACRYLIC WINDOW 1/8" X 3/8" ANODIZED BAR STOCK
- TYPE C** RESTROOM - #902 CHEMETAL ON 1/2" BLACK ACRYLIC, 1/8" X 3/8" ANODIZED BAR STOCK
- TYPE D** DOOR TAGS - 1/16" ROWMARK #LM922-402 (BLACK/WHITE), FRONT ENGRAVED WHITE TEXT
- TYPE E** LAB BENCH TAGS - 1/16" ROWMARK #LM922-402 (BLACK/WHITE), FRONT ENGRAVED WHITE TEXT
- TYPE J** DIRECTIONAL - #902 CHEMETAL ON 1/2" PVC (PAINTED BLACK), DIGITALLY PRINTED TEXT
- TYPE K** EVAC PLAN (INSERT TYPE WITH CUSTOM EVAC PLAN PRINTED ON MYLAR TYPE MATERIAL) - #902 CHEMETAL ON 1/2" BLACK ACRYLIC, 1/8" X 3/8" ANODIZED BAR STOCK, 1/16" NONGLARE ACRYLIC WINDOW WITH #902 CHEMETAL VENEERS, 1/8" BLACK ACRYLIC BACK PLATE
- TYPE L** FLAG MOUNT DOUBLE SIDED - #902 CHEMETAL ON 1/8" BLACK ACRYLIC, DIGITALLY PRINTED, 1/8" ACRYLIC CORE, CUSTOM BRACKET
- TYPE Q** IN CASE OF FIRE - #902 CHEMETAL ON 1/2" BLACK ACRYLIC, 1/8" X 3/8" ANODIZED BAR STOCK
- TYPE T** LAB SIGN PLAQUE - 1/16" NONGLARE ACRYLIC WINDOW SCREEN PRINTED SILVER, 1/8" ACRYLIC BACK PLATE PAINTED SILVER
- TYPE V** LAB ROOM SIGN - #902 CHEMETAL ON 1/2" BLACK ACRYLIC, 1/8" X 3/8" ANODIZED BAR STOCK
- TYPE W** LAB DOOR STICKER - WHITE OPAQUE VINYL WITH ADHESIVE TO ATTACH TO GLASS LAB DOORS

UK
HEALTHY KENTUCKY RESEARCH BUILDING

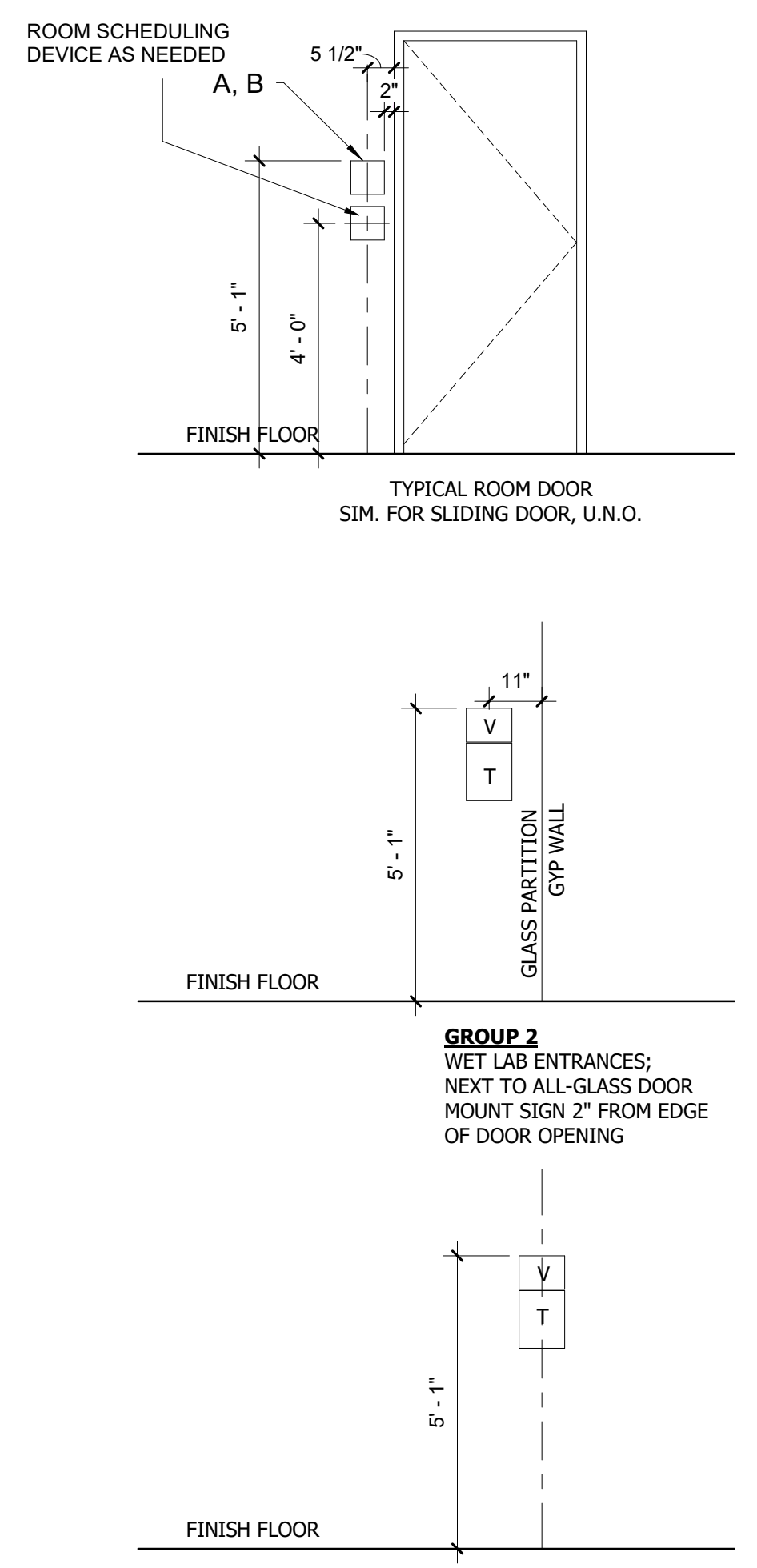
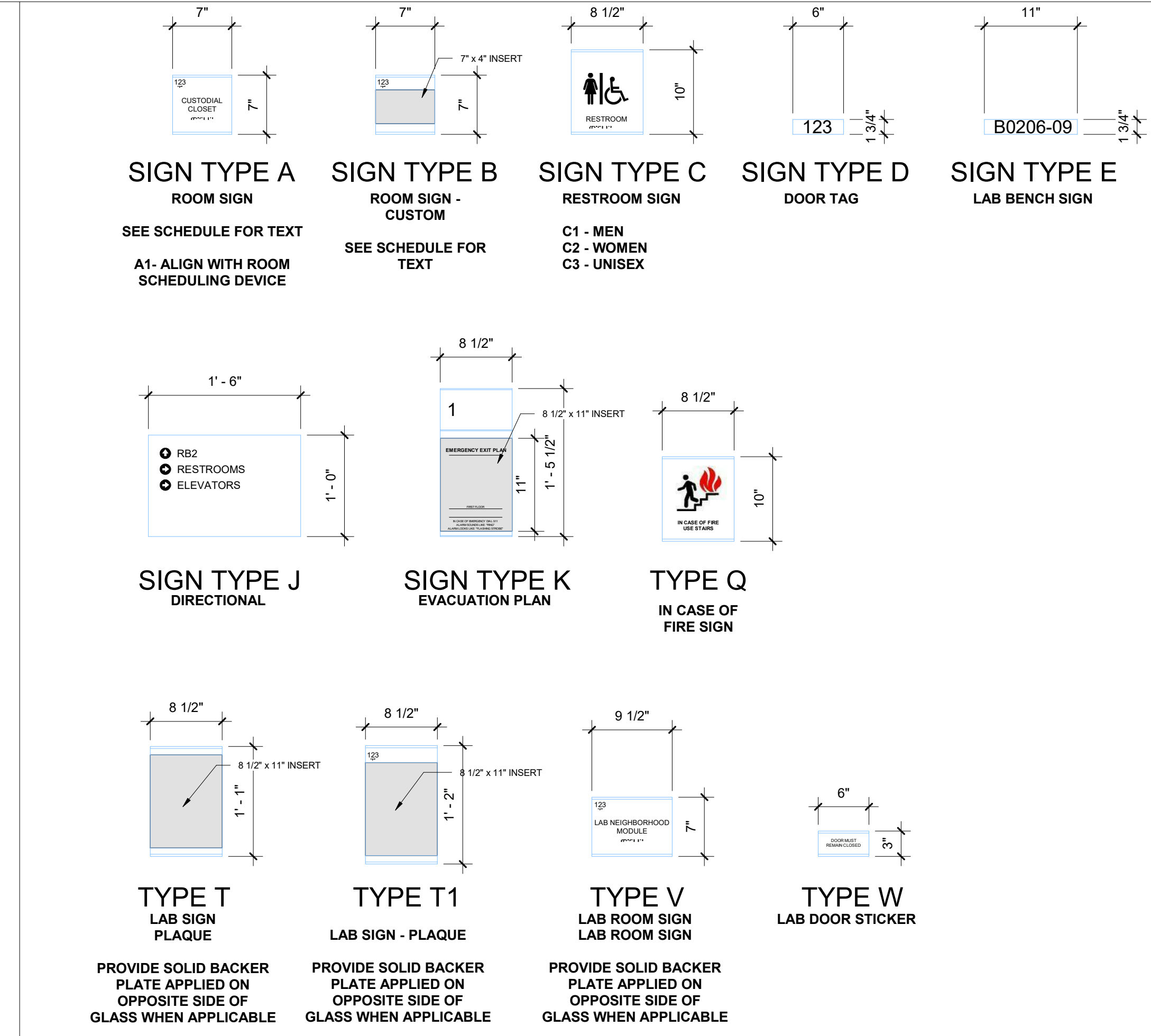
UNIVERSITY OF KENTUCKY
 760 Press Avenue, Lexington, KY

CONSTRUCT RESEARCH BUILDING (FIT-UP TWO WET LABS)

UK Project Number 2538.0

1 LEVEL ONE - SIGNAGE PLAN - AREA "B"
 AI-728A 1/8" = 1'-0"

SIGNAGE SCHEDULE - NIH				
Number	Name	SIGN TYPE	SIGN NAME	SIGN COMMENTS
116	FACULTY OFFICE	B	116	
117	FACULTY OFFICE	B	117	
118	POST DOC/GRAD/TECH	A	TBD	TYPE A SIGN AT BOTH ENDS OF ROOM
119	FACULTY OFFICE	B	119	
120	OFFICE	B	120	
121	FACULTY OFFICE	B	121	
122	FACULTY OFFICE	B	122	
123	POST DOC/GRAD/TECH	A	TBD	TYPE A SIGN AT BOTH ENDS OF ROOM
124	FACULTY OFFICE	B	124	
125	OFFICE	B	125	
126	COPY	A	COPY ROOM	
127	COLLABORATION	A	COLLABORATION	
129	CUSTODIAL	A	CUSTODIAL	
130	COLLABORATION	A	COLLABORATION	
131	OFFICE	B	131	
132	FACULTY OFFICE	B	132	
134	POST DOC/GRAD/TECH	A	TBD	
135	FACULTY OFFICE	B	135	
136	FACULTY OFFICE	B	136	
137	OFFICE	B	137	
138	FACULTY OFFICE	B	138	
139	POST DOC/GRAD/TECH	A	TBD	
140	FACULTY OFFICE	B	140	
141	FACULTY OFFICE	B	141	
142	KITCHEN	A	KITCHEN	
143	COLLABORATION	A	COLLABORATION	
144	CONFERENCE ROOM	A	CONFERENCE ROOM	
151	LAB NEIGHBORHOOD MODULE	GROUP 2	TBD	GROUP 2 SIGN AT DOORS / TYPE E SIGN AT BENCHES
151A	FUME HOOD ROOM	GROUP 3	TBD	
151B	PROCEDURE ROOM	GROUP 3	TBD	SIGNS MOUNTED TO DOOR
151C	LINEAR EQUIP ROOM	GROUP 3	TBD	SIGNS MOUNTED TO DOOR
151D	PROCEDURE ROOM	GROUP 3	TBD	SIGNS MOUNTED TO DOOR
151E	PROCEDURE ROOM	GROUP 3	TBD	SIGNS MOUNTED TO DOOR
151F	PROCEDURE ROOM	GROUP 3	TBD	SIGNS MOUNTED TO DOOR
151G	PROCEDURE ROOM	GROUP 3	TBD	SIGNS MOUNTED TO DOOR
151H	LINEAR EQUIP ROOM	GROUP 3	TBD	SIGNS MOUNTED TO DOOR
151H1	ENVIRONMENTAL ROOM	GROUP 3	TBD	SIGNS MOUNTED TO DOOR
151J	PROCEDURE ROOM	GROUP 3	TBD	SIGNS MOUNTED TO DOOR
151K	PROCEDURE ROOM	GROUP 3	TBD	SIGNS MOUNTED TO DOOR
152	LAB NEIGHBORHOOD MODULE	GROUP 2	TBD	GROUP 2 SIGN AT DOORS / TYPE E SIGN AT BENCHES
152A	PROCEDURE ROOM	GROUP 3	TBD	
152B	PROCEDURE ROOM	GROUP 3	TBD	SIGNS MOUNTED TO DOOR
152C	LINEAR EQUIP ROOM	GROUP 3	TBD	SIGNS MOUNTED TO DOOR
152D	PROCEDURE ROOM	GROUP 3	TBD	SIGNS MOUNTED TO DOOR
152E	PROCEDURE ROOM	GROUP 3	TBD	SIGNS MOUNTED TO DOOR
152F	PROCEDURE ROOM	GROUP 3	TBD	SIGNS MOUNTED TO DOOR
152G	PROCEDURE ROOM	GROUP 3	TBD	SIGNS MOUNTED TO DOOR
152H	LINEAR EQUIP ROOM	GROUP 3	TBD	SIGNS MOUNTED TO DOOR
152J	PROCEDURE ROOM	GROUP 3	TBD	SIGNS MOUNTED TO DOOR
152K	FUME HOOD ROOM	GROUP 3	TBD	SIGNS MOUNTED TO DOOR



ISSUANCES

No.	Description	Date
1	DD ISSUANCE - NIH	02/05/20
2	CD ISSUANCE - NIH	04/14/20
3	BID & PERMIT - NIH	05/22/20

Drawn By: [Signature]
 Author: [Signature]
 Checked By: [Signature]
 Checker: [Signature]
 Client Number: 514
 Project Number: 5350

DRAWING TITLE

INTERIOR SIGNAGE - LEVEL ONE AREA 'B'

SHEET NO. AI-728A

SIGNAGE LEGEND

SIGNAGE MOUNTING & SIGN GROUP

GENERAL NOTES

- 1. GENERAL NOTES HEREIN SHALL BE APPLICABLE TO ALL LABORATORY CASEWORK AND FIXED EQUIPMENT DRAWINGS.
2. DRAWINGS INDICATE DESIGN INTENT AND GENERAL SCOPE OF WORK, REFER TO DETAILS, SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. HEREIN IS THE LEGENDS OF SYMBOLS AND ABBREVIATIONS WHICH SHALL BE USED AS A DICTIONARY TO DEFINE ITEMS INDICATED ON DRAWINGS; NOT ALL SYMBOLS OR ABBREVIATIONS DEFINED ARE NECESSARILY USED.
4. CASEWORK NOMENCLATURE HEREIN DOES NOT REFER TO ANY SPECIFIC CASEWORK MANUFACTURER OR PRODUCT. (U.O.N.)
5. CASEWORK & FIXED EQUIPMENT MANUFACTURER SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL DIMENSIONS PRIOR TO FABRICATION.
6. COORDINATE WITH ARCHITECTURAL FLOOR PLANS FOR ROOM DIMENSIONS, CONSTRUCTION AND FINISHES.
7. ALL DIMENSIONS ARE NOMINAL. COORDINATE VARIATIONS BASED ON APPROVED MANUFACTURER. ANY CHANGES SUBJECT TO ARCHITECT'S AND/OR LABORATORY CONSULTANT'S APPROVAL.
8. MANUFACTURER MODEL NUMBER NOTED HEREIN SHALL BE FOR THE PURPOSE OF 'BASIS OF DESIGN' AND SHALL NOT IMPLY SOLE SOURCE OF A SINGLE MANUFACTURER. REFER TO RESPECTIVE SPECIFICATIONS FOR ADDITIONAL ACCEPTABLE MANUFACTURERS.
9. REVIEW DRAWINGS OF OTHER DISCIPLINES AS PART OF THIS SCOPE FOR RELATED WORK REQUIRED AND COORDINATION FOR OPERATION AND CONNECTION TO ASSOCIATED SYSTEMS / ASSEMBLIES AND CODE AND STANDARD REQUIREMENTS.
10. WHERE DEVICES ARE INDICATED WITHIN CASEWORK, TO BE PROVIDED BY OTHERS, THE CASEWORK MANUFACTURER SHALL BE RESPONSIBLE FOR COORDINATING REQUIRED CUT OUTS FOR PROPER FIT.
11. ALL LABORATORY SERVICE FIXTURES LOCATED IN PLAN AND ELEVATION ARE FOR GRAPHIC PURPOSES ONLY. REFER TO SINK AND FIXTURE SCHEDULE FOR TYPE AND FINISH. FOR ADDITIONAL INFORMATION REFER TO SPEC. SECTION 12 53 53.
12. ELECTRICAL RECEPTACLES AND TELE/DATA OUTLETS ARE SHOWN ON LABORATORY CASEWORK/EQUIPMENT DRAWINGS FOR LOCATION AND COORDINATION WITH OTHERS ONLY. REFER TO DIVISION 26 & 27 DRAWINGS FOR ADDITIONAL INFORMATION. (IE. DENSITY, CIRCUITRY, ETC.)
13. COORDINATE "GROUPING" OF DEVICES PRIOR TO ROUGH-IN W/FURNITURE AND CASEWORK ARRANGEMENTS. REVIEW DIV.22 & 26 FOR OFF-SETTING OF PLUMBING AND ELECTRICAL OUTLET REQUIREMENTS.
14. ALL WALL CABINET AND ADJUSTABLE SHELVING SHALL BE ANCHORED IN ACCORDANCE WITH MOUNTING INSTRUCTIONS TO IN-WALL BACKING/GROUNDS AS REQUIRED BY CASEWORK MANUFACTURER.
15. CABINETS 24" OR LESS AS SHOWN SHALL BE CONSTRUCTED W/SINGLE LEAF DOOR (TYP.).
16. WHERE CLOSURE PANEL IS REQUIRED ABOVE AND WALL CABINET DOES NOT ABUT TO ANY ADJACENT ALL CABINET, PROVIDE FRONT AND SIDE CLOSURE PANEL (U.O.N.)
17. MAXIMUM FILLER PANEL FOR CASEWORK SHALL BE 1".
18. VIVARIUM BASE CABINETS: ALL BASE CABINETS SHALL BE SEALED/CAULKED TO ADJACENT SURFACES (WALLS, CABINETS, ETC.). WHERE KNEE SPACES IS PROVIDED WITH ADJACENT CABINET, PROVIDE FILLER/CLOSURE PANEL(S) FROM REAR OF CABINET, SIDE AND BOTTOM TO ADJACENT WALL AVOIDING OPEN AREAS BEHIND CABINET. SEALANT TYPE SHALL BE IN ACCORDANCE W/ NIH GUIDELINE - SEALANT TABLE EXHIBIT X4-2-A 01 2012 (APPLIES TO VIVARIUM AND LABORATORY).
19. ALL FUME HOOD BASE CABINET CONSTRUCTION MATERIAL SHALL MATCH ADJACENT CASEWORK (U.O.N.).
20. ALL ADJUSTABLE SHELVES SHALL BE MIN 12" DEEP (U.O.N.)
21. PEGBOARD MATERIAL & COLOR SHALL MATCH ASSOCIATED COUNTERTOP (U.O.N.)
22. ALL LABORATORY BENCH COUNTER TOPS SHALL BE INSTALLED AT 37" A.F.F. (U.O.N.)
23. ALL COUNTERTOPS SHALL BE EPOXY RESIN (U.O.N.)
24. PRE-DRILL ALL COUNTERTOP AND BACKSPLASH HOLES (APPLIES TO DECK AND PANEL MOUNTED FIXTURES).
25. ALL SINK COUNTERTOPS TO BE DISHED MARINE EDGE (U.O.N.)
26. SERVICE CLEARANCE INSIDE AUTOCLAVE ALCOVE VERY LIMITED. VERIFY FIELD CONDITION AND COORDINATE INSTALLATION & PIPING WITH ARCHITECT & ENGINEERS. SERVICE ACCESS PANEL/DOOR TO BE PROVIDED FROM ADJACENT ROOM #415G & 551G

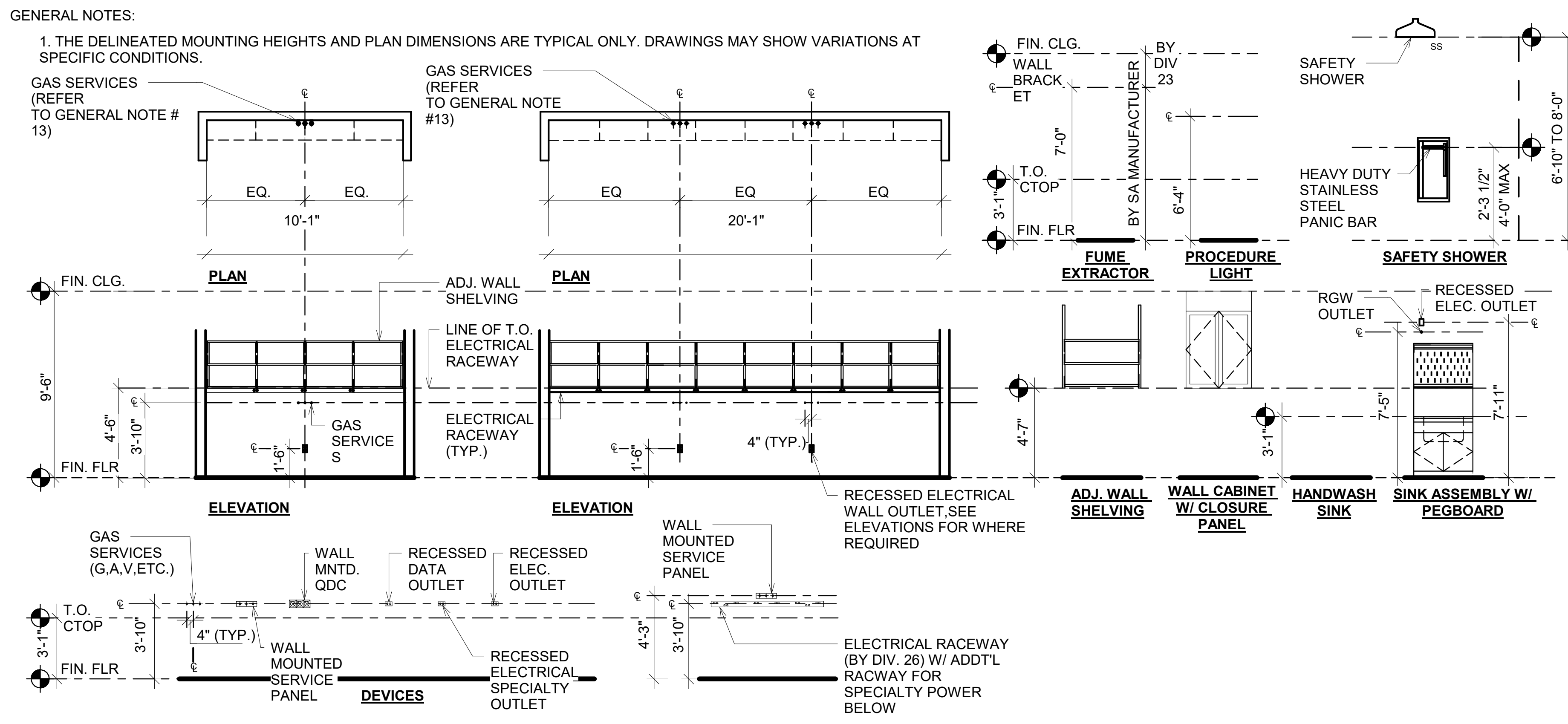
ABBREVIATIONS

Table with columns for abbreviations and their corresponding full names. Includes terms like AIR, ADD, ADD'L, ADJ, AFF, ALT, APPROX, AP, AR, ARCH, AS, etc.

CASEWORK SCHEDULE

Grid of casework schedule details including ACB, ACC12, FSA12, FSB, BHC24, SKA, MAC, MAF, MHC, MHF30, MHI30, MHK30, ASA, ASB, WSA, PB, WC, WCC_M, MT, TS, TCC, WSAFH. Each cell contains a legend and a diagram of the casework item.

TYPICAL MOUNTING HEIGHTS / DIMENSIONAL PLAN LOCATIONS



CHAMPLIN ARCHITECTURE logo and contact information: 720 E Pete Rose Way, Suite 140 Cincinnati, OH 45202. Includes website link thinkchamplin.com and tagline THINK CREATE REALIZE.

HGA logo and JACOBS Consultancy logo.

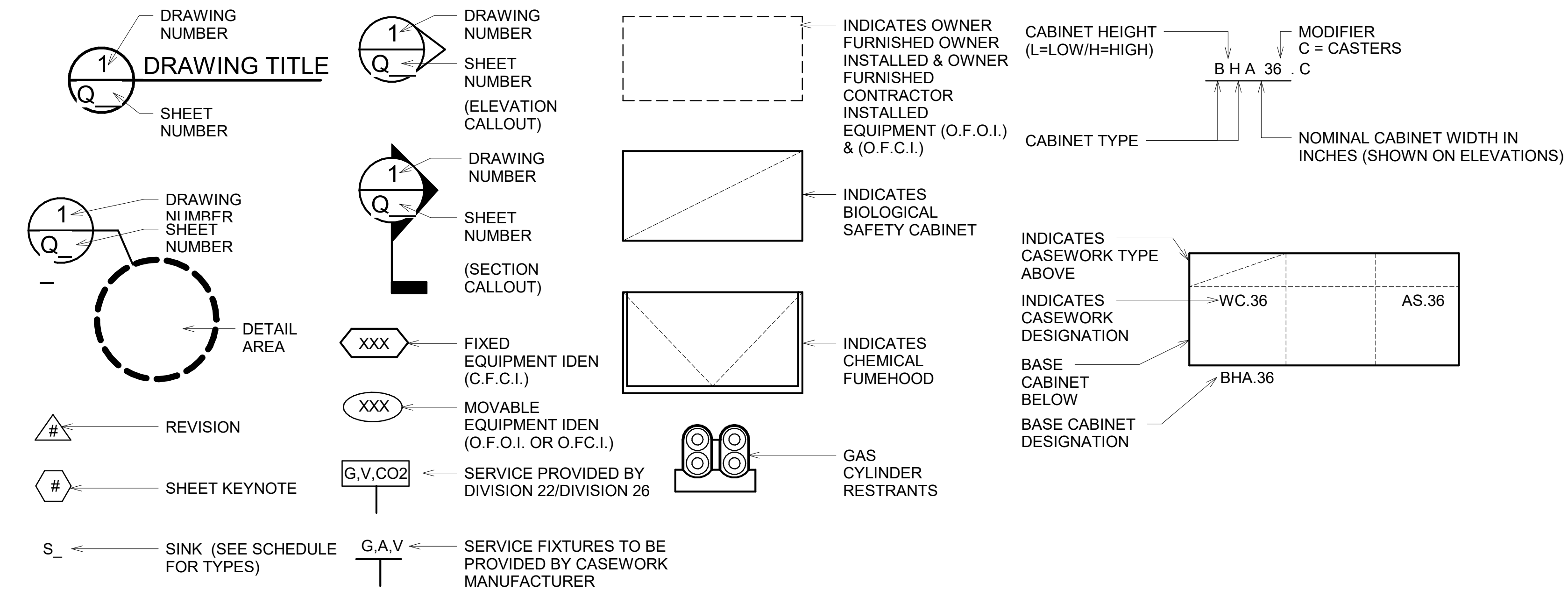
AEI Affiliated Engineers logo and CMTA logo.

UK logo and HEALTHY KENTUCKY RESEARCH BUILDING UNIVERSITY OF KENTUCKY logo. Includes text 'CONSTRUCT RESEARCH BUILDING (FIT-UP TWO WET LABS)' and 'UK Project Number 2538.0'.

ISSUANCES table with columns for No., Description, and Date. Lists design release packages, permit issues, and record drawings.

Project information section including 'Drawn By', 'Author', 'Checked By', 'Checker', 'Client Number 514', 'Project Number 5350', 'DRAWING LAB EQUIPMENT COVER SHEET', and 'SHEET NO. QL-100'.

SYMBOL LEGEND



SINK SCHEDULE

TAG	MATERIAL	SINK MOUNT	DIMENSIONS			HW/CW	CW	SERVICES			FIXTURE MOUNT	REMARKS
			LENGTH	WIDTH	DEPTH			RGW	EW	SP		
S1	EPOXY	UNDER MOUNT	24"	16"		X		X	X		DECK	
S2	EPOXY	UNDER MOUNT	21.5"	15.5"	12"	X		X	X		DECK	
S3	ST. STL.	INTEGRAL	18"	15"	12"		X				DECK	
S4	ST. STL.	INTEGRAL	12"	12"	8"	X			X		DECK	
S5	ST. STL.	INTEGRAL	24"	16"	12"	X			X		DECK	

FIXTURE SCHEDULE

DESIGNATION	DESCRIPTION	MODEL No.	MOUNT	FINISH	DISC COLOR	HANDLE COLOR	REMARKS
CW-1	FAUCET	CT611-10VB55	DECK	SATIN CHROME	GREEN	GREY	10" SWING GOOSENECK; NYLON HANDLE; VACUUM BREAKER & AERATOR
EW-1	EYE WASH FIXTURE	CTEW1022BP	DECK	SATIN CHROME	N/A	GREY	EYE WASH/DRENCH HOSE WITH BACKFLOW PREVENTER
EW-2	EYE WASH FIXTURE	EW805	DECK	SATIN CHROME	N/A	GREY	EYE WASH, AUTOFLOW, 90 DEGREE SWIVEL, RIGHT HAND MOUNTING
HW/CW-1	MIXING FAUCET	CTA414-10VB55	DECK	SATIN CHROME	RED/GREEN	GREY	10" SWING GOOSENECK; NYLON HANDLES; VACUUM BREAKER & AERATOR
HW/CW-2	MIXING FAUCET	CT424-10VB	DECK	SATIN CHROME	RED/GREEN	GREY	10" SWING GOOSENECK; NYLON HANDLES; VACUUM BREAKER & AERATOR & WRIST BLADE HANDLES
RGW-1	PURE WATER FAUCET	CT7833-10	DECK	SATIN CHROME	WHITE	GREY	NYLON HANDLE; SERRATED HOSE END
RGW-2	PURE WATER FAUCET	CT7838SC-10	DECK	SATIN CHROME	WHITE	GREY	POLYPROPYLENE-LINED, SELF CLOSING CONTROL, 10" SPREAD
SS	EMERGENCY SHOWER	ESBF672	PANEL	ST. STL.			RECESSED EMERGENCY SHOWER, WALL MOUNTED SHOWER HEAD
V-1	NEEDLE VALVE	CT4880-225WSA	WALL	SATIN CHROME	YELLOW	GREY	STRAIGHT PATTERN NEEDLE VALVE WITH BRASS ESCUTCHEON AND MOUNTING SHANK
V-2	NEEDLE VALVE	CT4200-231WSA	DECK	SATIN CHROME	YELLOW	GREY	TURRET BASE WITH MOUNTING SINK
V-3	NEEDLE VALVE	CT740N-CR	FUME HOOD	POWDER COAT	YELLOW	GREY	STRAIGHT FRONT W/90 Deg ANGLE OUTLET FITTING W/SERRATED HOSE END & MOUNTING SHANK
V-4	NEEDLE VALVE	INV010-16-14BV-141EDI	LAB BENCH ASSEMBLY	SATIN CHROME	YELLOW	GREY	SPECIAL WYE FITTING W/TWO INSTRUMENTAL NEEDLE VALVES W/90 Deg. INLET ELBOW

EQUIPMENT SCHEDULE (C.F.C.I.)

TAG	DESCRIPTION	BASIS OF DESIGN	DIMENSIONS			REMARKS
			DEPTH	WIDTH	HEIGHT	
APT	ANIMAL PREP TABLE	TBJ MODEL 24-60	60"	24"	36"	
BD	BEDDING DISPENSER	BETTER BUILT D236 MODEL	96"	81.5"	60"	
BF	BOTTLE FILLER	BETTER BUILT				
BSC6-B2	BIOLOGICAL SAFETY CABINET	BAKER MODEL MCG601	33 5/8"	77 7/8"	86" - 94 1/2"	
BWS	BACKDRAFT WORKSTATION	TBJ MODEL 30-60 BD	34"	60"	36"	
CRW	CAGE AND RACK WASHER	BETTER BUILT R730 MODEL	97.5	92"	108"	
FEA	FUME EXTRACTOR ARM	MOVEX TERU4, 4"D EXTRACTOR ARM				EXHAUST: 105 CFM
FH60	FUME HOOD	KEWAUNEE	36 3/4"	60"	89 3/4"	
FH60-ADA	ADA FUME HOOD	KEWAUNEE	36"	60"	84"	
HAST	HOT AIR STERILIZER	PCS	100"	98"	114"	
ICE	ICE FLAKER	HOSHIZAKI F-1001M_J	22"	26"	27.5"	WATER COOLED
LST-1	LARGE STEAM STERILIZER	STERIS MODEL LSS92121	85"	37"	85"	
MW	MOULAR WALL	STERIS				
NT	NECROPSY TABLE	BETTER BUILT DDT3060 MODEL	60"	30"	57"	
OL	LED SURGICAL LIGHTING SYSTEM	STERIS TWO HARMONY VLED LIGHTEADS				CENTER MOUNTED ON ONE 39-3/8" HORIZONTAL ARM, AND ONE 33-1/2" HORIZONTAL ARM.
PL	PROCEDURE LIGHT	STERIS EXAMINER 10				E: 1/60/115V
SC	SERVICE COLUMN	ALLIED	12"	14"	36" - 54"	CEILING-MOUNTED SERVICE COLUMN - MANUAL RETRACTABLE
SSS	SURGICAL SCRUB SINK	STERIS	27 9/32"	32"	51.5"	
ST-1	STEAM STERILIZER	STERIS CENTRY PREVAUUM STERILIZER	45"	30"	74"	CHAMBER DIMENSIONS: 20" X 20" X 30"
ST-2	STEAM STERILIZER	STERIS CENTRY PREVAUUM STERILIZER	46"	47"	48"	CHAMBER DIMENSIONS: 26" X 26" X 39"
TW	TUNNEL WASHER	BETTER BUILT T236 MODEL	240"	64"	99"	
UCW	UNDER COUNTER GLASSWARE WASHER	STERIS RELIANCE 100LS	27"	24"	34"	208V, 16 AMP
VGC1	VENTED CYLINDER CABINETS	SPECTRA GASES PRODUCT NUMBER F4001	18"	18"	75 75"	ONE CYLINDER CABINET WITH A 6" Dia. DUCT.
WFH120	WALK-IN FUME HOOD	LABCONCO		10'		

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HEALTHY KENTUCKY RESEARCH BUILDING

UNIVERSITY OF KENTUCKY

CONSTRUCT RESEARCH BUILDING (FIT-UP TWO WET LABS)

UK Project Number 2538.0

ISSUANCES

No.	Description	Date
1	Design Release Package #5	12/05/16
2	ASI 054	05/18/17
3	PHASE 2 DD 100%	08/15/18
4	100% CD REVIEW	10/15/18
5	ISSUE FOR BID & PERMIT	11/15/18
6	RECORD DRAWINGS	08/16/19
7	DD ISSUANCE - NIH	02/05/20
8	CD ISSUANCE - NIH	04/14/20
9	ISSUE FOR BID & PERMIT	05/01/20
10	BID & PERMIT - NIH	05/22/20

Drawn By

Author

Checked By

Checker

Client Number

514

Project Number

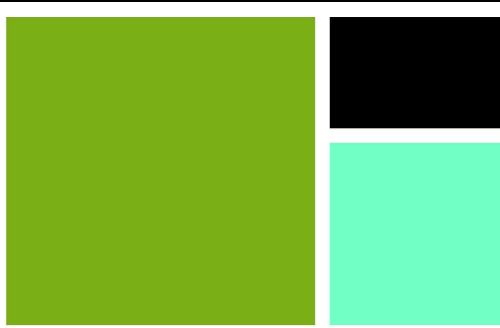
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DRAWING

LAB EQUIPMENT COVER SHEET

SHEET NO.

QL-101



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1	SD Issuance	12/16/2019
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4	ISSUE FOR BID & PERMIT	05/01/20
5	BID & PERMIT - NIH	05/22/20

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Project

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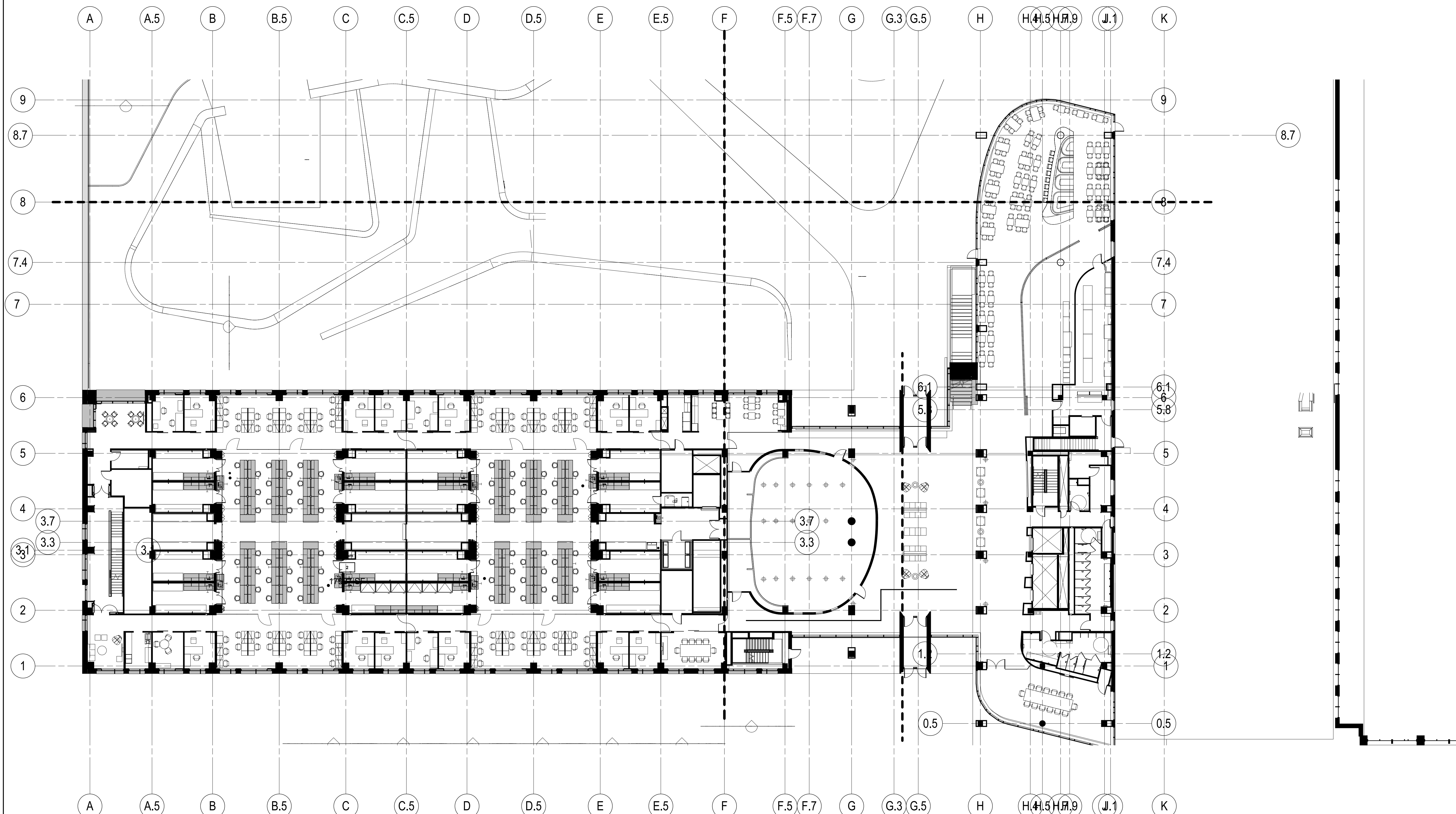
FLOOR PLAN LEVEL 01

OVERALL

SHEET NO.

QL-201

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1 OVERALL PLAN - LEVEL 01
1/16" = 1'-0"



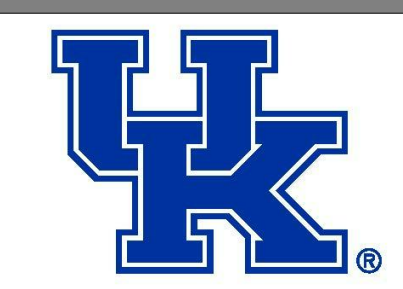
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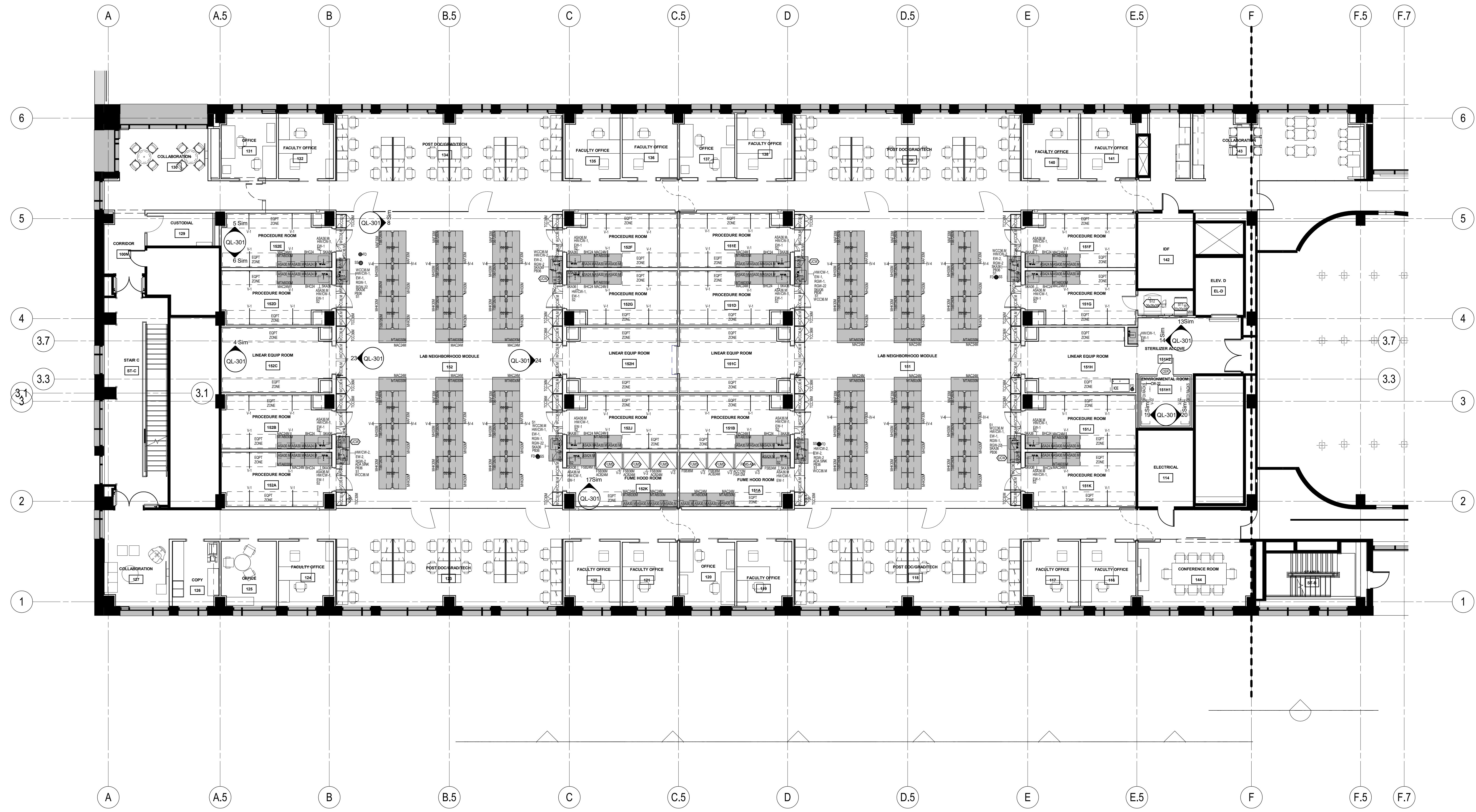
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FLOOR PLAN LEVEL 01
AREA "B"

SHEET NO.

QL-201B

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1 FLOOR PLAN - LEVEL 01 - AREA "B"
1/8" = 1'-0"



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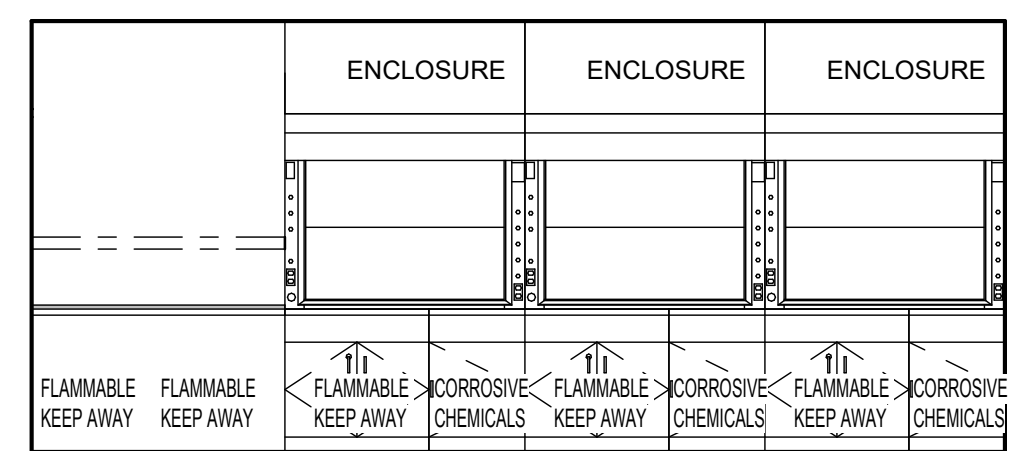
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CONSTRUCT RESEARCH BUILDING (FIT-UP TWO WET LABS)

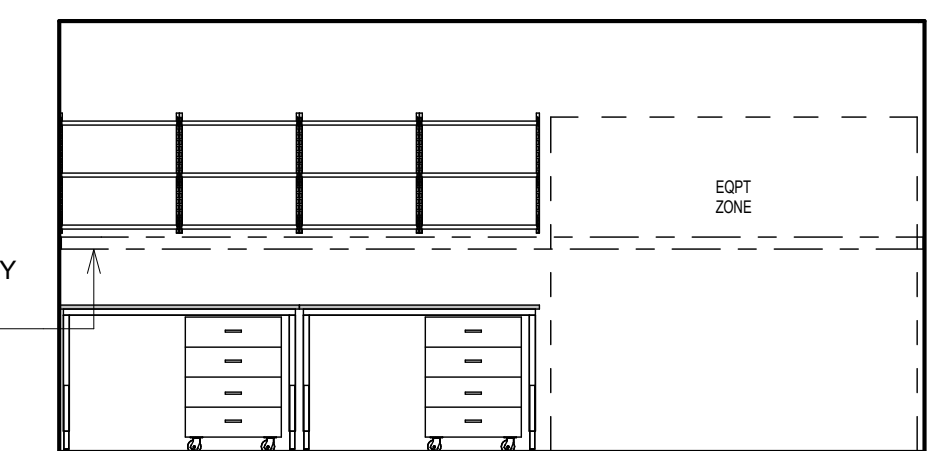
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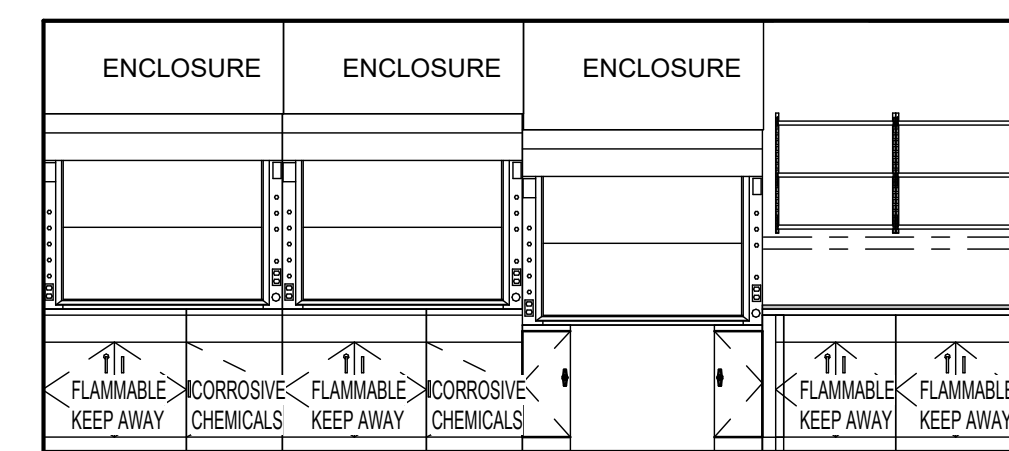
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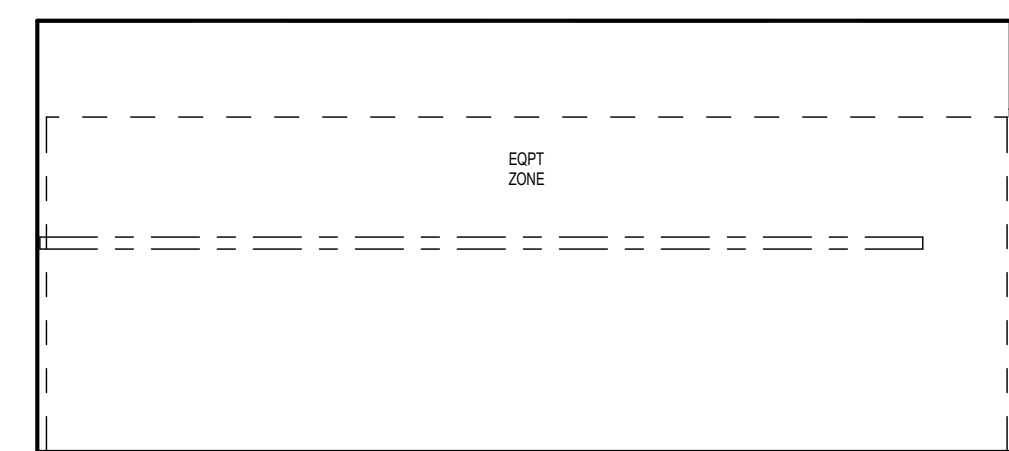
1 FUME HOOD
1/4" = 1'-0"



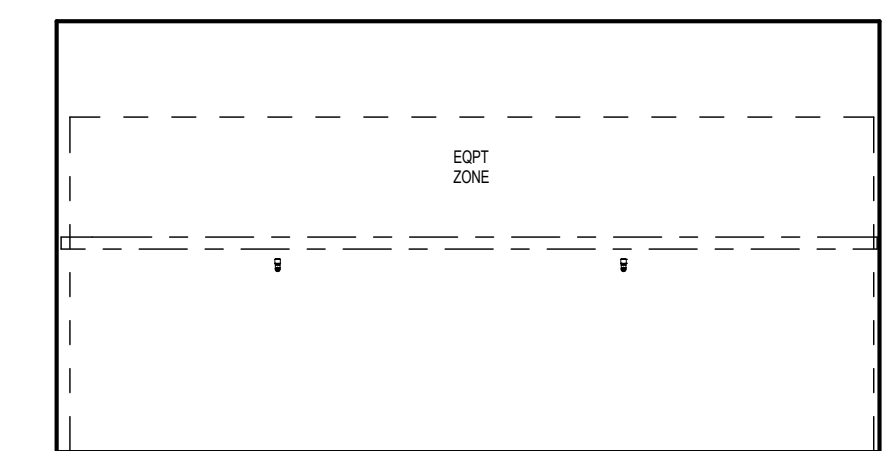
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1/4" = 1'-0"



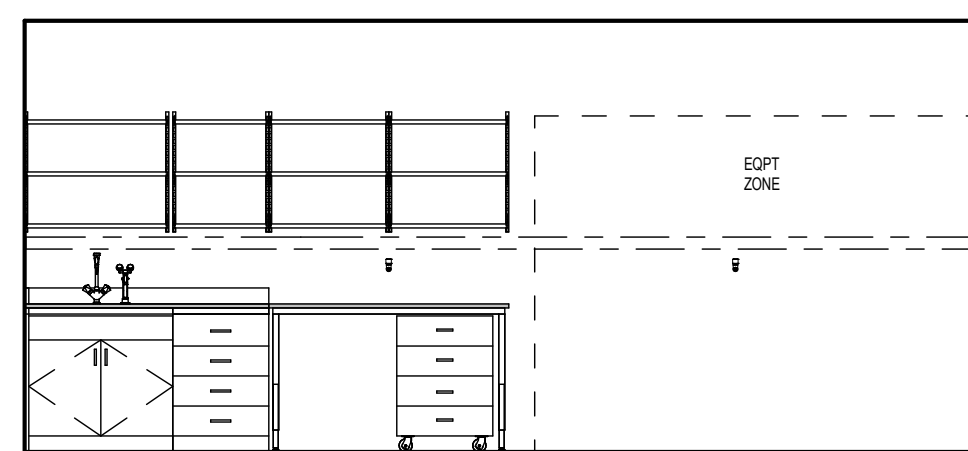
3 FUME HOOD
1/4" = 1'-0"



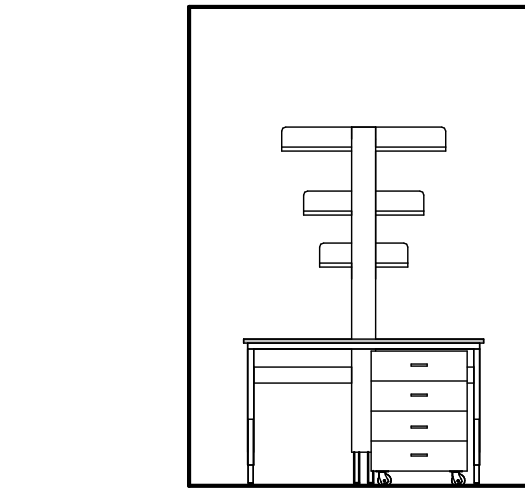
4 LINEAR EQUIPMENT
1/4" = 1'-0"



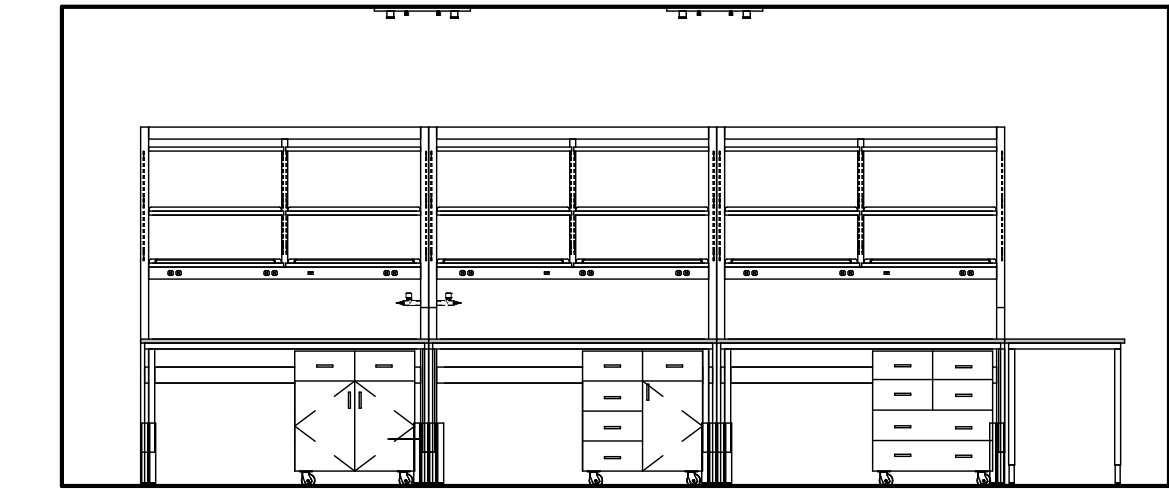
5 PROCEDURE ROOM
1/4" = 1'-0"



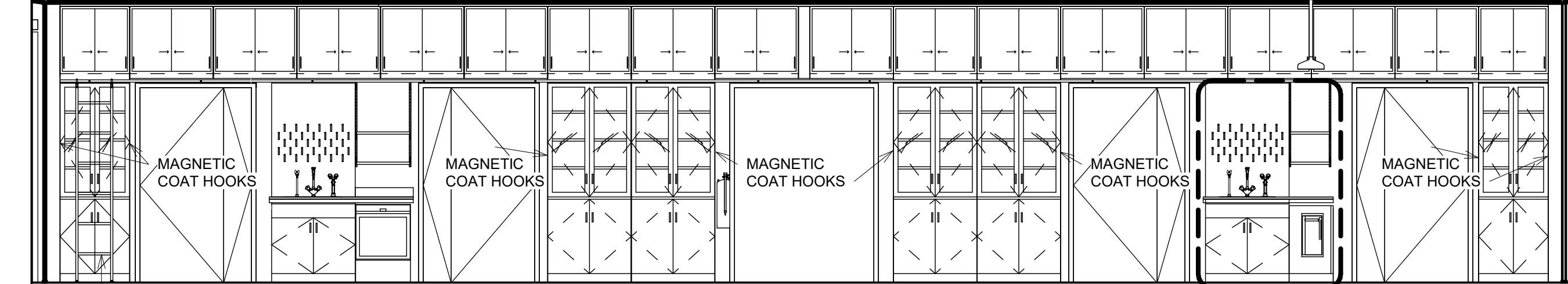
6 PROCEDURE ROOM
1/4" = 1'-0"



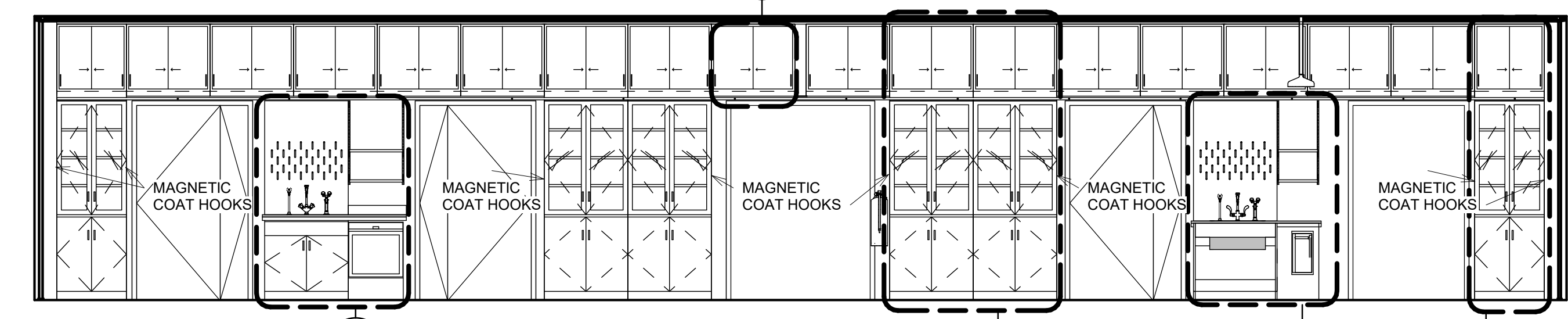
7 LAB NEIGHBORHOOD
1/4" = 1'-0"



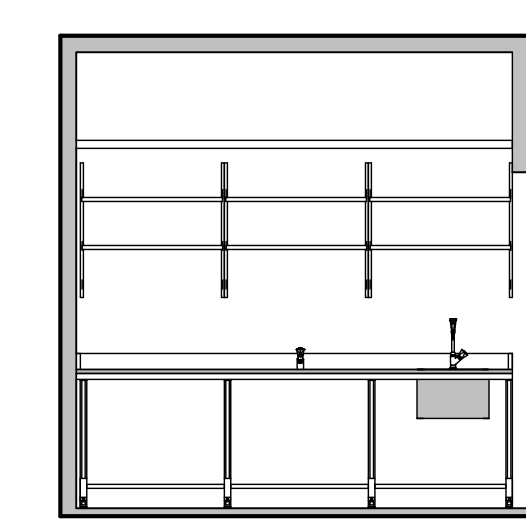
8 LAB NEIGHBORHOOD
1/4" = 1'-0"



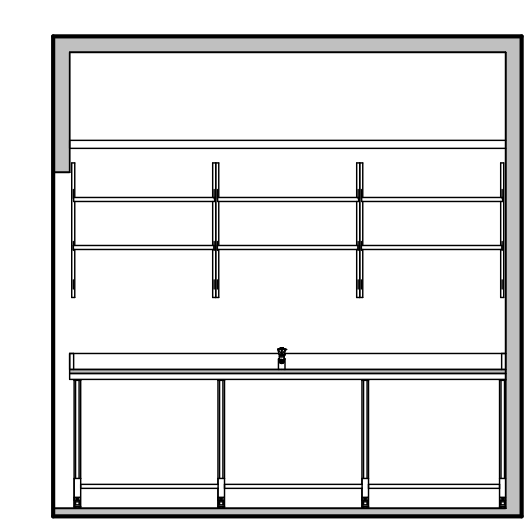
9 LAB NEIGHBORHOOD
1/4" = 1'-0"



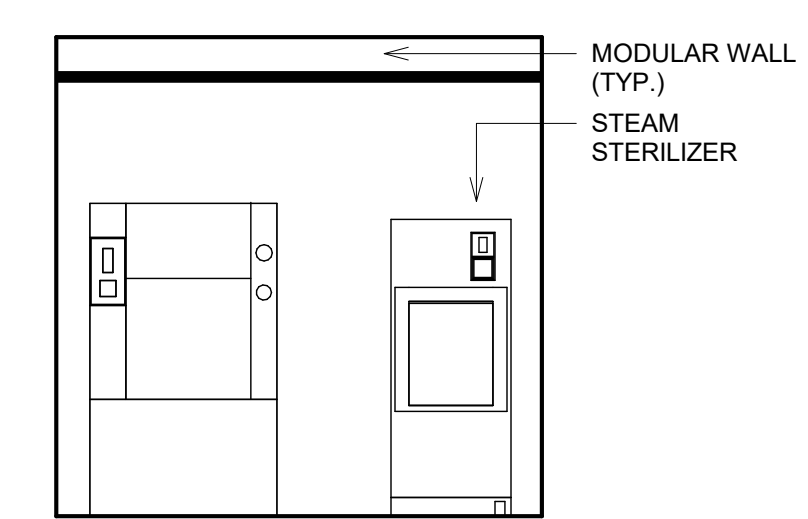
10 LAB NEIGHBORHOOD
1/4" = 1'-0"



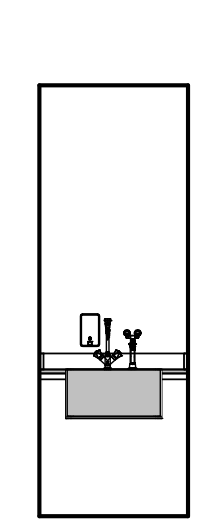
11 ENVIRONMENTAL ROOM
1/4" = 1'-0"



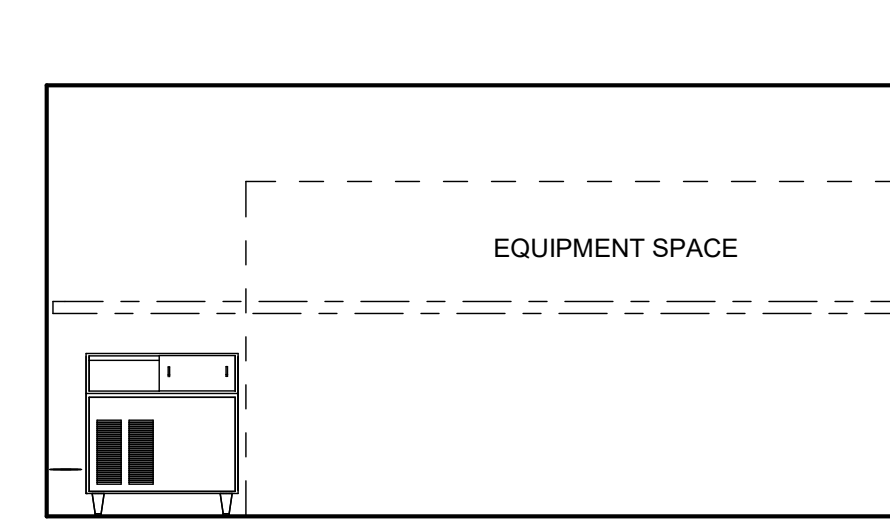
12 ENVIRONMENTAL ROOM
1/4" = 1'-0"



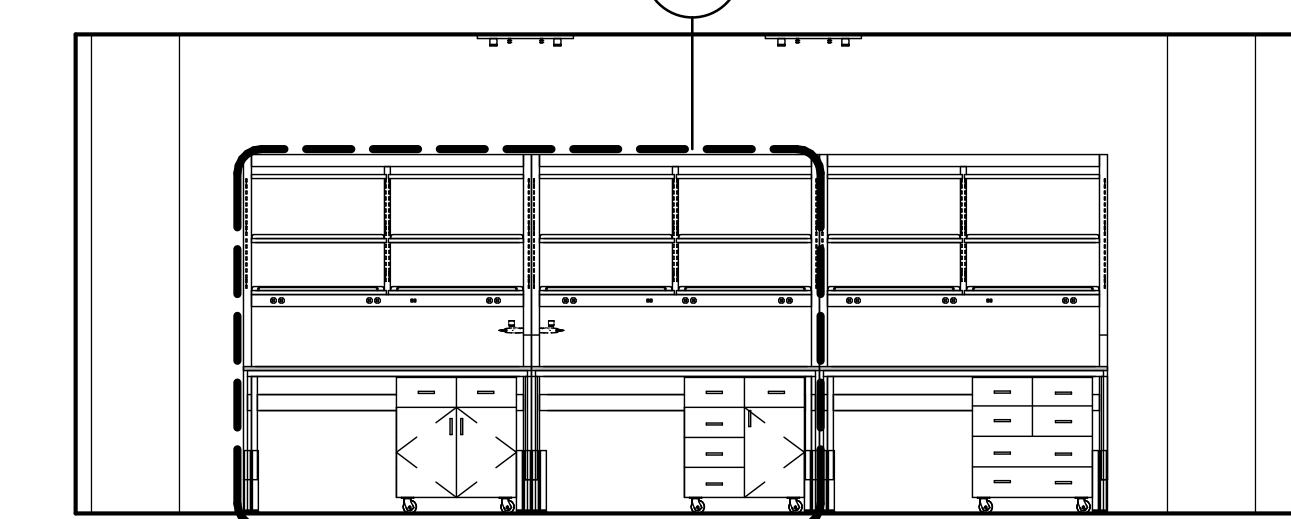
13 STERILIZER ALCOVE
1/4" = 1'-0"



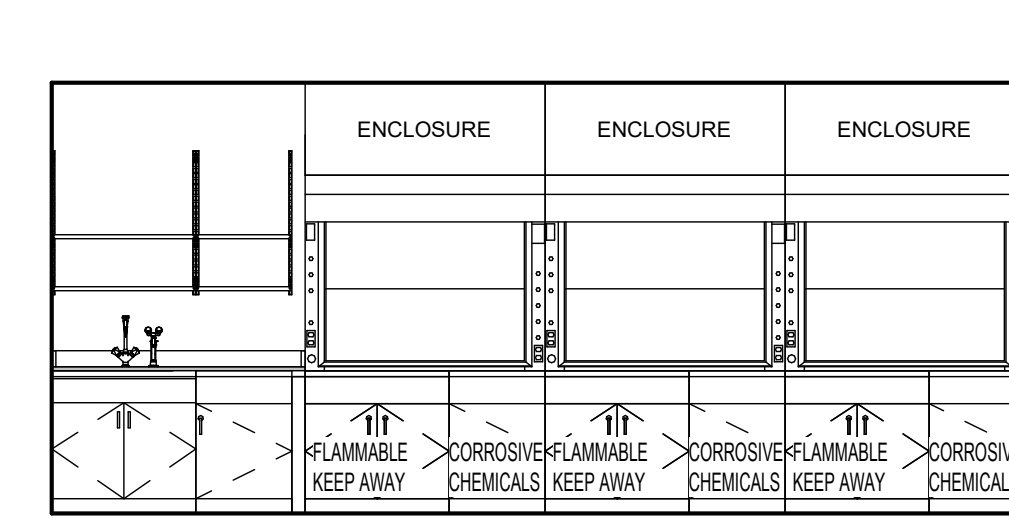
14 STERILIZER ALCOVE
1/4" = 1'-0"



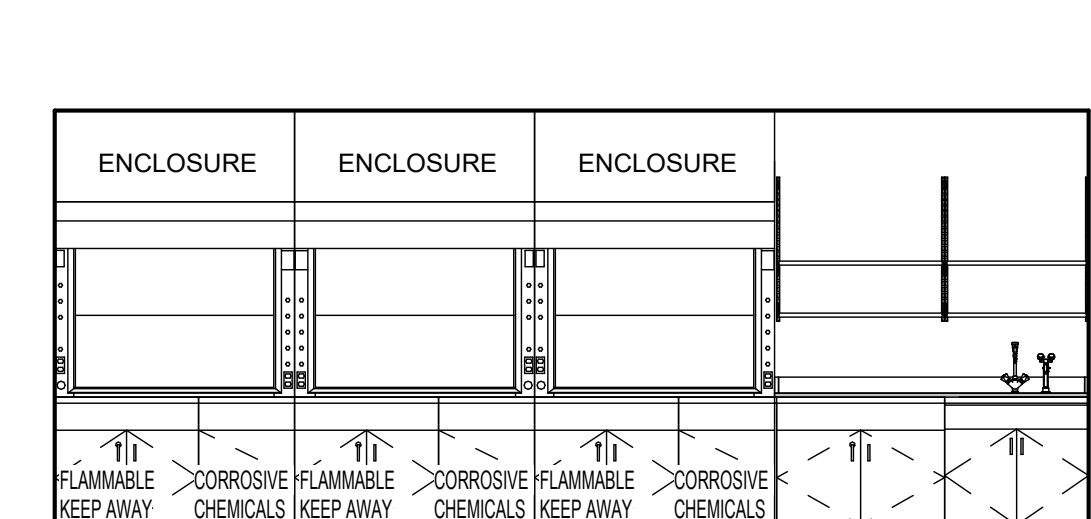
15 LINEAR EQUIPMENT
1/4" = 1'-0"



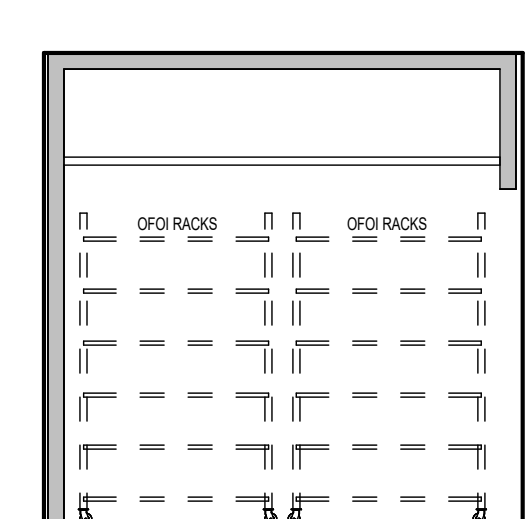
16 LAB NEIGHBORHOOD
1/4" = 1'-0"



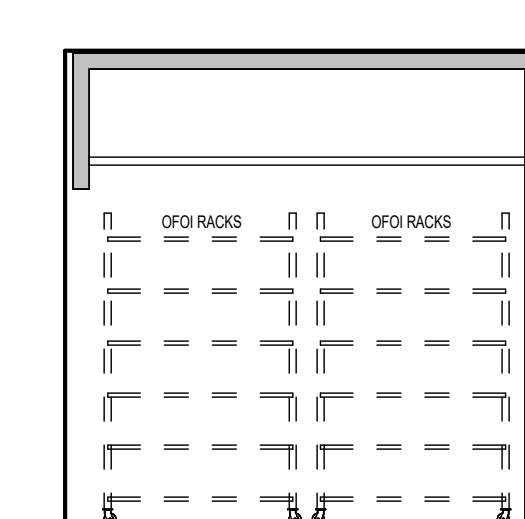
17 FUME HOOD 452K
1/4" = 1'-0"



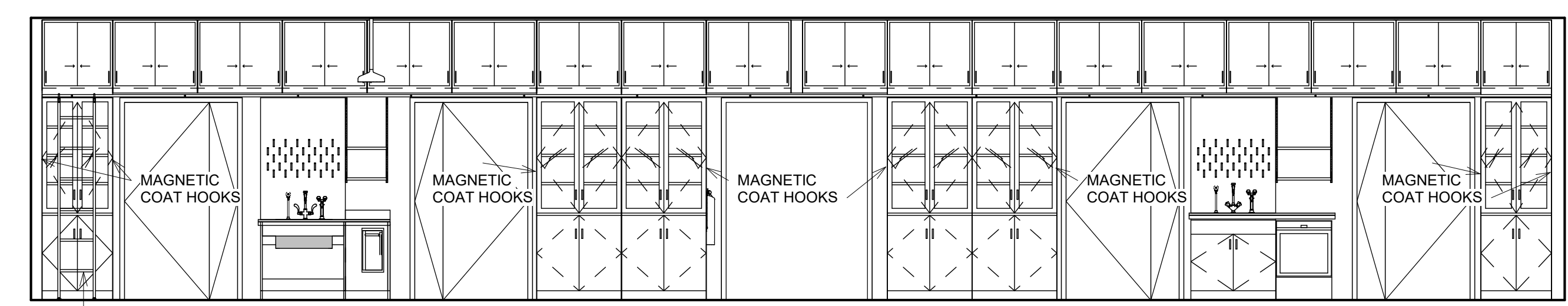
18 FUME HOOD 450A
1/4" = 1'-0"



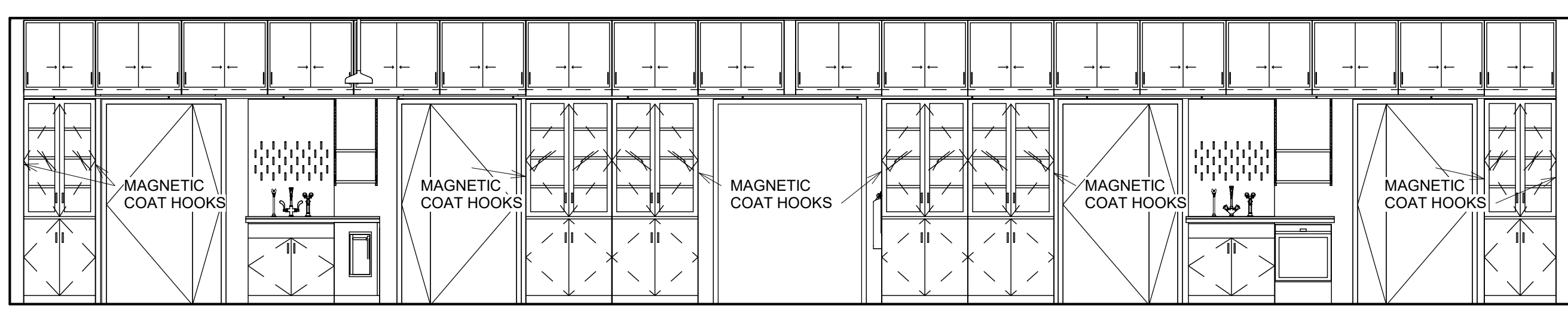
19 ENVIRONMENTAL ROOM 451H1
1/4" = 1'-0"



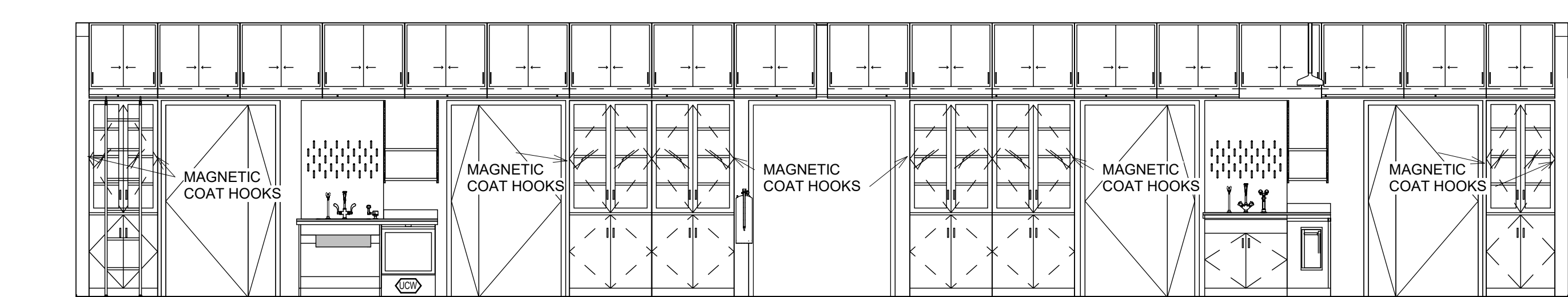
20 ENVIRONMENTAL ROOM 451H1
1/4" = 1'-0"



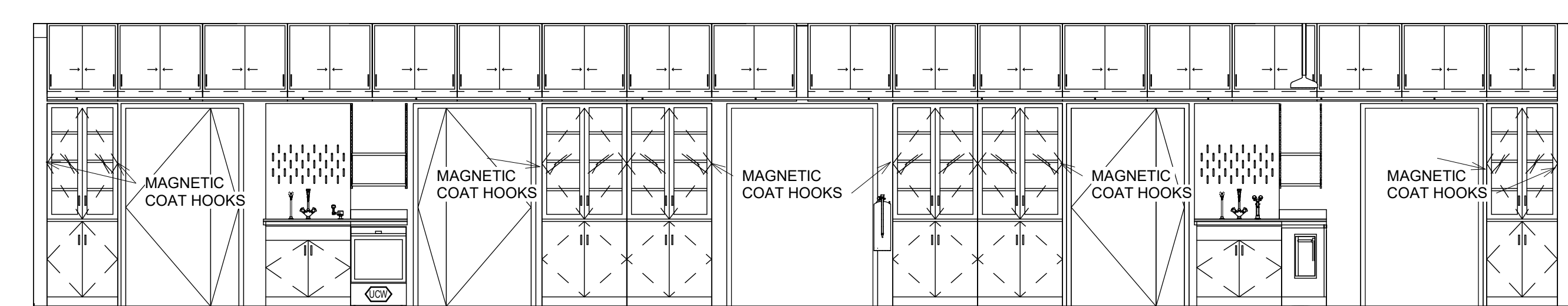
21 LAB NEIGHBORHOOD MODULE 450
1/4" = 1'-0"



22 LAB NEIGHBORHOOD MODULE 450
1/4" = 1'-0"



23 LAB NEIGHBORHOOD 152
1/4" = 1'-0"



24 LAB NEIGHBORHOOD 152
1/4" = 1'-0"

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Project Number
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DRAWING
LABORATORY ELEVATIONS
SHEET NO.
QL-301

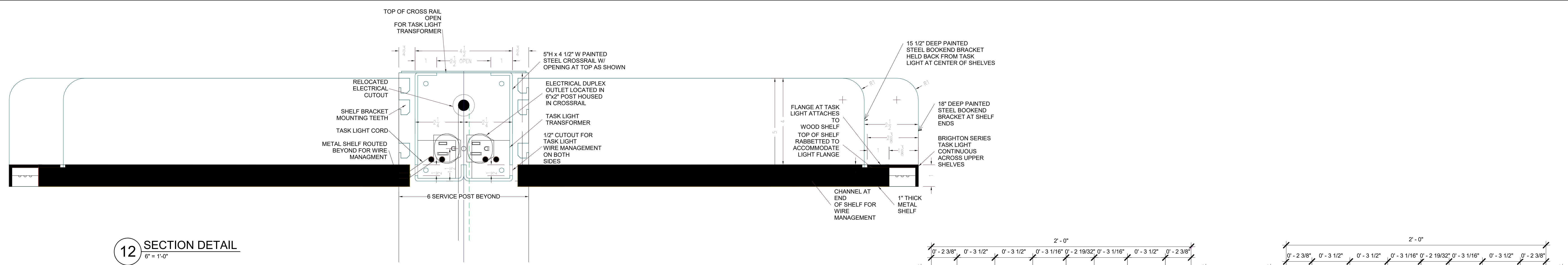
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ISSUANCES

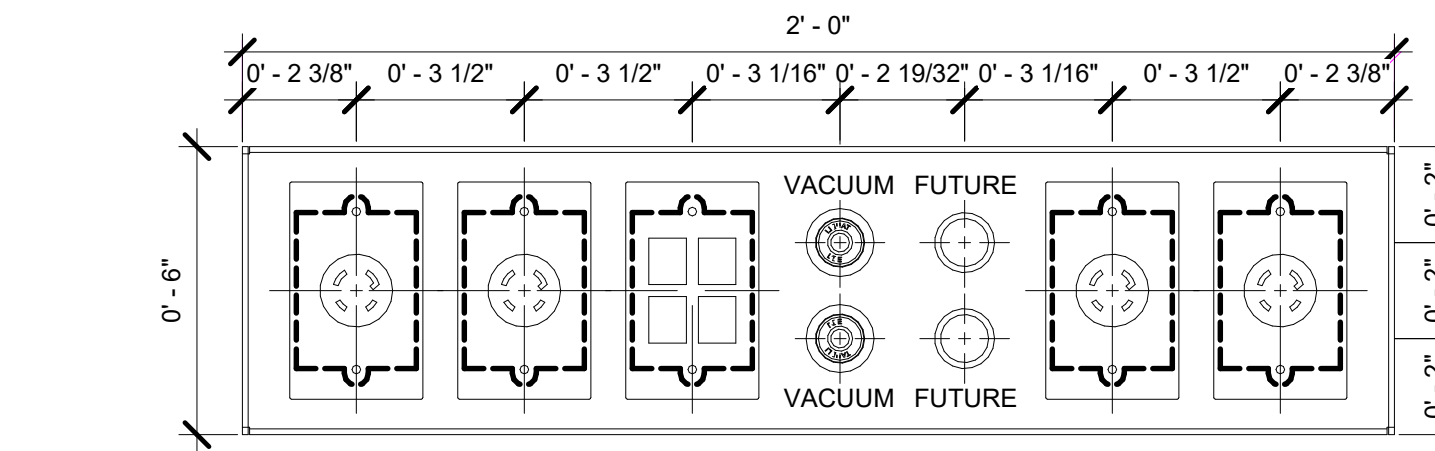
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2	PHASE 2 DD 100%	08/15/18
3	100% CD REVIEW	10/15/18
4	ISSUE FOR BID & PERMIT	11/15/18
5	RECORD DRAWINGS	08/18/19
6	DD ISSUANCE - NIH	02/05/20
7	CD ISSUANCE - NIH	04/14/20
8	ISSUE FOR BID & PERMIT	05/01/20
9	BID & PERMIT - NIH	05/22/20

Drawn By	Author
Checked By	Checker
Client Number	514
Project Number	5350

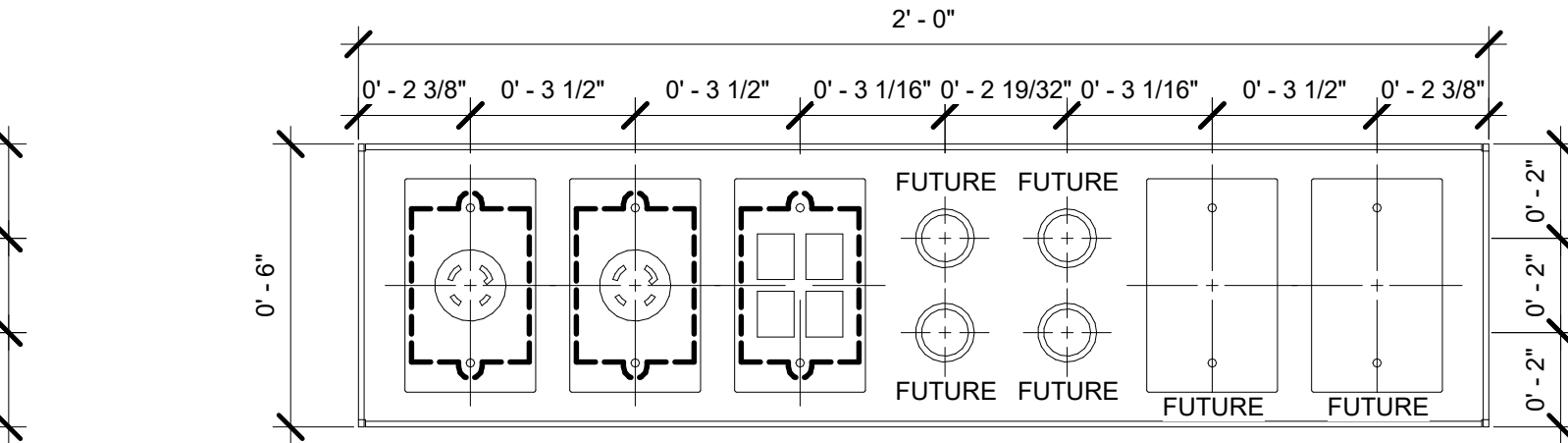
DRAWING
TABLE SYSTEMS AND
CEILING SERVICE
PANEL DETAILS
SHEET NO.
QL-400



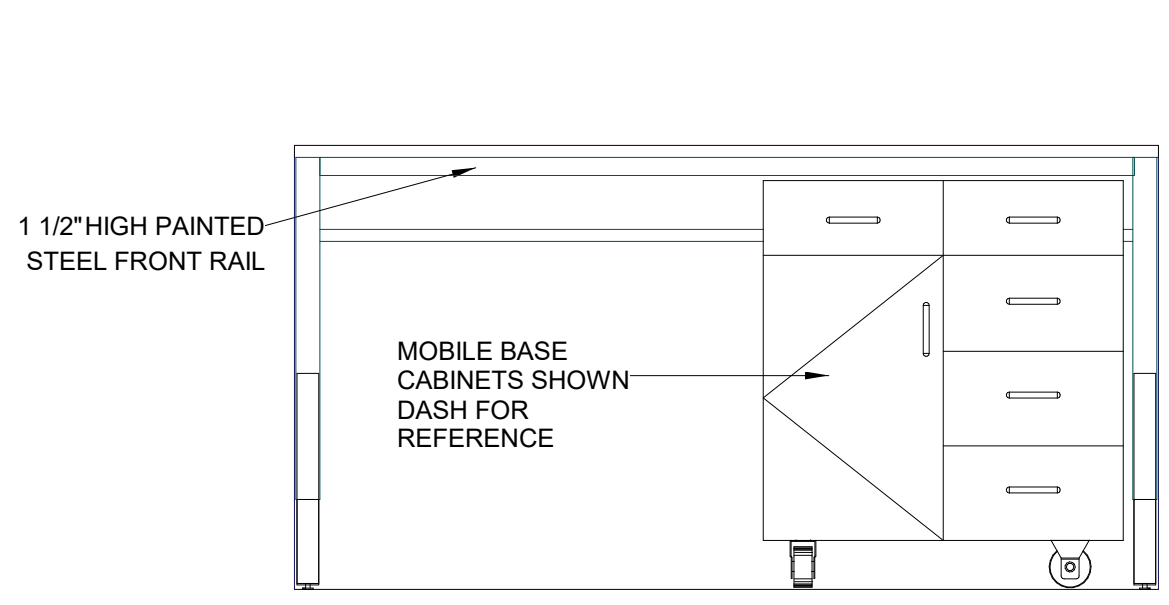
12 SECTION DETAIL
3/4" = 1'-0"



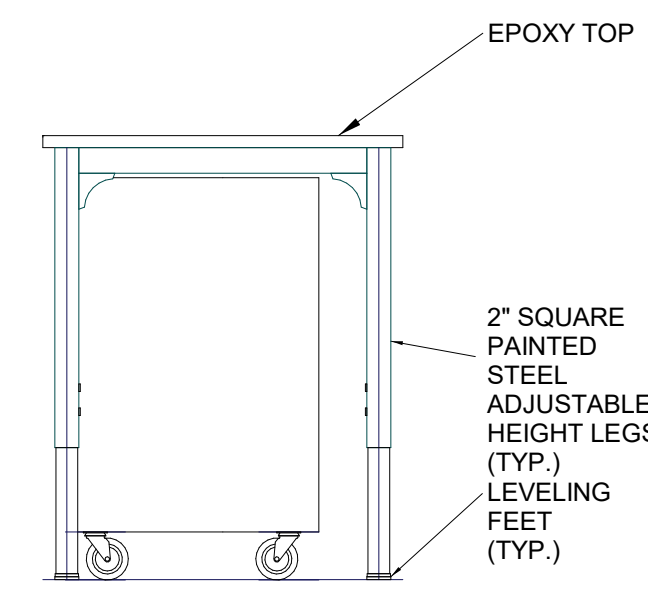
10 CEILING SERVICE PANEL CSP-1
3/4" = 1'-0"



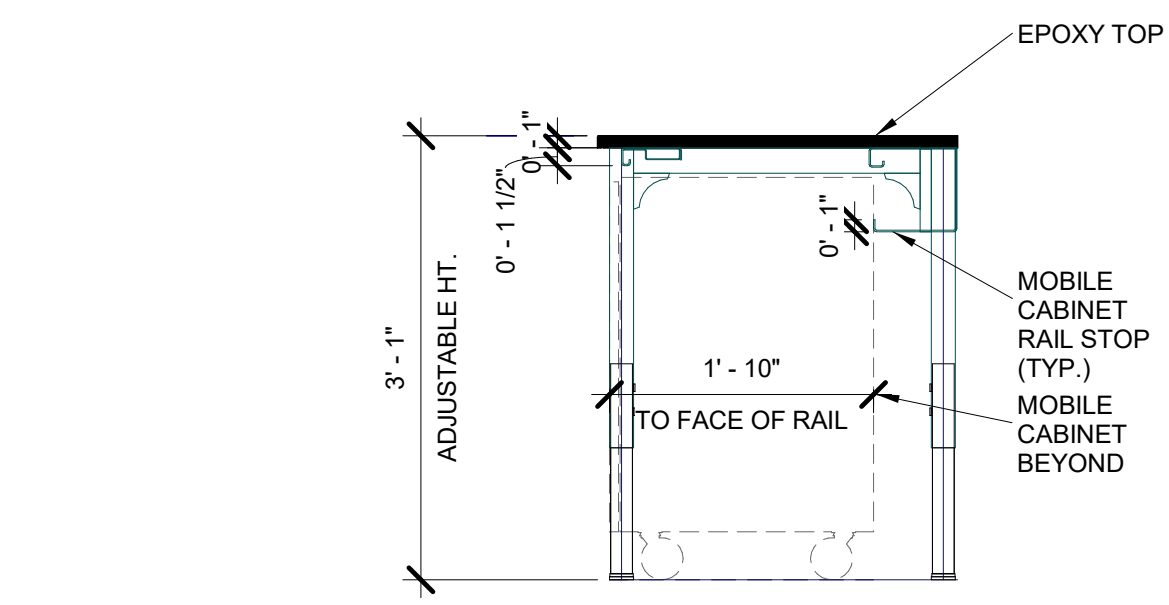
11 CEILING SERVICE PANEL CSP-2
3/4" = 1'-0"



