

# UNIVERSITY PHYSICIANS MEDICAL BUILDING -3RD FLOOR RENOVATION

# MU PROJECT NO. - CP221943

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









MEP ENGINEERING: Introba Inc. 6 S Old Orchard Ave St. Louis, MO 63119 ph 314.918.8383 www.introba.com Missouri State Certificate of Authority #2023008136 Timberlake

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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#### 00- GENERAL G000 COVER SHEET

G200 CODE SUMMARY & LIFE SAFETY PLAN

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V001 VENDOR DRAWINGS

MD201 M001 M100 M101 M201 M500 M600	IANICAL MECHANICAL SYMBOLS & ABBREVIATIONS THIRD FLOOR DUCTWORK PLAN - DEMOLITION THIRD FLOOR PIPING PLAN - DEMOLITION THIRD FLOOR VAV ZONING PLAN ALTERNATE #1 - GROUND FLOOR PLAN - DEMOLITION & NEW WORK THIRD FLOOR DUCTOWRK PLAN - NEW WORK THIRD FLOOR PIPING PLAN - NEW WORK DETAILS SCHEDULES TEMPERATURE CONTROLS
ED101 ED102 E100 E101 E102	TRICAL ELECTRICAL SYMBOLS AND ABBREVIATIONS THIRD FLOOR POWER AND SYSTEMS PLAN - DEMOLITION THIRD FLOOR LIGHTING PLAN - DEMOLITION ALTERNATE #1 - GROUND FLOOR POWER & SYSTEMS PLAN - DEMO AND NEW WORK THIRD FLOOR POWER AND SYSTEMS PLAN - NEW WORK THIRD FLOOR LIGHTING PLAN - NEW WORK ALTERNATE #1 - GROUND FLOOR LIGHTING PLANS ELECTRICAL DETAILS & SCHEDULES ELECTRICAL PANEL SCHEDULES
	<i>I</i> BING PLUMBING SYMBOLS AND ABBREVIATIONS PLUMBING SECOND FLOOR DEMOLITION PLAN PLUMBING THIRD FLOOR DEMOLITION PLAN PLUMBING SECOND FLOOR PLAN PLUMBING THIRD FLOOR PLAN ALTERNATE #1 - PLUMBING GROUND FLOOR PLANS PLUMBING DETAILS AND SCHEDULES
FP000	PROTECTION FIRE PROTECTION SYMBOLS, ABBREVS, AND DETAILS FIRE PROTECTION THIRD FLOOR DEMOLITION PLAN FIRE PROTECTION THIRD FLOOR PLAN ALTERNATE #1 - FIRE PROTECTION GROUND FLOOR PLANS

DEFERRED SUBMITTALS FIRE ALARM

FIRE SPRINKLER SEISMIC



14110010

BSALS PROJECT NO.

DATE

COVER SHEET

# BID SET 03 APRIL 2023







**41100** Designe Author

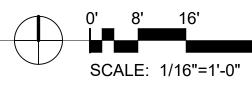
ALTERNATE #1 - BASEMENT LIFE SAFETY 2 PLAN 1/16" = 1'-0"





1 <u>THIRD FLOOR PLAN</u> 1/16" = 1'-0"

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



PLUMBING F	(TABLE 2902.1)						
OCCUPANCY TYPE: BUS	OCCUPANCY TYPE: BUSINESS						
	REQUIREMENT	NUMBER REQUIRED					
1ST: 19,000 SQFT/150 =	3RD FLOOR						
WATER CLOSETS	1 PER 25 FOR THE FIRST 50 AND 1 PER 50 FOR THE REMAINDER EXCEEDING 50	4					
LAVATORIES	1 PER 40 FOR THE FIRST 80 AND 1 PER 80 FOR THE REMAINDER EXCEEDING 80	3					
DRINKING FOUNTAINS	1 PER 100	2					
SERVICE SINK	1 SERVICE SINK	1					

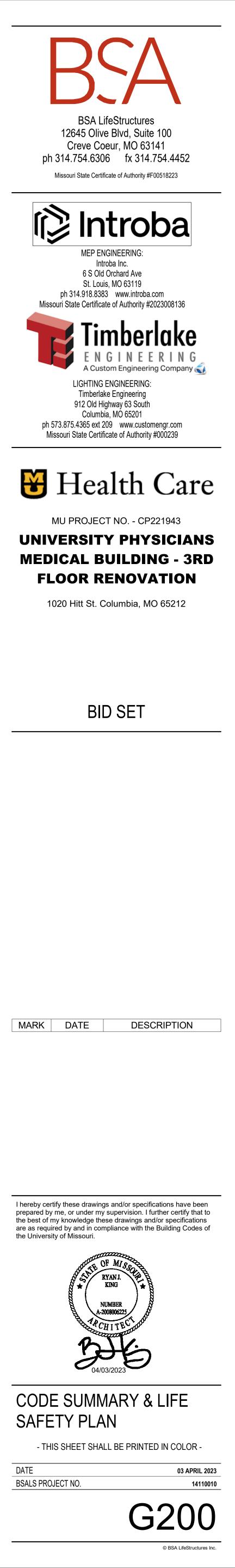
CODE SUMMARY	
PROJECT INFORMATION:	
NAME: ADDRESS:	UPMB 3RD FLOOR RENOVATION 1020 HITT ST.
PROJECT DESCRIPTION:	COLUMBIA, MO 65212 INTERIOR RENOVATION OF THE 3RD FLOOR OF UPMB, EXISTING FLOOR IS 19,000 SF.
	FULL RENOVATION OF APPROXIMATELY 6,419 SF.
	EXTENSIVE MODIFICATIONS OF APPROXIMATELY 601 SF.
	APPROXIMATELY 37% OF THE FLOOR WILL BE RENOVATED.
OWNER:	UNIVERSITY OF MISSOURI - UNIVERSITY PHYSICIANS MEDICAL BUILDING, FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI
DESIGN PROFESSIONAL:	
ARCHITECT: ADDRESS:	BSA LIFESTRUCTURES 12645 OLIVE BLVD. SUITE 227 CREVE COEUR, MO 63141
CONTACT:	ENKU ASSEFA 913-748-8813, EXT 6017 EASSEFA@BSALIFESTRUCTURES.COM
CODE INFORMATION:	
2021 INTERNATIONAL E	BUILDING CODE EXISTING BUILDING CODE (FOR LEVEL 1
LEVEL 2 ALTERAT	IONS ONLY WITH PREAPPROVAL FROM AHJ)
	MECHANICAL CODE
	SSIBLE NAD USABLE BUILDINGS AND
	RIC CODE/ NFPA 70 ARD FOR EMERGENCY AND STANDBY
POWER SYSTEMS 2012 NFPA 101 LIFE SA	
	RD FOR HEALTH CARE FACILITIES LATION OF AIR CONDITIONING NAD
VENTILATING SYS 2017 NFPA 75 STANDA	STEMS RD FOR THE FIRE PROTECTION OF
2019 NFPA 72 NATIONA	CHNOLOGY EQUIPMENT
WELDING, CUTTIN	ARD FOR FIRE PREVENTION DURING NG, AND OTHER HOT WORK ATION OF FIRE SPRINKLER SYSTEMS
2019 ASHRAE 62.1 VEN	TILATION FOR ACCEPTABLE INDOOR AIR
	TES FOR SPACES NOT FOUND IN ASHRAE R THE HIGHER OF THE TWO AIR CHANGE
RATES PERSCRIE	
2017 ASHRAE 170 VEN	TILATION OF HEALTH CARE FACILITIES ETY CODE FOR ELEVATORS AND
ESCALATORS	I DISABILITIES ACT - STANDARDS FOR
ACCESSIBLE DES	
BUILDING DATA:	
OCCUPANCY: CONSTRUCTION TYPE:	B I-B
ALLOWABLE AREA: ALLOWABLE STORIES:	UNLIMITED(19,000 SF EXISTING) 12 STORIES(4 STORIES EXISTING)
ALLOWABLE HEIGHT:	180 ft(52 ft EXISTING)
COMMON PATH OF EGREES TRAVEL B OCCUPANCY EXIT ACCESS TRAVEL DISTANCE:	100 FT
B OCCUPANCY	300 FT
EXIT CAPACITY: B OCCUPANCY	STAIRWAYS = 38 INCHES
CORRIDORS:	OTHER = 25 INCHES
MINIMUM WIDTH: DEAD END:	44" 50'
FIRE EXTINGUISHERS: MAXIMUM TRAVEL DISTAN	CE: 75'
LIFE-SAFETY FEATURES: SPRINKLER SYSTEM THRO	UGH-OUT
SMOKE DETECTORS & FIRI EMERGENCY LIGHTS- INVE EXIT LIGHTS- INVERTER BA	E ALARM SYSTEM RTER BACKUP
FIRE RESISTANCE RATING REQUIRE STRUCTURAL FRAME:	<u>:MENTS:</u> 2 HOURS - EXISTING
FLOOR CONSTRUCTION: ROOF CONSTRUCTION:	2 HOURS - EXISTING 0 HOURS - EXISTING
SHAFT ENCLOSURE: STAIR CONSTRUCTION:	2 HOURS - EXISTING 2 HOURS - EXISTING
LIFE-SAFETY SYM	BOLS LEGEND
<b></b>	COLUMN LINE
ROOM -	ROOM NAME DESIGNATION
(#) -	PLAN NOTE DESIGNATION
▲	EXIT SYMBOL
EXIT	
	FIRE EXTINGUISHER

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

REFER TO A000 FOR GENERAL NOTES

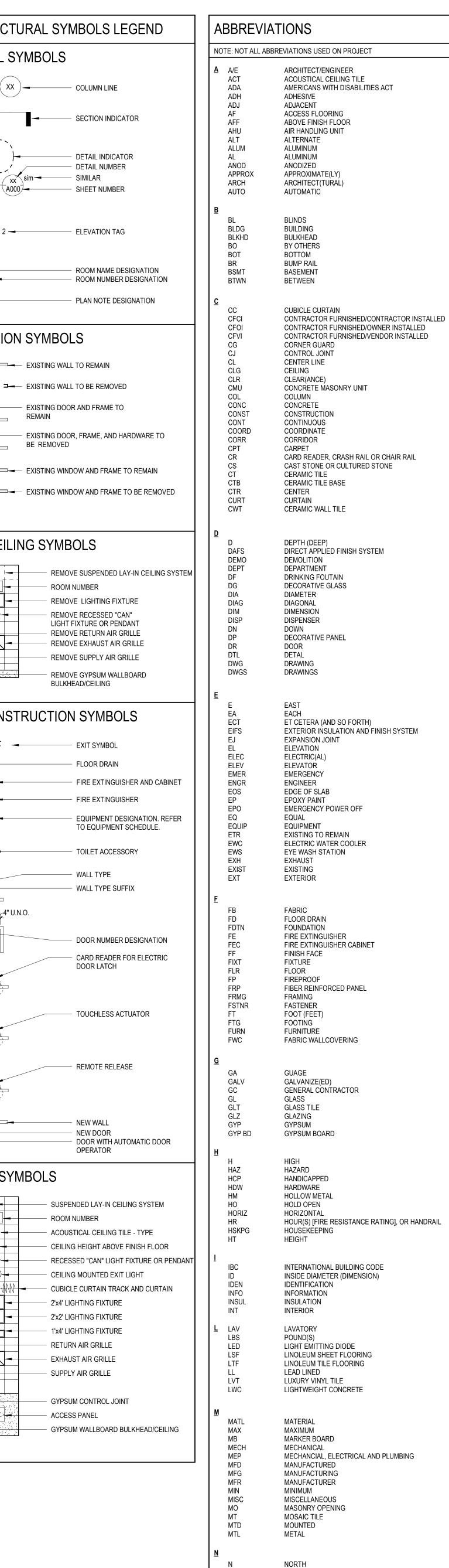
KEYNOTE LEGEND

SPECIAL INSPECTIONS INSPECTION TASK NOTES/COMMENTS CHECK IF REQUIRED CONTINUOUS PERIODIC STANDARD  $\boxtimes$  $\square$ TESTING TO BE CONDUCTED BY AN APPROVED AGENCY ASTM E2174 PENETRATION FIRESTOPS INSTALLATION OF MECHANICAL AND ELECTRICAL EQUIPMENT, INCLUDING DUCT WORK, PIPING SYSTEMS, AND THEIR STRUCTURAL SUPPORTS, WHERE AUTOMATIC FIRE SPRINKLER SYSTEMS ARE INSTALLED.  $\boxtimes$ IBC 2021 1705.13.6  $\boxtimes$ 



GE	NERAL DEMOLITION NOTES	GENERAL REFLECTED CEILING NOTES	ARCHITE
С. Е. Б.	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. REMOVE ALL EXISTING WALL MOUNTED ITEMS WITHIN THE PROJECT LIMIT 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 ARE TO REMAIN, PATCH WALLS AS REQUIRED TO RECEIVE NEW FINISHES AND/OR SURFACES. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR ANY ADDITIONAL DEMOLITION INFORMATION. REMOVE EXISTING CEILING FINISHES, INCLUDING BULKHEADS, AS APPLICABLE IN ALL AREAS WITHIN THE PROJECT LIMITS THAT ARE SCHEDULED TO RECEIVE NEW CEILINGS. REMOVE DRYWALL AS REQUIRED FOR NEW ELECTRICAL AND DATA BOXES PER MEP. MAINTAIN ALL EXISTING FIREPROOFING. AS REQUIRED BY MEP, TEMPORARY EXISTING CEILNIG REMOVAL MAY OCCUR. COORDINATE AND MINIMZE EXTENT WITH SCOPE OF MEP DRAWINGS. ALL CEILINGS EXISTING CONDITIONS TO BE MAINTAINED. PATCH/PAINT GYP. BD. CEILINGS AS REQUIRED,	<ul> <li>A. ALL LAY-IN ACOUSTICAL CEILINGS SHALL BE INSTALLED AT 8-0" ABOVE FINISH FLOOR, UNLESS INDICATED OTHERWISE.</li> <li>B. ALL LAY-IN ACOUSTICAL TILE SHALL BE TYPE ACT1, UNLESS OTHERWISE INDICATED.</li> <li>C. ALL GYPSUM BOARD BULKHEADS SHALL BE INSTALLED AT 7'-10" ABOVE FINISH FLOOR, UNLESS NOTED OTHERWISE.</li> <li>D. REFER TO A800 FOR TYPICAL BULKHEAD DETAIL.</li> <li>E. REFER TO A800 FOR TYPICAL CUBICAL CURTAIN TRACK DETAIL.</li> <li>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.</li> <li>G. FIRE RATED WALLS SHALL EXTEND FROM FLOOR TO STRUCTURE ABOVE.</li> <li>H. ALL CEILINGS SHALL BE CENTERED WITHIN THE ROOM UNLESS INDICATED OTHERWISE.</li> <li>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.</li> </ul>	
1.	REPLACE DAMAGED TILES & GRID AS REQUIRED. PROTECT ALL LIGHT FIXTURES AND DIFFUSERS. PROVIDE FIRESTOPPING INFILL OF HOLES AND OPENINGS LEFT AFTER DEMOLITION TO MAINTAIN FIRE RATINGS AND INTEGRITY OF FLOOR-CEILING ASSEMBLIES. ALL THROUGH SLAB PENTRATIONS TO BE FIRESTOPPED FROM ABOVE.	A. REFER TO FLOOR PLANS AND THE EQUIPMENT SCHEDULE FOR EQUIPMENT. COORDINATE CONNECTIONS. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL	?
GEI	NERAL DIMENSION NOTES	INFORMATION. B. REFER TO PLUMBING DRAWINGS FOR LAVATORIES AND SINK TYPES. C. ALL DIMENSIONS ARE TAKEN TO THE FACE OF FINISHED MATERIAL	(#)-
А. В.	ALL DIMENSIONS ARE TO FACE OF GYPSUM BOARD, FACE OF MASONRY OR CONCRETE, OR TO FACE OF EXISTING WALL FINISH UNLESS NOTED OTHERWISE. INSTALL CONTROL JOINTS IN GYPSUM BOARD WALLS, CEILINGS AND BULKHEADS AS INDICATED ON THE DIMENSION PLANS,	<ul> <li>UNLESS OTHERWISE INDICATED.</li> <li>D. FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OF CABINETRY.</li> <li>E. CONSTRUCT GYPSUM BOARD BULKHEADS ABOVE UPPER CABINETRY TO BE 1" DEEPER AND LONGER THAN CABINETRY BELOW UNLESS INDICATED OTHERWISE.</li> <li>F. COORDINATE ALL WALL DEVICES TO AVOID CONFLICT WITH CAREWORK AND COUNTED TO DE</li> </ul>	
C. D.	REFLECTED CEILING PLANS, INTERIOR ELEVATIONS AND AS INDICATED IN THE SPECIFICATIONS. CONSULT ARCHITECT FOR LOCATIONS IF NOT INDICATED. THE DIMENSION PLANS ARE INTENDED TO SHOW DIMENSIONS, WALL RATINGS, WALL TYPES AND DOOR AND WINDOW LOCATIONS ONLY. PROVIDE 18" MINIMUM ADA REQUIRED CLEARANCE ADJACENT TO STRIKE OF DOOR ON SWING SIDE OF DOOR. PROVIDE 12" MINIMUM ON OPPOSITE SIDE OF DOOR.	<ul> <li>CASEWORK AND COUNTERTOPS.</li> <li>G. COORDINATE SUPPORT BRACKET LOCATIONS WITH UNDER COUNTER EQUIPMENT INDICATED ELSEWHERE IN CONTRACT DOCUMENTS.</li> <li>H. ALL BASE CABINETS SHALL BE 2'-0" DEEP UNLESS NOTED OTHERWISE.</li> <li>I. ALL CASEWORK SHALL BE FINISHED IN PLASTIC LAMINATE UNLESS NOTED OTHERWISE.</li> <li>J. PROVIDE 1" MINIMUM FILLER PANELS AT ALL LOCATIONS WHERE CABINETRY ABUTS A WALL.</li> <li>K. PROVIDE A 4" HIGH INTEGRAL BACK SPLASH ON ALL COUNTERS WITH RECESSED SINKS. INSTALL SIDE/END SPLASHES WHERE THESE</li> </ul>	
	REFER TO MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR SIZES AND LOCATIONS OF EQUIPMENT PADS. COORDINATE SLAB CONSTRUCTION WITH MECHANICAL AND STRUCTURAL. WALLS NOT FULLY EXTENDED TO DECK OR ROOF ABOVE SHALL BE DIAGONALLY BRACED AT 10'-0" MAXIMUM ON CENTER FROM TOP OF WALL TO DECK OR ROOF STRUCTURE ABOVE. PROVIDE FULL HEIGHT STRUCTURAL STUDS TO THE STRUCTURE ABOVE AT ALL CORNERS, AT DOOR AND BORROWED LIGHT FRAMES, AND JAMBS.	<ul> <li>RECESSED SINKS. INSTALL SIDE/END SPLASHES WHERE THESE COUNTERS ABUT A WALL.</li> <li>PROVIDE ADJUSTABLE SHELVING WITHIN ALL WALL AND BASE CABINETRY AS SHOWN BY DASHED LINE.</li> <li>M. BOTTOM OF UPPER CABINETS TO BE FINISHED TO MATCH VERTICAL FACES.</li> <li>N. PROVIDE 12" CLEAR INTERIOR DIMENSION ON ALL UPPER WALL CABINETS UNLESS NOTED OTHERWISE.</li> <li>O. ALL CABINET/CASEWORK PULLS TO BE U-SHAPED WIRE PULLS, 4" CENTERS, UNLESS NOTED OTHERWISE.</li> </ul>	
ł.	REFER TO STRUCTURAL DRAWINGS FOR MASONRY REINFORCEMENT. ALL INTERIOR WALLS SHALL BE TYPE 'B3.1' UNLESS NOTED OTHERWISE. ALL COLUMN SURROUNDS SHALL BE WALL TYPE 'A2.1' UNLESS NOTED OTHERWISE. INSTALL CONTROL JOINTS IN GYPSUM BOARD WALLS, CEILINGS AND BULKHEADS AS INDICATED ON THE DIMENSION, REFLECTED CEILING PLANS, INTERIOR ELEVATIONS AND PER SPECIFICATION		
К.  И.	DIVISION 09. ALL STUDS SHALL BE AT 16" O.C. UNLESS NOTED OTHERWISE. ALL SHAFT WALL STUDS SHALL BE AT 24" O.C. UNLESS NOTED OTHERWISE. UNLESS NOTED OTHERWISE, PROVIDE WATER RESISTANT GYPSUM BOARD AT ALL WALLS COMMON TO WATER CLOSETS, URINALS, LAVATORIES, SINKS AND SHAFTS. 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. SMOKE AND FIRE RATED WALLS SHALL BE CONTINUOUS THROUGH AND ABOVE DOOR AND WINDOW OPENINGS. FURNISH AND INSTALL FIRE STOP SEALANT WHERE GYPSUM WALL BOARD MEETS FIREPROOFING ON COLUMNS, BEAMS, AND METAL DECK AT FIRE RATED PARTITIONS. WHERE GYPSUM BOARD COLUMN SURROUNDS ARE ADJACENT TO		NEW CO
R. S.	CASEWORK, THE DEPTH OF THE COLUMN SURROUND SHALL EXTEND 1" BEYOND FACE OF CASEWORK OR EDGE OF COUNTERTOP. 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.		<pre><pre>FEC&gt;</pre> <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>
GEI	NERAL ARCHITECTURAL NOTES		
А. З.	REFER TO THE EQUIPMENT SCHEDULE ON SHEET A143 FOR EQUIPMENT INFORMATION. COORDINATE BLOCKING AND MECHANICAL, ELECTRICAL AND PLUMBING CONNECTIONS AS REQUIRED. VERIFY WITH OWNER REQUIREMENTS FOR ALL EQUIPMENT (MOUNTING HEIGHTS, LOCATIONS AND SIZES) INCLUDING ALL OWNER FURNISHED OWNER INSTALLED ITEMS.		
C. D. E. F.	INSTALL STEEL BACKING, 20 GAUGE, AT ANY WALL HUNG ITEMS EXCEEDING 20 POUNDS. REFER TO THE DIMENSION PLAN FOR ADDITIONAL INFORMATION REGARDING WALL AND OPENING CONSTRUCTION. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING PLANS FOR ADDITIONAL INFORMATION. VERIFY EXISTING CONDITIONS PRIOR TO ANY FABRICATION OR		
G.	CONSTRUCTION. IF EXISTNG CONDITIONS ARE DIFFERENT THAN SHOWN, NOTIFY ARCHITECT/ENGINEER IMMEDIATELY. LOOSE FURNITURE, SHOWN HALFTONE & DASHED, IS SHOWN IS FOR REFERENCE PURPOSES ONLY AND IS OWNER FURNISHED AND INSTALLED.		
GE	NERAL FRAME ELEVATION NOTES		
A.	FRAME TYPES: HM = HOLLOW METAL, SF = STOREFRONT, CW = CURTAIN WALL, AG = ALL GLASS, SSF = SPECIALTY STOREFRONT, FSF = FIRE-RATED STOREFRONT.		AUTO
B. C. D. E.	REFER TO DIVISION 08 IN THE PROJECT MANUAL FOR ALL FRAME PANEL TYPE DESIGNATIONS. ALL HOLLOW METAL SYSTEMS TO BE 2" TALL (FACE FRAME) x 5 1/4" DEEP UNITS U.N.O. SEE SHEET A500 FOR DETAIL SETS FRAME MANUFACTURER TO VERIFY IN FIELD ACTUAL CONDITIONS PRIOR TO FRAME MANUFACTURE AND INSTALLATION.		CEILING
F. G.	MULLION LOCATIONS ARE INDICATED TO THE CENTERLINE OF THE MULLION U.N.O. ALL FRAME ELEVATIONS ARE SHOWN AS SEEN FROM THE PUBLIC APPROACH SIDE OF FRAME		123 ACT +9' -

0-CJ ) <del>. . . .</del> . 



NOM NTS

NOMINAL NOT TO SCALE OC OD OF/CI OF/OI ON CENTER OF/VI OH OH DR OPNG OPP OR ORIG OVHD OPPOSITE HAND OPENING OPPOSITE **OPERATING ROOM** ORIGINAL OVERHEAD PAINT PB PERF PUSH BUTTON PERFORATED PL PLAM PLBG PLYWD PME PNEU PP PR PLASTIC LAMINATE PLUMBING PLYWOOD PNEUMATIC PAIR PREFAB PREFABRICATE PREP PREPARATION PREV PREVIOUS PSI PORCELAIN TILE PT PTB PTN PWR PARTITION POWER QT QTY QZ QUARRY TILE QUANTITY QUARTZ SURFACE RB RCP RESILIENT BASE RCPTN RECEPTION RCF IN RED REEBAR REC RECPT REF REG REINF REQD REST REV BE ROOF DRAIN RECESSED RECEPTACLE REGISTER REINFORCE(MENT) REQUIRED RESTROOM REVISION RF RUBBER FLOORING RFI RM ROOM RO ROUGH OPENING RS RST ROLLER SHADE RESILIENT STAIR TREAD SOUTH SC SCWD SDT SGD SGL SINGLI SHR SIM SPEC SPKR SHOWER SIMILAR SPECIFICATION SPEAKER SQ SQUARE SOLID SURFACE SS SST STAINLESS STEEL SST STC STD STL STOR STRUCT SUB SV STANDARD STEEL STORAGE STRUCTURE(AL) SUBSTITUTE SHEET VINYL TOP OF TA TACKBOARD ΤB TELEPHONE TEL TEMP TF TACKABLE FABRIC THK THRU TOC TOS THICK(NESS) THROUGH TOP OF CONCRETE TOP OF STEEL TS TSTAT TUBE STEEL THERMOSTAT TV TYP TELEVISION TYPICAL ΤZ TZB TERRAZZO BASE UBC UL UNO UTIL UTILITY VAR VARIES VB VCT VERT VEST VET VINYL BASE VERTICAL VESTIBULE VIF VWC VERIFY IN FIELD WEST (WIDE) W WITH ` W/ W/O WD WDW WF WITHOUT WOOD PANELING WINDOW WIDE FLANGE WM WP WALK-OFF MAT WPT WR WORKING POINT WT WEIGHT WVW WWF WELDED WIRE FABRIC

# OUTSIDE DIAMETER (DIMENSION) OWNER FURNISHED/CONTRACTOR INSTALLED OWNER FURNISHED/OWNER INSTALLED OWNER FURNISHED/VENDER INSTALLED OVERHEAD (COILING) DOOR PROPERTY LINE, OR PLASTIC LAMINATE PAINT OR PATCH TO MATCH EXISTING PUSH/PULL (PUSH PAD) POUNDS PER SQUARE INCH PORCELAIN TILE BASE

REFLECTED CEILING PLAN REINFORCING STEEL BARS REFERENCE (REFER TO) REQUEST FOR INFORMATION

SEALED CONCRETE SOLID CORE WOOD DOOR STATIC DISSIPATIVE TILE SQUARE FOOT (FEET) SLIDING GLASS DOOR

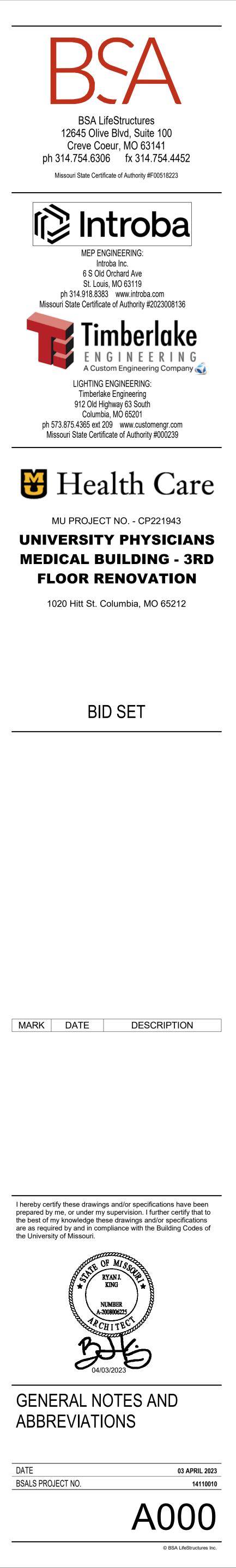
SOUND TRANSMISSION CLASS

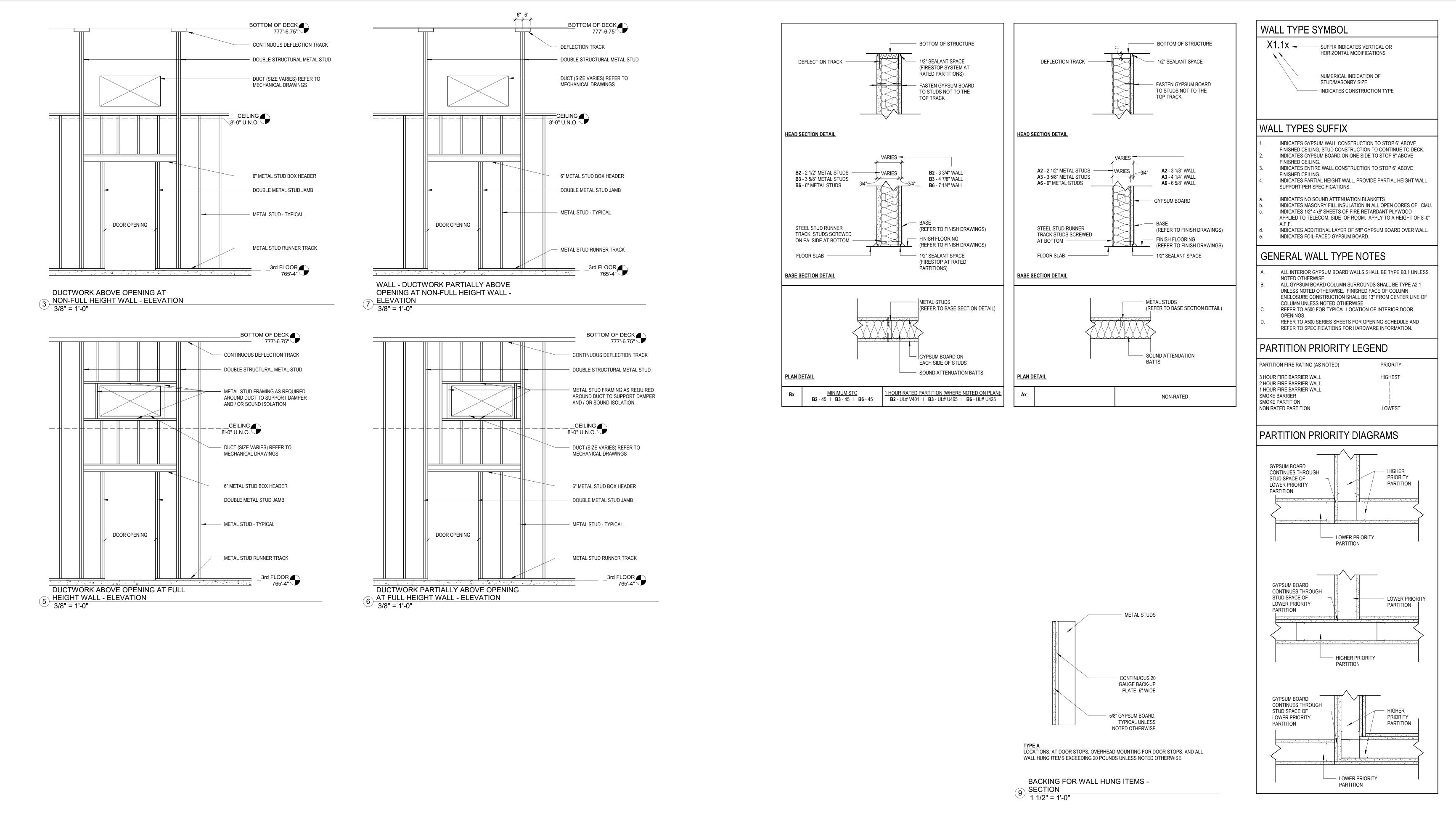
TOUCHLESS ACTUATOR TEMPORARY (TEMPERATURE) TERRAZZO FLOORING

UNIFORM BUILDING CODE UNDERWRITER'S LABORATORIES UNLESS NOTED OTHERWISE

VINYL COMPOSITION TILE VINYL ENHANCED TILE VINYL WALL COVERING

WALL PROTECTION ASSEMBLY WEATHER RESISTANT WOOD VENEER WALLCOVERING



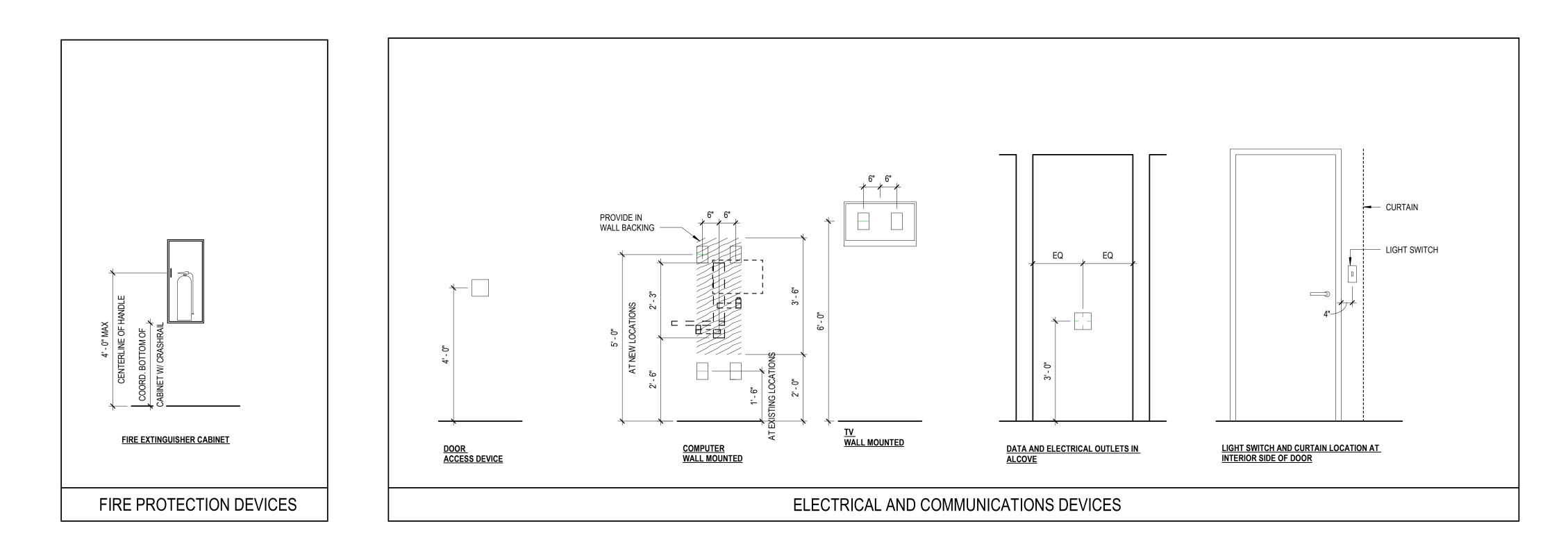


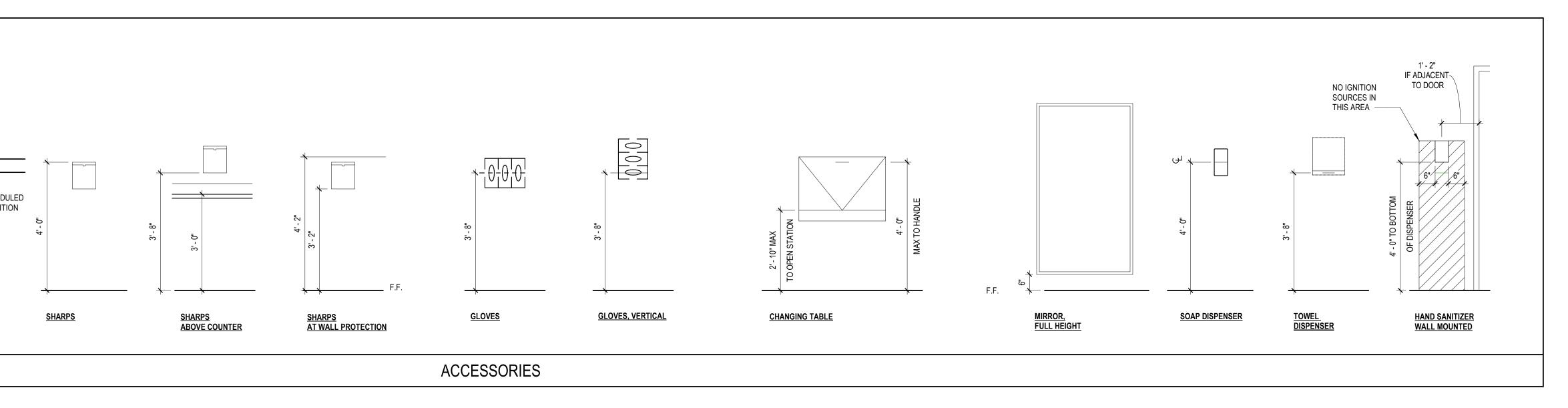
GENERAL P	GENERAL PARTITION CONTRUCTION REQUIREMENTS							
PARTITION TYPE SEE PLANS FOR PARTITION TYPE(S)	GENERAL USE	FIRE RATING OF PARTITION	PARTITION HORIZONTAL CONTINUITY	PARTITION VERTICAL CONTINUITY	<b>OPENINGS</b> (SUCH AS WINDOWS AND DOORS)	PENETRATIONS (SUCH AS DUCTS, PIPING, CONDUITS)	<b>JOINTS</b> (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

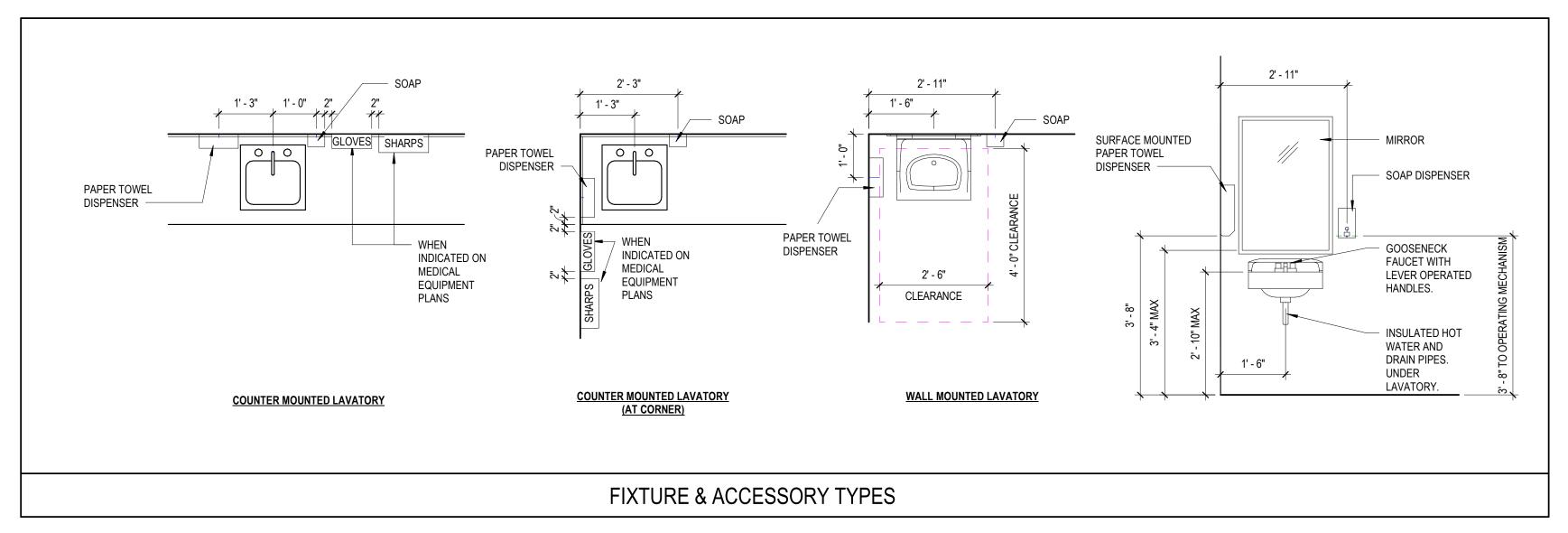


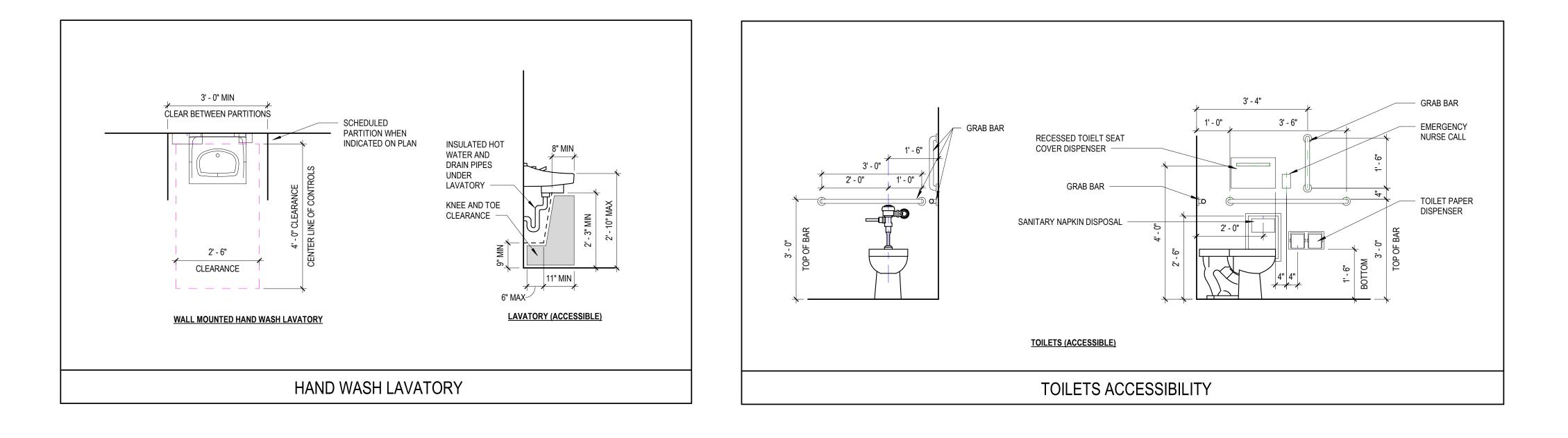
3/30/; BIM 3 DESIG DRAW

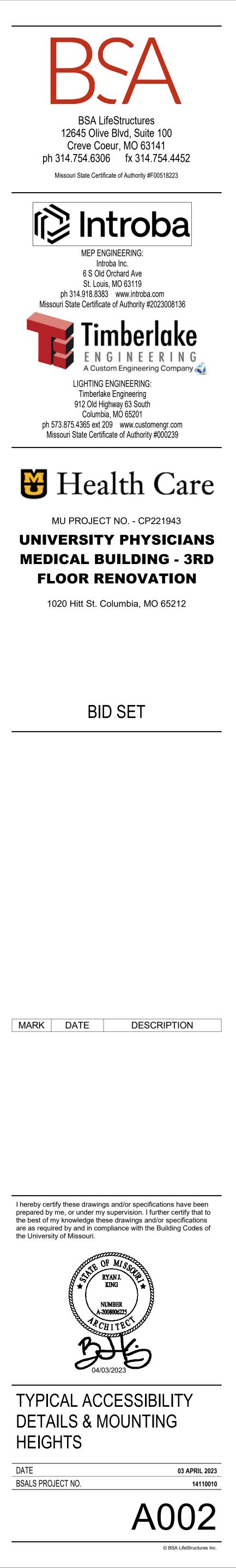
++ SCHEDULED <u>COAT RACK LOCATION</u> PLAN COAT RACK





