

SHEET INDEX

- 00- GENERAL
 - G000 COVER SHEET
 - G200 CODE SUMMARY & LIFE SAFETY PLAN
- 03- ARCHITECTURAL
 - A000 GENERAL NOTES AND ABBREVIATIONS
 - A001 INTERIOR PARTITION TYPES & DETAILS
 - A002 TYPICAL ACCESSIBILITY DETAILS & MOUNTING HEIGHTS
 - A100 DEMOLITION PLAN- FOURTH FLOOR
 - A103 DEMOLITION REFLECTED CEILING PLAN- THIRD FLOOR
 - A104 DEMOLITION REFLECTED CEILING PLAN- FOURTH FLOOR
 - A114 DIMENSION PLAN- FOURTH FLOOR
 - A124 ARCHITECTURAL PLAN- FOURTH FLOOR
 - A134 REFLECTED CEILING PLAN- FOURTH FLOOR
 - A144 EQUIPMENT PLAN- FOURTH FLOOR
 - A500 OPENING SCHEDULE, ELEVATIONS, AND DETAILS
 - A600 INTERIOR ELEVATIONS
 - A661 INTERIOR DETAILS- MILLWORK
 - A700 CASEWORK SECTIONS
 - A800 INTERIOR DETAILS
- 03.1- INTERIORS
 - IF000 INTERIOR FINISH SPECIFICATIONS
 - IF120 INTERIOR FINISH PLAN- FOURTH FLOOR
- 04- FIRE PROTECTION:
 - FP000 FIRE PROTECTION SYMBOLS AND ABBREVIATIONS
 - FPD01 FIRE PROTECTION FOURTH FLOOR DEMOLITION PLAN
 - FP101 FIRE PROTECTION FOURTH FLOOR NEW WORK PLAN
- 05- PLUMBING
 - P000 PLUMBING SYMBOLS AND ABBREVIATIONS
 - PD100 PLUMBING THIRD FLOOR DEMOLITION PLAN
 - PD101 PLUMBING FOURTH FLOOR DEMOLITION PLAN
 - P100 PLUMBING THIRD FLOOR NEW WORK PLAN
 - P101 PLUMBING FOURTH FLOOR NEW WORK PLAN
 - P500 PLUMBING DETAILS AND SCHEDULES
- 06- MECHANICAL
 - M000 MECHANICAL SYMBOLS & ABBREVIATIONS
 - MD101 MECHANICAL FOURTH FLOOR DUCTWORK PLAN - DEMOLITION
 - MD201 MECHANICAL FOURTH FLOOR PIPING PLAN - DEMOLITION
 - M101 MECHANICAL FOURTH FLOOR DUCTWORK PLAN - NEW WORK
 - N201 MECHANICAL FOURTH FLOOR PIPING PLAN - NEW WORK
 - M500 DETAILS AND SCHEDULES
 - M700 TEMPERATURE CONTROLS
- 07- ELECTRICAL
 - E000 ELECTRICAL SYMBOLS & ABBREVIATIONS
 - ED101 ELECTRICAL FOURTH FLOOR DEMOLITION PLAN
 - ED102 LIGHTING FOURTH FLOOR DEMOLITION PLAN
 - E101 ELECTRICAL FOURTH FLOOR NEW WORK PLAN
 - E102 LIGHTING FOURTH FLOOR NEW WORK PLAN
 - E500 ELECTRICAL DETAILS & SCHEDULES
 - E501 ELECTRICAL PANEL SCHEDULES



DUMPSTER LOCATION



UNIVERSITY PHYSICIANS MEDICAL BUILDING (UPMB) - 4TH FLOOR - MOA CLINIC RENOVATION

MU PROJECT NO. - CP221944

AT THE UNIVERSITY OF MISSOURI
COLUMBIA, MO
FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI

BID SET

BSA

BSA LifeStructures
12645 Olive Blvd, Suite 227
Creve Coeur, MO 63141
ph 314.754.6306 fx 314.754.4452

BSA

BSA LifeStructures
12645 Olive Blvd, Suite 227
Creve Coeur, MO 63141
ph 314.754.6306 fx 314.754.4452

Ross & Baruzzini

MEP ENGINEERING:
Ross & Baruzzini
6 S Old Orchard Ave
St. Louis, MO 63119
ph 314.918.8383 www.rossbar.com

Timberlake
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A Custom Engineering Company

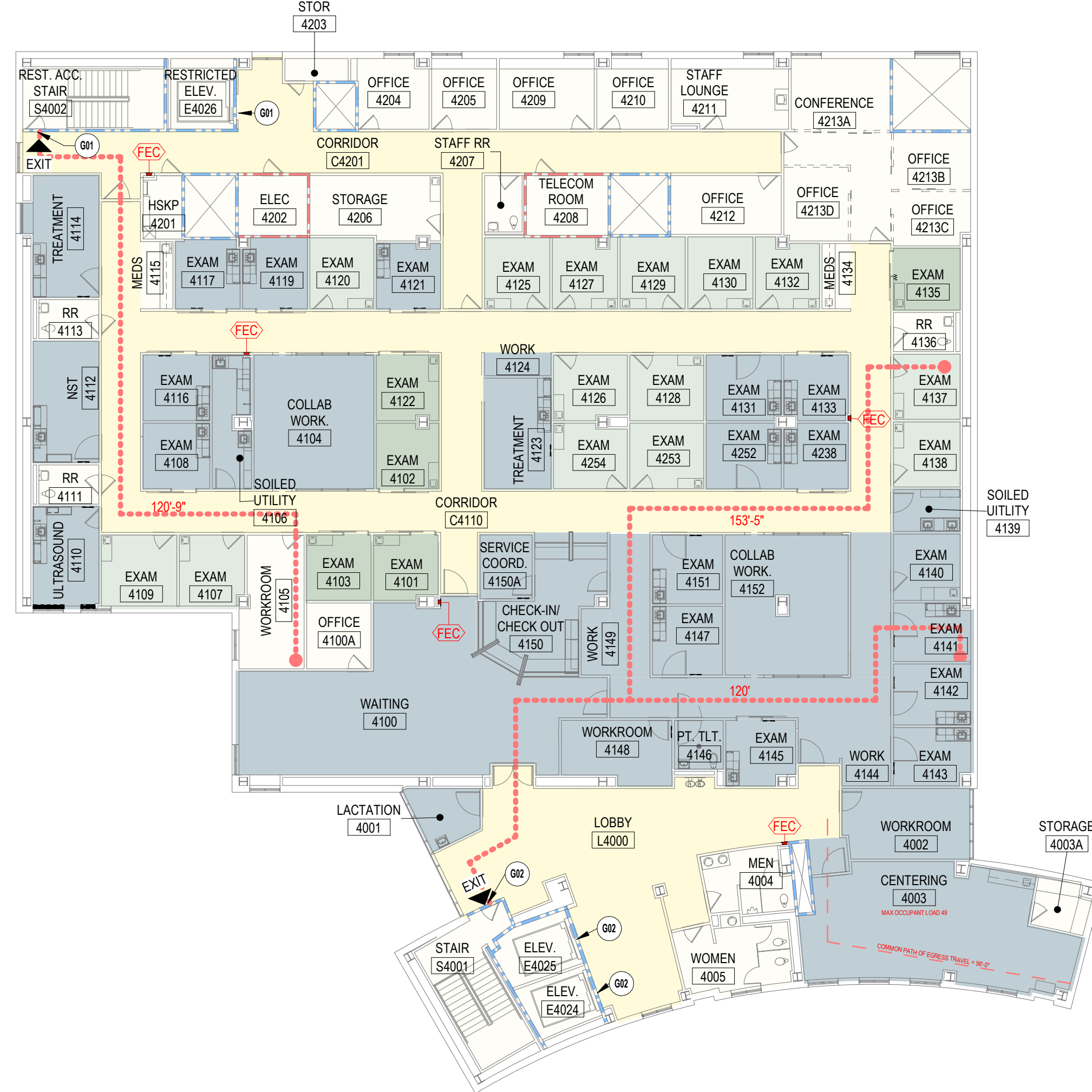
LIGHTING ENGINEERING:
Timberlake Engineering
912 Old Highway 63 South
Columbia, MO 65201
ph 573.875.4365 ext 209 www.customengr.com

BID SET
3 OCTOBER 2022

COVER SHEET

BSALS PROJECT NO. 14110005
DATE 3 OCTOBER 2022

G000



FOURTH FLOOR COMBINED SCOPE & LIFE SAFETY PLAN
1/16" = 1'-0"



PLUMBING FIXTURE COUNT (TABLE 2902.1)		
OCCUPANCY TYPE: BUSINESS		
REQUIREMENT	NUMBER REQUIRED	
172 OCCUPANT LOAD		
WATER CLOSETS	1 PER 25 FOR THE FIRST 50 AND 1 PER 50 FOR THE REMAINDER EXCEEDING 50	5
LAVATORIES	1 PER 40 FOR THE FIRST 80 AND 1 PER 80 FOR THE REMAINDER EXCEEDING 80	4
DRINKING FOUNTAINS	1 PER 100	2
SERVICE SINK	1 SERVICE SINK	1

CODE SUMMARY	
PROJECT INFORMATION:	
NAME:	UPMB 4TH FLOOR RENOVATION
ADDRESS:	1020 HITT ST., COLUMBIA, MO 65212
PROJECT DESCRIPTION:	FULL RENOVATION OF APPROX. -6,500 SF RENOVATION OF EXISTING 19,000 SF UPMB 4TH FLOOR IBC 2021 ALTERATION LEVEL 2
OWNER:	UNIVERSITY OF MISSOURI - UNIVERSITY PHYSICIANS MEDICAL BUILDING, FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI
DESIGN PROFESSIONAL:	
ARCHITECT:	BSA LIFESTRUCTURES
ADDRESS:	12645 OLIVE BLVD. SUITE 227
CONTACT:	NIYANTA GOPAL 913-622-9353 NGOPAL@BSALS.COM
CODE INFORMATION:	
2021	INTERNATIONAL BUILDING CODE (FOR LEVEL 1 LEVEL 2 ALTERATIONS ONLY WITH PREAPPROVAL FROM AHJ)
* University AHJ concluded it acceptable to classify the project as a IBC - Alteration Level 2 so long as the project defined scope gross square footage is less than 50% of the existing floor gross square footage, as recorded in MUPC Internal Meeting Notes with AHJ dated May 4, 2022.	
2021	INTERNATIONAL PLUMBING CODE
2021	INTERNATIONAL MECHANICAL CODE
2021	INTERNATIONAL FIRE CODE
2017	ICC 117.1 ACCESSIBLE NAD USABLE BUILDINGS AND FACILITIES
2020	NATIONAL ELECTRIC CODE/ NFPA 70
2019	NFPA 110 STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS
2012	NFPA 101 LIFE SAFETY CODE
2012	NFPA 99 STANDARD FOR HEALTH CARE FACILITIES
2018	NFPA 90A INSTALLATION OF AIR CONDITIONING AND VENTILATING SYSTEMS
2017	NFPA 75 STANDARD FOR THE FIRE PROTECTION OF INFORMATION TECHNOLOGY EQUIPMENT
2019	NFPA 72 NATIONAL FIRE ALARM CODE
2019	NFPA 518 STANDARD FOR FIRE PREVENTION DURING WELDING, CUTTING, AND OTHER HOT WORK
2019	NFPA 13 INSTALLATION OF FIRE SPRINKLER SYSTEMS
2019	ASHRAE 62.1 VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY (VENTILATION RATES FOR SPACES NOT FOUND IN ASHRAE STANDARD 170 OR THE HIGHER OF THE TWO AIR CHANGE RATES PRESCRIBED IN BOTH)
2019	ASHRAE 90.1 ENERGY STANDARD FOR BUILDINGS
2017	ASHRAE 170 VENTILATION OF HEALTH CARE FACILITIES
2018	ASME A17.1 - SAFETY CODE FOR ELEVATORS AND ESCALATORS
2010	AMERICANS WITH DISABILITIES ACT - STANDARDS FOR ACCESSIBLE DESIGN
2018	FACILITIES GUIDELINES INSTITUTE
BUILDING DATA:	
OCCUPANCY:	B
CONSTRUCTION TYPE:	IB
ALLOWABLE AREA:	UNLIMITED (19,000 SF EXISTING)
ALLOWABLE STORIES:	12 STORIES (4 STORIES EXISTING)
ALLOWABLE HEIGHT:	180 ft (52 ft EXISTING)
COMMON PATH OF EGRESS TRAVEL:	
B OCCUPANCY	100 FT
EXIT ACCESS TRAVEL DISTANCE:	
B OCCUPANCY	300 FT
EXIT CAPACITY:	
B OCCUPANCY	STAIRWAYS = 38 INCHES OTHER = 25 INCHES
CORRIDORS:	
MINIMUM WIDTH:	44"
DEAD END:	50"
FIRE EXTINGUISHERS:	
MAXIMUM TRAVEL DISTANCE:	75'
LIFE-SAFETY FEATURES:	
SPRINKLER SYSTEM THROUGH-OUT	
SMOKE DETECTORS & FIRE ALARM SYSTEM	
EMERGENCY LIGHTS- INVERTER BACKUP	
EXIT LIGHTS- INVERTER BACKUP	
FIRE RESISTANCE RATING REQUIREMENTS:	
STRUCTURAL FRAME:	2 HOURS - EXISTING
FLOOR CONSTRUCTION:	2 HOURS - EXISTING
ROOF CONSTRUCTION:	0 HOURS - EXISTING
SHAFT ENCLOSURE:	2 HOURS - EXISTING
STAIR CONSTRUCTION:	2 HOURS - EXISTING

LIFE-SAFETY SYMBOLS LEGEND	
XX	COLUMN LINE
ROOM	ROOM NAME DESIGNATION
000	ROOM NUMBER DESIGNATION
Ⓟ	PLAN NOTE DESIGNATION
EXIT	EXIT SYMBOL
(FEX)	FIRE EXTINGUISHER
(FEC)	FIRE EXTINGUISHER CABINET

PROJECT/SCOPE SF TABLE	
FOR REFERENCE ONLY	
ALTERATION LEVEL 2: FULL RENOVATION	6,887 SF
ALTERATION LEVEL 2: REPLACE DOOR + POWER & DATA MODIFICATIONS ONLY	483 SF
ALTERATION LEVEL 2: POWER & DATA MODIFICATIONS ONLY	1,583 SF
TOTAL ALTERATION LEVEL 2:	8,953 SF
NO ALTERATION: INCIDENTAL WORK ONLY	4,274 SF
NO ALTERATION: NO MODIFICATIONS	5,983 SF
TOTAL NO ALTERATION:	10,257 SF

WALL RATINGS	
1-HOUR RATED FIRE - (1HR)	
2-HOUR RATED FIRE - (2HR)	

KEYNOTE LEGEND	
REFER TO A000 FOR GENERAL NOTES	
G01	PROVIDE TEMPORARY CONSTRUCTION BARRIER FOR CONTRACTOR ACCESS AT THIS LOCATION PER INFECTION CONTROL SPECIFICATIONS.
G02	PROVIDE TEMPORARY CONSTRUCTION BARRIER TO RESTRICT PUBLIC ACCESS AT THIS LOCATION PER INFECTION CONTROL SPECIFICATIONS.

BSA

BSA LifeStructures
12645 Olive Blvd, Suite 227
Creve Coeur, MO 63141
ph 314.754.6306 fx 314.754.4452

Architectural Registration Number - 2003010309

Ross & Baruzzini

MEP ENGINEERING:
Ross & Baruzzini
6 S Old Orchard Ave
St. Louis, MO 63119
ph 314.918.8383 www.rossbar.com
Missouri State Certificate of Authority #000148

Timberlake ENGINEERING

A Custom Engineering Company
LIGHTING ENGINEERING:
Timberlake Engineering
912 Old Highway 63 South
Columbia, MO 65201
ph 573.875.4365 ext 209 www.customengr.com
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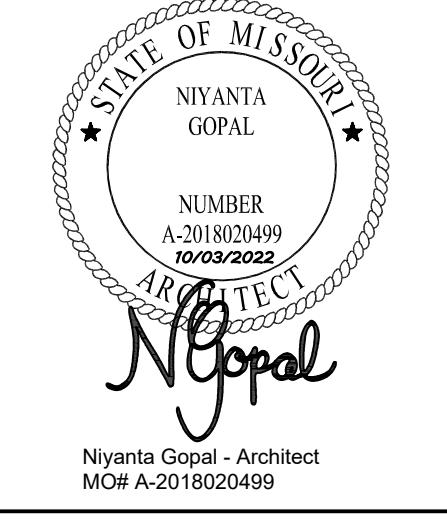
Health Care

MU PROJECT NO. - CP221944
UNIVERSITY PHYSICIANS MEDICAL BUILDING (UPMB) - 4TH FLOOR - MOA CLINIC RENOVATION
1020 Hitt St, Columbia, MO 65212

BID SET

MARK	DATE	DESCRIPTION
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I hereby certify these drawings and/or specifications have been prepared by me, or under my supervision, I further certify that to the best of my knowledge these drawings and/or specifications are as required by and in compliance with the Building Codes of the University of Missouri.



CODE SUMMARY & LIFE SAFETY PLAN

- THIS SHEET SHALL BE PRINTED IN COLOR -

DATE	3 OCTOBER 2022
BSALS PROJECT NO.	1411005

G200

9/29/2022 11:24:55 AM
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 User: Niyanta Gopal
 APPROVED: Niyanta Gopal



BSA LifeStructures
12645 Olive Blvd, Suite 227
Creve Coeur, MO 63141
ph 314.754.6306 fx 314.754.4452

Architectural Registration Number - 2003010309



MEP ENGINEERING:
Ross & Baruzzini
6 S Old Orchard Ave
St. Louis, MO 63119
ph 314.918.8383 www.rossbar.com
Missouri State Certificate of Authority #000298



LIGHTING ENGINEERING:
Timberlake Engineering
912 Old Highway 63 South
Columbia, MO 65201
ph 573.875.4365 ext 209 www.customengr.com
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MU PROJECT NO. - CP221944
**UNIVERSITY PHYSICIANS
MEDICAL BUILDING
(UPMB) - 4TH FLOOR -
MOA CLINIC RENOVATION**
1020 Hitt St, Columbia, MO 65212

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Niyanta Gopal - Architect
MOW A-201920499

**GENERAL NOTES AND
ABBREVIATIONS**

DATE 3 OCTOBER 2022
BSALS PROJECT NO. 14110005

A000

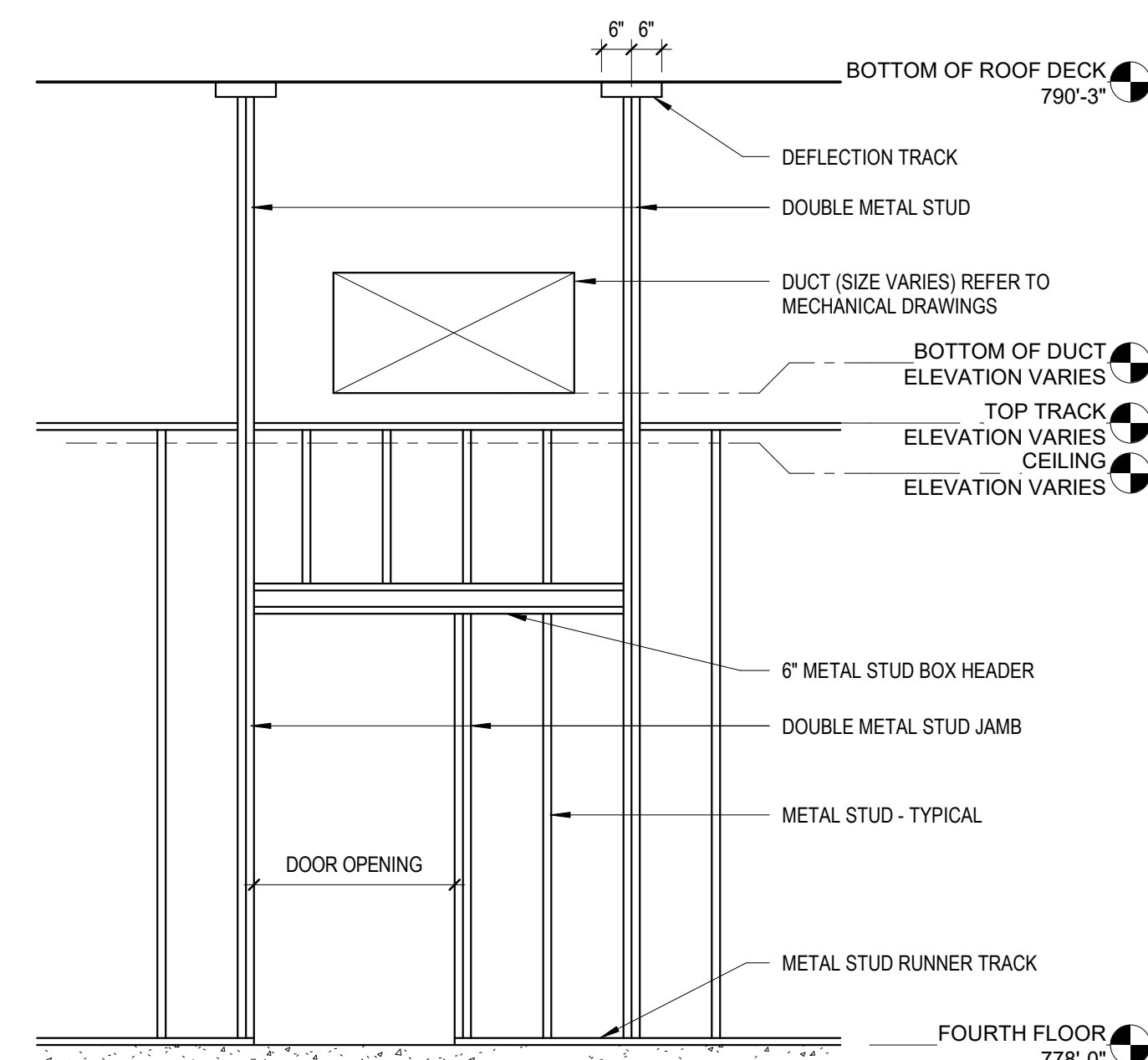
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ABBREVIATIONS	
NOTE: NOT ALL ABBREVIATIONS USED ON PROJECT	
A	<p>A/E ARCHITECT/ENGINEER ACT ACOUSTICAL CEILING TILE ADA AMERICANS WITH DISABILITIES ACT ADH ADHESIVE ADJ ADJACENT AF ACCESS FLOORING AFF ABOVE FINISH FLOOR AHU AIR HANDLING UNIT ALT ALTERNATE ALUM ALUMINUM ANOD ANODIZED APPROX APPROXIMATE(LY) ARCH ARCHITECT(URAL) AUTO AUTOMATIC</p>
B	<p>BL BLINDS BTDG BUILDING BLKHD BULKHEAD BO BY OTHERS BOT BOTTOM BR BUMP RAIL BSMT BASEMENT B/TWN BETWEEN</p>
C	<p>CC CURTICLE CURTAIN CF/CI CONTRACTOR FURNISHED/CONTRACTOR INSTALLED CF/OI CONTRACTOR FURNISHED/OWNER INSTALLED CF/VI CONTRACTOR FURNISHED/VEENDOR INSTALLED CG CORNER GUARD CJ CONTROL JOINT CL CENTER LINE CLG CEILING CLR CLEARANCE CMU CONCRETE MASONRY UNIT COL COLUMN CONC CONCRETE CONST CONSTRUCTION CONT CONTINUOUS COORD COORDINATE CORR CORRIDOR CPT CARPET CR CARD READER CS CAST STONE OR CULTURED STONE CT CERAMIC TILE CTB CERAMIC TILE BASE CTR CENTER CURT CURTAIN CW/T CERAMIC WALL TILE</p>
D	<p>D DEPTH (DEEP) DAFS DIRECT APPLIED FINISH SYSTEM DEMO DEMOLITION DEPT DEPARTMENT DF DRINKING FOUNTAIN DG DECORATIVE GLASS DIA DIAMETER DIG DIAGONAL DIM DIMENSION DISP DISPENSER DN DOWN DP DECORATIVE PANEL DR DOOR DTL DETAIL DWG DRAWING DWGS DRAWINGS</p>
E	<p>E EAST EA EACH ECT ET CETERA (AND SO FORTH) EIFS EXTERIOR INSULATION AND FINISH SYSTEM EJ ELEVATION JOINT EL ELEVATION ELEC ELECTRICAL ELEV ELEVATOR EMER EMERGENCY ENGR ENGINEER EOS EDGE OF SLAB EP EPOXY PAINT EPO EMERGENCY POWER OFF EQ EQUAL EQUIP EQUIPMENT ETR EXISTING TO REMAIN EW ELECTRIC WATER COOLER EWS EYE WASH STATION EXH EXHAUST EXIST EXISTING EXT EXTERIOR</p>
F	<p>FD FLOOR DRAIN FDTN FOUNDATION FE FIRE EXTINGUISHER FEC FIRE EXTINGUISHER CABINET FF FINISH FACE FIXT FIXTURE FLR FLOOR FP FIREPROOF FRP FIBER REINFORCED PANEL FRMG FRAMING FSTNR FASTENER FT FOOT (FEET) FTG FOOTING FURN FURNITURE FWC FABRIC WALLCOVERING</p>
G	<p>GA GAUGE GALV GALVANIZED GC GENERAL CONTRACTOR GL GLASS GLT GLASS TILE GLZ GLAZING GYP GYPSUM GYP BD GYPSUM BOARD</p>
H	<p>H HIGH HAZ HAZARD HCP HANDICAPPED HDW HARDWARE HM HOLLOW METAL HO HOLD OPEN HORIZ HORIZONTAL HR HOUR(S) [FIRE RESISTANCE RATING] HSPKG HOUSEKEEPING HT HEIGHT</p>
I	<p>IBC INTERNATIONAL BUILDING CODE ID IDENTIFICATION IDEN IDENTIFICATION INF INFORMATION INSUL INSULATION INT INTERIOR</p>
L	<p>LAV LAVATORY LBS POUNDS LED LIGHT EMITTING DIODE LF LINOLEUM FLOORING LL LEAD LINED LVT LUXURY VINYL TILE LWC LIGHTWEIGHT CONCRETE</p>
M	<p>MATL MATERIAL MAX MAXIMUM MB MARKER BOARD MECH MECHANICAL MEP MECHANICAL, ELECTRICAL AND PLUMBING MFD MANUFACTURED MFG MANUFACTURING MFR MANUFACTURER MIN MINIMUM MISC MISCELLANEOUS MO MASONRY OPENING MT MOUNTED MTD MOUNTED MTL METAL</p>
N	<p>N NORTH NOM NOMINAL NTS NOT TO SCALE</p>
O	<p>O ON CENTER OC OUTSIDE DIAMETER (DIMENSION) OF/CI OWNER FURNISHED/CONTRACTOR INSTALLED OF/OI OWNER FURNISHED/OWNER INSTALLED OF/VI OWNER FURNISHED/VEENDOR INSTALLED OH OPPOSITE HAND OH DR OVERHEAD (COILING) DOOR OPNG OPENING OPP OPPOSITE OR OPERATING ROOM ORIG ORIGINAL OVHD OVERHEAD</p>
P	<p>P PAIN PB PUSH BUTTON PERF PERFORATED PL PROPERTY LINE PLAM PLASTIC LAMINATE PLBG PLUMBING PLYWD PLYWOOD PNE PAINT OR PATH TO MATCH EXISTING PNEU PNEUMATIC PP PUSH/PULL (PUSH PAD) PR PAIR PREFAB PREFABRICATE PREP PREPARATION PREV PREVIOUS PSI POUNDS PER SQUARE INCH PT PORCELAIN TILE PTB PORCELAIN TILE BASE PTN PARTITION PWR POWER</p>
Q	<p>QT QUARRY TILE QTY QUANTITY QZ QUARTZ SURFACE</p>
R	<p>RB RESILIENT BASE REST RESTROOM RCPTN RECEPTION RD ROOF DRAIN REBAR REINFORCING STEEL BARS REC RECESSED RECP RECEPTACLE REF REFERENCE (REFER TO) REG REINFORCEMENT REIN REINFORCED REQD REQUIRED REST RESTROOM REV REVISION RF RUBBER FLOORING RFL RECESS FOR INFORMATION RM ROOM RO ROUGH OPENING RSLR ROLLER SHAFT RST RUBBER STAIR TREAD</p>
S	<p>S SOUTH SC SEALED CONCRETE SCWD SOLID CORE WOOD DOOR SUT STATIC DISSIPATIVE TILE SQT SQUARE FOOT (FEET) SGD SLIDING GLASS DOOR SQL SINGLE SHWR SHOWER SIM SIMILAR SPEC SPECIFICATION SPEKR SPEAKER SQ SQUARE SS SOLID SURFACE SST STAINLESS STEEL STD SOUND TRANSMISSION CLASS STND STANDARD STL STEEL STOR STORAGE STRUCT STRUCTURE(AL) SUB SUBSTITUTE SV SHEET VINYL</p>
T	<p>T TOP OF TA TOUCHLESS ACTUATOR TB TACKBOARD TEL TELEPHONE TEMP TEMPORARY (TEMPERATURE) TF TACKABLE FABRIC THK THICKNESS THRU THROUGH TCC TOP OF CONCRETE TOS TOP OF STEEL TS TUBE STEEL TSTAT THERMOSTAT TV TELEVISION TYP TYPICAL TZ TERRAZZO TZB TERRAZZO BASE</p>
U	<p>UBC UNIFORM BUILDING CODE UL UNDERWRITERS LABORATORIES UNO UNLESS NOTED OTHERWISE UTIL UTILITY</p>
V	<p>V VARIES VB VINYL BASE VCT VINYL COMPOSITION TILE VERT VERTICAL VEST VESTIBULE VEF VINYL ENHANCED TILE VEF VERTY IN FIELD VWC VINYL WALL COVERING</p>
W	<p>W WEST (WIDE) W WITH WO WITHOUT WOOD WOOD WOW WINDOW WF WIDE FLANGE WM WALL-OFF MAT WP WALL PROTECTION WPT WORKING POINT WR WEATHER RESISTANT WT WEIGHT WW WOOD VENEER WALLCOVERING WWF WELDED WIRE FABRIC</p>

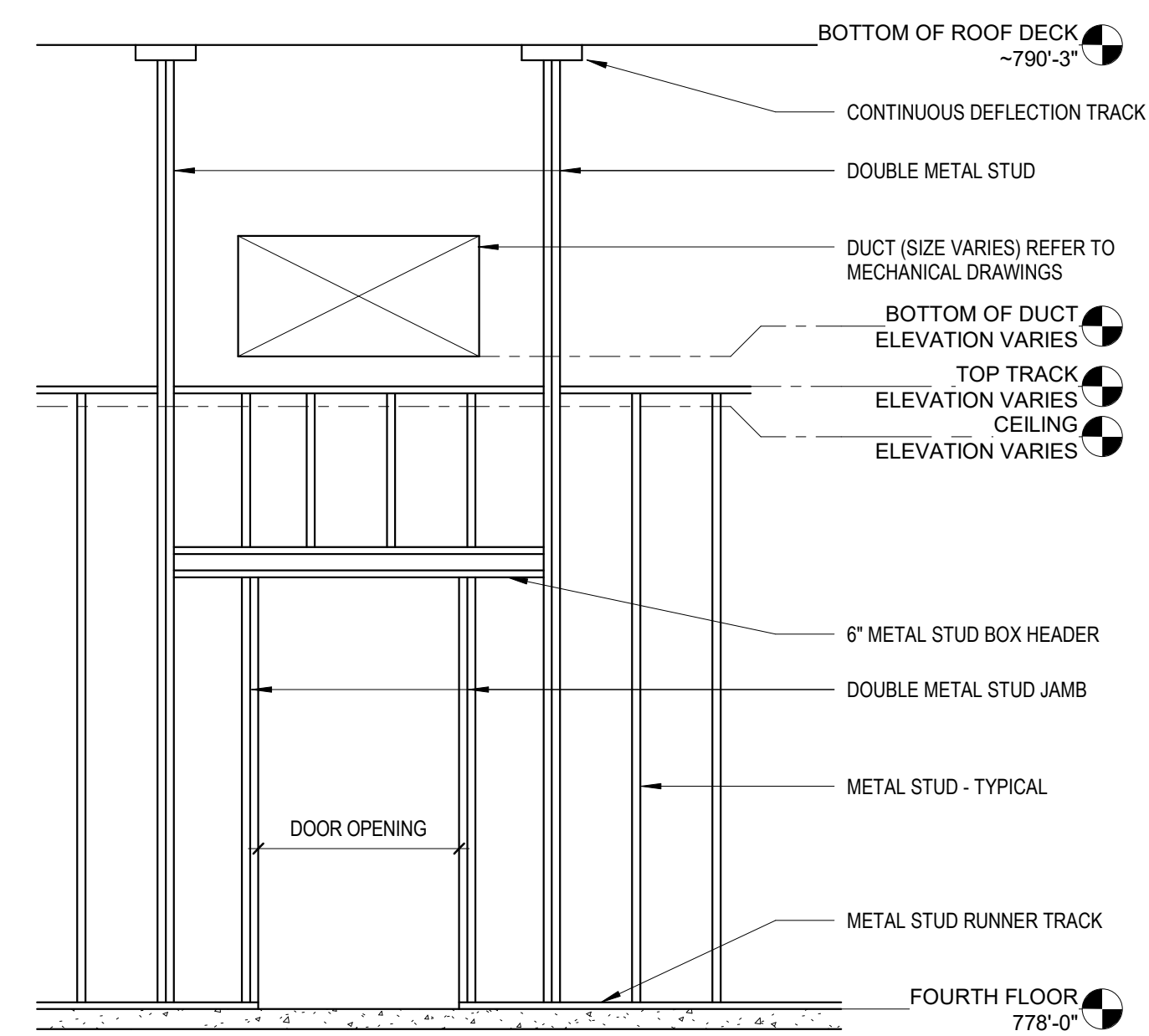
ARCHITECTURAL SYMBOLS LEGEND	
GENERAL SYMBOLS	
	COLUMN LINE
	SECTION INDICATOR
	AREA OF DETAIL
	DETAIL INDICATOR
	DETAIL NUMBER
	SIMILAR
	SHEET NUMBER
	ELEVATION TAG
	ROOM NAME DESIGNATION
	ROOM NUMBER DESIGNATION
	PLAN NOTE DESIGNATION
DEMOLITION SYMBOLS	
	EXISTING WALL TO REMAIN
	EXISTING WALL TO BE REMOVED
	EXISTING DOOR AND FRAME TO REMAIN
	EXISTING DOOR, FRAME, AND HARDWARE TO BE REMOVED
	EXISTING WINDOW AND FRAME TO REMAIN
	EXISTING WINDOW AND FRAME TO BE REMOVED
DEMO CEILING SYMBOLS	
	REMOVE SUSPENDED LAY-IN CEILING SYSTEM
	ROOM NUMBER
	REMOVE LIGHTING FIXTURE
	REMOVE RECESSED "CAN" LIGHT FIXTURE OR PENDANT
	REMOVE RETURN AIR GRILLE
	REMOVE EXHAUST AIR GRILLE
	REMOVE SUPPLY AIR GRILLE
	REMOVE GYPSUM WALLBOARD BULKHEAD/CEILING
NEW CONSTRUCTION SYMBOLS	
	EXIT SYMBOL
	FLOOR DRAIN
	FIRE EXTINGUISHER AND CABINET
	FIRE EXTINGUISHER
	EQUIPMENT DESIGNATION. REFER TO EQUIPMENT SCHEDULE.
	TOILET ACCESSORY
	WALL TYPE
	WALL TYPE SUFFIX
	DOOR NUMBER DESIGNATION
	CARD READER FOR ELECTRIC DOOR LATCH
	TOUCHLESS ACTUATOR
	REMOTE RELEASE
	NEW WALL
	NEW DOOR
	DOOR WITH AUTOMATIC DOOR OPERATOR
CEILING SYMBOLS	
	SUSPENDED LAY-IN CEILING SYSTEM
	ROOM NUMBER
	ACOUSTICAL CEILING TILE - TYPE
	CEILING HEIGHT ABOVE FINISH FLOOR
	RECESSED "CAN" LIGHT FIXTURE OR PENDANT
	CEILING MOUNTED EXIT LIGHT
	CUBICLE CURTAIN TRACK AND CURTAIN
	2x4 LIGHTING FIXTURE
	2x2 LIGHTING FIXTURE
	1x4 LIGHTING FIXTURE
	RETURN AIR GRILLE
	EXHAUST AIR GRILLE
	SUPPLY AIR GRILLE
	GYPSUM CONTROL JOINT
	ACCESS PANEL
	GYPSUM WALLBOARD BULKHEAD/CEILING

GENERAL REFLECTED CEILING NOTES	
A.	ALL LAY-IN ACOUSTICAL CEILINGS SHALL BE INSTALLED AT 8'-0" ABOVE FINISH FLOOR, UNLESS INDICATED OTHERWISE.
B.	ALL LAY-IN ACOUSTICAL TILE SHALL BE TYPE ACT1, UNLESS OTHERWISE INDICATED.
C.	ALL GYPSUM BOARD BULKHEADS SHALL BE INSTALLED AT 7'-10" ABOVE FINISH FLOOR, UNLESS NOTED OTHERWISE.
D.	REFER TO A800 FOR TYPICAL BULKHEAD DETAIL.
E.	REFER TO A800 FOR TYPICAL CUBICLE CURTAIN TRACK DETAIL.
F.	INSTALL CONTROL JOINTS IN GYPSUM BOARD WALLS, CEILINGS AND BULKHEADS AS INDICATED ON THE DIMENSION PLANS, REFLECTED CEILING PLANS, INTERIOR ELEVATIONS AND AS INDICATED IN THE SPECIFICATIONS.
G.	FIRE RATED WALLS SHALL EXTEND FROM FLOOR TO STRUCTURE ABOVE.
H.	ALL CEILINGS SHALL BE CENTERED WITHIN THE ROOM UNLESS INDICATED OTHERWISE.
I.	ALL LIGHTING FIXTURES, MECHANICAL DIFFUSERS AND GRILLES, ET CETERA ARE SHOWN ON REFLECTED CEILING PLANS FOR REFERENCE ONLY. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.
GENERAL INTERIOR ELEVATION NOTES	
A.	REFER TO FLOOR PLANS AND THE EQUIPMENT SCHEDULE FOR EQUIPMENT. COORDINATE CONNECTIONS. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
B.	REFER TO PLUMBING DRAWINGS FOR LAVATORIES AND SINK TYPES.
C.	ALL DIMENSIONS ARE TAKEN TO THE FACE OF FINISHED MATERIAL UNLESS OTHERWISE INDICATED.
D.	FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OF CABINETRY.
E.	CONSTRUCT GYPSUM BOARD BULKHEADS ABOVE UPPER CABINETRY TO BE 1" DEEPER AND LONGER THAN CABINETRY BELOW UNLESS INDICATED OTHERWISE.
F.	COORDINATE ALL WALL DEVICES TO AVOID CONFLICT WITH CASEWORK AND COUNTERTOPS.
G.	COORDINATE SUPPORT BRACKET LOCATIONS WITH UNDER COUNTER EQUIPMENT INDICATED ELSEWHERE IN CONTRACT DOCUMENTS.
H.	ALL BASE CABINETS SHALL BE 2'-0" DEEP UNLESS NOTED OTHERWISE.
I.	ALL CASEWORK SHALL BE FINISHED IN PLASTIC LAMINATE UNLESS NOTED OTHERWISE.
J.	PROVIDE 1" MINIMUM FILLER PANELS AT ALL LOCATIONS WHERE CABINETRY ABUTS A WALL.
K.	PROVIDE A 4" HIGH INTEGRAL BACK SPLASH ON ALL COUNTERTOPS WITH RECESSED SINKS. INSTALL SIDE/END SPLASHES WHERE THESE COUNTERTOPS ABUT A WALL.
L.	PROVIDE ADJUSTABLE SHELVING WITHIN ALL WALL AND BASE CABINETRY AS SHOWN BY DASHED LINE.
M.	BOTTOM OF UPPER CABINETS TO BE FINISHED TO MATCH VERTICAL FACES.
N.	PROVIDE 12" CLEAR INTERIOR DIMENSION ON ALL UPPER WALL CABINETS UNLESS NOTED OTHERWISE.
O.	ALL CABINET CASEWORK PULLS TO BE U-SHAPED WIRE PULLS, 4" CENTERS, UNLESS NOTED OTHERWISE.
GENERAL DIMENSION NOTES	
A.	ALL DIMENSIONS ARE TO FACE OF GYPSUM BOARD, FACE OF MASONRY OR CONCRETE, OR TO FACE OF EXISTING WALL. FINISH UNLESS NOTED OTHERWISE.
B.	INSTALL CONTROL JOINTS IN GYPSUM BOARD WALLS, CEILINGS AND BULKHEADS AS INDICATED ON THE DIMENSION PLANS, REFLECTED CEILING PLANS, INTERIOR ELEVATIONS AND AS INDICATED IN THE SPECIFICATIONS. CONSULT ARCHITECT FOR LOCATIONS IF NOT INDICATED.
C.	THE DIMENSION PLANS ARE INTENDED TO SHOW DIMENSIONS, WALL RATINGS, WALL TYPES AND DOOR AND WINDOW LOCATIONS ONLY. PROVIDE 1" MINIMUM ADA REQUIRED CLEARANCE ADJACENT TO STRIKE OF DOOR ON SWING SIDE OF DOOR. PROVIDE 12" MINIMUM ON OPPOSITE SIDE OF DOOR.
D.	REFER TO MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR SIZES AND LOCATIONS OF EQUIPMENT PADS. COORDINATE SLAB CONSTRUCTION WITH MECHANICAL AND STRUCTURAL.
E.	DOCK OR ROOF STRUCTURE ABOVE SHALL BE DIAGONALLY BRACED AT 10'-0" MAXIMUM ON CENTER FROM TOP OF WALL TO DECK OR ROOF STRUCTURE ABOVE.
F.	PROVIDE FULL HEIGHT STRUCTURAL STUDS TO THE STRUCTURE ABOVE AT ALL CORNERS, AT DOOR AND BORROWED LIGHT FRAMES, AND JAMBS.
G.	REFER TO STRUCTURAL DRAWINGS FOR MASONRY REINFORCEMENT.
H.	ALL INTERIOR WALLS SHALL BE TYPE 'B3.1' UNLESS NOTED OTHERWISE. ALL COLUMN SURROUNDS SHALL BE WALL TYPE 'A2.1' UNLESS NOTED OTHERWISE.
I.	INSTALL CONTROL JOINTS IN GYPSUM BOARD WALLS, CEILINGS AND BULKHEADS AS INDICATED ON THE DIMENSION, REFLECTED CEILING PLANS, INTERIOR ELEVATIONS AND PER SPECIFICATION DIVISION 09.
J.	ALL STUDS SHALL BE AT 16" O.C. UNLESS NOTED OTHERWISE.
K.	SHaft WALL STUDS SHALL BE AT 24" O.C. UNLESS NOTED OTHERWISE.
L.	UNLESS NOTED OTHERWISE, PROVIDE WATER RESISTANT GYPSUM BOARD AT ALL WALLS COMMON TO WATER CLOSETS, URINALS, LAVATORIES, SINKS AND SHAFTS.
N.	WHERE RATED WALLS ARE INDICATED, ENTIRE WALL ASSEMBLY SHALL BE CONTINUOUS AS SHOWN OR IMPLIED ON THE CONTRACT DOCUMENTS. WHERE PENETRATIONS THROUGH RATED WALL PARTITIONS ARE REMOVED, PATCH AND REPAIR SUCH WALLS TO MAINTAIN THE RATING. REFER TO MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR FURTHER COORDINATION.
O.	SMOKE AND FIRE RATED WALLS SHALL BE CONTINUOUS THROUGH AND ABOVE DOOR AND WINDOW OPENINGS.
P.	FURNISH AND INSTALL FIRE STOP SEALANT WHERE GYPSUM WALL BOARD MEETS FIREPROOFING ON COLUMNS, BEAMS, AND METAL DECK AT FIRE RATED PARTITIONS.
Q.	WHERE GYPSUM BOARD COLUMN SURROUNDS ARE ADJACENT TO CASEWORK, THE DEPTH OF THE COLUMN SURROUND SHALL EXTEND 1" BEYOND FACE OF CASEWORK OR EDGE OF COUNTERTOP.
R.	VERIFY FINAL LOCATION OF PUSH PADS, CARD READERS AND TOUCHLESS ACTUATORS WITH OWNER BEFORE INSTALLATION. PROVIDE WOOD BLOCKING AT WALL STUDS TO SUPPORT GRAB BARS, HANDRAILS, DOOR STOPS AND TOILET PARTITIONS.
GENERAL ARCHITECTURAL NOTES	
A.	REFER TO THE EQUIPMENT SCHEDULE ON SHEET A144 FOR EQUIPMENT INFORMATION. COORDINATE BLOCKING AND MECHANICAL, ELECTRICAL AND PLUMBING CONNECTIONS AS REQUIRED.
B.	VERIFY WITH OWNER REQUIREMENTS FOR ALL EQUIPMENT (MOUNTING HEIGHTS, LOCATIONS AND SIZES) INCLUDING ALL OWNER FURNISHED OWNER INSTALLED ITEMS.
C.	INSTALL STEEL BACKINGS, 20 GAUGE, AT ANY WALL HUNG ITEMS EXCEEDING 20 POUNDS.
D.	REFER TO THE DIMENSION PLAN FOR ADDITIONAL INFORMATION REGARDING WALL AND OPENING CONSTRUCTION.
E.	REFER TO MECHANICAL, ELECTRICAL AND PLUMBING PLANS FOR ADDITIONAL INFORMATION.
F.	VERIFY EXISTING CONDITIONS PRIOR TO ANY FABRICATION OR CONSTRUCTION. IF EXISTING CONDITIONS ARE DIFFERENT THAN SHOWN, NOTIFY ARCHITECT/ENGINEER IMMEDIATELY.
G.	LOOSE FURNITURE, SHOWN HALF ONE & DASHED, IS SHOWN IS FOR REFERENCE PURPOSES ONLY AND IS OWNER FURNISHED AND INSTALLED.
GENERAL FRAME ELEVATION NOTES	
A.	FRAME TYPES: HM = HOLLOW METAL, SF = STOREFRONT, CW = CURTAIN WALL, AG = ALL GLASS, SSF = SPECIALTY STOREFRONT, FSF = FIRE-RATED STOREFRONT.
B.	REFER TO DIVISION 08 IN THE PROJECT MANUAL FOR ALL FRAME PANEL TYPE DESIGNATIONS.
C.	ALL HOLLOW METAL SYSTEMS TO BE 2" TALL (FACE FRAME) x 5 1/4" DEEP UNITS U.N.O.
D.	SEE SHEET A500 FOR DETAIL SETS.
E.	FRAME MANUFACTURER TO VERIFY IN FIELD ACTUAL CONDITIONS PRIOR TO FRAME MANUFACTURE AND INSTALLATION.
F.	MULLION LOCATIONS ARE INDICATED TO THE CENTERLINE OF THE MULLION U.N.O.
G.	ALL FRAME ELEVATIONS ARE SHOWN AS SEEN FROM THE PUBLIC APPROACH SIDE OF FRAME.

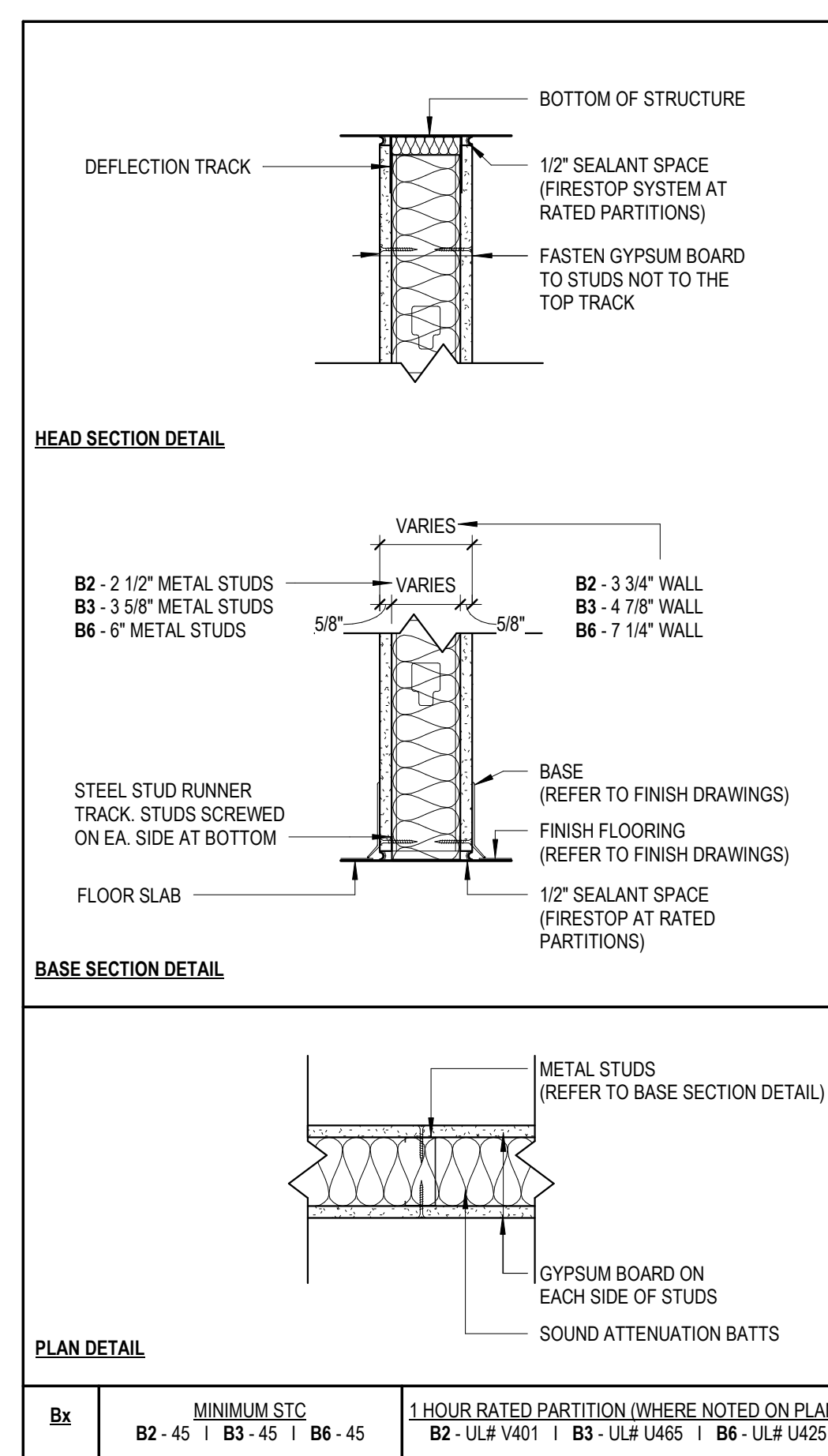
GENERAL DEMOLITION NOTES	
A.	ALL ITEMS SHOWN IN A BOLD DASHED LINE AND NOT OTHERWISE CALLED OUT, INDICATE EXISTING ITEMS OR WALLS TO BE DEMOLISHED. REMOVE SUCH ITEMS TOTALLY AND COMPLETELY.
B.	REMOVE ALL EXISTING WALL MOUNTED ITEMS WITHIN THE PROJECT UNIT AREA WHICH ARE NOT NOTED TO REMAIN. DISPOSE OF THESE ITEMS AFTER INSPECTION BY THE OWNER DETERMINES THEY ARE NOT TO BE SALVAGED. IF ITEMS ARE REMOVED FROM WALLS THAT OPEN TO REMAIN, PATCH WALLS AS REQUIRED TO RECEIVE NEW FINISHES AND/OR SURFACES.
C.	REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR ANY ADDITIONAL DEMOLITION INFORMATION.
D.	REMOVE EXISTING CEILING FINISHES, INCLUDING BULKHEADS, AS APPLICABLE IN ALL AREAS WITHIN THE PROJECT LIMITS THAT ARE SCHEDULED TO RECEIVE NEW CEILINGS.
E.	REMOVE DRYWALL AS REQUIRED FOR NEW ELECTRICAL AND DATA BOXES PER MEP.
F.	MAINTAIN ALL EXISTING FIREPROOFING.
G.	AS REQUIRED BY MEP, TEMPORARY EXISTING CEILING REMOVAL MAY OCCUR. COORDINATE AND MINIMIZE EXTENT WITH SCOPE OF MEP DRAWINGS. ALL CEILINGS EXISTING CONDITIONS TO BE MAINTAINED. PATCH/PAINT GYP. BD. CEILINGS AS REQUIRED, REPLACE DAMAGED TILES & GRID AS REQUIRED. PROTECT ALL LIGHT FIXTURES AND DIFFUSERS.
GENERAL DIMENSION NOTES	
A.	ALL DIMENSIONS ARE TO FACE OF GYPSUM BOARD, FACE OF MASONRY OR CONCRETE, OR TO FACE OF EXISTING WALL. FINISH UNLESS NOTED OTHERWISE.
B.	INSTALL CONTROL JOINTS IN GYPSUM BOARD WALLS, CEILINGS AND BULKHEADS AS INDICATED ON THE DIMENSION PLANS, REFLECTED CEILING PLANS, INTERIOR ELEVATIONS AND AS INDICATED IN THE SPECIFICATIONS. CONSULT ARCHITECT FOR LOCATIONS IF NOT INDICATED.
C.	THE DIMENSION PLANS ARE INTENDED TO SHOW DIMENSIONS, WALL RATINGS, WALL TYPES AND DOOR AND WINDOW LOCATIONS ONLY. PROVIDE 1" MINIMUM ADA REQUIRED CLEARANCE ADJACENT TO STRIKE OF DOOR ON SWING SIDE OF DOOR. PROVIDE 12" MINIMUM ON OPPOSITE SIDE OF DOOR.
D.	REFER TO MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR SIZES AND LOCATIONS OF EQUIPMENT PADS. COORDINATE SLAB CONSTRUCTION WITH MECHANICAL AND STRUCTURAL.
E.	DOCK OR ROOF STRUCTURE ABOVE SHALL BE DIAGONALLY BRACED AT 10'-0" MAXIMUM ON CENTER FROM TOP OF WALL TO DECK OR ROOF STRUCTURE ABOVE.
F.	PROVIDE FULL HEIGHT STRUCTURAL STUDS TO THE STRUCTURE ABOVE AT ALL CORNERS, AT DOOR AND BORROWED LIGHT FRAMES, AND JAMBS.
G.	REFER TO STRUCTURAL DRAWINGS FOR MASONRY REINFORCEMENT.
H.	ALL INTERIOR WALLS SHALL BE TYPE 'B3.1' UNLESS NOTED OTHERWISE. ALL COLUMN SURROUNDS SHALL BE WALL TYPE 'A2.1' UNLESS NOTED OTHERWISE.
I.	INSTALL CONTROL JOINTS IN GYPSUM BOARD WALLS, CEILINGS AND BULKHEADS AS INDICATED ON THE DIMENSION, REFLECTED CEILING PLANS, INTERIOR ELEVATIONS AND PER SPECIFICATION DIVISION 09.
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O.	SMOKE AND FIRE RATED WALLS SHALL BE CONTINUOUS THROUGH AND ABOVE DOOR AND WINDOW OPENINGS.
P.	FURNISH AND INSTALL FIRE STOP SEALANT WHERE GYPSUM WALL BOARD MEETS FIREPROOFING ON COLUMNS, BEAMS, AND METAL DECK AT FIRE RATED PARTITIONS.
Q.	WHERE GYPSUM BOARD COLUMN SURROUNDS ARE ADJACENT TO CASEWORK, THE DEPTH OF THE COLUMN SURROUND SHALL EXTEND 1" BEYOND FACE OF CASEWORK OR EDGE OF COUNTERTOP.
R.	VERIFY FINAL LOCATION OF PUSH PADS, CARD READERS AND TOUCHLESS ACTUATORS WITH OWNER BEFORE INSTALLATION. PROVIDE WOOD BLOCKING AT WALL STUDS TO SUPPORT GRAB BARS, HANDRAILS, DOOR STOPS AND TOILET PARTITIONS.
GENERAL ARCHITECTURAL NOTES	
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B.	VERIFY WITH OWNER REQUIREMENTS FOR ALL EQUIPMENT (MOUNTING HEIGHTS, LOCATIONS AND SIZES) INCLUDING ALL OWNER FURNISHED OWNER INSTALLED ITEMS.
C.	INSTALL STEEL BACKINGS, 20 GAUGE, AT ANY WALL



7 WALL - DUCTWORK PARTIALLY ABOVE OPENING AT NON-FULL HEIGHT WALL - ELEVATION
3/8" = 1'-0"

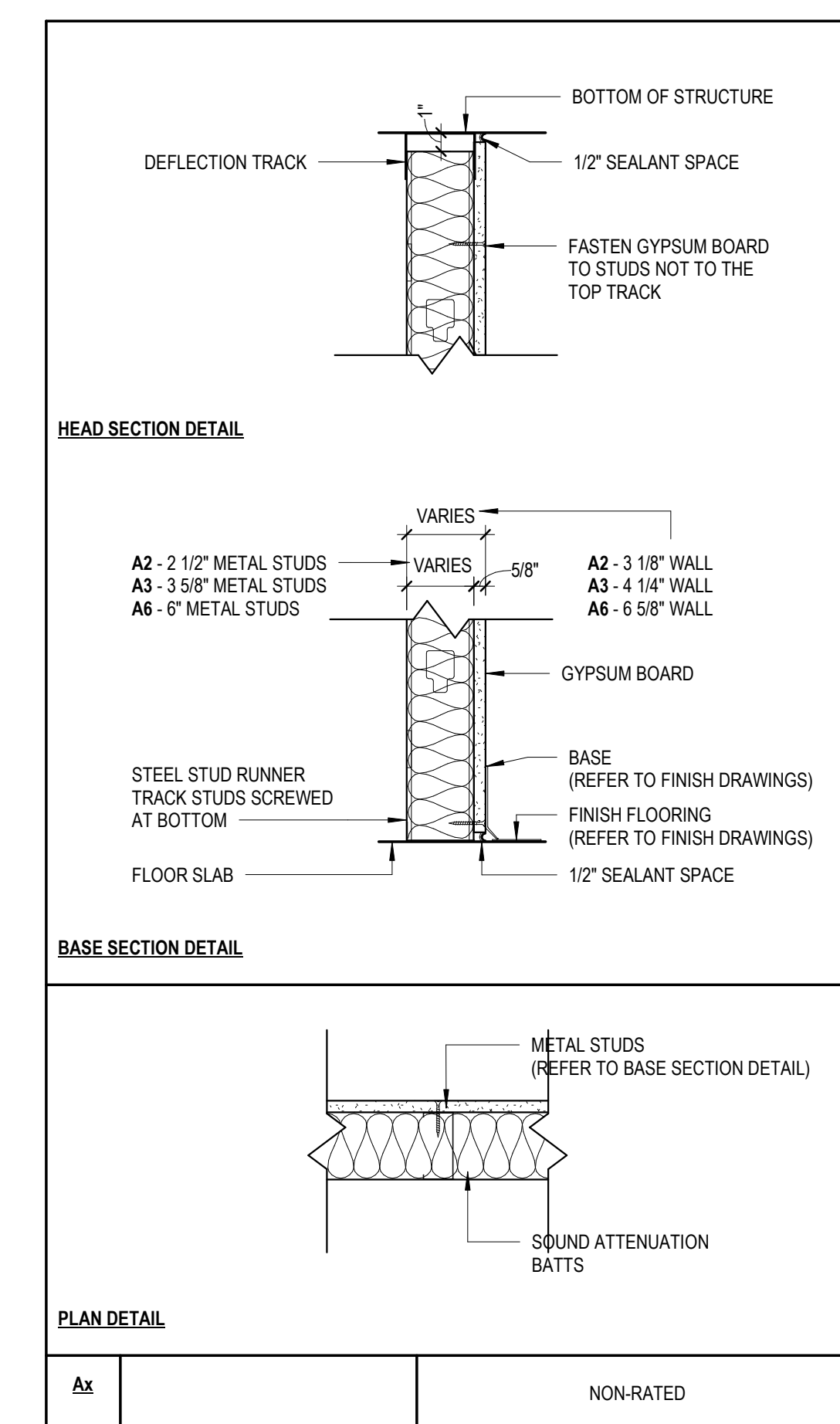


5 DUCTWORK ABOVE OPENING AT NON-FULL HEIGHT WALL - ELEVATION
3/8" = 1'-0"



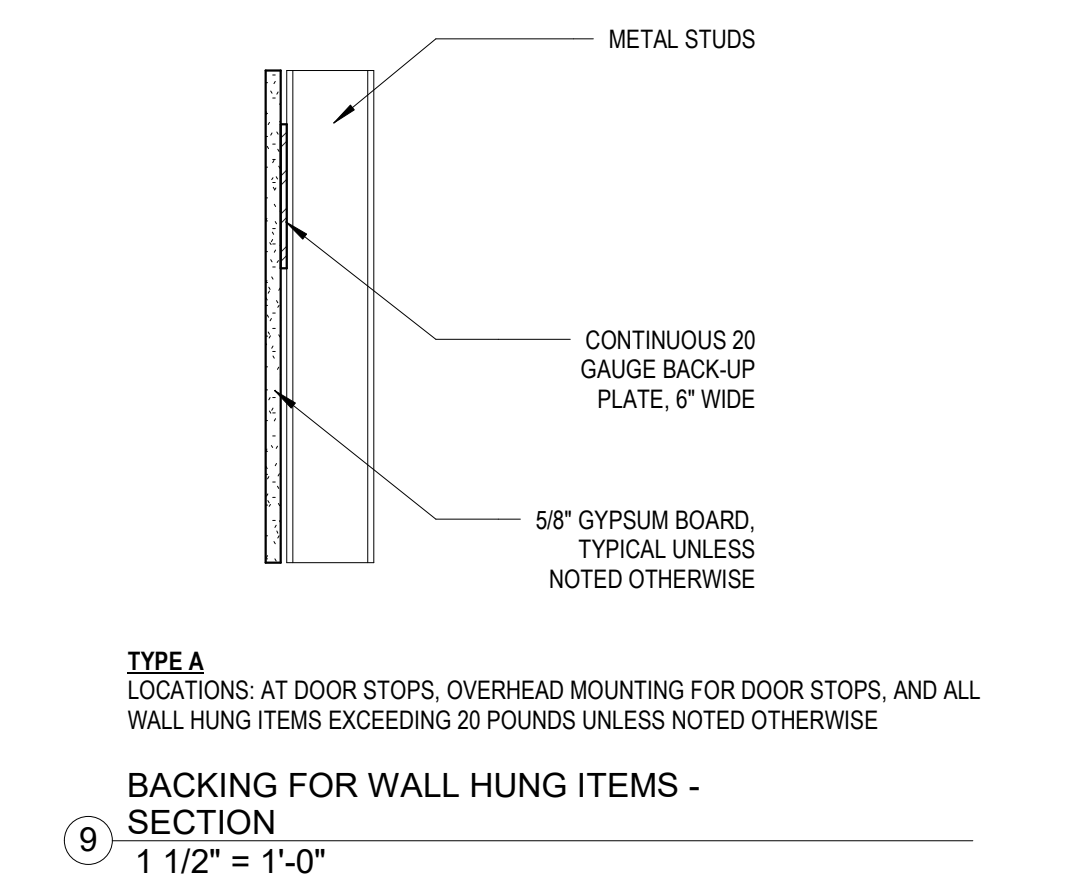
PLAN DETAIL

Bx	MINIMUM STC	1 HOUR RATED PARTITION (WHERE NOTED ON PLAN)
B2 - 45	B3 - 45 B6 - 45	B2 - ULF V01 B3 - ULF U45 B6 - ULF U45

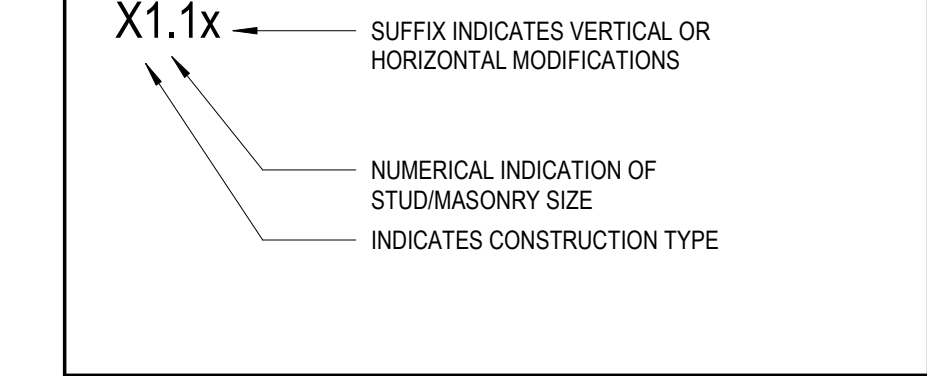


PLAN DETAIL

Ax		NON-RATED
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WALL TYPE SYMBOL



WALL TYPES SUFFIX

- INDICATES GYPSUM WALL CONSTRUCTION TO STOP 6" ABOVE FINISHED CEILING. STUD CONSTRUCTION TO CONTINUE TO DECK.
- INDICATES GYPSUM BOARD ON ONE SIDE TO STOP 6" ABOVE FINISHED CEILING.
- INDICATES ENTIRE WALL CONSTRUCTION TO STOP 6" ABOVE FINISHED CEILING.
- INDICATES PARTIAL HEIGHT WALL. PROVIDE PARTIAL HEIGHT WALL SUPPORT PER SPECIFICATIONS.
- INDICATES NO SOUND ATTENUATION BLANKETS.
- INDICATES MASONRY FILL INSULATION IN ALL OPEN CORES OF CMU.
- INDICATES 1/2" 4x8 SHEETS OF FIRE RETARDANT PLYWOOD APPLIED TO TELECOM. SIDE OF ROOM. APPLY TO A HEIGHT OF 8'-0" A.F.F.
- INDICATES ADDITIONAL LAYER OF 5/8" GYPSUM BOARD OVER WALL.
- INDICATES FOIL-FACED GYPSUM BOARD.