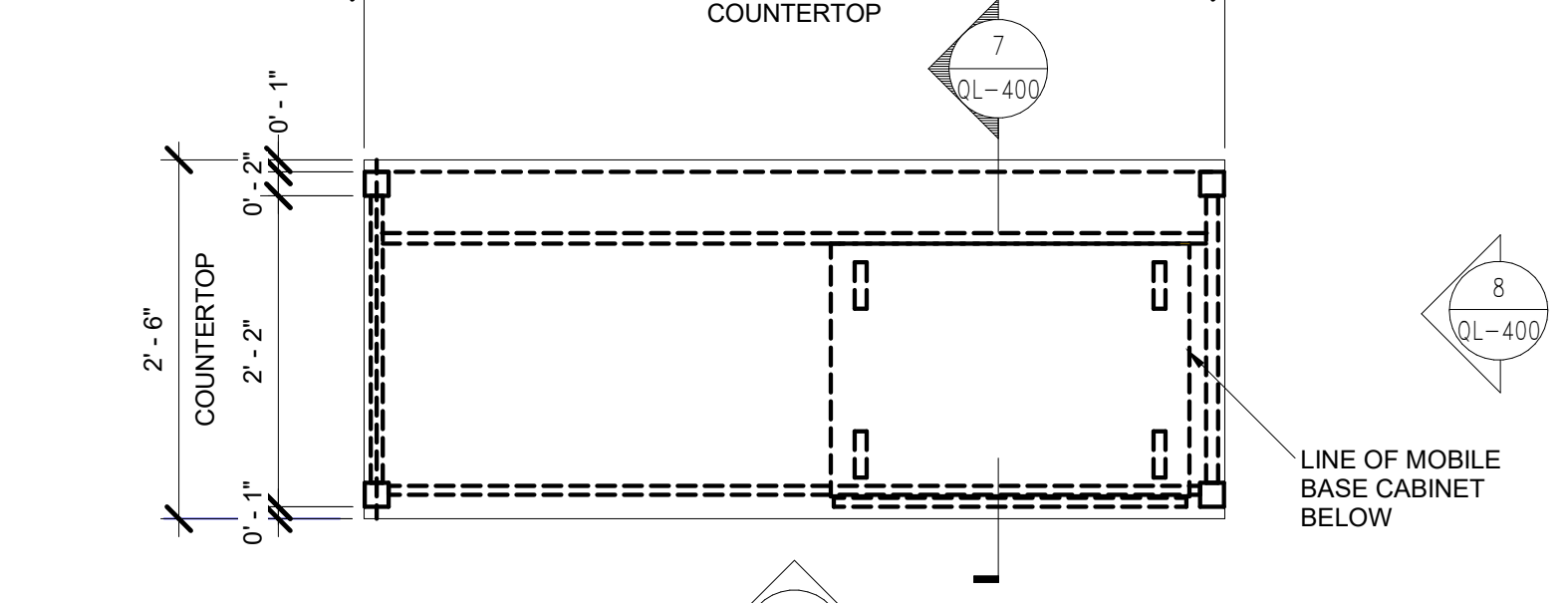
9 MOVEABLE TABLE (MT) FRONT ELEV.
3/4" = 1'-0"



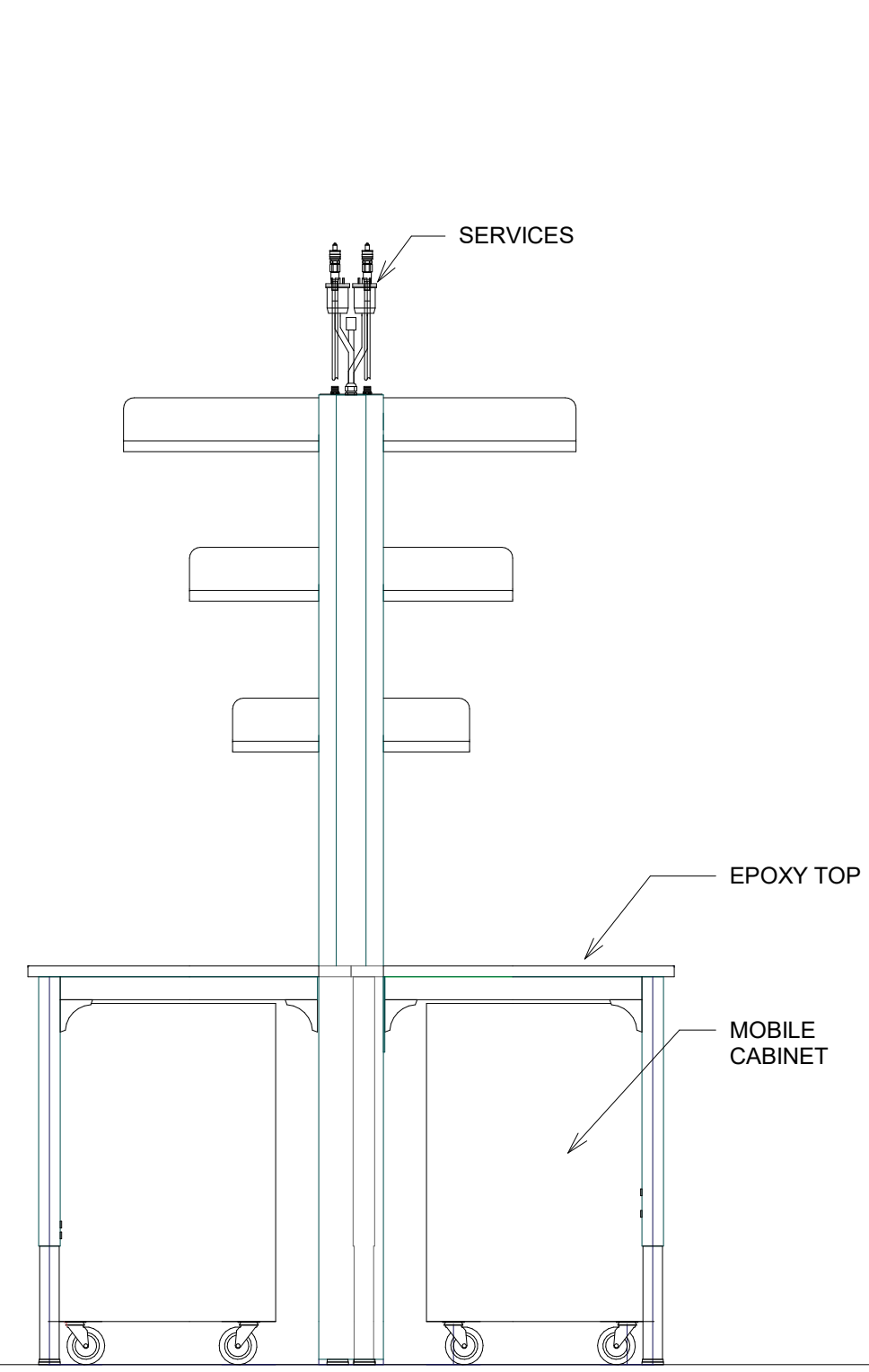
8 MOVEABLE TABLE (MT) SIDE ELEV.
3/4" = 1'-0"



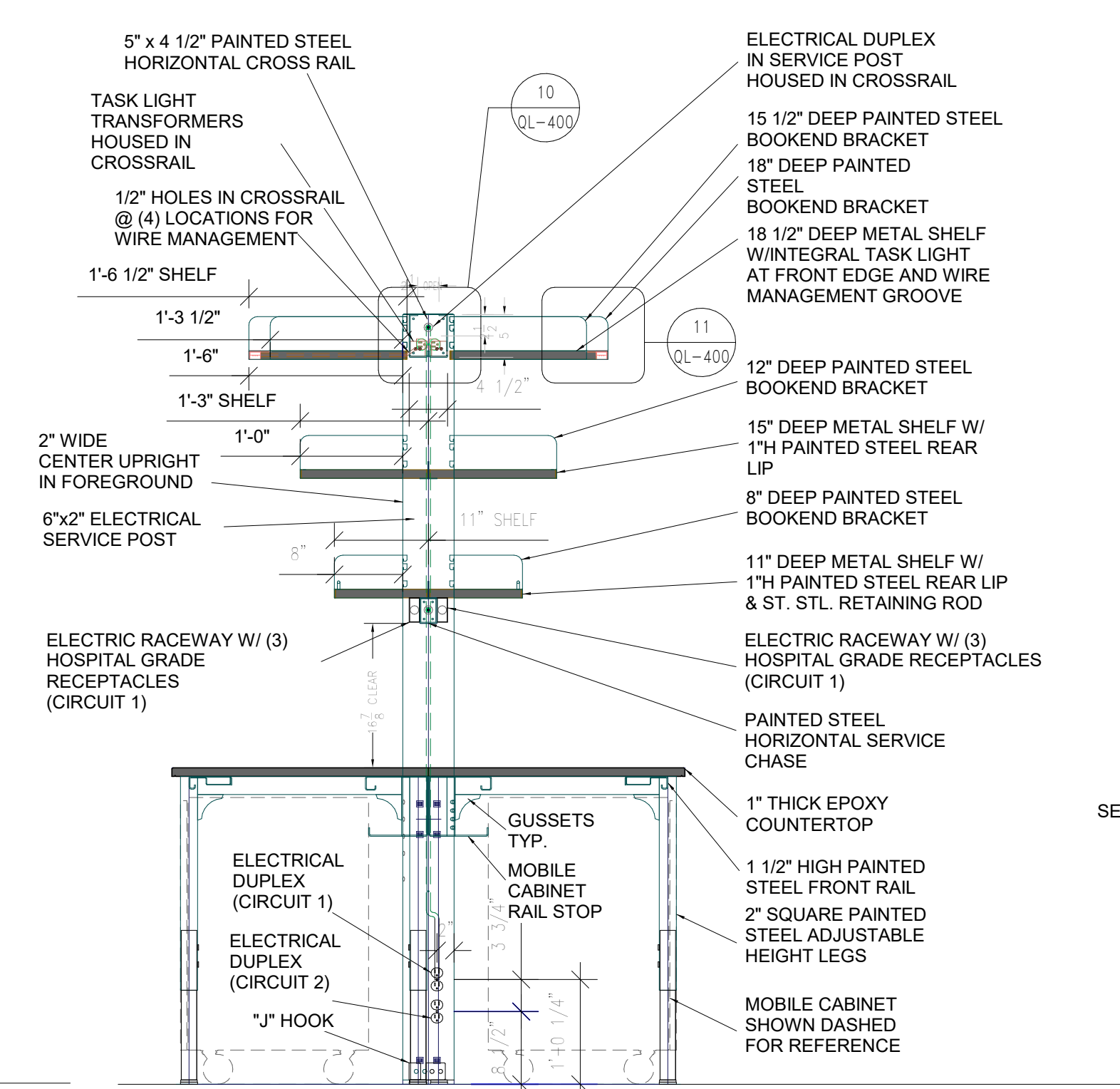
7 MOVEABLE TABLE (MT) SECTION
3/4" = 1'-0"



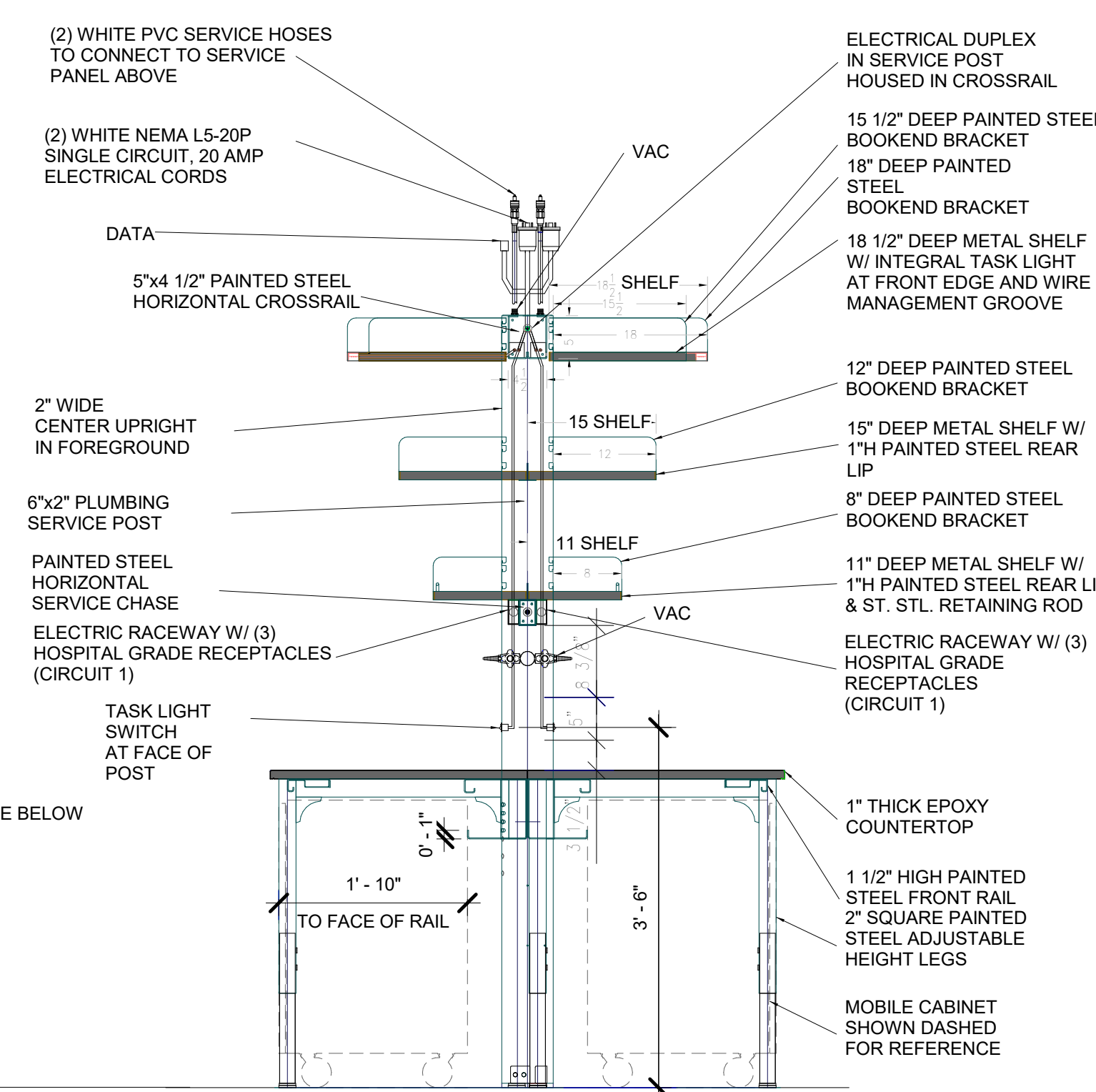
6 MOVEABLE TABLE (MT) PLAN
3/4" = 1'-0"



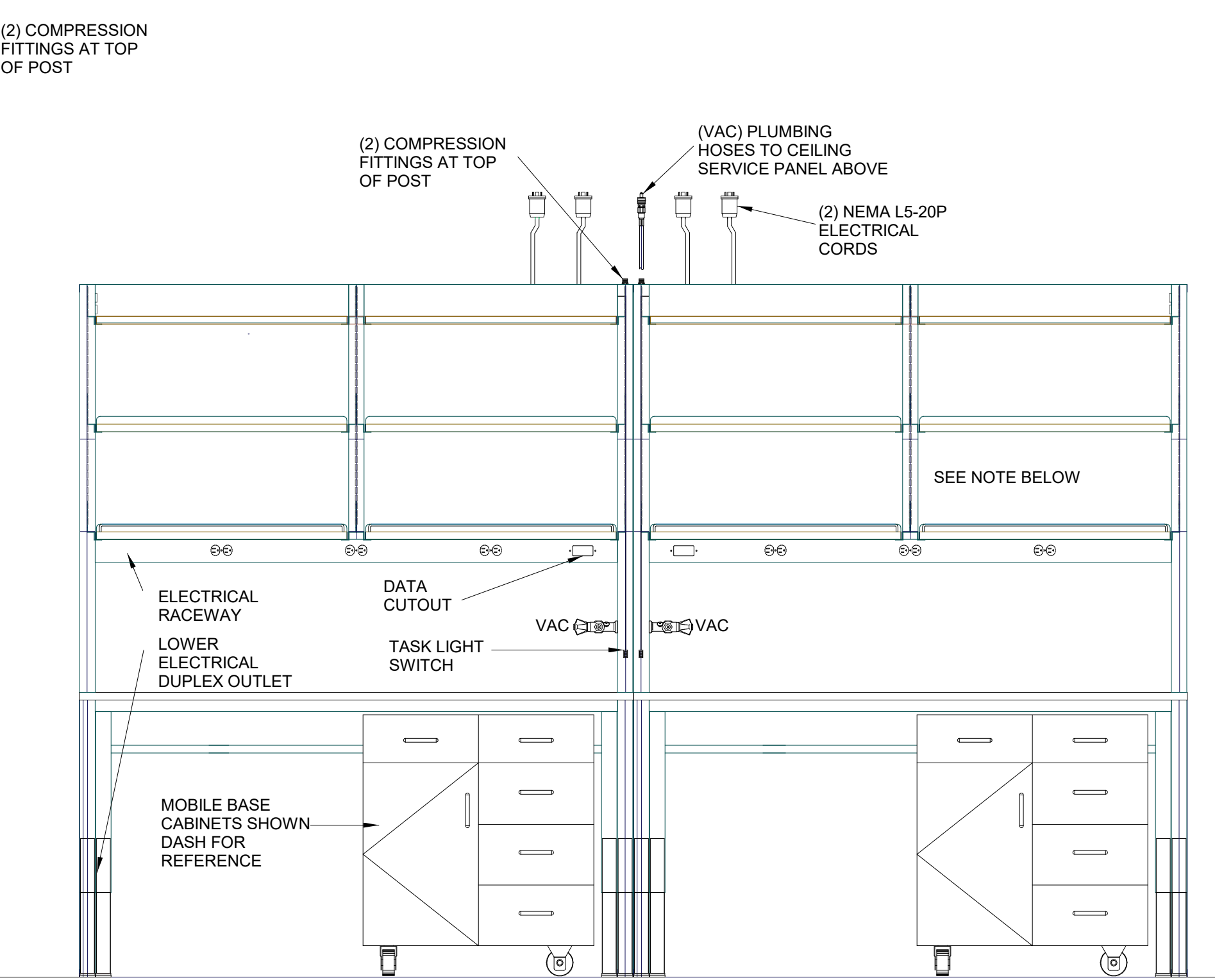
5 TABLE SYSTEM (TS) ELEV.
3/4" = 1'-0"



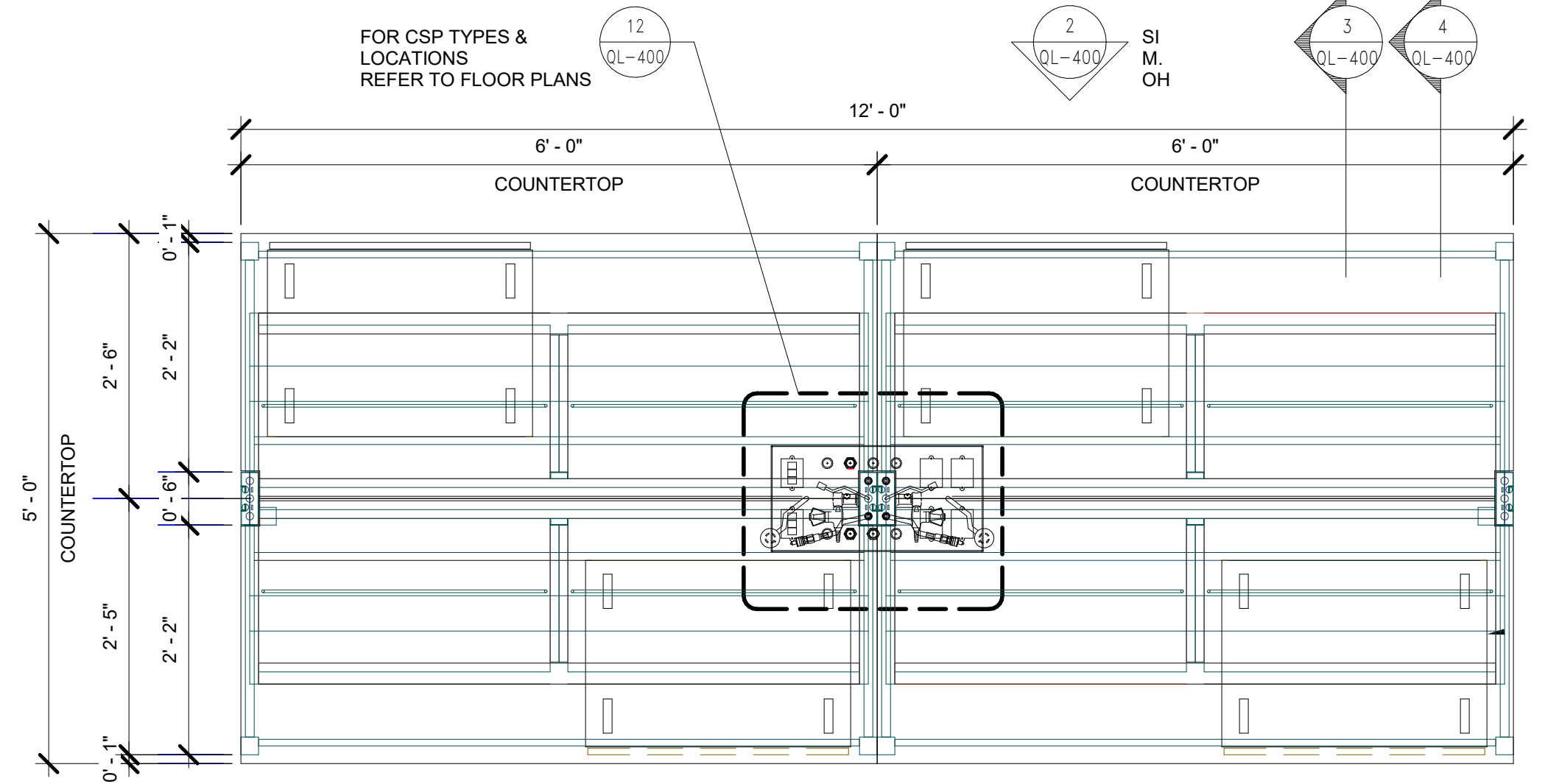
4 TABLE SYSTEM (TS)
3/4" = 1'-0"



3 TABLE SYSTEM (TS) SECTION
3/4" = 1'-0"



2 TABLE SYSTEM (TS) FRONT ELEVATION
3/4" = 1'-0"



1 TABLE SYSTEM (TS) PLAN
3/4" = 1'-0"

NOTE: FOR TABLES CONNECTED TO CSP-6, PROVIDE (1) 208V ELEC. OUTLET & CORD ON ONE SIDE OF THE TABLE.



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(FIT-UP TWO WET LABS)

UK Project Number 2538.0

ISSUANCES

No.	Description	Date
1	Design Release Package #5	12/05/16
2	ASI 054	05/18/17
3	PHASE 2 DD 100%	08/15/18
4	100% CD REVIEW	10/15/18
5	ISSUE FOR BID & PERMIT	11/15/18
6	RECORD DRAWINGS	08/16/19
7	CD ISSUANCE - NIH	04/14/20
8	ISSUE FOR BID & PERMIT	05/01/20
9	BID & PERMIT - NIH	05/22/20

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Project Number

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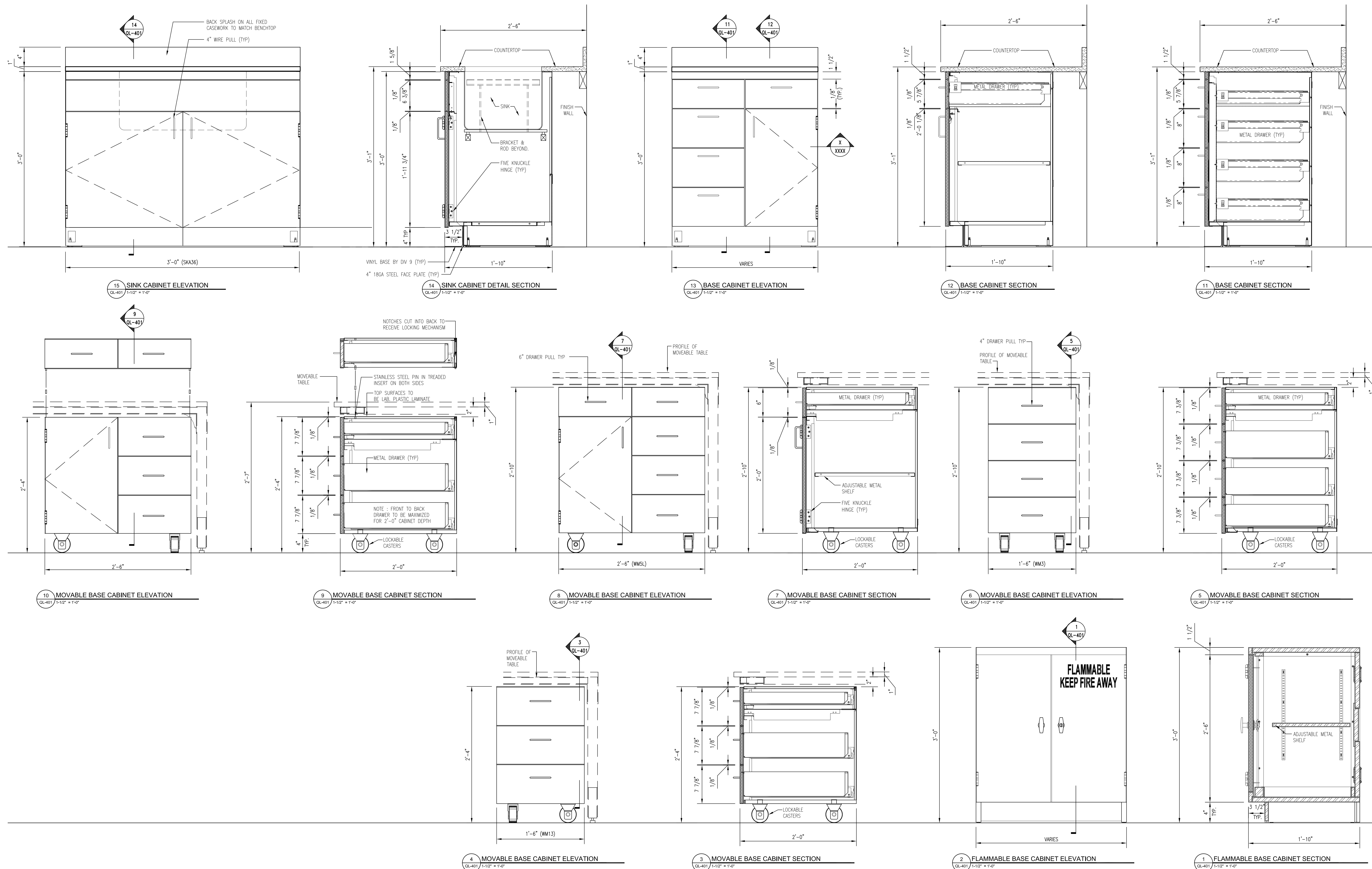
DRAWING

LAB CASEWORK
DETAILS

SHEET NO.

QL-401

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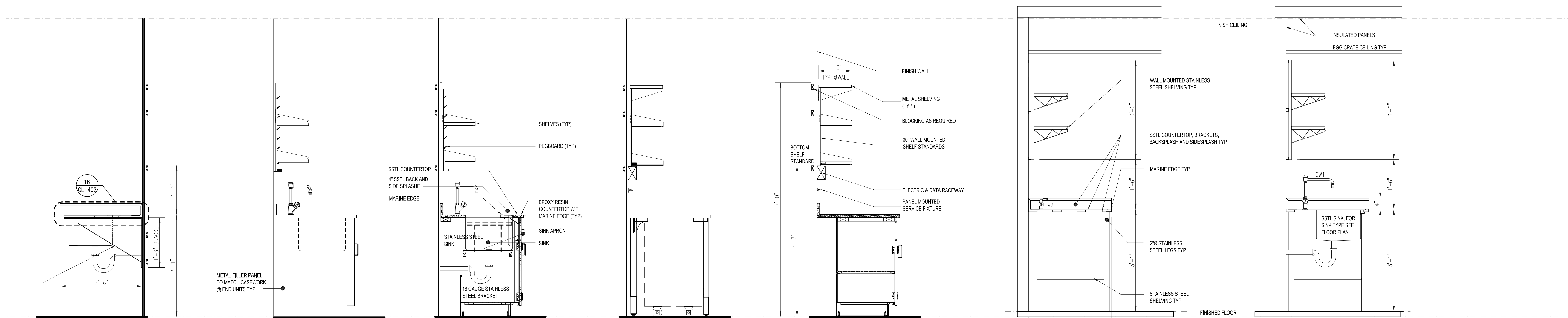
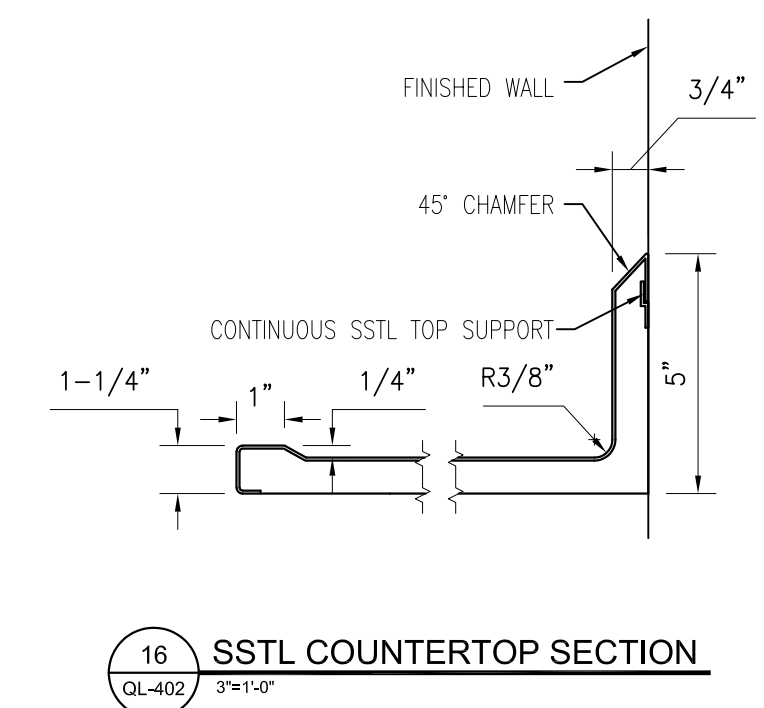
ISSUANCES

No.	Description	Date
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2	PHASE 2 DD 100%	08/15/18
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6	CD ISSUANCE - NIH	04/14/20
7	ISSUE FOR BID & PERMIT	05/01/20
8	BID & PERMIT - NIH	05/22/20

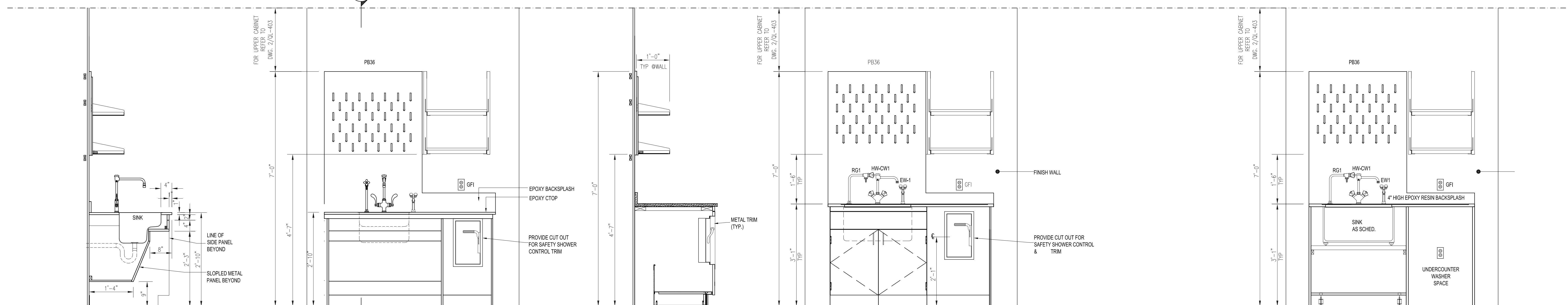
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Client Number 514
Project Number 5350

DRAWING
LAB CASEWORK DETAILS

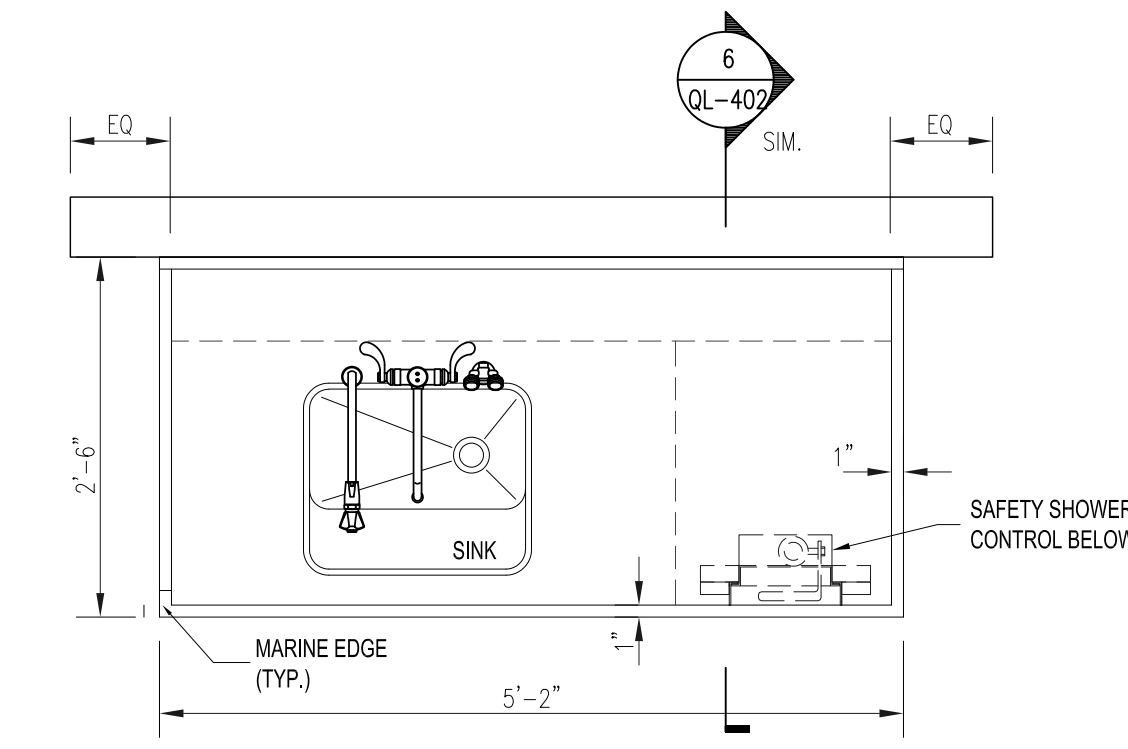
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QL-402



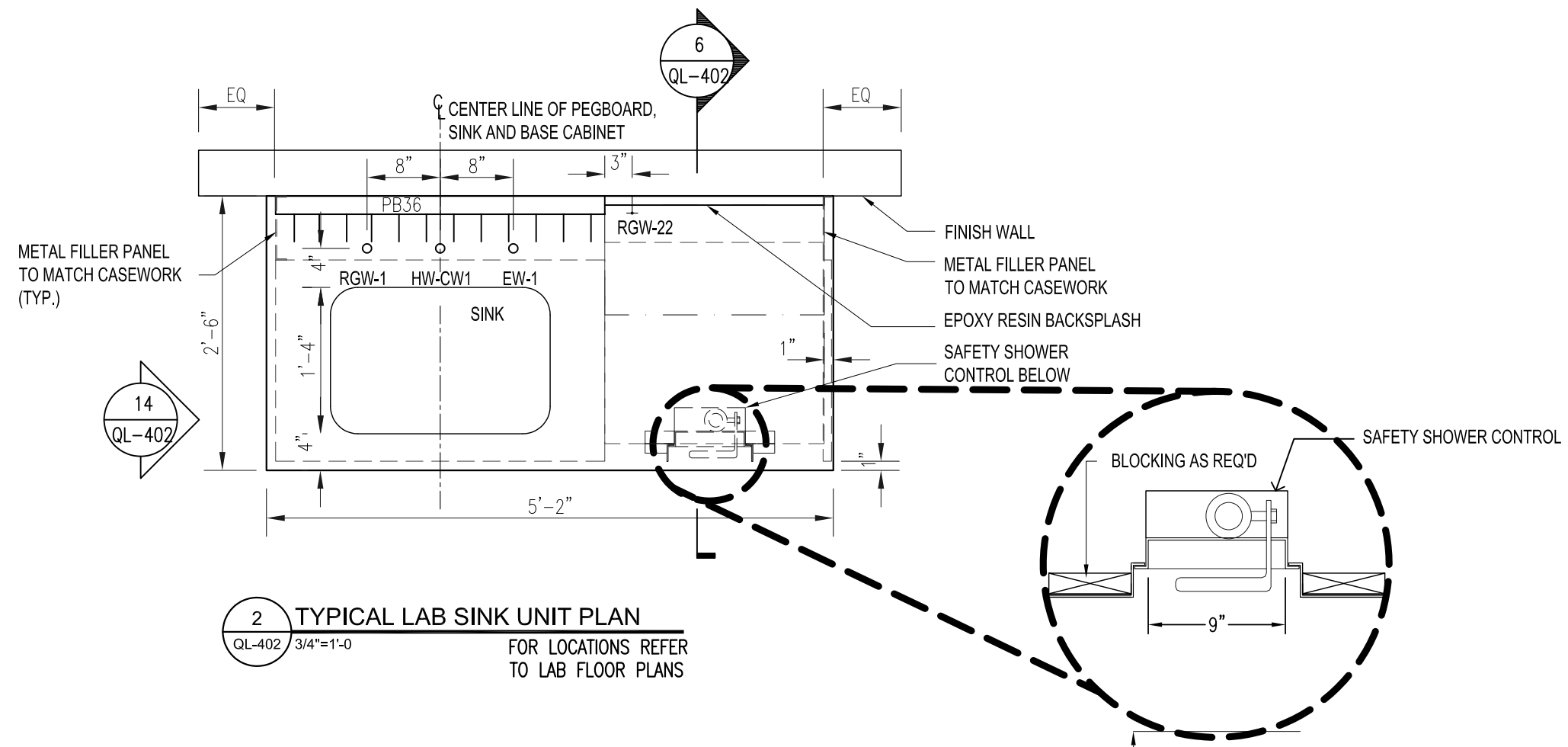
15 SINK UNIT SECTION
14 SINK UNIT ELEVATION
13 SINK UNIT SECTION
12 WALL MOUNTED SHELVING UNIT SECTION WITH MOVABLE TABLE UNDER
11 WALL MOUNTED SHELVING UNIT SECTION WITH BASE CABINET UNDER
10 ENVIRONMENTAL ROOM SECTION
9 ENVIRONMENTAL ROOM SECTION



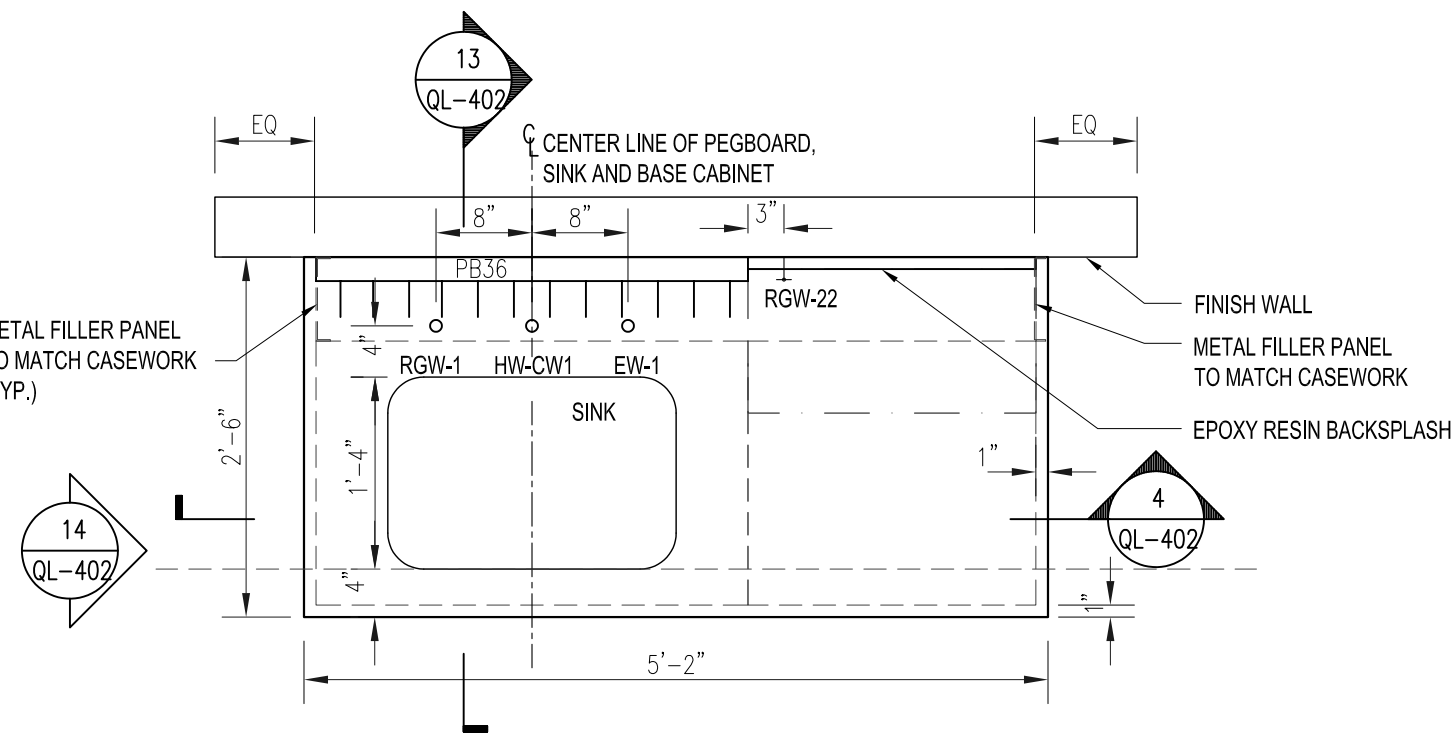
8 ADA SINK UNIT SECTION
7 ADA SINK UNIT ELEVATION @ SAFETY SHOWER LOCATIONS
6 SINK UNIT SECTION @ SINK LOCATIONS
5 SINK UNIT SECTION/ELEVATION @ SAFETY SHOWER LOCATIONS
4 SINK UNIT SECTION/ELEVATION @ UNDERCOUNTER WASHER LOCATIONS



3 TYPICAL ADA LAB SINK UNIT PLAN FOR LOCATIONS REFER TO LAB FLOOR PLANS



2 TYPICAL LAB SINK UNIT PLAN FOR LOCATIONS REFER TO LAB FLOOR PLANS



4 TYPICAL LAB SINK UNIT PLAN FOR LOCATIONS REFER TO LAB FLOOR PLANS

ST. STL. TRIM TO BE PROVIDED BY CASEWORK MANUFACTURER

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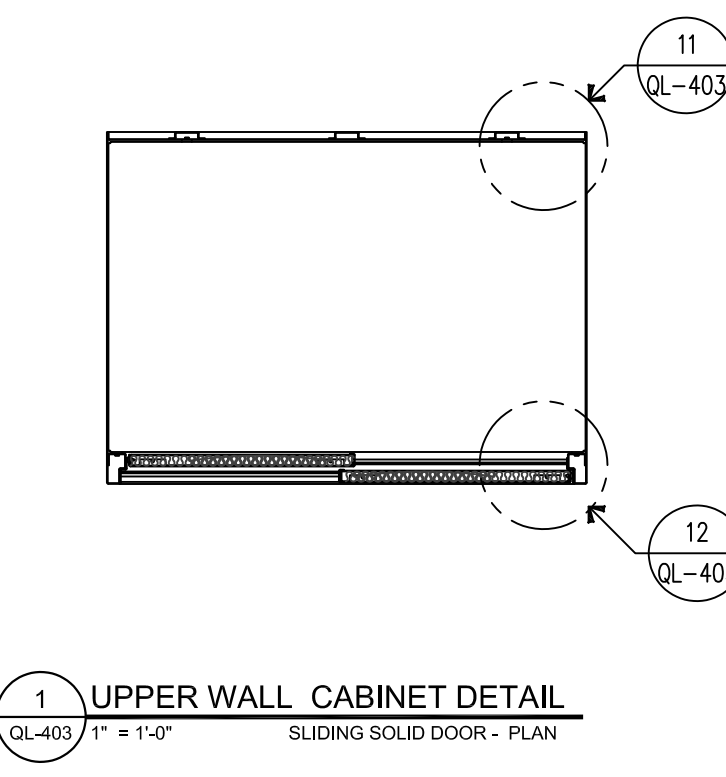
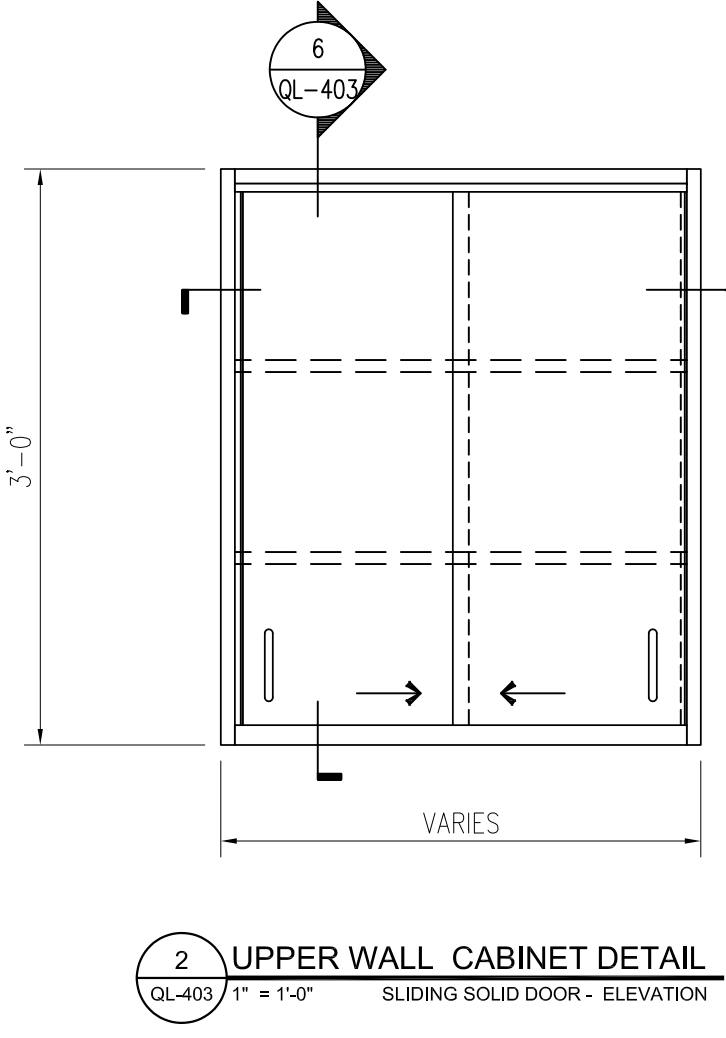
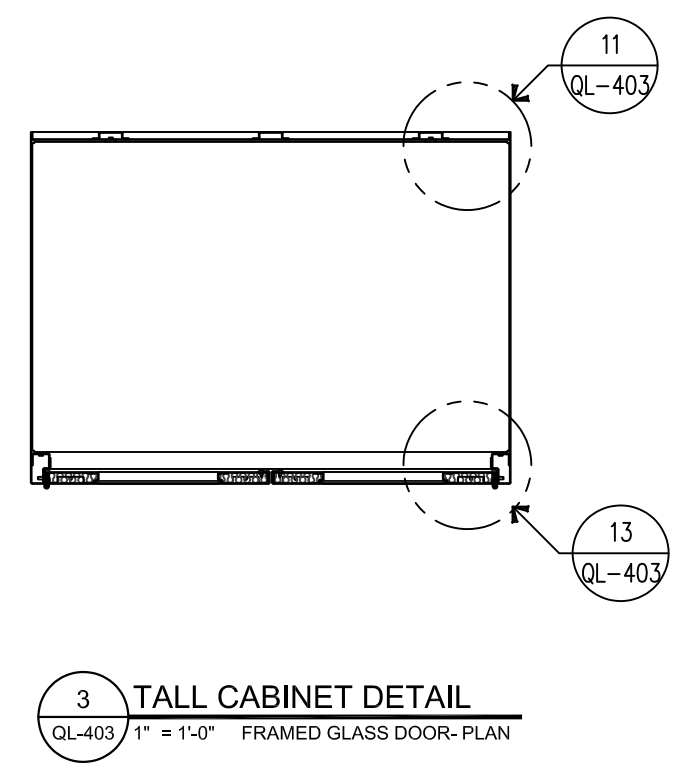
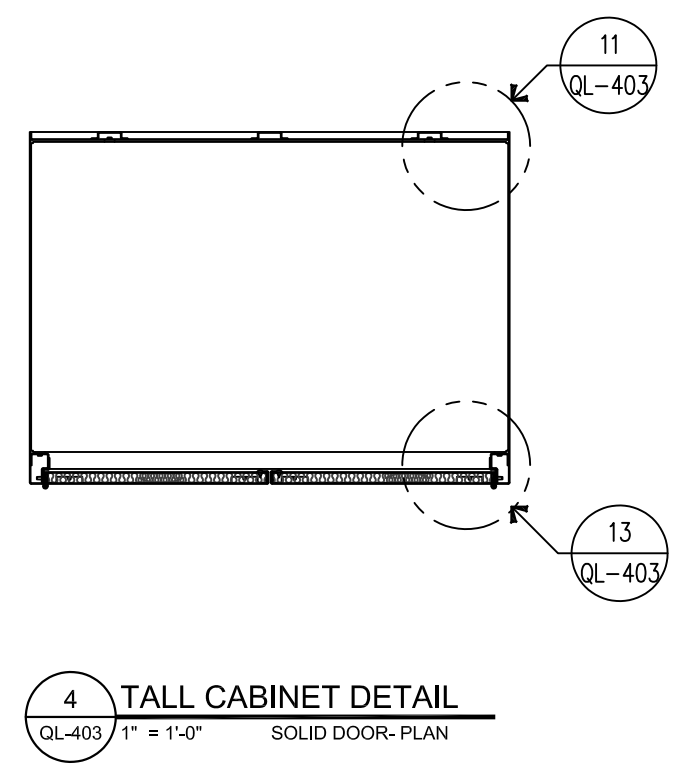
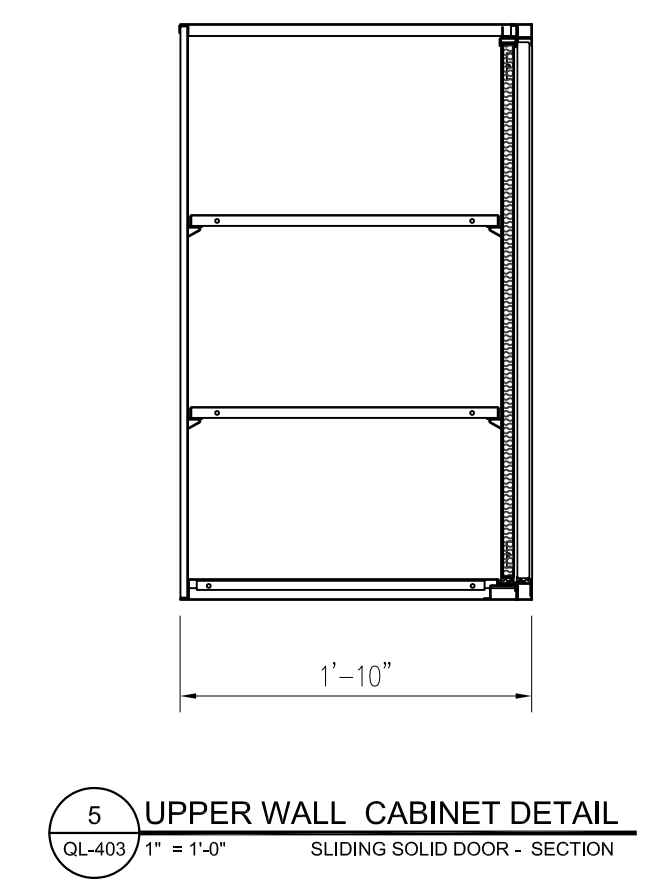
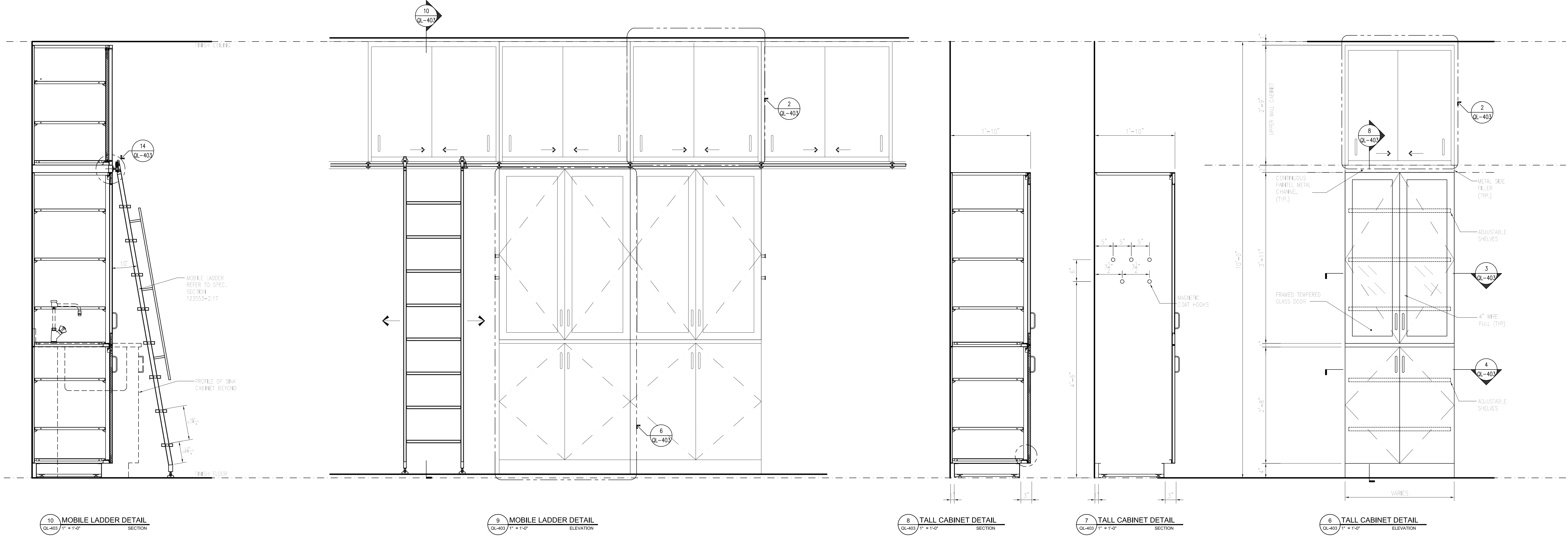
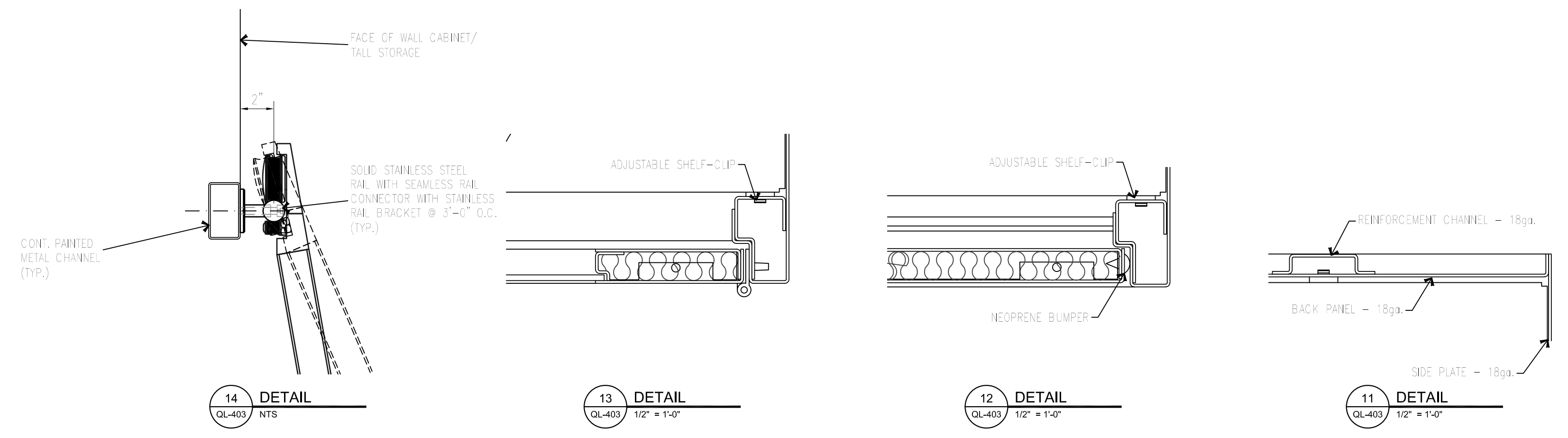
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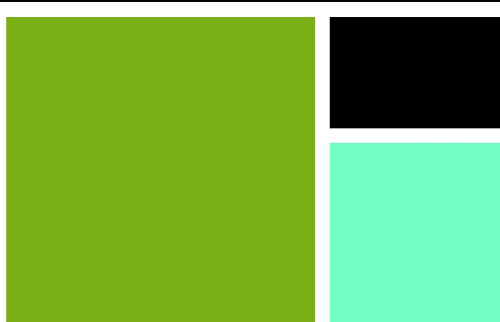
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7	ISSUE FOR BID & PERMIT	05/01/20
8	BID & PERMIT - NIH	05/22/20

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DRAWING
LAB CASEWORK DETAILS

SHEET NO.
QL-403





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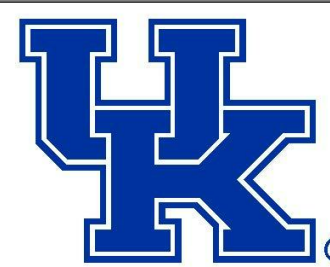
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ISSUANCES

No.	Description	Date
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3	100% CD REVIEW	10/15/18
4	ISSUE FOR BID & PERMIT	11/15/18
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6	CD ISSUANCE - NIH	04/14/20
7	ISSUE FOR BID & PERMIT	05/01/20
8	BID & PERMIT - NIH	05/22/20

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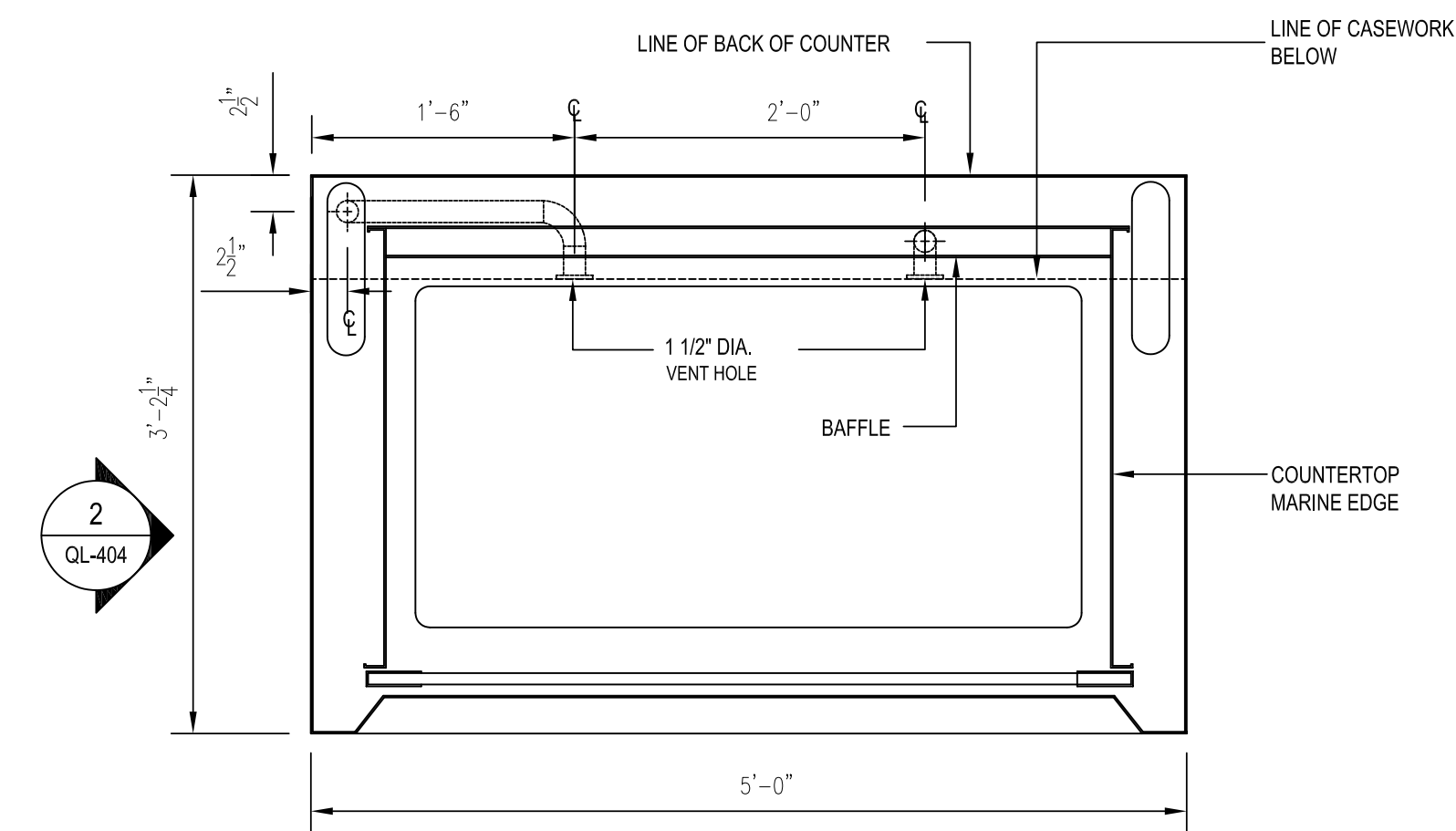
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FUME HOOD DETAILS

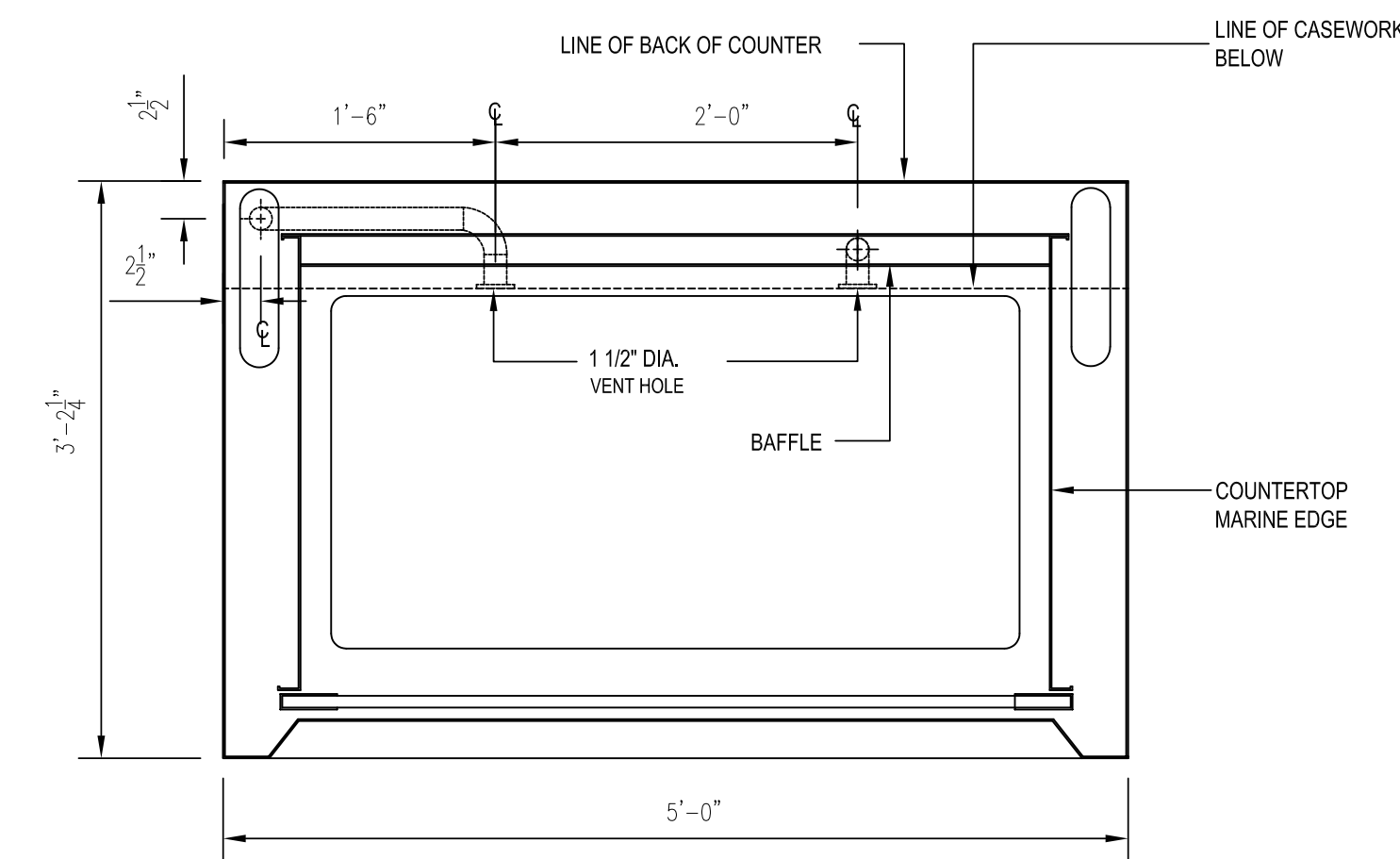
SHEET NO.

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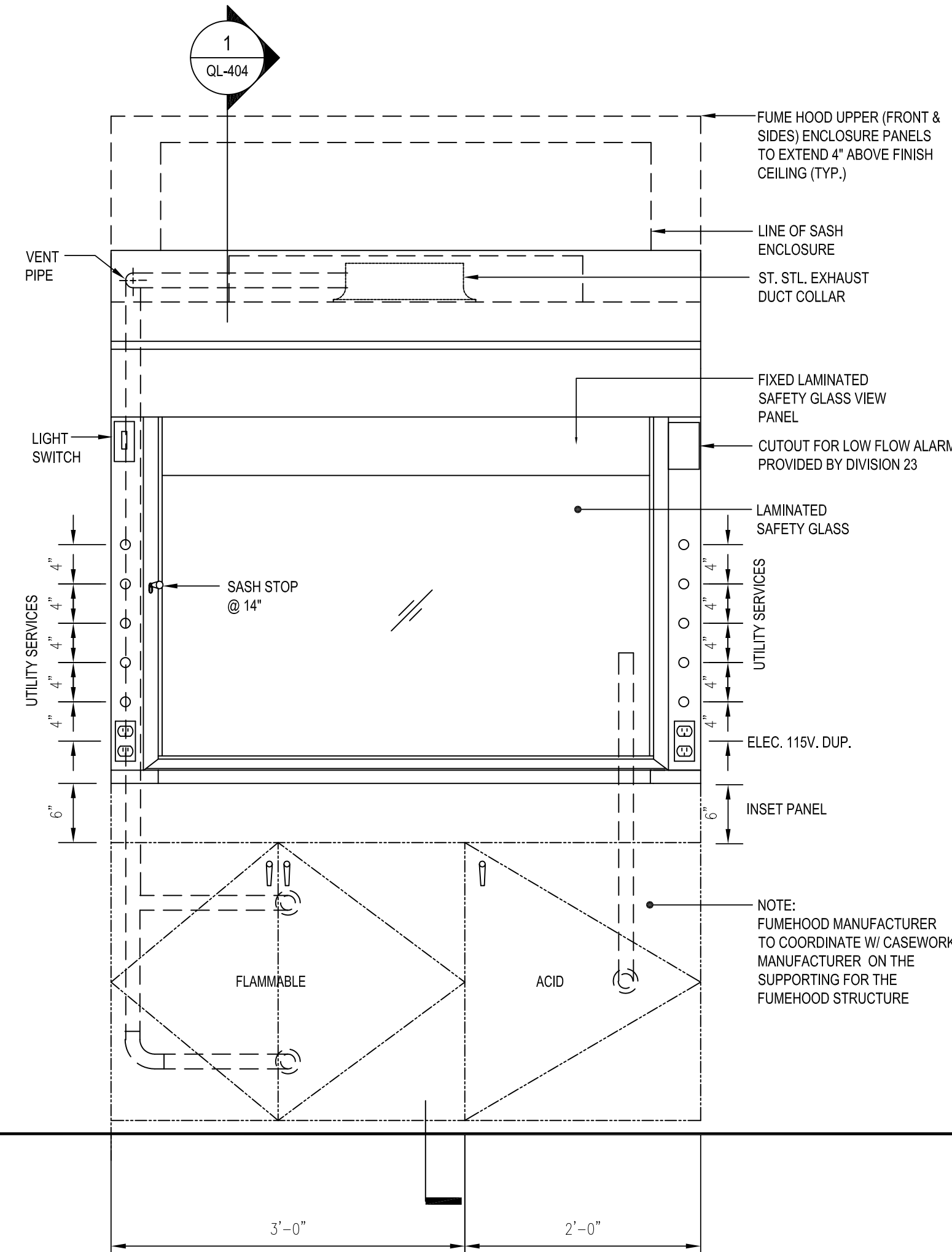
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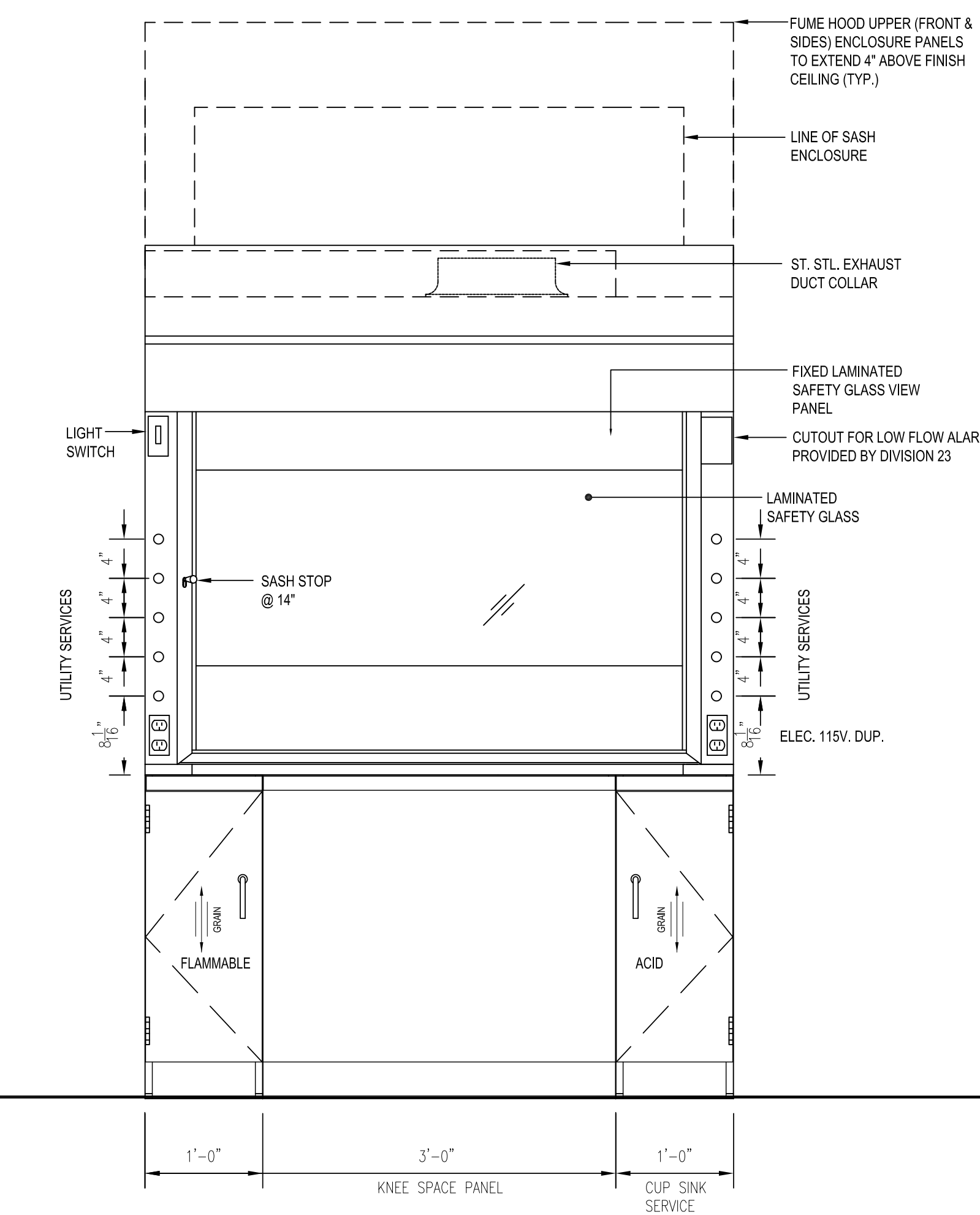
6 FUMS PLAN
QL-404 / 1" = 1'-0"



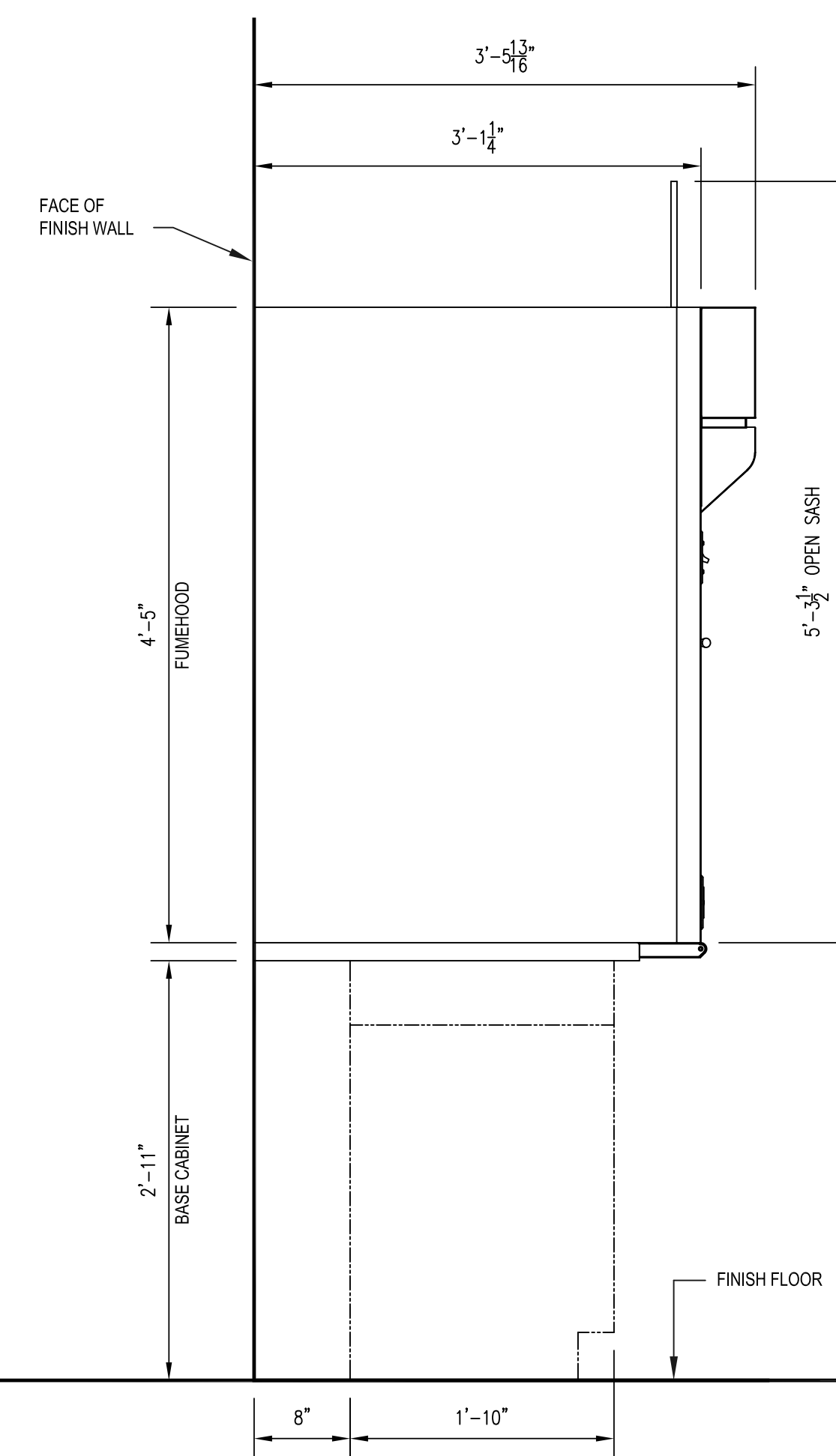
5 FUMS-ADA PLAN
QL-404 / 1" = 1'-0"



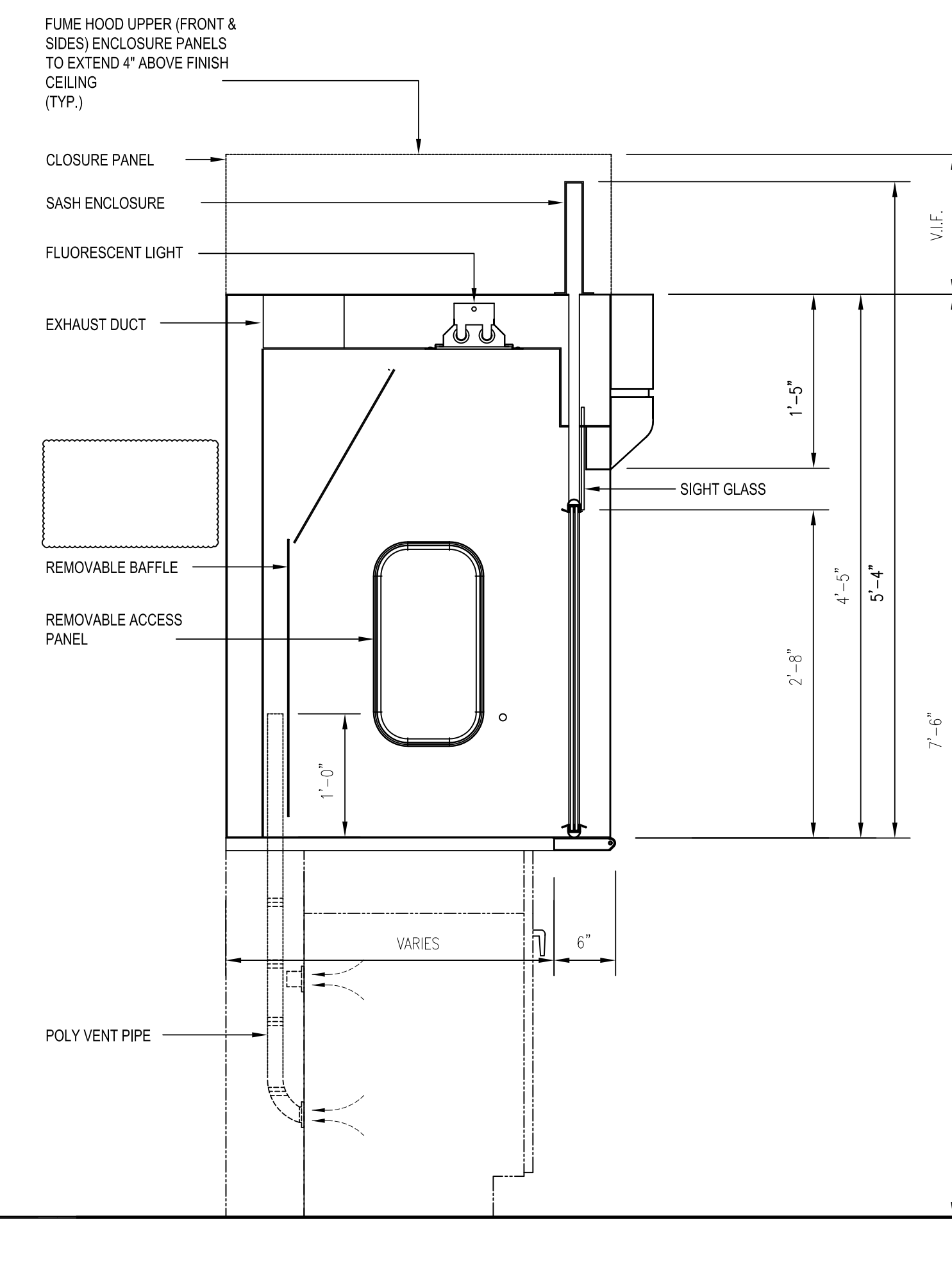
4 FUMS ELEVATION
QL-404 / 1" = 1'-0"



3 FUMS-ADA ELEVATION
QL-404 / 1" = 1'-0"



2 FUME HOOD SIDE ELEVATION
QL-404 / 1" = 1'-0"



1 FUME HOOD SECTION
QL-404 / 1" = 1'-0"

ISSUANCES

No.	Description	Date
1	Phase 2 DD 100%	08/15/18
2	100% CD REVIEW	10/15/18
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4	DD ISSUANCE - NIH	02/05/20
5	CD ISSUANCE - NIH	04/14/20
6	BID & PERMIT - NIH	05/22/20

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RLB

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Client Number

Project Number

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DRAWING

FIRE PROTECTION
LEGEND/SCHEDULES

SHEET NO.

FP-150

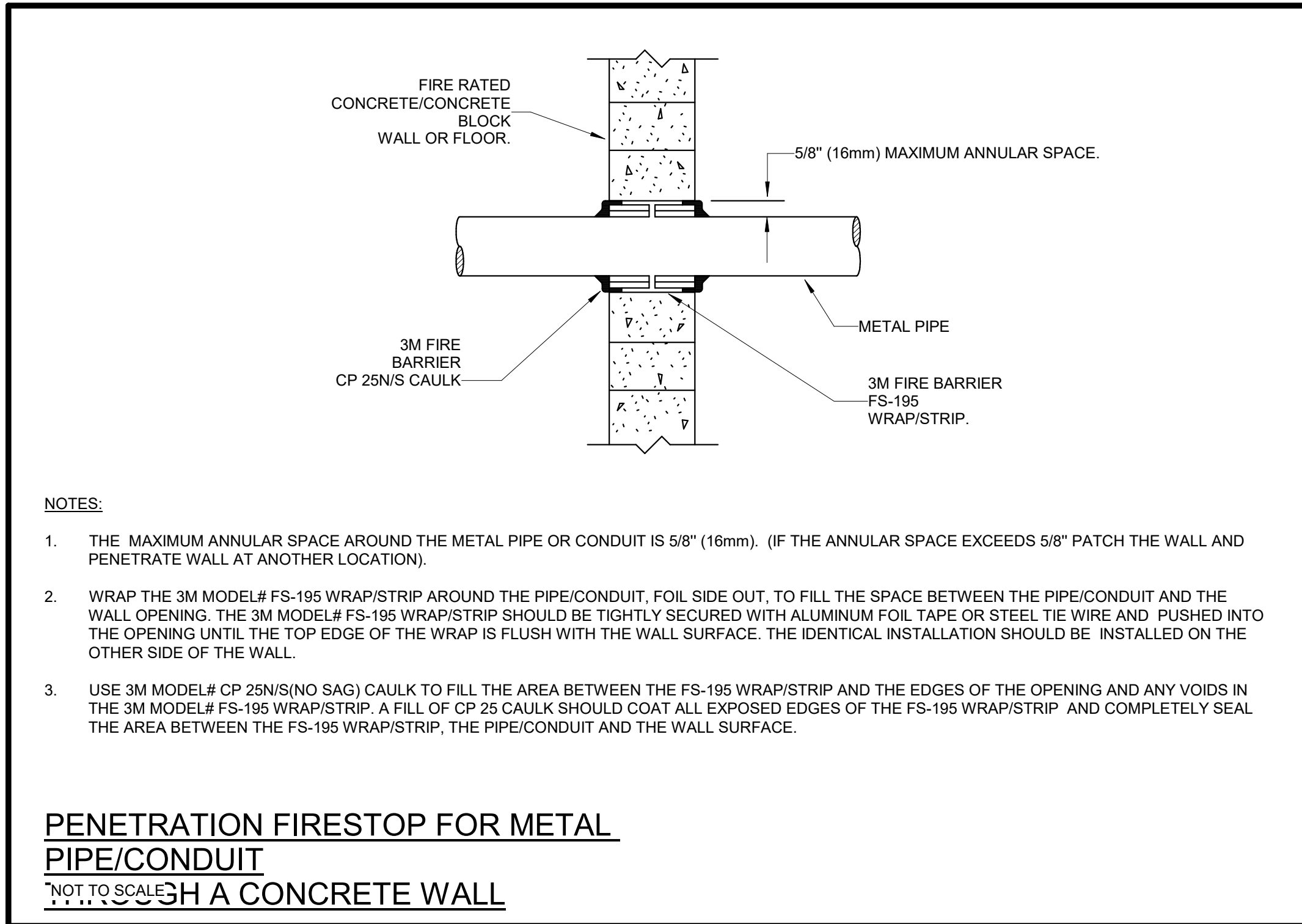
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FIRE PROTECTION LEGEND

"SEMI-RECESSED" SPRINKLER HEAD WITH REMOVABLE ESCUTCHEON PLATE	
UPRIGHT TYPE SPRINKLER HEAD	
SIDEWALL TYPE SPRINKLER HEAD	
FIRE PROTECTION PIPING	
DRY SYSTEM FIRE PROTECTION PIPING	
PREACTION FIRE PROTECTION PIPING	
FIRE VALVE CABINET	
DOUBLE CHECK VALVE	
NEW O.S.&V	
TAMPER SWITCH	
FLOW SWITCH	
PIPING RISE UP	
PIPING DOWN	
CONNECT TO EXISTING	

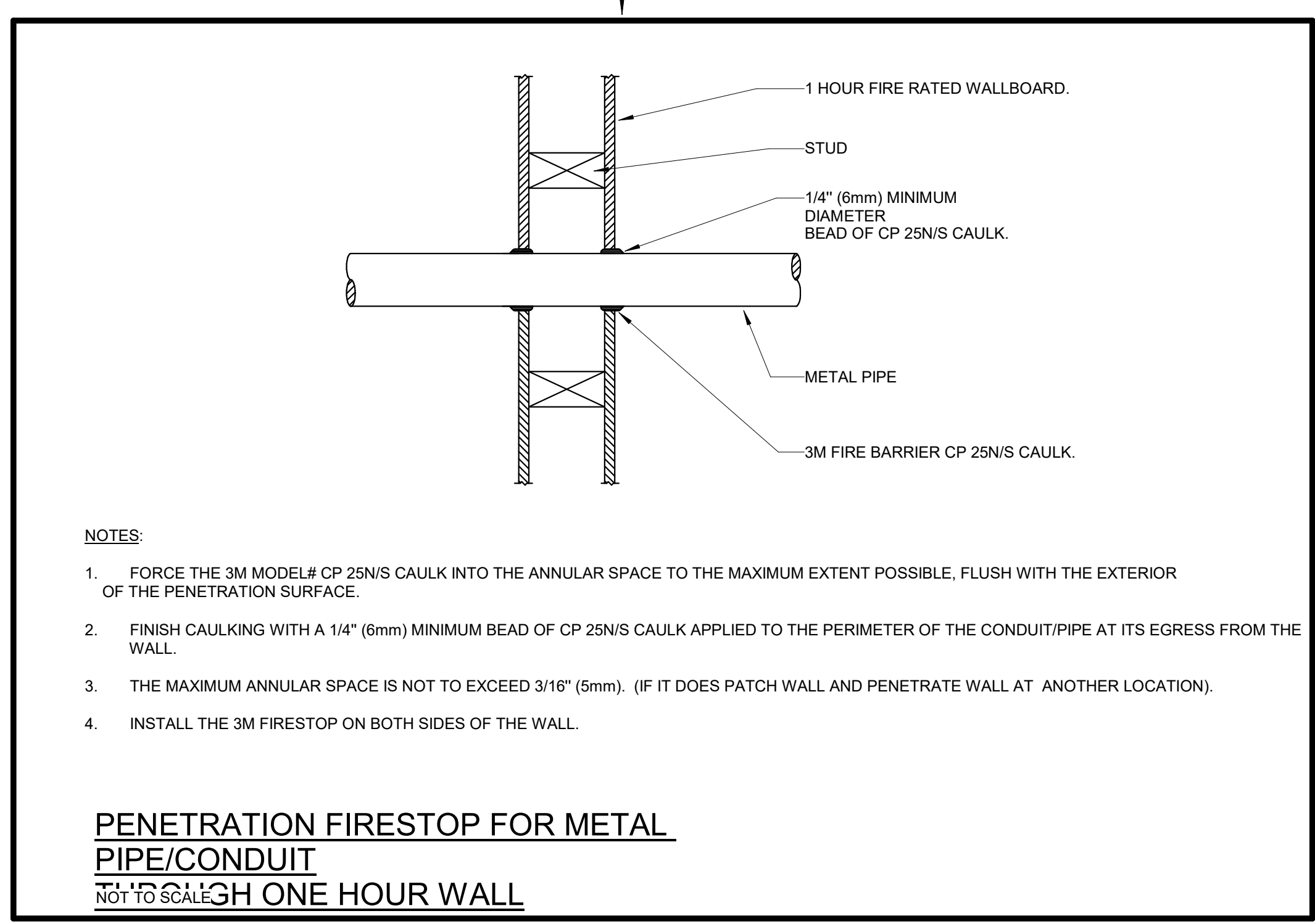
- FIRE PROTECTION DESIGN NOTES:**
- ALL AREAS SHALL BE 100% COVERED WITH A FIRE PROTECTION SYSTEM DESIGNED IN ACCORDANCE WITH NFPA 13. THE OUTLINED AREA SHALL BE PROTECTED WITH A WET TYPE SYSTEM UNLESS NOTED OTHERWISE.
 - THE SUCCESSFUL FIRE PROTECTION CONTRACTOR SHALL OBTAIN AND UTILIZE THE ARCHITECTURAL REFLECTED CEILING PLAN FOR LAYING OUT THE SPRINKLER HEADS. THE REFLECTED CEILING PLANS SHOWN ARE TO COORDINATE CEILING TYPES AND LOCATIONS. REFER TO THE ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR COORDINATION OF TRADES, STRUCTURE, EQUIPMENT AND CEILING DEVICE LOCATIONS. REFER TO SPECIFICATIONS COORDINATION DRAWINGS REQUIREMENTS.
 - ALL OUTLINED AREAS SHALL HAVE "SEMI-RECESSED" QUICK RESPONSE TYPE SPRINKLER HEADS (UNLESS OTHERWISE NOTED ON THE PLANS). HEADS SHALL BE FED FROM A RETURN BEND ARRANGEMENT.
 - UTILIZE UPRIGHT AND/OR WALL MOUNTED TYPE SPRINKLER HEADS IN AREAS WITHOUT CEILINGS.
 - ALL SPRINKLER HEADS TO BE CENTERED IN BOTH DIRECTIONS OF A 2' x 4' OR 2' x 2' CEILING TILE. REFER TO CEILING GRID DETAILS BELOW.
 - HVAC DUCTWORK MAINS SHALL BE INSTALLED PRIOR TO FIRE PROTECTION PIPING. PROVIDE DRAIN VALVES IN THE FIRE PROTECTION SYSTEM WHERE NECESSARY TO COMPLETELY DRAIN THE SYSTEM.
 - REFER TO THE SPECIFICATIONS FOR THE DIFFERENT SPRINKLER HEAD TYPES.
 - PROVIDE ALL REQUIRED DRAIN PIPING TO TEST FLOW SWITCHES. DISCHARGE DRAIN PIPING TO OUTDOORS OR A FLOOR DRAIN.
 - SIZE ALL FIRE PROTECTION PIPING IN ACCORDANCE WITH NFPA 13. PIPE SIZING SHALL BE ACCOMPLISHED USING HYDRAULIC CALCULATIONS.
 - SUBMIT HYDRAULIC CALCULATIONS AND SYSTEMS DESIGN FOR REVIEW TO THE ME ENGINEER.
 - THE SUCCESSFUL CONTRACTOR SHALL PERFORM A NEW FLOW TEST BEFORE STARTING ANY DESIGN WORK OR CALCULATIONS.
 - WHERE CEILINGS ARE INDICATED ALL SPRINKLER PIPING MUST BE INSTALLED ABOVE CEILINGS. SPRINKLER PIPING MUST BE COORDINATED WITH OTHER TRADES PIPING MUST BE OFFSET TO AVOID CONFLICTS WITH DUCTWORK, CONDUIT, ALL EQUIPMENT, ETC.
 - APPLICABLE CODES THAT SHALL PROVIDE TO DESIGN AND INSTALLATION OF THE FIRE PROTECTION SYSTEM ARE NFPA 13, 20, 25, 45 AND 101.
 - FLEXIBLE HOSE SPRINKLER HEADS ARE NOT ALLOWED.