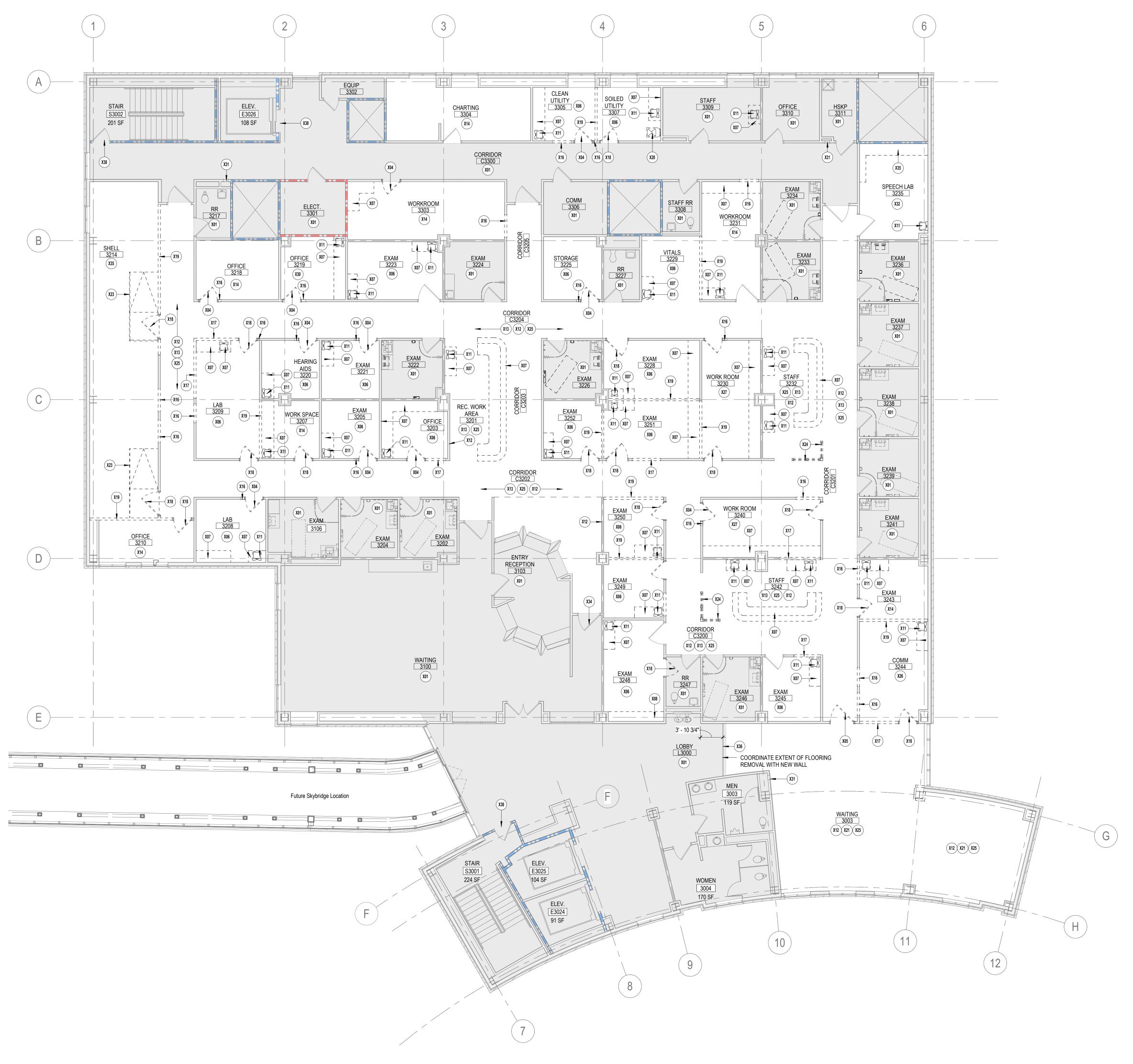






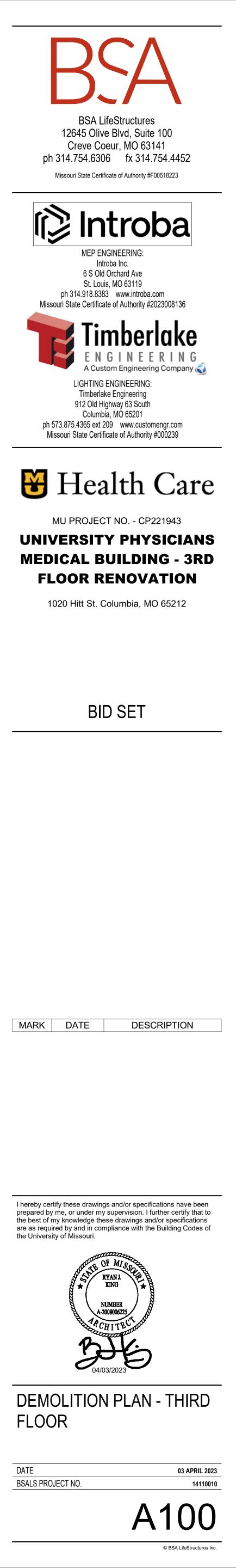
# 3/30/2023 4:28:20 PM BIM 360.//4440040 | IBMB Boxoviction 2nd Elocul44440040

360://14110010 - UPMB Renovation - 3rd Floor/14110010 SNED Designer 1 THIRD FLOOR DEMOLITION PLAN 1/8" = 1'-0"



	GENERAL NOTES
Α.	ROOM NUMBERS INDICATED ON THIS PLAN ARE EXISTING NUMBERS AND DO NOT CORRELATE WITH NEW WORK ROOM NUMBERS
KE'	YNOTE LEGEND
	REFER TO A000 FOR GENERAL NOTES
X01	EXISTING TO REMAIN.
X04	REMOVE EXISTING DOOR, FRAME, AND HARDWARE IN ITS ENTIRETY. PREPARE OPENING TO RECEIVE NEW DOOR, FRAME, AND HARDWARE.
X05	REMOVE EXISTING DOOR, FRAME, 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 RESILIENT FLOORING AND BASE IN THEIR ENTIRETY. REMOVE EXISTING WALL PROTECTION IN ITS ENTIRETY. PREPARE FLOOP 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. PREPARE WALL AS NEEDED FOR NEW FINISH.
X08	REMOVE EXISTING CASEWORK IN ITS ENTIRETY. PREPARE WALL TO RECEIVE NEW WALL FINISH. REFER TO INTERIOR FINISH PLANS FOR ADDITIONAL INFORMATION.
X11	REMOVE EXISTING PLUMBING FIXTURE. PREPARE WALL AS NEEDED FOR NEW FINISH.
X12	REMOVE EXISTING WALL COVERING IN ITS ENTIRETY. PREPARE WALLS TO RECEIVE NEW PAINT
X13	REMOVE EXISTING CARPET IN ITS ENTIRETY
X14	REMOVE EXISTING CARPET AND BASE IN THEIR ENTIRETY. REMOVE ALL EXISTING CASEWORK. PREPARE FLOOR SLAB TO RECEIVE NEW FLOOR FINISH. PREPARE WALL TO RECEIVE NEW BASE AND NEW PAINT. REFER TO INTERIOR FINISH PLANS FOR ADDITIONAL INFORMATION.
X16	REMOVE PORTION OF EXISTING WALL TO ACCOMMODATE NEW OPENING COORDINATE WITH NEW WORK PLAN AND OPENING DETAILS.
X17	REMOVE PORTION OF EXISTING WALL.
X18	REMOVE EXISTING DOOR, FRAME, HEADER AND HARDWARE IN ITS ENTIRETY.
X19	REMOVE EXISTING WALL IN ITS ENTIRETY.
X20	REMOVE EXISTING CONCRETE BASE.
X21	SALVAGE EXISTING CARPET.
X23	REMOVE EXISTING WOOD RAMP AND GUARDRAIL SYSTEM IN ITS ENTIRETY.
X24	REMOVE EXISTING WINDOW AND WALL IN ITS ENTIRETY.
X25	REMOVE EXISTING WALL BASE IN ITS ENTIRETY.
X26	REMOVE EXISTING CARPET AND BASE IN THEIR ENTIRETY. REMOVE EXISTING ACOUSTIC WALL PANELS. PREPARE FLOOR SLAB TO RECEIVE NEW FLOOR FINISH. PREPARE WALL TO RECEIVE NEW BASE AND NEW PAINT. REFER TO INTERIOR FINISH PLANS FOR ADDITIONAL INFORMATION
X27	REMOVE EXISTING CARPET AND BASE IN THEIR ENTIRETY. REMOVE EXISTING TACK WALL PANELS. PREPARE FLOOR SLAB TO RECEIVE NEW FLOOR FINISH. PREPARE WALL TO RECEIVE NEW BASE AND NEW PAINT. REFER TO INTERIOR FINISH PLANS FOR ADDITIONAL INFORMATION.
X30	REMOVE EXISTING GYP. BD. CEILING & ALL CEILING MOUNTED FIXTURES.
X31	EXISTING FEC TO REMAIN. PROTECT.
X32	REMOVE EXISTING CARPET AND BASE IN THEIR ENTIRETY. REMOVE EXISTING WALL PROTECTION. PREPARE FLOOR SLAB TO RECEIVE NEW FLOOR FINISH. PREPARE WALL TO RECEIVE NEW BASE AND NEW PAINT. REFER TO INTERIOR FINISH PLANS FOR ADDITIONAL INFORMATION.
X34	EXISTING AUTOMATION TO REMAIN. PROTECT.
X35	ALIGN FLOORING DEMOLITION WITH EXISTING WALL
X36	REMOVE EXISTING WALLCOVERING TO COORDINATE WITH INSTALLATION OF THE NEW WALL. REFERENCE NEW WORK DRAWINGS.
X38	PROVIDE INFECTION CONTROL PROVISIONS & DUST PROTECTION AT

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



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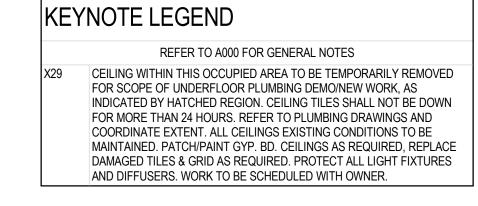
IGNED Designer WN Author ROVFD Annrover



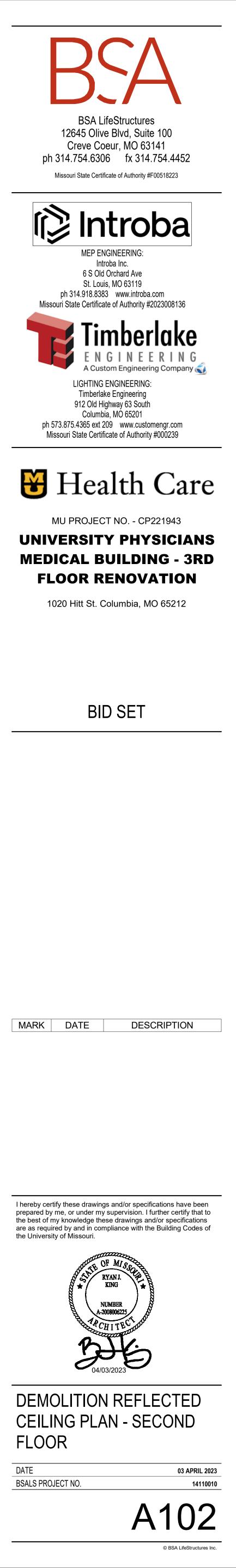
SECOND FLOOR REFLECTED CEILING

 PLAN - REFERENCE ONLY

 1/8" = 1'-0"



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





THIRD FLOOR REFLECTED CEILING

 PLAN- DEMOLITION

 1/8" = 1'-0"

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EQUIP 3302	CLEAN CL	SOULED       UTILITY       3307       - + - +       1 1 1	HSKP 3311 OFFICE 3310	
CORRIDOR C3300				
	CORRIDOR CORRIDOR C3205	STAFF RR     X33       3308     1       1     1	EXAM 3234 (X33) (X) (X33) (X) (X) (X) (X) (X) (X) (X) (X) (X) (X	+ - +       +       +         SPEECH LAB       1         13235       128         0       1         0       1         10       1         10       1         10       1         10       1         10       1         10       1         10       1         10       1         10       1         10       1         10       1         10       1         10       1         10       1         11       1         11       1         12       1         13236       1
		CORRIDOR C3204 Ø		EXAM
XAM     X33       3221       X28	X33 CORRIDOR CORRIDOR EXAM 3226 EXAM 3226 CORRIDOR EXAM 3226 CORRIDOR EXAM 3226 CORRIDOR COR	WORK ROOM 3230 EXAM 3228 4 3228 4 3228 4 4 3228 4 4 4 4 4 4 4 4 4 4 4 4 4		
CØRRIDØR C3100 Ø (X33	CORRIDOR C3100			
EXAM 3204 EXAM 3204 EXAM 3202 EXAM 1 EXAM EXAM EXAM EXAM EXAM EXAM EXAM EXAM EXAM EXAM EX	ENTRY RECEPTION 3103	EXAM EXAM	WORK ROOM 3240 	EXAM 3241 EXAM EXAM 3241 EXAM 
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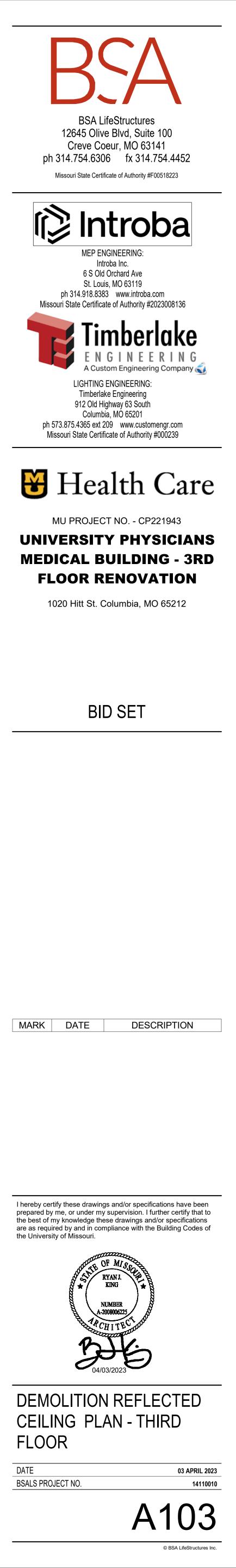
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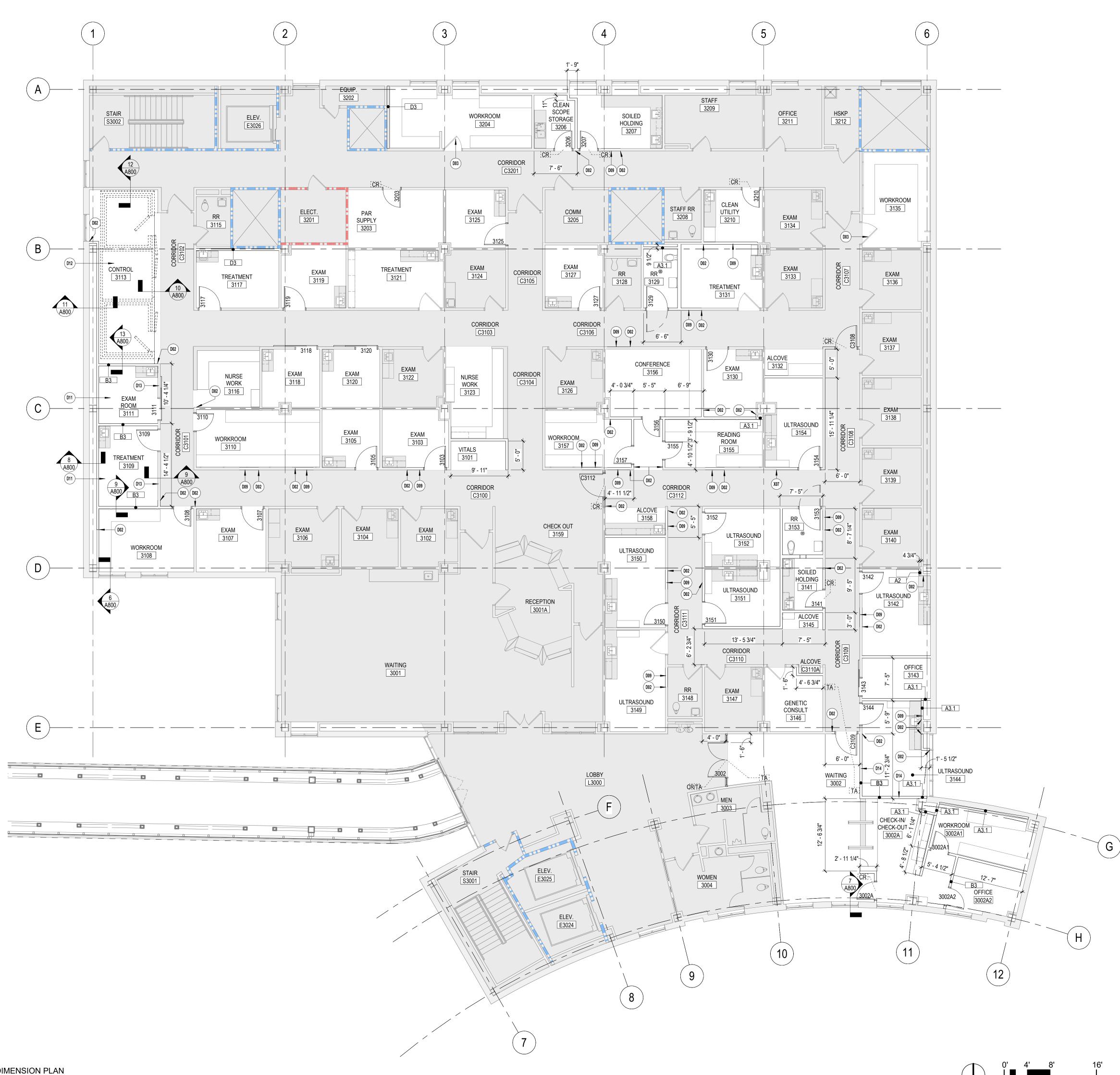
3



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

KE`	KEYNOTE LEGEND					
	REFER TO A000 FOR GENERAL NOTES					
X28	REMOVE EXISTING LAY-IN CEILING TILES & GRID, AND CEILING MOUNTED FIXTURES IN THEIR ENTIRETY.					
X30	REMOVE EXISTING GYP. BD. CEILING & ALL CEILING MOUNTED FIXTURES.					
X33	CEILING WITHIN THIS OCCUPIED AREA TO BE TEMPORARILY REMOVED FOR SCOPE OF HVAC AND PLUMBING DEMO/NEW WORK. CEILINGS TILES SHALL NOT BE DOWN FOR MORE THAN 24 HOURS. MODIFY CEILING GRID AS REQUIRED TO ACCOMMODATE NEW LIGHT FIXTURES AND DIFFUSERS. REPLACE DAMAGED TILES & GRID AS REQUIRED. PROTECT ALL LIGHT FIXTURES AND DIFFUSERS.					
X37	REMOVE EXISTING CEILING TO COORDINATE WITH THE INSTALLATION OF THE NEW WALL. REFER TO NEW WORK DRAWINGS.					





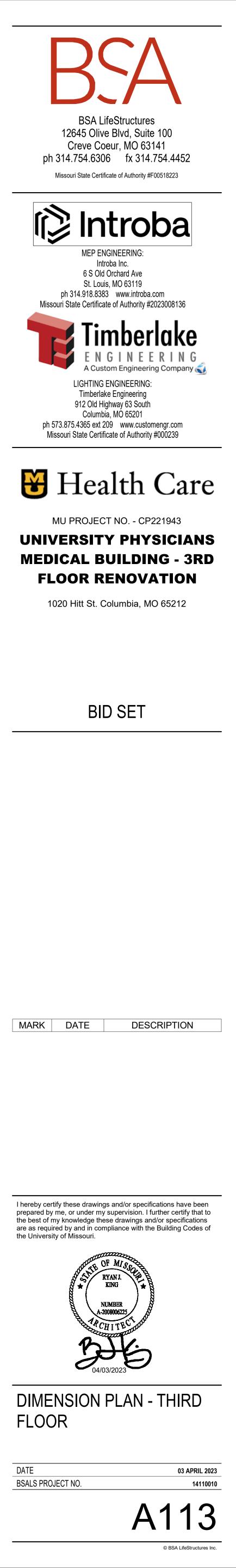
1 THIRD FLOOR DIMENSION PLAN 1/8" = 1'-0"

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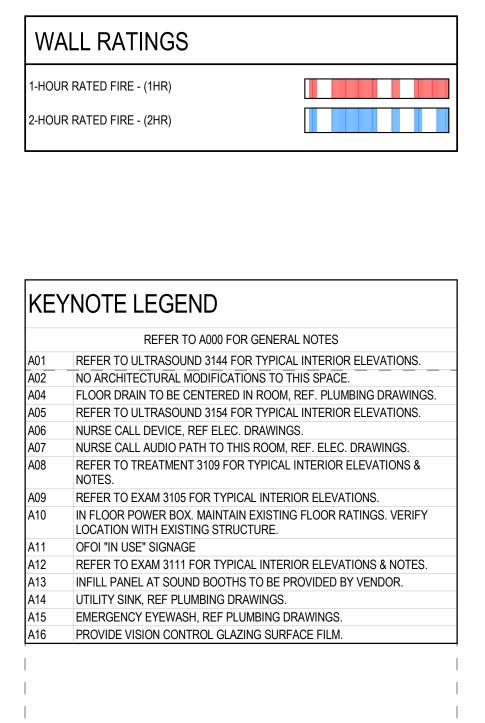
KEYNOTE LEGEND REFER TO A000 FOR GENERAL NOTES ALIGN. D02 MODIFY EXISTING OPENING TO REMOVE LOCK. D03 INFILL WALL CONSTRUCTION TO MATCH EXISTING WALL. ALIGN GYP. BD. ON BOTH SIDES. INFILL WALL SHOULD MATCH PARTITION WALL TYPE B3. PLYWOOD SUBFLOOR WITH SLEEPERS INFILL AT SOUND BOOTH PIT LIGHT WEIGHT CONCRETE AND GEOFOAM INFILL AT SOUND BOOTH PIT MODIFY EXISTING WALL TO EXTEND UP TO DECK EXTEND WALL FULL HEIGHT, INCLUDING STUD CONSTRUCTION, GYPSUM BOARD ON EACH SIDE, AND SOUND ATTENUATION BATTS TO UNDERSIDE OF DECK FOR MINIMUM STC RATING.

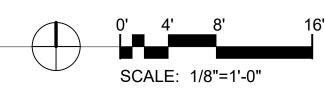
07 REMOVE EXISTING CASEWORK IN ITS ENTIRETY. PREPARE WALL AS NEEDED FOR NEW FINISH.



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









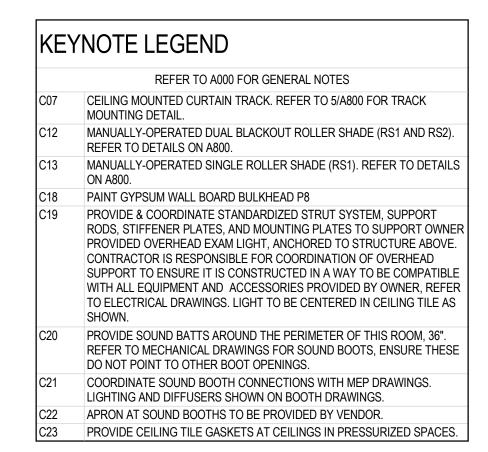
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1 THIRD FLOOR REFLECTED CEILING PLAN 1/8" = 1'-0"



				REFL	ECTED CE	ILING SCH	IEDULE		
	REFERENCE		CEILING TYP	ΡE			SUSPEN	SION SYSTEM	
TYPE	STANDARD MANUFACTURER	STYLE NAME	MODEL #	SIZE	COLOR	GRID SYSTEM	SIZE	COLOR	DESCRIPTION
ACT1	ARMSTRONG	2X2 ULTIMA SQUARE EDGE		2' X 2'	WHITE	PRELUDE HD	15/16"	WHITE	
ACT2	ARMSTRONG	2X4 ULTIMA SQUARE EDGE		2' X 4'	WHITE	PRELUDE HD	15/16"	WHITE	
ACT3		2X2 ULTIMA CREATE SQUARE EDGE - CUSTOM GRAPHIC		2' X 2'	WHITE	PRELUDE HD	15/16"	CUSTOM GRAPHIC	GRAPHIC: ADOBE STOCK FILE #278721171, CROPPED INTO 4 DIFFERENT UNIQUE TILES
GWB	REFER TO PROJECT MANUAL	•	-	-	-	-	-	REFER TO INTERIOR FINISH PLANS FOR PAINT	



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





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

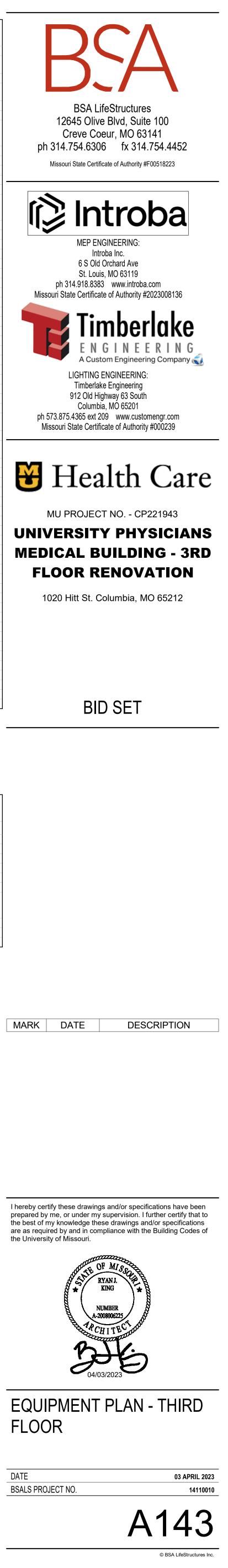
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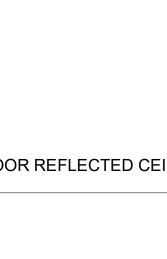
NUMBER	NAME	FURNISHED	INSTALLED	MANUFACTURER	MODEL NUMBER	DIMENSIONS (WxDxH)	REMARKS
E001	VITAL SIGNS MONITOR	OWNER	CONTRACTOR	WELCH ALLYN	901060	11"x10"x5"	WALL MOUNTED 48"H, POWER & DATA 42"H
E002	SCALE	OWNER	OWNER	SECA	?	16.1"x22.7"x53.4"	POWER
E003	MICROSCOPE	OWNER	OWNER	SEILER / REICHERT	/ MICROSTAR 4	7"x13"x15" / 8"x15"x15.5"	POWER
E005		OWNER	OWNER	?	? ?	? 40%-40%-20%/40%-02%-25 5%	POWER & DATA
E007 E009	SOILED LINEN HAMPER CUBICLE CURTAIN AND TRACK	OWNER CONTRACTOR	OWNER CONTRACTOR	<i>!</i>	(	18"x18"x38" / 19"x23"x35.5"	INSTALL PER DETAIL 5/A800. REF.
							INTERIOR FINISH DRAWINGS & SPECIFICATIONS
E010	EXAM TABLE	OWNER	OWNER			-	
E011	WALL MOUNTED COMPUTER	OWNER	CONTRACTOR	HUMANSCALE	V-FLEX	?	POWER & DATA 60"H
E012 E013	REFRIGERATOR- UNDERCOUNTER COMPUTER WORKSTATION- SINGLE MONITOR	OWNER OWNER	OWNER	FOLETT ?	REF5P-00-00	23.75"x25.62"x34" ?	POWER POWER (2 PLUG-IN LOCATIONS) & DATA
E013 E014	COMPUTER WORKSTATION - SINGLE MONITOR	OWNER	OWNER	?	?	?	POWER (2 PLUG-IN LOCATIONS) & DATA
E020	OVERHEAD EXAM LIGHT	OWNER	OWNER (VENDOR)	STRYKER-BERCH TOLD CORPORATION	•	-	POWER. REFER TO STRYKER DOCUMENTATION FOR STANDARD MOUNTING STRUCTURE.
E021	SHRED BIN	OWNER	OWNER	CINTAS	?	20"x11"x24"/21.5"x15.5"x35.5"	
E024	CREDIT CARD MACHINE	OWNER	OWNER	?	?	?	
E025		OWNER	OWNER	?	?	?	
E026		OWNER	OWNER	?	?	?	
E027	MULTIFUNCTION PRINT/ COPY/ SCAN	OWNER	OWNER	?	?	?	POWER & DATA
E029		OWNER	OWNER	TROPHON GE	EPR	13"x12.5"x19"	
E030 E031	ULTRASOUND GEL WARMER	OWNER OWNER	OWNER	GE PARKER LABS	VOLUSON THERMASONIC	23"x37"x55" 5.9"x4.9"x8.5"	POWER, DATA, & HDMI POWER
E031 E032	TELEPHONE	OWNER	OWNER	?	?	5.9 x4.9 x0.5 ?	POWER & DATA
E034	MONITOR WALL MOUNTED 32"	OWNER	CONTRACTOR	?	?	?	POWER & DATA 72" H U.N.O.
E035	MONITOR WALL MOUNTED 43"	OWNER	CONTRACTOR	?	?	?	POWER & DATA 72" H U.N.O.
E036	URINALYSIS SCANNER	OWNER	OWNER	SIEMENS	CLINITEK	6.7"x10.7"x6.2"	POWER
E037	URINALYSIS	OWNER	OWNER	?	?	7"x15.5"x7.5"	POWER & DATA
E039	PROBE STORAGE RACK	OWNER	CONTRACTOR	CIVCO	610-942	19.8"x9.5"x7.1"	INSTALL IN CABINET
E040	SAFE	OWNER	OWNER	MESA	WBB986483	14"x14"x20.25"	
E041	MOBILE NST	OWNER	OWNER	GE	COROMETRICS 172	?	POWER
E042	AED	OWNER	OWNER	?	?	?	
E043	OXYGEN	OWNER	OWNER	?	?	?	
E044	BP	OWNER	OWNER	WELCH ALLYN	?	?	POWER & DATA
E045	MONITOR WALL MOUNTED 27"	OWNER	CONTRACTOR	?	?	?	REFER TO ELEVATION
E046		OWNER	OWNER	?	? ?	?	INSTALL BOTTOM OF HOLDER TO 30" A.F.F.
E049 E050	MONITOR WALL MOUNTED 55" DIAGNOSTIC OTO WALL SET	OWNER	CONTRACTOR	? WELCH ALLYN	? 767	? 2	POWER & DATA 66"H WALL MOUNTED 48"H, POWER & DATA
L000	DIAGNOSTIC OTO WALL SET	OWNER	CONTRACTOR	WELCHALLIN	101	:	42"H
E051	INFANT SCALE COUNTERTOP	OWNER	OWNER	MIDMARK	640	41.9"x20.8"x35.8"	POWER
E052	SCALE- ROLL ON	OWNER	OWNER	SCALE-TRONIX	?	?	POWER
E054	WALL MT. MICROSCOPE	OWNER	CONTRACTOR	LEICA	M320	?	POWER @ 68" H
E055	ENT CHAIR	OWNER	OWNER	RELIANCE	710H	?	POWER
E056	CART ENDOSCOPY	OWNER	OWNER	STORZ	ENDOSKOPE	?	POWER & DATA
E057		OWNER	OWNER	SMA	?	?	POWER
E058 E059	CYSTOSCOPY TOWER	OWNER OWNER	OWNER	?	? ?	? 2	
E059 E060	MAYO	OWNER	OWNER	?	?	? ?	
E060 E061	24" x 48" WIRE SHELVING	OWNER	OWNER	?	?	?	
E062	24" x 40" WIRE SHELVING	OWNER	OWNER	?	?	?	
E063	CABINET DRYING SINGLE	OWNER	CONTRACTOR	MASS MEDICAL	SAS-8M-LGH	21.5"x19"x88.5"	POWER
E064	DISINFECTION UNIT	OWNER	CONTRACTOR	PCI MEDICAL	G14ENT	15"x12.25"x16"	POWER
E065	18 x 36 WIRE SHELVING	OWNER	OWNER	?	?	?	
E066	O2 CYLINDERS	OWNER	OWNER	?	?	?	
E067	CART- SOILED LINEN	OWNER	OWNER	?	?	?	
E069	CART CLEAN LINEN 55 IN	OWNER	OWNER	?	?	?	
E070	BLANKET WARMER COUNTERTOP	OWNER	OWNER	?	?	?	POWER
E071		OWNER	OWNER	RITTER	224/225	28"x60"x18"	POWER, N/A
E072		OWNER	OWNER	STERIS	HEXALUX	?	POWER
E073 E074	COMMODE URODYNAMIC MACHINE	OWNER OWNER	OWNER	? AQUARIUS	? XT	?	POWER & DATA
E074	URO EXAM TABLE	OWNER	OWNER	SONESTA	?	? ?	
E075	MICROWAVE	OWNER	OWNER	?	?	?	POWER IN CABINET
					•	?	
E077 E078	ICE MACHINE REFRIGERATOR	OWNER OWNER	OWNER OWNER	? ?	?	? ?	

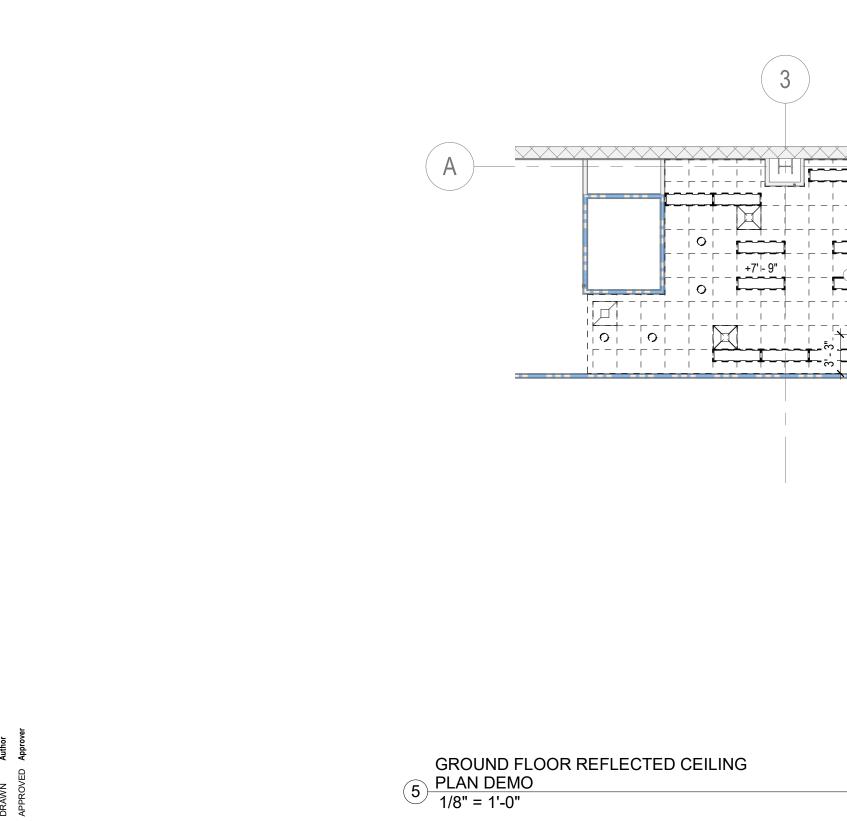
	TOILET	ACCESS	ORIES	
NUMBER	DESCRIPTION	PURCHASE	INSTALL	INSTALL NOTES
T01	SOAP DISPESNSER	OWNER	CONTRACTOR	REFER TO A002
T02	PAPER TOWEL DISPENSER	CONTRACTOR	CONTRACTOR	REFER TO A002
Т03	AUTOMATIC PAPER TOWEL DISPENSER	OWNER	CONTRACTOR	REFER TO A002
T04	GRAB BARS - ADA	CONTRACTOR	CONTRACTOR	REFER TO A002
T05	CHANGING TABLE	CONTRACTOR	CONTRACTOR	REFER TO A002
T06	TOILET PAPER DISPENSER	CONTRACTOR	CONTRACTOR	REFER TO A002
T08	MIRROR 24x36	CONTRACTOR	CONTRACTOR	REFER TO A002
Т09	WOOD FLIP COAT RACK	OWNER	CONTRACTOR	REFER TO A002
T10	HAND SANITIZER DISPENSER	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
Т13	SHARPS CONTAINER	OWNER	CONTRACTOR	REFER TO A002
Т14	MAGNETIC WHITEBOARD - 28"H X 42"W	CONTRACTOR	CONTRACTOR	INSTALL BOTTOM OF WHITEBOARD TO 34" A.F.F.
Г15	MAGNETIC WHITEBOARD - 48"H X 48"W	CONTRACTOR	CONTRACTOR	INSTALL BOTTOM OF WHITEBOARD TO 30" A.F.F.
Г16	MAGNETIC WHITEBOARD - 48"H X 36"W	CONTRACTOR	CONTRACTOR	INSTALL BOTTOM OF WHITEBOARD TO 30" A.F.F.
Г17	TRASH	OWNER	OWNER	-
Г18	BIOHAZARD BIN	OWNER	OWNER	-
Г19	SPECIMEN PASS-THROUGH CABINET RECESSED	CONTRACTOR	CONTRACTOR	
Г20	FEMININE NAPKIN DISPOSAL - SURFACE MOUNTED	CONTRACTOR	CONTRACTOR	REFER TO A002
Г21	MAGNETIC WHITEBOARD - 48"H X 60"W	CONTRACTOR	CONTRACTOR	INSTALL BOTTOM OF WHITEBOARD TO 30" A.F.F.
Г22	MAGNETIC WHITEBOARD - 48"H X 72"W	CONTRACTOR	CONTRACTOR	INSTALL BOTTOM OF WHITEBOARD TO 30" A.F.F.
Г23	MAGNETIC WHITEBOARD - 48"H X 30"W	CONTRACTOR	CONTRACTOR	INSTALL BOTTOM OF HOLDER TO 30" A.F.F.
Т24	MOP AND BROOM HOLDER/SHELF	CONTRACTOR	CONTRACTOR	REFER TO A002

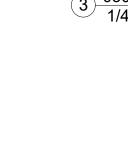
KEYNOTE LEGEND
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	REFER TO A000 FOR GENERAL NOTES
E01	REFER TO ULTRASOUND 3144 FOR EQUIPMENT TAGS.
E02	REFER TO ULTRASOUND 3154 FOR EQUIPMENT TAGS.
E03	REFER TO EXAM 3105 FOR EQUIPMENT TAGS.
E04	POWER & DATA AT 66" H.
E05	REFER TO TREATMENT 3109 FOR EQUIPMENT TAGS.
E06	REFER TO EXAM 3111 FOR EQUIPMENT TAGS.
E07	OWNER PROVIDED VENDOR INSTALLED SOUND BOOTHS & CONTROL. REFER TO SHEET V000 FOR ADDITIONAL INFORMATION. CONTRACTOR TO COORDINATE VENDOR INSTALLATION.
E08	REFER TO EXAM 3136 FOR EQUIPMENT TAGS, U.N.O.
E09	REFER TO EXAM 3130 FOR EQUIPMENT TAGS.
E11	OFFSET COUNTERTOP FROM WALL BY 1 1/2" FOR WIRE MANAGEMENT













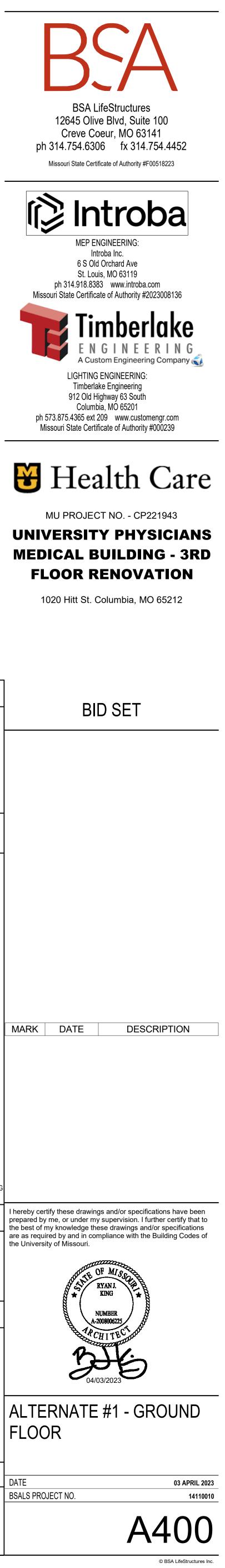
WALL RATINGS							
1-HOU	R RATED FIRE - (1HR)						
2-HOU	R RATED FIRE - (2HR)						
KE`	YNOTE LEGEND						
	REFER TO A000 FOR G						
<b>KE`</b>							
	REFER TO A000 FOR G	TOP WITH OUTSIDE FACE OF DARD SOFFIT. EXTEND SOFFIT AT					
A17	REFER TO A000 FOR G ALIGN OUTSIDE EDGE OF COUNTER EXISTING OVERHEAD SOFFIT. LINE OF EXISTING GYPSUM WALL BO	TOP WITH OUTSIDE FACE OF DARD SOFFIT. EXTEND SOFFIT AT INISH.					
A17 C24	REFER TO A000 FOR G ALIGN OUTSIDE EDGE OF COUNTER EXISTING OVERHEAD SOFFIT. LINE OF EXISTING GYPSUM WALL BO SAME ELEVATION FOR SEAMLESS F ALIGN OUTSIDE FACE OF SOFFIT TO	TOP WITH OUTSIDE FACE OF DARD SOFFIT. EXTEND SOFFIT AT INISH. OUTSIDE EDGE OF COUNTERTOP					

X08	REMOVE EXISTING CASEWORK IN ITS ENTIRETY. PREPARE WALL TO RECEIVE NEW WALL FINISH. REFER TO INTERIOR FINISH PLANS FOR ADDITIONAL INFORMATION.
X11	REMOVE EXISTING PLUMBING FIXTURE. PREPARE WALL AS NEEDED FOR NEW FINISH.
X15	REMOVE EXISTING RESILIENT FLOORING. PREPARE FLOORS TO RECEIVE NEW FLOORING
X25	REMOVE EXISTING WALL BASE IN ITS ENTIRETY.
X35	ALIGN FLOORING DEMOLITION WITH EXISTING WALL
X39	REMOVE PORTION OF EXISTING CONCRETE FLOOR SLAB FOR UNDER GROUND PLUMBING WORK AS NEEDED. REFER TO PLUMBING DRAWINGS.