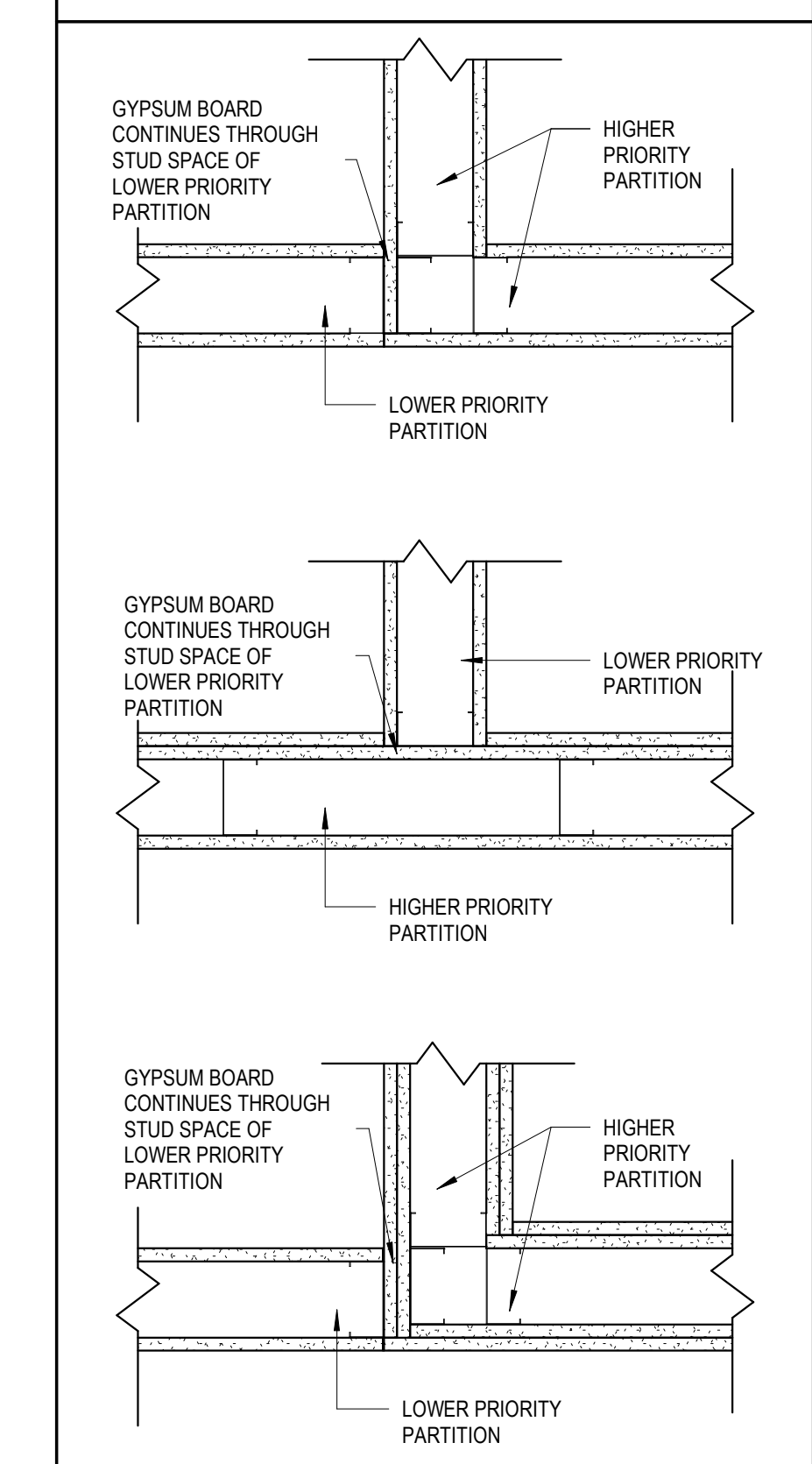
GENERAL WALL TYPE NOTES

- ALL INTERIOR GYPSUM BOARD WALLS SHALL BE TYPE B3.1 UNLESS NOTED OTHERWISE.
- ALL GYPSUM BOARD COLUMN SURROUNDS SHALL BE TYPE A2.1 UNLESS NOTED OTHERWISE. FINISHED FACE OF COLUMN ENCLOSURE CONSTRUCTION SHALL BE 13" FROM CENTER LINE OF COLUMN UNLESS NOTED OTHERWISE. REFER TO A500 FOR TYPICAL LOCATION OF INTERIOR DOOR OPENINGS.
- REFER TO A500 SERIES SHEETS FOR OPENING SCHEDULE AND REFER TO SPECIFICATIONS FOR HARDWARE INFORMATION.

PARTITION PRIORITY LEGEND

PARTITION FIRE RATING (AS NOTED)	PRIORITY
3 HOUR FIRE BARRIER WALL	HIGHEST
2 HOUR FIRE BARRIER WALL	
1 HOUR FIRE BARRIER WALL	
SMOKE BARRIER	
SMOKE PARTITION	
NON RATED PARTITION	LOWEST

PARTITION PRIORITY DIAGRAMS



GENERAL PARTITION CONSTRUCTION REQUIREMENTS

PARTITION TYPE SEE PLANS FOR PARTITION TYPE(S)	GENERAL USE	FIRE RATING OF PARTITION	PARTITION HORIZONTAL CONTINUITY	PARTITION VERTICAL CONTINUITY	OPENINGS (SUCH AS WINDOWS AND DOORS)	PENETRATIONS (SUCH AS DUCTS, PIPING, CONDUITS)	JOINTS (SUCH AS HEAD, SILL AND VERTICAL JOINTS)	DUCTS AND AIR TRANSFER OPENINGS
FIRE BARRIER	SEPARATES SHAFT ENCLOSURES, EXIT ENCLOSURES, EXIT PASSAGEWAYS, HORIZONTAL EXITS, INCIDENTAL USE AREAS AND OCCUPANCY SEPARATION FROM OTHER SPACES.	1-HOUR OR 2-HOUR RATED AS INDICATED	CONTINUOUS AROUND ENCLOSURE OR SEPARATING SPACE	FULL HEIGHT FROM FLOOR TO UNDERSIDE OF FLOOR OR ROOF ABOVE. CONTINUOUS THROUGH CONCEALED SPACES SUCH AS ABOVE SUSPENDED CEILINGS.	FIRE RATED. REFER TO OPENING SCHEDULE	FIRE RATED PROTECTED BY APPROVED FIRESTOP SYSTEM	FIRE RATED. PROTECTED BY APPROVED FIRESTOP SYSTEM	FIRE DAMPER REQUIRED WHERE DUCT OR AIR TRANSFER OPENING PENETRATES THE FIRE BARRIER

BSA
BSA LifeStructures
12645 Olive Blvd, Suite 227
Creve Coeur, MO 63141
ph 314.754.6306 fx 314.754.4452
Architectural Registration Number - 2003010309

Ross & Baruzzini
MEP ENGINEERING:
Ross & Baruzzini
6 S Old Orchard Ave
St. Louis, MO 63119
ph 314.918.8383 www.rossbar.com
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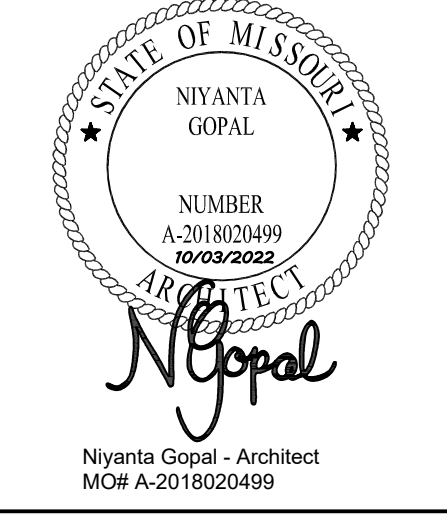
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Timberlake Engineering
912 Old Highway 63 South
Columbia, MO 65201
ph 573.875.4365 ext 209 www.customenr.com
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Health Care
MU PROJECT NO. - CP221944
**UNIVERSITY PHYSICIANS
MEDICAL BUILDING
(UPMB) - 4TH FLOOR -
MOA CLINIC RENOVATION**
1020 Hitt St, Columbia, MO 65212

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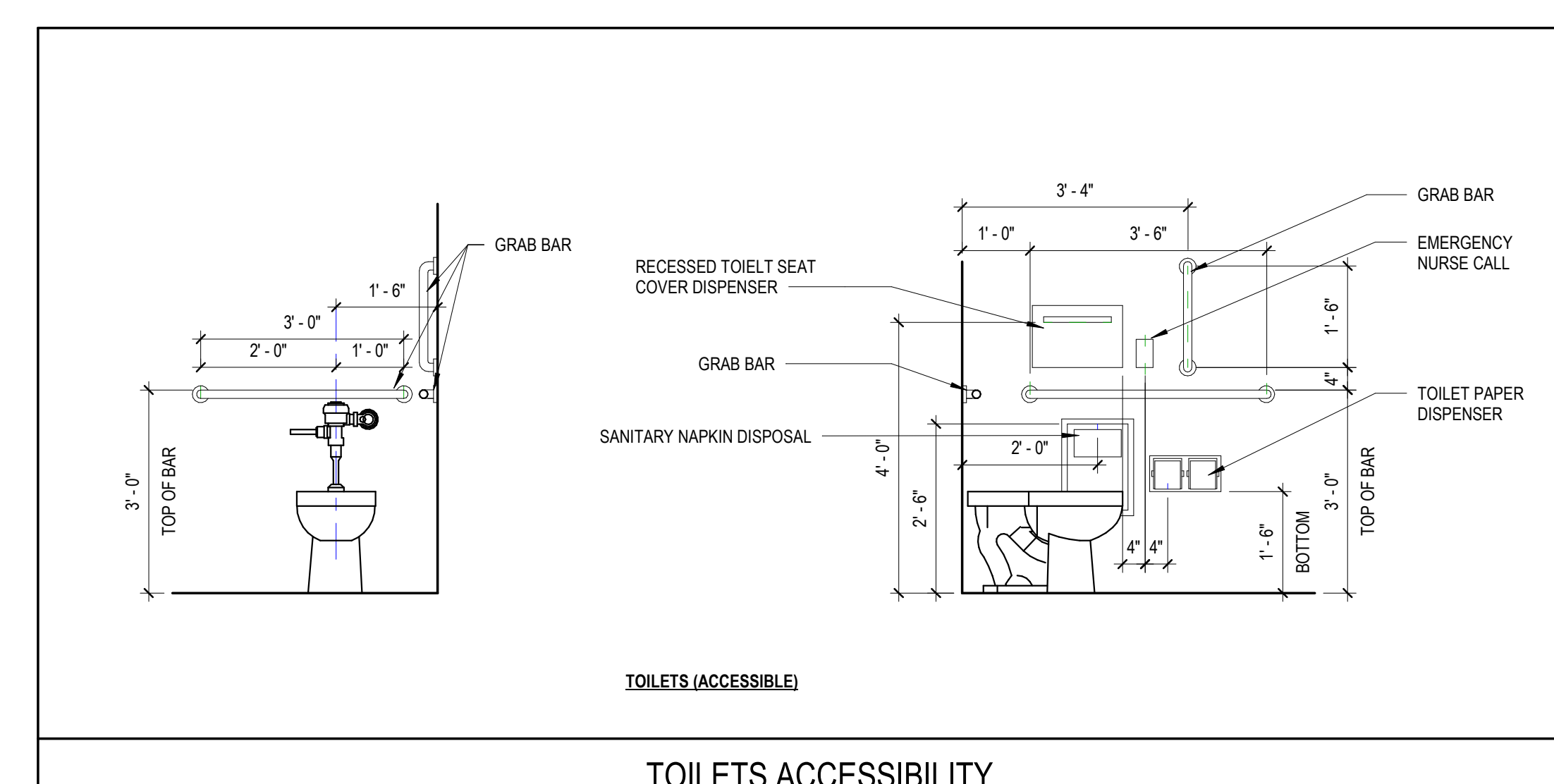
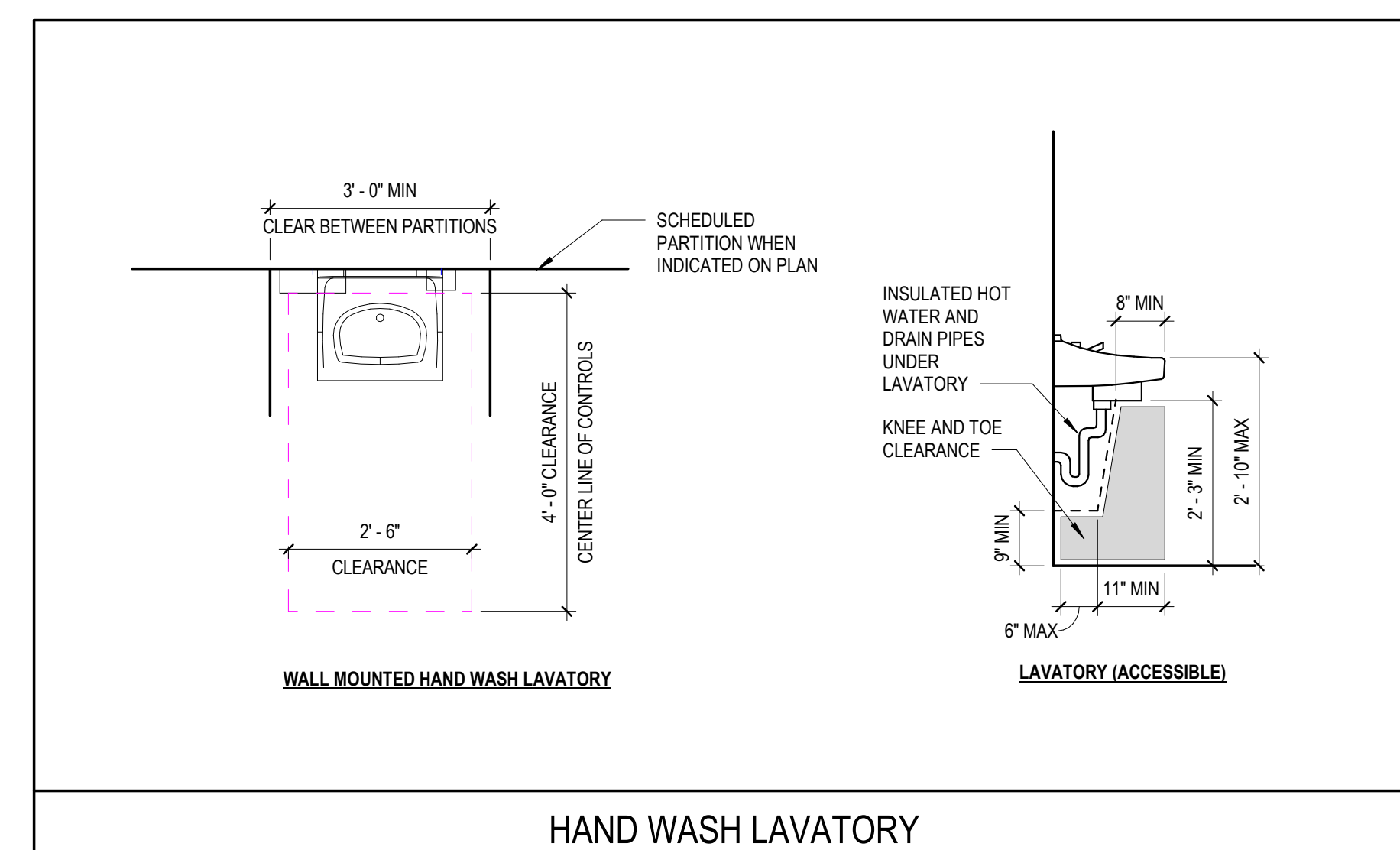
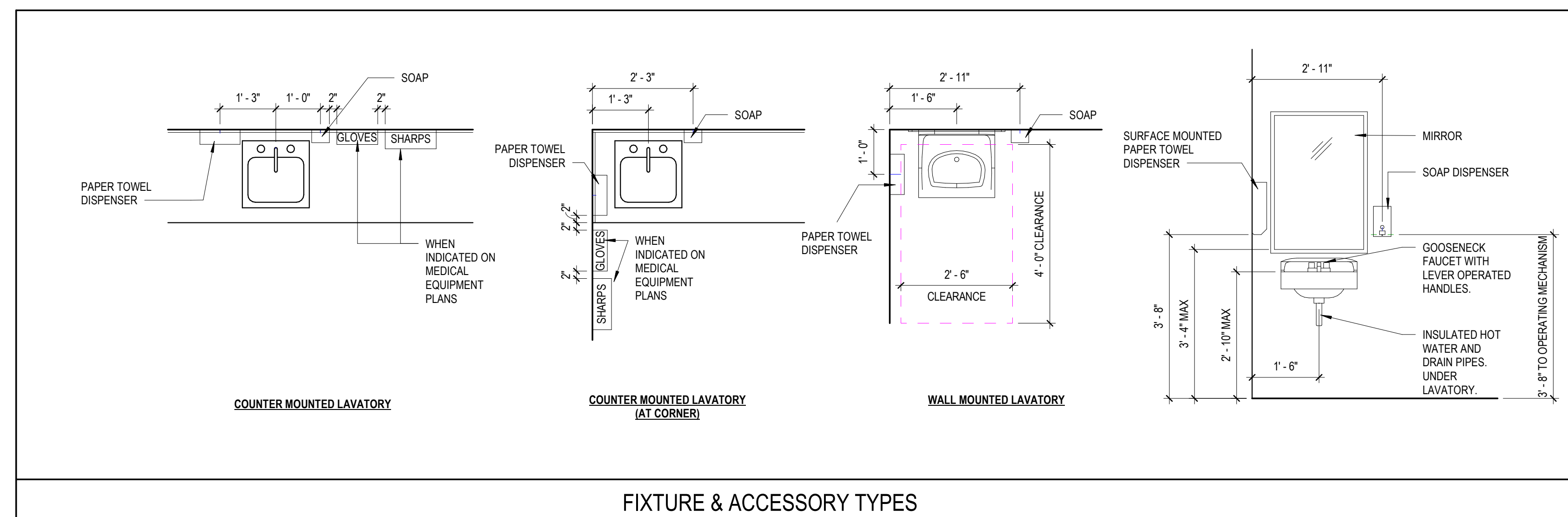
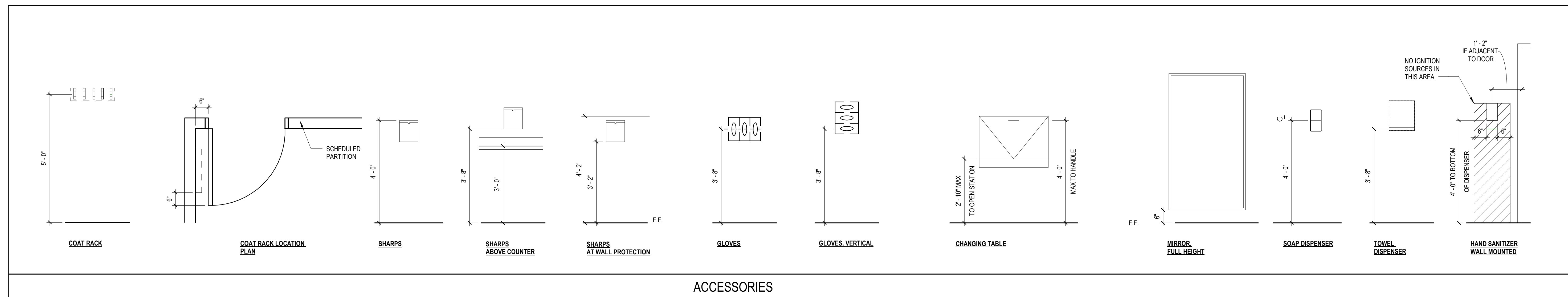
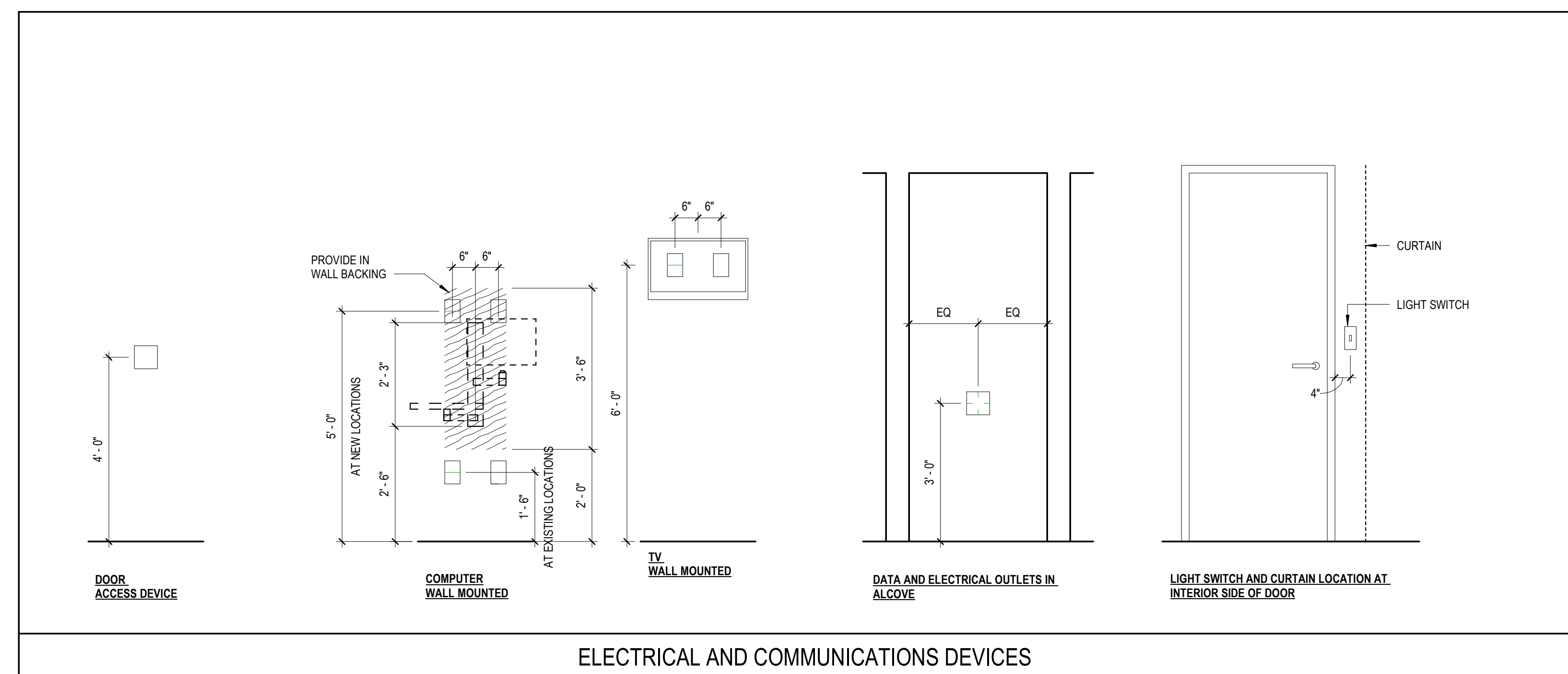
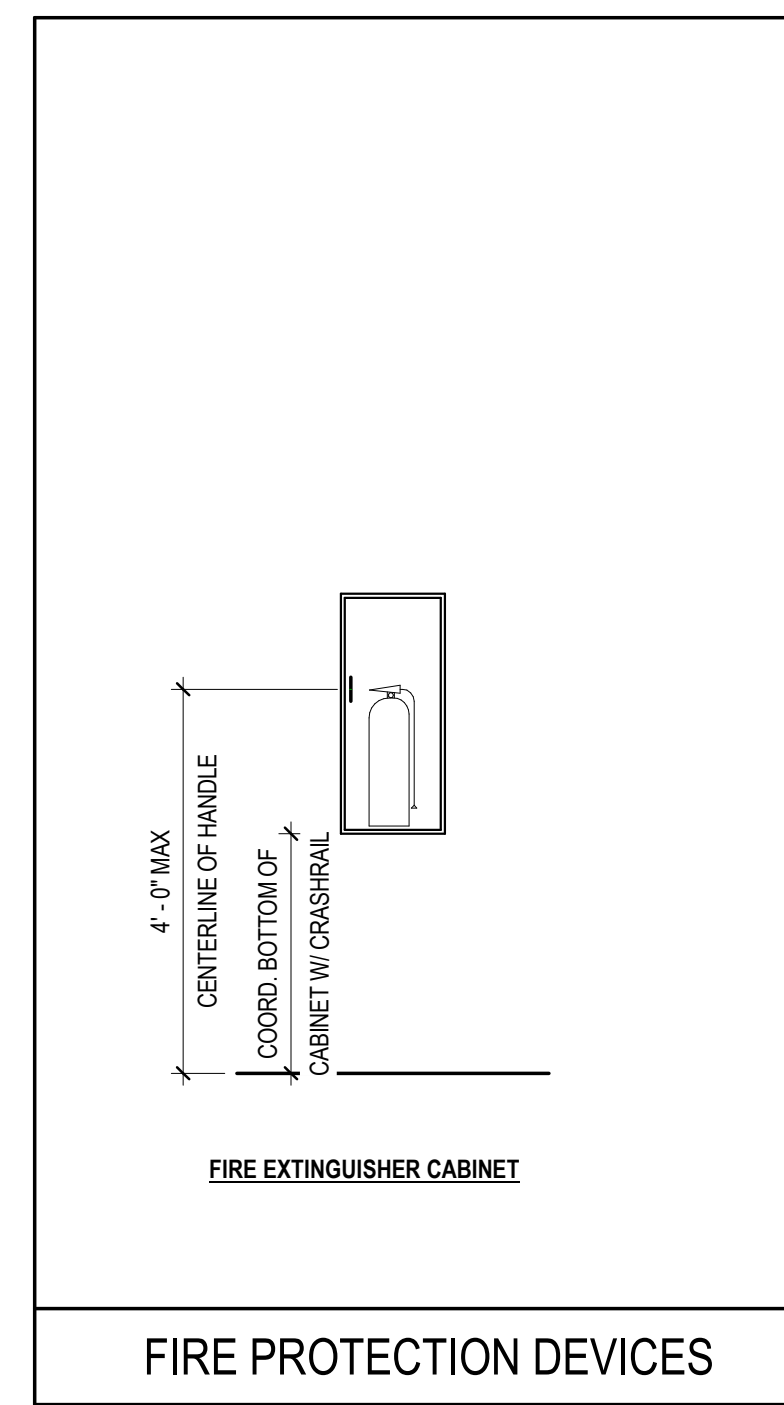


INTERIOR PARTITION TYPES & DETAILS

DATE 3 OCTOBER 2022
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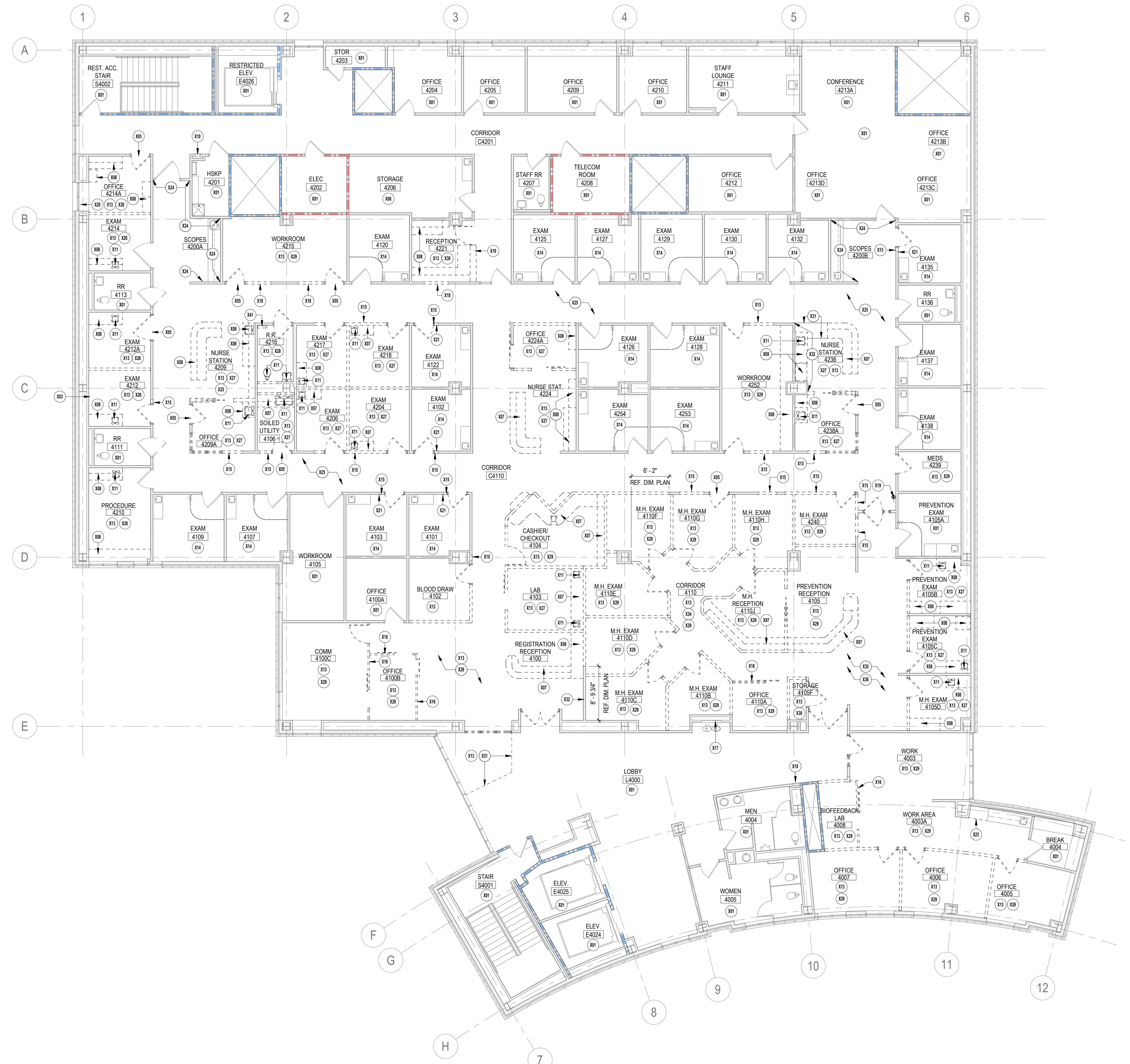
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TYPICAL ACCESSIBILITY DETAILS & MOUNTING HEIGHTS

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BSALS PROJECT NO.	14110005



KEYNOTE LEGEND	
REFER TO 4000 FOR GENERAL NOTES	
X01	EXISTING SPACE TO REMAIN, NO WORK.
X03	REMOVE EXISTING VALVE BOX, REF MEP DRAWINGS.
X05	REMOVE EXISTING DOOR, FRAME, HEADER AND HARDWARE IN ITS ENTIRETY. PREPARE OPENING TO BE INFILLED WITH NEW WALL CONSTRUCTION. REFER TO ARCHITECTURAL DIMENSION PLANS FOR ADDITIONAL INFORMATION.
X06	REMOVE EXISTING FLOORING AND BASE IN THEIR ENTIRETY. PREPARE FLOOR SLAB TO RECEIVE NEW FLOOR FINISH. PREPARE WALL TO RECEIVE NEW BASE. REFER TO INTERIOR FINISH PLANS FOR ADDITIONAL INFORMATION.
X07	REMOVE EXISTING CASEWORK IN ITS ENTIRETY.
X08	REMOVE EXISTING CASEWORK IN ITS ENTIRETY. PREPARE WALL TO RECEIVE NEW WALL FINISH. REFER TO INTERIOR FINISH PLANS FOR ADDITIONAL INFORMATION.
X10	EXISTING FIRE EXTINGUISHER CABINET TO REMAIN, PROTECT.
X11	REMOVE EXISTING PLUMBING FIXTURE.
X13	REMOVE EXISTING CEILINGS AND SOFFITS. REMOVE ALL WALL MOUNTED EQUIPMENT AND CEILING MOUNTED EQUIPMENT. RETURN ALL EQUIPMENT TO OWNER. PREPARE WALLS TO RECEIVE NEW FINISHES. REFER TO INTERIOR FINISH DRAWINGS.
X14	REMOVE EXISTING DRYWALL AND PATCH AS REQUIRED TO ACCOMMODATE NEW ELECTRICAL AND DATA. AND IN WALL BACKING FOR WALL MOUNTED COMPUTER ONLY. PROTECT ALL FINISHES AND EQUIPMENT IN EXISTING SPACE.
X15	REMOVE PORTION OF EXISTING WALL TO ACCOMMODATE NEW OPENING. COORDINATE WITH NEW WORK PLAN AND OPENING DETAILS.
X16	REMOVE EXISTING DEMOUNTABLE PARTITION.
X17	EXISTING DRINKING FOUNTAIN TO REMAIN. REMOVE DRYWALL AS REQUIRED TO PROVIDE WATER BOTTLE FILLER PER PLUMBING DRAWINGS.
X18	REMOVE PORTION OF EXISTING WALL TO CREATE NEW OPENING. REFER TO DIMENSION PLAN FOR LOCATION & ADDITIONAL INFORMATION.
X19	REMOVE EXISTING FIRE EXTINGUISHER & BRACKET.
X20	EXISTING WINDOW/SILL TO BE REMOVED. PREPARE TO RECEIVE NEW WINDOW/SILL PER ARCHITECTURAL DRAWINGS.
X21	LIGHT SWITCH TO BE RELOCATED/SHIFTED TO ACCOMMODATE NEW OPENING. REF ELEC. DRAWINGS.
X23	REMOVE EXISTING FULL HEIGHT CABINET AND SOLID SURFACE SIDESPLASH ONLY ADJACENT TO FULL HEIGHT CABINET. PROTECT EXISTING CASEWORK TO REMAIN.
X24	EXISTING WALLCOVERING TO REMAIN.
X25	REMOVE EXISTING WALLCOVERING THROUGHOUT CORRIDOR. PREP WALLS FOR NEW PAINT.
X26	REMOVE EXISTING RESILIENT FLOOR AND INTEGRAL COVE BASE IN ITS ENTIRETY. PREPARE FLOORS AND WALLS TO RECEIVE NEW FINISHES. REFER TO INTERIOR FINISH DRAWINGS.
X27	REMOVE EXISTING RESILIENT FLOORING AND RESILIENT COVE BASE IN ITS ENTIRETY. PREPARE FLOORS AND WALLS TO RECEIVE NEW FINISHES. REFER TO INTERIOR FINISH DRAWINGS.
X28	REMOVE EXISTING TILE WAINSCOTING AND TILE FLOORING IN ITS ENTIRETY. REMOVE ALL ASSOCIATED TILE ACCESSORIES. PREPARE FLOORS AND WALLS TO RECEIVE NEW FINISHES. REFER TO INTERIOR FINISH DRAWINGS.
X29	REMOVE EXISTING CARPET TILE IN ITS ENTIRETY. REMOVE EXISTING RESILIENT COVE BASE IN ITS ENTIRETY. PREPARE FLOORS AND WALLS TO RECEIVE NEW FINISHES. REFER TO INTERIOR FINISH DRAWINGS.
X30	REMOVE ALL EXISTING CARPET WHERE INDICATED. PREPARE FLOORS TO RECEIVE NEW FINISHES. REFER TO INTERIOR FINISH DRAWINGS.
X31	REMOVE EXISTING WALLCOVERING. PREP WALLS FOR NEW PAINT.
X32	REMOVE ALL EXISTING WALLCOVERING IN ITS ENTIRETY.
X35	REMOVE EXISTING TILE FLOORING IN ITS ENTIRETY. REMOVE ALL ASSOCIATED TILE ACCESSORIES. PREPARE FLOORS TO RECEIVE NEW FINISHES. REFER TO INTERIOR FINISH DRAWINGS.
X36	REMOVE RESILIENT BASE IN ITS ENTIRETY.
X41	REMOVE EXISTING MED GAS ZONE VALVE BOX WALL PANEL. REF PLUMBING DRAWINGS.

1 FOURTH FLOOR DEMOLITION PLAN
1/8" = 1'-0"
TO DO: COMPLETE KEYNOTING



BSA
BSA LifeStructures
12645 Olive Blvd, Suite 227
Creve Coeur, MO 63141
ph 314.754.6306 fx 314.754.4452
Architectural Registration Number - 2003010309

Ross & Baruzzini
MEP ENGINEERING:
Ross & Baruzzini
6 S Old Orchard Ave
St. Louis, MO 63119
ph 314.918.8383 www.rossbar.com
Missouri State Certificate of Authority #001048

Timberlake Engineering
A Custom Engineering Company
LIGHTING ENGINEERING:
Timberlake Engineering
912 Old Highway 63 South
Columbia, MO 65201
ph 573.875.4365 ext 209 www.customengr.com
Missouri State Certificate of Authority #00239

Health Care
MU PROJECT NO. - CP221944
**UNIVERSITY PHYSICIANS
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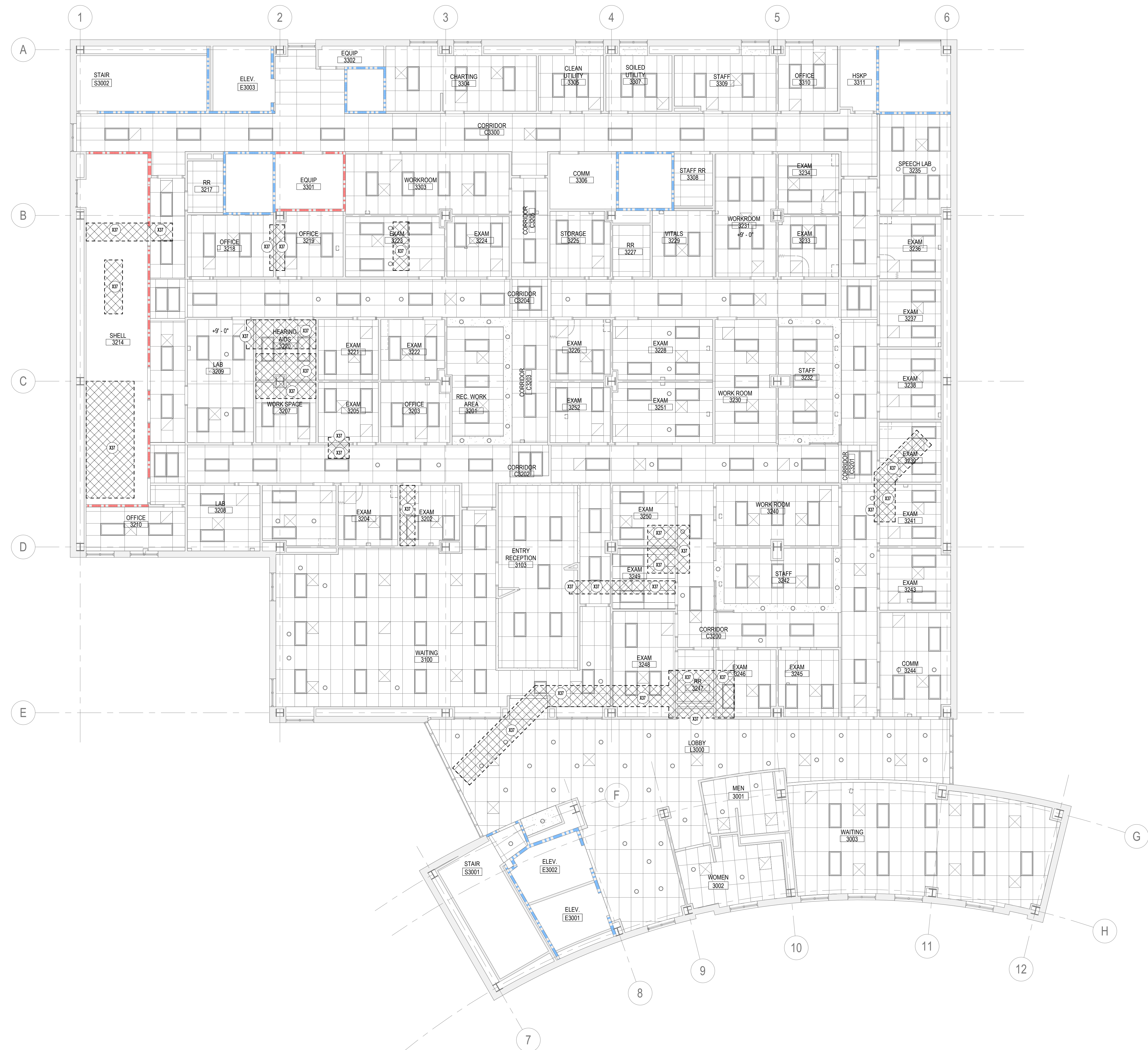


**DEMOLITION PLAN -
FOURTH FLOOR**

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KEYNOTE LEGEND

REFER TO A000 FOR GENERAL NOTES

X37
 CEILING WITHIN THIS OCCUPIED AREA TO BE TEMPORARILY REMOVED FOR SCOPE OF UNDERFLOOR PLUMBING DEMO/NEW WORK. AS INDICATED BY HATCHED REGION. REFER TO PLUMBING DRAWINGS AND COORDINATE EXISTING CONDITIONS TO BE MAINTAINED. PATCH/PAINT GYP. BD. CEILINGS AS REQUIRED. REPLACE DAMAGED TILES & GRID AS REQUIRED. PROTECT ALL LIGHT FIXTURES AND DIFFUSERS. WORK TO BE SCHEDULED WITH OWNER.

1 THIRD FLOOR REFLECTED CEILING PLAN
 REFERENCE
 1/8" = 1'-0"



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BSA LifeStructures
 12645 Olive Blvd, Suite 227
 Creve Coeur, MO 63141
 ph 314.754.6306 fx 314.754.4452
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 Ross & Baruzzini
 6 S Old Orchard Ave
 St. Louis, MO 63119
 ph 314.918.8383 www.rossbar.com
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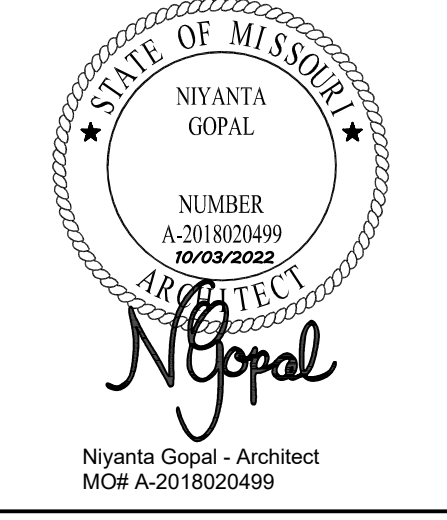
Health Care

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**DEMOLITION REFLECTED
 CEILING PLAN- THIRD
 FLOOR**

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FOURTH FLOOR DEMO REFLECTED
CEILING PLAN
1/8" = 1'-0"

KEYNOTE LEGEND

REFER TO 4000 FOR GENERAL NOTES

- X02 EXISTING CUBICLE CURTAIN AND TRACK TO BE REMOVED.
- X09 REMOVE EXISTING WINDOW TREATMENT.
- X22 ALTERNATE NO. 2. REMOVE CEILING TILES IN CORRIDORS. EXISTING GRID AND BULKHEADS TO REMAIN.
- X33 EXISTING WINDOW TREATMENT TO REMAIN. PROTECT DURING CONSTRUCTION.
- X38 CEILING WITHIN THIS AREA TO BE TEMPORARILY REMOVED FOR SCOPE OF HVAC DEMONSTRATION WORK. REFER TO MECHANICAL DRAWINGS TO COORDINATE EXISTING CEILING CONDITIONS TO BE MAINTAINED. PATCH/PAINT CYP. BD. CEILINGS AS REQUIRED. REPLACE DAMAGED TILES & GRID AS REQUIRED. PROTECT ALL LIGHT FIXTURES AND DIFFUSERS.
- X39 MODIFY EXISTING GRID TO ACCOMMODATE NEW WALL OR SOFFIT CONSTRUCTION (REFER TO REFLECTED CEILING PLAN). REMOVE AND REPLACE EXISTING CEILING TILES TO REMAIN AS REQUIRED AROUND THE SLOCAION. TEMPORARILY SUPPORT GRID DURING WALL CONSTRUCTION. PROVIDE NEW WALL MOLDINGS AS REQUIRED AT NEW WALLS.
- X42 CEILING WITHIN THIS AREA TO BE TEMPORARILY REMOVED FOR SCOPE OF PLUMBING OR MED GAS DEMO. REFER TO PLUMBING DRAWINGS TO COORDINATE EXISTING CEILING CONDITIONS TO BE MAINTAINED. PATCH/PAINT CYP. BD. CEILINGS AS REQUIRED. REPLACE DAMAGED TILES & GRID AS REQUIRED. PROTECT ALL LIGHT FIXTURES AND DIFFUSERS.

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12645 Olive Blvd, Suite 227
Creve Coeur, MO 63141
ph 314.754.6306 fx 314.754.4452
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MEP ENGINEERING:
Ross & Baruzzini
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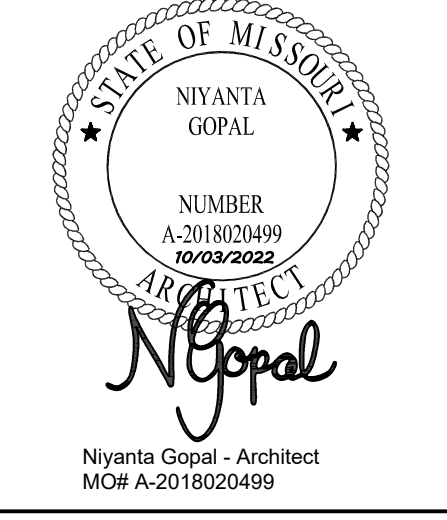
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Health Care
MU PROJECT NO. - CP221944
**UNIVERSITY PHYSICIANS
MEDICAL BUILDING
(UPMB) - 4TH FLOOR -
MOA CLINIC RENOVATION**
1020 Hitt St, Columbia, MO 65212

BID SET

MARK	DATE	DESCRIPTION
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**DEMOLITION REFLECTED
CEILING PLAN - FOURTH
FLOOR**

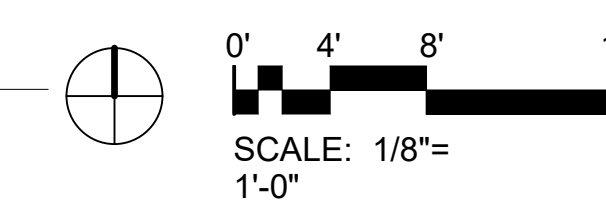
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1 FOURTH FLOOR DIMENSION PLAN
1/8" = 1'-0"



KEYNOTE LEGEND	
REFER TO A000 FOR GENERAL NOTES	
D02	ALIGN
D06	ALIGN CENTERLINE OF WALL CONSTRUCTION WITH MULLION CENTERLINE
D09	INFILL WALL CONSTRUCTION TO MATCH EXISTING WALL (SIM. B3); ALIGN CYP. ED. ON BOTH SIDES
D10	EXISTING DOOR TO BE TIED TO FIRE ALARM TO ALLOW FOR EGRESS.
D14	COORDINATE STUD CONSTRUCTION ABOVE CEILING WITH DUCTWORK. PROVIDE KICKERS TO STRUCTURE ABOVE.
D15	EXISTING WALL CONSTRUCTION TO BE MODIFIED AS REQUIRED TO ACCOMMODATE 9'-0" CEILING IN THIS SPACE.

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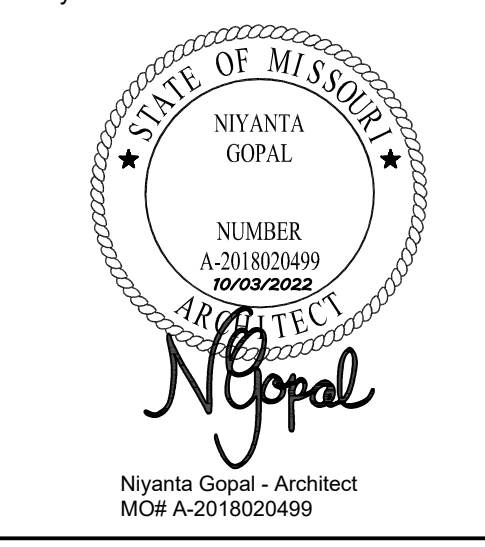
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DIMENSION PLAN- FOURTH FLOOR

DATE: 3 OCTOBER 2022
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KEYNOTE LEGEND

REFER TO A000 FOR GENERAL NOTES

A08	NO WORK IN THIS AREA.
A10	FINISH END OF EXISTING BASE CABINET AND UPPER CABINET WITH LAMINATE TO MATCH EXISTING. SMOOTH END OF EXISTING SOLID SURFACE COUNTERTOP. PROVIDE NEW END PANEL FOR PLUMB CLOSURE PANEL ABOVE UPPER CABINET.
A11	OFCI SIGNAGE: "MAXIMUM OCCUPANT LOAD: 49"
A12	REFER TO EXAM 4142 FOR TYPICAL INTERIOR ELEVATIONS.
A14	NURSE CALL DEVICE. REF ELEC DRAWINGS.
A16	FLOOR DRAIN TO BE CENTERED IN ROOM. REF PLUMBING DRAWINGS.
A17	REFER TO 7/1071 FOR TYPICAL WINDOW/SILL DETAIL.
A18	AT EXISTING WALLS WHERE DRYWALL HAS BEEN PATCHED, ENSURE ENTIRE WALL IS PAINTED TO MATCH EXISTING.
A19	IN FLOOR POWER BOX EXAM TABLE. MAINTAIN EXISTING FLOOR RATINGS. VERIFY LOCATION WITH EXISTING STRUCTURE.
A20	REFER TO EXAM 4108 FOR TYPICAL INTERIOR ELEVATIONS.
A21	BOTTLE FILLER AT THIS LOCATION. REF PLUMB. DRAWINGS.

1 FOURTH FLOOR ARCHITECTURAL PLAN
1/8" = 1'-0"

TO DO: COMPLETE KEYNOTING, COORDINATE INTERIOR ELEVATIONS FOR EXAM ROOMS



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12645 Olive Blvd, Suite 227
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ph 314.754.6306 fx 314.754.4452
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Ross & Baruzzini
6 S Old Orchard Ave
St. Louis, MO 63119
ph 314.918.8383 www.rossbar.com
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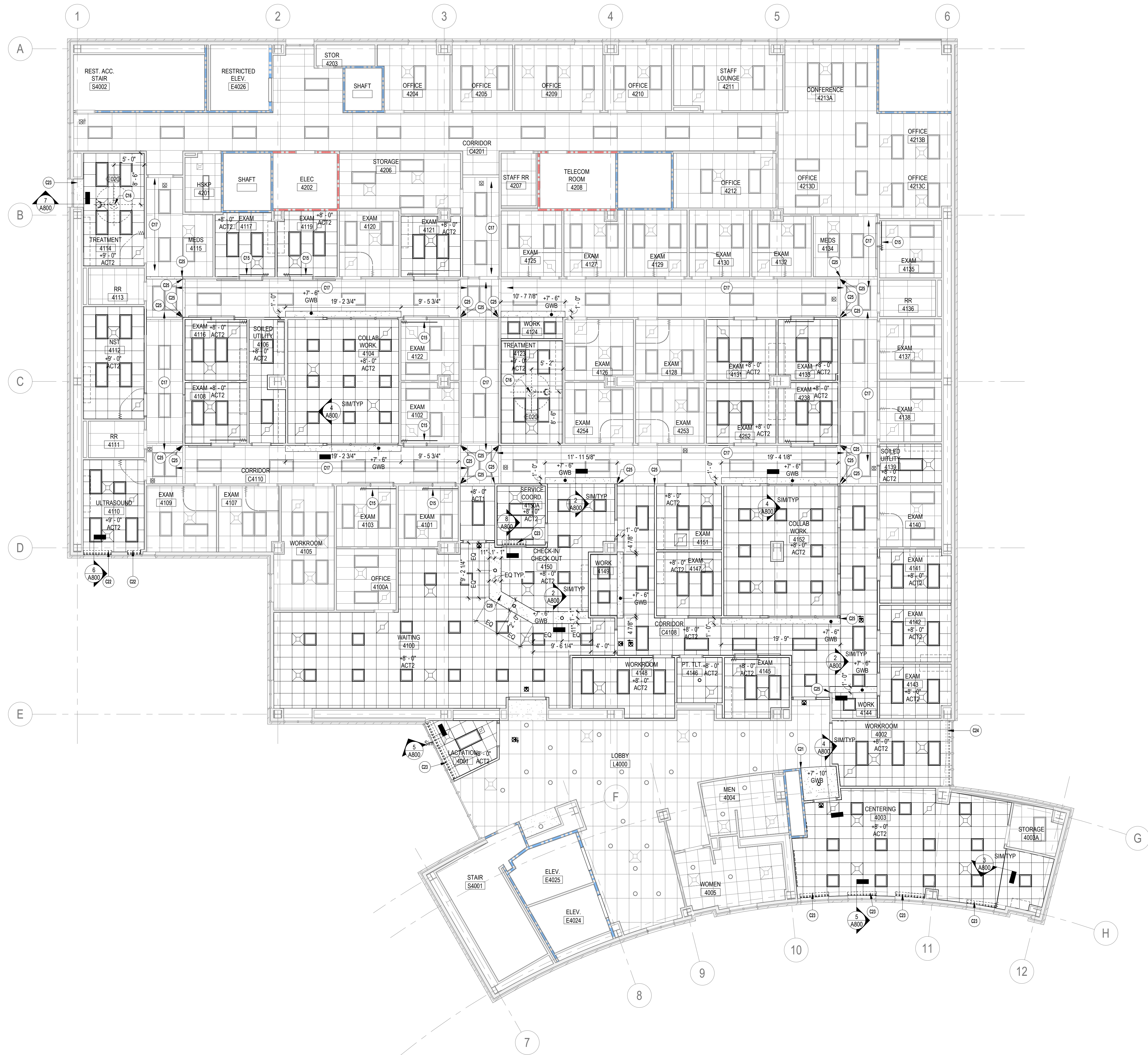


ARCHITECTURAL PLAN-
FOURTH FLOOR

DATE 3 OCTOBER 2022
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A124

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1 FOURTH FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"

KEYNOTE LEGEND

REFER TO A000 FOR GENERAL NOTES

- C15 MODIFY EXISTING CEILING GRID AS REQUIRED TO ACCOMMODATE NEW CURSILE CURTAIN TRACK. REFER TO DETAIL 31600.
- C16 PROVIDE A COORDINATE STANDARDIZED STRUT SYSTEM, SUPPORT RODS, STIFFENER PLATES, AND MOUNTING PLATES TO SUPPORT OWNER PROVIDED OVERHEAD EXAM LIGHT. ANCHORED TO STRUCTURE ABOVE. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF OVERHEAD SUPPORT TO ENSURE IT IS CONSTRUCTED IN A WAY TO BE COMPATIBLE WITH ALL EQUIPMENT AND ACCESSORIES PROVIDED BY OWNER. REFER TO ELECTRICAL DRAWINGS. LIGHT TO BE CENTERED IN CEILING TILE AS SHOWN.
- C17 ALTERNATE NO. 2: PROVIDE NEW ACT1 CEILING TILES, EXISTING GRIDS, BULKHEADS, FIXTURES, DIFFUSERS, ETC TO REMAIN. PROTECT FRONT FACE OF SOFFIT TO RECEIVE WALLCOVERING. VMC1 UNDERSIDE TO BE PAINTED P2. REFER TO INTERIOR FINISH SPECIFICATION SCHEDULE. EXPOSED EDGE OF WALLCOVERING TO RECEIVE ALUMINUM J CHANNEL TRIM.
- C21 PAINT FRONT FACE OF SOFFIT TO MATCH ADJACENT EXISTING WALL. PAINT UNDERSIDE OF SOFFIT P2.
- C22 NEW SURFACE MOUNTED DUAL MANUAL ROLLER SHADES WITH BLACKOUT SHADE, RS1 AND LIGHT FILTERING SHADE, RS2. WINDOW TO RECEIVE CHANNELS FOR COMPLETE BLACKOUT. REFER TO INTERIOR FINISH SPECIFICATION SCHEDULE.
- C23 NEW SURFACE MOUNTED SINGLE MANUAL ROLLER SHADE, RS2. REFER TO INTERIOR FINISH SPECIFICATION SCHEDULE.
- C24 EXISTING ROLLER SHADES TO REMAIN.
- C25 PROVIDE V-GROOVE DRYWALL REVEAL BETWEEN WALL AND BULKHEAD FOR PAINT TERMINATION. PAINT BULKHEAD P2.
- X22 ALTERNATE NO. 2: REMOVE CEILING TILES IN CORRIDORS, EXISTING GRID AND BULKHEADS TO REMAIN.

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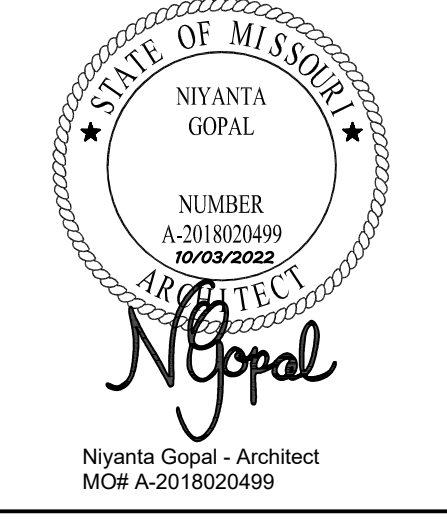
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**REFLECTED CEILING PLAN
- FOURTH FLOOR**

DATE: 3 OCTOBER 2022
BSALS PROJECT NO.: 14110005

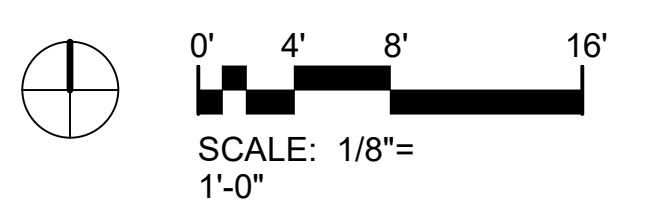
REFLECTED CEILING SCHEDULE

TYPE	REFERENCE STANDARD MANUFACTURER	CEILING TYPE				SUSPENSION SYSTEM			DESCRIPTION
		STYLE NAME	MODEL #	SIZE	COLOR	GRID SYSTEM	SIZE	COLOR	
ACT1	ARMSTRONG	CIRRUS SECOND LOOK REGULAR	513	24" X 48"	WHITE	EXISTING GRID TO REMAIN	-	-	SCORING CREATES NOMINAL 24" X 24" SQUARES
ACT2	ARMSTRONG	CIRRUS REGULAR	556	24" X 24"	WHITE	PRELUDE HD	15/16"	WHITE	
GWB	REFER TO PROJECT MANUAL								REFER TO INTERIOR FINISH PLANS FOR PAINT

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① FOURTH FLOOR EQUIPMENT PLAN
1/8" = 1'-0"



EQUIPMENT SCHEDULE

NUMBER	NAME	FURNISHED	INSTALLED	MANUFACTURER	MODEL NUMBER	DIMENSIONS (WxDxH)	REMARKS
E001	VITAL SIGNS MONITOR	OWNER	CONTRACTOR	WELCH ALLYN	901060	11"x10"x5"	WALL MOUNTED 48" H. POWER & DATA 42" H
E002	SCALE	OWNER	OWNER	SECA	?	16.1"x22.7"x53.4"	POWER
E003	MICROSCOPE	OWNER	OWNER	SEILER / REICHERT	/ MICROSTAR 4	7"x12"x15"	POWER
E004	REFRIGERATOR	OWNER	OWNER	HOTPOINT	CTX19MA	29.5"x30"x64.5"	POWER
E005	COUNTERTOP PRINTER	OWNER	OWNER	?	?	?	POWER & DATA
E006	COMPUTER ON WHEELS	OWNER	OWNER	?	?	?	POWER & DATA
E007	SOILED LINEN HAMPER	OWNER	OWNER	?	?	18"x18"x38"	?
E008	CUBICAL CURTAIN (STRAIGHT)	CONTRACTOR	CONTRACTOR	-	-	-	INSTALL PER DETAIL 3/A800. REF INTERIOR FINISH DRAWINGS & SPECIFICATIONS
E009	CUBICAL CURTAIN AND TRACK	CONTRACTOR	CONTRACTOR	-	-	-	INSTALL PER DETAIL 3/A800. REF INTERIOR FINISH DRAWINGS & SPECIFICATIONS
E010	EXAM TABLE	OWNER	OWNER	RITTER	224225	28"x60"x18"	POWER
E011	WALL MOUNTED COMPUTER	OWNER	CONTRACTOR	?	?	?	POWER & DATA 60" H
E012	REFRIGERATOR- UNDERCOUNTER SOILED	OWNER	OWNER	SANYO / FRIGIDAIRE	SR-1288X / BFR133MAM	18.5"x19.5"x35.5"	POWER
E012A	REFRIGERATOR- UNDERCOUNTER NST	OWNER	OWNER	EMERSON	CR177WE2	18.5"x19.5"x35.5"	POWER
E013	COMPUTER WORKSTATION- SINGLE MONITOR	OWNER	OWNER	?	?	?	POWER (2 PLUG-IN LOCATIONS) & DATA
E014	COMPUTER WORKSTATION- DUAL MONITORS	OWNER	OWNER	?	?	?	POWER (4 PLUG-IN LOCATIONS) & DATA
E015	IV FLUID WARMING	OWNER	OWNER	ENTHERMICS	IVWNO-3	13.2"x6"x21.2"	WALL MOUNTED @ 46" OT CENTER (PROVIDE IN WALL BACKING). POWER
E016	HYSTEROSCOPY CART	OWNER	OWNER	STRYKOR	?	28"x28"x73.5"	SIX PIECES OF EQUIPMENT. POWER
E017	LEEP CART	OWNER	OWNER	UTAH MEDICAL	FINESSE	34"x18.5"x44"	SITS ON KOBALT CART. POWER
E018	IV POLE	OWNER	OWNER	WALLACH	ZOOMSTAR	23.6"x23.6"x51"	POWER. REFER TO SKYTRON DOCUMENTATION FOR STANDARD MOUNTING STRUCTURE.
E019	COLPOSCOPE	OWNER	OWNER	WALLACH	ZOOMSTAR	23.6"x23.6"x51"	POWER. REFER TO SKYTRON DOCUMENTATION FOR STANDARD MOUNTING STRUCTURE.
E020	OVERHEAD EXAM LIGHT	OWNER	CONTRACTOR	SKYTRON	SPECTRA AUT1	LED EXAMINATION LIGHT CEILING MOUNTED	POWER. REFER TO SKYTRON DOCUMENTATION FOR STANDARD MOUNTING STRUCTURE.
E021	SHRED BIN	OWNER	OWNER	CINTAS	?	20"x11"x24"	?
E022	LITERATURE HOLDER	OWNER	OWNER	?	?	21.5"x15.5"x35.5"	INSTALL BOTTOM OF HOLDER TO 30" A.F.F.
E023	MONITOR WALL MOUNTED 40"	OWNER	CONTRACTOR	?	?	?	POWER & DATA 72" H
E024	CREDIT CARD MACHINE	OWNER	OWNER	?	?	?	?
E025	LABEL PRINTER	OWNER	OWNER	?	?	?	?
E026	SCANNER	OWNER	OWNER	?	?	?	?
E027	MULTIFUNCTION PRINT/ COPY/ SCAN	OWNER	OWNER	?	?	?	POWER & DATA
E028	SAFE	OWNER	OWNER	BARKSA	?	14"x14"x20"	?
E029	TROPHON	OWNER	OWNER	TROPHON	EPR	13"x12.5"x19"	POWER
E030	ULTRASOUND	OWNER	OWNER	EPIQ	7W	23.8"x42"x57"	POWER, DATA, & HDMI
E031	GEL WARMER	OWNER	OWNER	GRAHAM-FIELD	GF108	6"x5"x5"	POWER
E032	TELEPHONE	OWNER	OWNER	?	?	?	POWER & DATA
E033	FETAL MONITOR	OWNER	OWNER	GE	259CX	18"x22"x38"	POWER & DATA
E035	MONITOR WALL MOUNTED 43"	OWNER	CONTRACTOR	?	?	?	?
E036	URINALYSIS SCANNER	OWNER	OWNER	?	?	6.5"x7"x15"	POWER & DATA
E037	URINALYSIS	OWNER	OWNER	?	?	7"x15.5"x7.5"	POWER & DATA
E038	KIOSK STATION (FUTURE)	OWNER	OWNER	-	-	-	POWER & DATA 48" H
E039	PROBE STORAGE RACK	OWNER	CONTRACTOR	CIVCO	610-942	19.8"x9.5"x7.1"	INSTALL IN CABINET

TOILET ACCESSORIES

T01	DESCRIPTION	PURCHASE	INSTALL	INSTALL NOTES
T01	SOAP DISPENSER	OWNER	CONTRACTOR	REFER TO A002
T02	PAPER TOWEL DISPENSER	CONTRACTOR	CONTRACTOR	REFER TO A002
T03	AUTOMATIC PAPER TOWEL DISPENSER	OWNER	CONTRACTOR	REFER TO A002
T04	GRAB BARS - ADA	CONTRACTOR	CONTRACTOR	REFER TO A002
T05	CHANGING TABLE	CONTRACTOR	CONTRACTOR	REFER TO A002
T06	TOILET PAPER DISPENSER	CONTRACTOR	CONTRACTOR	REFER TO A002
T07	MIRROR 18x12	OWNER	CONTRACTOR	REFER TO A002
T08	MIRROR 24x36	CONTRACTOR	CONTRACTOR	REFER TO A002
T09	WOOD FLIP COAT RACK	OWNER	CONTRACTOR	REFER TO A002
T10	HAND SANITIZER	OWNER	CONTRACTOR	REFER TO A002
T11	(3) GLOVE BOX - VERTICAL MOUNT	OWNER	CONTRACTOR	REFER TO A002
T12	(3) GLOVE BOX - HORIZONTAL MOUNT	OWNER	CONTRACTOR	REFER TO A002
T13	SHAMPS CONTAINER	OWNER	CONTRACTOR	REFER TO A002
T14	MAGNETIC WHITEBOARD - 28"W X 42"W	CONTRACTOR	CONTRACTOR	INSTALL BOTTOM OF WHITEBOARD TO 34" A.F.F.
T15	MAGNETIC WHITEBOARD - 72"W X 48"H	CONTRACTOR	CONTRACTOR	INSTALL BOTTOM OF WHITEBOARD TO 30" A.F.F.
T16	MAGNETIC WHITEBOARD - 48"W X 36"W	CONTRACTOR	CONTRACTOR	INSTALL BOTTOM OF WHITEBOARD TO 30" A.F.F.
T17	TRASH	OWNER	OWNER	N/A
T18	BIOHAZARD BIN	OWNER	OWNER	N/A

KEYNOTE LEGEND

E000	REFER TO A000 FOR GENERAL NOTES
E01	REFER TO EXAM 4142 FOR EQUIPMENT TAGS.
E02	REFER TO EXAM 4108 FOR EQUIPMENT TAGS.
E03	NO -E008- CUBICLE CURTAIN IN THIS SPACE.