FLOW DATA
 STATIC PSI: 96
 RESIDUAL PSI: 96
 FLOW: 504 GPM
 DURATION: CONTINUOUS
 DATE & TIME: 09/11/2019
 SOURCE OF WATER: CITY SUPPLY / NEW FIRE PUMP
 SOURCE OF DATA: PUMP MANUFACTURER
 HAZARD: LIGHT & ORDINARY
 OCCUPANCY OF BUILDING: RESEARCH & HIGHER EDUCATION

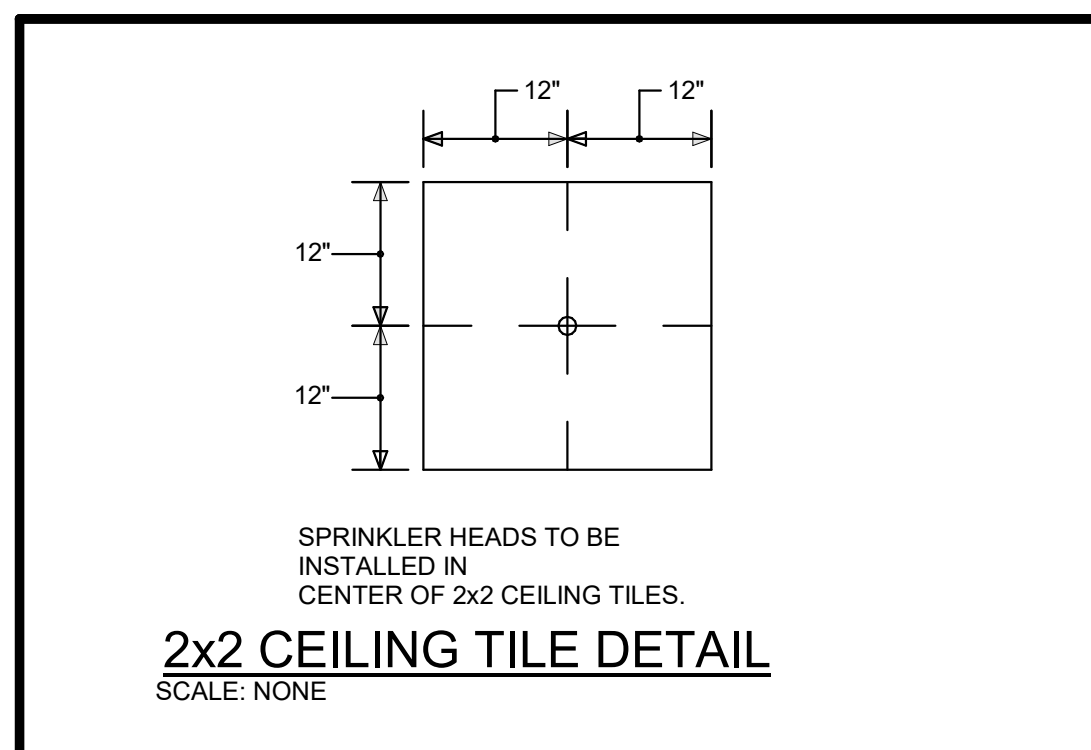
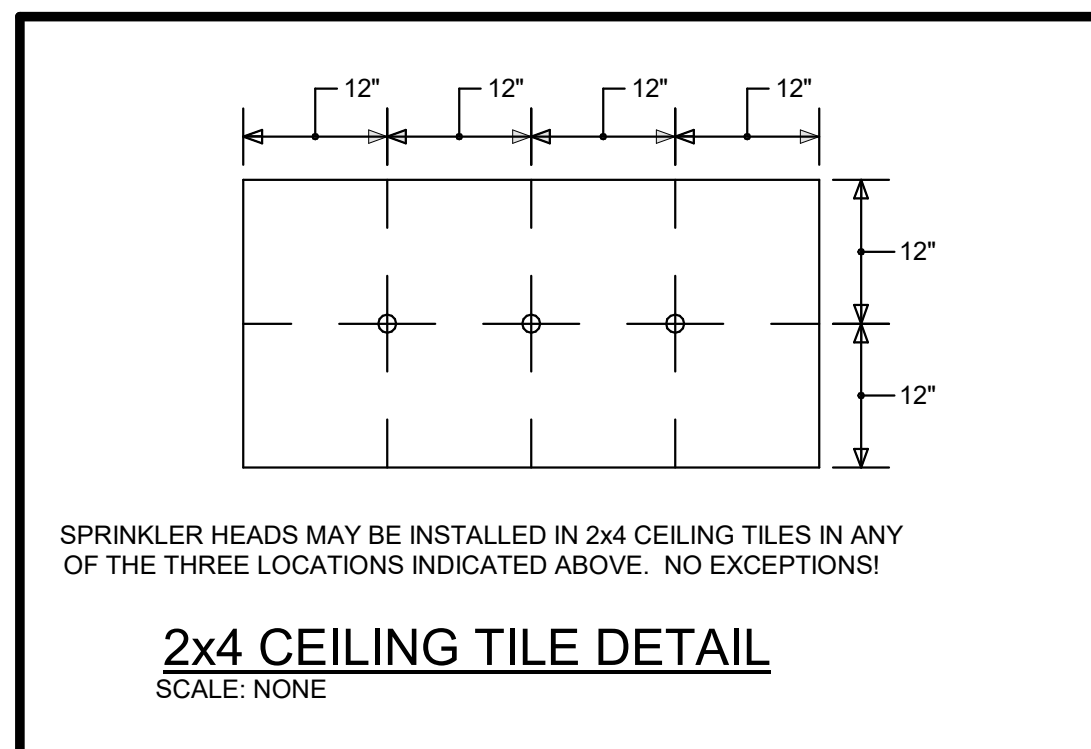


- NOTES:**
- THE MAXIMUM ANNULAR SPACE AROUND THE METAL PIPE OR CONDUIT IS 5/8" (16mm). (IF THE ANNULAR SPACE EXCEEDS 5/8" PATCH THE WALL AND PENETRATE WALL AT ANOTHER LOCATION).
 - WRAP THE 3M MODEL# FS-195 WRAP/STRIP AROUND THE PIPE/CONDUIT, FOIL SIDE OUT, TO FILL THE SPACE BETWEEN THE PIPE/CONDUIT AND THE WALL OPENING. THE 3M MODEL# FS-195 WRAP/STRIP SHOULD BE TIGHTLY SECURED WITH ALUMINUM FOIL TAPE OR STEEL TIE WIRE AND PUSHED INTO THE OPENING UNTIL THE TOP EDGE OF THE WRAP IS FLUSH WITH THE WALL SURFACE. THE IDENTICAL INSTALLATION SHOULD BE INSTALLED ON THE OTHER SIDE OF THE WALL.
 - USE 3M MODEL# CP 25N/S(NO SAG) CAULK TO FILL THE AREA BETWEEN THE FS-195 WRAP/STRIP AND THE EDGES OF THE OPENING AND ANY VOIDS IN THE 3M MODEL# FS-195 WRAP/STRIP. A FILL OF CP 25 CAULK SHOULD COAT ALL EXPOSED EDGES OF THE FS-195 WRAP/STRIP AND COMPLETELY SEAL THE AREA BETWEEN THE FS-195 WRAP/STRIP, THE PIPE/CONDUIT AND THE WALL SURFACE.

- FIRE STOPPING NOTES:**
- FIRE STOPPING IS CRITICAL AND MUST BE ACCOMPLISHED. ALL PIPES MUST BE FIRE STOPPED WHERE THEY PENETRATE FIRE RESISTIVE, FIRE RATED, AND SMOKE RESISTIVE WALLS OR FLOORS. ALL FLOORS, CORRIDOR WALLS, STAIR WALLS, MECHANICAL ROOM WALLS, STORAGE ROOM WALLS AND OTHER HAZARDOUS ROOM WALLS ARE ONE HOUR RATED.
 - A FOUR-HOUR TRAINING SESSION SHALL BE CONDUCTED BY MANUFACTURER OF THE FIRESTOPPING MATERIAL. THIS SHALL BE DONE PRIOR TO THE INSTALLATION OF THE MATERIAL. CONTACT HOSPITAL ENGINEER AND CMTA TO ADVISE OF DATE AND TIME OF THIS MEETING.
 - ALL PENETRATIONS WILL BE REVIEWED BY THE HOSPITAL ENGINEER OR CMTA. PRIOR TO INSPECTION, ALL CEILING TILES BENEATH THE PENETRATIONS SHALL BE REMOVED BY THE CONTRACTOR.



- NOTES:**
- FORCE THE 3M MODEL# CP 25N/S CAULK INTO THE ANNULAR SPACE TO THE MAXIMUM EXTENT POSSIBLE, FLUSH WITH THE EXTERIOR OF THE PENETRATION SURFACE.
 - FINISH CAULKING WITH A 1/4" (6mm) MINIMUM BEAD OF CP 25N/S CAULK APPLIED TO THE PERIMETER OF THE CONDUIT/PIPE AT ITS EGRESS FROM THE WALL.
 - THE MAXIMUM ANNULAR SPACE IS NOT TO EXCEED 3/16" (5mm). (IF IT DOES PATCH WALL AND PENETRATE WALL AT ANOTHER LOCATION).
 - INSTALL THE 3M FIRESTOP ON BOTH SIDES OF THE WALL.



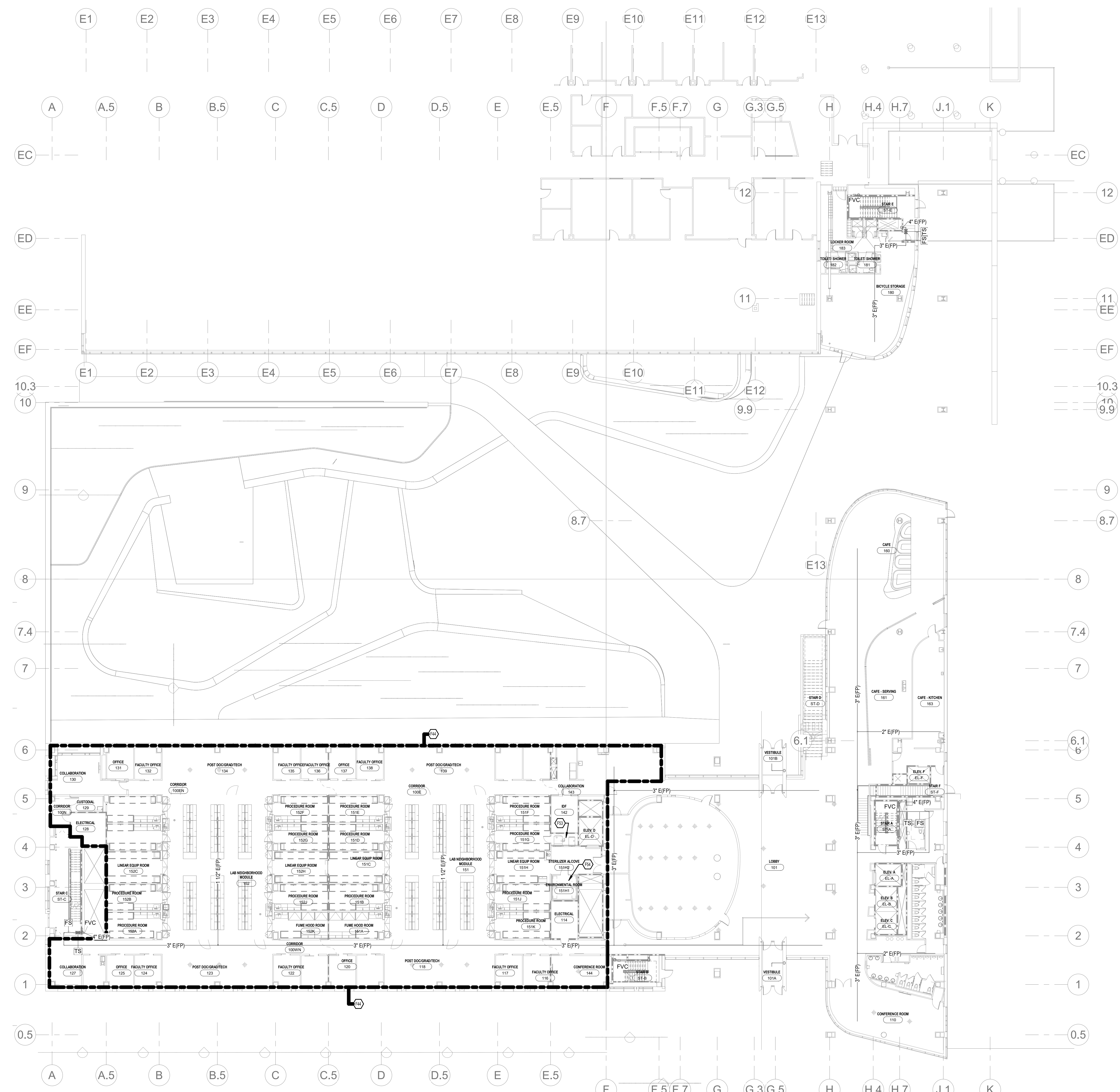


ISSUANCES

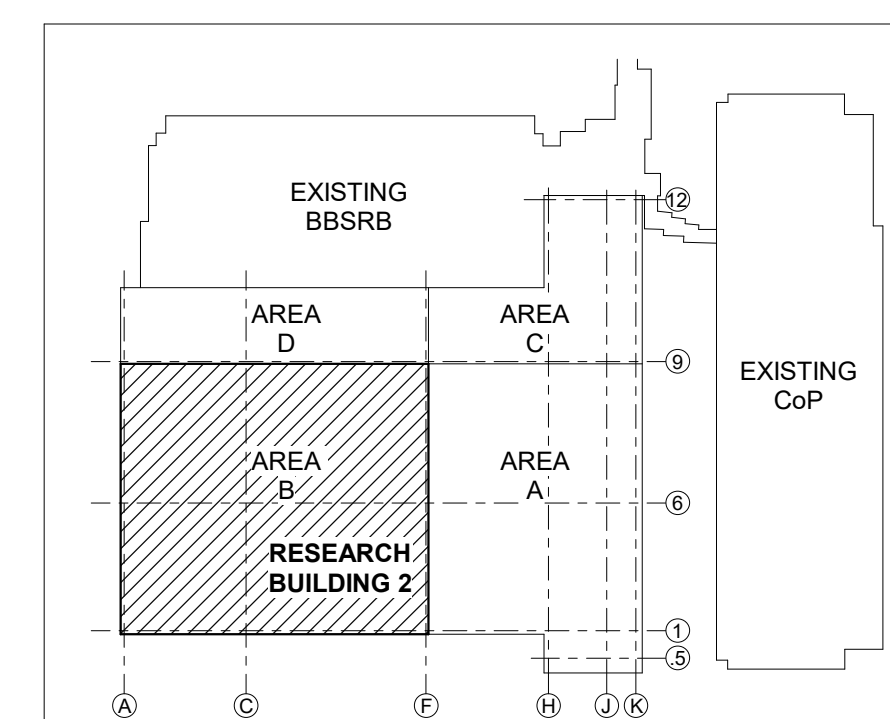
No.	Description	Date
1	Phase 2 DD 100%	08/15/18
2	100% CD REVIEW	10/15/18
3	ISSUE FOR BID & PERMIT	11/15/18
4	DD ISSUANCE - NIH	02/05/20
5	CD ISSUANCE - NIH	04/14/20
6	BID & PERMIT - NIH	05/22/20

FIRE PROTECTION TAGGED NOTES

F4	STAND PIPE UP AND DOWN.
F44	EXISTING AREA IS CURRENTLY COVERED BY A 100% SPRINKLER SYSTEM. REMOVE EXISTING UP-RIGHT SPRINKLER HEADS. PROVIDE NEW EXTENDED COVERAGE CONCEALED SPRINKLER HEADS IN NEW CEILINGS. COORDINATE LOCATIONS WITH LIGHT FIXTURES AND CEILING MOUNTED MECHANICAL EQUIPMENT. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS OF NEW CEILING.
F53	PROVIDE HIGH TEMPERATURE SPRINKLER HEADS OVER TOP OF STERILIZERS.
F54	PROVIDE FREEZE PROOF SPRINKLER HEADS IN ENVIRONMENTAL COLD ROOM.



1 FIRE PROTECTION PHASE 2 FITOUT - LEVEL 01
1/16" = 1'-0"



KEY PLAN
NTS

Drawn By
RLB

Checked By
CMR

Client Number

Project Number
UKR15

DRAWING
LEVEL 01 PHASE 2
FITOUT - FIRE
PROTECTION

SHEET NO.
FP-251

PLUMBING FIXTURE SCHEDULE - NIH					
MARK	DESCRIPTION	CW	HW	WASTE	VENT
P-4A	SINGLE COMPARTMENT LAB SINK: SINGLE COMPARTMENT LAB SINK AND FAUCET BY CASEWORK SUPPLIER AND INSTALLED BY PLUMBING CONTRACTOR. PROVIDE 3/8" SUPPLIES WITH ANGLE STOPS, ACID WASTE DRAIN AND TAILPIECE AND ESCUTCHEONS. PROVIDE WITH ACID WASTE BOTTLE TRAP. TRAP SHALL BE EQUAL TO IPEX W011 UNIVERSAL TRAP WITH TRANSPARENT BASE.	1/2"	1/2"	2"	2"
P-6A	SINGLE COMPARTMENT SINK: SINGLE COMPARTMENT STAINLESS STEEL SINK, UNDERMOUNTED, 19"x21" O.D., 14"x18" I.D., 6 1/2" DEEP, 18 GAUGE, WITH 4" CENTERS. PROVIDE WITH 9" REACH SWING SPOUT GOOSENECK FAUCET WITH 4" WRIST BLADE CONTROL HANDLES, REAR CENTERED GRUMB CUP STRAINER DRAIN, 38° ANGLE SUPPLIES WITH STOPS, KENTUCKY CODE P-TRAP, TAILPIECE AND ESCUTCHEONS.	1/2"	1/2"	2"	2"
P-9	MOP BASIN: 24"x36"x10" HIGH MOLDED STONE MOP SERVICE BASIN, IN WHITE DRIFT COLOR, 3" DRAIN, SERVICE FAUCET WITH THREADED HOSE CONNECTION SPOUT, HOSE AND HOSE BRACKET, AND VINYL BUMPERGUARD. THE DRAIN SHALL BE LOCATED 12" TO THE CENTER. PROVIDE INDEPENDENT CHECK VALVES IN THE HOT AND COLD WATER SUPPLIES.	3/4"	3/4"	3"	2"
P-10	VACUUM OUTLET: SUPPLIED BY LAB EQUIPMENT SUPPLIER. INSTALLATION AND CONNECTION TO VACUUM PIPING SYSTEM REQUIRED.			-	-
P-10A	FUME HOOD VACUUM OUTLET: SUPPLIED BY LAB EQUIPMENT SUPPLIER. INSTALLATION AND CONNECTION TO VACUUM PIPING SYSTEM REQUIRED.			-	-
P-11	REVERSE OSMOSIS FAUCET: SUPPLIED BY LAB EQUIPMENT SUPPLIER. INSTALLATION AND CONNECTION TO REVERSE OSMOSIS PIPING SYSTEM REQUIRED.	1"	1"	-	-
P-12	EMERGENCY SHOWER: SUPPLIED BY LAB EQUIPMENT SUPPLIER. INSTALLATION AND CONNECTION TO TEMPERED WATER PIPING SYSTEM REQUIRED.	1"	1"	-	-
P-15	WATER SUPPLY WALL BOX: IPS FR12M SERIES METAL ICE MAKER BOX, 5-1/4"x5-1/4" RECESSED FIRE RATED METAL VALVE BOX, WITH A SINGLE LEAD FREE QUARTER TURN VALVE WITH 1/2" SWEAT CONNECTION INLET AND 1/4" COMPRESSION OUTLET.	1/2"	-	-	-
P-15A	WATER SUPPLY WALL BOX WITH VACUUM BREAKER: IPS FR12M SERIES METAL ICE MAKER BOX, 5-1/4"x5-1/4" RECESSED FIRE RATED METAL VALVE BOX, WITH A SINGLE LEAD FREE QUARTER TURN VALVE WITH 1/2" SWEAT CONNECTION INLET AND 1/4" COMPRESSION OUTLET. PROVIDE WITH WALL MOUNTED VACUUM BREAKER FITTING AND IN-LINE WATER FILTER AND MAKE FINAL CONNECTION TO ICE MAKER.	1/2"	-	-	-
P-16	WASHER BOX: RECESSED 20 GAUGE METAL WASHER BOX WITH 1/2" HW AND CW QUARTER TURN VALVES AND 2" DRAIN. PROVIDE WITH WATER HAMMER ARRESTORS IN SUPPLY LINES.	1/2"	1/2"	2"	2"

GENERAL NOTES

- COORDINATE THE LOCATION OF DRAINS, GAS OUTLETS, ETC., WITH ALL CASEWORK EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC., PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE CONTRACTOR.
- THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO INSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. VERIFY THE LOCATION, SIZE, TYPE, ETC., OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORD WITH ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARD AND SAFETY REQUIREMENTS. UTILITIES SHALL BE INSTALLED IN ACCORD WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY.
- WHERE WORK IS REQUIRED ABOVE EXISTING LAY-IN, PLASTER OR GYPSUM BOARD CEILINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION (OR REPLACEMENT, IF DAMAGED) OF ALL CEILING OR TILE AND GRID MEMBERS NECESSARY TO PERFORM HIS WORK. NEW TILE AND GRID SHALL MATCH THE SURROUNDING AREAS. ALL PATCHING WORK SHALL MATCH ADJACENT SURFACES.
- ALL NEW WORK SHALL BE HUNG FROM STRUCTURE, NOT FROM THE WORK OF OTHER TRADES, WHETHER EXISTING OR NEW.
- COORDINATE ALL WORK WITH PROJECT PHASING REQUIREMENTS.
- PATCH, REPAIR AND PAINT OR PROVIDE WALL COVERING FOR (TO OWNER'S STANDARDS) EXISTING WALLS, CEILINGS, ETC., THAT ARE TO REMAIN IF DAMAGED DURING CONSTRUCTION. REPAIRS SHALL MATCH ADJACENT SURFACES TO THE SATISFACTION OF THE ARCHITECT AND OWNER.
- IN ACCORDANCE WITH K.R.S. ALL PLUMBING WORK SHALL BE CONSTRUCTED IN COMPLIANCE WITH PLANS APPROVED BY AND BEARING THE APPROVAL STAMP OF THE KENTUCKY DIVISION OF PLUMBING AND OR THE DIVISION OF WATER. THE CONTRACTOR SHALL NOT BEGIN WORK UNTIL HE HAS RECEIVED SUCH APPROVED PLANS.
- OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT (CITY, COUNTY, LOCAL, FEDERAL, MUNICIPALITY, UTILITY COMPANY, COMMONWEALTH OF KENTUCKY, ETC.).
- THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COMPANY FEES OR OTHER COSTS THAT ANY UTILITY COMPANY MAY REQUIRE TO COMPLETE THEIR WORK (GAS, SEWER, WATER, ETC.).
- CONTRACTOR SHALL BE AWARE OF UNSEEN PLUMBING WORK DURING DEMOLITION. IF ITEMS ARE UNCOVERED DURING DEMOLITION THEN FIELD VERIFY THE USE OF THE ITEMS AND PLAN AN ALTERNATE ROUTE TO RUN THESE ITEMS, THEN CONTACT THE ENGINEERS TO REVIEW THE ROUTING.
- IF AREA OF CONSTRUCTION HAS A POST TENSION FLOOR SLAB, CONTRACTOR SHALL USE ULTRA SOUND OR OTHER APPROVED METHODS TO SURVEY THE EXISTING FLOOR STRUCTURE BEFORE MAKING ANY AND ALL FLOOR PENETRATIONS.
- WHERE FIRE PROOFING IS SPRAYED ON EXISTING STRUCTURE ALL EXISTING CONDUITS, WATER, HYDRONIC, STEAM, CHILLED WATER, FIRE PROTECTION LINES, MED GAS, ETC. SHALL BE LOWERED TO BE BELOW FULL THICKNESS OF FIRE PROOFING WITH NO INTERFERENCE.
- ALL PENETRATIONS OF FIRE AND SMOKE RATED ASSEMBLIES SHALL BE APPROPRIATELY FIRE STOPPED PER AN APPROVED U.L. LISTED STANDARD. CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO INSULATED PIPING PENETRATIONS.
- ALL WORK REQUIRING DOWNTIME OF ANY AREA IN THE BUILDING SHALL BE SCHEDULED 2 WEEKS IN ADVANCE, AND SHALL COMPLY WITH INTERIM LIFE SAFETY MEASURES.
- ALL PIPING IN ROOMS WITH CEILINGS SHALL BE ABOVE CEILING EXCEPT AS NOTED.
- LOCATIONS OF PIPING AND EQUIPMENT ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. DO NOT SCALE THE DRAWINGS.
- ALL OFFSETS IN PIPING ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL OFFSETS WHERE NECESSARY.
- INSTALL ALL PIPING AND EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTION. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENGINEERS PRIOR TO INSTALLATION FOR CLARIFICATION. PROVIDE RECOMMENDED ACCESS AND SERVICE CLEARANCES FOR ALL EQUIPMENT.
- SEAL AIRTIGHT AROUND ALL DUCTS AND PIPING PENETRATIONS THROUGH WALLS, FLOORS AND ROOF. PROVIDE FIRE STOPPING IN FIRE PARTITION.
- THE CONTRACTOR SHALL RELOCATE OR AVOID ANY EXISTING EQUIPMENT APPURTENANCES, ETC., THAT CONFLICT WITH NEW WORK.
- WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEERS BEFORE INSTALLATION. REFER ALSO TO ARCHITECTURAL WALL INTERIOR AND EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS AND OTHER DETAIL OF THESE DOCUMENTS.
- DEVIATIONS IN SIZE, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT USED AS BASIS OF DESIGN SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEERS OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.
- VALVES OR ANY PLUMBING ITEM REQUIRING ACCESS SHALL NOT BE LOCATED ABOVE A HARD CEILING. IF THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED ACCESS DOOR SHALL BE PLACED UNDER THE ITEM TO ALLOW EASY MAINTENANCE AND ADJUSTMENT. ADDITIONALLY ALL SUCH ITEMS SHALL NOT BE LOCATED AN UNREASONABLE DISTANCE ABOVE THE CEILINGS. IN GENERAL ALL SUCH ITEMS UNLESS INDICATED OTHERWISE SHALL BE MOUNTED SIX TO TWELVE INCHES ABOVE THE CEILING. IF IN DOUBT, CONTACT ENGINEER PRIOR TO INSTALLING.
- ALL MANHOLES, VAULTS AND SIMILAR UNDERGROUND STRUCTURES SHALL HAVE THE TOP ELEVATION SET FLUSH WITH FINISHED GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.
- WHEN RUNNING ANY TYPE OF PIPING BELOW A FOOTER, OR IN THE ZONE OF INFLUENCE THE PIPING SHALL BE BACKFILLED WITH CEMENTIOUS FLOWABLE FILL PER SPECIFICATIONS. WHERE POSSIBLE, LOCATE PIPING OUTSIDE OF THE ZONE OF INFLUENCE. THE ZONE OF INFLUENCE IS THE AREA UNDER THE FOOTER WITHIN A 45 DEGREE ANGLE PROJECTING DOWN FROM THE BOTTOM EDGE OF THE FOOTER OF ALL SIDES OF THE FOOTER. ADDITIONALLY, GREASE TRAPS, MANHOLES, VAULTS, AND OTHER UNDERGROUND STRUCTURES SHALL BE HELD AWAY FROM BUILDING WALLS FAR ENOUGH TO BE OUTSIDE OF THE ZONE OF INFLUENCE.
- ALL PLUMBING SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE KENTUCKY PLUMBING CODE 2017 EDITION.

SYMBOLS AND ABBREVIATIONS

NOTE: NOT ALL SYMBOLS AND ABBREVIATIONS NECESSARILY USED ON THIS PROJECT.

	VACUUM BREAKER	A	COMPRESSED AIR
	PIPE ELBOW TURNING UP/TURNING DOWN	AFF	ABOVE FINISHED FLOOR
	CONNECT TO EXISTING (VERIFY EXACT LOCATION)	AFR	ABOVE FINISHED ROOF
	BALANCING VALVE	AWS	ANIMAL WATER SUPPLY
	UNION	CI.	CAST IRON
	PETE'S PLUG	CO2	CARBON DIOXIDE
	CHECK VALVE	CO2 VT	CARBON DIOXIDE MANIFOLD RELIEF VENT PIPE
	DOUBLE CHECK VALVE ASSEMBLY	DCW	DOMESTIC COLD WATER
	STRAINER	DCW-M	METERED DOMESTIC COLD WATER FOR IRRIGATION SUPPLY
	O & Y VALVE (GATE)	DHW	DOMESTIC HOT WATER
	PRESSURE REDUCING VALVE (STEAM, GAS, WATER, ETC.)	DN	DOWN
	BALL VALVE	FHV	FIRE HOSE VALVE WITH CABINET
	SAFETY RELIEF VALVE	FPWH	FREEZE PROOF WALL HYDRANT
	THERMOMETER	FM	FORCE MAIN
	PRESSURE SWITCH	FW	FILTERED DOMESTIC COLD WATER
	TAMPER SWITCH	HB	HOSE BIBB
	FLOW SWITCH	IAW	IN ACCORDANCE WITH
	SANITARY WASTE PIPING	ID	INSIDE DIMENSION
	SANITARY WASTE PIPING TO GREASE TRAP	IE	INVERT ELEVATION
	FORCED MAIN	MH	MANHOLE
	VENT PIPING	NTS	NOT TO SCALE
	DOMESTIC COLD WATER PIPING	NC	NOT IN CONTRACT
	DOMESTIC SOFT HOT WATER SUPPLY	NO	NORMALLY OPEN
	DOMESTIC RECIRCULATING HOT WATER	NC	NORMALLY CLOSED
	ROOF LEADER PIPING	O, OX	OXYGEN
	OVERFLOW ROOF LEADER PIPING	OX	OXYGEN MANIFOLD RELIEF VENT PIPE
	STORM SEWER PIPING	OD	OUTSIDE DIMENSION
	FIRE PROTECTION PIPING	OR	OPEN RECEPCTACLE
	FIRE PROTECTION DRY PIPING	ORL	OVERFLOW ROOF LEADER
	ANIMAL WATER SUPPLY PIPING	PRV	PRESSURE REDUCING VALVE (STEAM, WATER, OR GAS)
	FILTER DOMESTIC COLD WATER	PSI	POUNDS PER SQUARE INCH
	REVERSE OSMOSIS WATER SUPPLY PIPING	DHWR	DOMESTIC RECIRCULATING HOT WATER
	REVERSE OSMOSIS WATER RETURN PIPING	RL	ROOF LEADER
	SOFT COLD WATER PIPING	SCW	SOFT DOMESTIC COLD WATER
	HELIUM GAS PIPING	SVB	SHUT-OFF ZONE VALVE BOX
	HYDROGEN GAS PIPING	SR	SANITARY RISER
	NITROGEN GAS PIPING	TB	THRUST BLOCK
	COMPRESSED AIR PIPING	TE	TOP ELEVATION
	VACUUM PIPING	TP	TRAP PRIMER
	VACUUM EXHAUST PIPING	TYP	TYPICAL
	OXYGEN PIPING	UON	UNLESS OTHERWISE NOTED
	CARBON DIOXIDE PIPING	V, VAC	VACUUM
	LAB WASTE PIPING	VTR	VENT THRU ROOF
	LAB WASTE VENT PIPING	WH	WATER HEATER
	TPWD PIPING	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
	GAS PIPING	CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
	EXISTING PIPING OR DUCTWORK (THIN LINE)	OFDI	OWNER FURNISHED, OWNER INSTALLED
	MECHANICAL EQUIPMENT DESIGNATOR		
	PIPING TEE (TURNED UP/DOWN)		
	CLEANOUT IN CEILING SPACE		
	FLOOR CLEANOUT		
	EXTERIOR CLEANOUT		
	FLOOR DRAIN DESIGNATOR		
	ROOF DRAIN DESIGNATOR		
	PLUMBING FIXTURE DESIGNATOR		
	TEMPERATURE SENSOR		

NOTE:

ALL PLUMBING PIPING INSTALLED IN THIS PACKAGE SHALL BE SUPPORTED FROM THE STRUCTURAL SLAB AS DETAILED ON DRAWINGS AND AS CALLED OUT IN THE PLUMBING SPECIFICATIONS.

NOTE:

WORK IN CONFINED AREAS SHALL BE IN ACCORDANCE WITH THE OWNER'S SAFETY POLICY REQUIREMENTS.

ISSUANCES

No.	Description	Date
1	DD ISSUANCE - NIH	02/05/20
2	CD ISSUANCE - NIH	04/14/20
3	BID & PERMIT - NIH	05/22/20

Drawn By

RLB

Checked By

KDM

Client Number

UKR15

Project Number

UKR15

DRAWING

PLUMBING LEGEND

SHEET NO.

P-151



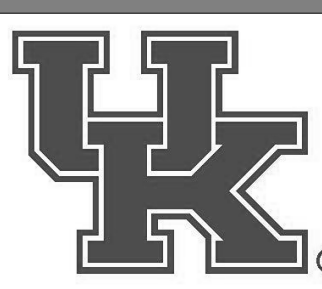
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HGA

JACOBS Consultancy

AEI Affiliated Engineers

CMTA



HEALTHY KENTUCKY
RESEARCH BUILDING

UNIVERSITY OF
KENTUCKY
LEXINGTON, KY

CONSTRUCT
RESEARCH BUILDING
(FIT-UP TWO WET LABS)

UK Project Number 2538.0

ISSUANCES

No.	Description	Date
1	P2 - Addendum #2	01/22/19
2	P2 - Addendum #5	02/28/19
3	DD ISSUANCE - NIH	02/05/20
4	CD ISSUANCE - NIH	04/14/20
5	BD & PERMIT - NIH	05/22/20

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RLB

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CMR

Client Number

Project Number

UKR15

DRAWING

LEVEL 01 PHASE 2

FITOUT AREA 'B'

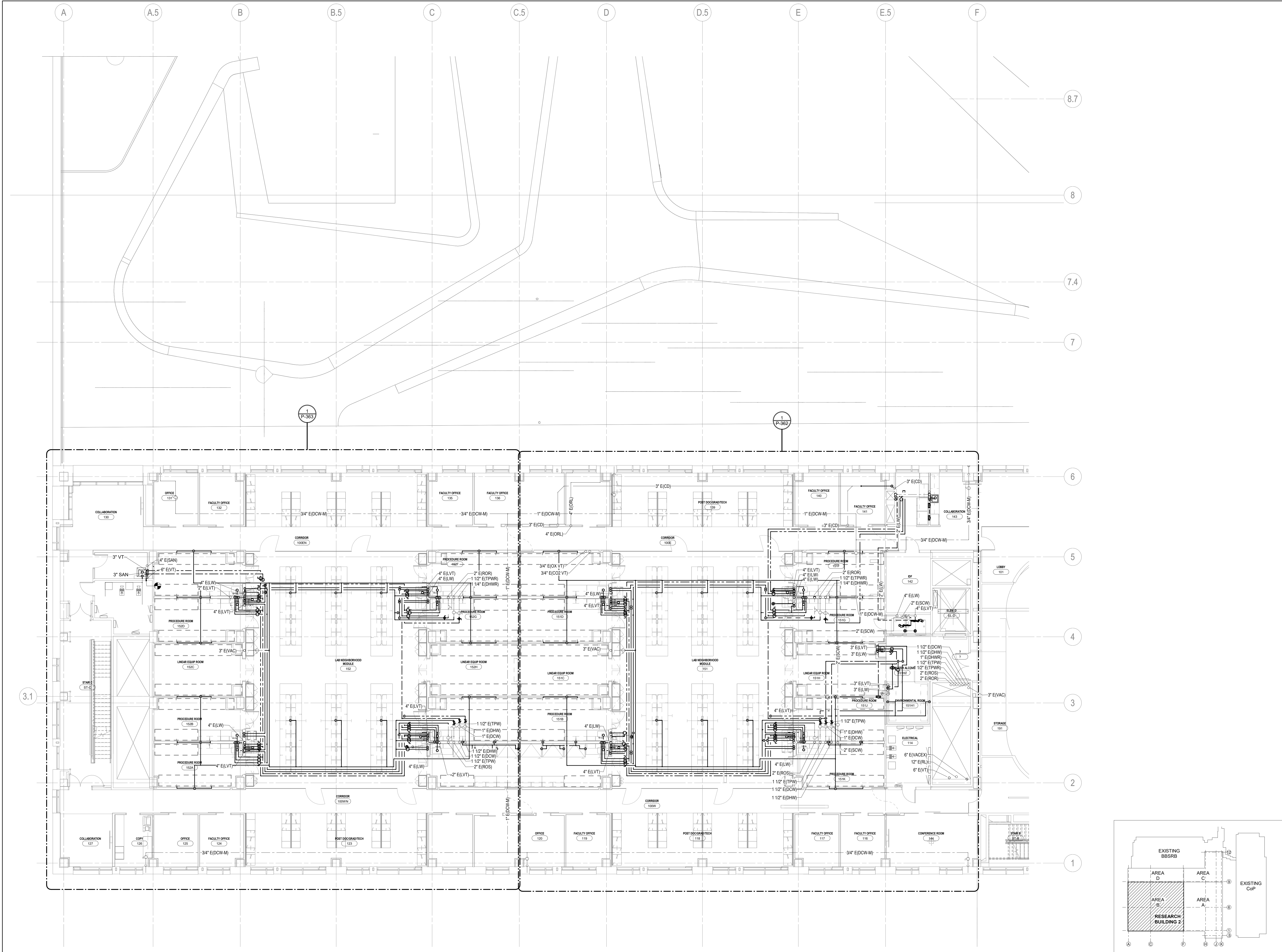
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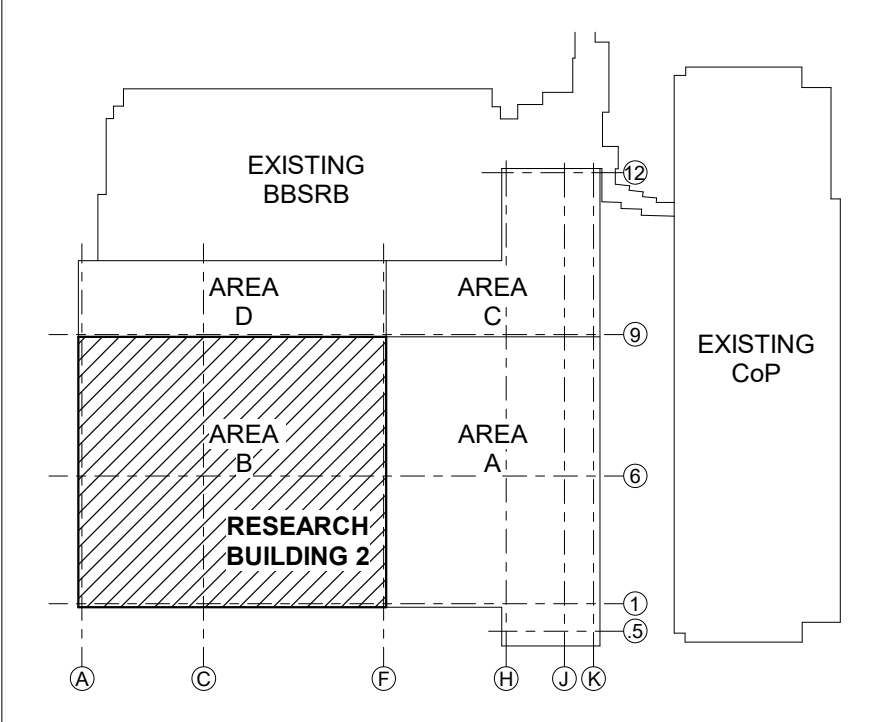
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NTS

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1 PLUMBING - LEVEL 01 AREA B - PHASE 2
1/8" = 1'-0"



KEY PLAN
NTS

ISSUANCES

No.	Description	Date
1	DD ISSUANCE - NIH	02/05/20
2	CD ISSUANCE - NIH	04/14/20
3	BID & PERMIT - NIH	05/22/20

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Project Number
UKR15

DRAWING

ENLARGED LAB PLAN -

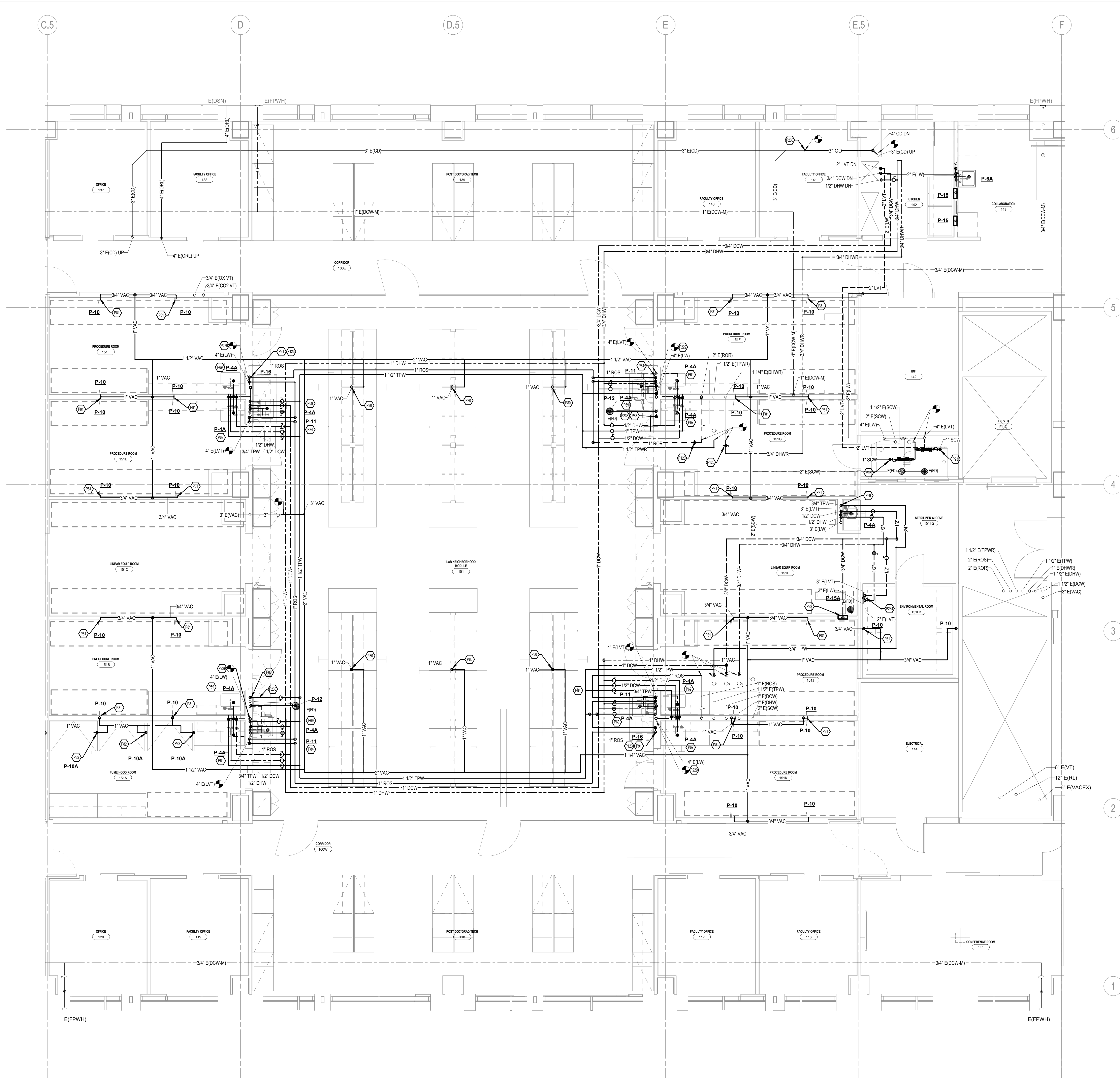
LAB NEIGHBORHOOD

MODULE 151

SHEET NO.

P-362

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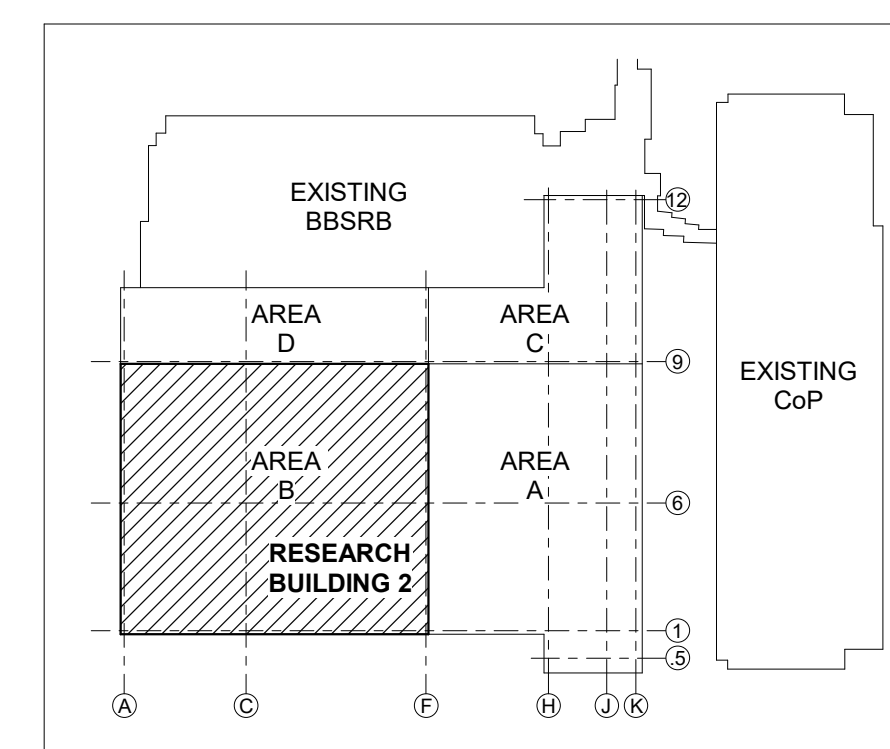
PLUMBING GENERAL NOTES

A. PROVIDE FIRESTOP PIPE SLEEVES AT NEW PIPE PENETRATIONS IN THE EXISTING FLOOR SLAB. REFER TO SPECIFICATIONS FOR FIRESTOP PIPE SLEEVE REQUIREMENTS.

B. REMOVE AND ADJUST EXISTING FLOOR DRAIN STRAINERS TO BE FLUSH WITH NEW FINISHED FLOOR SURFACE. REFER TO ARCHITECTURAL FLOOR PLAN FOR FINISHED FLOOR REQUIREMENTS.

- TAGGED NOTES**
- P69 PROVIDE 3/4" TEPID WATER FINAL CONNECTION TO EYEWASH. EYEWASH FURNISHED BY LAB CASEWORK SUPPLIER AND INSTALLED BY PLUMBING CONTRACTOR. REFER TO LAB EQUIPMENT PLANS.
 - P80 PROVIDE VACUUM PIPE FINAL CONNECTION TO SERVICE CEILING PANEL. REFER TO LAB EQUIPMENT DRAWINGS.
 - P81 PROVIDE VACUUM PIPE FINAL CONNECTION TO WALL MOUNTED VACUUM NEEDLE VALVE. NEEDLE VALVE OUTLETS FURNISHED BY LAB EQUIPMENT SUPPLIER AND INSTALLED BY THE PLUMBING CONTRACTOR. REFER TO LAB EQUIPMENT PLANS.
 - P82 PROVIDE VACUUM PIPE FINAL CONNECTION TO FUME HOOD VACUUM OUTLET. REFER TO LAB EQUIPMENT DRAWINGS.
 - P83 PROVIDE 1" TEPID WATER FINAL PIPE CONNECTION TO SAFETY SHOWER. SAFETY SHOWER FURNISHED BY LAB EQUIPMENT SUPPLIER AND INSTALLED BY PLUMBING CONTRACTOR. REFER TO LAB EQUIPMENT PLANS. REFER TO RO FAUCET DETAIL ON SHEET P-451.
 - P84 PROVIDE RO WATER SUPPLY FINAL CONNECTION TO RO WATER FAUCET. FAUCET FURNISHED BY LAB EQUIPMENT SUPPLIER AND INSTALLED BY PLUMBING CONTRACTOR. REFER TO LAB EQUIPMENT PLANS. REFER TO RO FAUCET DETAIL ON SHEET P-451.
 - P91 PROVIDE RO WATER AND HOT AND COLD WATER FINAL CONNECTION TO UNDERCOUNTER GLASS WASHER. CONNECT WASHER DRAIN TO WASHER WALL BOX. REFER TO LAB EQUIPMENT PLANS.
 - P92 PROVIDE FINAL WATER CONNECT TO ICE MAKER AND PIPE ICE MAKER DRAIN TO FLOOR DRAIN.
 - P93 PROVIDE 1" COLD WATER FINAL CONNECTION TO STERILIZER WITH 1" WATTS 908LF REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLY. PIPE DISCHARGE PIPE FROM BACKFLOW PREVENTER FULL SIZE TO FLOOR DRAIN. PROVIDE 1/2" DRAIN PIPE FROM STERILIZER TO FLOOR DRAIN. INSTALL BACKFLOW PREVENTER NEATLY ALONG BACK WALL TO MAINTAIN OWNER REQUIRE CLEARANCE BETWEEN THE STERILIZER UNITS.
 - P120 PROVIDE BALANCING VALVE. TYPICAL VALVE SHALL BE SET TO MATCH EXISTING FLOW PREVIOUSLY FIT-OUT FLOORS.
 - P123 PROVIDE ROS CONNECT FOR FUTURE POLISHER. PROVIDE 1" PIPE STUB-OUT THROUGH WALL WITH BALL VALVE AND PIPE ESCUTCHEON AND CAP AT 7'-0" AFF, CENTERED ABOVE WALL SHELVES. REFER TO "QL" DRAWINGS ELEVATIONS.
 - P229 REMOVE THE EXISTING LAB WASTE TEE FITTINGS FROM THE EXISTING MAIN LAB WASTE STACK AND PROVIDE NEW TEE FITTINGS AT A LOWER ELEVATION TO CONNECT NEW WASTE PIPING.
 - P230 REMOVE THE EXISTING 4" CONDENSATE PIPE DOWN AND REROUTE PIPE AS SHOWN.
 - P234 PROVIDE WASTE AND WATER PIPE ROUGH-INS CAPPED INSIDE WALL FOR FUTURE SINK CONNECTION.
 - P238 PROVIDE PIPE TEE IN TEPID WATER SUPPLY TO EMERGENCY SHOWER FOR CONNECTION OF FLOW SWITCH. FLOW SWITCH PROVIDED BY CONTROLS CONTRACTOR.

1 ENLARGED LAB NEIGHBORHOOD MODULE 151
1/4" = 1'-0"



KEY PLAN
NTS



ISSUANCES

No.	Description	Date
1	DD ISSUANCE - NIH	02/05/20
2	CD ISSUANCE - NIH	04/14/20
3	BID & PERMIT - NIH	05/22/20

Drawn By

RLB

Checked By

CMR

Client Number

Project Number

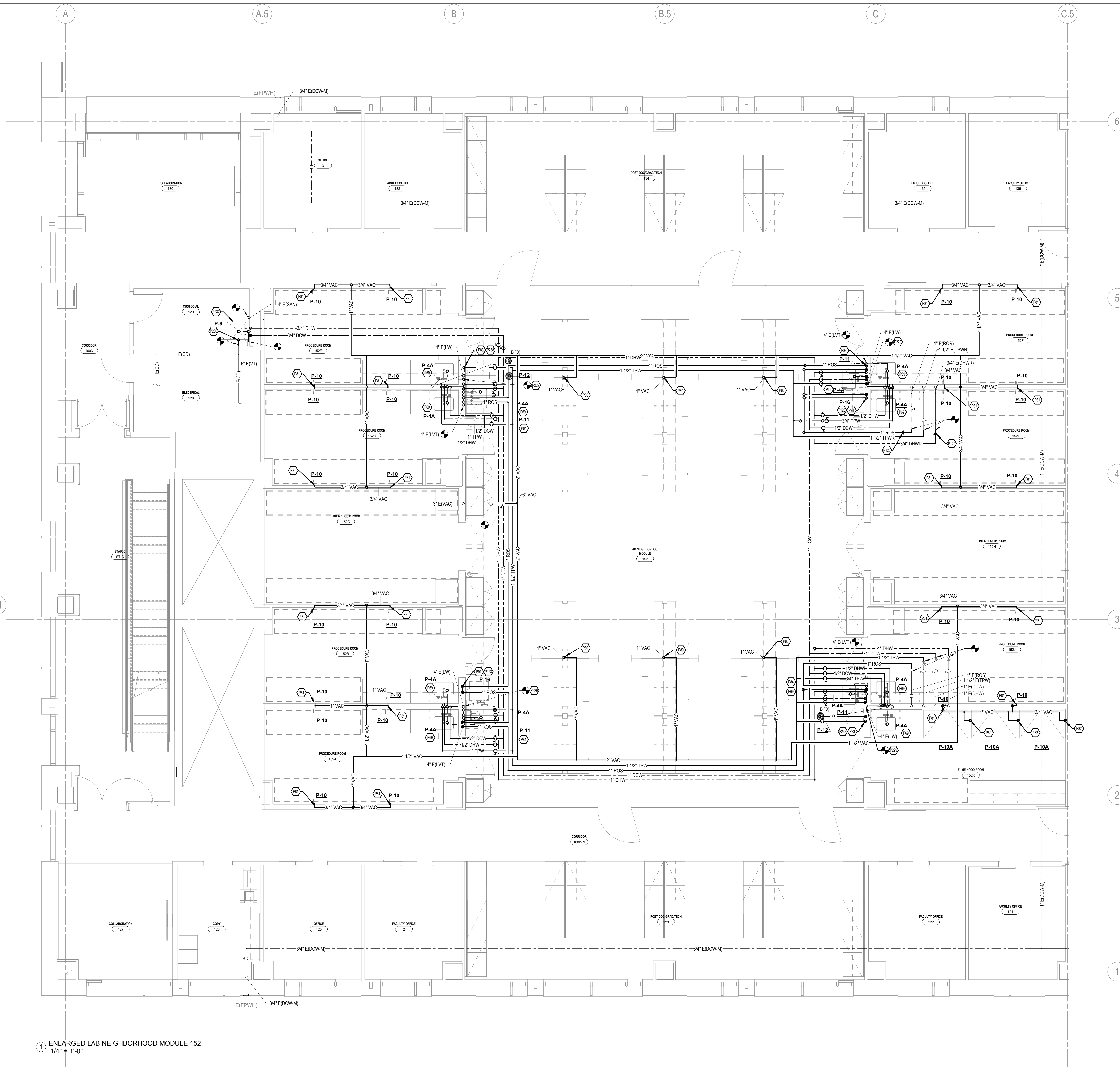
UKR15

DRAWING

ENLARGED LAB PLAN -
LAB NEIGHBORHOOD
MODULE 152

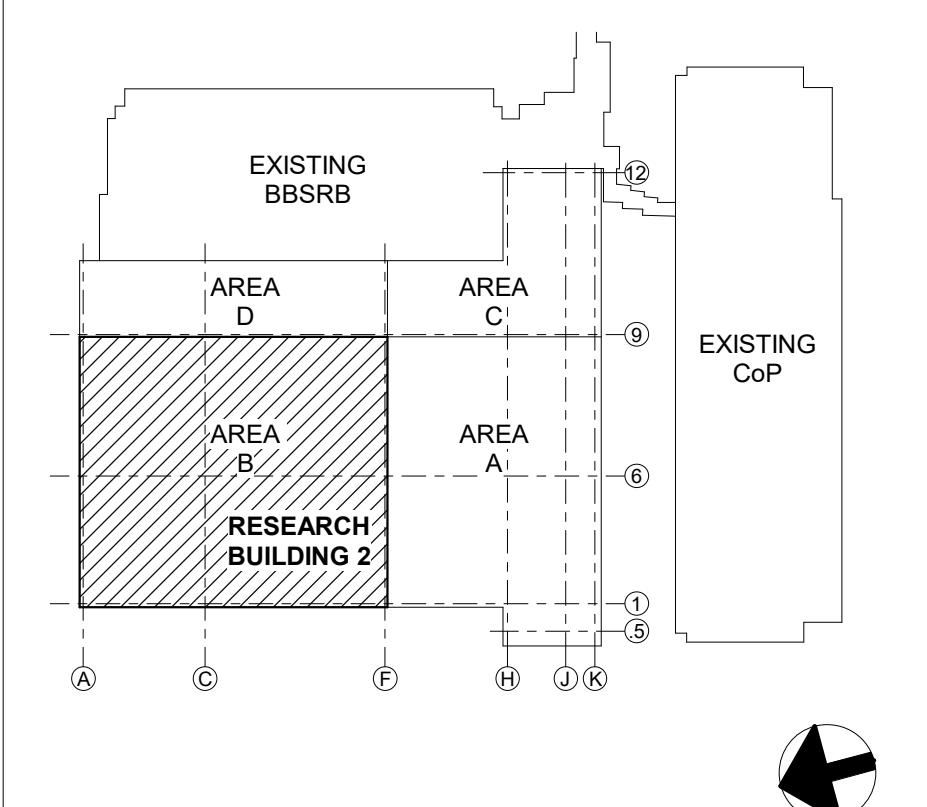
SHEET NO.

P-363

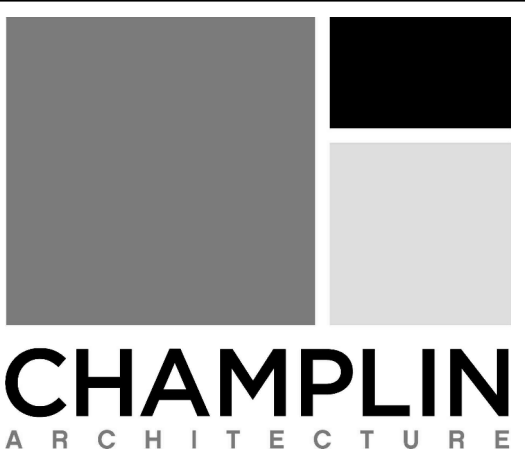


- TAGGED NOTES**
- P69 PROVIDE 3/4" TEPID WATER FINAL CONNECTION TO EYEWASH. EYEWASH FURNISHED BY LAB CASEWORK SUPPLIER AND INSTALLED BY PLUMBING CONTRACTOR. REFER TO LAB EQUIPMENT PLANS.
 - P80 PROVIDE VACUUM PIPE FINAL CONNECTION TO SERVICE CEILING PANEL. REFER TO LAB EQUIPMENT DRAWINGS.
 - P81 PROVIDE VACUUM PIPE FINAL CONNECTION TO WALL MOUNTED VACUUM NEEDLE VALVE. NEEDLE VALVE OUTLETS FURNISHED BY LAB EQUIPMENT SUPPLIER AND INSTALLED BY THE PLUMBING CONTRACTOR. REFER TO LAB EQUIPMENT PLANS.
 - P82 PROVIDE VACUUM PIPE FINAL CONNECTION TO FUME HOOD VACUUM OUTLET. REFER TO LAB EQUIPMENT DRAWINGS.
 - P83 PROVIDE 1" TEPID WATER FINAL PIPE CONNECTION TO SAFETY SHOWER. SAFETY SHOWER FURNISHED BY LAB EQUIPMENT SUPPLIER AND INSTALLED BY PLUMBING CONTRACTOR. REFER TO LAB EQUIPMENT PLANS.
 - P84 PROVIDE RO WATER SUPPLY FINAL CONNECTION TO RO WATER FAUCET. FAUCET FURNISHED BY LAB EQUIPMENT SUPPLIER AND INSTALLED BY PLUMBING CONTRACTOR. REFER TO LAB EQUIPMENT PLANS. REFER TO RO FAUCET DETAIL ON SHEET P-451.
 - P91 PROVIDE RO WATER AND HOT AND COLD WATER FINAL CONNECTION TO UNDERCOUNTER GLASS WASHER. CONNECT WASHER DRAIN TO WASHER WALL BOX. REFER TO LAB EQUIPMENT PLANS.
 - P120 PROVIDE BALANCING VALVE. TYPICAL VALVE SHALL BE SET TO MATCH EXISTING FLOW PREVIOUSLY FIT-OUT FLOORS.
 - P123 PROVIDE ROS CONNECT FOR FUTURE POLISHER. PROVIDE 1" PIPE STUB-OUT THROUGH WALL WITH BALL VALVE AND PIPE ESCUTCHEON AND CAP AT 7'-6" AFF, CENTERED ABOVE WALL SHELVES. REFER TO "CL" DRAWINGS ELEVATIONS.
 - P229 REMOVE THE EXISTING LAB WASTE TEE FITTINGS FROM THE EXISTING MAIN LAB WASTE STACK AND PROVIDE NEW TEE FITTINGS AT A LOWER ELEVATION TO CONNECT NEW WASTE PIPING.
 - P236 REMOVE THE EXISTING CONDENSATE OVERHEAD CONDENSATE PIPING AND REROUTE CONDENSATE PIPE DOWN TO NEW MOP BASIN.
 - P237 REFER TO MOP BASIN DETAIL ON SHEET P-451.
 - P238 PROVIDE PIPE TEE IN TEPID WATER SUPPLY TO EMERGENCY SHOWER FOR CONNECTION OF FLOW SWITCH. FLOW SWITCH PROVIDED BY CONTROLS CONTRACTOR.

1 ENLARGED LAB NEIGHBORHOOD MODULE 152
1/4" = 1'-0"



KEY PLAN
NTS



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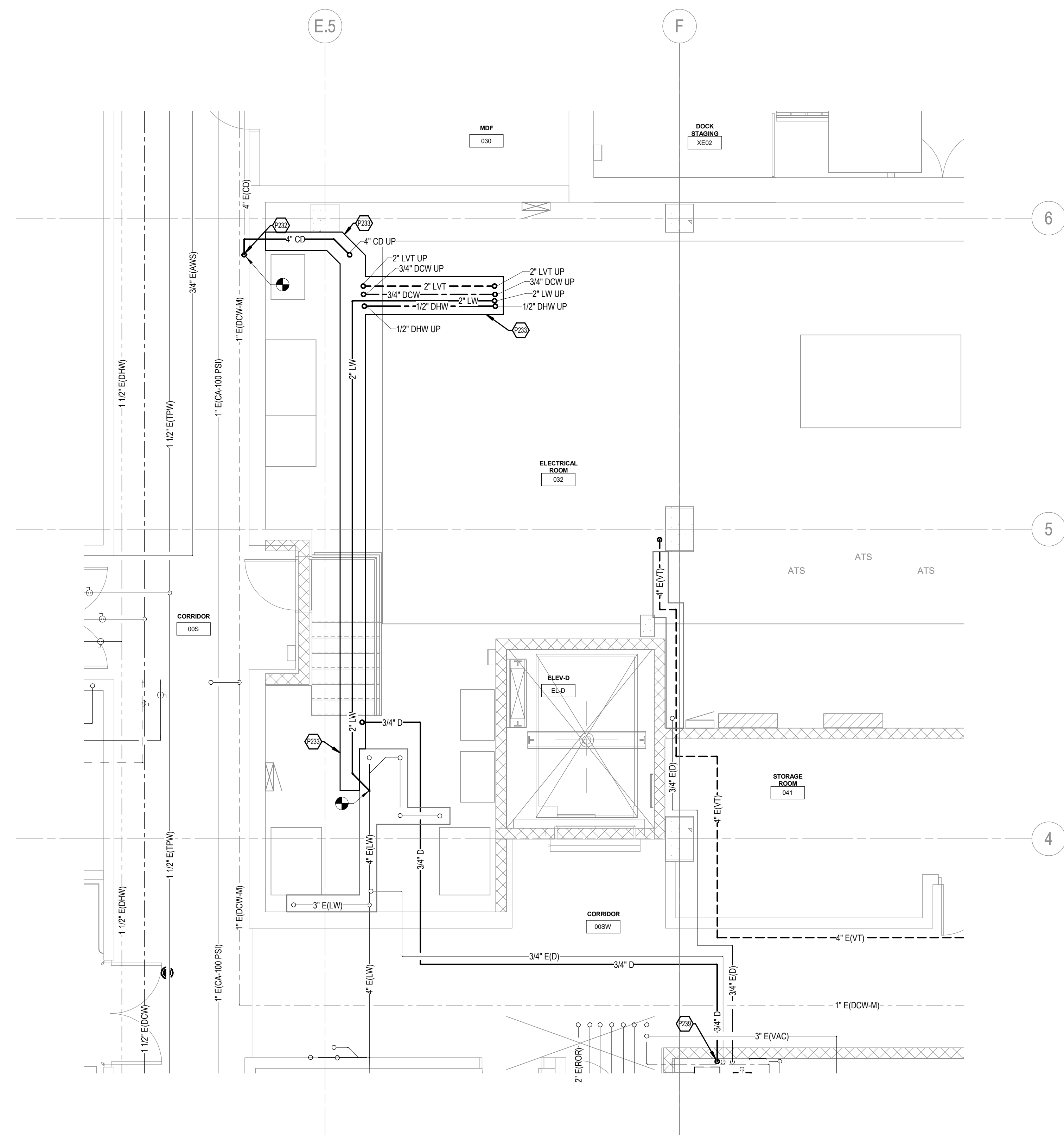
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ISSUANCES

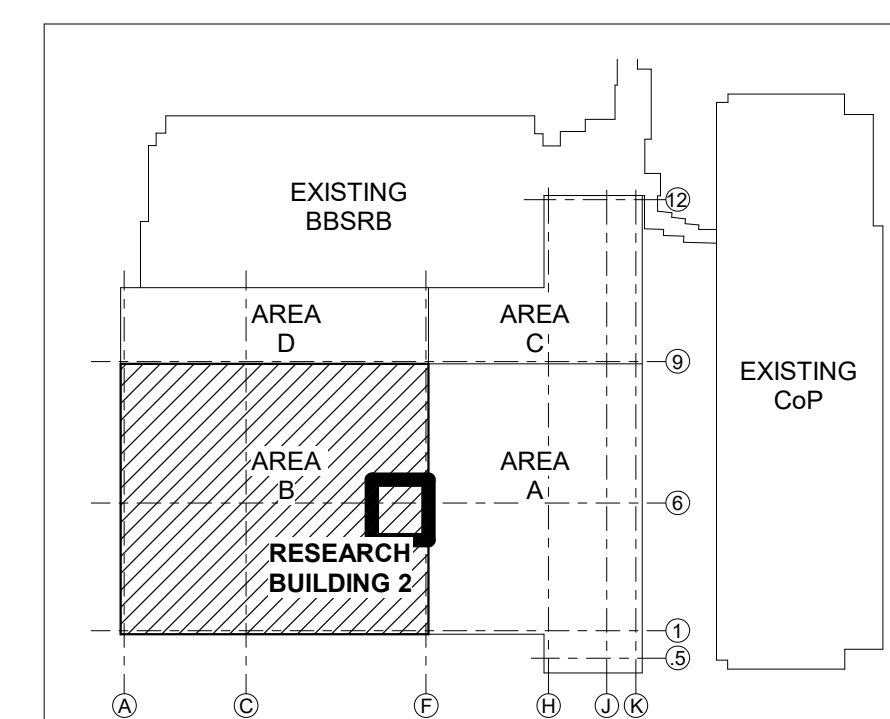
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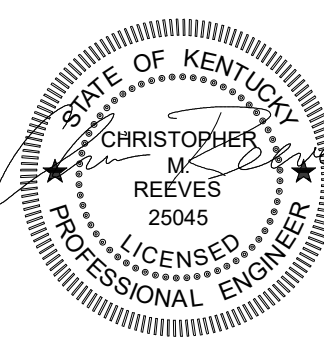
P232	REMOVE THE EXISTING 4" CONDENSATE PIPE UP AND REROUTE PIPE AS SHOWN.
P233	PROVIDE DRAIN PAN BELOW NEW PLUMBING PIPING. PROVIDE 3/4" DRAIN PIPE FROM DRAIN PAN AND DISCHARGE TO FLOOR DRAIN IN MECHANICAL ROOM.
P239	EXTEND DRAIN PIPE DOWN TO EXISTING FLOOR DRAIN AND PROVIDE INDIRECT DISCHARGE.

1 BASEMENT NIH FITOUT PARTIAL AREA B - PLUMBING PLAN
1/4" = 1'-0"



KEY PLAN
NTS

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RLB
Checked By
CMR
Client Number
Project Number
UKR15



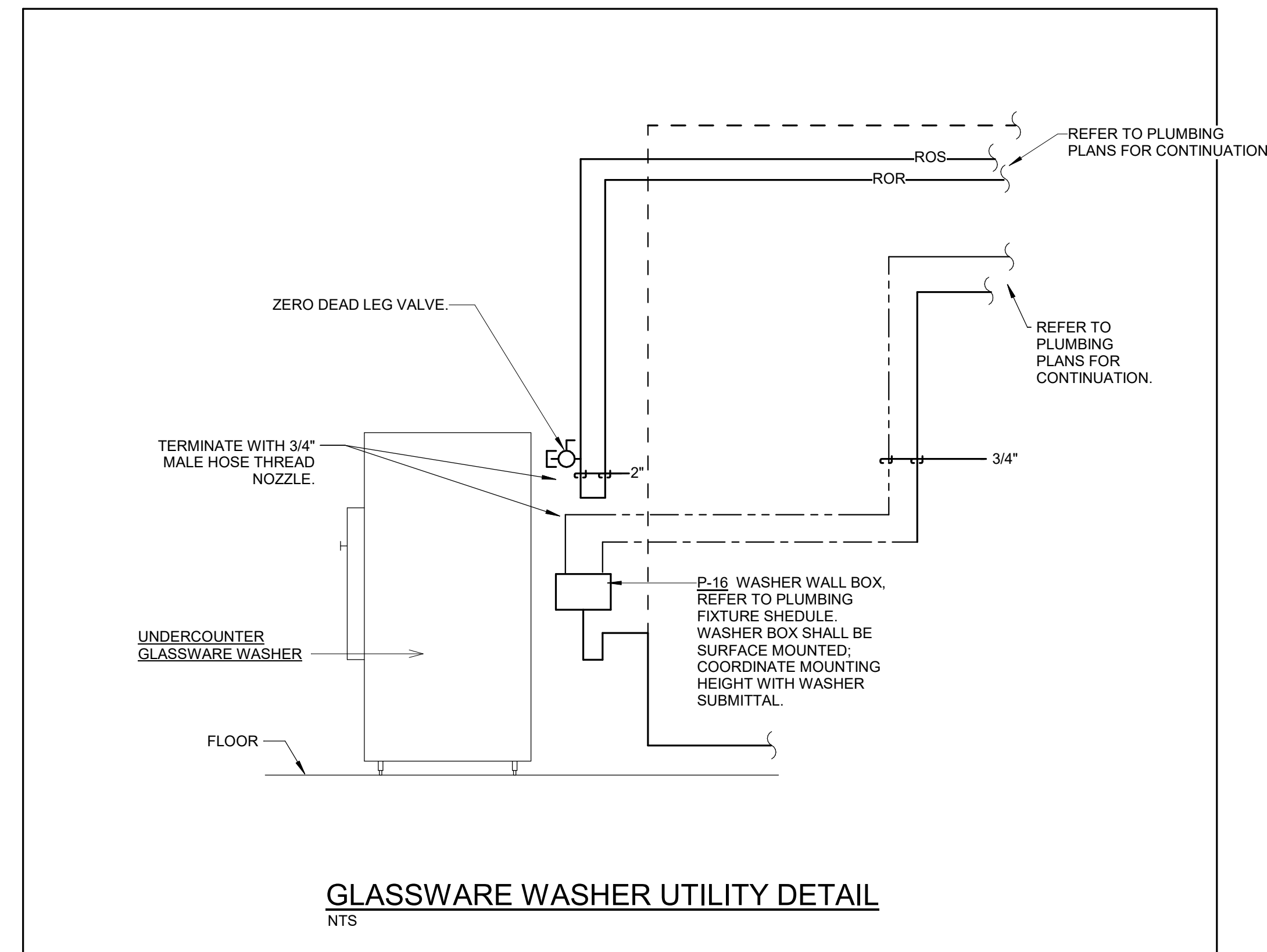
DRAWING
BASEMENT NIH
FITOUT AREA B -
PLUMBING PLAN

SHEET NO.
P-364

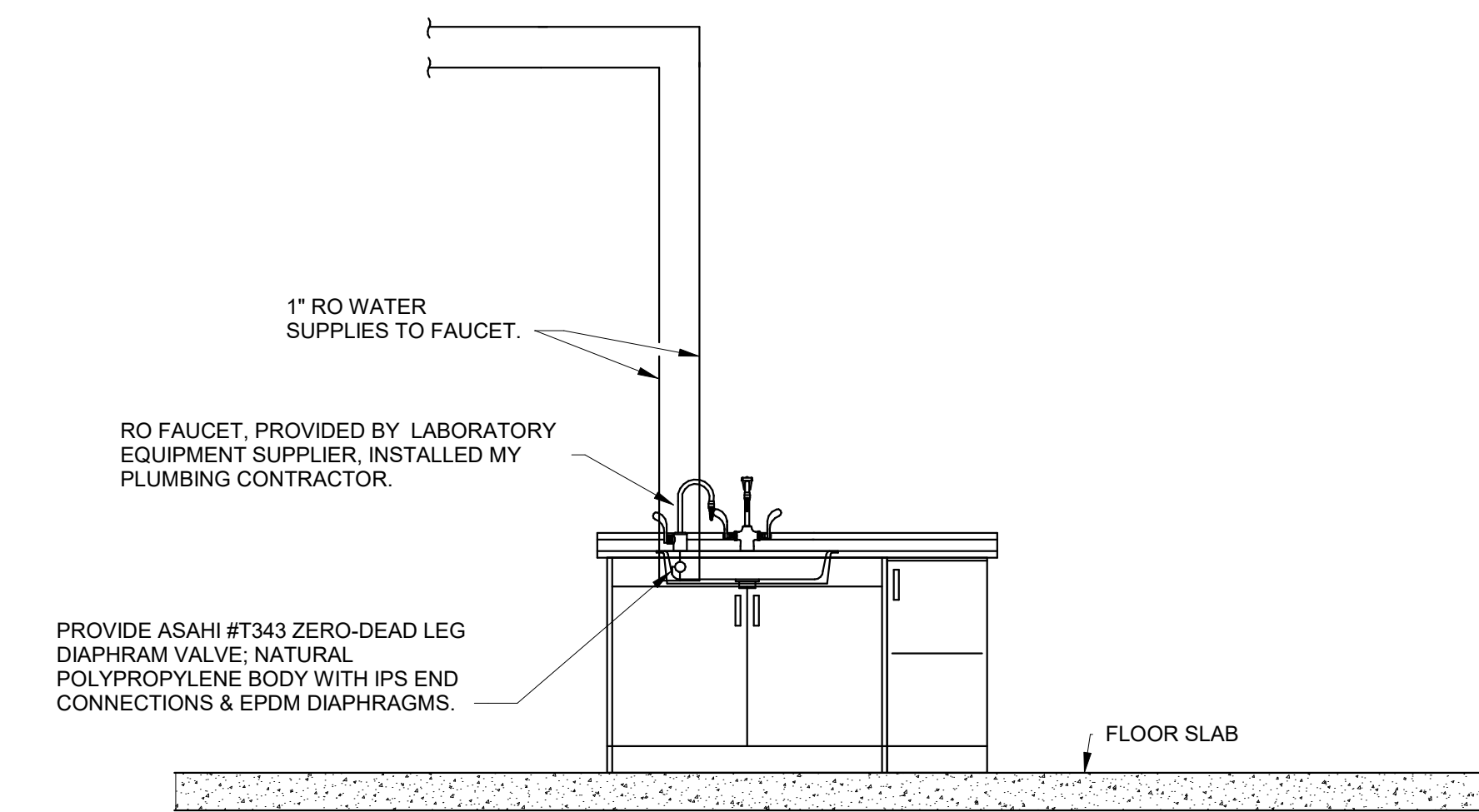
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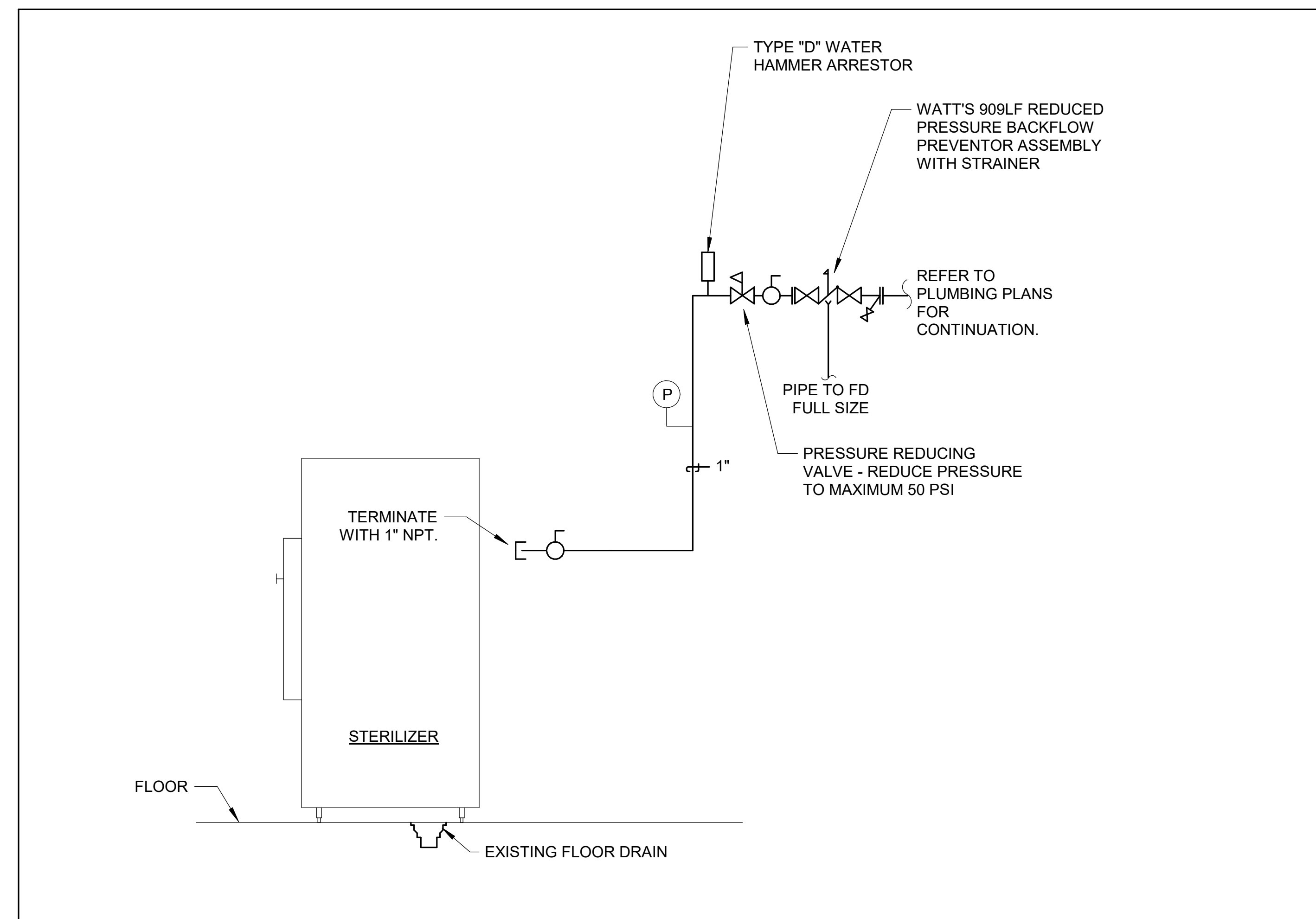
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2	CD ISSUANCE - NIH	04/14/20
3	BID & PERMIT - NIH	05/22/20



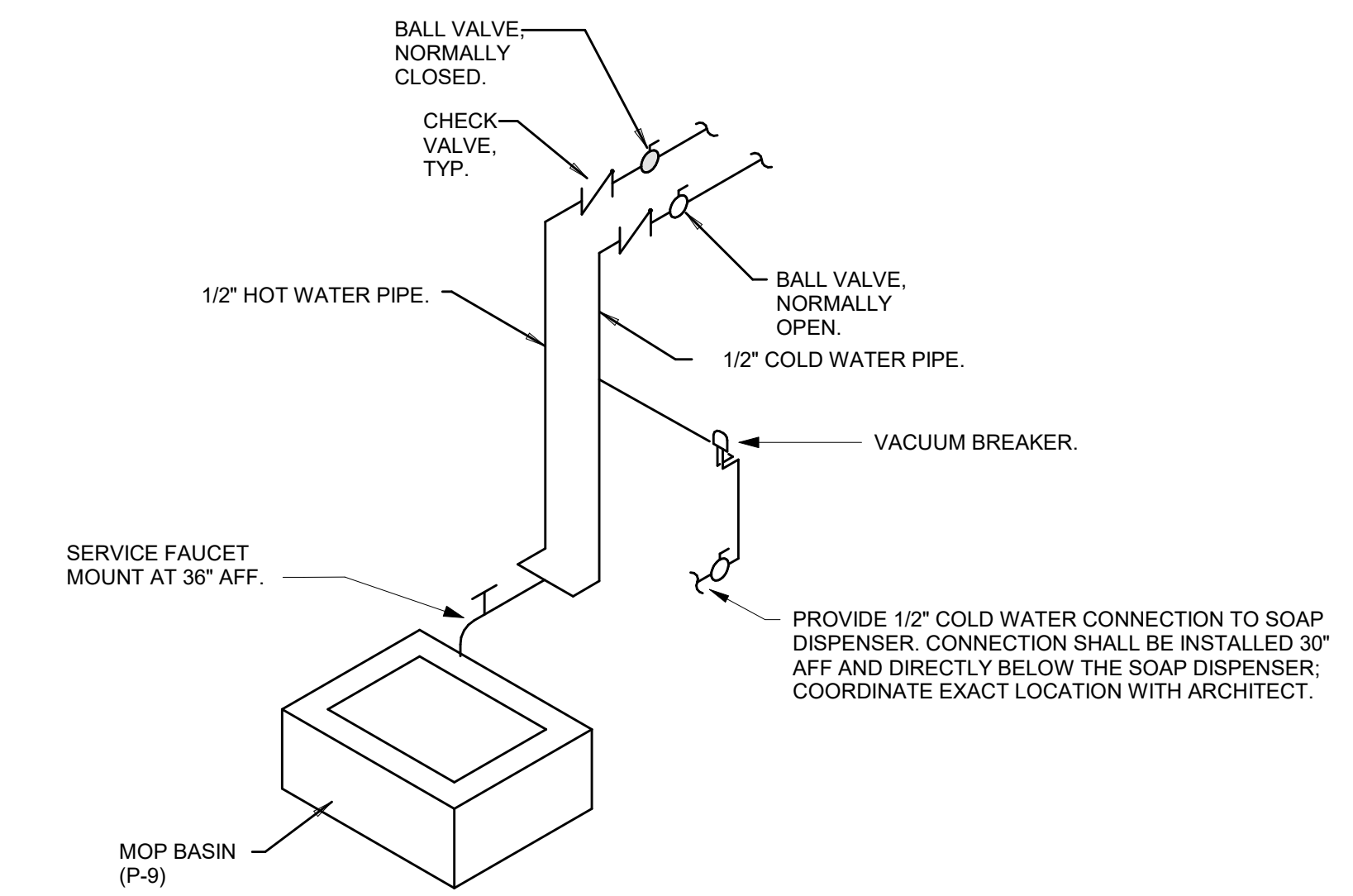
⑤ GLASSWARE WASHER UTILITY DETAIL
NOT TO SCALE



② TYPICAL RO FAUCET WATER SUPPLY CONNECTION DETAIL
NOT TO SCALE



④ TYPICAL STERILIZER UTILITY DETAIL
NOT TO SCALE



① MOP BASIN DETAIL
1/4" = 1'-0"

Drawn By	Author
Checked By	CMR
Client Number	
Project Number	UKR15

DRAWING

PLUMBING DETAILS

SHEET NO.
P-451

ISSUANCES

No.	Description	Date
1	DD ISSUANCE - NIH	02/05/20
2	CD ISSUANCE - NIH	04/14/20
3	BID & PERMIT - NIH	05/22/20

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Project Number

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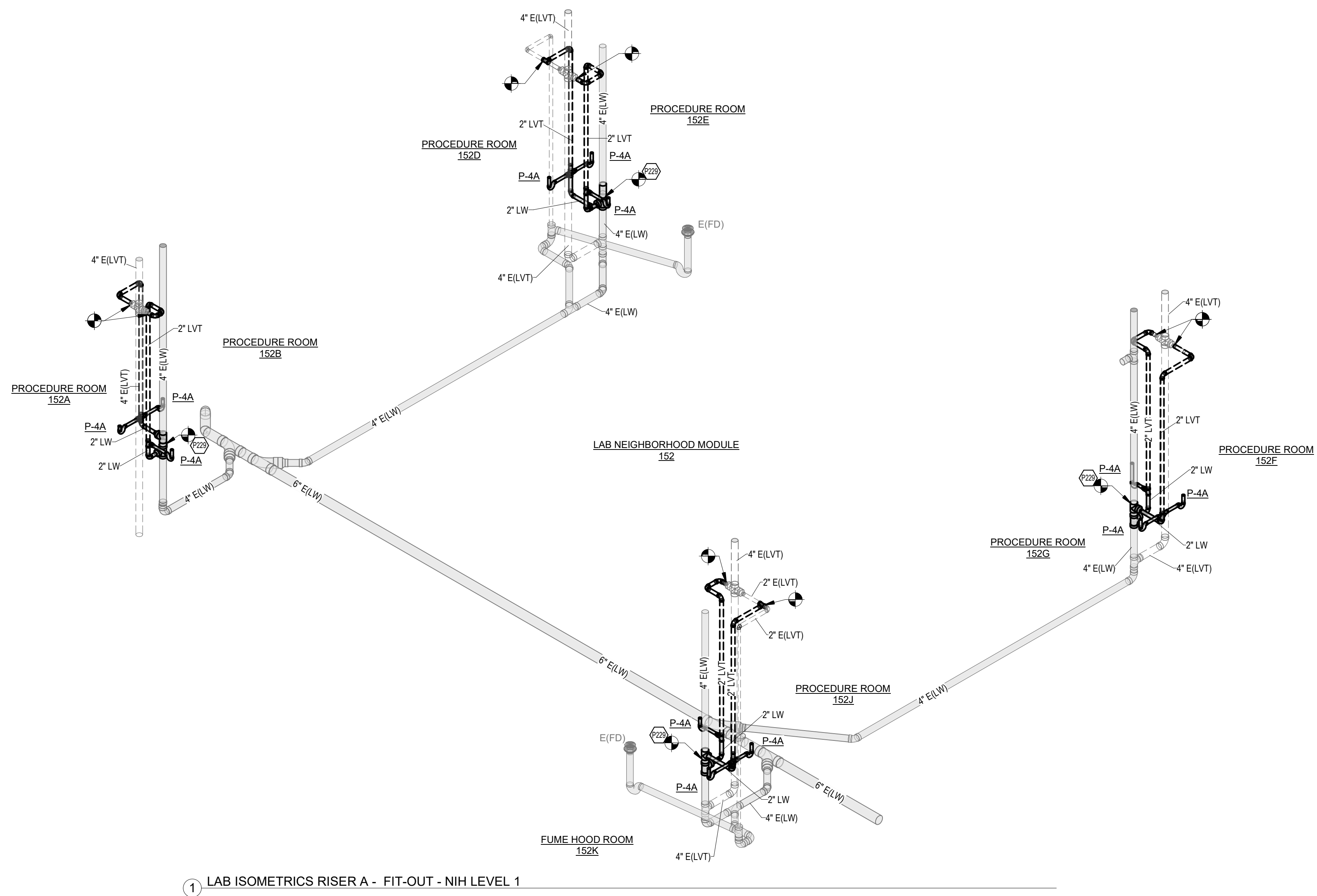
NIH LEVEL 1 LAB
FIT-OUT RISER
ISOMETRICS

SHEET NO.

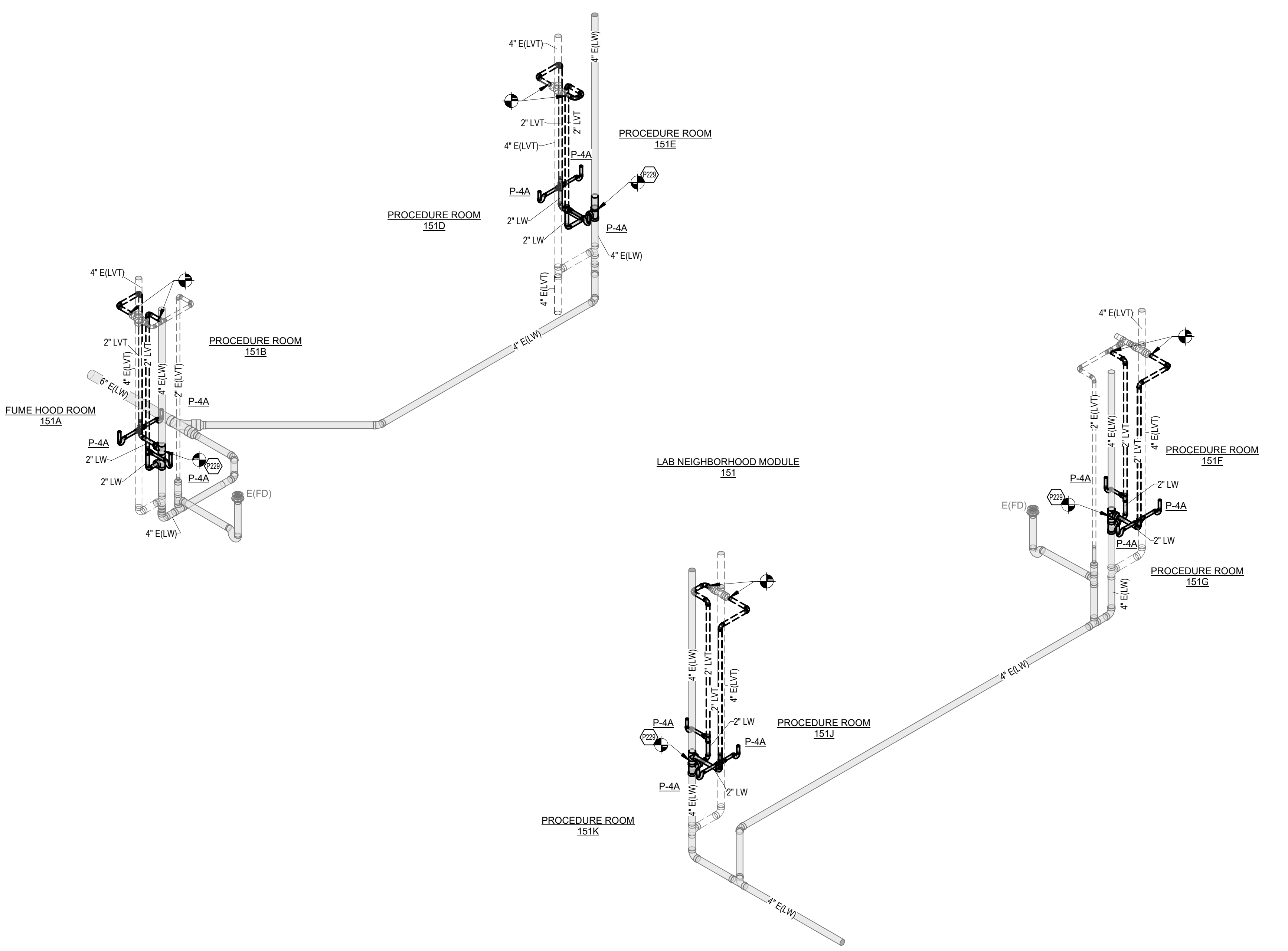
P-955

TAGGED NOTES

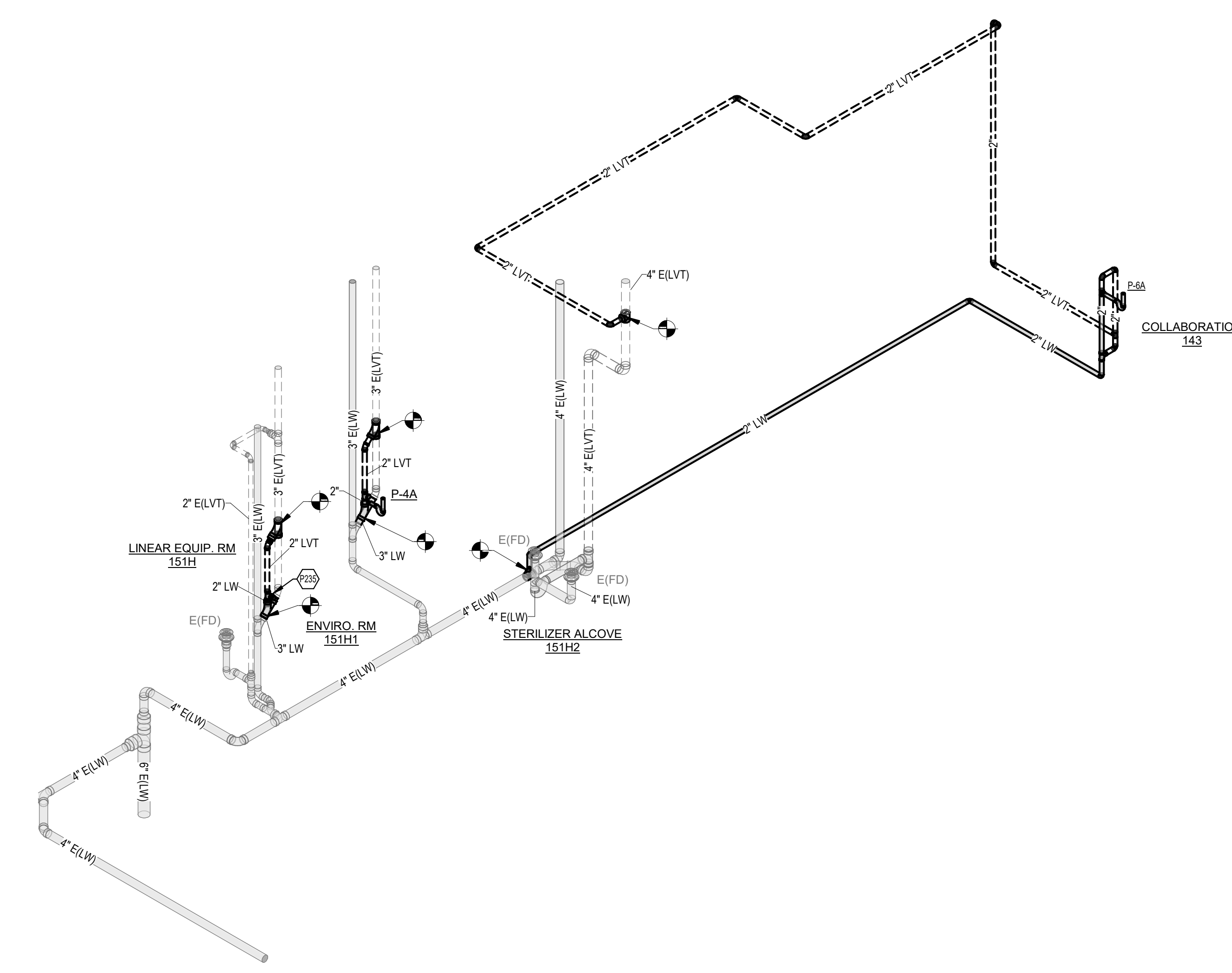
P229	REMOVE THE EXISTING LAB WASTE TEE FITTINGS FROM THE EXISTING MAIN LAB WASTE STACK AND PROVIDE NEW TEE FITTINGS AT A LOWER ELEVATION TO CONNECT NEW WASTE PIPING.
P235	PROVIDE WASTE PIPE ROUGH-IN, IN WALL FOR FUTURE SINK CONNECTION.