PAINT ALL NEW WALLS P1. NEW BASE TO MATCH EXISTING.

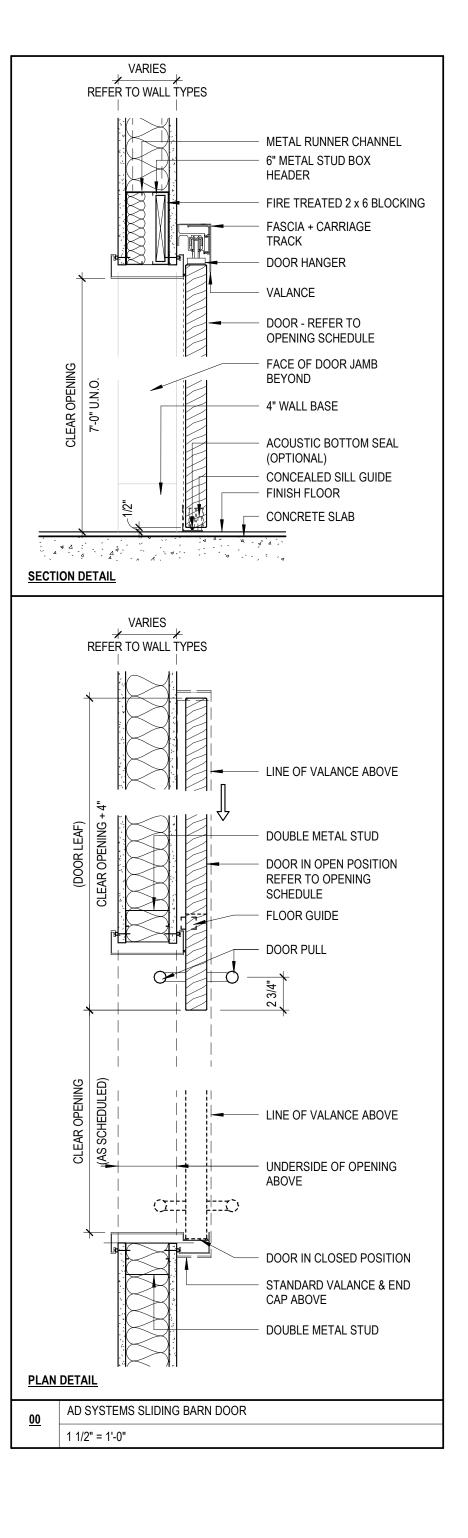
a.	REFER TO INTERIOR FINISH P		TES FOR ACCENT WALL
b.	LOCATIONS. REFER TO INTERIOR FINISH P		
с.			E EXISTING CARPETING WITH
ł.		N TILE, P	T1 WITH 12" ACCENT TILE PT2.
Э.		N TILE, P	T1 WITH 12" ACCENT TILE PT3.
		N TILE, P	T4 WITH 12" ACCENT TILE PT3.
FINI	SH ABBREVIATIO	ONS	
* NOT AI	L FINISHES LISTED ARE USED	IN PROJ	ECT
ACB ACT AF AWC BF BL	ACOUSTICAL CEILING BAFFLE ACOUSTICAL CEILING TILE ACCESS FLOORING ACOUSTICAL WALL CARPET BAMBOO FLOORING BLINDS	PT PTB QZ RB RSF RTF RR	RUBBER TILE FLOORING RUB RAIL
BR BRK CC CF	BUMP RAIL BRICK CUBICLE CURTAIN CORK FLOORING	RST RS SAP SC	RESILIENT STAIR TREAD ROLLER SHADE SOUND-ABSORBING PANEL SEALED CONCRETE
CG CMU	CORNER GUARD CONCRETE MASONRY UNIT	SDT	(SPEC 03300) STATIC DISSIPATIVE TILE
CPT CS	CARPET CAST STONE OR CULTURED STONE	SHC SSB SPC	SHOWER CURTAIN SOLID SURFACE BASE SPECIALTY COATING
СТВ СТ	CERAMIC TILE BASE CERAMIC TILE	SPC SS SSK	SOLID SURFACE SOLID SURFACE SINK
CR DG	CRASH RAIL OR CHAIR RAIL DECORATIVE GLASS	SSP STB	SOLID SURFACE WALL PANEL STAINLESS STEEL BASE
DGF DP	DECORATIVE GLASS FILM DECORATIVE PANEL	STN STP	STONE OR STONE VENEER STONE SLAB WALL PANEL
EP ERB	EPOXY PAINT EPOXY RESIN BASE	SV SVT	SHEET VINYL SOLID VINYL TILE
ERF ETR	EPOXY RESIN FLOOR EXISTING TO REMAIN	SWP TB	SHEET WALL PROTECTION TACKBOARD
=B =RP	FABRIC FIBER REINFORCED PANEL	TF TZ	TACKABLE FABRIC TERRAZZO FLOORING
WC GYP	FABRIC WALLCOVERING GYPSUM	TZB TZT	TERRAZZO BASE TERRAZZO FLOOR TILE
GYP BD GLT HR	GYPSUM BOARD GLASS TILE HANDRAIL	VB VCF VCT	VINYL BASE VISION CONTROL FILM VINYL COMPOSITION TILE
_SF _TF	LINOLEUM SHEET FLOORING LINOLEUM TILE FLOORING		VINYL ENHANCED TILE VINYL WALL COVERING
LVT MB	LUXURY VINYL TILE MARKER BOARD	WB WD	WOOD BASE WOOD PANELING
MT MWC	MOSAIC TILE MARKER WALLCOVERING	WDF WP	WOOD FLOORING WALL PROTECTION ASSEMBLY
P PL PME	PAINT PLASTIC LAMINATE PATCH TO MATCH EXISTING	WM WVW	WALK-OFF MAT WOOD VENEER WALLCOVERIN
FLO	OR TRANSITION	IND	ICATOR
			FLOOR FINISH AS INDICATED
	DR FINISH		IN ROOM FINISH TAG DIFFERING FLOOR FINISH
RUU	OM FINISH TAG L	EGE	
		-	ROOM NAME
			ROOM NUMBER
Fl	_00R		
B/	ASE		
W	ALL	-	REMARKS COLUMN
			G ARE GENERAL OVERALL

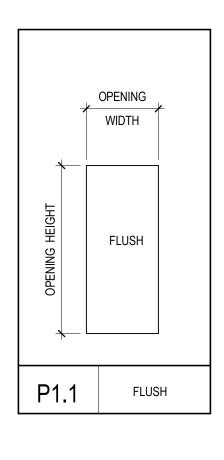
INDICATES AREAS NOT IN SCOPE

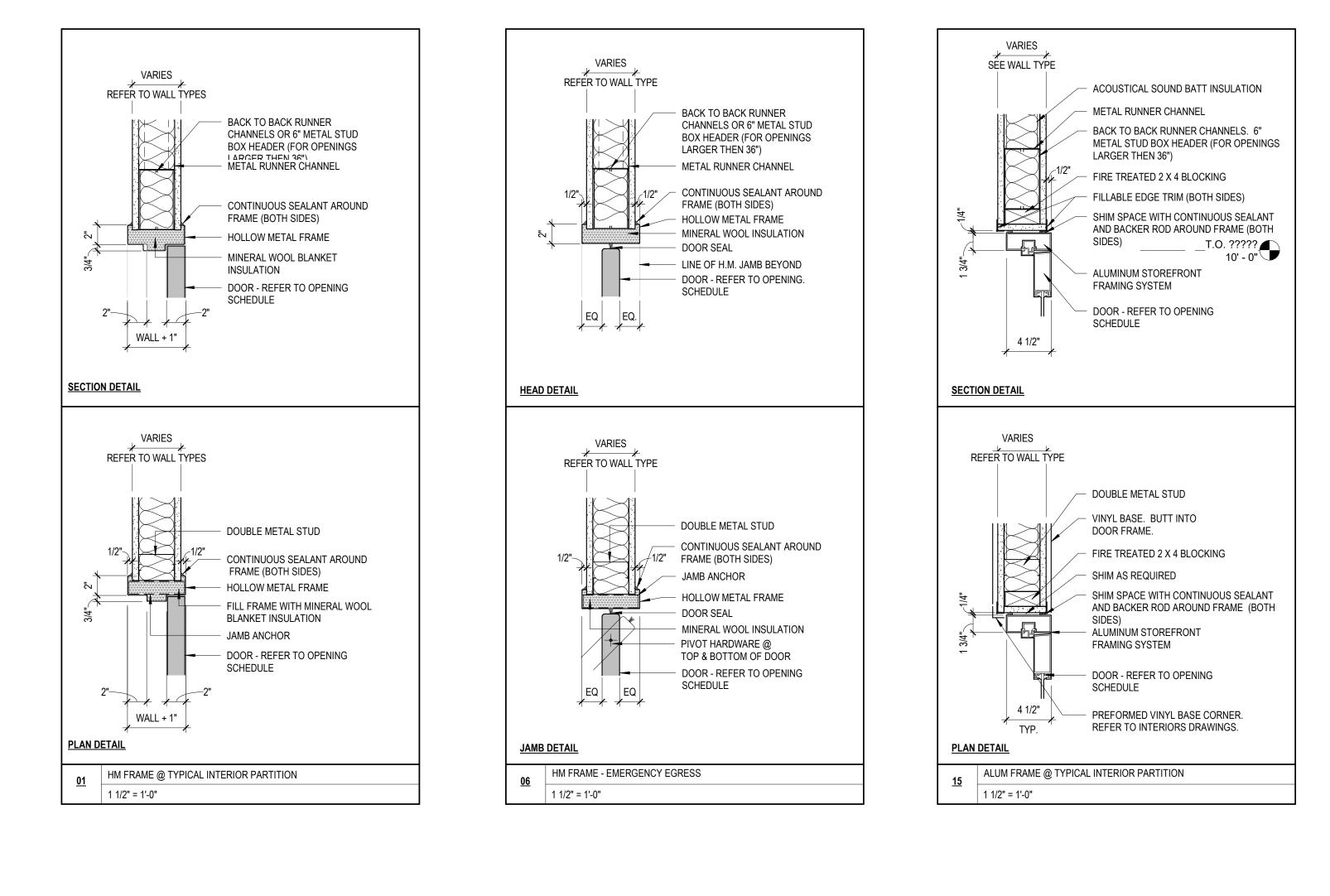




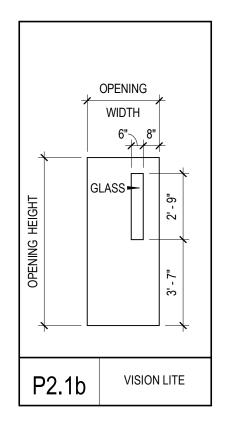
**4110(** Design Author

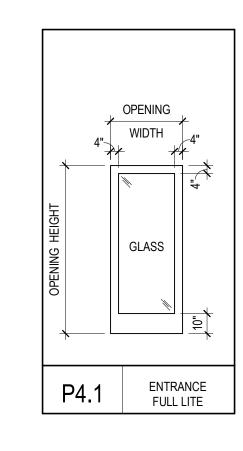


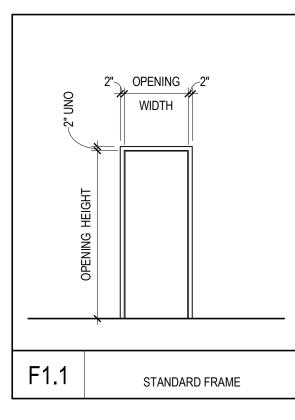


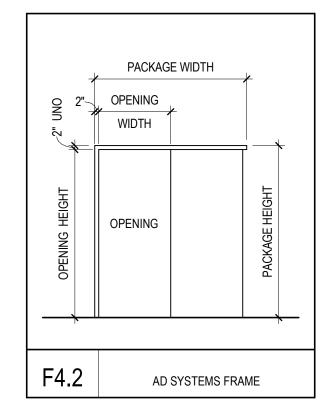


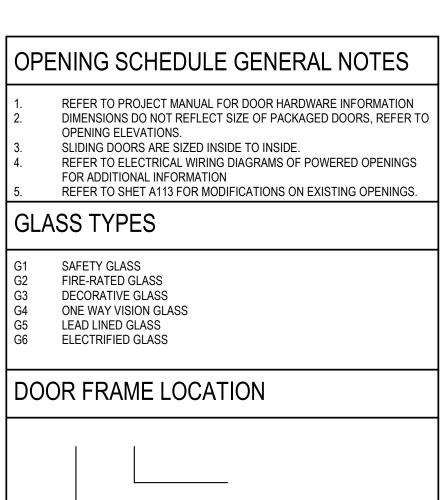
									OPENING SCHEDULE								
	ROO	MS	OPENI	NG SIZE			PAN	EL CONSTRUCTION			FRAME CO	NSTRUCTION					
OPENING						W	IDTH	ELEV	ATION	MATERIA		SIDELIT	E WIDTH		GLASS	FIRE RATING	COMMENTS
NUMBER	ROOM A	ROOM B	WIDTH	HEIGHT	MATERIAL	PRIMARY	SECONDARY	Y PRIMARY	SECONDARY		ELEVATION	HINGE SIDE	WIDTH SIDE	DETAIL SET		(MINUTES)	COMMENTS
0302	BREAK	PASSAGE	3' - 0"	7' - 0"	WD	3' - 0"	0"	P2.1b : VISION LITE		HM	F1.1 : STANDARD	0"	0"	01	G1		ALTERNATE #1 OPENING. CAP READ IN.
0302A	BREAK	TLT.	3' - 0"	7' - 0"	WD	3' - 0"	0"	P1.1 : FLUSH		HM	F1.1 : STANDARD	0"	0"	06	-		ALTERNATE #1 OPENING. PRIVACY SET.
0302B	BREAK	LACTATION	3' - 0"	7' - 0"	WD	3' - 0"	0"	P1.1 : FLUSH		HM	F1.1 : STANDARD	0"	0"	01	-		ALTERNATE #1 OPENING. PRIVACY SET.
3002	WAITING	LOBBY	6' - 0"	7' - 0"	AL/GL	3' - 0"	3' - 0"	P4.1 : ENTRANCE FULL LITE	P4.1 : ENTRANCE FULL LITE	AL	F1.1 : STANDARD	0"	0"	15	G1		AUTO OPENING. TOUCHLES ACTUATOR IN/OUT FOR NORM HOURS. CARD READ IN AFTE HOURS ONLY.
3002A	CHECK-IN/ CHECK-OUT	WAITING	3' - 0"	7' - 0"	WD	3' - 0"	0"	P2.1b : VISION LITE		HM	F1.1 : STANDARD	0"	0"	01	-		CARD READ IN.
3002A1	CHECK-IN/ CHECK-OUT	WORKROOM	3' - 0"	7' - 0"	WD	3' - 0"	0"	P1.1 : FLUSH		HM	F1.1 : STANDARD	0"	0"	01	-		PASSAGE SET
3002A2	CHECK-IN/ CHECK-OUT	OFFICE	3' - 0"	7' - 0"	WD	3' - 0"	0"	P1.1 : FLUSH		HM	F1.1 : STANDARD	0"	0"	01	-		OFFICE LOCKSET.
3103	CORRIDOR	EXAM	3' - 8"	7' - 0"	WD	3' - 8"	0"	P1.1 : FLUSH			F1.1 : STANDARD	0"	0"	01	-		PASSAGE SET
3105	CORRIDOR	EXAM	3' - 8"	7' - 0"	WD	3' - 8"	0"	P1.1 : FLUSH			F1.1 : STANDARD	0"	0"	01	-		PASSAGE SET
3107	CORRIDOR	EXAM	3' - 8"	7' - 0"	WD	3' - 8"	0"	P1.1 : FLUSH			F1.1 : STANDARD	0"	0"	01	-		PASSAGE SET
3108	CORRIDOR	WORKROOM	3' - 0"	7' - 0"	WD	3' - 0"	0"	P2.1b : VISION LITE			F1.1 : STANDARD	0"	0"	01	G1		PASSAGE SET
3109	CORRIDOR	TREATMENT	3' - 8"	7' - 0"	WD WD	3' - 8"	0"	P1.1 : FLUSH			F1.1 : STANDARD	0"	0"	01	-		PASSAGE SET
3110	CORRIDOR	WORKROOM	3' - 0"	7' - 0"	WD	3' - 0"	0	P1.1 : FLUSH		HM	F1.1 : STANDARD	0"	0"	01	-		PASSAGE SET
3111	CORRIDOR	EXAM ROOM	3' - 8"	7' - 0"	WD	3' - 8"	0"	P1.1 : FLUSH		AL	F4.2 : AD SYSTEMS FRAME	0"	0"	00	-		PASSAGE SET
3117	CORRIDOR	TREATMENT	3' - 8"	7' - 0"	WD	3' - 8"	0"	P1.1 : FLUSH		HM	F1.1 : STANDARD	0"	0"	01	-		PASSAGE SET
3118	CORRIDOR	EXAM	3' - 8"	7' - 0"	WD	3' - 8"	0"	P1.1 : FLUSH		AL	F4.2 : AD SYSTEMS FRAME	0"	0"	00	-		PASSAGE SET
3119	CORRIDOR	EXAM	3' - 8"	7' - 0"	WD	3' - 8"	0"	P1.1 : FLUSH		HM	F1.1 : STANDARD	0"	0"	01	-		PASSAGE SET
3120	CORRIDOR	EXAM	3' - 8"	7' - 0"	WD	3' - 8"	0"	P1.1 : FLUSH		AL	F4.2 : AD SYSTEMS FRAME	0"	0"	00	-		PASSAGE SET
3125	CORRIDOR	EXAM	3' - 8"	7' - 0"	WD	3' - 8"	0"	P1.1 : FLUSH		HM	F1.1 : STANDARD	0"	0"	01	-		PASSAGE SET
3127	CORRIDOR	EXAM	3' - 8"	7' - 0"	WD	3' - 8"	0"	P1.1 : FLUSH		HM	F1.1 : STANDARD	0"	0"	01	-		PASSAGE SET
3129	RR	CORRIDOR	3' - 8"	7' - 0"	WD	3' - 8"	0"	P1.1 : FLUSH	-	HM	F1.1 : STANDARD	0"	0"	06	-		PRIVACY SET, RESCUE HARDWARE
3130	CORRIDOR	EXAM	3' - 8"	7' - 0"	WD	3' - 8"	0"	P1.1 : FLUSH		HM	F1.1 : STANDARD	0"	0"	01	-		PASSAGE SET
3141	CORRIDOR	SOILED HOLDING	3' - 0"	7' - 0"	WD	3' - 0"	0"	P1.1 : FLUSH		HM	F1.1 : STANDARD	0"	0"	01			CARD READ IN, CLOSER.
3142	CORRIDOR	ULTRASOUND	3' - 8"	7' - 0"	WD	3' - 8"	0"	P1.1 : FLUSH		HM	F1.1 : STANDARD	0"	0"	01	-		PASSAGE SET
3143	CORRIDOR	OFFICE	3' - 0"	7' - 2"	WD	3' - 0"	0"	P1.1 : FLUSH		AL	F4.2 : AD SYSTEMS FRAME	0"	0"	00	-		OFFICE LOCKSET.
3144	CORRIDOR	ULTRASOUND	3' - 8"	7' - 0"	WD	3' - 8"	0"	P1.1 : FLUSH		HM	F1.1 : STANDARD	0"	0"	01	-		PASSAGE SET
3150	CORRIDOR	ULTRASOUND	3' - 8"	7' - 0"	WD	3' - 8"	0"	P1.1 : FLUSH		HM	F1.1 : STANDARD	0"	0"	01	-		PASSAGE SET
3151	ULTRASOUND	CORRIDOR	3' - 8"	7' - 0"	WD	3' - 8"	0"	P1.1 : FLUSH			F1.1 : STANDARD	0"	0"	01	-		PASSAGE SET
3152	CORRIDOR	ULTRASOUND	3' - 8"	7' - 0"	WD	3' - 8"	0"	P1.1 : FLUSH		HM	F1.1 : STANDARD	0"	0"	01	-		PASSAGE SET
3153	CORRIDOR	RR	3' - 8"	7' - 0"	WD	3' - 8"	0"	P1.1 : FLUSH		HM	F1.1 : STANDARD	0"	0"	06	-		PRIVACY SET, RESCUE HARDWARE
3154	CORRIDOR	ULTRASOUND	3' - 8"	7' - 0"	WD	3' - 8"	0"	P1.1 : FLUSH		HM	F1.1 : STANDARD	0"	0"	06	-		 PRIVACY SET, RESCUE HARDWARE
3155	CORRIDOR	READING ROOM	3' - 0"	7' - 0"	WD	3' - 0"	0"	P1.1 : FLUSH			F1.1 : STANDARD	0"	0"	01	-		PASSAGE SET
3156	CONFERENCE	CORRIDOR	3' - 0"	7' - 0"	WD	3' - 0"	0"	P1.1 : FLUSH			F1.1 : STANDARD	0"	0"	01	-		PASSAGE SET
3157	CORRIDOR	WORKROOM	3' - 0"	7' - 0"	WD	3' - 0"	0"	P2.1b : VISION LITE			F1.1 : STANDARD	0"	0"	01	G1		PASSAGE SET, NO CLOSE
3203	CORRIDOR	PAR SUPPLY	3' - 0"	7' - 0"	WD	3' - 0"	0"	P2.1b : VISION LITE		HM	F1.1 : STANDARD	0"	0"	01	G1		CARD READ IN.
3206	CORRIDOR	CLEAN SCOPE STORAGE	3' - 0"	7' - 0"	WD	3' - 0"	0"	P2.1b : VISION LITE			F1.1 : STANDARD	0"	0"	01	G1		CARD READ IN.
3207	CORRIDOR	SOILED HOLDING	3' - 0"	7' - 0"	WD	3' - 0"	0"	P2.1b : VISION LITE			F1.1 : STANDARD	0"	0"	01	G1		 CARD READ IN.
3210	CORRIDOR	CLEAN UTILITY	3' - 0"	7' - 0"	WD	3' - 0"	0"	P2.1b : VISION LITE			F1.1 : STANDARD	0"	0"	01	G1		 CARD READ IN.
C3108 C3109	CORRIDOR	CORRIDOR	3' - 8" 3' - 8"	7' - 0" 7' - 0"	WD	3' - 8" 3' - 8"	0"	P1.1 : FLUSH			F1.1 : STANDARD F1.1 : STANDARD	0"	0" 0"	01	-		CARD READ IN. AUTO OPENING, TOUCHLES
					WD		U	P1.1 : FLUSH				0"	0	01	-		ACTUATOR IN & OUT.
C3112	CORRIDOR	CORRIDOR	4' - 0"	7' - 0"	WD	4' - 0"	0"	P1.1 : FLUSH		HM	F1.1 : STANDARD	0"	0"	01	-		 CARD READ IN.

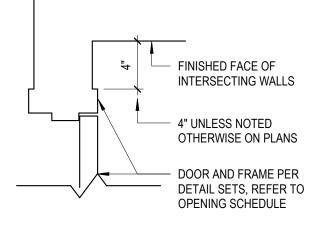




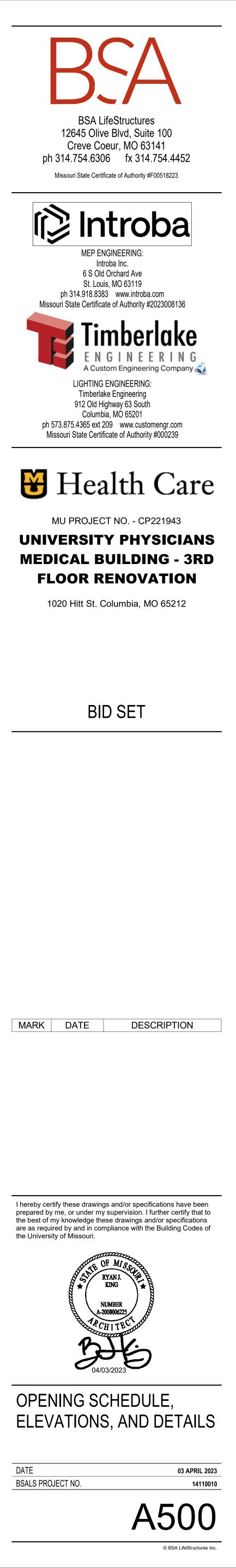




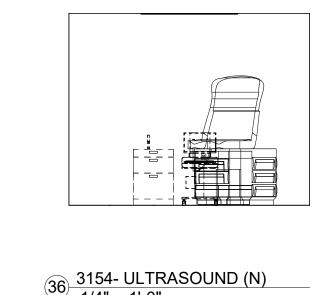




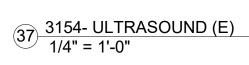
FRAME LIT WIDTH ONN 2"	E	OPENING WIDTH	FF	RAME LITE WIDTH 2"
1' - 6"	Ŵ	GLASS	Ŵ	
5	11		Ŵ	
OPENING HEIGHT	GLASS		GLASS	
	//		Ŵ	
F6.2	DC	OUBLE BORROW WITH TR		RAME

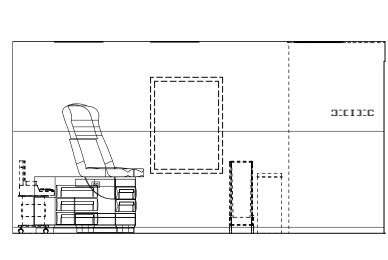


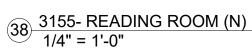


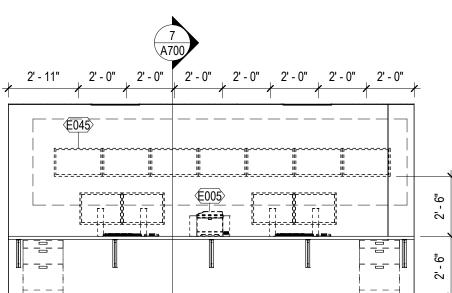


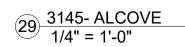
1/4" = 1'-0"

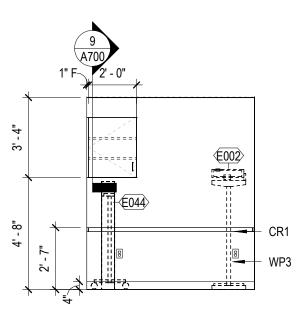


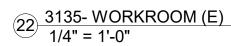


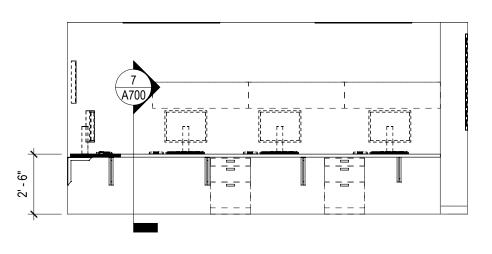


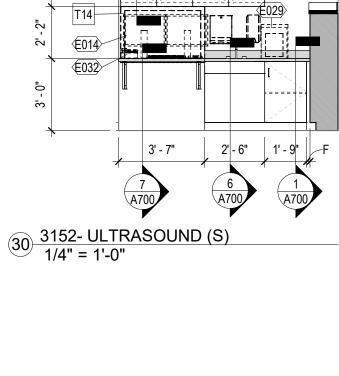












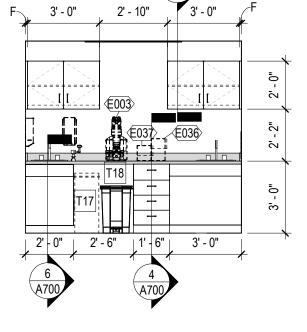
23 <u>3141- SOILED UTILITY</u> 1/4" = 1'-0"

3' - 0" 3' - 0"

9 A700

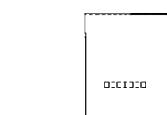
1" F∖

**b** 



9 A700

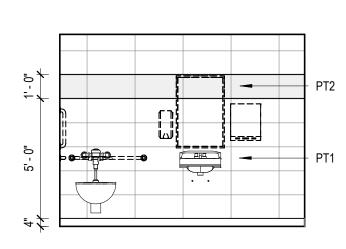




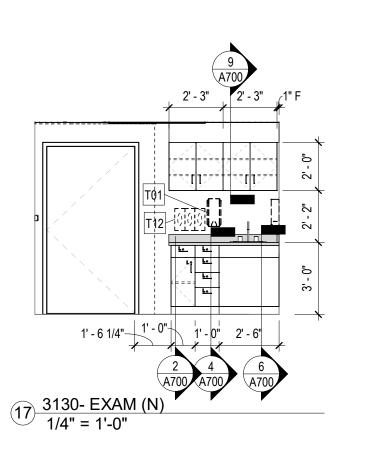
(15) <u>3129- RESTROOM (N)</u> 1/4" = 1'-0"

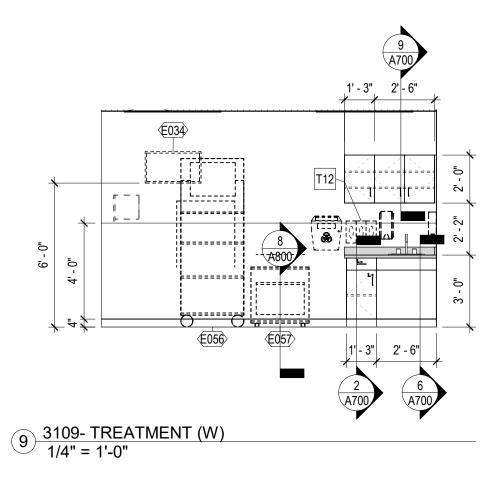
51

(16) <u>3129- RESTROOM (E)</u> 1/4" = 1'-0"



(10) <u>3110- WORKROOM (N)</u> 1/4" = 1'-0"



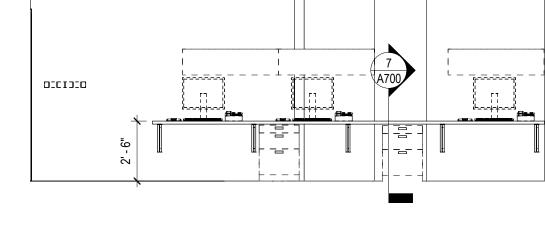


– PT1

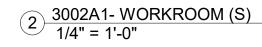
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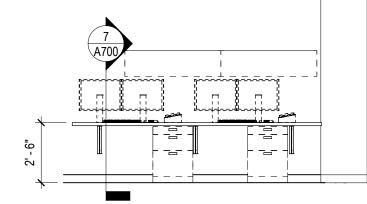
**0**=======**0** 

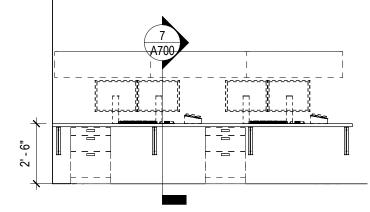


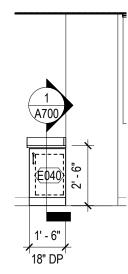
1 3002A1- WORKROOM (N) 1/4" = 1'-0"





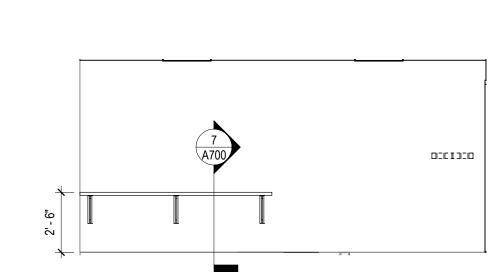


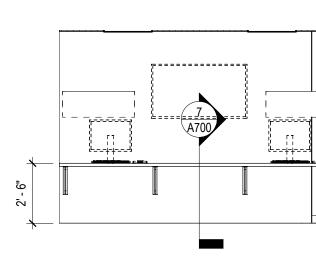




39 3155- READING ROOM (S) 1/4" = 1'-0"

40 <u>3156- CONFERENCE</u> 1/4" = 1'-0"





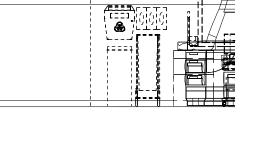


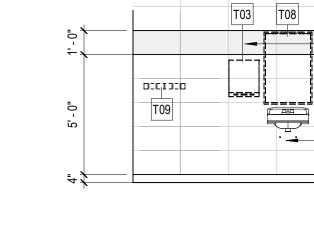








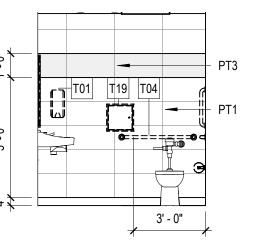




(33) 3153- RESTROOM (E) 1/4" = 1'-0"

26 3144- ULTRASOUND (W) 1/4" = 1'-0"

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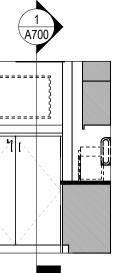


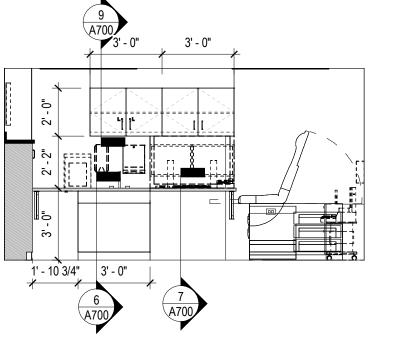
24 <u>3142- ULTRASOUND (N)</u> 1/4" = 1'-0"

6 1 A701 A700

1" F 2' - 0"

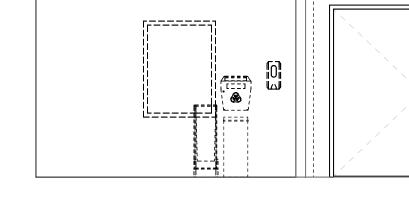
(31) <u>3152- ULTRASOUND (W)</u> 1/4" = 1'-0"

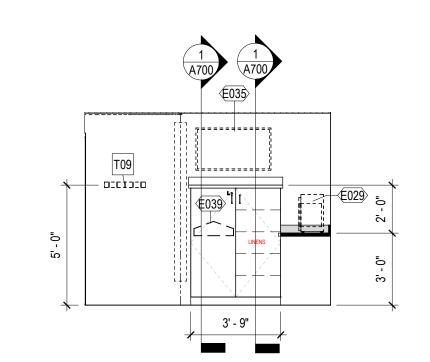




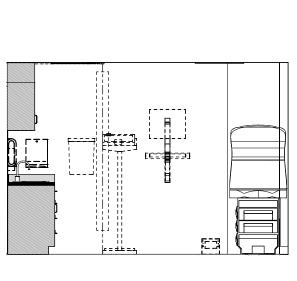
25 <u>3142- ULTRASOUND (E)</u> 1/4" = 1'-0"

0:010:0





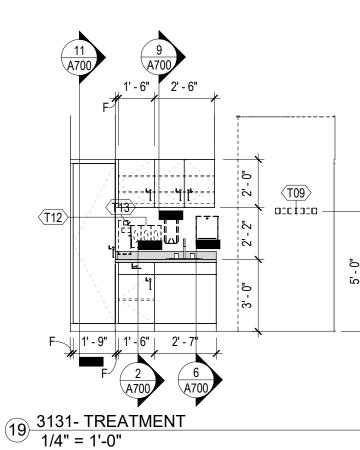
18 <u>3130- EXAM (E)</u> 1/4" = 1'-0"

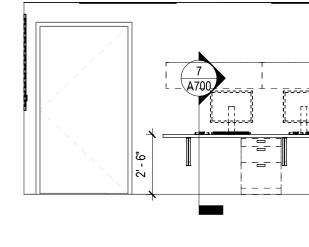


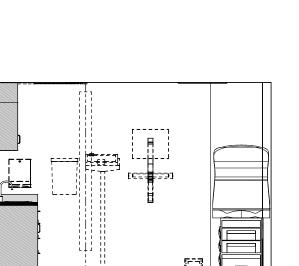
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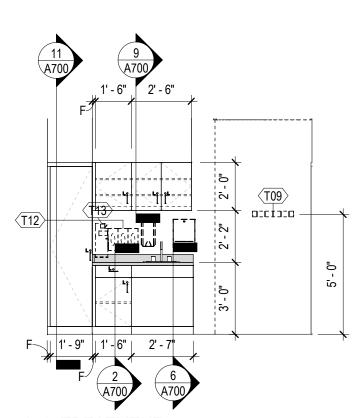
(11) <u>3110- WORKROOM (S)</u> 1/4" = 1'-0"

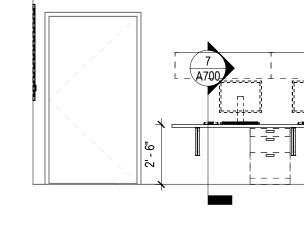
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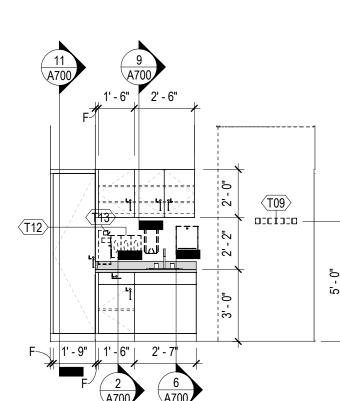


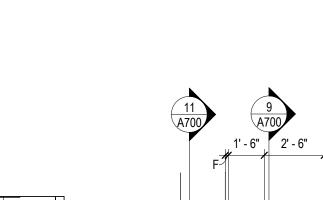




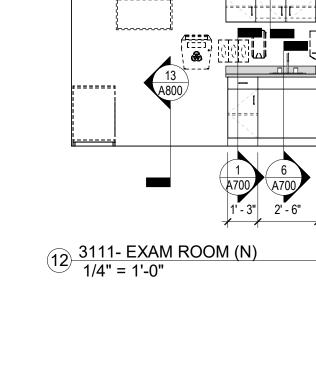


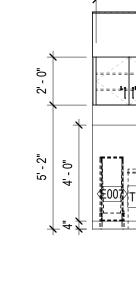






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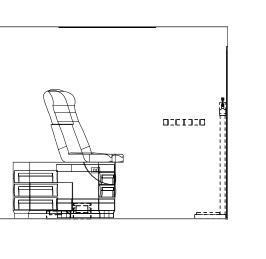


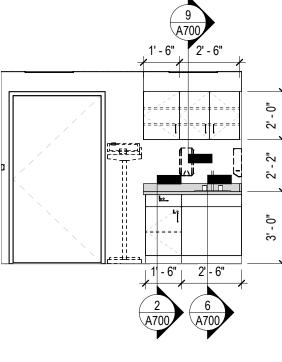
13 <u>3121- TREATMENT (W)</u> 1/4" = 1'-0"

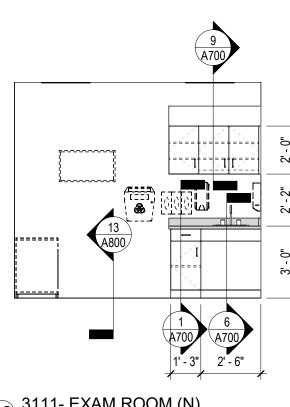
(4) <u>3105- EXAM (E)</u> 1/4" = 1'-0"

5 <u>3105- EXAM (S)</u> 1/4" = 1'-0"

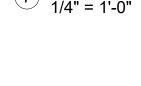
-Fill

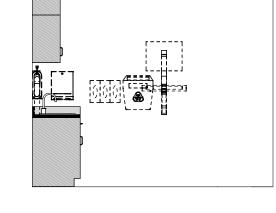


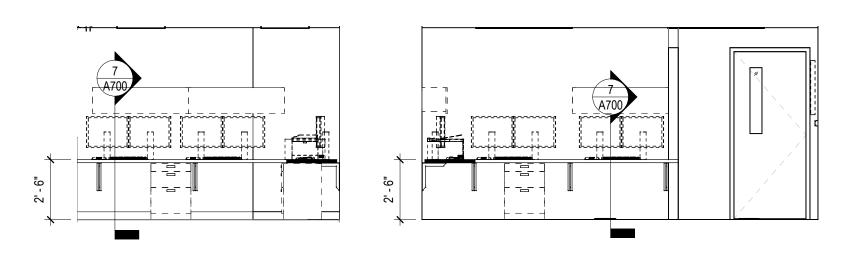




6 <u>3105- EXAM (W)</u> 1/4" = 1'-0"



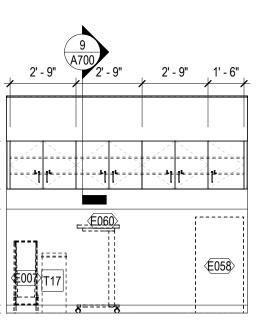


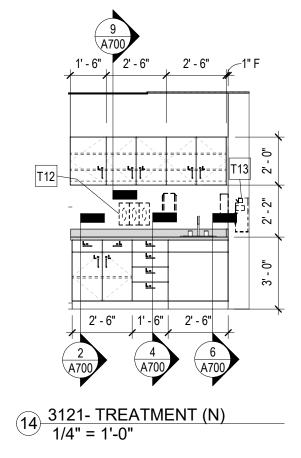


8 3108- WORKROOM (N) 1/4" = 1'-0"

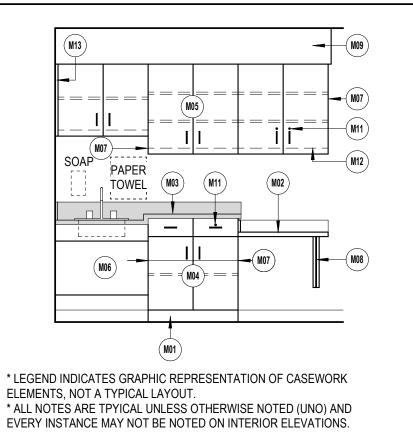
20 3135- WORKROOM (W) 1/4" = 1'-0"

# 7 <u>3108- WORKROOM (W)</u> 1/4" = 1'-0"



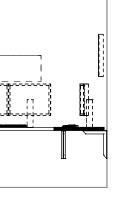


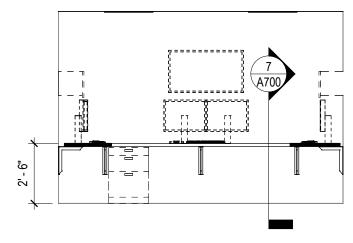
## CASEWORK LEGEND



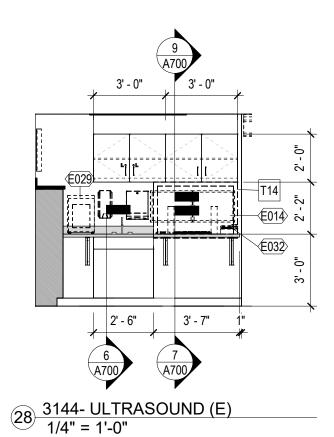
## KEYNOTE LEGEND

	REFER TO A000 FOR GENERAL NOTES
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 DOOR(S), DRAWER(S), LOCK(S) AND SHELVE(S) AS INDICATED.
M05	12" CLEAR INTERIOR DIMENSION (UNO) WALL CABINET, CONFIGURE DOOR(S), LOCK(S) AND ADJUSTABLE SHELVE(S) 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.
M09	GYPSUM BULKHEAD CONSTRUCTION TO BE 1" DEEPER AND 1" LONGER THAN CASEWORK BELOW (UNO).
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.