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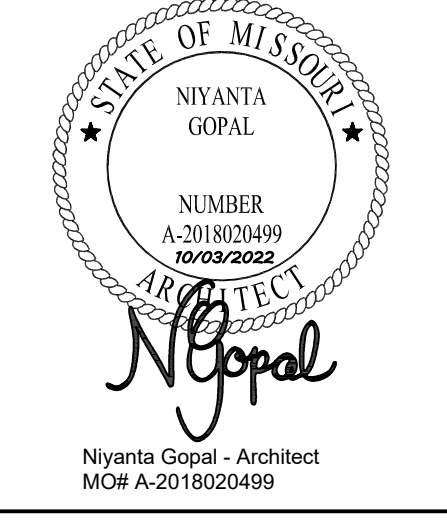
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EQUIPMENT PLAN -
FOURTH FLOOR

DATE: 3 OCTOBER 2022
BSALS PROJECT NO.: 14110005

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 CHECKED: Niyanta Gopal
 APPROVED: Niyanta Gopal

OPENING NUMBER	ROOMS		OPENING TYPE	OPENING SIZE			PANEL CONSTRUCTION				FRAME CONSTRUCTION				GLASS TYPE	FIRE RATING (MINUTES)	COMMENTS	
	ROOM A	ROOM B		WIDTH	HEIGHT	MATERIAL	WIDTH		ELEVATION		MATERIAL	ELEVATION	SIDELITE WIDTH					DETAIL SET
							PRIMARY	SECONDARY	PRIMARY	SECONDARY			HINGE SIDE	WIDTH SIDE				
4001	LOBBY	LACTATION	SW1	3'-8"	7'-0"	VD	3'-8"	0"	P1.1: FLUSH	--	HM	F1.1: STANDARD	0"	0"	01	--	CLOSER, PRIVACY LOCKSET INCLUDING VACANT/OCCUPIED	
4002	LOBBY	WORKROOM	SW1	3'-0"	7'-0"	VD	3'-0"	0"	P1.1: FLUSH	--	HM	F1.1: STANDARD	0"	0"	01	--	CARD READ IN	
4003	CENTERING	LOBBY	SW1	3'-8"	7'-0"	VD	3'-8"	0"	P1.1: FLUSH	--	HM	F1.1: STANDARD	0"	0"	01	--	CARD READ IN	
4100	CORRIDOR	WAITING	SW1	3'-8"	7'-0"	VD	3'-8"	0"	P1.1: FLUSH	--	HM	F1.1: STANDARD	0"	0"	01	--	AUTO OPENER, CARD READ/REMOTE RELEASE IN, TOUCHLESS ACTUATOR OUT	
4101	CORRIDOR	EXAM	BP1	3'-8"	7'-2"	VD	3'-8"	0"	P1.1: FLUSH	--	AL	F4.2: AD SYSTEMS FRAME	0"	0"	08	--	PASSAGE SET	
4102	CORRIDOR	EXAM	BP1	3'-8"	7'-2"	VD	3'-8"	0"	P1.1: FLUSH	--	AL	F4.2: AD SYSTEMS FRAME	0"	0"	08	--	PASSAGE SET	
4103	CORRIDOR	EXAM	BP1	3'-8"	7'-2"	VD	3'-8"	0"	P1.1: FLUSH	--	AL	F4.2: AD SYSTEMS FRAME	0"	0"	08	--	PASSAGE SET	
4106	CORRIDOR	SOILED UTILITY	SW1	3'-0"	7'-0"	VD	3'-0"	0"	P1.1: FLUSH	--	HM	F1.1: STANDARD	0"	0"	01	--	CARD READ IN, CLOSER	
4108	EXAM	CORRIDOR	BP1	3'-8"	7'-2"	VD	3'-8"	0"	P1.1: FLUSH	--	AL	F4.2: AD SYSTEMS FRAME	0"	0"	08	--	PASSAGE SET	
4112	CORRIDOR	NST	SW1	3'-8"	7'-0"	VD	3'-8"	0"	P1.1: FLUSH	--	HM	F1.1: STANDARD	0"	0"	01	--	PASSAGE SET	
4117	CORRIDOR	EXAM	BP1	3'-8"	7'-2"	VD	3'-8"	0"	P1.1: FLUSH	--	AL	F4.2: AD SYSTEMS FRAME	0"	0"	08	--	PASSAGE SET	
4118	CORRIDOR	EXAM	BP1	3'-8"	7'-2"	VD	3'-8"	0"	P1.1: FLUSH	--	AL	F4.2: AD SYSTEMS FRAME	0"	0"	08	--	PASSAGE SET	
4119	EXAM	CORRIDOR	BP1	3'-8"	7'-2"	VD	3'-8"	0"	P1.1: FLUSH	--	AL	F4.2: AD SYSTEMS FRAME	0"	0"	08	--	PASSAGE SET	
4121	CORRIDOR	EXAM	BP1	3'-8"	7'-2"	VD	3'-8"	0"	P1.1: FLUSH	--	AL	F4.2: AD SYSTEMS FRAME	0"	0"	08	--	PASSAGE SET	
4122	CORRIDOR	EXAM	BP1	3'-8"	7'-2"	VD	3'-8"	0"	P1.1: FLUSH	--	AL	F4.2: AD SYSTEMS FRAME	0"	0"	08	--	PASSAGE SET	
4131	CORRIDOR	EXAM	SW1	3'-8"	7'-0"	VD	3'-8"	0"	P1.1: FLUSH	--	HM	F1.1: STANDARD	0"	0"	01	--	PASSAGE SET, CONTINUOUS HINGE	
4133	CORRIDOR	EXAM	BP1	3'-8"	7'-2"	VD	3'-8"	0"	P1.1: FLUSH	--	AL	F4.2: AD SYSTEMS FRAME	0"	0"	08	--	PASSAGE SET	
4135	CORRIDOR	EXAM	BP1	3'-8"	7'-2"	VD	3'-8"	0"	P1.1: FLUSH	--	AL	F4.2: AD SYSTEMS FRAME	0"	0"	08	--	PASSAGE SET	
4139	CORRIDOR	SOILED UTILITY	SW1	3'-0"	7'-0"	VD	3'-0"	0"	P1.1: FLUSH	--	HM	F1.1: STANDARD	0"	0"	01	--	CARD READ IN, CLOSER	
4141	CORRIDOR	EXAM	SW1	3'-8"	7'-0"	VD	3'-8"	0"	P1.1: FLUSH	--	HM	F1.1: STANDARD	0"	0"	01	--	PASSAGE SET, CONTINUOUS HINGE	
4142	EXAM	CORRIDOR	SW1	3'-8"	7'-0"	VD	3'-8"	0"	P1.1: FLUSH	--	HM	F1.1: STANDARD	0"	0"	01	--	PASSAGE SET, CONTINUOUS HINGE	
4143	CORRIDOR	EXAM	SW1	3'-8"	7'-0"	VD	3'-8"	0"	P1.1: FLUSH	--	HM	F1.1: STANDARD	0"	0"	01	--	PASSAGE SET, CONTINUOUS HINGE	
4145	CORRIDOR	EXAM	BP1	3'-8"	7'-2"	VD	3'-8"	0"	P1.1: FLUSH	--	AL	F4.2: AD SYSTEMS FRAME	0"	0"	08	--	PASSAGE SET	
4146	CORRIDOR	PT. TLT.	SW1	3'-8"	7'-0"	VD	3'-8"	0"	P1.1: FLUSH	--	HM	F1.1: STANDARD	0"	0"	06	--	PRIVACY LOCKSET, RESCUE HARDWARE	
4147	EXAM	CORRIDOR	SW1	3'-8"	7'-0"	VD	3'-8"	0"	P1.1: FLUSH	--	HM	F1.1: STANDARD	0"	0"	01	--	PASSAGE SET, CONTINUOUS HINGE	
4148	CORRIDOR	WORKROOM	SW1	3'-0"	7'-0"	VD	3'-0"	0"	P1.1: FLUSH	--	HM	F1.1: STANDARD	0"	0"	01	--	PASSAGE SET	
4150	CORRIDOR	CHECK-IN CHECK OUT	SW1	3'-0"	7'-0"	VD	3'-0"	0"	P1.1: FLUSH	--	HM	F1.1: STANDARD	0"	0"	01	--	PASSAGE SET	
4150A	CORRIDOR	CHECK-IN CHECK OUT	SW1	3'-0"	7'-0"	VD	3'-0"	0"	P1.1: FLUSH	--	HM	F1.1: STANDARD	0"	0"	01	--	OFFICE LOCKSET	
4151	CORRIDOR	EXAM	SW1	3'-8"	7'-0"	VD	3'-8"	0"	P1.1: FLUSH	--	HM	F1.1: STANDARD	0"	0"	01	--	PASSAGE SET, CONTINUOUS HINGE	
4153	CORRIDOR	EXAM	BP1	3'-8"	7'-2"	VD	3'-8"	0"	P1.1: FLUSH	--	AL	F4.2: AD SYSTEMS FRAME	0"	0"	08	--	PASSAGE SET	
4154	CORRIDOR	EXAM	SW1	3'-8"	7'-0"	VD	3'-8"	0"	P1.1: FLUSH	--	HM	F1.1: STANDARD	0"	0"	01	--	PASSAGE SET, CONTINUOUS HINGE, AUTO OPENER, CARD READ/REMOTE RELEASE IN, TOUCHLESS ACTUATOR OUT, TIED TO FIRE ALARM FOR EGRESS PURPOSES	
C4100	CORRIDOR	WAITING	SW1	3'-8"	7'-0"	VD	3'-8"	0"	P1.1: FLUSH	--	HM	F1.1: STANDARD	0"	0"	01	--	CARD READ AFTER HOURS	
C4106	CORRIDOR	LOBBY	SW1	3'-8"	7'-0"	VD	3'-8"	0"	P1.1: FLUSH	--	HM	F1.1: STANDARD	0"	0"	01	--	CARD READ IN, PROVIDE CLOSER	
L4000	WAITING	LOBBY	SW2	6'-0"	7'-0"	VD	3'-0"	3'-0"	P2.1a: VISION LITE NARROW	P2.1b: VISION LITE NARROW	HM	F1.1: STANDARD	0"	0"	01	G1	--	CARD READ AFTER HOURS

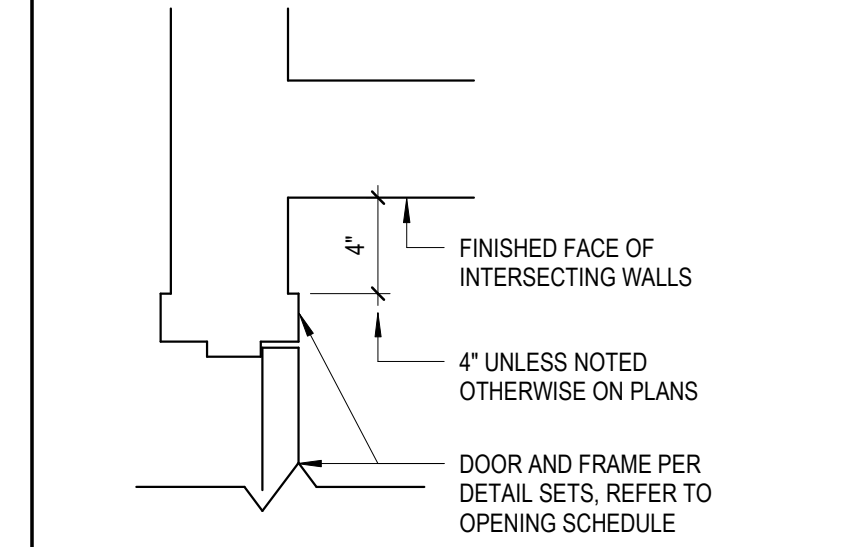
OPENING SCHEDULE GENERAL NOTES

- REFER TO PROJECT MANUAL FOR DOOR HARDWARE INFORMATION
- SLIDING DOORS ARE SIZED INSIDE TO INSIDE
- REFER TO ELECTRICAL WIRING DIAGRAMS OF POWERED OPENINGS FOR ADDITIONAL INFORMATION

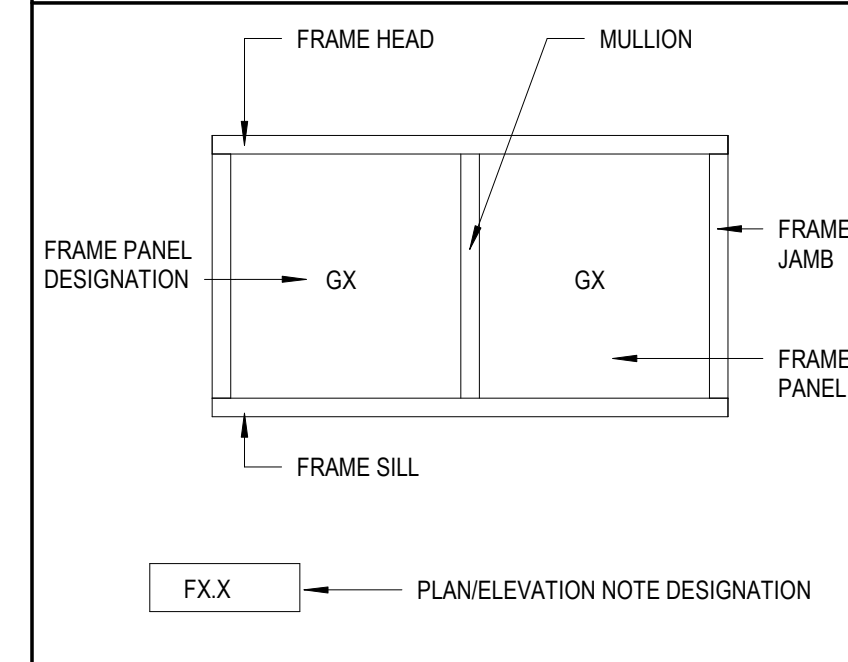
GLASS TYPES

- G1 SAFETY GLASS (FROSTED FILM)
- G2 SAFETY GLASS (FROSTED FILM)
- G3 DECORATIVE GLASS

DOOR FRAME LOCATION



FRAME COMPONENT DIAGRAM



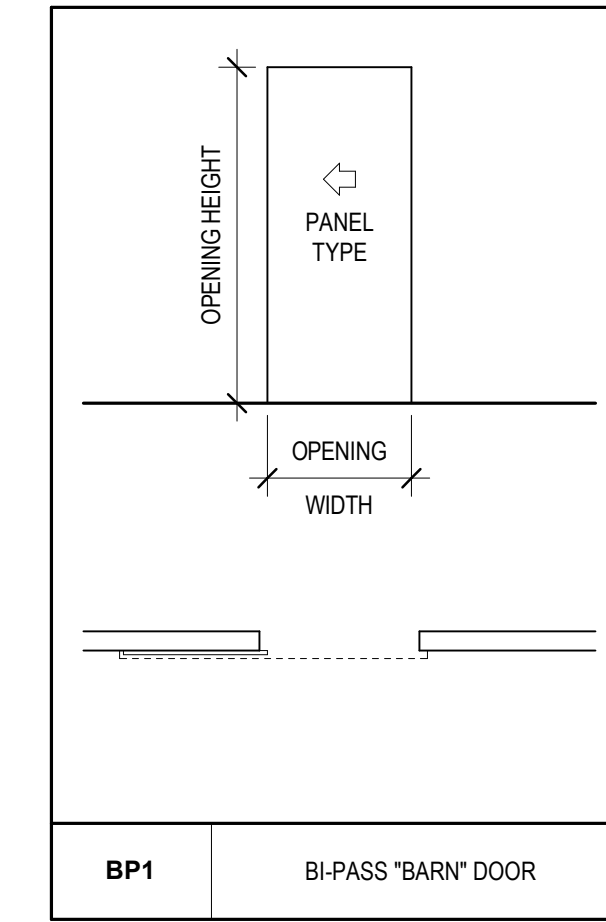
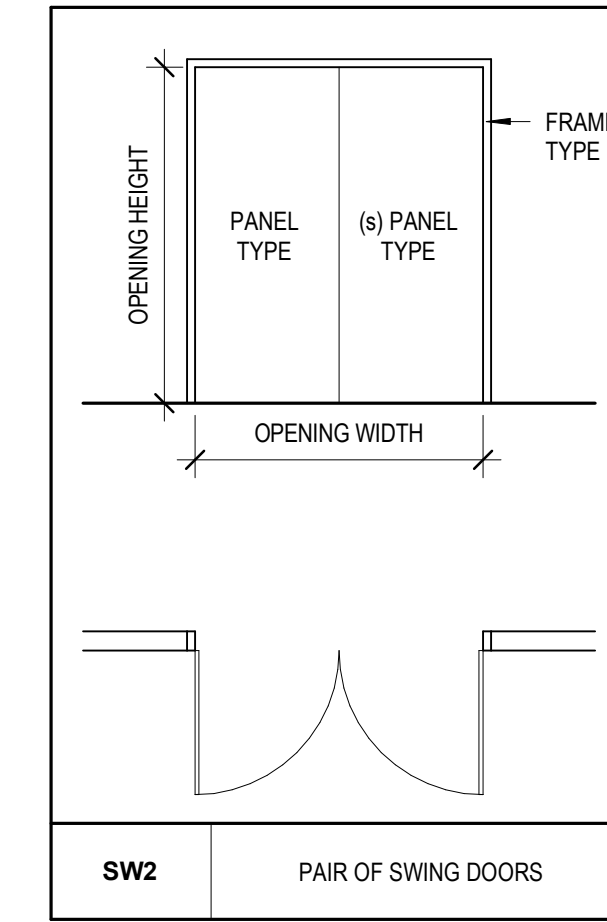
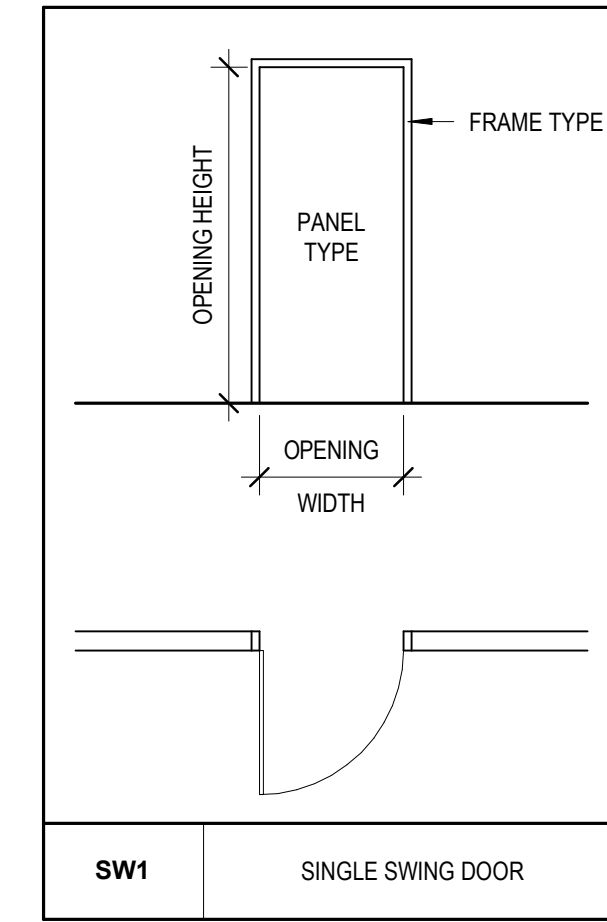
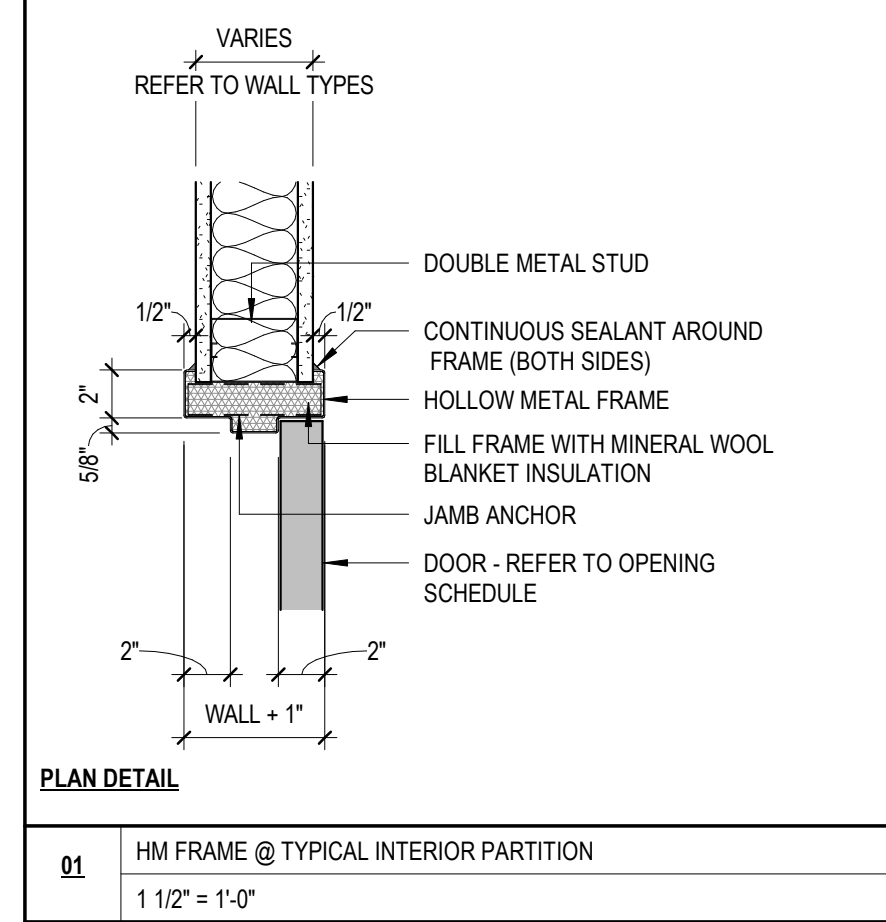
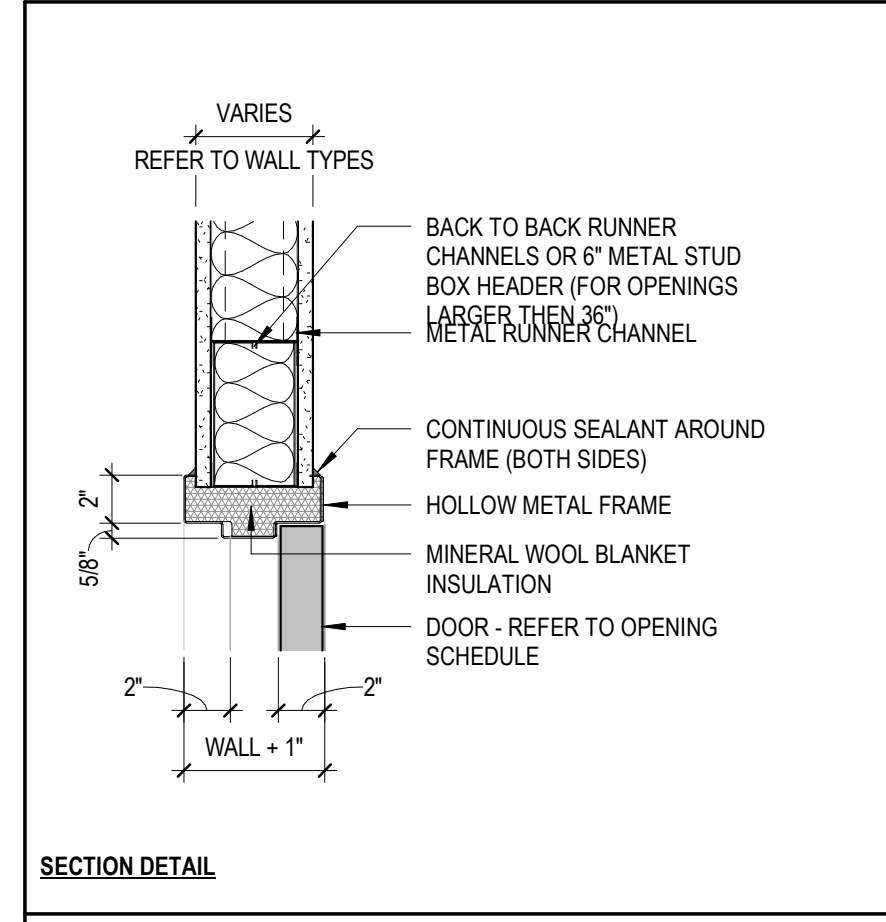
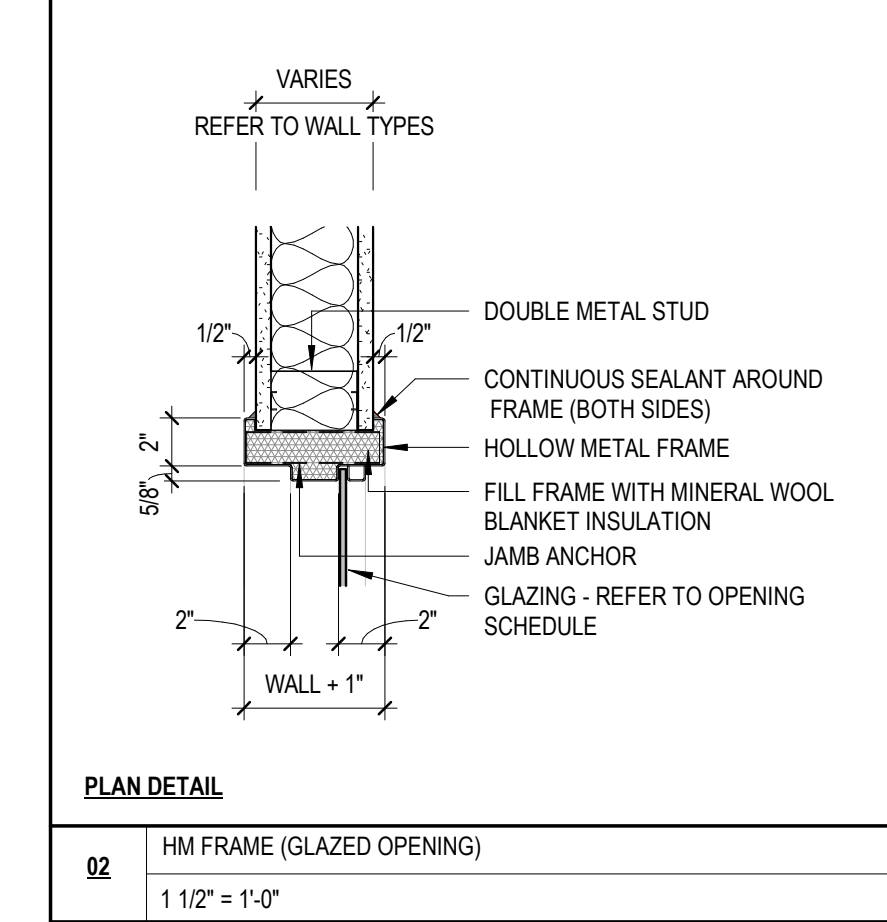
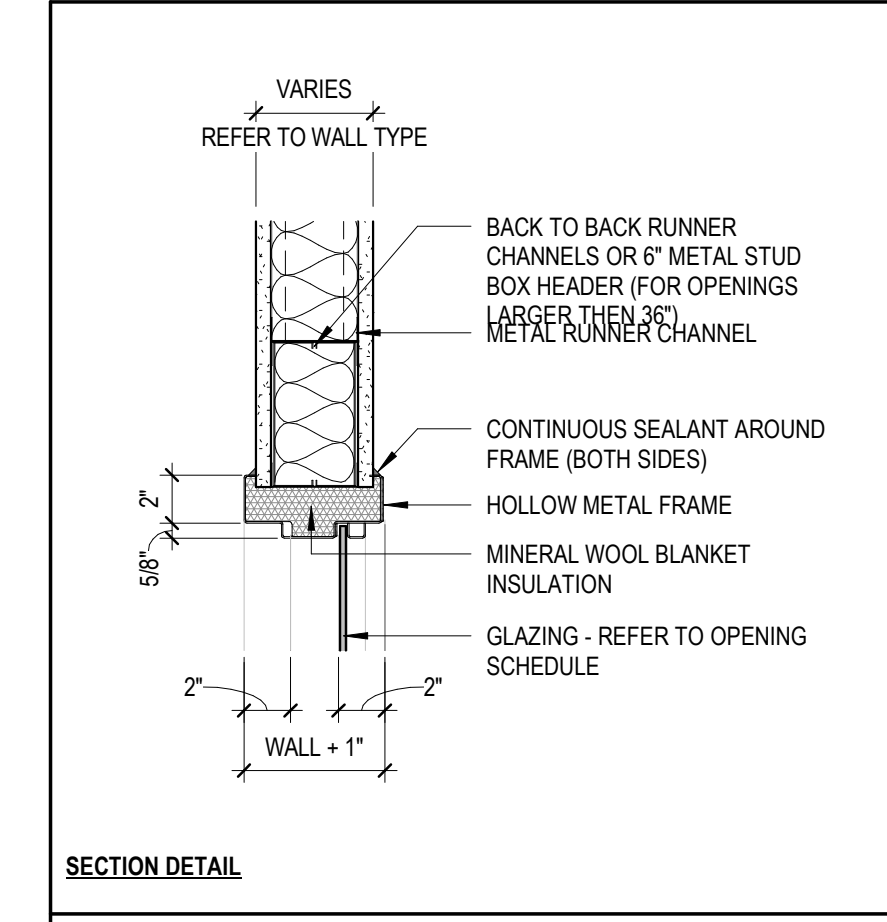
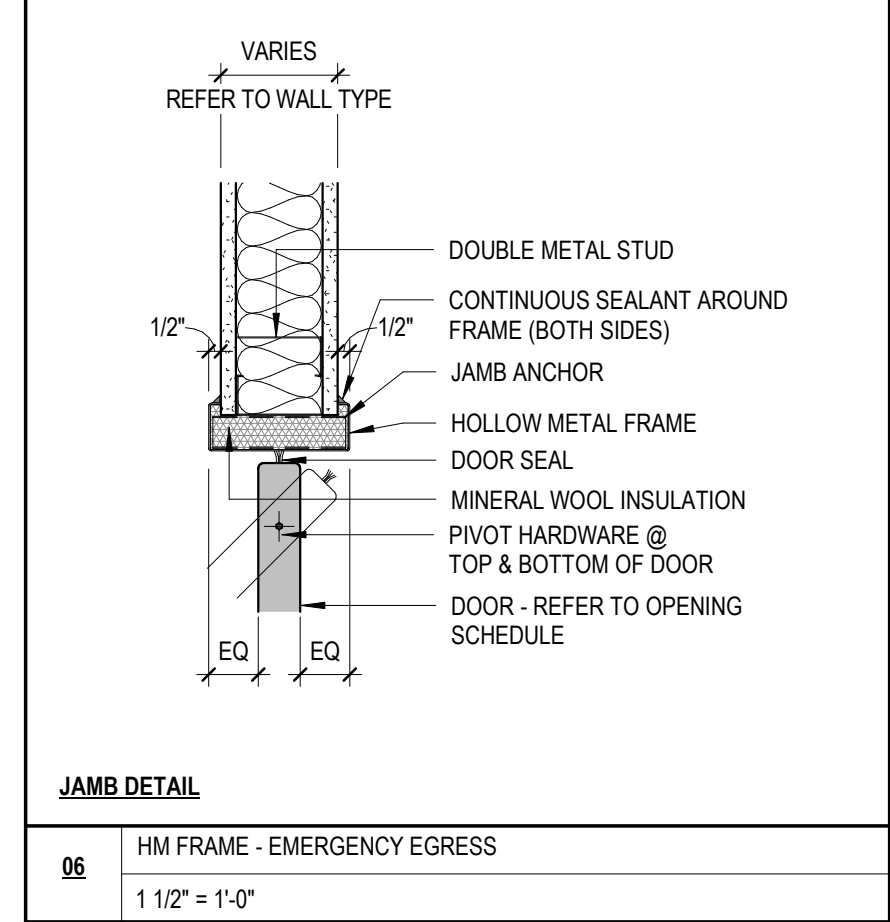
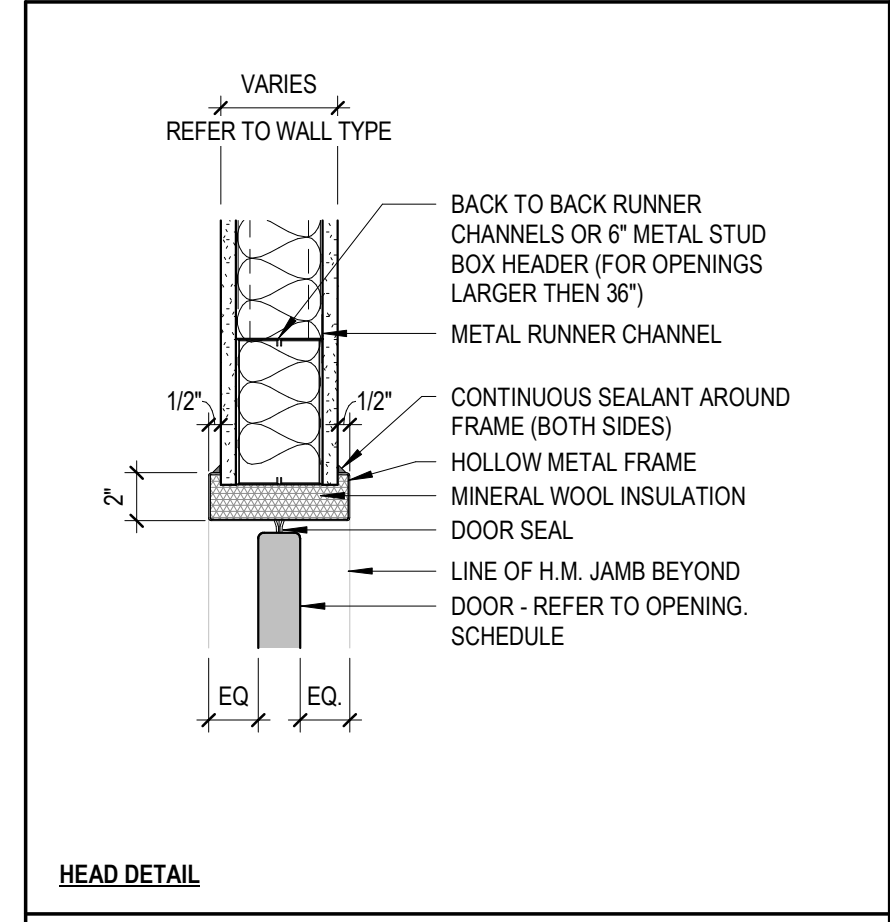
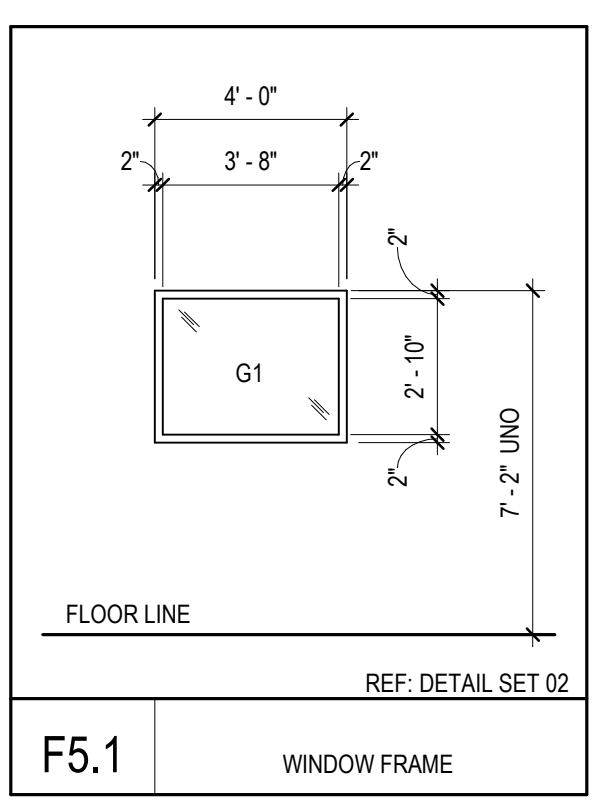
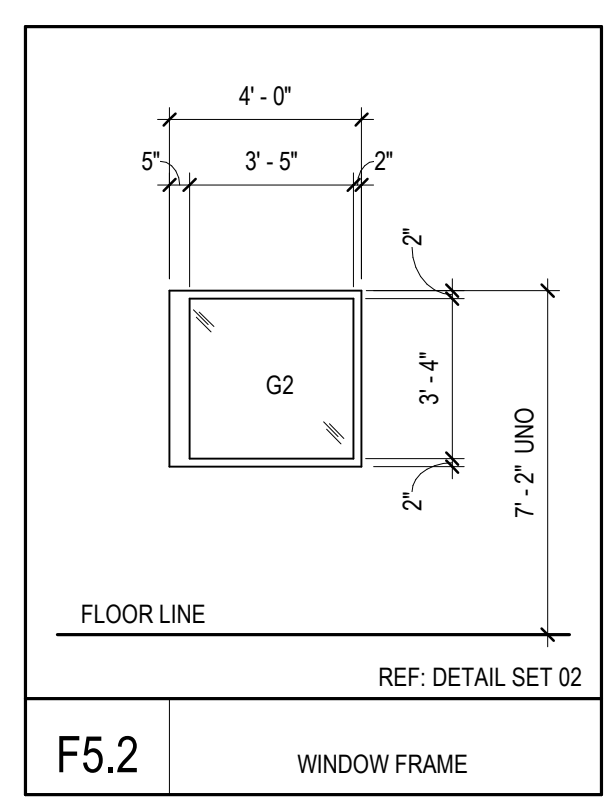
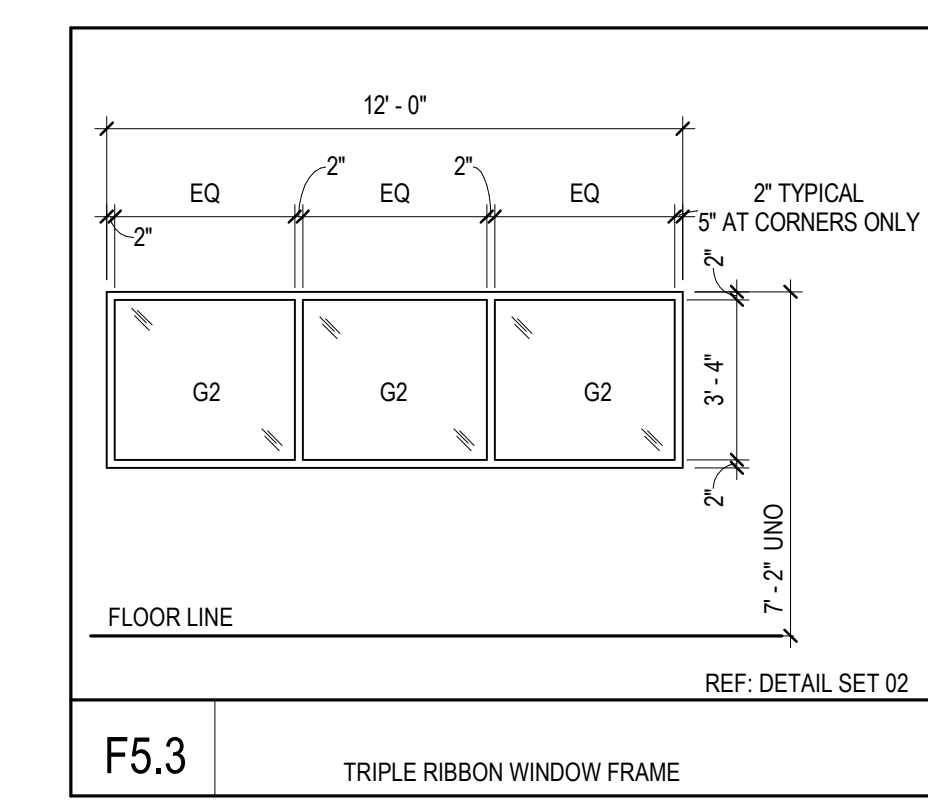
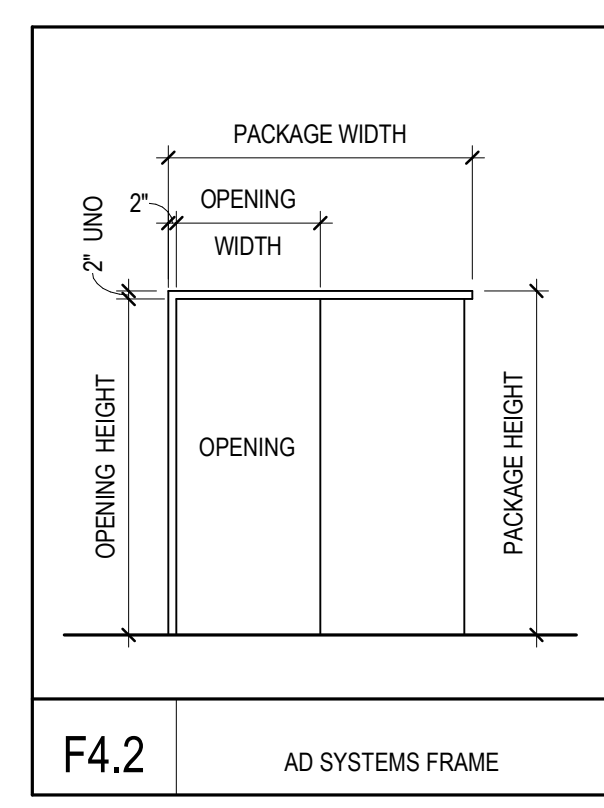
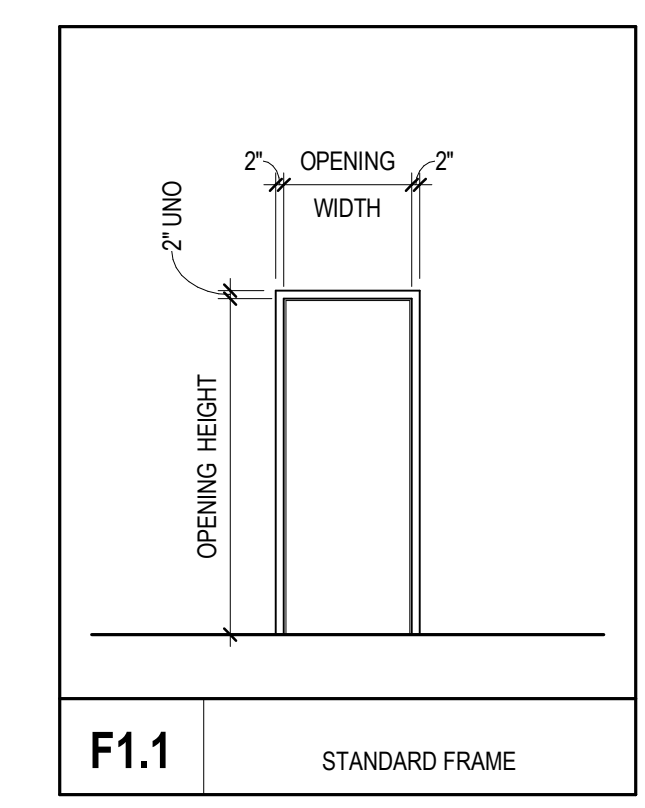
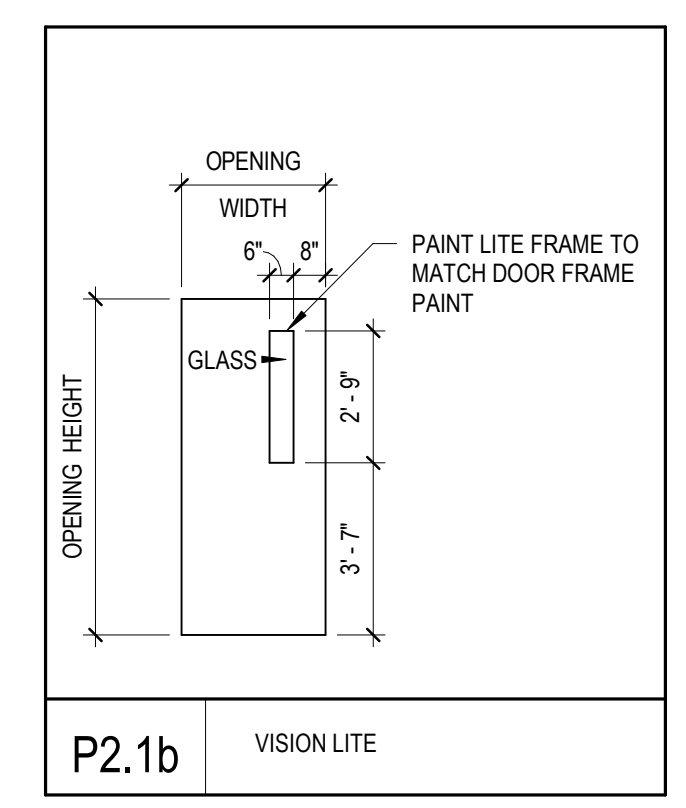
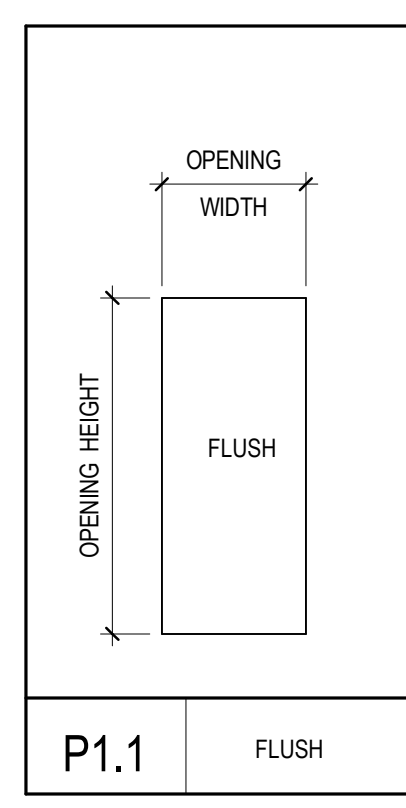
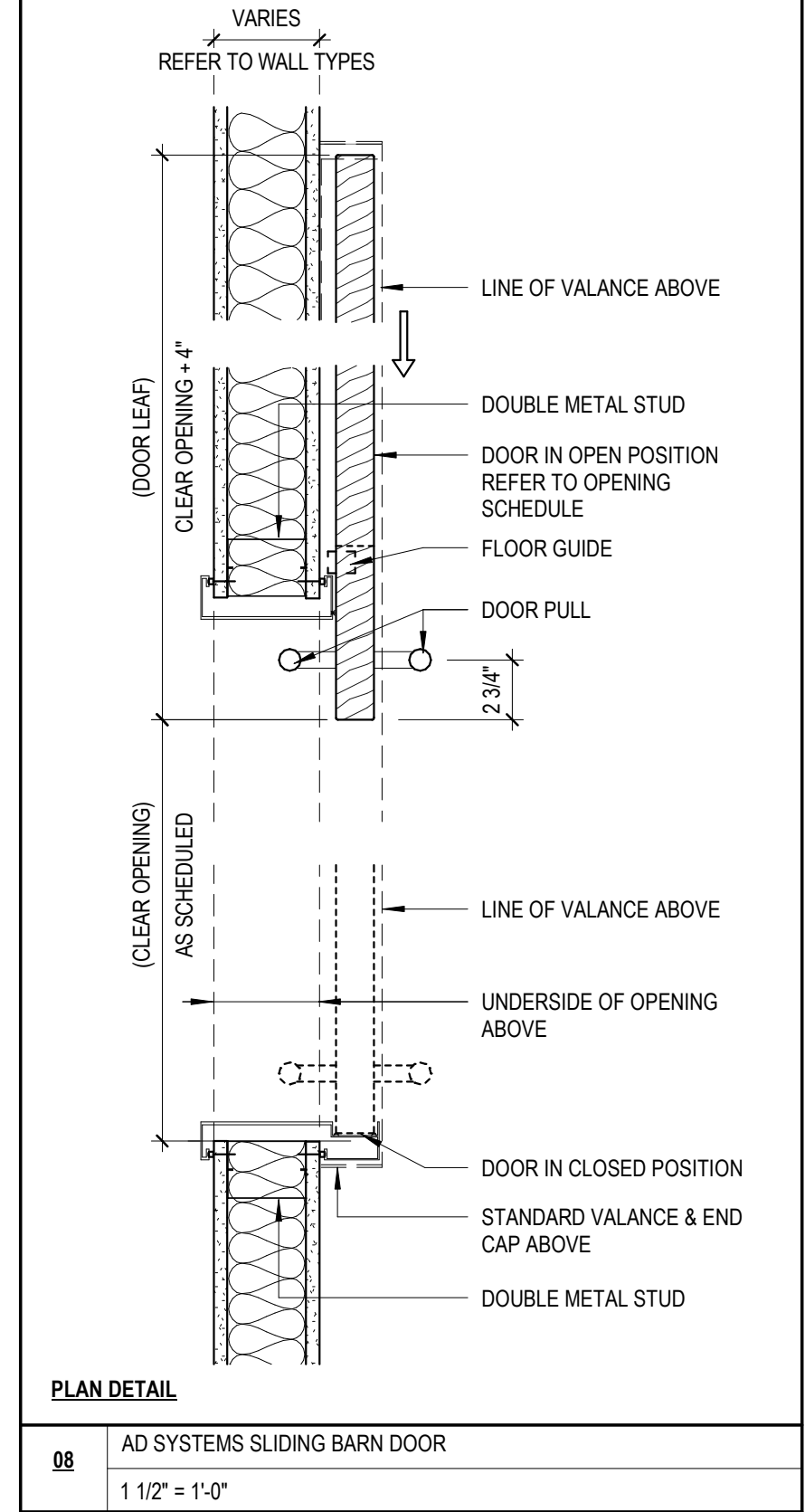
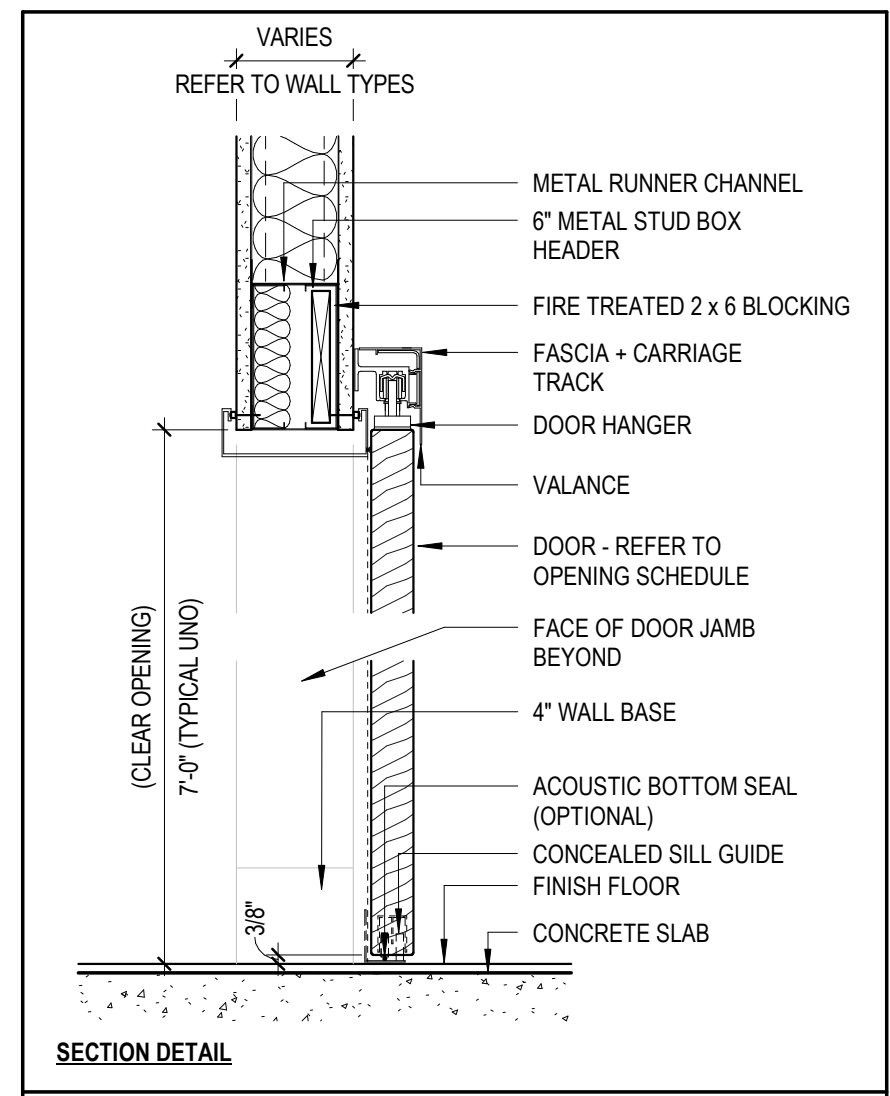
BSA
BSA LifeStructures
12645 Olive Blvd, Suite 227
Creve Coeur, MO 63141
ph 314.754.6306 fx 314.754.4452
Architectural Registration Number - 2003010309

Ross & Baruzzini
MEP ENGINEERING:
Ross & Baruzzini
6 S Old Orchard Ave
St. Louis, MO 63119
ph 314.918.8383 www.rossbar.com
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A Custom Engineering Company
LIGHTING ENGINEERING:
Timberlake Engineering
912 Old Highway 63 South
Columbia, MO 65201
ph 573.875.4365 ext 209 www.customengr.com
Missouri State Certificate of Authority #000239

Health Care
MU PROJECT NO. - CP221944
UNIVERSITY PHYSICIANS MEDICAL BUILDING (UPMB) - 4TH FLOOR - MOA CLINIC RENOVATION
1020 Hitt St, Columbia, MO 65212

BID SET



MARK	DATE	DESCRIPTION
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I hereby certify these drawings and/or specifications have been prepared by me, or under my supervision, I further certify that to the best of my knowledge these drawings and/or specifications are as required by and in compliance with the Building Codes of the University of Missouri.



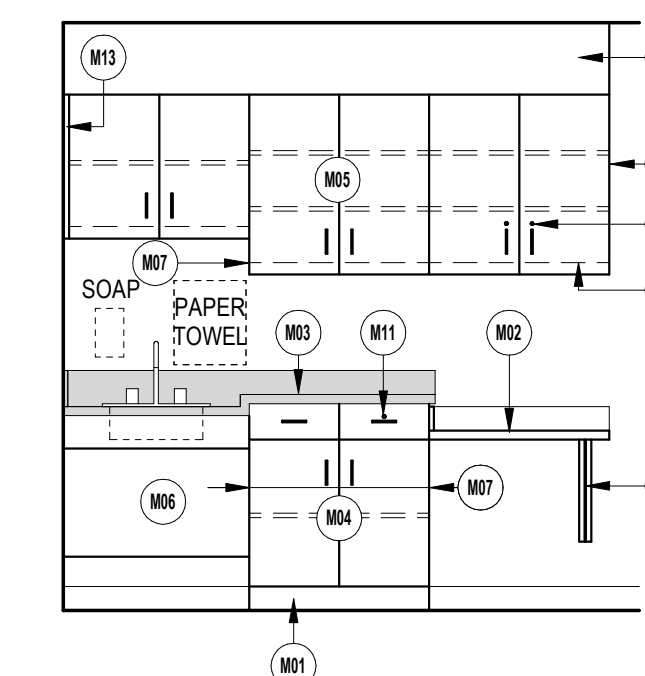
OPENING SCHEDULE, ELEVATIONS, AND DETAILS

DATE: 3 OCTOBER 2022
BSALS PROJECT NO.: 14110005

A500

9/29/2022 11:27:54 AM
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 User: Niyanta Gopal
 APPROVED: Niyanta Gopal

CASEWORK LEGEND



*LEGEND INDICATES GRAPHIC REPRESENTATION OF CASEWORK ELEMENTS, NOT A TYPICAL LAYOUT.
*ALL NOTES ARE TYPICAL UNLESS OTHERWISE NOTED (UNO) AND EVERY INSTANCE MAY NOT BE NOTED ON INTERIOR ELEVATIONS.

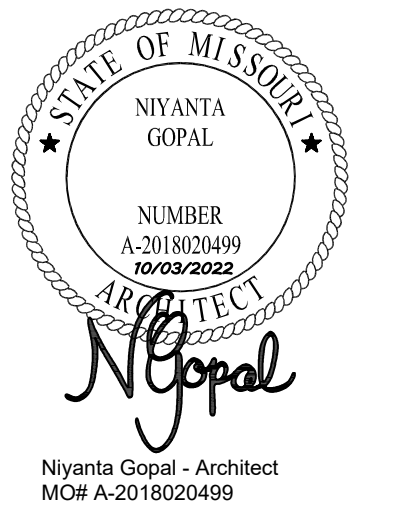
KEYNOTE LEGEND

MARK	DESCRIPTION
M01	4" (UNO) FINISHED BASE, REFER TO INTERIOR FINISH PLAN.
M02	PLASTIC LAMINATE COUNTERTOP WITH SIDE AND BACK SPLASHES, AS INDICATED. COUNTERTOP DEPTH EQUALS BASE CABINET AND CABINET DOORS PLUS 1".
M03	SOLID SURFACE COUNTERTOP (SHADED) WITH SIDE AND BACK SPLASHES, AS INDICATED. COUNTERTOP DEPTH EQUALS BASE CABINET AND CABINET DOORS PLUS 1".
M04	24" DEEP (UNO) BASE CABINET (INCLUDING DOORS), CONFIGURE DOORS, DRAWERS, LOCKS AND SHELVES AS INDICATED.
M05	12" CLEAR INTERIOR DIMENSION (UNO) WALL CABINET, CONFIGURE DOORS, LOCKS AND ADJUSTABLE SHELVES AS INDICATED.
M06	ACCESSIBLE (BARRIER FREE) SINK SKIRT ASSEMBLY WITH REMOVABLE PANEL.
M07	FINISHED END PANEL - TYPICAL ALL VISIBLE SURFACES.
M08	COUNTER SUPPORT BRACKET @ 48" O.C. MAXIMUM.
M10	PLASTIC LAMINATE BULKHEAD, FINISH FACE OF BULKHEAD TO BE ALIGNED WITH FINISHED FACE OF CASEWORK DOORS ON THE FRONT AND FINISHED FACE OF CASEWORK BOX ON THE SIDES.
M11	CASEWORK LOCK, WHERE INDICATED.
M12	2" DEEP LIGHT SKIRT, WHERE INDICATED.
M13	FILLER PANEL (FP), WHEN CASEWORK DOES NOT ABUT AN ADJACENT WALL A FILLER PANEL IS REQUIRED. RETURN FINISHED FILLER ACROSS BOTTOM OF CASEWORK TO BACK WALL.
M17	PROVIDE METAL TRIM, SCHLUTER RONDEC, OR SIMILAR AT TERMINATION OF TILE.
M18	OWNER PROVIDED FURNITURE.
M19	LIGHT SWITCH, REF ELEC. DWGS.
M20	NURSE CALL, REF ELEC. DWGS.
M21	PROVIDE MAGNETIC LOCK AT UPPER CABINET.
M22	FINISHED END AT 4141.
M23	FINISHED END AT 4147, 4119, 4131, 4252.
M24	12" DEEP PLASTIC LAMINATE SHELF MOUNTED WITH STANDARDS AND BRACKETS.
M25	UTILITY SINK, REFER TO PLUMBING DRAWINGS.



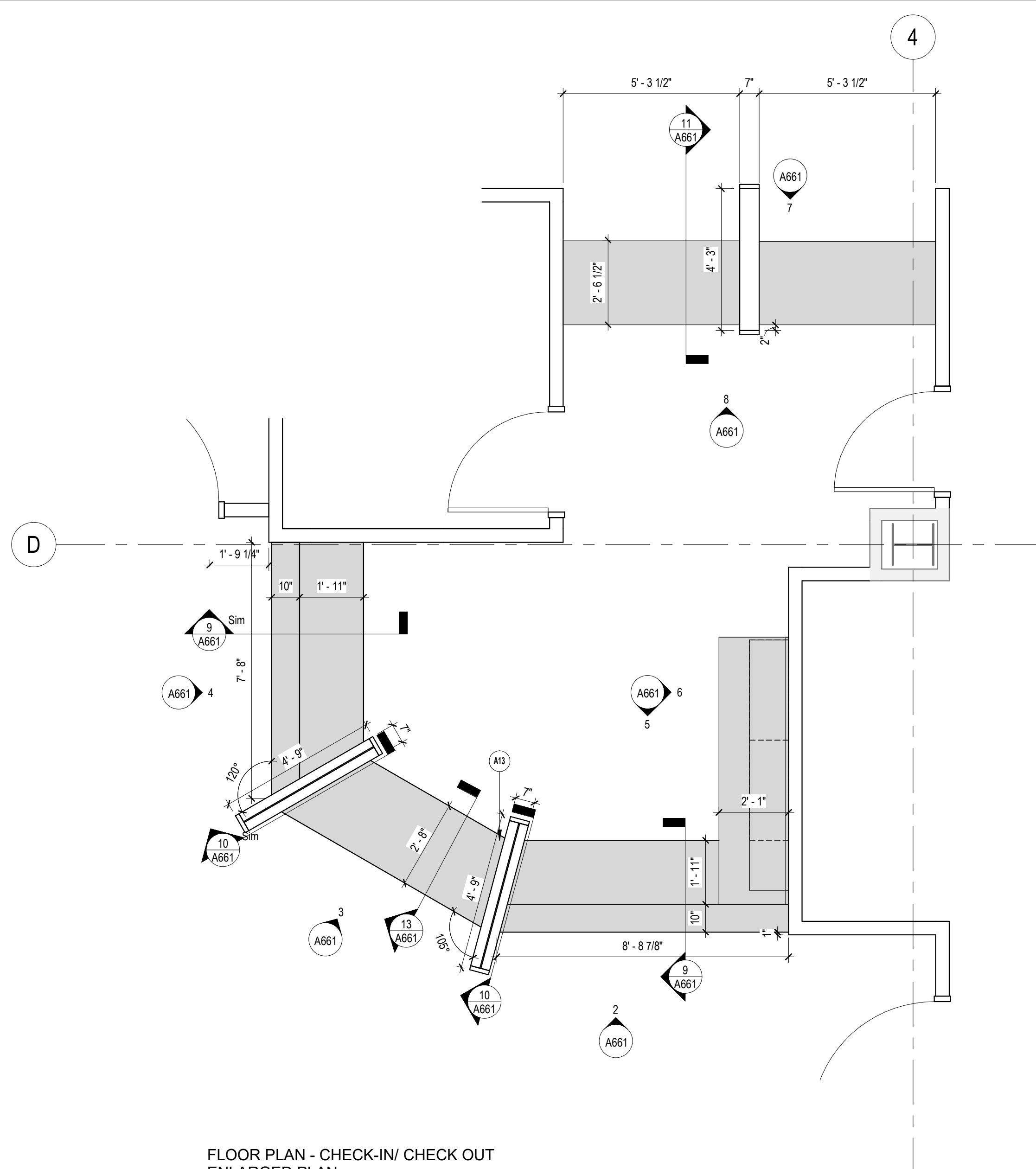
MARK	DATE	DESCRIPTION

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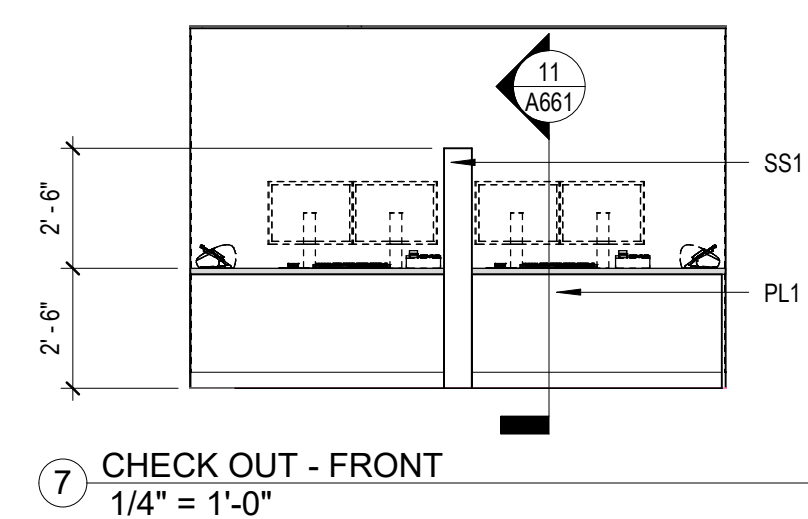


INTERIOR ELEVATIONS

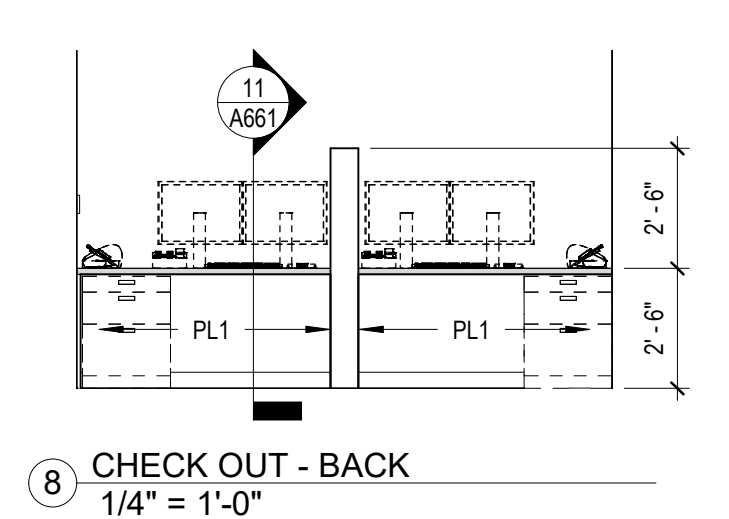
DATE	3 OCTOBER 2022
BSALS PROJECT NO.	14110005



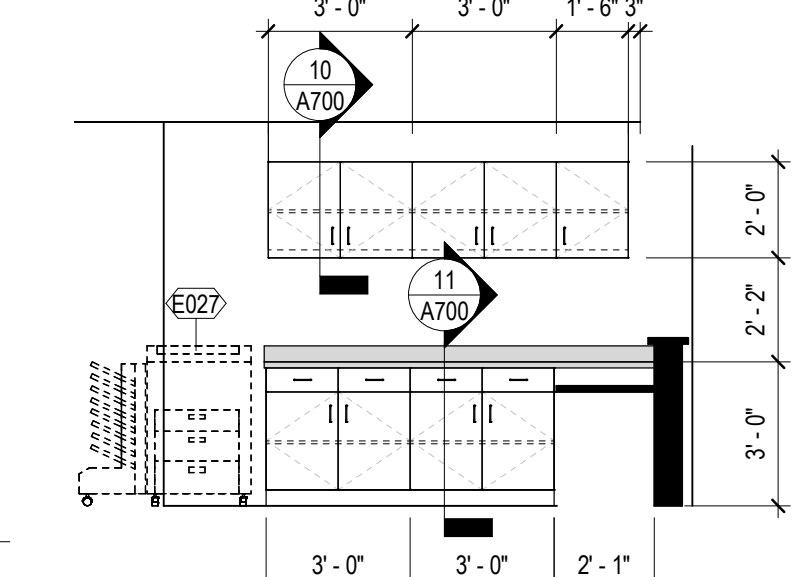
1 FLOOR PLAN - CHECK-IN/ CHECK OUT
ENLARGED PLAN
3/8" = 1'-0"



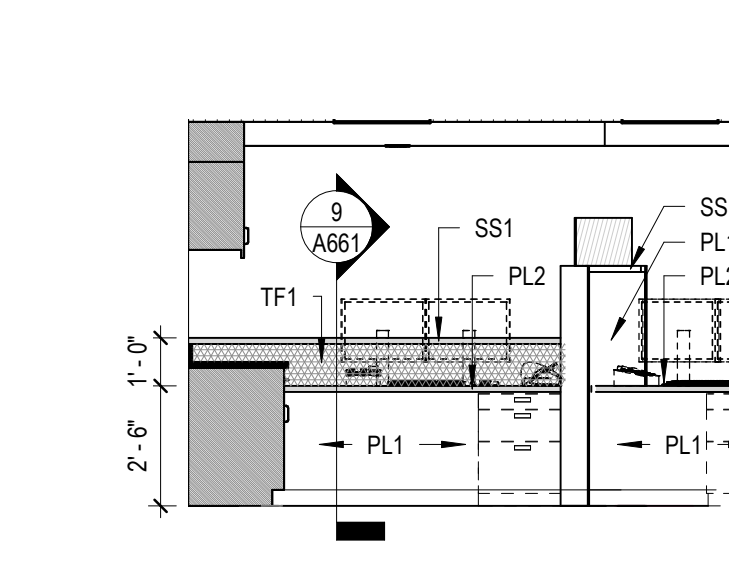
7 CHECK OUT - FRONT
1/4" = 1'-0"



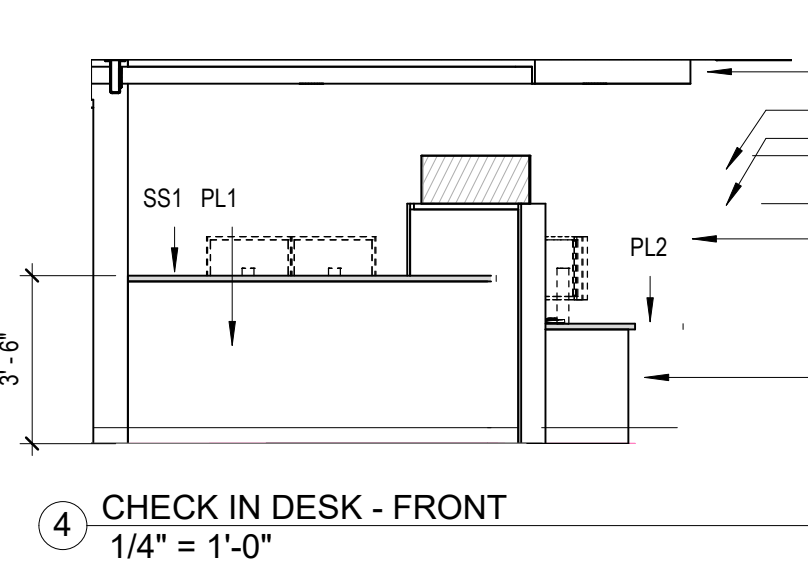
8 CHECK OUT - BACK
1/4" = 1'-0"