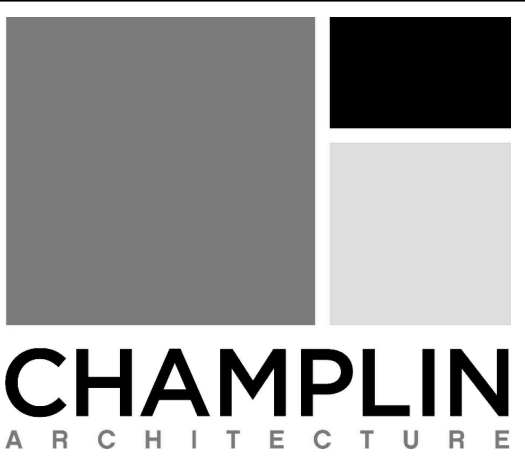
1 LAB ISOMETRICS RISER A - FIT-OUT - NIH LEVEL 1



2 LAB ISOMETRICS RISER B - FIT-OUT - NIH LEVEL 1



3 LAB ISOMETRICS RISER C - FIT-OUT - NIH LEVEL 1



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NIH LEVEL 1 LAB
FIT-OUT RISER
ISOMETRICS

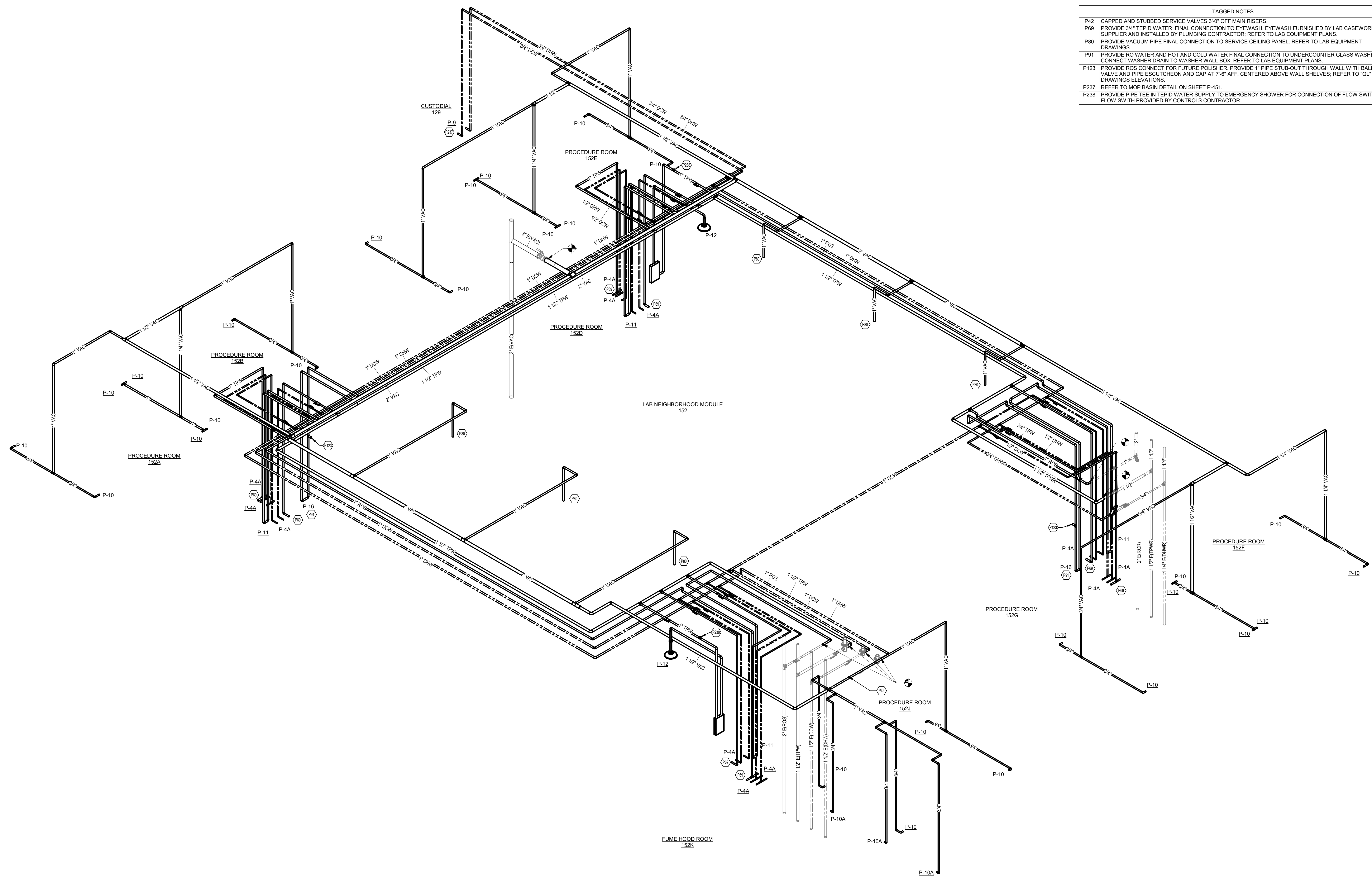
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P-956

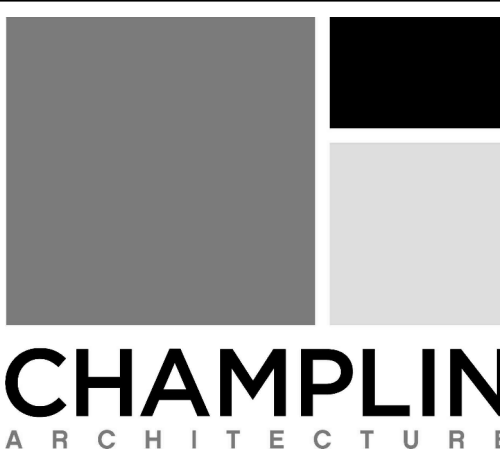
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TAGGED NOTES

P42	CAPPED AND STUBBED SERVICE VALVES 3'-0" OFF MAIN RISERS.
P69	PROVIDE 3/4" TEPID WATER FINAL CONNECTION TO EYEWASH. EYEWASH FURNISHED BY LAB CASEWORK SUPPLIER AND INSTALLED BY PLUMBING CONTRACTOR. REFER TO LAB EQUIPMENT PLANS.
P80	PROVIDE VACUUM PIPE FINAL CONNECTION TO SERVICE CEILING PANEL. REFER TO LAB EQUIPMENT DRAWINGS.
P91	PROVIDE RO WATER AND HOT AND COLD WATER FINAL CONNECTION TO UNDERCOUNTER GLASS WASHER. CONNECT WASHER DRAIN TO WASHER WALL BOX. REFER TO LAB EQUIPMENT PLANS.
P123	PROVIDE ROS CONNECT FOR FUTURE POLISHER. PROVIDE 1" PIPE STUB-OUT THROUGH WALL WITH BALL VALVE AND PIPE ESCUTCHEON AND CAP AT 7'-6" AFF. CENTERED ABOVE WALL SHELVES. REFER TO "QL" DRAWINGS ELEVATIONS.
P237	REFER TO MOP BASIN DETAIL ON SHEET P-451.
P238	PROVIDE PIPE TEE IN TEPID WATER SUPPLY TO EMERGENCY SHOWER FOR CONNECTION OF FLOW SWITCH. FLOW SWITCH PROVIDED BY CONTROLS CONTRACTOR.



2 LAB WATER & VACUUM RISER A - FIT-OUT - NIH LEVEL 1



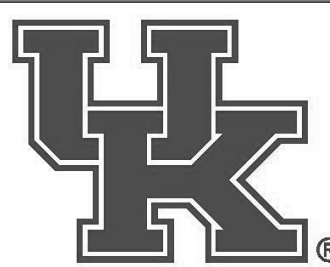
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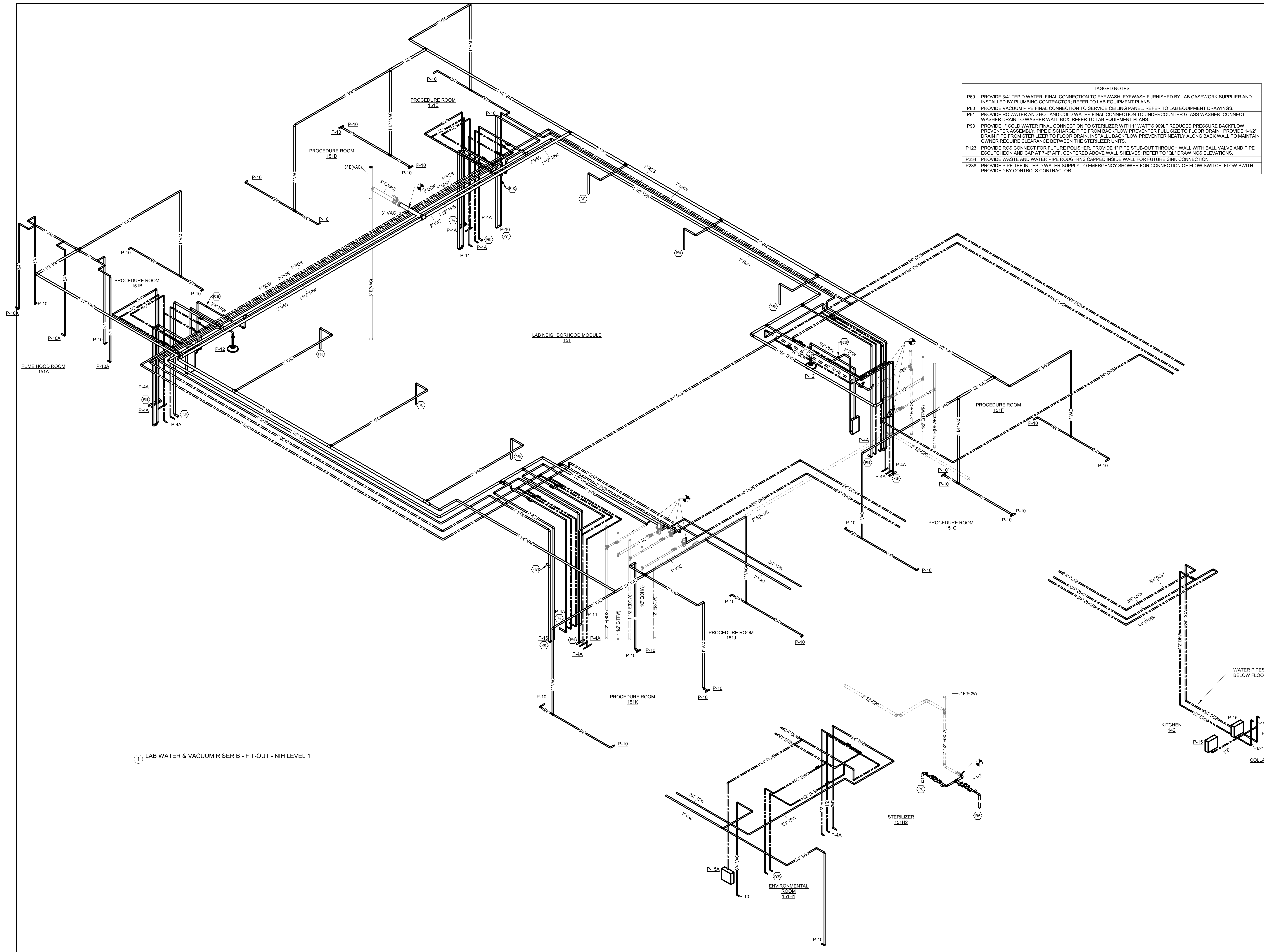
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NIH LEVEL 1 LAB
FIT-OUT RISER
ISOMETRICS

SHEET NO.

P-957

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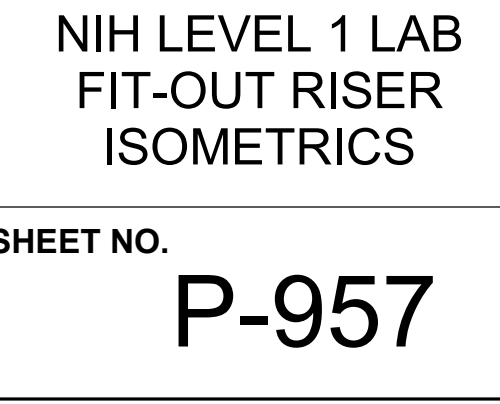


1 LAB WATER & VACUUM RISER B - FIT-OUT - NIH LEVEL 1

2 LAB WATER & VACUUM RISER C - FIT-OUT - NIH LEVEL 1

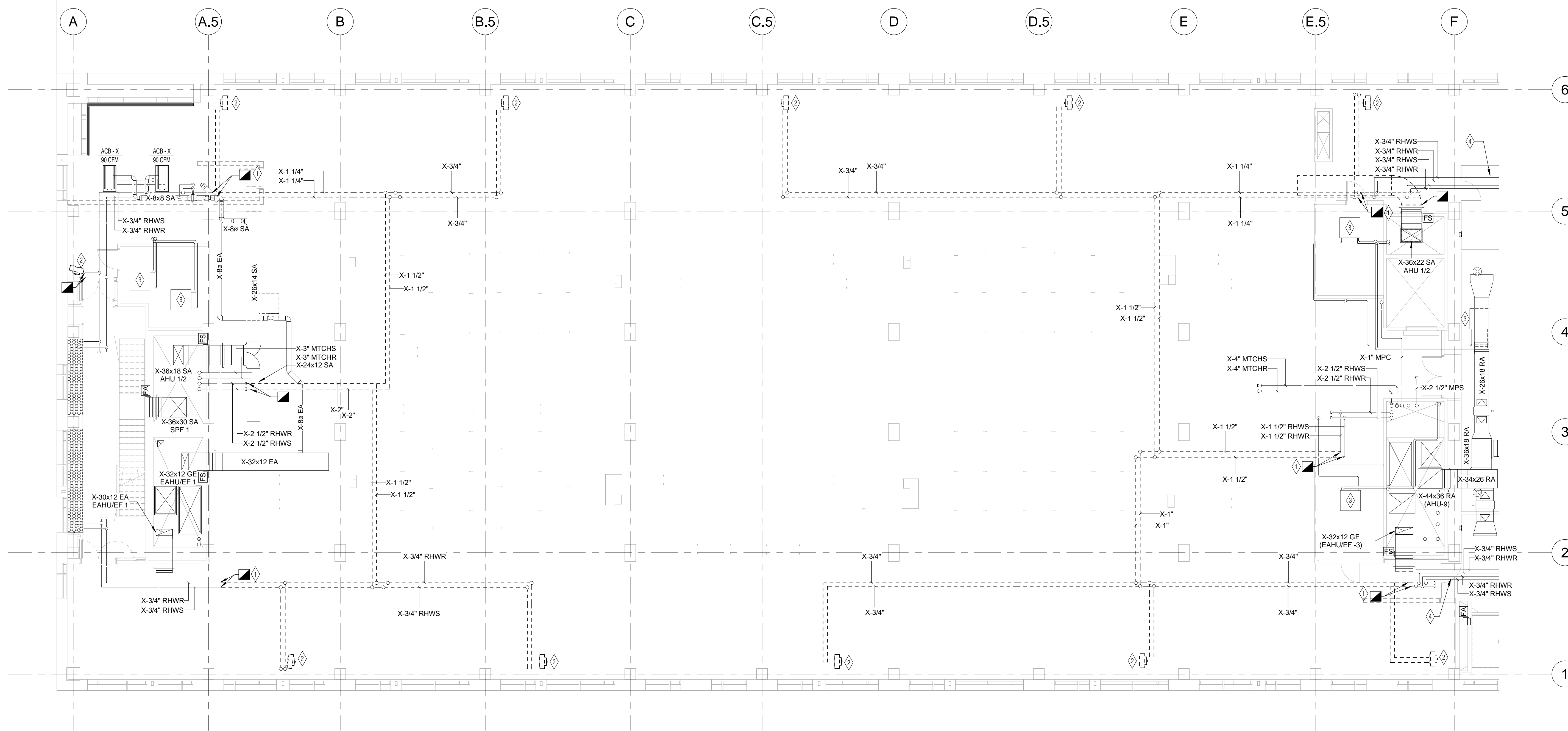
TAGGED NOTES

P69	PROVIDE 3/4\" tepid water final connection to eyewash. eyewash furnished by lab casework supplier and installed by plumbing contractor; refer to lab equipment plans.
P80	PROVIDE VACUUM PIPE FINAL CONNECTION TO SERVICE CEILING PANEL. REFER TO LAB EQUIPMENT DRAWINGS.
P91	PROVIDE RO WATER AND HOT AND COLD WATER FINAL CONNECTION TO UNDERCOUNTER GLASS WASHER. CONNECT WASHER DRAIN TO WASHER WALL BOX. REFER TO LAB EQUIPMENT PLANS.
P93	PROVIDE 1\" cold water final connection to sterilizer with 1\" watts 900lf reduced pressure backflow preventer assembly. pipe discharge pipe from backflow preventer full size to floor drain. provide 1-1/2\" drain pipe from sterilizer to floor drain. install backflow preventer neatly along back wall to maintain owner require clearance between the sterilizer units.
P123	PROVIDE ROS CONNECT FOR FUTURE POLISHER. PROVIDE 1\" pipe stub-out through wall with ball valve and pipe escutcheon and cap at 7-8\" AFF. CENTERED ABOVE WALL SHELVES; REFER TO '04' DRAWINGS ELEVATIONS.
P234	PROVIDE WASTE AND WATER PIPE ROUGH-INS CAPPED INSIDE WALL FOR FUTURE SINK CONNECTION.
P238	PROVIDE PIPE TEE IN TEPID WATER SUPPLY TO EMERGENCY SHOWER FOR CONNECTION OF FLOW SWITCH. FLOW SWITCH PROVIDED BY CONTROLS CONTRACTOR.



KEYED NOTES

- 1 DEMOLISH HOT WATER PIPING BACK TO POINT INDICATED. REMOVE ALL ASSOCIATED HANGERS, SUPPORTS AND ALL ASSOCIATED APPURTENANCES. MAKE EXISTING TO REMAIN PIPES AT LIMIT OF REMOVAL READY FOR NEW CONNECTION UNDER NEW WORK SCOPE.
- 2 DEMOLISH HOT WATER UNIT HEATER. UNIT HEATERS SHALL BE CLEANED AND KEPT IN GOOD WORKING ORDER FOR TURN-OVER TO OWNER.
- 3 EXISTING TO REMAIN VARIABLE REFRIGERANT FLOW (VRF) COOLING UNIT AND ALL ASSOCIATED PIPING AND APPURTENANCES.
- 4 EXISTING REHEAT WATER PIPING TO EXISTING FIN TUBE. COORDINATE SHUT-DOWN OF SYSTEM WITH OWNER PRIOR TO DEMOLITION AND INSTALLATION OF REHEAT WATER PIPING MAINS.



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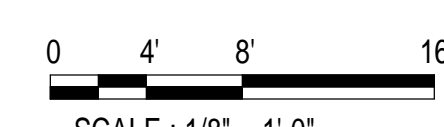
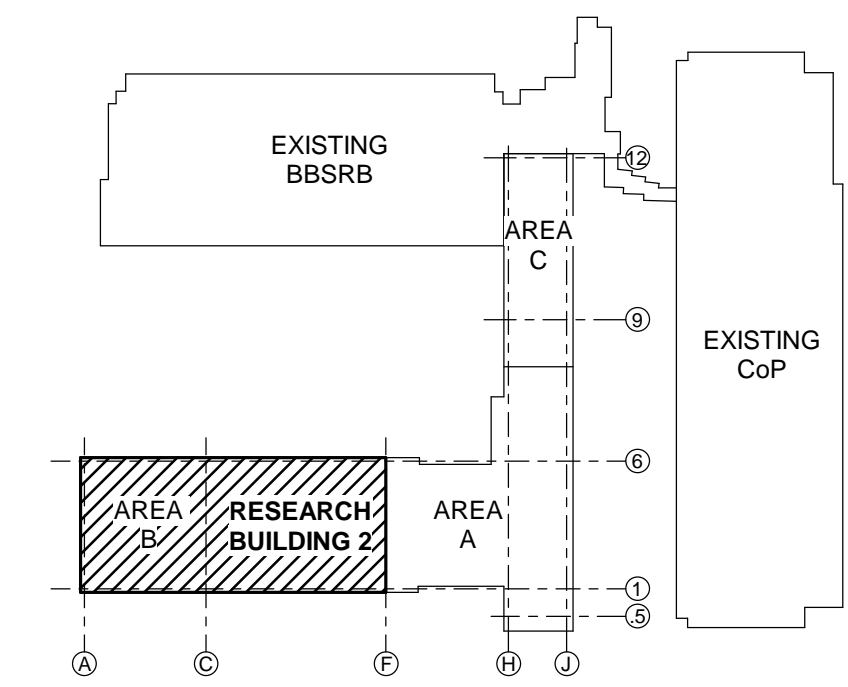
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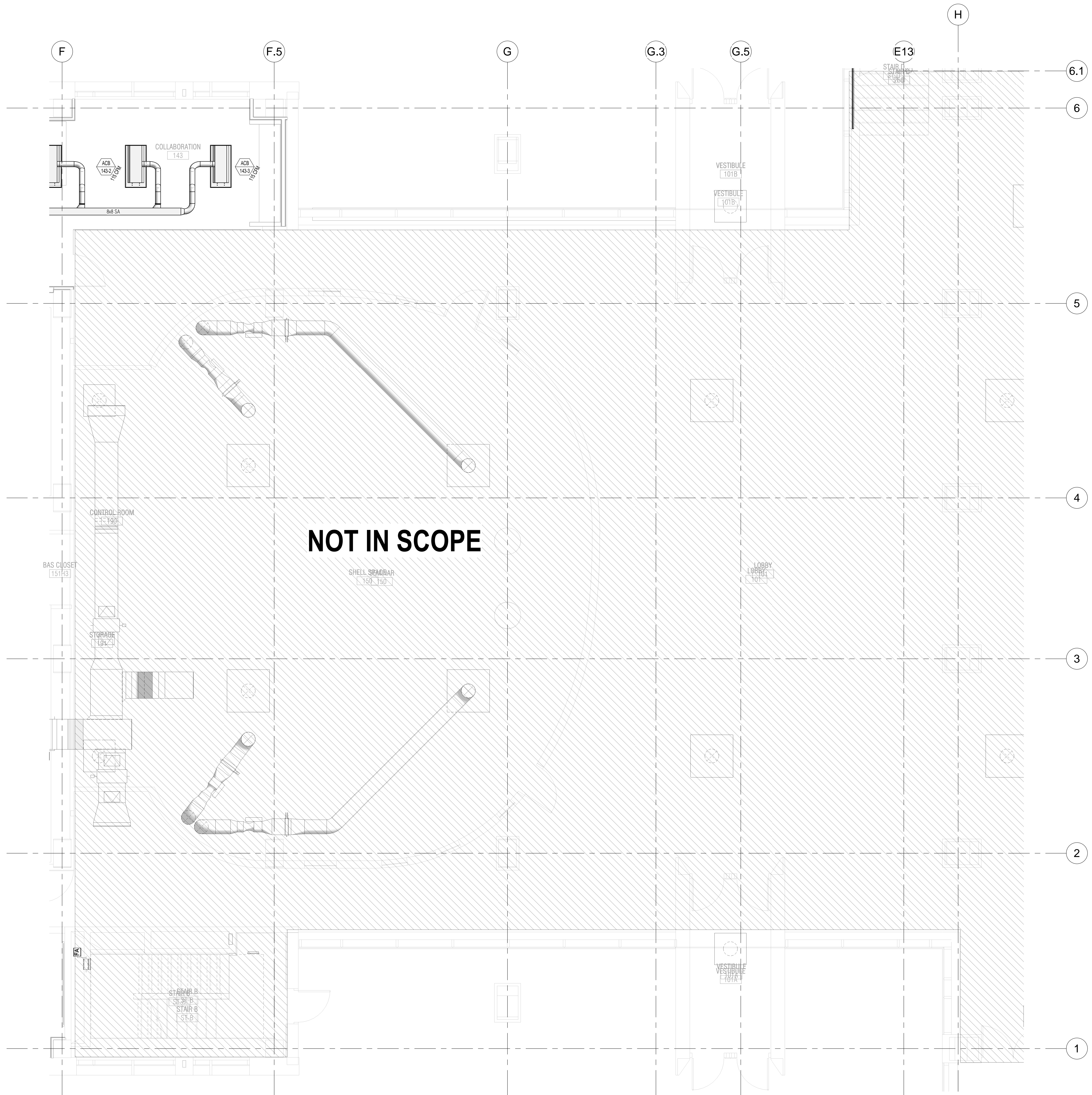
DRAWING

MECHANICAL FIT OUT
LEVEL ONE
DEMOLITION PLAN

SHEET NO.

MF-151





GENERAL NOTES

1. PROVIDE BALANCING DAMPER AT EACH DIFFUSER, GRILLE, AND BRANCH TAKEOFF IN ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK. LOCATE BALANCING DAMPER AS CLOSE TO BRANCH TAKEOFF AS POSSIBLE.
2. DUCT SIZE TO DIFFUSERS, REGISTERS, AND GRILLES SHALL BE SAME AS NECK SIZE UNLESS OTHERWISE NOTED.
3. DUCT SIZE TO AIR TERMINAL DEVICES SHALL BE SAME AS AIR TERMINAL INLET UNLESS OTHERWISE NOTED.
4. LOCATION OF CEILING MOUNTED DIFFUSERS, REGISTERS AND GRILLES SHALL BE AS SHOWN ON ARCHITECTURAL REFLECTED CEILING PLANS (RCP). MAKE ADJUSTMENTS TO DUCT LAYOUT AS NECESSARY TO COORDINATE WITH RCP.
5. MAINTAIN WORKING CLEARANCE ON CONTROLLER SIDE OF EACH AIR TERMINAL UNLESS OTHERWISE SHOWN. COORDINATE PIPING AND OTHER TRADES TO MAINTAIN ACCESS TO CONTROLLER.
6. FLEXIBLE DUCT MAY NOT BE SHOWN. FLEXIBLE DUCT MAY BE USED FOR CONNECTIONS TO SUPPLY DIFFUSERS ABOVE ACCESSIBLE CEILINGS PER SECTION 23 3114. FLEXIBLE DUCT SHALL NOT EXCEED SIX FEET. FLEXIBLE DUCT SHALL NOT BE USED FOR EXHAUST SYSTEMS. REFER TO SECTION 23 3114 FOR ADDITIONAL REQUIREMENTS.
7. CRITICAL DAMPER LOCATIONS ARE SHOWN TO ENSURE PROPER LOCATION AND ACCESS. PROVIDE DAMPERS PER GENERAL NOTE 1 WHETHER SHOWN OR NOT.
8. PROVIDE 12" MINIMUM STRAIGHT LENGTH OF DUCT BETWEEN SUPPLY AIR TERMINAL AND REHEAT COIL FOR ACCESS PANEL.
9. ALL NON-FIRE/SMOKE DAMPERED EXHAUST DUCTS SHALL BE COATED WITH CONQUEST-FRESPRAY FROM THE POINT THEY ENTER THE RATED SHUTT TO THE UNDERSIDE OF THE ROOF SLAB.
10. REFER TO AIR TERMINAL DEVICE SCHEDULES FOR SOUND ATTENUATING DEVICE REQUIREMENTS.
11. PROVIDE COMBINATION FIRE SMOKE DAMPER AT ALL DUCT PENETRATIONS TO SHAFTS.
12. REFER TO SPECIFICATIONS FOR COMPLETE PROJECT SCOPE.
13. REFER TO DETAILS ON SHEETS MF850-MF853.
14. REFER TO SCHEDULES ON SHEETS MF968-MF969.

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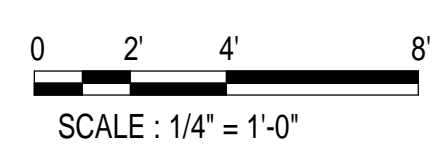
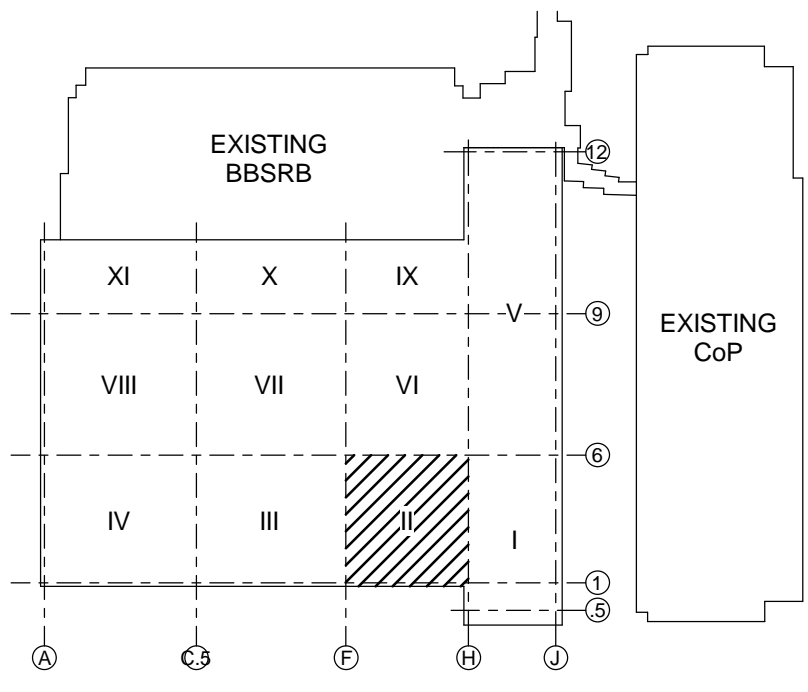
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DRAWING
MECHANICAL FIT OUT
VENTILATION LEVEL
ONE FLOOR PLAN
AREA II

SHEET NO.
MF-251 II



GENERAL NOTES

1. PROVIDE BALANCING DAMPER AT EACH DIFFUSER, GRILLE, AND BRANCH TAKEOFF IN ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK. LOCATE BALANCING DAMPER AS CLOSE TO BRANCH TAKEOFF AS POSSIBLE.
2. DUCT SIZE TO DIFFUSERS, REGISTERS, AND GRILLES SHALL BE SAME AS NECK SIZE UNLESS OTHERWISE NOTED.
3. DUCT SIZE TO AIR TERMINAL DEVICES SHALL BE SAME AS AIR TERMINAL INLET UNLESS OTHERWISE NOTED.
4. LOCATION OF CEILING MOUNTED DIFFUSERS, REGISTERS AND GRILLES SHALL BE AS SHOWN ON ARCHITECTURAL REFLECTED CEILING PLANS (RCP). MAKE ADJUSTMENTS TO DUCT LAYOUT AS NECESSARY TO COORDINATE WITH RCP.
5. MAINTAIN WORKING CLEARANCE ON CONTROLLER SIDE OF EACH AIR TERMINAL UNLESS OTHERWISE SHOWN. COORDINATE PIPING AND OTHER TRADES TO MAINTAIN ACCESS TO CONTROLLER.
6. FLEXIBLE DUCT MAY NOT BE SHOWN. FLEXIBLE DUCT MAY BE USED FOR CONNECTIONS TO SUPPLY DIFFUSERS ABOVE ACCESSIBLE CEILINGS PER SECTION 23 3114. FLEXIBLE DUCT SHALL NOT EXCEED SIX FEET. FLEXIBLE DUCT SHALL NOT BE USED FOR EXHAUST SYSTEMS. REFER TO SECTION 23 3114 FOR ADDITIONAL REQUIREMENTS.
7. CRITICAL DAMPER LOCATIONS ARE SHOWN TO ENSURE PROPER LOCATION AND ACCESS. PROVIDE DAMPERS PER GENERAL NOTE 1 WHETHER SHOWN OR NOT.
8. PROVIDE 12" MINIMUM STRAIGHT LENGTH OF DUCT BETWEEN SUPPLY AIR TERMINAL AND REHEAT COIL FOR ACCESS PANEL.
9. ALL NON-FIRE SMOKE DAMPERED EXHAUST DUCTS SHALL BE COATED WITH CONQUEST-FIRESPRAY FROM THE POINT THEY ENTER THE RATED SHAFT TO THE UNDERSIDE OF THE ROOF SLAB.
10. REFER TO AIR TERMINAL DEVICE SCHEDULES FOR SOUND ATTENUATING DEVICE REQUIREMENTS.
11. PROVIDE COMBINATION FIRE SMOKE DAMPER AT ALL DUCT PENETRATIONS TO SHAFTS.
12. REFER TO SPECIFICATIONS FOR COMPLETE PROJECT SCOPE.
13. REFER TO DETAILS ON SHEETS MF60-MF63.
14. REFER TO SCHEDULES ON SHEETS MF90-MF99.

KEYED NOTES

1. CANOPY HOOD 500 CFM. COORDINATE MODULAR LOUVER WALL WITH ARCHITECT. REFER TO DETAIL 7MP-805.
2. PROVIDE DUCT LAGGING WRAP. MASS LOADED VINYL OVER 2" THICK BATT INSULATION TO THE HATCHED DUCT.

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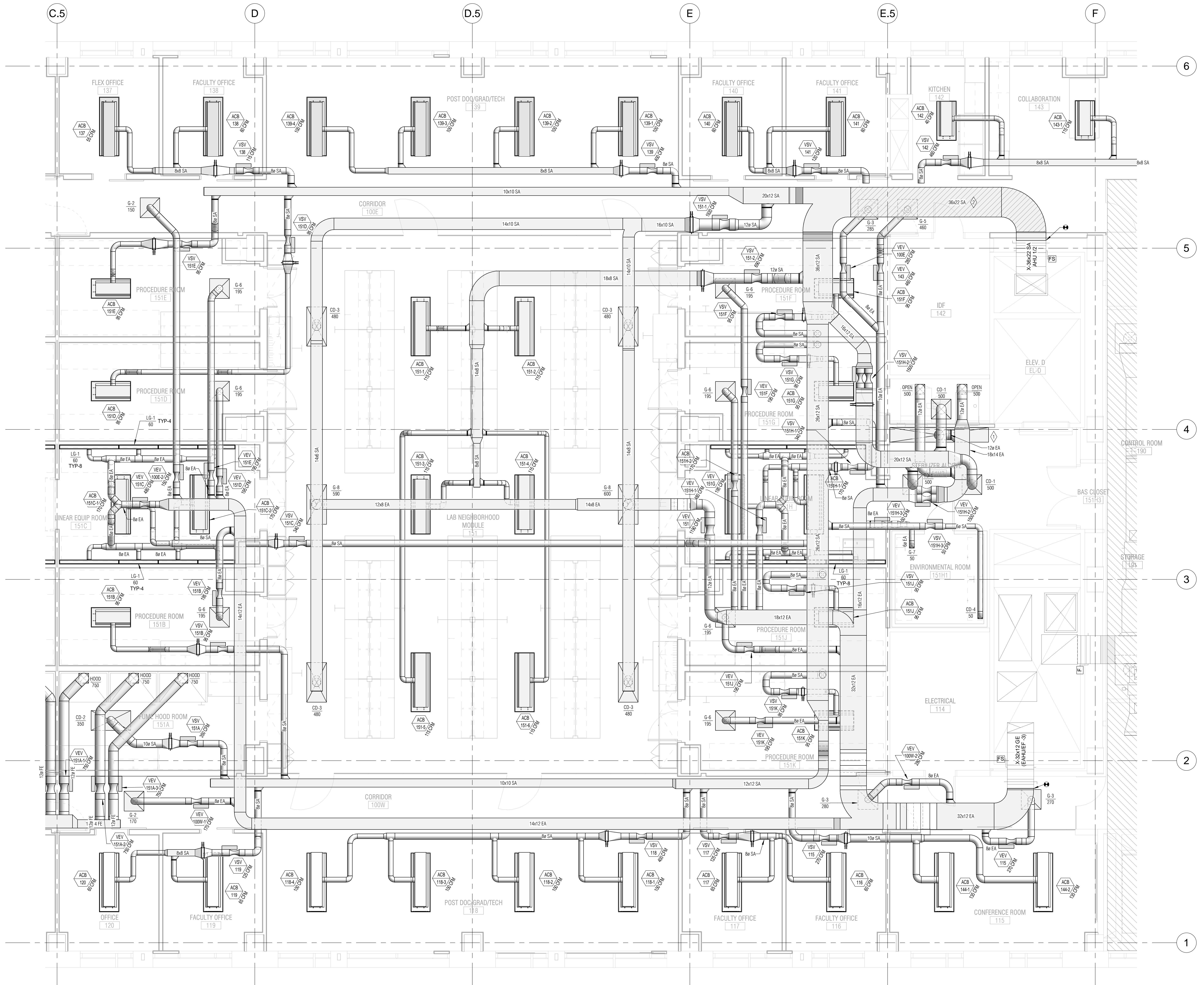
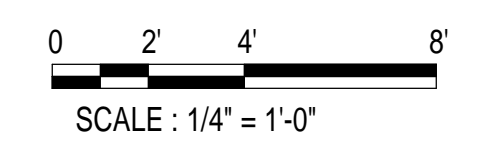
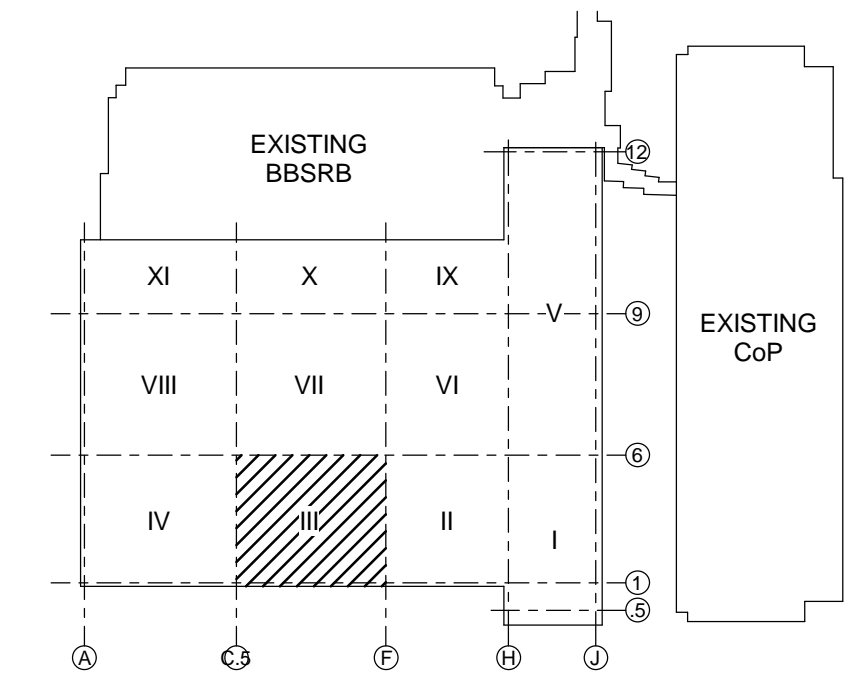
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Project Number
15576

DRAWING
MECHANICAL FIT OUT
VENTILATION LEVEL
ONE FLOOR PLAN
AREA III

SHEET NO.
MF-251 III

KEY PLAN



GENERAL NOTES

1. PROVIDE BALANCING DAMPER AT EACH DIFFUSER, GRILLE, AND BRANCH TAKEOFF IN ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK. LOCATE BALANCING DAMPER AS CLOSE TO BRANCH TAKEOFF AS POSSIBLE.
2. DUCT SIZE TO DIFFUSERS, REGISTERS, AND GRILLES SHALL BE SAME AS NECK SIZE UNLESS OTHERWISE NOTED.
3. DUCT SIZE TO AIR TERMINAL DEVICES SHALL BE SAME AS AIR TERMINAL INLET UNLESS OTHERWISE NOTED.
4. LOCATION OF CEILING MOUNTED DIFFUSERS, REGISTERS AND GRILLES SHALL BE AS SHOWN ON ARCHITECTURAL REFLECTED CEILING PLANS (RCP). MAKE ADJUSTMENTS TO DUCT LAYOUT AS NECESSARY TO COORDINATE WITH RCP.
5. MAINTAIN WORKING CLEARANCE ON CONTROLLER SIDE OF EACH AIR TERMINAL UNLESS OTHERWISE SHOWN. COORDINATE PIPING AND OTHER TRADES TO MAINTAIN ACCESS TO CONTROLLER.
6. FLEXIBLE DUCT MAY NOT BE SHOWN. FLEXIBLE DUCT MAY BE USED FOR CONNECTIONS TO SUPPLY DIFFUSERS ABOVE ACCESSIBLE CEILING PER SECTION 23 3114. FLEXIBLE DUCT SHALL NOT EXCEED SIX FEET. FLEXIBLE DUCT SHALL NOT BE USED FOR EXHAUST SYSTEMS. REFER TO SECTION 23 3114 FOR ADDITIONAL REQUIREMENTS.
7. CRITICAL DAMPER LOCATIONS ARE SHOWN TO ENSURE PROPER LOCATION AND ACCESS. PROVIDE DAMPERS PER GENERAL NOTE 1 WHETHER SHOWN OR NOT.
8. PROVIDE 12" MINIMUM STRAIGHT LENGTH OF DUCT BETWEEN SUPPLY AIR TERMINAL AND REHEAT COIL FOR ACCESS PANEL.
9. ALL NON-FIRE/SMOKE DAMPERED EXHAUST DUCTS SHALL BE COATED WITH CONQUEST-FIRESPRAY FROM THE POINT THEY ENTER THE RATED SHAFT TO THE UNDERSIDE OF THE ROOF SLAB.
10. REFER TO AIR TERMINAL DEVICE SCHEDULES FOR SOUND ATTENUATING DEVICE REQUIREMENTS.
11. PROVIDE COMBINATION FIRE SMOKE DAMPER AT ALL DUCT PENETRATIONS TO SHAFTS.
12. REFER TO SPECIFICATIONS FOR COMPLETE PROJECT SCOPE.
13. REFER TO DETAILS ON SHEETS MF850-MF853.
14. REFER TO SCHEDULES ON SHEETS MF958-MF959.

KEYED NOTES

1. RELOCATE EXISTING COMBINATION FIRE/SMOKE DAMPER ACTUATOR INSIDE THE DUCT TO INSURE ACCESSIBILITY.

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HEALTHY KENTUCKY
RESEARCH BUILDING

UNIVERSITY OF
KENTUCKY

CONSTRUCT
RESEARCH BUILDING
(FIT-UP TWO WET LABS)

UK Project Number 2538.0

ISSUANCES

No.	Description	Date
1	DD ISSUANCE - NH	02/05/20
2	CD ISSUANCE - NH	04/14/20
3	BID & PERMIT - NH	05/22/20

Drawn By

TFM

Checked By

DMS

Client Number

514

Project Number

15576

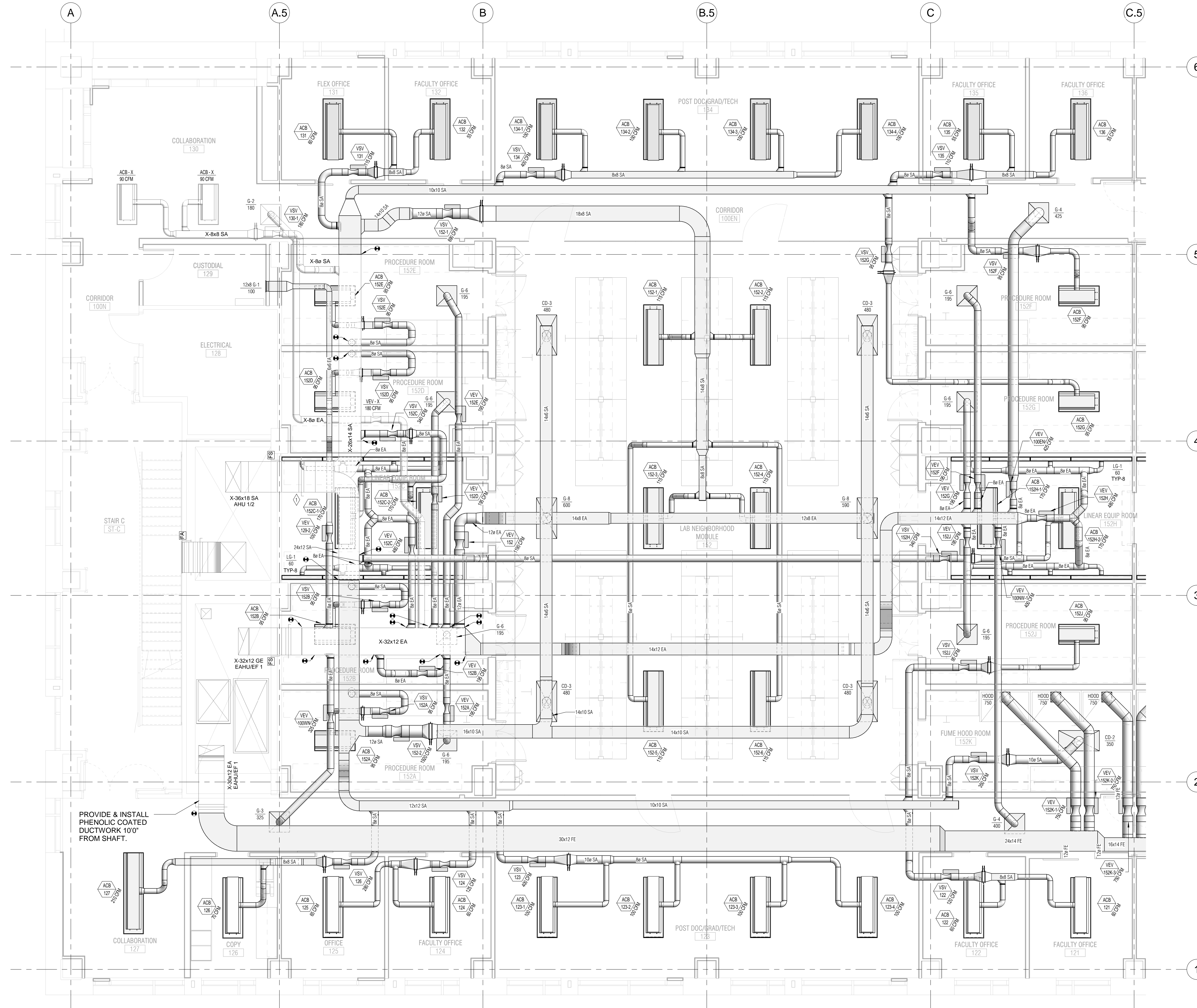
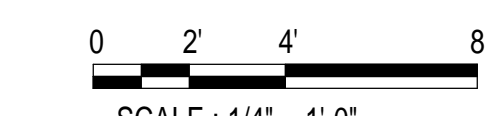
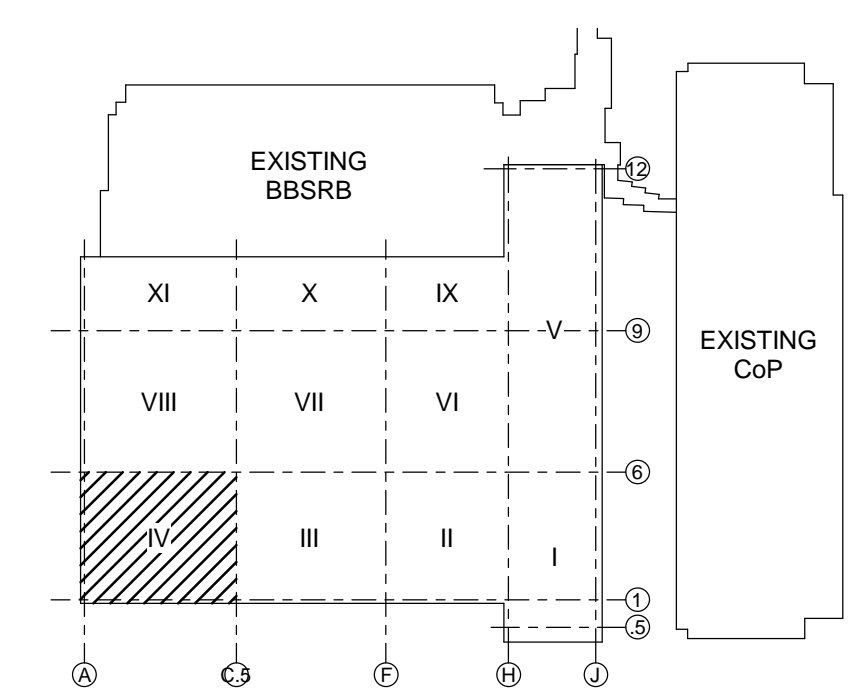
DRAWING
MECHANICAL FIT OUT
VENTILATION LEVEL
ONE FLOOR PLAN
AREA IV

SHEET NO.

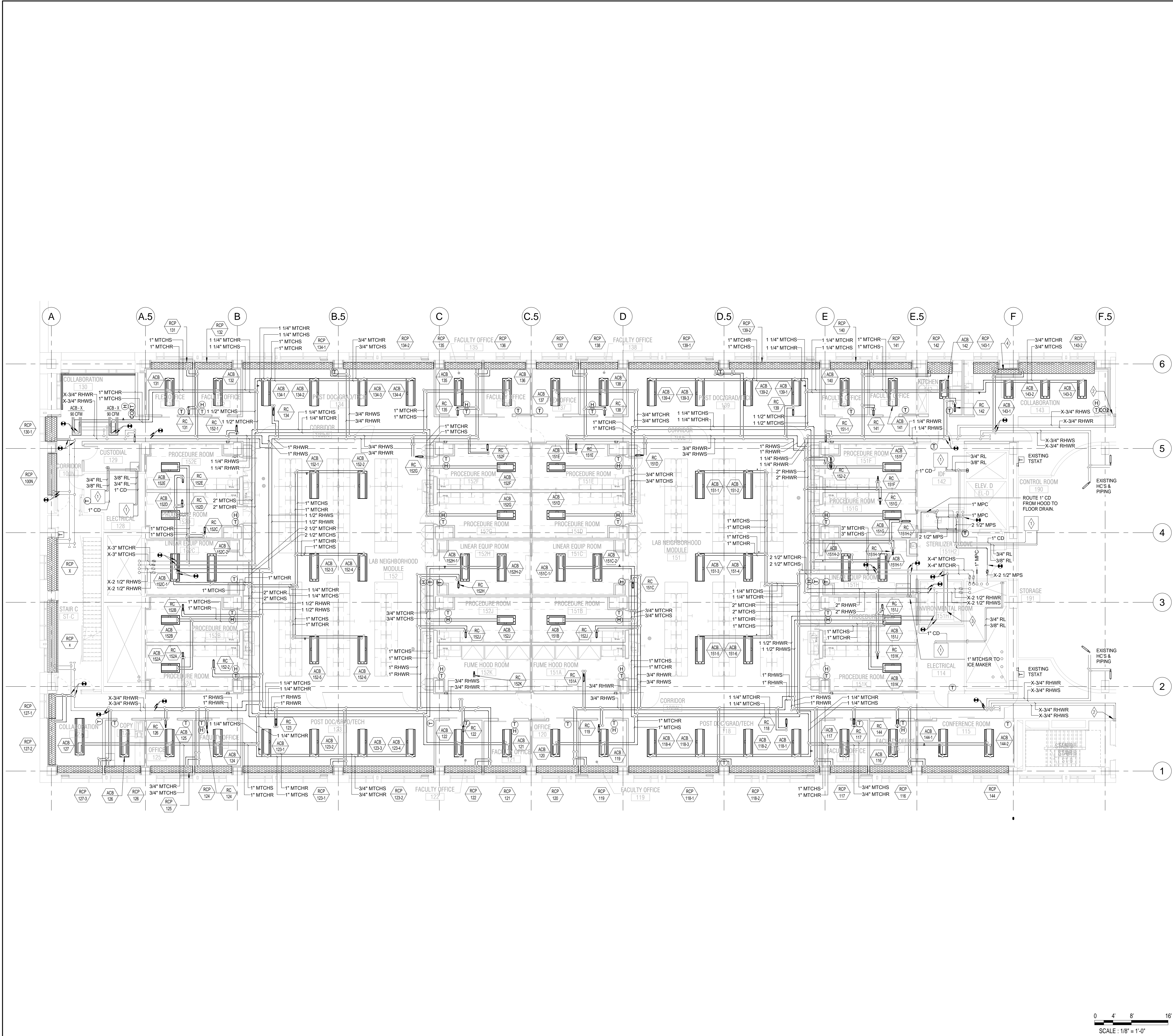
MF-251 IV

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KEY PLAN



PROVIDE & INSTALL
PHENOLIC COATED
DUCTWORK 100"
FROM SHAFT.



GENERAL NOTES

- BRANCH PIPING TO TERMINAL UNITS SHALL BE 3/4" UNLESS OTHERWISE NOTED.
- ALL PIPE PENETRATIONS THROUGH 1-HOUR RATED PARTITIONS SHALL BE FIRESTOPPED PER UL DETAILS TO ACHIEVE A 1-HOUR RATING.
- DRAIN PIPING SHALL BE SLOPED DOWN IN THE DIRECTION OF FLOW AT 1/8" PER 1'-0".
- COORDINATE EXACT LOCATION OF WALL MOUNTED THERMOSTATS, HUMIDISTATS AND CARBON DIOXIDE SENSORS WITH ARCHITECTURAL PLANS AND ELEVATIONS. MINIMUM MOUNTING HEIGHT TO BE 48" AFF.
- CONTROL VALVE LOCATIONS ARE ONLY SHOWN FOR CONTROL ZONES SERVING MULTIPLE CHILLED BEAMS. ALL OTHER CHILLED BEAMS SHALL OPERATE INDEPENDENTLY AND BE PROVIDED WITH MODULATING CONTROL VALVES ON A ONE-TO-ONE BASIS.
- REFER TO SPECIFICATIONS FOR COMPLETE PROJECT SCOPE.
- REFER TO DETAILS ON SHEETS MF350-MF355.
- REFER TO SCHEDULES ON SHEETS MF358-MF369.

KEYED NOTES

- EXISTING TO REMAIN VARIABLE REFRIGERANT FLOW (VRF) COOLING UNIT AND ALL ASSOCIATED PIPING AND APPURTENANCES.
- EXISTING REHEAT WATER PIPING TO EXISTING FIN TUBE. COORDINATE SHUT-DOWN OF SYSTEM WITH OWNER PRIOR TO DEMOLITION AND INSTALLATION OF REHEAT WATER PIPING MAINS.
- 1" MTCHS TO DEHUMIDIFICATION UNIT.
- NON-ACTIVE PANEL. COORDINATE LOCATION AND SIZE WITH ARCHITECTURAL DRAWINGS.

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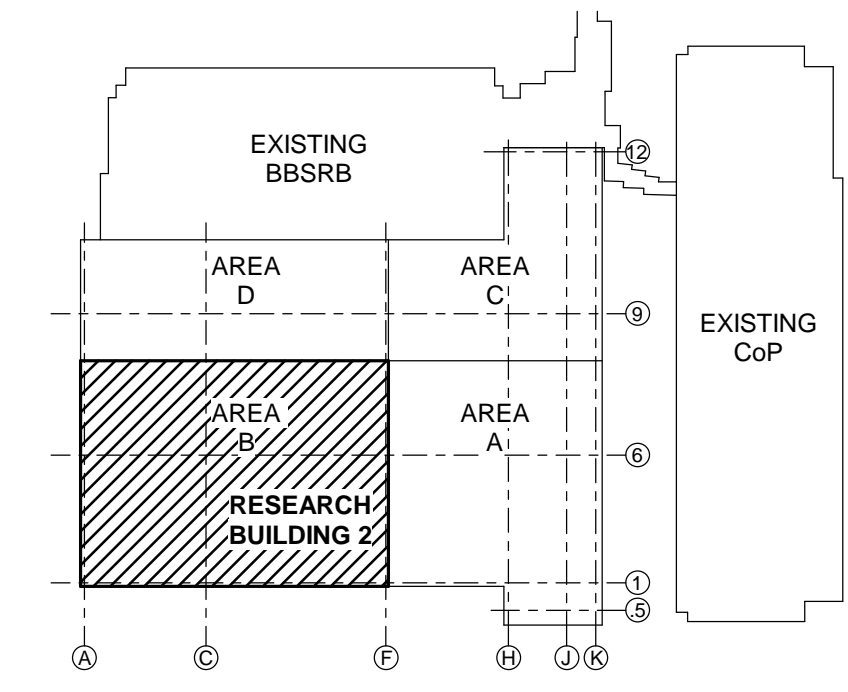
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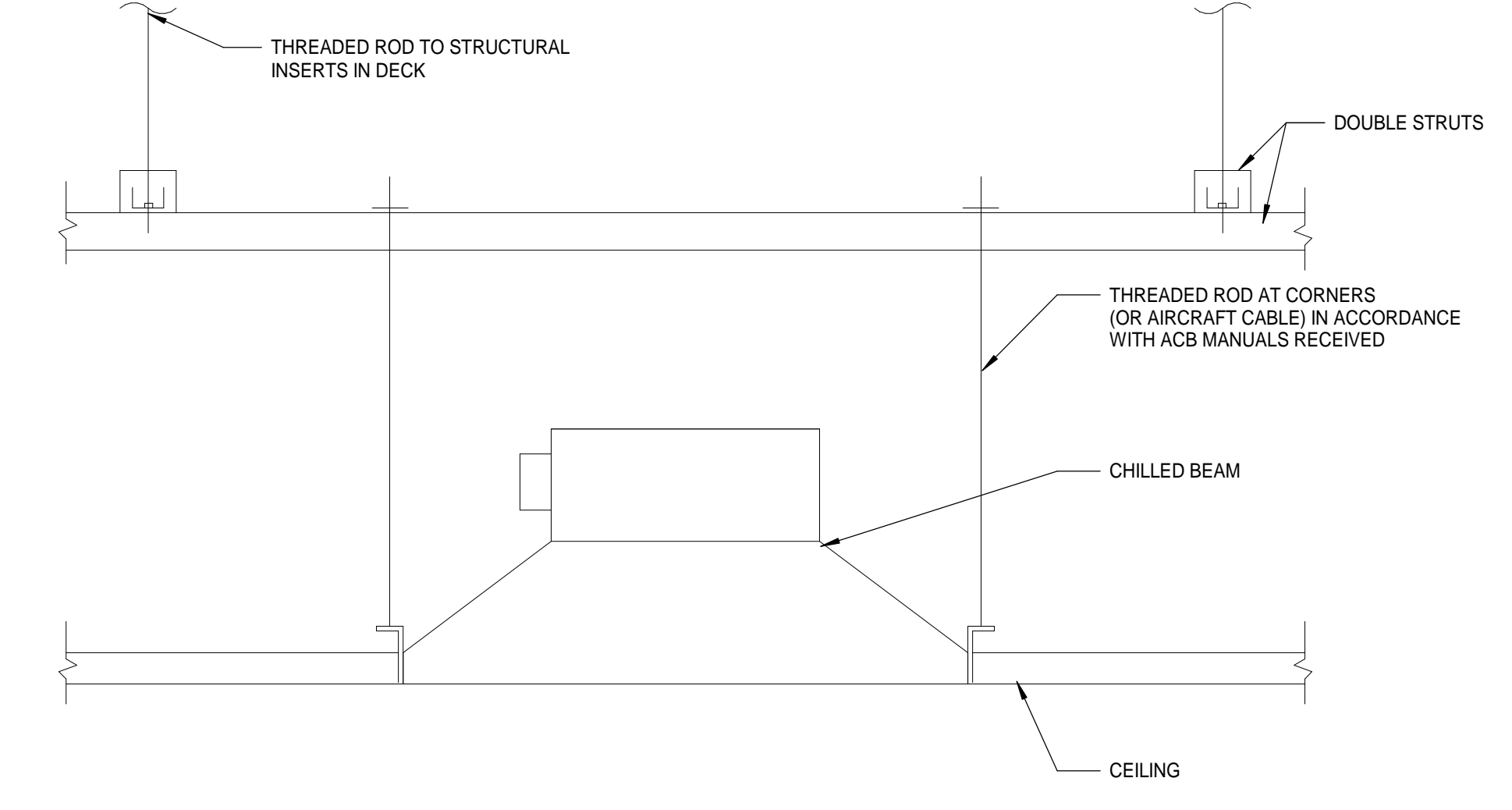
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Drawn By: **TFM**
 Checked By: **DMS**
 Client Number: **514**
 Project Number: **15576**
DRAWING
MECHANICAL FIT OUT PIPING LEVEL ONE FLOOR PLAN AREA B
 SHEET NO. **MF-351B**



1 MECHANICAL PIPING LEVEL ONE FLOOR PLAN AREA B
 MF-351B 1/8" = 1'-0"

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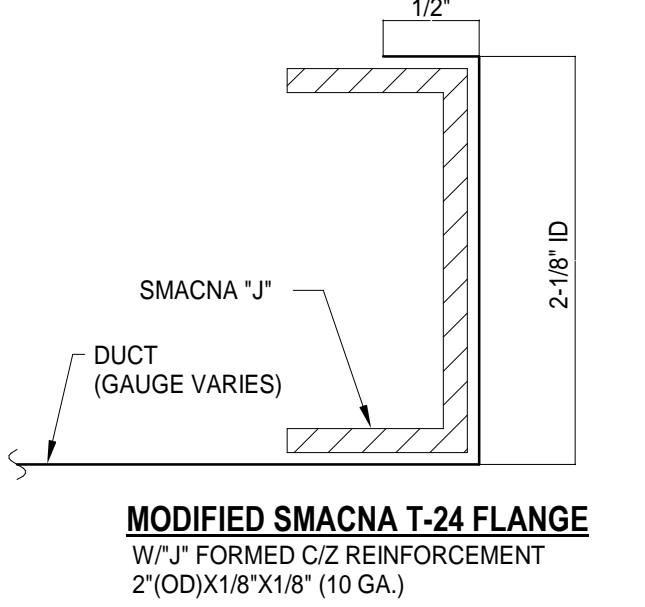
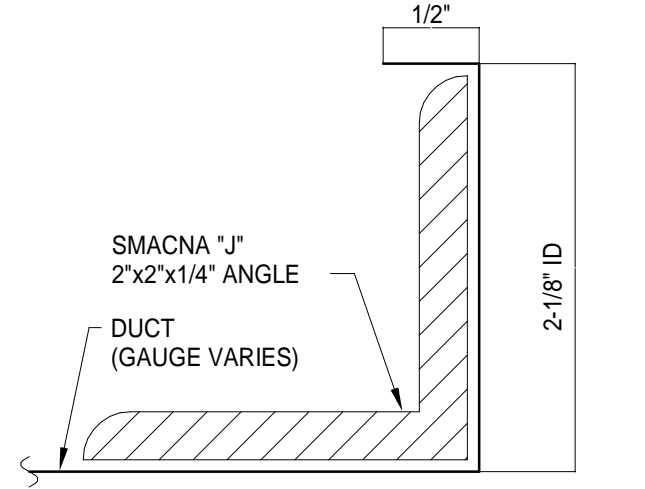
7 CHILLED BEAM SUPPORT
MF-854 NONE

DUCT DIMENSION	TRANSVERSE JOINT REINFORCEMENT SPACING 42 3/4" (4'-0")	MIN. DUCT GAUGE	DUCT MATERIAL
20" DN	T-24 (M) W/J	24 GA.	REFER TO SPECIFICATION SECTIN 23 31 14
21"-36"	T-24 (M) W/J	22 GA.	
37"-42"	T-24 (M) W/J	20 GA.	
43"-54"	T-24 (M) W/J	18 GA.	

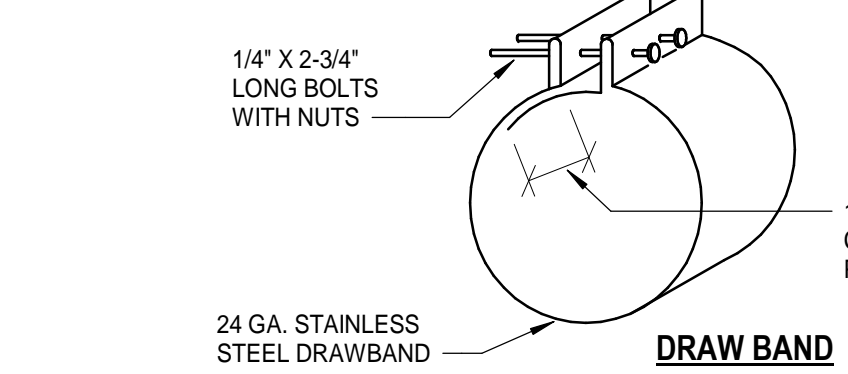
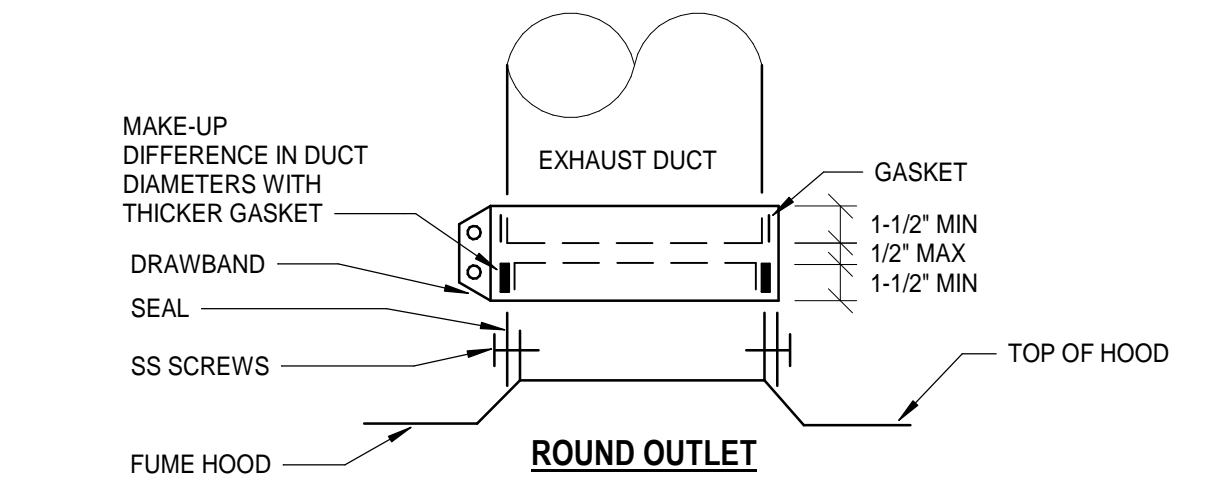
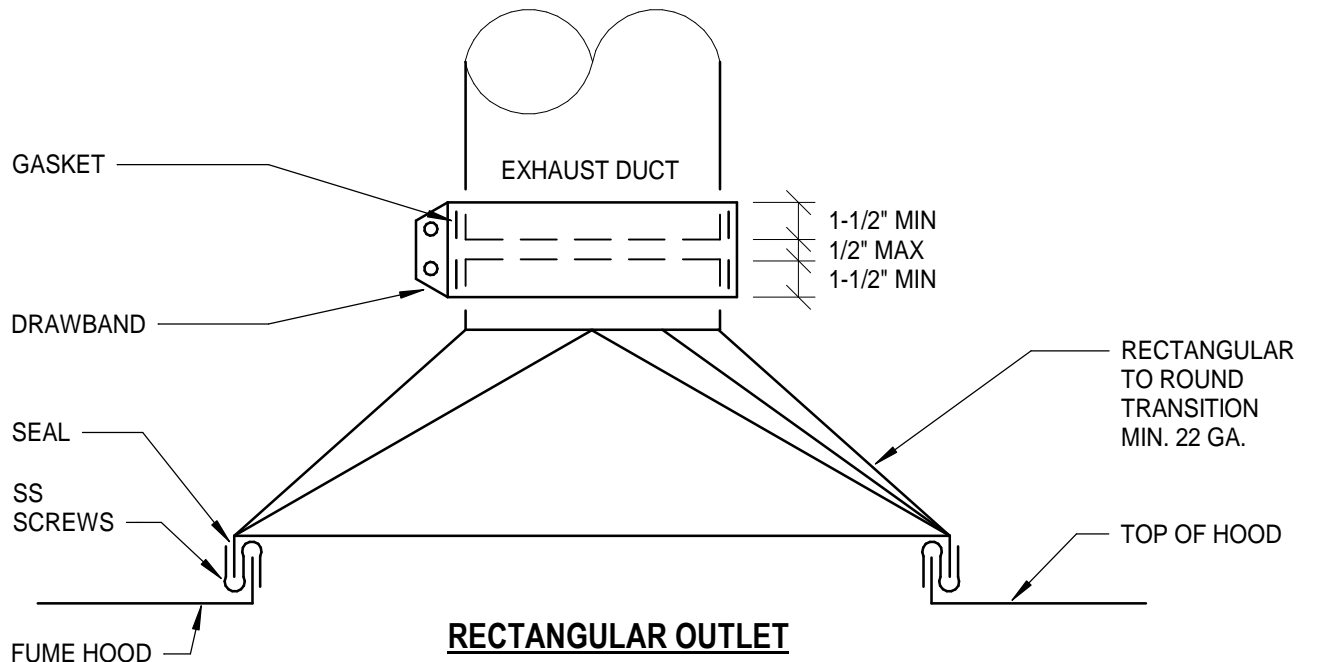
M = MODIFIED. AS SHOWN BELOW (RIGHT).

NOTES:

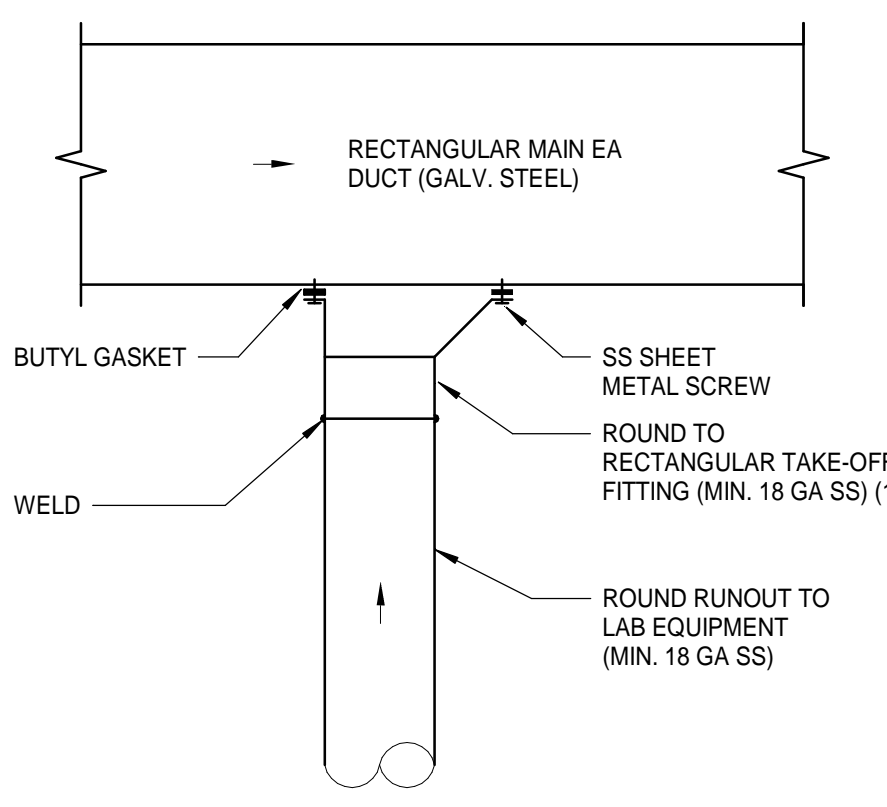
- (1) USE TRANSVERSE REINFORCEMENTS (SHOWN RIGHT) TO ENCAPSULATE THE MODIFIED T-24 FLANGE THAT IS FORMED FROM 48" WIDE SHEET METAL ROLL OR FLAT SHEET STOCK. USE "J" REINFORCEMENTS BACK TO BACK ON ADJACENT SIDES WITH FULLY LAPPED 3/8" BOLTED CORNERS. SEAL CORNER OF DUCT WITH CHEMICAL RESISTANT SEALANT. BOLT (1/4" Ø 8" INTERVALS) OR SCREW (1/8" Ø INTERVALS) 3" REINFORCEMENTS AROUND ENTIRE PERIPHERY OF EACH TRANSVERSE JOINT.
- (2) NO INTERMEDIATE REINFORCEMENT IS REQUIRED.
- (3) NO SCREWS THROUGH DUCT, UNLESS SEALED AS SPECIFIED.
- (4) USE TRAPEZE SUPPORT HANGERS FOR RECTANGULAR FUME HOOD DUCTWORK.
- (5) USE BUTYL GASKET AROUND OUTSIDE HALF OF FLANGE FACE. AFTER FLANGES OF SECTIONS ARE MATED TOGETHER, FILL INSIDE GAP BETWEEN FLANGES WITH DUCT SEALANT



4 FUME HOOD EXHAUST DUCT (RECTANGULAR)
MF-854 NONE

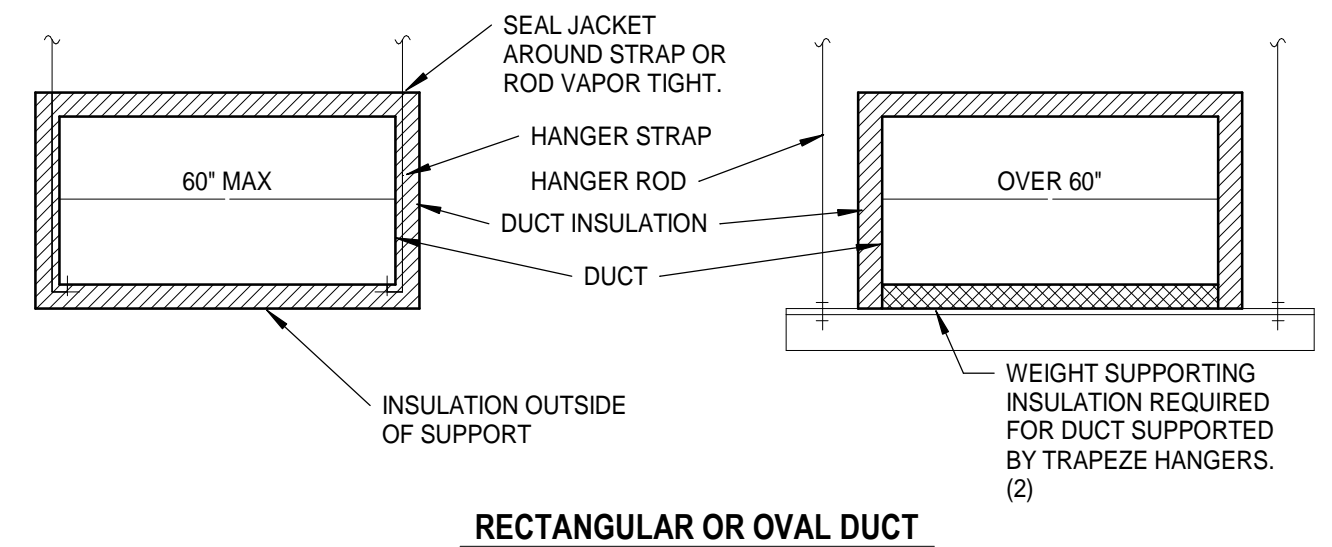


5 FUME HOOD OUTLET CONNECTION (REMOVABLE)
MF-854 1/2" = 1-0"

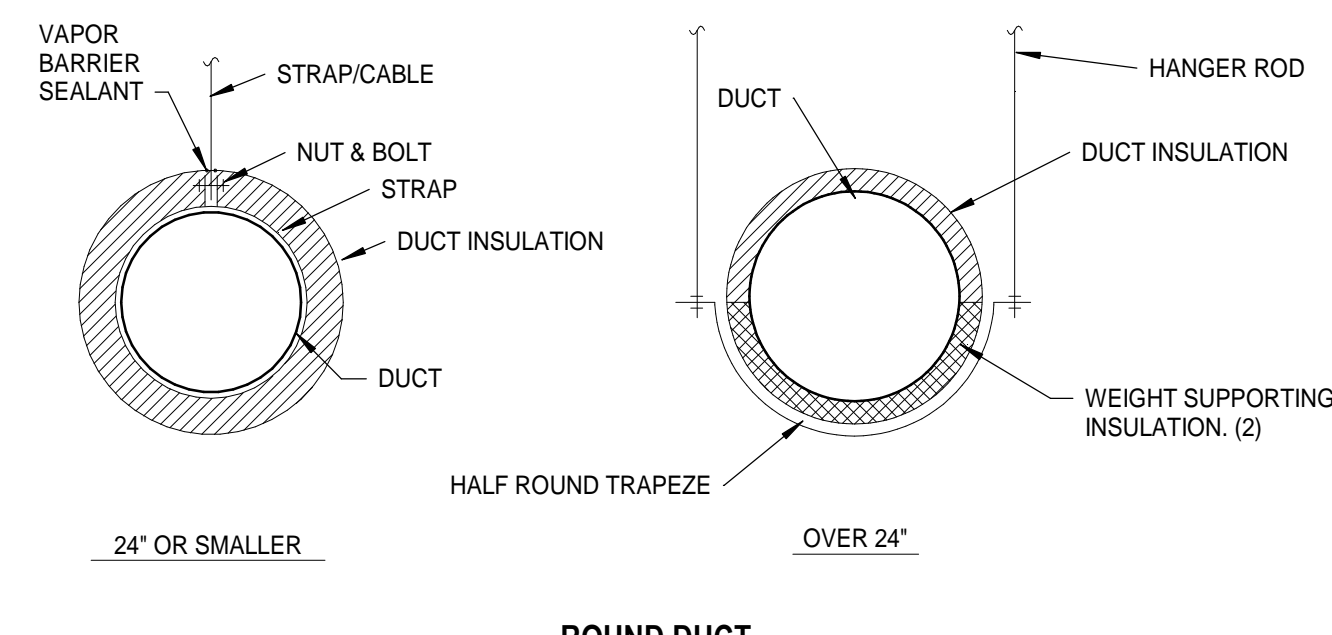


- NOTES:**
(1) USE CONICAL TAKE-OFF FITTING IF MAIN DUCT IS ROUND.

6 BRANCH DUCT TAKE-OFF FITTING FOR FH EA DUCT
MF-854 NONE



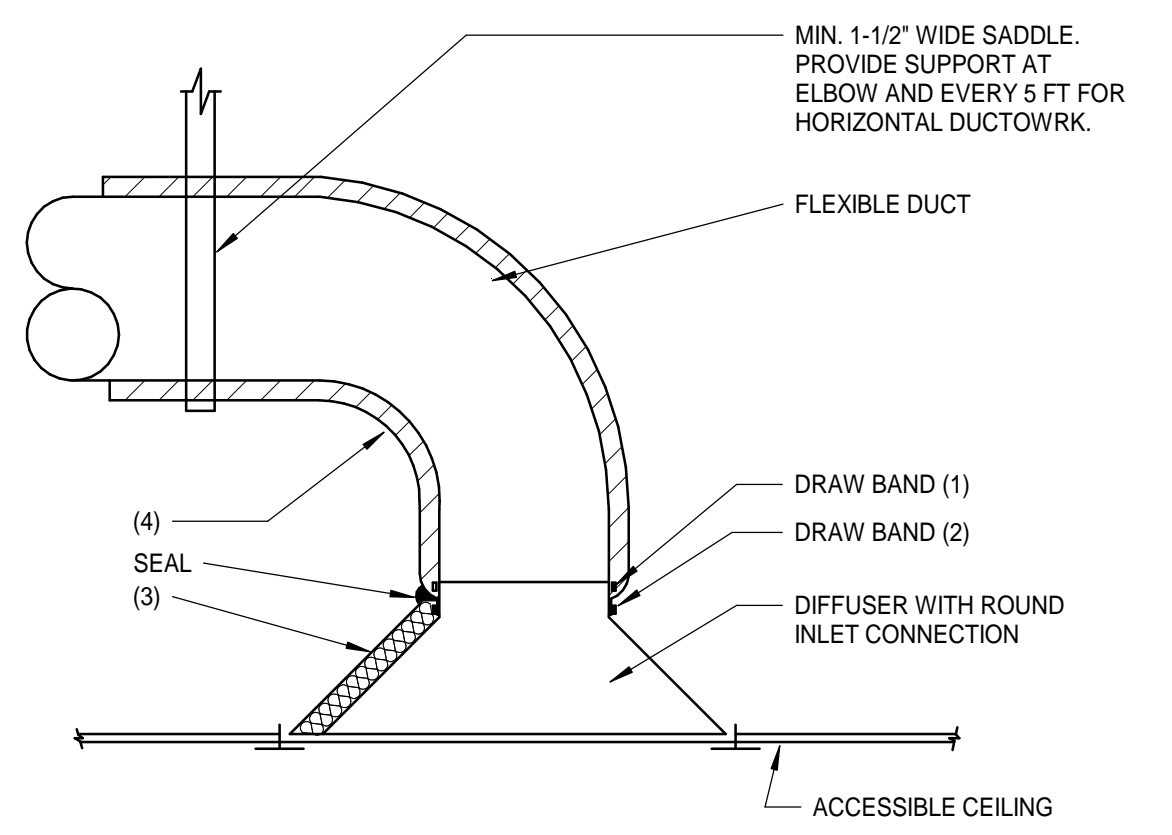
RECTANGULAR OR OVAL DUCT



ROUND DUCT

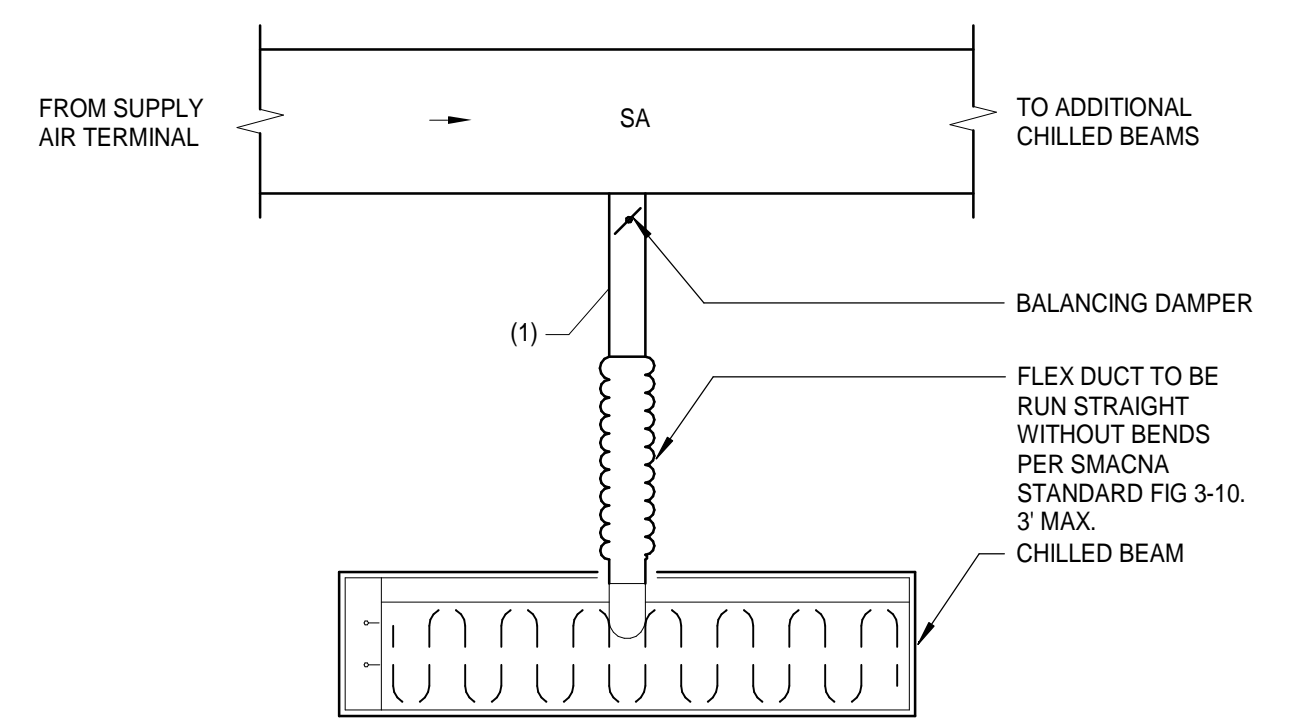
- NOTES:**
(1) INSULATION AND JACKET MUST RUN CONTINUOUSLY BETWEEN DUCT AND DUCT SUPPORTS. EXCEPT ROUND DUCTS 24" OR SMALLER.
(2) WEIGHT SUPPORTING INSULATION TO BE HAMFAB INSERTS OR FOAMGLAS INSULATION (TYPE-G). HAMFAB INSERT FOR ROUND DUCTS SHALL BE MULTIPLE INSERTS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATION. REFER TO SPECIFICATION SECTION 23 07 00 FOR WEIGHT SUPPORTING INSULATION REQUIREMENTS.

1 INSULATED DUCT SUPPORTS (FLEX GLASS FIBER INSUL TYPE-F)
MF-854 NONE



- NOTES:**
(1) PULL FLEXIBLE DUCT'S INNER LINER OVER DIFFUSER COLLAR AND SECURE WITH DRAW BAND.
(2) SECURE FLEXIBLE DUCT INSULATION AND OUTER JACKET WITH DRAW BAND.
(3) REFER TO SECTION 23 31 14 FOR DIFFUSER INSULATION REQUIREMENT.
(4) MAINTAIN MIN. 1.5 RADIUS ELBOW. ELBOW SUPPORT DEVICE SIMILAR TO FLEXFLOW ELBOW SUPPORT BY THERMAFLEX TO BE USED TO ASSURE RADIUS ELBOW.

2 FLEXIBLE DUCT CONNECTION TO DIFFUSER
MF-854 NONE



- NOTES:**
(1) UNLESS OTHERWISE SHOWN ON PLANS, RUNOUT SHALL BE SAME SIZE AS CHILLED BEAM INLET SIZE.