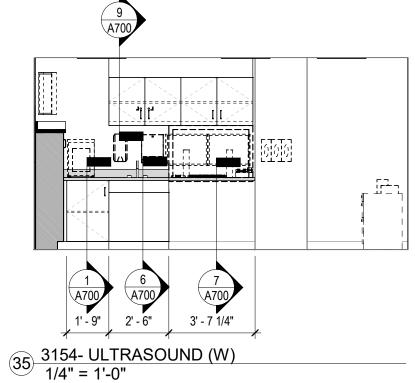




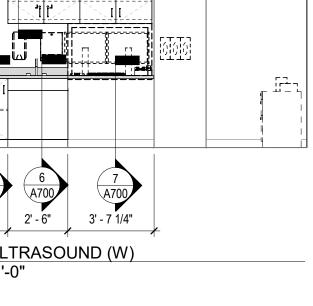
(21) <u>3135- WORKROOM (N)</u> 1/4" = 1'-0"



# 27 <u>3144- ULTRASOUND (N)</u> 1/4" = 1'-0"

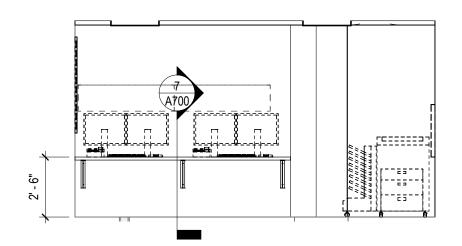


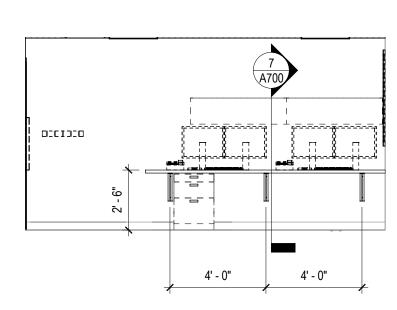
(34) <u>3153- RESTROOM (S)</u> 1/4" = 1'-0"

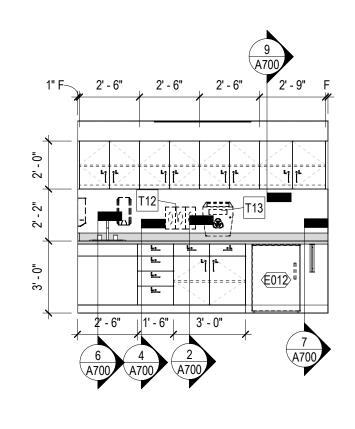




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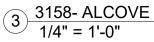


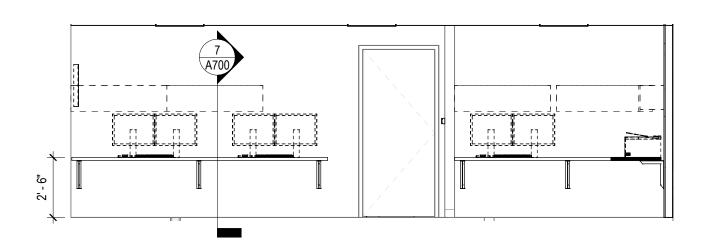


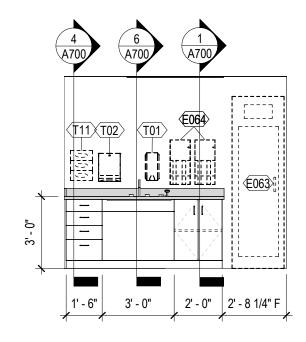


1) 3157- WORKROOM (N) 1/4" = 1'-0"

2 3157- WORKROOM (S) 1/4" = 1'-0"

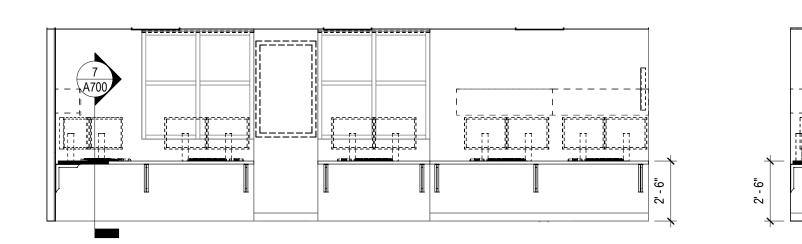




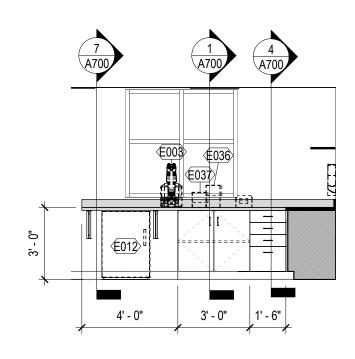


6 <u>3204- WORKROOM (S)</u> 1/4" = 1'-0"

7 <u>3206- CLEAN SCOPE STORAGE</u> 1/4" = 1'-0"



4 <u>3204- WORKROOM (N)</u> 1/4" = 1'-0"

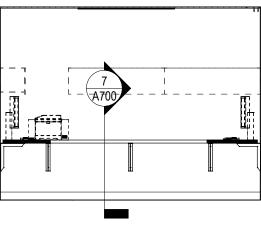


8 3207- SOILED UTILITY (N) 1/4" = 1'-0"

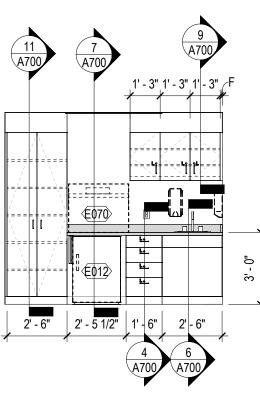
6 A700 7 A700 ङ्यान्त् 2' - 1" 2' - 6" 1' - 8 1/4" 3' - 0"

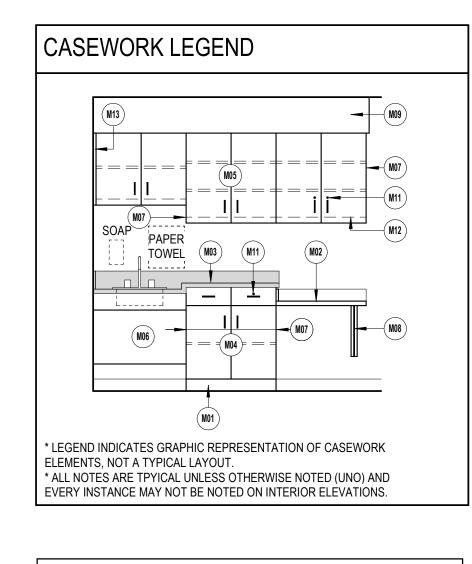
9 <u>3207- SOILED UTILITY (E)</u> 1/4" = 1'-0"

10 3210- CLEAN UTILITY 1/4" = 1'-0"



5 <u>3204- WORKROOM (E)</u> 1/4" = 1'-0"

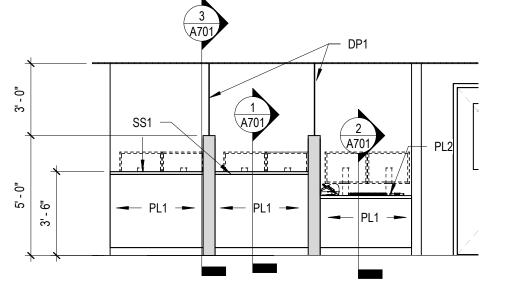


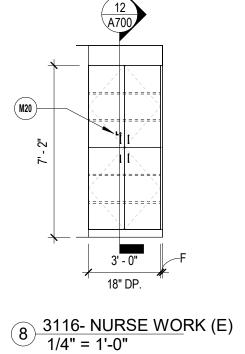


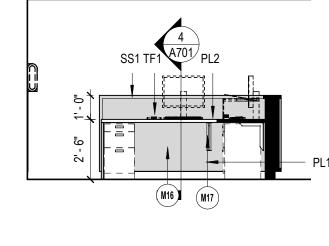
KEYNOTE LEGEND REFER TO A000 FOR GENERAL NOTES



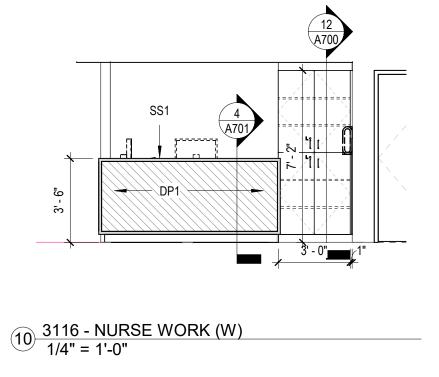




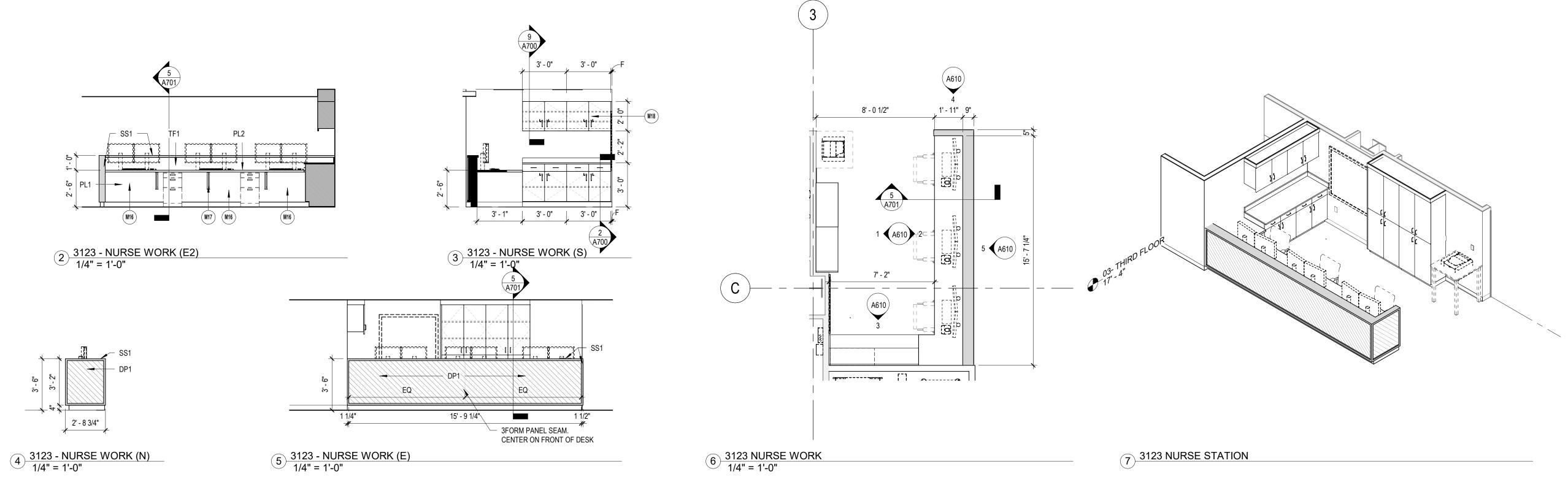


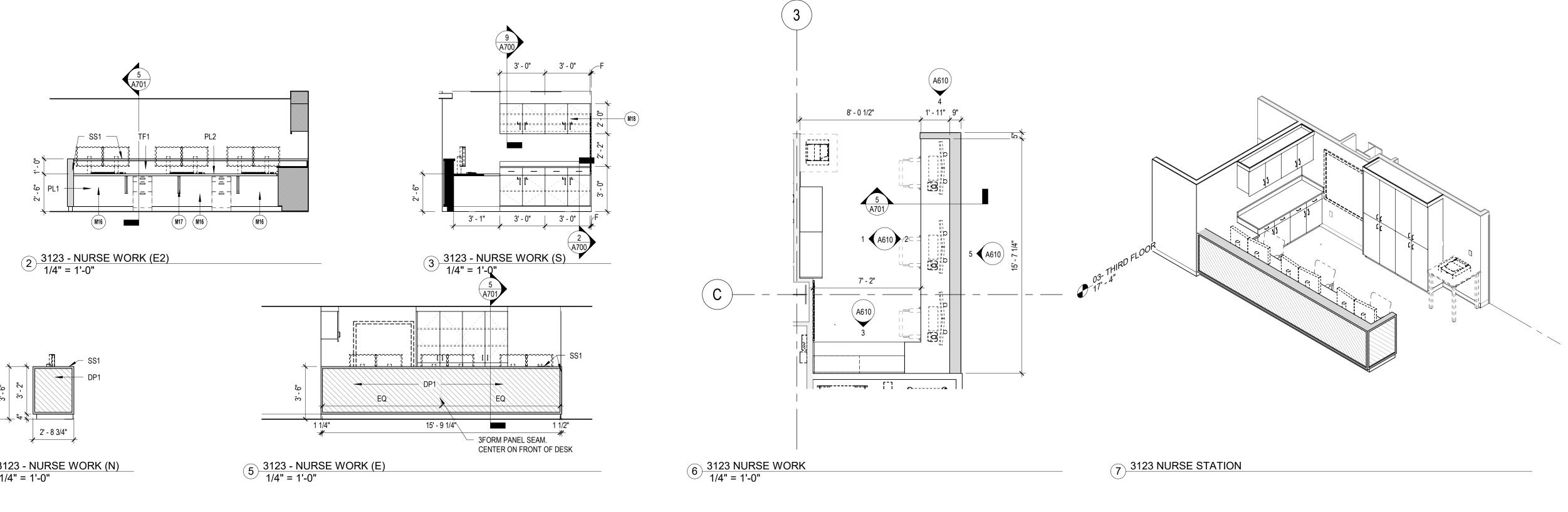


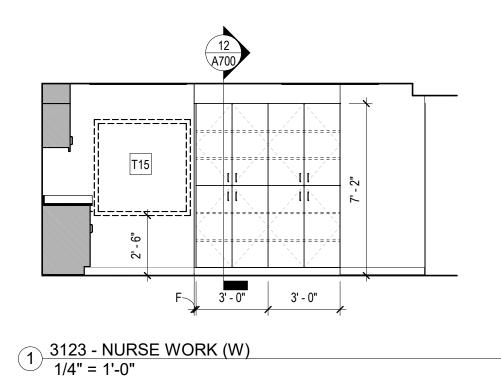
9 <u>3116- NURSE WORK (W2)</u> 1/4" = 1'-0"

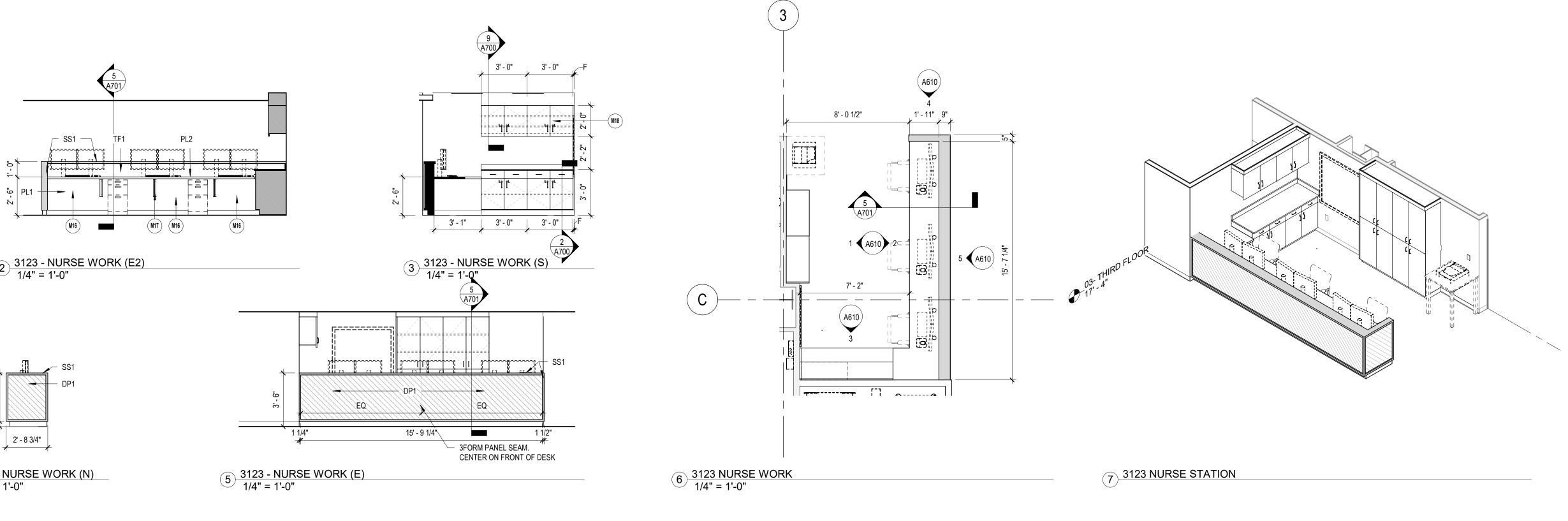


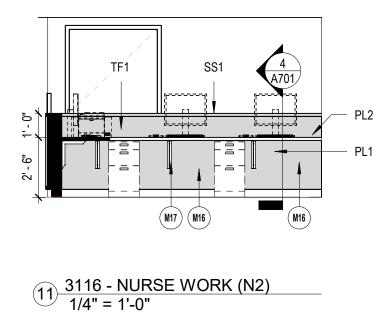
PL1

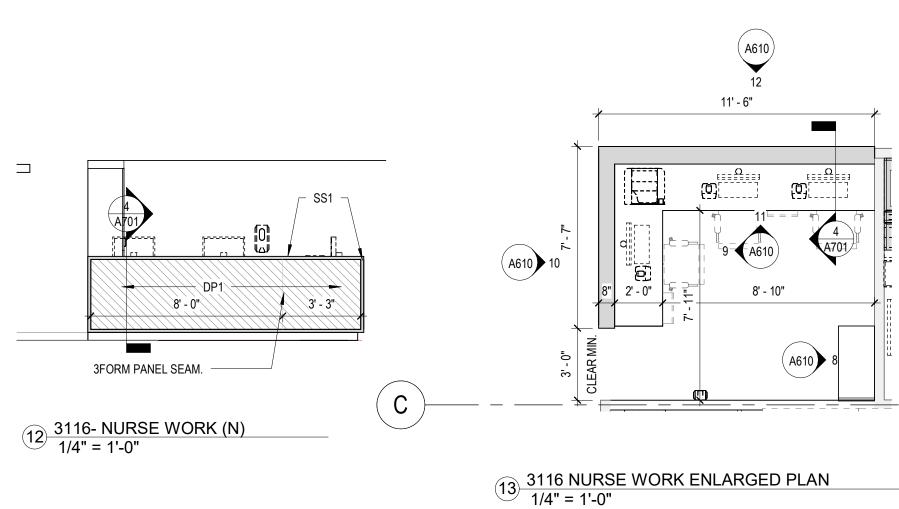


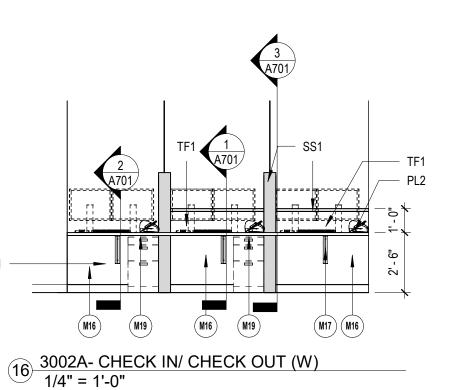


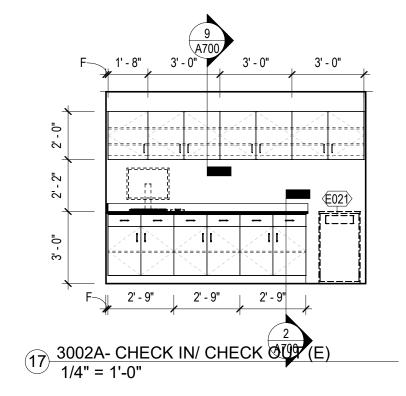


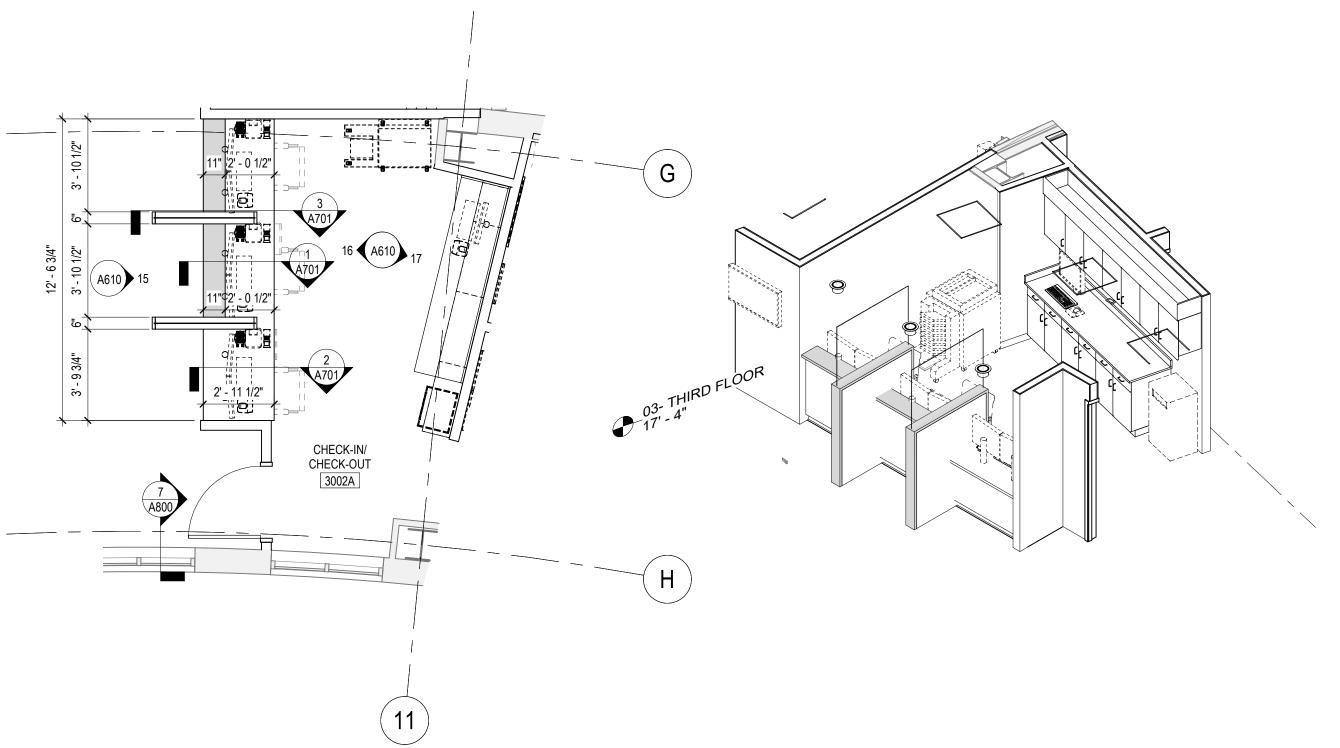




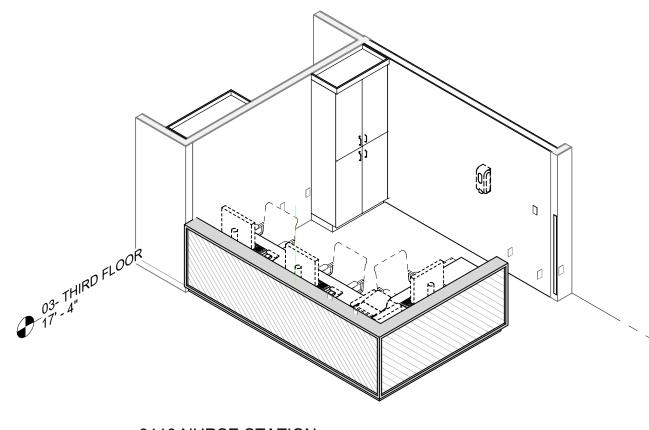






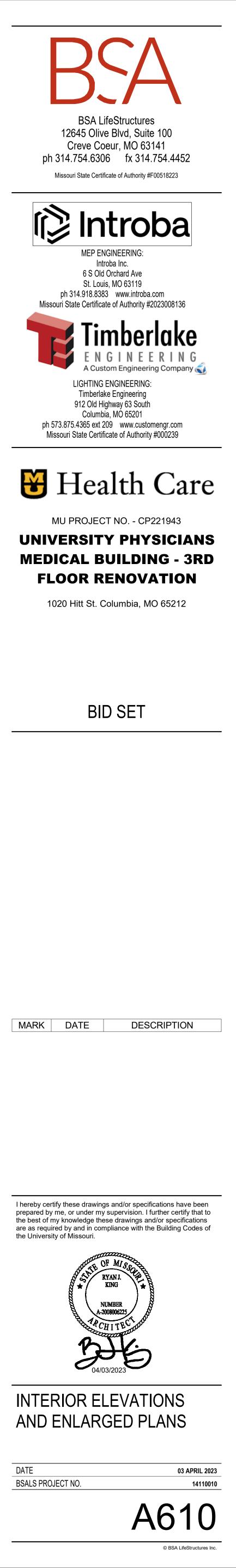


3002A - CHECK IN/CHECK OUT 18 ENLARGED PLAN 1/4" = 1'-0"

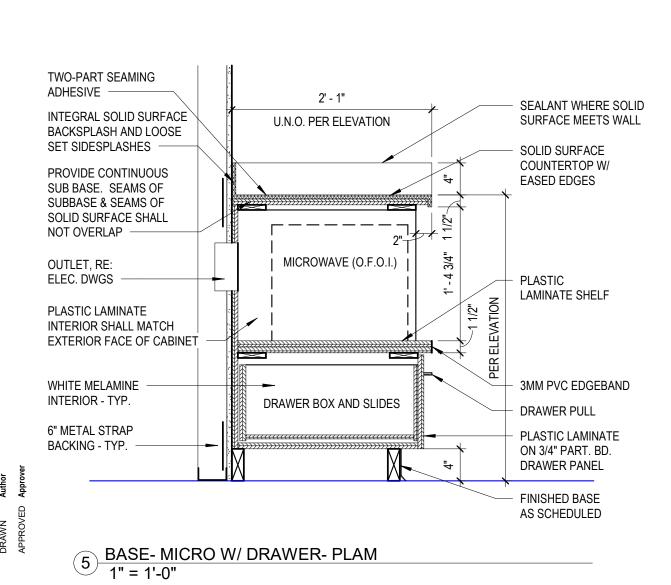


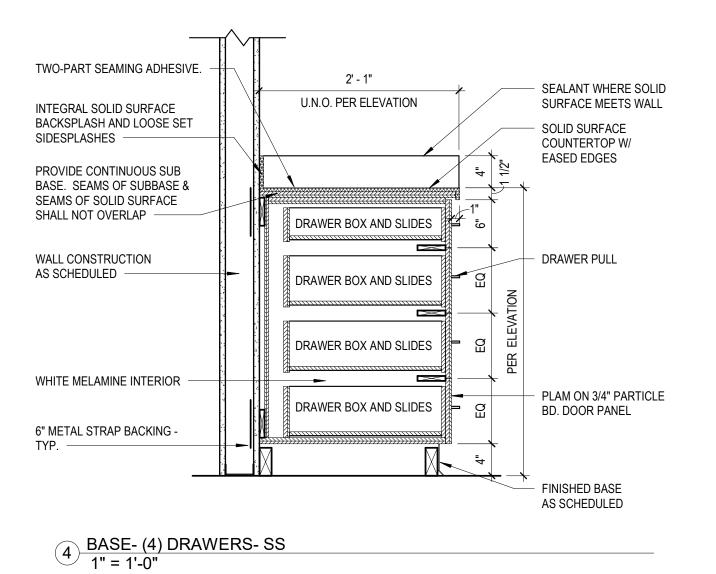
(14) 3116 NURSE STATION

(19) 3002A- CHECK IN/ CHECK OUT



# 3/30/2023 4:30:20 PM BIM 360://14110010 - UPMB Renovation - 3rd Floor/14110010-ARCH\_BSALS\_v2021.rvt DESIGNED Designer





FINISHED CEILING.

- P-LAM SOFFIT PANEL

PLAM ON 3/4" PART.

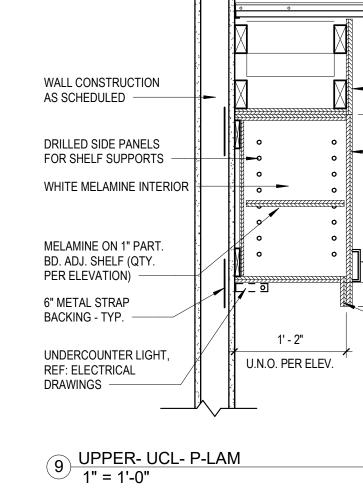
BD. DOOR PANEL

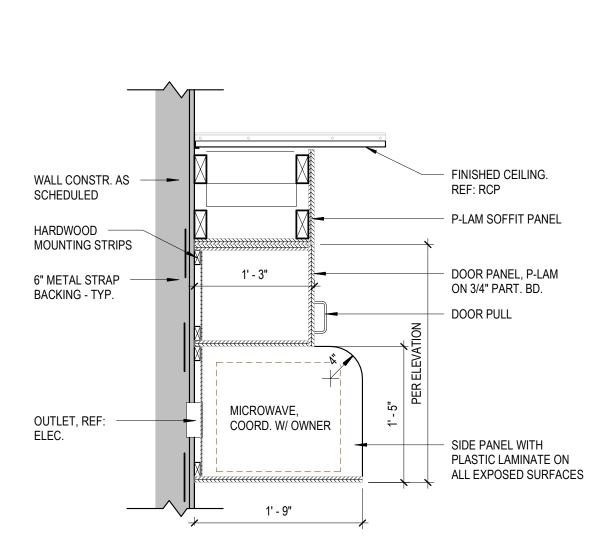
DOOR PULL

- PLAM ON 3/4" PART.

BD. LIGHT VALANCE

REF: RCP



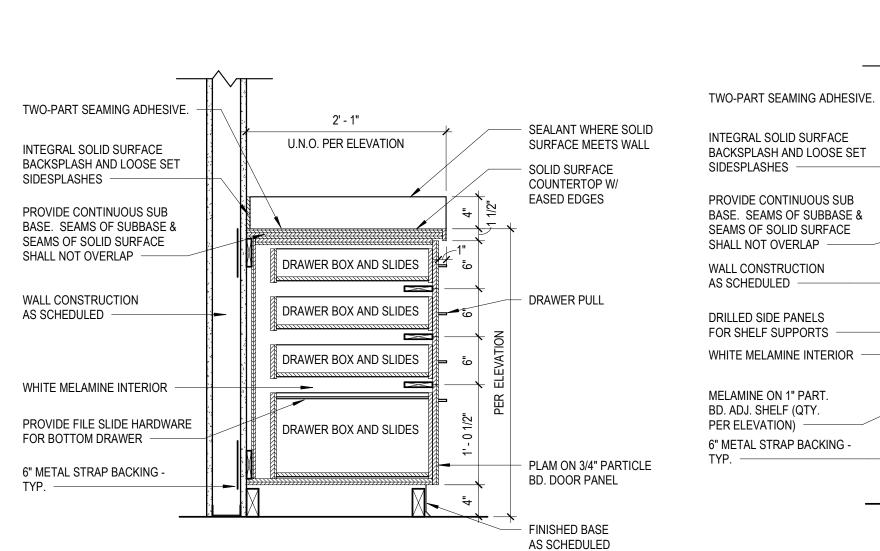


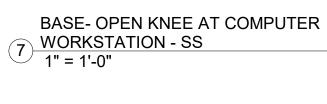
10 UPPER- MICRO - GB 1" = 1'-0"

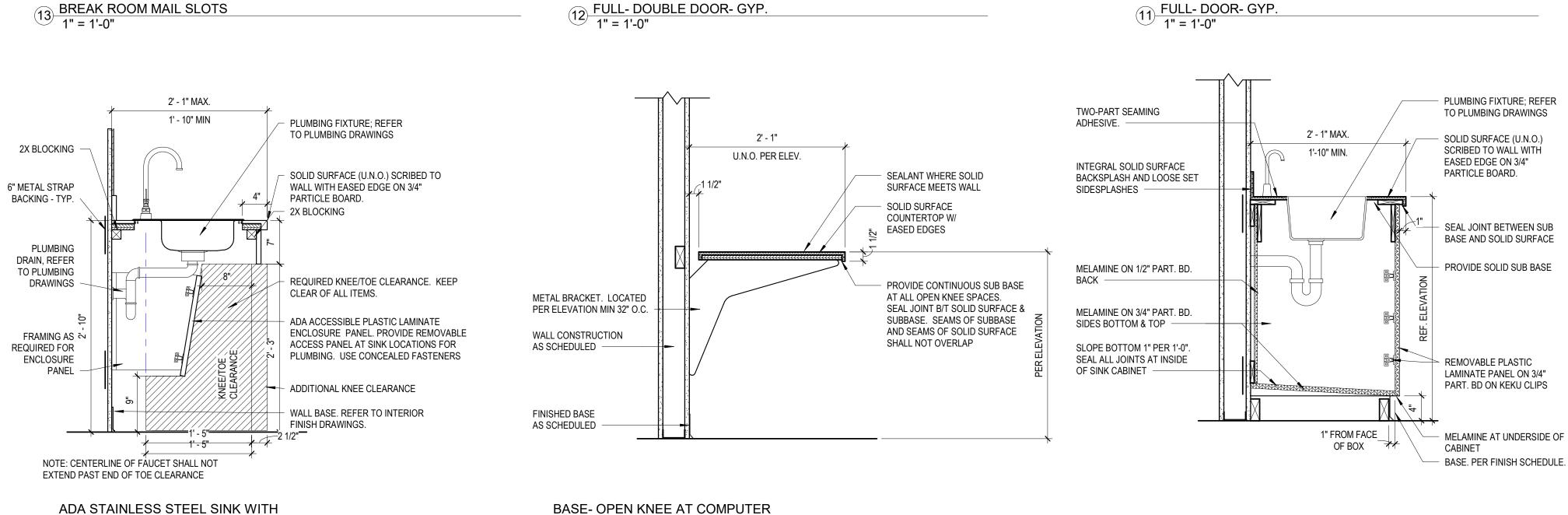
> 3 BASE- (3) DRAWERS (1) FILE- SS 1" = 1'-0"

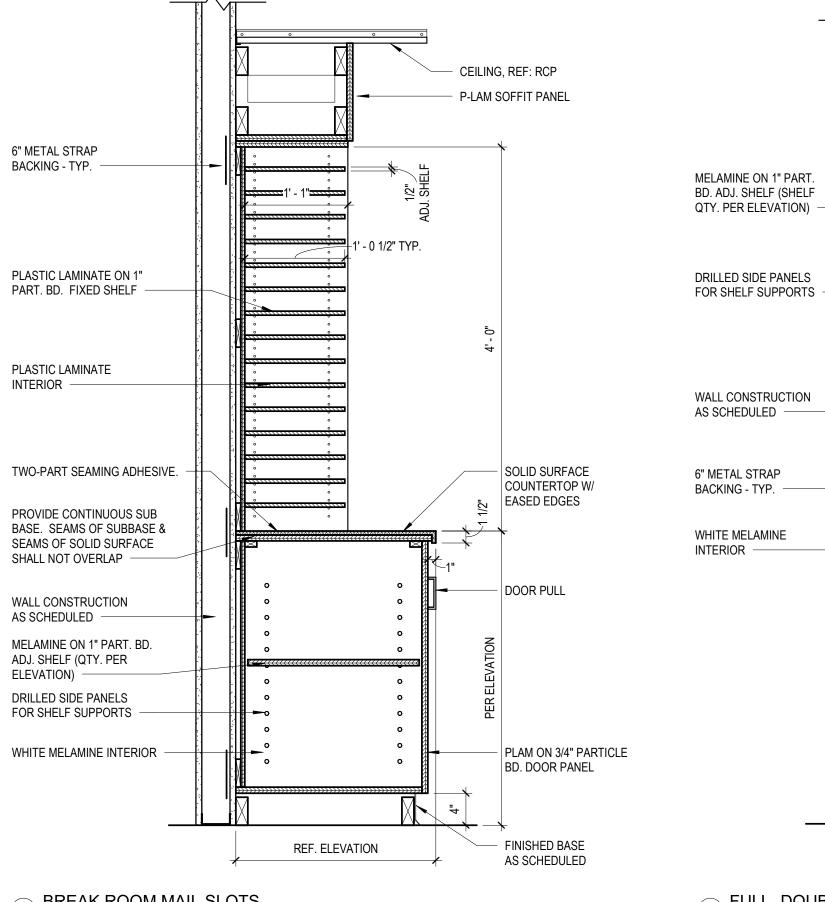
8 REMOVABLE PANEL - SECTION 1" = 1'-0"

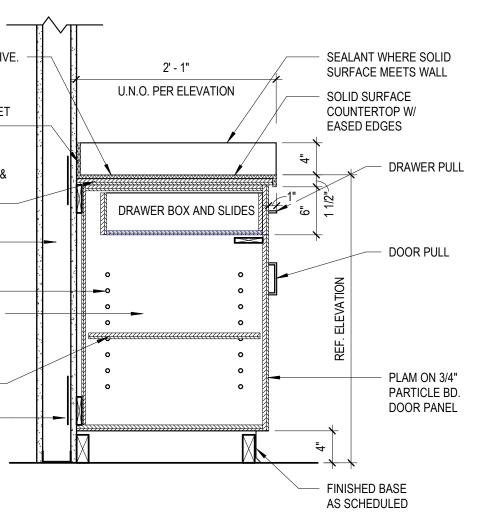
> 2 BASE- DOOR W/ DRAWER- SS 1" = 1'-0"

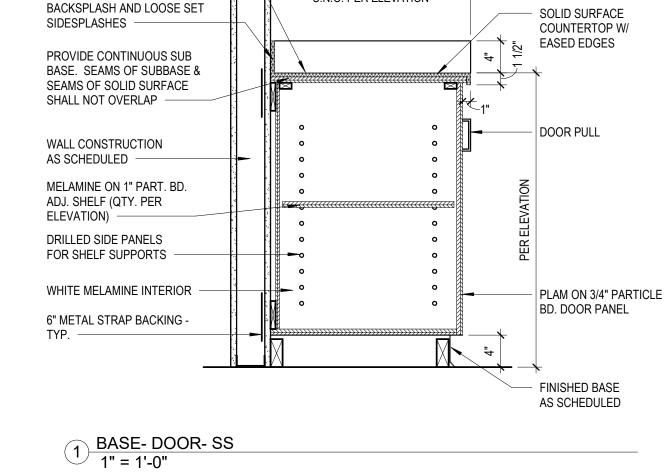












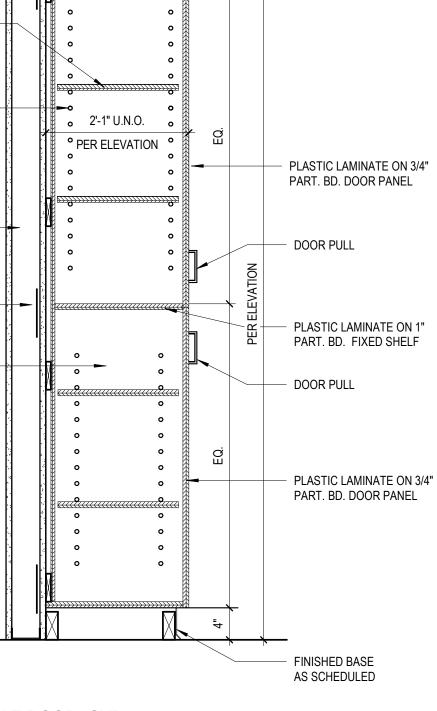
2' - 1"

U.N.O. PER ELEVATION

6 BASE- SINK 1" = 1'-0"

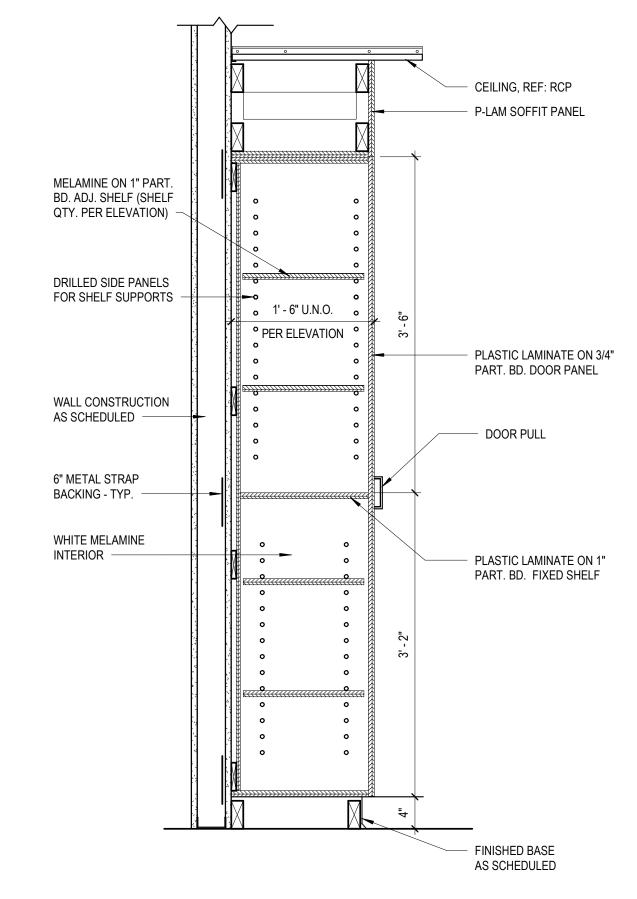
TWO-PART SEAMING ADHESIVE.