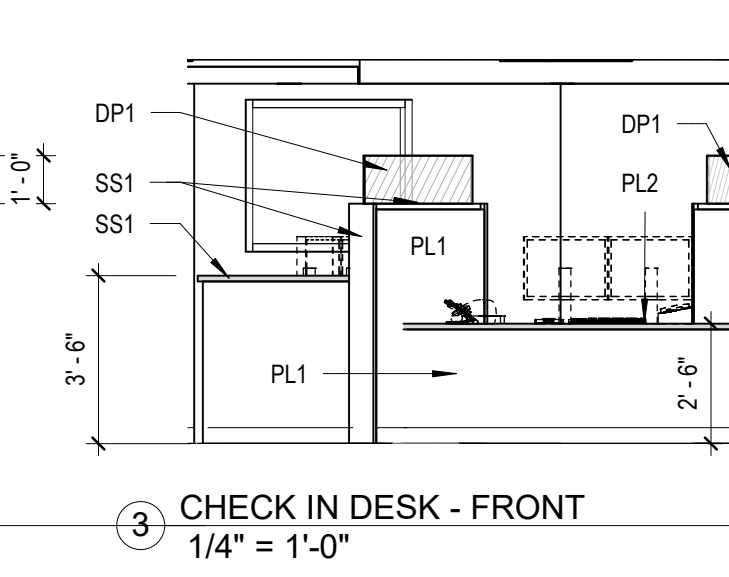
5 CHECK IN- STORAGE
1/4" = 1'-0"



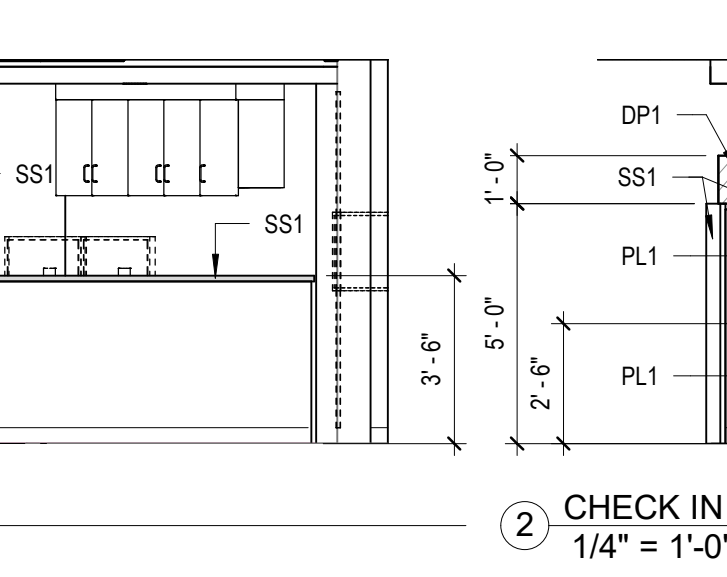
6 CHECK IN- DESK
1/4" = 1'-0"



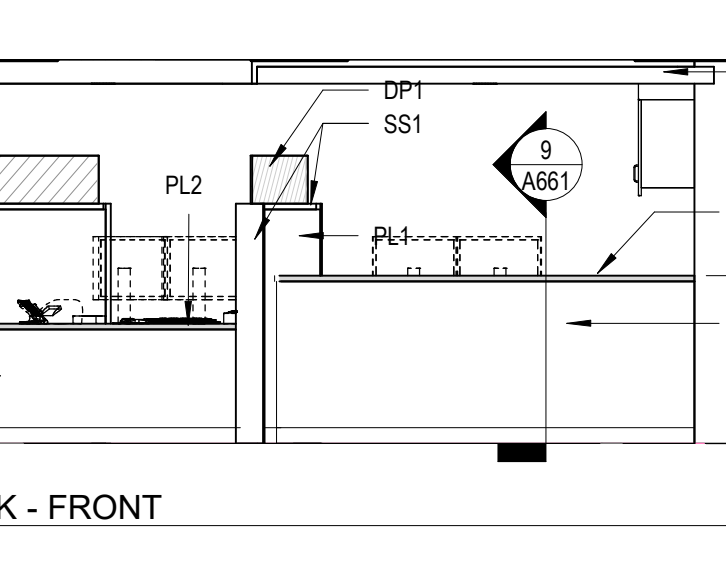
4 CHECK IN DESK - FRONT
1/4" = 1'-0"



3 CHECK IN DESK - FRONT
1/4" = 1'-0"



2 CHECK IN DESK - FRONT
1/4" = 1'-0"



1 CHECK IN DESK - FRONT
1/4" = 1'-0"

KEYNOTE LEGEND	REFER TO A600 FOR TYPICAL CASEWORK LEGEND
A13	PANIC BUTTON UNDER COUNTERTOP, OFOI

BSA
BSA LifeStructures
12645 Olive Blvd, Suite 227
Creve Coeur, MO 63141
ph 314.754.6306 fx 314.754.4452
Architectural Registration Number - 2003010309

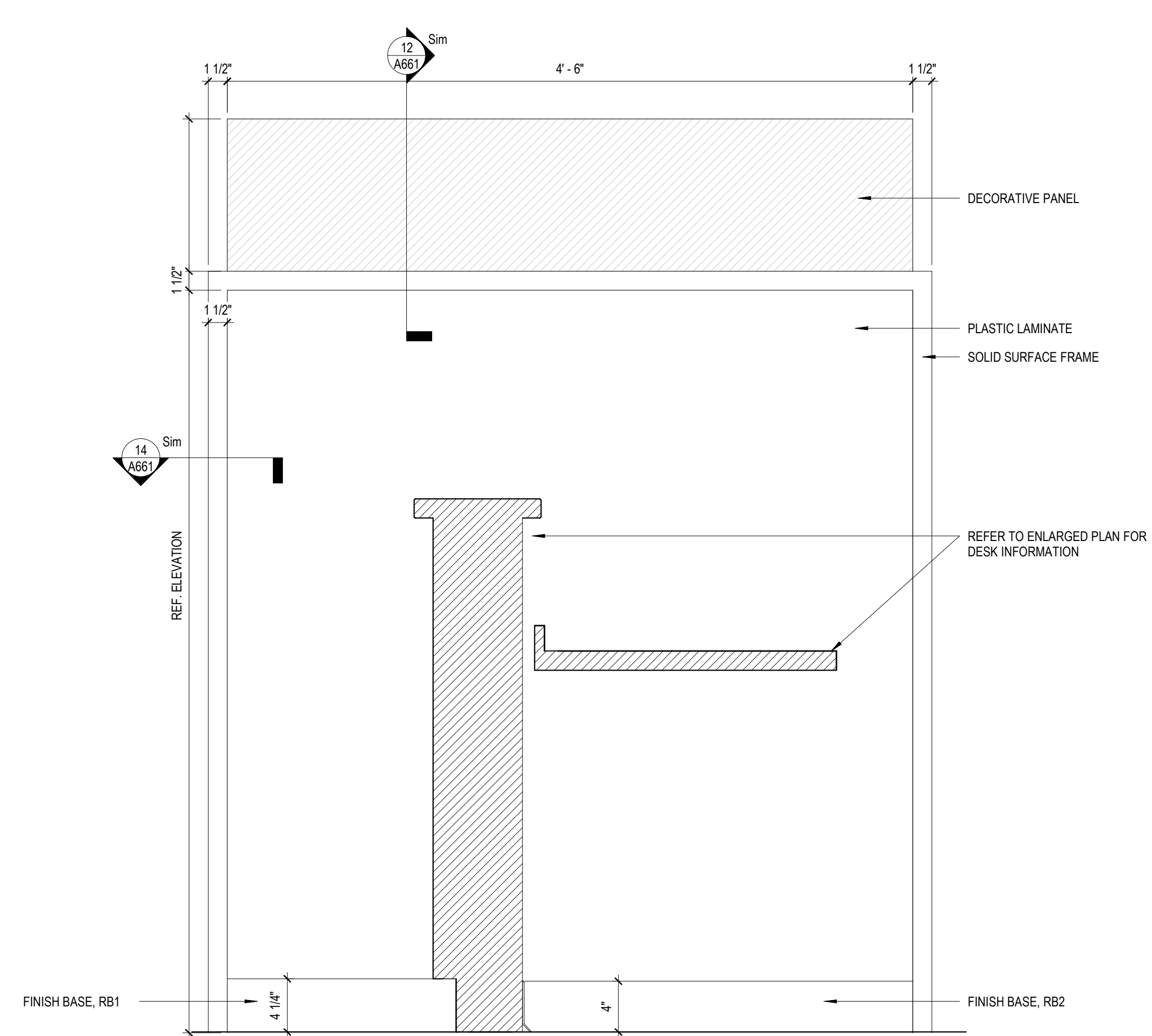
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6 S Old Orchard Ave
St. Louis, MO 63119
ph 314.918.8383 www.rossbar.com
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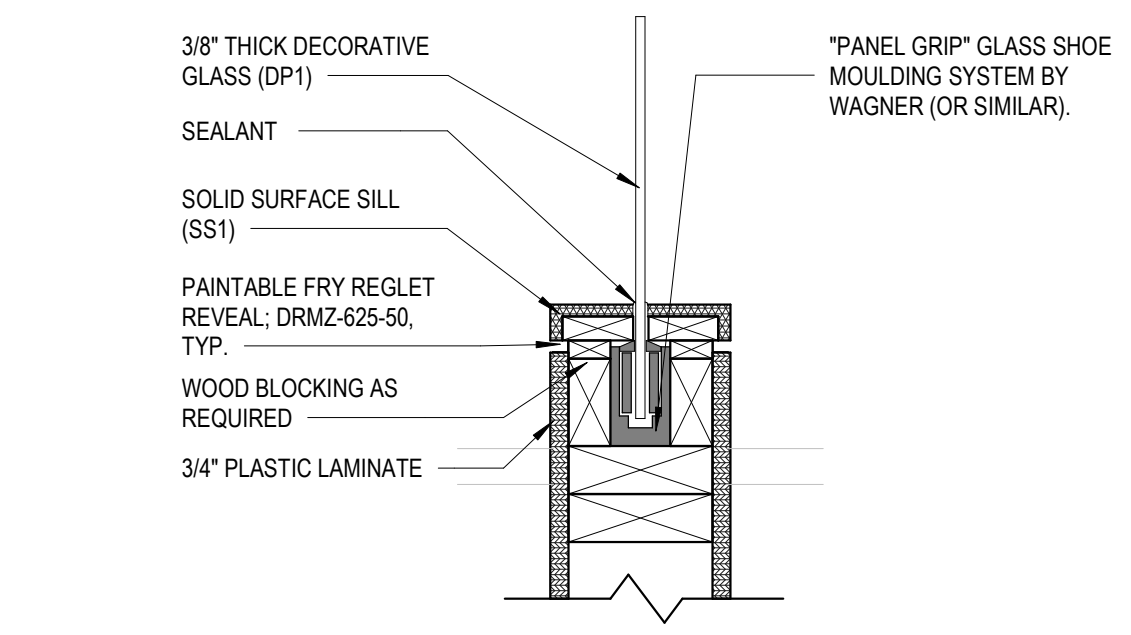
Health Care
MU PROJECT NO. - CP221944
**UNIVERSITY PHYSICIANS
MEDICAL BUILDING
(UPMB) - 4TH FLOOR -
MOA CLINIC RENOVATION**
1020 Hitt St, Columbia, MO 65212

BID SET

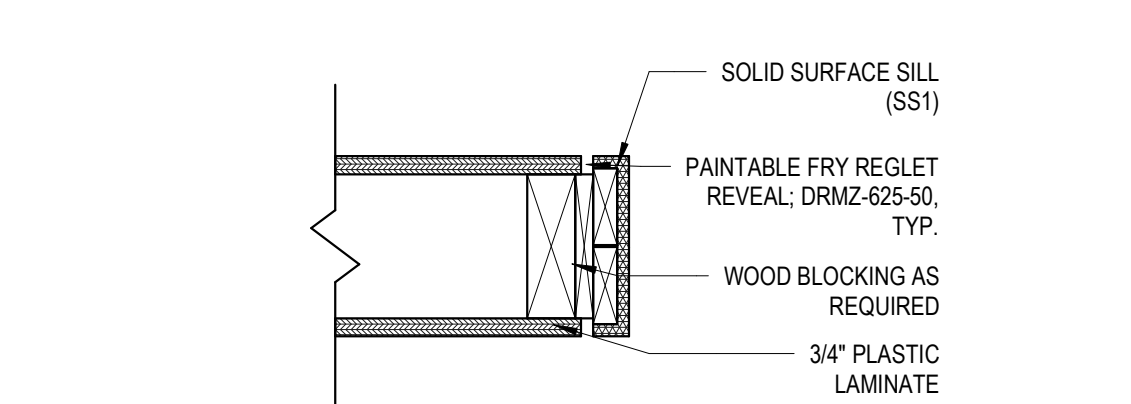
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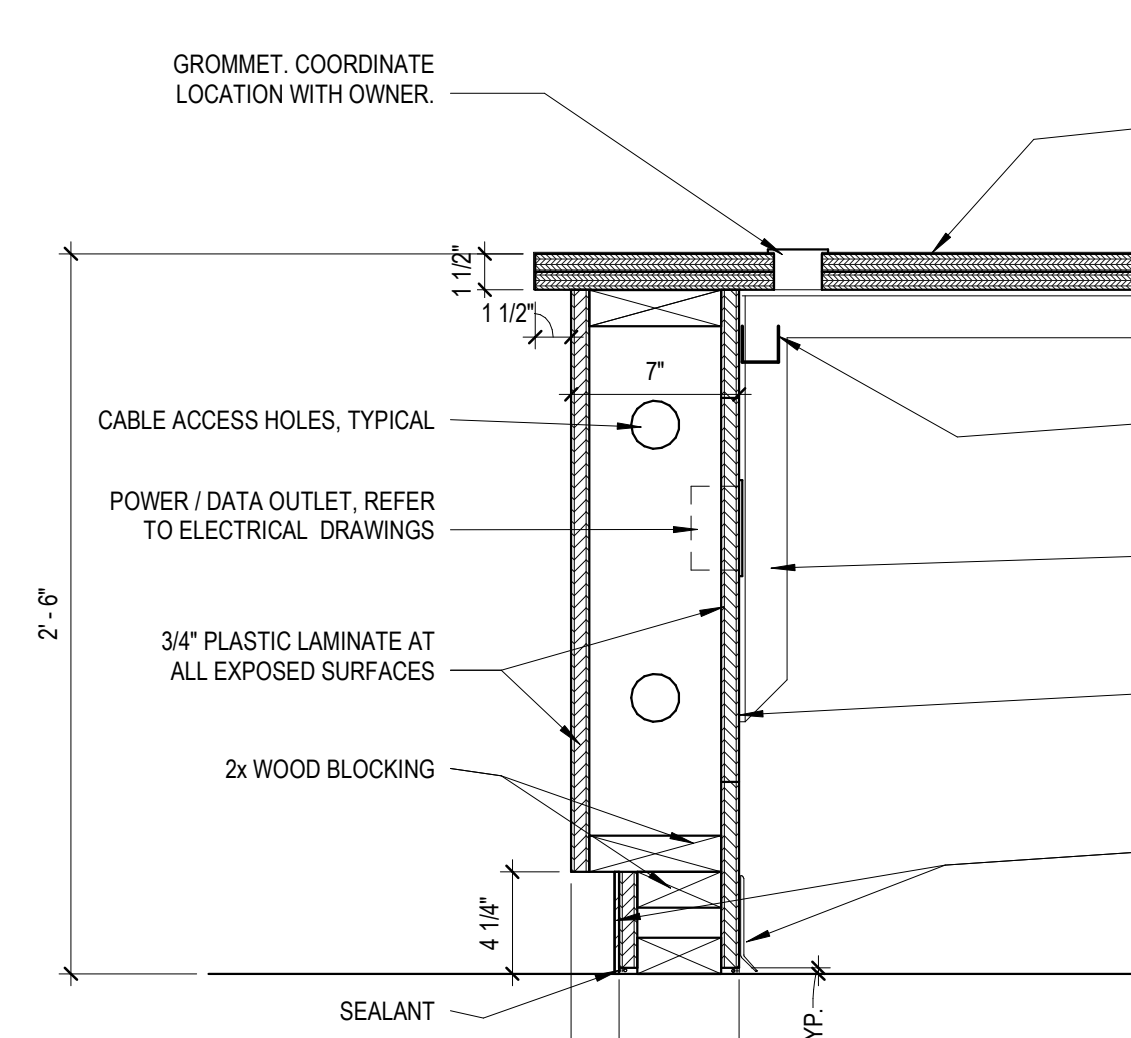
10 CHECK-IN DESK DIVIDER WALL
1 1/2" = 1'-0"



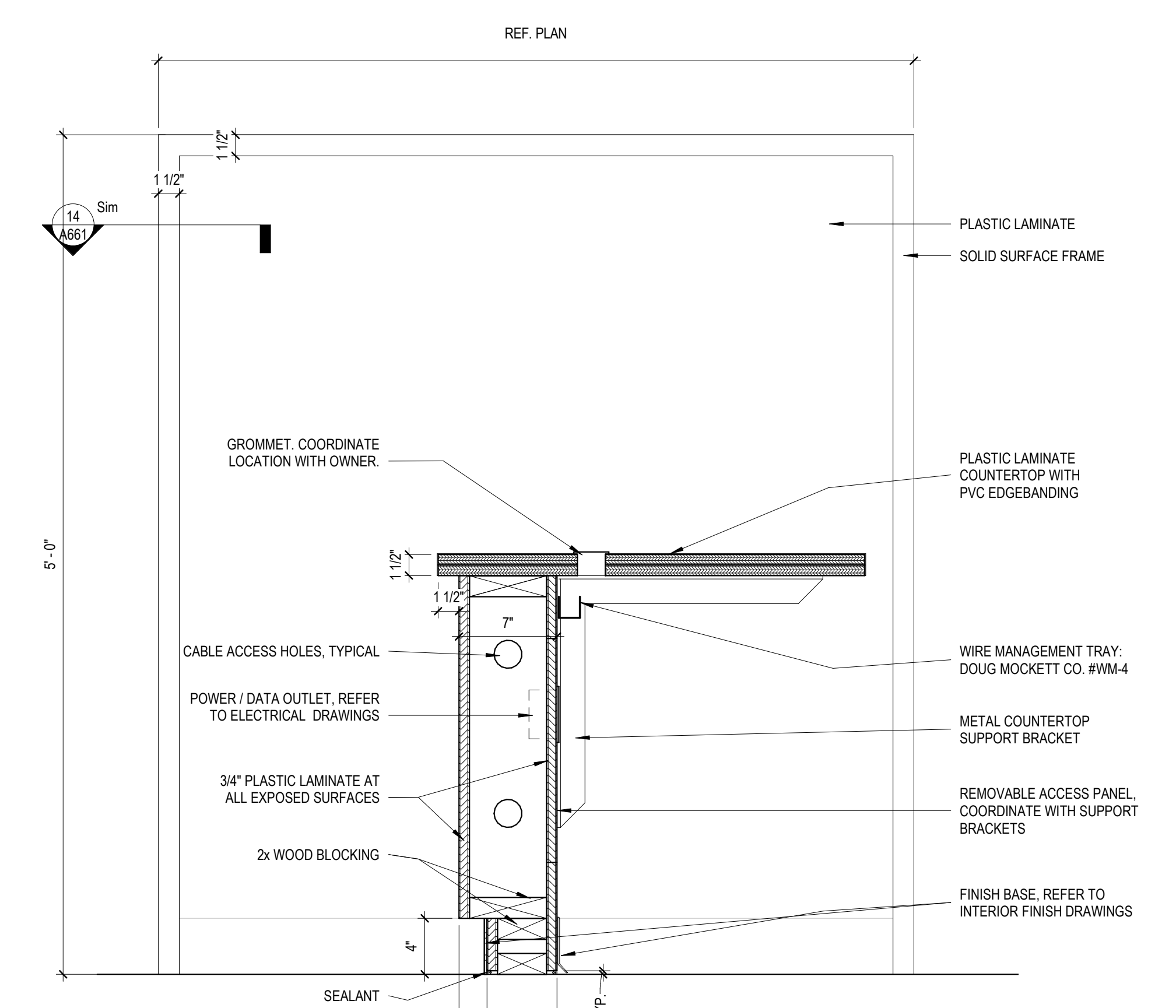
12 3/8" THICK DECORATIVE GLASS (DP1) SEALANT SOLID SURFACE SILL (SS1) PAINTABLE FRY REGLET REVEAL, DRMZ-625-50, TYP. WOOD BLOCKING AS REQUIRED 3/4" PLASTIC LAMINATE. 'PANEL GRIP' GLASS SHOE MOULDING SYSTEM BY WAGNER (OR SIMILAR).
12 3/8" THICK DECORATIVE GLASS (DP1) SEALANT SOLID SURFACE SILL (SS1) PAINTABLE FRY REGLET REVEAL, DRMZ-625-50, TYP. WOOD BLOCKING AS REQUIRED 3/4" PLASTIC LAMINATE. 'PANEL GRIP' GLASS SHOE MOULDING SYSTEM BY WAGNER (OR SIMILAR).
1 1/2" = 1'-0"



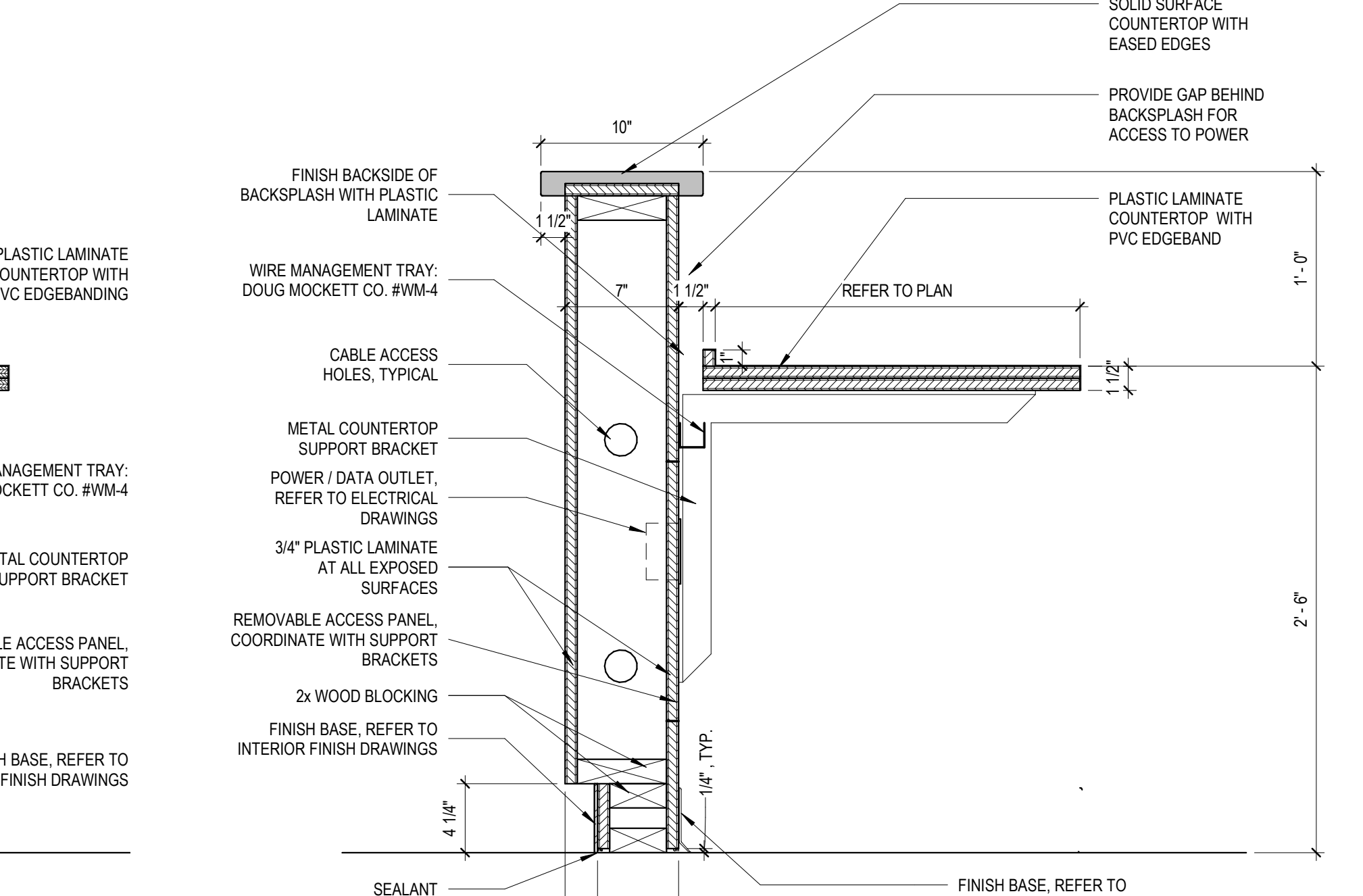
14 SOLID SURFACE CAP AT HALF HEIGHT WALL
1 1/2" = 1'-0"



13 CHECK-IN DESK AT ADA HEIGHT
1 1/2" = 1'-0"



11 CHECK-OUT DESK
1 1/2" = 1'-0"



9 CHECK-IN DESK AT TRANSACTION HEIGHT
1 1/2" = 1'-0"

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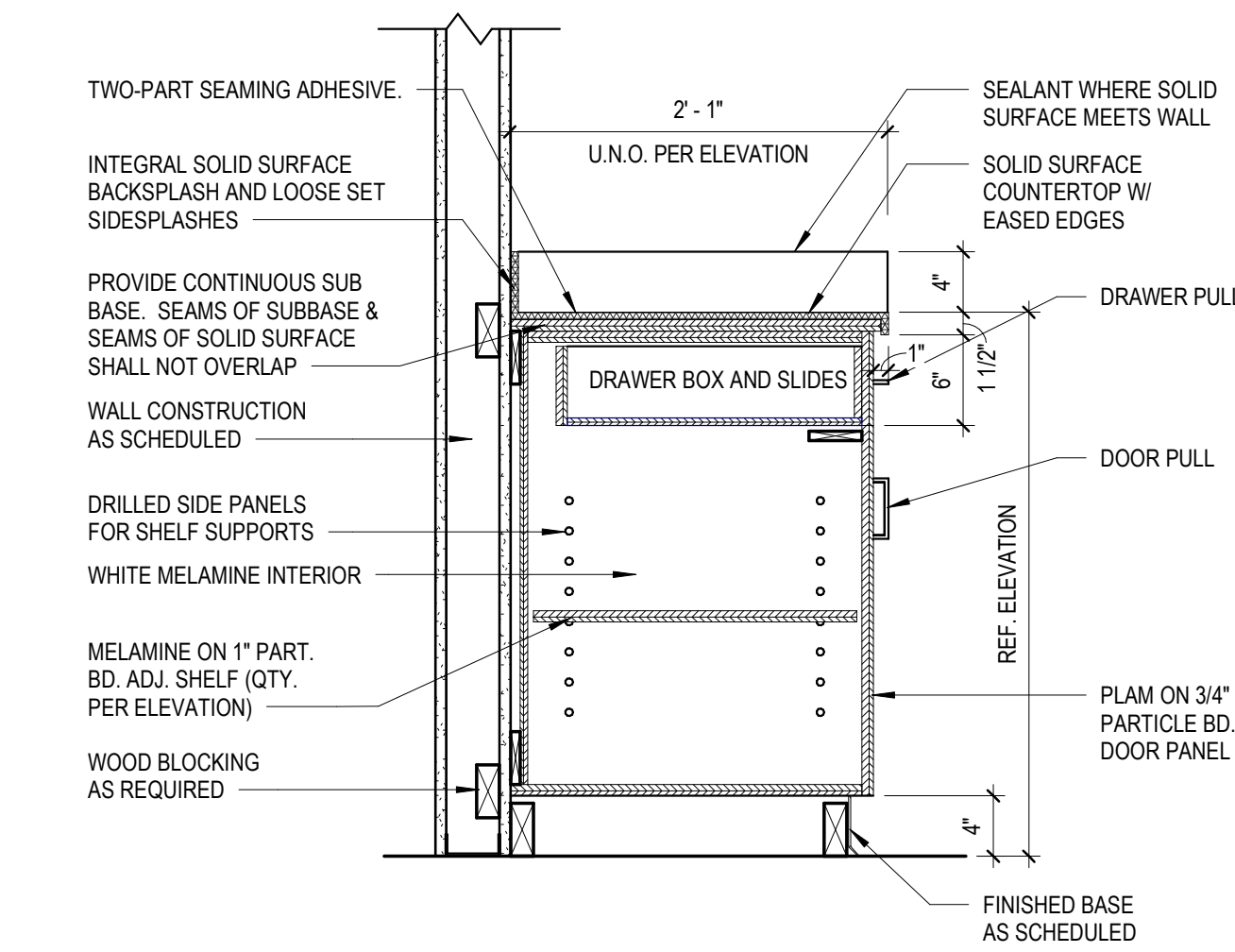
INTERIOR DETAILS - MILLWORK

DATE 3 OCTOBER 2022
BSALS PROJECT NO. 14110005

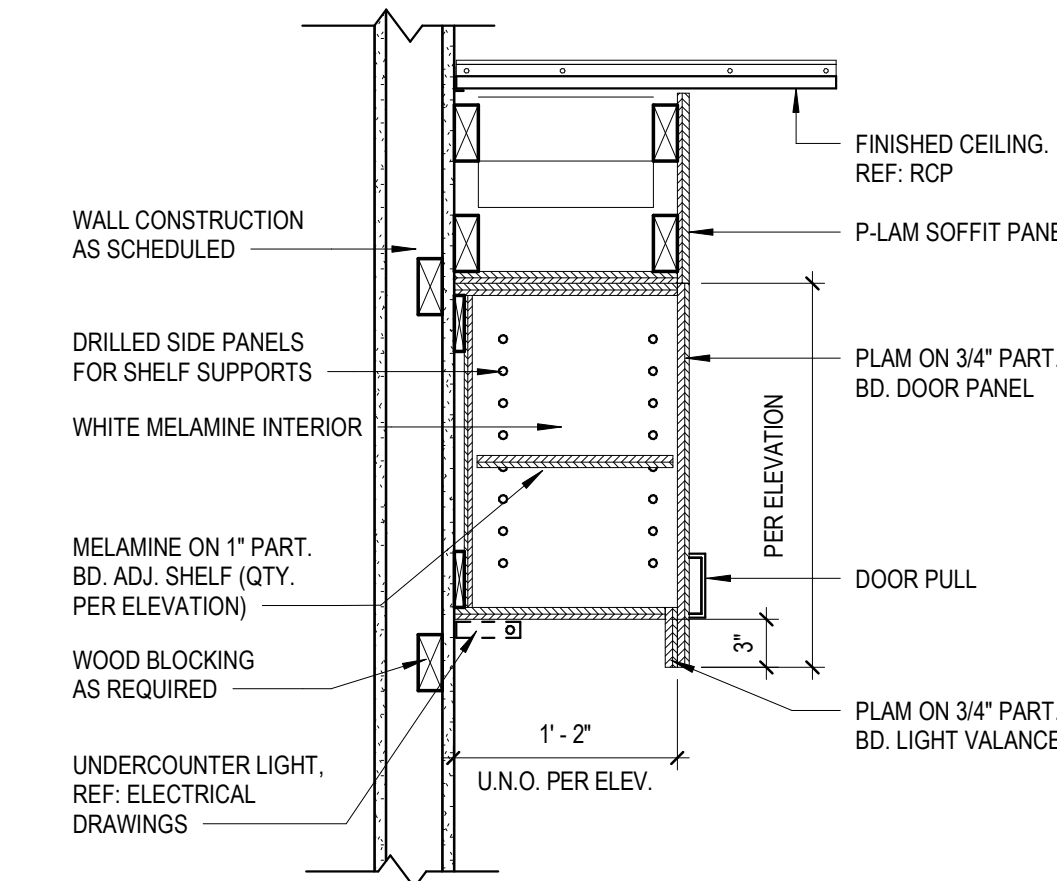
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APPROVED

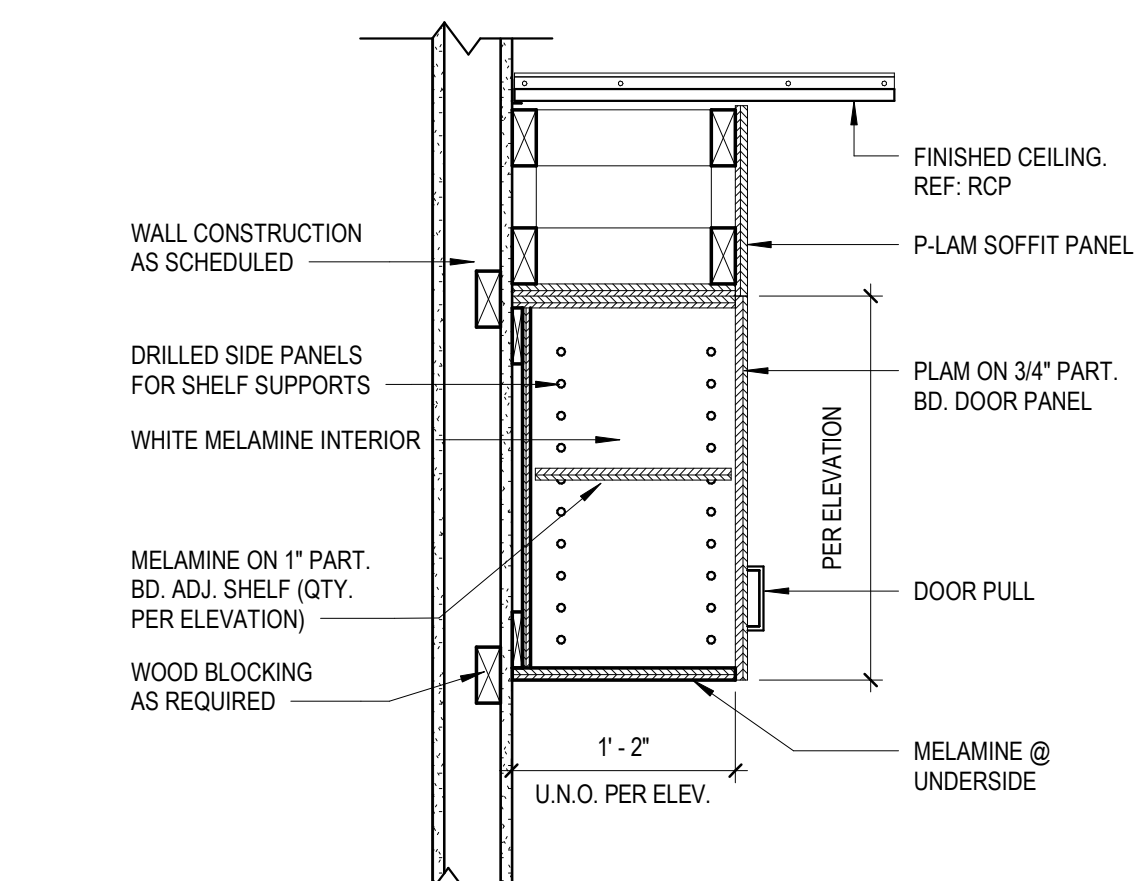
MARK	DATE	DESCRIPTION
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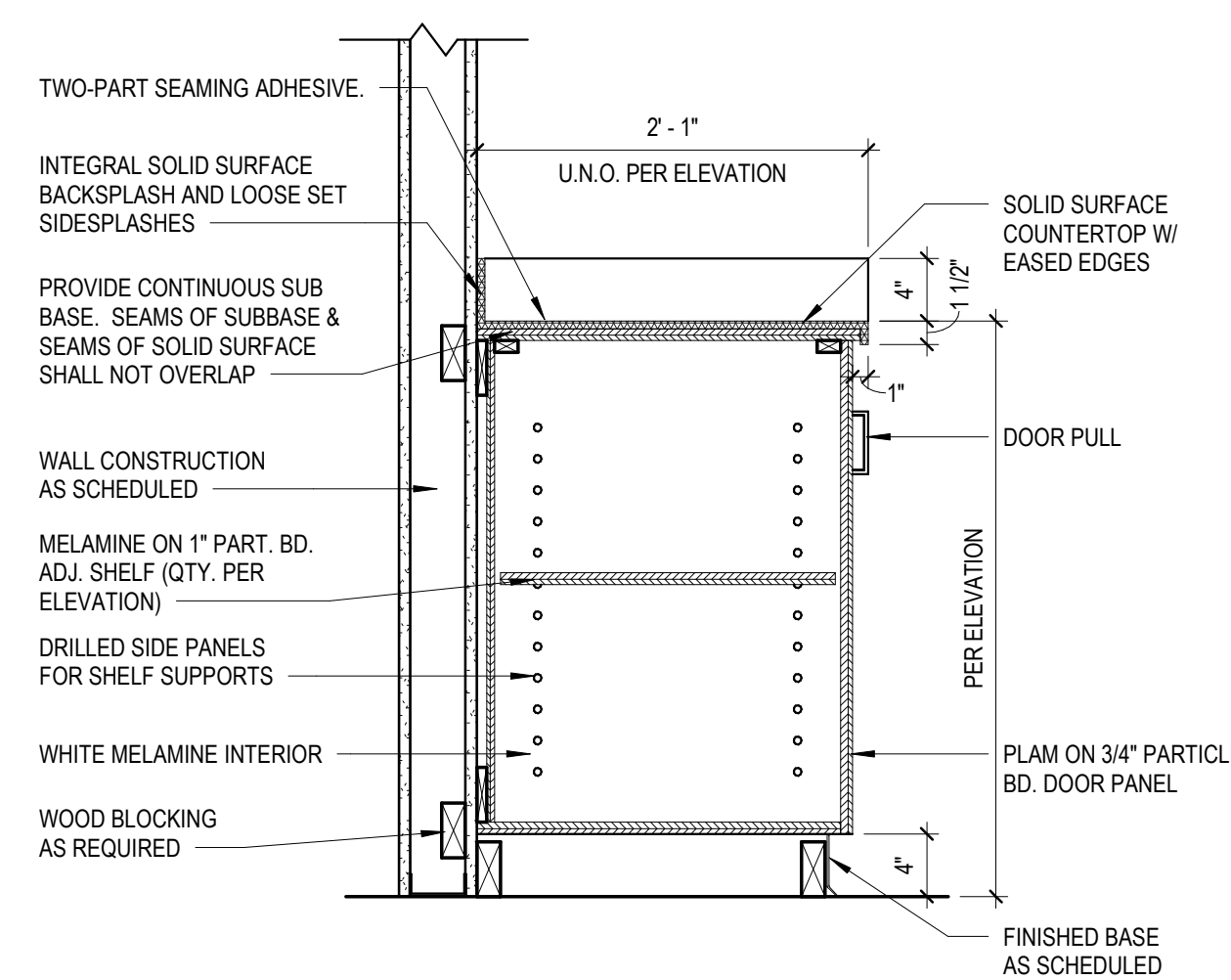
11 BASE - DOOR W/ DRAWER - SS
1" = 1'-0"



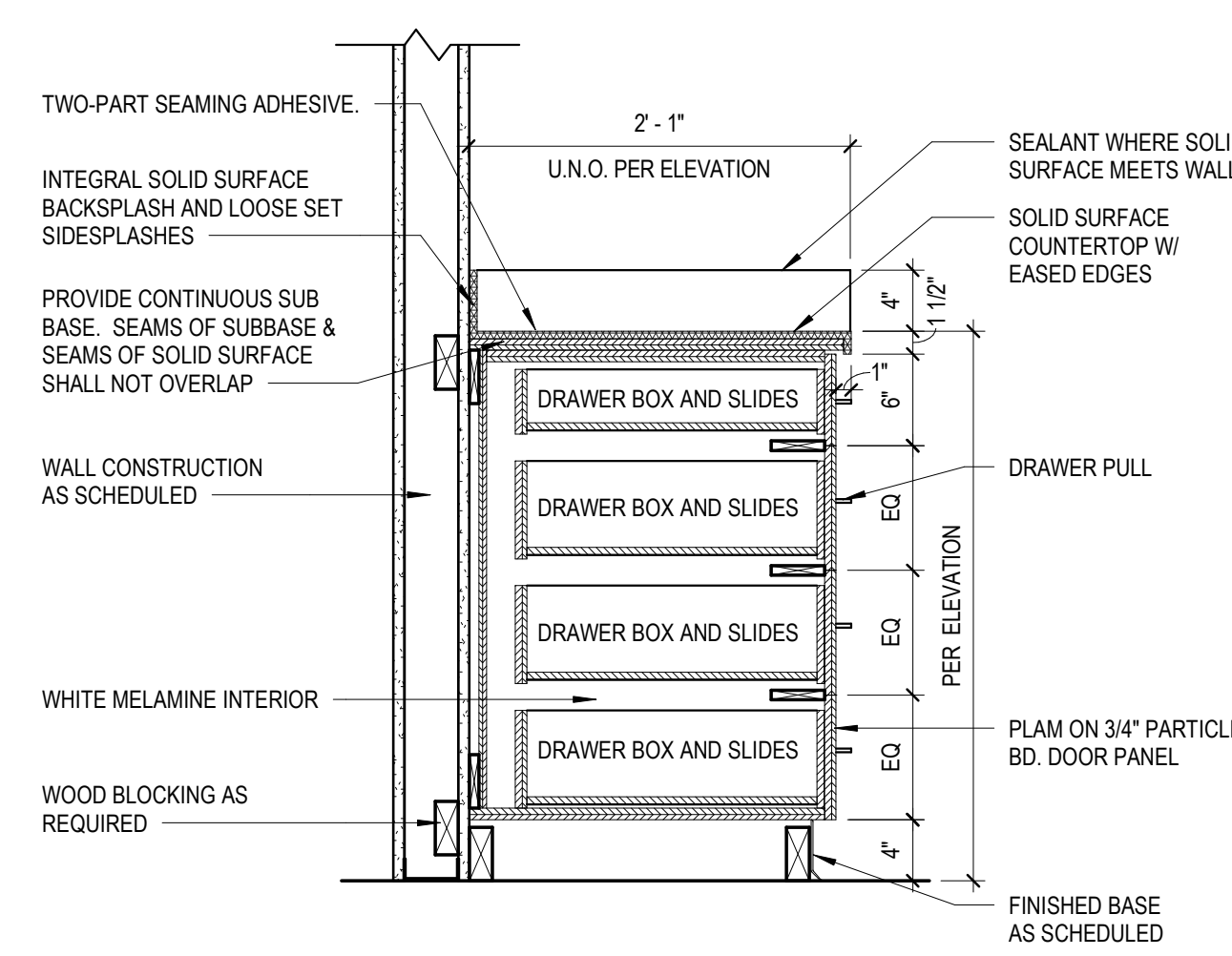
10 UPPER - UCL - P-LAM
1" = 1'-0"



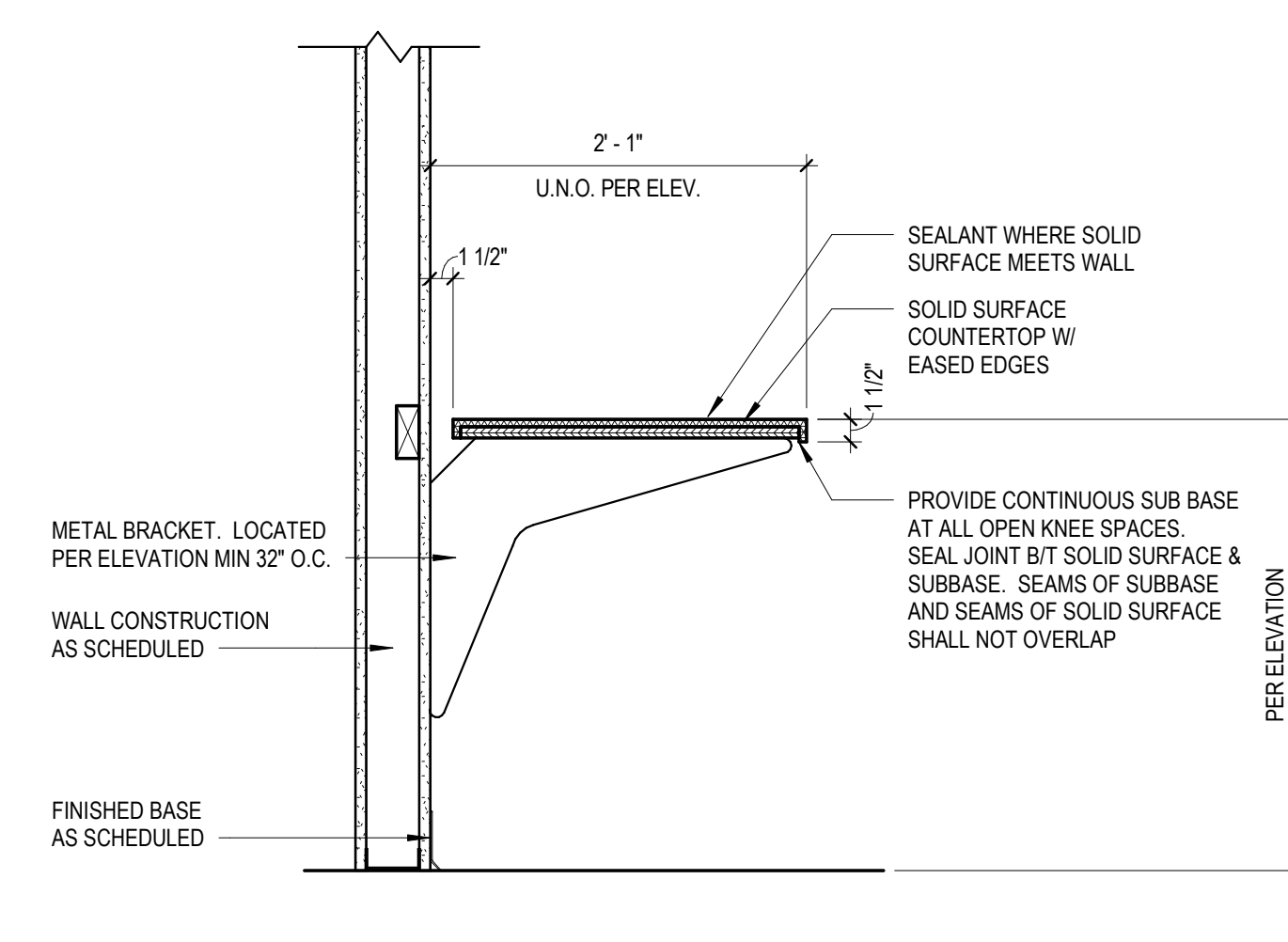
9 UPPER - NO UCL - P-LAM
1" = 1'-0"



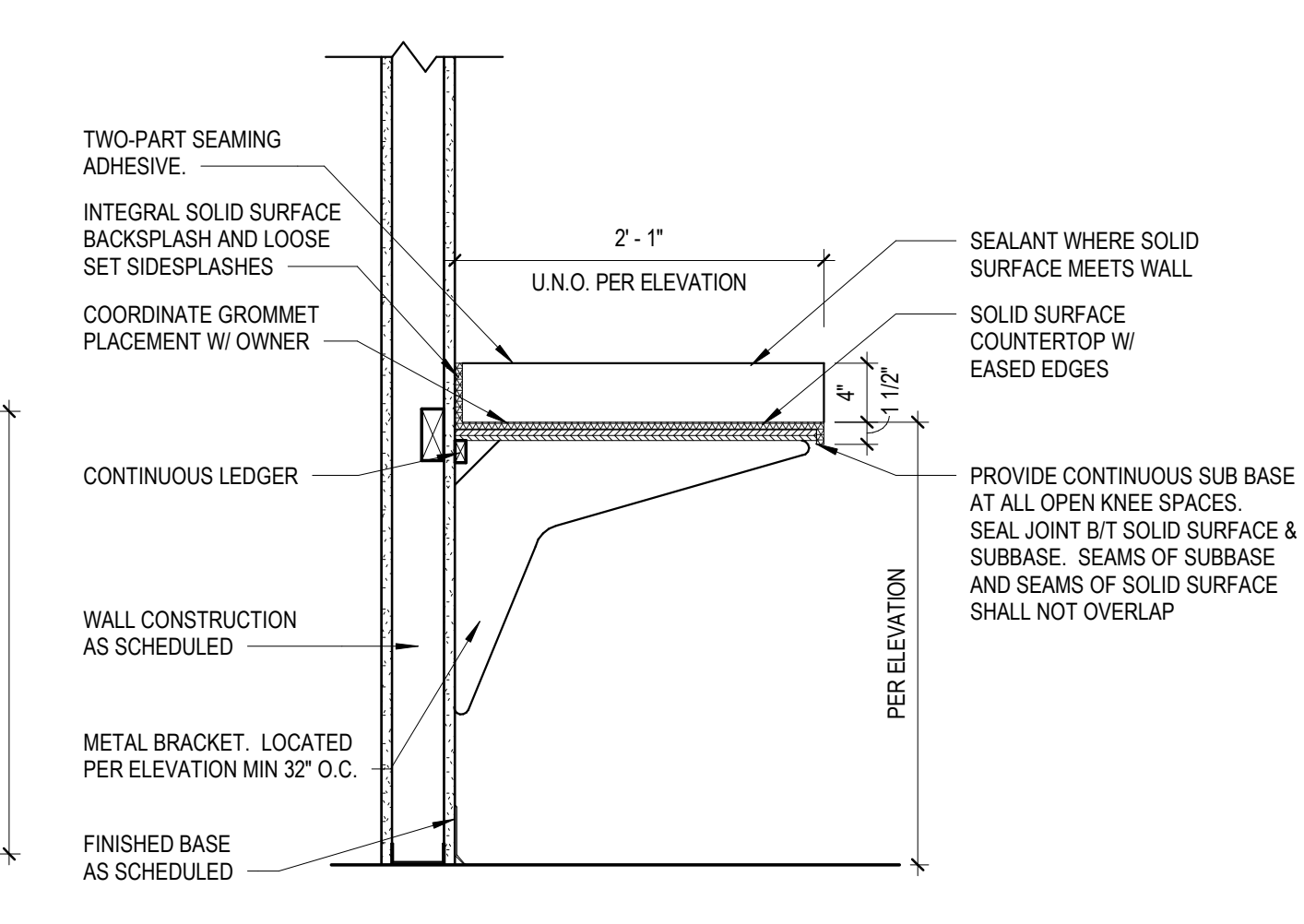
8 BASE - DOOR - SS
1" = 1'-0"



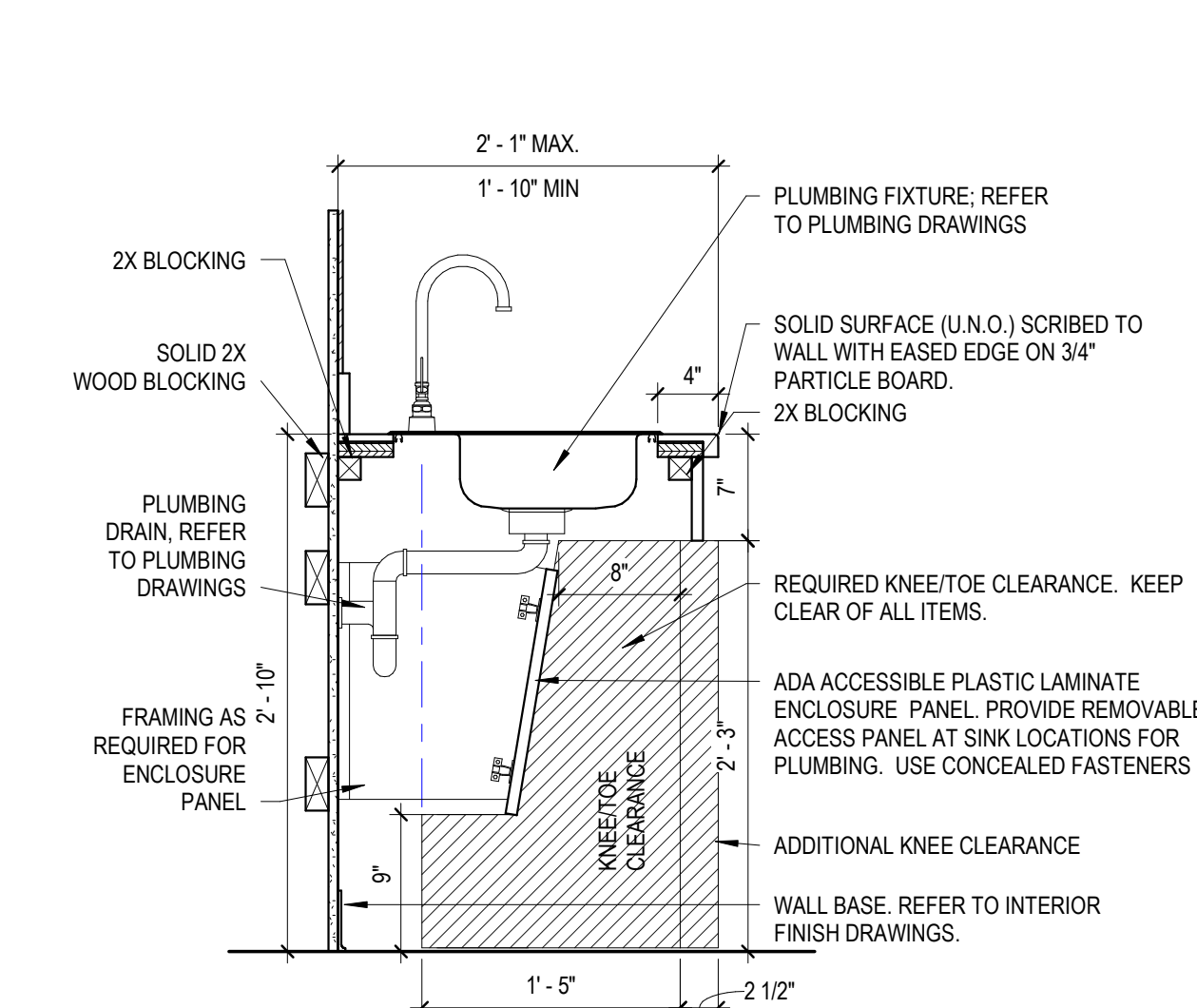
7 BASE - (4) DRAWERS - SS
1" = 1'-0"



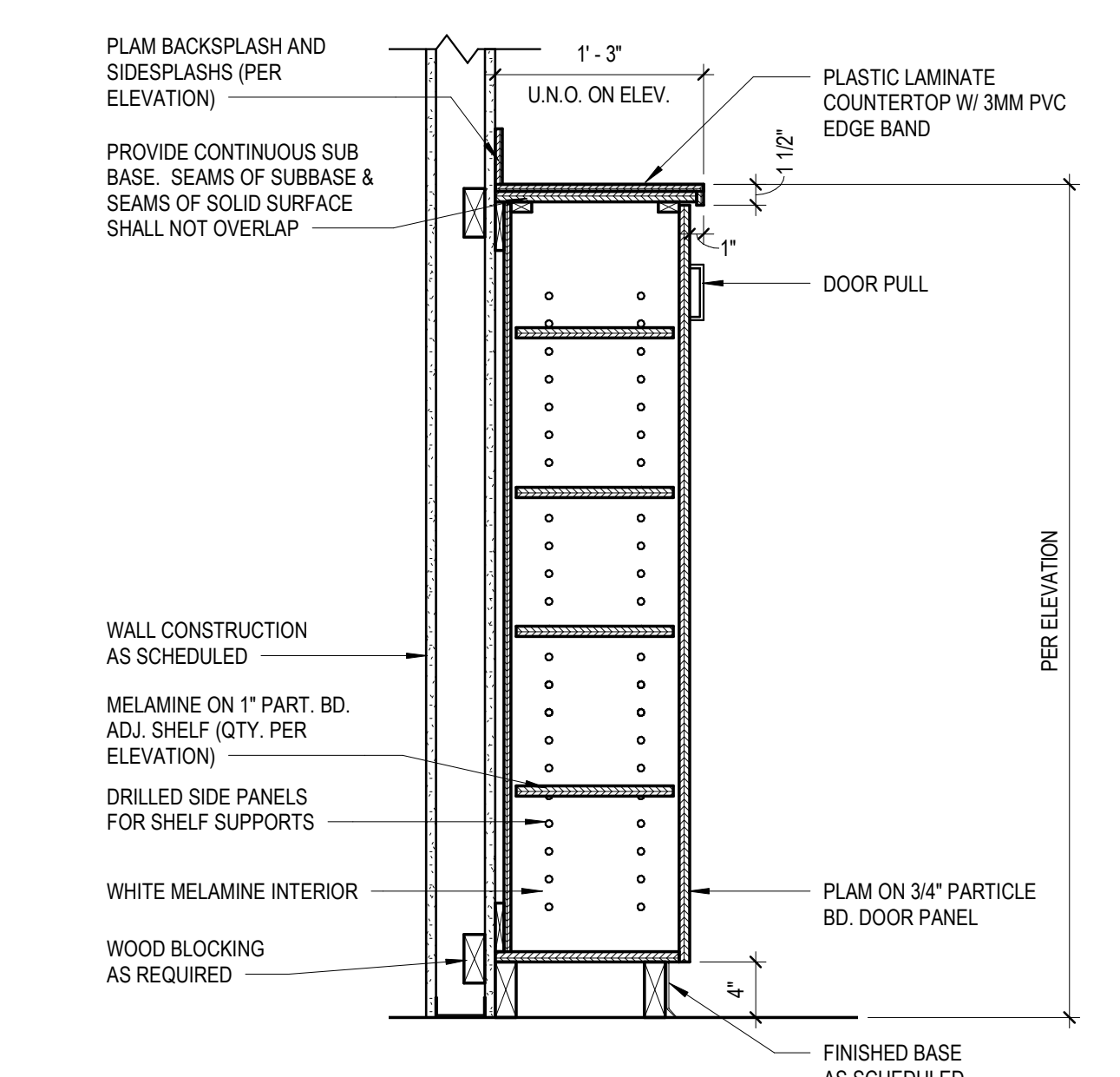
6 BASE - OPEN KNEE AT COMPUTER WORKSTATION - SS
1" = 1'-0"



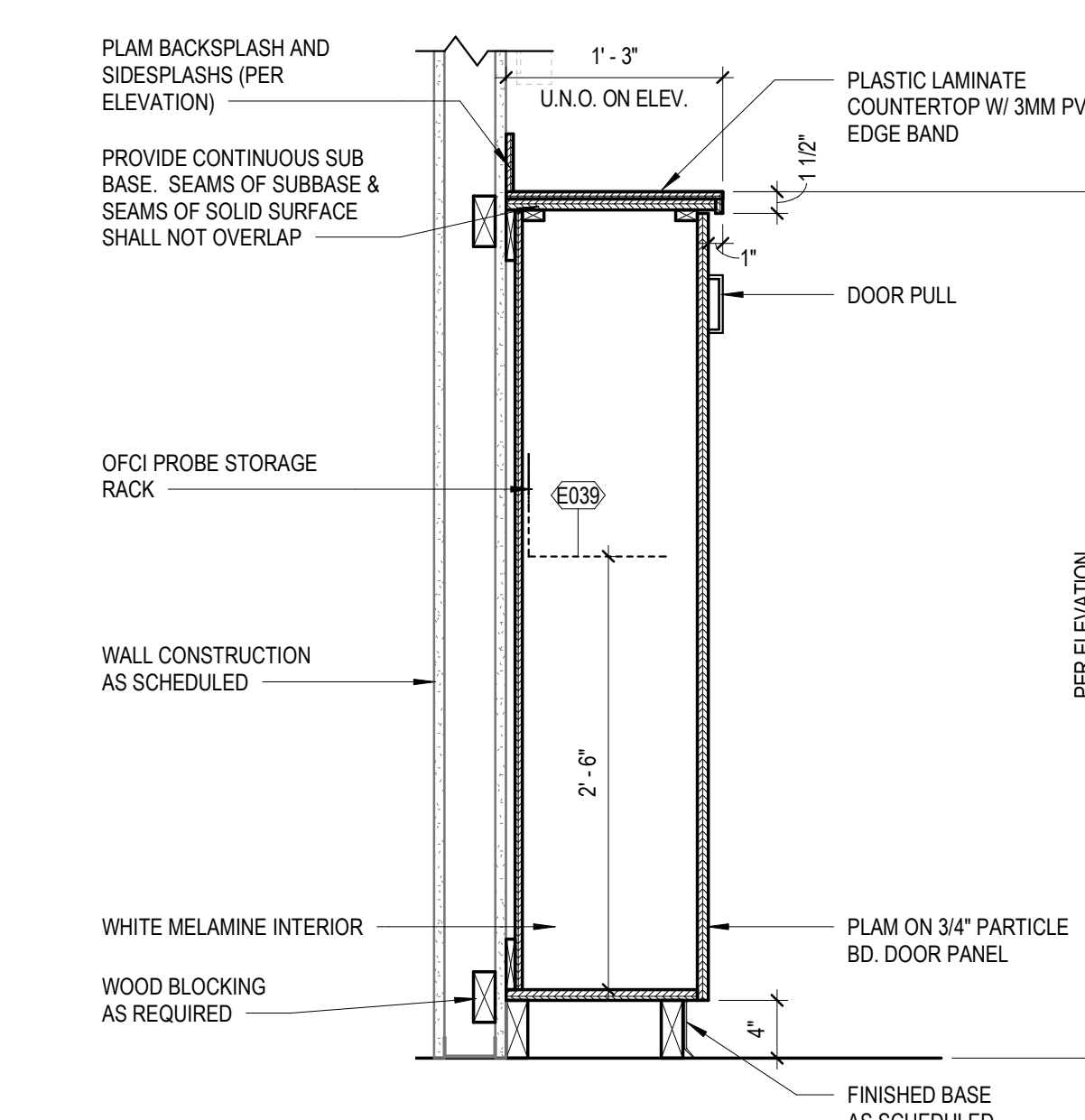
5 BASE - OPEN KNEE - SS
1" = 1'-0"



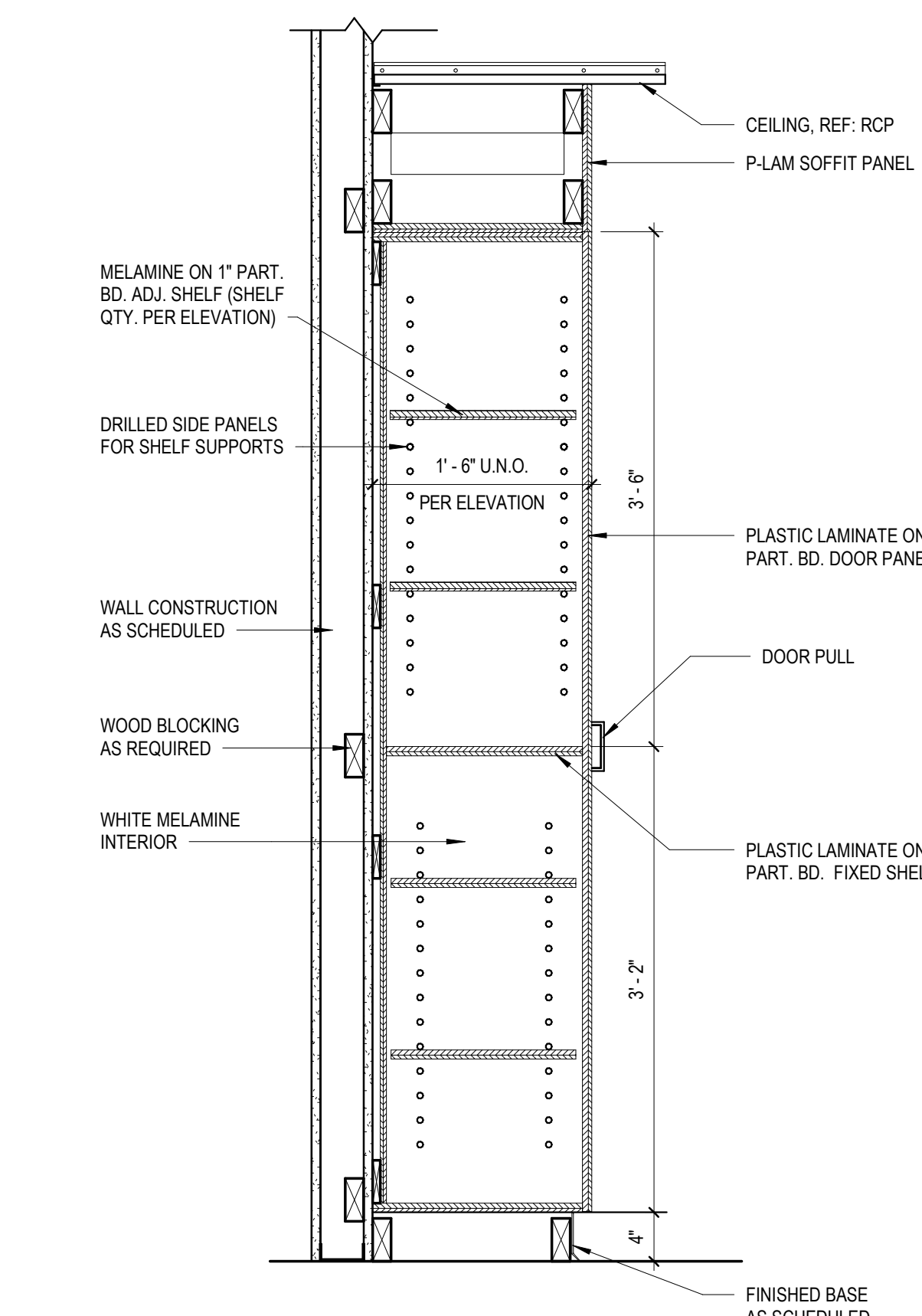
4 ADA STAINLESS STEEL SINK WITH REMOVABLE PANEL - SECTION
1" = 1'-0"



3 SECTION @ LINEN SHELVES
1" = 1'-0"



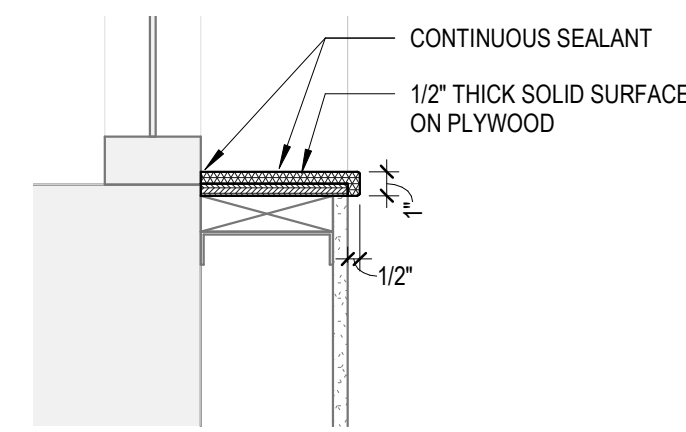
2 SECTION @ PROBE STORAGE CABINET
1" = 1'-0"



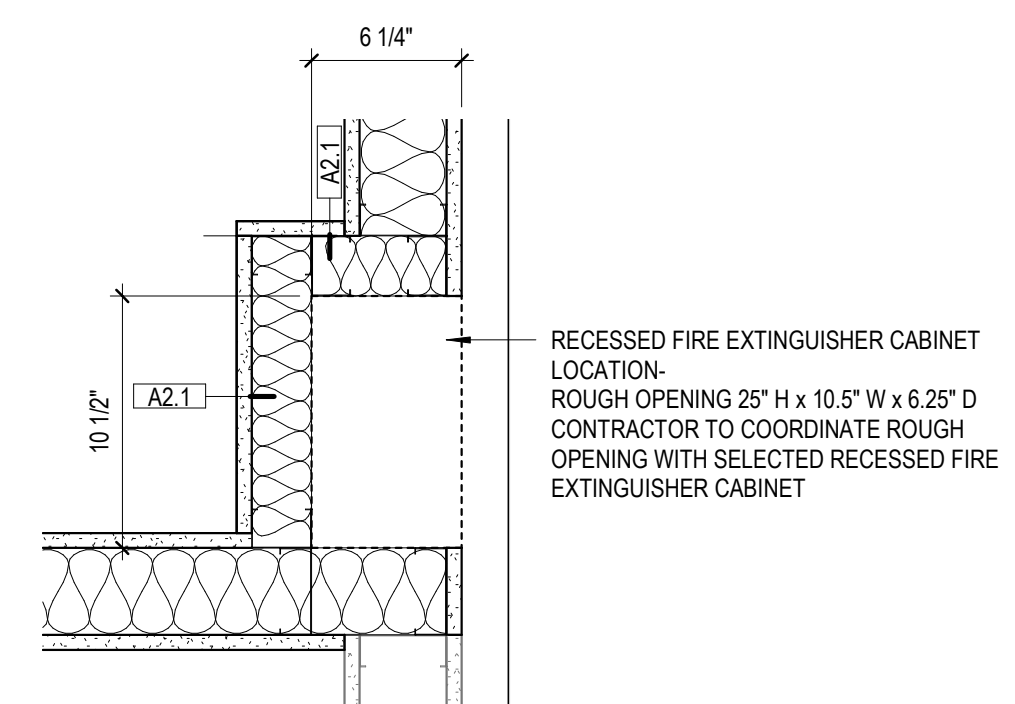
1 FULL - DOOR - PLAM
1" = 1'-0"