3 CHILLED BEAM DUCT CONNECTION
MF-854 NONE

ISSUANCES

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1	CD ISSUANCE - NH	04/14/20
2	BID & PERMIT - NH	05/22/20

Drawn By
TFM

Checked By
DMS

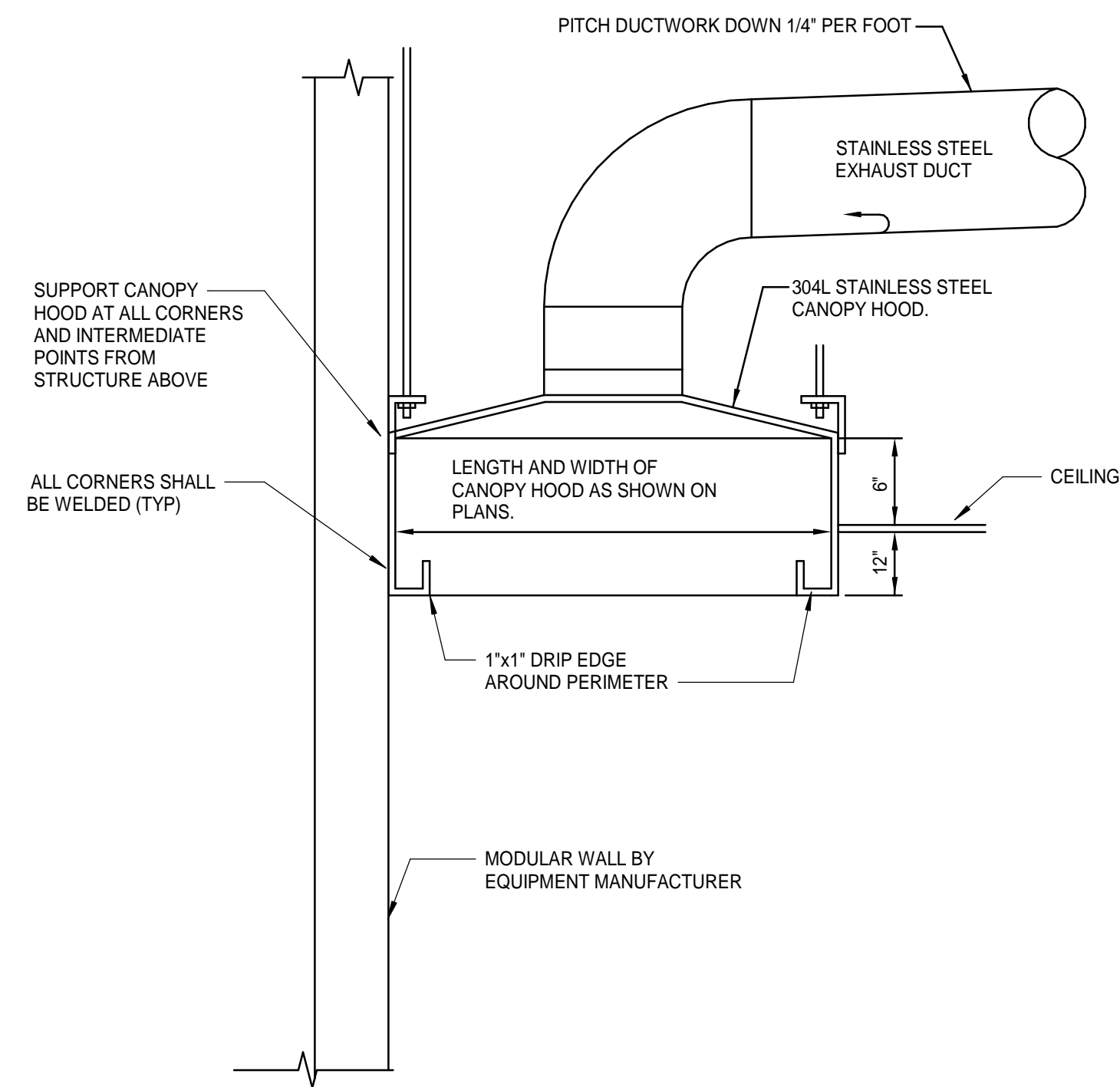
Client Number
514

Project Number
15576

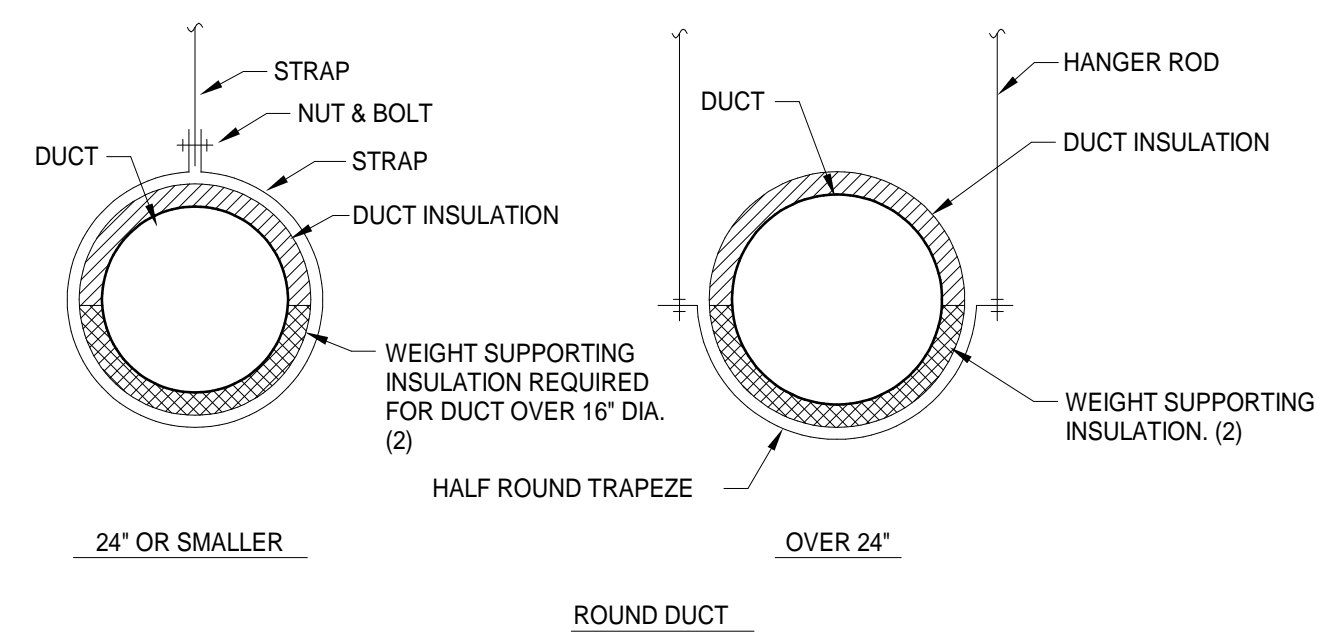
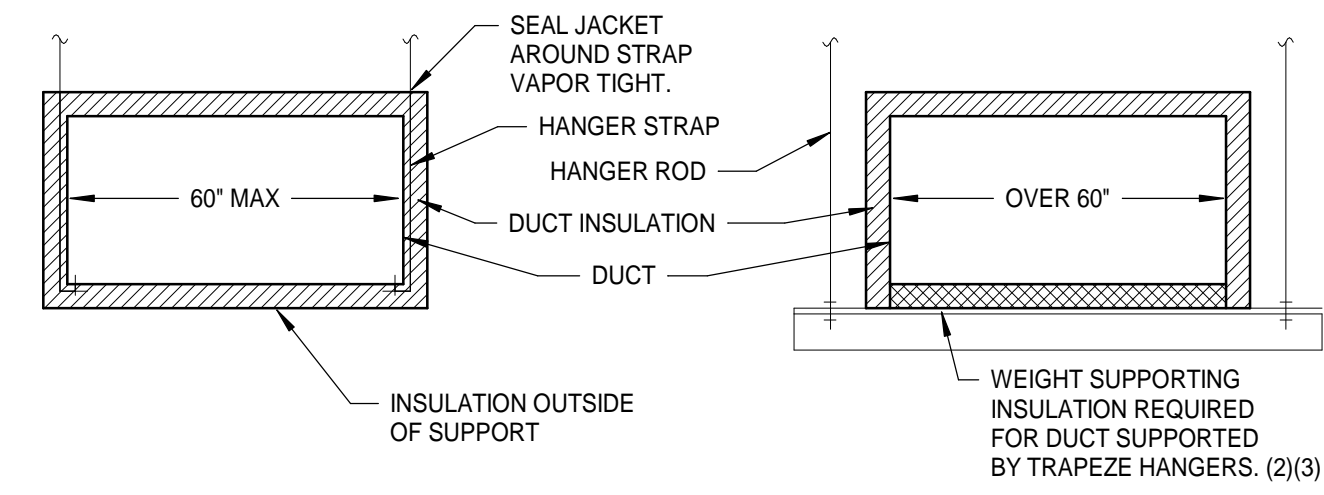
DRAWING

MECHANICAL DETAILS
- DUCTWORK

SHEET NO.
MF-854

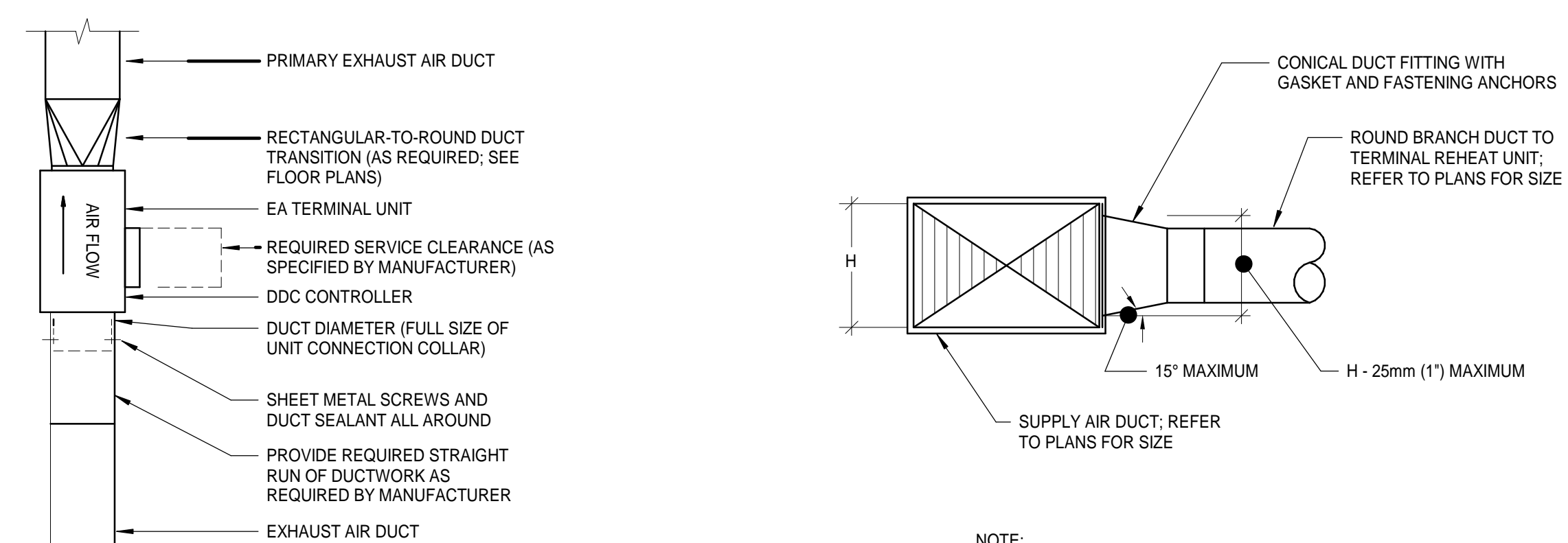


7 LAB STERILIZERS AND GLASSWASH CANOPY HOOD
MF-855 1/2" = 1'-0"



- NOTES:
- (1) INSULATION AND JACKET MUST RUN CONTINUOUSLY BETWEEN DUCT AND DUCT SUPPORTS.
 - (2) REFER TO SPECIFICATION SECTION 20 0700 FOR WEIGHT-SUPPORTING INSULATION REQUIREMENTS.
 - (3) THIS DETAIL SHALL APPLY FOR DUCTS 60" AND SMALLER IF TRAPEZE HANGERS ARE USED.

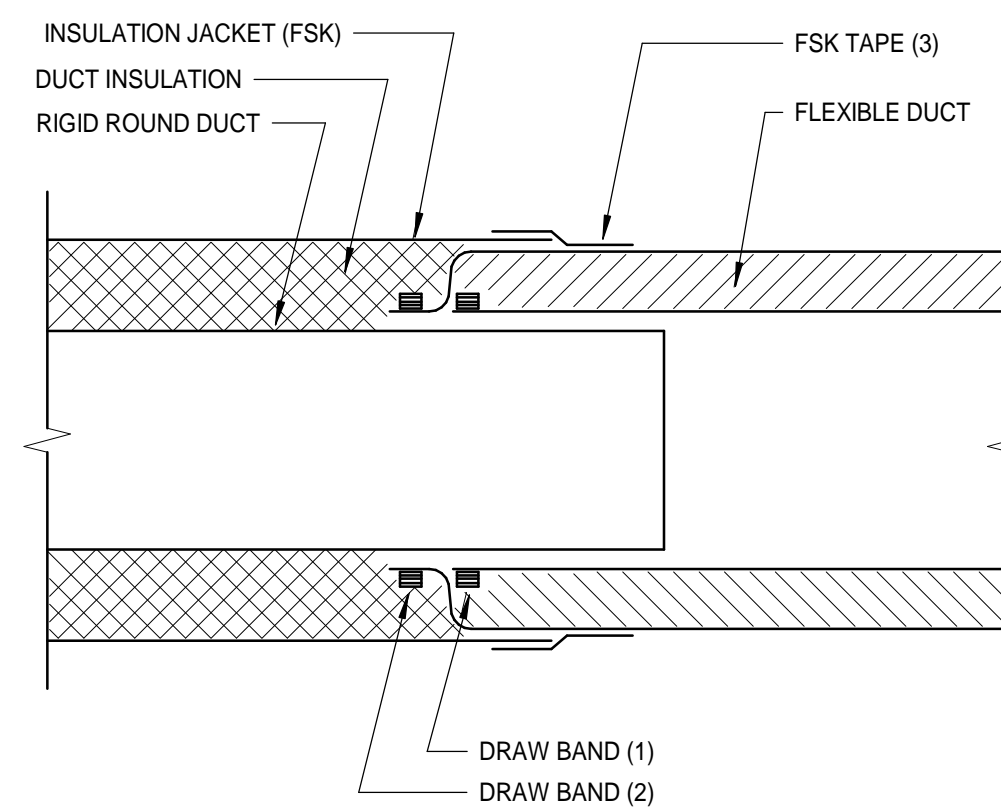
8 INSULATED DUCT SUPPORTS (RIGID GLASS FIBER INSUL. TYPE-R)
MF-855 1/2" = 1'-0"



NOTE: CONICAL FITTING SHALL BE SEALED PER SPECIFICATIONS.

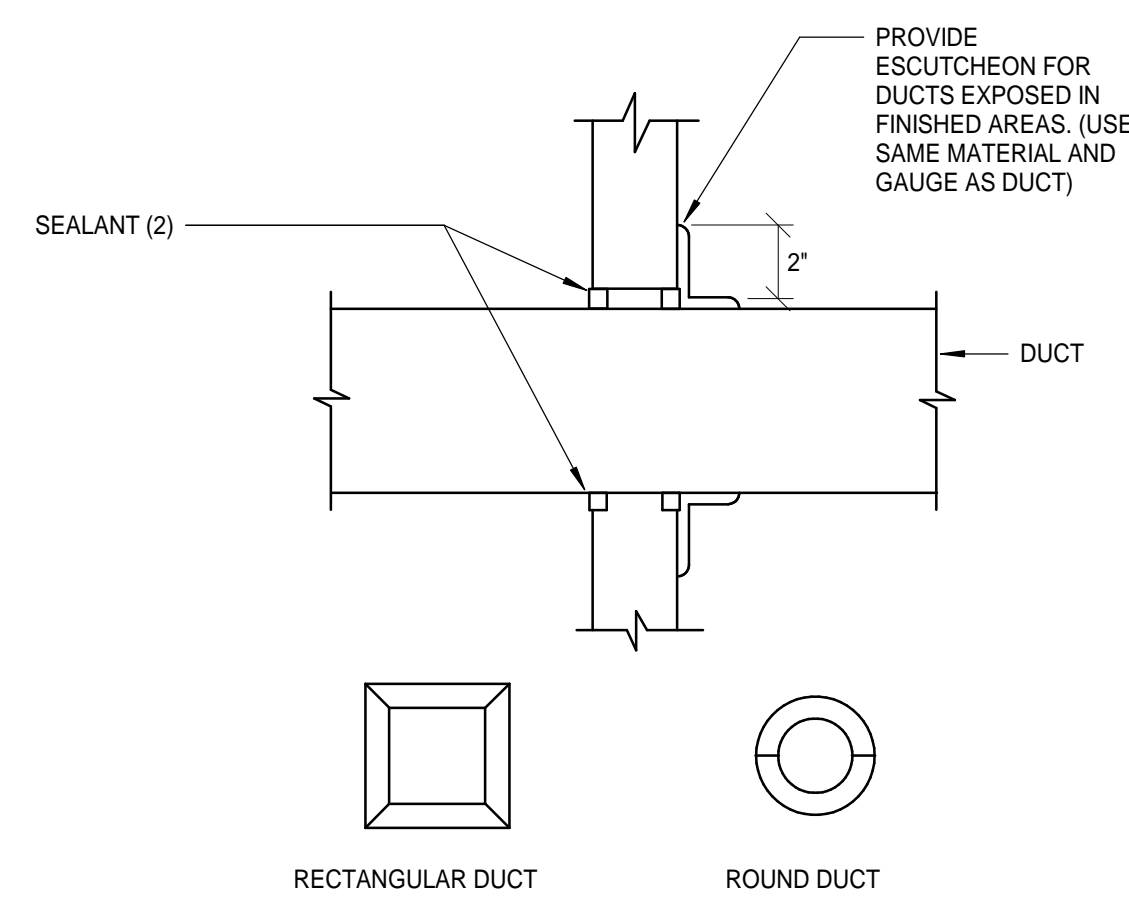
10 EXHAUST AIR TERMINAL UNIT DETAIL
MF-855 1/2" = 1'-0"

9 CONICAL DUCT FITTING
MF-855 1/2" = 1'-0"



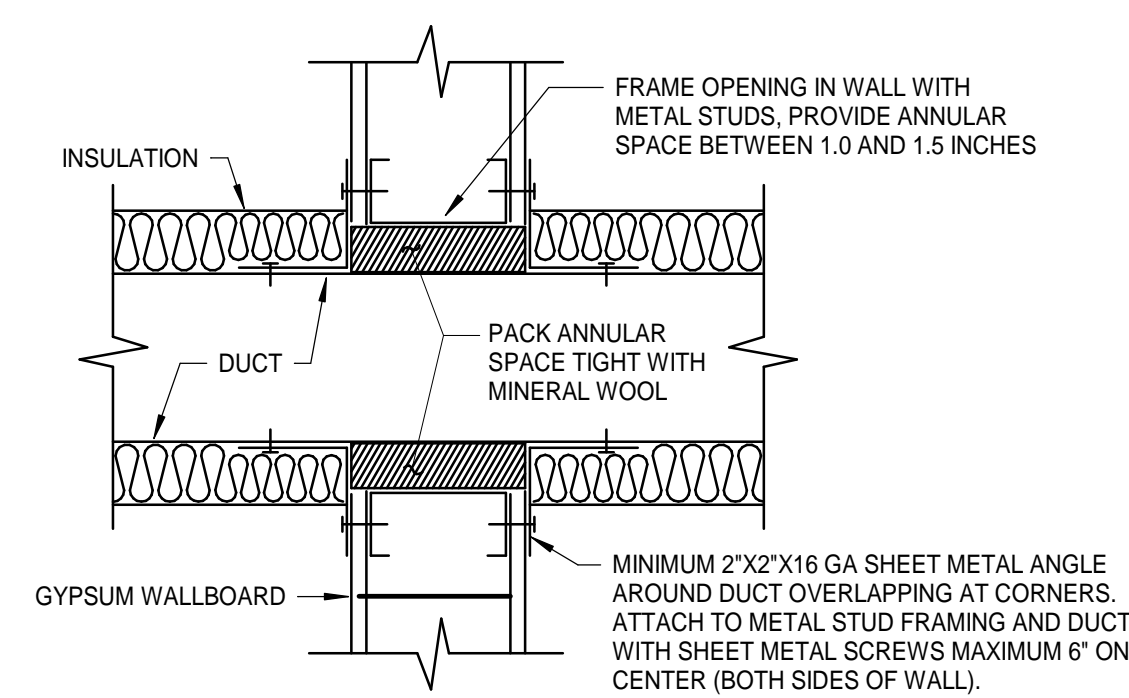
- NOTES:
- (1) PULL FLEXIBLE DUCT INNER LINER OVER RIGID DUCT WITH MINIMUM 4" OVERLAP AND SECURE LINER WITH SS DRAW BAND.
 - (2) SECURE FLEXIBLE DUCT INSULATION AND OUTER JACKET WITH METAL OR PLASTIC DRAW BAND.
 - (3) PULL RIGID DUCT INSULATION AND BUTT JOINT TO TERMINATION OF FLEXIBLE DUCT. APPLY 3" WIDE TAPE SIMILAR TO FSK TAPE TO CREATE VAPOR BARRIER SEAM. TAPE SHALL BE COMPATIBLE WITH FLEXIBLE DUCT INSULATION JACKET AND RIGID DUCT INSULATION JACKET.

4 FLEXIBLE DUCT CONNECTION TO INSUL RIGID ROUND DUCT
MF-855 1/2" = 1'-0"



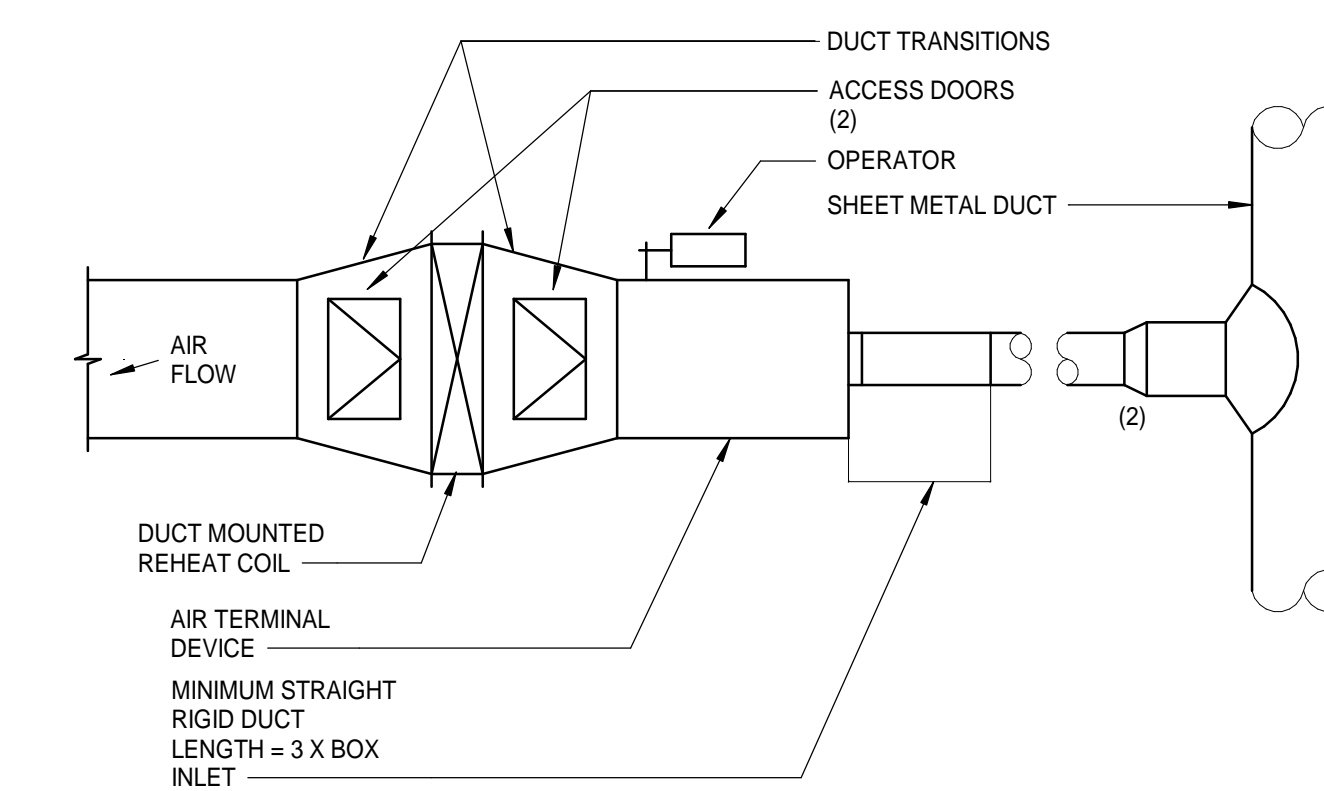
- NOTES:
- (1) THIS DETAIL APPLIES FOR NON-INSULATED DUCTS THRU WALL WHERE FIRE DAMPER IS NOT REQUIRED.
 - (2) WHERE WALL IS FIRE RATED, COMBINATION OF SEALANT AND BACKING MATERIAL SHALL MEET THIS RATING. REFER TO SPECIFICATION SECTION 20 0573 FOR FIRE STOPPING SYSTEM MANUFACTURERS.

5 DUCT PENETRATION THRU INTERIOR WALL (NON-INSULATED DUCTS)
MF-855 1/2" = 1'-0"



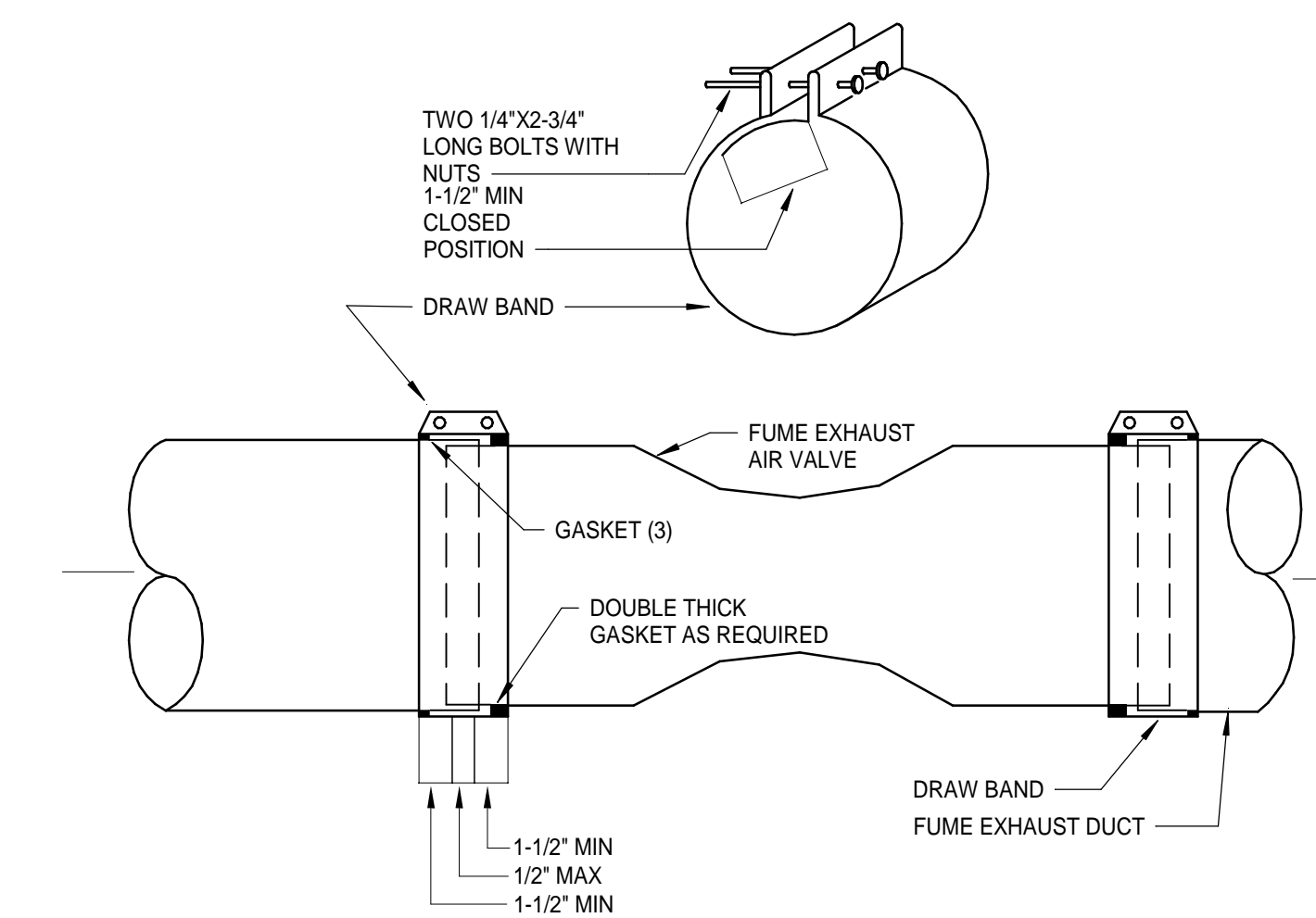
NOTE: THIS DETAIL IS A MINIMUM REQUIREMENT. CONTRACTOR SHALL VERIFY THAT LOCAL AUTHORITIES HAVING JURISDICTION ACCEPT THIS CONSTRUCTION, OR MAKE THE REQUIRED REVISIONS WHERE REQUIREMENTS ARE MORE STRINGENT.

6 DUCT PENETRATION THROUGH STUD WALL
MF-855 1/2" = 1'-0"



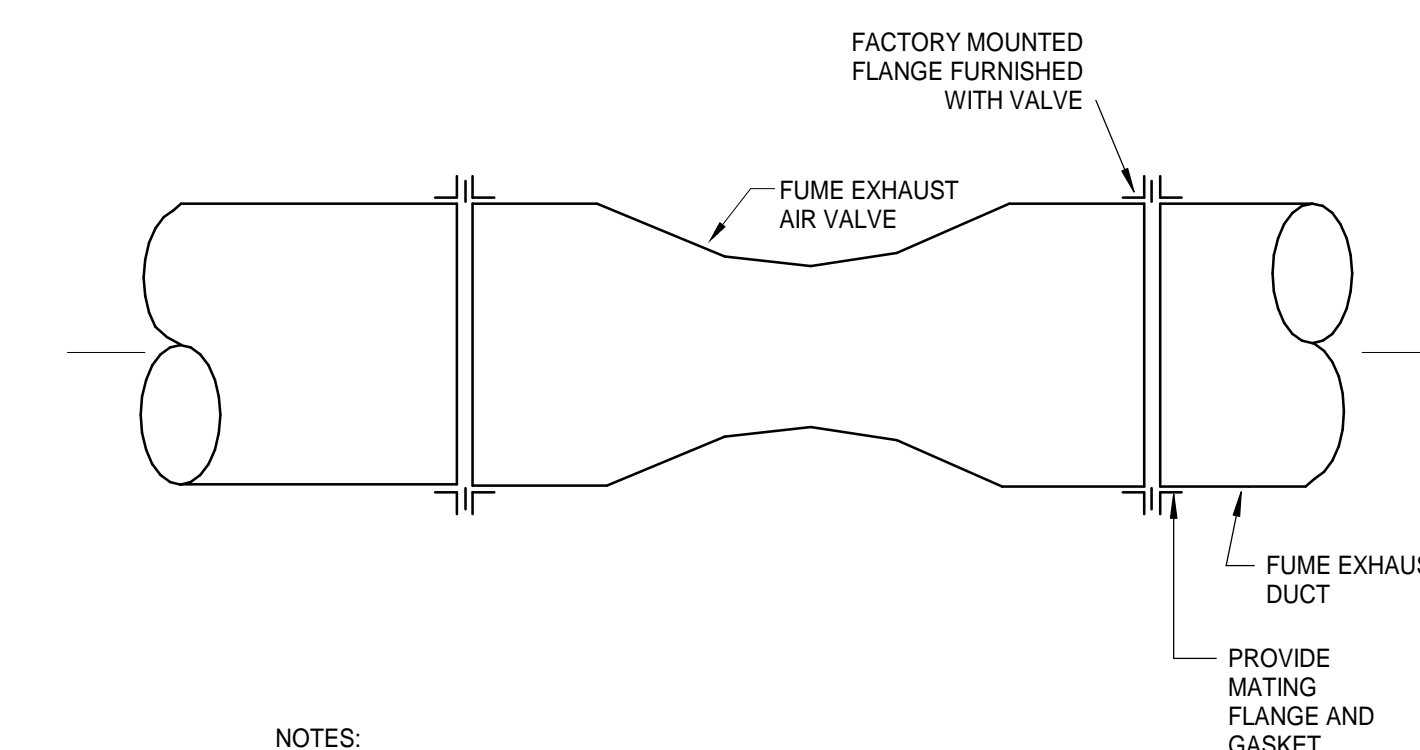
- NOTES:
- (1) REFER TO SECTION 23 3314 FOR ACCESS DOOR.
 - (2) UNLESS OTHERWISE SHOWN, INCREASE INLET DUCT SIZE BY 2 INCHES IN DIAMETER IF RUNOUT IS LONGER THAN 8 FT.

1 AIR TERMINAL DEVICE
MF-855 NONE



- NOTES:
- (1) DRAW BANDS SHALL BE:
 - FURNISHED BY THE VALVE MANUFACTURER AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 - FABRICATED FROM THE SAME MATERIAL AS DUCT SYSTEM.
 - INSTALLED TO PROVIDE TIGHT CHEMICAL SEAL AROUND ENTIRE PERIMETER OF DUCT AND AT DEVICE, WITH DRAW BAND FLANGES IN PARALLEL POSITION AFTER BEING FULLY DRAWN TOGETHER.
 - (2) DRAW BAND GAUGE TO BE MIN. 24 GAUGE.
 - (3) GASKET TO BE UL 94 NEOPRENE THE SAME WIDTH AS DRAWBAND. PROVIDE PTFE ADHESIVE TAPE UNDER GASKET.
 - (4) SUPPORT DUCTWORK ON EACH SIDE OF VALVE WITH HANGER WITHIN 12" OF DRAWBAND.

2 VENTURI AIR VALVE CONNECTION
MF-855 NONE



- NOTES:
- (1) INSTALL ACCORDING TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 - (2) SEALANT AND GASKET TO BE CHEMICAL RESISTANT MATERIAL. REFER TO SPECIFICATION SECTION 23 3114.
 - (3) FOR RECTANGULAR DUCTS, USE DUCTMATE CONNECTOR SYSTEM OR OTHER APPROVED SYSTEM WITH NEOPRENE GASKET AND BOLT AT EACH CORNER.

3 VENTURI AIR VALVE CONNECTION (FLANGE CONNECTION)
MF-855 NONE

ISSUANCES

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1	CD ISSUANCE - NH	04/14/20
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Checked By

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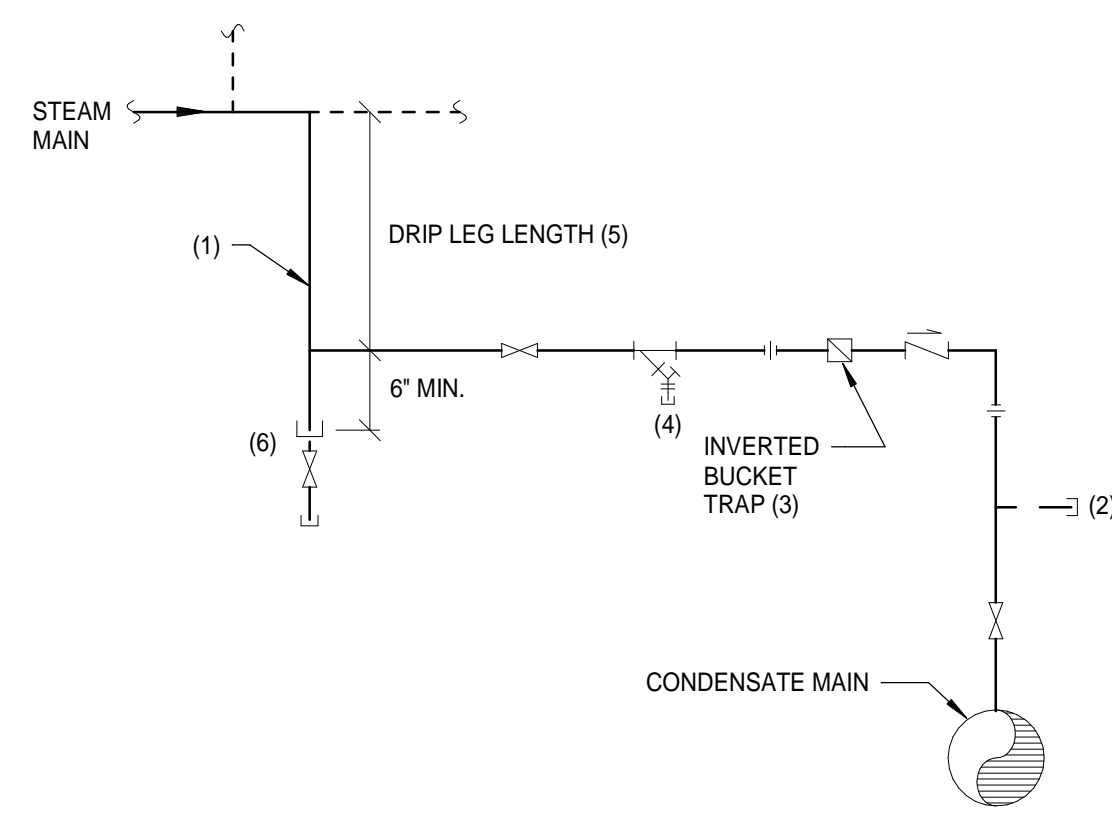
15576

DRAWING

MECHANICAL DETAILS
- DUCTWORK

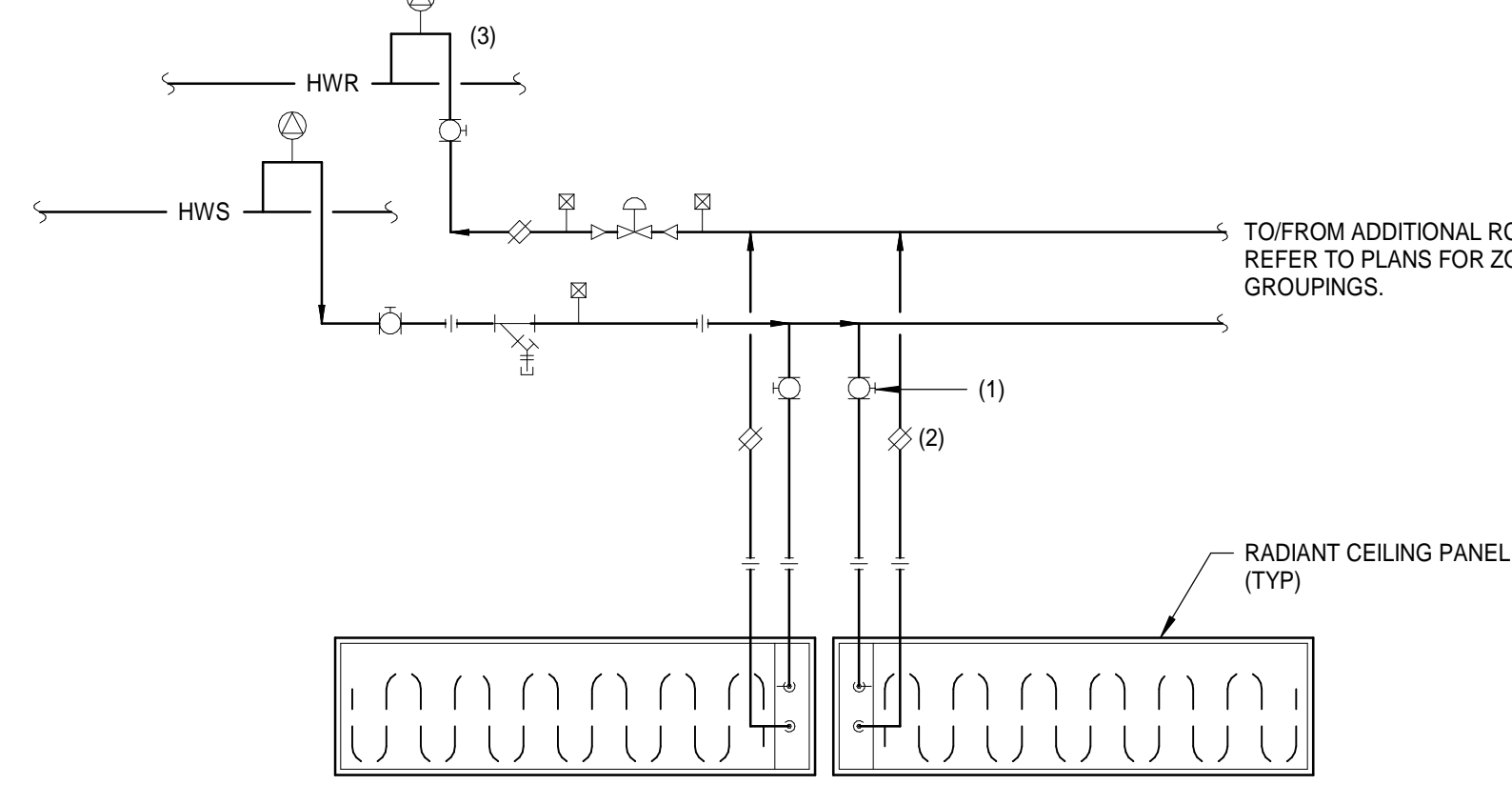
SHEET NO.

MF-855



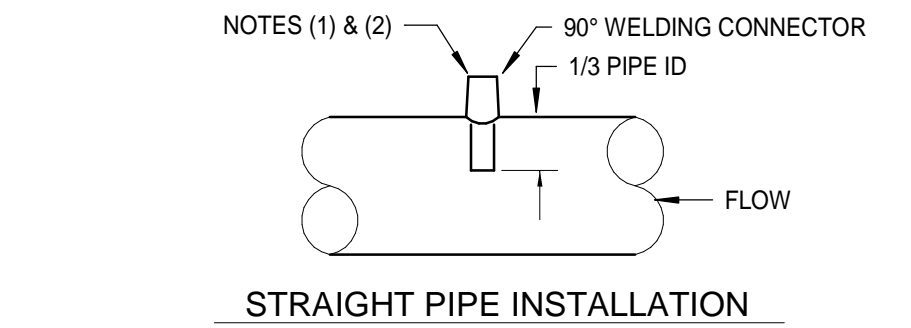
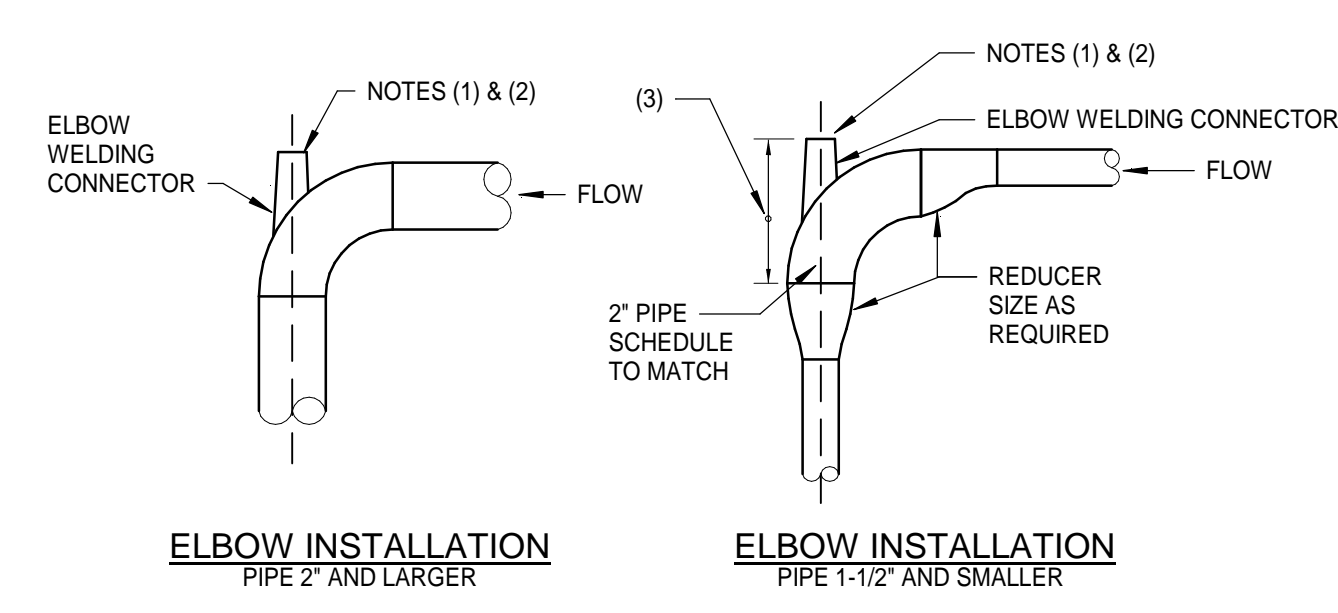
- NOTES:
- (1) DRIP LEG TO BE SAME AS MAIN THRU 4' ABOVE 4'. DRIP LEG TO BE AT LEAST 1/2 MAIN SIZE BUT NOT LESS THAN 4".
 - (2) TEST VALVE WITH 6" NIPPLE AND CAP. TEST VALVE TO BE LINE SIZE, BUT NOT LARGER THAN 1". LOCATE TEST VALVE AT SIDE OF PIPE.
 - (3) DRIP TRAPS - 3/4" FOR MAIN PIPE SIZE THROUGH 8" AND 1" FOR MAIN PIPE 10" AND LARGER, UNLESS OTHERWISE NOTED.
 - (4) DRAIN VALVE FOR WARM-UP AND BLOW DOWN.
 - (5) DRIP LEG LENGTH TO BE AT LEAST 1-1/2 TIMES DIAMETER OF MAIN, BUT NEVER LESS THAN 10".
 - (6) CAP, DRILL AND TAP FOR 1" BALL VALVE WITH HOSE THREADED ADAPTER AND CAP.

10 STEAM MAIN DRIP, END OF MAIN DRIP OR RISER DRIP
MF-856 NONE



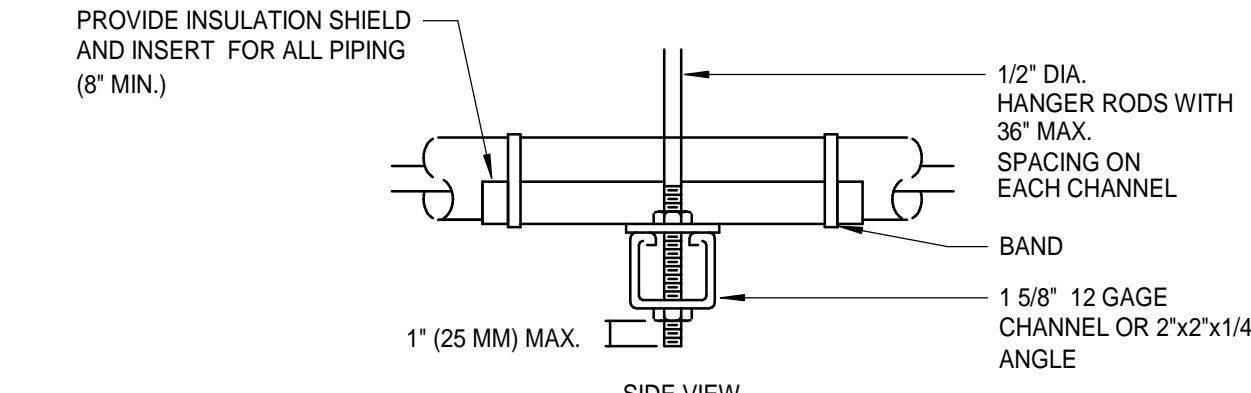
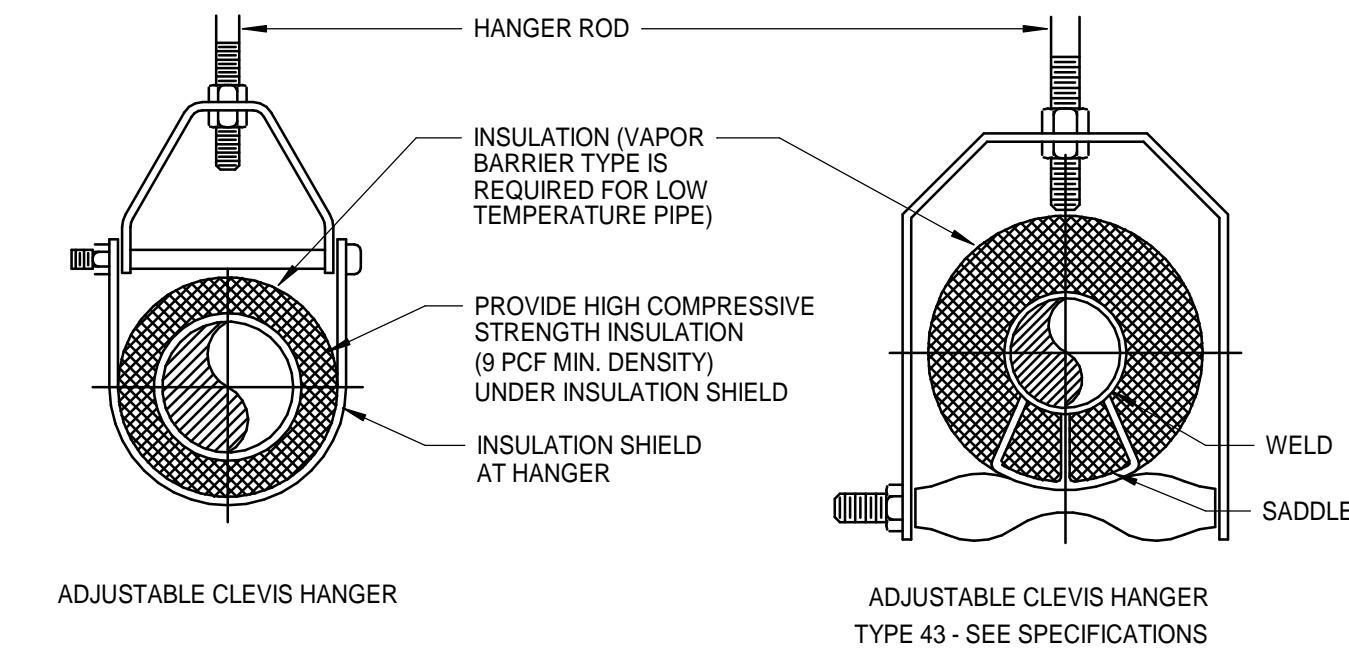
- NOTES:
- (1) REFER TO SPECIFICATION SECTION 23 2118 FOR BALANCING VALVE SIZING AND STRAIGHT INLET AND OUTLET PIPING REQUIREMENTS.
 - (2) USE TOP OR TOP 45° CONNECTION.

7 RADIANT CEILING PANEL PIPING (HEATING ONLY)
MF-856 1/2" = 1'-0"



4 TEMPERATURE INSTRUMENTS (WELDED PIPE)
MF-856 1/2" = 1'-0"

5 TEMPERATURE INSTRUMENTS (THREADED PIPE)
MF-856 1/2" = 1'-0"



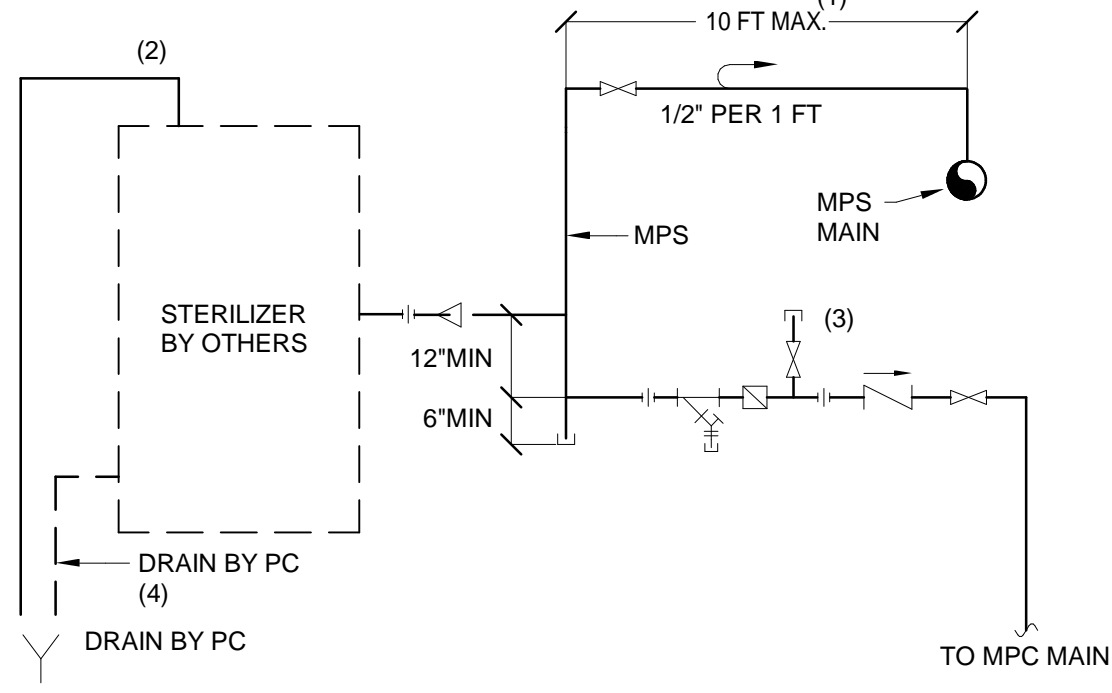
TRAPEZE HANGER FOR UP TO 1000 LB. UNIFORM LOAD

NOM. SIZE IN.	MAXIMUM PIPE/TUBING SUPPORT SPACING					
	THRU 3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"
PIPE FT.	7	7	8	8	8	8
TUBING FT.	5	6	7	8	8	8

NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.

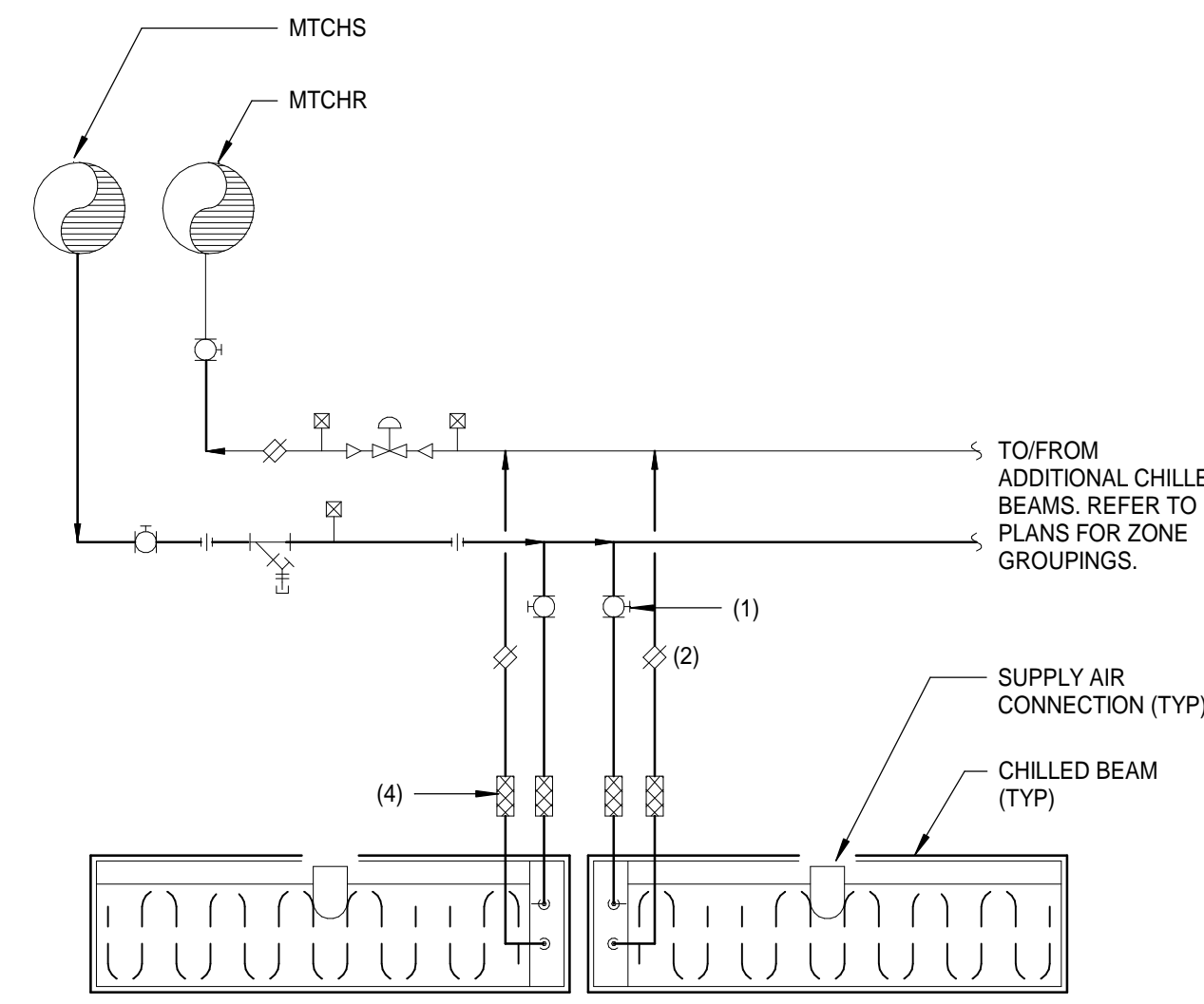
1 TYPICAL PIPE HANGER DETAIL
MF-856 1/2" = 1'-0"

2 HW REHEAT COIL PIPING (2-WAY VALVE)
MF-856 1/2" = 1'-0"



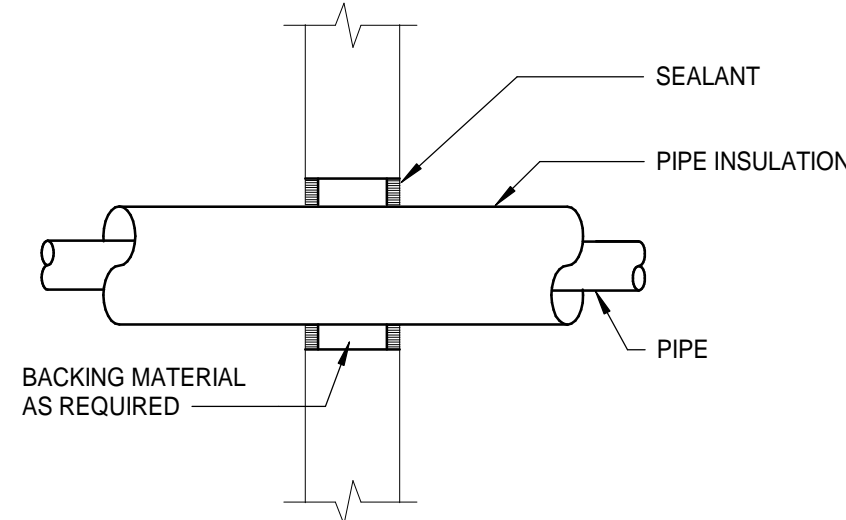
- NOTES:
- (1) IF PIPE LENGTH EXCEEDS 10 FT. PROVIDE DRIP LEG AND TRAP AHEAD OF SHUT-OFF VALVE. (REFER TO END OF MAIN DRIP DETAIL).
 - (2) SAFETY VALVES ARE FURNISHED WITH STERILIZER, ONE VALVE FOR CHAMBER AND ONE VALVE FOR JACKET. PIPE EACH SAFETY VALVE TO FLOOR DRAIN. PIPE TO BE SAME SIZE AS SAFETY VALVE OUTLET SIZE.
 - (3) TEST VALVE WITH 6" NIPPLE AND CAP. TEST VALVE TO BE LINE SIZE, BUT NOT LARGER THAN 1". LOCATE TEST VALVE AT SIDE OF PIPE.
 - (4) PROVIDE AFTER COOLER PER DETAIL. IF REQUIRED, COORDINATE REQUIREMENT FOR AFTER COOLER WITH PURCHASED UNIT MANUFACTURER OPTIONS.

11 STERILIZER STEAM PIPING DETAIL
MF-856 NONE

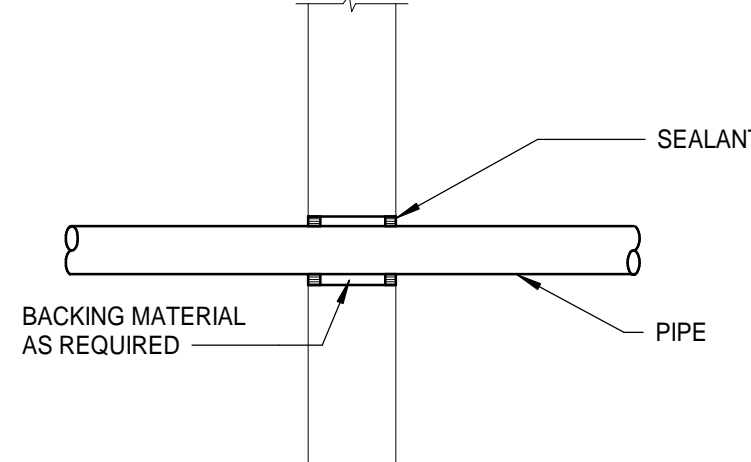


- NOTES:
- (1) UP TO TWO ADJACENT CHILLED BEAMS MAY BE SERVED BY SINGLE (COMMON) ISOLATION VALVE.
 - (2) UP TO TWO ADJACENT CHILLED BEAMS MAY BE SERVED BY SINGLE (COMMON) BALANCING VALVE IF UPSTREAM PIPING IS SYMMETRICAL.
 - (3) USE BALL VALVE IF CONTROL VALVE IS PRESSURE INDEPENDENT TYPE (PICV).
 - (4) FLEXIBLE PIPE CONNECTORS. REFER TO SPECIFICATIONS.

8 CHILLED BEAM PIPING
MF-856 NONE



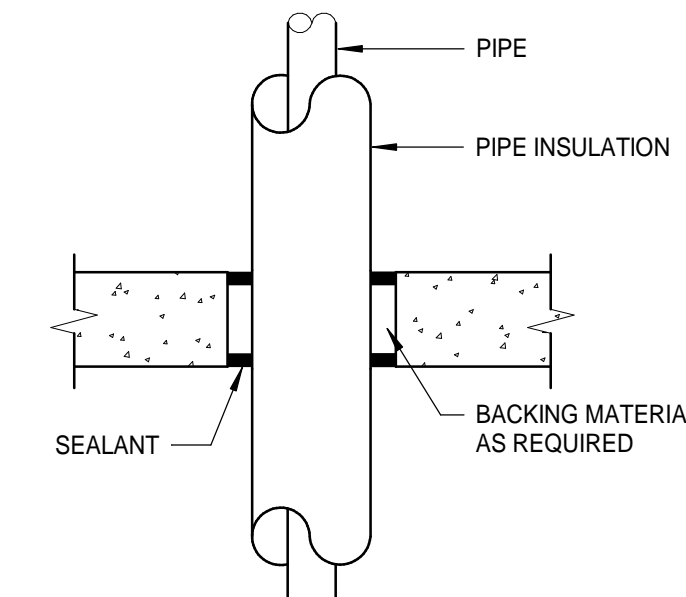
A WITH PIPE INSULATION



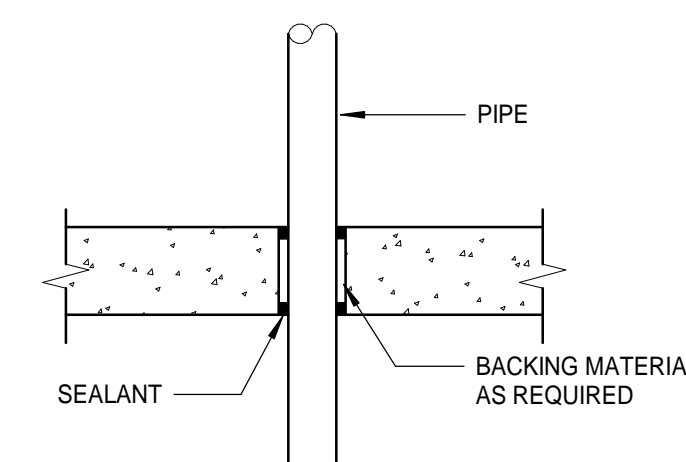
B WITHOUT PIPE INSULATION

- NOTES:
- (1) WHERE WALL IS FIRE RATED, APPLY FIRE STOPPING SYSTEM (COMBINATION OF SEALANT, BACKING MATERIAL AND INSULATION) MEETING THIS RATING. REFER TO SPECIFICATION SECTION 20 0573 FOR FIRE STOPPING SYSTEM.

9 PIPE THRU INTERIOR WALL
MF-856 1/2" = 1'-0"



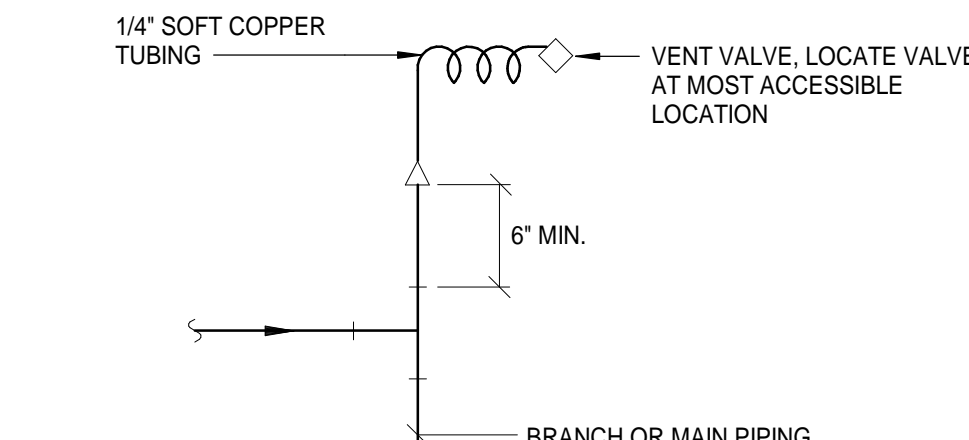
A WITH PIPE INSULATION



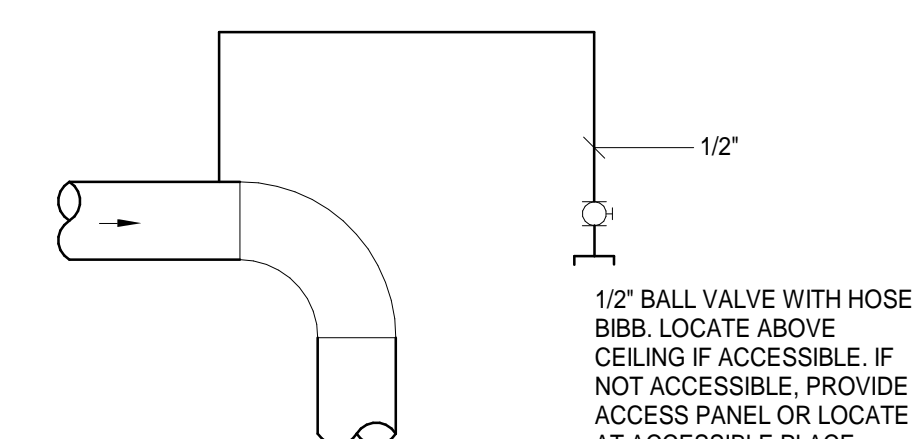
B WITHOUT PIPE INSULATION

- NOTES:
- (1) WHERE FLOOR IS FIRE RATED, APPLY FIRE STOPPING SYSTEM MEETING THIS RATING. REFER TO SPECIFICATION SECTION 20 0573 FOR FIRE STOPPING SYSTEM.

6 PIPE THRU FLOOR
MF-856 1/2" = 1'-0"



A COILS AND SUBCIRCUITS



B MAIN PIPES

3 AIR VENT PIPING
MF-856 NONE

ISSUANCES

No.	Description	Date
1	CD ISSUANCE - NH	04/14/20
2	BID & PERMIT - NH	05/22/20

Drawn By
TFM

Checked By
DMS

Client Number
514

Project Number
15576

DRAWING
MECHANICAL DETAILS
- PIPING
SHEET NO.
MF-856

EQUIPMENT NAMING AND IDENTIFICATION

- NOTES:
- THIS SECTION REPRESENTS HOW EQUIPMENT IS TO BE LABELED ONCE IT IS PHYSICALLY INSTALLED AS PART OF THE CONSTRUCTION PROCESS.
 - ELECTRICAL EQUIPMENT IDENTIFICATION TAGS AND LABELING USED ON THESE DRAWINGS DO NOT CORRESPOND DIRECTLY TO THE LABELING OF SUCH EQUIPMENT ONCE IT IS INSTALLED. EQUIPMENT HAS BEEN LABELED ON THESE DRAWINGS PER THE AEI ELECTRICAL IDENTIFICATION REQUIREMENTS FOR THE CASE OF REFERENCE. ONCE ELECTRICAL EQUIPMENT HAS BEEN INSTALLED ITS LABELING SHALL ADHERE SPECIFICALLY TO THE UNIVERSITY OF KENTUCKY ELECTRICAL IDENTIFICATION REQUIREMENTS AS INDICATED BELOW.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR PHYSICALLY LABELING ELECTRICAL EQUIPMENT AS IDENTIFIED IN THE UNIVERSITY OF KENTUCKY ELECTRICAL IDENTIFICATION REQUIREMENTS PER THE DIVISION 26 SPECIFICATIONS.
 - ELECTRICAL CONTRACTOR SHALL VERIFY ALL FINAL LABELING OF ALL ELECTRICAL EQUIPMENT WITH THE UNIVERSITY OF KENTUCKY PRIOR TO INSTALLATION.

260553501 - ELECTRICAL IDENTIFICATION GUIDELINES FOR NAMING POWER DISTRIBUTION SYSTEM COMPONENTS

THE PURPOSE OF THIS STANDARD IS TO ESTABLISH CONSISTENCY IN THE NAMING OF COMPONENTS IN THE ELECTRICAL DISTRIBUTION SYSTEM AND MECHANICAL SYSTEMS. IT IS INTENDED TO PROVIDE EASY IDENTIFICATION OF A COMPONENT'S LOCATION, POWER SUPPLY, AND LOAD INFORMATION FROM THE EQUIPMENT LABEL SOLELY AND TO MAKE IT EASY TO TRACE EQUIPMENT POWER SOURCES AND LOADS FOR MAINTENANCE PURPOSES. THE FOLLOWING GUIDELINES SHOULD APPLY IN ALMOST ALL CASES FOR ALL ELECTRIC POWERED EQUIPMENT AND ELECTRICAL GEAR. FOR THOSE ITEMS WHICH CANNOT BE PRODUCED FROM THESE GUIDELINES, THEN FURTHER GUIDANCE SHOULD BE OBTAINED FROM THE APPROPRIATE ELECTRICAL SYSTEMS SUPERVISOR.

ANY LABEL THAT BELONGS TO EQUIPMENT WITHIN THE EMERGENCY POWER SUBSYSTEM SHALL BE RED WITH WHITE LETTERING. ALL OTHER LABELS SHALL BE BLACK WITH WHITE LETTERING. ADDITIONALLY, ALL LABELS WILL HAVE AT LEAST TWO LINES-ONE DESIGNATING THE COMPONENT NAME AND THE OTHER DESIGNATING THE COMPONENT'S POWER SOURCE. IN THE CASE OF A COMPONENT WITH MULTIPLE FEEDS, THERE SHALL BE SEPARATE LINE FOR EACH POWER SOURCE COMPONENT NAME.

FORMAT:
THE COMPONENTS WILL BE LABELED USING THE FOLLOWING FORMAT:

ID: ROOM NO./EQUIPMENT NAME-SPECIFIC DEVICE NUMBER
FED FROM: ROOM NO./EQUIPMENT NAME-SPECIFIC DEVICE NUMBER

EACH FIELD HAS A SPECIFIED NUMBER OF CHARACTERS AND IS DEFINED AS FOLLOWS:
ROOM (UP TO 5 CAPITALIZED CHARACTERS) => THE ROOM IN WHICH THE COMPONENT IS LOCATED; IF COMPONENT IS IN A CORRIDOR USE "CORR"
EQUIPMENT NAME (UP TO 8 CAPITALIZED CHARACTERS) => THE NAME OF THE PARTICULAR TYPE OF EQUIPMENT FROM THE PDDMC EQUIPMENT NAMING CONVENTION LIST SHOWN BELOW.
SPECIFIC NUMBER (UP TO 3 CHARACTERS) => THE NUMBER OF THAT PARTICULAR DEVICE FROM THE DRAWINGS OR THE NEXT SEQUENTIAL NUMBER IN THAT EQUIPMENT TYPE.

EQUIPMENT DESCRIPTION / EQUIPMENT NAME

- AIR CONDITIONING UNITS / ACU-X
- AIR HANDLER UNITS / AHU-X
- BACKFLOW PREVENTOR / BFP-X
- CHILLED WATER PUMP / CHW/PMP-X
- CHILLERS / CHL-X
- COMPACTOR / CPT-X
- CONDENSATE PUMP / CND/PMP-X
- CONTROL AIR COMPRESSOR / CA/CMP-X
- CONVEYOR / CNV-X
- CRITICAL BRANCH AUTOMATIC TRANSFER SWITCH / C/ATS-X
- CRITICAL BRANCH DISTRIBUTION PANEL / C/DP-X
- CRITICAL BRANCH MOTOR CONTROL CTR / C/MCC-X
- CRITICAL BRANCH PANEL / C/P-X
- CRITICAL BRANCH SWITCHBOARD / C/SWBD-X
- CRITICAL BRANCH SWITCHGEAR / C/SWGR-X
- CRITICAL BRANCH TRANSFORMER / C/T-X
- DOMESTIC COLD WATER PUMP / DCW/PMP-X
- DOMESTIC HOT WATER PUMP / DHW/PMP-X
- DUMB WATERS / DUM-X
- ELEVATORS / ELEV-X
- EMERGENCY AUTOMATIC TRANSFER SWITCH / E/ATS-X
- EMERGENCY DISTRIBUTION PANEL / E/DP-X
- EMERGENCY GENERATOR / EG-X
- EMERGENCY MOTOR CONTROL CTR / EMCC-X
- EMERGENCY PANEL / E/P-X
- EMERGENCY SWITCHBOARD / E/SWBD-X
- EMERGENCY SWITCHGEAR / E/SWGR-X
- EMERGENCY TRANSFORMER / E/T-X
- EXHAUST FANS / EXF-X
- FAN COIL UNIT / FCU-X
- FIRE PUMP / SPR/PMP-X
- HEAT EXCHANGER / HTX-X
- HOT WATER HEATER / HWH-X
- LABORATORY AIR COMPRESSOR / LA/CMP-X
- LABORATORY VACUUM PUMP / LV/PMP-X
- LIFE SAFETY AUTOMATIC TRANSFER SWITCH / LS/ATS-X
- LIFE SAFETY DISTRIBUTION PANEL / LS/DP-X
- LIFE SAFETY PANEL / LS/P-X
- LIFE SAFETY SWITCHBOARD / LS/SWBD-X
- LIFE SAFETY SWITCHGEAR / LS/SWGR-X
- LIFE SAFETY TRANSFORMER / LS/T-X
- MEDICAL AIR COMPRESSOR / AIR/CMP-X
- MEDICAL VACUUM PUMP / VAC/PMP-X
- NORMAL POWER AUTOMATIC TRANSFER SWITCH / N/ATS-X
- NORMAL POWER DISTRIBUTION PANEL / NDP-X
- NORMAL POWER MOTOR CONTROL CTR / NMCC-X
- NORMAL POWER PANEL / NP-X
- NORMAL POWER SWITCHBOARD / N/SWBD-X
- NORMAL POWER SWITCHGEAR / N/SWGR-X
- NORMAL POWER TRANSFORMER / NT-X
- REHEAT PUMP / RHT/PMP-X
- TUBE SYSTEM TRANSFER STATION / TUBE/STN-X
- VARIABLE SPEED DRIVE / VSD-X

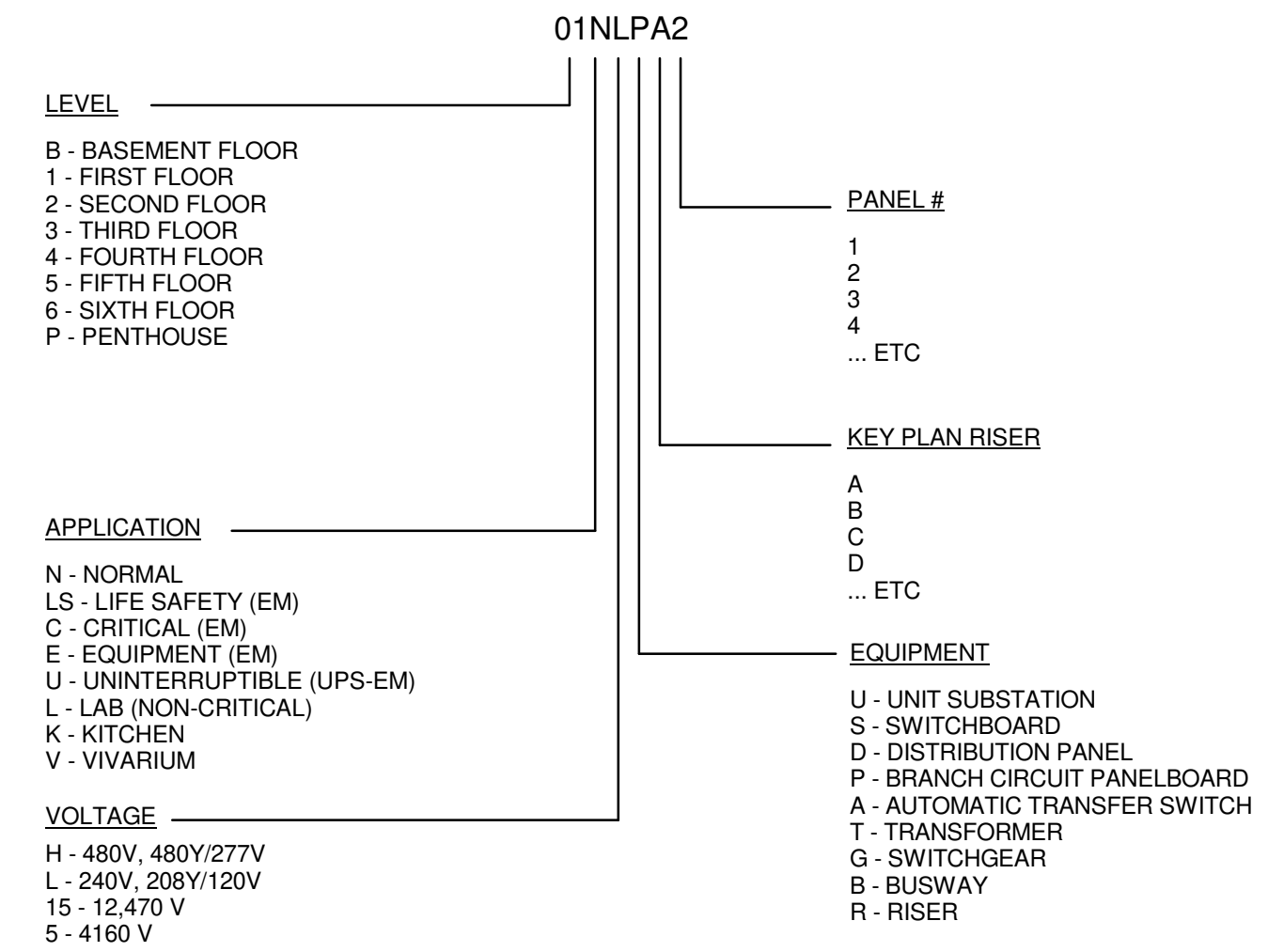
EXAMPLES:
A TYPICAL NORMAL POWER DISTRIBUTION PANEL ON THE SECOND FLOOR OF THE MAIN HOSPITAL IN ROOM H-201 MIGHT BE LABELED H201/NDP-1.
A MOTOR CONTROL CENTER IN THE PENTHOUSE OF THE COMBS BUILDING MIGHT BE LABELED 401/NMCC-1.
A CHILLED WATER PUMP IN H-46 MIGHT BE LABELED AS H46/CHW/PMP-1 FOR THE LOAD DESIGNATION AND H46/NP-3 FOR THE SOURCE DESIGNATION.

NOTE: THE COMPONENT IDENTIFICATION NUMBER, OR SEQUENCE NUMBER, IS JUST A SIMPLE NUMBERING OF SIMILAR EQUIPMENT ON THE SAME FLOOR NUMBERED FROM LEFT TO RIGHT AS SEEN ON THE ELECTRICAL DISTRIBUTION RISER DIAGRAM PROVIDED BY THE ARCHITECTS. THEREFORE, IT IS IMPORTANT TO NOTE THE BUILDING AND FLOOR WHEN REFERRING TO A COMPONENT TO DETERMINE ITS LOCATION. IF THE COMPONENTS TO BE LABELED ARE EXISTING EQUIPMENT OR NEW EQUIPMENT IN AN EXISTING BUILDING, THE COMPONENT SEQUENCE NUMBER SHOULD BE OBTAINED FROM THE APPROPRIATE ELECTRICAL SYSTEMS SUPERVISOR. IF THE EQUIPMENT IS BEING INSTALLED AS PART OF A NEW BUILDING CONSTRUCTION PROJECT, THEN THE CONTRACTOR MAY DETERMINE THE SEQUENCE NUMBERS.

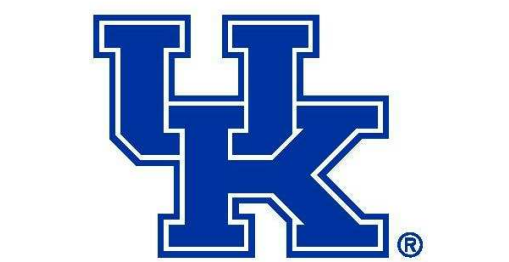
1 ELECTRICAL PHASE 2 FO EQUIPMENT NAMING GUIDELINES
EF-051 12 - 1-0

AEI ELECTRICAL IDENTIFICATION REQUIREMENTS

- NOTES:
- THIS DIAGRAM REPRESENTS HOW EQUIPMENT IS LABELED ON THE DIVISION 26 ELECTRICAL DRAWINGS AND SPECIFICATIONS.
 - KEY PLAN RISER DESIGNATION ONLY APPLIES TO EQUIPMENT LOCATED IN OR BEING SERVED DIRECTLY FROM AN ELECTRICAL ROOM/CLOSET LOCATED IN ONE OF THE BUILDING AREAS AS IDENTIFIED BY THE KEY PLANS FOUND ON EACH SHEET.



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HEALTHY KENTUCKY RESEARCH BUILDING

UNIVERSITY OF KENTUCKY

CONSTRUCT RESEARCH BUILDING
(FIT-UP TWO WET LABS)

UK Project Number 2538.0

ISSUANCES

No.	Description	Date
1	PHASE 2 DD 100%	08/15/2018
2	100% CD REVIEW	10/15/18
3	ISSUED FOR BID & PERMIT	11/15/18
4	RECORD DRAWING	08/16/19
5	DD ISSUANCE - NIH	02/09/20
6	CD ISSUANCE - NIH	04/14/20
7	BID & PERMIT - NIH	05/22/20

Drawn By	EM
Checked By	JS
Client Number	514
Project Number	15576

DRAWING
ELECTRICAL PHASE 2
FO EQUIPMENT
NAMING GUIDELINES

SHEET NO.
EF-051

ISSUANCES

No.	Description	Date
1	PHASE 2 BID 100%	08/15/2018
2	100% CD REVIEW	10/15/18
3	ISSUED FOR BID & PERMIT	11/15/18
4	PCO #007	06/07/19
5	CD ISSUANCE - NH	02/06/20
6	CD ISSUANCE - NH	04/14/20
7	BID & PERMIT - NH	05/22/20

Drawn By
EM

Checked By
JS

Client Number
514

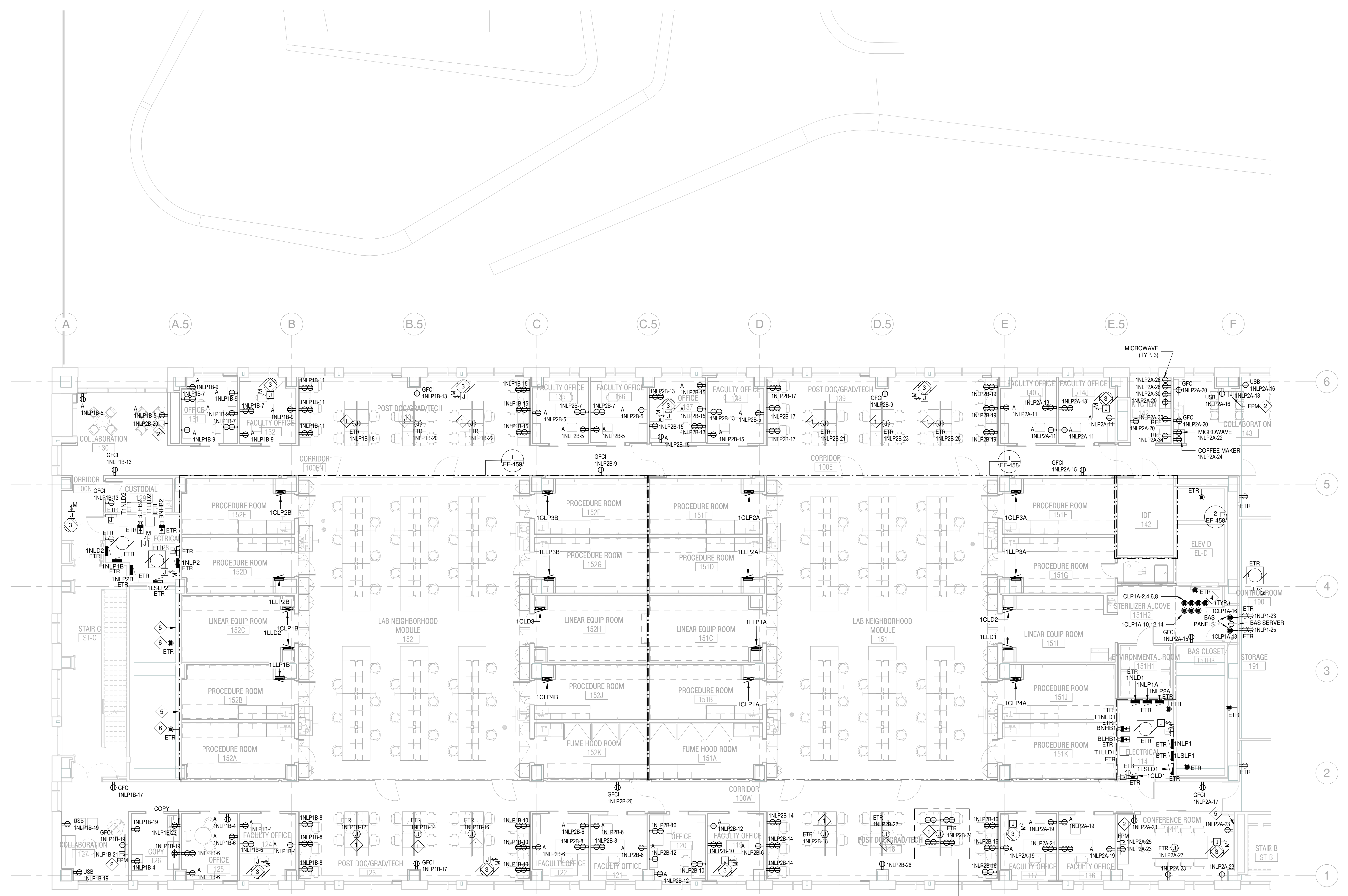
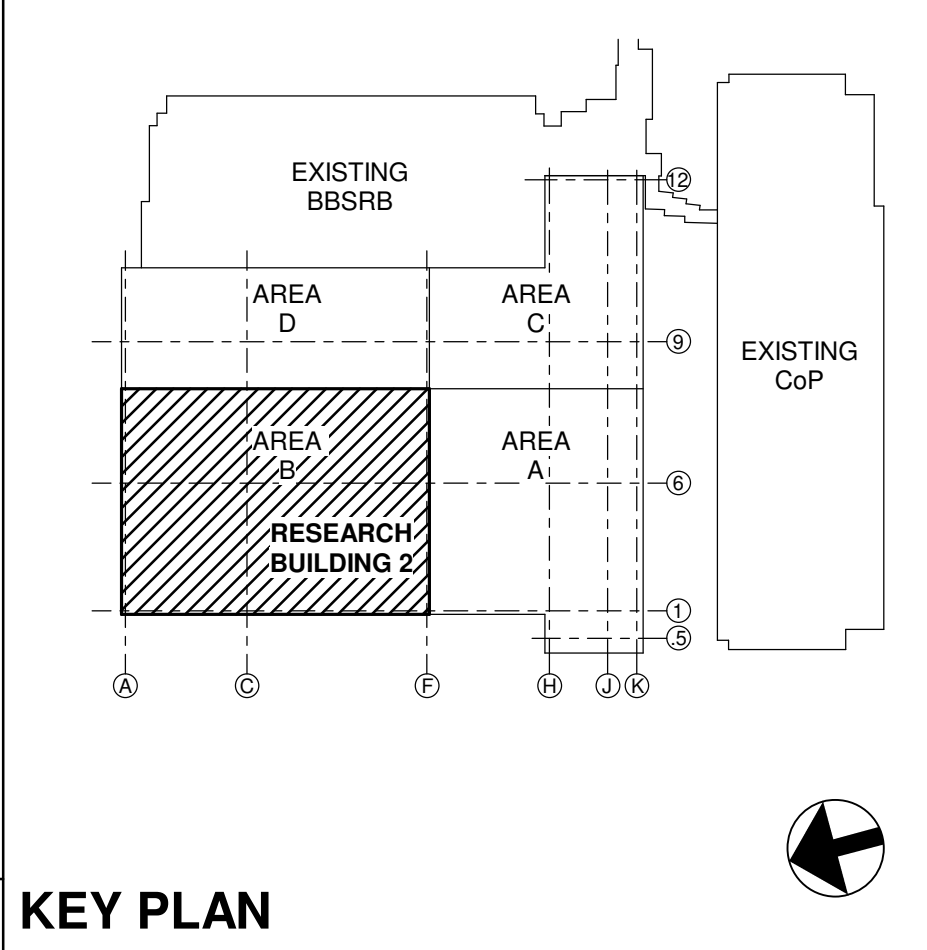
Project Number
15576

DRAWING
ELECTRICAL PHASE 2
FO POWER FLOOR
PLAN - LEVEL 01 AREA
B

SHEET NO.
EF-251B

- GENERAL NOTES**
- REFER TO 'TF' SERIES OF DRAWINGS FOR DATA LOCATIONS AND CONDUIT REQUIREMENTS.
 - REFER TO 'AVF' SERIES OF DRAWINGS FOR AV DEVICE LOCATIONS AND CONDUIT REQUIREMENTS.
 - REFER TO ARCHITECTURAL ELEVATIONS FOR DEVICE MOUNTING HEIGHTS.
 - COORDINATE EXACT FLOORBOX LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
 - RECEPTACLES DENOTED WITH 'A' ARE TO BE WIRED TO LIGHTING CONTROL SYSTEM FOR AUTOMATIC CONTROL VIA THE LIGHTING CONTROL SYSTEM.
 - PROVIDE HOSPITAL GRADE RECEPTACLES WITHIN WET LABS.
 - PROVIDE 3" CONCRETE HOUSEKEEPING PAD FOR ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT.

- KEYED NOTES**
- UTILIZE EXISTING POKE THRU FOR POWER AND DATA TO PRE-WIRED FURNITURE SYSTEM. PROVIDE FLEX CONDUIT FOR POWER BETWEEN POKE THRU AND ENTRY OF FURNITURE SYSTEM. COORDINATE POWER FEEDS WITH FURNITURE MANUFACTURER. REFER TO TECHNOLOGY DRAWINGS FOR ADDITIONAL INFORMATION.
 - PROVIDE A WALL MOUNTED AV BOX WITH 41 NEMA 5-20 RECEPTACLES. REFER TO AV DRAWINGS FOR AV BOX SPECIFICATIONS. REFER TO TECHNOLOGY AND AV DRAWINGS FOR ADDITIONAL REQUIREMENTS. COORDINATE MOUNTING HEIGHT AND EXACT FLAT PANEL MONITOR LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
 - UNIT HEATER TO BE DEMOLISHED.
 - EXACT LOCATION OF BAS PANELS TO BE DETERMINED BY CONTROLS CONTRACTOR.
 - 2HR FIRE RATED WALL. UTILIZE FIRE RATED PUTTY PADS ON THE BACK OF APPLICABLE BOXES.
 - EXISTING TO REMAIN POWER CONNECTION FOR SMOKE DAMPERS LOCATED ON A 2HR FIRE RATED WALL. APPLY FIRE RATED PUTTY TO THE BACK OF EACH BOX AS NECESSARY. REFER TO GAS ISSUANCE FOR ADDITIONAL INFORMATION.



ISSUANCES

No.	Description	Date
1	DD ISSUANCE - NH	02/05/20
2	CD ISSUANCE - NH	04/14/20
3	BID & PERMIT - NH	05/22/20

Drawn By	EM
Checked By	JS
Client Number	514
Project Number	15576

DRAWING
ELECTRICAL PHASE 2
LAB NEIGHBORHOOD
151 ENLARGED
POWER PLAN

SHEET NO.
EF-458

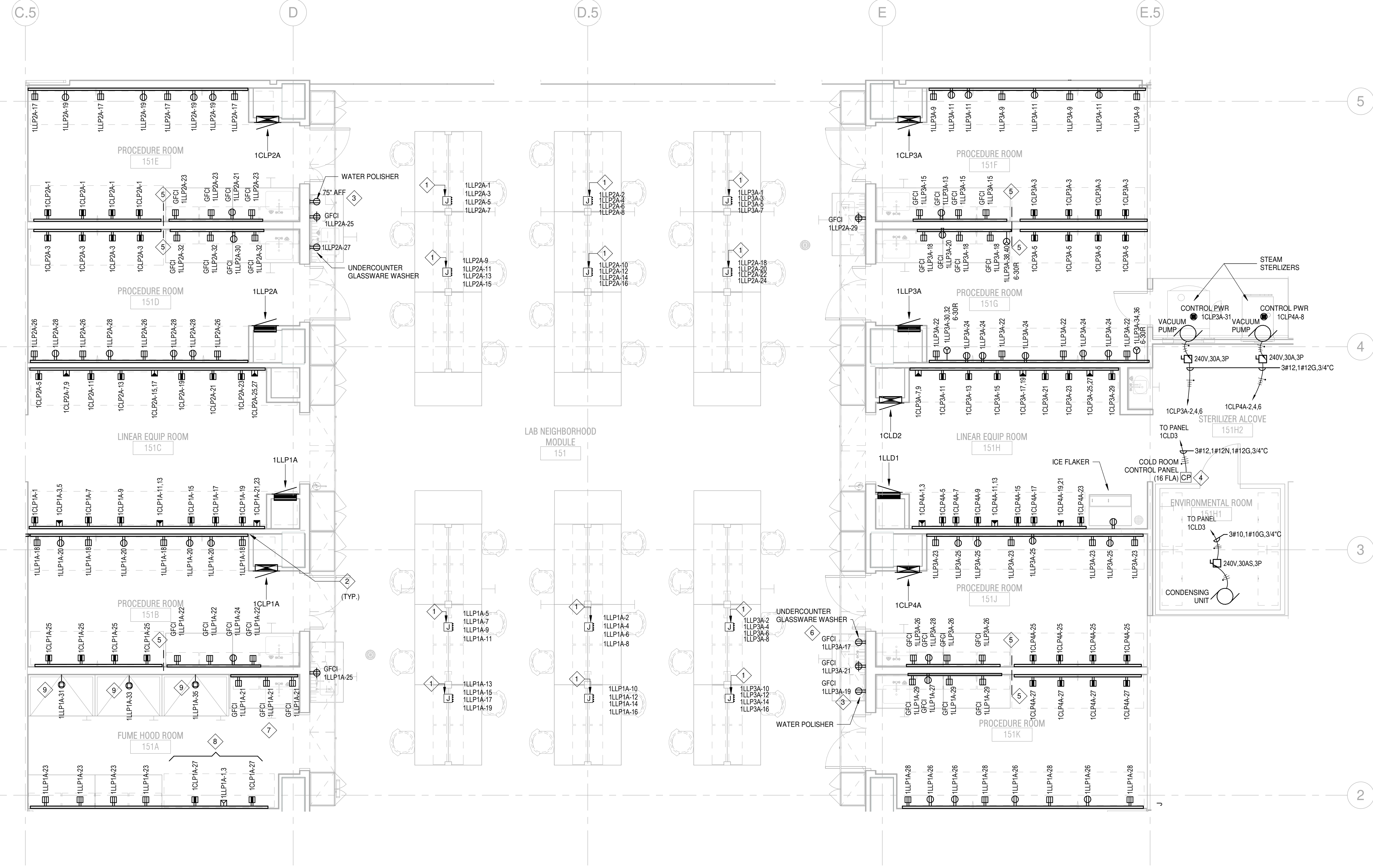
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GENERAL NOTES

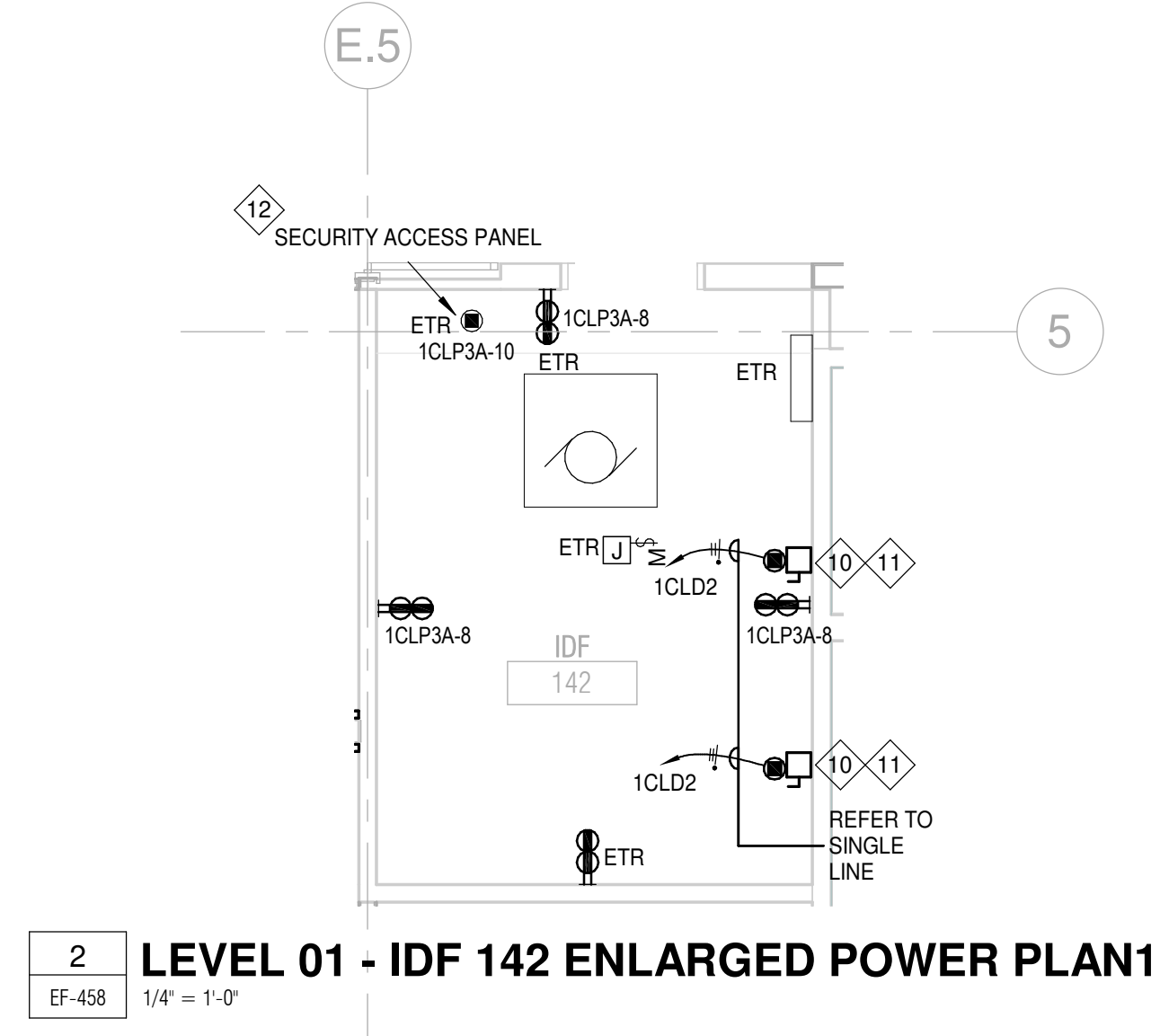
- REFER TO 'QL' SERIES OF DRAWINGS FOR LAB EQUIPMENT SCHEDULES, LAB FURNITURE ELEVATIONS, AND DETAILS.
- REFER TO 'TF' SERIES OF DRAWINGS FOR DATA LOCATIONS AND CONDUIT REQUIREMENTS.
- REFER TO 'TP' SERIES OF DRAWINGS FOR DATA LOCATIONS AND CONDUIT REQUIREMENTS.
- REFER TO 'AVP' SERIES OF DRAWINGS FOR AV DEVICE LOCATIONS AND CONDUIT REQUIREMENTS.
- REFER TO ARCHITECTURAL ('A') AND LAB ('QL') ELEVATIONS FOR DEVICE MOUNTING HEIGHTS.