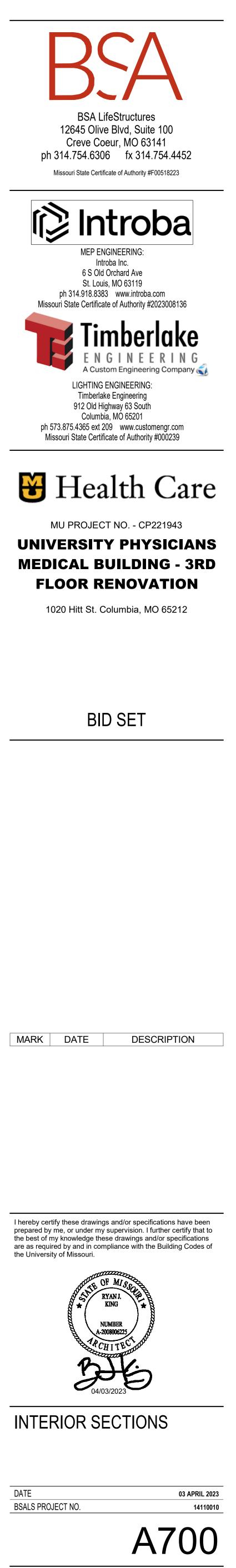
INTEGRAL SOLID SURFACE



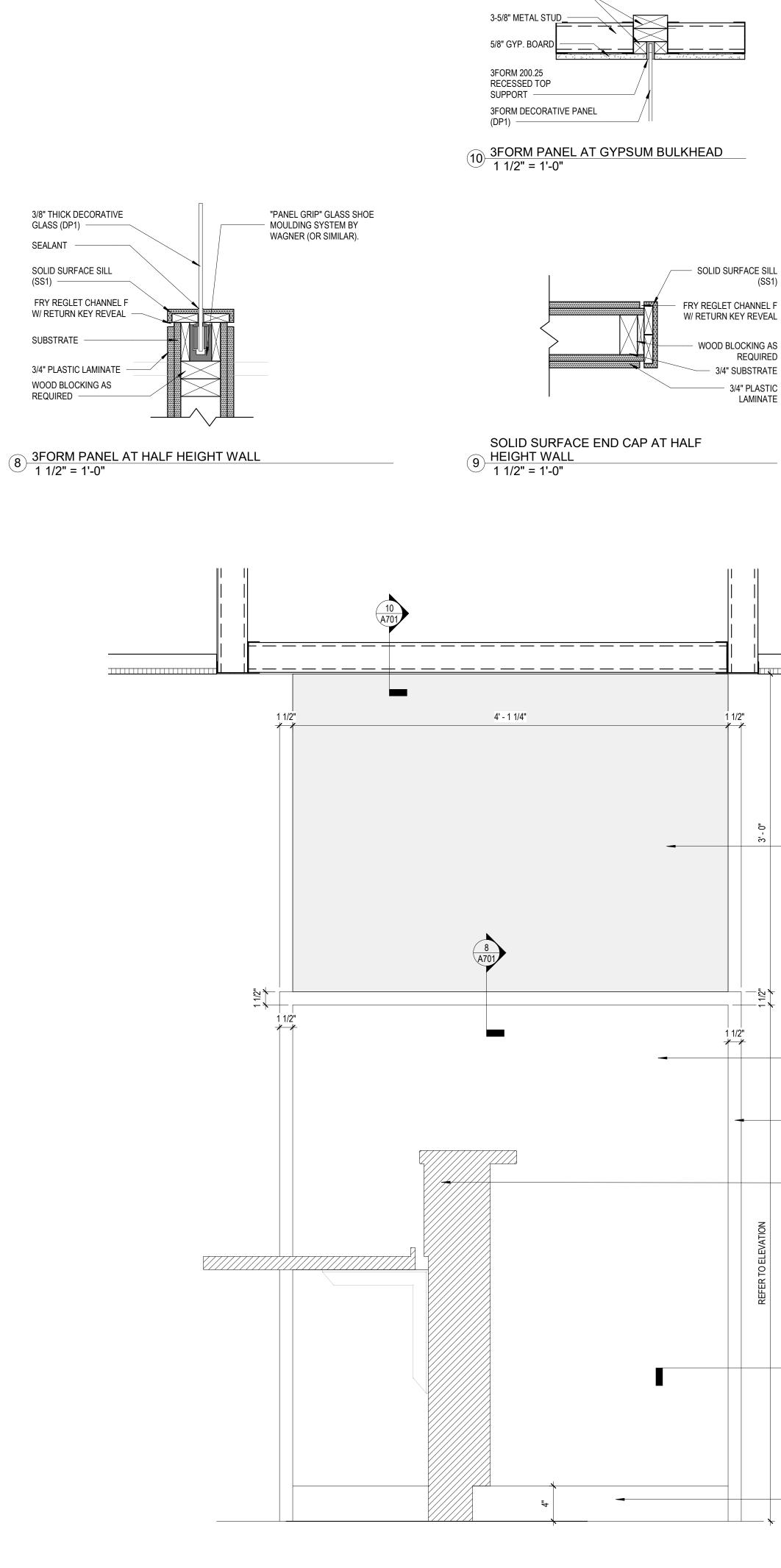
- CEILING, REF: RCP

P-LAM SOFFIT PANEL





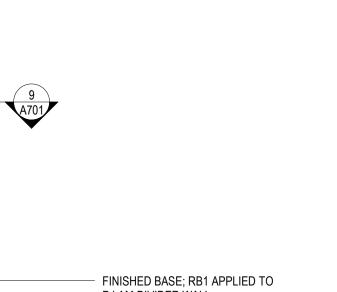
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WOOD BLOCKING AS

REQUIRED —

CHECK-IN/CHECK-OUT DESK SECTION -3 DIVIDER 1 1/2" = 1'-0"

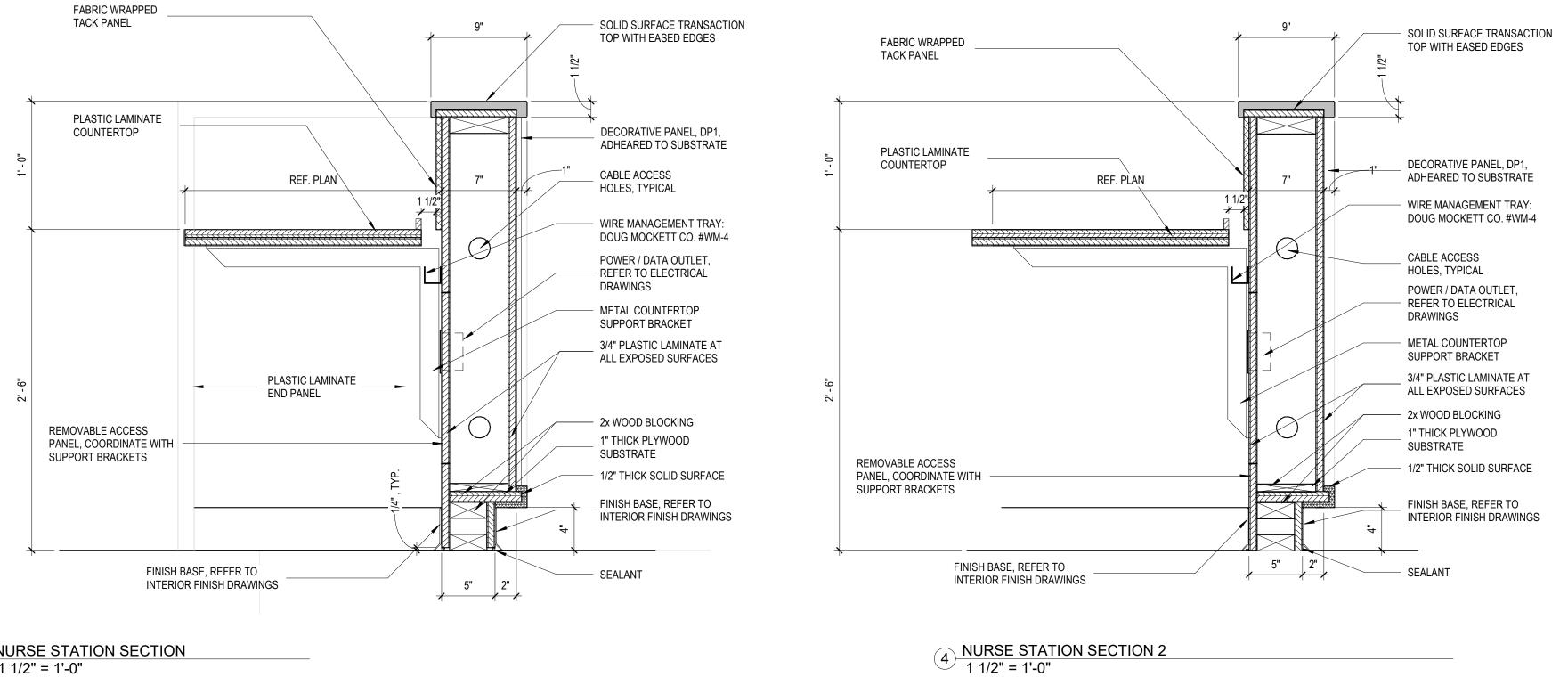


- SOLID SURFACE FRAME; SS1 REFER TO ENLARGED PLAN FOR DESK INFORMATION

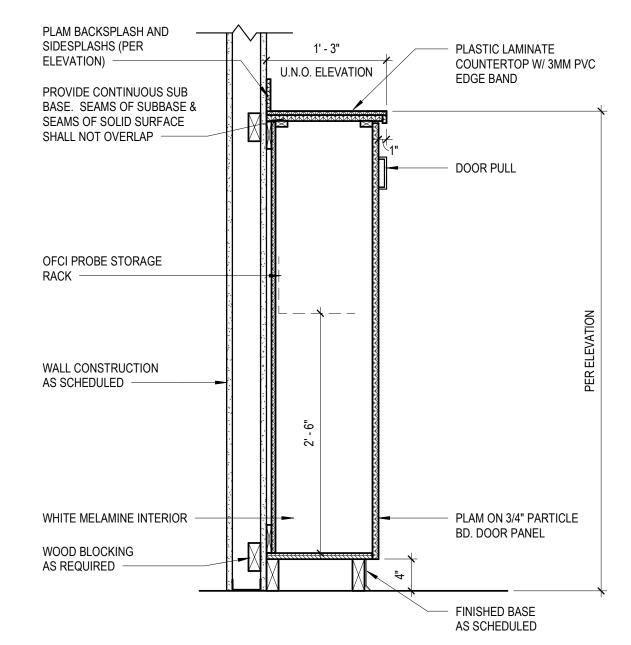
GROMMET. COORDINATE LOCATIONS WITH OWNER PLASTIC LAMINATE COUNTERTOP REF. PLAN REMOVABLE ACCESS PANEL, COORDINATE WITH SUPPORT BRACKETS FINISH BASE, REFER TO - SEALANT 5" 2" INTERIOR FINISH DRAWINGS CHECK-IN/CHECK-OUT DESK SECTION -

5 NURSE STATION SECTION 1 1/2" = 1'-0"

2 ADA 1 1/2" = 1'-0"



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

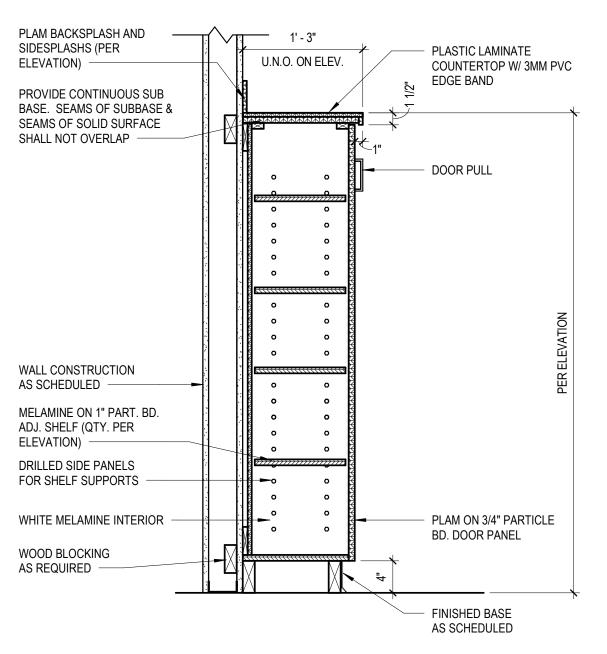


EASED AND POLISHED.

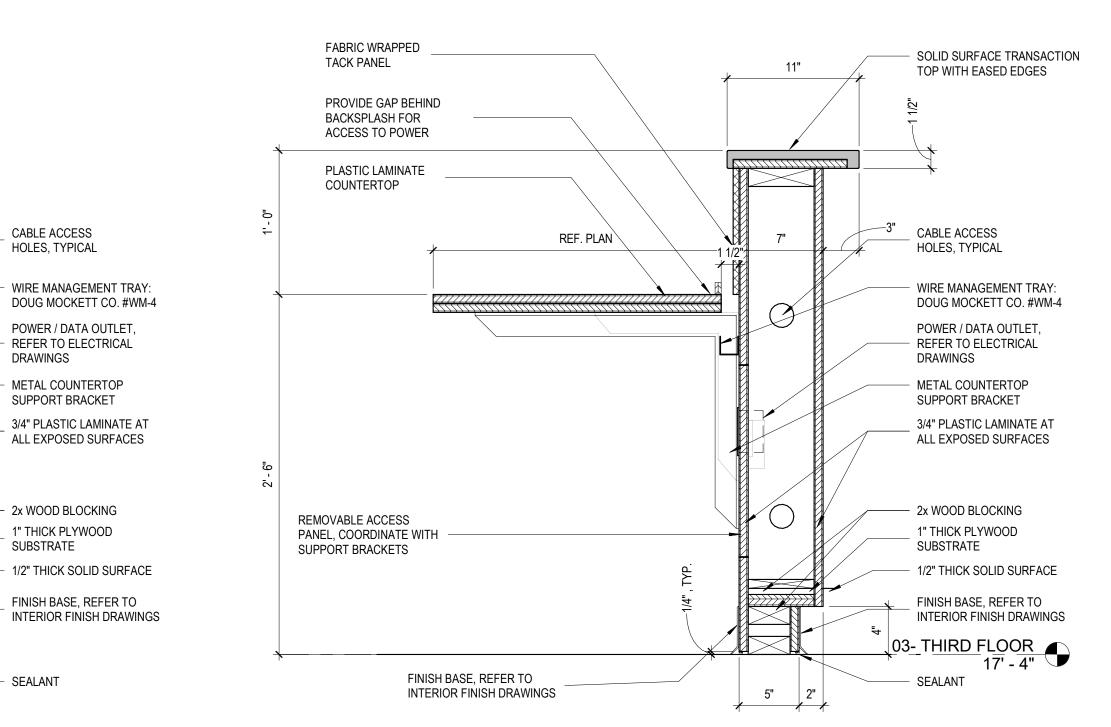
- PLASTIC LAMINATE; PL1

ALL EXPOSED EDGES TO BE

DECORATIVE PANEL, DP2.



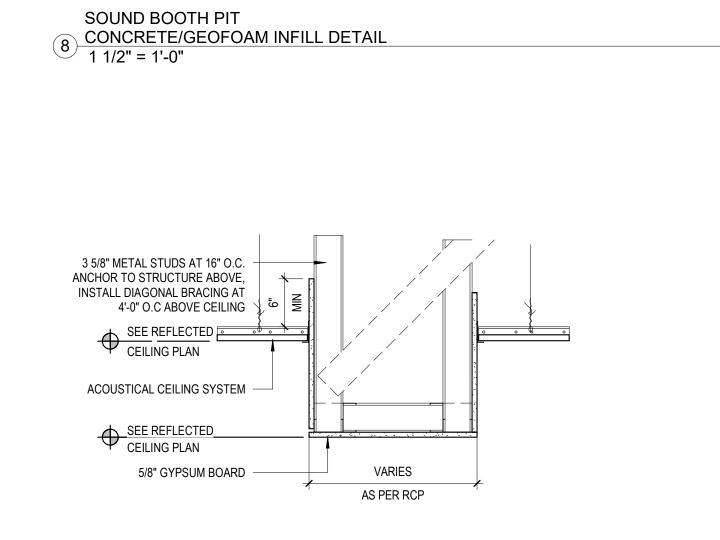
6 SECTION @ LINEN SHELVES 1" = 1'-0"

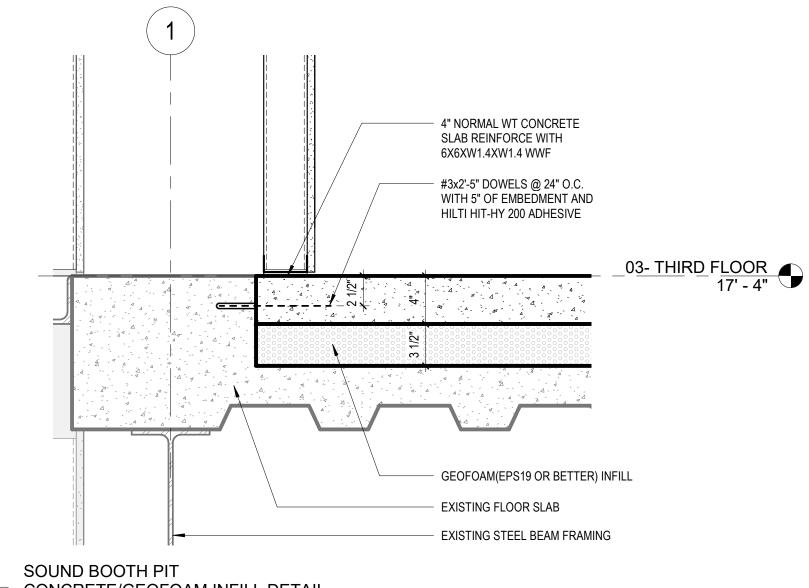


1 CHECK-IN/CHECK-OUT DESK SECTION 1 1/2" = 1'-0"

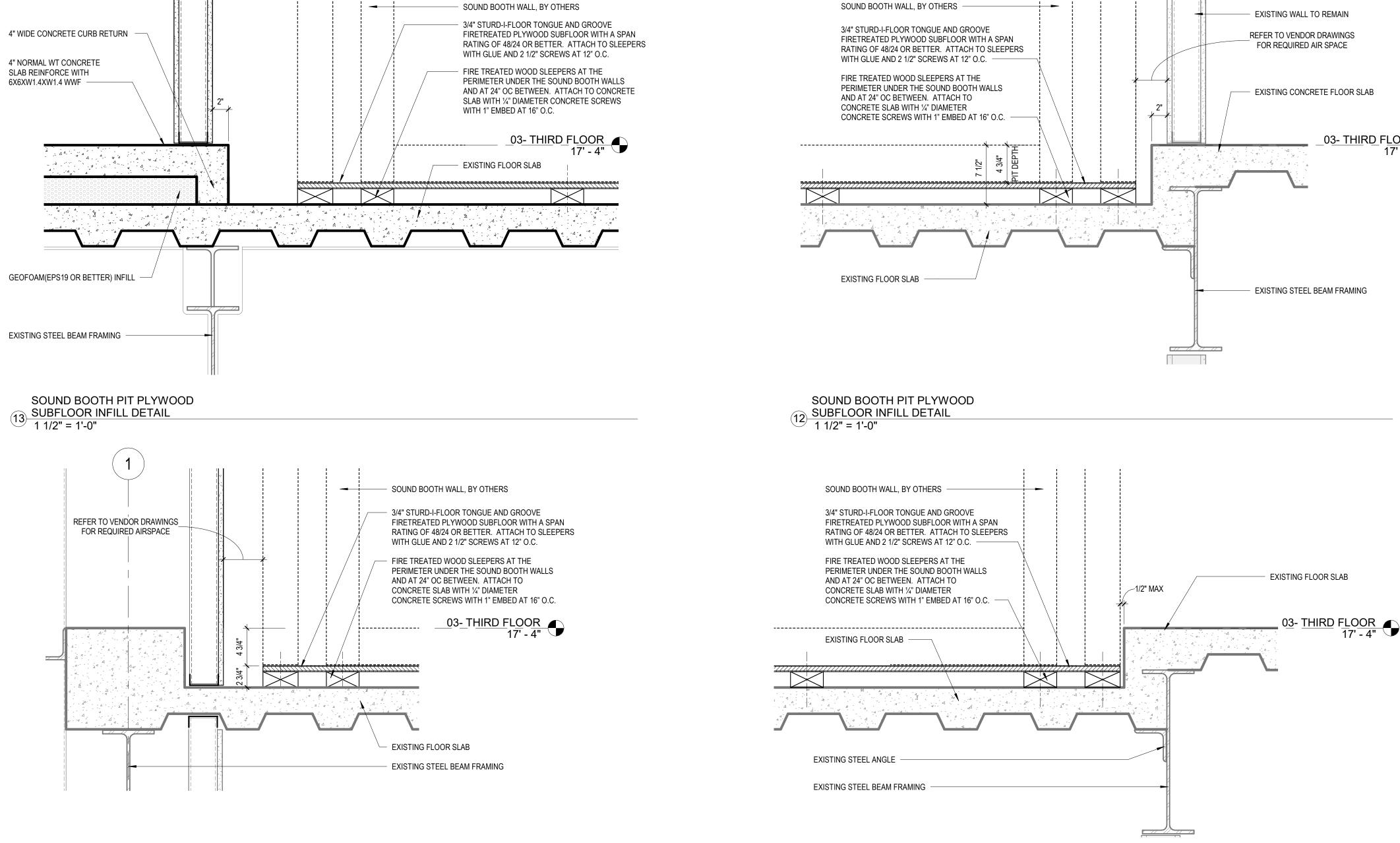


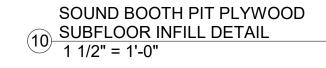
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#### SOUND BOOTH PIT PLYWOOD 11 <u>SUBFLOOR INFILL DETAIL</u> 1 1/2" = 1'-0"





EXISTING EXTERIOR WALL

SUSPENSION GRID -ACT GRID SYSTEM -

MANUAL SINGLE ROLLER SHADE

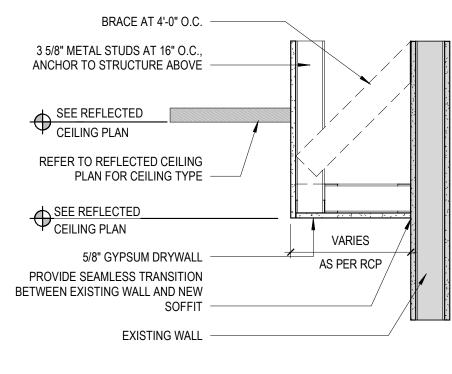
**ROLLER SHADE DETAIL - SINGLE** 7 SURFACE MOUNT 1 1/2" = 1'-0"

3 5/8" METAL STUDS AT 16" O.C., ANCHOR TO STRUCTURE ABOVE

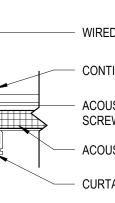
ACOUSTICAL CEILING SYSTEM -

5/8" GYPSUM DRYWALL REFER TO PLAN FOR WALL TYPE FACE OF CASEWORK, SOME LOCATIONS

2 SOFFIT AT CASEWORK 1" = 1'-0"



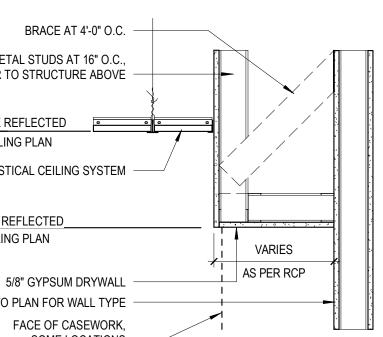
(14) SOFFIT AT SOUND BOOTHS 1" = 1'-0"

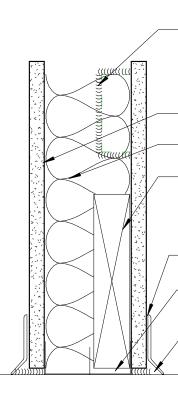


WIRED TO STRUCTURE ABOVE AS REQUIRED CONTINUOUS STUD OVER TRACK ACOUSTIC TILE TUBE SPACER AT SCREW; SCREWS AT 24" O.C. ACOUSTICAL TILE CEILING AND GRID CURTAIN TRACK

3 5/8" METAL STUDS AT 4'-0" O.C. CEILING PLAN *.* % ACOUSTICAL CEILING SYSTEM NESTED STRUCTURAL STUDS SOME LOCATIONS VARIES

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





 $1 \frac{\text{CORRIDOR BASE DETAIL - TYPICAL}}{3" = 1'-0"}$ 

6 MOUNT 1 1/2" = 1'-0"

- SCHEDULED BASE

- METAL RUNNER TRACK SECURED W/ POWDER DRIVEN FASTENERS AT 24" O.C. PROVIDE SEALANT AT BOTH SIDES OF ALL

PARTITIONS. PROVIDE FIRE STOPPING SEALANT AT RATED PARTITIONS AND ACOUSTICAL SEALANT AT ALL OTHERS

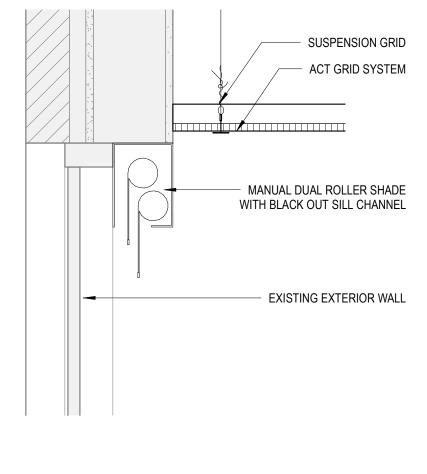
- SOUND ATTENUATING WHERE REQUIRED BY PARTITION TYPE - FIRE TREATED 2 "X8" WOOD BLOCKING AT ALL CORRIDOR WALLS (CORRIDOR SIDE ONLY)

ACOUSTICAL SEALANT FOR PARTITIONS WITH S.A.F.B. & FIRE STOP SEAL. NO. LAYERS OF GYP. BD. AS INDICATED ON PARTITION TYPE

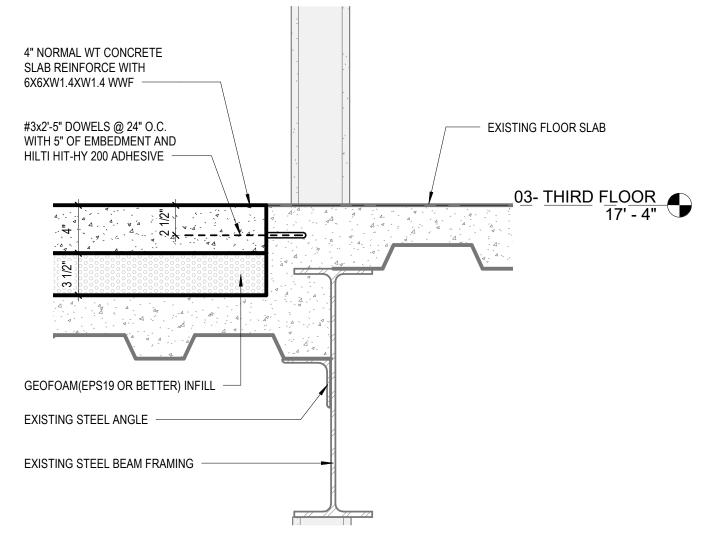
- SEAL TOP, BOTTOM, BACK AND SIDES

OF ALL MECH, AND ELEC. DEVICES W/

ROLLER SHADE DETAIL - DUAL SURFACE



#### SOUND BOOTH PIT 9 CONCRETE/GEOFOAM INFILL DETAIL 1 1/2" = 1'-0"

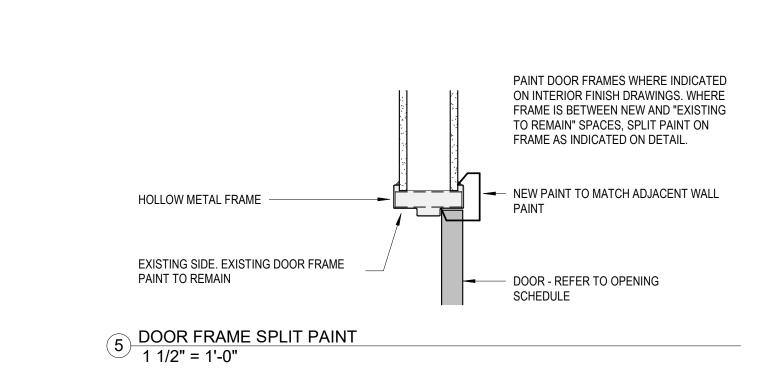


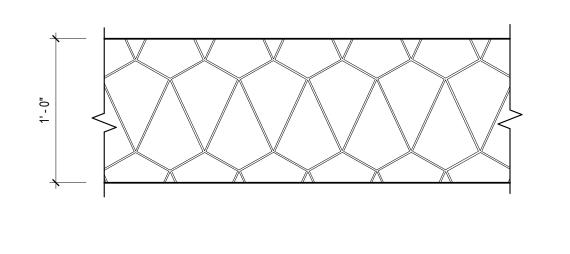
\_0<u>3- THIRD</u> F<u>LOOR</u> 17' - 4"



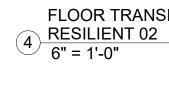
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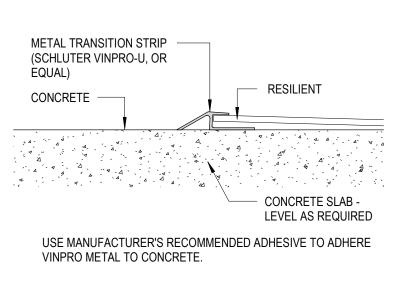


6 DETAIL - PT2 LAYOUT 1 1/2" = 1'-0"



## INTERIORS, FINISH SPECIFICATIONS, ORG

			INTERIO	RS- FINISH SP	ECIFICATIONS-ORG		
MARK:	MANUFACTURER:	STYLE:	NUMBER:	COLOR:	SIZE:	COMMENTS:	CONTACT:
PET							
	MANNINGTON COMMERCIAL	SEEDS	83377	PHOENIX	18" x 36"	VERTICAL ASHLAR INSTALLATION METHOD	KRISTEN KOMIS, KRISTEM_KOMIS@MANNINGTON.COM
IER GUARE							
IER GUARL	CS GROUP	ACROVYN CORNER GUARD	SM-20AN #305	MUSHROOM #305	4' TALL CORNER GUARD	BOTTOM OF CORNER GUARD TO START AT TOP OF BASE	RED RAMSEY, RRAMSEY@MMMSTLKC.COM
H RAIL							
	INPRO	2500 CHAIR RAIL	0258	CHINO	2" PROFILE	-	TOM FORSTER, TFORSTER@INPROCORP.COM
CLE CURTA	IN						
	MOMENTUM	SONG	09194986	JULEP	72" WIDTH, RAILROADED. REPEAT: 75	ON THE RIGHT TRACK TRACK SYSTEM - ORDER (x2) AMOUNT	MICHELE LAND, MLAND@MOMTEX.COM
					1/2"V, 24-12"H	SHOWN	
ORATIVE PA							
	3FORM	VARIA ECORESIN GO-GO - SANDSTONE	1/4" THICK	CASTAWAY		AVALANCE OPAQUE BACKER. DECORATIVE PANEL TO BE	MELISSA BEITHMAN, MELISSA.BEITHMAN@3-FORM.COM
		FINISH				ADHERED TO SUBSTRATE	
	3FORM	INTERLAYERS - SANDSTONE FINISH	1/2" THICK	WHISPER			MELISSA BEITHMAN, MELISSA.BEITHMAN@3-FORM.COM
XY PAINT							
	SHERWIN WILLIAMS	REFER TO PROJECT MANUAL	SW 7036	ACCESSIBLE BEIGE			HANK MEINKING, HANK.MEINKING@SHERWIN.COM
JRY VINYL 1			07/2/10/000				KRIGTEN KOMIG KRIGTEN KOMIGOMANNINGTON COM
1 2	MANNINGTON COMMERCIAL MANNINGTON COMMERCIAL	ACCESS / WOOD COLOR ANCHOR: STRIDE	SX5W8000 C138	ASHDOWN PLUM COTTONTAIL	6" X 36", 0.098" THICKNESS 6" X 36"		KRISTEN KOMIS, KRISTEM_KOMIS@MANNINGTON.COM KRISTEN KOMIS, KRISTEM_KOMIS@MANNINGTON.COM
-				CC. Crthile			
Т							
	SHERWIN WILLIAMS	REFER TO PROJECT MANUAL	SW 7036	ACCESSIBLE BEIGE			
	SHERWIN WILLIAMS SHERWIN WILLIAMS	REFER TO PROJECT MANUAL REFER TO PROJECT MANUAL	SW 0012 SW 7617	EMPIRE GOLD MEDITERRANEAN			HANK MEINKING, HANK.MEINKING@SHERWIN.COM HANK MEINKING, HANK.MEINKING@SHERWIN.COM
	SHERWIN WILLIAMS	REFER TO PROJECT MANUAL	SW 6193	PRIVILEGE GREEN			HANK MEINKING, HANK.MEINKING@SHERWIN.COM
	SHERWIN WILLIAMS	REFER TO PROJECT MANUAL	SW 7710	BRANDYWINE			HANK MEINKING, HANK.MEINKING@SHERWIN.COM
	SHERWIN WILLIAMS	REFER TO PROJECT MANUAL	SW 9038	CUCUZZA VERDE			HANK MEINKING, HANK.MEINKING@SHERWIN.COM
	SHERWIN WILLIAMS	REFER TO PROJECT MANUAL	SW 0020	PEACOCK PLUME			HANK MEINKING, HANK.MEINKING@SHERWIN.COM
	SHERWIN WILLIAMS	REFER TO PROJECT MANUAL	SW 7007	CEILING BRIGHT WHITE			HANK MEINKING, HANK.MEINKING@SHERWIN.COM
							·
TIC LAMINA			705714 70				
	WILSONART WILSONART		7957K-78 4990-38	ZANZIBAR FLAX LINEN			PATTY EGAN, PEAGAN@WILSONART.COM PATTY EGAN, PEAGAN@WILSONART.COM
	FORMICA		5886-43	SORREL CHERRY		· · · · ·	BROOKE CORCORAN, BROOKE.COCORAN@FORMICA.COM
CELAIN TILE							
	CROSSVILLE	SHADES 2.0	SHD42.11224UPS	VAPOR SEMI-POLISHED	12" X 24", 9.5 MM THICKNESS	STACKED, GROUT:TEC'S #940 ANTIQUE WHITE GROUT, GROUT	NIKKI STELLOH, NIKKI.STELLOH@VIRGINIATILE.COM
	FIRECLAY TILE	KITE		KELP	5.5" X 7.5", 5/16" THICKNESS	JOINT 3MM WIDE SEE DETAIL 6/IF000 FOR INSTALLATION, GROUT:TEC'S #940	DAVE SPAULDING, DAVE@FIRECLAYTILE.COM
						ANTIQUE WHITE GROUT, GROUT JOINT 3MM WIDE	DAVE SI AGEDING, DAVE WI INECENT HEL.COM
	TILEBAR	NABI VALOR		DEEP EMERALD	9.25" X 11.75" SHEET, 10 MM	STACKED, GROUT:TEC'S #940 ANTIQUE WHITE GROUT, GROUT	SCOTT SIEGAL, SSIEGAL@TILEBAR.COM
					THICKNESS	JOINT 3MM WIDE - BASEMENT ALTERNATE #1: GROUT:TEC'S #903 BIRCH GROUT	
	DALTILE	FABRIQUE	P689	CREME LINEN	12" X 24", 5/16" THICKNESS		JOANNA WHITTAKER, JOANNA.WHITTAKER@DALTILE.COM
						3MM WIDE - BASEMENT ALTERNATE #1	
LIENT BASE	-						
	TARKETT	TIGHTLOCK WALL BASE	66	EITHER ORE	4", .25" THICKNESS		AMY EILLIS, AMY.ELLIS@TARKETT.COM
		HOITEOOR WALL DAOL	00		+,.23 IIIIOIII1200		
LER SHADE							
	DRAPER	SHEERWAVE	SW2400	OYSTER/BEIGE			ROSS RHOADES, RRHOADES@DRAPERINC.CO
	DRAPER	SUNBLOC	SB9000	OYSTER			ROSS RHOADES, RRHOADES@DRAPERINC.CO
T VINYL							
	MANNINGTON COMMERCIAL	ASSURANCE III	16343	RIVIERA	6'-6" ROLLS	HEAT WELD SEAMS. WELD ROD TO MATCH SHEET VINYL.	KRISTEN KOMIS, KRISTEM_KOMIS@MANNINGTON.COM
	MANNINGTON COMMERCIAL	SUBER	ETW450	DUN			KRISTEN KOMIS, KRISTEM_KOMIS@MANNINGTON.COM
	MANNINGTON COMMERCIAL	ASSURANCE III	16345	MARL			KRISTEN KOMIS, KRISTEM_KOMIS@MANNINGTON.COM
							-
et vinyl in			40040				
	MANNINGTON COMMERCIAL		16343	RIVIERA			KRISTEN KOMIS, KRISTEM_KOMIS@MANNINGTON.COM
		ASSURANCE III ASSURANCE III	16343 16345	RIVIERA MARL			KRISTEN KOMIS, KRISTEM_KOMIS@MANNINGTON.COM KRISTEN KOMIS, KRISTEM_KOMIS@MANNINGTON.COM
	MANNINGTON COMMERCIAL MANNINGTON COMMERCIAL						-
ET VINYL IN 1 2 D SURFACE	MANNINGTON COMMERCIAL MANNINGTON COMMERCIAL					REFER TO DETAIL 1/IF000	-
ET VINYL IN 1 2 ID SURFACE	MANNINGTON COMMERCIAL MANNINGTON COMMERCIAL	ASSURANCE III	16345	MARL		REFER TO DETAIL 1/IF000	KRISTEN KOMIS, KRISTEM_KOMIS@MANNINGTON.COM
ET VINYL IN 1 2 ID SURFACE K FABRIC	MANNINGTON COMMERCIAL MANNINGTON COMMERCIAL WILSONART	ASSURANCE III	16345 9200CS	MARL		REFER TO DETAIL 1/IF000	KRISTEN KOMIS, KRISTEM_KOMIS@MANNINGTON.COM PATTY EGAN, PEAGAN@WILSONART.COM
ET VINYL IN 1 2 D SURFACE K FABRIC	MANNINGTON COMMERCIAL MANNINGTON COMMERCIAL	ASSURANCE III	16345	MARL		REFER TO DETAIL 1/IF000	KRISTEN KOMIS, KRISTEM_KOMIS@MANNINGTON.COM
ET VINYL IN 1 2 ID SURFACE K FABRIC	MANNINGTON COMMERCIAL MANNINGTON COMMERCIAL WILSONART MAHARAM	ASSURANCE III	16345 9200CS	MARL		REFER TO DETAIL 1/IF000	KRISTEN KOMIS, KRISTEM_KOMIS@MANNINGTON.COM PATTY EGAN, PEAGAN@WILSONART.COM
ET VINYL IN 1 2 D SURFACE ( FABRIC L PROTECT	MANNINGTON COMMERCIAL MANNINGTON COMMERCIAL WILSONART MAHARAM	ASSURANCE III	16345 9200CS	MARL		REFER TO DETAIL 1/IF000	KRISTEN KOMIS, KRISTEM_KOMIS@MANNINGTON.COM PATTY EGAN, PEAGAN@WILSONART.COM
ET VINYL IN 1 2 ID SURFACE K FABRIC L PROTECT	MANNINGTON COMMERCIAL MANNINGTON COMMERCIAL WILSONART MAHARAM	ASSURANCE III MUSE	16345 9200CS	MARL MYSTIQUE MISO		REFER TO DETAIL 1/IF000 INSTALL PANELS VERTICALLY. WHITE BACKED	KRISTEN KOMIS, KRISTEM_KOMIS@MANNINGTON.COM PATTY EGAN, PEAGAN@WILSONART.COM AMBER KRAMER,AKRAMER@MAHARAM.COM
ET VINYL IN 1 2 ID SURFACE K FABRIC L PROTECT	MANNINGTON COMMERCIAL MANNINGTON COMMERCIAL WILSONART MAHARAM ION	ASSURANCE III MUSE DIGITAL FRP PANELS	16345 9200CS	MARL MYSTIQUE MISO GREEN BLUE ART	  THICKNESS: 0.090"; SHEET SIZE: 4' × 8'	REFER TO DETAIL 1/IF000 INSTALL PANELS VERTICALLY. WHITE BACKED	KRISTEN KOMIS, KRISTEM_KOMIS@MANNINGTON.COM PATTY EGAN, PEAGAN@WILSONART.COM AMBER KRAMER,AKRAMER@MAHARAM.COM MELISSIA PUSATERI, MPUSATERI@MDCWALL.COM

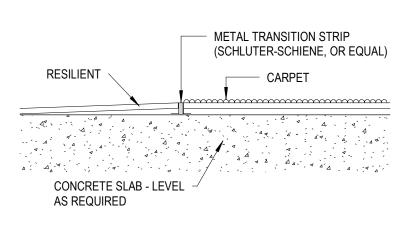


NO TRANSITION STRIP REQUIRED RESILIENT -RESILIENT - CONCRETE SLAB -LEVEL AS REQUIRED PROVIDE TROWELABLE UNDERLAYMENT AS REQUIRED TO ALLOW FOR FLUSH AND LEVEL TRANSITION.