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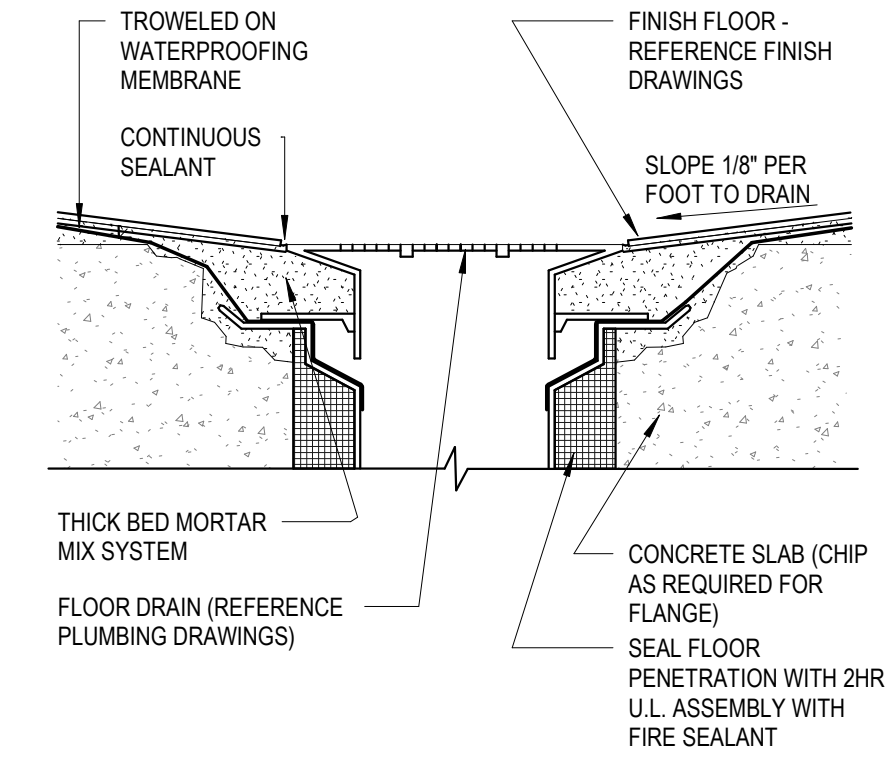




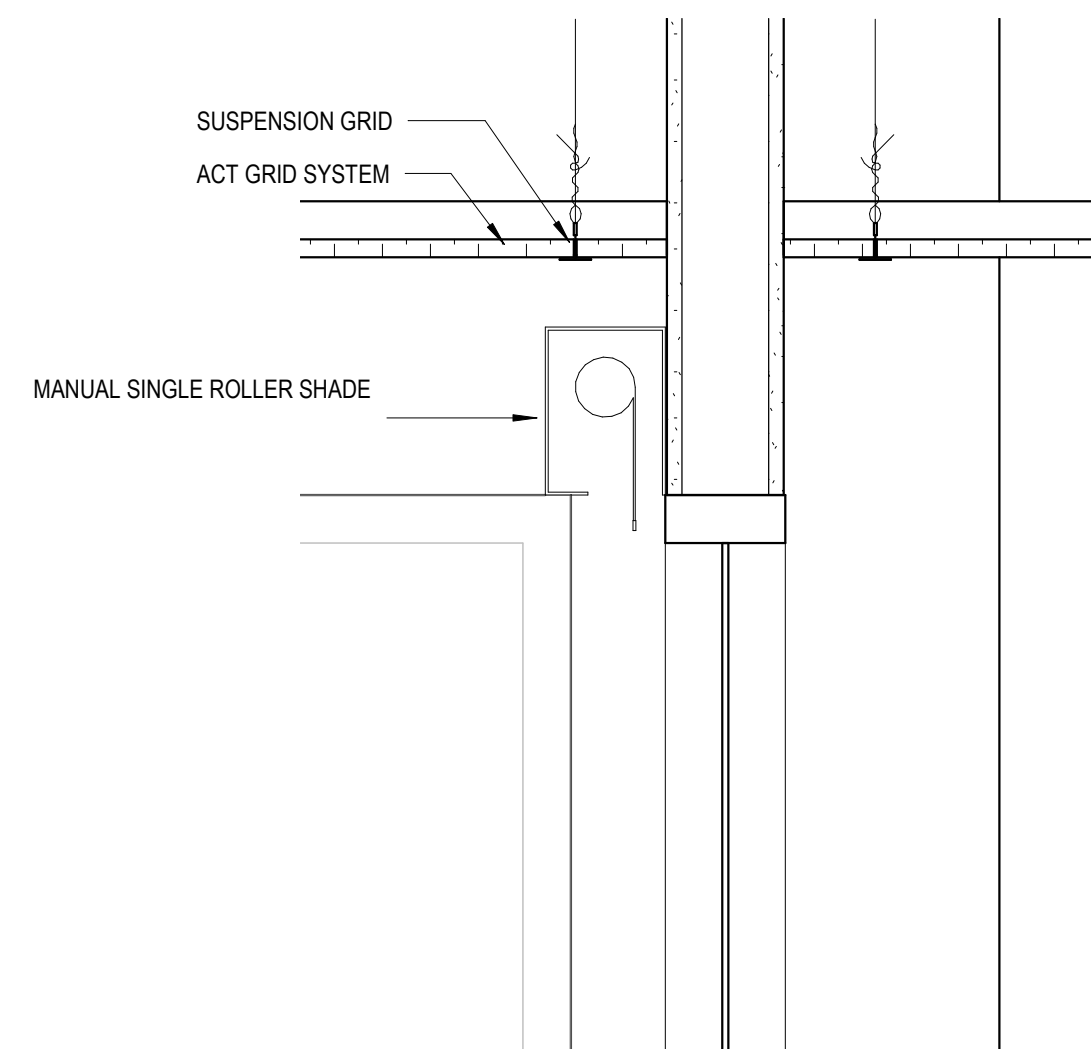
11 SOLID SURFACE WINDOWSILL DETAIL
1 1/2" = 1'-0"



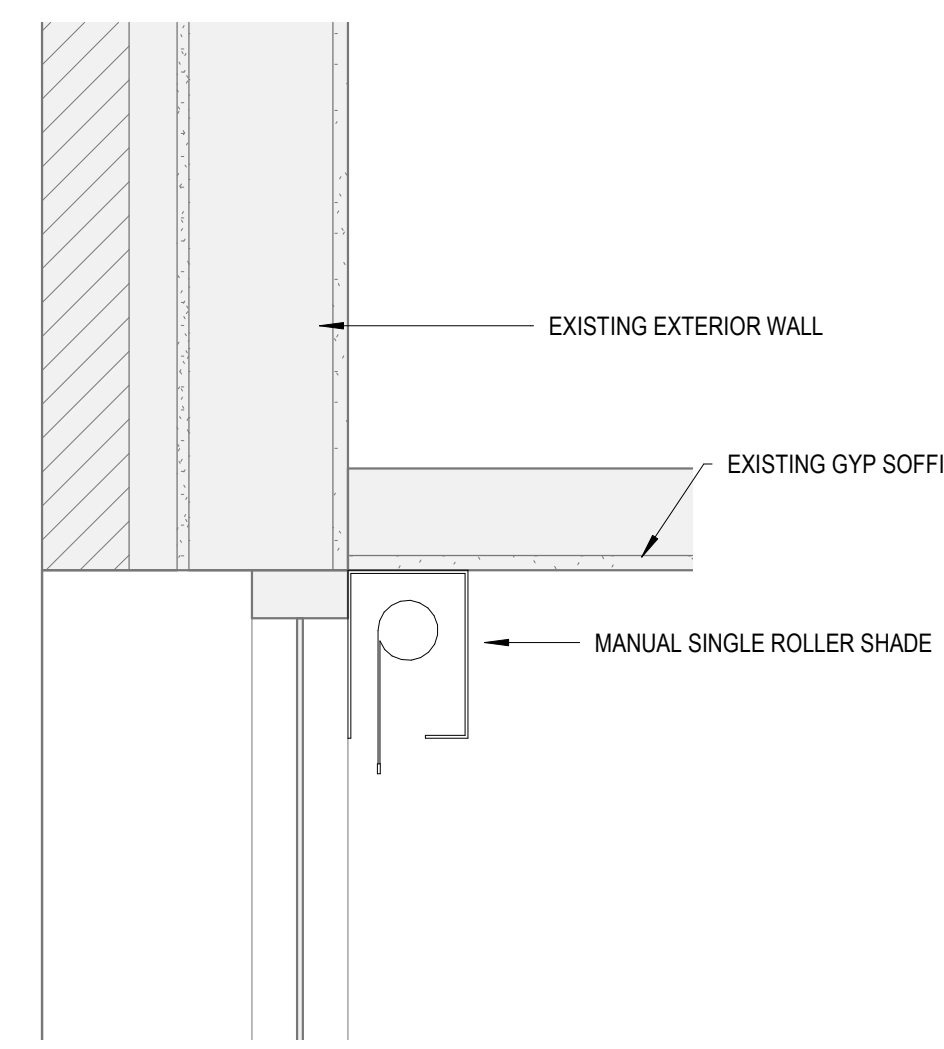
10 RECESSED FIRE EXTINGUISHER CABINET
1 1/2" = 1'-0"



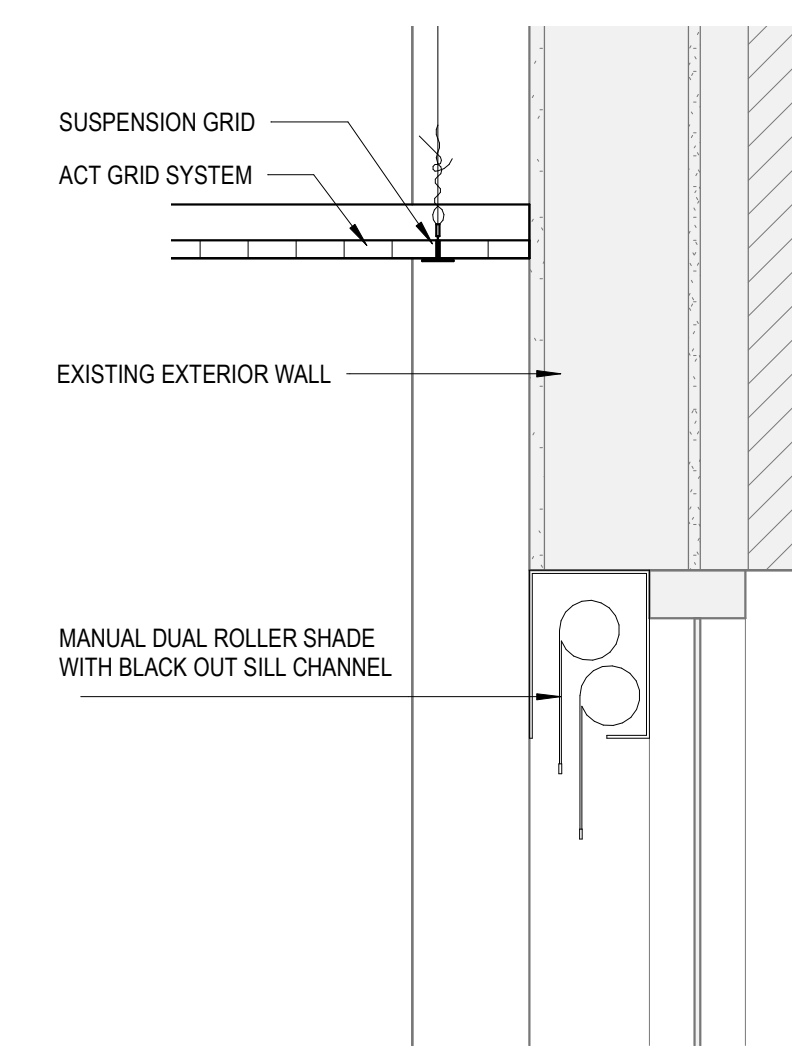
9 FLOOR DRAIN DETAIL - SECTION
3" = 1'-0"



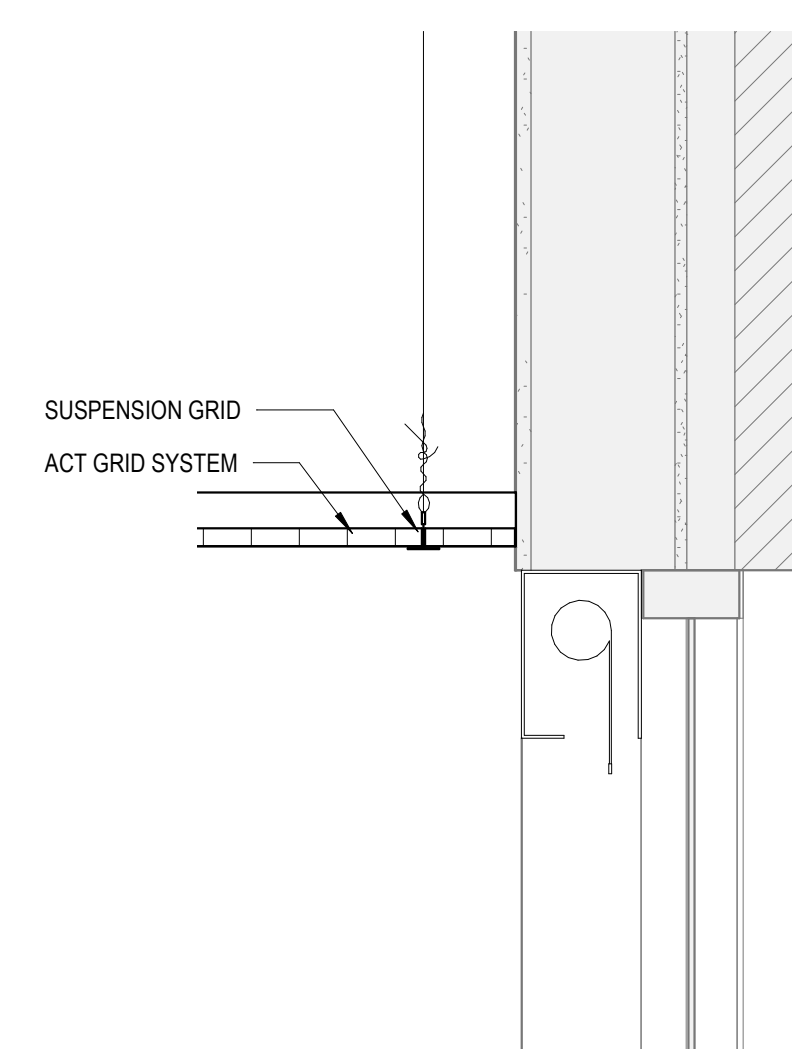
8 ROLLER SHADE DETAIL - SINGLE,
SERVICE COORDINATOR ROOM
1 1/2" = 1'-0"



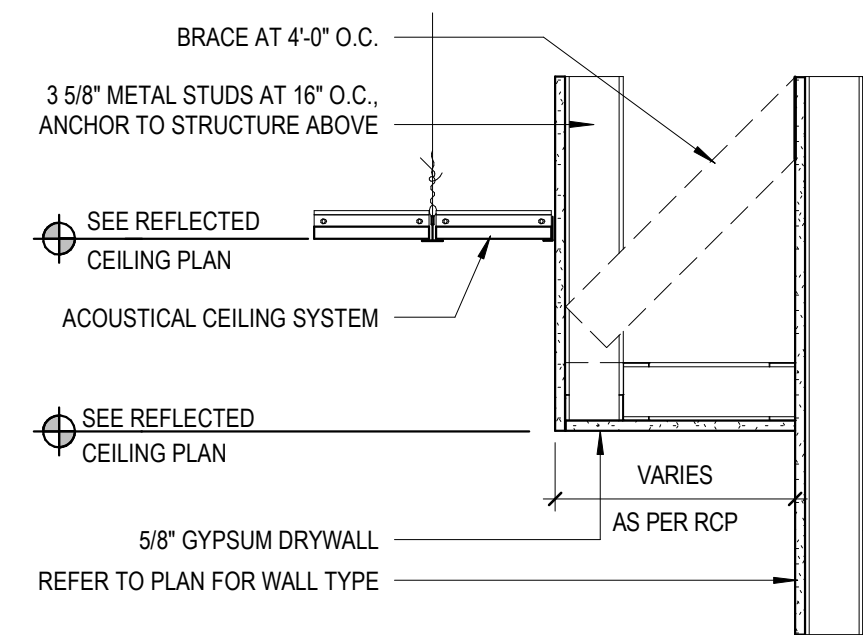
7 ROLLER SHADE DETAIL - SINGLE
SURFACE MOUNT 2
1 1/2" = 1'-0"



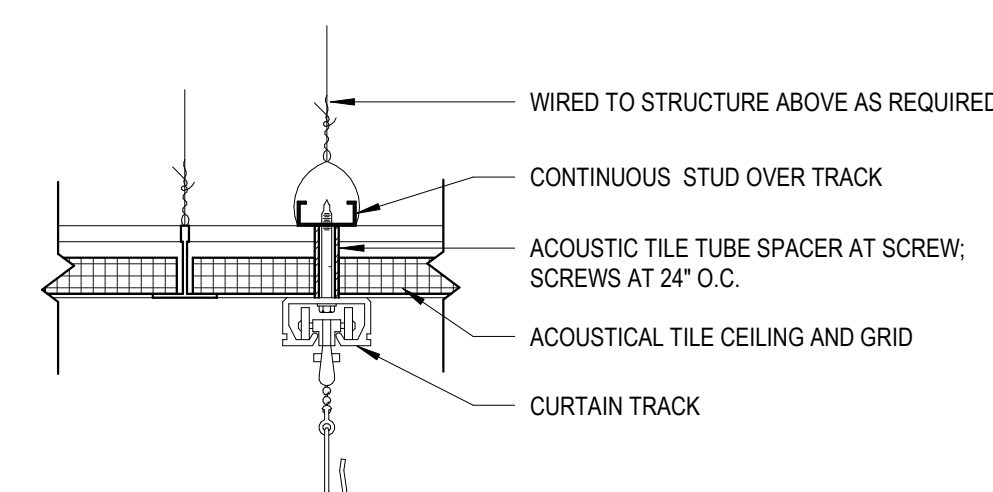
6 ROLLER SHADE DETAIL - DUAL SURFACE
MOUNT
1 1/2" = 1'-0"



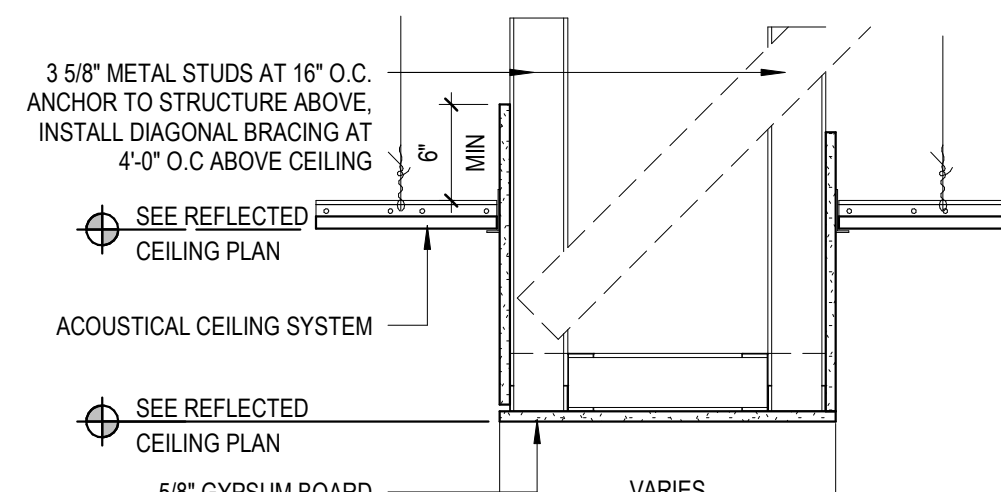
5 ROLLER SHADE DETAIL - SINGLE
SURFACE MOUNT
1 1/2" = 1'-0"



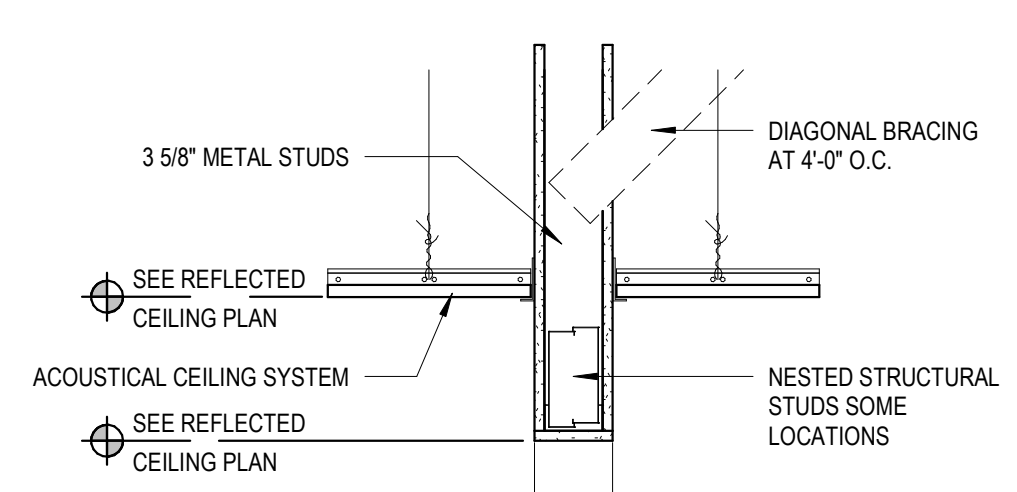
4 SOFFIT AT WALL
1" = 1'-0"



3 CUBICLE CURTAIN DETAIL - SECTION
1" = 1'-0"



2 TYPICAL BULKHEAD DETAIL - SECTION
1" = 1'-0"



1 TYPICAL BULKHEAD DETAIL - SECTION
1" = 1'-0"

MARK	DATE	DESCRIPTION
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INTERIORS- FINISH SPECIFICATIONS-ORG							
MARK:	MANUFACTURER:	STYLE:	NUMBER:	COLOR:	SIZE:	COMMENTS:	CONTACT:
CARPET							
CP11	MANNINGTON COMMERCIAL	SEEDS	83377	PHOENIX	18" x 36"	VERTICAL ASHLAR INSTALLATION METHOD	DON CAVIN, DON_CAVIN@MANNINGTON.COM
CORNER GUARD							
CG1	INPRO CORPORATION	160 HIGH IMPACT CORNER GUARD	-	CHINO	FULL HEIGHT CORNER GUARD, 2" LEGS	BOTTOM OF CORNER GUARD TO START AT TOP OF BASE	KELLY CAMPBELL, KCAMPBELL@INPROCORP.COM
CG2	INPRO CORPORATION	150 HIGH IMPACT CORNER GUARD	-	CHINO	4" TALL CORNER GUARD, 3" LEGS	BOTTOM OF CORNER GUARD TO START AT TOP OF BASE	KELLY CAMPBELL, KCAMPBELL@INPROCORP.COM
CG3	INPRO CORPORATION	160 HIGH IMPACT CORNER GUARD	-	CHINO	4" TALL CORNER GUARD, 2" LEGS	BOTTOM OF CORNER GUARD TO START AT TOP OF BASE	KELLY CAMPBELL, KCAMPBELL@INPROCORP.COM
CUBICLE CURTAIN							
CC1	MOMENTUM	BEVY	09486079	LUPINE	72" WIDTH, REPEAT: 24-5/8" V, 24" H	--	CLEA GRIMM, CGRIMM@MOMTEX.COM, 336-209-7126
DECORATIVE GLASS FILM							
DGF1	SKYLINE DESIGN	PVC-FREE POLYESTER FILM, PATTERN: ASIAN GRASS	--	--	58" W CONTINUOUS ROLL	--	NORA MURPHY, NMURPHY@CMGREPS.COM, 336-681-1186
DECORATIVE PANEL							
DP1	3FORM	VARIA - PATTERN: STRUM	3/8" THICK, 48" X 96" PANELS	GEMINI	--	--	ASHLEY BARBOUR, ASHLEY.BARBOUR@3-FORM.COM
EPOXY PAINT							
EP1	SHERWIN WILLIAMS	REFER TO PROJECT MANUAL	SW 7036	ACCESSIBLE BEIGE	--	--	RUSSELL HANSEN, RUSSELLE.HANSEN@SHERWIN.COM, 960-207-9410
LUXURY VINYL TILE							
LV11	MANNINGTON COMMERCIAL	NATURE'S PATHS - WOOD	12125-4'	AMERICAN WALNUT SADDLE	4" X 36" PLANKS	PLANK FLOORING SHOULD HAVE END JOINTS OFFSET BY AT LEAST 6" AND STAGGERED TO REATE A RANDOM APPEARANCE.	DON CAVIN, DON_CAVIN@MANNINGTON.COM, 919-538-1801
PAINT							
P1	SHERWIN WILLIAMS	REFER TO PROJECT MANUAL	SW 7036	ACCESSIBLE BEIGE	--	--	RUSSELL HANSEN, RUSSELLE.HANSEN@SHERWIN.COM, 960-207-9410
P2	SHERWIN WILLIAMS	REFER TO PROJECT MANUAL	SW 7007	CEILING BRIGHT WHITE	--	--	RUSSELL HANSEN, RUSSELLE.HANSEN@SHERWIN.COM, 960-207-9410
P3	SHERWIN WILLIAMS	REFER TO PROJECT MANUAL	SW 6215	ROCKY RIVER	--	--	RUSSELL HANSEN, RUSSELLE.HANSEN@SHERWIN.COM, 960-207-9410
P4	SHERWIN WILLIAMS	REFER TO PROJECT MANUAL	SW 6222	RIVERWAY	--	--	RUSSELL HANSEN, RUSSELLE.HANSEN@SHERWIN.COM, 960-207-9410
P5	SHERWIN WILLIAMS	REFER TO PROJECT MANUAL	SW 6277	SPECIAL GRAY	--	--	RUSSELL HANSEN, RUSSELLE.HANSEN@SHERWIN.COM, 960-207-9410
PLASTIC LAMINATE							
PL1	FORMICA	--	5886	SORREL CHERRY	--	MATTE FINISH	SHERI REID, SHERI.REID@FORMICA.COM, 704-534-7300
PL2	WILSONART	--	4876	SHEER MESH	--	--	APRIL BRICKLE, BRICKLA@WILSONART.COM, 540-537-3431
PORCELAIN TILE							
PT1	CROSSVILLE	SHADES 2.0, SEMI-POLISHED	--	SEMI-POLISHED	12" X 24", 9.5 MM THICKNESS	TEC'S #940 ANTIQUE WHITE GROUT, JOINT JOINT 3MM WIDE	MICHELE MILLER, MICHELE.MILLER@DALTILE.COM, 704-877-6396
PT2	DALTILE	MESMERIST HEXAGON UNULATED	MM35	MYSTIQUE	4" HEXAGON, 5/16" THICKNESS	TEC'S #940 ANTIQUE WHITE GROUT, BUILD UP BEHIND TILE SO PT2 IS FLUSH WITH PT1	MICHELE MILLER, MICHELE.MILLER@DALTILE.COM, 704-877-6396
PT3	FLORIDA TILE	MAGNOLIA, MATTE FINISH	FT1263256X36	BURL	8" x 36", 9 MM THICKNESS	CONFIRM LAYOUT AND GROUT JOINT ALIGNMENT WITH DESIGNER AFTER DEMOLITION IS COMPLETE AND AREA IS READY TO RECEIVE TO TILE.	DANIELLE WRIGHT, DANIELLE.WRIGHT@FLORIDATILE.COM, 919-481-0172
RESILIENT BASE							
RB1	TARKETT	MILLWORK REVEAL WALL BASE	66	EITHER ORE	4.25" HEIGHT	--	LISA ELLIS, LISA.ELLIS@TARKETT.COM, 919-606-6639
RB2	TARKETT	TIGHTLOCK WALL BASE FOR CARPET AND RESILIENT	66	EITHER ORE	4.5" FOR CARPET, 4.375" FOR RESILIENT, 75' COILS	PROVIDE APPROPRIATE TIGHTLIGHT SIZE AND PROFILE FOR FLOORING TYPE.	LISA ELLIS, LISA.ELLIS@TARKETT.COM, 919-606-6639
ROLLER SHADE							
RS1	DRAPER	SUNLOC 0% OPEN	S8000	OYSTER	--	--	MATT SCHULTZ, MSCHULTZ@DRAPERINC.COM, 770-562-4757
RS2	DRAPER	SHEERWAVE 3% OPEN	SW2400	OYSTER/BEIGE	--	--	MATT SCHULTZ, MSCHULTZ@DRAPERINC.COM, 770-562-4757
SHEET VINYL							
SV1	MANNINGTON COMMERCIAL	ASSURANCE III	16343	RIVIERA	6'-6" WIDE ROLLS	HEAT WELD SEAMS, WELD ROD TO MATCH SHEET VINYL.	DON CAVIN, DON_CAVIN@MANNINGTON.COM, 919-538-1801
SV2	TARKETT	ACCENT FLOURISH	200	THRIVE AFFINITY	6'-6" WIDE ROLLS	HEAT WELD SEAMS, WELD ROD TO MATCH SHEET VINYL.	LISA ELLIS, LISA.ELLIS@TARKETT.COM, 919-606-6639
SV3	TARKETT	PERFORMA	55014	SATIN WOOD	6'-0" WIDE ROLLS	HEAT WELD SEAMS, WELD ROD TO MATCH SHEET VINYL.	LISA ELLIS, LISA.ELLIS@TARKETT.COM, 919-606-6639
SHEET VINYL INTEGRAL BASE							
SVB1	MANNINGTON COMMERCIAL	ASSURANCE III	16343	RIVIERA	4" HIGH	REFER TO DETAIL ON IF000	DON CAVIN, DON_CAVIN@MANNINGTON.COM, 919-538-1801
SOLID SURFACE							
SS1	WILSONART	--	9200CS	MYSTIQUE	--	--	APRIL BRICKLE, BRICKLA@WILSONART.COM, 540-537-3431
TACK FABRIC							
TF1	MAHARAM	MUSE	466487-009	MISO	54" WIDE	--	JULIA WOODSIDE, JWWOODSIDE@MAHARAM.COM, 404-809-8440
VINYL WALLCOVERING							
VWC1	MOMENTUM	SANCTUARY TYPE II VINYL WALLCOVERING	L2-SY-01	TIDAL	54" WIDE	--	CLEA GRIMM, CGRIMM@MOMTEX.COM, 336-209-7126
WALL PROTECTION							
WP1	INPRO CORPORATION	RIGID SHEET WALL PROTECTION	--	CHINO	THICKNESS: 0.60", SHEET SIZE: 4' x 10'	--	KELLY CAMPBELL, KCAMPBELL@INPROCORP.COM

GENERAL FINISH NOTES	
A.	PATTERN NAME, COLOR AND NUMBER FOR EACH MATERIAL ARE GIVEN WHENEVER POSSIBLE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ INTERIOR DESIGNER TO ENSURE THAT THE CORRECT MATERIAL IS INSTALLED.
B.	PAINT ALL BULKHEADS, SOFFITS, AND GYPSUM WALLBOARD CEILING SURFACES (P2) U.N.O. ALL BULKHEADS, SOFFITS, AND GYPSUM WALLBOARD CEILING SURFACES SHALL BE FINISHED WITH THE SAME MATERIAL AND /OR COLOR ON ALL FACES VERTICAL AND HORIZONTAL U.N.O.
C.	REFER TO REFLECTED CEILING PLAN(S) FOR ADDITIONAL CEILING FINISHES.
D.	ALL FLOOR MATERIAL TRANSITIONS SHALL BE CENTERED UNDER THE DOOR IN THE CLOSED POSITION.
E.	ALL FLOORING SHALL BE INSTALLED PERPENDICULAR TO ROOM WALLS U.N.O.
F.	PROVIDE CRACK ISOLATION MEMBRANE AS REQUIRED AT ALL PORCELAIN TILE FLOORING. FLOORING CONTRACTOR TO COORDINATE WITH DESIGNER.
G.	REFER TO SHEET (IF000) FOR FLOOR TRANSITION DETAILS.
H.	REFER TO SHEET (IF000) FOR WALL BASE DETAILS.
I.	REFER TO MANUFACTURER'S INSTRUCTIONS FOR CARPET TILE INSTALLATION PATTERNS AS INDICATED.
J.	PROVIDE SEALANT AT ALL DOOR AND WINDOW FRAMES WHERE THEY MEET HARD SURFACE FLOORING.
K.	ALL NEW INTERIOR WOOD DOORS SHALL BE STAINED TO MATCH EXISTING DOORS. DOORS TO BE PREFINISHED. REFER TO PROJECT MANUAL.
L.	ALL NEW INTERIOR HOLLOW METAL DOOR AND WINDOW FRAMES SHALL BE PAINTED TO MATCH ADJACENT WALL. REFER TO SPECIFICATIONS FOR PAINT TYPE AND FINISH.
M.	ALL VERTICAL PLASTIC LAMINATE SURFACES SHALL BE (PL1) U.N.O. ALL HORIZONTAL PLASTIC LAMINATE COUNTERTOPS AND BACKSPLASH SHALL BE (PL2) U.N.O.
N.	ALL SOLID SURFACE COUNTERTOPS AND BACKSPLASH SHALL BE (SS1) U.N.O.
O.	ALL COUNTERTOPS WITH SINKS SHALL BE SOLID SURFACE (SS1) U.N.O.
P.	ALL FABRIC WRAPPED TACKABLE SURFACES AND TACKBOARDS SHALL BE (TF1) U.N.O.
Q.	THERE SHALL NOT BE PAINT CONDITIONS THAT OCCUR CAUSING FINISH OR COLOR TO TERMINATE ON AN OUTSIDE CORNER UNLESS SPECIFICALLY NOTED OTHERWISE. IF THIS CONDITION OCCURS, BRING IT TO THE ATTENTION OF THE INTERIOR DESIGNER IMMEDIATELY.
R.	ALL REFERENCES TO EPOXY PAINT (EP1) ON THE DRAWINGS, SHALL MATCH CORRESPONDING PAINT (P1) COLOR. REFER TO PROJECT MANUAL FOR PAINT (P1) AND EPOXY PAINT (EP1) TYPES AND FINISHES.
S.	GYPSUM WALLBOARD SHALL RECEIVE LEVEL 5 FINISH IN AREAS SCHEDULED TO RECEIVE WALLCOVERING. VWC1. REFER TO PROJECT MANUAL DIVISION 9 FOR FINISH LEVEL REQUIREMENTS FOR GYPSUM BOARD SURFACES U.N.O.
T.	PATCH AND MATCH EXISTING FINISHES AS NEEDED FOR NEW CONSTRUCTION.
U.	PAINT ALL WALL MOUNTED GRILLES, VENTS, ELECTRICAL PANELS, ACCESS PANELS, ETC. TO MATCH ADJACENT WALL U.N.O.
V.	FINISH BEHIND FIXED EQUIPMENT SUCH AS CABINETRY, CASEWORK, CHALK AND TACK / MARKERBOARDS, LOCKERS ETC.
W.	WALL RATINGS ARE SHOWN FOR REFERENCE ONLY. REFER TO "A" SERIES DRAWINGS FOR WALL RATINGS LEGEND.
X.	BOTTOM OF ALL CORNER GUARDS SHALL BE MOUNTED ABOVE FINISHED WALL BASE U.N.O.
Y.	FURNITURE INDICATED BY DASHED LINES SHALL BE OWNER FURNISHED. OWNER INSTALLED.
Z.	ALL CUBICLE CURTAINS SHALL BE (CC1) WITH (WHITE) MESH COLOR U.N.O.
AA.	FOR ALL RENOVATED AREAS SCHEDULED TO RECEIVE RESILIENT FLOORING, WHERE WALLS OR PLUMBING ARE BEING DEMOLISHED OR REWORKED, SKIM COAT UNDERLAMENT FOR RESILIENT FLOORING PRODUCT WITH ADEK FEATHER FINISH.

BSA
 BSA LifeStructures
 12645 Olive Blvd, Suite 227
 Creve Coeur, MO 63141
 ph 314.754.6306 fx 314.754.4452
 Architectural Registration Number - 2003010309

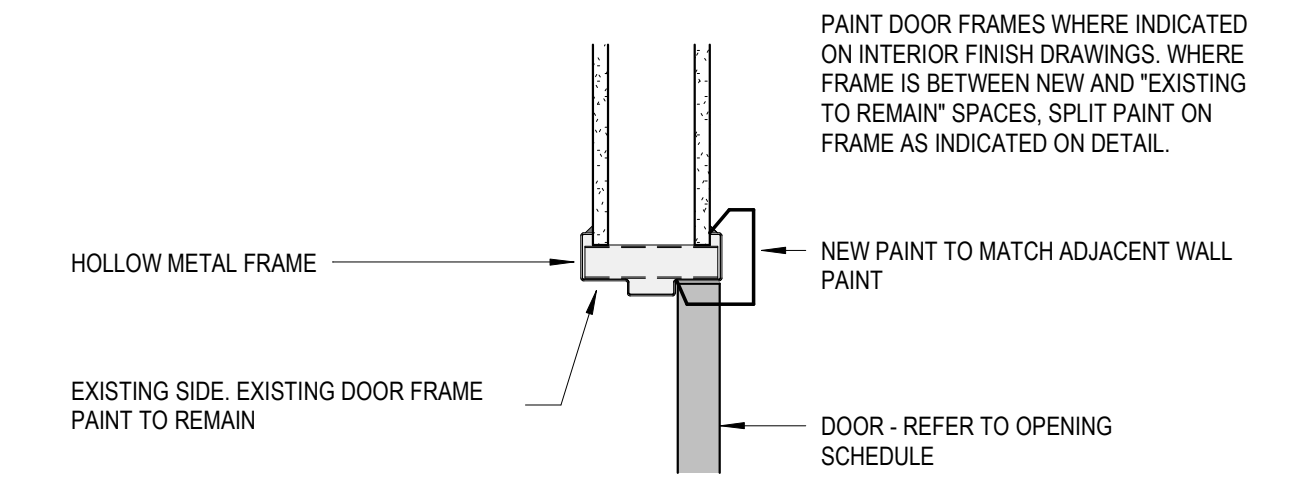
Ross & Baruzzini
 MEP ENGINEERING:
 Ross & Baruzzini
 6 S Old Orchard Ave
 St. Louis, MO 63119
 ph 314.918.8383 www.rossbar.com
 Missouri State Certificate of Authority #000148

Timberlake
 ENGINEERING
 A Custom Engineering Company
 LIGHTING ENGINEERING:
 Timberlake Engineering
 912 Old Highway 63 South
 Columbia, MO 65201
 ph 573.875.4365 ext 209 www.customengr.com
 Missouri State Certificate of Authority #000239

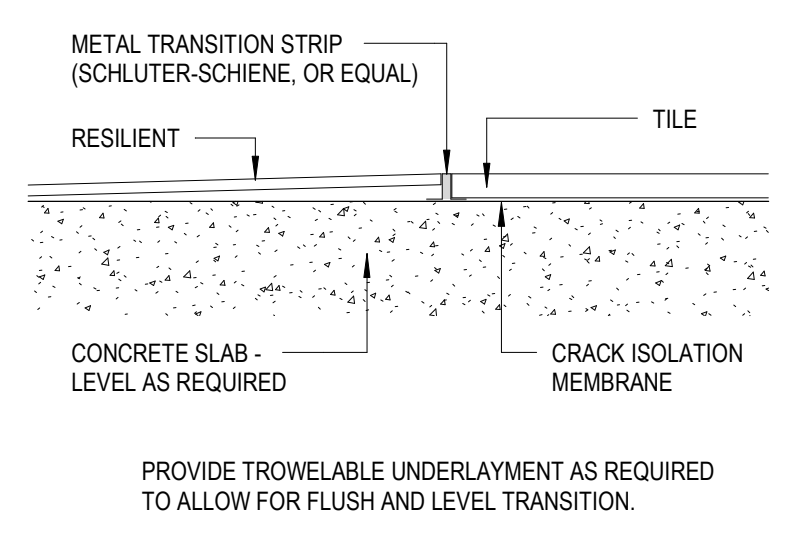
Health Care
 MU PROJECT NO. - CP221944
UNIVERSITY PHYSICIANS
MEDICAL BUILDING
(UPMB) - 4TH FLOOR -
MOA CLINIC RENOVATION
 1020 Hitt St, Columbia, MO 65212

BID SET

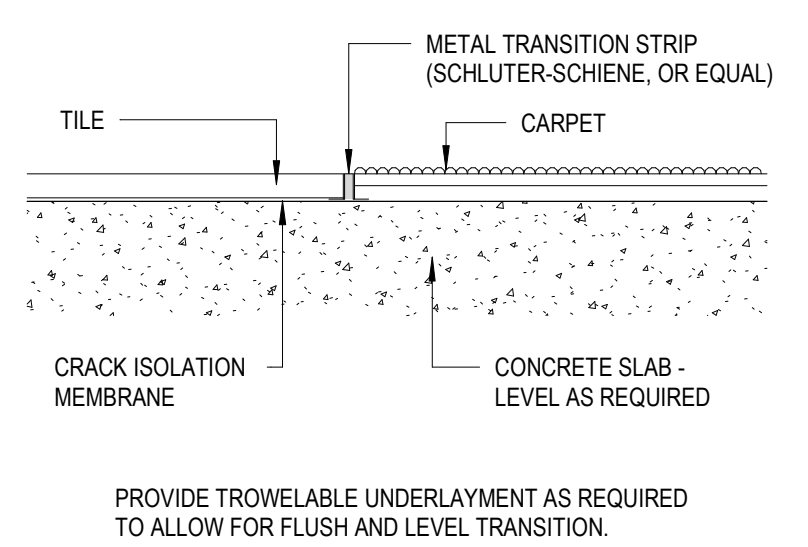
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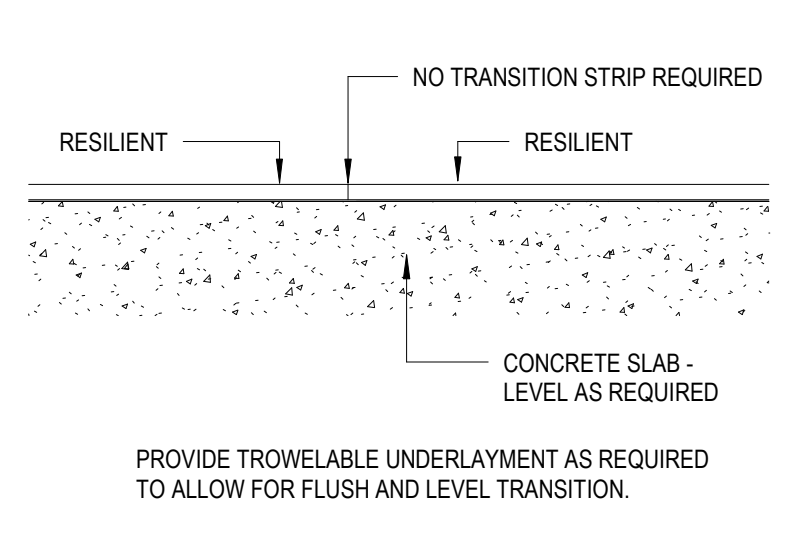
6 DOOR FRAME SPLIT PAINT
 1 1/2" = 1'-0"



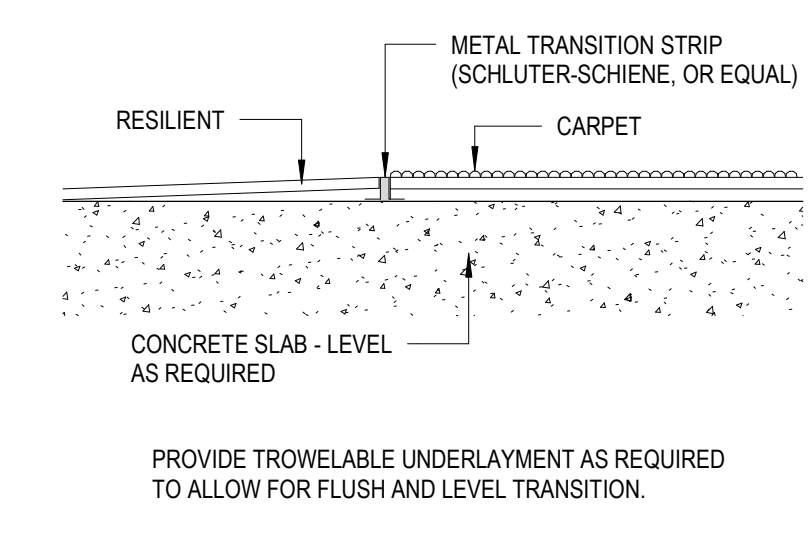
5 FLOOR TRANSITION - RESILIENT TO TILE
 6" = 1'-0"



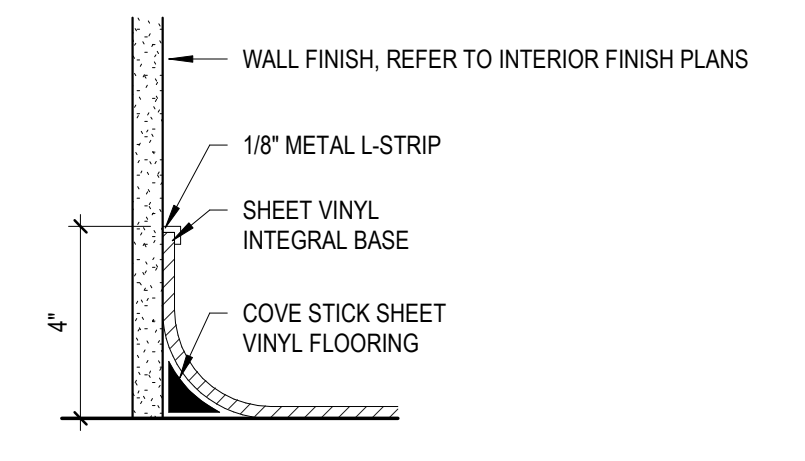
4 FLOOR TRANSITION - TILE TO CARPET
 6" = 1'-0"



3 FLOOR TRANSITION - RESILIENT TO RESILIENT
 6" = 1'-0"



2 FLOOR TRANSITION - RESILIENT TO CARPET
 6" = 1'-0"



1 BASE DETAIL - SHEET VINYL COVE
 3" = 1'-0"

9/20/2022 11:24:59 AM
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 User: BSALS
 APPROVED: [Signature]

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INTERIOR FINISH SPECIFICATIONS

IF000
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KEYNOTE LEGEND

REFER TO A600 FOR GENERAL NOTES	
F01	NEW WALL, PATCH AND MATCH EXISTING PAINT, WALL PROTECTION, AND BASE
F02	EXISTING WALLCOVERING TO REMAIN WHERE INDICATED.
F03	DECORATIVE PANEL, DP1 RESIN ABOVE PONY WALL
F04	VINYL WALLCOVERING AT SOFFIT ABOVE, REFER TO REFLECTED CEILING PLAN
F05	GLAZING TO RECEIVE DECORATIVE GLASS FILM, DGF1
F06	NEW WALL, PAINT TO MATCH EXISTING ADJACENT WALL, ADD NEW BASE TO MATCH ADJACENT EXISTING BASE
F07	NEW WALL, ADD NEW BASE TO MATCH ADJACENT EXISTING BASE.
F08	RB1 TO TERMINATE UNDER DESK
F09	RB2 TO TERMINATE WHERE INDICATED BY ARROW.
F11	PAINT ALL HOLLOW METAL DOOR FRAMES, NEW AND EXISTING, IN CORRIDOR TO MATCH ADJACENT WALL COLOR, SPLIT FRAME PAINT WHERE OPPOSITE SIDE OF FRAME IS NOT IN SCOPE OF WORK, REFER TO DETAIL ON P100. ALUMINUM FRAMES ARE NOT TO BE PAINTED
F12	DECORATIVE GLASS FILM (DGF1) HERE
F14	NEW ALCOVE IN LOBBY L4000 TO RECEIVE NEW PAINT, P1, AND NEW BASE, RB2 ON NEW WALLS WHERE INDICATED.
F15	EXPOSED EDGE OF VINYL WALLCOVERING TO RECEIVE ALUMINUM J CHANNEL TRIM.



FINISH REMARKS

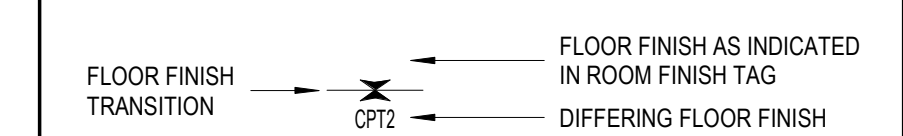
- REFER TO INTERIOR FINISH PLAN NOTES FOR ACCENT WALL LOCATIONS.
- REFER TO INTERIOR FINISH PLANS FOR FLOOR PATTERN.
- WALL TO RECEIVE PORCELAIN TILE, PT1 WITH 6\" ACCENT PAINT, PT2. REFER TO ELEVATION ON A600.
- ALTERNATE NO. 1: PROVIDE NEW FLOORING IN CORRIDOR INDICATED. NEW FLOORING TO BE LV11. REFER TO ALTERNATE SPECIFICATION FOR MORE INFORMATION.
- ALTERNATE NO. 1: PROVIDE NEW BASE IN CORRIDOR INDICATED. NEW BASE TO BE RB2. REFER TO ALTERNATE SPECIFICATION FOR MORE INFORMATION.

FINISH ABBREVIATIONS

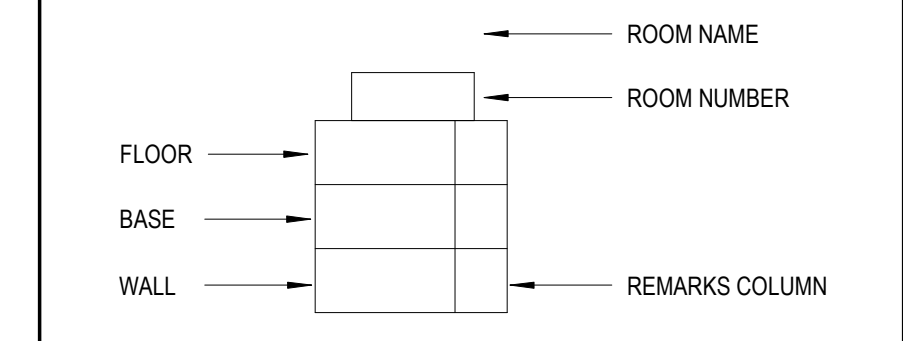
*NOT ALL FINISHES LISTED ARE USED IN PROJECT

ACB	ACOUSTICAL CEILING	PME	PATCH TO MATCH EXISTING
ACT	BAFFLE	PT	PORCELAIN TILE
AF	ACCESS FLOORING	PT1	PORCELAIN TILE BASE
AWC	ACOUSTICAL WALL CARPET	QZ	QUARTZ SURFACE
BF	BAMBOO FLOORING	RB	RUBBER SHEET FLOORING
BL	BLINDS	RFB	RUBBER TILE FLOORING
BR	BUMP RAIL	RR	RUB RAIL
BRK	BRICK	RST	RESILIENT STAIR TREAD
CC	CUBICLE CURTAIN	RS	ROLLER SHADE
CF	CORK FLOORING	SAP	SOUND-ABSORBING PANEL
CG	CORNER GUARD	SC	SEALED CONCRETE
CMU	CONCRETE MASONRY UNIT	SC	SPEC CONCRETE
CPT	CARPET	SDT	STATIC DISSIPATIVE TILE
CS	CAST STONE OR CULTURED STONE	SHC	SHOWER CURTAIN
CTB	CERAMIC TILE BASE	SSB	SOLID SURFACE BASE
CT	CERAMIC TILE	SPC	SPECIALTY COATING
CR	CRASH RAIL OR CHAIR RAIL	SS	SOLID SURFACE
DG	DECORATIVE GLASS	SSK	SOLID SURFACE SINK
DGF	DECORATIVE GLASS FILM	SSP	SOLID SURFACE WALL PANEL
DP	DECORATIVE PANEL	STB	STAINLESS STEEL BASE
EP	EPOXY PAINT	STN	STONE OR STONE VENEER
ERB	EPOXY RESIN BASE	STP	STONE SLAB WALL PANEL
ERF	EPOXY RESIN FLOOR	SV	SHEET VINYL
ETR	EXISTING TO REMAIN	SVT	SOLID VINYL TILE
FB	FABRIC	TB	TACKBOARD
FRC	FIBER REINFORCED CONCRETE	TF	TACKABLE FABRIC
GB	GYPSONUM BOARD	TZ	TERRAZZO FLOORING
GLT	GLASS TILE	TZB	TERRAZZO BASE
HR	HANDRAIL	TZT	TERRAZZO FLOOR TILE
LSF	LINOLEUM SHEET FLOORING	VB	VINYL BASE
LT	LINOLEUM TILE FLOORING	VCF	VISION CONTROL FILM
LVT	LUXURY VINYL TILE	VCT	VINYL COMPOSITION TILE
MB	MARKER BOARD	VET	VINYL ENHANCED TILE
MT	MOSAIC TILE	VWC	VINYL WALL COVERING
MWC	MARKER WALLCOVERING	WB	WOOD BASE
P	PAINT	WD	WOOD PANELING
PL	PLASTIC LAMINATE	WDF	WOOD FLOORING
		WP	WALL PROTECTION (SHEET)
		WM	WALK-OFF MAT
		WWW	WOOD VENEER WALLCOVERING

FLOOR TRANSITION INDICATOR



ROOM FINISH TAG



NOTE: FINISHES INDICATED IN ROOM FINISH TAG ARE GENERAL OVERALL FINISHES FOR ROOM UNLESS OTHERWISE NOTED BY NOTE, REMARK, DETAIL, AND/OR ELEVATION.

SYMBOL INDICATES MATERIAL / PATTERN / GRAIN DIRECTION

INDICATES AREAS NOT IN SCOPE

INDICATES AREAS EXISTING TO REMAIN, PATCH AND MATCH AS NEEDED FOR NEW WORK.

1 FOURTH FLOOR FINISH PLAN
1/8" = 1'-0"

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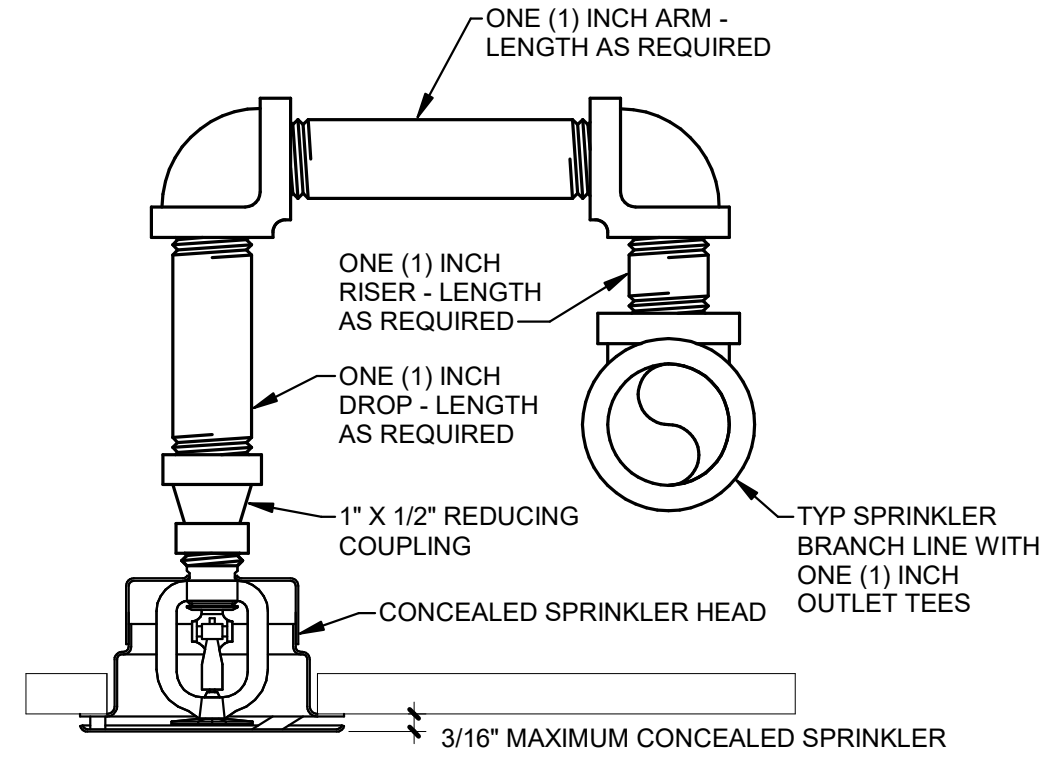


INTERIOR FINISH PLAN - FOURTH FLOOR

DATE 3 OCTOBER 2022
BSALS PROJECT NO. 14110005

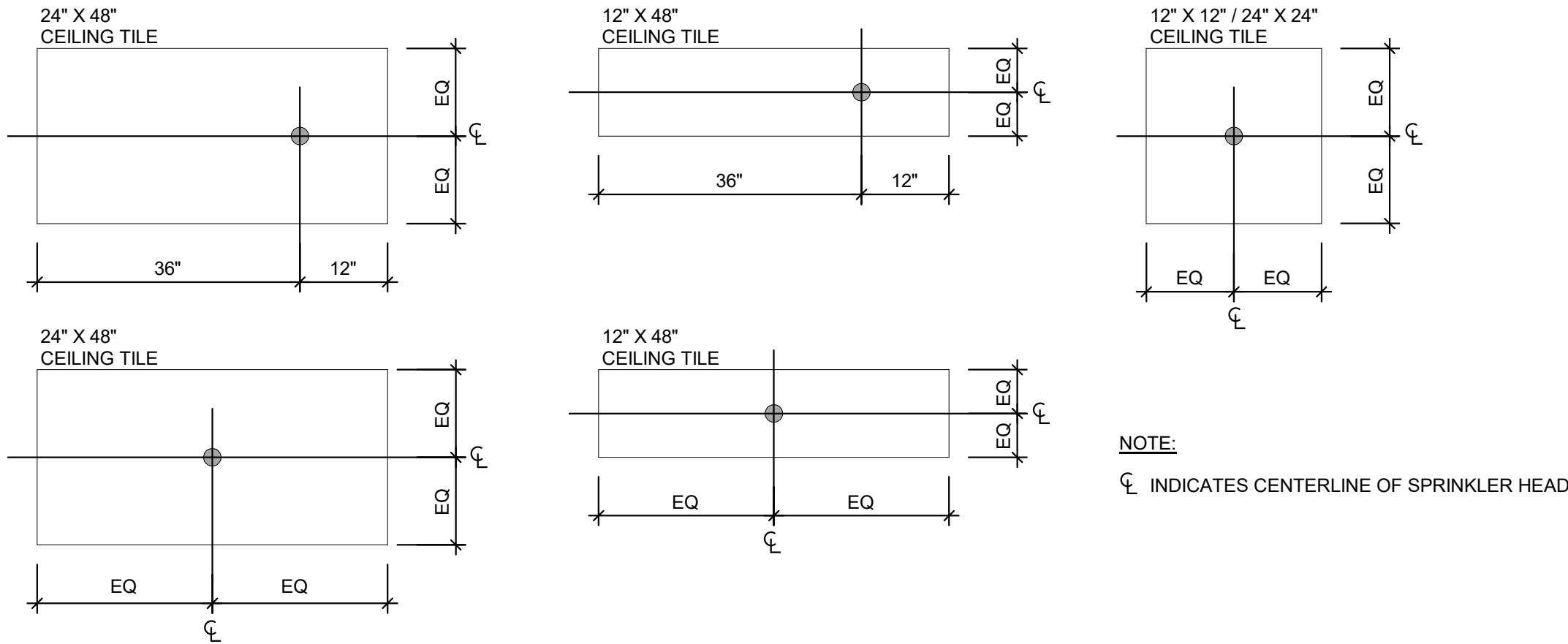
FIRE PROTECTION - FIRE WATCH

- FIRE WATCH**
BUILDING AND OCCUPANT SAFETY - INTERRUPTION OF FIRE PROTECTION SERVICE
- DURING THE TIME THAT FIRE PROTECTION RENOVATION WORK IS BEING PERFORMED, AND THE FIRE PROTECTION SYSTEM IS DOWN AND OUT OF COMMISSION, THE FIRE PROTECTION CONTRACTOR SHALL HAVE SUFFICIENT PERSONNEL ONSITE TO KEEP A "FIRE WATCH" ON THE FACILITY.
 - A FIRE PROTECTION WATCH IS IMPLEMENTED TO ENSURE THE FIRE SAFETY OF A BUILDING IN THE EVENT OF ANY ACT OR SITUATION INSTIGATING AN INCREASED RISK TO PERSONS OR PROPERTY. THE TERM "FIRE WATCH" IS USED TO DESCRIBE A DEDICATED PERSON OR PERSONS WHOSE SOLE RESPONSIBILITY IS TO LOOK FOR FIRES WITHIN AN ESTABLISHED AREA.
 - IN THE OPINION OF THE FIRE AND LIFE-SAFETY GROUP (FLS) OR FM GLOBAL (FM), ANY REQUIRED FIRE PROTECTION SYSTEM THAT IS OUT OF SERVICE FOR MORE THAN 4 HOURS AND OCCUPIED IS REQUIRED TO ESTABLISH A FIRE WATCH. FOR THE PERSON OR PERSONS ASSIGNED TO THE FIRE WATCH, THIS MUST BE THEIR ONLY JOB DUTY DURING THE TIME PERIOD OF THE FIRE PROTECTION RENOVATION WORK.
 - IN ADDITION, THE BUILDING OWNER IS REQUIRED TO HAVE AN IMPAIRMENT COORDINATOR. THE OUT OF SERVICE EQUIPMENT MUST BE TAGGED OUT OF SERVICE. AN OUT OF SERVICE TAG MUST BE PLACED AT THE FIRE ALARM PANEL AND THE FIRE DEPARTMENT CONNECTION (REFERENCE INTERNATIONAL FIRE CODE- CHAPTER 9, SECTION 901.7).
 - FIRE WATCH PERSONNEL ARE TO KEEP WATCH FOR FIRES IN THE GENERAL AREA OF PERFORMANCE, THE PERSONS PERFORMING THE FIRE WATCH ARE NOT PERMITTED TO PERFORM ANY OTHER DUTIES.
 - FIRE WATCH PERSONNEL ARE TO HAVE FIRE EXTINGUISHING EQUIPMENT READILY AVAILABLE AND TO BE TRAINED IN ITS USE.
 - THE QUANTITY OF PERSONNEL INVOLVED IN THE FIRE WATCH IS TO BE ADEQUATE SUCH THAT EACH FLOOR, LEVEL, AND ROOM OF THE FIRE AREA IS COVERED.
 - IN GENERAL, A FIRE WATCH IS TO FULFILL THE INTENT OF NFPA-72 AS FOLLOWS:
A. NOTIFY OCCUPANTS TO EVACUATE WHEN THERE IS A FIRE IN THE BUILDING.
B. NOTIFY THE CENTRAL MONITORING STATION TO INITIATE EMERGENCY PERSONNEL RESPONSE.
C. ACTIVATE FIRE PROTECTION SYSTEMS IN ORDER TO RELEASE DOOR HOLDERS, CLOSE SMOKE DAMPERS AND SHUT DOWN FANS.
 - IF BUILDING OCCUPANTS ASSIST WITH FIRE WATCH DUTIES, THE PROCEDURES FOR CONTACTING EMERGENCY PERSONNEL AND EVACUATING THE BUILDING ARE TO BE DISTRIBUTED TO BUILDING OCCUPANTS. FOR PLANNED OUTAGES, THE PROCEDURES ARE TO BE SENT OUT TO THE BUILDING OWNER FOR DISTRIBUTION.