KEYED NOTES

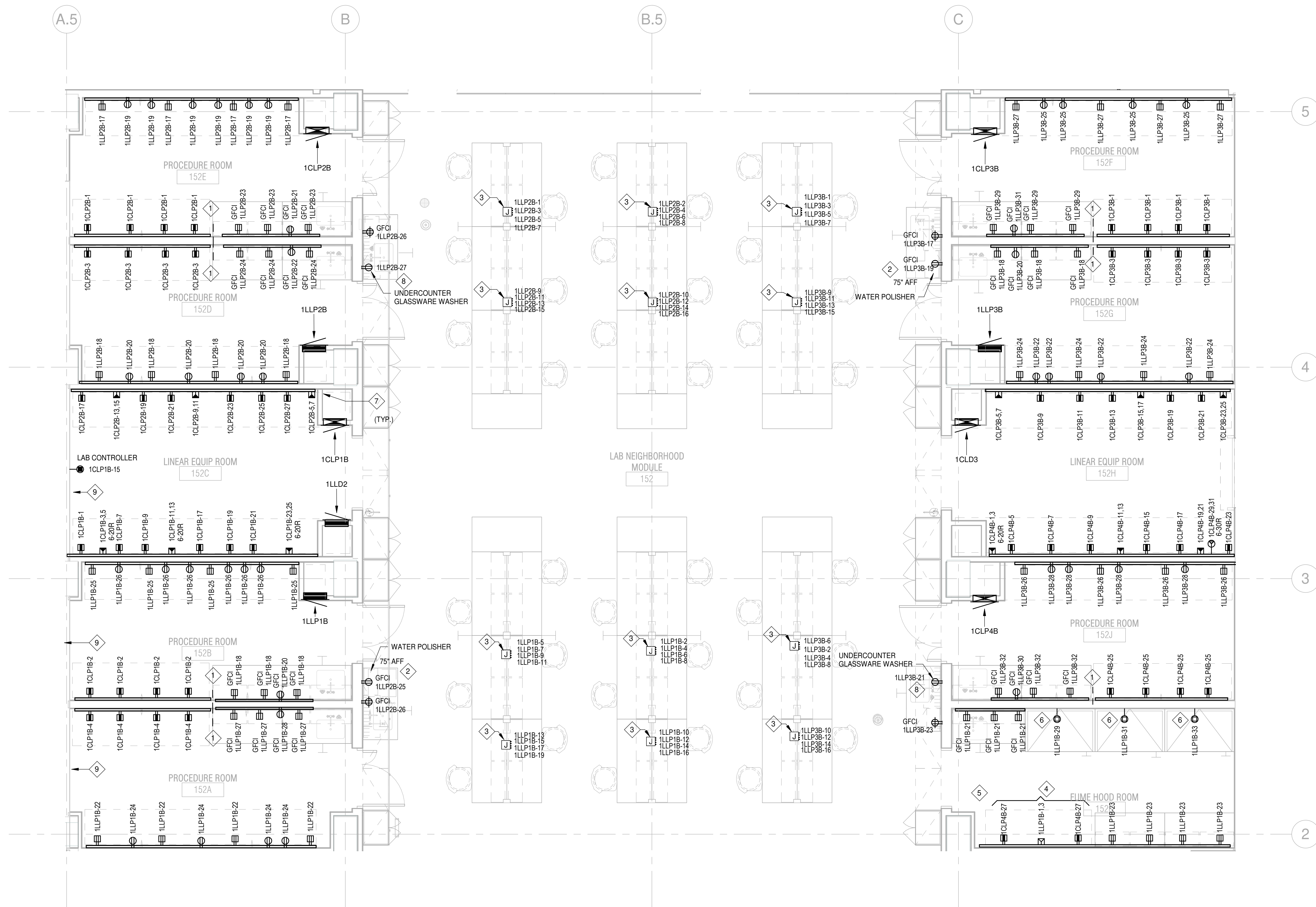
- CEILING SERVICE PANEL WITH (4) NEMA L5-20R RECEPTACLES. PROVIDE A DEDICATED 120V 1PH CIRCUIT FOR EACH L5-20R RECEPTACLE AS INDICATED ON PLAN. CEILING SERVICE PANEL TO BE PROVIDED WITH KNOCKOUT FOR FUTURE 208V RECEPTACLE. ROUTE SPARE 3/4" FROM PANELBOARD SERVING 120V CIRCUITS TO CEILING SERVICE PANEL FOR FUTURE USE. LABEL CONDUIT AT BOTH ENDS AND PROVIDE PULL STRING. EACH LAB TABLE SYSTEM TO BE PRE-WIRED AND PROVIDED WITH (2) L5-20P PLUG & CORD TO TERMINATE ON CEILING SERVICE PANEL. REFER TO 'QL' SERIES OF DRAWINGS FOR ADDITIONAL INFORMATION.
- PROVIDE DUAL CHANNEL SURFACE MOUNTED METAL RACEWAY (WIREMOLD G4000 SERIES OR APPROVED EQUAL) WITH ELECTRICAL OUTLETS IN UPPER CHANNEL. LOWER CHANNEL RESERVED FOR DATA CABLE. REFER TO TECHNOLOGY DRAWINGS FOR DATA REQUIREMENTS.
- COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH ARCHITECT.
- PROVIDE SINGLE POINT OF CONNECTION TO COLD ROOM CONTROL CONSOLE. COLD ROOM ELECTRICAL LOADS (LIGHTING, RECEPTACLES, AND EQUIPMENT) TO BE POWERED VIA COLD ROOM CONTROL CONSOLE. DISCONNECT INTEGRAL TO CONTROL CONSOLE BY MANUFACTURER.
- PROVIDE SEPARATE RACEWAYS FOR NORMAL POWER (LLP) BRANCH CIRCUITS AND CRITICAL STANDBY POWER (ICLP) BRANCH CIRCUITS.
- PROVIDE A GFCI CIRCUIT BREAKER FOR STANDARD RECEPTACLE BEHIND GLASSWARE WASHER.
- BOND METAL SURFACES IN FUME HOOD ROOM VIA #4 INSULATED COPPER WIRE FOR STATIC GROUNDING. ROUTE GROUND CONDUCTOR IN 3/4" FROM FUME HOOD ROOM TO NORTH ELECTRICAL RACK AND CONNECT TO LABORATORY GROUND BARR (LGB).
- PROVIDE SINGLE CHANNEL SURFACE MOUNTED RACEWAY (WIREMOLD G3000 SERIES OR APPROVED EQUAL) FOR CRITICAL POWER (ICLP) BRANCH CIRCUIT IN ORDER TO KEEP SEPARATE FROM NORMAL POWER BRANCH CIRCUITS.
- SINGLE POINT CONNECTION FOR PREWIRED RECEPTACLES, LIGHTS, AND SWITCH MOUNTED TO FUME HOOD. REFER TO FUME HOOD DETAILS ON DRAWING QL-408.
- COORDINATE DISCONNECT LOCATION WITH UK IT PRIOR TO INSTALLATION.
- PROVIDE DUAL CONNECTION TO OWNER FURNISHED RACK MOUNTED UPS VIA ENCLOSED CIRCUIT BREAKER DISCONNECT. REFER TO DRAWING EF-553 FOR DISCONNECT AND WIRE SIZING.
- INSTALLED DURING PHASE 1. RE-FEED FROM CRITICAL POWER AS PART OF PHASE 2.



1 LEVEL 01 - LAB NEIGHBORHOOD 151 ENLARGED POWER PLAN1
EF-458 1/4" = 1'-0"



2 LEVEL 01 - IDF 142 ENLARGED POWER PLAN1
EF-458 1/4" = 1'-0"



1 LEVEL 01 - LAB NEIGHBORHOOD 152 ENLARGED POWER PLAN
 EF-459 1/4" = 1'-0"

GENERAL NOTES

1. REFER TO 'QL' SERIES OF DRAWINGS FOR LAB EQUIPMENT SCHEDULES, LAB FURNITURE ELEVATIONS, AND DETAILS.
2. REFER TO 'TF' SERIES OF DRAWINGS FOR DATA LOCATIONS AND CONDUIT REQUIREMENTS.
3. REFER TO 'TP' SERIES OF DRAWINGS FOR DATA LOCATIONS AND CONDUIT REQUIREMENTS.
4. REFER TO 'AVP' SERIES OF DRAWINGS FOR AV DEVICE LOCATIONS AND CONDUIT REQUIREMENTS.
5. REFER TO ARCHITECTURAL ('A') AND LAB ('QL') ELEVATIONS FOR DEVICE MOUNTING HEIGHTS.

KEYED NOTES

1. PROVIDE SEPARATE RACEWAYS FOR NORMAL POWER (LLP) BRANCH CIRCUITS AND CRITICAL STANDBY POWER (CLP) BRANCH CIRCUITS.
2. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH ARCHITECT.
3. CEILING SERVICE PANEL WITH (4) NEMA L5-20R RECEPTACLES. PROVIDE A DEDICATED 120V, 1PH CIRCUIT FOR EACH L5-20R RECEPTACLE AS INDICATED ON PLAN. CEILING SERVICE PANEL TO BE PROVIDED WITH KNOCKOUT FOR FUTURE 208V RECEPTACLE. ROUTE SPARE 3/4" FROM PANELBOARD SERVING 120V CIRCUITS TO CEILING SERVICE PANEL FOR FUTURE USE. LABEL CONDUIT AT BOTH ENDS AND PROVIDE PULL STRING. EACH LAB TABLE SYSTEM TO BE PRE-WIRED AND PROVIDED WITH (2) L5-20P PLUG & CORD TO TERMINATE ON CEILING SERVICE PANEL. REFER TO 'QL' SERIES OF DRAWINGS FOR ADDITIONAL INFORMATION.
4. PROVIDE SINGLE CHANNEL SURFACE MOUNTED RACEWAY (WIREMOLD G3000 SERIES OR APPROVED EQUAL) FOR CRITICAL POWER (CLP) BRANCH CIRCUIT IN ORDER TO KEEP SEPARATE FROM NORMAL POWER BRANCH CIRCUITS.
5. BOND METAL SURFACES IN FUME HOOD ROOM VIA #4 INSULATED COPPER WIRE FOR STATIC GROUNDING. ROUTE GROUND CONDUCTOR IN 3/4" FROM FUME HOOD ROOM TO NORTH ELECTRICAL ROOM AND CONNECT TO LABORATORY GROUND BAR (LGB).
6. SINGLE POINT CONNECTION FOR PREWIRED RECEPTACLES, LIGHTS, AND SWITCH MOUNTED TO FUME HOOD. REFER TO FUME HOOD DETAILS ON DRAWING QL-404.
7. PROVIDE DUAL CHANNEL SURFACE MOUNTED METAL RACEWAY (WIREMOLD G4000 SERIES OR APPROVED EQUAL) WITH ELECTRICAL OUTLETS IN UPPER CHANNEL. LOWER CHANNEL RESERVED FOR DATA CABLE. REFER TO TECHNOLOGY DRAWINGS FOR DATA REQUIREMENTS.
8. PROVIDE A GFCI CIRCUIT BREAKER FOR STANDARD RECEPTACLE BEHIND GLASSWARE WASHER.
9. 2HR FIRE RATED WALL. UTILIZE FIRE RATED PUTTY PADS ON THE BACK OF APPLICABLE BOXES.

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CONSTRUCT RESEARCH BUILDING
 (FIT-UP TWO WET LABS)

UK Project Number 2538.0

ISSUANCES

No.	Description	Date
1	DD ISSUANCE - NH	02/05/20
2	CD ISSUANCE - NH	04/14/20
3	BID & PERMIT - NH	05/22/20

Drawn By
EM

Checked By
JS

Client Number
514

Project Number
15576

DRAWING
 ELECTRICAL PHASE 2
 LAB NEIGHBORHOOD
 152 ENLARGED PLAN
 SHEET NO.
EF-459



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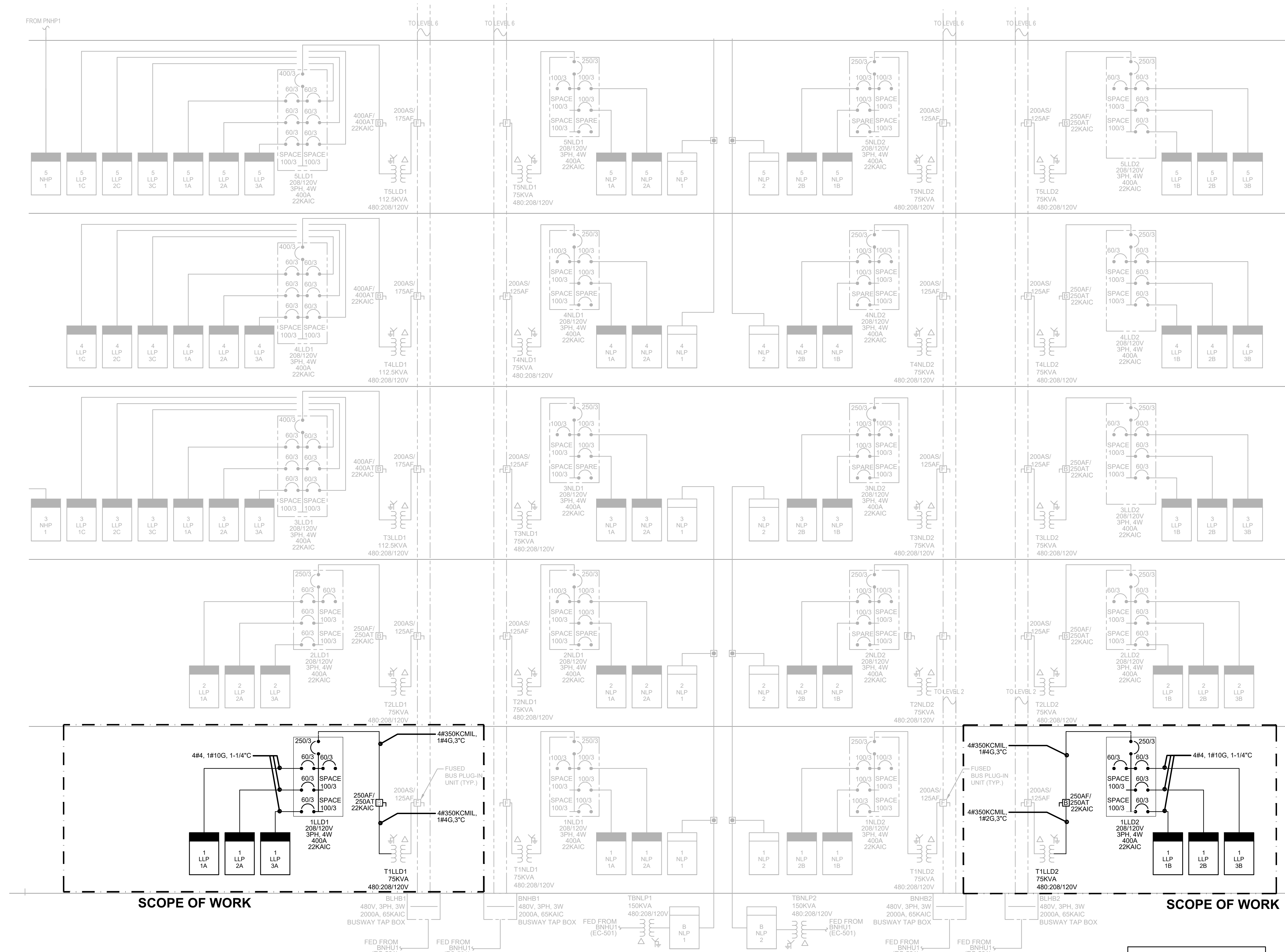
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CONSTRUCT RESEARCH BUILDING (FIT-UP TWO WET LABS)

UK Project Number 2538.0

ISSUANCES

No.	Description	Date
1	PHASE 2 DD 100%	08/15/18
2	100% CD REVIEW	10/15/18
3	ISSUED FOR BID & PERMIT	11/15/18
4	AS-BUILT	05/03/19
5	ISSUANCE - NH	02/25/20
6	CD ISSUANCE - NH	04/14/20
7	BID & PERMIT - NH	05/22/20



LINE TYPE LEGEND:

EXISTING: _____

NEW: _____

FUTURE: - - - - -

Drawn By: EM
Checked By: JS
Client Number: 514
Project Number: 5350

DRAWING TITLE: ELECTRICAL PHASE 3 FO NORMAL POWER RISER

SHEET NO. EF-552

02/05/2020 10:00:00 AM



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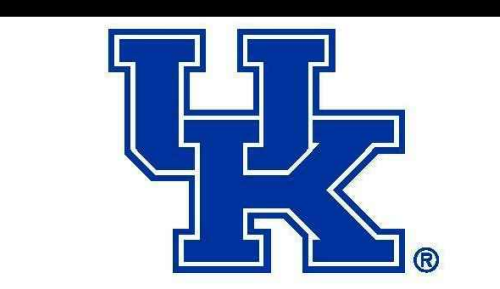
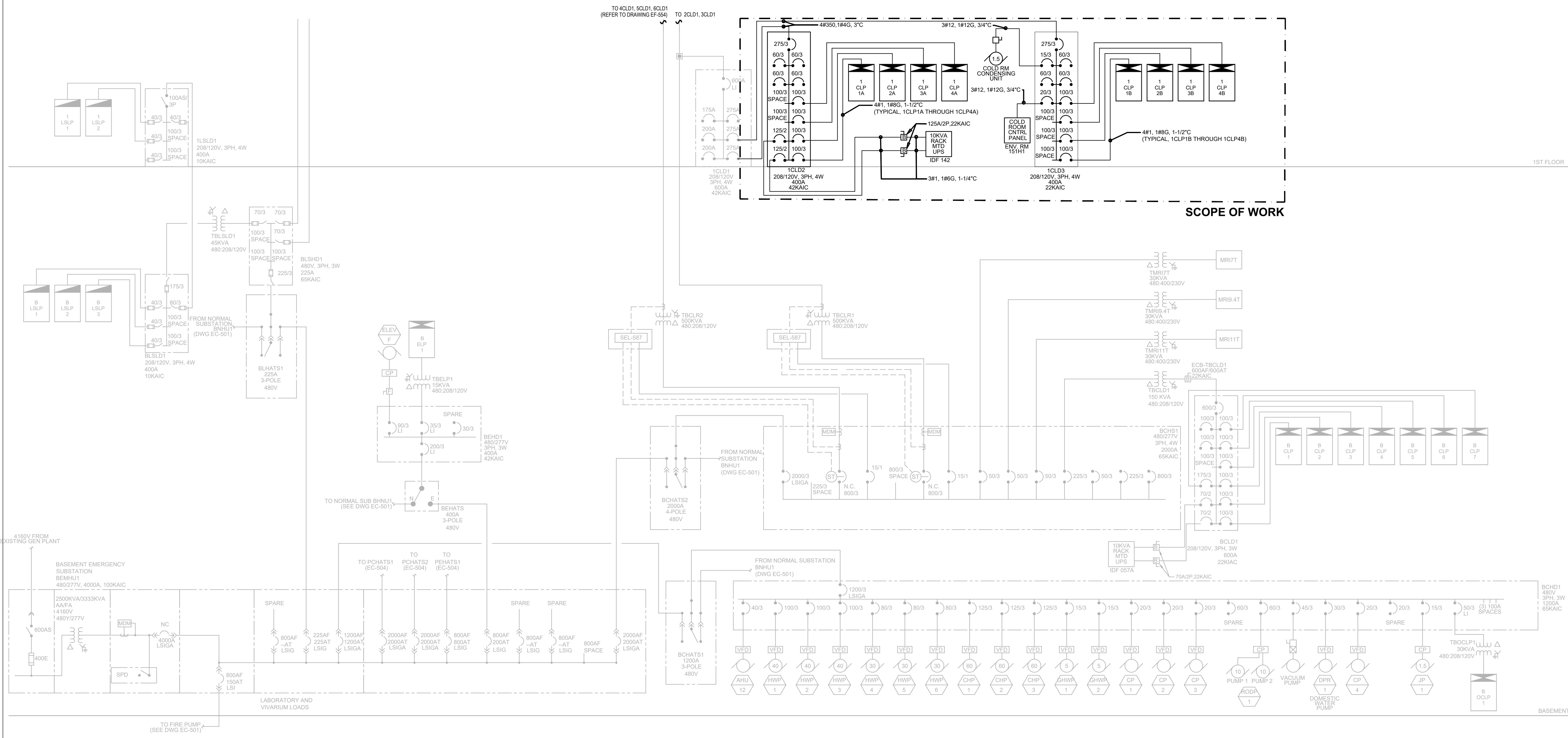
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LINE TYPE LEGEND:

EXISTING:	_____
NEW:	_____
FUTURE:	-----



HEALTHY KENTUCKY RESEARCH BUILDING
UNIVERSITY OF KENTUCKY

CONSTRUCT RESEARCH BUILDING (FIT-UP TWO WET LABS)

UK Project Number 2538.0

ISSUANCES

No.	Description	Date
1	PHASE 2/3/4/5	08/14/18
2	100% CD REVIEW	30/04/18
3	ISSUED FOR BID & PERMIT	11/16/18
4	P2 - Addendum #2	01/22/19
5	CD ISSUANCE - NH	02/06/20
6	CD ISSUANCE - NH	04/14/20
7	BID & PERMIT - NH	05/22/20

Drawn By
EM

Checked By
JS

Client Number
514

Project Number
5350

DRAWING TITLE
ELECTRICAL PHASE 3 FOR EMERGENCY AND CRITICAL RISER

SHEET NO.
EF-553

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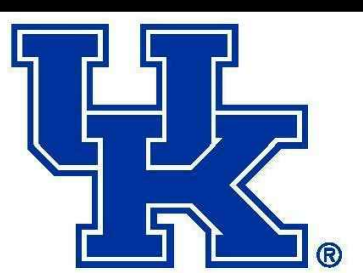


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(FIT-UP TWO WET LABS)

UK Project Number 2538.0

ISSUANCES

No.	Description	Date
1	PHASE 2 CD 100%	08/15/2018
2	100% CD REVIEW	10/15/18
3	ISSUE FOR BID & PERMIT	11/15/18
4	DD ISSUANCE - NH	02/05/2020
5	CD ISSUANCE - NH	04/15/2020
7	BID & PERMIT - NH	05/22/2020

Drawn By

EM

Checked By

JS

Client Number

514

Project Number

5350

DRAWING

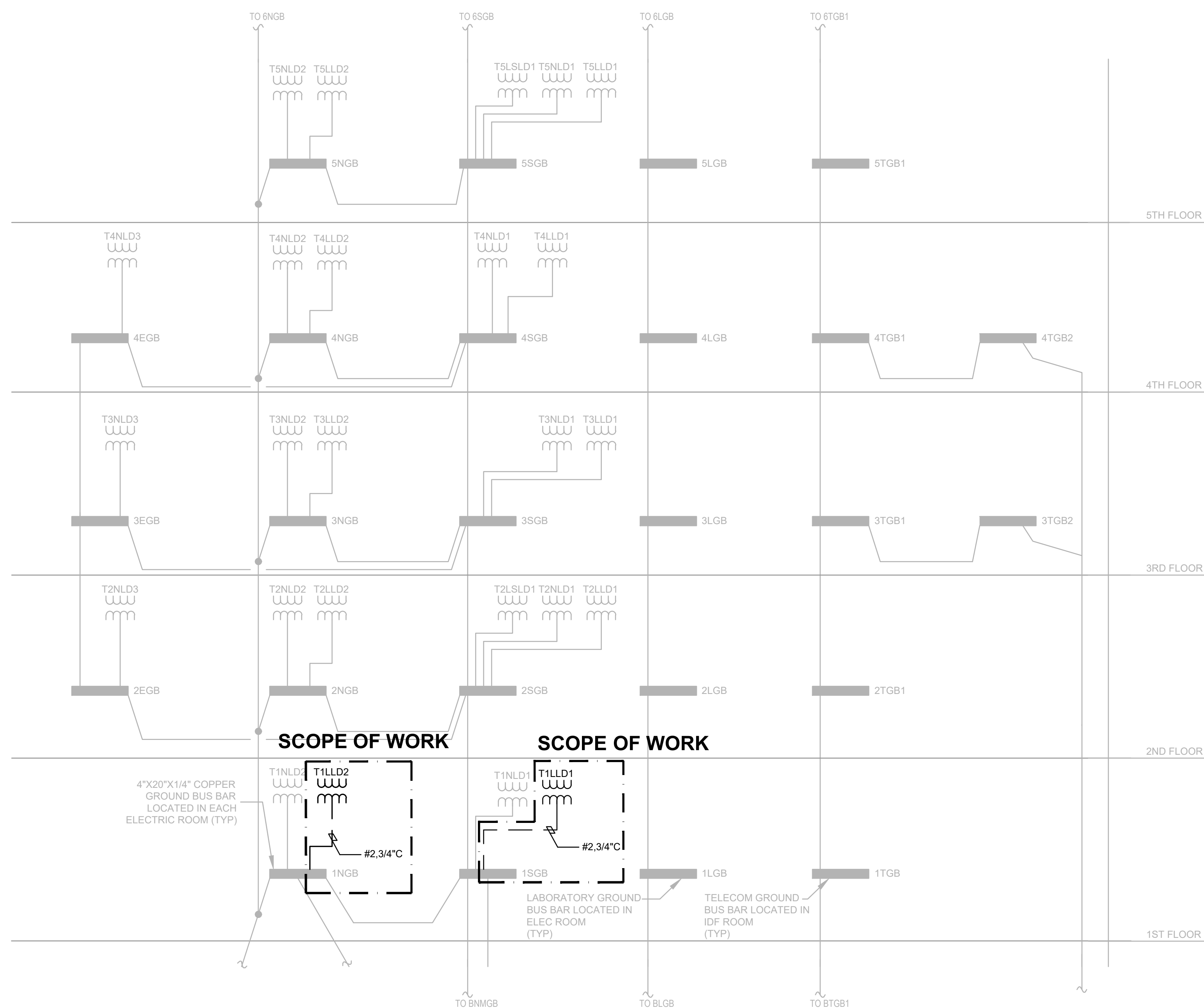
TITLE

ELECTRICAL PHASE 2

FO GROUNDING RISER

SHEET NO.

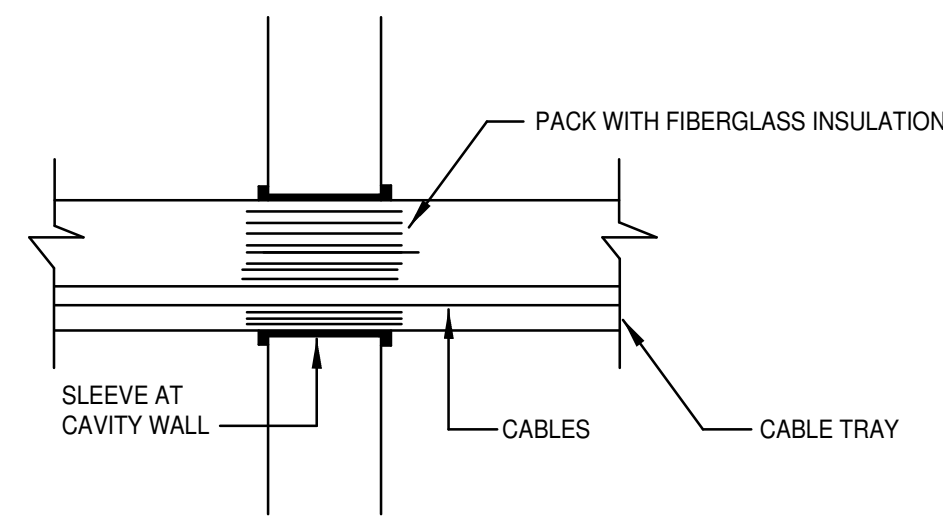
EF-555



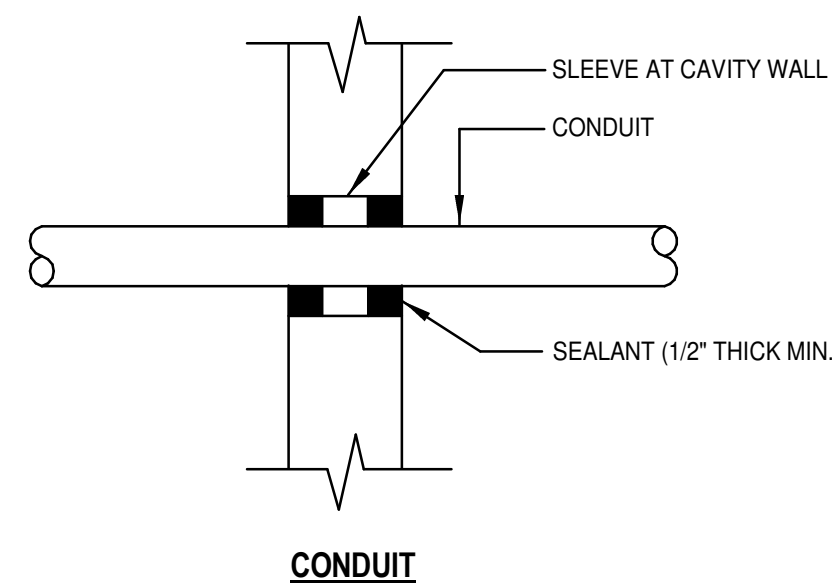
LINE TYPE LEGEND:

EXISTING:	---
NEW:	—
FUTURE:	---

02/05/2020 10:00:00 AM

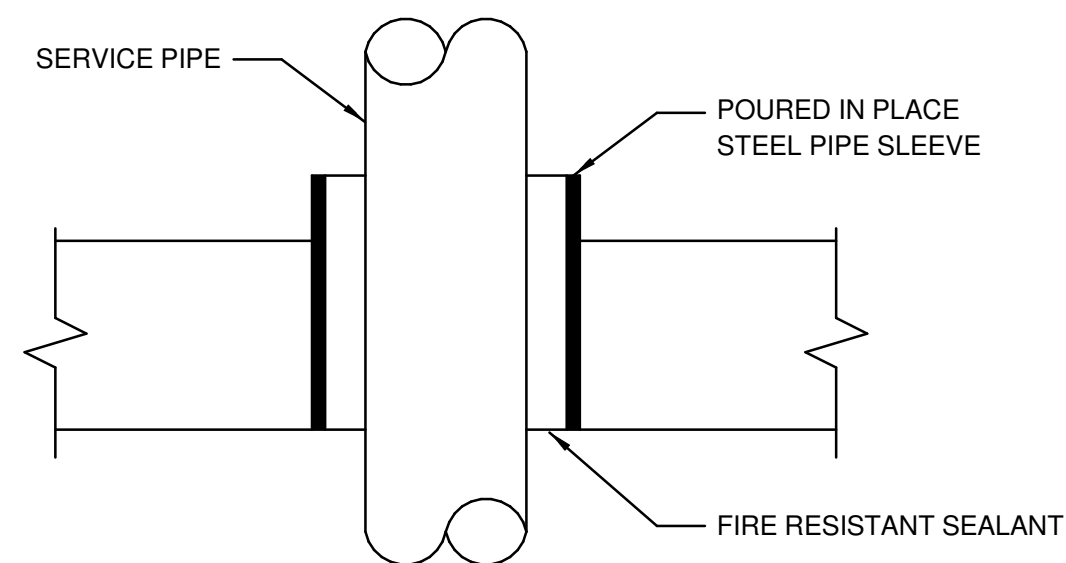


CABLE TRAY



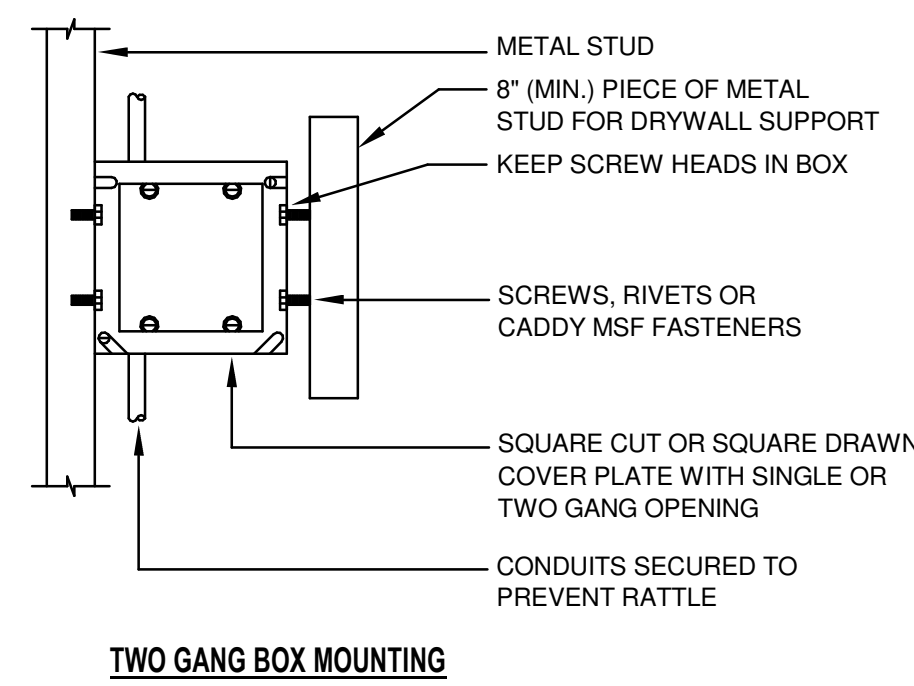
CONDUIT

7 ELECTRICAL FIRE SEAL DETAIL
EF-851 N.T.S.

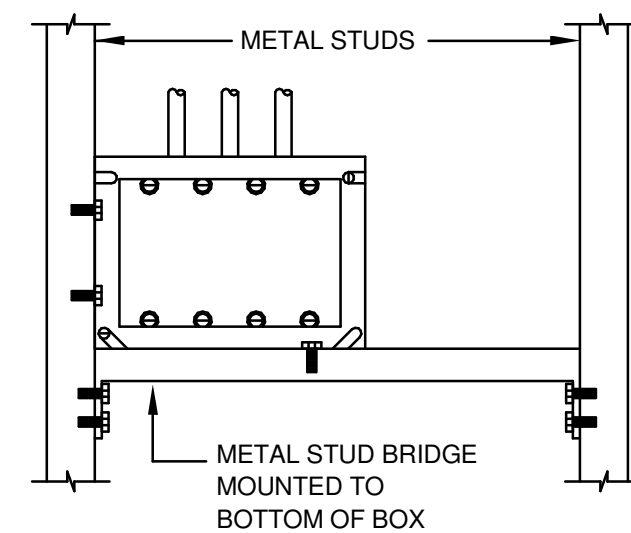


- NOTES:
- (1) AT CORED HOLES INSTALL SLEEVE SMALLER THAN HOLE. FILL SPACE BETWEEN HOLE AND SLEEVE WITH HYDRAULIC CEMENT.

8 PENETRATION THROUGH FIRE RATED FLOOR
EF-851 N.T.S.

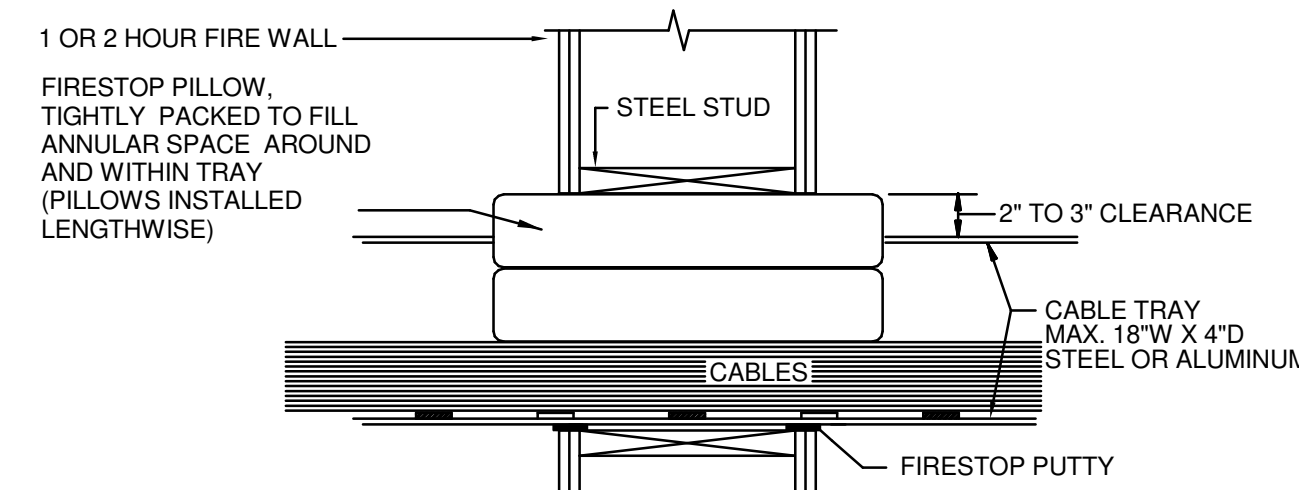


TWO GANG BOX MOUNTING

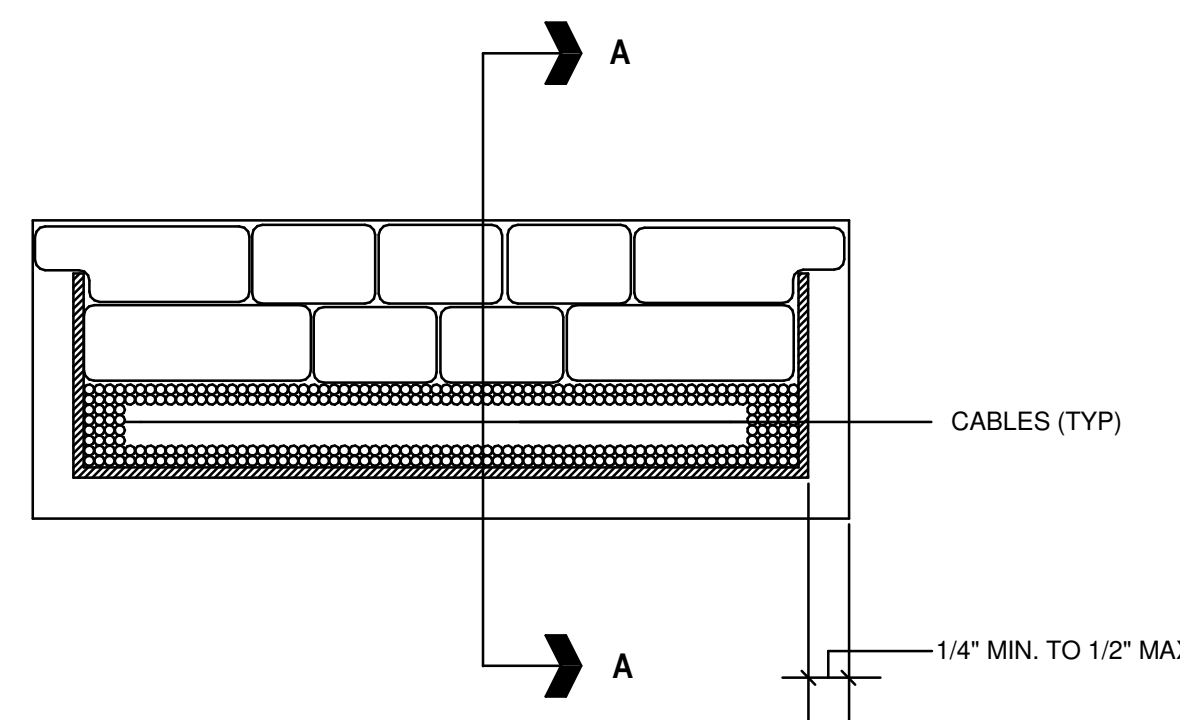


MULTIPLE GANG BOX MOUNTING

4 METAL STUD WALL BOX INSTALLATION
EF-851 N.T.S.



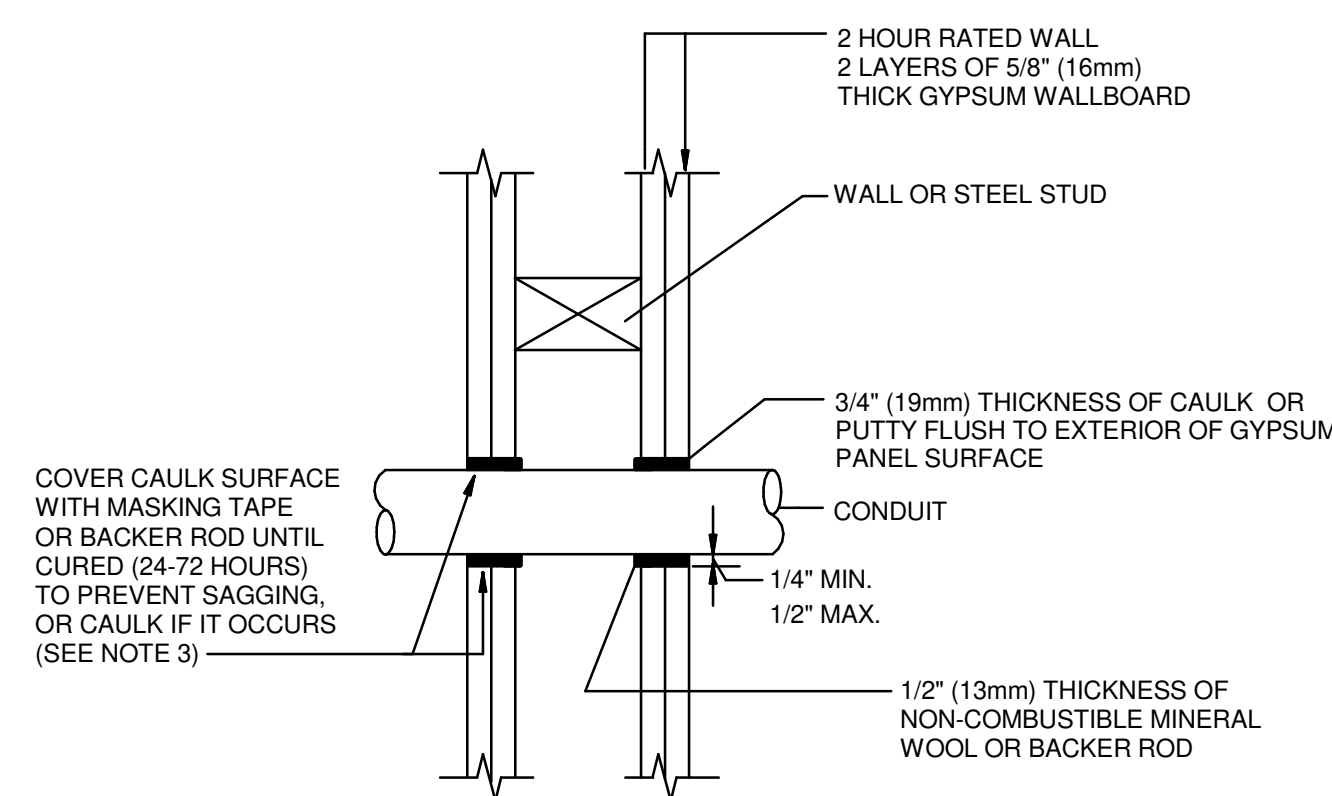
SECTION A-A



ELEVATION

- NOTES:
- INSTALL PUTTY AS REQUIRED TO FILL OBVIOUS OPENINGS BETWEEN CABLES OR BETWEEN TRAY AND PERIPHERY OF OPENING. INSTALL ON BOTH SIDES OF WALL.

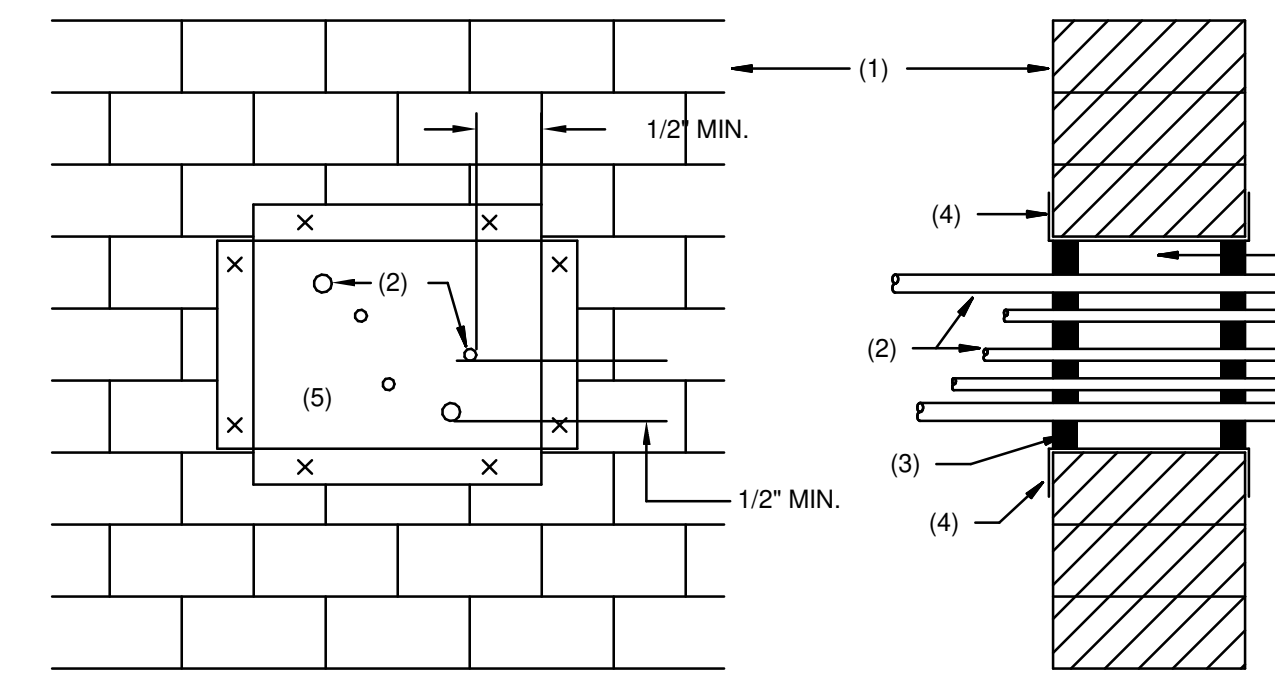
5 METAL CABLE TRAY PENETRATION OF 1 OR 2 HOUR FIRE RATED GYPSUM WALLBOARD WALL
EF-851 N.T.S.



SECTION VIEW

- NOTES:
- INSTALL FIRESTOP ON BOTH SIDES OF WALL.
 - RECOMMENDATIONS BASED ON PRODUCT PERFORMANCE PER ASTM E-814 (UL 1479) TIME TEMPERATURE FIRE ENCLOSURE CURVE.
 - OPTIONS FOR MASKING TAPE TO PREVENT SAGGING:
 - INSTALL ADDITIONAL DAMMING MATERIAL INSIDE WALL AND OVER PRODUCT TO HOLD WITHIN OPENING.
 - REMOVE PRODUCT FROM CONTAINER AND ALLOW TO AIR CURE IN SMALL BATCHES FOR 12 HOURS, THEN HAND FORM INTO OPENING.

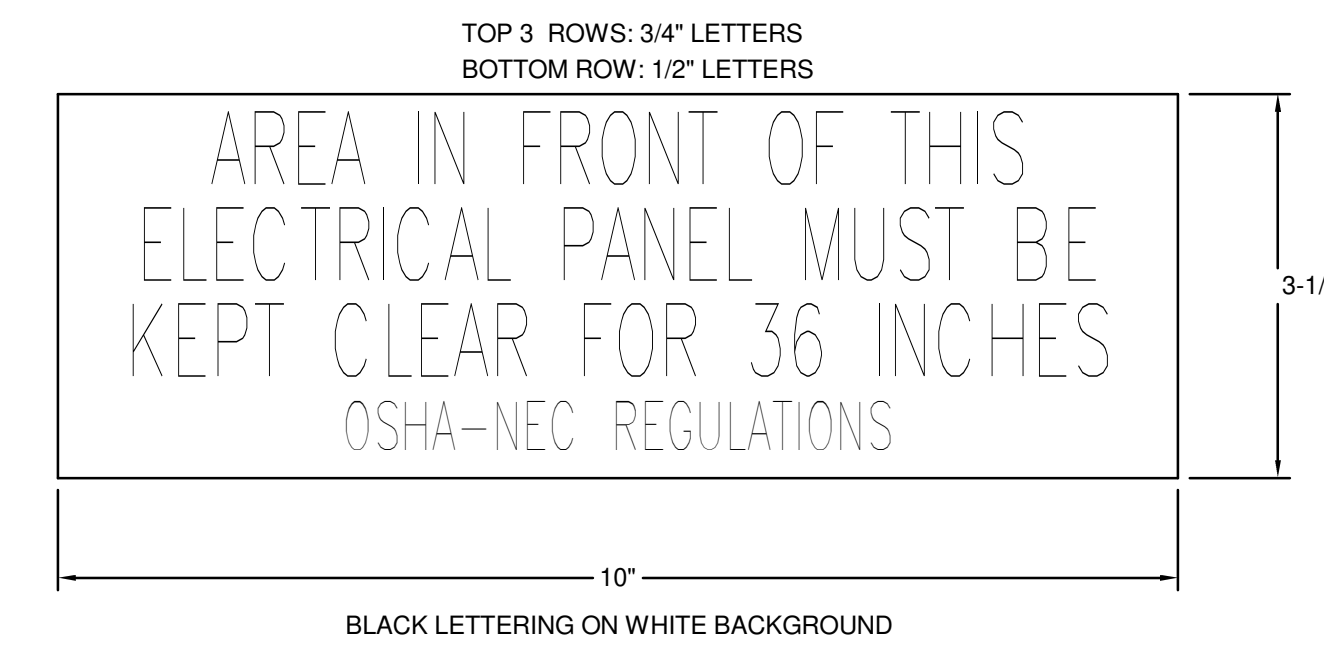
6 SINGLE CONDUIT PENETRATION OF 2 HOUR FIRE RATE GYPSUM WALLBOARD WALL
EF-851 N.T.S.



NOTES:

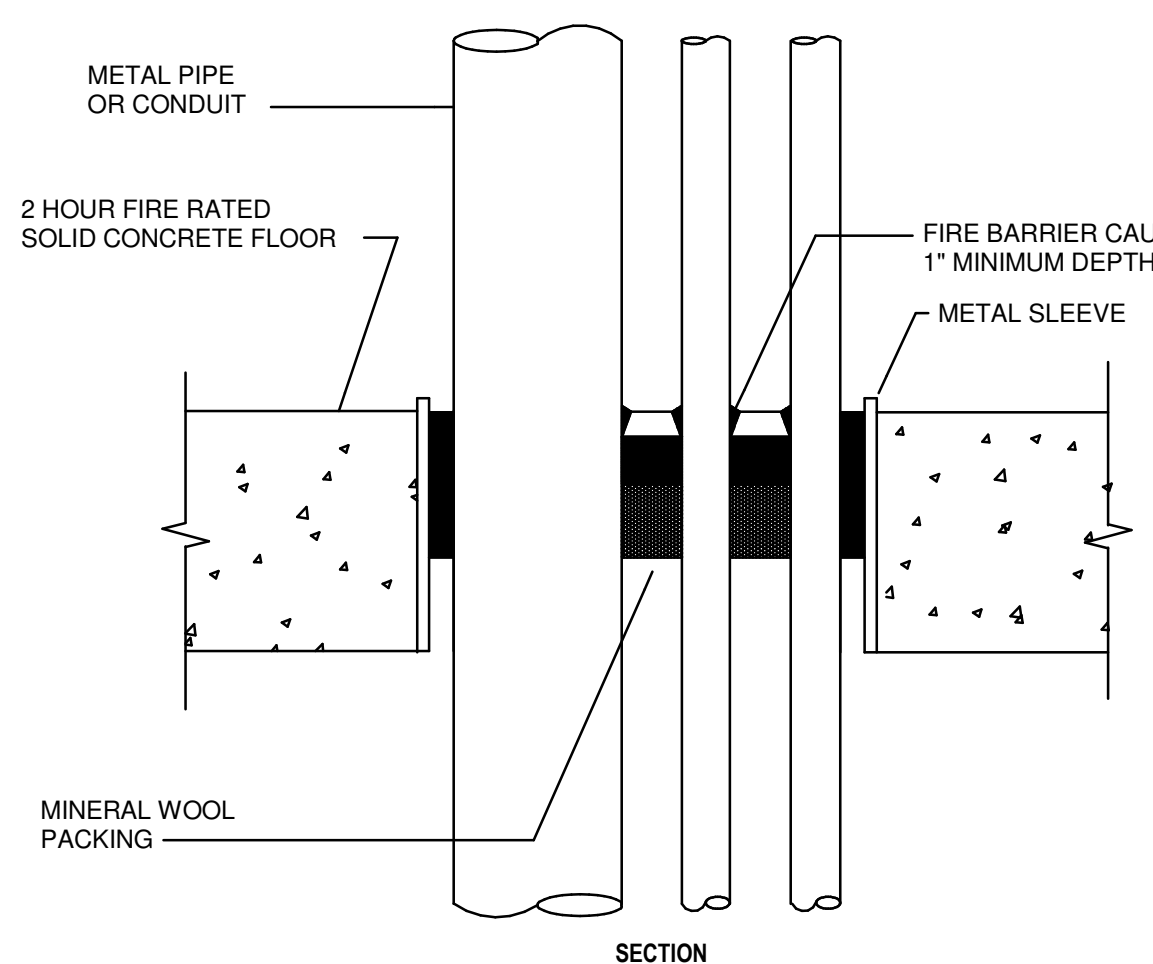
- (1) WALL
- (2) CABLE/CONDUIT. FOR MULTIPLE CABLE/CONDUITS PROVIDE 1/2" MINIMUM SEPARATION USING THERMO-FIBER INSULATION
- (3) FIRE RESISTANT FOAM SEALANT
- (4) FIELD FABRICATED GALVANIZED SHEET METAL COLLAR (FOR CABLE TRAY PROVIDE MINIMUM 10" W X 5" H OPENING)
- (5) DAMMING METHOD - PER FOAM MANUFACTURER'S RECOMMENDATIONS

1 PENETRATION OF 2 HOUR FIRE RATED OR SMOKE PARTITION
EF-851 N.T.S.

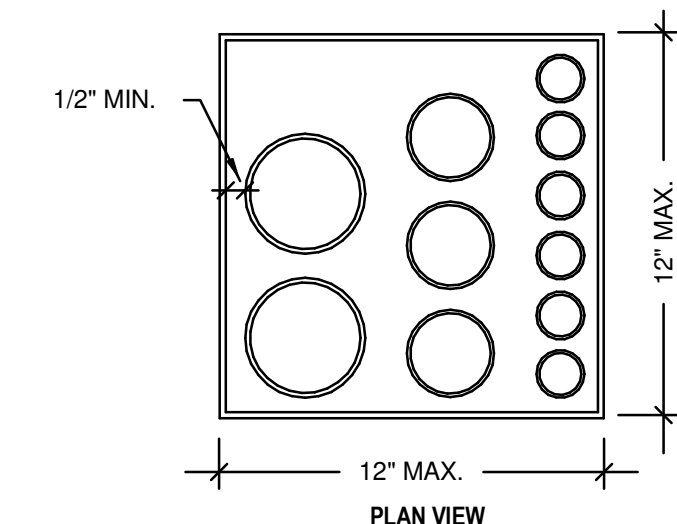


- NOTES:
- (1) SUBSTITUTE "42 INCHES" FOR 480V OR 480/277V PANELS.

2 OSHA/NEC PLACARD
EF-851 N.T.S.



SECTION



PLAN VIEW

3 MULTIPLE CONDUIT PENETRATIONS OF 2 HOUR FIRE RATED CONCRETE FLOOR
EF-851 N.T.S.

ISSUANCES

No.	Description	Date
1	PHASE 2 CD 100%	08/15/2018
2	100% CD REVIEW	10/15/18
3	ISSUED FOR BID & PERMIT	11/15/18
4	RECORD DRAWING	08/16/19
5	CD ISSUANCE - NH	02/09/20
6	CD ISSUANCE - NH	04/14/20
7	BID & PERMIT - NH	05/22/20

Drawn By

EM

Checked By

JS

Client

Number

514

Project

Number

15576

DRAWING

ELECTRICAL PHASE 2
FO DETAILS

SHEET NO.

EF-851

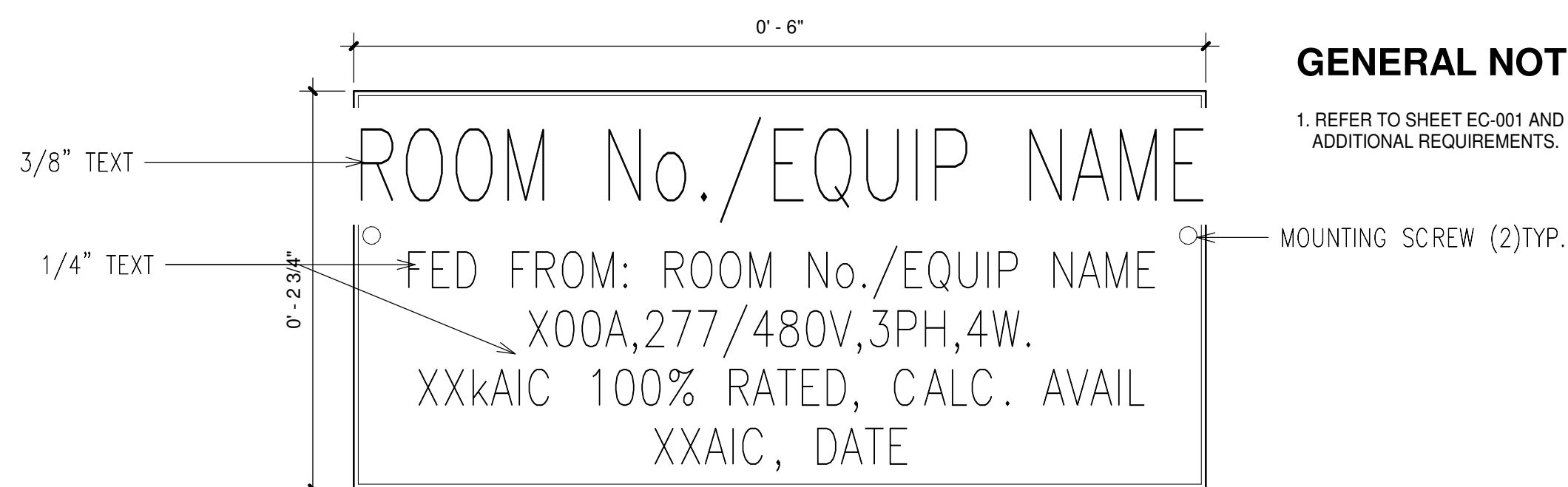
ISSUANCES

No.	Description	Date
1	PHASE 2 DD 100%	08/15/2018
2	100% CD REVIEW	10/15/18
3	ISSUED FOR BID & PERMIT	11/15/18
4	RECORD DRAWING	08/16/19
5	DD ISSUANCE - NH	02/09/20
6	CD ISSUANCE - NH	04/14/20
7	BID & PERMIT - NH	05/22/20

Drawn By	EM
Checked By	JS
Client Number	514
Project Number	15576

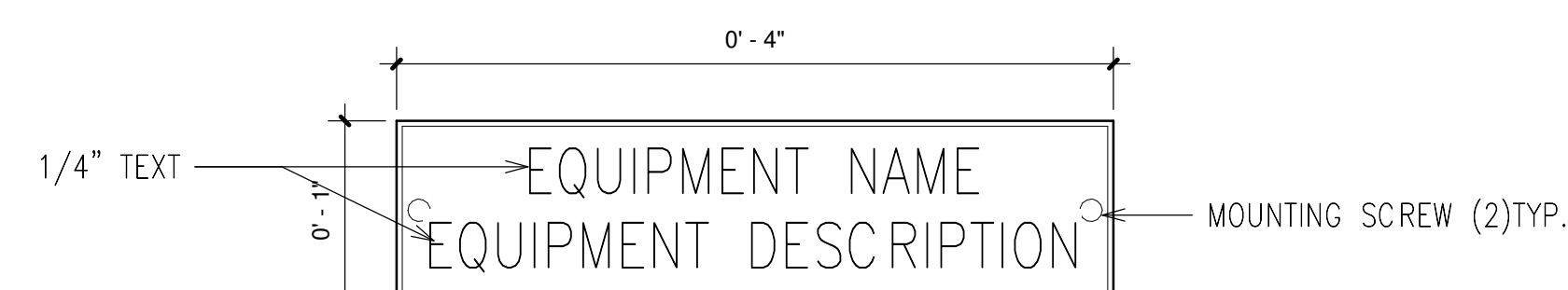
DRAWING
ELECTRICAL PHASE 2
FO DETAILS

SHEET NO.
EF-852



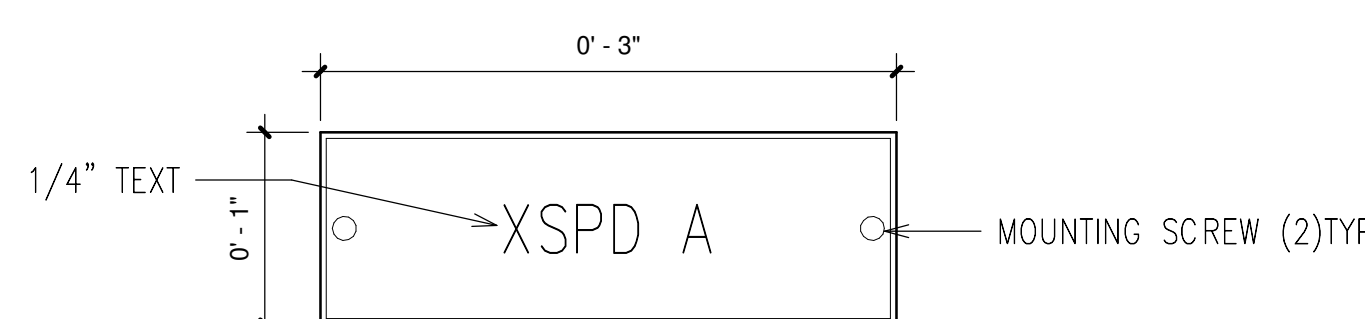
6 TYPICAL SWITCHBOARD NAMEPLATE

EF-852 12" = 1'-0"



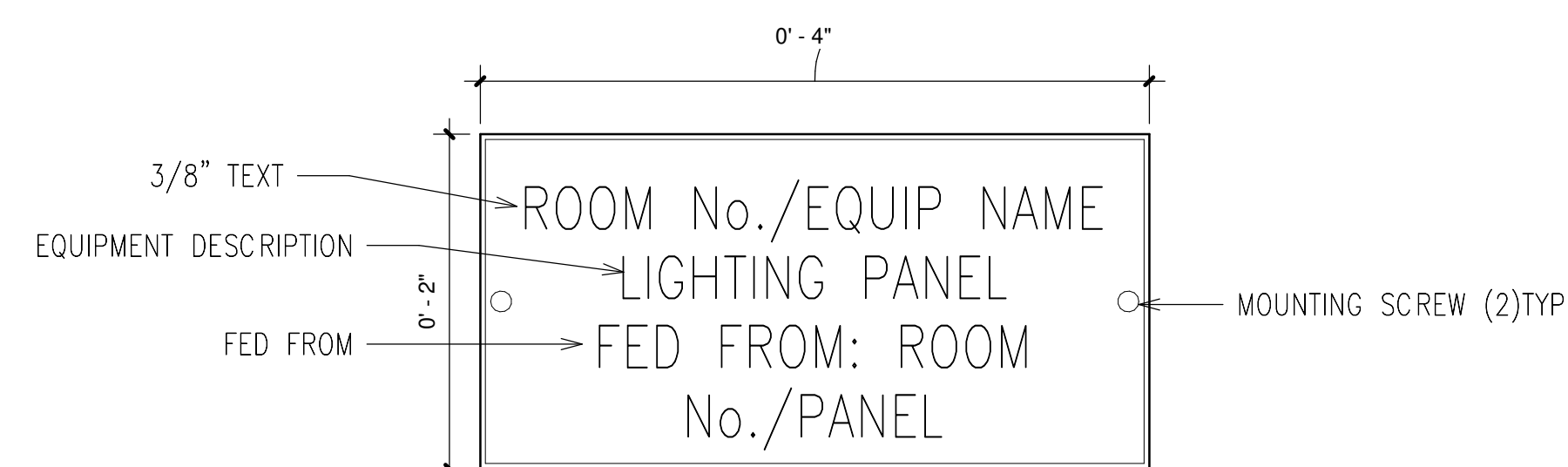
7 TYPICAL LARGE BREAKER NAMEPLATE

EF-852 12" = 1'-0"



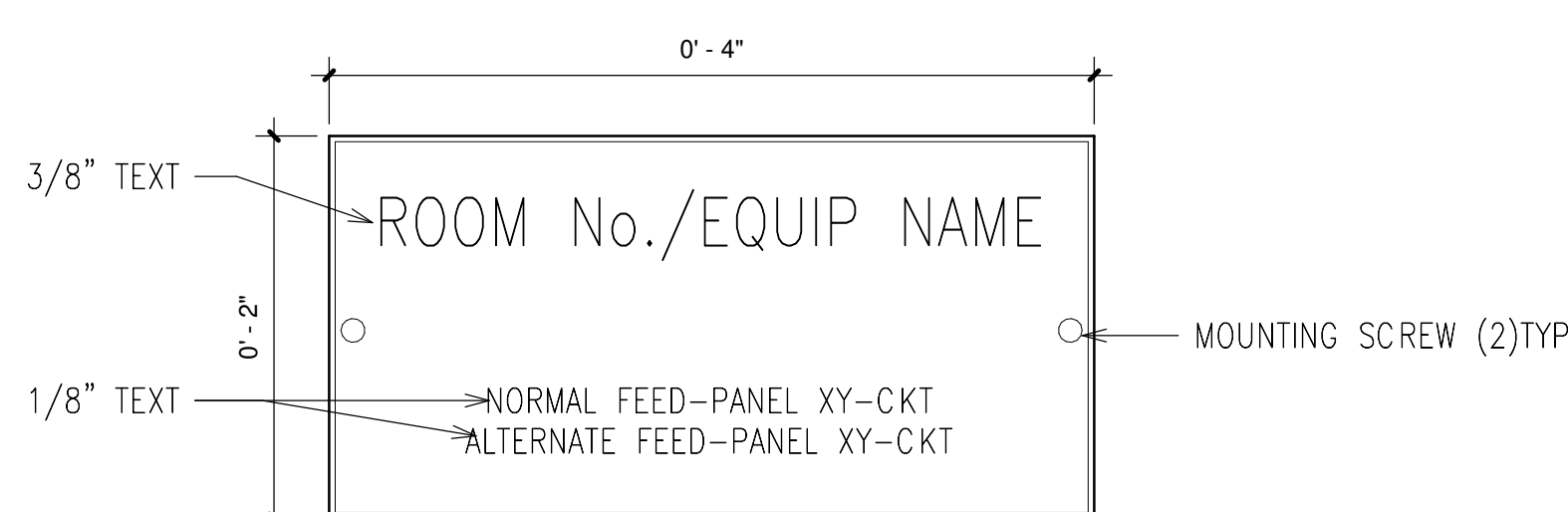
8 TYPICAL SMALL BREAKER NAMEPLATE

EF-852 12" = 1'-0"



9 TYPICAL EQUIPMENT NAMEPLATE

EF-852 12" = 1'-0"

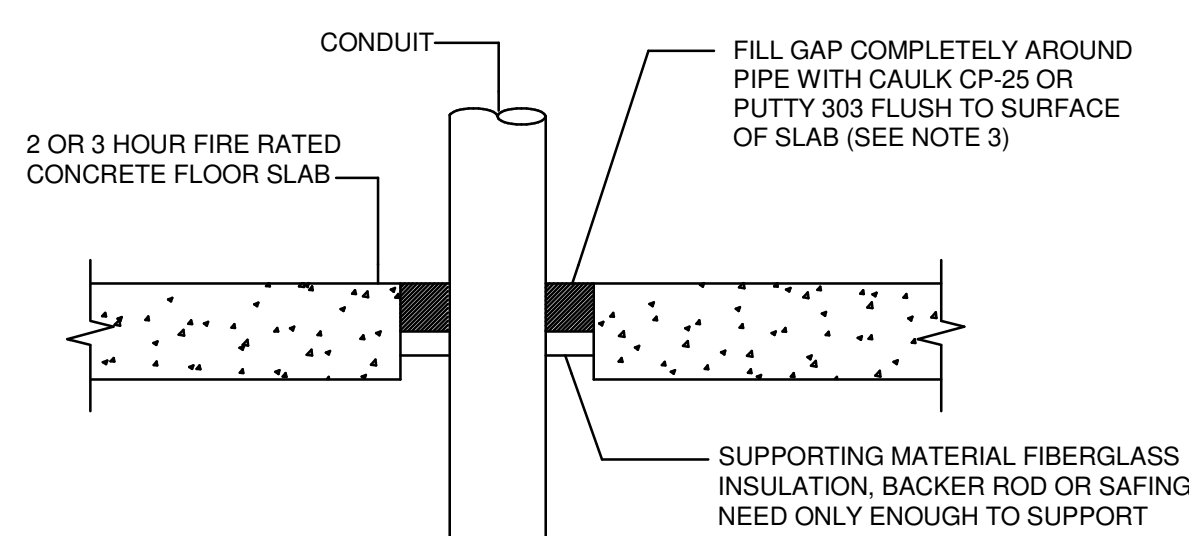


10 TYPICAL EQUIPMENT NAMEPLATE WITH MULTIPLE POWER SOURCES

EF-852 12" = 1'-0"

GENERAL NOTES

1. REFER TO SHEET EC-001 AND SPECIFICATION SECTION 260553 FOR ADDITIONAL REQUIREMENTS.

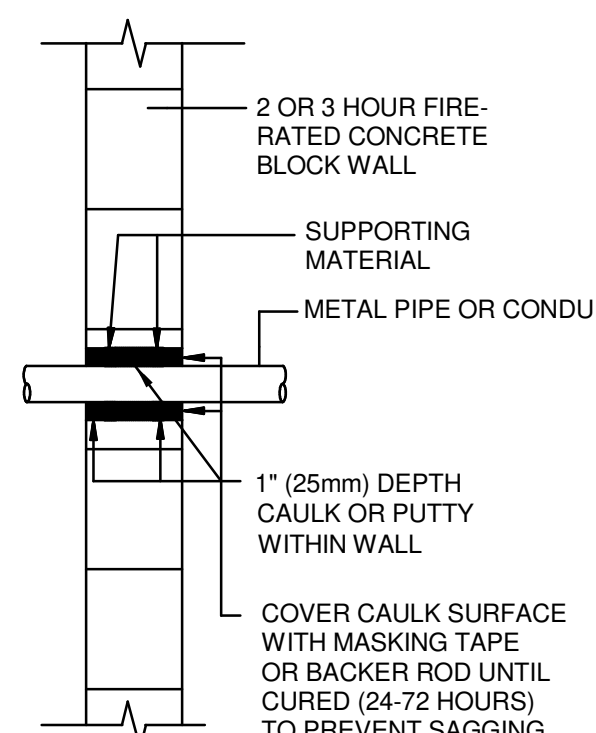


SECTION VIEW

- NOTES:
- (1) FOR CONCRETE BLOCK WALLS, CENTER CAULK OR PUTTY WITHIN WALL WITH DAMMING ON BOTH SIDES.
 - (2) RECOMMENDATIONS BASED ON PRODUCT PERFORMANCE PER ASTM E-814 (UL 1479) FIRE TEST AND UL CLASSIFICATION FIRESTOP SYSTEMS 49, 53 AND 91.
 - (3) WET INSTALLED DEPTH OF CAULK OR PUTTY DEPENDS ON TYPE AND SIZE OF PIPE.

WET DEPTH	PIPE SIZE	FIRE RATING
1/2" (13mm)	MAX 8" (200mm)	2 HOURS
1" (25mm)	MAX 6" (150mm)	3 HOURS

- (4) UP TO 40% SHRINKAGE OF CAULK OR PUTTY IS ACCEPTABLE AFTER WET DEPTH INSTALLATION.
- (5) OPTIONS TO MASKING TAPE TO PREVENT SAGGING:
 - A. INSTALL ADDITIONAL DAMMING MATERIAL OVER PRODUCT TO HOLD WITHIN OPENING.
 - B. REMOVE PRODUCT FROM CONTAINER AND ALLOW TO AIR CURE IN SMALL BATCHES FOR 12 HOURS, THEN HAND FORM INTO OPENING.
- (6) WHEN ANNULAR SPACE EXCEEDS 3/4" (19mm), A 28 AWG METAL COVER PLATE MUST BE MECHANICALLY SECURED ATOP THE FIRE BARRIER APPLICATION, OR TIGHTLY PACK A NON-COMBUSTIBLE DAMMING MATERIAL ATOP INSTALLED CAULK OR PUTTY. COVER PLATE NOT REQUIRED FOR 2 HOUR RATING UP TO 1 7/8" (48mm) ANNULAR SPACE.

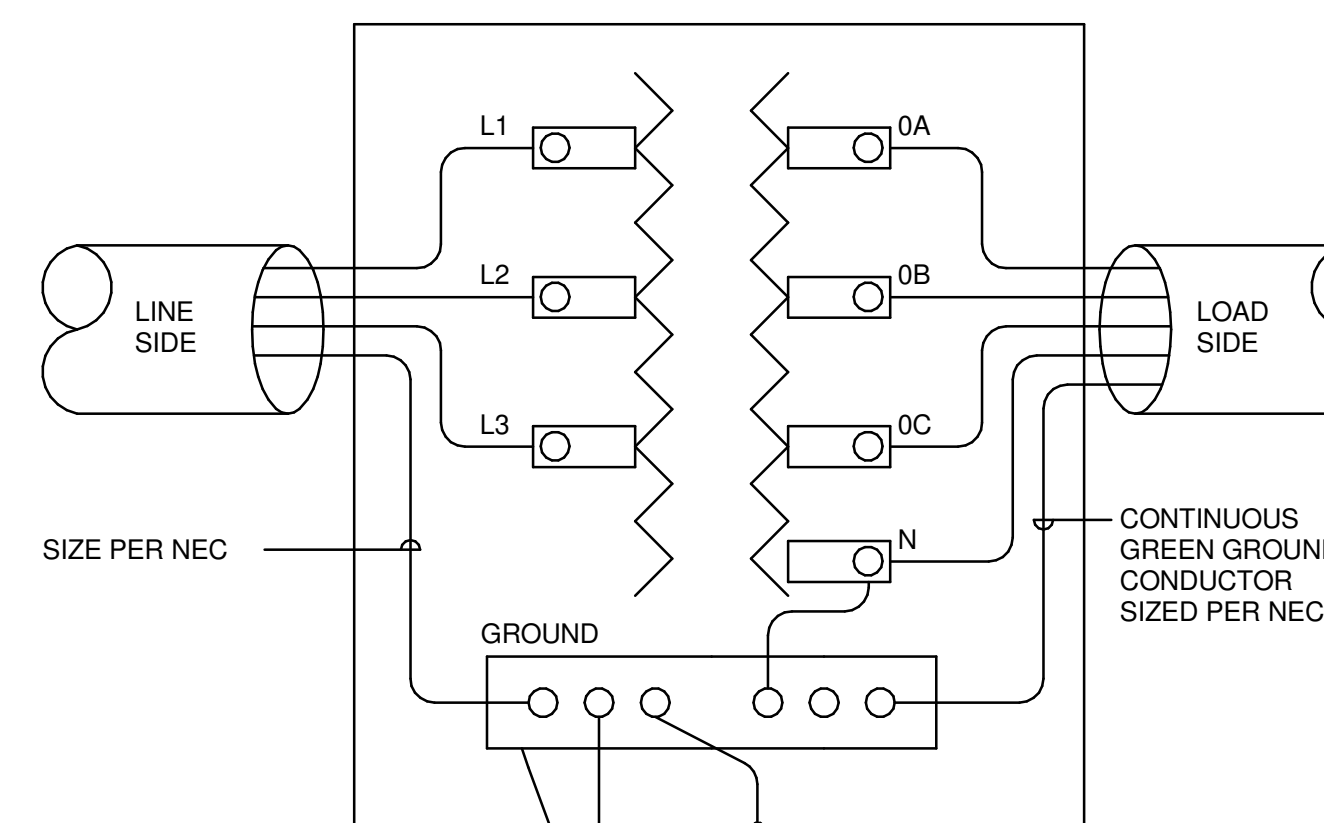


SECTION VIEW

4 SINGLE CONDUIT PENETRATION OF 2 OR 3 HOUR FIRE RATED GYPSUM WALLBOARD WALL

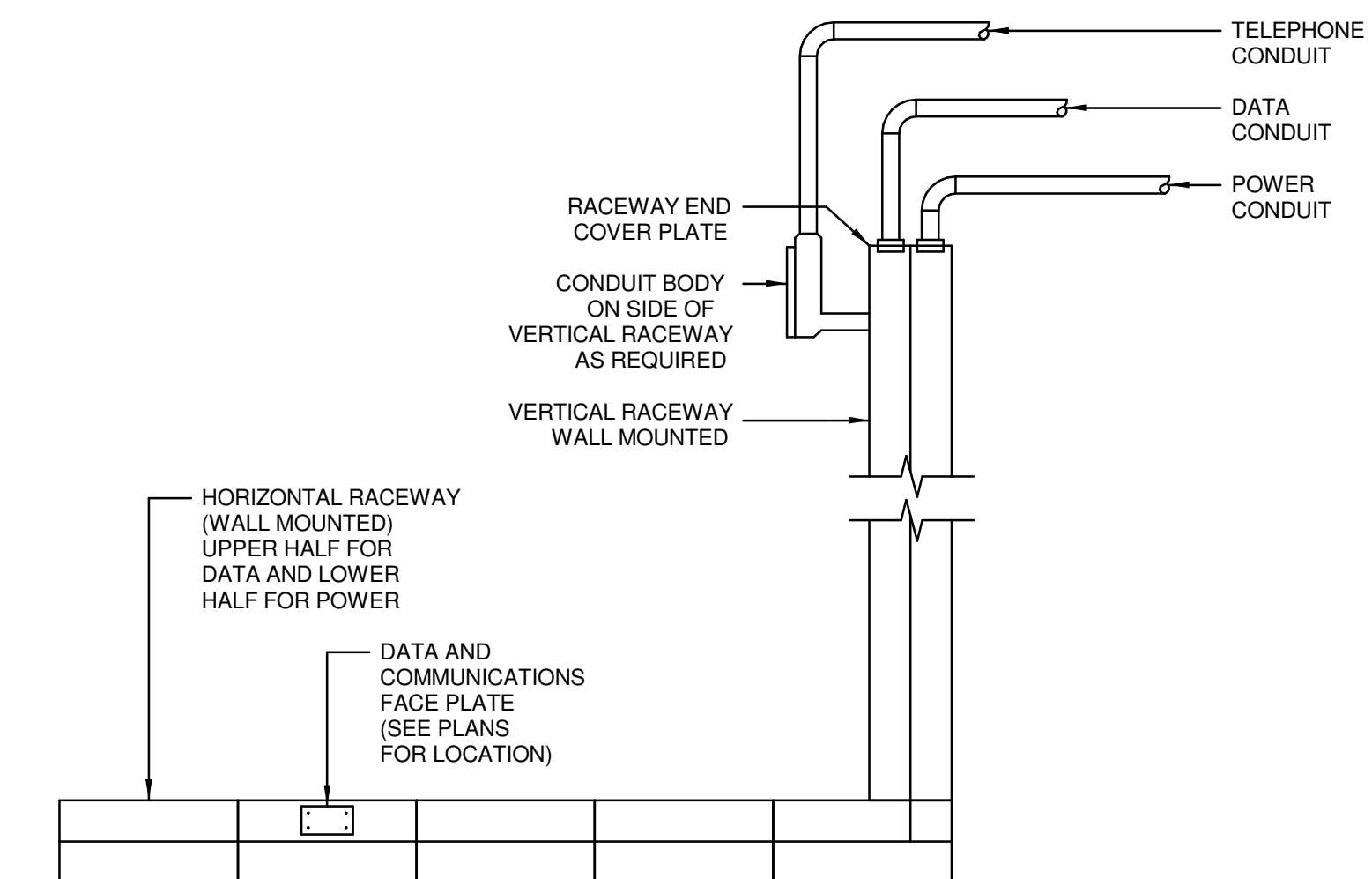
EF-852 N.T.S.

NOTES:
TYPICAL DRY TYPE TRANSFORMER 480V DELTA PRIMARY 208Y/120V SECONDARY - SEE SPECIFICATIONS.



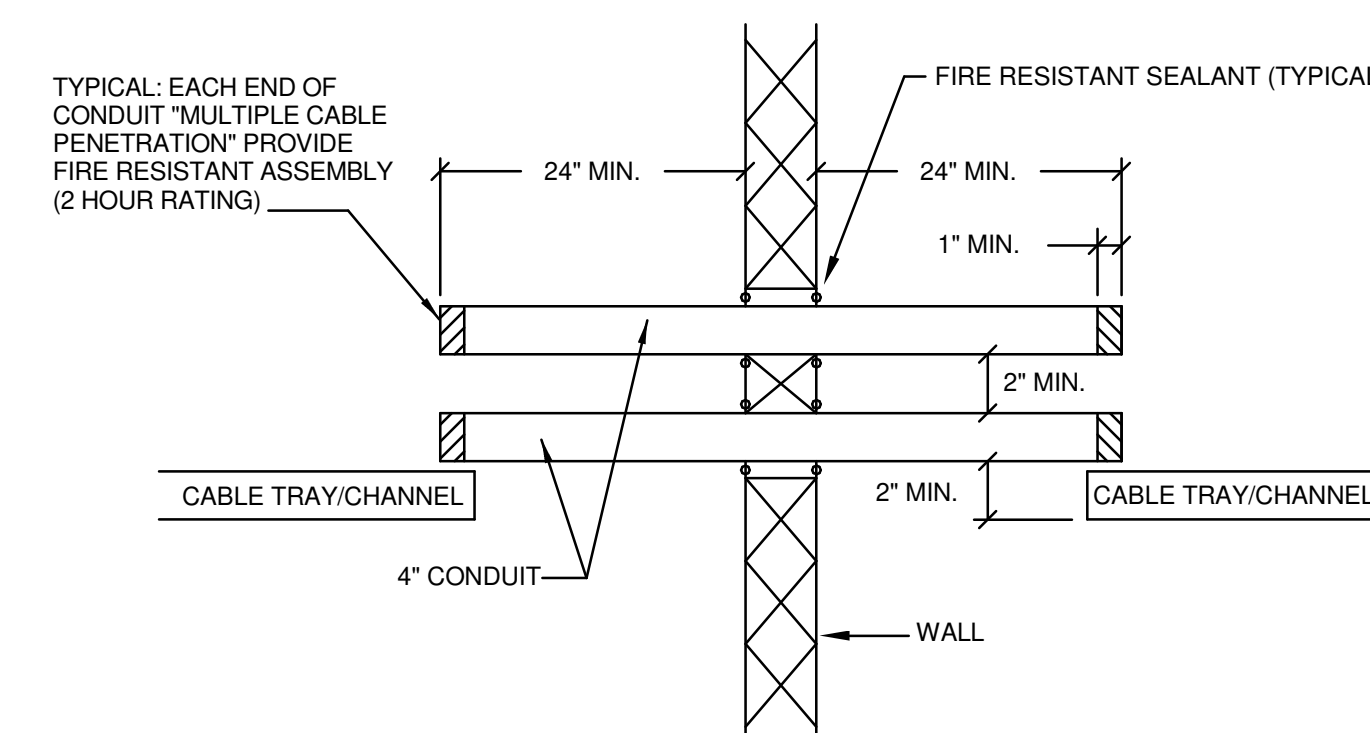
5 TYPICAL TRANSFORMER GROUNDING

EF-852 N.T.S.



3 RACEWAY FEED THROUGH VERTICAL RACEWAY

EF-852 N.T.S.

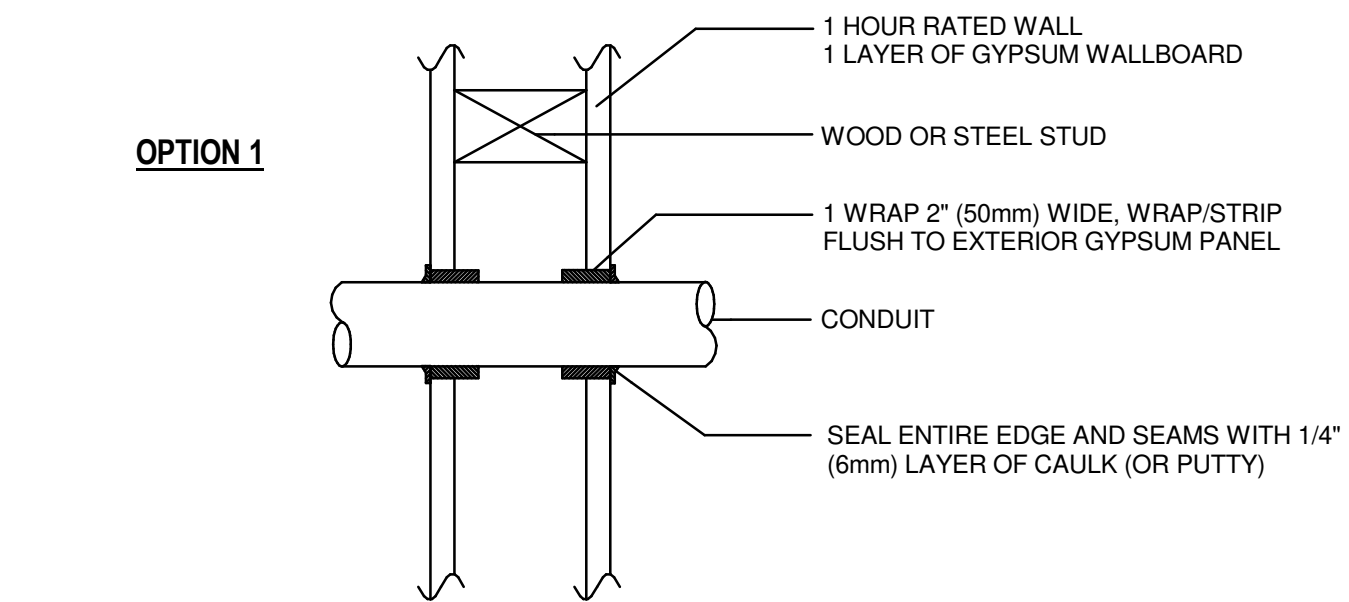
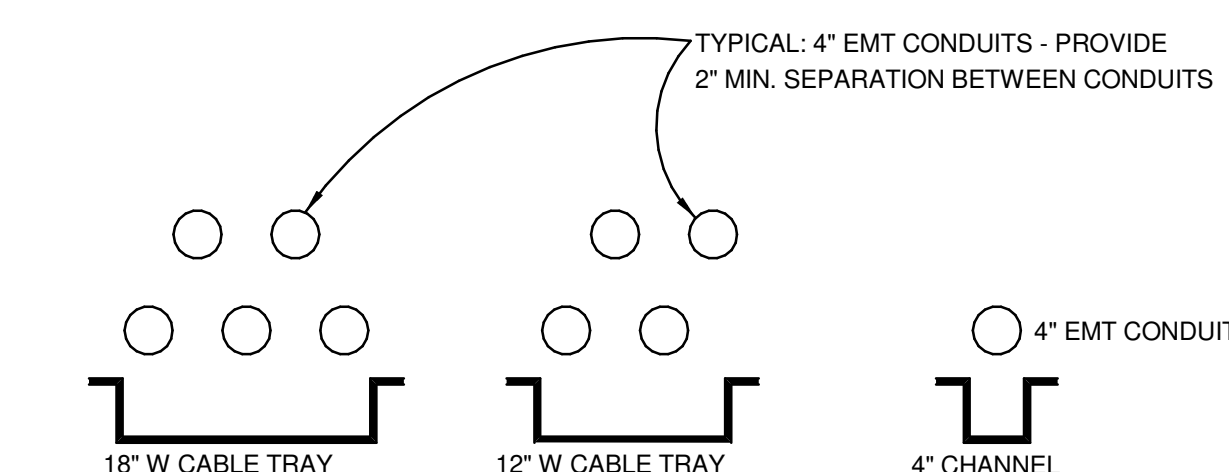


SECTION AT FIRE RATED WALL

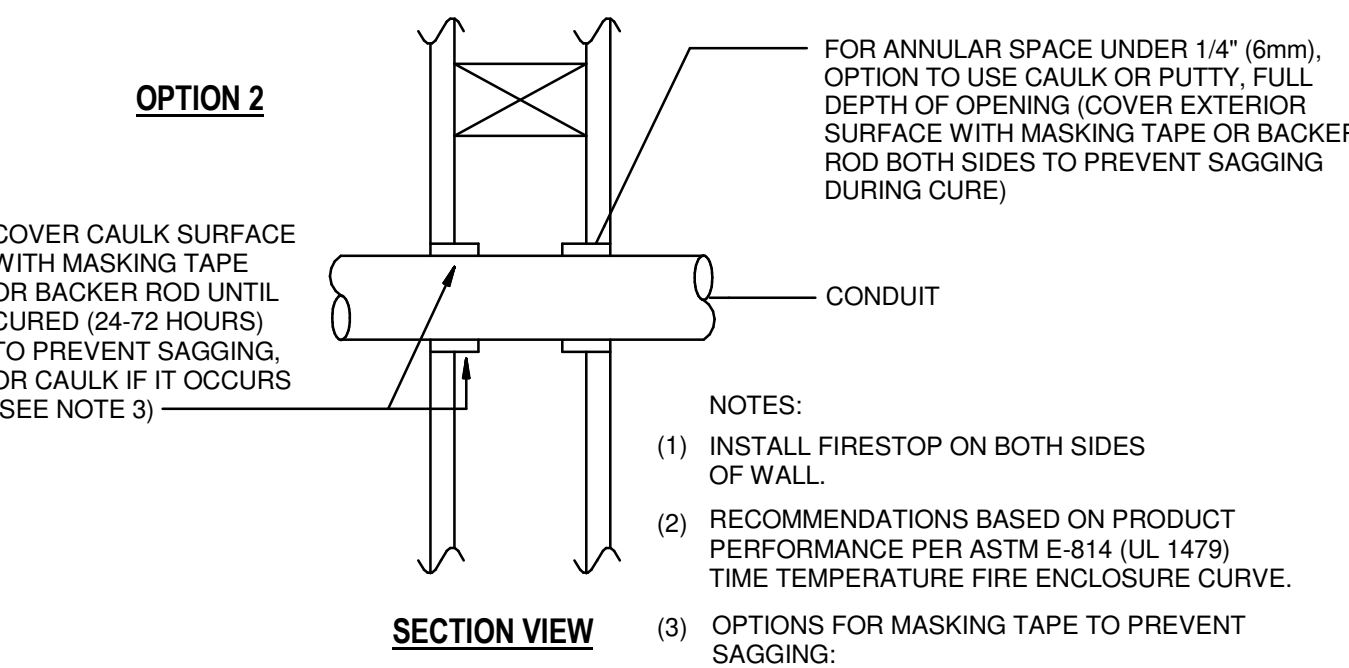
SCALE: NONE

2 CABLE TRAY PENETRATION OF FIRE RATED WALL

EF-852 N.T.S.