FLOOR TRANSITION - CONCRETE TO

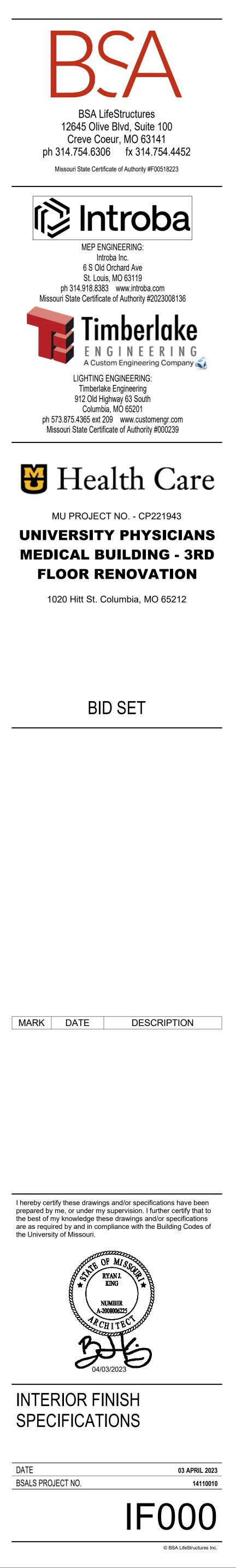
FLOOR TRANSITION - RESILIENT TO 3 RESILIENT 6" = 1'-0"

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. PAINT ALL BULKHEADS, SOFFITS, AND GYPSUM WALLBOARD CEILING SURFACES (P8) 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. REFER TO REFLECTED CEILING PLAN(S) FOR ADDITIONAL CEILING FINISHES. ALL FLOOR MATERIAL TRANSITIONS SHALL BE CENTERED UNDER THE DOOR IN THE CLOSED POSITION. ALL FLOORING SHALL BE INSTALLED PERPENDICULAR TO ROOM WALLS U.N.O. REFER TO PROJECT MANUAL SECTION "CAST-IN-PLACE CONCRETE"
FOR SPECIFICATIONS FOR SEALED CONCRETE (SC). REFER TO SHEET (IF000) FOR FLOOR TRANSITION DETAILS. REFER TO SHEET (IF000) FOR WALL BASE DETAILS.
REFER TO MANUFACTURER'S INSTRUCTIONS FOR CARPET TILE INSTALLATION PATTERNS AS INDICATED.
PROVIDE SEALANT AT ALL DOOR AND WINDOW FRAMES WHERE THEY MEET HARD SURFACE FLOORING.
ALL NEW HOLLOW METAL DOOR AND WINDOW FRAMES SHALL BE PAINTED TO MATCH ADJACENT WALL. REFER TO SPECIFICATIONS FOR PAINT TYPE AND FINISH U.N.O.
ALL EXISTING HOLLOW METAL DOOR AND WINDOW FRAMES SHALL BE PAINTED TO MATCH ADJACENT WALL. REFER TO SPECIFICATIONS FOR PAINT TYPE AND FINISH, ONLY IF ADJACENT WALL IS SCHEDULED TO RECEIVE NEW PAINT / WALL FINISH OR U.N.O.
ALL NEW INTERIOR WOOD DOORS SHALL BE STAINED TO MATCH EXISTING DOORS. DOORS TO BE PREFINISHED. REFER TO PROJECT MANUAL.
ALL NEW INTERIOR HOLLOW METAL DOORS SHALL BE PAINTED TO MATCH ADJACENT WALL. REFER TO SPECIFICATIONS FOR PAINT TYPE AND FINISH.
ALL EXISTING INTERIOR HOLLOW METAL DOORS SHALL BE PAINTED TO MATCH ADJACENT WALL, ONLY IF ADJACENT WALL IS SCHEDULED FOR NEW PAINT / WALL FINISH OR U.N.O. REFER TO SPECIFICATIONS FOR PAINT TYPE AND FINISH
ALL VERTICAL PLASTIC LAMINATE SURFACES SHALL BE (PL1) U.N.O. ALL HORIZONTAL PLASTIC LAMINATE COUNTERTOPS AND BACKSPLASH SHALL BE (PL2) U.N.O.
ALL SOLID SURFACE COUNTERTOPS AND BACKSPLASH SHALL BE (SS1) U.N.O.
ÀLL COUNTERTOPS WITH SINKS SHALL BE SOLID SURFACE (SS1) U.N.O.
ALL FABRIC WRAPPED TACKABLE SURFACES AND TACKBOARDS SHALL BE (TF1) U.N.O.
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. ALL REFERENCES TO EPOXY PAINT (EP1) ON THE DRAWINGS, SHALL MATCH CORRESPONDING PAINT (P1) COLOR. REFER TO PROJECT MANUAL FOR PAINT (P) AND EPOXY PAINT (EP) TYPES AND FINISHES. PAINT ALL WALL MOUNTED GRILLES, VENTS, ELECTRICAL PANELS, ACCESS PANELS, ETC. TO MATCH ADJACENT WALL U.N.O. PAINT STEEL COLUMNS, BEAMS, STRUCTURE, ETC. EXPOSED TO VIEW IN FINISHED AREAS (P8) U.N.O.
FINISH BEHIND FIXED EQUIPMENT SUCH AS CABINETRY, CASEWORK, CHALK AND TACK / MARKERBOARDS, LOCKERS ETC. WALL RATINGS ARE SHOWN FOR REFERENCE ONLY. REFER TO "A"
SERIES DRAWINGS FOR WALL RATINGS LEGEND. BOTTOM OF ALL CORNER GUARDS SHALL BE MOUNTED ABOVE FINISHED WALL BASE, U.N.O.
WINDOW SILLS SHALL BE EXISTING U.N.O. FURNITURE INDICATED BY DASHED LINES SHALL BE OWNER FURNISHED, OWNER INSTALLED.
ALL CUBICLE CURTAINS SHALL BE (CC1) WITH (WHITE) MESH COLOR, U.N.O. PATCH AND MATCH EXISTING FINISHES AS NEEDED FOR NEW
CONSTRUCTION.



PROVIDE TROWELABLE UNDERLAYMENT AS REQUIRED TO ALLOW FOR FLUSH AND LEVEL TRANSITION.

WALL FINISH, REFER TO INTERIOR FINISH PLANS





# 360-//14110010 - UPMB Renovation - 3rd Floor/14110010-AB

BIM 360://14110010 - UPMB Renovation - 3rd F DESIGNED Designer DRAWN Author



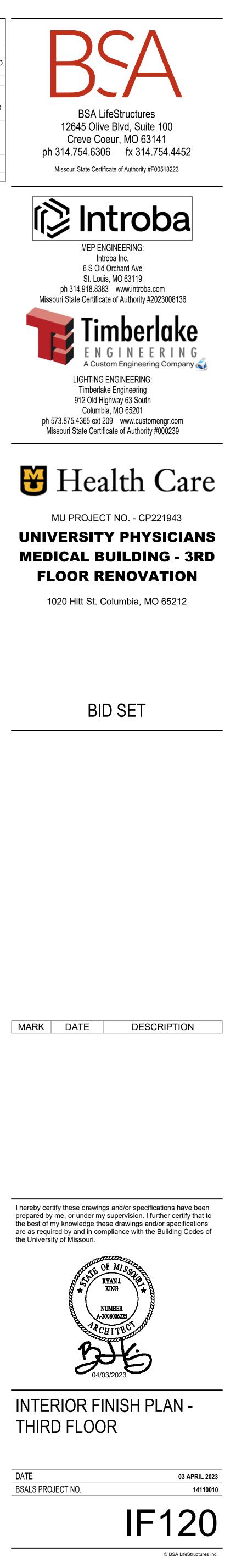
 $1 \frac{3RD FLOOR INTERIOR FINISH PLAN}{1/8" = 1'-0"}$ 

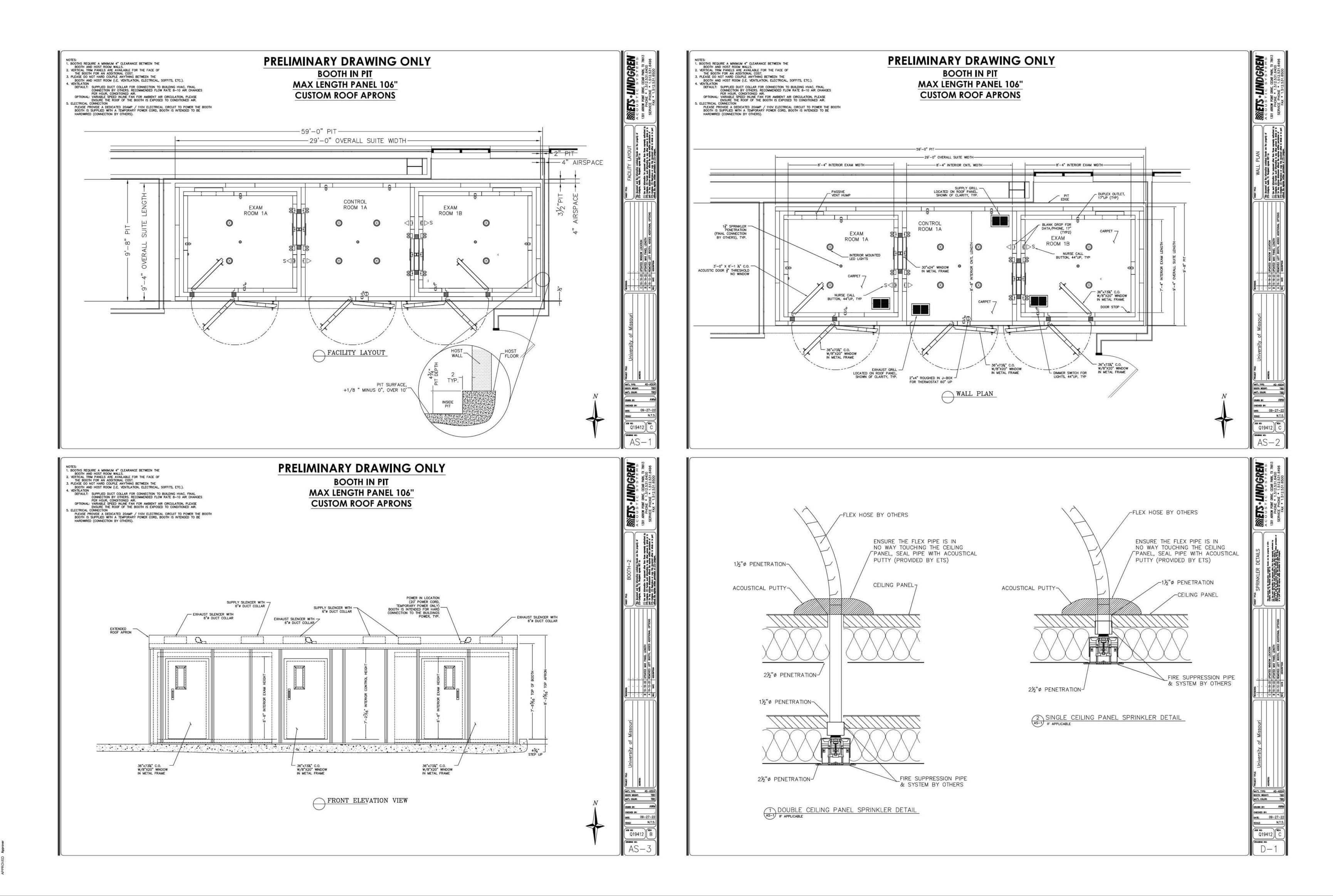
### KEYNOTE LEGEND

	REFER TO A000 FOR GENERAL NOTES
F01	NEW WALL. MATCH EXISTING ADJACENT WALL FINISH. ADD NEW BASE TO MATCH ADJACENT EXISTING BASE.
F02	EXISTING WALLCOVERING TO REMAIN AS INDICATED.
F03	INSTALL NEW CARPET (CPT1), BASE (RB1), AND PAINT (P1) IN SOUND BOOTHS. COORDINATE WITH SOUND BOOTH VENDOR.
F04	NEW WALL. PATCH AND MATCH EXISTING PAINT, WALL PROTECTION AND BASE.
F06	PAINT ALL HOLLOW METAL DOOR FRAMES, NEW AND EXISTING, IN ROOM/AREA INDICATED TO MATCH ADJACENT WALL COLOR. SPLIT FRAME PAINT WHERE OPPOSITE SIDE OF FRAME IS NOT IN SCOPE OF WORK. REFER TO DETAIL 4/IF000.
F07	EXISTING CARPET TO REMAIN. PATCH AREAS OF CONSTRUCTION AS NEEDED
F09	DECORATIVE PANEL, ABOVE HALF-HEIGHT WALL.

P3 WORKROOM 3002A1 ETR c RB1 P1 OFFICE 3002A2 ETR c RB1 P1

#### FINISH REMARKS \* NOT ALL REMARKS MAY BE USED REFER TO INTERIOR FINISH PLAN NOTES FOR ACCENT WALL LOCATIONS. REFER TO INTERIOR FINISH PLANS FOR FLOOR PATTERN. ALTERNATE #1: REMOVE AND REPLACE EXISTING CARPETING WITH I VT1 WALL TO RECEIVE PORCELAIN TILE, PT1 WITH 12" ACCENT TILE PT2. REFER TO ELEVATION. WALL TO RECEIVE PORCELAIN TILE, PT1 WITH 12" ACCENT TILE PT3. REFER TO ELEVATION. WALL TO RECEIVE PORCELAIN TILE, PT4 WITH 12" ACCENT TILE PT3. REFER TO ELEVATION. FINISH ABBREVIATIONS \* NOT ALL FINISHES LISTED ARE USED IN PROJECT ACB ACOUSTICAL CEILING PORCELAIN TILE PORCELAIN TILE BASE BAFFLE ACT ACOUSTICAL CEILING TILE QUARTZ SURFACE QZ AF RESILIENT BASE ACCESS FLOORING AWC ACOUSTICAL WALL CARPET RSF RUBBER SHEET FLOORING BF RUBBER TILE FLOORING BAMBOO FLOORING RTF RUB RAIL BL BLINDS BR BRK CC CF BUMP RAIL RESILIENT STAIR TREAD RST ROLLER SHADE SOUND-ABSORBING PANEL BRICK CUBICLE CURTAIN CORK FLOORING SEALED CONCRETE (SPEC 03300) STATIC DISSIPATIVE TILE CORNER GUARD CG CMUCONCRETE MASONRY UNITSDTCPTCARPETSHCCSCAST STONE OR CULTUREDSSB SHOWER CURTAIN CAST STONE OR CULTURED SSB SOLID SURFACE BASE STONE SPC SPECIALTY COATING SOLID SURFACE CTB CERAMIC TILE BASE CERAMIC TILE SOLID SURFACE SINK СТ SSK CR SOLID SURFACE WALL PANEL CRASH RAIL OR CHAIR RAIL SSP DG DGF DP EP DECORATIVE GLASS STB STAINLESS STEEL BASE DECORATIVE GLASS FILM STN STONE OR STONE VENEER DECORATIVE PANEL STONE SLAB WALL PANEL EPOXY PAINT SHEET VINYL ERB EPOXY RESIN BASE ERF EPOXY RESIN FLOOR ETR EXISTING TO REMAIN FB FABRIC SOLID VINYL TILE SVT SWP SHEET WALL PROTECTION TACKBOARD TB TACKABLE FABRIC FRP FIBER REINFORCED PANEL FWC FABRIC WALLCOVERING TERRAZZO FLOORING TERRAZZO BASE TZB GYP GYPSUM TERRAZZO FLOOR TILE VINYL BASE VISION CONTROL FILM GYP BD GYPSUM BOARD GLT GLASS TILE VCF VINYL COMPOSITION TILE HR HANDRAIL LSF LINOLEUM SHEET FLOO LTF LINOLEUM TILE FLOOR LVT LUXURY VINYL TILE MB MARKER BOARD LINOLEUM SHEET FLOORING VET VINYL ENHANCED TILE LINOLEUM TILE FLOORING LUXURY VINYL TILE MARKER BOARD WD WOOD PANELING MT MOSAIC TILE MWC MARKER WALLCOVERING WOOD FLOORING WDF WALL PROTECTION ASSEMBLY WP Р PAINT WALK-OFF MAT WM PL PLASTIC LAMINATE PME PATCH TO MATCH EXISTING WVW WOOD VENEER WALLCOVERING FLOOR TRANSITION INDICATOR FLOOR FINISH AS INDICATED -FLOOR FINISH IN ROOM FINISH TAG -- X-TRANSITION - DIFFERING FLOOR FINISH CPT2 🗕 ROOM FINISH TAG LEGEND - ROOM NAME ROOM NUMBER FLOOR ------BASE ------- REMARKS COLUMN WALL ------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





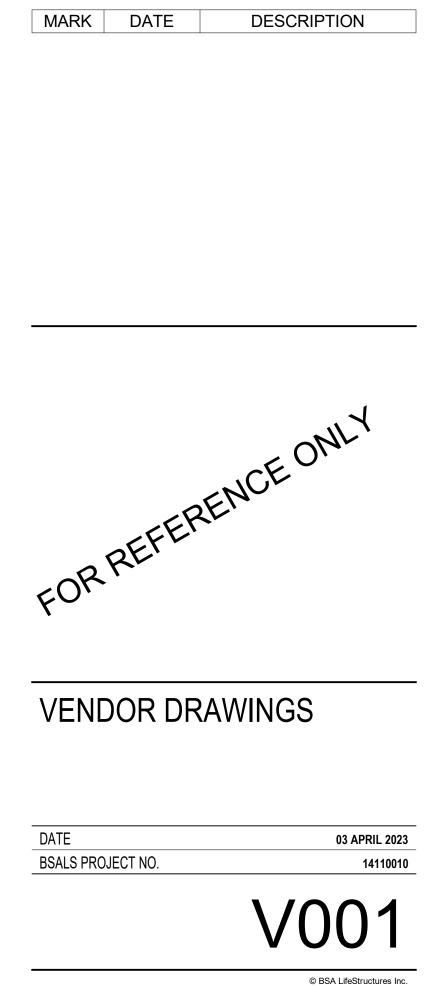
**4110(** Design Author

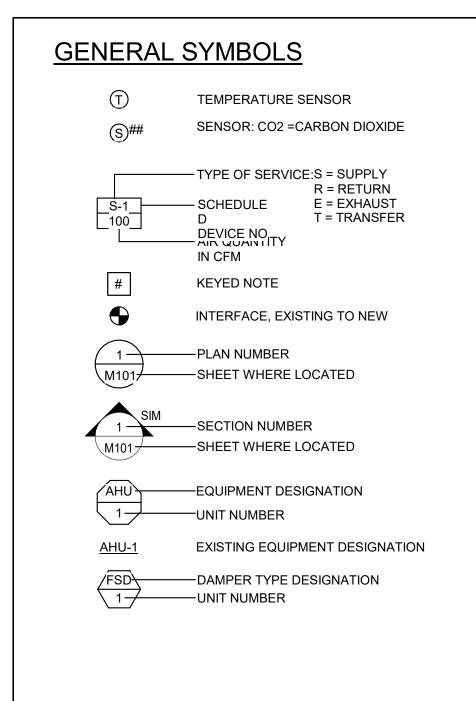


### UNIVERSITY PHYSICIANS MEDICAL **BUILDING - 3RD FLOOR RENOVATION**

CLIENT PROJECT NO. - CP221943

**BID SET** 



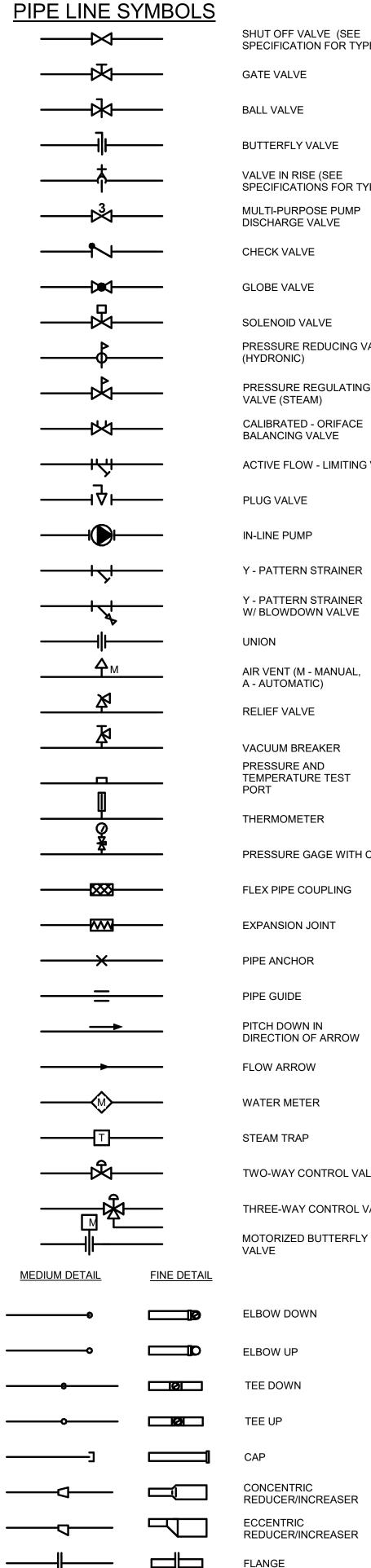


#### DUCT SYSTEM SYMBOLS

	NEW WORK
12x12	EXISTING TO REMAIN
LDUCT SIZE	DUCT SIZE, FIRST FIGURE IS SIDE SHOWN (CLEAR INSIDE, ADJUST FOR LINER)
12ø	ROUND DUCT SIZE, (ACTUAL SIZE INDICATED)
12x10ø	SPIRAL FLAT-OVAL DUCT SIZE, FIRST FIGURE IS SIDE SHOWN (ACTUAL SIZE INDICATED)
	ACCESS PANEL, TOP OR SIDE
	FLEXIBLE DUCT CONNECTION
	CHANGE OF ELEVATION - RISE (R) OR DROP (D)
	TURNING VANES
	DEMO TO BE REMOVED
	MOTORIZED DAMPER
	GRAVITY BACKDRAFT DAMPER
	MANUAL VOLUME DAMPER
	FIRE DAMPER
	SMOKE DAMPER
<b>⋛⋑</b> ⋛	FIRE/SMOKE DAMPER
ALLARA	FLEXIBLE DUCT
$\boxtimes$	SUPPLY AND OUTSIDE AIR SECTION UP
	SUPPLY AND OUTSIDE AIR SECTION DOWN
$\square$	RETURN AIR SECTION UP
	RETURN AIR SECTION DOWN
$\geq$	EXHAUST AIR SECTION UP
	EXHAUST AIR SECTION DOWN
←	FLOW ARROW DOWNSTREAM OF FAN
<b>◄</b> 1—	FLOW ARROW UPSTREAM OF FAN
$- \bowtie$	SUPPLY DIFFUSER AS SCHEDULED. ARROWS INDICATE DIRECTION OF AIR DISCHARGE. IF NO ARROWS ARE SHOWN ON PLAN, DEFAULT IS A 4-WAY THROW.
$\mathbf{\Sigma}$	RETURN GRILLE OR REGISTER AS SCHEDULED
$\square$	EXHAUST GRILLE OR REGISTER AS SCHEDULED
	SLOT DIFFUSER AS SCHEDULED. ARROWS INDICATE DIRECTION OF AIR DISCHARGE. IF NO ARROWS ARE SHOWN ON PLAN, DEFAULT IS 2-WAY THROW.
┨ →	SIDEWALL DIFFUSER AS SCHEDULED

◄ SIDEWALL RETURN OR EXHAUST AS SCHEDULED

-



**GENERAL NOTES:** 

- SOME ALTERATIONS TO THE EXACT LOCATION OF DUCTWORK, PIPING AND EQUIPMENT FROM THE
- 2. ALL ELBOWS, FITTINGS, ETC., IN PIPING AND DUCTWORK REQUIRED TO CLEAR ALL JOB OBSTRUCTIONS
- REQUIRED WHETHER SHOWN OR NOT. BECAUSE OF THE LIMITED SPACE AVAILABLE TO INSTALL ALL OF THE MECHANICAL WORK.
- 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 CONSTITUTED 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. 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
- 8. THE OWNER SHALL MAINTAIN ALL SALVAGE RIGHTS OF EXISTING VAV CONTROLLERS. ALL REMAINING

	SHUT OFF VALVE (SEE SPECIFICATION FOR TYPE)			-	
——————————————————————————————————————	GATE VALVE	BD	BLOW DOWN	AC ACC ACU	AIR CURTAIN AIR COOLED CONDENSER AIR CONDITIONING UNIT
——————————————————————————————————————	BALL VALVE	CA	COMPRESSED AIR CONDENSATE (STEAM) DRAIN	AF AHU	AIR FILTER AIR HANDLING UNIT
ي. بلم		CF	CHEMICAL FEED	AS B	AIR SEPARATOR BOILER
		CHR————————————————————————————————————	CHILLED/HOT WATER RETURN	BCU CAV	BLOWER COIL UNIT CONSTANT AIR VOLUME
Ŷ	VALVE IN RISE (SEE SPECIFICATIONS FOR TYPE)		CHILLED/HOT WATER SUPPLY CONDENSER WATER RETURN	CB CC CFP	CHILLED BEAM COOLING COIL CHEMICAL FEED PUMP
	MULTI-PURPOSE PUMP DISCHARGE VALVE	CS	CONDENSER WATER SUPPLY	CH CP	CHILLER CONDENSER WATER PUMP
•	CHECK VALVE	CW	COLD WATER, DOMESTIC	CRAC	COMPUTER ROOM AIR CONDITIONING UNIT CONDENSATE RETURN PUMP
	GLOBE VALVE	CWR-CWR-CWR		CSG CT	CLEAN STEAM GENERATOR COOLING TOWER
₩	SOLENOID VALVE	CWS	CHILLED WATER SUPPLY	CTF CU	COOLING TOWER FILTER CONDENSING UNIT
<b>k</b>	PRESSURE REDUCING VALVE (HYDRONIC)	E	EQUALIZING LINE	CUH CVR CWP	CABINET UNIT HEATER CONVECTOR CHILLED WATER PUMP
	PRESSURE REGULATING	FOF	FUEL OIL FILL	DFH EAV	DEAERATING FEEDWATER HEATER EXHAUST AIR VALVE
	VALVE (STEAM)	FOR-FOR-FOS-FOS-FOS-FOS-FOS-FOS-FOS-FOS-FOS-FOS		EF EJ	EXHAUST FAN EXPANSION JOINT
	CALIBRATED - ORIFACE BALANCING VALVE	FOS	FUEL OIL SUPPLY FUEL OIL VENT	ERU ET	ENERGY RECOVERY UNIT EXPANSION TANK
	ACTIVE FLOW - LIMITING VALVE	G	NATURAL GAS	EVC F	EVAPORATIVE COOLER FAN
——ı৵ı—	PLUG VALVE	GLR	GLYCOL RETURN	FAV FC FCU	FUME AIR VALVE FLUID COOLER FAN COIL UNIT
	IN-LINE PUMP			FD FSD	FIRE DAMPER COMBINATION FIRE/SMOKE DAMPER
	Y - PATTERN STRAINER		REFRIGERANT HOT GAS HIGH PRESSURE CONDENSATE RETURN (100 PSIG)	FT	FLASH TANK FIN-TUBE RADIATION
· · ·	Y - PATTERN STRAINER	HPS-	HIGH PRESSURE STEAM SUPPLY (100 PSIG)	FTU GP	FAN TERMINAL UNIT GLYCOL PUMP
	W/ BLOWDOWN VALVE	HW	DOMESTIC HOT WATER	GV H	GRAVITY VENTILATOR HUMIDIFIER
	UNION	HWR——HWS——		HC HEV HPU	HEATING COIL HOOD EXHAUST VALVE HEAT PUMP UNIT
	AIR VENT (M - MANUAL, A - AUTOMATIC)	LPG	HEATING WATER SUPPLY	HPU HRU HWP	HEAT POMP UNIT HEAT RECOVERY UNIT HEATING WATER PUMP
X	RELIEF VALVE	LPR	LOW PRESSURE CONDENSATE RETURN (15 PSIG)	HX	HEAT EXCHANGER LOUVER
¥	VACUUM BREAKER	LPS	LOW PRESSURE STEAM SUPPLY (15 PSIG) MEDIUM PRESSURE CONDENSATE	MAU MD	MAKE-UP AIR UNIT MOTORIZED DAMPER
<b>n</b>	PRESSURE AND TEMPERATURE TEST PORT	MPR	RETURN (60 PSIG)	P PAC	PUMP PACKAGED AIR CONDITIONING UNIT
Ο	THERMOMETER	MU	MEDIUM PRESSURE STEAM SUPPLY (60PSIG) MAKE-UP WATER (NON-POTABLE)	PCWP PG	PRIMARY CHILLED WATER PUMP PIPE GUIDE
Ø 妾		PC	PUMPED CONDENSATE	PHWP PHX PRV	PRIMARY HEATING WATER PUMP PLATE HEAT EXCHANGER PRESSURE REGULATING VALVE
<b>T</b>	PRESSURE GAGE WITH COCK	PD	PUMP DISCHARGE	RF RHC	RETURN FAN TERMINAL REHEAT COIL
	FLEX PIPE COUPLING	PCWR——PCWS——	PRIMARY CHILLED WATER RETURN PRIMARY CHILLED WATER SUPPLY	RP	RADIANT PANEL ROOFTOP UNIT
	EXPANSION JOINT		PRIMARY CHILLED WATER SUPPLY PRIMARY HEATING WATER RETURN	SAV SCWP	SUPPLY AIR VALVE SECONDARY CHILLED WATER PUMP
——————————————————————————————————————	PIPE ANCHOR	PHWS	PRIMARY HEATING WATER SUPPLY	SD SF	SMOKE DAMPER SUPPLY FAN
<u>=</u>	PIPE GUIDE		REFRIGERANT LIQUID	SHWP ST T	SECONDARY HEATING WATER PUMP STEAM TRAP
<b>&gt;</b>	PITCH DOWN IN			UH VAV	TANK UNIT HEATER VARIABLE AIR VOLUME BOX
_			REFRIGERANT VENT SECONDARY CHILLED WATER RETURN	WCC	WATER COOLED CONDENSER
	FLOW ARROW	scws	SECONDARY CHILLED WATER SUPPLY		
	WATER METER	SHWR	SECONDARY HEATING WATER RETURN		
Ţ	STEAM TRAP	SHWS———————————————————————————————————	SECONDARY HEATING WATER SUPPLY STEAM RELIEF VENT		
\$	TWO-WAY CONTROL VALVE	V	VENT		
	THREE-WAY CONTROL VALVE				
	MOTORIZED BUTTERFLY VALVE				
• <u>MEDIUM DETAIL</u> <u>FINE DETAIL</u>					
@	ELBOW DOWN				
	ELBOW UP				
	TEE DOWN				
	TEE UP				
	CAP				
	CONCENTRIC REDUCER/INCREASER				
	ECCENTRIC REDUCER/INCREASER				
	FLANGE				
<u> </u>	C DEMO TO BE REMOVED				
GENERAL NOTES					

**PIPE SYSTEM ABBREVIATIONS** 

1. THESE PLANS ARE DIAGRAMMATIC IN NATURE. THE CONTRACTOR SHALL BE PREPARED TO MAKE LOCATION INDICATED ON THESE DRAWINGS TO FIT ACTUAL JOB CONDITIONS. ARE NOT NECESSARILY INDICATED. ALL NECESSARY TRANSITIONS, FITTINGS AND OFFSETS ARE COORDINATION BETWEEN THE VARIOUS TRADES IS OF THE UTMOST IMPORTANCE. SEE

EXISTING CEILINGS AND WALLS REQUIRED FOR INSTALLATION OF MECHANICAL SYSTEMS.

EQUIPMENT AND MATERIALS 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 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 2005, 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.

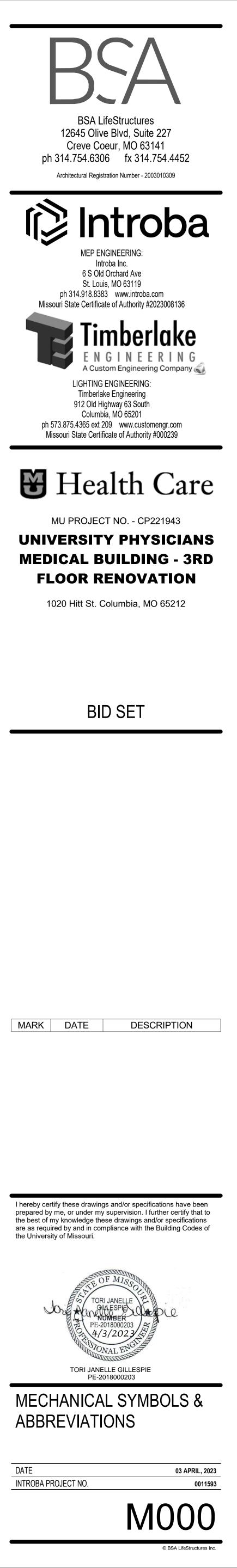
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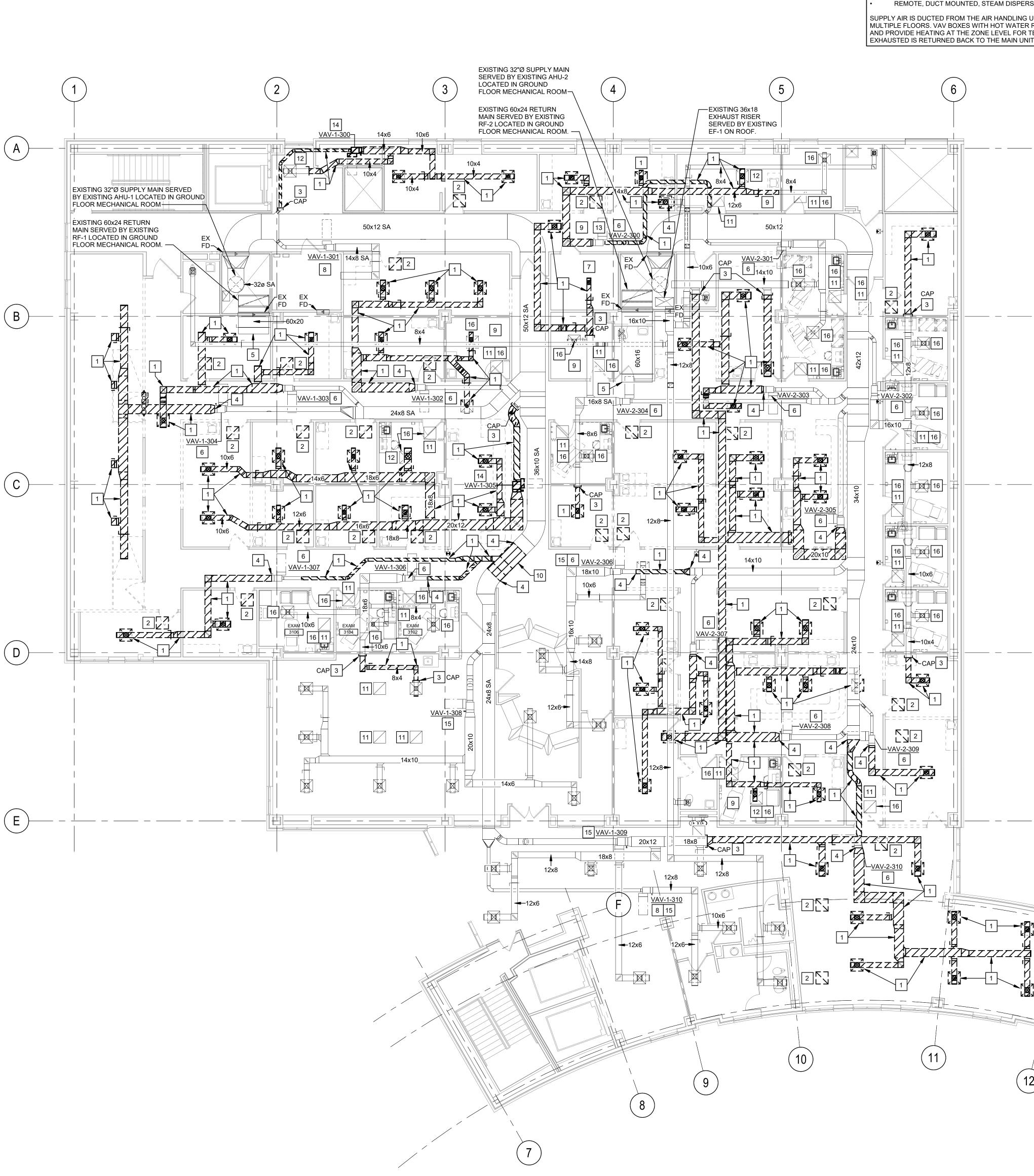
**EQUIPMENT DESIGNATION** 

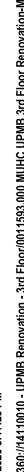
		<b>GENERAL ABBREVIATIONS</b>
	A ACC	AIR OR AMP (PER CONTEXT) ACCESSORIES
	ACC	ACCESS DOOR
	AFF	ABOVE FINISHED FLOOR
	AFS AHRI	AIR FLOW SWITCH
		AIR CONDITIONING, HEATING, AND REFRIGERATION INSTITUTE ANALOG SIGNAL INPUT
		AMBIENT
		ANALOG SIGNAL OUTPUT ACCESS PANEL
		AIR PRESSURE DROP
		APPLICATION PART LOAD VALUE
		APPROXIMATE ARCHITECTURE/ARCHITECT
		AUXILIARY
	AV AVG	AUTOMATIC VENT AVERAGE
	BDD	BACK DRAFT DAMPER
	BFC	BELOW FINISHED CEILING
	BFP BHP	BACKFLOW PREVENTER BRAKE HORSEPOWER
	BI	BINARY SIGNAL INPUT
	BMS	BUILDING MANAGEMENT SYSTEM BINARY SIGNAL OUTPUT
	BO BOB	BOTTOM OF BEAM
	BOD	BOTTOM OF DUCT
	BOP BS	BOTTOM OF PIPE BEAM SPACE
	BTU	BRITISH THERMAL UNIT
		BRITISH THERMAL UNITS PER HOUR
	BWE CAP	BAKED WHITE ENAMEL CAPACITY
	CAV	CONSTANT AIR VOLUME
	CFH CFM	CUBIC FEET PER HOUR CUBIC FEET PER MINUTE
	CI	CAST IRON
	CLG	COOLING DUCT (COLD DUCT)
	CO COMP	CLEAN OUT COMPRESSOR
	CONC	CONCRETE
		CONDENSATE CONNECTION
		CORRIDOR
		CONTROL VALVE
	D DB	DRY BULB
		A-WEIGHTED DECIBELS
		DEFLECTION DEGREES
		DEGREES FAHRENHEIT
		DESIGN DIAMETER
		DIMENSION
		DISCHARGE
	DIV DN	DIVISION DOWN
	DP	DIFFERENTIAL PRESSURE SENSOR
	DPS DPT	DIFFERENTIAL PRESSURE SWITCH DIFFERENTIAL PRESSURE TRANSMITTER
	DFT	DETAIL
	DWG(S)	DRAWING(S)
	EA EAT	EXHAUST AIR OR EACH (PER CONTEXT) ENTERING AIR TEMPERATURE
	EER	ENERGY EFFICIENT RATIO
		EFFICIENCY ELECTRIC
	ELEC	ELEVATION
	EQ	
		EXTERNAL STATIC PRESSURE ENTERING AIR WET BULB TEMPERATURE
	EWT	ENTERING WATER TEMPERATURE
	EXH EXIST, EX	EXHAUST
		EXTERNAL
		FAHRENHEIT FLOAT AND THERMOSTATIC
		FLEXIBLE CONNECTION
		FIRE DEPARTMENT CONNECTION FINISHED
		FLOOR
		FINS PER FOOT FEET PER MINUTE
		FLOW SWITCH
		FEET HEAD IN FEET
		GAUGE
		GALLONS
		GALVANIZED GENERAL CONTRACTOR
		GALLONS PER HOUR
ļ	GPM H	GALLONS PER MINUTE HEIGHT
ļ	HD	HEAD
ļ		HOSE END VALVE
ļ	HORIZ	HORIZONTAL HORSEPOWER
ļ	HR	
ļ	HTG HVAC	HEATING DUCT (HOT DECK) HEATING, VENTILATING & AIR CONDITIONING
ļ	HW	HOT WATER
ļ	HZ IB	HERTZ INVERTED BUCKET
	IE	INVERT ELEVATION
ļ	IN INDIC	INCH/INCHES INDICATOR
ļ		

#### GENERAL ABBREVIATIONS, CONTINUED

PLV SP	INTEGRATED PART-LOAD VALUE INTERNAL STATIC PRESSURE
S	JOIST SPACE
	KILOWATTS LENGTH
	LEAVING AIR TEMPERATURE POUNDS
.F	LINEAR FEET
	LOCKED ROTOR AMPS LIGHT SPACE
.VL	
	LEAVING WATER TEMPERATURE MANUAL
/IANU /IAX	MANUFACTURER MAXIMUM
ЛВН	THOUSAND BRITISH THERMAL UNITS PER HOUR
	MINIMUM CIRCUIT AMPS MOTOR CONTROL CENTER
/IECH /IERV	MECHANICAL MINIMUM EFFICIENCY REPORTING VALUE (ASHRAE 52.2)
/IFR	MANUFACTURER
	MINIMUM OR MINUTE (PER CONTEXT) MOUNTED
/ITL /IV	METAL MANUAL VENT
IC	NORMALLY CLOSED OR NOISE CRITERIA (PER CONTEXT)
10 11C	NOT IN CONTRACT NORMALLY OPEN OR NUMBER (PER CONTEXT)
IOM IPLV	NOMINAL NON-STANDARD PART LOAD VALUE
IPSH	NET POSITIVE SUCTION HEAD
NTS DA	NOT TO SCALE OUTSIDE AIR
)BD )C	OPPOSED BLADE DAMPER ON CENTER
D	OUTSIDE DIAMETER
DT PA	OIL TRAP PIPE ANCHOR
BD	PARALLEL BLADE DAMPER
PD PENT	PRESSURE DROP PENTHOUSE
РН РНС	PHASE PREHEAT COIL
	PLUMBING
PNEU PPH	PNEUMATIC POUNDS PER HOUR
PRESS PRV	PRESSURE PRESSURE REGULATING VALVE
PSI	POUNDS PER SQUARE INCH
PSIA PSIG	POUNDS PER SQUARE INCH ABSOLUTE POUNDS PER SQUARE INCH GAUGE
QTY RA	QUANTITY RETURN AIR
RAD	RADIATED
RD REFR	ROOF DRAIN REFRIGERANT
REQ RH	REQUIRED RELATIVE HUMIDITY
RLA	RUNNING LOAD AMPS
rm RND	ROOM ROUND
RPM SA	REVOLUTIONS PER MINUTE SUPPLY AIR
SAN	SANITARY
SEC'N SEER	SECTION SEASONAL ENERGY EFFICIENCY RATIO
SENS SF	SENSIBLE SQUARE FOOT
ЯН	SENSIBLE HEAT
SHT SND	SHEET SOUND
SOL SP	SOLENOID STATIC PRESSURE
SPD	STATIC PRESSURE DIFFERENTIAL
SPT SQ	STATIC PRESSURE TRANSMITTER SQUARE
ST STL	STAINLESS STEEL STEEL
ЯΤΜ	STEAM
	TEMPERATURE AND PRESSURE TEMPERATURE CONTROL
	THERMODYNAMIC OR TEMPERATURE DIFFERENTIAL (PER CONTEXT TOTAL DYNAMIC HEAD
EMP	TEMPERATURE
-	TOTAL TOTAL PRESSURE DROP
	TOTAL STATIC PRESSURE TYPICAL
JC	UNDERCUT DOOR
JG JNO	UNDERGROUND UNLESS NOTED OTHERWISE
	VOLTS VACUUM
/D	VOLUME DAMPER (MANUAL)
	VELOCITY VERTICAL
	VARIABLE FREQUENCY DRIVE VOLUME
/TR	VENT THRU ROOF
V V/	WATT OR WIDTH (PER CONTEXT) WITH
V/O	WITHOUT WET BULB
VC	WATER COLUMN
VG VPD	WATER GAUGE WATER PRESSURE DIFFERENTIAL
VT	WEIGHT







480V/3PH) MIXING SÉCTION

## **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. WE WILL FOCUS ON AHU-1 SINCE IT SERVES THE RENOVATION AREA, BUT 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,

#### AIR BLENDER PRE-FILTER (MERV 8)

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11 | 16 |

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

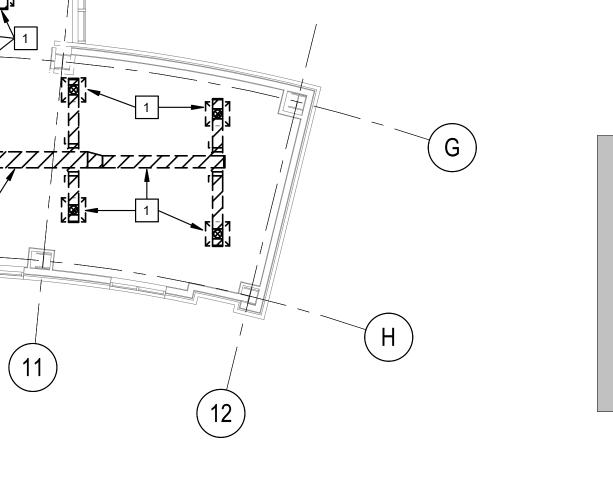
SUPPLY AIR IS DUCTED FROM THE AIR HANDLING UNIT AND IS DISTRIBUTED TO MULTIPLE SPACES ON MULTIPLE FLOORS. VAV BOXES WITH HOT WATER REHEAT COILS MODULATE AIRFLOW TO EACH ZONE AND PROVIDE HEATING AT THE ZONE LEVEL FOR TEMPERATURE CONTROL. ALL AIR THAT IS NOT EXHAUSTED IS RETURNED BACK TO THE MAIN UNIT THROUGH THE CEILING RETURN AIR PLENUM.