CONCEALED SPRINKLER HEAD

1 NONE



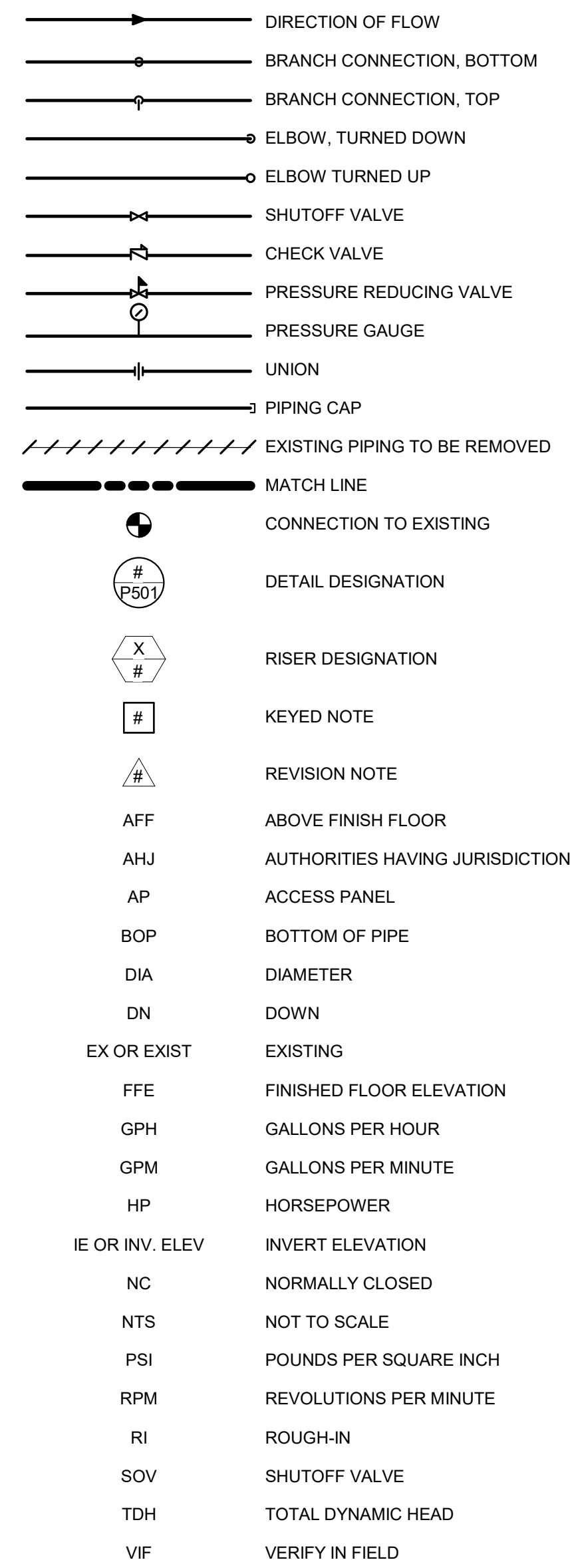
NOTE:
CL INDICATES CENTERLINE OF SPRINKLER HEAD

FIRE PROTECTION GENERAL NOTES - EXISTING PROJECT

- ALL WORK SHALL BE PERFORMED, INSTALLED, AND TESTED IN COMPLIANCE WITH THE CODES AND AMENDMENTS ADOPTED BY THE INSPECTION AUTHORITY. NOTHING IN THESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES OR OTHERS APPLICABLE TO THIS PROJECT.
A. 2021 - IBC
B. 2021 - IBC
C. UFC 3-600-01
D. OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA)
E. NATIONAL FIRE PROTECTION ASSOCIATION EDITIONS LISTED IN THE IBC OR MOST CURRENT EDITIONS OF THE FOLLOWING:
a. NFPA 13
b. NFPA 14
c. NFPA 20
d. NFPA 24
e. NFPA 25
- THE WORK CONSISTS OF FURNISHING ALL LABOR AND MATERIALS NECESSARY TO INSTALL, COMPLETE AND READY CONTINUOUS OPERATION, THE FIRE PROTECTION SYSTEMS, APPARATUS AND EQUIPMENT FOR THIS PROJECT, AS SHOWN ON THE DRAWINGS, PLUS AS REQUIRED BY NFPA 13 AND THE AUTHORITY HAVING JURISDICTION (AHJ).
- THE CONTRACTOR SHALL INCLUDE IN THEIR BID, A FULLY CODE COMPLIANT AND COORDINATED SPRINKLER SYSTEM. SPRINKLER LOCATIONS ARE SHOWN TO ESTABLISH QUANTITY, AND DESIRED LOCATION, EXACT QUANTITY OF SPRINKLERS IS THE CONTRACTOR'S RESPONSIBILITY. PROJECT SHALL BE DESIGNED, CONSTRUCTED, AND TESTED PER THE NFPA STANDARDS AND/OR FM GLOBAL REQUIREMENTS.
- THESE DRAWINGS ARE ACCURATE TO THE BEST OF OUR KNOWLEDGE, HOWEVER, LOCATIONS, DEPTHS, ELEVATIONS AND SIZES WERE TAKEN FROM DIFFERENT SOURCES AND ARE SUBJECT TO DEVIATION. THE CONTRACTOR SHALL ASSUME SOME DEVIATIONS AND INCLUDE OFFSETS, ADDITIONAL PIPING, ETC AT THE TIME OF BID.
- ALL SYSTEMS, EQUIPMENT, AND MATERIALS ARE TO BE INSTALLED IN A NEAT WORKMAN LIKE MANNER, WORK NOT DONE SO SHALL BE REMOVED AND REINSTALLED SATISFACTORILY.
- THE FIRE PROTECTION BID IS A DELEGATED DESIGN CONTRACT. BEFORE SUBMITTING THE BID, THE CONTRACTOR SHALL VISIT THE SITE AND BECOME THOROUGHLY FAMILIAR WITH ALL EXISTING CONDITIONS AND VERIFY LOCATIONS, ELEVATIONS, AND SIZES OF ALL UTILITIES AT SITE PRIOR TO PROCEEDING WITH WORK. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY ASSUMPTIONS, OMISSIONS, OR ERRORS MADE AS A RESULT OF THE FAILURE TO BECOME FULLY FAMILIAR WITH EXISTING CONDITIONS. EXISTING SYSTEMS AND STRUCTURE SHALL BE INVESTIGATED FOR BEST POSSIBLE ROUTING OF FIRE PROTECTION PIPING.
- WHEN PLACING NEW SPRINKLERS AND ROUTING NEW SPRINKLER PIPING, CONTRACTOR SHALL VERIFY LOCATIONS OF POTENTIAL OBSTRUCTIONS FROM MECHANICAL EQUIPMENT AND ARCHITECTURAL FEATURES PRIOR TO BID AND PRICE ACCORDINGLY TO MAKE ALLOWANCES IN BID.
- THE CONTRACTOR SHALL PERFORM A FLOW TEST PRIOR TO DESIGN AND SUBMITTAL OF THE HYDRAULLICALLY CALCULATED SYSTEM. THE FLOW TEST SHALL NOT BE MORE THAN [6] 12 MONTHS OLD FROM THE DATE OF CONSTRUCTION.
- AT LEAST ONE HYDRAULIC CALCULATION SHALL BE PROVIDED PER SPRINKLER ZONE BASED ON THE CURRENT FLOW TEST. THE CALCULATION WILL INCLUDE HOSE ALLOWANCES AT THE BASE OF THE RISER PER NFPA 13 REQUIREMENTS BASED ON THE IDENTIFIED HAZARD. THERE WILL BE A 10% SAFETY ALLOWANCE PROVIDED FOR THE SPRINKLER SYSTEM BASED ON THE AVAILABLE PRESSURE AT THE SOURCE AND SYSTEM DEMAND. (10% OF THE SUM OF THE SPRINKLER DEMAND PLUS THE SAFETY FACTOR).
- THE CONTRACTOR SHALL SUBMIT ALL DRAWINGS AND CALCULATIONS TO THE FIRE DEPARTMENT, GOVERNING AGENCIES, AND INSURING AGENCY AND RECEIVE APPROVAL PRIOR TO SUBMITTING DESIGN SHOP DRAWINGS.
- SUBMIT ACCURATE AS-BUILT DRAWINGS TO THE ENGINEER AND OWNER.
- IF THIS CONTRACTOR DOES NOT CLEARLY UNDERSTAND THESE PLANS OR IS NOT COMPLETELY SURE OF THEIR MEANING, THIS CONTRACTOR SHOULD OBTAIN THE ENGINEER'S WRITTEN EXPLANATION AND/OR INTERPRETATION PRIOR TO SUBMITTING BIDS. SINCE THIS CONTRACTOR WILL BE HELD RIGIDLY TO THE INTERPRETATION OF THE ENGINEER, ANY INFORMATION PROVIDED TO THE CONTRACTOR BY THE ENGINEER SHALL BE SUBMITTED AS AN RFI AND/OR ADDENDUM.
- THESE PLANS ARE DIAGRAMMATIC IN NATURE SINCE THE ONLY AVAILABLE INFORMATION HAS BEEN OBTAINED FROM EXISTING PLANS, SPECIFICATIONS, AND FIELD SURVEYS. THE EXACT LOCATION OF PIPING AND EQUIPMENT MAY DEVIATE FROM THE LOCATION INDICATED BY THESE DRAWINGS. EXTREME ACCURACY IS NOT GUARANTEED. THIS CONTRACTOR SHALL BE PREPARED TO MAKE ALTERATIONS TO NEW AND/OR EXISTING SERVICES TO FIT JOB CONDITIONS. THIS CONTRACTOR SHALL REPORT, IN WRITING, ANY DISCREPANCIES WHICH PREVENT THE INSTALLATION OF WORK AS SHOWN.
- IT IS ASSUMED THAT AREAS OUTSIDE THE SCOPE OF WORK ARE TESTED, MAINTAINED, AND MEET THE CODE REQUIREMENTS WHEN IT WAS INSTALLED, AND THE EXISTING SYSTEM IS ACCEPTED BY THE LOCAL AHJ. WORK PERFORMED WITHIN SCOPE OF WORK WILL PROVIDE A SYSTEM TO MEET THE REQUIREMENTS SET BY THE AHJ LIMITED BY THE BOUNDARY OF WORK.
- THE SPRINKLER CONTRACTOR PRIOR TO TIME OF BID SHALL EVALUATE THE SITE AND VERIFY ALL SPRINKLER PIPING AND EQUIPMENT THAT IS EXISTING TO REMAIN WITHIN OR SERVING THE SCOPE OF WORK, IS IN GOOD WORKING CONDITION.
- FURNISH AND INSTALL TAMPER SWITCHES ON ALL INDICATING VALVES AND FLOW SWITCHES PER NFPA 13 REQUIREMENTS AND PER THE DESIGN DOCUMENTS BY THE CONTRACTOR.
- THE CONTRACTOR SHALL FURNISH DRAIN VALVES AND INSPECTOR'S TEST CONNECTIONS AS REQUIRED BY NFPA 13 REQUIREMENTS AND AT THE DISCRETION OF THE FIRE MARSHAL, ENGINEER OR GOVERNING AGENCY.
- ALL OPENINGS THROUGH FIRE RATED FLOORS, WALLS, OR PARTITIONS SHALL BE FIRE STOPPED WITH UL RATED ASSEMBLIES OF EQUAL OR GREATER FIRE RATING. ANY FIRESTOPPING WORK TO BE PROVIDED BY A CERTIFIED FIRE STOPPING CONTRACTOR. REFER TO FIRE STOPPING NOTES FOR ADDITIONAL INFORMATION.
- COORDINATE WITH STRUCTURAL ENGINEER WHEN SAW-CUTTING THROUGH CONCRETE FLOOR OR WALL CONSTRUCTION. LEAVE SUFFICIENT REBAR EXPOSED TO THE NEW REINFORCING REPLACEMENT CONCRETE AND/OR OTHER STRUCTURAL ATTACHMENTS FOR NEW CONSTRUCTION.
- VALVES, TAMPER SWITCHES, OR ANY MECHANICAL/ELECTRICAL ITEM SHALL NOT BE LOCATED ABOVE A HARD CEILING, UNLESS PROVIDED WITH EQUIVALENTLY RATED ACCESS AND SIGNAGE MEETING NFPA 13 REQUIREMENTS.
- SPRINKLERS SHALL BE LOCATED IN THE CENTER OF CEILING TILES. COORDINATE FINAL LAYOUT WITH ARCHITECT, AND OTHER DISCIPLINES.
- EXTENDED COVERAGE SPRINKLERS ARE PERMITTED. CONTRACTOR SHALL VERIFY ADDITIONAL PRESSURE REQUIREMENTS IF THIS TYPE IS SELECTED.
- THE SPRINKLER CONTRACTOR SHALL OBTAIN AND UTILIZE THE ARCHITECTURAL REFLECTED CEILING PLAN FOR THE LOCATING OF SPRINKLER HEADS. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR CEILING DEVICE LOCATIONS AND THE SPECIFICATIONS FOR COORDINATION DRAWING REQUIREMENTS.
- PIPING SHALL BE INSTALLED AT LEAST 12" ABOVE FINISHED CEILING ELEVATION TO ALLOW FOR SUITABLE ACCESS ABOVE CEILING.
- INSTALL NO PIPING IN A LOCATION OR MANNER WHICH WILL ALLOW FREEZING.
- COORDINATE PIPE ROUTING NEAR ELECTRICAL EQUIPMENT PER NFPA 70. PIPING IS NOT TO BE ROUTED ABOVE ELECTRICAL PANELS, TRANSFORMERS, COMPUTER RACKS ETC. FIELD VERIFY AND COORDINATE WITH ELECTRICAL CONTRACTOR ALL EXISTING AND NEW ELECTRICAL LOCATIONS PRIOR TO DESIGN OF THE FIRE PROTECTION PLANS.
- ROUTING OF SPRINKLER MAINS, BRANCHLINES, AND HEADS SHALL BE THOROUGHLY COORDINATED WITH ALL OTHER DISCIPLINES AND BUILDING STRUCTURE PRIOR TO SUBMISSION OF COORDINATED SHOP DRAWINGS. THIS IS OF THE UTMOST IMPORTANCE ESPECIALLY WHERE SPACE IS LIMITED. FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR COORDINATING, PREPARING, AND SUBMITTING COORDINATION DRAWINGS FOR APPROVAL/REVIEW.
- ADVISE THE ENGINEERS OF ANY CONFLICTS, ERRORS, OMISSIONS, ETC. AT LEAST 10 DAYS PRIOR TO BID DATE. TO ALLOW CLARIFICATION BY WRITTEN ADDENDUM.
- IF SEISMIC BRACING IS REQUIRED, FIRE PROTECTION CONTRACTOR SHALL FURNISH AND INSTALL ALL END OF BRANCH LINE RESTRAINTS PER NFPA 13.
- SPRINKLER CONTRACTOR TO AVOID ROUTING PIPE THROUGH SHEAR WALLS. ANY SHEAR WALL PENETRATIONS SHALL BE COORDINATED WITH THE STRUCTURAL ENGINEER. REFER TO STRUCTURAL DRAWINGS FOR SHEAR WALL LOCATIONS.
- THE FIRE SERVICE LEAD-IN, BACKFLOW PREVENTOR, AND FIRE DEPARTMENT CONNECTION ARE EXISTING TO REMAIN.
- WHEN WORK REQUIRES TEMPORARY INTERRUPTIONS OF FIRE PROTECTION SERVICES OR UTILITIES THE FOLLOWING ACTIONS WILL BE TAKEN:
A. COORDINATION WITH MAINTENANCE PERSONNEL TO SHUT OF SERVICES AT NEAREST MAIN.
B. PROVIDE TEMPORARY AND ACCESSIBLE ISOLATION VALVES CLOSE TO THE POINT OF WORK.
C. ENSURE BUILDING OPERATIONS CONTINUE WITH MINIMAL INTERRUPTIONS AND OPERATION OF EXISTING SYSTEMS BE INTERFACED WITH AS LITTLE DISRUPTION AS POSSIBLE EXCEPT IN VACATED AREAS.
D. WORK INTERRUPTING WITH OPERATION OF DOWNTIME WILL BE SCHEDULED AFTER CONSULTATION WITH AND PERMISSION GIVEN BY OWNER 10 DAYS PRIOR TO ANTICIPATED INTERRUPTION OF SYSTEMS.
E. SUCH WORK MAY BE REQUIRED TO BE PERFORMED OUTSIDE OF NORMAL WORKING HOURS.
F. REFER TO FIRE WATCH NOTES FOR DISRUPTION OF FIRE SPRINKLER SYSTEMS IN OCCUPIED BUILDINGS WHEN DISRUPTION EXCEEDS 4 HOURS.

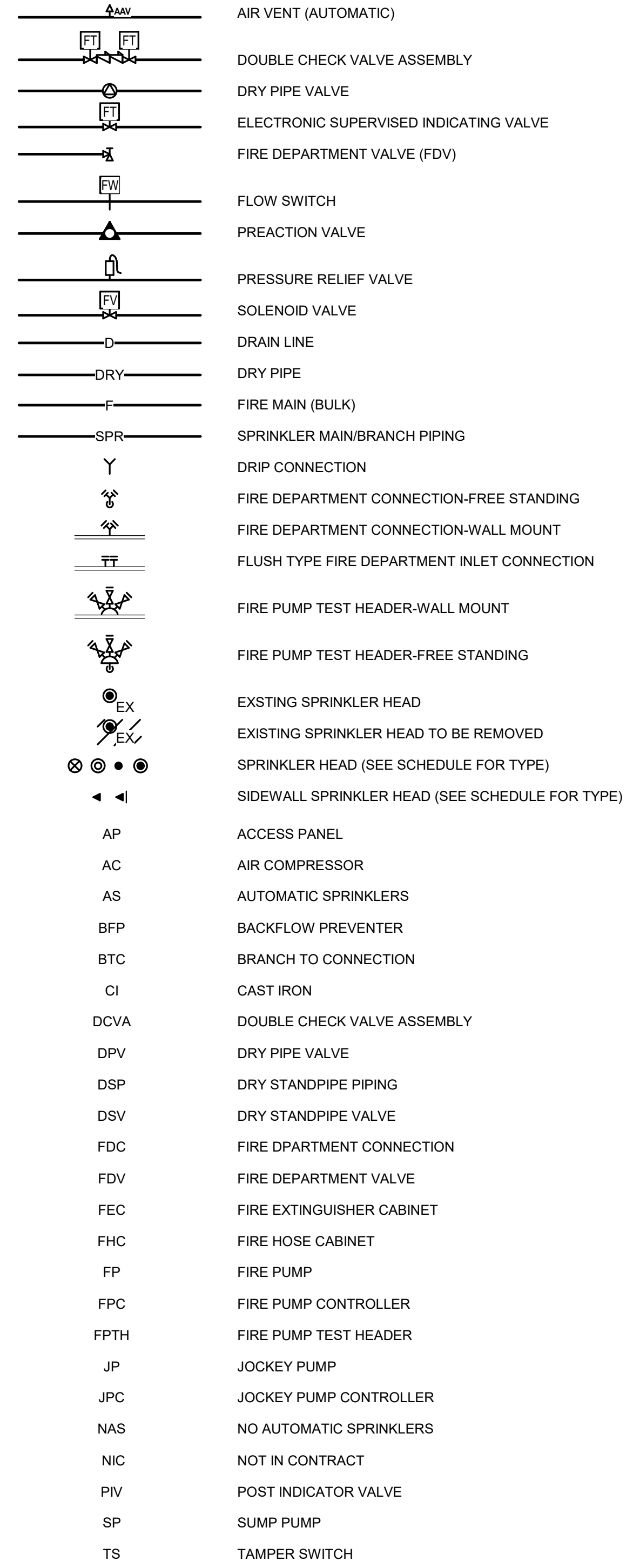
COMMON FIRE PROTECTION SYMBOLS & ABBREVIATIONS

NOT ALL SYMBOLS ARE USED FOR THIS PROJECT



FIRE PROTECTION SYMBOLS & ABBREVIATIONS

NOT ALL SYMBOLS ARE USED FOR THIS PROJECT



FIRE STOPPING NOTES

- MATERIALS: USE ONLY FIRE STOP PRODUCTS THAT HAVE BEEN UL 1479, ASTM E-814, OR UL 2079 TESTED FOR SPECIFIC FIRE RATE CONSTRUCTION CONDITIONS CONFORMING TO CONSTRUCTION ASSEMBLY TYPE, PENETRATING ITEM TYPE, ANNUAL SPACE REQUIREMENTS, AND FIRE RATING INVOLVED FOR EACH SEPARATE INSTANCE.
- FOR SINGLE PENETRATIONS: A READY-TO-USE LATEX BASED INTUMESCENT SEALANT IS REQUIRED TO MAINTAIN THE FIRE RATING OF THE ASSEMBLY PENETRATED. THE SEALANT MUST HAVE UL LISTING FOR BOTH SLEEVED AND NON-SLEEVED APPLICATIONS.
- FOR LARGE OPENINGS: CONTAINING MULTIPLE PENETRATIONS (2 OR MORE), A READY-TO-USE FOAM INTUMESCENT BLOCK MATERIAL MUST BE ABLE TO BE REMOVED AND REINSTALLED WITHOUT COMPROMISING FIRE PROTECTION INTEGRITY. COMPLY WITH MANUFACTURER'S RECOMMENDED PROCEDURES AND PRECAUTIONS. DO NOT USE DAMAGED OR EXPIRED MATERIALS.
- MANUFACTURERS: JOHNS MANVILLE INTERNATIONAL, 3M BRAND, CSP SEALING SYSTEMS, HILTI, CIBA-GEIGY, HEAVY-DUTY/NEALSON. REFER TO DIVISION 7 FOR FURTHER REQUIREMENTS.

FIRE PROTECTION DEMOLITION NOTES

- ALL PIPING HANGERS AND SUPPORTS SHALL BE REMOVED ALONG WITH ANY PIPING THAT IS BEING DEMOLISHED.
- PROTECT PIPING WHICH IS NOT TO BE REMOVED FROM DAMAGE, DIRT AND DEBRIS.
- ALL FIRE EQUIPMENT AND MATERIALS NOT CLAIMED BY THE OWNER SHALL BE REMOVED FROM THE PREMISES AND PROPERLY DISPOSED OF BY THE DEMOLITION CONTRACTOR.
- THE CONTRACTOR SHALL PLUG OR CAP ALL PIPING OUTLETS NOT INTENDED FOR REUSE.
- CEILING REMOVAL, STORAGE, AND REPLACEMENT WILL BE MADE BY THE CONTRACTOR AND IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO REPAIR THE EXISTING SURFACES TO REMAIN WHERE THEIR WORK HAS BEEN COMPLETED. REPAIR INCLUDES BUT SHALL NOT BE LIMITED TO, ANY EXISTING WALL, CEILING, OR FLOOR THAT IS SCHEDULED TO REMAIN. REPAIR, PAINTING, AND PATCHING SHALL BE COMPLETED BY AN APPROPRIATE CONTRACTOR QUALIFIED FOR THIS TYPE OF WORK.
- IF HAZARDOUS MATERIALS ARE ENCOUNTERED DURING DEMOLITION OPERATIONS, THE CONTRACTOR WILL NOTIFY BUILDING OWNER OF THE HAZARDOUS MATERIAL.
- ARCHITECTURAL DEMOLITION DRAWINGS AND SPECIFICATIONS SHALL BE READ IN CONJUNCTION WITH THESE DRAWINGS.
- THE CONTRACTOR SHALL COORDINATE DEMOLITION WORK WITH PROJECT'S PHASING SCHEDULE PRIOR TO ANY WORK.

BSA

BSA LifeStructures
12645 Olive Blvd, Suite 227
Creve Coeur, MO 63141
ph 314.754.6306 fx 314.754.4452
Architectural Registration Number - 2003019309

Ross & Baruzzini

MEP ENGINEERING:
Ross & Baruzzini
6 S Old Orchard Ave
St. Louis, MO 63119
ph 314.918.8383 www.rossbar.com
Missouri State Certificate of Authority #0001498

Timberlake ENGINEERING

A Custom Engineering Company

LIGHTING ENGINEERING:
Timberlake Engineering
912 Old Highway 63 South
Columbia, MO 65201
ph 573.875.4365 ext 209 www.customenr.com
Missouri State Certificate of Authority #000239

Health Care

MU PROJECT NO. - CP221944

UPMB 4th FLOOR MOA CLINIC RENOVATION

1020 Hitt St, Columbia, MO 65212

BID SET

MARK	DATE	DESCRIPTION

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FIRE PROTECTION SYMBOLS AND ABBREVIATIONS

DATE: 3 OCTOBER, 2022
BSALS PROJECT NO. 14110005

FP000

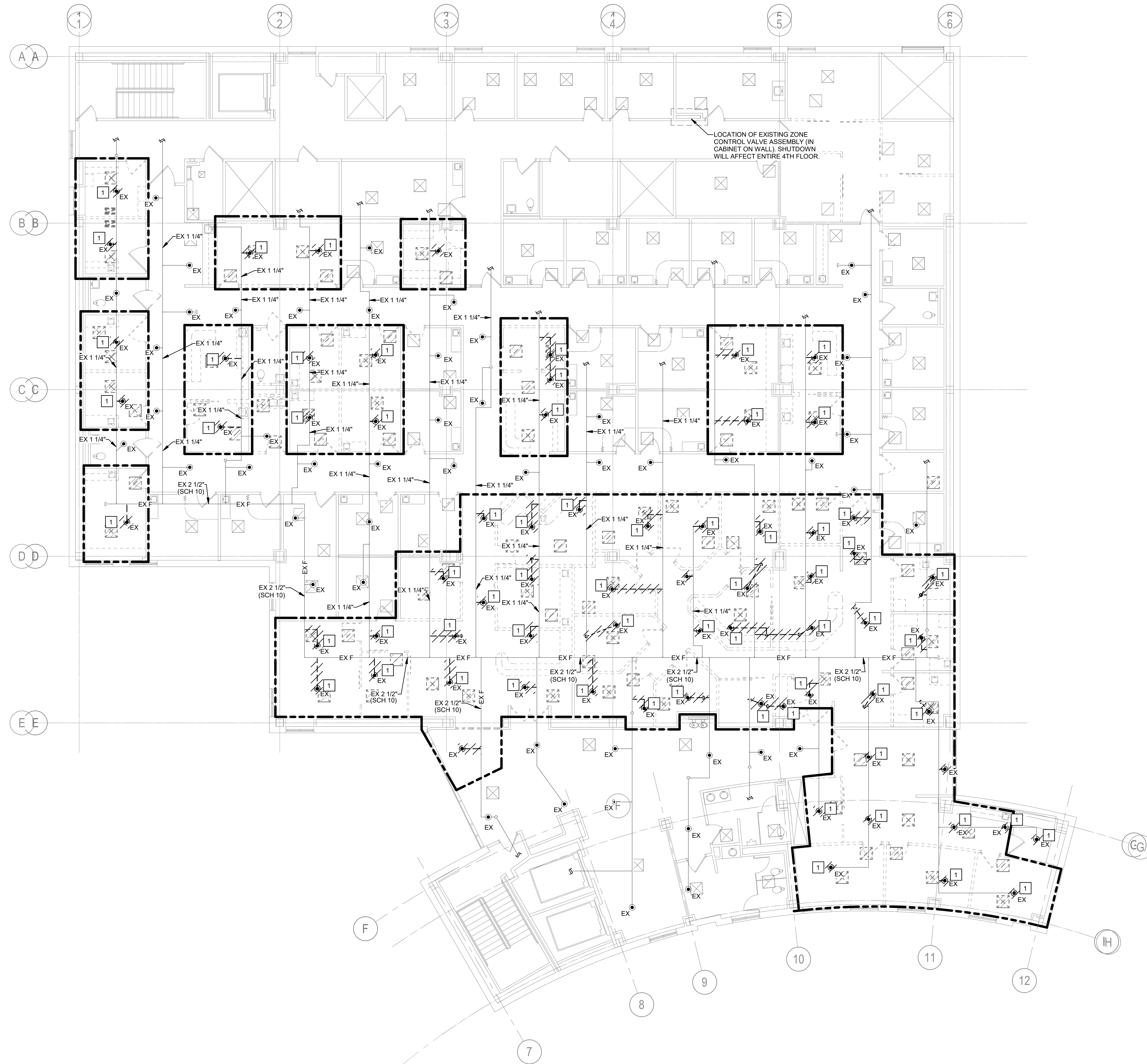
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GENERAL SHEET NOTES

- FIRE SPRINKLER SYSTEM OUTAGES SHALL BE LIMITED IN TIME AND APPROVED BY UMHC.
- ONLY SCHEDULE 40 PIPING SHALL BE USED. CONTRACTOR SHALL VERIFY SPRINKLER PIPING SCHEDULE AND NOTIFY OWNER BEFORE WORK COMMENCES.
- ONLY FULLY CONCEALED-TYPE SPRINKLER HEADS SHALL BE USED.
- COORDINATE ALL SPRINKLER HEAD LOCATIONS WITH CEILING LAYOUT, NEW ARCHITECTURAL FEATURES, CEILING-MOUNTED DEVICES, AND ACROSS ALL DISCIPLINES.
- FLEXIBLE SPRINKLER HEADS ARE NOT ALLOWED FOR THIS PROJECT.
- FIRE PROTECTION SHOP DRAWINGS TO BE PROVIDED, SIGNED AND SEALED BY A LICENSE FIRE PROTECTION ENGINEER IN THE STATE OF MISSOURI.
- TEMPORARY FIRE SPRINKLER PROTECTION SHALL BE PROVIDED.

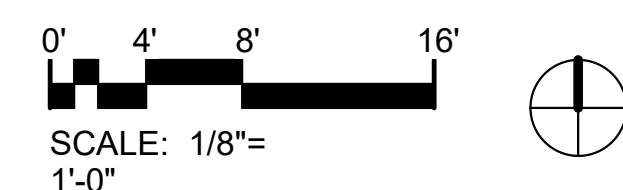
KEYED NOTES

- EXISTING SPRINKLER HEAD AND ARM-OVER PIPING TO BE DEMOLISHED BACK TO BRANCH LINE.



1 FIRE PROTECTION FOURTH FLOOR - DEMOLITION PLAN

1/8" = 1'-0"



MARK	DATE	DESCRIPTION

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FIRE PROTECTION FOURTH FLOOR DEMOLITION PLAN

DATE 3 OCTOBER, 2022
BSALS PROJECT NO. 14110005

GENERAL SHEET NOTES

- FIRE SPRINKLER SYSTEM OUTAGES SHALL BE LIMITED IN TIME AND APPROVED BY UMHC.
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- ONLY FULLY CONCEALED-TYPE SPRINKLER HEADS SHALL BE USED.
- COORDINATE ALL SPRINKLER HEAD LOCATIONS WITH CEILING LAYOUT, NEW ARCHITECTURAL FEATURES, CEILING-MOUNTED DEVICES, AND ACROSS ALL DISCIPLINES.
- FLEXIBLE SPRINKLER HEADS ARE NOT ALLOWED FOR THIS PROJECT.
- FIRE PROTECTION SHOP DRAWINGS TO BE PROVIDED, SIGNED AND SEALED BY A LICENSE FIRE PROTECTION ENGINEER IN THE STATE OF MISSOURI.
- TEMPORARY FIRE SPRINKLER PROTECTION SHALL BE PROVIDED.

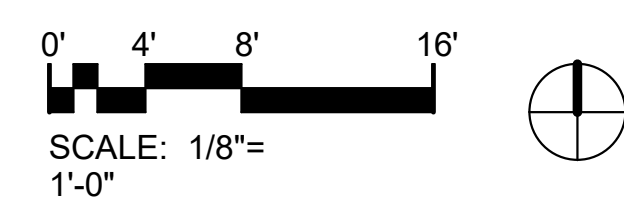
KEYED NOTES

- AREA TO BE CONSIDERED LIGHT HAZARD WITH A SPRINKLER DISCHARGE DENSITY OF 0.10 GPM/SQ. FT. FOR THE MOST HYDRAULICALLY REMOTE 1500 SQ. FT. AND A HOSE STREAM OF 100 GPM. CONTRACTOR SHALL PROVIDE A COMPLETE CODE COMPLIANT AUTOMATIC WET PIPE SYSTEM. SPRINKLER SPACING SHALL BE BASED ON LISTED VALUE AND DISTANCES ESTABLISHED BY NFPA AND FM.



1 FIRE PROTECTION FOURTH FLOOR - NEW REFLECTED CEILING PLAN

1/8" = 1'-0"



MARK	DATE	DESCRIPTION
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FIRE PROTECTION FOURTH FLOOR NEW WORK PLAN

DATE: 3 OCTOBER, 2022
BSALS PROJECT NO. 14110005

PROCESS PIPING SYMBOLS & ABBREVIATIONS

NOT ALL SYMBOLS ARE USED FOR THIS PROJECT

AR	ARGON PIPING
CA	COMPRESSED AIR PIPING (NON-MEDICAL)
CAI	COMPRESSED AIR INTAKE PIPING (NON-MEDICAL)
CO2	CARBON DIOXIDE PIPING
DA	DENTAL AIR PIPING
DAI	DENTAL AIR INTAKE PIPING
DV	DENTAL VACUUM PIPING
DVE	DENTAL VACUUM EXHAUST PIPING
G	NATURAL GAS PIPING
LOW	LAB COLD WATER
LHW	LAB HOT WATER
LG	LAB GAS PIPING
LV	LAB VACUUM PIPING
MA	MEDICAL AIR PIPING
MAI	MEDICAL AIR INTAKE PIPING
MV	MEDICAL VACUUM PIPING
MVE	MEDICAL VACUUM EXHAUST PIPING
WAGD	WASTE ANESTHETIC GAS DISPOSAL PIPING
OX	OXYGEN PIPING
N2	NITROGEN PIPING
N2O	NITROUS OXIDE PIPING
□ or ±	EXISTING GAS OUTLET
■ or ±	NEW GAS OUTLET
⊗	EXISTING ZONE VALVE DESIGNATION
⊕	NEW ZONE VALVE DESIGNATION
⊙	EXISTING AREA ALARM DESIGNATION
⊚	NEW AREA ALARM DESIGNATION
⊛	EXISTING MEDICAL GAS MASTER ALARM DESIGNATION
⊜	NEW MEDICAL GAS MASTER ALARM DESIGNATION
AA	AREA ALARM
ESOV	EMERGENCY SHUT-OFF VALVE
ZV	ZONE VALVE

PLUMBING SYMBOLS & ABBREVIATIONS

NOT ALL SYMBOLS ARE USED FOR THIS PROJECT

⊖	TRAPPED CONNECTION
⊗	STRAINER
⊕	BALANCING VALVE
⊖	CLEANOUT (CO)
⊕	OS & Y GATE VALVE
⊕	TEMPERATURE GAUGE
⊕	THERMOSTATIC MIXING VALVE
⊕	REDUCED PRESSURE BACKFLOW PREVENTER
⊕	HOSE BIBB/WALL HYDRANT
⊕	ACID VENT
AW	ACID WASTE
D	DRAIN PIPING
DI	DEIONIZED WATER PIPING
RO	REVERSE OSMOSIS PIPING (RO)
---	DOMESTIC COLD WATER PIPING (CW)
---	DOMESTIC HOT WATER PIPING (HW)
---	DOMESTIC HOT WATER RETURN PIPING (HWR)
NP	NON-POTABLE WATER PIPING
PD	PUMP DISCHARGE PIPING
S	SANITARY PIPING
SSD	SUBSOIL DRAINAGE PIPING
ST	STORM PIPING
OST	OVERFLOW STORM PIPING
TW	TEMPERED WATER
---	VENT PIPING
⊗	EXISTING FIXTURE TO BE REMOVED
□	EXISTING FIXTURE
□	NEW FIXTURE
⊗	FLEXIBLE CONNECTION
□	FLOOR DRAIN/FLOOR SINK (FD/FS)
⊕	CIRCULATION PUMP

COMMON PLUMBING SYMBOLS & ABBREVIATIONS

NOT ALL SYMBOLS ARE USED FOR THIS PROJECT

→	DIRECTION OF FLOW
→	BRANCH CONNECTION, BOTTOM
→	BRANCH CONNECTION, TOP
→	ELBOW, TURNED DOWN
→	ELBOW TURNED UP
→	SHUTOFF VALVE
→	CHECK VALVE
→	PRESSURE REDUCING VALVE
→	PRESSURE GAUGE
→	UNION
→	PIPING CAP
---	EXISTING PIPING TO BE REMOVED
---	MATCH LINE
⊕	CONNECTION TO EXISTING
# P501	DETAIL DESIGNATION
X #	RISER DESIGNATION
#	KEYED NOTE
△	REVISION NOTE
AFF	ABOVE FINISH FLOOR
AHJ	AUTHORITIES HAVING JURISDICTION
AP	ACCESS PANEL
BOP	BOTTOM OF PIPE
DIA	DIAMETER
DN	DOWN
EX OR EXIST	EXISTING
FFE	FINISHED FLOOR ELEVATION
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
IE OR INV. ELEV	INVERT ELEVATION
NC	NORMALLY CLOSED
NTS	NOT TO SCALE
PSI	POUNDS PER SQUARE INCH
RPM	REVOLUTIONS PER MINUTE
RI	ROUGH-IN
SOV	SHUTOFF VALVE
TDH	TOTAL DYNAMIC HEAD
VIF	VERIFY IN FIELD

PLUMBING ABBREVIATIONS

NOT ALL SYMBOLS ARE USED FOR THIS PROJECT

ADA	AMERICANS WITH DISABILITIES ACT
AP	ACCESS PANEL
BP	BOOSTER PUMP
BT	BATHTUB
BTC	BRANCH TO CONNECTION
BV	BALANCE VALVE
CI	CAST IRON
CO	CLEANOUT
CSS	CLINICAL SERVICE SINK
DCVA	DOUBLE CHECK VALVE ASSEMBLY
DS	DOWNSPOUT
DW	DISHWASHER
DWH	DOMESTIC WATER HEATER
EEW	EMERGENCY EYE WASH
ESEW	EMERGENCY SHOWER & EYE WASH
ESH	EMERGENCY SHOWER
ET	EXPANSION TANK
EW	ELECTRIC WATER COOLER
FCO	FLOOR CLEAN OUT
GCO	GRADE CLEANOUT
GD	GARBAGE DISPOSAL
HB	HOSE BIBB
HWRP	HOT WATER RETURN PUMP
HWST	HOT WATER STORAGE TANK
IM	ICE MAKER
IW	INDIRECT WASTE
LA	LAVATORY
MB	MOP BASIN
NIC	NOT IN CONTRACT
OB	OUTLET BOX
RD	ROOF DRAIN
RPZ	REDUCED PRESSURE BACKFLOW PREVENTER
S	SANITARY
S/S	STAINLESS STEEL
SH	SHOWER
SK	SINK
SP	SUMP PUMP
SS	SANITARY STACK
SSK	SHOP SINK
SW	SOFT WATER
TMV	THERMOSTATIC MIXING VALVE
UR	URNAL
V	VENT
VB	VACUUM BREAKER
VS	VENT STACK
VTR	VENT THRU ROOF
W	WASTE
WC	WATER CLOSET
WCO	WALL CLEANOUT
WD	WASHER DRAIN
WH	WALL HYDRANT
WHA	WATER HAMMER ARRESTOR
WM	WATER METER
WS	WASTE STACK
WSV	WASTE STACK VENT
YCO	YARD CLEANOUT

PLUMBING GENERAL NOTES

- DUE TO THE LIMITED SPACE AVAILABLE FOR THE INSTALLATION OF ALL THE PLUMBING WORK, COORDINATION BETWEEN ALL OTHER TRADES IS OF UTMOST IMPORTANCE.
- THIS CONTRACTOR SHALL VISIT THE PROJECT SITE AND VERIFY LOCATIONS, ELEVATIONS AND SIZES OF ALL UTILITIES AT SITE PRIOR TO PROCEEDING WITH WORK. EXISTING SYSTEMS AND STRUCTURE SHALL BE INVESTIGATED FOR BEST POSSIBLE ROUTING OF COLD WATER, HOT WATER, SANITARY WASTE AND VENT, STORM AND MEDICAL LABORATORY GAS PIPING.
- THESE PLANS ARE DIAGRAMMATIC IN NATURE SINCE THE ONLY AVAILABLE INFORMATION HAS BEEN OBTAINED FROM EXISTING PLANS, SPECIFICATIONS, AND FIELD SURVEYS. THE EXACT LOCATION OF PIPING, FIXTURES AND EQUIPMENT MAY DEViate FROM THE LOCATION INDICATED ON THESE DRAWINGS. EXTREME ACCURACY IS NOT GUARANTEED. THIS CONTRACTOR SHALL BE PREPARED TO MAKE ALTERATIONS TO NEW AND/OR EXISTING SERVICES TO FIT JOB CONDITIONS. THIS CONTRACTOR SHALL FURNISH A COMPLETE CODE COMPLYING SYSTEM. THIS CONTRACTOR SHALL REPORT, IN WRITING, ANY DISCREPANCIES WHICH PREVENT THE INSTALLATION OF WORK AS SHOWN.
- IF THIS CONTRACTOR DOES NOT CLEARLY UNDERSTAND THESE PLANS OR IS NOT COMPLETELY SURE OF THEIR MEANING, THIS CONTRACTOR SHOULD OBTAIN THE ENGINEER'S WRITTEN EXPLANATION AND/OR INTERPRETATION PRIOR TO SUBMITTING BIDS, SINCE THIS CONTRACTOR WILL BE HELD RIGIDLY TO THE INTERPRETATION OF THE ENGINEER.
- IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO REPAIR THE EXISTING SURFACES TO REMAIN WHERE THEIR WORK HAS BEEN COMPLETED. REPAIR SHALL INCLUDE, BUT NOT LIMITED TO, ANY EXISTING WALL, CEILING OR FLOOR THAT IS SCHEDULED TO REMAIN. REPAIR, PAINTING, AND PATCHING SHALL BE COMPLETED BY AN APPROPRIATE CONTRACTOR QUALIFIED FOR THIS TYPE OF WORK.
- THE OWNER SHALL MAINTAIN ALL SALVAGE RIGHTS OF FIXTURES, EQUIPMENT AND MATERIALS REMOVED. HOWEVER, ALL FIXTURES, EQUIPMENT AND MATERIALS NOT CLAIMED BY THE OWNER SHALL BE REMOVED FROM THE PREMISES AND PROPERLY DISPOSED OF BY THE DEMOLITION CONTRACTOR.
- CEILING REMOVAL, STORAGE AND REPLACEMENT FOR NEW PIPING INSTALLATION SHALL BE BY THE GENERAL CONTRACTOR.
- IF HAZARDOUS MATERIALS ARE ENCOUNTERED DURING DEMOLITION OPERATIONS, THE CONTRACTOR WILL NOTIFY BUILDING OWNER OF THE HAZARDOUS MATERIAL.
- TEMPORARY CONNECTION SHALL BE PROVIDED BY RESPECTIVE PLUMBING AND FIRE PROTECTION CONTRACTORS WHEN EXTENDED INTERRUPTIONS OF SERVICES AND UTILITIES SUCH AS WATER, WASTE AND FIRE PROTECTION WHICH SERVE OTHER AREAS ARE NECESSARY.
- COORDINATE WITH MAINTENANCE PERSONNEL AS TO SOURCE OF UTILITIES AND TEMPORARILY DISCONNECT OR SHUT OFF SERVICES OR UTILITIES AT NEAREST MAIN. TEMPORARY AND ACCESSIBLE ISOLATION VALVES SHALL BE INSTALLED CLOSE TO THIS POINT OF WORK.
- IT IS ESSENTIAL THAT BUILDING OPERATIONS CONTINUE WITH MINIMAL INTERRUPTIONS. IT IS NECESSARY THAT OPERATION OF EXISTING SYSTEMS BE INTERFACED WITH AS LITTLE DISRUPTION AS POSSIBLE EXCEPT IN AREAS VACATED FOR CONSTRUCTION WORK. WORK WHICH WILL INTERFERE WITH OPERATION OF EXISTING FIRE SUPPRESSION AND PLUMBING SYSTEMS OR WHICH REQUIRE DOWNTIME WILL BE SCHEDULED ONLY AFTER CONSULTATION WITH AND PERMISSION GIVEN BY THE OWNER. ALLOW 10 DAYS PRIOR TO ANTICIPATED INTERRUPTION OF SYSTEMS. WORK MAY BE REQUIRED TO BE PERFORMED OUTSIDE NORMAL WORKING HOURS.
- ARCHITECTURAL DEMOLITION DRAWINGS AND SPECIFICATIONS SHALL BE READ IN CONJUNCTION WITH THESE DRAWINGS.
- ALL PIPING HANGERS AND SUPPORTS SHALL BE REMOVED ALONG WITH PIPING BEING REMOVED.
- THE CONTRACTOR SHALL COORDINATE DEMOLITION WORK WITH PROJECTS PHASING SCHEDULE PRIOR TO COMMENCEMENT OF ANY WORK.
- WHEN PLACING NEW PLUMBING FIXTURES, CONTRACTOR SHALL VERIFY LOCATIONS OF PLUMBING VENTS. OFFSET VENTS THAT TERMINATE WITHIN 25 FEET OF HVAC UNITS OUTDOOR AIR INTAKES. CONTRACTOR SHALL FIELD VERIFY PRIOR TO BID WHERE THE INTERFERENCE'S ARE PRICE ACCORDINGLY OR MAKE ALLOWANCES IN BID.
- USE CAUTION WHEN SAW-CUTTING THROUGH EXISTING CONCRETE FLOOR OR WALL CONSTRUCTION FOR THE INSTALLATION OF PLUMBING SYSTEMS TO AVOID CUTTING REBAR AT EDGE OF OPENING. LEAVE SUFFICIENT REBAR EXPOSED TO THE NEW REINFORCING REPLACEMENT CONCRETE AND/OR OTHER STRUCTURAL ATTACHMENTS FOR NEW CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REVISIONS, TRANSITIONS, OFFSETS, ETC., TO AVOID DUCTWORK, PIPING, EQUIPMENT OR STRUCTURE NEW OR EXISTING AND TO MAKE A COMPLETE AND FUNCTIONING SYSTEM.

MARK	DATE	DESCRIPTION
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PLUMBING SYMBOLS AND ABBREVIATIONS

DATE: 3 OCTOBER, 2022
BSALS PROJECT NO.: 14110005

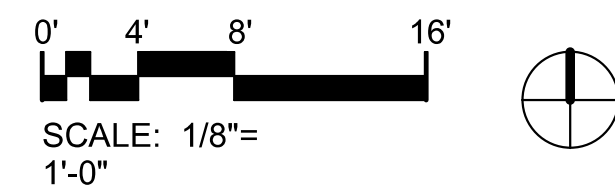
P000

#	KEYED NOTES
1.	EXISTING PIPING TO BE DEMOLISHED AND CAPPED WHERE SHOWN ON PLAN.
2.	EXISTING PIPING TO BE DEMOLISHED. NEW WASTE PIPING TO BE CONNECTED IN NEW WORK PHASE.
3.	EXISTING STACK TO BE DEMOLISHED AND RELOCATED IN NEW WALL SPACE IN NEW WORK PHASE.



1 PLUMBING THIRD FLOOR (UNDERFLOOR) - DEMOLITION PLAN

1/8" = 1'-0"



BSA
 BSA LifeStructures
 12645 Olive Blvd, Suite 227
 Creve Coeur, MO 63141
 ph 314.754.6306 fx 314.754.4452
 Architectural Registration Number - 2003010309

Ross & Baruzzini
 MEP ENGINEERING:
 Ross & Baruzzini
 6 S Old Orchard Ave
 St. Louis, MO 63119
 ph 314.918.8383 www.rossbar.com
 Missouri State Certificate of Authority #000148

Timberlake ENGINEERING
 A Custom Engineering Company
 LIGHTING ENGINEERING:
 Timberlake Engineering
 912 Old Highway 63 South
 Columbia, MO 65201
 ph 573.875.4365 ext 209 www.customengr.com
 Missouri State Certificate of Authority #000239

Health Care
 MU PROJECT NO. - CP221944
UPMB 4th FLOOR MOA CLINIC RENOVATION

1020 Hitt St, Columbia, MO 65212

BID SET

MARK	DATE	DESCRIPTION

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PLUMBING THIRD FLOOR DEMOLITION PLAN

DATE 3 OCTOBER, 2022
 BSALS PROJECT NO. 14110005

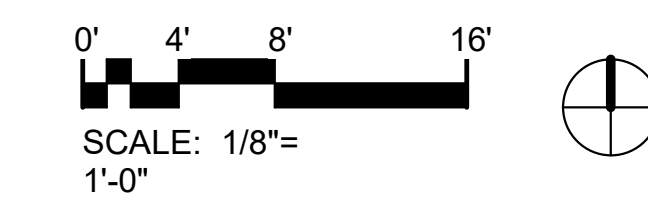
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 User: jbaruzzini
 APPROVED: jbaruzzini

#	KEYED NOTES
1.	EXISTING PLUMBING FIXTURE AND EXISTING ROUGH-IN PIPING TO BE DEMOLISHED.
2.	EXISTING PIPING TO BE DEMOLISHED AND CAPPED WHERE SHOWN ON PLAN.
3.	EXISTING MEDICAL VACUUM AND OXYGEN PIPING ARE NOT IN SERVICE. DEMOLISH BACK TO STAINLESS STEEL WALL PANEL (FORMER ZONE VALVE BOX) AND CAP.
4.	EXISTING STACK TO BE DEMOLISHED AND RELOCATED IN NEW WALL SPACE IN NEW WORK PHASE.
5.	EXISTING ELECTRIC WATER COOLER TO BE FITTED WITH HALSEY TAYLOR RETROFIT BOTTLE FILLING STATION (MODEL #HTHWF-OVL-RF). ONE WATER FOUNTAIN AND THE STAINLESS STEEL FRONT PANEL TO BE REMOVED AND REPLACED IN NEW WORK PHASE. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTION FOR MORE INFORMATION.
6.	EXISTING FLOOR DRAIN TO BE DEMOLISHED. ASSOCIATED WASTE PIPING TO BE DEMOLISHED BACK TO MAIN AND CAPPED.



1 PLUMBING FOURTH FLOOR - DEMOLITION PLAN
1/8" = 1'-0"



MARK	DATE	DESCRIPTION

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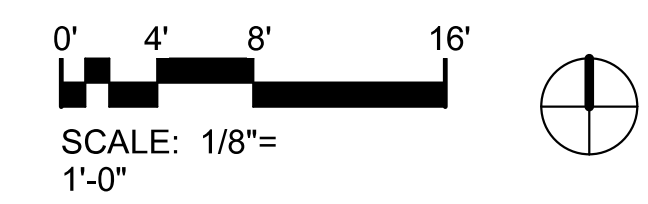
PLUMBING FOURTH FLOOR DEMOLITION PLAN

DATE: 3 OCTOBER, 2022
BSALS PROJECT NO.: 14110005

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 User: janet
 Status: Approved



1 PLUMBING THIRD FLOOR - NEW WORK PLAN
1/8" = 1'-0"



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**PLUMBING THIRD FLOOR
NEW WORK PLAN**

DATE	3 OCTOBER, 2022
BSALS PROJECT NO.	14110005

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 USER: jbaruzzini
 DRAWN: jbaruzzini
 APPROVED: jbaruzzini

- # KEYED NOTES**
- EXISTING ELECTRIC WATER COOLER TO BE FITTED WITH HALSEY TAYLOR RETROFIT BOTTLE FILLING STATION (MODEL #HTHW-CV-LRF). ONE WATER FOUNTAIN AND THE STAINLESS STEEL FRONT PANEL TO BE REMOVED AND REPLACED IN NEW WORK PHASE. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTION FOR MORE INFORMATION.
 - NEW SINK TO BE TIED INTO EXISTING ROUGH-IN.



BSA LifeStructures
12645 Olive Blvd, Suite 227
Creve Coeur, MO 63141
ph 314.754.6306 fx 314.754.4452
Architectural Registration Number - 2003010309



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LIGHTING ENGINEERING:
Timberlake Engineering
912 Old Highway 63 South
Columbia, MO 65201
ph 573.875.4365 ext 209 www.customengr.com
Missouri State Certificate of Authority #000239



MU PROJECT NO. - CP221944
UPMB 4th FLOOR MOA CLINIC RENOVATION

1020 Hitt St, Columbia, MO 65212

BID SET



MARK	DATE	DESCRIPTION
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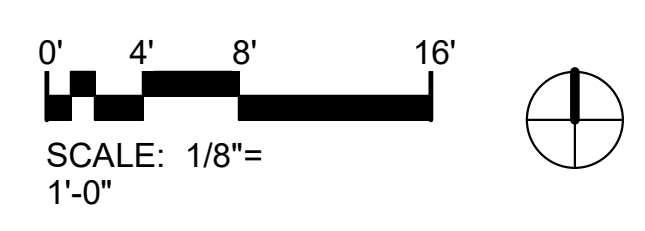


PLUMBING FOURTH FLOOR NEW WORK PLAN

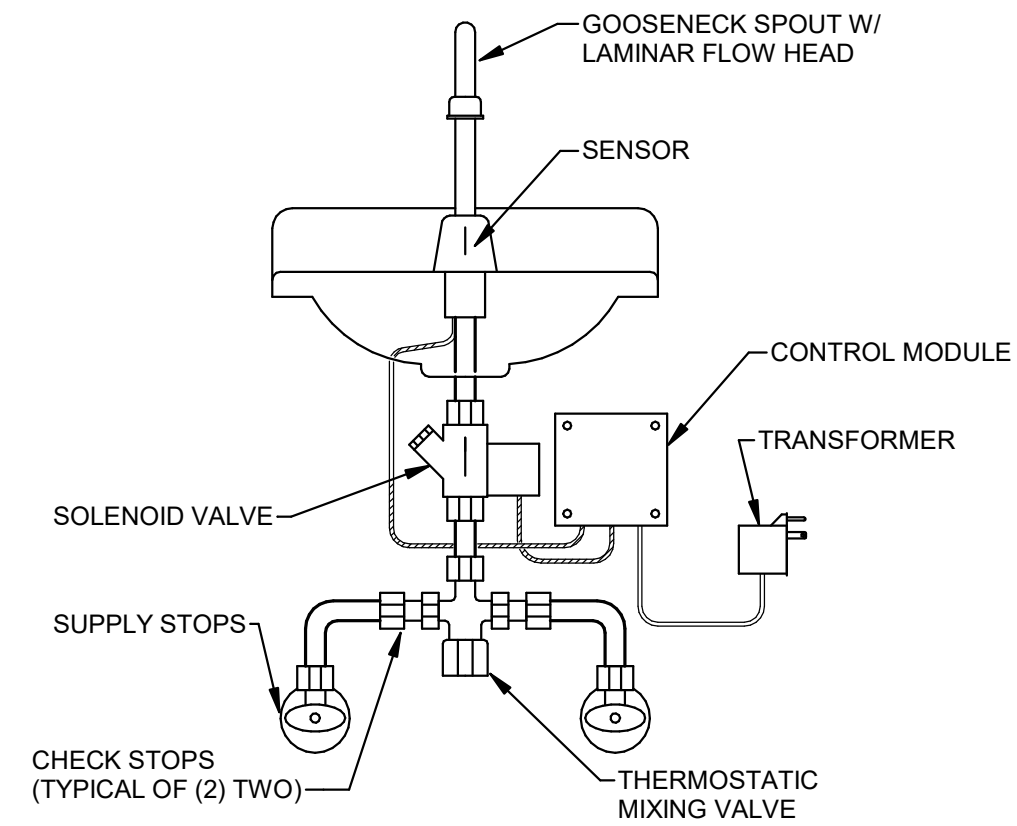
DATE 3 OCTOBER, 2022
BSALS PROJECT NO. 14110005

P101

1 PLUMBING FOURTH FLOOR - NEW WORK
1/8" = 1'-0"

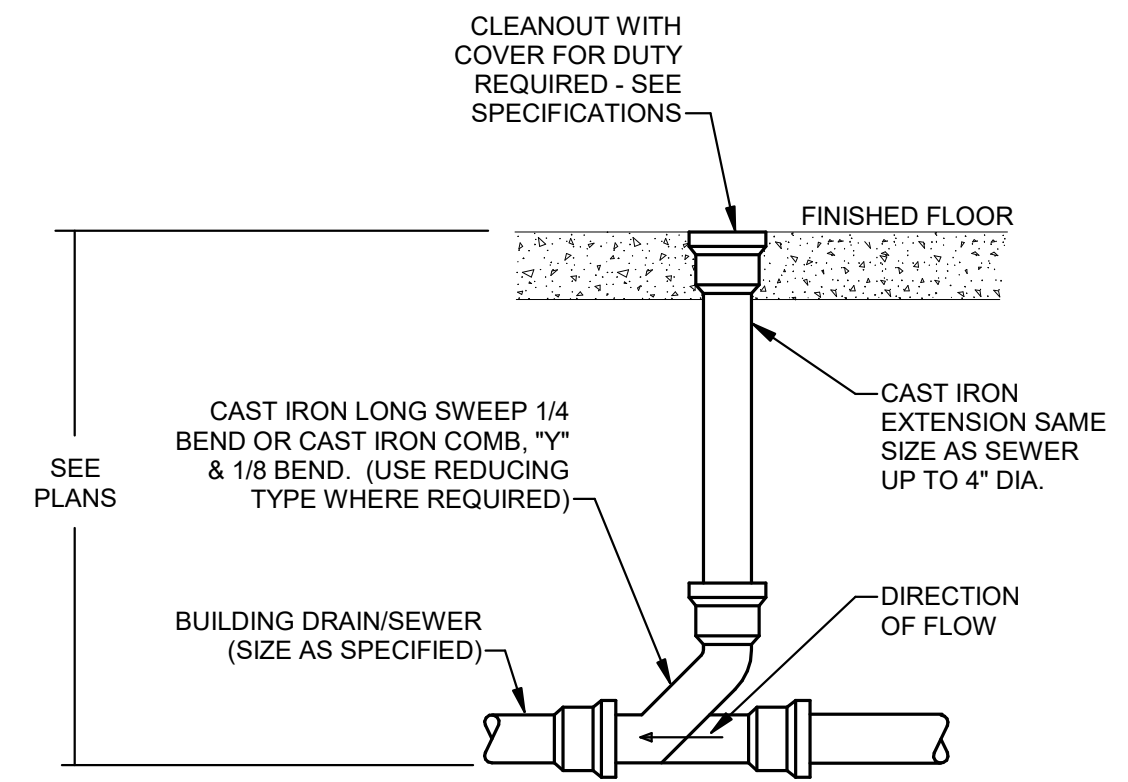


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 APPROVED: Admin



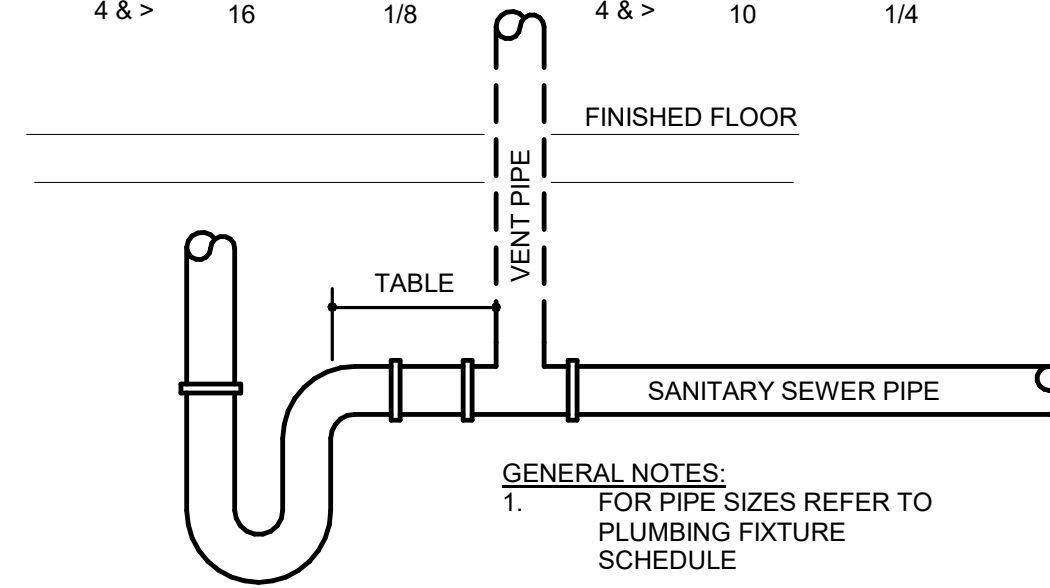
NOTE:
COORDINATE INSTALLATION
WITH DRAIN FITTINGS

1 SENSOR OPERATED FAUCET
NONE



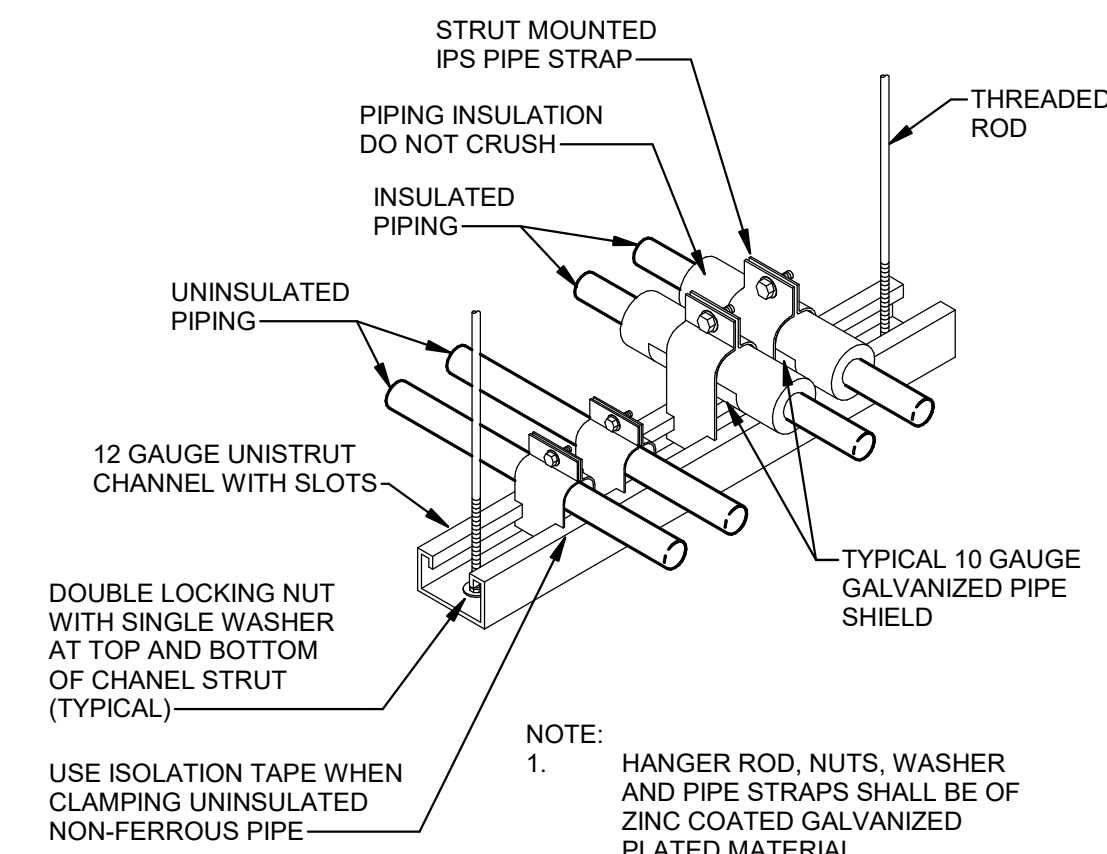
2 FLOOR CLEANOUT
NONE

TRAP ARM INCHES	IPC		UPC	
	MAXIMUM DISTANCE FEET	TRAP TO VENT SLOPE (IN./FT.)	MAXIMUM DISTANCE FEET	TRAP TO VENT SLOPE (IN./FT.)
1 1/4	5	1/4	1 1/4	2.5
1 1/2	6	1/4	1 1/2	3.5
2	8	1/4	2	5
3	12	1/8	3	6
4 & >	16	1/8	4 & >	10



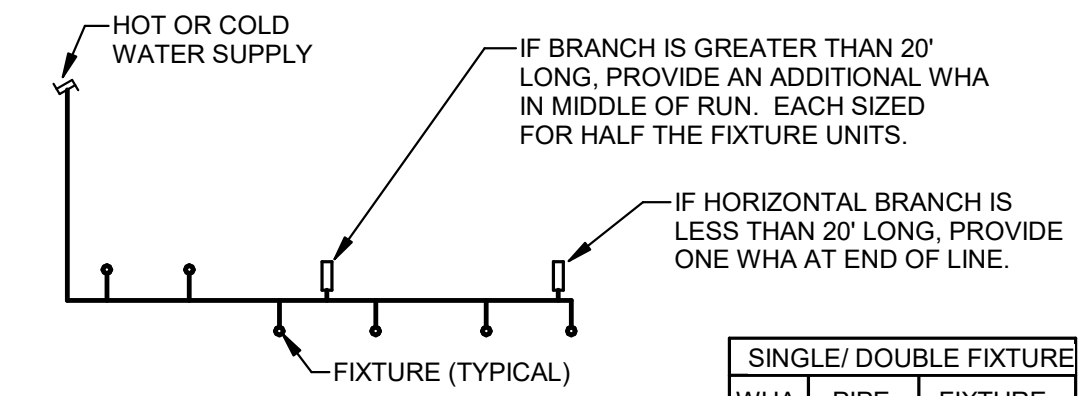
GENERAL NOTES:
1. FOR PIPE SIZES REFER TO PLUMBING FIXTURE SCHEDULE

3 TRAP TO VENT MAXIMUM DISTANCE
NONE



NOTE:
1. HANGER ROD, NUTS, WASHER AND PIPE STRAPS SHALL BE OF ZINC COATED GALVANIZED PLATED MATERIAL REFER TO SPECS FOR INSULATION.
2. USE ISOLATION TAPE WHEN CLAMPING UNINSULATED NON-FERROUS PIPE

4 TRAPEZE PIPE SUPPORT
NONE



NOTE: INSTALL PER MANUFACTURER'S INSTRUCTIONS. PROVIDE A WHA AT ALL QUICK-CLOSING VALVES.