SECTION VIEW



SECTION VIEW

- NOTES:
- (1) INSTALL FIRESTOP ON BOTH SIDES OF WALL.
 - (2) RECOMMENDATIONS BASED ON PRODUCT PERFORMANCE PER ASTM E-814 (UL 1479) TIME TEMPERATURE FIRE ENCLOSURE CURVE.
 - (3) OPTIONS FOR MASKING TAPE TO PREVENT SAGGING:
 - A. INSTALL ADDITIONAL DAMMING MATERIAL INSIDE WALL AND OVER PRODUCT TO HOLD WITHIN OPENING.
 - B. REMOVE PRODUCT FROM CONTAINER AND ALLOW TO AIR CURE IN SMALL BATCHES FOR 12 HOURS, THEN HAND FORM INTO OPENING.

1 SINGLE CONDUIT PENETRATION OF 1 HOUR FIRE RATED GYPSUM WALLBOARD WALL

EF-852 N.T.S.

(EXISTING) PANELBOARD SCHEDULE

PANEL DESIGNATION 1NLP2A **LOCATION** ELECTRICAL 114 **FLOOR** LEVEL 01

VOLTAGE 120/208 Wye **PHASE** 3 WIRE **FED FROM** 1NLD1

MAIN TYPE MLO **BUS RATING** 225 A **FAULT CURRENT RATING** 10K AIC

MAIN RATING 225 A **MOUNTING** SURFACE **FAULT...** 5.8 K AIC

REMARKS _____

DESCRIPTION	BRKR AMP. POLES	CKT NO	LEFT SIDE, KVA			RIGHT SIDE, KVA			BRKR AMP. POLES	DESCRIPTION
			A	B	C	A	B	C		
(EXISTING) VRF	20 A	2	1	0.07			0.07	2	(EXISTING) VRF	
(EXISTING) VRF	20 A	3		0.07			0.07	4	20 A SPARE	
(EXISTING) VRF	20 A	5		0.07			0.00	6	1 20 A SPARE	
BAS PANEL LEVEL 01	20 A	7	0.07				0.07	8	2 20 A (EXISTING) VRF	
OFFICE SWITCHED REC.	20 A	9		0.50			0.07	10		
OFFICE WORKSTATIONS	20 A	11		0.72			0.07	12	2 20 A (EXISTING) VRF	
GENERAL RECEPTACLES	20 A	13	0.72				0.07	14		
GENERAL RECEPTACLE	20 A	15		0.36			0.36	16	1 20 A REC COLLABORATION 143	
OFFICE SWITCHED REC.	20 A	17		0.18			0.18	18	1 20 A FPM COLLABORATION 143	
OFFICE WORKSTATIONS	20 A	19	0.72				0.72	20	1 20 A REC BREAK AREA	
REC CONFERENCE 144	20 A	21		0.72			0.18	22	1 20 A MICROWAVE COLLAB. 143	
REC CONFERENCE 144	20 A	23		0.90			0.18	24	1 20 A COFFEE MAKER COLLAB.	
FLOOR BOX...	20 A	25	0.18				0.18	26	1 20 A MICROWAVE KITCHEN 142	
SPARE	20 A	27		0.50			0.18	28	1 20 A MICROWAVE KITCHEN 142	
SPARE	20 A	29		0.00			0.18	30	1 20 A MICROWAVE KITCHEN 142	
SPARE	20 A	31	0.00				0.00	32	1 20 A REF KITCHEN 142	
SPARE	20 A	33		0.00			0.18	34	1 20 A REF KITCHEN 142	
SPARE	20 A	35		0.00			0.00	36	-- -- SPARE	
SPARE	20 A	37	0.00				0.00	38	-- -- SPARE	
SPARE	20 A	39		0.00			0.00	40	-- -- SPARE	
SPARE	20 A	41		0.00			0.00	42	-- -- SPARE	

PHASE SUBTOTALS (KVA): 3.06 3.20 2.48 **MAX CONNECTED PHASE** 27 A

PHASE SUBTOTAL (AMPS): 26 27 21

LOAD CLASSIFICATION	CONNECTED (KVA)	DESIGN FACTOR	DESIGN (KVA)
APPLIANCE		100%	
LIGHTING		125%	
MOTOR	0.00	125% LARGEST 100% OTHER	0.00
RECEPTACLE	6.66	100% FIRST 10KVA 50% OTHER	6.66
TOTALS	6.74		6.74

NOTES

1. NOT USED.

2. PANEL IS PROTECTED BY 100A UPSTREAM OCPD.

(EXISTING) PANELBOARD SCHEDULE

PANEL DESIGNATION 1NLP1B **LOCATION** ELECTRICAL 128 **FLOOR** LEVEL 01

VOLTAGE 120/208 Wye **PHASE** 3 WIRE **FED FROM** 1NLD2

MAIN TYPE MLO **BUS RATING** 225 A **FAULT CURRENT RATING** 10K AIC

MAIN RATING 225 A **MOUNTING** SURFACE **FAULT...** 5.7 K AIC

REMARKS _____

DESCRIPTION	BRKR AMP. POLES	CKT NO	LEFT SIDE, KVA			RIGHT SIDE, KVA			BRKR AMP. POLES	DESCRIPTION
			A	B	C	A	B	C		
(EXISTING) REC RM 128	20 A	1	1	0.18			0.50	2	1 20 A (EXISTING) NAC RM 128	
(EXISTING) PLAZA...	20 A	3		0.36			0.72	4	1 20 A OFFICE SWITCHED REC	
REC COLLABORATION 130	20 A	5		0.36			1.08	6	1 20 A WORKSTATION	
OFFICE WORKSTATION	20 A	7	1.08				1.08	8	1 20 A WORKSTATION	
OFFICE SWITCHED REC	20 A	9		1.08			1.08	10	1 20 A WORKSTATION	
WORKSTATION	20 A	11		1.08			0.50	12	1 20 A FLOOR BOX...	
GENERAL RECEPTACLE	20 A	13	0.54				0.50	14	1 20 A FLOOR BOX...	
WORKSTATION	20 A	15		1.08			0.50	16	1 20 A FLOOR BOX...	
RECEPTACLE CORRIDO...	20 A	17		0.36			0.50	18	1 20 A FLOOR BOX...	
REC COLLABORATION 127	20 A	19	0.90				0.50	20	1 20 A FLOOR BOX...	
FPM COLLABORATION 127	20 A	21		0.18			0.50	22	1 20 A FLOOR BOX...	
RECEPTACLE COPY 126	20 A	23		0.18			0.00	24	1 20 A SPARE	
SPARE	20 A	25	0.00				0.00	26	1 20 A SPARE	
SPARE	20 A	27		0.00			0.00	28	1 20 A SPARE	
SPARE	20 A	29		0.00			0.00	30	1 20 A SPARE	
SPARE	20 A	31	0.00				0.00	32	1 20 A SPARE	
SPARE	20 A	33		0.00			0.00	34	1 20 A SPARE	
SPARE	20 A	35		0.00			0.00	36	1 20 A SPARE	
SPARE	20 A	37	0.00				0.00	38	1 20 A SPARE	
SPARE	20 A	39		0.00			0.00	40	1 20 A SPARE	
SPARE	20 A	41		0.00			0.00	42	1 20 A SPARE	

PHASE SUBTOTALS (KVA): 5.28 5.50 4.06 **MAX CONNECTED PHASE** 47 A

PHASE SUBTOTAL (AMPS): 46 47 34

LOAD CLASSIFICATION	CONNECTED (KVA)	DESIGN FACTOR	DESIGN (KVA)
APPLIANCE		100%	
LIGHTING		125%	
MOTOR		125% LARGEST 100% OTHER	
RECEPTACLE	11.16	100% FIRST 10KVA 50% OTHER	10.58
TOTALS	14.84		14.26

NOTES

1. PANEL IS PROTECTED BY 100A UPSTREAM OCPD.

(EXISTING) PANELBOARD SCHEDULE

PANEL DESIGNATION 1NLP2B **LOCATION** ELECTRICAL 128 **FLOOR** LEVEL 01

VOLTAGE 120/208 Wye **PHASE** 3 WIRE **FED FROM** 1NLD2

MAIN TYPE MLO **BUS RATING** 225 A **FAULT CURRENT RATING** 10K AIC

MAIN RATING 225 A **MOUNTING** SURFACE **FAULT...** 5.7 K AIC

REMARKS _____

DESCRIPTION	BRKR AMP. POLES	CKT NO	LEFT SIDE, KVA			RIGHT SIDE, KVA			BRKR AMP. POLES	DESCRIPTION
			A	B	C	A	B	C		
(EXISTING) VRF	20 A	2	1	0.07			0.07	2	(EXISTING) VRF	
(EXISTING) VRF	20 A	3		0.07			0.07	4	2 20 A	
OFFICE SWITCHED REC	20 A	5		0.90			0.90	6	1 20 A OFFICE SWITCHED REC	
OFFICE WORKSTATIONS	20 A	7	0.72				0.72	8	1 20 A WORKSTATIONS	
CORRIDOR RECEPT.	20 A	9		0.36			1.08	10	1 20 A WORKSTATIONS	
(EXISTING)	20 A	11		0.50			0.54	12	1 20 A OFFICE SWITCHED REC	
OFFICE WORKSTATIONS	20 A	13	1.08				1.08	14	1 20 A WORKSTATIONS	
OFFICE SWITCHED REC	20 A	15		0.90			1.08	16	1 20 A WORKSTATIONS	
WORKSTATIONS	20 A	17		1.08			0.50	18	1 20 A FLOOR BOX...	
WORKSTATIONS	20 A	19	1.08				0.18	20	1 20 A POWER...	
FLOOR BOX...	20 A	21		0.50			0.50	22	1 20 A FLOOR BOX...	
FLOOR BOX...	20 A	23		0.50			0.50	24	1 20 A FLOOR BOX...	
FLOOR BOX...	20 A	25	0.50				0.36	26	1 20 A RECEPTACLE CORRIDO...	
SPARE	20 A	27		0.00			0.00	28	1 20 A SPARE	
SPARE	20 A	29		0.00			0.00	30	1 20 A SPARE	
SPARE	20 A	31	0.00				0.00	32	-- -- SPARE	
SPARE	20 A	33		0.00			0.00	34	-- -- SPARE	
SPARE	20 A	35		0.00			0.00	36	-- -- SPARE	
SPARE	20 A	37	0.00				0.00	38	-- -- SPARE	
SPARE	20 A	39		0.00			0.00	40	-- -- SPARE	
SPARE	20 A	41		0.00			0.00	42	-- -- SPARE	

PHASE SUBTOTALS (KVA): 5.86 4.56 5.42 **MAX CONNECTED PHASE** 50 A

PHASE SUBTOTAL (AMPS): 50 38 46

LOAD CLASSIFICATION	CONNECTED (KVA)	DESIGN FACTOR	DESIGN (KVA)
APPLIANCE		100%	
LIGHTING		125%	
MOTOR		125% LARGEST 100% OTHER	
RECEPTACLE	12.38	100% FIRST 10KVA 50% OTHER	11.19
TOTALS	15.85		14.66

NOTES

1. NOT USED.

2. PANEL IS PROTECTED BY 100A UPSTREAM OCPD.

PANEL DESIGNATION	1NLP2A	1NLP1B	1NLP2B
REVISION	-	-	-
DESCRIPTION	-	-	-

Drawn By

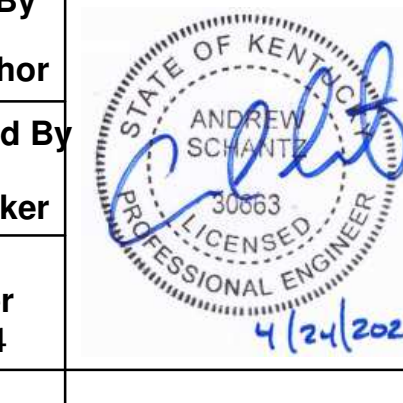
Author

Checked By

Checker

Client Number 514

Project Number 15576



DRAWING

**ELECTRICAL PHASE 2
FO PANEL
SCHEDULES**

SHEET NO. **EF-954**

5/21/2020 11:04:26 AM

PANELBOARD SCHEDULE 1CLP1A, 120/208 V, 100 A MAIN RATING, PROCEDURE ROOM 151B, FLOOR LEVEL 01, 3 PHASE 4 WIRE. Includes detailed load schedule table and summary statistics.

PANELBOARD SCHEDULE 1CLP2A, 120/208 V, 100 A MAIN RATING, PROCEDURE ROOM 151E, FLOOR LEVEL 01, 3 PHASE 4 WIRE. Includes detailed load schedule table and summary statistics.

PANELBOARD SCHEDULE 1CLP3A, 120/208 V, 100 A MAIN RATING, PROCEDURE ROOM 151F, FLOOR LEVEL 01, 3 PHASE 4 WIRE. Includes detailed load schedule table and summary statistics.

PANELBOARD SCHEDULE 1CLP4A, 120/208 V, 100 A MAIN RATING, PROCEDURE ROOM 151J, FLOOR LEVEL 01, 3 PHASE 4 WIRE. Includes detailed load schedule table and summary statistics.

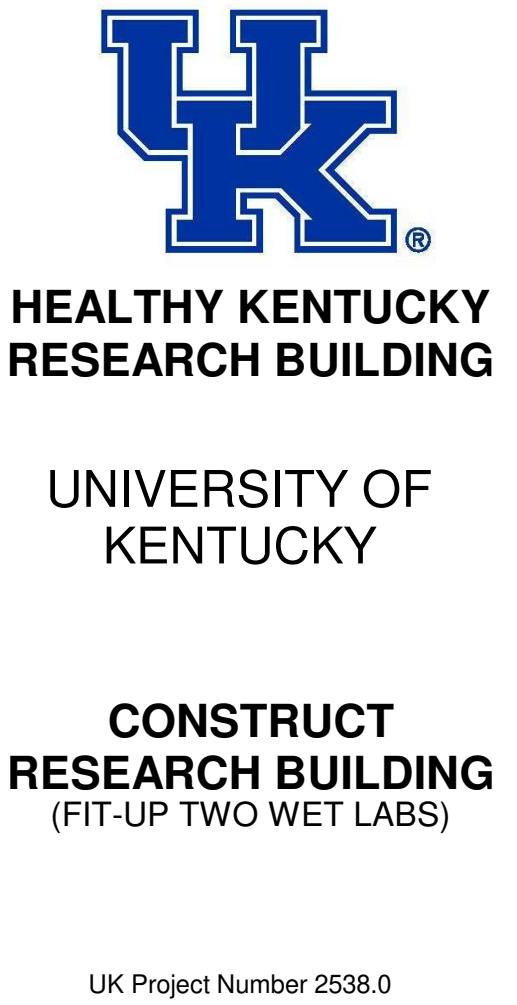
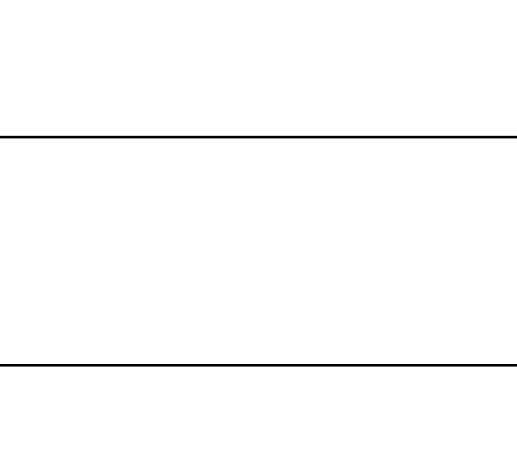
PANELBOARD SCHEDULE 1CLP1B, 120/208 V, 100 A MAIN RATING, LINEAR EQUIP ROOM 152C, FLOOR LEVEL 01, 3 PHASE 4 WIRE. Includes detailed load schedule table and summary statistics.

PANELBOARD SCHEDULE 1CLP2B, 120/208 V, 100 A MAIN RATING, PROCEDURE ROOM 152E, FLOOR LEVEL 01, 3 PHASE 4 WIRE. Includes detailed load schedule table and summary statistics.

PANELBOARD SCHEDULE 1CLP3B, 120/208 V, 100 A MAIN RATING, PROCEDURE ROOM 152F, FLOOR LEVEL 01, 3 PHASE 4 WIRE. Includes detailed load schedule table and summary statistics.

PANELBOARD SCHEDULE 1CLP4B, 120/208 V, 100 A MAIN RATING, PROCEDURE ROOM 152J, FLOOR LEVEL 01, 3 PHASE 4 WIRE. Includes detailed load schedule table and summary statistics.

Summary table of panelboard schedules: 1CLP1A, 1CLP2A, 1CLP3A, 1CLP4A, 1CLP1B, 1CLP2B, 1CLP3B, 1CLP4B.



ISSUANCES table with columns: No., Description, Date. Lists 3 issues related to DD, CD, and BID & PERMIT.

Professional Engineer signature block for Andrew Scott, dated 4/24/2020.

DRAWING title block: ELECTRICAL PHASE 2 FAN CRITICAL LAB PANEL SCHEDULES, SHEET NO. EF-984.

TAGGED NOTES	
D1	DEMOLISH LIGHT FIXTURES AND LIGHTING CONTROLS WITHIN THIS BOUNDARY. REMOVE CONDUIT AND CONDUCTORS BACK TO PANEL OR NEAREST JUNCTION BOX IF CIRCUIT MUST REMAIN TO SERVE DOWNSTREAM DEVICES. LABEL BREAKERS AS SPARE AS REQUIRED.
D9	SALVAGE W7 FIXTURES PRIOR TO START OF CONSTRUCTION, STORE AND PROTECT. REINSTALL IN SAME LOCATION.

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HEALTHY KENTUCKY
RESEARCH BUILDING

UNIVERSITY OF KENTUCKY
LEXINGTON, KY

CONSTRUCT
RESEARCH BUILDING
(FIT-UP TWO WET LABS)

UK Project Number 2538.0

ISSUANCES

No.	Description	Date
1	DD ISSUANCE - NIH	02/05/20
2	CD ISSUANCE - NIH	04/14/20
3	BID & PERMIT - NIH	05/22/20

Drawn By
CJC

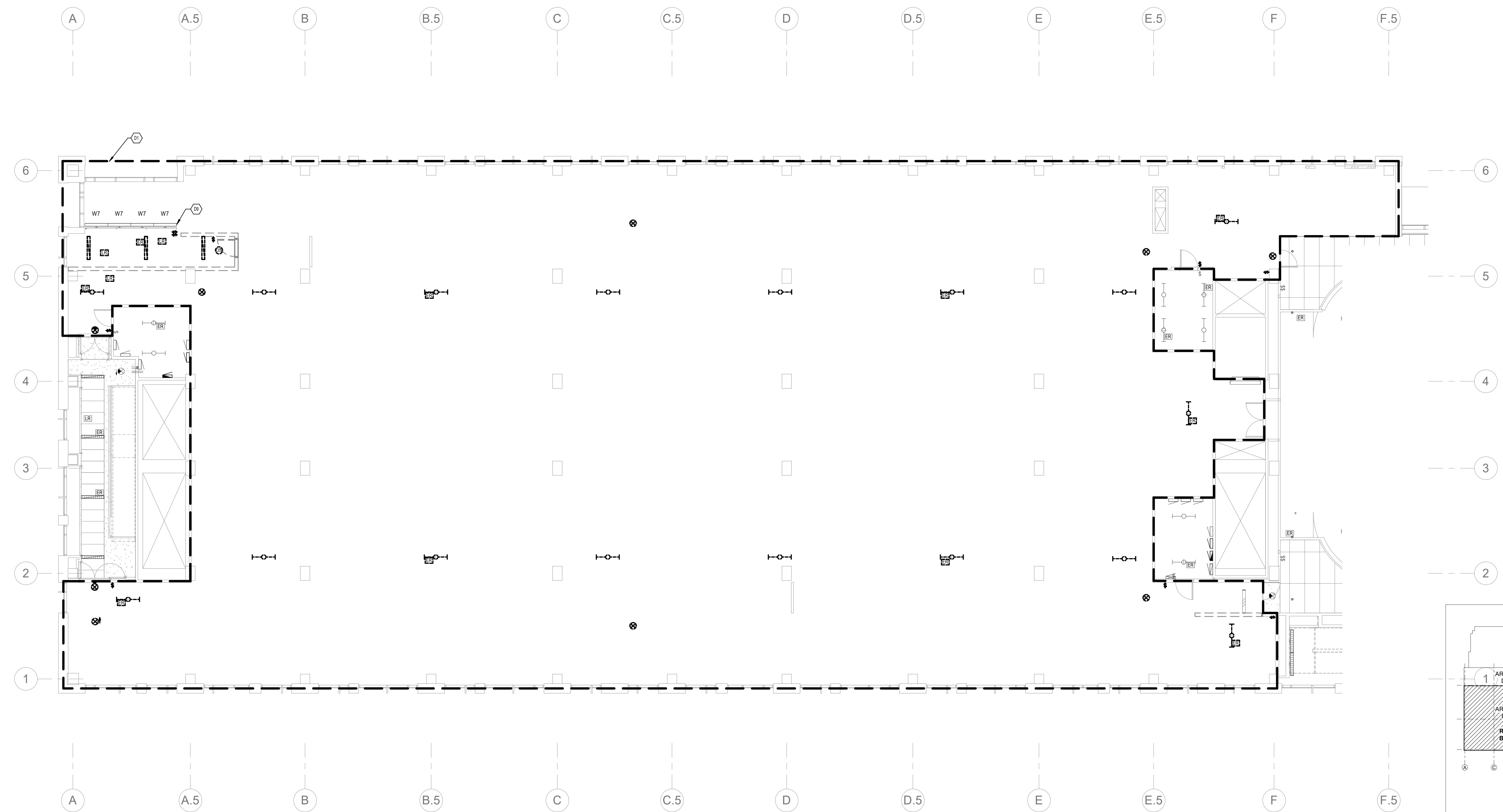
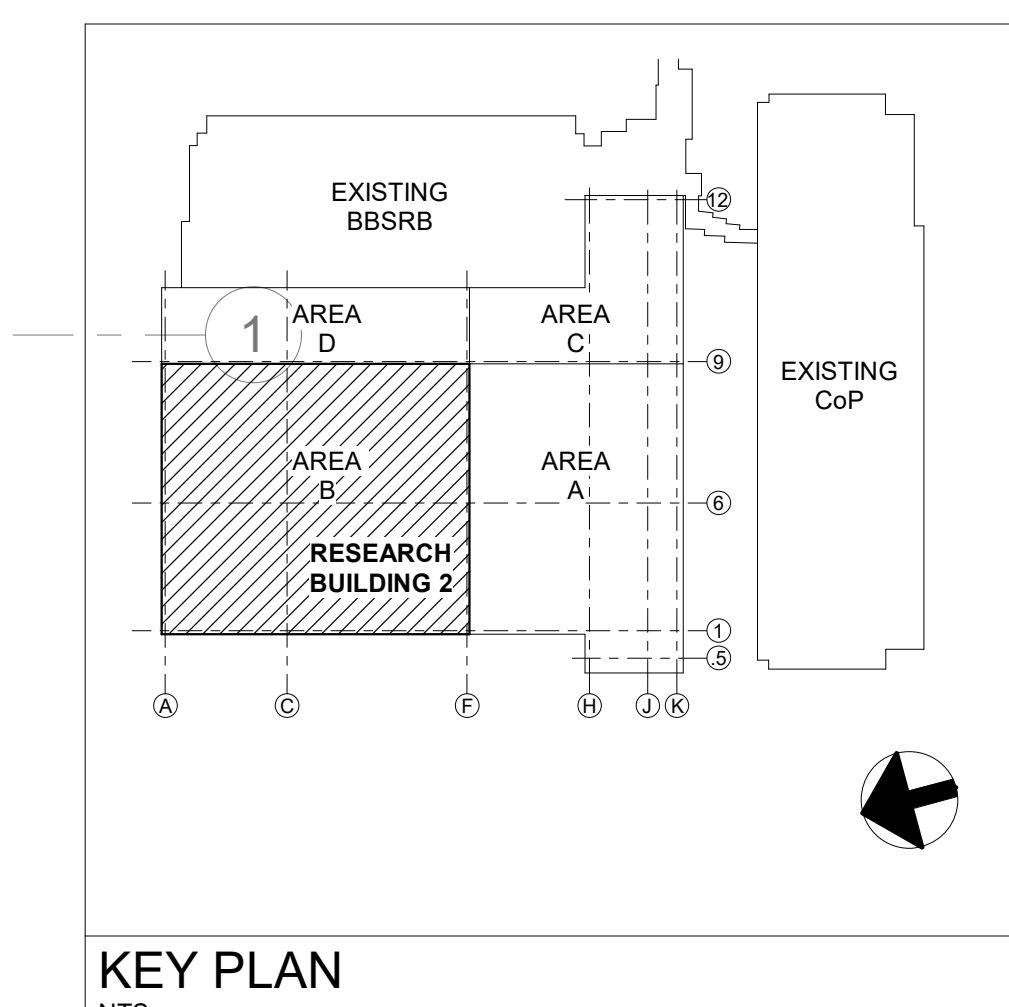
Checked By
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Client Number

Project Number
UKR15

DRAWING
LEVEL 01 PHASE 2 -
LIGHTING DEMOLITION
PLAN

SHEET NO.
EL-051



1 LEVEL 01 PHASE 2 AREA 'B' - DEMOLITION PLAN
1/8" = 1'-0"

5/22/2020 11:21:29 AM



ISSUANCES

No.	Description	Date
1	DD ISSUANCE - NIH	02/05/20
2	CD ISSUANCE - NIH	04/14/20
3	BID & PERMIT - NIH	05/22/20

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UKR15

Project Number

UKR15

DRAWING

LEVEL 01 PHASE 2
FITOUT - AREA 'B' -
LIGHTING PLAN

SHEET NO.

EL-151B

DATE

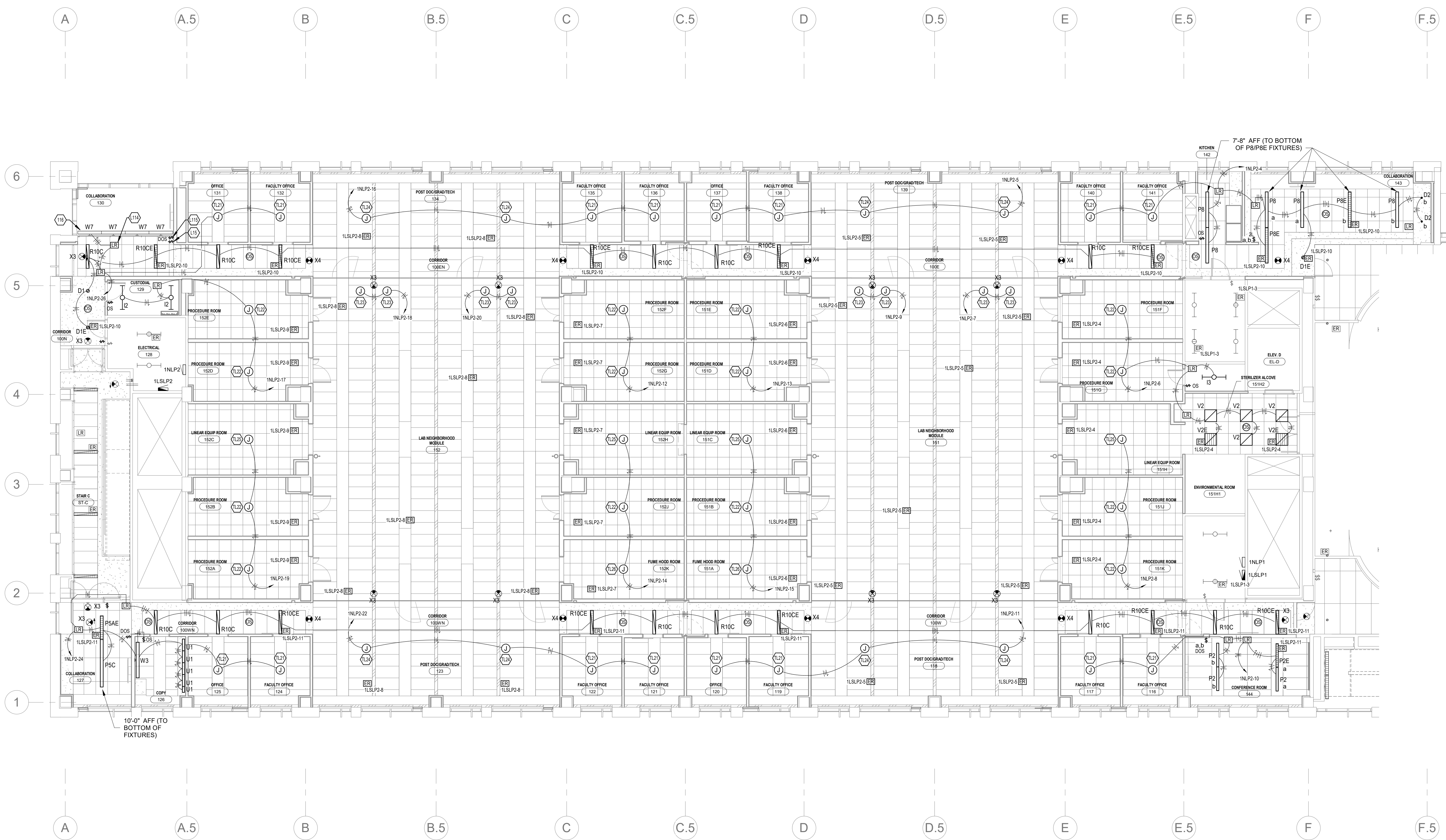
5/21/2020 3:07:46 PM

GENERAL LIGHTING NOTES

- FIXTURES TAGGED AS "NL" (NIGHT-LIGHT) ARE TO BE UNSWITCHED AND REMAIN ILLUMINATED CONTINUOUSLY.
- EXIT SIGNS ARE TO BE CIRCUITED USING NEAREST UNSWITCHED EMERGENCY CIRCUIT SERVING THE SPACE FIXTURE IS MOUNTED IN. CIRCUITS TO BE #12 WIRE, #12 GROUND IN 3/4" CONDUIT.
- CONTRACTOR SHALL FOLLOW CIRCUIT LAYOUT WITH THREE (3) BRANCH CIRCUITS MAXIMUM PER HOMERUN.
- IN SPACES WITH DIMMING CONTROL OR DAYLIGHT HARVESTING, CONTRACTOR IS TO RUN TWO DIMMING CONTROL WIRES TO DRIVER OF EACH FIXTURE TO BE DIMMED.
- ALL EMERGENCY FIXTURES THAT ARE TO BE DIMMED SHALL BE SERVED BY A ELCR-210 OR EQUIVALENT EMERGENCY RELAY TO RETURN FIXTURES TO FULL OUTPUT ON LOSS OF UTILITY POWER.
- A CIRCUIT NUMBER ACCOMPANYING A LIGHT FIXTURE OR RELAY INDICATES THE EMERGENCY CIRCUIT TO WHICH THE FIXTURE IS CONNECTED.
- EXTEND AN UNSWITCHED NORMAL SENSING CONDUCTOR TO ALL FIXTURES INDICATED TO BE EMERGENCY.
- COORDINATE ALL FIXTURE MOUNTING OPTIONS WITH CEILING SHOP DRAWINGS.
- COORDINATE STRIP LIGHTS WITH EQUIPMENT LOCATIONS TO PROVIDE EVEN ILLUMINATION AROUND AREAS REQUIRING ACCESS.
- IN BASEMENT CORRIDORS WITH NO CEILING PROVIDE UNISTRUT FRAMING TO MOUNT LIGHTING BELOW DUCTWORK WHERE CONFLICT EXISTS. MAINTAIN LIGHTS CENTERED IN CORRIDOR.
- ALL VIVARIUM DEVICE PLATES AND COVERS TO BE STAINLESS STEEL. THIS INCLUDES RESEARCH LAB, PROCEDURE ROOM, ISOLATION CUBICLE, ISOLATION PREP, AND VIVARIUM CORRIDORS.

TAGGED NOTES

- PROVIDE DUAL-GANG ROUGH-IN FOR SHADE CONTROL OVERRIDE SWITCH. EXTEND 1" CONDUIT TO SHADE CONTROLLER AND PROVIDE PULL STRING. COORDINATE LOCATION OF SHADE CONTROLLER.
- INTERCEPT WIRING OF EXISTING W7 AND P2 FIXTURES AND PROVIDE NEW LIGHTING RELAY. P2 FIXTURES LOCATED ON SECOND FLOOR.
- PROVIDE DIMMING OCCUPANCY SENSOR SWITCH FOR CONTROL OF EXISTING W7 AND P2 FIXTURES. P2 FIXTURES LOCATED ON SECOND FLOOR. PROVIDE PROGRAMMING TO ACHIEVE CONTROL SPECIFIED IN SEQUENCE OF OPERATION.
- REFER TO TYPICAL SMALL OFFICE LIGHTING PLAN ON EL-550.
- REFER TO TYPICAL PROCEDURE ROOM LIGHTING PLAN ON EL-550.
- REFER TO TYPICAL LAB NEIGHBORHOOD MODULE LIGHTING PLAN ON EL-550.
- REFER TO TYPICAL POST DOC/GRAD/TECH LIGHTING PLAN ON EL-550.
- REFER TO TYPICAL LINEAR EQUIP ROOM LIGHTING PLAN ON EL-550.
- REFER TO TYPICAL FUME HOOD ROOM LIGHTING PLAN ON EL-550.



1 LEVEL 01 PHASE 2 FITOUT - AREA 'B' - LIGHTING PLAN
1/8" = 1'-0"

KEY PLAN
NTS

ISSUANCES

No.	Description	Date
1	DD ISSUANCE - NIH	02/05/20
2	CD ISSUANCE - NIH	04/14/20
3	BID & PERMIT - NIH	05/22/20

Drawn By

CJC

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CJC

Client Number

Project Number UKR15

DRAWING

PHASE 2 TYPICAL LIGHTING PLANS

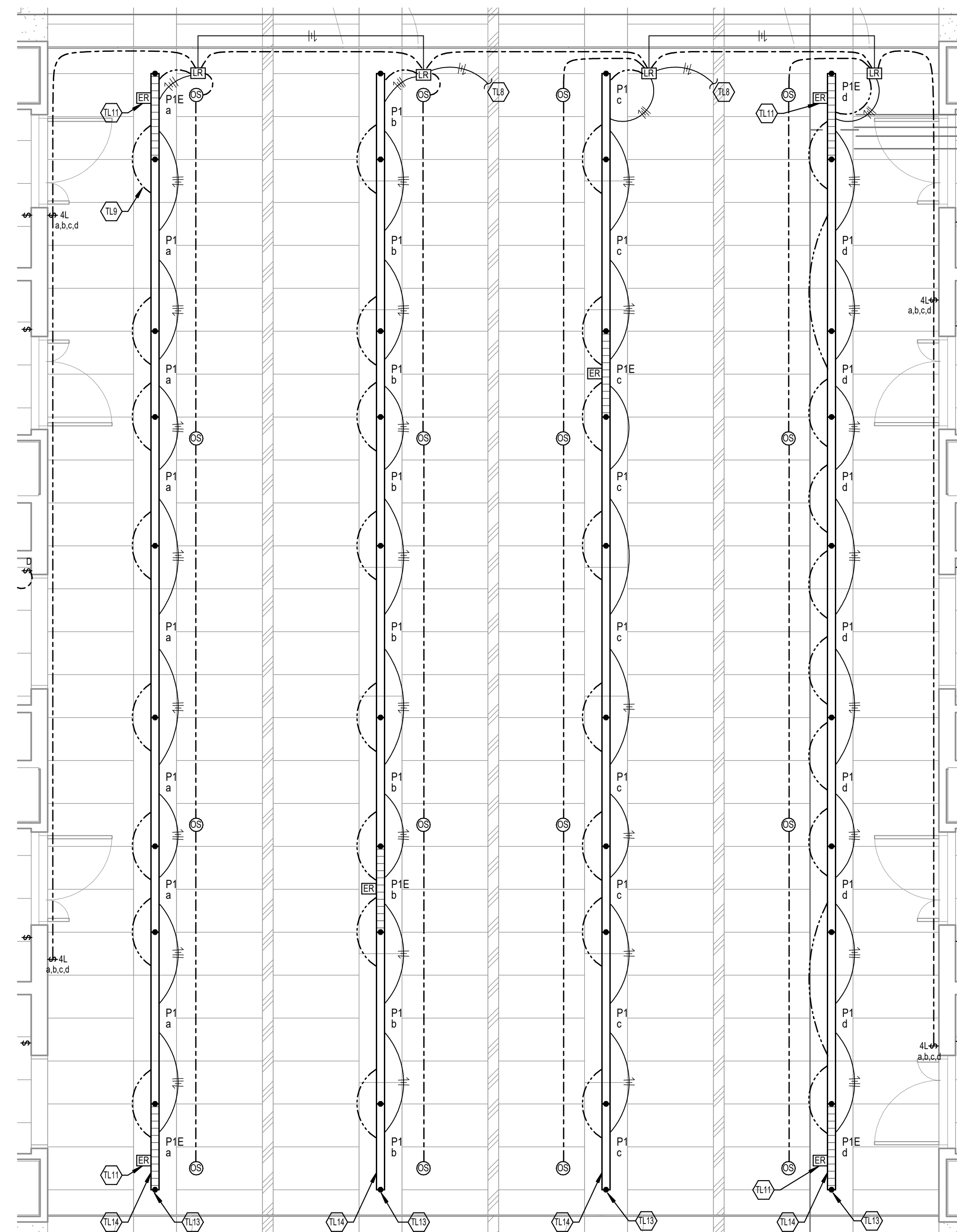
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EL-551

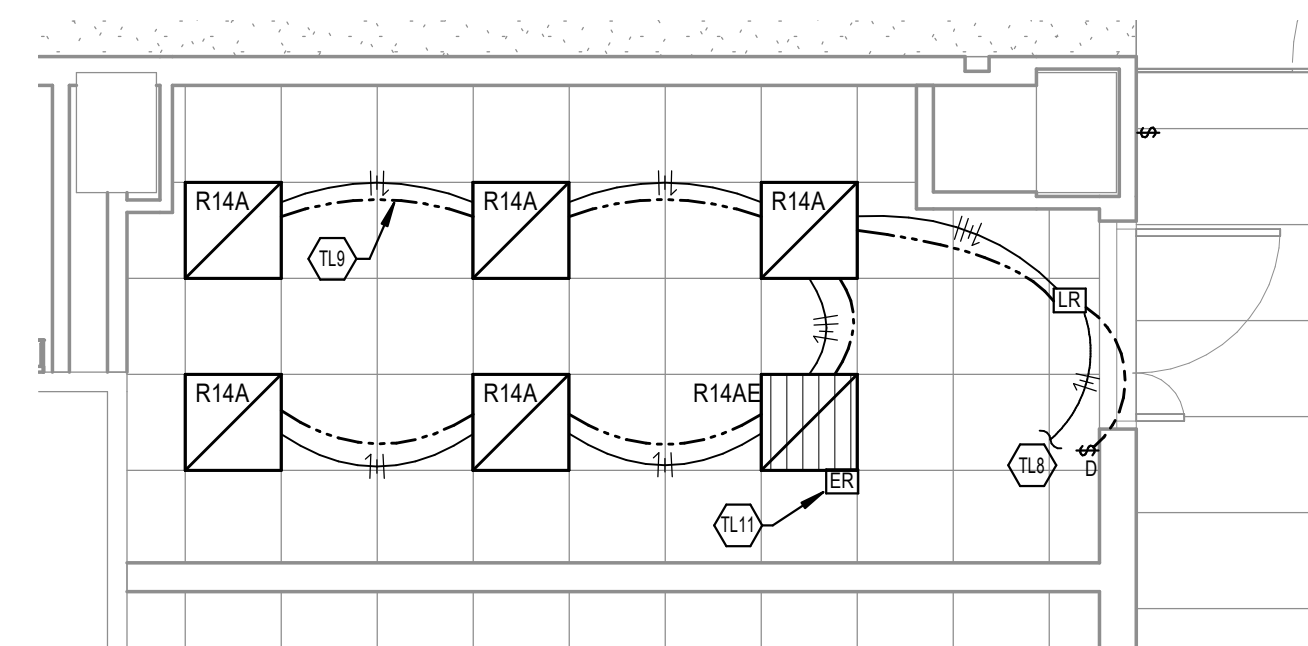
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GENERAL NOTES:
A. ALL VIVARIUM LIGHTING DEVICE PLATES AND COVERS TO BE MANUFACTURER PAINTED WHITE STAINLESS STEEL. THIS INCLUDES RESEARCH LAB, PROCEDURE ROOM, ISOLATION CUBICLE, ISOLATION PREP, AND VIVARIUM CORRIDORS, PHENOTYPING, CARCASS REFRIGERATION, NECROSCOPY, AND ICE STORAGE.

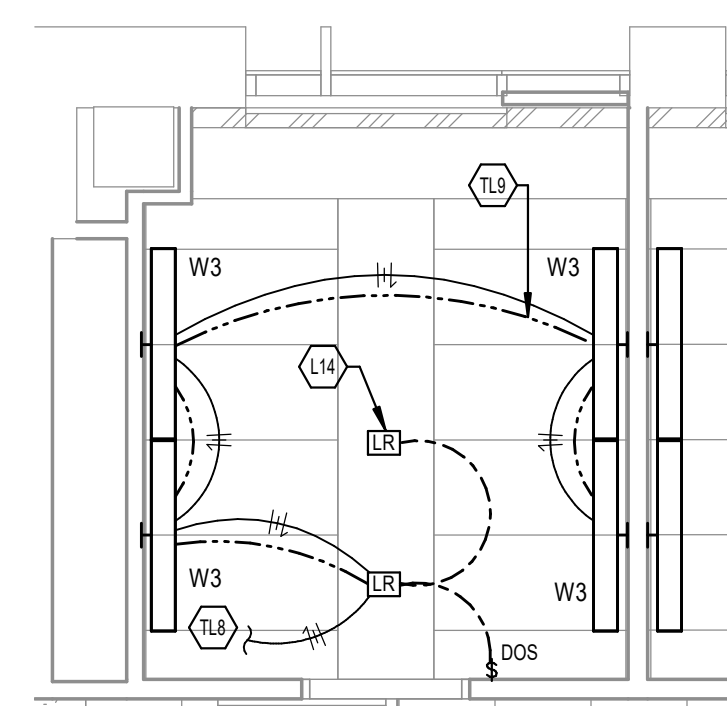
TAGGED NOTES	
L14	PROVIDE ADDITIONAL LIGHTING RELAY(S) FOR PLUG LOAD CONTROL. REFER TO POWER SHEETS FOR QUANTITY AND CIRCUIT TO BE CONTROLLED. INTEGRATE INTO LIGHTING CONTROL SYSTEM TO PROVIDE SCHEDULED SHUTOFF OF CIRCUIT.
TL8	CIRCUIT AS INDICATED ON LIGHTING PLANS.
TL9	PROVIDE 0-10V DIMMING WIRE TO ALL FIXTURE DRIVERS INDICATED TO BE DIMMABLE. ROUTE IN CONDUIT TO FIXTURES. (TYPICAL)
TL11	REFER TO LIGHTING PLANS FOR CIRCUITING OF EMERGENCY CIRCUITS. (TYPICAL)
TL13	PENDANT SUSPENSION CABLE LOCATIONS SHOWN ARE DIAGRAMMATIC. CONTRACTOR RESPONSIBLE FOR COORDINATING FIXTURE LENGTHS SUCH THAT SUSPENSION CABLES DO NOT CONFLICT WITH HVAC AND PLUMBING. SUBMIT COORDINATION DRAWINGS FOR LAB NEIGHBORHOOD MODULES WITH LIGHTING SHOP DRAWINGS TO SHOW COORDINATION BETWEEN ALL CEILING MOUNT DEVICES. (TYPICAL)
TL14	CENTER PENDANTS IN GYP STRIP. CAREFULLY COORDINATE LENGTHS OF PENDANTS SUCH THAT SUSPENSION CABLES DO NOT CONFLICT WITH HVAC GRILLES AND CHILLED BEAMS. REFER TO MECHANICAL SHEETS. (TYPICAL)
TL31	PROVIDE DAYLIGHT SENSOR INTEGRAL TO FIXTURE. SENSOR SHALL PROVIDE AUTOMATIC DIMMING CONTROL OF COMPLETE ZONE OF LIGHTING.



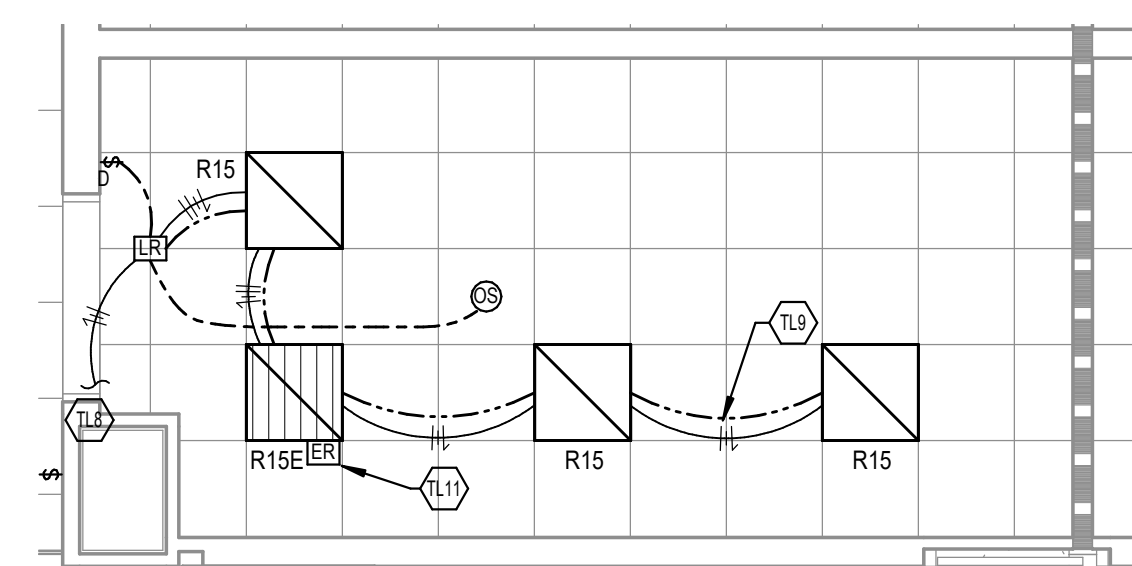
3 LEVEL 01 PHASE 2 - TYPICAL LAB NEIGHBORHOOD MODULE LIGHTING PLAN - NIH
1/4" = 1'-0"



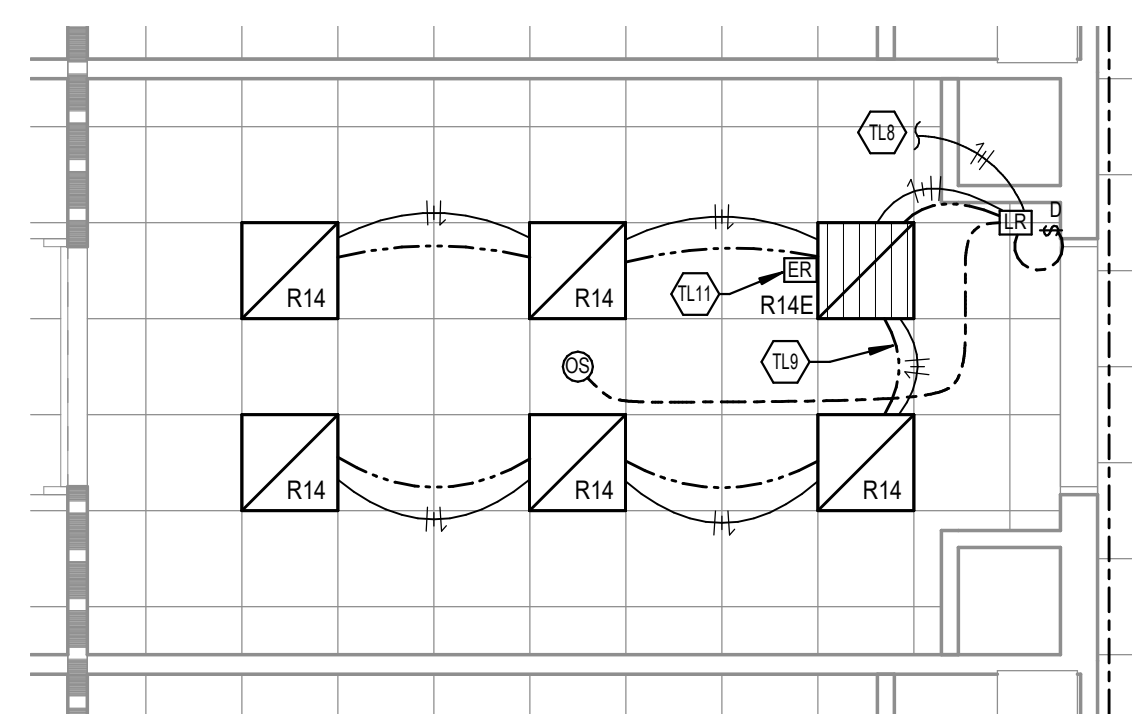
2 LEVEL 01 PHASE 2 - TYPICAL LAB PROCEDURE ROOM LIGHTING PLAN - NIH
1/4" = 1'-0"



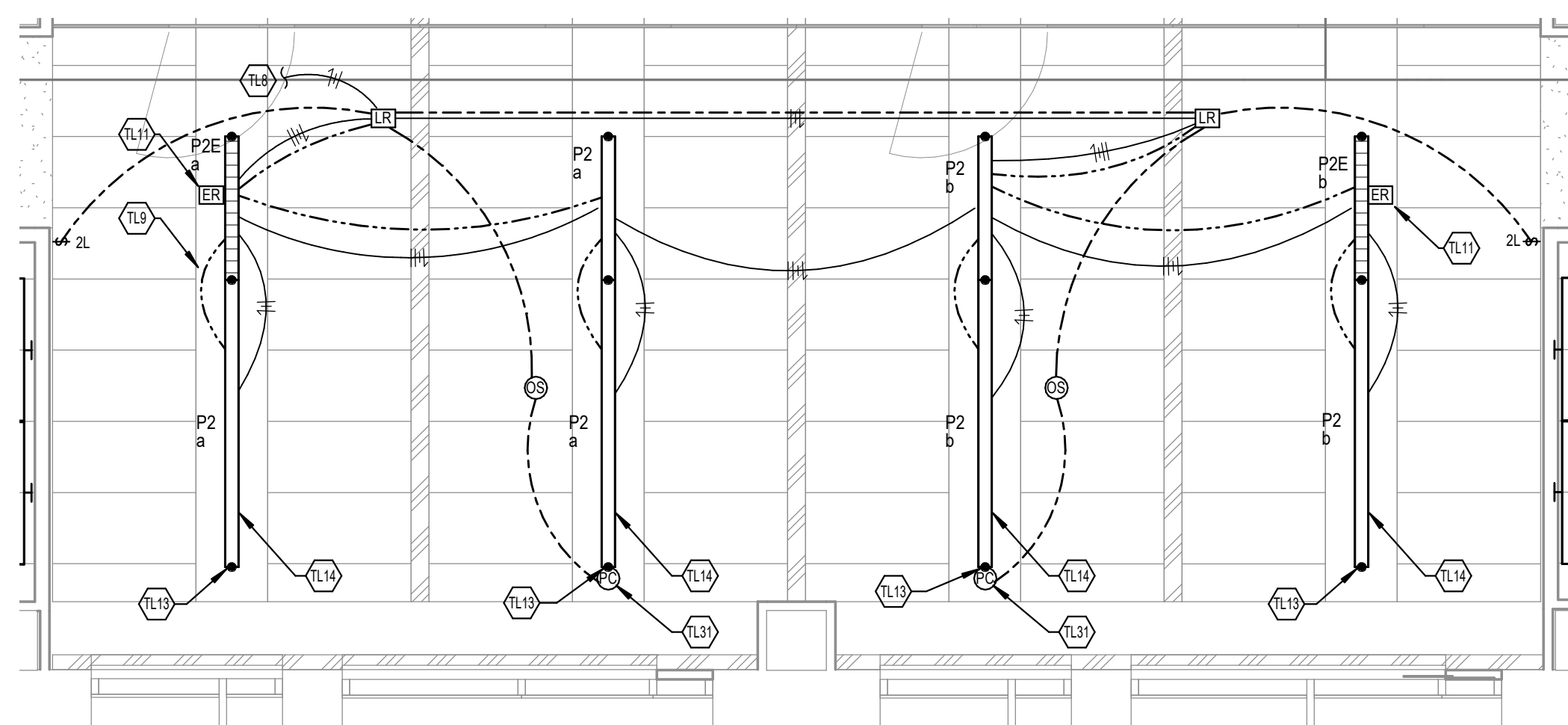
1 LEVEL 01 PHASE 2 - TYPICAL SMALL OFFICE LIGHTING PLAN - NIH
1/4" = 1'-0"



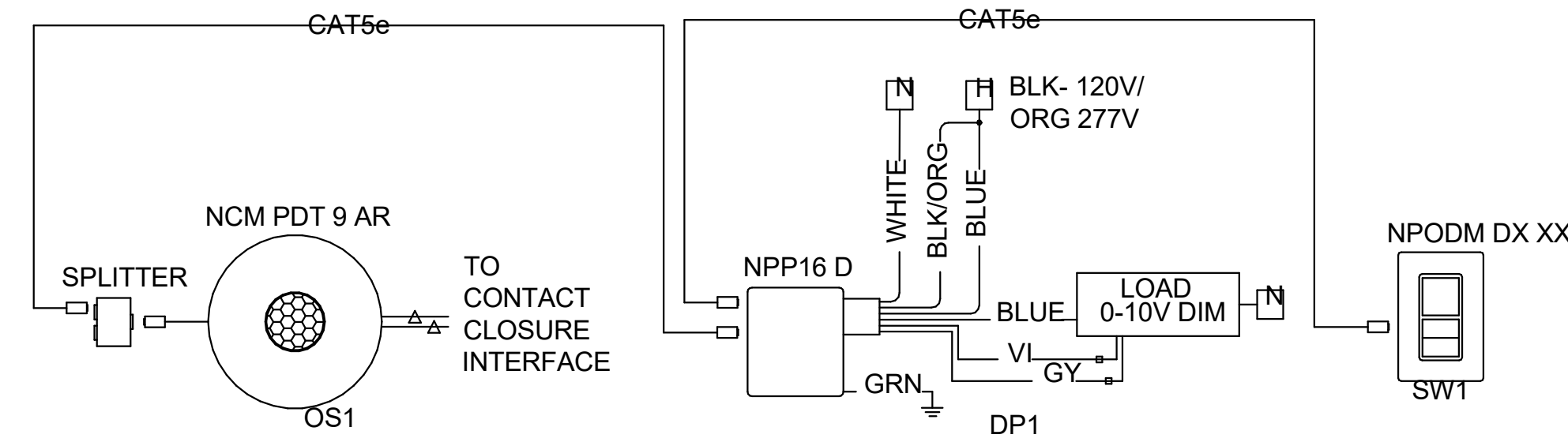
4 LEVEL 01 PHASE 2 - TYPICAL FUME HOOD ROOM LIGHTING PLAN - NIH
1/4" = 1'-0"



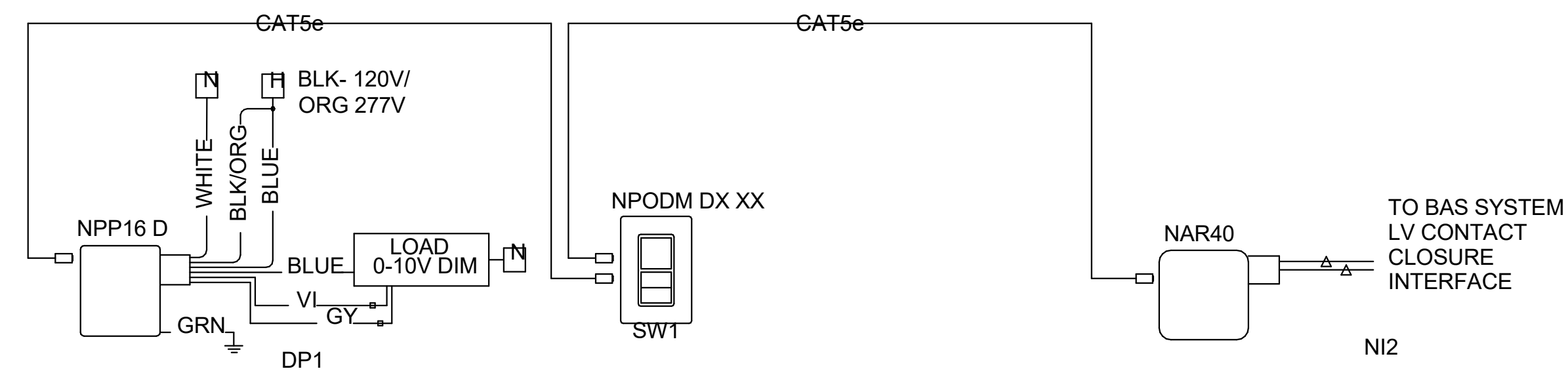
5 LEVEL 01 PHASE 2 - TYPICAL LINEAR EQUIP ROOM LIGHTING PLAN - NIH
1/4" = 1'-0"



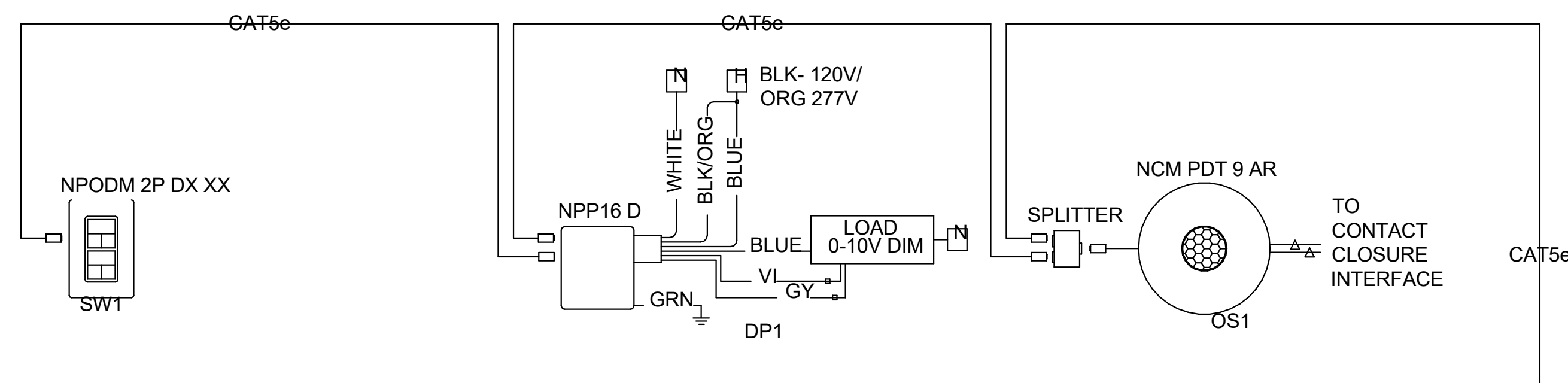
6 LEVEL 01 PHASE 2 - TYPICAL POST DOC/GRAD TECH LIGHTING PLAN - NIH
1/4" = 1'-0"



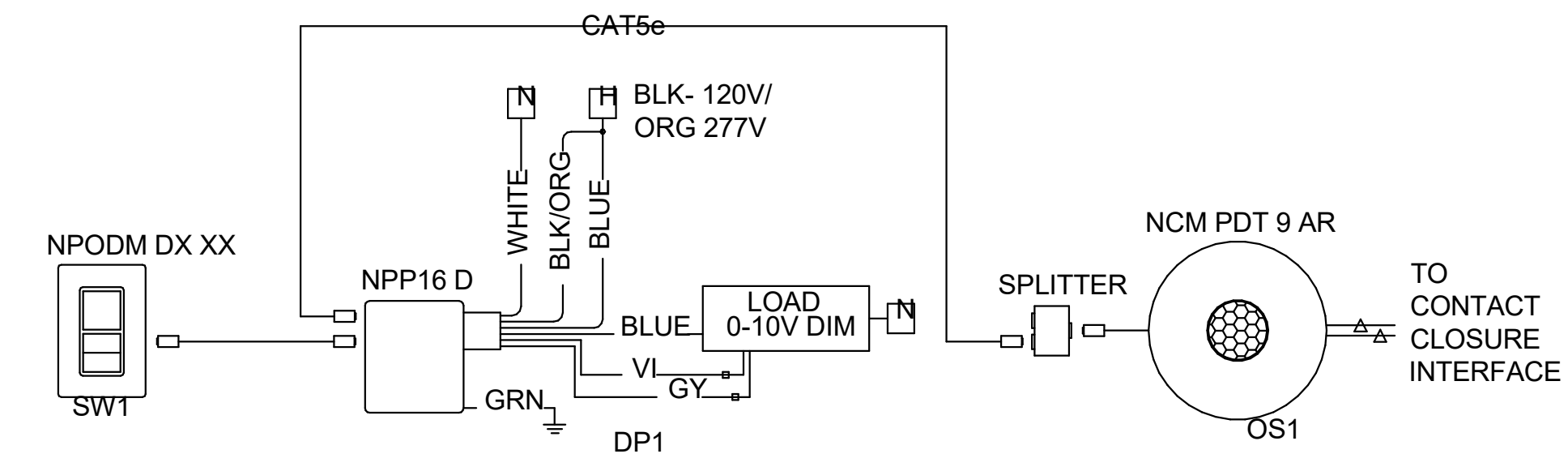
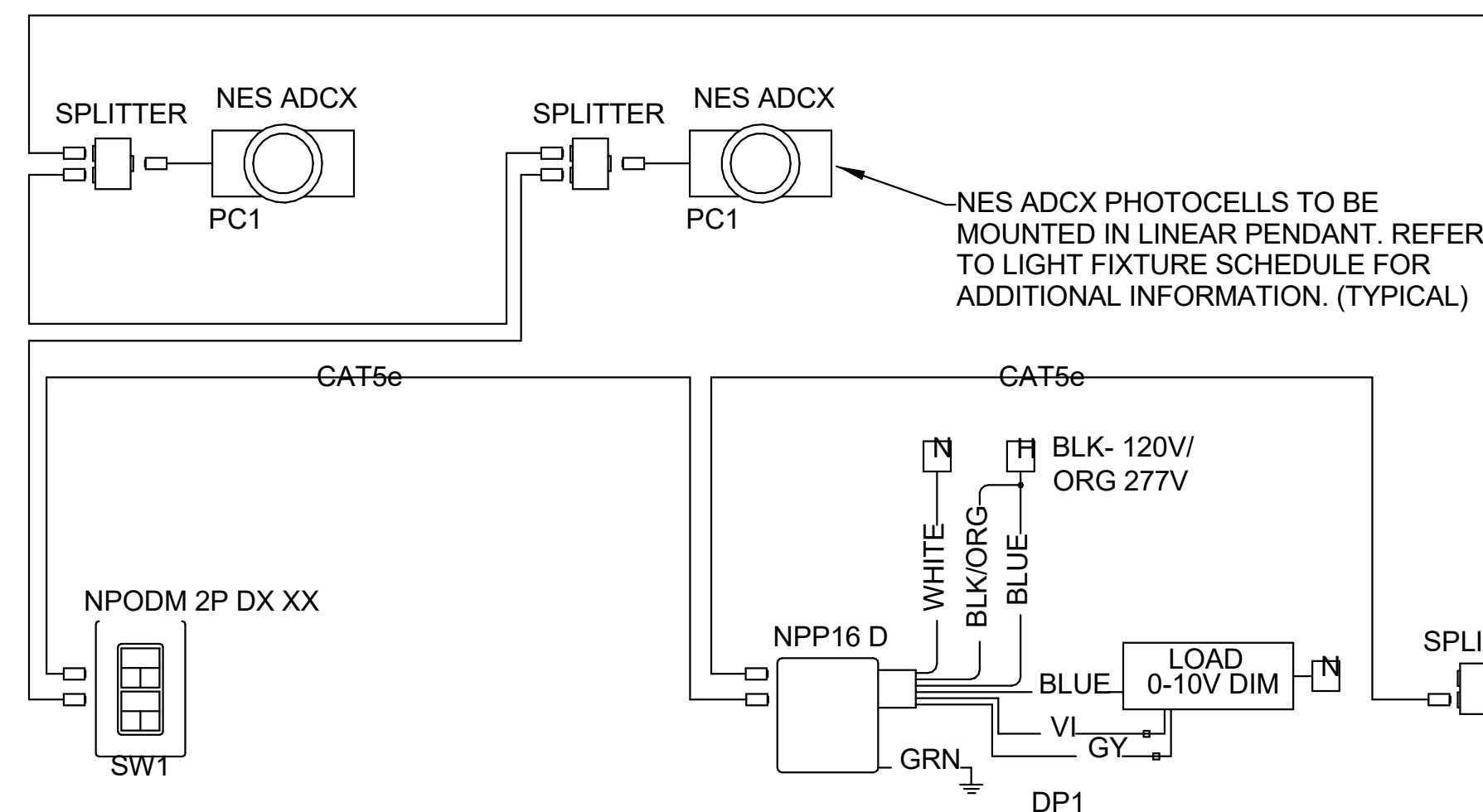
1 FUME HOOD ROOM - TYPICAL
NOT TO SCALE



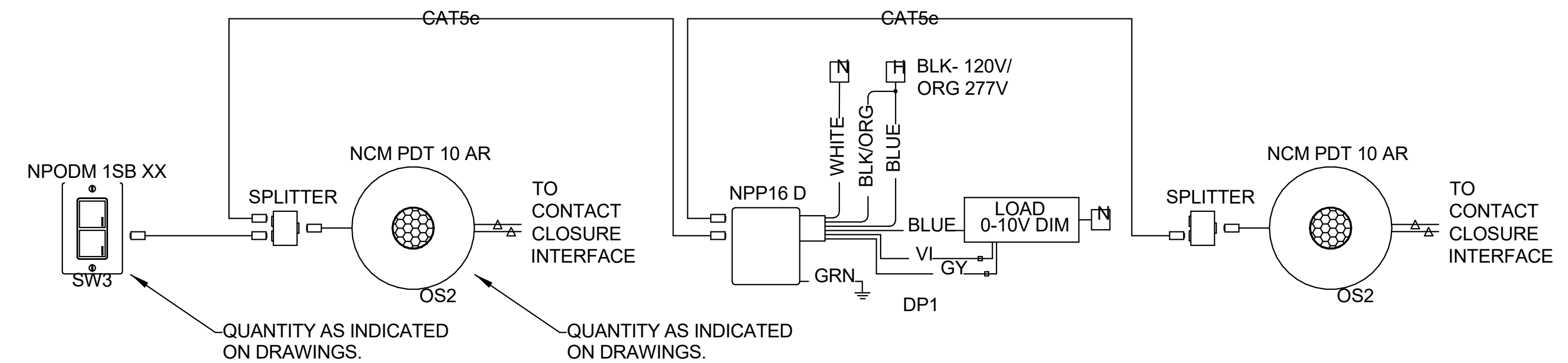
3 LAB PROCEDURE ROOM - TYPICAL
NOT TO SCALE



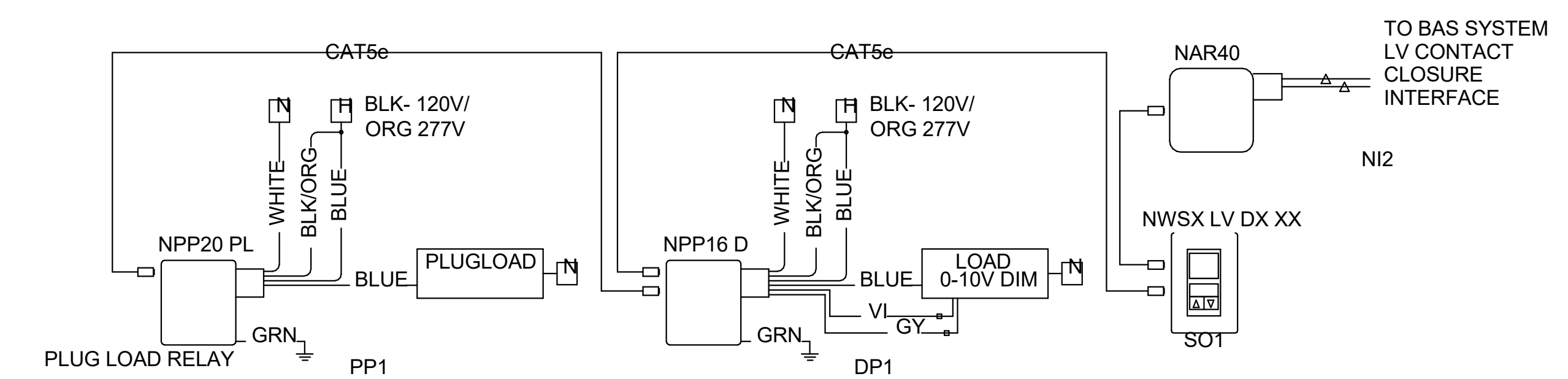
5 POST DOC/GRAD TECH - TYPICAL
NOT TO SCALE



2 LINEAR EQUIPMENT ROOM - TYPICAL
NOT TO SCALE



4 CORRIDOR - TYPICAL
NOT TO SCALE



6 SMALL OFFICE - TYPICAL
NOT TO SCALE

ISSUANCES

No.	Description	Date
1	DD ISSUANCE - NIH	02/05/20
2	CD ISSUANCE - NIH	04/14/20
3	BID & PERMIT - NIH	05/22/20

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Client Number

Project Number

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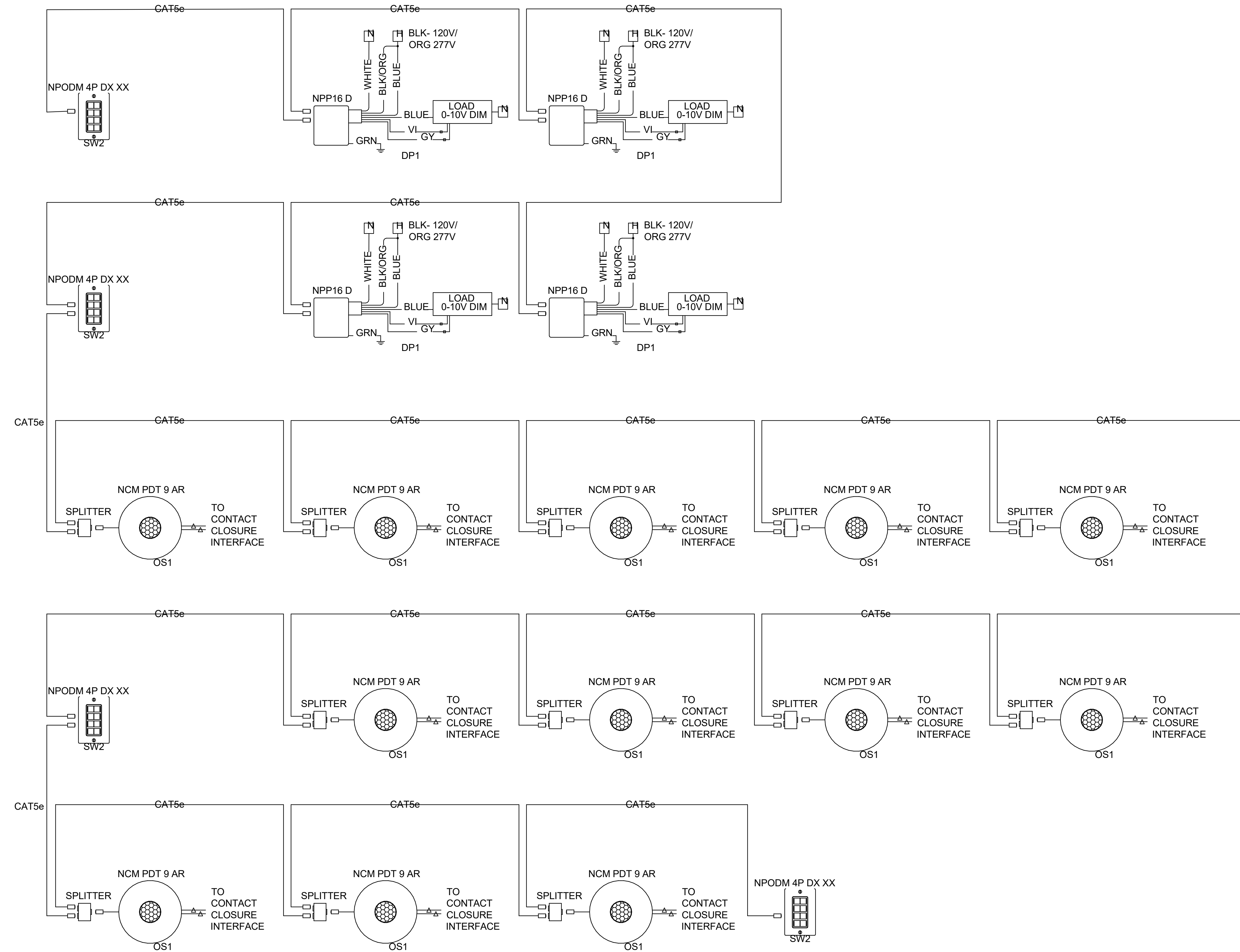
DRAWING

PHASE 2 NETWORK
LIGHTING CONTROL
RISER DIAGRAMS

SHEET NO.

EL-653





1 NEIGHBORHOOD LIGHTING MODULE - TYPICAL
NOT TO SCALE

ISSUANCES

No.	Description	Date
1	DD ISSUANCE - NIH	02/05/20
2	CD ISSUANCE - NIH	04/14/20
3	BID & PERMIT - NIH	05/22/20

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DRAWING

PHASE 2 NETWORK

LIGHTING CONTROL

RISER DIAGRAMS

SHEET NO.

EL-654

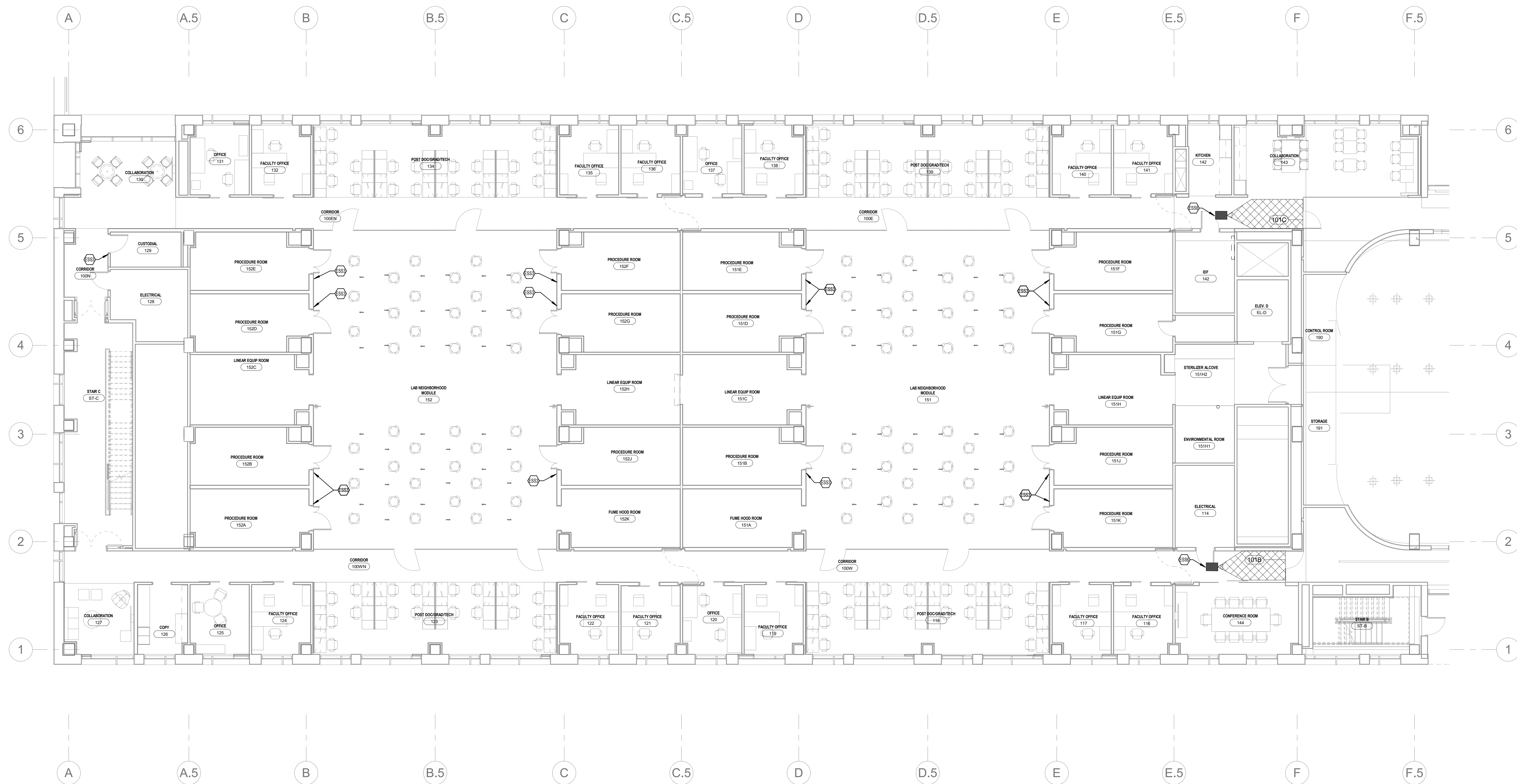


TAGGED NOTES
 ESS3 INSTALL ACCESS CONTROL AT THIS LOCATION. INCLUDE CARD READER, ELECTRIFIED HARDWARE WITH REX AND DOOR POSITION SWITCH.
 ESS6 INSTALL CEILING MOUNTED VIDEO CAMERA AT THIS LOCATION. CAMERA VIEW TO MATCH DRAWING. COORDINATE VIEW WITH OWNER BEFORE INSTALLATION AND AGAIN WHEN INSTALLED.



ISSUANCES

No.	Description	Date
1	DD ISSUANCE - NIH	02/05/20
2	CD ISSUANCE - NIH	04/14/20
3	BID & PERMIT - NIH	05/22/20



① ESS - LEVEL 01 PHASE 2 FITOUT - AREA "B"
 1/8" = 1'-0"

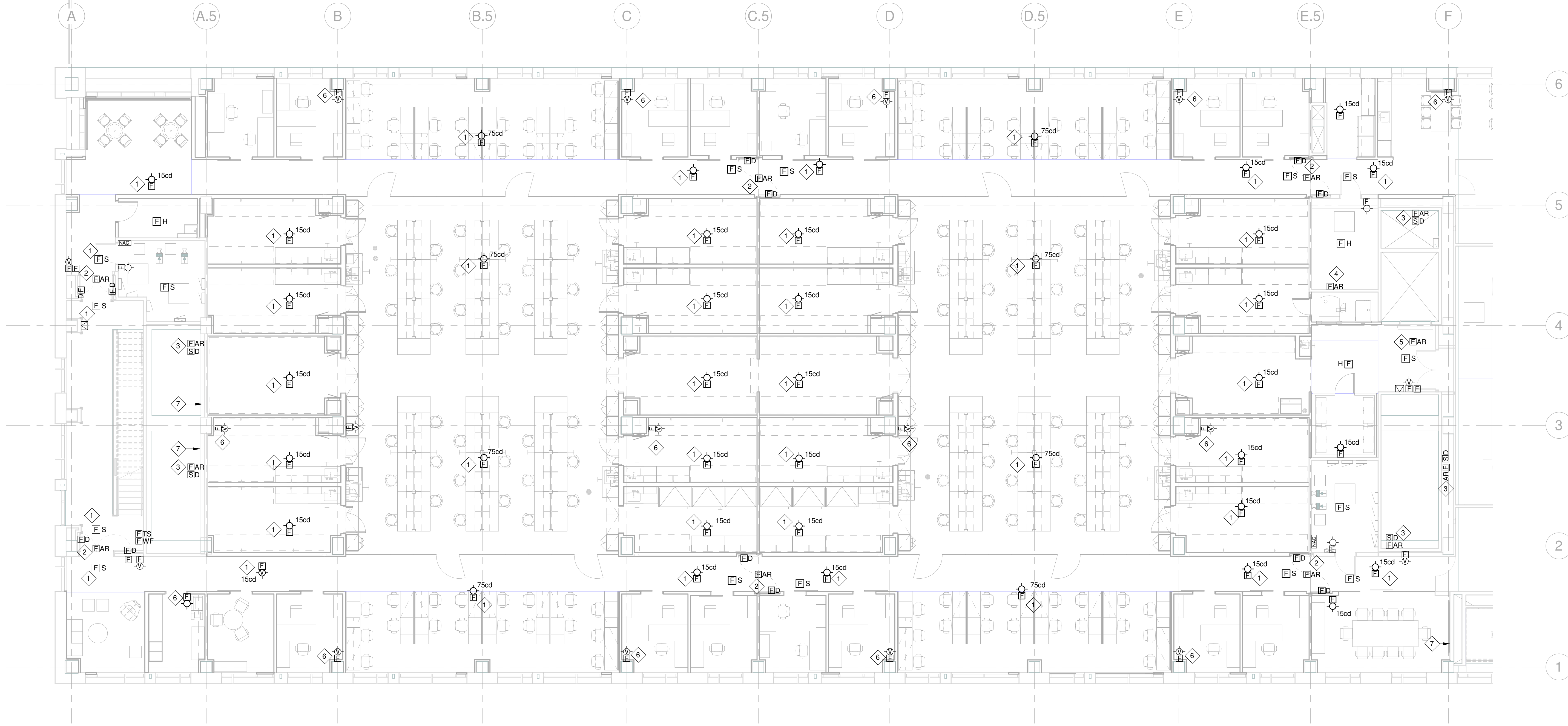
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 MT
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 WW
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 Project Number
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DRAWING

LEVEL 01 PHASE 2
 FITOUT AREA "B" - ESS

SHEET NO.
ES-151B



GENERAL NOTES

1. FIRE ALARM DRAWINGS ARE TO CONVEY DESIGN INTENT OF HOW THE BUILDING IS TO BE OPERATED. VARIATIONS IN MANUFACTURER'S SYSTEM COMPONENTS, LAYOUTS, AND PROGRAMMING REQUIRE THE MANUFACTURER TO DESIGN A SYSTEM SPECIFICALLY FOR THIS FACILITY BASED ON ITS SYSTEM'S PERFORMANCE.
2. ALL NECESSARY RELAYS MAY NOT BE SHOWN ON THIS PLAN. PROVIDE RELAYS WHERE REQUIRED FOR PROPER OPERATION OF THE SYSTEM.
3. FIRE ALARM VENDOR MUST PROVIDE A REMOTE INDICATOR DEVICE WITH FOR EACH HEAT AND/OR SMOKE DETECTOR THAT IS NOT VISIBLE FROM THE FLOOR. AND FOR EACH DUCT SMOKE DETECTOR DEVICE. REMOTE INDICATOR DEVICES ARE TO BE MOUNTED AT 48" AFF AS CLOSE TO DETECTOR AS POSSIBLE. VERIFY FINAL LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
4. PROVIDE FIRE ALARM CONNECTIONS TO FIRE/SMOKE DAMPERS AT LOCATIONS SHOWN ON THE MECHANICAL DRAWINGS AND AS SPECIFIED.
5. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF SUPPLY AND RETURN DUCTWORK REQUIRING DUCT SMOKE DETECTOR INSTALLATIONS.
6. ALL ALARM SEQUENCES FOR FIRE ALARM SYSTEM MUST BE COORDINATED AND VERIFIED WITH OWNER.
7. ALL FIRE WIRING MUST BE INSTALLED IN CONDUIT. PROVIDE EXPANSION FITTINGS TO ACCOMMODATE EXPANSION AND CONTRACTION WHERE CONDUITS CROSS BUILDING EXPANSION JOINTS.
8. SMOKE DETECTORS SHOWN ON PLAN ARE SPOT TYPE DETECTORS, UNLESS OTHERWISE NOTED.

KEYED NOTES

1. CEILING MOUNTED DEVICE.
2. PROVIDE ADDRESSABLE RELAY MODULE FOR DOOR HOLD OPEN.
3. PROVIDE ADDRESSABLE RELAY MODULE FOR EXISTING SMOKE DAMPER. REFER TO CORE & SHELL VENTILATION DRAWINGS FOR EXACT LOCATION.
4. PROVIDE ADDRESSABLE RELAY FOR SECURITY ACCESS PANELS.
5. PROVIDE ADDRESSABLE RELAY FOR ELEVATOR SMOKE CONTROL CURTAINS.
6. FIRE ALARM STROBE TO BE DEMOLISHED.
7. 2HR FIRE RATED WALL UTILIZE FIRE RATED PUTTY PADS ON THE BACK OF APPLICABLE BOXES.

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ISSUANCES

No.	Description	Date
1	DD ISSUANCE - NH	02/05/20
2	CD ISSUANCE - NH	04/14/20
3	BID & PERMIT - NH	05/22/20

Drawn By
EM

Checked By
JS

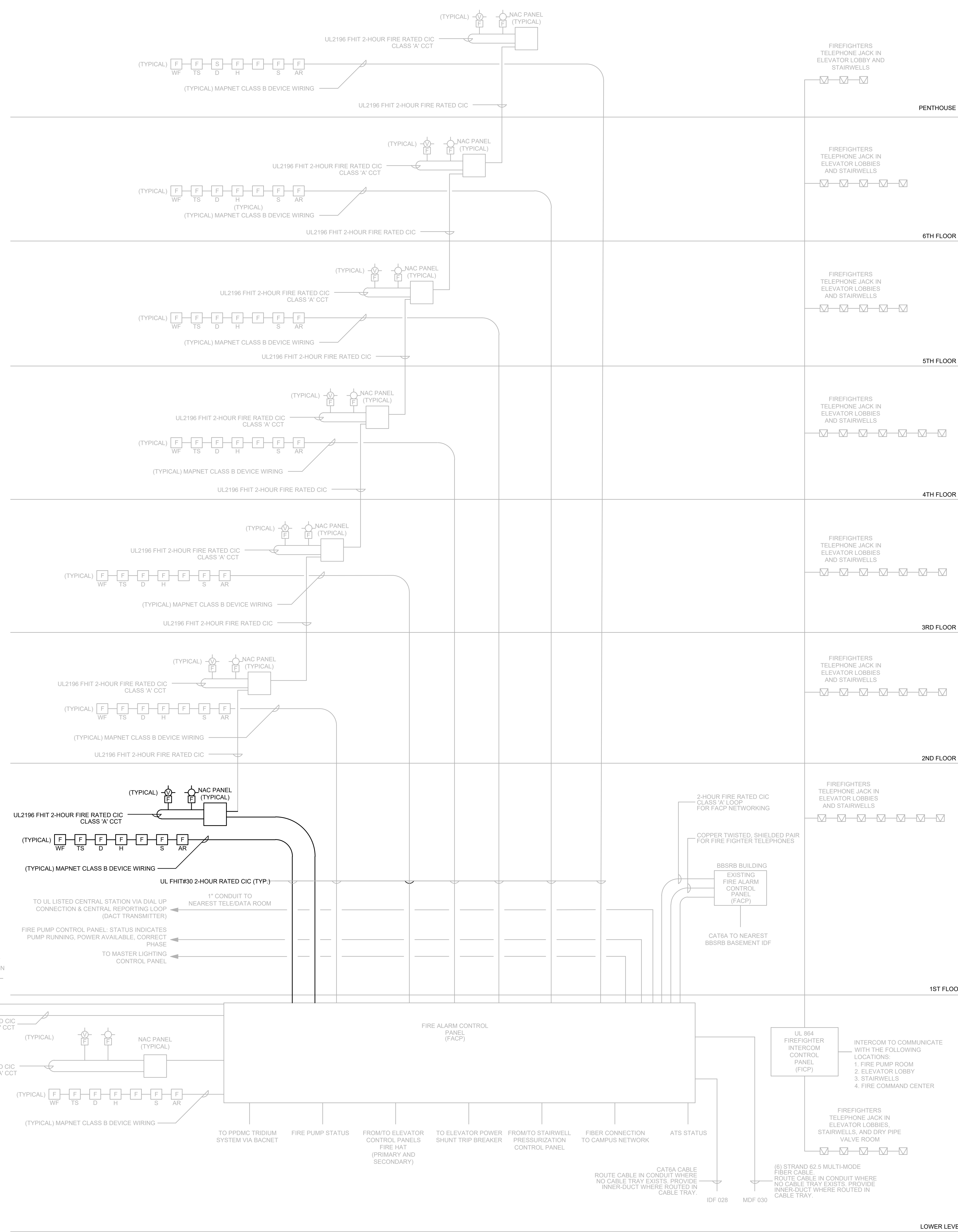
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514

Project Number
15576

DRAWING

FIRE ALARM PHASE 2
FO FLOOR PLAN -
LEVEL 01 AREA B

SHEET NO.
FAF-251B



GENERAL FIRE ALARM RISER NOTES

1. THE FIRE ALARM RISER DIAGRAM IS INTENDED TO CONVEY THE TYPES OF FIRE ALARM CONNECTIONS AND SPECIFICALLY DOES NOT INDICATE QUANTITIES, NUMBER OF CIRCUITS REQUIRED OR DISTANCES.
2. THE COMPLETE FIRE ALARM SYSTEM SHALL MEET ALL APPLICABLE CODES, FIRE MARSHALL REQUIREMENTS, AND MANUFACTURER'S RECOMMENDATIONS.
3. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL WIRE SIZES, TYPES AND REQUIREMENTS WITH FIRE ALARM SYSTEM VENDOR PRIOR TO BID.
4. ALL 120V WIRING REQUIRED FOR OPERATION OF THE SYSTEM AS DESCRIBED IN THE CONSTRUCTION DOCUMENTS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR FROM THE LIFE SAFETY DISTRIBUTION SYSTEM.
5. ALL NECESSARY RELAYS MAY NOT BE SHOWN ON THIS PLAN, BUT WHERE REQUIRED FOR PROPER OPERATION OF THE SYSTEM, THEY SHALL BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
6. PROVIDE 25% SPARE BATTERY CAPACITY IN FIRE ALARM CONTROL PANEL.
7. ALL FIRE ALARM WIRING SHALL BE INSTALLED IN CONDUIT.
8. IN ADDITION TO WORK SHOWN ON E AND FA-SERIES DRAWINGS, MAKE CONNECTIONS TO FIRE/SMOKE DAMPERS, DUCT SMOKE DETECTORS, AND CONTROL RELAYS AT LOCATIONS SHOWN ON THE M-SERIES DRAWINGS AND AS SPECIFIED. PROVIDE ONE ADDRESSABLE RELAY PER FIRE/SMOKE DAMPER INDICATED. EACH RELAY SHALL CONTROL ONLY ONE DAMPER. ELECTRICAL CONTRACTOR SHALL PROVIDE 120V CIRCUIT AS SHOWN ON DRAWINGS.
9. PROVIDE NOTIFICATION APPLIANCE EXTENDER PANELS AS REQUIRED.
10. HEAT DETECTORS ARE TO BE RATED 135 DEGREES F.
11. WHERE SHOWN ADJACENT, HEAT DETECTORS AND SMOKE DETECTORS ARE TO BE MOUNTED NO FURTHER THAN 6" FROM EACH OTHER AND 24" FROM THE SPRINKLER HEAD COVERING THAT SPACE.
12. PROVIDE LIGHTNING ARRESTORS FOR ALL EXTERIOR MOUNTED FIRE ALARM DEVICES.
13. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING THE REQUIRED INTERFACE TO ALLOW THE NEW FIRE ALARM SYSTEM TO COMMUNICATE WITH EXISTING BBSRB SIMPLEX FIRE ALARM SYSTEM. ELECTRICAL CONTRACTOR SHALL BE REQUIRED TO PROVIDE THE WORK REQUIRED TO PROGRAM THE EXISTING SIMPLEX FIRE ALARM SYSTEM TO PROVIDE ANNUNCIATION AT THE NEW FIRE ALARM SYSTEM AND FOR REPORTING TO THE CAMPUS CENTRAL STATION.
14. FIRE ALARM VENDOR SHALL PROVIDE A REMOTE INDICATOR DEVICE WITH EACH DUCT SMOKE DETECTOR DEVICE AND FOR EACH HEAT AND SMOKE DETECTOR THAT IS NOT VISIBLE FROM THE FLOOR. REMOTE INDICATOR DEVICES SHALL BE MOUNTED AT 46" AFF AS CLOSE TO DETECTOR AS POSSIBLE. VERIFY FINAL LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
15. ALL ALARM SEQUENCES FOR FIRE ALARM SYSTEM SHALL BE COORDINATED AND VERIFIED WITH OWNER.
16. ALL CIRCUITS NECESSARY FOR THE OPERATION OF THE NOTIFICATION APPLIANCES SHALL BE PROTECTED UNTIL THEY ENTER THE EVACUATION SIGNALING ZONE THAT THEY SERVE. PROVIDE 2-HOUR CONCRETE ENCASUREMENT FOR NOTIFICATION CIRCUIT WIRING WHERE A 2-HOUR ENCLOSURE IS NOT AVAILABLE FOR CIRCUIT PROTECTION. COORDINATE ALL 2-HOUR CONCRETE ENCASUREMENT WITH STRUCTURAL ENGINEER PRIOR TO INSTALLATION.
17. FIRE ALARM DEVICES INSTALLED UNDER THIS SCOPE OF WORK SHALL REPORT VIA BACNET TO THE OWNER TRIDIUM SYSTEM. ALL REQUIRED PROGRAMMING AND ADDITIONAL EQUIPMENT NEEDED TO PERFORM THESE TASKS SHALL BE INCLUDED UNDER THIS SCOPE OF WORK.
18. FIRE ALARM CONTRACTOR SHALL COORDINATE AND PROVIDE CAT6A AND FIBER OPTIC CONNECTIONS ASSOCIATED WITH FIRE ALARM SYSTEM.