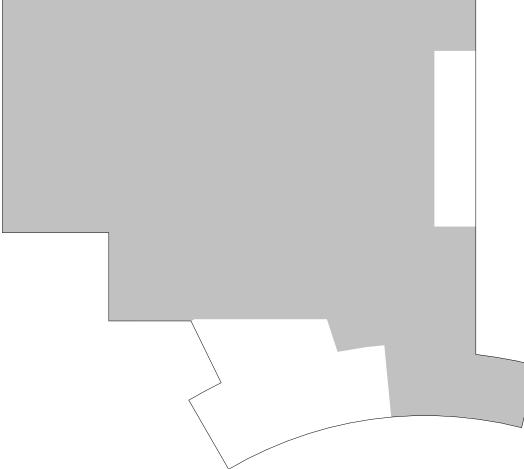


- A. REFER TO SHEET M000 FOR GENERAL NOTES.
- B. ALL DUCTWORK WITH OPEN ENDS SHALL BE COVERED FOR PROTECTION DURING CONSTRUCTION PER SPEC SECTION 233113, 3.3 (P).

#### **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 MUST REMAIN OPERATIONAL AT ALL TIMES. 5. EXISTING OPEN-ENDED RETURN AIR DUCT ABOVE CEILING. INSTALL MERV 11 FILTER MATERIAL OVER DUCT OPENING DURING CONSTRUCTION. VISUALLY MONITOR FOR CLEANLINESS AND REPLACE AS REQUIRED. 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 MUST REMAIN OPERATIONAL AT ALL TIMES. 7. CONTRACTOR TO PROVIDE TEMPORARY COOLING FOR ROOM DURING CONSTRUCTION. 8. NO WORK REQUIRED FOR EXISTING AIR TERMINAL UNIT 9. 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 CEILINGS THAT ARE TO REMAIN. COORDINATE SCHEDULING OF WORK WITH OWNER'S REPRESENTATIVE. 10. REMOVE PORTION OF EXISTING AHU-1 SUPPLY MAIN AS SHOWN FOR INSTALLATION OF NEW FITTING. REFER TO SHEET M101 FOR NEW WORK. 11. EXISTING NON-DUCTED RETURN AIR DEVICE TO REMAIN. 12. 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

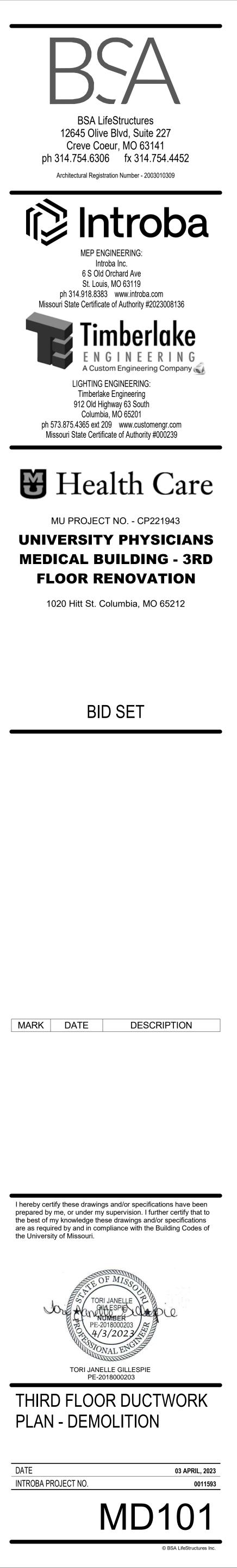
- SHOWN TO BE REMOVED. 13. EXISTING AIR TERMINAL UNIT VAV 2-300 WITH HOT WATER REHEAT COIL TO BE RELOCATED AND RE-USED. REFER TO SHEET M101 FOR NEW WORK. EXISTING CONTROL WIRES SHALL BE RE-PULLED NOT SPLICED. REFER TO SHEET MD201 FOR PIPING DEMOLITION RELATED TO AIR TERMINAL UNIT.
- 14. REMOVE EXISTING AIR TERMINAL UNIT WITH HOT WATER REHEAT COIL. EXISTING VAV CONTROLLER TO BE REMOVED BY OWNER. REFER TO SHEET MD201 FOR PIPING DEMOLITION RELATED TO AIR TERMINAL UNIT.
- 15. EXISTING AIR TERMINAL UNIT TO BE UTILIZED FOR CONDITIONING OF FLOOR DURING CONSTRUCTION. COORDINATE WITH OWNER'S REPRESENTATIVE.
- 16. INSTALL PROTECTIVE COVERING OVER AIR DEVICE DURING CONSTRUCTION TO AVOID CONTAMINATION DURING CONSTRUCTION. COORDINATE WITH OWNER'S INFECTION CONTROL REPRESENTATIVE. REMOVE COVERING AT COMPLETION OF REMODEL PROJECT.

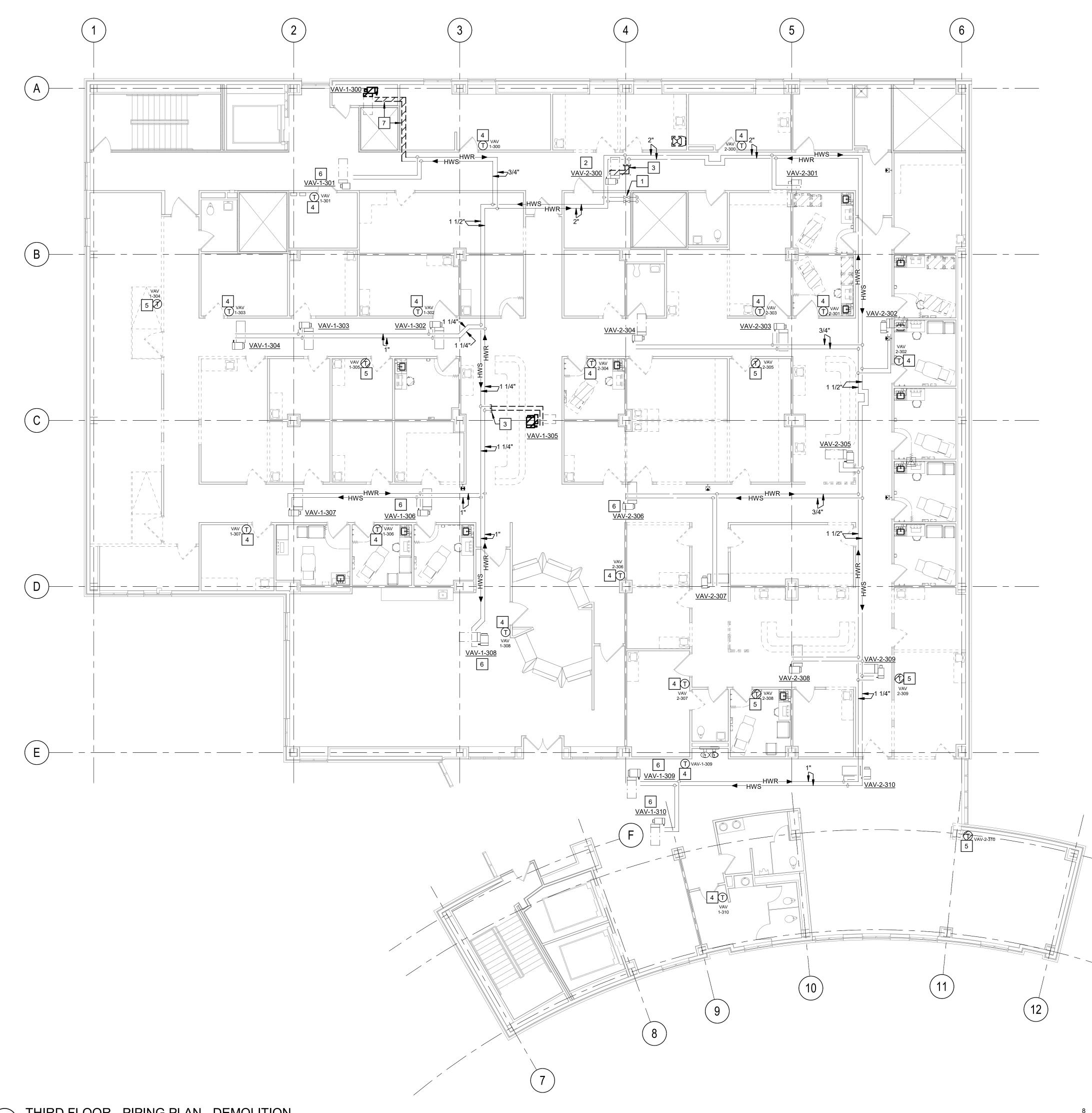




SCALE: 1/8"=1'-0

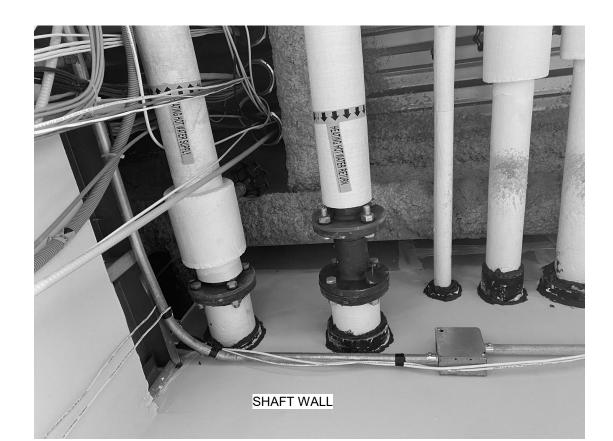
THIRD FLOOR KEY PLAN





1 THIRD FLOOR - PIPING PLAN - DEMOLITION 1/8" = 1'-0"

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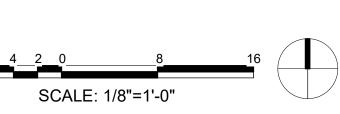
# IMAGE 1

# GENERAL NOTES

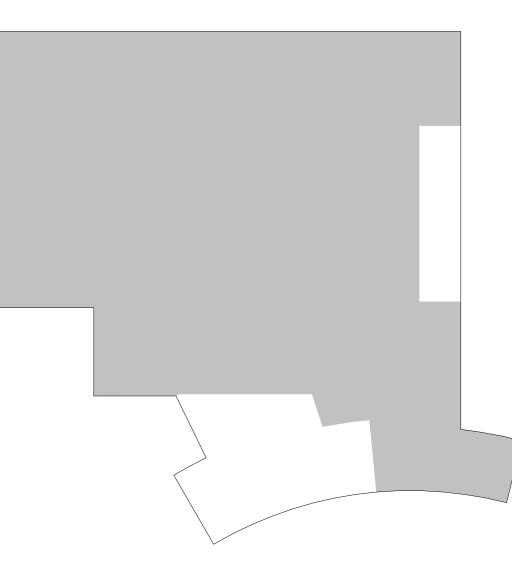
A. REFER TO SHEET M000 FOR GENERAL NOTES.

# **KEYED NOTES**

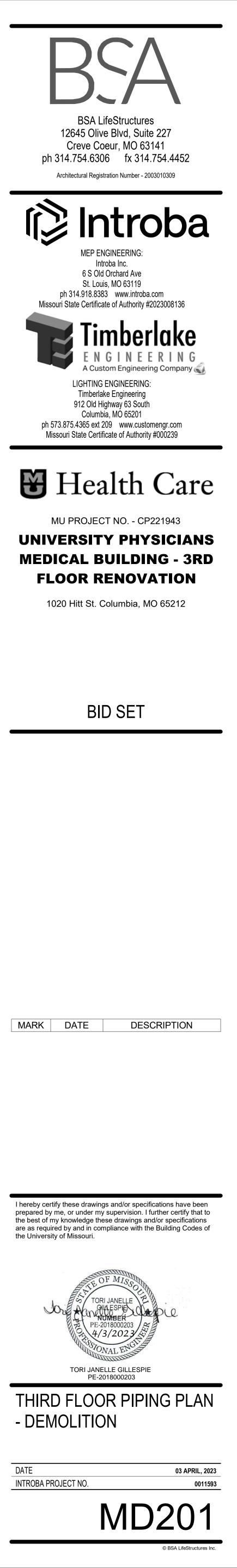
- CLOSE EXISTING SHUT-OFF VALVES PRIOR TO STARTING ANY DEMOLITION. EXISTING VALVES SERVE ALL AIR TERMINAL UNITS ON THIRD FLOOR.
   COORDINATE REQUIRED SHUT-DOWN WITH OWNER'S REPRESENTATIVE. SEVERAL SHUTDOWNS MAY BE REQUIRED. REFER TO IMAGE 1 ON THIS SHEET.
- 2. EXISTING AIR TERMINAL UNIT VAV 2-300 TO BE RELOCATED AND RE-USED. EXISTING VAV DDC CONTROLLER TO BE SALVAGED AND 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.
- 3. REMOVE EXISTING HEATING HOT WATER SUPPLY AND RETURN BRANCH PIPING, 2-WAY CONTROL VALVE, PIPING ACCESSORIES AND SHUT-OFF VALVES BACK TO MAIN AND CAP. EXISTING 2-WAY CONTROL VALVE TO BE RE-USED. REFER TO SHEET M201 FOR NEW WORK.
- 4. EXISTING WALL MOUNTED DDC THERMOSTAT TO REMAIN.
- 5. 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.
- 6. NO WORK REQUIRED FOR EXISTING AIR TERMINAL UNIT.
- 7. REMOVE EXISTING HEATING HOT WATER SUPPLY AND RETURN BRANCH PIPING, 2-WAY CONTROL VALVE, PIPING ACCESSORIES AND SHUT-OFF VALVES TO POINT SHOWN. EXISTING 2-WAY CONTROL VALVE TO BE RE-USED. REFER TO SHEET M201 FOR NEW WORK.



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THIRD FLOOR KEY PLAN

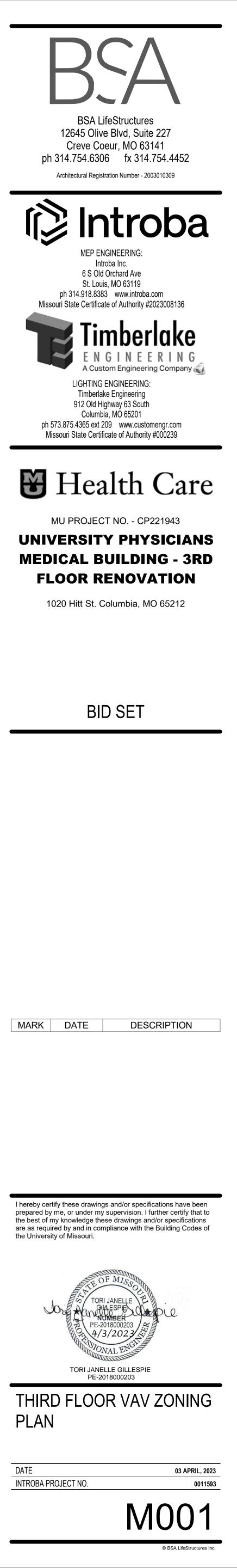


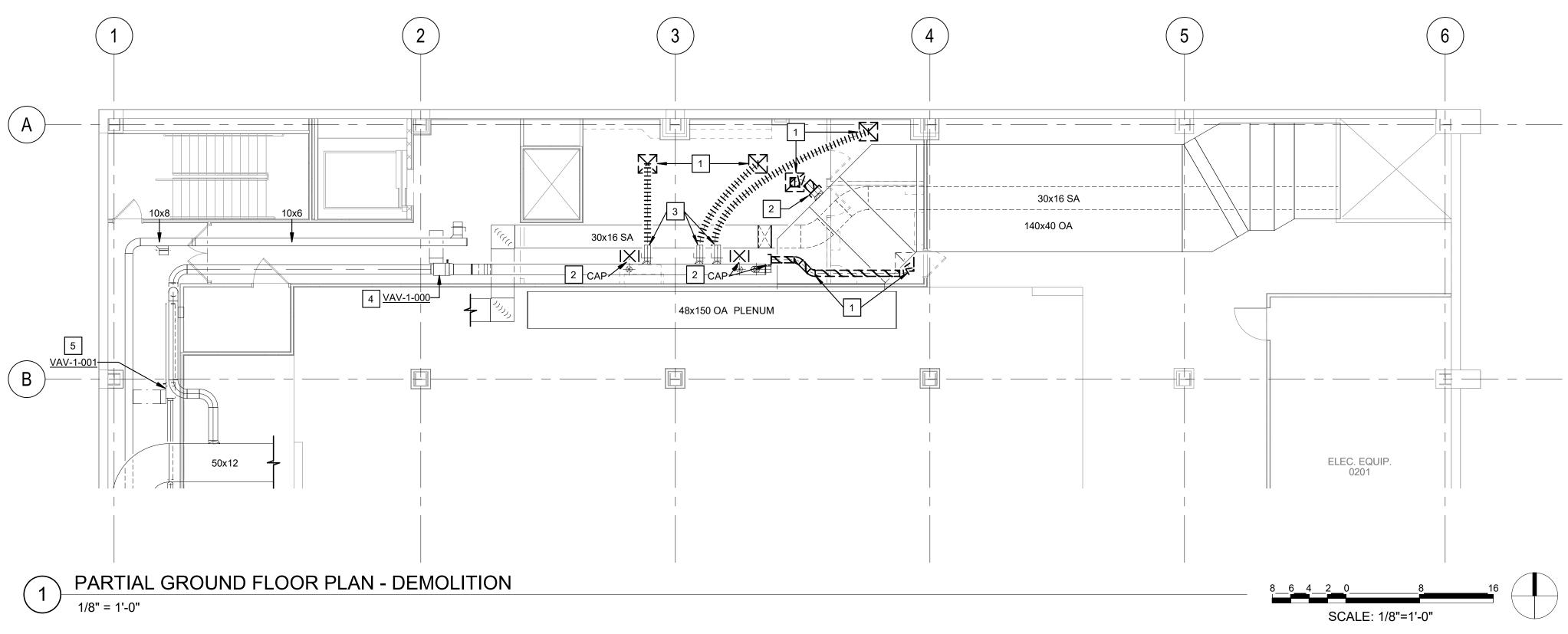
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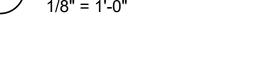
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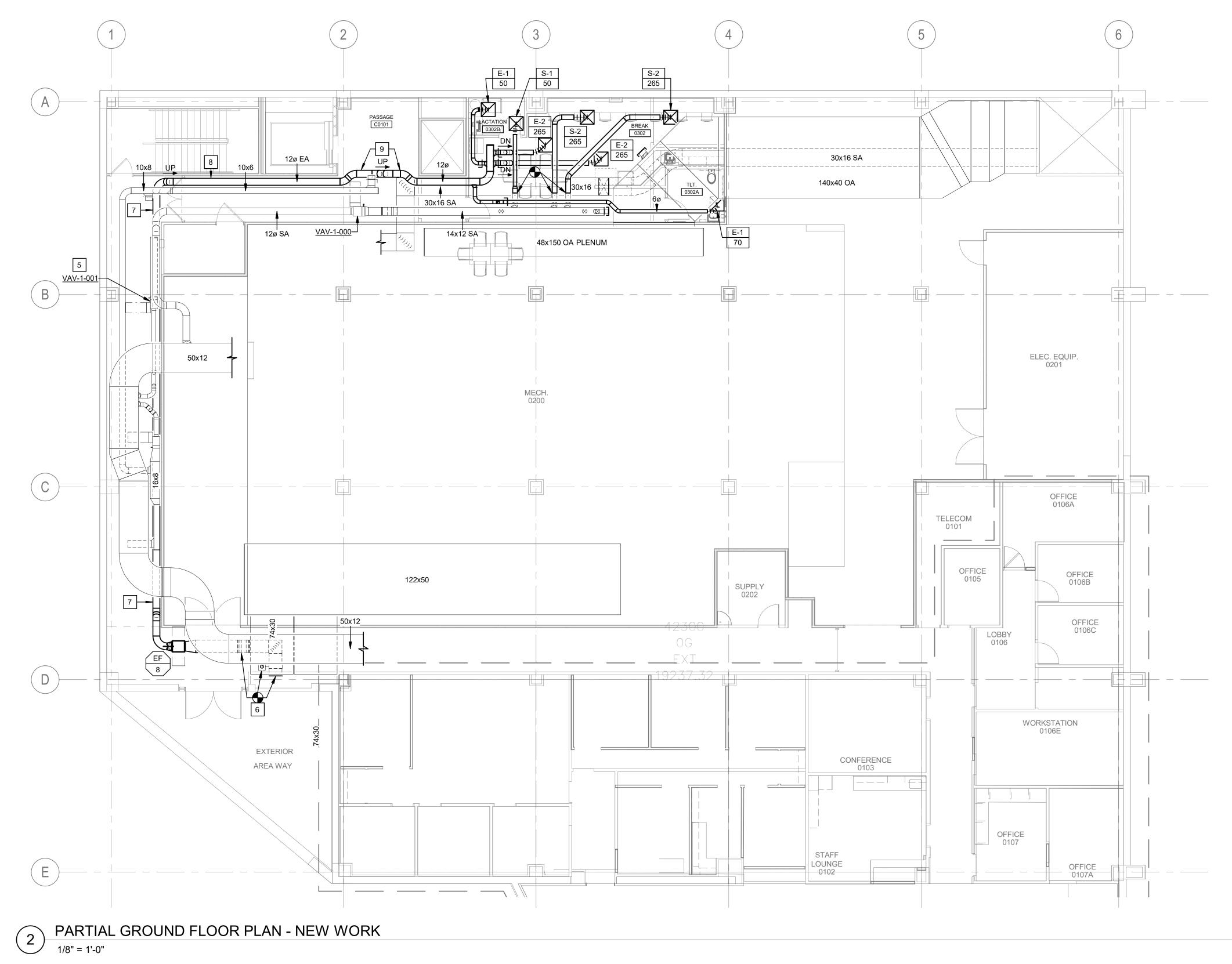
THIRD FLOOR - VAV ZONING PLAN 1/8" = 1'-0"











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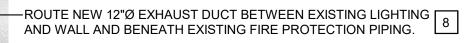
# **GENERAL NOTES**

- A. REFER TO SHEET M000 FOR GENERAL NOTES.
- B. ALL DUCTWORK WITH OPEN ENDS SHALL BE COVERED FOR PROTECTION DURING CONSTRUCTION PER SPEC SECTION 233113, 3.3 (P).

#	KEYED NOTES
1.	REMOVE EXISTING AIR DEVICES AND DUCTWORK TO POINT SHOWN.
2.	CAP EXISTING DUCTWORK AIRTIGHT WITH SHEETMETAL. INSULATE CAP WITH 1-1/2" THICK FOIL FACED DUCT WRAP INSULATION IF DUCT IS SUPPLY DUCT.
3.	PROVIDE TEMPORARY CAP IN EXISTING DUCTWORK UNTIL NEW DUCTWORK IS INSTALLED. EXISTING SYSTEM MUST REMAIN OPERATIONAL AT ALL TIMES.
4.	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 MUST REMAIN OPERATIONAL AT ALL TIMES.
5.	NO WORK REQUIRED FOR EXISTING AIR TERMINAL UNIT.
6.	CONNECT NEW 22"x6" EXHAUST TAP TO EXISTING LOUVER SHOWN IN IMAGE 1 ON THIS SHEET. ROUTE AS TIGHT AS POSSIBLE BENEATH EXISTING 74"x30" RELIEF DUCT SHOWN IN IMAGE 4 ON THIS SHEET. PROVIDE 22"x6" BACKDRAFT DAMPER BEFORE WALL PENETRATION TO EXISTING LOUVER. COORDINATE EXHAUST DUCT LOCATION WITH EXISTING 74"x30" RELIEF DUCT ACCESS DOORS.
7.	ROUTE NEW 12"Ø EXHAUST AT APPROXIMATELY 7'-5" A.F.F. DOWN LENGTH OF CORRIDOR.
8.	ROUTE NEW 12"Ø EXHAUST AT APPROXIMATELY 9'-2" A.F.F. BELOW EXISTING FIRE PROTECTION SYSTEM IN THIS AREA. COORDINATE WITH ROUTE WITH EXISTING LIGHTING FIXUTURES. REFER TO IMAGE 2 ON THIS SHEET.
9.	ROUTE NEW 12"Ø EXHAUST BENEATH EXISTING CHILLED WATER SUPPLY AND RETURN THEN RISE TO ROUTE ABOVE EXISTING 30"x16" SUPPLY DUCT TO ENTER PASSAGE C0101. REFER TO IMAGE 3 ON THIS



IMAGE 1



SHEET.







>EXISTING BUILDING CHILLED WATER SUPPLY AND RETURN PIPING 9



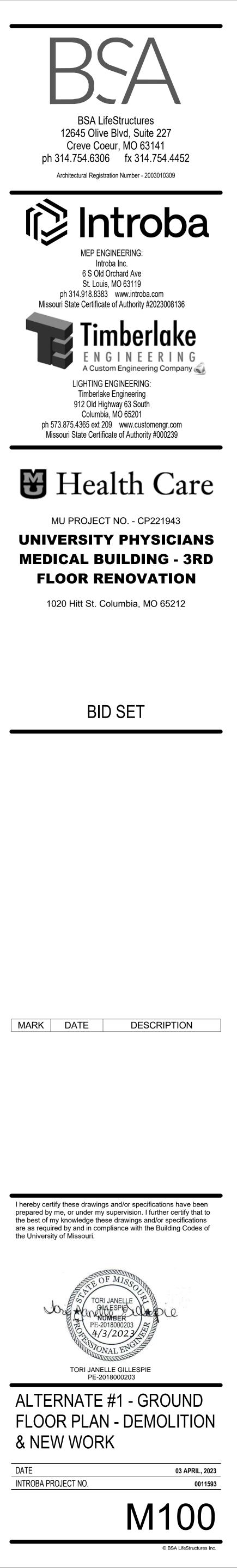


IMAGE 3

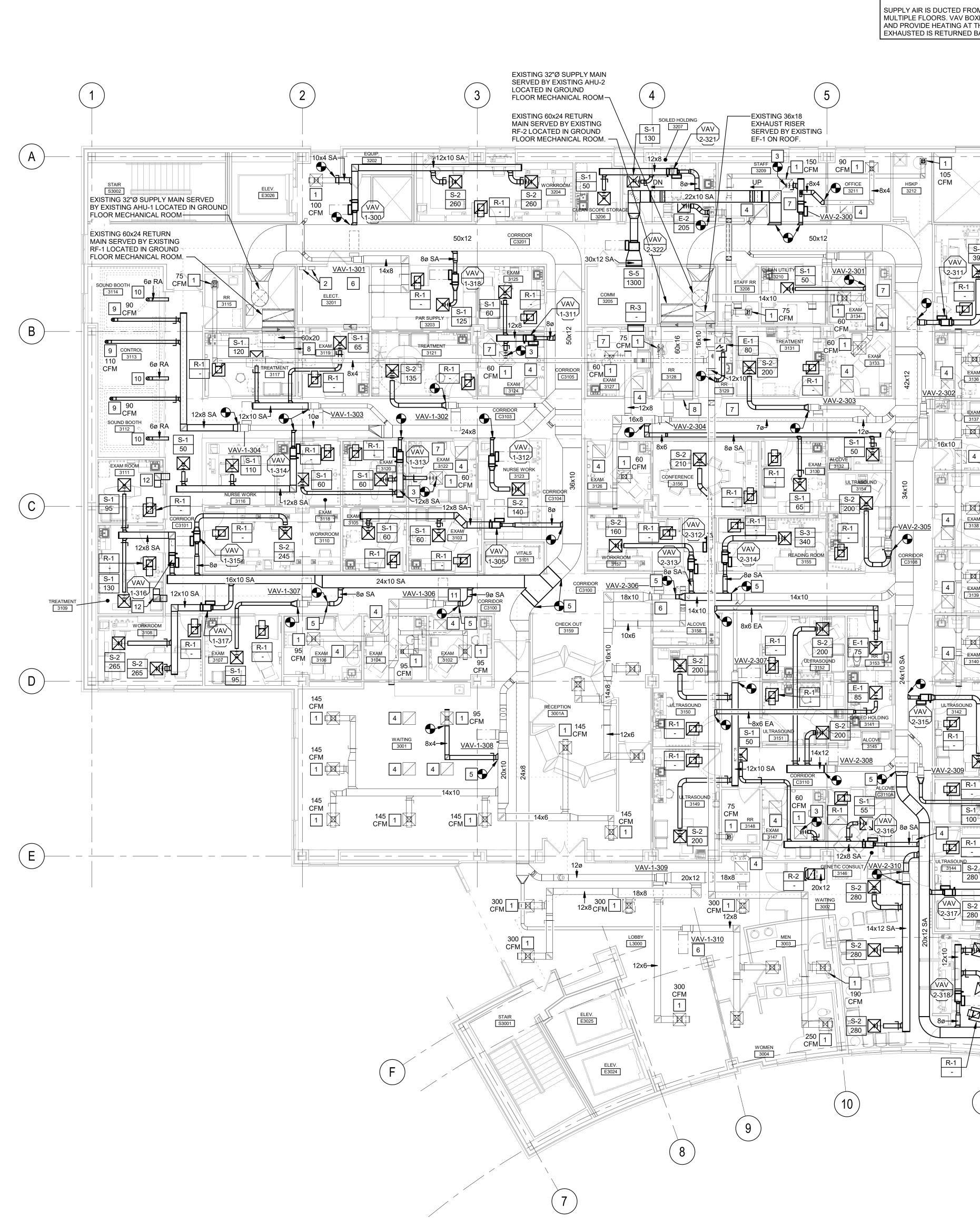
8\_\_6\_\_4\_\_ SCALE: 1/8"=1'-0



<u>GROUND FLOOR KEY PLAN</u>



411 JPS JPS RAC



#### **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. WE WILL FOCUS ON AHU-1 SINCE IT SERVES THE RENOVATION AREA, BUT 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 SÉCTION 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

6

S-3

VAV

2-311/

R\_1

Ø

100

<sup>3137</sup>CFM

EXAM

20x12

(11)

R-1

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.

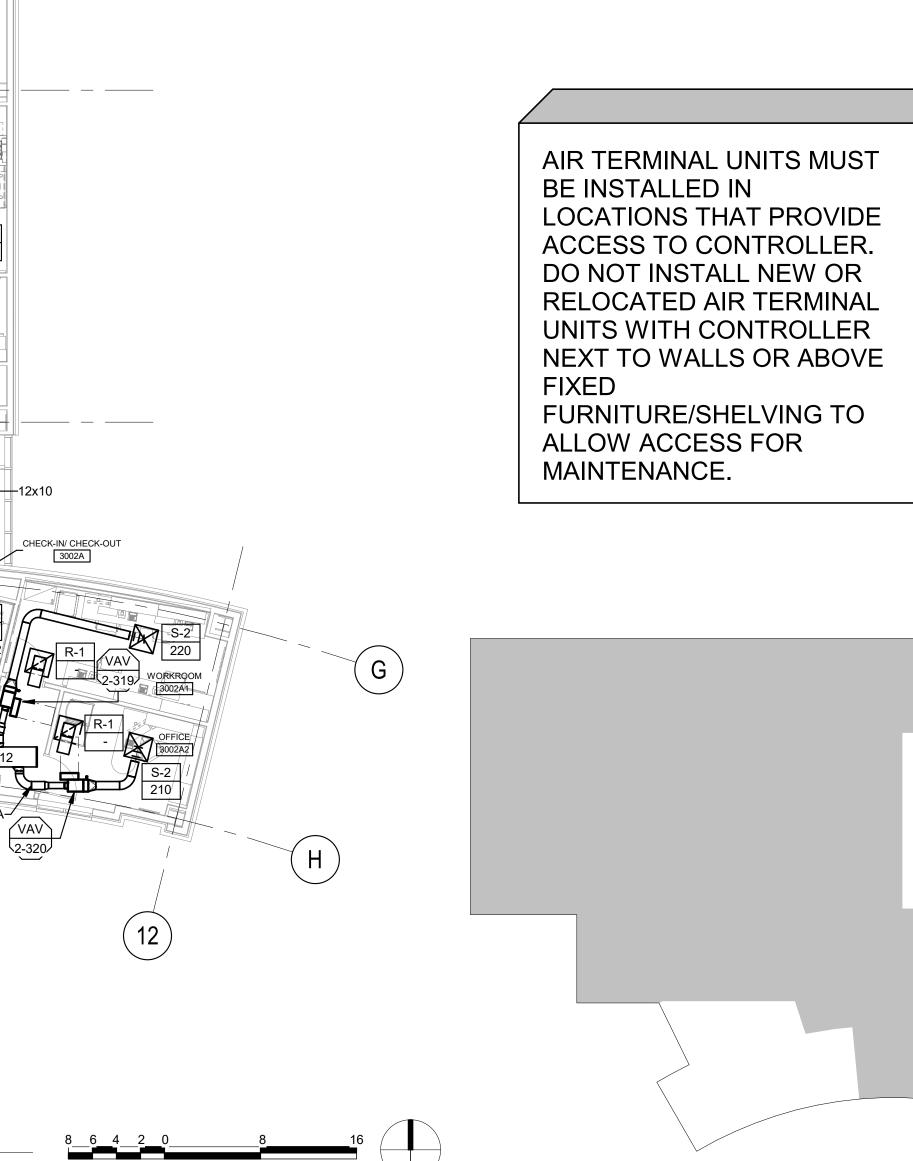


- A. REFER TO SHEET M000 FOR GENERAL NOTES.
- B. REFER TO AIR TERMINAL UNIT SCHEDULE ON SHEET M600 FOR INLET SIZE OF AIR TERMINAL UNITS.
- ALL NON-DUCTED RETURN AIR DEVICES SHALL HAVE A LINED SOUND BOOT PER DETAIL 4 ON SHEET M-500.
- D. ALL DUCTWORK WITH OPEN ENDS SHALL BE COVERED FOR PROTECTION DURING CONSTRUCTION PER SPEC SECTION 233113, 3.3 (P).

## **KEYED NOTES**

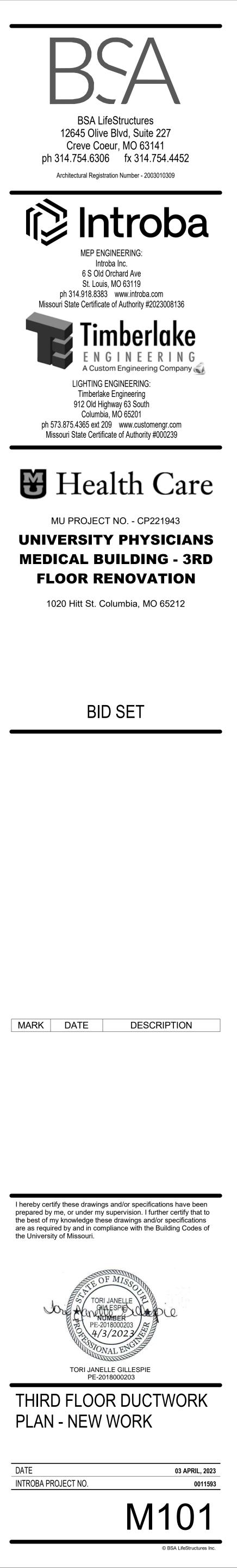
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- REBALANCE EXISTING AIR DEVICE TO CFM NOTED ON PLANS.
- EXISTING VAV DDC POWER SUPPLY UNIT ON WALL TO REMAIN.
- 3. CONNECT NEW FLEXIBLE BRANCH DUCT TO EXISTING SUPPLY AIR DEVICE. PROVIDE TRANSITION TO EXISTING AIR DEVICE NECK SIZE AS REQUIRED.
- 4. 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.
- 6. 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 CEILINGS THAT ARE TO REMAIN. COORDINATE SCHEDULING OF WORK WITH OWNER'S REPRESENTATIVE.
- EXISTING OPEN-ENDED RETURN AIR DUCT ABOVE CEILING. REMOVE FILTER MATERIAL INSTALLED ON OPEN ENDED DUCT AFTER REMODEL IS COMPLETE. REFER TO KEYED NOTE 5 ON SHEET MD101.
- PROVIDE 6"Ø RIGID SUPPLY AIR DUCT CONNECTION TO SOUND BOOTH MANUFACTURER PROVIDED CEILING 9. GRILLE. BALANCE FOR CFM NOTED ON PLAN.
- 10. PROVIDE 6"Ø RIGID RETURN AIR DUCT CONNECTION TO SOUND BOOTH MANUFACTURER PROVIDED CEILING GRILLE.
- 11. REBALANCE EXISTING AIR TERMINAL UNIT VAV-1-306 TO CFM NOTED ON PLAN. AIRFLOW IS BASED ON TESTING, ADJUSTING AND BALANCING REPORT FOR PROJECT #CP171063 DATED JULY 26, 2019.
- 12. INSTALL 12"x12" RETURN AIR TRANSFER DUCT ABOVE CEILING. SIZE NOTED IS SHEETMETAL SIZE. REFER TO DETAIL 7 ON SHEET M500.