WHA SIZE	PIPE SIZE	FIXTURE UNIT LOAD
A	1/2"	1-11
B	3/4"	12-32
C	1"	33-60
D	1 1/4"	61-113
E	1 1/2"	114-154
F	2"	154-330

5 WATER HAMMER ARRESTOR SCHEMATIC
NONE

PLUMBING FIXTURE SCHEDULE													
PLAN MARK	DESCRIPTION	MANUFACTURER	MODEL	TRIM	DRAIN / TRAP	SUPPLIES	CARRIER	SEAT	HOT WATER	COLD WATER	SANITARY / WASTE	VENT	NOTES
L-1	WALL HUNG LAVATORY	AMERICAN STANDARD	LUCERNE 0355.012	CHICAGO FAUCETS 118.606 AB. 1.0 GPM SENSOR FAUCET.	MCGUIRE 155WC GRID DRAIN/CHROME PLATED P-TRAP	CHICAGO FAUCET LOOSE KEY ANGLE STOPS AND RISERS	JAY R. SMITH	-	1/2"	1/2"	2"	2"	INSULATE SUPPLY AND WASTE PIPING WITH TRUBRO #102 WHITE INSULATION KIT WITH #105 OFFSET DRAIN INSULATION KIT. PROVIDE WITH ASSE 1070 THERMOSTATIC MIXING VALVE.
SK-1	SINGLE BOWL STAINLESS STEEL SINK	ELKAY	DLR191910PD	CHICAGO FAUCETS #201-AGNBAE36-317AB MANUAL GOOSENECK FAUCET. 1.5 GPM	GRID DRAIN/CHROME PLATED P-TRAP	CHICAGO FAUCET LOOSE KEY ANGLE STOPS AND RISERS	-	-	1/2"	1/2"	2"	2"	PROVIDE WITH ASSE 1070 THERMOSTATIC MIXING VALVE.
WC-1	FLOOR MOUNT FLOOR OULET WATER CLOSET	AMERICAN STANDARD	MADERA FLOWWISE #3461.001	SLOAN RYOAL 111 SFSM-1.6 SENSOR FLUSHMETER. 1.6 GPF	INTEGRAL	-	-	BEMS #2155SSC	-	1 1/4"	4"	2"	

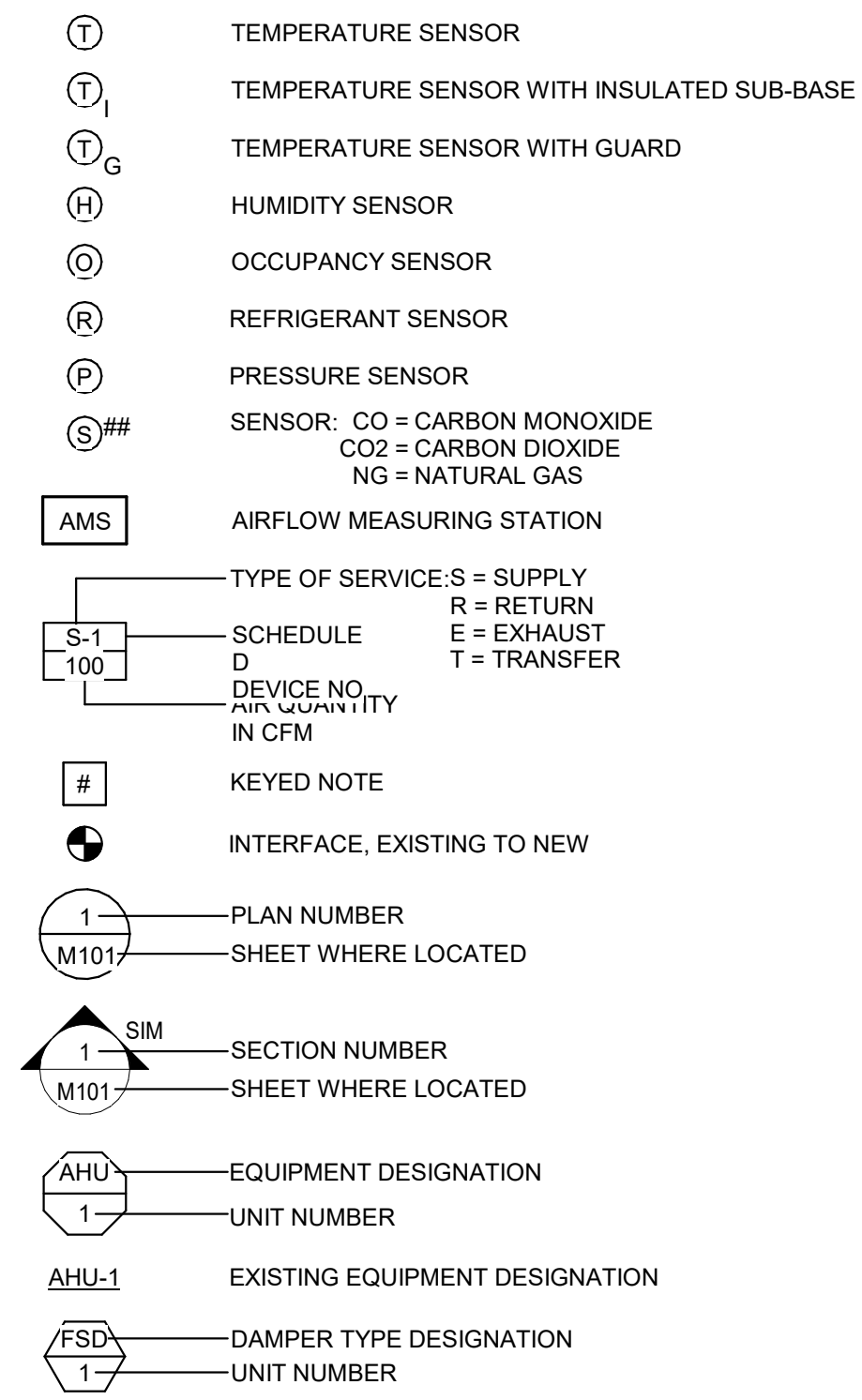
DRAIN SCHEDULE						
PLAN MARK	DESCRIPTION	MANUFACTURER	MODEL	BODY	STRAINER	NOTES
FD-1	ROUND FLOOR DRAIN	SIOUX CHIEF	832-35D-NR	CAST IRON	NICKEL BRONZE	

MARK	DATE	DESCRIPTION

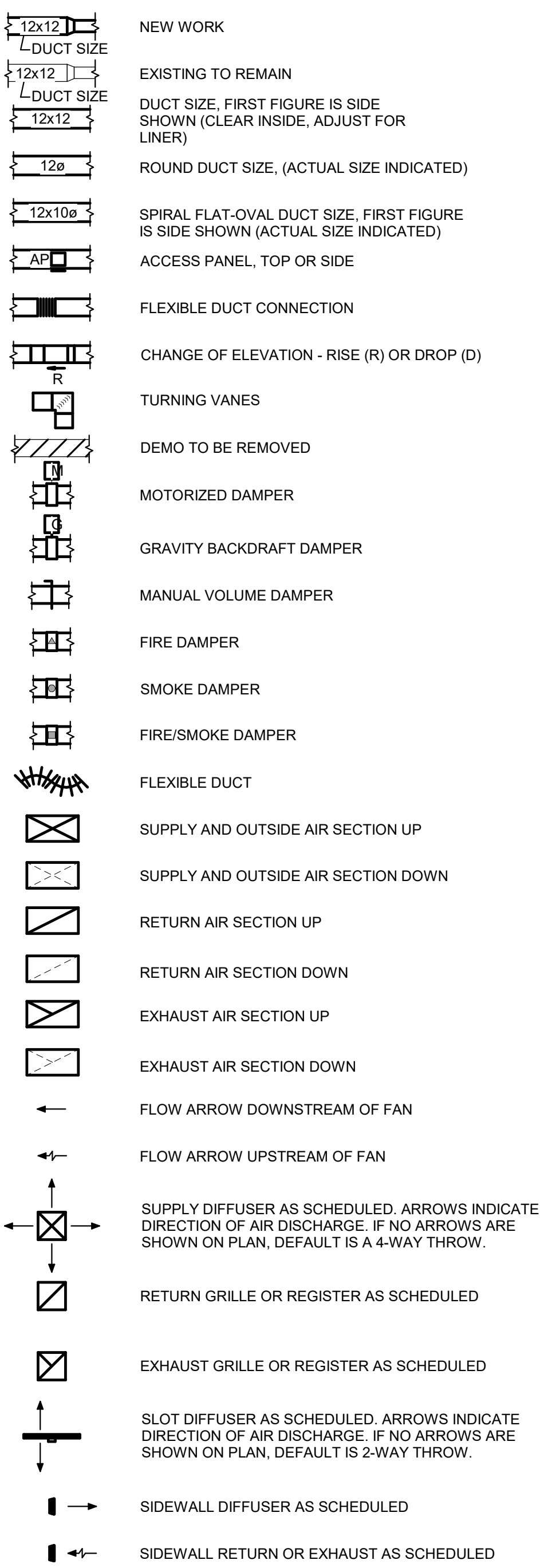
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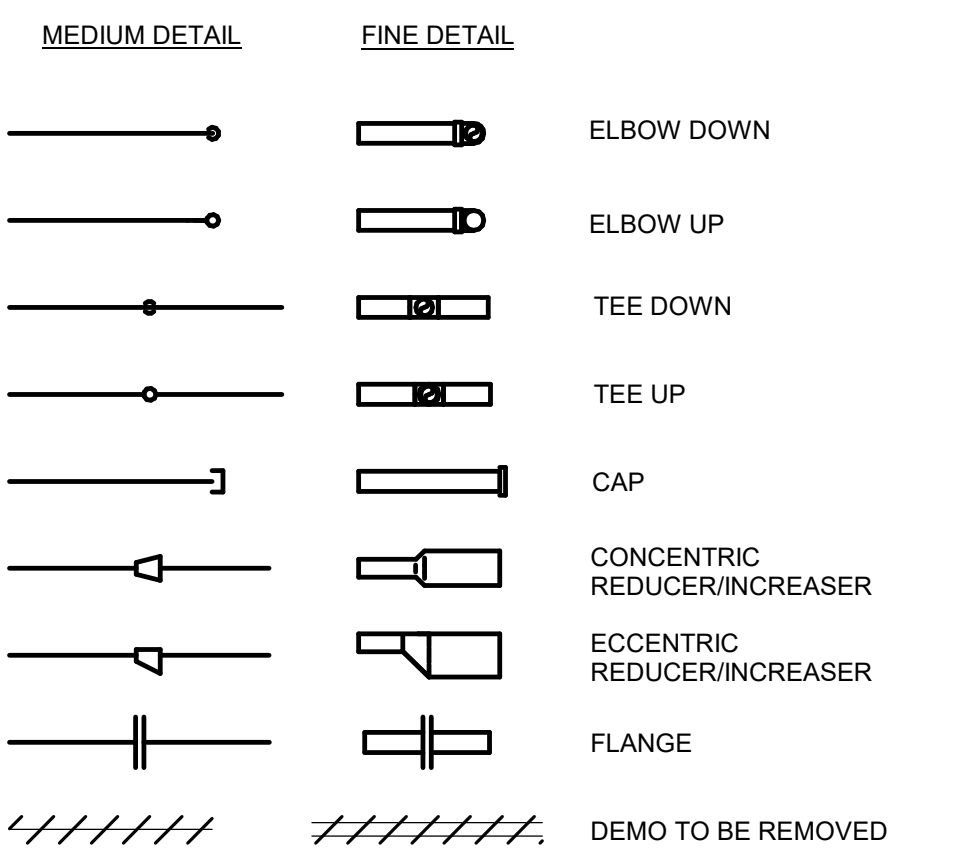
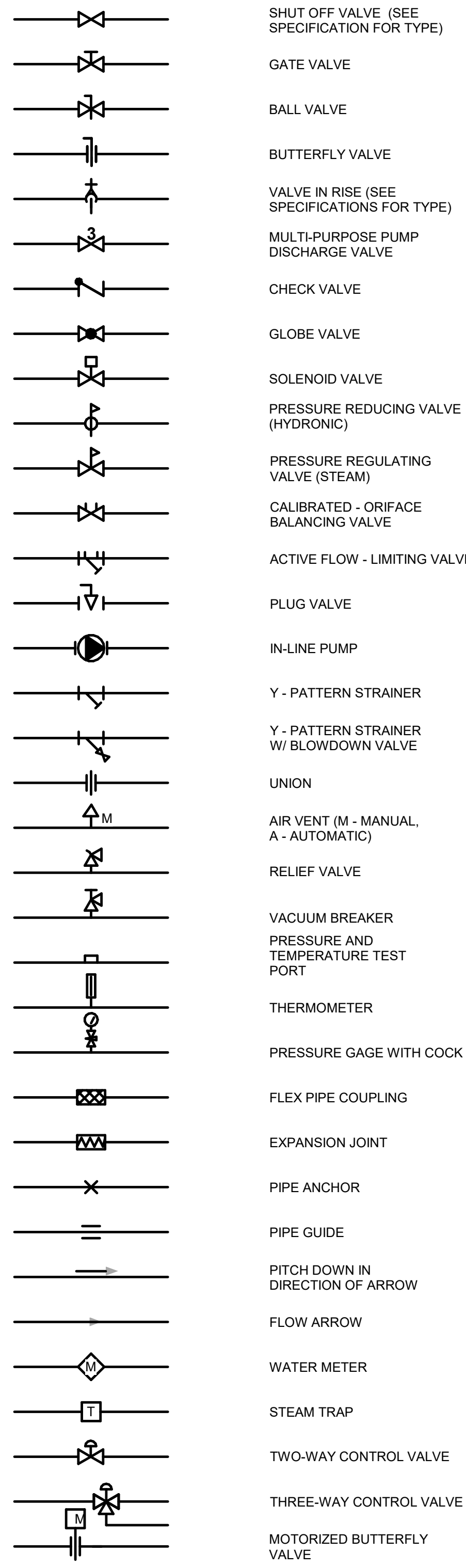
GENERAL SYMBOLS



DUCT SYSTEM SYMBOLS



PIPE LINE SYMBOLS



PIPE SYSTEM ABBREVIATIONS

Table of pipe system abbreviations including BD, CA, CD, CF, CHR, CHS, CR, CS, CW, CWR, CWS, D, E, FOF, FOR, FOS, FOV, G, GLR, GLS, HG, HPR, HPS, HW, HWR, HWS, LPG, LPR, LPS, MPR, MPS, MU, PC, PD, PCWR, PCWS, PHWR, PHWS, RL, RS, RV, SCWR, SCWS, SHWR, SHWS, SRV, V.

EQUIPMENT DESIGNATION

Table of equipment designations including AC, ACC, ACU, AF, AHU, AS, B, BCU, CAV, CB, CC, CFP, CH, CRAC, CRP, CSG, CUH, CUI, CVR, CWF, D, DCF, DPH, E, EF, ERU, EVC, F, FAV, FCU, FCM, FSD, FTR, FTU, GP, GV, H, HC, HEV, HPU, HRU, HWP, HX, L, MAU, MD, PAC, PCWP, PG, PHWP, PHX, PRV, R, RE, RHC, RP, RTU, SAT, SCWP, SD, SF, SHWP, ST, T, UH, VAV, WCC.

GENERAL ABBREVIATIONS

Table of general abbreviations including A, ACC, AD, AFF, AFS, AHRI, AI, AMB, AO, AP, APD, APLV, APPROX, ARCH, AUX, AV, AVG, BDD, BFC, BFP, BHP, BI, BMS, BO, BOB, BOD, BOP, BS, BTU, BTUH, BWE, CAP, CAV, CBM, CFM, CI, CLG, CO, COM, CONC, COND, CONN, CORR, CSG, D, DB, DBA, DEF, DEG, DES, DIA, DIM, DISCH, DIV, DN, DP, DPF, DPT, DTL, DWG(S), EA, EAT, EER, EFF, ELEC, ELEV, EQ, ESP, EWB, EWT, EXH, EXIST, EXT, F, FAT, FC, FD, FDC, FIN, FLR, FPF, FPM, FS, FT, FT-HD, GA, GAL, GALV, GC, GPH, GPM, H, HD, HEV, HORIZ, HP, HR, HTG, HVAC, HW, HZ, IB, IE, IN, INDIC.

GENERAL ABBREVIATIONS, CONTINUED

Continuation of general abbreviations including IPLV, ISP, JS, KW, L, LAT, LB(S), LF, LRA, LS, LVL, LW, LWL, MAN, MANU, MAX, MBH, MCA, MCC, MECH, MERV, MFR, MIN, MTD, MTL, MV, NC, NIC, NO, NOM, NPLV, NPSH, NTS, OA, OBD, OC, OD, OT, PA, PBD, PD, PENT, PH, PHC, PLB, PNEU, PPH, PRESS, PRV, PSI, PSIA, PSIG, QTY, RA, RAD, RAD, ROOF, REFR, REQ, RH, RLA, RM, RND, RPM, SA, SAN, SECN, SEER, SENS, SF, SH, SHT, SND, SOL, SP, SPD, SPT, SQ, SST, STL, STM, T&P, TC, TD, TDH, TEMP, TOT, TPD, TSP, TYP, UC, UG, UNO, V, VAC, VD, VEL, VERT, VFD, VOL, VTR, W, WIT, WO, WB, WC, WG, WPD, WT.

GENERAL NOTES:

- 1. THESE PLANS ARE DIAGRAMMATIC IN NATURE. THE CONTRACTOR SHALL BE PREPARED TO MAKE SOME ALTERATIONS TO THE EXACT LOCATION OF DUCTWORK, PIPING AND EQUIPMENT FROM THE LOCATION INDICATED ON THESE DRAWINGS TO FIT ACTUAL JOB CONDITIONS.
2. ALL ELBOWS, FITTINGS, ETC., IN PIPING AND DUCTWORK REQUIRED TO CLEAR ALL JOB OBSTRUCTIONS ARE NOT NECESSARILY INDICATED. ALL NECESSARY TRANSITIONS, FITTINGS AND OFFSETS ARE REQUIRED WHETHER SHOWN OR NOT.
3. BECAUSE OF THE LIMITED SPACE AVAILABLE TO INSTALL ALL OF THE MECHANICAL WORK COORDINATION BETWEEN THE VARIOUS TRADES IS OF THE UTMOST IMPORTANCE. SEE SPECIFICATION 230100 FOR REQUIRED COORDINATION DRAWINGS.
4. THE CONTRACTOR SHALL COORDINATE STAGING AND SCHEDULING WITH THE OWNER'S REPRESENTATIVE.
5. EXISTING CONDITIONS ARE BASED ON INFORMATION OBTAINED FROM PREVIOUS CONSTRUCTION DOCUMENTS AND INFORMAL FIELD OBSERVATION AND SHALL NOT BE CONSIDERED AS "AS BUILT." THE CONTRACTOR SHALL FIELD-VERIFY EXISTING CONDITIONS BEFORE THE ONSET OF CONSTRUCTION.
6. DEMOLISH ALL PIPING, DUCTWORK EQUIPMENT, ETC., SHOWN TO BE REMOVED, IN ITS ENTIRETY, INCLUDING ALL HANGERS AND SUPPORTS.
7. WHERE CONTRACTOR IS REQUIRED TO CONCEAL NEW WORK, REMOVE OR MODIFY EXISTING CONSTRUCTION OR EQUIPMENT, OR ATTACH TO EXISTING CONSTRUCTION, THE CONTRACTOR SHALL REPAIR OR REPLACE EXISTING CONSTRUCTION AND MATERIALS TO MATCH CONDITIONS AT THE ONSET OF CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE AND REPLACE EXISTING CEILING AND WALLS REQUIRED FOR INSTALLATION OF MECHANICAL SYSTEMS.
8. THE OWNER SHALL MAINTAIN ALL SALVAGE RIGHTS OF EQUIPMENT AND MATERIALS REMOVED. ALL EQUIPMENT AND MATERIALS NOT CLAIMED BY THE OWNER SHALL BE REMOVED FROM THE PREMISES BY THIS CONTRACTOR.
9. CONTRACTOR SHALL PROVIDE SEISMIC BRACING AND MOUNTING OF EQUIPMENT AND MATERIALS IN COMPLIANCE WITH ALL LOCAL CODE REQUIREMENTS AND THE REQUIREMENTS OF SPECIFICATION SECTION 208000 SEISMIC PROTECTION.
10. ALL WORK SHALL BE INSTALLED PER THE REFERENCE DETAILS, REGARDLESS OF WHETHER OR NOT THE DETAILS ARE CALLED OUT ON THE PLANS. SEE SHEET M500.
11. PROVIDE VENTS AT ALL HYDRONIC PIPING HIGH POINTS, AND DRAINS AT ALL PIPING LOW POINTS, REGARDLESS OF WHETHER SHOWN OR NOT.
12. DO NOT SCALE THE LOCATION OF HVAC CEILING ELEMENTS, SUCH AS AIR INLETS AND OUTLETS, FROM THE M-SERIES DRAWINGS. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT HVAC CEILING ELEMENT LOCATIONS. REFLECTED CEILING PLANS GOVERN THE LOCATION OF DIFFUSERS, REGISTERS, AND GRILLES. M-SERIES DRAWINGS GOVERN TYPE, STYLE, AND SIZE OF DIFFUSERS, REGISTERS, AND GRILLES.
13. ALL DUCTWORK SHALL COMPLY WITH "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE," 3RD EDITION, SMACNA 2008, EXCEPT WHERE MORE RESTRICTIVE REQUIREMENTS ARE SPECIFIED. ANY PLAN REFERENCES TO "SMACNA FIGURE --" REFERS TO THIS STANDARD. SEE SPECIFICATIONS FOR SCHEDULE OF DUCT PRESSURE CLASS AND SEAL CLASS.
14. IN GENERAL, THE FINAL FLEX DUCT RUNOUT TO EACH DIFFUSER, REGISTER OR GRILLE IS NOT SIZED ON PLANS. FLEX DUCT RUNOUT SIZE SHALL MATCH AIR OUTLET NECK SIZE, UNO.
15. IT IS THE INTENT OF THESE DRAWINGS THAT A MANUAL BALANCING DAMPER BE PROVIDED AT EVERY INDIVIDUAL DUCTED CONNECTION TO AN AIR DEVICE, UNLESS A BALANCING DAMPER IS SCHEDULED TO BE FURNISHED WITH AIR DEVICE. VAV BOXES WITH SINGLE DIFFUSERS ARE NOT REQUIRED TO HAVE A BALANCING DAMPER.
16. THE CONTRACTOR SHALL CONNECT THE NEW HVAC SYSTEM TO THE OWNER'S EXISTING BUILDING CONTROL SYSTEM. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.



BSA LifeStructures
12645 Olive Blvd, Suite 227
Creve Coeur, MO 63141
ph 314.754.6306 fx 314.754.4452

Architectural Registration Number - 2003010309



MEP ENGINEERING:
Ross & Baruzzini
6 S Old Orchard Ave
St. Louis, MO 63119
ph 314.918.8383 www.rossbar.com
Missouri State Certificate of Authority #0001408



LIGHTING ENGINEERING:
Timberlake Engineering
912 Old Highway 63 South
Columbia, MO 65201
ph 573.875.4365 ext 209 www.customenergy.com
Missouri State Certificate of Authority #000239



MU PROJECT NO. - CP221944

UPMB 4th FLOOR MOA CLINIC RENOVATION

1020 Hitt St, Columbia, MO 65212

Table with columns MARK, DATE, DESCRIPTION

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MECHANICAL SYMBOLS & ABBREVIATIONS

Table with columns DATE, BSALS PROJECT NO., 3 OCTOBER, 2022, 14110005



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BSA 360-1410005 - UPMB Renovation 011413.000-MUIC UPMB 4th Floor Renovation-F21_jeanbell@ptd.net

EXISTING AHU DESCRIPTION AND COMPONENTS

The existing HVAC system is set up for a standard medical office building. Variable airflow air handling units are located in the basement mechanical room within the building. AHU-1 feeds the west half of the building and AHU-2 feeds the east half of the building. Both units are essentially identical. The air handling units consist of the following components:

- Remote Return Fan - Suspended within the mechanical room (40,000 CFM, 3" TSP, 40HP, 480V/3ph)
- Mixing Section
- Air Blender
- Pre-Filter (MERV 8)
- Supply Fan (45,000 CFM, 9" TSP, 100 HP, 480V/3ph)
- Blow Through Cooling Coil - Campus Chilled Water (1512 MBH, 250 GPM, 18 ft. head pressure.)
- Discharge Section
- Remote, duct mounted, steam dispersion humidifier

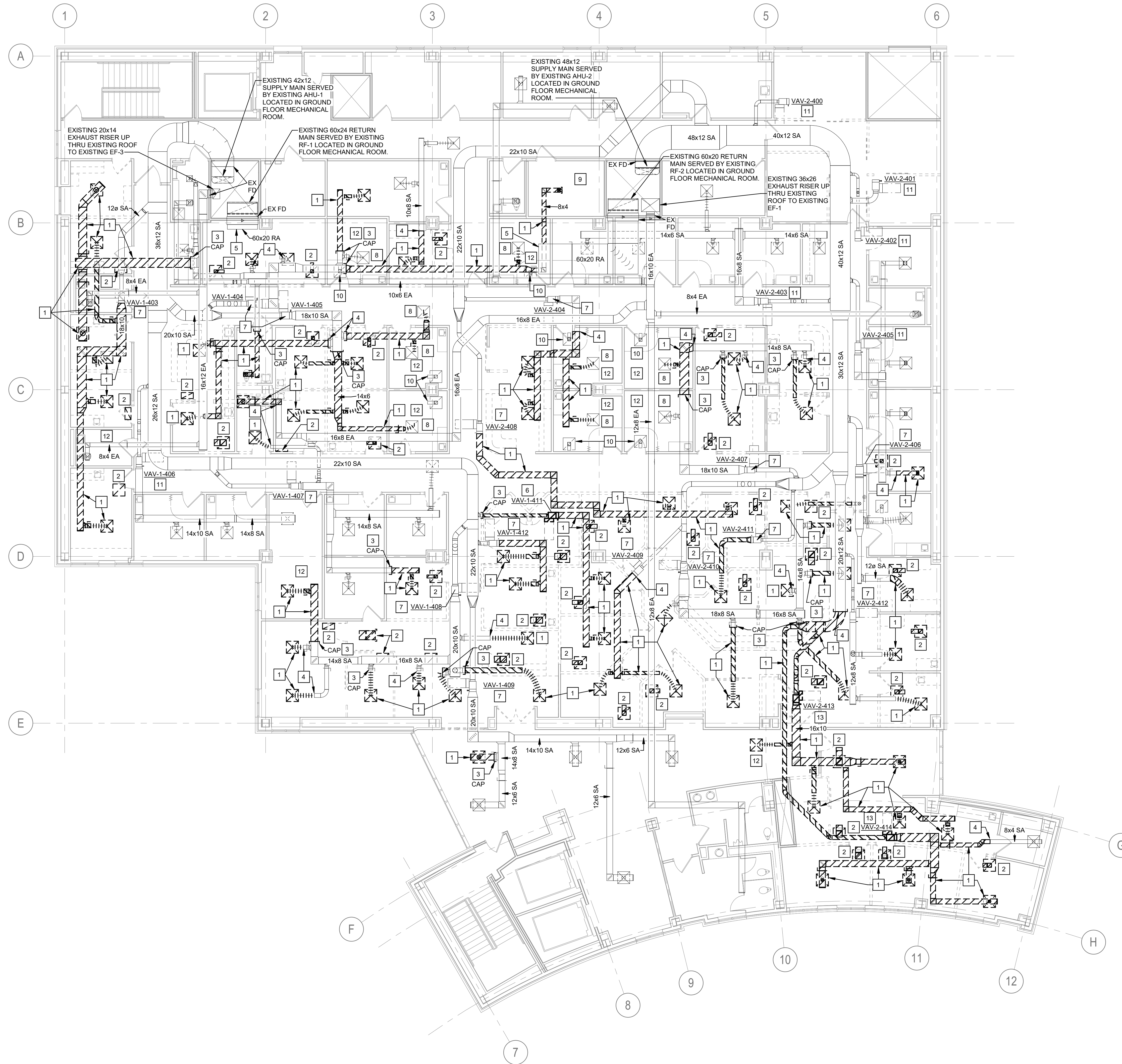
Supply air is ducted from the air handling unit and is distributed to multiple spaces on multiple floors. VAV boxes with hot water reheat coils modulate airflow to each zone and provide heating at the zone level for temperature control. All air that is not exhausted is returned back to the main unit through the ceiling return air plenum.

GENERAL NOTES

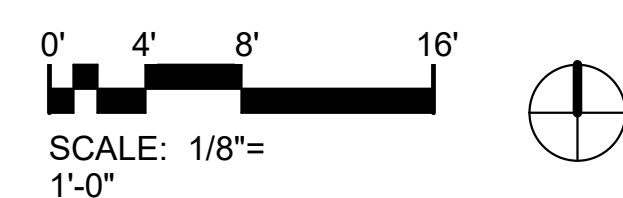
- REFER TO SHEET M000 FOR GENERAL NOTES.

KEYED NOTES

- REMOVE EXISTING AIR DEVICES AND DUCTWORK TO POINT SHOWN.
- REMOVE EXISTING NON-DUCTED RETURN GRILLE AND ASSOCIATED RETURN AIR BOOT IF APPLICABLE.
- CAP EXISTING DUCTWORK AIRTIGHT WITH SHEETMETAL INSULATE CAP WITH 1-1/2" THICK FOIL FACED DUCT WRAP INSULATION IF DUCT IS SUPPLY DUCT.
- PROVIDE TEMPORARY CAP IN EXISTING DUCTWORK UNTIL NEW DUCTWORK IS INSTALLED. EXISTING SYSTEM SERVES MULTIPLE FLOORS AND MUST REMAIN OPERATIONAL AT ALL TIMES.
- EXISTING OPEN-ENDED RETURN AIR DUCT ABOVE CEILING.
- EXISTING AIR TERMINAL UNIT VAV-1-411 WITH HOT WATER REHEAT COIL TO BE RELOCATED AND REUSED. REFER TO SHEET M101 FOR NEW WORK. EXISTING CONTROL WIRES SHALL BE RE-PULLED NOT SPLICED. REFER TO SHEET MD201 FOR PIPING DEMOLITION RELATED TO AIR TERMINAL UNIT.
- ENGAGE OWNER'S REPRESENTATIVE TO CONTACT UNIVERSITY OF MISSOURI HOSPITAL CONTROL SHOP TO CLOSE AIR TERMINAL UNIT DAMPER PRIOR TO STARTING DEMOLITION WORK. EXISTING SYSTEM SERVES MULTIPLE FLOORS AND MUST REMAIN OPERATIONAL AT ALL TIMES.
- EXISTING AIR DEVICE TO REMAIN AND BE RE-USED. REFER TO SHEET M101 FOR NEW WORK ASSOCIATED WITH EXISTING AIR DEVICE. REMOVE EXISTING FLEXIBLE DUCT AND PROVIDE NEW IF EXISTING IS SHOWN TO BE REMOVED.
- CONTRACTOR TO PROVIDE TEMPORARY COOLING FOR EXISTING ROOM ELEC - 4208. COORDINATE WITH OWNER'S REPRESENTATIVE TO DETERMINE COOLING NEEDS.
- EXISTING NON-DUCTED RETURN AIR DEVICE TO REMAIN.
- NO WORK REQUIRED FOR EXISTING AIR TERMINAL UNIT.
- REFER TO ARCHITECTURAL AND ELECTRICAL DRAWINGS FOR TEMPORARY REMOVAL AND REPLACEMENT OF EXISTING CEILING AND LIGHTS FOR MECHANICAL WORK SHOWN TO BE REMOVED ABOVE EXISTING CEILING THAT ARE TO REMAIN. COORDINATE SCHEDULING OF WORK WITH OWNER'S REPRESENTATIVE.
- REMOVE EXISTING AIR TERMINAL UNIT WITH HOT WATER REHEAT COIL AND TURN OVER TO OWNER. REFER TO SHEET MD201 FOR PIPING DEMOLITION RELATED TO AIR TERMINAL UNIT.



1 MECHANICAL - FOURTH FLOOR DUCTWORK - DEMOLITION
1/8" = 1'-0"



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MECHANICAL FOURTH FLOOR DUCTWORK PLAN - DEMOLITION

DATE: 3 OCTOBER, 2022
BSALS PROJECT NO. 14110005

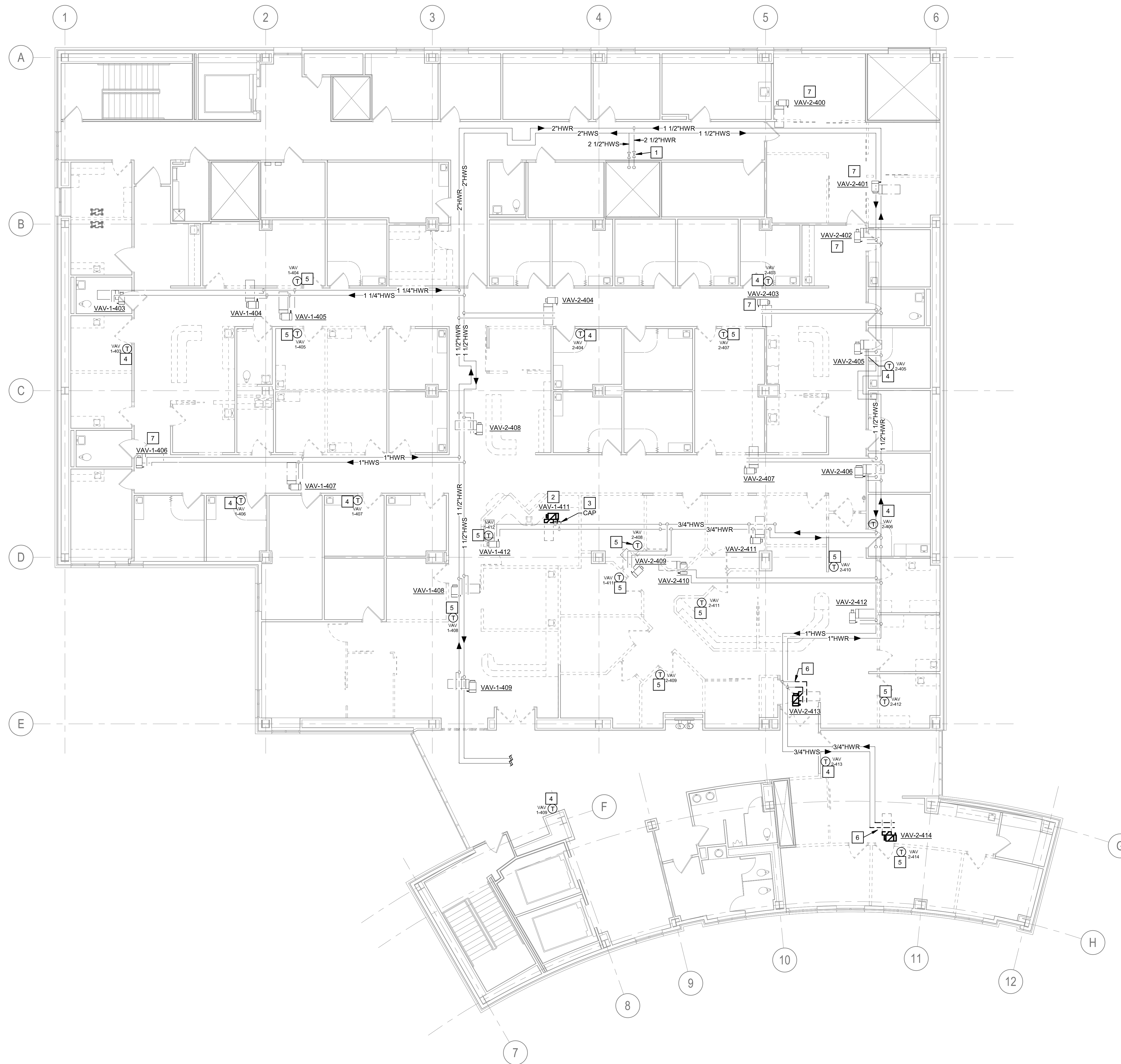
MD101

GENERAL NOTES

A. REFER TO SHEET M000 FOR GENERAL NOTES.

KEYED NOTES

- CLOSE EXISTING SHUT-OFF VALVES PRIOR TO STARTING ANY DEMOLITION. EXISTING VALVES SERVE ALL AIR TERMINAL UNITS ON FOURTH FLOOR. COORDINATE REQUIRED SHUT-DOWN WITH OWNER'S REPRESENTATIVE. SEVERAL SHUTDOWNS MAY BE REQUIRED.
- EXISTING AIR TERMINAL UNIT VAV-1-411 TO BE RELOCATED AND RE-USED. EXISTING VAV DDC CONTROLLER TO BE SALVAGED AND BE RE-USED FOR EXISTING VAV BOX AT NEW LOCATION. THE EXISTING FC BUS SHALL REMAIN INTACT DURING CONSTRUCTION AND ANY EXISTING CONTROL WIRES THAT ARE TOO SHORT SHALL BE RE-PULLED, NOT SPLICED. REFER TO SHEET M201 FOR NEW WORK.
- REMOVE EXISTING HEATING HOT WATER SUPPLY AND HEATING HOT WATER RETURN BRANCH PIPING. 2-WAY CONTROL VALVE AND PIPING ACCESSORIES BACK TO EXISTING REHEAT COIL SHUT-OFF VALVES AND CAP. CLOSE EXISTING VALVES BEFORE STARTING DEMOLITION. EXISTING CONTROL VALVE TO BE RE-USED. REFER TO SHEET M201 FOR NEW WORK.
- EXISTING WALL MOUNTED DDC THERMOSTAT TO REMAIN.
- EXISTING WALL MOUNTED DDC THERMOSTAT TO BE REMOVED AND RELOCATED. CONTACT OWNER BEFORE DEMOLITION BEGINS. EXISTING THERMOSTATS TO BE REMOVED BY OWNER. FC BUS SHALL REMAIN INTACT DURING CONSTRUCTION AND ANY EXISTING CONTROL WIRES THAT ARE TOO SHORT SHALL BE RE-PULLED, NOT SPLICED. REFER TO SHEET M201 FOR NEW WORK ASSOCIATED WITH EXISTING DDC THERMOSTAT. PATCH EXISTING WALL IF EXISTING THERMOSTAT IS REMOVED FROM AN EXISTING WALL THAT IS TO REMAIN.
- CLOSE EXISTING BRANCH SHUT-OFF VALVES SERVING AIR TERMINAL UNIT AND REMOVE EXISTING BRANCH PIPING FROM CONNECTION POINT OF REHEAT COIL TO POINT EXISTING PIPING CAN BE EXTENDED TO NEW AIR TERMINAL UNIT REHEAT COIL. EXISTING 2-WAY CONTROL VALVE AND PIPE ACCESSORIES TO REMAIN. REFER TO SHEET M201 FOR NEW WORK.
- NO WORK REQUIRED FOR EXISTING AIR TERMINAL UNIT.

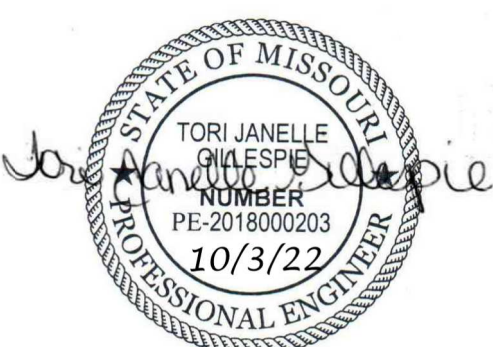


1 MECHANICAL - FOURTH FLOOR PIPING - DEMOLITION
1/8" = 1'-0"



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MECHANICAL FOURTH FLOOR PIPING PLAN - DEMOLITION

DATE 3 OCTOBER, 2022
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MD201

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MECHANICAL FOURTH FLOOR DUCTWORK PLAN - NEW WORK

DATE: 3 OCTOBER, 2022
BSALS PROJECT NO.: 14110005

EXISTING AHU DESCRIPTION AND COMPONENTS

The existing HVAC system is set up for a standard medical office building. Variable airflow air handling units are located in the basement mechanical room within the building. AHU-1 feeds the west half of the building and AHU-2 feeds the east half of the building. Both units are essentially identical. The air handling units consist of the following components:

- Remote Return Fan - Suspended within the mechanical room (40,000 CFM, 3" TSP, 40HP, 480V/3ph)
- Mixing Section
- Air Blender
- Pre-Filter (MERV 8)
- Supply Fan (45,000 CFM, 9" TSP, 100 HP, 480V/3ph)
- Blow Through Cooling Coil - Campus Chilled Water (1512 MBH, 250 GPM, 18 ft. head pressure.)
- Discharge Section
- Remote, duct mounted, steam dispersion humidifier

Supply air is ducted from the air handling unit and is distributed to multiple spaces on multiple floors. VAV boxes with hot water reheat coils modulate airflow to each zone and provide heating at the zone level for temperature control. All air that is not exhausted is returned back to the main unit through the ceiling return air plenum.

GENERAL NOTES

- REFER TO SHEET M000 FOR GENERAL NOTES.
- REFER TO AIR TERMINAL UNIT SCHEDULE ON SHEET M500 FOR INLET SIZE OF AIR TERMINAL UNITS.

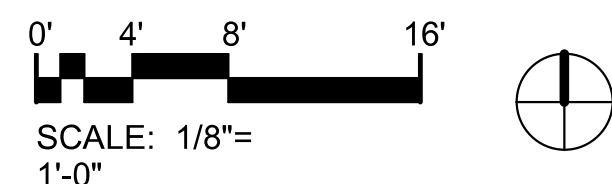
KEYED NOTES

- REBALANCE EXISTING AIR DEVICE TO CFM NOTED ON PLANS.
- INSTALL NEW MANUAL BALANCING DAMPER TO EXISTING 16x12 EXHAUST MAIN FOR FUTURE FLOOR BALANCING. VERIFY EXISTING DUCT SIZE IN FIELD PRIOR TO ORDERING.
- EXISTING VAV DDC POWER SUPPLY UNIT ON WALL TO REMAIN.
- CONNECT NEW FLEXIBLE BRANCH DUCT TO EXISTING SUPPLY AIR DEVICE. PROVIDE TRANSITION TO EXISTING AIR DEVICE NECK SIZE AS REQUIRED.
- EXISTING NON-DUCTED RETURN AIR DEVICE TO REMAIN.
- CONNECT NEW SUPPLY DUCT TO EXISTING. PROVIDE TRANSITION AS REQUIRED. PROVIDE PROPER VAPOR BARRIER WHERE NEW DUCT WRAP INSULATION BUTTS EXISTING INSULATION.
- NEW LOCATION OF EXISTING AIR TERMINAL UNIT VAV 1-411.
- NO WORK REQUIRED FOR EXISTING AIR TERMINAL UNIT.
- REFER TO ARCHITECTURAL AND ELECTRICAL DRAWINGS FOR TEMPORARY REMOVAL AND REPLACEMENT OF EXISTING CEILING AND LIGHTS FOR MECHANICAL WORK SHOWN TO BE INSTALLED ABOVE EXISTING CEILING THAT ARE TO REMAIN. COORDINATE SCHEDULING OF WORK WITH OWNER'S REPRESENTATIVE.



1 MECHANICAL - FOURTH FLOOR DUCTWORK - NEW WORK

1/8" = 1'-0"



GENERAL NOTES

- A. REFER TO SHEET M000 FOR GENERAL NOTES.
- B. PIPE BRANCH RUNOUT SIZE TO AIR TERMINAL UNIT REHEAT COIL SHALL BE 3/4" UNLESS NOTED OTHERWISE.

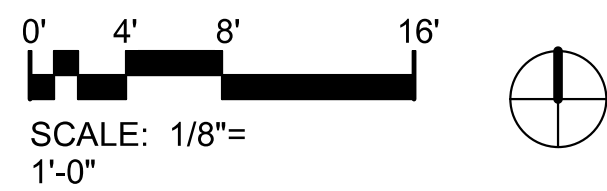
KEYED NOTES

1. OPEN EXISTING SHUT-OFF VALVES AFTER ALL PIPING WORK IN ANY SCHEDULED SHUTDOWN HAS BEEN COMPLETED AND PRESSURE TESTED. COORDINATE WITH OWNERS REPRESENTATIVE. VALVES SHUTDOWN ENTIRE FOURTH FLOOR. SEVERAL SHUTDOWNS MAY BE REQUIRED.
2. NEW LOCATION OF EXISTING AIR TERMINAL UNIT VAV-1-411. PROVIDE NEW PIPING ACCESSORIES. EXISTING 2-WAY CONTROL VALVE TO BE RE-USED PER KEYED NOTE 3 ON SHEET MD201.
3. NEW LOCATION OF EXISTING DDC THERMOSTAT. CONNECT TO EXISTING ASSOCIATED VAV BOX SHOWN ON PLANS. IF EXISTING CONTROL WIRING IS NOT LONG ENOUGH, PROVIDE NEW. SPlicing OF CONTROL WIRING IS PROHIBITED. PATCH WALL TO MATCH EXISTING FINISH IF THERMOSTAT IS TO BE INSTALLED ON AN EXISTING WALL.
4. EXISTING DDC THERMOSTAT TO REMAIN.
5. INSTALL NEW OWNER FURNISHED WALL MOUNTED DDC THERMOSTAT ON WALL. PATCH WALL TO MATCH EXISTING FINISH IF THERMOSTAT IS TO BE INSTALLED ON AN EXISTING WALL. INSTALL AN ADHESIVE LABEL ON THERMOSTAT WITH CORRESPONDING AIR TERMINAL UNIT TAG AND AIR TERMINAL UNIT LOCATION FROM THERMOSTAT. LETTERS SHALL BE MINIMUM 1/8" HIGH. COORDINATE LABEL TYPE AND LETTERING HEIGHT WITH OWNERS REPRESENTATIVE.
6. INSTALL A 1/2" WIDE ENGRAVED PHENOLIC PLASTIC ADHESIVE LABEL ON THE I-V-IN CEILING GRID TO IDENTIFY AIR TERMINAL UNIT LOCATION AND CEILING TILE TO BE USED TO ACCESS AIR TERMINAL UNIT. LABEL SHALL HAVE A WHITE BACKGROUND WITH 3/8" HIGH BLACK LETTERS. ENGAGE OWNER'S REPRESENTATIVE FOR VERIFICATION OF CEILING TILE TO BE USED FOR ACCESS PRIOR TO INSTALLING LABEL.
7. EXISTING VAV DDC POWER SUPPLY UNITS ON WALL.
8. CONNECT NEW HEATING HOT WATER BRANCH PIPING TO EXISTING MAINS. REFER TO KEYED NOTE 1 ON THIS SHEET FOR MAIN SHUT-OFF VALVES.
9. CONNECT TO EXISTING BRANCH PIPING DOWNSTREAM OF EXISTING 2-WAY CONTROL VALVE AND PIPE ACCESSORIES AND EXTEND TO NEW AIR TERMINAL UNIT REHEAT COIL. REFER TO KEYED NOTE 6 ON SHEET M201.
10. NO WORK REQUIRED FOR EXISTING AIR TERMINAL UNIT.



1 MECHANICAL - FOURTH FLOOR PIPING - NEW WORK

1/8" = 1'-0"



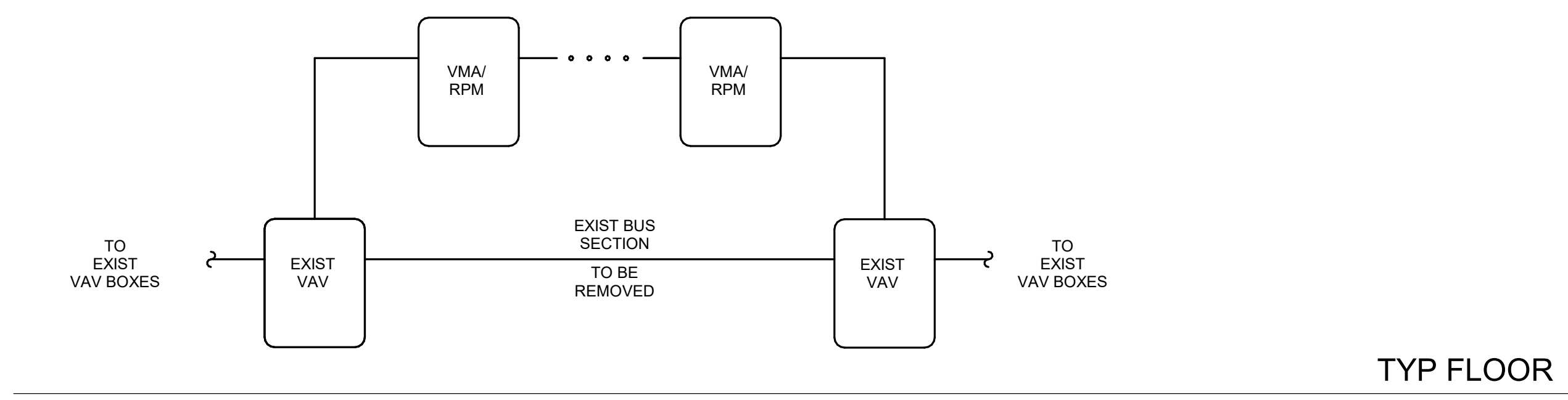
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MECHANICAL FOURTH FLOOR PIPING PLAN - NEW WORK

DATE: 3 OCTOBER, 2022
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NOTES:

1. FC BUS TO BE CONTINUOUS DAISY CHAIN WITHOUT SPLICES. CONNECTIONS CAN ONLY BE MADE AT CONTROLLERS. SEE PLANS FOR QUANTITY AND LOCATIONS OF VMA CONTROLLERS.
2. BREAK BUS BETWEEN TWO EXISTING CONNECTED VAV CONTROLLERS AND REROUTE AS SHOWN. BUS CAN BE REROUTED IN MULTIPLE LOCATIONS TO KEEP OVERALL BUS LENGTH SHORT. COORDINATE FC BUS ROUTING AND OUTAGES WITH OWNERS REP.
3. FC COMMUNICATION BUS WIRE SHALL BE 22 AWG, PLENUM RATED, TWISTED SHIELDED, 3 CONDUCTOR, WITH BLUE OUTER CASING, DESCRIBED AS 22-03 OAS STR PLNM NEON BLU JK DISTRIBUTED BY WINDY CITY WIRE, CONSTRUCTED BY CABLE-TEK, OR APPROVED EQUIVALENT.

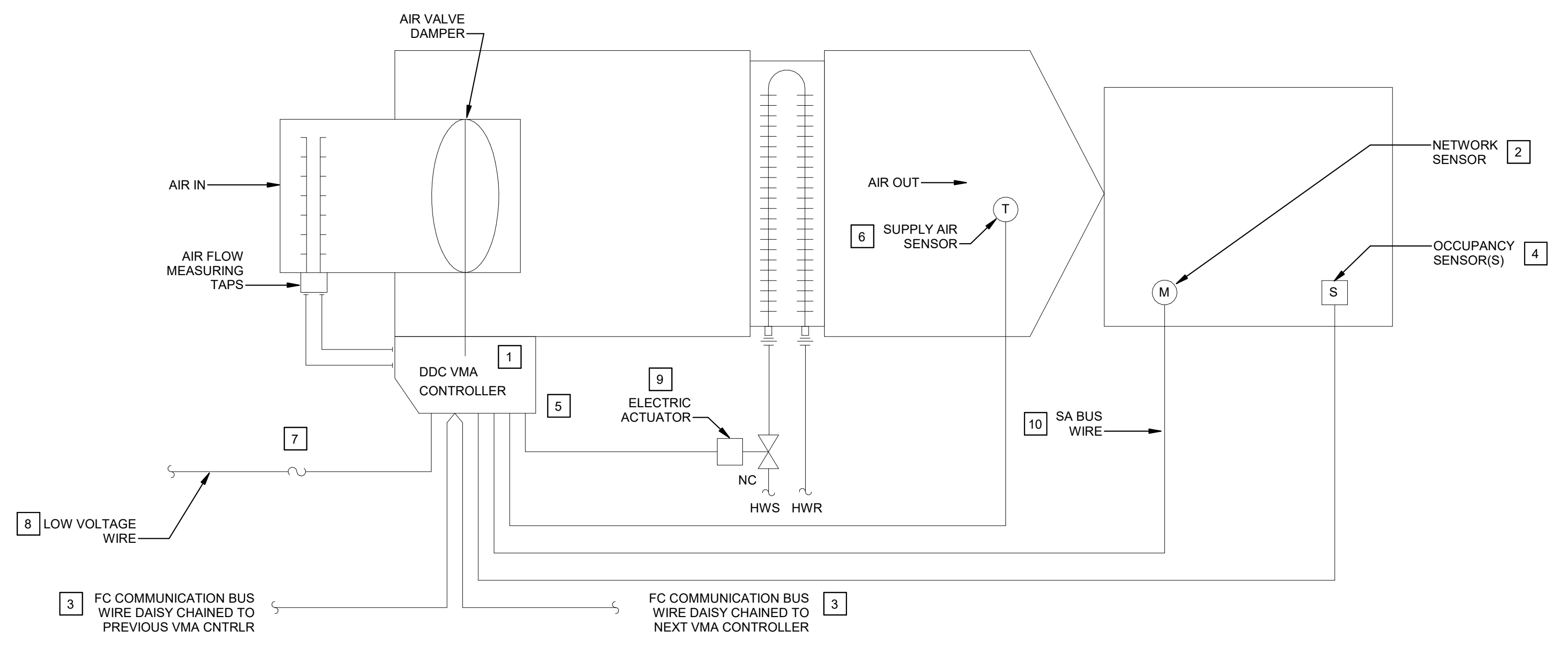
B FC BUS SCHEMATIC DIAGRAM
NO SCALE

TEMPERATURE CONTROLS GENERAL NOTES

THE CONTRACTOR SHALL SUBMIT ENGINEERED CONTROL DRAWINGS, WIRING DIAGRAMS EQUIPMENT SCHEDULES, ETC., AS REQUIRED FOR A COMPLETE CONTROL SYSTEM. THE CONTRACTOR WILL BE EXPECTED TO WORK OUT THE DETAILS OF NORMALLY OPEN/NORMALLY CLOSED CONNECTIONS, EXACT EQUIPMENT REQUIREMENTS, ETC., TO PROVIDE A WORKING CONTROL SYSTEM.

CONTRACTOR SHALL PROVIDE AS-BUILT DIAGRAM OF NETWORK BUS ROUTING PER SPEC SECTION 23 0900.

THE UNIVERSITY OF MISSOURI - COLUMBIA UTILIZES JOHNSON CONTROLS EQUIPMENT FOR THEIR CAMPUS ENERGY MANAGEMENT CONTROL SYSTEM (EMCS). NEW DDC CONTROL SYSTEM SHALL FULLY INTERFACE WITH THE CAMPUS JOHNSON CONTROLS METASYS SYSTEM.



A VAV BOX CONTROL DIAGRAM WITH REHEAT

NOTES:

1. VMA TERMINAL INCLUDES CONSTANT VOLUME (CV) UNITS & VARIABLE AIR VOLUME (VAV) UNITS. UNLESS OTHERWISE NOTED, ALL CONTROL WORK SHALL BE BY CONTRACTOR.
2. CAPS FOR VAV DP TEST PORTS MUST BE 1/4" BRASS PLUGS.

KEYED NOTES:

1. CONTROLLER WILL BE FURNISHED BY OWNER, INSTALLED BY CONTRACTOR. CONTROLLER WILL BE JCI MODEL MS-VMA-16XX SERIES. PROGRAMMING WILL BE DONE BY OWNER.
2. NETWORK SENSOR WILL BE FURNISHED BY OWNER & INSTALLED BY CONTRACTOR. NETWORK SENSOR WILL BE JCI NS SERIES.
3. FC COMMUNICATION BUS WIRE SHALL BE 22 AWG, PLENUM RATED, TWISTED SHIELDED, 3 CONDUCTOR, WITH BLUE OUTER CASING, DESCRIBED AS 22-03 OAS STR PLNM NEON BLU JK DISTRIBUTED BY WINDY CITY WIRE CONSTRUCTED BY CABLE-TEK, OR APPROVED EQUIVALENT.
4. INSTALLATION OF OCC SENSOR IS WORK OF DIVISION 26. SEE E-SERIES SHEETS FOR FINAL LOCATIONS. A CONTROL CIRCUIT SHALL BE CONNECTED TO ALL OCC SENSORS AS WORK OF DIVISION 23. A CONTROL SIGNAL SHALL BE RELAYED TO THE VAV TERMINAL UNIT THAT SERVES THAT SPACE. IN LOCATIONS WHERE MULTIPLE OCC SENSORS ARE PRESENT, ALL SENSORS SHALL BE MONITORED AND TRANSMIT A SIGNAL TO THE VAV TERMINAL UNIT WITHIN THAT SPACE. ALL SENSORS SHALL BE WIRED IN PARALLEL.
5. CONTROLLER MUST HAVE A MINIMUM OF 18 INCHES OF ACCESSIBLE CLEARANCE.
6. VAV SUPPLY TEMP SENSOR 1000 OHM PLATINUM RTD LOCATED APPROX. 8 FT. FROM VAV BOX DISCHARGE. PROVIDED, INSTALLED, & WIRED TO CONTROLLER BY CONTRACTOR.
7. FUSE LOCATED WITHIN 2 FT. OF VMA CONTROLLER.
8. LOW VOLTAGE WIRE BY DIVISION 23. SEE ELECTRICAL DRAWINGS FOR SOURCE.
9. VALVE WITH PROPORTIONAL 0-10 VOLT ACTUATOR OR EQUIVALENT.
10. SA BUS WIRE SHALL BE 22 AWG, PLENUM RATED, TWISTED SHIELDED, 4 CONDUCTOR.

BSA
BSA LifeStructures
12645 Olive Blvd, Suite 227
Creve Coeur, MO 63141
ph 314.754.6306 fx 314.754.4452
Architectural Registration Number - 2003010309

Ross & Baruzzini
MEP ENGINEERING:
Ross & Baruzzini
6 S Old Orchard Ave
St. Louis, MO 63119
ph 314.918.8383 www.rossbar.com
Missouri State Certificate of Authority #000148

Timberlake ENGINEERING
A Custom Engineering Company
LIGHTING ENGINEERING:
Timberlake Engineering
912 Old Highway 63 South
Columbia, MO 65201
ph 573.875.4365 ext 209 www.customengr.com
Missouri State Certificate of Authority #000239

Health Care
MU PROJECT NO. - CP221944
UPMB 4th FLOOR MOA CLINIC RENOVATION

1020 Hitt St, Columbia, MO 65212

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TEMPERATURE CONTROLS

DATE 3 OCTOBER, 2022
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 User: janet
 Status: Approved

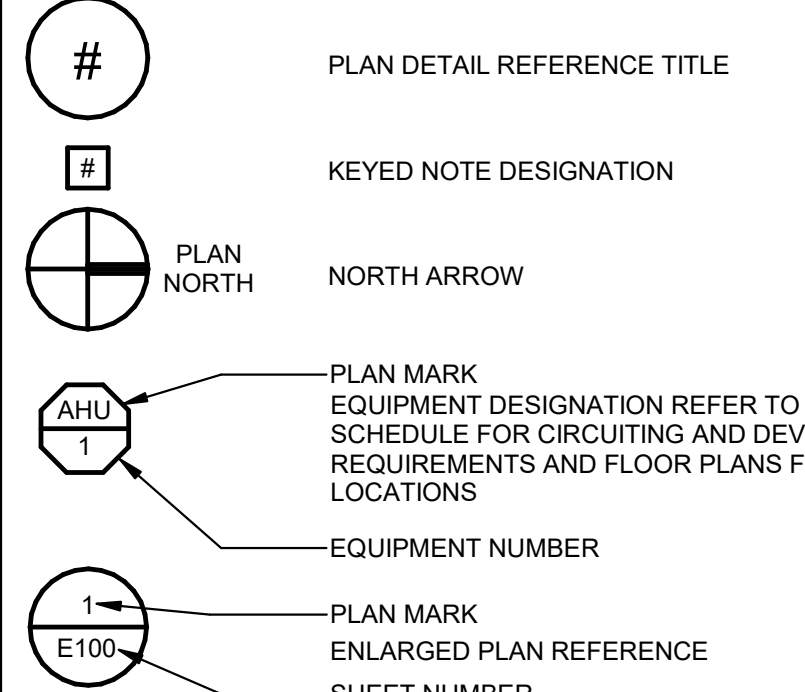
ELECTRICAL GENERAL NOTES

- 1. MAKE ALL INSTALLATIONS IN ACCORDANCE WITH THE (AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAA)) AND/OR ARCHITECTURAL BARRIERS ACT (ABA).
2. MOUNTING HEIGHTS INDICATED WITHIN PLANS AND SCHEDULES ARE DIMENSIONED TO THE CENTER LINE OF THE DEVICE, EQUIPMENT, LUMINAIRE, ETC. UNLESS OTHERWISE NOTED.
3. COORDINATE EXACT EQUIPMENT LOCATIONS WITH OTHER TRADES. EQUIPMENT LOCATIONS SHOWN ON ELECTRICAL PLANS ARE DIAGRAMMATICAL ONLY AND MIGHT NOT BE EXACT.
4. CIRCUIT IDENTIFICATION NUMBERS BESIDE ELECTRICAL DEVICES AND CONNECTION POINTS ON PLANS CORRESPOND TO AN OVERCURRENT DEVICE IN THE DESIGNATED PANELBOARD. NOTE ALL CIRCUIT NUMBER CHANGES MADE IN THE FIELD AT EACH ELECTRICAL DEVICE AND CONNECTION POINT. ALSO CORRECT THE DIRECTORIES AND DEVICE MARKINGS AT PANELBOARDS, SWITCHGEAR AND SWITCHGEAR TO ACCURATELY REFLECT THE AS-BUILT CONDITIONS.
5. INSTALL EMERGENCY AND EXIT LUMINAIRE WIRING IN A SEPARATE RACEWAY FROM THAT OF ANY NORMAL POWER DEVICE.
6. CONCEAL ALL CONDUIT IN WALLS, PARTITIONS, ABOVE CEILINGS, AND IN FLOOR SLABS, ETC. UNLESS OTHERWISE INDICATED ON THE PLANS OR IN THE SPECIFICATIONS. CONDUIT ROUTED IN MECHANICAL ROOMS, ELECTRICAL ROOMS, AND STORAGE ROOMS WITHOUT CEILINGS MAY BE ROUTED EXPOSED.
7. COORDINATE VERTICAL CONDUIT ROUTING TO WALL MOUNTED DEVICES TO ENSURE DEVICES LOCATED WITHIN AN 18-INCH DIMENSION WILL BE CENTER-ALIGNED VERTICALLY.
8. CONCEAL ELECTRICAL CONNECTIONS FOR ELECTRICAL WATER COOLERS (EWC) BEHIND WATER COOLER ACCESS PLATE OR DIRECTLY BELOW AND CENTERED ON WALL.
9. FIELD COORDINATE ALL ELECTRICAL AND TELECOMMUNICATIONS EQUIPMENT MOUNTING LOCATIONS TO AVOID ENCROACHMENT OF OPERATION AND ACCESS TO EQUIPMENT FROM OTHER TRADES. COORDINATE THE APPROPRIATE MOUNTING LOCATION WITH THE AFFECTED DISCIPLINES WHEN EQUIPMENT IS SPECIFIED TO BE MOUNTED ONTO THE SURFACE OF ANOTHER DISCIPLINE'S EQUIPMENT.
10. REPAIR ALL OPENINGS MADE IN EXISTING WALLS, PARTITIONS, ETC TO ACCOMMODATE WORK OF THIS DISCIPLINE TO MATCH THE SURROUNDING CONDITIONS. USING WORKERS QUALIFIED IN THE APPROPRIATE TRADE. APPROPRIATELY GROUT OR SEAL ALL CONDUITS THROUGH WALLS.
11. ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS MUST HAVE BEEN TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIRESTOPS.
12. INSTALL A PERMANENT DIRECTORY ACCORDING TO THE NATIONAL ELECTRICAL CODE, ARTICLE 230 AT EACH SERVICE ENTRANCE AND POWER SOURCE.
13. PERFORM ALL WELDING ACCORDING TO AMERICAN WELDING SOCIETY STANDARDS. FURNISH CERTIFICATES QUALIFYING EACH WELDER TO THE ARCHITECT OR ENGINEER PRIOR TO START OF WORK. THE ARCHITECT OR ENGINEER RESERVES THE RIGHT TO REQUIRE QUALIFYING DEMONSTRATION, AT NO ADDITIONAL EXPENSE, OF ANY WELDERS ASSIGNED TO THE JOB.
14. REPLACE OR REINSTALL ALL PORTIONS OF THE BUILDING (CEILING TILES, WALLS, ETC) REMOVED TO ACCOMMODATE THE INSTALLATION OF ANY ELECTRICAL DEVICE. EQUIPMENT, ETC., USING WORKERS QUALIFIED IN THE APPROPRIATE TRADE.
15. COORDINATE LUMINAIRE LOCATIONS SUCH THAT LUMINAIRES RUN PARALLEL TO THE FACE OF THE EQUIPMENT AND OVER AISLES BETWEEN EQUIPMENT IN ALL MECHANICAL AND ELECTRICAL EQUIPMENT AREAS. INSTALL AT PROPER LOCATIONS AND HEIGHTS TO PROPERLY ILLUMINATE ALL GAGES, PANELS, ELECTRICAL EQUIPMENT, CONTROLS, VALVES, ETC. CHAIN HANGING, STEM HANGING, CHANNEL HANGING, ETC. ARE ACCEPTABLE METHODS.

GENERAL DEMOLITION NOTES

- 1. REMOVE, CAP AND RELOCATE EQUIPMENT, OUTLETS, CONDUIT, WIRE, ETC., AS SHOWN AND SPECIFIED ON DRAWINGS, AND AS MAY BECOME NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS. VISIBLY EXAMINE ALL EXISTING WALLS DESIGNATED FOR REMOVAL TO DETERMINE THE CONDUIT AND THE WIRING THAT WILL REQUIRE CAPPING AND REMOVAL. WHETHER OR NOT SUCH CONDITIONS ARE INDICATED ON THE DRAWINGS FAILURE TO VISIT THE SITE AND TO TAKE ALL EXISTING CONDITIONS INTO ACCOUNT WILL NOT ALLOW FOR CHANGES TO THE SCOPE OF WORK.
2. MAINTAIN CIRCUIT CONTINUITY TO ALL EXISTING FIXTURES, EQUIPMENT, OUTLETS, ETC., TO REMAIN IN USE WHETHER NOTED ON THE PLANS OR NOT. FIELD VERIFY EXISTING ITEMS TO REMAIN IN USE. RECONNECT RACEWAYS AND WIRING FOR EXISTING CIRCUITS WHICH MUST BE RE-ROUTED OR WHICH ARE PARTIALLY ABANDONED TO POWER THE REMAINING OUTLETS ON THE CIRCUIT.
3. REMOVE ALL UNUSED WIRING AND CABLES BACK TO THEIR SOURCE. REMOVE ALL UNUSED CONDUIT THAT IS EXPOSED OR ABOVE ACCESSIBLE CEILINGS WHICH IS AFFECTED BY OR IS IN THE AREA OF THE DEMOLITION WORK. COORDINATE WITH MU PROJECT MANAGER ON ITEMS TO BE REMOVED.
4. THE INTENTION OF THE ELECTRICAL DEMOLITION DRAWINGS IS TO DISCONNECT AND REMOVE ALL ELECTRICAL WORK MADE VOID BY THE SCOPE OF THE CONSTRUCTION AND ALTERATION. FIELD VERIFY EXACT MATERIAL QUANTITIES REQUIRED TO BE REMOVED.
5. DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL EQUIPMENT, DEVICES, ASSOCIATED RACEWAYS, SUPPORTING HARDWARE, AND WIRING, WHICH HAVE BEEN MADE OBSOLETE BY THE WORK OR IS SHOWN DASHED ON THE ELECTRICAL DEMOLITION DRAWINGS, UNLESS OTHERWISE NOTED. ALTHOUGH AN ATTEMPT HAS BEEN MADE TO INDICATE ALL OF THIS WORK, TOTAL ACCURACY IS NOT GUARANTEED. VISIBLY EXAMINE ALL AREAS AND WALLS AND CEILINGS SCHEDULED FOR REMOVAL TO DETERMINE EXISTING ELECTRICAL ITEMS TO REMAIN.
6. WHERE ELECTRICAL EQUIPMENT, CONDUIT, BOXES, AND SUPPORTING HARDWARE ARE REMOVED PATCH AND FINISH THE SURFACE AS REQUIRED TO MATCH THE EXISTING, USING WORKERS QUALIFIED IN THE APPROPRIATE TRADE.
7. WHERE BURIED CONDUITS EXTENDING OUT OF A CONCRETE SLAB BECOME ABANDONED, CUT AND GRIND THE CONDUITS OFF FLUSH WITH TOP OF SLAB AND PLUG WITH NON-SHRINK WATERPROOF GROUT FILL.
8. TAKE ALL REMOVED MATERIALS FROM THE PROJECT SITE, EXCEPT FOR THOSE TO BE RELOCATED, STORED, OR TURNED OVER TO THE OWNER.
9. ACCEPTANCE OF CONTRACT MEANS INSTALLER ACCEPTS EXISTING CONDITIONS.
10. COORDINATE ALL DEMOLITION WORK WITH ALL OTHER TRADES.
11. PROVIDE A BLANK COVER OVER THE OUTLET WHERE A FLUSH DEVICE IS BEING REMOVED FROM FLOORS AND WALLS THAT ARE TO REMAIN. MATCH THE COLOR AND MATERIAL TO THE EXISTING REMAINING COVERS IN THE ROOM OR SPACE.
12. LEGALLY DISPOSE OF HAZARDOUS MATERIALS AND BALLASTS OR OTHER EQUIPMENT CONTAINING PCBs AND LAMPS CONTAINING MERCURY. COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS. REFER TO FRONT END DOCUMENTS.
13. UPON COMPLETION OF CONSTRUCTION, PROVIDE RED-LINE PANEL SCHEDULE DEPICTING THE ACTUAL CIRCUITS MODIFIED OR ADDED AS PART OF THIS PROJECT TO UMHC. PROVIDE NEW TYPED PANELBOARD DIRECTORY CARDS WITHIN EACH PANEL ENCLOSURE FOR ALL PANELS MODIFIED AS PART OF THIS PROJECT. FOR NEW LOADS, DESCRIBE THE SPECIFIC LOAD TYPE AND LOCATION IN THE CIRCUIT DESCRIPTION FIELD IN THE DIRECTORY CARDS GIVEN TO UMHC. FOR EXISTING TO REMAIN LOADS, TRANSPOSE THE ACTUAL CIRCUIT DESCRIPTION INFORMATION PROVIDED ON THE EXISTING PANELBOARD DIRECTORY CARD. DO NOT USE "EXISTING LOAD" VERBIAGE IN THE CIRCUIT DESCRIPTION WHERE ALL LOADS ARE DEMOLISHED FROM A CIRCUIT. CONTRACTOR TO MOVE CIRCUIT BREAKER HANDLE TO THE OFF POSITION AND INDICATE POLE POSITION AS "SPARE" IN THE NEW PANELBOARD DIRECTORY CARD.