LINE TYPE LEGEND:

EXISTING:	_____
NEW:	_____



UK Project Number 2538.0

ISSUANCES

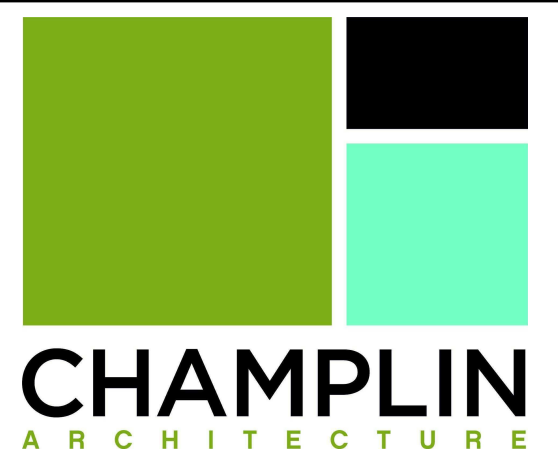
No.	Description	Date
1	PHASE 2 DD 100%	08/15/2018
2	100% CD REVIEW	10/15/18
3	ISSUE FOR BID & PERMIT	11/15/18
4	DD ISSUANCE - NH	02/05/2020
5	CD ISSUANCE - NH	04/14/2020
7	BD & PERMIT - NH	05/22/2020

Drawn By	EM
Checked By	JS
Client Number	514
Project Number	5350

DRAWING
TITLE
FIRE ALARM PHASE 2
FO RISER

SHEET NO.
FAF-950

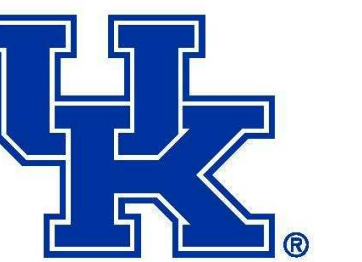
02/05/2020 10:00:00 AM



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RESEARCH BUILDING**
(FIT-UP TWO WET LABS)

UK Project Number 2538.0

ISSUANCES

No.	Description	Date
1	PHASE 2 CD 102%	08/15/2018
2	100% CD REVIEW	10/15/18
3	ISSUED FOR BID & PERMIT	11/15/18
4	DD ISSUANCE - NIH	02/05/20
5	CD ISSUANCE - NIH	04/14/20
6	BID & PERMIT - NIH	09/22/20

		Control Unit Annunciation												Notification												Required for Fire Safety Control															
System Inputs		Number Identifier		System Outputs												Notification												Required for Fire Safety Control												Number Identifier	
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	X	Y	Z															
Manual Pull Station	1	X	X													X	X										1	1													
Smoke Detector General	2	X	X									X	X			X	X										2	2													
Smoke Detector in Elevator Lobby	3	X	X						X	X	X	X	X			X	X										3	3													
Smoke Detector in Elevator Lobby	4	X	X						X	X	X	X	X			X	X										4	4													
Smoke Detector Elev. Lobby Primary Floor	5	X	X						X	X	X	X	X			X	X										5	5													
Smoke Detector Elev. Lobby All other Floors	6	X	X						X	X	X	X	X			X	X				X						6	6													
Smoke Detector in Elev. Machine Room	7	X	X						X	X	X	X	X			X	X										7	7													
Smoke Detector in Hallway	8	X	X						X	X	X	X	X			X	X					X					8	8													
Smoke Detector Outside Stairwell (High rise Only)	9	X	X						X	X	X	X	X			X	X										9	9													
Smoke Detector in Shell Space	10	X	X						X	X	X	X	X			X	X										10	10													
Heat Detector General	11	X	X						X	X	X	X	X			X	X										11	11													
Heat Detector in Elev. Machine Room	12	X	X						X	X	X	X	X			X	X										12	12													
Heat Detector in Hallway	13	X	X						X	X	X	X	X			X	X			X							13	13													
Heat Detector in Hallway	14	X	X						X	X	X	X	X			X	X			X							14	14													
Smoke Detector in Hallway	15	X	X						X	X	X	X	X			X	X			X							15	15													
Duct Mounted Smoke Detectors At Fire/Smoke Changers	16	X	X						X	X	X	X	X			X	X							X			16	16													
AHURF Duct Mounted Smoke Detector	17	X	X						X	X	X	X	X			X	X							X			17	17													
Fire Alarm Control Panel	18	X	X						X	X	X	X	X			X	X										18	18													
Fire Alarm Control Panel	19	X	X						X	X	X	X	X			X	X										19	19													
Fire Alarm Control Panel	20	X	X						X	X	X	X	X			X	X										20	20													
Fire Alarm Control Panel	21	X	X						X	X	X	X	X			X	X										21	21													
Fire Alarm Control Panel	22	X	X						X	X	X	X	X			X	X										22	22													
Fire Alarm Control Panel	23	X	X						X	X	X	X	X			X	X										23	23													
Fire Alarm Control Panel	24	X	X						X	X	X	X	X			X	X										24	24													
Fire Alarm Control Panel	25	X	X						X	X	X	X	X			X	X										25	25													
Fire Alarm Control Panel	26	X	X						X	X	X	X	X			X	X										26	26													
Fire Alarm Control Panel	27	X	X						X	X	X	X	X			X	X										27	27													
Fire Alarm Control Panel	28	X	X						X	X	X	X	X			X	X										28	28													
Fire Alarm Control Panel	29	X	X						X	X	X	X	X			X	X										29	29													
Fire Alarm Control Panel	30	X	X						X	X	X	X	X			X	X										30	30													
Fire Alarm Control Panel	31	X	X						X	X	X	X	X			X	X										31	31													
Fire Alarm Control Panel	32	X	X						X	X	X	X	X			X	X										32	32													
Fire Alarm Control Panel	33	X	X						X	X	X	X	X			X	X										33	33													
Fire Alarm Control Panel	34	X	X						X	X	X	X	X			X	X										34	34													
Fire Alarm Control Panel	35	X	X						X	X	X	X	X			X	X										35	35													
Fire Alarm Control Panel	36	X	X						X	X	X	X	X			X	X										36	36													
Fire Alarm Control Panel	37	X	X						X	X	X	X	X			X	X										37	37													
Fire Alarm Control Panel	38	X	X						X	X	X	X	X			X	X										38	38													
Fire Alarm Control Panel	39	X	X						X	X	X	X	X			X	X										39	39													
Fire Alarm Control Panel	40	X	X						X	X	X	X	X			X	X										40	40													
Fire Alarm Control Panel	41	X	X						X	X	X	X	X			X	X										41	41													

Drawn By

EM

Checked By

JS

Client

Number

514

Project

Number

15576

DRAWING

FIRE ALARM PHASE 2

FO MATRIX

SHEET NO.

FAF-951

Drawn By

EM

Checked By

JS

Client

Number

514

Project

Number

15576

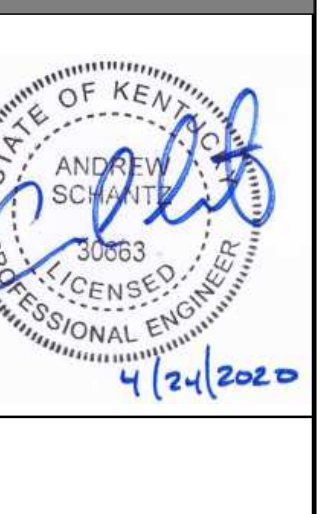
DRAWING

FIRE ALARM PHASE 2

FO MATRIX

SHEET NO.

FAF-951

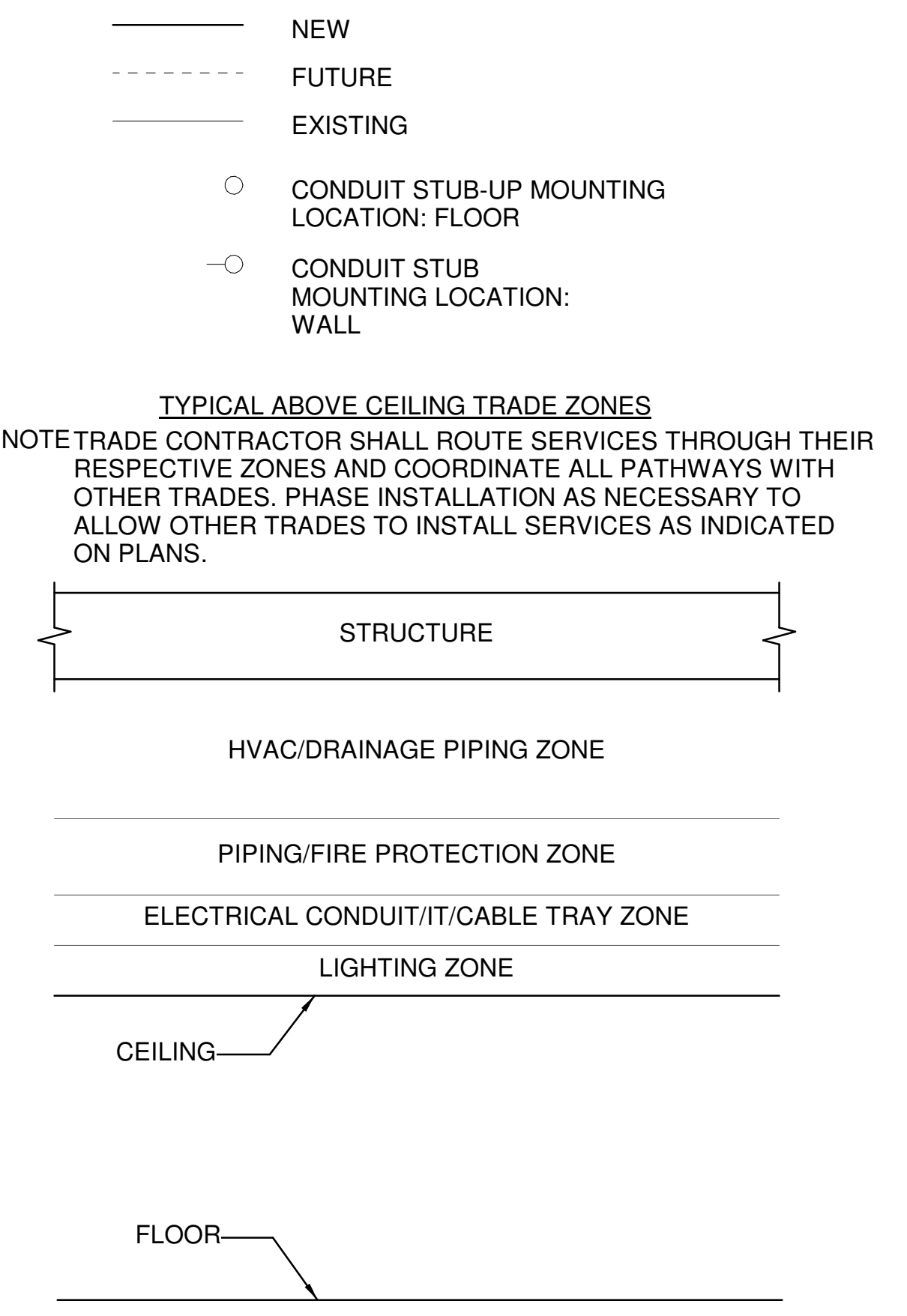
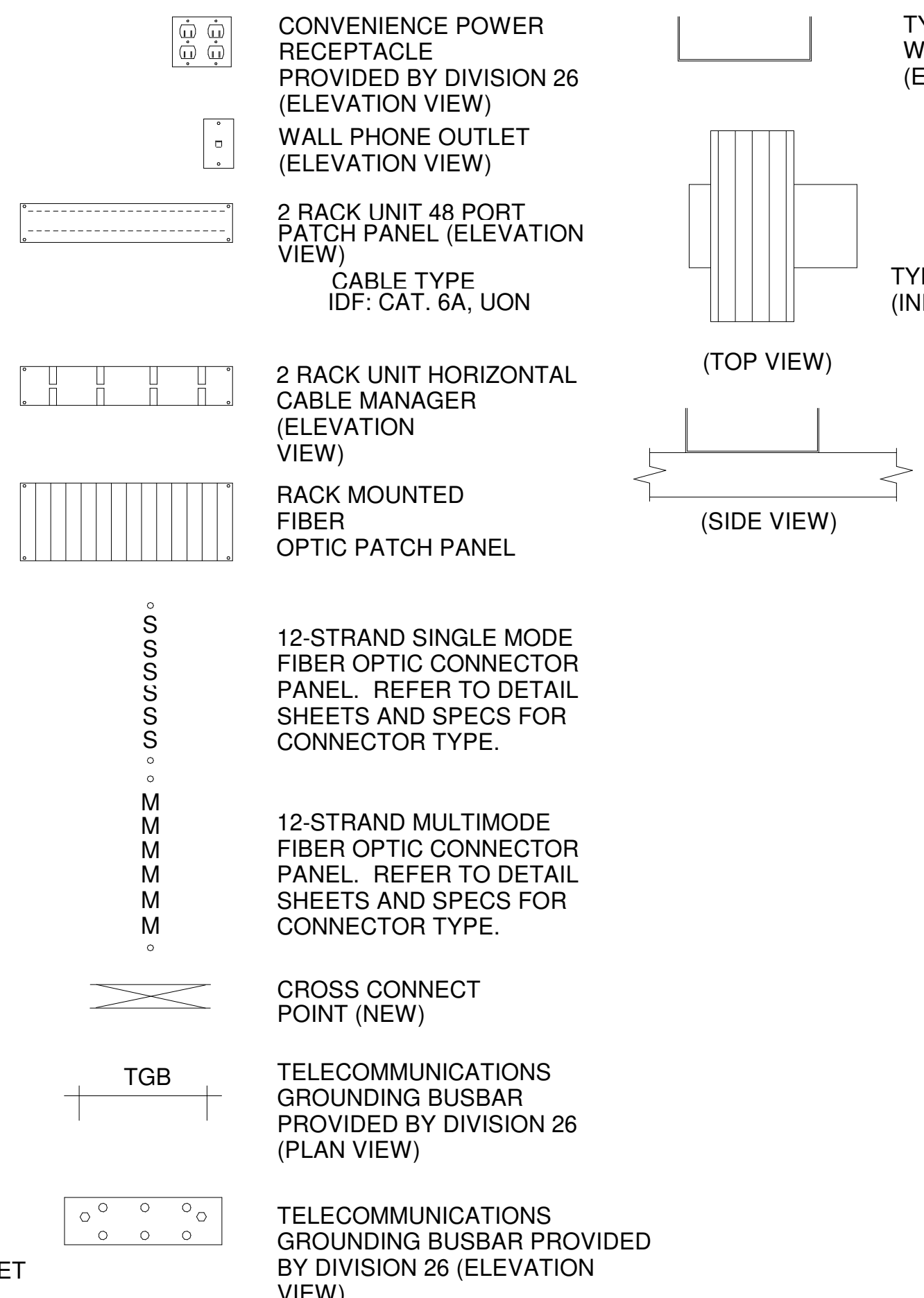


TECHNOLOGY SYMBOLS AND ABBREVIATIONS

NOTE: SYMBOLS AND ABBREVIATIONS INDICATED HERE AND NOT USED IN THE CONTRACT DOCUMENTS DO NOT APPLY TO THIS PROJECT. ADDITIONAL SYMBOLS MAY BE INDICATED IN THE CONTRACT DOCUMENTS. ALL MEASUREMENTS FROM AFF ARE TO THE CENTER OF OUTLET.

INFORMATION TECHNOLOGY

- W WALL TELEPHONE OUTLETS
MOUNTING LOCATION: FLUSH WALL
MOUNTING HEIGHT: 4'-0" AFF UON
CONFIGURATION: REFER TO CHART BELOW
X WORKSTATION OUTLETS
CONFIGURATION: X-REFER TO CHART BELOW
MOUNTING LOCATION: FLUSH WALL
MOUNTING HEIGHT: 1'-6" AFF
X WORKSTATION OUTLETS
CONFIGURATION: X-REFER TO CHART BELOW
MOUNTING LOCATION: CASEWORK OR ABOVE BACKSPLASH
MOUNTING HEIGHT: FIELD VERIFY
X WORKSTATION OUTLETS - CEILING MOUNTED
CONFIGURATION: X-REFER TO CHART BELOW
MOUNTING LOCATION: ABOVE CEILING/STRUCTURE
MOUNTING HEIGHT: FIELD VERIFY
X WORKSTATION OUTLETS
CONFIGURATION: X-REFER TO CHART BELOW
MOUNTING LOCATION: RACEWAY
MOUNTING HEIGHT: MATCH ELECTRICAL
X WORKSTATION OUTLETS - FLOOR BOX/POKE-THRU
CONFIGURATION: X-REFER TO CHART BELOW
MOUNTING LOCATION: FLUSH FLOOR
MOUNTING HEIGHT: F/FF
IC INTERCOM OUTLETS - WALL MOUNTED
CONFIGURATION: REFER TO CHART BELOW
MOUNTING LOCATION: FLUSH WALL
MOUNTING HEIGHT: FIELD VERIFY
E EMERGENCY TELEPHONE/CAMERA EXTERIOR COLUMN/STANCHION
CONFIGURATION: 2 CAT 6 PE JACKETED & 1 RG-6 CCTV PE JACKETED
MOUNTING LOCATION: EXTERIOR COLUMN
MOUNTING HEIGHT: AS SPECIFIED
X EXISTING TO REMAIN WALL OUTLET
X EXISTING TO ABOVE COUNTER OUTLET
X EXISTING TO REMAIN CEILING MOUNTED WORKSTATION OUTLET
X EXISTING TO RACEWAY OUTLET
X EXISTING TO REMAIN - FLOOR BOX/POKE-THRU/FLOOR OUTLET

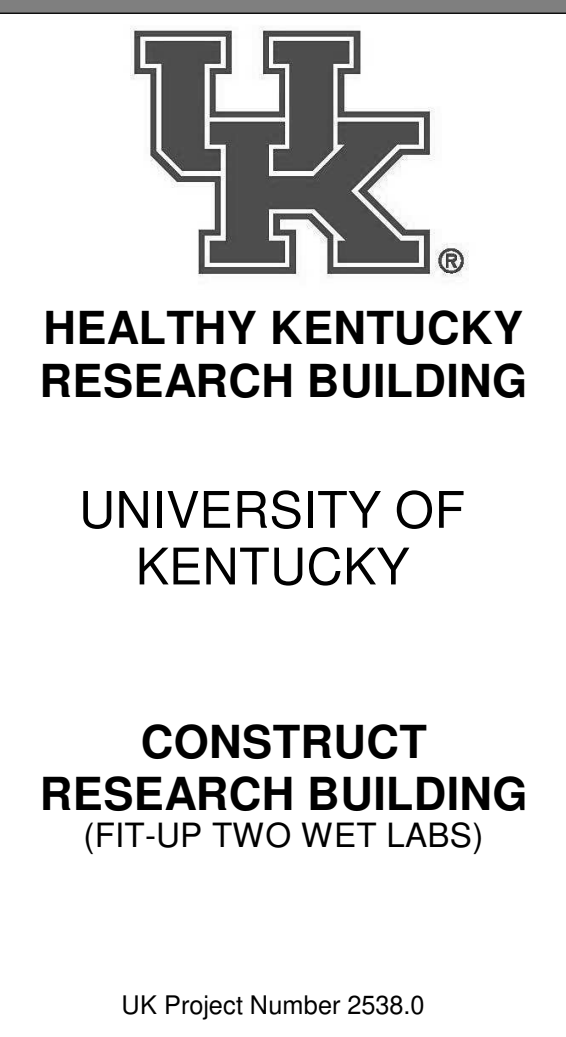


- REFER SHT # GENERAL REFERENCE DESIGNATES SHEET NUMBER
NAME # EQUIPMENT NAME AND NUMBER
DET # DETAIL REFERENCE TOP DESIGNATES DETAIL NUMBER BOTTOM DESIGNATES SHEET NUMBER
LAB # LAB EQUIPMENT NUMBER
PLAN # PLAN NOTE NUMBER
SECTION # SECTION REFERENCE TOP DESIGNATES SECTION NUMBER BOTTOM DESIGNATES SHEET NUMBER
REVISION # REVISION NUMBER
ELEVATION SYMBOL CONSTRUCTION BULLETIN NUMBER
NEW CONNECTION TO EXISTING

Table with 12 columns: CONFIGURATION TYPE (X), DESCRIPTION, # OF DATA JACKS, # OF COAX JACKS, # OF FIBER JACKS, DATA CABLE TYPE, CABLE COLOR, FACEPLATE, ICON COLOR, DEFAULT MOUNTING HEIGHT (REFER TO ARCHITECTURAL ELEVATIONS), CONDUIT, CABLE SOURCE. Rows include Wall Telephone, AV Camera, Intercom, Television, Security Camera, Access Contoller, Time Clock, Projector, Communications Access Point, Bas Gateway, Elevator Phone & Monitor, Emergency Phone, Automatic Transfer Switch, Pneumatic Tube, Overhead Paging Speaker, AV TV, and Wireless Access Point, Bollard.

- NOTES:
1. MOUNTING HEIGHTS ARE AS LISTED, UNLESS OTHERWISE NOTED ON DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT ELEVATIONS.
2. PROVIDE BLANK MODULES OR INSERTS AS REQUIRED TO FILL EMPTY FACEPLATE PORTS.
3. ALL CONDUIT, CABLE TRAY, SURFACE RACEWAY, FLOOR BOXES, AND BACK BOXES PROVIDED BY ELECTRICAL CONTRACTOR.
4. ALL COMMUNICATIONS FACEPLATES, JACKS, CABLE, TERMINATION HARDWARE, AND HORIZONTAL CABLE MANAGEMENT BY COMMUNICATIONS CONTRACTOR.
5. FOR FLOOR-MOUNTED OUTLETS, TERMINATE CABLES AT IDF ON SAME LEVEL AS OUTLET.
6. COORDINATE BAS GATEWAY OUTLET LOCATIONS WITH BAS CONTRACTOR PRIOR TO BEGINNING WORK.
7. IP OVERHEAD PAGING SPEAKERS ARE OFOI, IF APPLICABLE.
8. ALL FLOOR BOXES SERVING DATA LOCATIONS SHALL BE SERVED BY MINIMUM TWO (2) 1" CONDUITS. CONDUITS SHALL BE SIZED LARGER WHERE REQUIRED.
9. ALL FLOOR BOXES SERVING COMBINED AV AND DATA LOCATIONS SHALL BE SERVED BY MINIMUM THREE (3) 1.25" CONDUITS. CONDUITS SHALL BE SIZED LARGER WHERE REQUIRED.
10. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT PLACEMENT AND HEIGHTS FOR ALL TV/WALL MONITOR LOCATIONS. REFER TO CHART ON AVF-000 FOR ADDITIONAL RACEWAY REQUIREMENTS.

- ABBREVIATIONS
10GBASE-T 10 GIGABIT ETHERNET OVER TWISTED PAIR COPPER
10/100BaseTX ETHERNET/FAST ETHERNET
1000BaseSx GIGABIT ETHERNET (SHORT WAVELENGTH)
1000BaseLx GIGABIT ETHERNET (LONG WAVELENGTH)
AC ABOVE CEILING/ALTERNATING CURRENT
ACT ACOUSTICAL CEILING TILE
ADO AUTOMATIC DOOR OPENER
AFF ABOVE FINISHED FLOOR
ALT ALTERNATE
ARCH ARCHITECTURAL
ASC ABOVE SUSPENDED CEILING
AUTO AUTOMATIC
AWG AMERICAN WIRE GAUGE
BAS BUILDING AUTOMATION SYSTEM
BCS BUILDING CONTROL SYSTEM
BEF (BUILDING) ENTRANCE FACILITY
BFC BELOW FINISH CEILING
BFL BELOW FLOOR LEVEL
BLDG BUILDING
BMS BUILDING MANAGEMENT SYSTEM
BRKR BREAKER
C CONDUIT
CATV COMMUNITY ACCESS TELEVISION
CCTV CLOSED CIRCUIT TELEVISION
CCT CIRCUIT
CCT BKR CIRCUIT BREAKER
CLG CEILING
CONTR CONTRACTOR
CORR CORRIDOR
CP CONSOLIDATION POINT
CT CABLE TRAY
DB DIRECT BURIAL
EG ELECTRIC GROUND
DED DEDICATED
DET DETAIL
DIA DIAMETER
DN DOWN
DS DISCONNECT SWITCH
EG EMPTY CONDUIT/ELECTRICAL CONTRACTOR
EDB ELECTRIC DUOT BANK
EG EQUIPMENT GROUND
EGS ENGINE GENERATOR SET
EIDF EQUIPMENT INTERMEDIATE DISTRIBUTION FRAME
EJ EXPANSION JOINT
ELEC ELECTRIC/ELECTRICAL
EMER EMERGENCY
EMI ELECTROMAGNETIC INTERFERENCE
EMT ELECTRICAL METALLIC TUBING
EQUIP EQUIPMENT
ER EQUIPMENT ROOM
ETR EXISTING TO REMAIN
F/FC FLUSH WITH FINISHED CEILING
F/FF FLUSH WITH FINISHED FLOOR
F/FW FLUSH WITH FINISHED WALL
FA FIRE ALARM
FACP FIRE ALARM CONTROL PANEL
FL AT FLOOR LINE
FLEX FLEXIBLE
FLR FLOOR
FLUOR FLUORESCENT
FS FLOW SWITCH
FSS FUSED SAFETY SWITCH
FSCP FLAME SAFEGUARD CONTROL PANEL
FVNR FULL VOLTAGE NON-REVERSING
GBIC GIGABIT INTERFACE CONVERTER
GC GENERAL CONTRACTOR
GFCI GROUND FAULT CIRCUIT INTERRUPTER
GND GROUND
GEN GENERATOR
GRC GALVANIZED RIGID CONDUIT
HH HANDHOLE
HT HEIGHT/HEAT TRACE
HV HIGH VOLTAGE
IDF INTERMEDIATE DISTRIBUTION FRAME
IMC INTERMEDIATE METAL CONDUIT
JB JUNCTION BOX
KO KNOCK-OUT
KV KILOVOLT
KVA KILOVOLT-AMPERES
KW KILOWATTS
KWH KILOWATT HOURS
LAN LOCAL AREA NETWORK
LV LOW VOLTAGE
MATV MASTER ANTENNA TELEVISION
MC MECHANICAL CONTRACTOR
MDF MAIN DISTRIBUTION FRAME
MER MECHANICAL EQUIPMENT ROOM
MH MANHOLE
MM MULTIMODE
MP MUSIC & PAGE
MTD MOUNTED
MTG MOUNTING HEIGHT
NA NOT APPLICABLE
NC NURSE CALL
NIC NOT IN CONTRACT
NO NORMALLY OPEN
NTS NOT TO SCALE
OC ON CENTER
OFCI OWNER FURNISHED CONTRACTOR INSTALLED
OFOI OWNER FURNISHED OWNER INSTALLED
OS PHYSIOLOGICAL MONITORING
PB PULL BOX/PUSHBUTTON
PBX PRIVATE BRANCH EXCHANGE
PC PLUMBING CONTRACTOR/PHOTOCCELL/PERSONAL COMPUTER
PDU POWER DISTRIBUTION UNIT
PF POWER FACTOR
PH PHASE
PLBG PLUMBING
PNL PANEL
PWR POWER
REC RECEIVED
RECEP RECEPTACLE
REL RELOCATE
REQD REQUIRED
RFID RADIO FREQUENCY IDENTIFICATION
RU RACK UNIT
SHT SHEET
SIG SIGNAL
SIM SIMILAR
SM SINGLEMODE
SPEC SPECIFICATION
SS STAINLESS STEEL
STA STATION
SW SWITCH
TB TERMINAL BOX
TEL TELEPHONE
TFA TO FLOOR ABOVE
TFB TO FLOOR BELOW
TGB TELECOMMUNICATIONS GROUNDING BUSBAR
TMGB TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
TO TELECOMMUNICATIONS OUTLET
TR TELECOMMUNICATIONS ROOM
TS TAMPER SWITCH/TIME SWITCH
TV TELEVISION
TVSS TRANSIENT VOLTAGE SURGE SUPPRESSION
TYP TYPICAL
UC UNDER COUNTER
UG UNDERGROUND
UON UNLESS OTHERWISE NOTED
UPS UNINTERRUPTIBLE POWER SUPPLY
V VOLTAGE
W WIRE
WAO WORK AREA OUTLET
W/ WITH
WP WEATHERPROOF
WS WALL SURFACE
WT WATER TIGHT
X-XFMR EXISTING TRANSFORMER
XP EXPLOSION PROOF



ISSUANCES

Table with 3 columns: No., Description, Date. Shows 6 issued items for Phase 2 CD 100%, 100% CD Review, and various DD and CD issues.

Drawn By: JV
Checked By: KO
Client Number: 514
Project Number: 15576
Includes professional engineer seal for Andrew Scoville.

DRAWING
TECHNOLOGY PHASE 3 FO SYMBOLS AND ABBREVIATIONS
SHEET NO.
TF-050

ISSUANCES

No.	Description	Date
1	PHASE 2 DD 100%	08/15/2018
2	100% CD REVIEW	10/15/18
3	ISSUED FOR BID & PERMIT	11/15/18
4	DD ISSUANCE - NIH	02/05/20
5	CD ISSUANCE - NIH	04/14/20
6	BID & PERMIT - NIH	09/22/20

Drawn By

JV

Checked By

KO

Client Number

514

Project Number

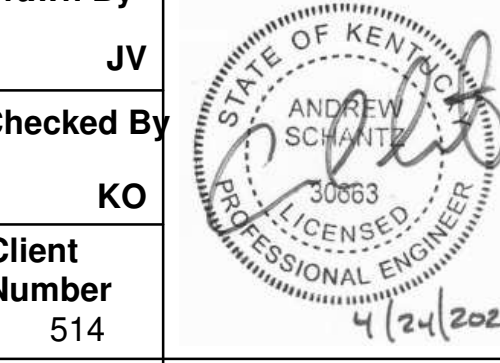
15576

DRAWING

TECHNOLOGY PHASE 3 FO PLAN LEVEL ONE AREA B

SHEET NO.

TF-251B

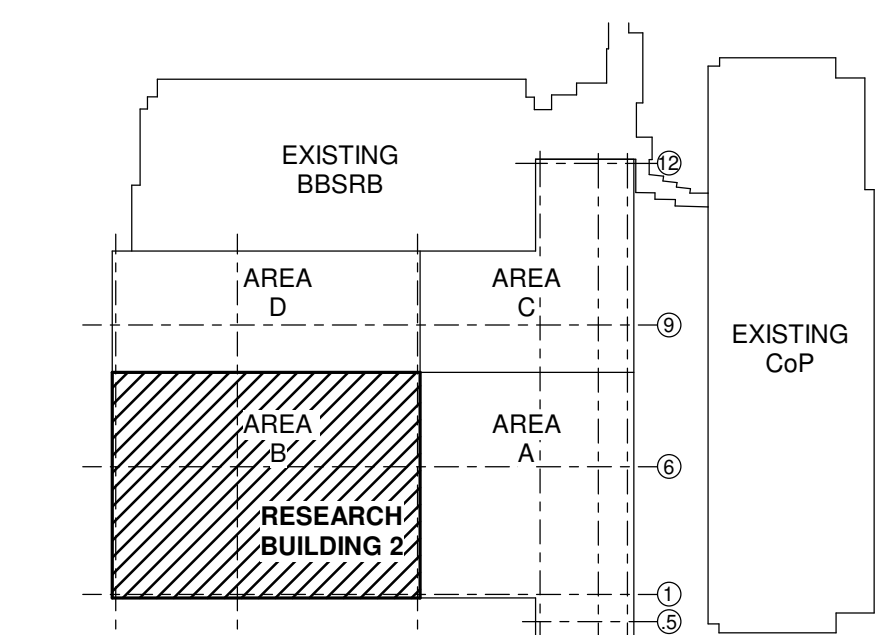


GENERAL NOTES

1. ALL WORK AND MATERIAL SHALL COMPLY WITH UNIVERSITY OF KENTUCKY COMMUNICATIONS AND NETWORK SYSTEMS (CNS) TELECOMMUNICATION STANDARDS (LATEST VERSION).
2. CABLES ON THIS SHEET SHALL TERMINATE IN THE DESIGNATED IDF AS LISTED ON THE SHEET OR IN THE KEYNOTES.
3. CABLE TRAY, CONDUIT RACEWAYS, CONDUIT BACKBOXES, FLOOR AND WALL SLEEVES SHALL BE PROVIDED BY THE DIVISION 26 CONTRACTOR. CONDUIT RACEWAYS SHALL BE PROVIDED FROM BACKBOX TO NEAREST ACCESSIBLE CABLE TRAY. THE EXCEPTION TO THIS RULE WILL BE THAT THE DIVISION 27 CONTRACTOR SHALL PROVIDE ALL CABLE TRAY WITHIN THE BDF, MDF, IDF, AND ALL IDFS.
4. COORDINATE WITH ARCHITECTURAL ELEVATION DRAWINGS FOR EXACT OUTLET LOCATIONS AND HEIGHTS. ALL OUTLET LOCATIONS AND WALLBOX PLACEMENT SHALL BE LOCATED PER ARCHITECTURAL DRAWINGS.
5. PLYWOOD ON WALLS IN THE BDF, MDF, IDFS, AND IDF SHALL BE IN COMPLIANCE WITH CNS STANDARDS. THE FIRE RATING STAMP ON PLYWOOD SHEETS SHALL NOT BE PAINTED OVER OR COVERED IN ANY MANNER. THE FIRE RATING STAMP SHALL FACE OUT AND BE READILY VISIBLE.
6. COORDINATE INSTALLATION OF REQUIRED CABLE LOCATIONS WITH SECURITY, AV SYSTEMS, LIGHTING CONTROL, EQUIPMENT MONITORING, ETC. WITH SYSTEM VENDORS AND INTEGRATORS. REFER TO SYSTEMS VENDORS CONTRACT AND PROJECT DOCUMENTS FOR ADDITIONAL INFORMATION.
7. CABLE TRAY AND SUPPORTING INFRASTRUCTURE SHOWN IN HALF-TONE PROVIDED DURING PREVIOUS PHASE AND IS EXISTING TO REMAIN.

KEYED NOTES

1. UTILIZE EXISTING POKE-THRU FLOOR BOX FOR NEW DATA CABLING TO FURNITURE SYSTEM. PROVIDE FLEX CONDUIT SIZED ACCORDING TO UNIVERSITY OF KENTUCKY IT STANDARDS. COORDINATE ROUTING THROUGH WITH FURNITURE FEED SYSTEM WITH ARCHITECTURAL DRAWINGS AND FURNITURE MANUFACTURER PRIOR TO INSTALLATION.
2. EQUIPMENT ROOM INFRASTRUCTURE INCLUDING CABLE RUNWAY, RACKS, AND VERTICAL WIRE MANAGEMENT WITH EXISTING IDF WAS PROVIDED IN PREVIOUS PHASE. CONTRACTOR SHALL PROVIDE NEW MODULAR PATCH PANELS AND HORIZONTAL WIRE MANAGEMENT AS NECESSARY TO ACCOMMODATE NEW WORK FOR THIS PHASE. COORDINATE PLACEMENT OR PATCH PANELS WITH CNS PRIOR TO FINAL TERMINATIONS.
3. PROVIDE DATA LOCATION AT 48" HEIGHT FOR FUTURE SCHEDULING DISPLAY DEVICE.
4. EC TO PROVIDE NEW POKE-THRU FLOOR BOX FOR DATA FEED TO FURNITURE SYSTEM. PROVIDE FLEX CONDUIT SIZED ACCORDING TO UNIVERSITY OF KENTUCKY IT STANDARDS. COORDINATE INTERFACE WITH FURNITURE FEED SYSTEM WITH ARCHITECTURAL DRAWINGS AND FURNITURE MANUFACTURER PRIOR TO INSTALLATION.
5. TERMINATE DATA CABLES FROM IDF AT 4-PORT MODULAR WIRING PANELS IN CEILING. CONTRACTOR SHALL LEAVE A MINIMUM OF 5' SERVICE LOOP COILED NEATLY IN THE CEILING. PRE WIRED FURNITURE FEED SYSTEM SHALL INTERFACE WITH 4-PORT DATA PANELS IN CEILING. CONTRACTOR SHALL PROVIDE AND INSTALL SPIRAL WRAP FOR DATA CABLE ROUTING FROM CEILING MODULAR PANEL INTERFACE TO DESK WORKSTATION. COORDINATE WITH ELECTRICAL DRAWINGS FOR MORE INFORMATION. COORDINATE WITH PRE WIRED FURNITURE SYSTEM MANUFACTURER PRIOR TO INSTALLATION.
6. CONTRACTOR SHALL PROVIDE AND INSTALL (4) 4" EMT CONDUIT RACEWAYS FROM THE CABLE TRAY IN THE CORRIDOR OF LAB NEIGHBORHOOD MODULE 451 TO THE CABLE RUNWAY IN IDF 442. TERMINATE CONDUIT ENDS WITH BUSINESSES PER UK IT STANDARDS. FIRESTOP ALL WALL PENETRATIONS PER PROJECT SPECIFICATIONS.
7. WIRELESS ACCESS POINT TO BE CISCO MODEL 3802I 2.4+5.
8. WIRELESS ACCESS POINT TO BE CISCO MODEL 3802I MICRO.
9. WIRELESS ACCESS POINT TO BE CISCO MODEL 3802I MACRO.
10. WIRELESS ACCESS POINT TO BE CISCO MODEL 3802I 5+5 MICRO.



KEY PLAN



1 PHASE 3 TECHNOLOGY FO PLAN LEVEL ONE AREA B
TF-251B 1/8" = 1'-0"

AUDIO VISUAL SYMBOLS AND ABBREVIATIONS

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X WORKSTATION OUTLETS
CONFIGURATION: X-REFER TO CHART BELOW
MOUNTING LOCATION: REFER TO CHART BELOW
MOUNTING HEIGHT: REFER TO CHART BELOW

CONVENIENCE POWER RECEPTACLE PROVIDED BY DIVISION 26 (ELEVATION VIEW)

— NEW
- - - FUTURE
— EXISTING

IC INTERCOM OUTLETS - WALL MOUNTED
CONFIGURATION: REFER TO CHART BELOW
MOUNTING LOCATION: FLUSH WALL
MOUNTING HEIGHT: FIELD VERIFY

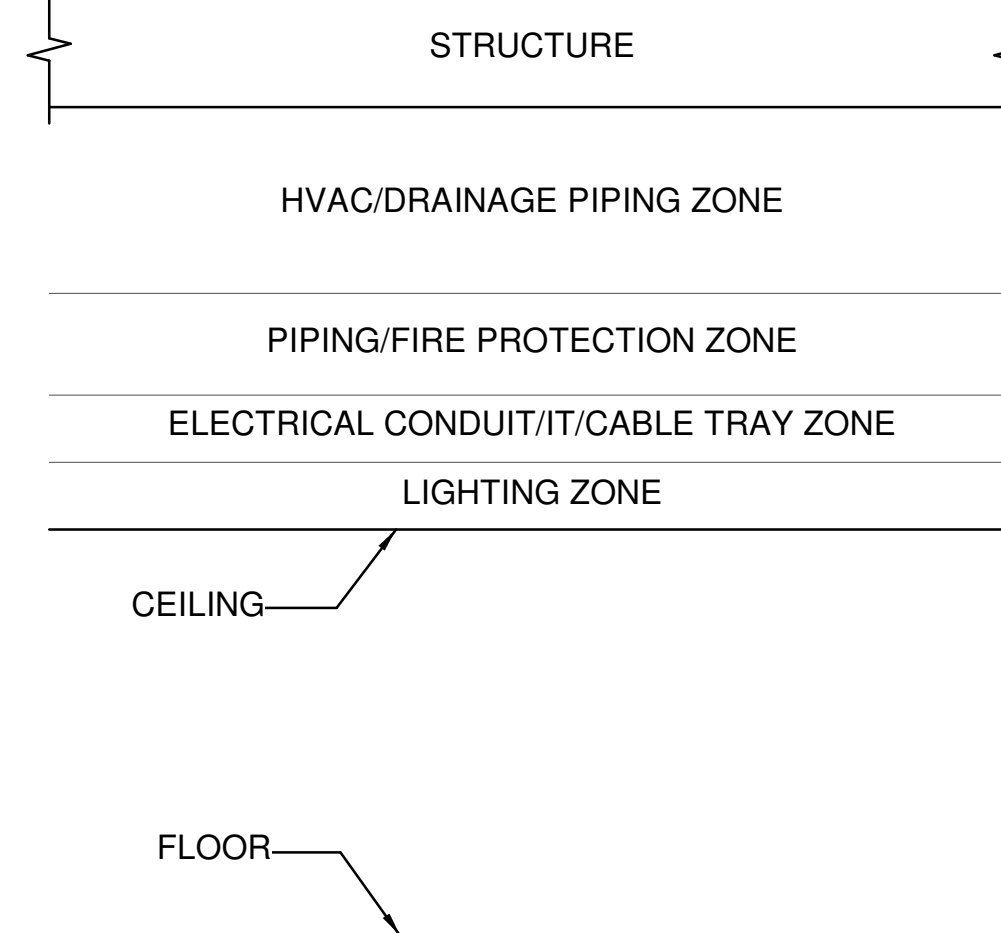
CROSS CONNECT POINT (NEW)
TGB

○ CONDUIT STUB-UP MOUNTING LOCATION: FLOOR
○ CONDUIT STUB MOUNTING LOCATION: WALL

REFER SHT # GENERAL REFERENCE DESIGNATES SHEET NUMBER
NAME # EQUIPMENT NAME AND NUMBER
DET # SHT # DETAIL REFERENCE TOP DESIGNATES DETAIL NUMBER BOTTOM DESIGNATES SHEET NUMBER
SHT # SECTION REFERENCE TOP DESIGNATES SECTION NUMBER BOTTOM DESIGNATES SHEET NUMBER
+ ELEVATION SYMBOL
+ NEW CONNECTION TO EXISTING

LAB EQUIPMENT NUMBER
PLAN NOTE NUMBER
REVISION NUMBER
CONSTRUCTION BULLETIN NUMBER

TYPICAL ABOVE CEILING TRADE ZONES
NOTE TRADE CONTRACTOR SHALL ROUTE SERVICES THROUGH THEIR RESPECTIVE ZONES AND COORDINATE ALL PATHWAYS WITH OTHER TRADES. PHASE INSTALLATION AS NECESSARY TO ALLOW OTHER TRADES TO INSTALL SERVICES AS INDICATED ON PLANS.



AUDIO VISUAL - FLAT PANEL DISPLAY SCHEDULE PHASE 2 FO		
OUTLET ID	Level	Comments
101	LEVEL 01	
102	LEVEL 01	
103	LEVEL 01	
104	LEVEL 01	
105	LEVEL 01	
404	LEVEL 04	
405	LEVEL 04	
407	LEVEL 04	
408	LEVEL 04	
409	LEVEL 04	
411	LEVEL 04	
501	LEVEL 05	
502	LEVEL 05	
503	LEVEL 05	
504	LEVEL 05	
505	LEVEL 05	
506	LEVEL 05	

CABLING SCHEDULE		CONDUIT SIZE SCHEDULE	
A	(1) Pre-terminated HDMI cord	1	1" EMT
B	(2) CAT-6 cables for HDMI over Cat6	2	1-3/4" EMT
C	Low voltage control cables for automated motorized screen control	3	1-1/2" EMT
D	No cabling, conduit infrastructure only	4	2" EMT

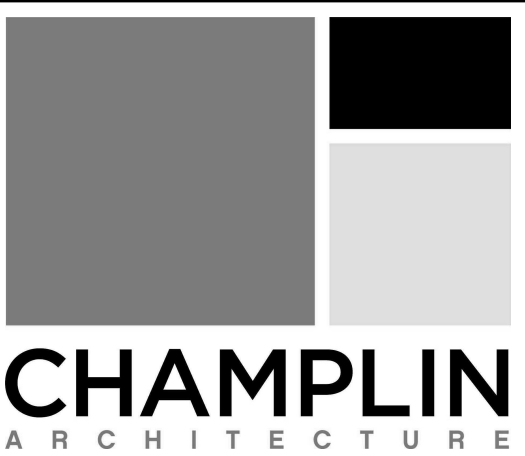
AUDIO VISUAL - PROJECTOR SCREEN SCHEDULE PHASE 2 FO		
Mark	Level	Length
13	LEVEL 01	12' - 0"
41	LEVEL 04	6' - 0"

CONFIGURATION TYPE (X)	DESCRIPTION	# OF DATA JACKS	# OF COAX JACKS	# OF FIBER JACKS	DATA CABLE TYPE	CABLE COLOR	FACEPLATE	ICON COLOR	DEFAULT MOUNTING (REFER TO ARCHITECTURAL ELEVATIONS)	CONDUIT	CABLE SOURCE
AVC	AV CAMERA	1			CAT. 6A F/UTP	GREEN	1-GANG	GREEN	FLUSH CEILING	(1) 1"	IDF ROOM
AVTV	AV TV	2	1		CAT. 6A F/UTP	GREEN	1-GANG	GREEN	AS NOTED ON AV DRAWINGS	MIN (2) 1.25" OR AS NOTED ON AV DRAWINGS	IDF ROOM OR AS NOTED ON AV DRAWINGS
IC	INTERCOM	1			CAT. 6A F/UTP	GREEN	1-GANG	GREEN	48" AFF	(1) 1"	IDF ROOM
-	-	1			CAT. 6A F/UTP	GREEN	1-GANG	GREEN	FLUSH CEILING	(1) 1"	IDF ROOM
-	-										

NOTES:

1. MOUNTING HEIGHTS ARE AS LISTED, UNLESS OTHERWISE NOTED ON DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT ELEVATIONS.
2. PROVIDE BLANK MODULES OR INSERTS AS REQUIRED TO FILL EMPTY FACEPLATE PORTS.
3. ALL CONDUIT, CABLE TRAY, SURFACE RACEWAY, FLOOR BOXES, AND BACK BOXES PROVIDED BY ELECTRICAL CONTRACTOR.
4. ALL COMMUNICATIONS FACEPLATES, JACKS, CABLE, TERMINATION HARDWARE, AND HORIZONTAL CABLE MANAGEMENT BY COMMUNICATIONS CONTRACTOR.
5. FOR FLOOR-MOUNTED OUTLETS, TERMINATE CABLES AT IDF ON SAME LEVEL AS OUTLET.
6. IP OVERHEAD PAGING SPEAKERS ARE OFOI, IF APPLICABLE.
7. ALL FLOOR BOXES SERVING DATA LOCATIONS SHALL BE SERVED BY MINIMUM TWO (2) 1" CONDUITS. CONDUITS SHALL BE SIZED LARGER WHERE REQUIRED.
8. ALL FLOOR BOXES SERVING AV LOCATIONS SHALL BE SERVED BY MINIMUM TWO (2) 1.25" CONDUITS. CONDUITS SHALL BE SIZED LARGER WHERE REQUIRED.

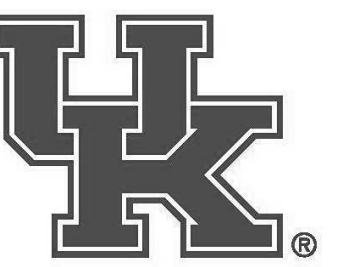
AUDIO VISUAL SYMBOL LIST	
	CABLING-CONDUIT CALL OUT. LETTER FOR CABLING, NUMBER FOR CONDUIT SIZE. SEE CABLING AND CONDUIT SIZE TABLES ON THIS SHEET.
	MULTI-SERVICE FLOOR BOX. POWER, DATA, AV
	FLAT PANEL CONNECTION WALL BOX. PROVIDE FULL SINGLE GANG FACE PLATE FOR DATA AND AV CONNECTION
	AV CONNECTION WALL BOX. PROVIDE FULL SINGLE GANG FACE PLATE FOR DATA AND AV CONNECTION, CONNECTION TO SUPPORT TV CONNECTIVITY TO AV OUTLET. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS.
	CEILING MOUNTED PROJECTOR
	AV FLOOR JUNCTION BOX
	AV FOUR POST RACK
	CEILING MOUNTED MOTORIZED PROJECTOR SCREEN
	CEILING MOUNTED AV CAMERA



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HEALTHY KENTUCKY RESEARCH BUILDING

UNIVERSITY OF KENTUCKY

CONSTRUCT RESEARCH BUILDING (FIT-UP TWO WET LABS)

UK Project Number 2538.0

ISSUANCES

No.	Description	Date
1	100% CD REVIEW	10/15/18
2	ISSUED FOR BID & PERMIT	11/15/18
3	DD ISSUANCE - NIH	02/05/20
4	CD ISSUANCE - NIH	04/14/20
5	BID & PERMIT - NIH	06/22/20

Drawn By
KO
Checked By
KO
Client Number
514
Project Number
15576



DRAWING
AUDIO VISUAL PHASE 3 FO SYMBOLS AND ABBREVIATIONS
SHEET NO.
AVF-050

ISSUANCES

No.	Description	Date
1	DD ISSUANCE - NIH	02/05/20
2	CD ISSUANCE - NIH	04/14/20
3	BID & PERMIT - NIH	05/22/20

Drawn By	KO
Checked By	KO
Client Number	514
Project Number	15576

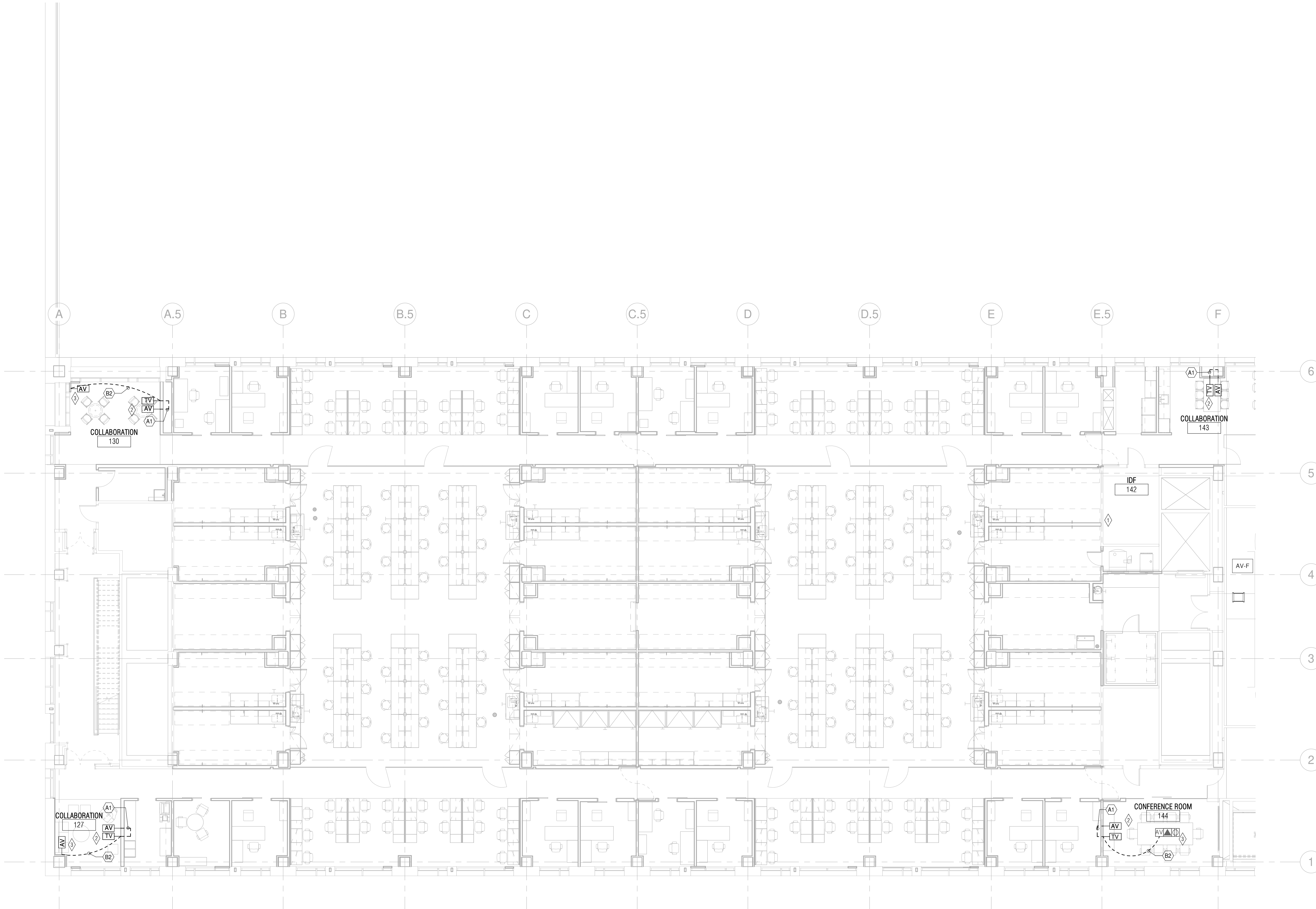
DRAWING
AUDIO VISUAL PHASE
3 FO PLAN LEVEL
ONE AREA B
SHEET NO.
AVF-251B

GENERAL NOTES

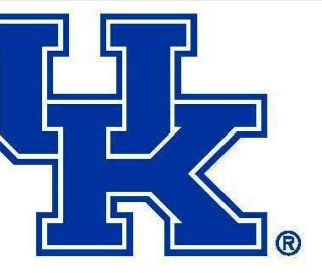
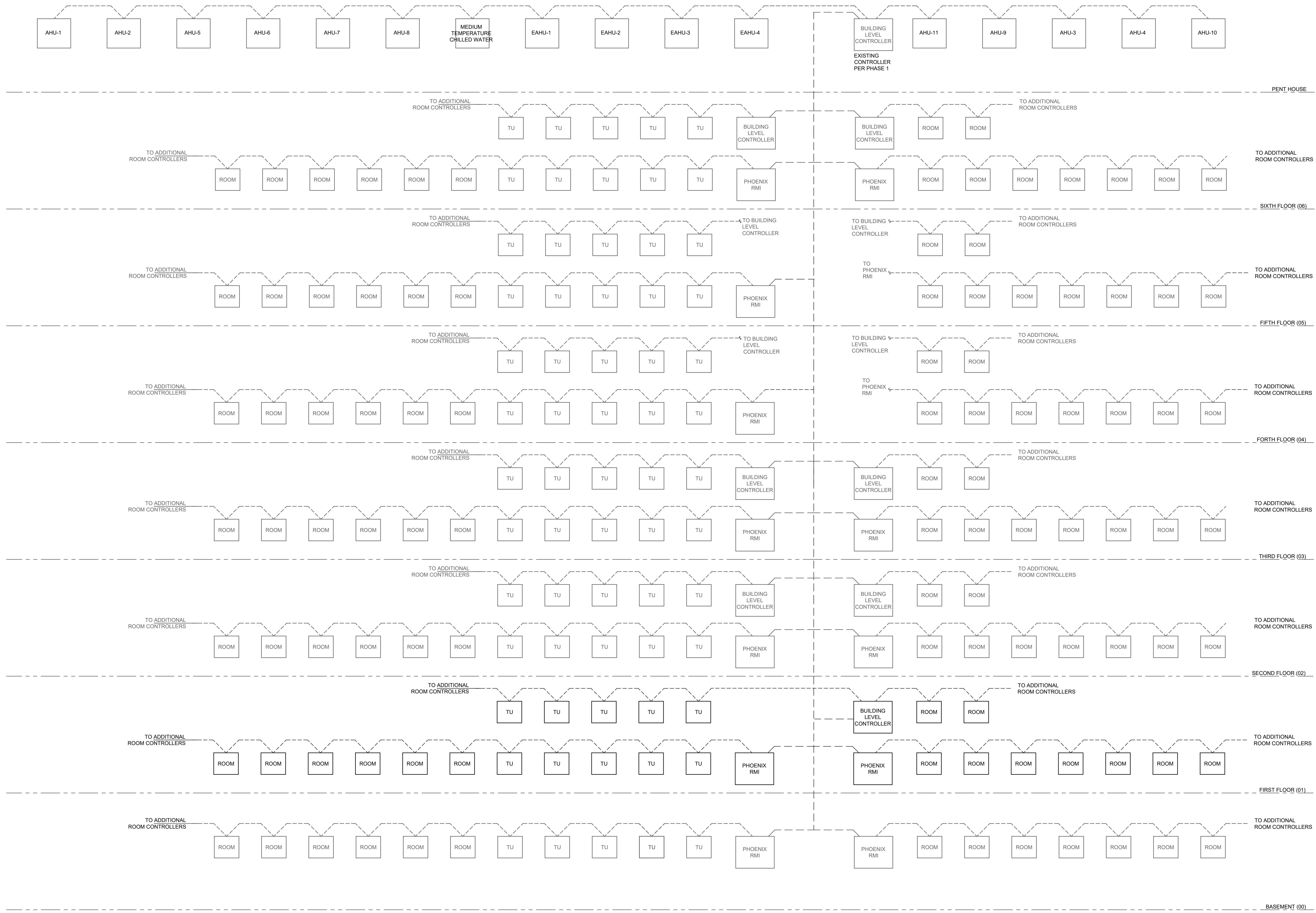
1. ALL WORK AND MATERIAL SHALL COMPLY WITH UNIVERSITY OF KENTUCKY COMMUNICATIONS AND NETWORK SYSTEMS (CNS) TELECOMMUNICATION STANDARDS (LATEST VERSION).
2. CABLE TRAY, CONDUIT RACEWAYS, CONDUIT BACKBOXES, FLOOR AND WALL SLEEVES SHALL BE PROVIDED BY THE DIVISION 26 CONTRACTOR. CONDUIT RACEWAY SHALL BE PROVIDED FROM BACKBOX TO NEAREST ACCESSIBLE CABLE TRAY. THE EXCEPTION TO THIS RULE WILL BE THAT THE DIVISION 27 CONTRACTOR SHALL PROVIDE ALL CABLE TRAY WITHIN THE BDF, MDF, EDF, AND ALL IDF'S.
3. COORDINATE WITH ARCHITECTURAL ELEVATION DRAWINGS FOR EXACT OUTLET LOCATIONS AND HEIGHTS. ALL OUTLET LOCATIONS AND WALLBOX PLACEMENT SHALL BE LOCATED PER ARCHITECTURAL DRAWINGS.
4. COORDINATE INSTALLATION OF REQUIRED CABLE LOCATIONS WITH EQUIPMENT AND SYSTEM VENDORS. REFER TO SYSTEM VENDOR CONTRACT AND PROJECT DOCUMENTS FOR ADDITIONAL INFORMATION.
5. CABLE TRAY AND SUPPORTING INFRASTRUCTURE SHOWN IN HALF-TONE PROVIDED DURING PREVIOUS PHASE AND IS EXISTING TO REMAIN.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF EXISTING INFRASTRUCTURE SHOWN ON DRAWINGS THAT IS REQUIRED TO SUPPORT SCOPE OF NEW WORK FOR THIS PHASE.

KEYED NOTES

1. EQUIPMENT ROOM INFRASTRUCTURE INCLUDING CABLE RUNWAY, RACKS, AND VERTICAL WIRE MANAGEMENT WITHING EXISTING IDF WAS PROVIDED IN PREVIOUS PHASE. CONTRACTOR SHALL PROVIDE NEW MODULAR PATCH PANELS AND HORIZONTAL WIRE MANAGEMENT AS NECESSARY TO ACCOMMODATE NEW WORK FOR THIS PHASE. COORDINATE PLACEMENT OR PATCH PANELS WITH CNS PRIOR TO FINAL TERMINATIONS.
2. EG TO PROVIDE WALL MOUNTED AV BOX. COORDINATE LOCATION OF TV DATA OUTLET WITH ARCHITECTURAL DRAWINGS.
3. DATA CABLES PROVIDED UNDER TECHNOLOGY SCOPE. REFER TO TF-SERIES DRAWINGS FOR DATA CABLE REQUIREMENTS.



GENERAL NOTES:
 1. THE INTENT OF THIS DIAGRAM IS TO PROVIDE A BASIS FOR THE BAS. NOT THE ACTUAL LAYOUT OF THE FINAL DESIGN. BAS CONTRACTOR SHALL PROVIDE ADDITIONAL CONTROLLERS AS NECESSARY TO FULFILL REQUIREMENTS AND SEQUENCES LISTED IN 23-0901, 23-0923, AND 23-0993.



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1	PHASE 2 CD REVIEW	08/15/18
2	PHASE 2 CD REVIEW	10/15/18
3	ISSUE FOR BID & PERMIT	11/15/18
4	DD ISSUANCE - NH	02/05/20
5	CD ISSUANCE - NH	04/14/20
6	ISSUE FOR BID & PERMIT	09/22/20

Drawn By

EJ

Checked By

DS

Client Number

514

Project Number

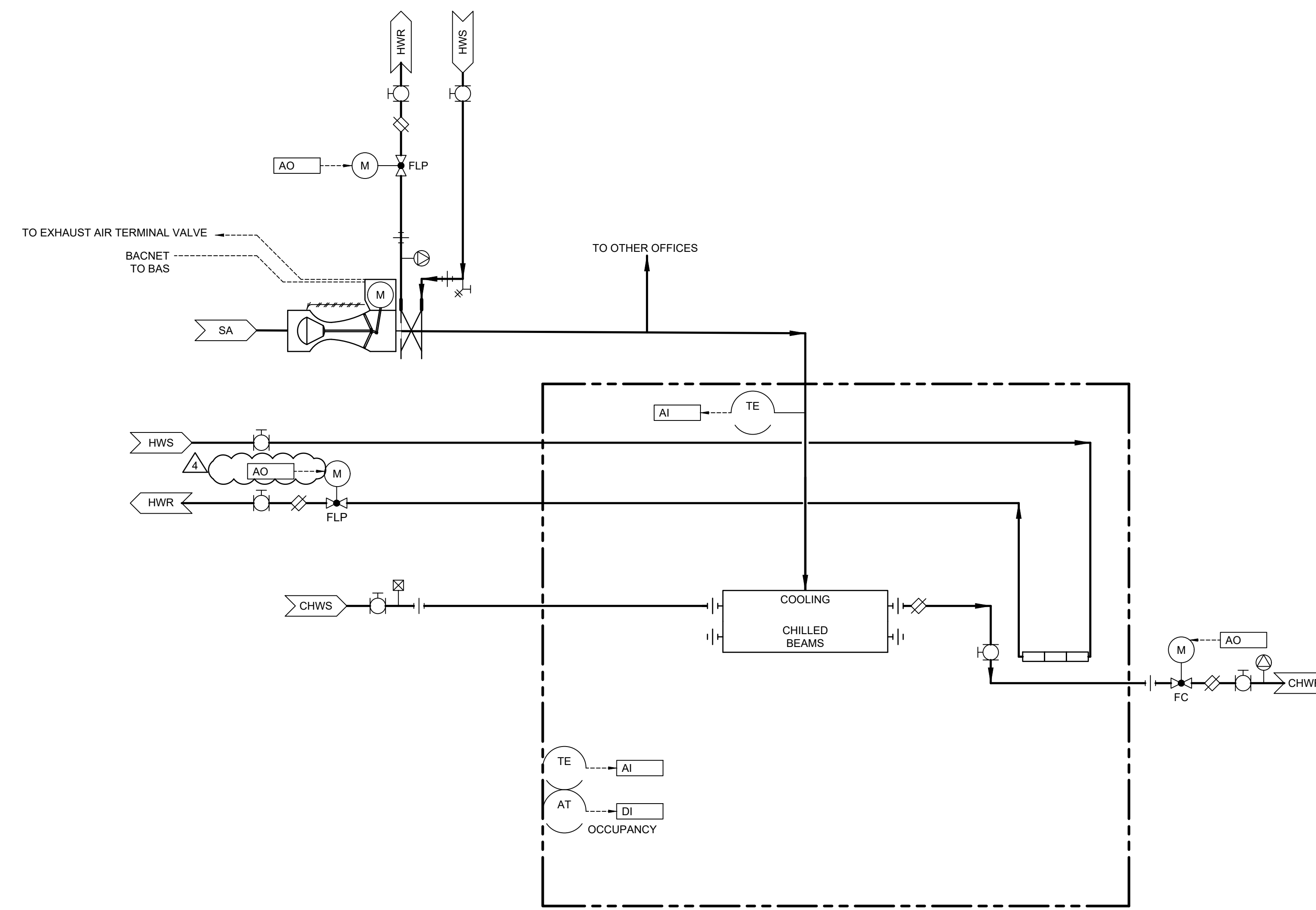
5350

DRAWING TITLE
 BAS SYSTEM ARCHITECTURE

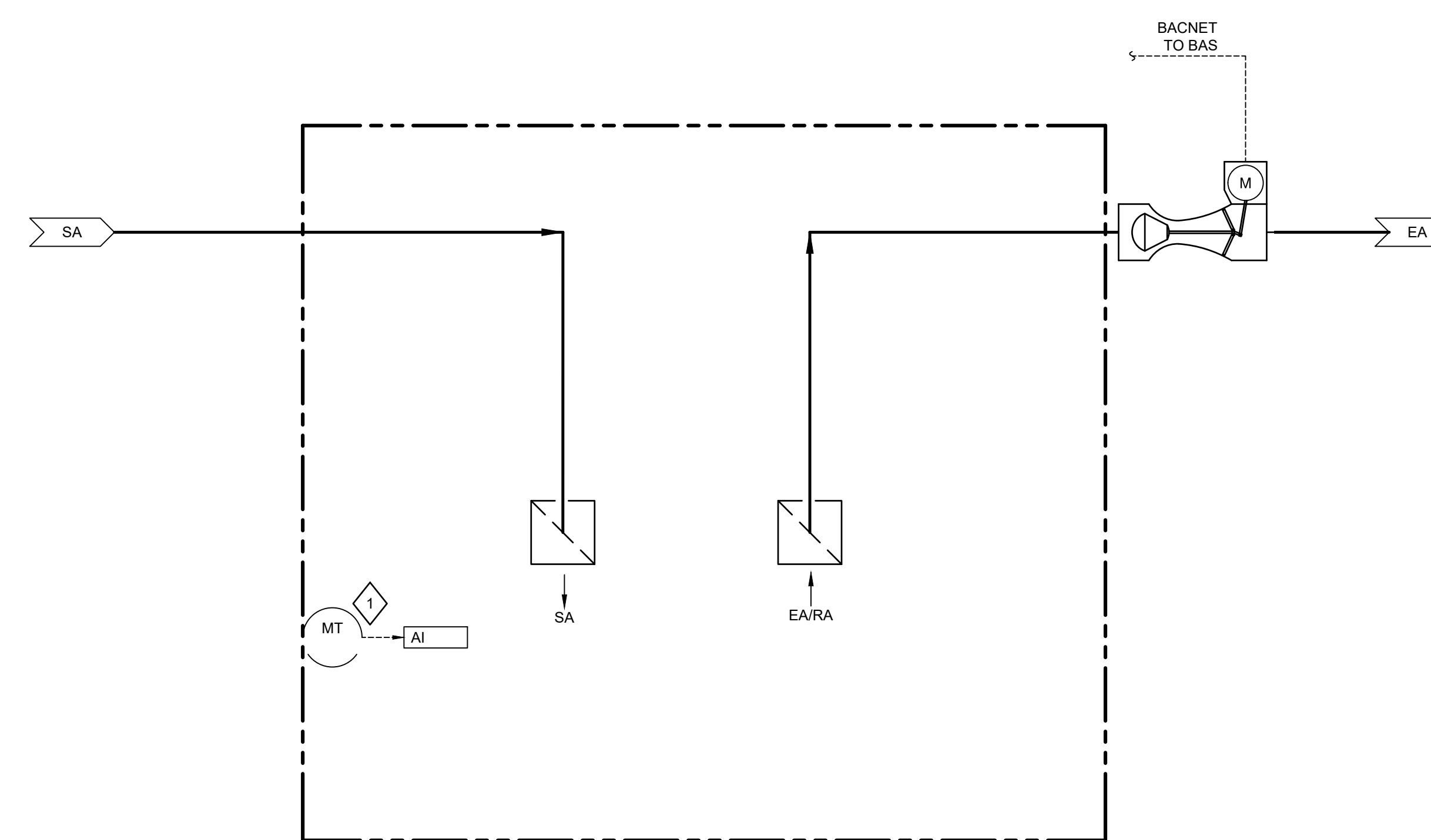
SHEET NO.

IC-550

02/05/2020 10:00:00 AM



1 SEQUENCE A: OFFICE WITH EXTERIOR EXPOSURE
SCALE: NONE



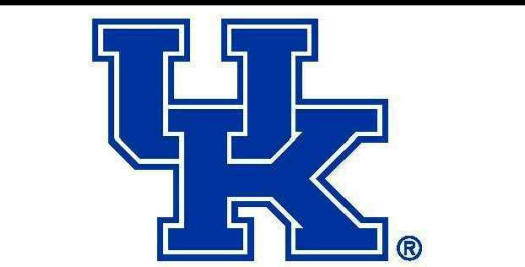
2 SEQUENCE B: HALLWAYS ASSOCIATED WITH OFFICES
SCALE: NONE

GENERAL NOTES:

1. THE CONTROL/FLOW DIAGRAM IS ONLY INTENDED TO PROVIDE CONTROL AND INSTRUMENTATION RELATED INFORMATION. REFER TO MECHANICAL DETAILS FOR VALVING, DAMPING AND ASSOCIATED SPECIALTIES' INSTALLATION REQUIREMENTS.
2. CONTROL/FLOW DIAGRAM INCLUDES GENERAL ARRANGEMENT OF SYSTEM COMPONENTS. REFER TO FLOOR PLANS AND EQUIPMENT SCHEDULES FOR COMPONENT QUANTITIES.

SHEET KEYNOTES

1. SENSOR WHERE INDICATED ON MECHANICAL DRAWINGS.



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ISSUANCES

No.	Description	Date
1	PHASE 2 CD TASK	06/15/18
2	PHASE 2 CD REVIEW	10/15/18
3	ISSUE FOR BID & PERMIT	11/15/18
4	P2 ADDENDUM #5	02/28/19
5	CD ISSUANCE - NH	03/05/20
6	CD ISSUANCE - NH	04/14/20
7	ISSUE FOR BID & PERMIT	05/22/20

Drawn By	EJ
Checked By	DS
Client Number	514
Project Number	5350

**DRAWING
TITLE**
TERMINAL UNITS

SHEET NO.
IC-753

ISSUANCES

No.	Description	Date
1	PHASE 2 CD 100%	06/15/18
2	PHASE 2 CD REVIEW	10/15/18
3	ISSUE FOR BID & PERMIT	11/15/18
4	P2 ADDENDUM #5	02/28/19
5	CD ISSUANCE - NH	03/05/20
6	CD ISSUANCE - NH	04/14/20
7	ISSUE FOR BID & PERMIT	05/22/20

Drawn By
EJ

Checked By
DS

Client Number
514

Project Number
5350

DRAWING
TITLE
TERMINAL UNITS

SHEET NO.
IC-754

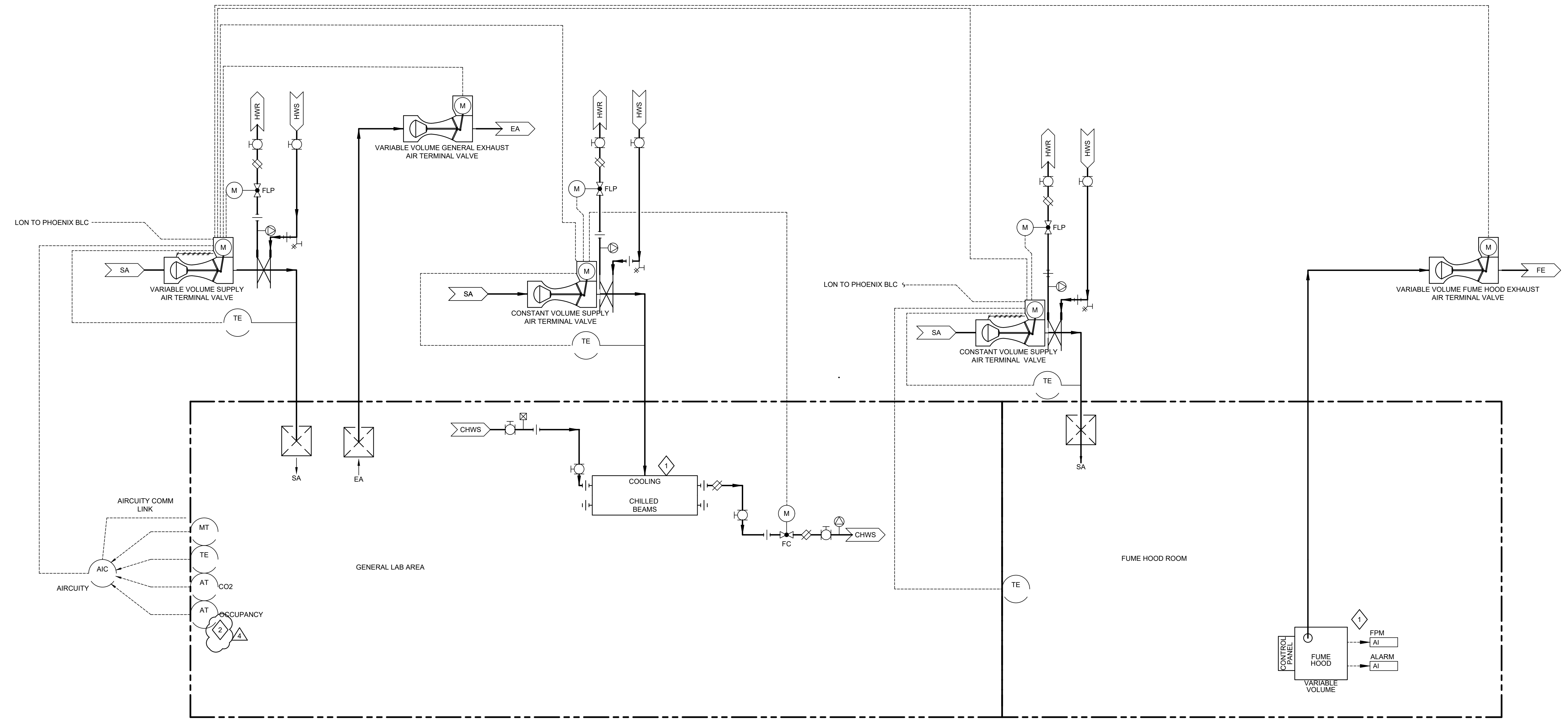
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GENERAL NOTES:

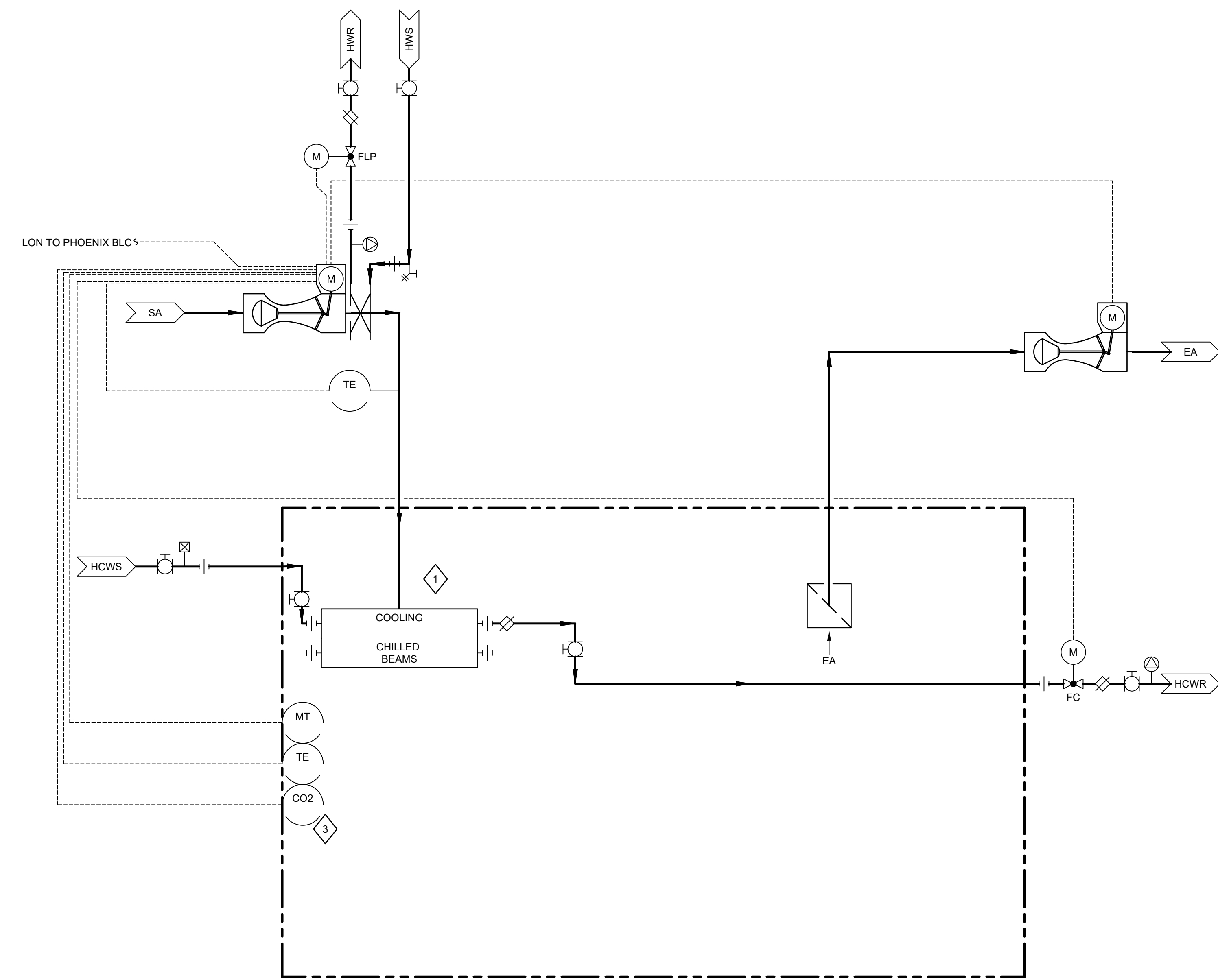
1. THE CONTROL/FLOW DIAGRAM IS ONLY INTENDED TO PROVIDE CONTROL AND INSTRUMENTATION RELATED INFORMATION. REFER TO MECHANICAL DETAILS FOR VALVING, DAMPING AND ASSOCIATED SPECIALTIES' INSTALLATION REQUIREMENTS.
2. CONTROL/FLOW DIAGRAM INCLUDES GENERAL ARRANGEMENT OF SYSTEM COMPONENTS. REFER TO FLOOR PLANS AND EQUIPMENT SCHEDULES FOR COMPONENT QUANTITIES.

SHEET KEYNOTES

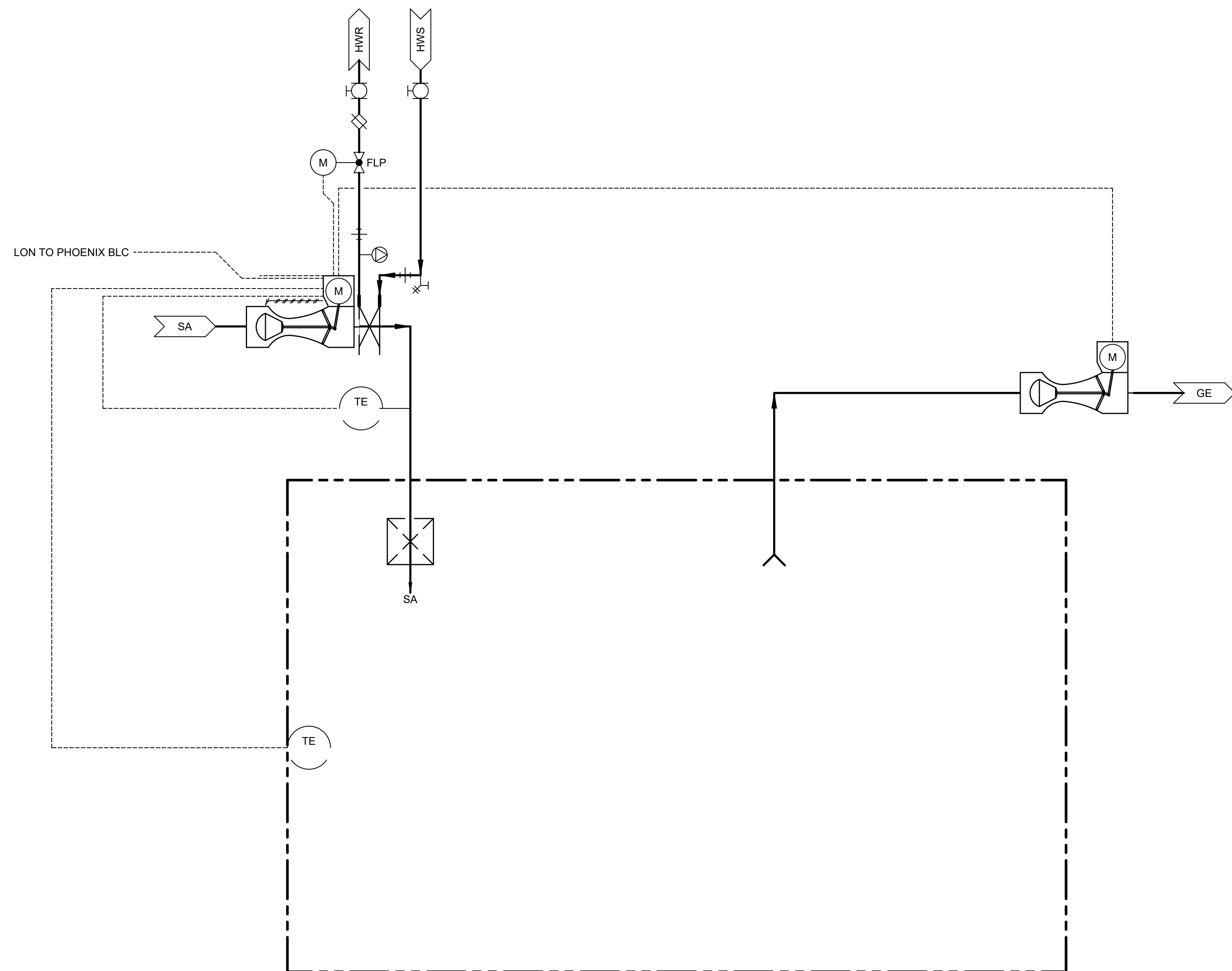
1. MULTIPLE UNITS PER ZONE.
2. OCCUPANCY SENSOR PROVIDED BY CONTROL CONTRACTOR.



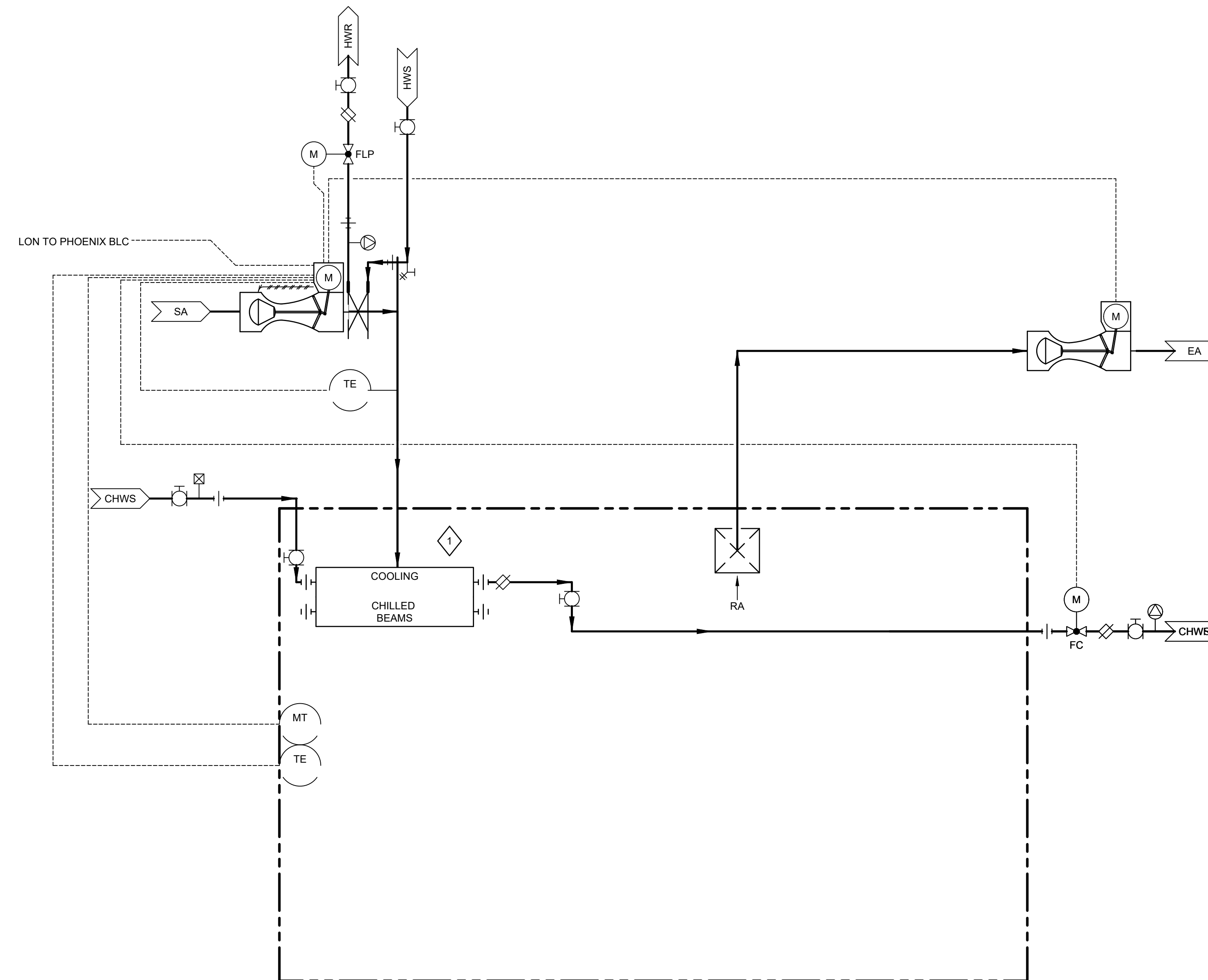
1 SEQUENCE H - MAIN LABROTARY AREA & FUME HOOD ROOM
SCALE: NONE



2 SEQUENCE K: "WET LAB" PROCEDURE ROOM
SCALE: NONE



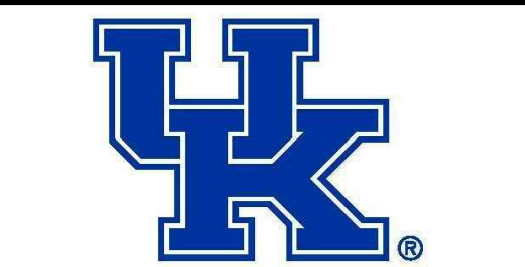
3 SEQUENCE L: STERILIZER ROOM
SCALE: NONE



1 SEQUENCE J: LINEAR EQUIPMENT ROOM
SCALE: NONE

- GENERAL NOTES:**
1. THE CONTROL/FLOW DIAGRAM IS ONLY INTENDED TO PROVIDE CONTROL AND INSTRUMENTATION RELATED INFORMATION. REFER TO MECHANICAL DETAILS FOR VALVING, DAMPING AND ASSOCIATED SPECIALTIES INSTALLATION REQUIREMENTS.
 2. CONTROL/FLOW DIAGRAM INCLUDES GENERAL ARRANGEMENT OF SYSTEM COMPONENTS. REFER TO FLOOR PLANS AND EQUIPMENT SCHEDULES FOR COMPONENT QUANTITIES.

- SHEET KEYNOTES**
1. MULTIPLE UNITS PER ZONE.
 2. UNIT WHERE SHOWN ON PLANS.
 3. SENSOR WHERE SHOWN ON PLANS.



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4	DD ISSUANCE - NH	02/05/20
5	CD ISSUANCE - NH	04/14/20
6	ISSUE FOR BID & PERMIT	05/22/20

Drawn By
EJ
Checked By
DS
Client Number
514
Project Number
5350

DRAWING TITLE
TERMINAL UNITS

SHEET NO.
IC-755

CONTROL VALVES

UNIT TYPE	SYSTEM	TYPE	#-WAYS	CONTROL	PIPE LINE SIZE (IN)	SPECIFIC GRAVITY	DESIGN DP (PSID)	FLOW RATE (GPM)	SHUTOFF DIFFERENTIAL PRESSURE (PSID)	VALVE CV CALCULATED	ACTUATOR TYPE	FAIL POSITION	PRESSURE OR VOLT	REMARKS
TERMINAL UNITS														
	RADINAT	HW	CHARACTERIZED BALL	2-WAY	MODULATING	1/2 to 2 1/2	1.00	4	0.2 - 29.9	60	0.1 - 14.99	ELECTRIC	FAIL LAST	24
	FINTUBE	HW	CHARACTERIZED BALL	2-WAY	MODULATING	1/2 to 2 1/2	1.00	4	0.2 - 29.9	60	0.1 - 14.99	ELECTRIC	FAIL LAST	24
	REHEAT	HW	CHARACTERIZED BALL	2-WAY	MODULATING	1/2 to 2 1/2	1.00	4	0.2 - 29.9	60	0.1 - 14.99	ELECTRIC	FAIL LAST	24
	CHILLED BEAM	CHW	CHARACTERIZED BALL	2-WAY	MODULATING	1/2 to 2 1/2	1.00	4	0.2 - 29.9	60	0.1 - 14.99	ELECTRIC	FAIL CLOSED	24



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4	P2 - ADDENDUM #5	02/28/19
5	P2 - ADDENDUM #6	03/27/19
6	P2 - PCO 048	11/26/19
7	DD ISSUANCE - NH	02/05/20
8	CD ISSUANCE - NH	04/14/20
9	ISSUE FOR BID & PERMIT	05/22/20

Drawn By
EJ
Checked By
DS
Client Number
514
Project Number
5350



DRAWING
TITLE
INSTRUMENTATION
EQUIPMENT
SCHEDULES

SHEET NO.
IC-950