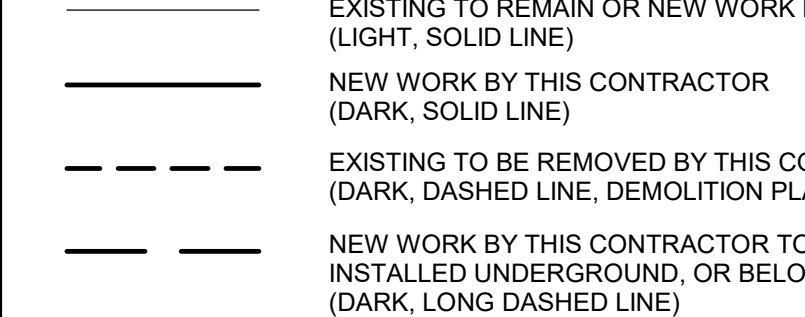
DRAWING REFERENCES



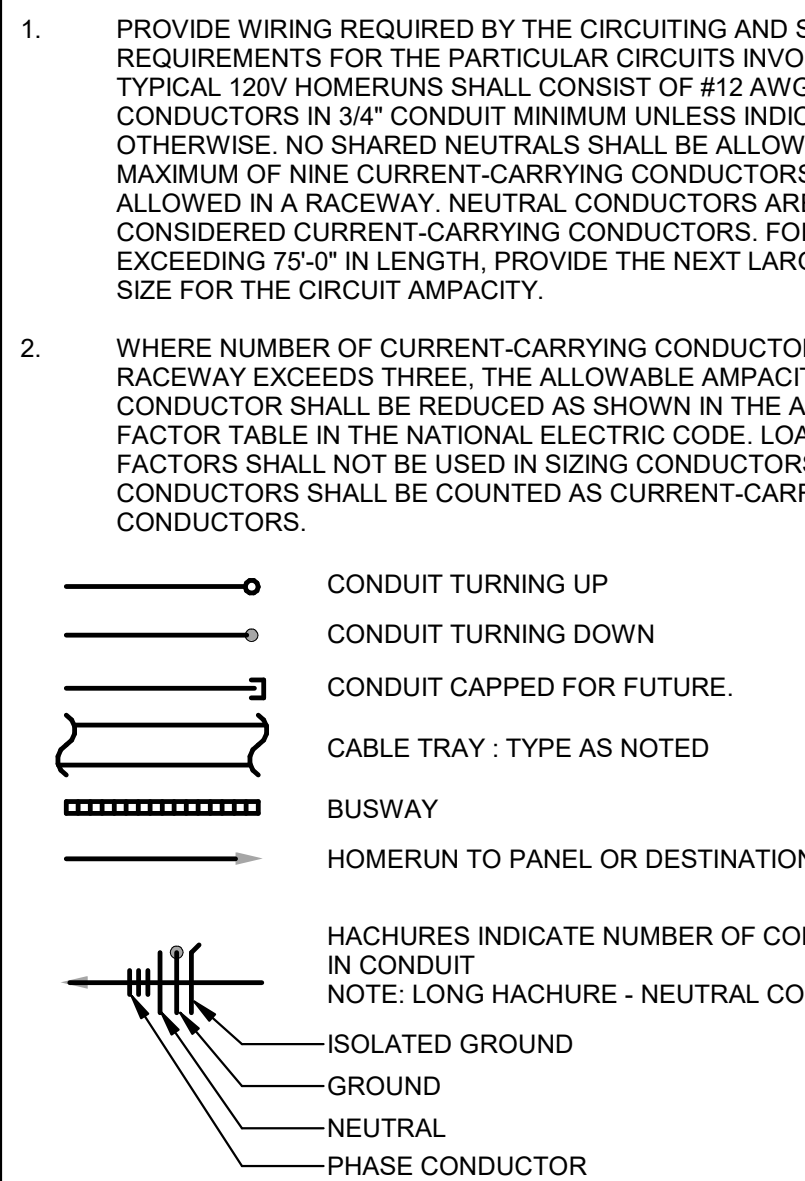
ABBREVIATIONS

A.F.F. : ABOVE FINISHED FLOOR
C. : CONDUIT
E.C. : ELECTRICAL CONTRACTOR
ER : EXISTING RELOCATED
ETR : EXISTING TO REMAIN
EWC : ELECTRICAL WATER COOLER
G.C. : GENERAL CONTRACTOR
GND : GROUND
TYP : TYPICAL
U.O.N. : UNLESS OTHERWISE NOTED

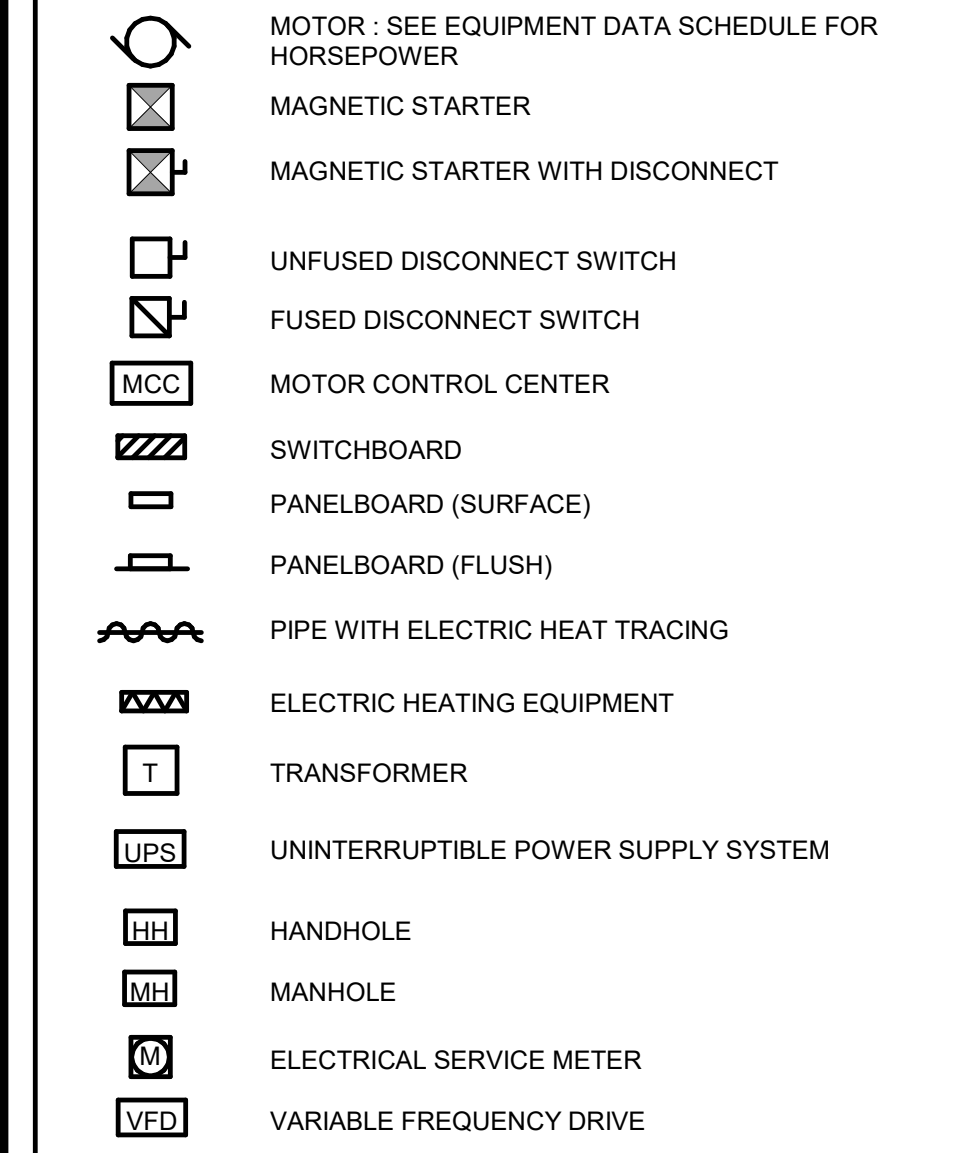
LINE TYPE LEGEND



WIRING PLANS

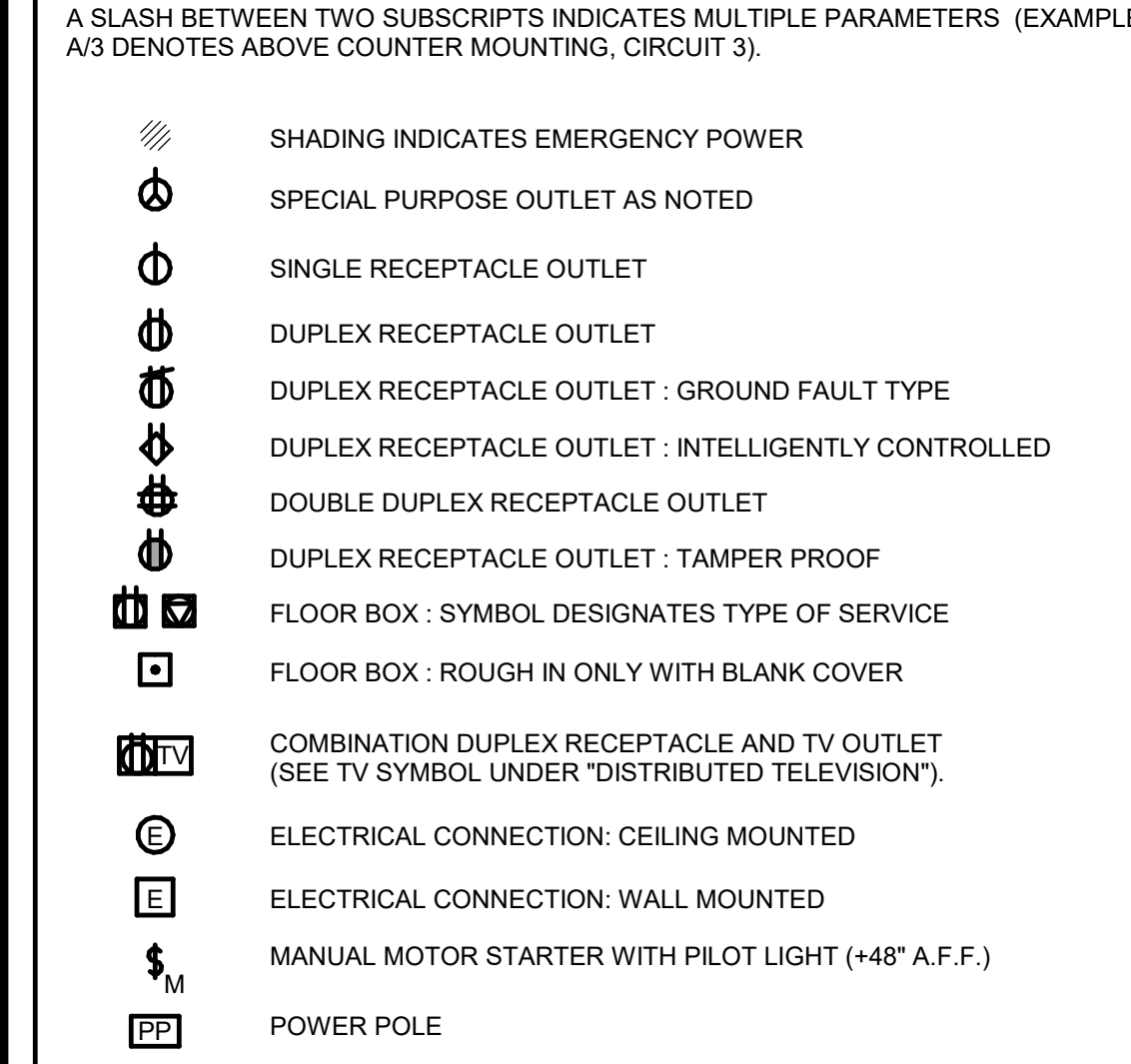


POWER EQUIPMENT

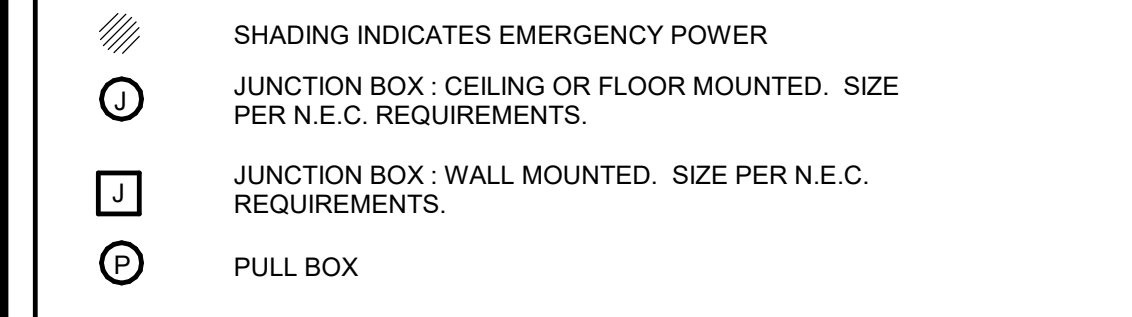


WIRING DEVICES, RECEPTACLES - MISC.

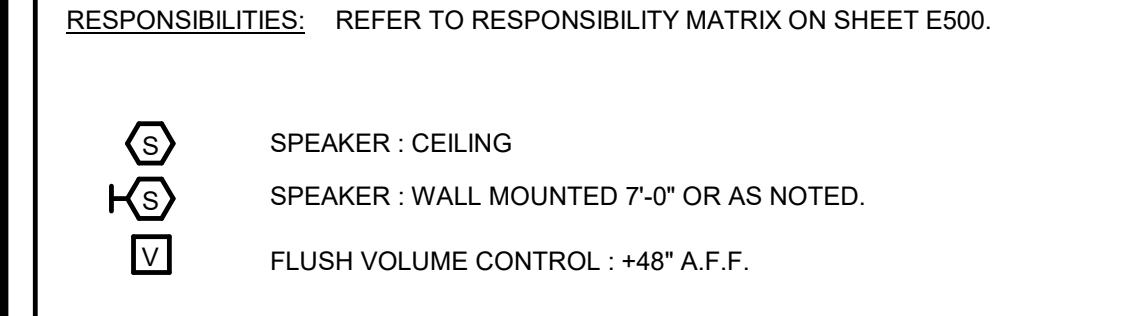
- 1. TYPICAL MOUNTING HEIGHT: +18" A.F.F.
2. SUBSCRIPT LEGEND: A: ABOVE COUNTER: MOUNT +6" ABOVE BACKSPASH OR WORK SURFACE. C: CEILING: MOUNT FLUSH WITHIN CEILING TILE OR GYPSUM BOARD. CR: COMPUTER RECEPTACLE: PROVIDE LABEL TO READ: 'COMPUTER SWITCHED'. PROVIDE ONE OUTLET CONTROLLED BY TOGGLE SWITCH. U: UNDER COUNTER: WITHIN CABINETRY OR CASEWORK. FF: FURNITURE FEED: COORDINATE WITH FURNITURE INSTALLER FOR ALL CONNECTION REQUIREMENTS.



JUNCTION AND PULL BOXES



PUBLIC ADDRESS SYSTEMS



LUMINAIRES

- 1. REFER TO LUMINAIRE SCHEDULE FOR LUMINAIRE DESCRIPTIONS.
2. "NL" INDICATES UNSWITCHED LUMINAIRE
3. "SE" DESIGNATION INDICATES LUMINAIRE IS SWITCHED DURING NORMAL OPERATION, BUT UPON LOSS OF POWER, LUMINAIRE REVERTS TO 100% OUTPUT VIA BATTERY BALLAST. REGARDLESS OF THE ON/OFF STATUS OF THE LOCAL LIGHTING CONTROL DEVICE. EXTEND AN UNSWITCHED PORTION OF THE LIGHTING CIRCUIT SERVING AREA, AHEAD OF ALL LIGHTING CONTACTORS, TO THIS DEVICE.
4. SHADING LEGEND (APPLICABLE TO LUMINAIRE SYMBOLS): NO SHADING: NORMAL POWER. HALF-SHADING: LIFE SAFETY OR BATTERY BACKUP. FULL-SHADING: CRITICAL POWER.
5. LUMINAIRE DESIGNATION KEY: A: LUMINAIRE TYPE. 1: CIRCUIT NUMBER. a: CONTROLLING SWITCH.

SWITCHES AND LIGHTING CONTROL DEVICES

- 1. TYPICAL MOUNTING HEIGHT: 48" A.F.F. TO CENTER U.O.N.
2. WHERE TWO OR MORE SWITCHES ARE SHOWN ADJACENT TO EACH OTHER, PROVIDE A COMMON GANG BOX WITH A SINGLE, SEAMLESS FACEPLATE.
3. SUBSCRIPT LEGEND: 2: TWO-POLE SWITCH. 3: THREE-WAY SWITCH. 4: FOUR-WAY SWITCH. K: KEY SWITCH. D: DIMMER - COORDINATE REQUIREMENTS FOR LUMINAIRE COMPATIBILITY. P: PILOT LIGHT SWITCH. C: MOMENTARY CONTACT SWITCH. LV: LOW VOLTAGE CONTROL MASTER STATION. L: LOW VOLTAGE LOCAL SINGLE/PUSH BUTTON STATION. - A LOWERCASE SUBSCRIPT INDICATES THE SWITCH/LEGS THE DEVICE CONTROLS.
4. REFER TO SPECIFICATION SECTION 28 09 23 FOR ADDITIONAL INFORMATION.
5. SWITCH - TYPE AS INDICATED BY SUBSCRIPT.
6. CEILING OCCUPANCY DETECTOR : INFRARED SENSOR TYPE.
7. CEILING OCCUPANCY DETECTOR : ULTRASONIC TYPE.
8. CEILING OCCUPANCY DETECTOR : DUAL TECHNOLOGY TYPE.
9. WALL MOUNTED SINGLE SWITCH OCCUPANCY SENSOR [PIR][ULTRASONIC][DUAL TECHNOLOGY] TYPE.
10. WALL MOUNTED DUAL SWITCH OCCUPANCY SENSOR [PIR][ULTRASONIC][DUAL TECHNOLOGY] TYPE.
11. CEILING PHOTOCCELL.
12. DIGITAL TIMER.

TELECOMMUNICATIONS

- 1. TYPICAL MOUNTING HEIGHT: +18" A.F.F. UNLESS OTHERWISE NOTED. PROVIDE OR 4 1/16" SQUARE BOX WITH SINGLE GANG PLASTER RING (VERTICAL).
2. ALL TELECOMMUNICATION CONDUIT SHALL BE A MINIMUM OF 1-1/4" IN DIAMETER STUBBED TO ACCESSIBLE CORRIDOR CEILING SPACE, UNLESS OTHERWISE NOTED.
3. ALL TELECOMMUNICATION CABLE SHALL BE OWNER PROVIDED WITH A PLENUM RATED JACKET. ALL CABLES RUN EXPOSED IN STRUCTURE ABOVE OR ABOVE CEILINGS SHALL BE SUPPORTED BY J-HOOKS AT EVERY 5'-0" TO NEAREST CABLE TRAYS. PROVIDE INSULATED BUSHINGS ON ALL RACEWAYS.
4. ALL DATA CABLES SHALL BE CAT 6A, YELLOW IN COLOR, AND TERMINATED BY OWNER.
5. REFER TO LOW VOLTAGE RESPONSIBILITY MATRIX ON E100 FOR MORE INFORMATION.
6. SUBSCRIPT LEGEND: A: ABOVE COUNTER - MOUNT +6" ABOVE BACKSPASH OR WORK SURFACE WITH BOX ORIENTED HORIZONTALLY. C: CEILING MOUNTED - MOUNT FLUSH WITHIN CEILING TILE OR GYPSUM CEILING. W: WALL PHONE - MOUNT +48" A.F.F. OR 6" ABOVE WORK SURFACE. PROVIDE MOUNTING LUGS FOR TELEPHONE. WAP: WIRELESS ACCESS POINT DATA OUTLET - INSTALL ONE (1) OWNER FURNISHED CAT 6A CABLE AND 10'-0" OF SLACK CABLE COILED ABOVE ACCESSIBLE CEILING FROM TELECOM ROOM. WIRELESS ACCESS POINTS ARE OWNER FURNISHED, OWNER INSTALLED. #: QUANTITY OF OWNER FURNISHED CAT 6A CABLES TO BE INSTALLED BY CONTRACTOR. WHEN NOT INDICATED, THREE (3) CABLES SHALL BE ASSUMED. CABLES SHALL ORIGINATE FROM TELECOMMUNICATION. - A SLASH BETWEEN TWO SUBSCRIPTS INDICATES MULTIPLE PARAMETERS (EXAMPLE: A/3 DENOTES ABOVE COUNTER MOUNTING, 3 CABLES.)
7. TELECOMMUNICATION OUTLET: PROVIDE CONDUIT FOR WIRING AND A SPARE CONDUIT STUBBED TO THE ACCESSIBLE CEILING SPACE WITH BUSHING. PROVIDE 4 POSITION FACEPLATE AND A TOTAL OF (3) ACTIVE JACKS UNLESS OTHERWISE NOTED.
8. EXISTING TELECOMMUNICATION OUTLET TO REMAIN

NURSE CALL SYSTEMS

- 1. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS AND LOCATIONS. WHERE ELEVATIONS DO NOT SPECIFY, MOUNT DEVICES AS INDICATED.
2. PROVIDE RECESSED ROUGH-IN COMPONENTS CONSISTING OF 4" x 4" x 3.5" DOUBLE GANG BOX WITH SINGLE GANG MUD RING AND ONE (1) 1" CONDUIT STUBBED TO ABOVE CEILING SPACE WITH BUSHING. PROVIDE J-HOOK SUPPORTS ABOVE CEILING BETWEEN DEVICE, CORRIDOR/FIRE RATED PATHWAY, AND CABLE TRAY.
3. REFER TO LOW VOLTAGE RESPONSIBILITY MATRIX ON SHEET E500 FOR MORE INFORMATION.
4. EMERGENCY PULL CORD STATION : +48" A.F.F. AT TOILETS, +78" AT SHOWER STATIONS. CORD LENGTH SHALL EXTEND TO +6" A.F.F.
5. EMERGENCY PUSHBUTTON STATION : +48" A.F.F. U.O.N.
6. WALL MOUNTED DOME LIGHT: MOUNT ABOVE DOOR JAMB, CENTERED BETWEEN TOP OF DOOR FRAME AND CEILING.
7. NURSE CALL MASTER STATION : 3 GANG, NON-GANGABLE, 3.5" DEEP BOX

ACCESS CONTROL SYSTEMS

- RESPONSIBILITIES: RACEWAY AND BOXES: CONTRACTOR FURNISHED, INSTALLED. WIRING: CONTRACTOR FURNISHED, INSTALLED. DEVICES: CONTRACTOR FURNISHED, INSTALLED.
1. CARD READER : WALL MOUNT AT +48" A.F.F.
2. REQUEST TO EXIT, TOUCHLESS ACTUATOR: WALL MOUNT AT +48" A.F.F.
3. PUSHBUTTON : +48" A.F.F. OR AS NOTED

FIRE ALARM SYSTEMS

- 1. REFER TO SPECIFICATIONS SECTION 283111 FOR ADDITIONAL INFORMATION PERTAINING TO THE FIRE ALARM SYSTEM.
2. SIGNALING LINE CIRCUITS SHALL BE ROUTED IN A CLASS B CONFIGURATION.
3. NOTIFICATION APPLIANCE CIRCUITS SHALL BE ROUTED IN A CLASS B CONFIGURATION.
4. FIRE ALARM CIRCUITS SHALL BE ROUTED IN CONDUIT WHERE INACCESSIBLE. WHERE ROUTED ABOVE ACCESSIBLE CEILINGS, FIRE ALARM CIRCUITS SHALL CONSIST OF PLENUM RATED CABLE SUPPORTED EVERY 4'-0" BETWEEN DEVICES.
5. FOR VISUAL DEVICES, THE 'W' WITHIN THE SYMBOL CORRESPONDS TO THE CANDELA RATING OF THE DEVICE: 1=15cd, 3=30cd, 5=75cd, 7=110cd.
6. WALL MOUNTED NOTIFICATION DEVICES SHALL BE MOUNTED WITH THE TOP OF THE DEVICE +90" A.F.F. OR 6" BELOW THE CEILING, WHICHEVER IS LOWER.
7. FIRE ALARM MANUAL STATION: +48" A.F.F. TO CENTER LINE
8. WALL MOUNTED SPEAKER
9. WALL MOUNTED SPEAKER WITH STROBE
10. WALL MOUNTED STROBE
11. CEILING MOUNTED SPEAKER WITH STROBE
12. CEILING MOUNTED SPEAKER
13. HEAT DETECTOR : FIXED TEMPERATURE
14. HEAT DETECTOR : RATE OF RISE
15. SMOKE DETECTOR : PHOTOELECTRIC TYPE
16. DUCT MOUNTED SMOKE DETECTOR : PHOTOELECTRIC TYPE
17. SPRINKLER SYSTEM WATER FLOW SWITCH
18. SPRINKLER SYSTEM TAMPER (SUPERVISORY) SWITCH
19. SPRINKLER SYSTEM ELECTRICAL SOLENOID VALVE
20. EXTINGUISHING SYSTEM PRESSURE SWITCH
21. SINGLE STATION SMOKE DETECTOR WITH SOUNDER BASE
22. FIRE ALARM ELECTROMAGNETIC DOOR HOLDER
23. CONTACT IN KITCHEN EXTINGUISHING SYSTEM PANEL FOR CONNECTION INTO FIRE ALARM SYSTEM
24. END OF LINE RESISTOR
25. ADDRESSABLE CONTROL RELAY
26. ADDRESSABLE MONITOR MODULE
27. SMOKE DAMPER

BSA LifeStructures
12645 Olive Blvd, Suite 227
Creve Coeur, MO 63141
ph 314.754.6306 fx 314.754.4452
Architectural Registration Number - 2003010309

Ross & Baruzzini MEP ENGINEERING
6 S Old Orchard Ave
St. Louis, MO 63119
ph 314.918.8383 www.rossbar.com
Missouri State Certificate of Authority #000148

Timberlake ENGINEERING
A Custom Engineering Company
LIGHTING ENGINEERING:
Timberlake Engineering
912 Old Highway 63 South
Columbia, MO 65201
ph 573.875.4365 ext.209 www.customegr.com
Missouri State Certificate of Authority #000239

Health Care
MU PROJECT NO. - CP221944
UPMB 4th FLOOR MOA CLINIC RENOVATION

Table with 3 columns: MARK, DATE, DESCRIPTION. Contains fire alarm system components like manual station, speaker, strobe, detector, and switch.

I hereby certify these drawings and/or specifications have been prepared by me, or under my supervision, I further certify that to the best of my knowledge these drawings and/or specifications are as required by and in compliance with the Building Codes of the University of Missouri.

Professional Engineer Seal: CHRISTOPHER A. PHILIPP, PE-022262, State of Missouri

ELECTRICAL SYMBOLS & ABBREVIATIONS

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GENERAL NOTES

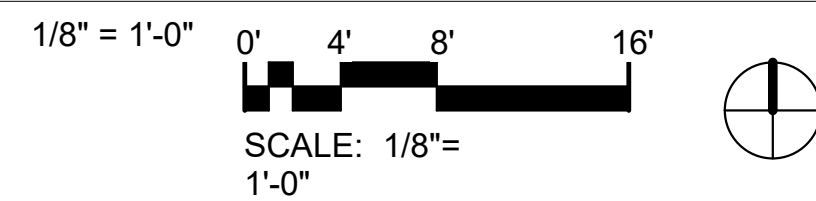
- A. REFER TO SHEET E000 FOR GENERAL DEMOLITION NOTES.
- B. REMOVE AND STORE ALL FIRE ALARM DEVICES, WIRELESS ACCESS POINT AND ANTENNAS FOR REUSE. SEE NEW WORK PLANS FOR ADDITIONAL INFORMATION.
- C. IN AREAS WHERE DEMOLITION WORK IS NOT SCHEDULED, DISCONNECT, REMOVE AND SALVAGE EXISTING CEILING MOUNTED DEVICES, LUMINAIRES, ETC. AS REQUIRED TO COMPLETE ABOVE CEILING WORK FOR ALL TRADES. UPON COMPLETION OF CONSTRUCTION, REINSTALL EXISTING CEILING MOUNTED DEVICES IN ORIGINAL LOCATIONS. DEVICES SHALL OPERATE AS THEY DID PRIOR TO CONSTRUCTION.

KEYED NOTES

- 1. DISCONNECT AND REMOVE RECEPTACLE DEVICE AND PRESERVE EXISTING BOX AND WIRING FOR REUSE. SEE NEW WORK PLAN FOR ADDITIONAL INFORMATION.
- 2. DISCONNECT AND REMOVE INOVONICS DEVICE AND RETURN TO OWNER.
- 3. DISCONNECT POWER TO ELECTRIC WATER COOLER, MAINTAIN EXISTING CIRCUIT FOR CONNECTION TO NEW BOTTLE FILLER / WATER COOLER. SEE NEW WORK PLAN FOR ADDITIONAL INFORMATION.



1 ELECTRICAL FOURTH FLOOR DEMOLITION PLAN



MARK	DATE	DESCRIPTION

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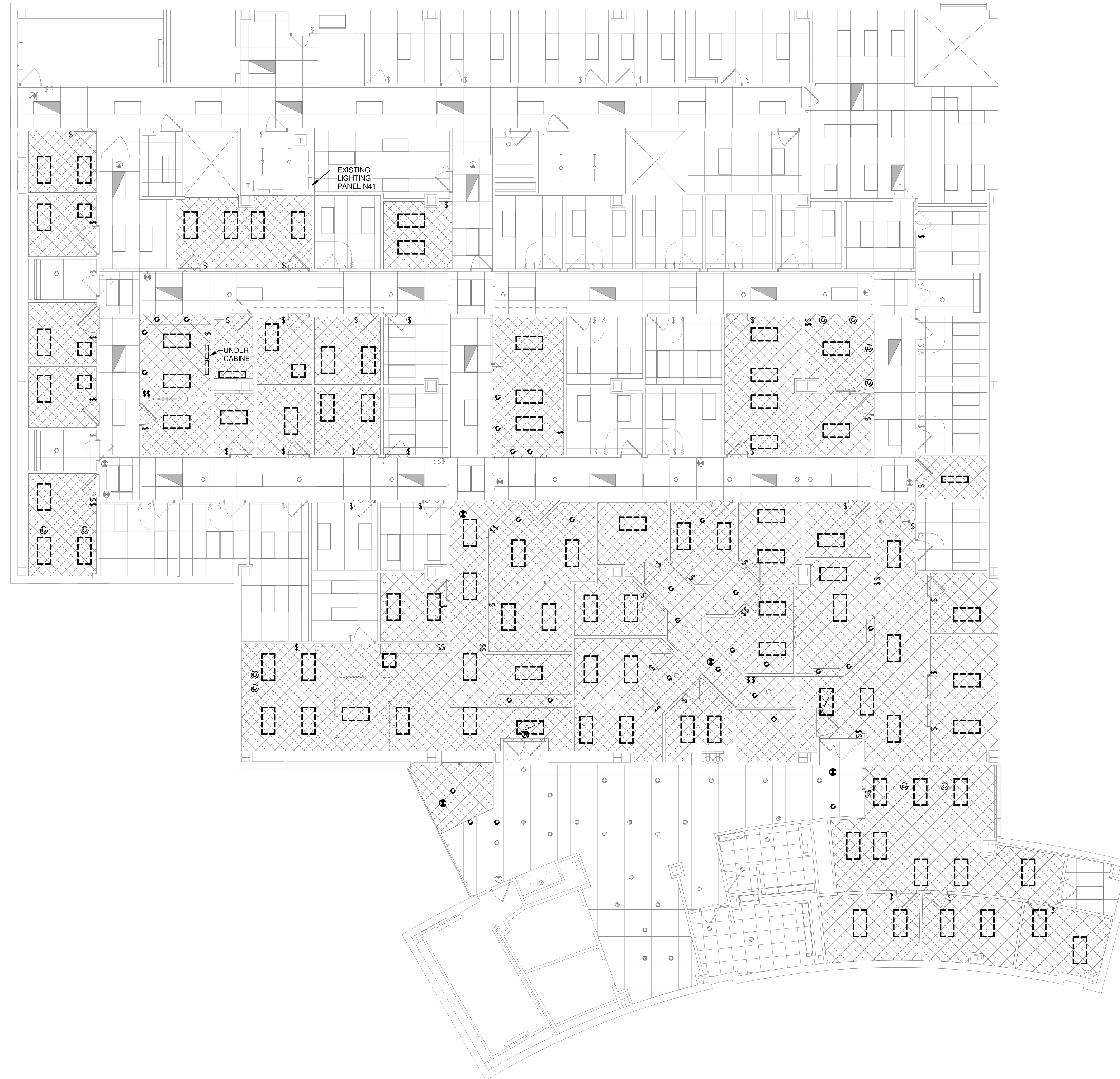
CHRISTOPHER A. PHILIPP
PE-022252

ELECTRICAL FOURTH FLOOR DEMOLITION PLAN

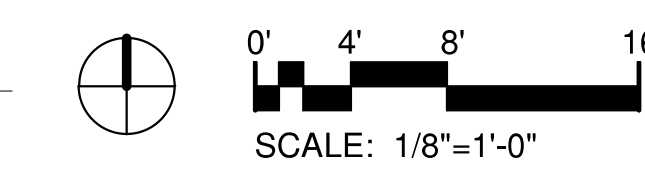
DATE: 3 OCTOBER, 2022
BSALS PROJECT NO. 14110005

GENERAL NOTES

- A. REFER TO SHEET E000 FOR ELECTRICAL GENERAL NOTES.
- B. DEMOLISH EXISTING LIGHT FIXTURES AND LIGHTING CONTROL DEVICES SHOWN IN BOLD. REMOVE EXISTING WIRING BACK TO NEAREST JUNCTION BOX AND PREPARE FOR NEW FIXTURES CONNECTED TO THE EXISTING CIRCUITS.
- C. IN AREAS WHERE DEMOLITION WORK IS NOT SCHEDULED, DISCONNECT, REMOVE AND SALVAGE EXISTING CEILING MOUNTED DEVICES, LUMINAIRES, ETC. AS REQUIRED TO COMPLETE ABOVE CEILING WORK FOR ALL TRADES. UPON COMPLETION OF CONSTRUCTION, REINSTALL EXISTING CEILING MOUNTED DEVICES IN ORIGINAL LOCATIONS. DEVICES SHALL OPERATE AS THEY DID PRIOR TO CONSTRUCTION.
- D. RE-SUPPORT ALL EXISTING TO REMAIN ELECTRICAL SYSTEMS (CONDUIT, WIRE, CABLE, ETC.) CURRENTLY SUPPORTED BY WALLS SCHEDULES TO BE DEMOLISHED.
- E. LEGALLY DISPOSE OF LIGHTING BALLASTS AND LAMPS CONTAINING MERCURY. COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS.



1 LIGHTING FOURTH FLOOR - DEMOLITION PLAN
1/8" = 1'-0"



BSA LifeStructures
12645 Olive Blvd, Suite 227
Creve Coeur, MO 63141
ph 314.754.6306 fx 314.754.4452
Architectural Registration Number - 2003010309



MEP ENGINEERING:
Ross & Baruzzini
6 S Old Orchard Ave
St. Louis, MO 63119
ph 314.918.8383 www.rossbar.com
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912 Old Highway 63 South
Columbia, MO 65201
ph 573.875.4365 ext 209 www.customengr.com
Missouri State Certificate of Authority #000239

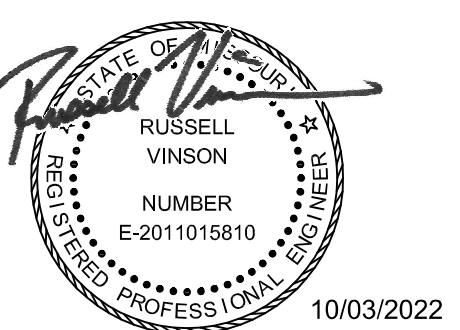


MU PROJECT NO. - CP221944
**UNIVERSITY PHYSICIANS
MEDICAL BUILDING
(UPMB) - 4TH FLOOR -
MOA CLINIC RENOVATION**
1020 Hitt St, Columbia, MO 65212

BID SET

MARK	DATE	DESCRIPTION
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Russell A. Vinson
PE-2011015810

**LIGHTING FOURTH FLOOR
DEMOLITION PLAN**

DATE 3 OCTOBER 2022
BSALS PROJECT NO. 14110005

ED102

9/29/2022 10:45:52 AM
 BSA 32014110005 - UPMB Renovation CD 2024 - MUHC UPMB 4th Floor Renovation - Lighting.rvt
 DESIGNED: [Name]
 DRAWN: [Name]
 APPROVED: [Name]

GENERAL NOTES

- REFER TO SHEET E000 FOR ELECTRICAL GENERAL NOTES.
- REFER TO ARCHITECTURAL SHEET G200 FOR IDENTIFICATION OF PROJECT SCOPE OF WORK AREAS.
- CIRCUIT NUMBER ARE FOR REFERENCE AND ARE SHOWN FOR LOADING PURPOSES ONLY. CONTRACTOR TO USE CIRCUITS MADE SPARE FROM DEMOLITION AND AVAILABLE SPARE CIRCUIT BREAKERS IN PANELBOARDS. CONTRACTOR MAY CONNECT NEW RECEPTACLES TO EXISTING CIRCUITS ALREADY IN ROOMS SO LONG AS THERE ARE NO MORE THAN (8) RECEPTACLES ON A SINGLE CIRCUIT. DEVICES SHOWN ON DEDICATED CIRCUITS TO REMAIN ON DEDICATED CIRCUITS.

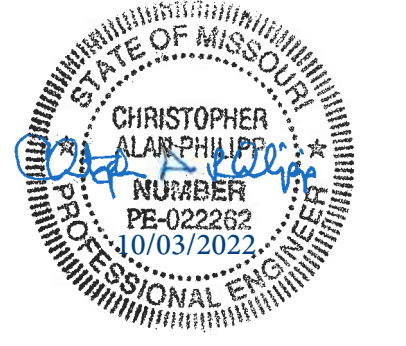
KEYED NOTES

- CORE DRILL FLOOR AND PROVIDE 6" POKE THRU DEVICE WITH (1) GANG OF POWER (DUPLX RECEPTACLE) AND FLUSH COVER PLATE. WIREMOLD EVOLUTION SERIES 6 OR APPROVED EQUAL. FIELD VERIFY EXISTING STRUCTURE AND VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO CORE DRILL ROUTE (2#12, (1#125 IN 3/4" C. DOWN WALL TO 3RD FLOOR CEILING SPACE AND OVER TO POKE THRU).
- PROVIDE 1-1/2" EMPTY CONDUIT ROUTED BETWEEN JUNCTION BOXES FOR OWNER FURNISHED HDMI CABLE FROM ULTRA SOUND MACHINE TO MONITOR.
- PROVIDE FINAL CONNECTION TO NEW BOTTLE FILLER / WATER COOLER. REUSE EXISTING CIRCUIT.
- PROVIDE NEW RECEPTACLE AS INDICATED AND CONNECT TO EXISTING WIRING. PROVIDE NEW FACEPLATE FOR DEVICE.
- INTERCEPT EXISTING FIRE ALARM WIRING AND EXTEND AND CONNECT TO RELOCATED CEILING MOUNTED FIRE ALARM STROBE.
- INTERCEPT EXISTING FIRE ALARM WIRING AND EXTEND AND CONNECT TO RELOCATED CEILING MOUNTED FIRE ALARM HORN/STROBE.
- CONNECT NEW RECEPTACLE TO SAME CIRCUIT AS ADJACENT RECEPTACLE.
- PROVIDE 3 GANG, NON-GANGABLE, 3.5" DEEP BOX WITH 1" CONDUIT STUBBED TO ABOVE CEILING.



MARK	DATE	DESCRIPTION

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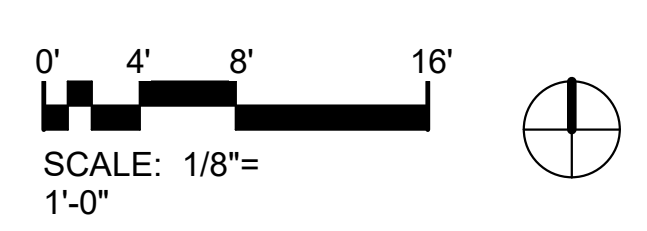
CHRISTOPHER A. PHILIPP
PE-022262

ELECTRICAL FOURTH FLOOR NEW WORK PLAN

DATE: 3 OCTOBER, 2022
BSALS PROJECT NO. 14110005

E101

1 ELECTRICAL FOURTH FLOOR NEW WORK PLAN
1/8" = 1'-0"



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 User: jeanmuller
 Status: Approved

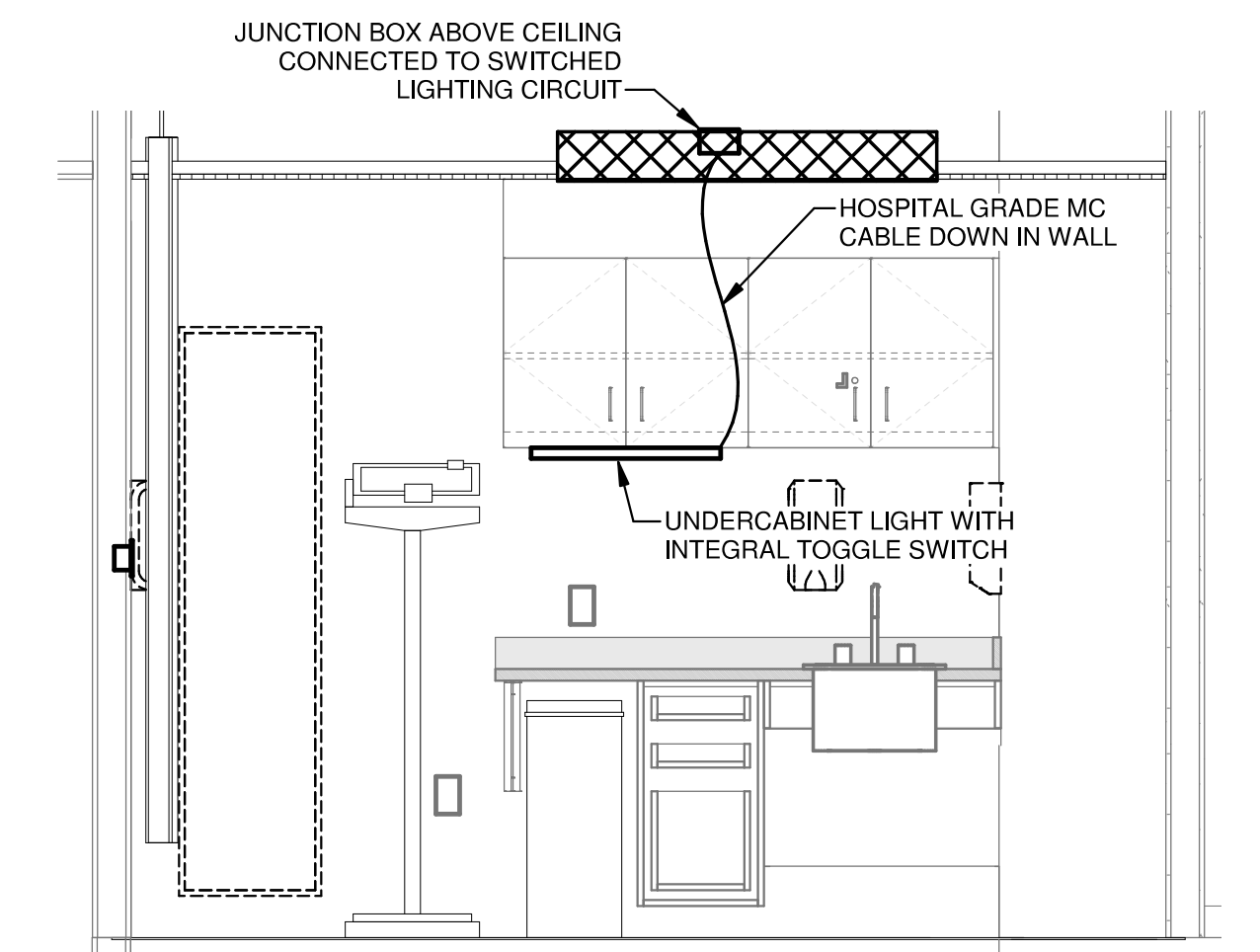
PLAN MARK	DESCRIPTION	MANUFACTURER	REMARKS	# OF LAMPS	LAMP TYPE	LED LUMENS	DRIVER	WATTAGE	VOLTAGE
L1	2'X2', 3-1/4" TALL, RECESSED LED LUMINAIRE, EXTRUDED ALUMINUM HOUSING WITH INJECTED MOLDED COMPOSITE END PLATES, GRID-LOCK FEATURE, HIGH OPTICAL GRADE ACRYLIC LENS, HIGH REFLECTANCE BAKED WHITE ENAMEL FINISH, DAMP LOCATION LISTED.	METALUX ENCOUNTER 22EN-LD2-34-UNV-L835-CD-1 OR APPROVED EQUAL		1	LED	3471	DRIVER, DIM	28.5	277 V
L2	2'X4', 3-1/4" TALL, RECESSED LED LUMINAIRE, EXTRUDED ALUMINUM HOUSING WITH INJECTED MOLDED COMPOSITE END PLATES, GRID-LOCK FEATURE, HIGH OPTICAL GRADE ACRYLIC LENS, HIGH REFLECTANCE BAKED WHITE ENAMEL FINISH, DAMP LOCATION LISTED.	METALUX ENCOUNTER 24EN-LD2-45-UNV-L835-CD-1 OR APPROVED EQUAL		1	LED	4656	DRIVER, DIM	38.0	277 V
L3	18"W X 0.75"H X 4.37" DEEP LOW PROFILE LED UNDERCABINET TASK LIGHT, ALUMINUM HOUSING, WHITE FINISH, SELECTABLE CCT AND ROCKER SWITCH.	HALO HU308SC18P		1	LED	440	DRIVER	8.2	277 V
L4	2'-2" LONG, 4" TALL WALL MOUNT VANITY LED DIRECT LIGHT FIXTURE, ALUMINUM HOUSING CONSISTING OF HIGH REFLECTANCE WHITE PLYESTER POWER COAT PAINT WITH SATIN WHITE DIFFUSER.	NEO-RAY DEFIN 4 S124DW-C-1199D-80-35-2-1-2-DD-F-W		1	LED	2390	DRIVER, DIM	15.9	277 V
L5	4" ROUND, 5-1/2" TALL LED DOWNLIGHT, MEDIUM BEAM DISTRIBUTION, SPUN ALUMINUM REFLECTOR, DIE CAST ALUMINUM 1-1/2" DEEP COLLAR, ALUMINUM HEAT SINK, WHITE POLYMER TRIM RING, SPECULAR CLEAR FINISH.	PORTFOLIO LD4B-20-D010-EU4B-1020-80-35-4LB-M-0-LI OR APPROVED EQUAL		1	LED	2000	DRIVER, DIM	21.2	277 V
L6	DECORATIVE SEMI-RECESSED DOWNLIGHT, 6.6" DIAMETER, OPAL GLASS SHADE	DELRAY YL4742-W35-D-277		1	LED	2000	DRIVER, DIM	22	277 V
X1	CEILING MOUNT, DIE CAST AND EXTRUDED ALUMINUM HOUSING WITH BRUSHED ALUMINUM FINISH, HIGH IMPACT ACRYLIC CLEAR PANEL, EDGE LIT WITH RED LETTERS, SINGLE SIDED, DIRECTIONAL CHEVRONS PER PLANS.	SURE-LITES EUX6-1-R		1	LED	--	DRIVER	1.1	277 V

GENERAL NOTES

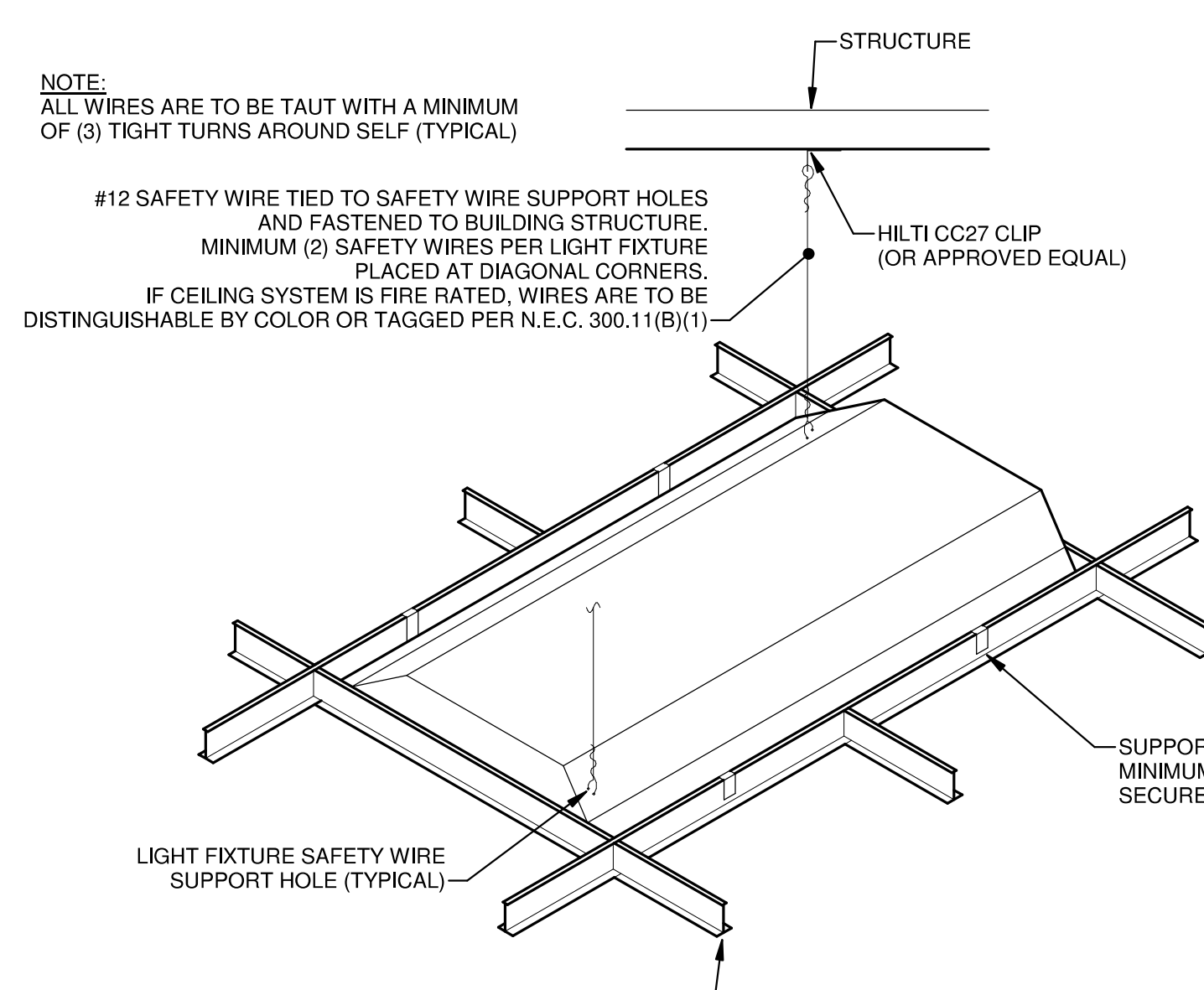
- REFER TO SHEET E000 FOR ELECTRICAL GENERAL NOTES.
- ORIENT LUMINAIRE CENTER DIFFUSER RAILS PARALLEL TO WALLS WHERE INSTALLED IN CORRIDORS. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR ADDITIONAL INFORMATION.
- IN AREAS WHERE DEMOLITION WORK IS NOT SCHEDULED, DISCONNECT, REMOVE AND SALVAGE EXISTING CEILING MOUNTED DEVICES AND FIXTURES AS REQUIRED TO COMPLETE THE ABOVE CEILING WORK FOR ALL TRADES. UPON COMPLETION OF CONSTRUCTION, REINSTALL EXISTING CEILING MOUNTED DEVICES AND FIXTURES IN ORIGINAL LOCATIONS. DEVICES AND FIXTURES SHALL OPERATE AS THEY DID PRIOR TO CONSTRUCTION.
- IN GENERAL, THE USE OF MC CABLE IS NOT PERMITTED ON THIS PROJECT. THE ONE EXCEPTION TO THAT IS FOR THE VERTICAL DROP AND FINAL CONNECTION TO THE UNDER CABINET LIGHT FIXTURES. CONTRACTOR SHALL PROVIDE A JUNCTION BOX ABOVE THE CEILING IN PROXIMITY TO THE WALL(S). THE CABINETS ARE MOUNTED ON AND TRANSITION THE VERTICAL DROP TO THE UNDER CABINET LIGHT FIXTURE TO HOSPITAL GRADE MC CABLE, INCLUSIVE OF FINAL TERMINATION.
- NEW 277V LIGHT FIXTURES SHALL BE WIRED TO EXISTING LIGHTING CIRCUITS FED BY PANEL N41 THAT PREVIOUSLY SERVED FIXTURES IN THE DEMOLISHED AREAS.
- ALL NEW AND EXISTING EMERGENCY EXIT & EGRESS LIGHTING FIXTURES SHALL BE CONNECTED TO THE NEW EMERGENCY LIGHTING INVERTER CIRCUIT. SWITCHED FIXTURES SHALL BE CIRCUITED THRU EMERGENCY LIGHTING RELAYS EQUAL TO WATTSTOPPER ELCU-200.

KEYED NOTES

- INSTALL NEW EMERGENCY LIGHTING INVERTER, MEYERS EMERGENCY POWER SYSTEMS MODEL 6-EM-2-S WITH 1.8 KW BATTERY CAPACITY. CONNECT TO SPARE 20A 277V BREAKER IN PANEL N41. PROVIDE NEW EMERGENCY CIRCUIT WIRING TO ALL EXISTING AND NEW EXIT SIGNS AND FIXTURES INDICATED AS LIFE SAFETY EMERGENCY EGRESS FIXTURES. APPROXIMATE LOAD OF ALL EMERGENCY FIXTURES IS 1300 WATTS, 4.7 AMPS @ 277V.
- INSTALL NEW EMERGENCY LIGHTING INVERTER CIRCUIT AS REQUIRED AND REWIRE EXISTING LIFE SAFETY EXIT OR EGRESS LIGHTING FIXTURE. PROVIDE EMERGENCY POWER RELAYS EQUAL TO WATTSTOPPER ELCU-200 TO OVERRIDE SWITCHED NORMAL POWER CIRCUITS WITH INVERTER POWER. COORDINATE TIMING OF REWIRING FIXTURES WITH OWNER INSTALLED REPLACEMENT FIXTURES OUTSIDE OF WORK SCOPE AREA.
- PROVIDE NEW LIGHT SWITCH AT NEW/RELOCATED DOOR OPENING. RECONNECT TO EXISTING FIXTURES AND CIRCUIT IN THE ROOM.
- CIRCUIT NEW CORRIDOR LIGHTING FIXTURES TO EXISTING SWITCHED CORRIDOR CIRCUIT AND MAIN LIGHTING SWITCH IN CORRIDOR C4110.
- IN ULTRASOUND & NST ROOMS PROVIDE 3-WAY DIMMING SWITCHES AT DOOR ENTRANCE AND AT EXAM TABLE. COORDINATE EXAM TABLE SWITCH LOCATION WITH CASEWORK AND OWNER'S FURNITURE LAYOUT.

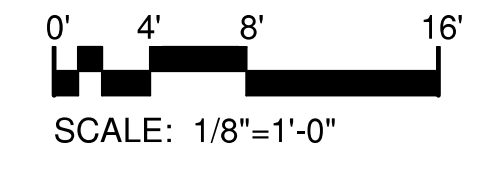


3 TYPICAL WIRING TO UNDERCABINET LIGHTS
1/2" = 1'-0"



2 LIGHT FIXTURE SUPPORT DETAIL
NOT TO SCALE

1 LIGHTING FOURTH FLOOR - NEW WORK PLAN
1/8" = 1'-0"



BSA
BSA LifeStructures
12645 Olive Blvd, Suite 227
Creve Coeur, MO 63141
ph 314.754.6306 fx 314.754.4452
Architectural Registration Number - 2003010309

Ross & Baruzzini
MEP ENGINEERING:
Ross & Baruzzini
6 S 06 Orchard Ave
St. Louis, MO 63119
ph 314.918.8383 www.rossbar.com
Missouri State Certificate of Authority #000148

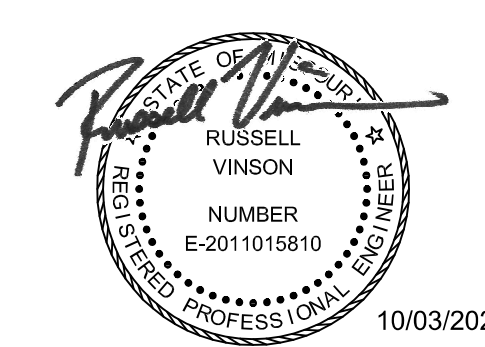
Timberlake Engineering
A Custom Engineering Company
LIGHTING ENGINEERING:
Timberlake Engineering
912 Oak Highway 63 South
Columbia, MO 65201
ph 573.875.4395 ext 209 www.customenr.com
Missouri State Certificate of Authority #000239

Health Care
MU PROJECT NO. - CP221944
**UNIVERSITY PHYSICIANS
MEDICAL BUILDING
(UPMB) - 4TH FLOOR -
MOA CLINIC RENOVATION**
1020 Hitt St, Columbia, MO 65212

BID SET

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I hereby certify these drawings and/or specifications have been prepared by me, or under my supervision. I further certify that to the best of my knowledge these drawings and/or specifications are as required by and in compliance with the Building Codes of the University of Missouri.



Russell A. Vinson
PE-2011015810
**LIGHTING FOURTH FLOOR
NEW WORK PLAN**

DATE: 3 OCTOBER 2022
BSALS PROJECT NO.: 14110095

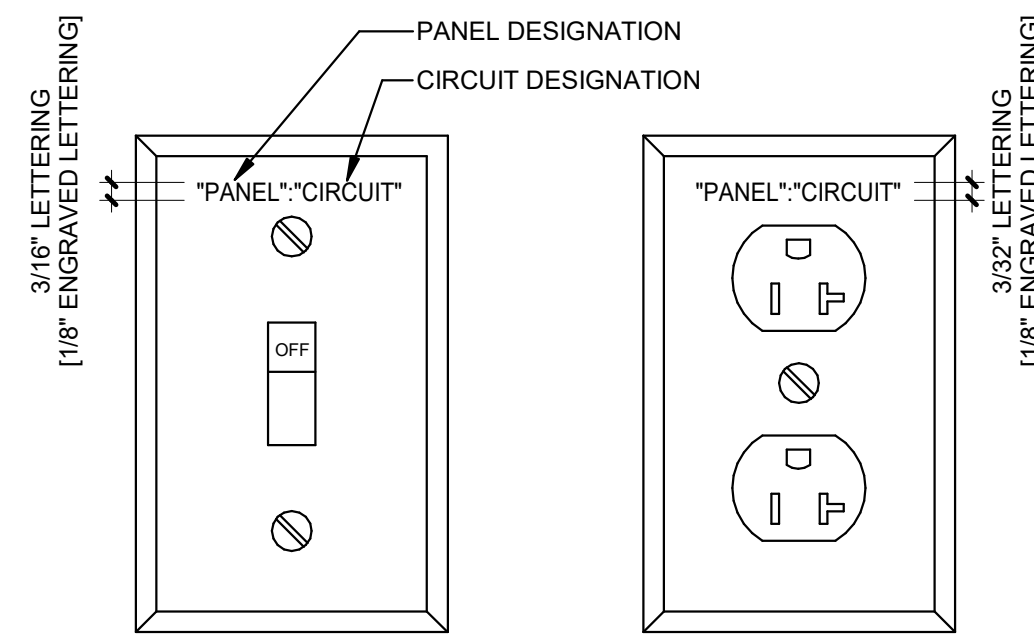
E102
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9/29/2022 8:45:50 AM
 BSA 32014110095 - UPMB Renovation CD 2204 - MISC UPMB 4th Floor Renovation - Lighting.rvt
 DESIGNED BY: [Name]
 DRAWN BY: [Name]
 APPROVED BY: [Name]

CONTRACTOR RESPONSIBILITY
OWNER RESPONSIBILITY

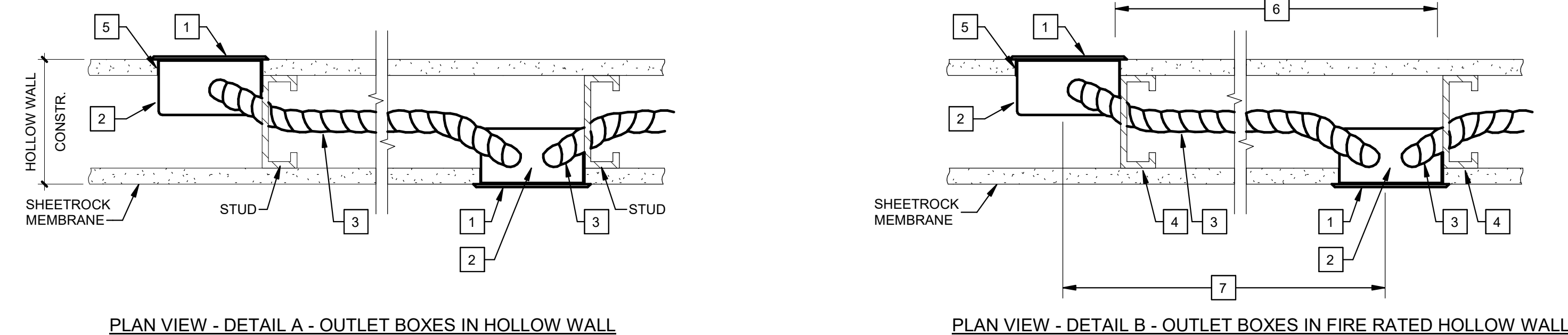
LEGEND:
F: FURNISHED
I: INSTALLED

GENERAL LOW VOLTAGE ITEMS		
LOW VOLTAGE RACKS	F,I	
RACK CABLE MANAGEMENT	F,I	
CONDUIT SLEEVES		F,I
GROUNDING AND BONDING (GROUND BARS, CONDUCTORS, TERMINATIONS, ETC.)		F,I
CABLE PATHWAYS, CABLE TRAY, LADDER TRAY		F,I
LADDER RACK		F,I
FIRESTOPPING FOR LOW VOLTAGE SYSTEMS		F,I
FIRE RATED PATHWAYS		F,I
EQUIPMENT, CABLE, AND OUTLET FACEPLATE LABELING	F	I
CORE DRILLING FLOOR/WALL SLEEVES		F,I
TELECOMMUNICATIONS SYSTEMS		
FIBER SERVICE AND HORIZONTAL DISTRIBUTION FROM HOSPITAL	F,I	
FIBER SWITCH AND TERMINATIONS	F,I	
EQUIPMENT (SERVERS, SWITCHES, PDU, ETC.)	F,I	
TELECOM ROOM LADDER RACK	F,I	
PATCH PANELS	F,I	
PATCH CABLES	F,I	
HORIZONTAL CABLING AND TERMINATIONS	F	I
BACKBOXES AND CONDUITS		F,I
OUTLET FACEPLATES AND TERMINATIONS		F,I
WIRELESS ACCESS POINTS	F,I	
COMMUNITY ACCESS TELEVISION SYSTEM (CATV)		
CABLE DISTRIBUTION (BETWEEN TELECOM ROOMS)	F,I	
AMPLIFIERS AND SPLITTERS	F,I	
EQUIPMENT: HEAD-END ELECTRONICS	F,I	
HORIZONTAL CABLING AND TERMINATIONS	F	I
BACKBOXES AND CONDUITS		F,I
OUTLET FACEPLATES AND TERMINATIONS		F,I
ACCESS CONTROL		
HEAD-END EQUIPMENT	F	I
BACKBOXES AND CONDUITS		F,I
DEVICES (CARD READERS, KEYPADS, ETC.)	F,I	
INTERCONNECTION WIRING AND TERMINATIONS	F	I
VIDEO SURVEILLANCE		
HEAD-END EQUIPMENT (HARDWARE, SOFTWARE, DISPLAYS, ETC.)	F	I
CAMERAS AND SUPPORTS	F,I	
HORIZONTAL WIRING AND TERMINATIONS	F	I
BACKBOXES AND CONDUITS		F,I
NURSE CALL		
HEAD-END EQUIPMENT, UPS, AND PROGRAMMING	F	I
HORIZONTAL CABLING AND TERMINATIONS	F	I
BACKBOXES AND CONDUITS		F,I
DEVICES	F,I	
INTERCONNECTION WIRING AND TERMINATIONS TO PERIPHERALS	F,I	
PUBLIC ADDRESS SYSTEM		
HEAD-END EQUIPMENT	F,I	
HORIZONTAL CABLING AND TERMINATIONS	F	I
BACKBOXES AND CONDUITS		F,I
SPEAKERS	F,I	
SOUND MASKING SYSTEM - ALTERNATE #/		
SYSTEM CONTROLLER		F,I
HORIZONTAL CABLING AND TERMINATIONS		F,I
MOUNTING COMPONENTS AND CONDUITS		F,I
SPEAKERS/EMITTERS		F,I



GENERAL NOTE:
1 TYPICAL OF ALL SWITCH AND RECEPTACLE DEVICE PLATES.
2 REFER TO SPECIFICATION SECTION 260553 IDENTIFICATION FOR ELECTRICAL SYSTEMS FOR ADDITIONAL REQUIREMENTS.

2 ELECTRICAL DEVICE PLATE LABELING (ENGRAVING)
NO SCALE



PLAN VIEW - DETAIL A - OUTLET BOXES IN HOLLOW WALL

PLAN VIEW - DETAIL B - OUTLET BOXES IN FIRE RATED HOLLOW WALL

GENERAL NOTES:
1 COORDINATE LOCATIONS OF FIRE RATE WALLS AND THICKNESS OF ALL WALLS WITH G.C. AND ARCHITECTURAL DRAWINGS.
2 DETAIL A IS APPLICABLE TO ALL HOLLOW WALLS ON THIS PROJECT. DETAIL B IS APPLICABLE TO ALL FIRE RATED HOLLOW WALLS ON THIS PROJECT.

KEYED NOTES:
1 PLATE OR COVER ON FOR OUTLET, BOX OR WIREWAY.
2 NON-FIRE RATED WALL (DETAIL A): OUTLET, SWITCH, RECEPTACLE, TEL., DATA, ETC. OR OTHER BOX SPECIFIED.
FIRE RATED WALL (DETAIL B): SAME AS ABOVE EXCEPT BOX MUST BE STEEL WITH NOMINAL AREA NOT TO EXCEED 16 SQ. IN.
3 RACEWAY AS ALLOWED BY SPECIFICATIONS.
4 METAL STUD (NO HOLES). IF STUDS HAVE HOLES, BOXES MAY BE LESS THAN 24" APART AND FIRE RATED PUTTY PADS USED ON BOTH BOXES.
5 BOXES SHALL BE SET BACK FROM FINISHED SURFACE NO MORE THAN 1/4" IN ACCORD WITH NEC. BOXES SHALL BE SET AND THE WALL SHALL BE REPAIRED AS REQUIRED SO THAT THE SPACE BETWEEN THE WALL AND THE EDGE OF THE BOX SHALL BE NO GREATER THAN 1/8" IN ACCORD WITH NEC. FIRE RATED WALLS MAY HAVE MORE THAN ONE LAYER OF SHEETROCK IN ORDER TO OBTAIN FIRE RATING. COORDINATE WITH G.C. AND ARCHITECTURAL DRAWINGS PRIOR TO SETTING BOXES.
6 TYPICAL 24" STUD SPACING. COORDINATE WITH G.C.
7 BOXES IN OPPOSITE SIDES OF A FIRE RATED HOLLOW WALL SHALL BE SEPARATED BY A MINIMUM OF 24" AND THERE SHALL BE A STUD BETWEEN THE 2 BOXES. SEE KEYED NOTE 4 ON THIS SHEET.

3 OUTLETS IN HOLLOW WALLS-TYPICAL DETAILS
NO SCALE

NOTES:
1. THE PARTY RESPONSIBLE FOR INSTALLING THE RESPECTIVE EQUIPMENT SHALL ALSO BE RESPONSIBLE FOR CONNECTING, PROGRAMMING AND TESTING THE SYSTEM, UNLESS OTHERWISE SPECIFICALLY NOTED. CONTRACTOR TO COORDINATED TESTING WITH ALL THIRD PARTY VENDORS.
2. ITEMS INDICATED AS FURNISHED AND/OR INSTALLED BY THE OWNER MAY BE PROVIDED BY A THIRD-PARTY VENDOR. CONTRACTOR IS REQUIRED TO COORDINATE ALL INSTALLATIONS.
3. ALL LINE VOLTAGE RECEPTACLE AND HARD-WIRED CONNECTIONS WILL BE PROVIDED BY THE CONTRACTOR.
4. FIRESTOPPING TO BE PROVIDED BY A SINGLE ENTITY. REFER TO DIVISION 07 SPECIFICATIONS FOR REQUIREMENTS.

1 LOW VOLTAGE RESPONSIBILITY MATRIX
NO SCALE

MARK	DATE	DESCRIPTION
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I hereby certify these drawings and/or specifications have been prepared by me, or under my supervision. I further certify that to the best of my knowledge these drawings and/or specifications are as required by and in compliance with the Building Codes of the University of Missouri.



CHRISTOPHER A. PHILIPP
PE-022252

ELECTRICAL DETAILS AND SCHEDULES

Branch Panel: N4B-1&2
Location: ELEC 4202
Supply From: MCB
Mains Type: MCB
Mains Rating: 225 A
MCB Rating: 150 A
Volts: 208Y/120V
Phases: 3
Wires: 4
A.I.C. Rating: 10k
Mains Type: MCB
Mains Rating: 225 A
MCB Rating: 150 A

Branch Panel: N4A-1&2
Location: ELEC 4202
Supply From: Surface
Mains Type: Surface
Mains Rating: 225 A
MCB Rating: 150 A
Volts: 208Y/120V
Phases: 3
Wires: 4
A.I.C. Rating: 10k
Mains Type: MCB
Mains Rating: 225 A
MCB Rating: 150 A

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CHRISTOPHER A. PHILIPP
PE-022262

ELECTRICAL PANEL
SCHEDULES

DATE 3 OCTOBER, 2022
BSALS PROJECT NO. 1411005

E501

9/17/2022 2:15:54 PM
BSA 32611415005 - UPMB Renovation 011413.000-MCAC UPMB 4th Floor Renovation-P21_jeanluc@bsa.com