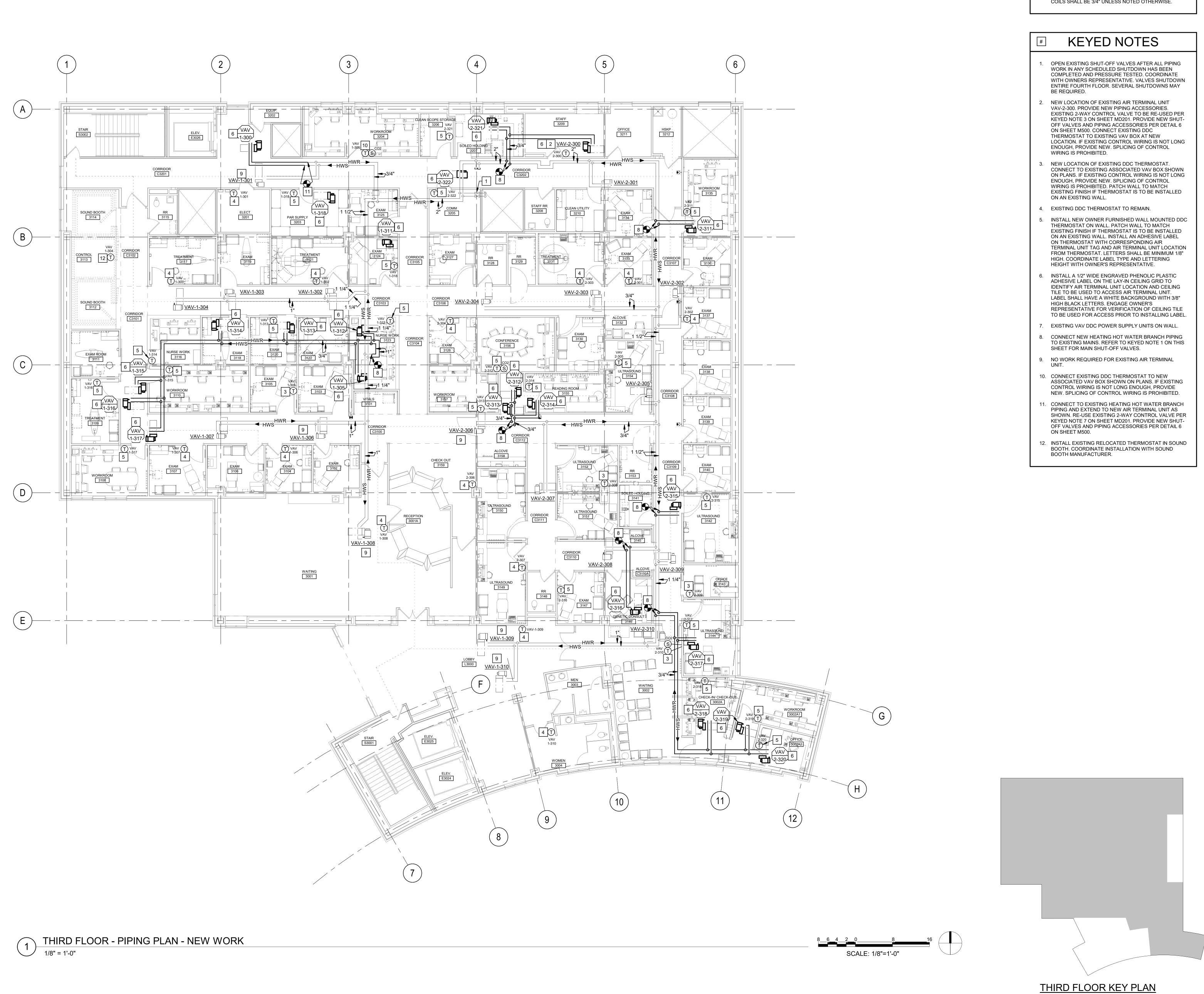
SCALE: 1/8

THIRD FLOOR KEY PLAN





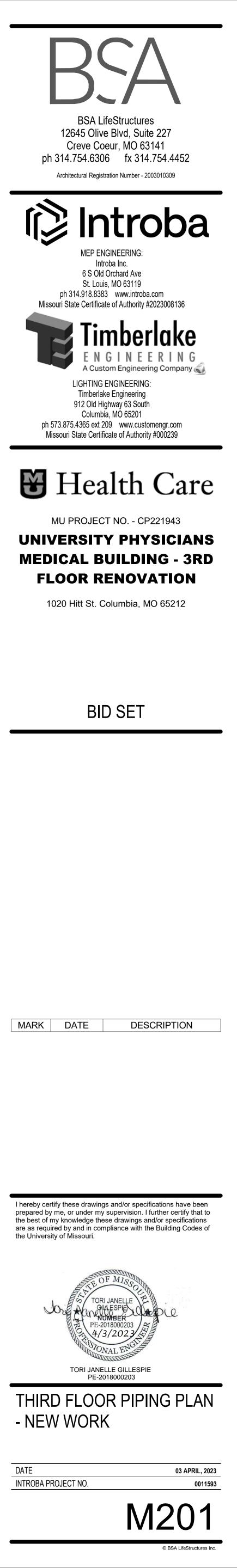


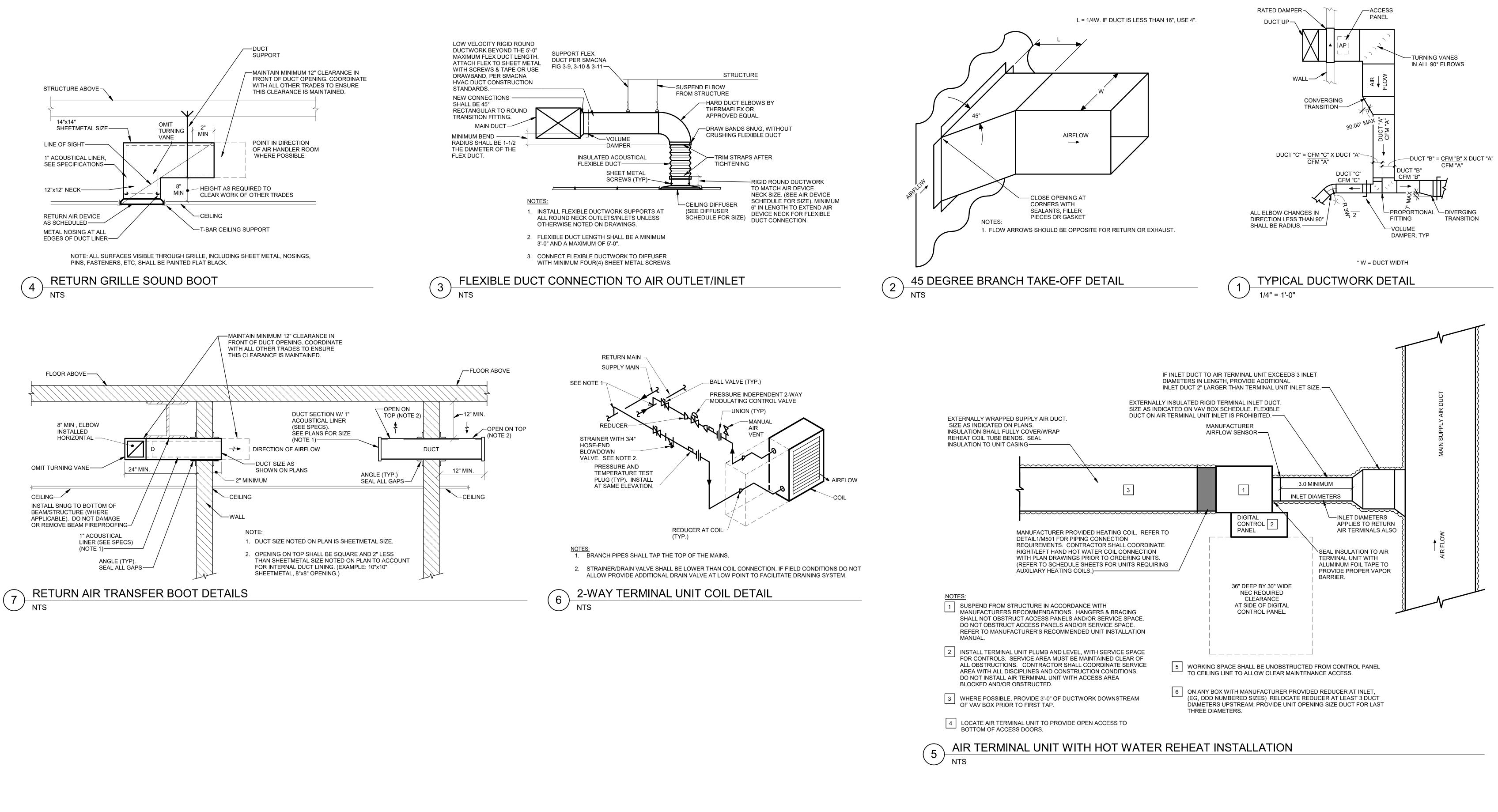


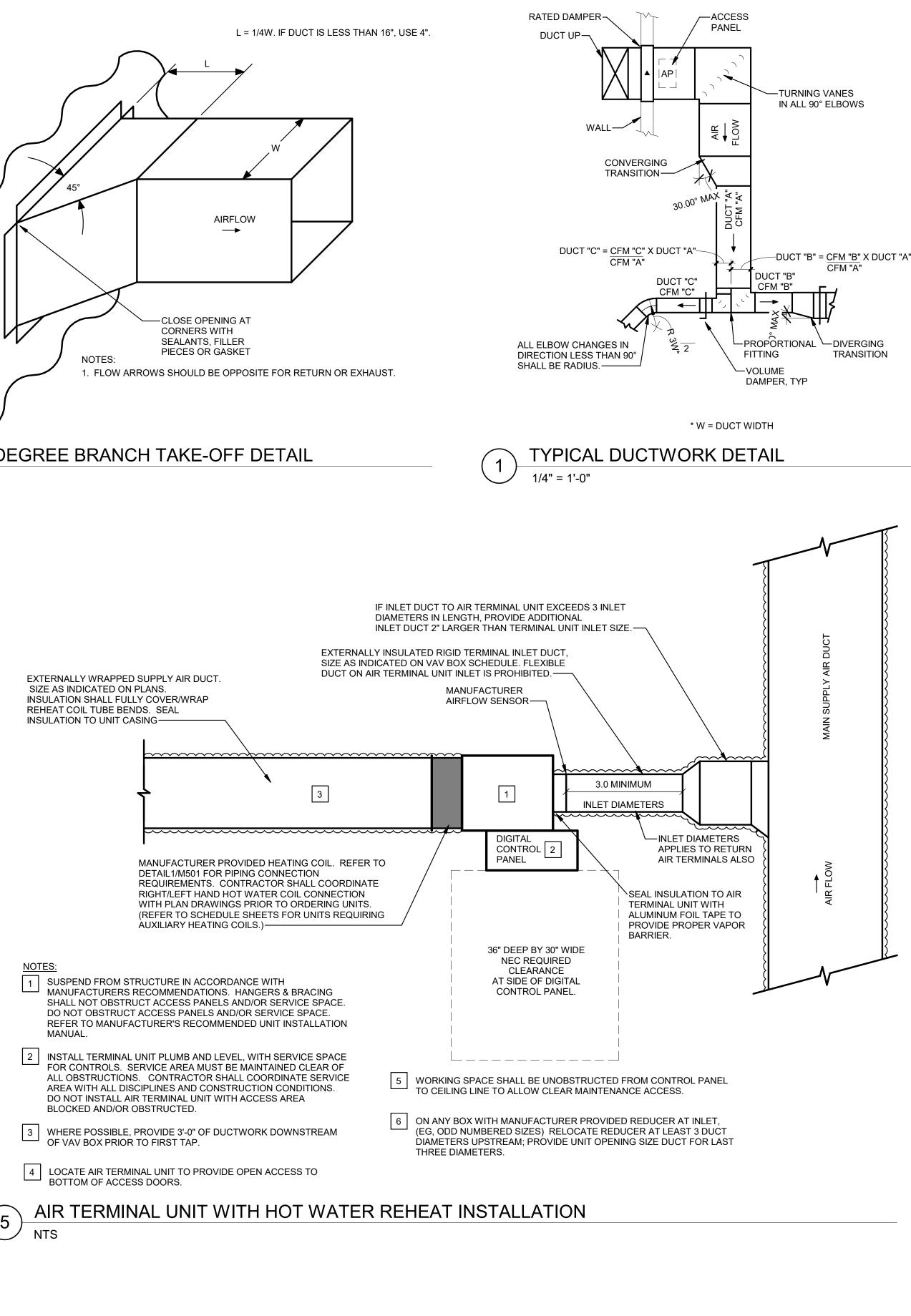
# GENERAL NOTES

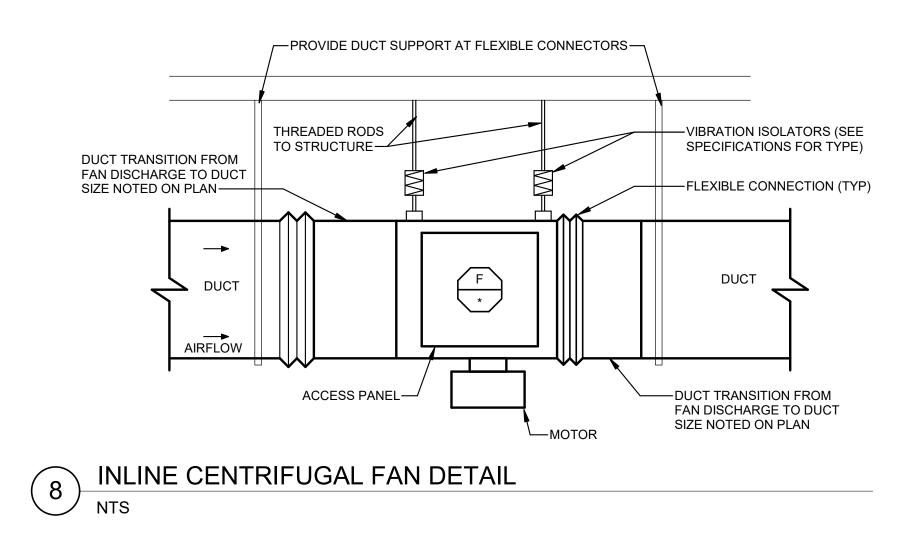
- A. REFER TO SHEET M000 FOR GENERAL NOTES.
- B. BRANCH PIPE SIZES TO AIR TERMINAL UNITS REHEAT COILS SHALL BE 3/4" UNLESS NOTED OTHERWISE.

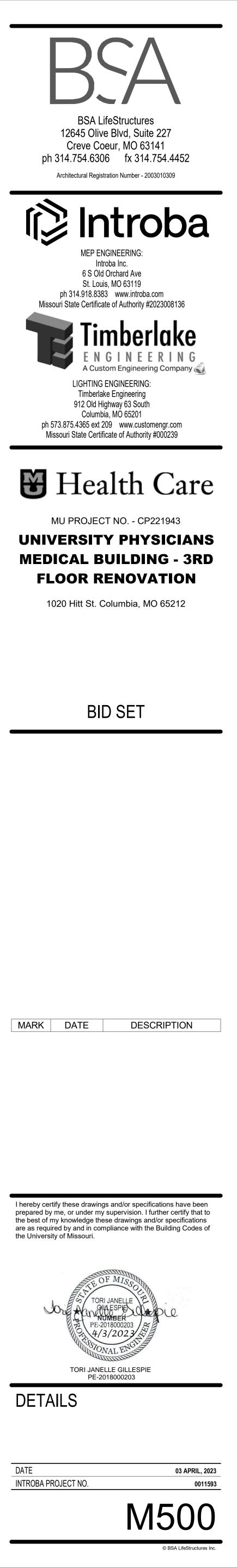
#	KEYED NOTES
1.	OPEN EXISTING SHUT-OFF VALVES AFTER ALL PIPING WORK IN ANY SCHEDULED SHUTDOWN HAS BEEN COMPLETED AND PRESSURE TESTED. COORDINATE WITH OWNERS REPRESENTATIVE. VALVES SHUTDOWN ENTIRE FOURTH FLOOR. SEVERAL SHUTDOWNS MAY BE REQUIRED.
2.	NEW LOCATION OF EXISTING AIR TERMINAL UNIT VAV-2-300. PROVIDE NEW PIPING ACCESSORIES. EXISTING 2-WAY CONTROL VALVE TO BE RE-USED PER KEYED NOTE 3 ON SHEET MD201. PROVIDE NEW SHUT- OFF VALVES AND PIPING ACCESSORIES PER DETAIL 6 ON SHEET M500. CONNECT EXISTING DDC THERMOSTAT TO EXISTING VAV BOX AT NEW LOCATION. IF EXISTING CONTROL WIRING IS NOT LONG ENOUGH, PROVIDE NEW. SPLICING OF CONTROL WIRING IS PROHIBITED.
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 OWNER'S REPRESENTATIVE.
6.	INSTALL A 1/2" WIDE ENGRAVED PHENOLIC PLASTIC ADHESIVE LABEL ON THE LAY-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.	NO WORK REQUIRED FOR EXISTING AIR TERMINAL UNIT.
10.	CONNECT EXISTING DDC THERMOSTAT TO NEW ASSOCIATED VAV BOX SHOWN ON PLANS. IF EXISTING CONTROL WIRING IS NOT LONG ENOUGH, PROVIDE NEW. SPLICING OF CONTROL WIRING IS PROHIBITED.
11.	CONNECT TO EXISTING HEATING HOT WATER BRANCH PIPING AND EXTEND TO NEW AIR TERMINAL UNIT AS SHOWN. RE-USE EXISTING 2-WAY CONTROL VALVE PER KEYED NOTE 7 ON SHEET MD201. PROVIDE NEW SHUT- OFF VALVES AND PIPING ACCESSORIES PER DETAIL 6 ON SUJECT MEDIC











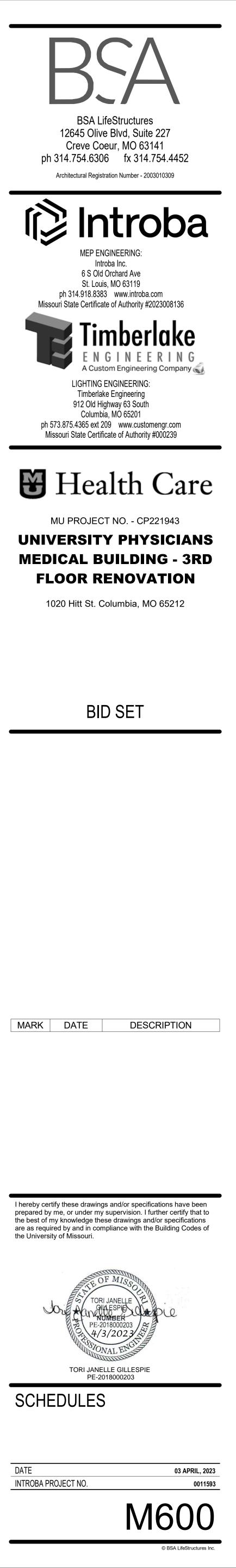
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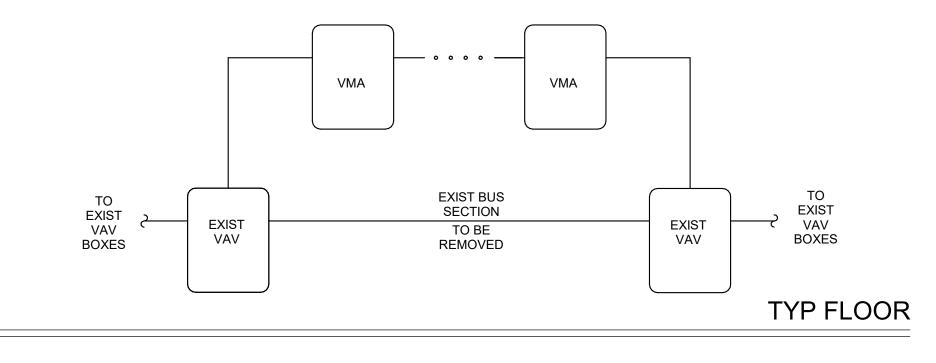
									<b>AIR TERMI</b>	INAL UN	IT SCHED	DULE											
2. PRC 3. DES 4. PRC 5. EXI 6. HO <sup>-</sup> 7. AIR	VIDE THE NUMBE IGN SUPPLY AIR VIDE WITH BOTT STING AIR TERMIN WATER REHEAT	ER OF COIL ROW TEMPERATURE OM ACCESS DO NAL UNIT. WATER FLOW ( ED ON TESTING,	/S AS REQUIR LIMITS THE TE OR PER THE S GPM) IS NOT F	( AND REHEAT COIL (WHERE APPLICABLE). ED TO MEET SCHEDULED PERFORMANCE AN EMPERATURE TO 15 °F ABOVE THE SPACE SE SPECIFICATIONS. REQUIRED TO BE REBALANCED. AND BALANCING REPORT FOR PROJECT #CP <sup>-</sup>	ETPOINT OF 72 °	°F TO 87°F TO MA	XIMIZE THE VEN	NTILATION EFFEC	TIVENESS NOTED IN .	ASHRAE 62.1 - \	/ENTILATION FOR	ACCEPTABLE	INDOOR AIR QU	ALITY. LEAVING	AIR TEMPERAT	URE NOTED IS	9 PROGRAMM	IED FOR MORNING \	Warm-up of	NLY. GPM NOT	TED IS BASED O	N 95°F LAT.	
MARK							RFLOW (CFM)								AUXILIARY HO	OT WATER HEA	TING COIL				MAX NC LEV	EL @ MAX CFM	
ID #	EXISTING/ NEW	MFR.	MODEL	ТҮРЕ	ROUND DUCT INLET SIZE (IN)	COOLING MAX		UNOCCUPIED AIRFLOW (CFM)	DESIGN INLET STATIO PRESSURE (IN WC)		OUTLET DUCT SIZE WxD (IN)	AIRFLOW (CFM)	CAPACITY (MBH)	EAT (°F)	LAT (°F) (NOTE 3)	EWT/LWT (°F		HD)	X APD (IN WC) (IN WC)	CONTROL VALVE	DISCHARGE		NOTES
VAV 1-000	EXISTING	CARNES	AVWD	SINGLE DUCT PRESSURE INDEPENDENT	12	580	290	135	-	-	16x15	290	-	55	-	180/140	-	-	-	-	-	-	5, 6
VAV 1-001	EXISTING	CARNES	AVWD	SINGLE DUCT PRESSURE INDEPENDENT	7	650	-	-	-	-	12x10	-	-	55	-	180/140	-	-	-	-	-	-	5, 6, 7
VAV 1-300	NEW		DESV	SINGLE DUCT PRESSURE INDEPENDENT	8	620	620	310	1.2	0.5	12x10	620	26.8	55	95	180/140	1.3	5.0	0.25		30	30	2, 4
VAV 1-301	EXISTING EXISTING	CARNES CARNES	AVWD AVWD	SINGLE DUCT PRESSURE INDEPENDENT SINGLE DUCT PRESSURE INDEPENDENT	/ 0	510	50 70	50 50	-	-	12x10 12x10	- 70	-	- 55	-	- 180/140	-	-	-	-	-	-	5, 7, 8
VAV 1-302 VAV 1-303	EXISTING	CARNES	AVWD	SINGLE DUCT PRESSURE INDEPENDENT	0 8	135	95	50	-	-	12x10 12x10	95	-	55	-	180/140	-	-	-	-	-	-	5, 6
VAV 1-303	EXISTING	CARNES	AVWD	SINGLE DUCT PRESSURE INDEPENDENT	10	290	145	75	-	-	14x12 1/2	145	-	55	-	180/140	-		-		-	-	5, 6
VAV 1-305	NEW	TITUS	DESV	SINGLE DUCT PRESSURE INDEPENDENT	6	120	60	50	1.2	0.5	12x8	60	2.6	55	95	180/140	0.5	-	-	-	-	-	2, 4
VAV 1-306	EXISTING	CARNES	AVWD	SINGLE DUCT PRESSURE INDEPENDENT	7	285	145	145	-	-	12x10	145	-	55	-	180/140	-	-	-	-	-	-	5, 6
VAV 1-307	EXISTING	CARNES	AVWD	SINGLE DUCT PRESSURE INDEPENDENT	6	95	95	50	-	-	12x8	95	-	55	-	180/140	-	-	-	-	-	-	5, 6
VAV 1-308	EXISTING	CARNES	AVWD	SINGLE DUCT PRESSURE INDEPENDENT	12	1110	555	555	-	-	16x15	555	-	55	-	180/140	-	-	-	-	-	-	5, 6
VAV 1-309	EXISTING	CARNES	AVWD	SINGLE DUCT PRESSURE INDEPENDENT	12	1500	750	750	-	-	16x15	750	-	55	-	180/140	-	-	-	-	-	-	5, 6
VAV 1-310	EXISTING	CARNES	AVWD	SINGLE DUCT PRESSURE INDEPENDENT	6	340	170	170	-	-	12x8	170	-	55	-	180/140	-	-	-	-	-	-	5, 7
VAV 1-311	NEW	TITUS	DESV	SINGLE DUCT PRESSURE INDEPENDENT	6	120	60	50	1.2	0.5	12x8	60	2.6	55	95	180/140	0.5	5.0	0.25	2-WAY	30	30	2, 4
VAV 1-312	NEW	TITUS TITUS	DESV	SINGLE DUCT PRESSURE INDEPENDENT SINGLE DUCT PRESSURE INDEPENDENT	6	140	10	50	1.2	0.5	12x8	<u> </u>	3.0	55	95	180/140	0.5	5.0	0.25	2-WAY			2,4
VAV 1-313 VAV 1-314	NEW	TITUS	DESV DESV	SINGLE DUCT PRESSURE INDEPENDENT	6	180	90 80	50 50	<u> </u>	0.5	12x8 12x8	90 80	3.9	55 55	95 95	180/140 180/140	0.5	5.0	0.25	2-WAY 2-WAY	30	30 30	2, 4
VAV 1-314 VAV 1-315	NEW	TITUS	DESV	SINGLE DUCT PRESSURE INDEPENDENT	6	245	125	65	1.2	0.5	12x8	125	5.4	55	95	180/140	0.5	5.0	0.25	2-WAT 2-WAY	30	30	2,4
VAV 1-316	NEW	TITUS	DESV	SINGLE DUCT PRESSURE INDEPENDENT	6	225	225	115	1.2	0.5	12x8	225	9.7	55	95	180/140	0.5	5.0	0.25	2-WAT	30	30	2,4
VAV 1-317	NEW	TITUS	DESV	SINGLE DUCT PRESSURE INDEPENDENT	8	530	530	265	1.2	0.5	12x10	530	22.9	55	95	180/140	1.1	5.0	0.25	2-WAY	30	30	2,4
VAV 1-318	NEW	TITUS	DESV	SINGLE DUCT PRESSURE INDEPENDENT	6	125	50	50	1.2	0.5	12x8	50	2.2	55	95	180/140	0.5	5.0	0.25	2-WAY	30	30	2,4
VAV 2-300	EXISTING	CARNES	AVWD	SINGLE DUCT PRESSURE INDEPENDENT	7	240	240	120	-	-	12x10	240	10.4	55	-	180/140	0.5	-	-	-	-	-	5, 6
VAV 2-301	EXISTING	CARNES	AVWD	SINGLE DUCT PRESSURE INDEPENDENT	5	170	85	50	-	-	12x8	85	-	55	-	180/140	-	-	-	-	-	-	5, 6
VAV 2-302	EXISTING	CARNES	AVWD	SINGLE DUCT PRESSURE INDEPENDENT	7	500	500	250	-	-	12x10	500	-	55	-	180/140	-	-	-	-	-	-	5, 6
VAV 2-303	EXISTING	CARNES	AVWD	SINGLE DUCT PRESSURE INDEPENDENT	7	200	100	50	-	-	12x10	100	-	55	-	180/140	-	-	-	-	-	-	5, 6
VAV 2-304	EXISTING	CARNES	AVWD	SINGLE DUCT PRESSURE INDEPENDENT	7	235	120	60	-	-	12x10	120	-	55	-	180/140	-	-	-	-	-	-	5, 6
VAV 2-305	EXISTING	CARNES	AVWD	SINGLE DUCT PRESSURE INDEPENDENT	10	200	100	50	-	-	14x12 1/2	100	-	55	-	180/140	-	-	-	-	-	-	5,6
VAV 2-306 VAV 2-307	EXISTING EXISTING	CARNES CARNES	AVWD AVWD	SINGLE DUCT PRESSURE INDEPENDENT SINGLE DUCT PRESSURE INDEPENDENT	8 7	895 400	445 200	445	-	-	12x10 12x10	<u>445</u> 200	-	55 55	-	180/140 180/140	-	-	-	-	-	-	5, 7
VAV 2-307 VAV 2-308	EXISTING	CARNES	AVWD	SINGLE DUCT PRESSURE INDEPENDENT	10	400	200	100	-	-	12x10 14x12 1/2	100	-	55	-	180/140	-	-	-	-	-	-	5, 6
VAV 2-308 VAV 2-309	EXISTING	CARNES	AVWD	SINGLE DUCT PRESSURE INDEPENDENT	5	100	50	50	-	-	14x12 1/2 12x8	100	-	55	-	180/140	-	-	-		-	-	5, 6
VAV 2-310	EXISTING	CARNES	AVWD	SINGLE DUCT PRESSURE INDEPENDENT	10	840	840	420	-	-	14x12 1/2	840	-	55	-	180/140	-	-	-	-	-	-	5, 6
VAV 2-311	NEW	TITUS	DESV	SINGLE DUCT PRESSURE INDEPENDENT	8	390	390	195	1.2	0.5	12x10	390	16.8	55	95	180/140	0.8	5.0	0.25		30	30	2, 4
VAV 2-312	NEW	TITUS	DESV	SINGLE DUCT PRESSURE INDEPENDENT	6	210	105	55	1.2	0.5	12x8	105	4.5	55	95	180/140	0.5	5.0	0.25		30	30	2, 4
VAV 2-313	NEW	TITUS	DESV	SINGLE DUCT PRESSURE INDEPENDENT	6	160	80	50	1.2	0.5	12x8	80	3.5	55	95	180/140	0.5	5.0	0.25		30	30	2, 4
VAV 2-314	NEW	TITUS	DESV	SINGLE DUCT PRESSURE INDEPENDENT	6	340	75	50	1.2	0.5	12x8	170	7.4	55	95	180/140	0.5	5.0	0.25		30	30	2, 4
VAV 2-315	NEW	TITUS	DESV	SINGLE DUCT PRESSURE INDEPENDENT	6	210	105	55	1.2	0.5	12x8	105	4.5	55	95	180/140	0.5	5.0	0.25		30	30	2, 4
VAV 2-316	NEW	TITUS	DESV	SINGLE DUCT PRESSURE INDEPENDENT	6	165	85	50	1.2	0.5	12x8	85	3.7	55	95	180/140	0.5	5.0	0.25		30	30	2, 4
VAV 2-317	NEW	TITUS	DESV	SINGLE DUCT PRESSURE INDEPENDENT	8	560	560	280	1.2	0.5	12x10	560	24.2	55	95	180/140	1.2	5.0	0.25		30	30	2, 4
VAV 2-318	NEW	TITUS	DESV	SINGLE DUCT PRESSURE INDEPENDENT	6	320	160	160	1.2	0.5	12x8	320	13.8	55	95	180/140	0.7	5.0	0.25		30	30	2,4
VAV 2-319 VAV 2-320	NEW NEW	TITUS TITUS	DESV DESV	SINGLE DUCT PRESSURE INDEPENDENT SINGLE DUCT PRESSURE INDEPENDENT	b 6	220	110	110	<u> </u>	0.5	12x8 12x8	220 210	9.5 9.1	55	95	180/140 180/140	0.5	5.0	0.25		30 30	30 30	2, 4
VAV 2-320 VAV 2-321	NEW	TITUS	DESV	SINGLE DUCT PRESSURE INDEPENDENT	6	210	210 180	105 160	1.2	0.5	12x8	180	7.8	55 55	95 95	180/140	0.5	5.0 5.0	0.25		30	30	2, 4
VAV 2-321 VAV 2-322	NEW	TITUS	DESV	SINGLE DUCT PRESSURE INDEPENDENT	14	1300	180	180	1.2	0.5	20x17 1/2	-	-	-	-	-	-	-	-	-	30	30	4, 8

							AIR CHANGE R	ATE SCHEDULE								
				ROOM		SUPP	LY AIR			OUTS	DE AIR			EXHAL	JST AIR	
ROOM #	ROOM NAME	AREA (SF)	CEILING HEIGHT (FT)	VOLUME	ASHRAE	170-2017	DE	SIGN	ASHRAE	170-2017	DE	SIGN	ASHRAE	170-2017	DE	SIGN
				(CU.FT.)	AC/ HOUR	SA CFM	SA CFM	AC/ HOUR	AC/ HOUR	OA CFM	OA CFM	AC/ HOUR	AC/ HOUR	EA CFM	EA CFM	AC/ HOUR
3111	EXAM	102	8	816	4	54.4	95	7.0	2	27.2	27.2	2	-	-	-	-
3109	TREATMENT	144	8	1152	6	115.2	130	6.8	2	38.4	38.4	2	-	-	-	-
3107	EXAM	132	8	1056	4	70.4	95	5.4	2	35.2	35.2	2	-	-	-	-
3118	EXAM	99	8	792	4	52.8	60	4.5	2	26.4	26.4	2	-	-	-	-
3120	EXAM	101	8	808	4	53.9	60	4.5	2	26.9	26.9	2	-	-	-	-
3122	EXAM	105	8	840	4	56	60	4.3	2	28.0	28.0	2	-	-	-	-
3105	EXAM	101	8	808	4	53.9	60	4.5	2	28.0	28.0	2	-	-	-	-
3103	EXAM	112	8	896	4	59.7	60	4.0	2	29.9	29.9	2	-	-	-	-
3117	TREATMENT	148	8	1184	6	118.4	120	6.1	2	34.5	34.5	2	-	-	-	-
3119	EXAM	120	8	960	4	64	65	4.1	2	32.0	32.0	2	-	-	-	-
3121	TREATMENT	164	8	1312	6	131.2	135	6.2	2	43.7	43.7	2	-	-	-	-
3124	EXAM	104	8	832	4	55.5	60	4.3	2	27.7	27.7	2	-	-	-	-
3125	EXAM	104	8	832	4	55.5	60	4.3	2	27.7	27.7	2	-	-	-	-
3207	SOILED HOLDING	152	8	1216	-	-	-	-	-	-	-	-	10	202.7	205	10.1
3127	EXAM	108	8	864	4	57.6	60	4.2	2	28.8	28.8	2	-	-	-	-
3131	TREATMENT	154	8	1232	6	123.2	200	9.7	2	41.1	41.1	2	-	-	-	-
3133	EXAM	100	8	800	4	53.3	60	4.5	2	26.7	26.7	2	-	-	-	-
3134	EXAM	100	8	800	4	53.3	60	4.5	2	26.7	26.7	2	-	-	-	-
3206	CLEAN SCOPE STORAGE	64	8	512	4	34.1	50	5.6	2	17.1	17.1	2	-	-	-	-
3210	CLEAN UTILITY	92	8	736	4	49.1	50	4.1	2	24.5	24.5	2	-	-	-	-
3126	EXAM	100	8	800	4	53.3	60	4.5	2	26.7	26.7	2	-	-	-	-
3130	EXAM	117	8	936	4	62.4	65	4.2	2	31.2	31.2	2	-	-	-	-
3154	ULTRASOUND	151	8	1208	6	120.8	200	9.9	2	40.3	40.3	2	-	-	-	-
3150	ULTRASOUND	161	8	1288	6	128.8	200	9.3	2	42.9	42.9	2	-	-	-	-
3149	ULTRASOUND	182	8	1456	6	145.6	200	8.2	2	48.5	48.5	2	-	-	-	-
3152	ULTRASOUND	129	8	1032	6	103.2	200	11.6	2	34.4	34.4	2	-	-	-	-
3151	ULTRASOUND	125	8	1000	6	100	200	12.0	2	33.3	33.3	2	-	-	-	-
3147	EXAM	111	8	888	4	59.2	60	4.1	2	29.6	29.6	2	-	-	-	-
3153	RR	56	8	448	-	-	-	-	-	-	-	-	10	74.7	75	10.0
3141	SOILED HOLDING	63	8	504	-	-	-	-	-	-	-	-	10	84	85	10.1
3142	ULTRASOUND	176	8	1408	6	140.8	210	8.9	2	46.9	46.9	2	-	-	-	-
3144	ULTRASOUND	184	8	1472	6	147.2	560	22.8	2	49.1	49.1	2	-	-	-	-
3129	RR	60	8	480	-	-	-	-	-	-	-	-	10	80	80	10.0

					AIR	DEVICE	SCH	EDULE						
<u>IOTE</u> 1. 2.	COC			FRAME TYPE WITH ARCHITEC FOIL-FACED MOLDED INSULA										
MA ID	RK #	MFR.	MODEL	TYPE	LOCATION	SERVICE	NECK SIZE (IN)	FACE SIZE (IN x IN)	MATERIAL	FINISH	MAX TPD (IN WC)	MAX NOISE (NC)	MAX CFM @ LISTED CONDITIONS	NOTE
S	1	TITUS	OMNI	SQUARE PLAQUE	CEILING	SUPPLY AIR	6	24x24	STEEL	WHITE	0.1	30	130	1, 2
S	2	TITUS	OMNI	SQUARE PLAQUE	CEILING	SUPPLY AIR	8	24x24	STEEL	WHITE	0.1	30	280	1, 2
S	3	TITUS	OMNI	SQUARE PLAQUE	CEILING	SUPPLY AIR	10	24x24	STEEL	WHITE	0.1	30	420	1, 2
S	5	TITUS	301RL	LOUVERED FACE	WALL	SUPPLY AIR	30x12	32x14	STEEL	WHITE	0.1	30	1370	2
R	1	TITUS	PAR	PERFORATED FACE	CEILING	RETURN AIR	12x12	24x24	STEEL	WHITE	0.1	30	550	1
२	2	TITUS	PAR	PERFORATED FACE	CEILING	RETURN AIR	22x22	24x24	STEEL	WHITE	0.1	30	1700	1
२	3	TITUS	350RL	LOUVERED FACE	WALL	RETURN AIR	30x12	32x14	STEEL	WHITE	0.1	30	1375	
Ξ	1	TITUS	PAR	PERFORATED FACE	CEILING	EXHAUST AIR	6	24x24	STEEL	WHITE	0.1	30	155	1
F	3	TITUS	PAR	PERFORATED FACE	CEILING	EXHAUST AIR	10	24x24	STEEL	WHITE	0.1	30	420	1

								FAN SCH	HEDULE													
<u>NOTES:</u> 1. 2. 3. 4.	SOUN PROV PROV	IDE WITH ECM M	OTOR WITH MAN	NUFACTURERS	6, REFERRED TO 10(-12) WA MOTOR MOUNTED POTENT CONNECT SWITCH. DR.		ED PER AMCA S	TANDARD 301.														
MA	RK										MAX SC	OUND PC	WER R	ATING (I	NLET / 0	OUTLET	)	MAX WEIGHT	ELE	CTRICAL	DATA	
ID	#	MFR.	MODEL	TYPE	SERVICE	DRIVE	AIRFLOW (CFM)	ESP (IN WC)	MAX FAN SPEED (RPM)				OC	TAVE					HP		PHASE	NOTES
טו	#									63	125	250	500	1000	2000	4000	8000			VOLIS	FNAJE	
EF	8	GREENHECK	SQ-120-VG	INLINE	GENERAL EXHAUST	DIRECT	715	0.5	1062	65	63	62	60	54	50	45	39	55	1/2	115	1	1, 2, 3, 4



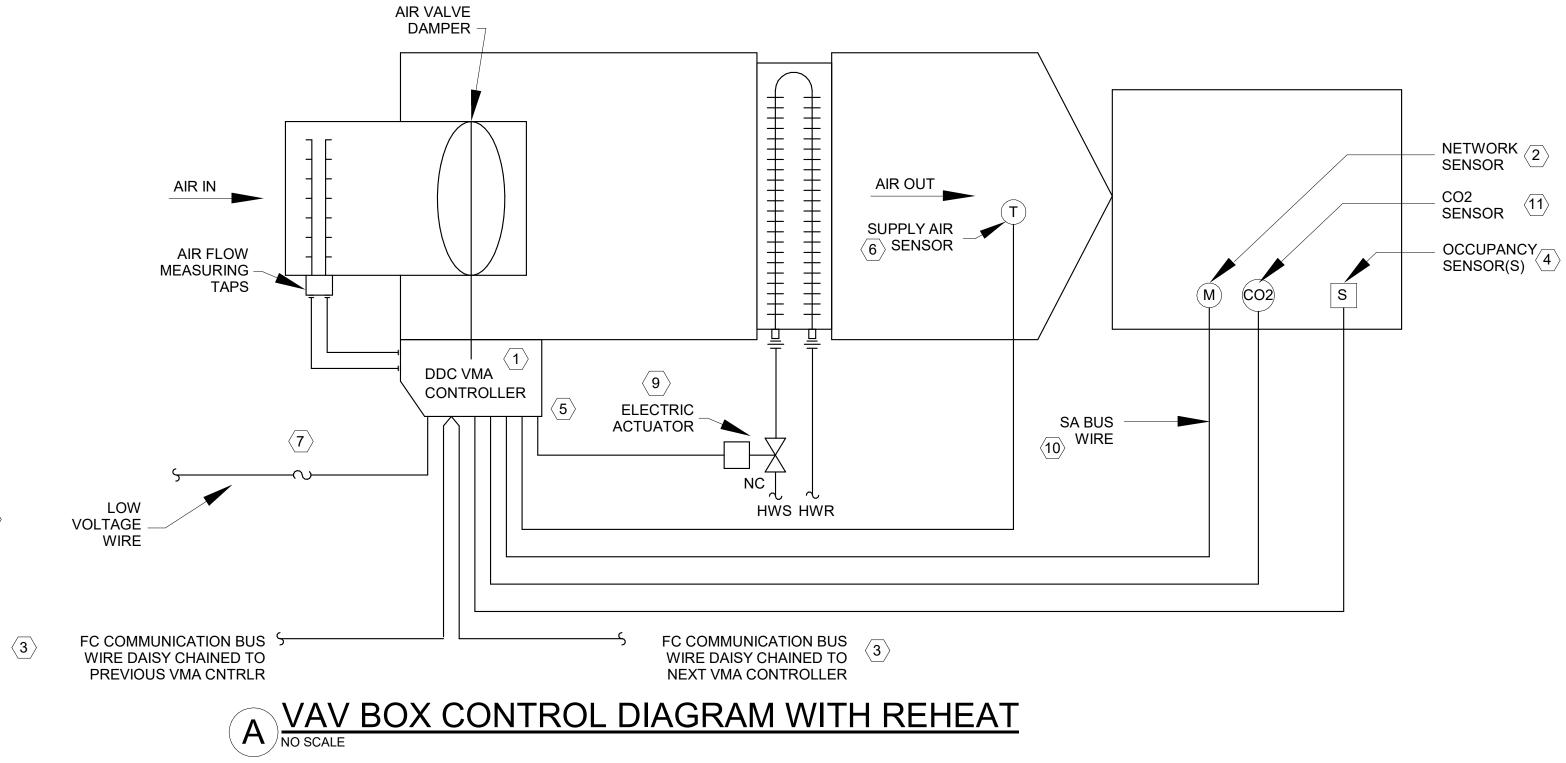


#### NOTES:

- 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.
- 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.
- FC COMMUNICATION BUS WIRE SHALL BE 22 AWG, PLENUM RATED, TWISTED SHIELDED, 3 CONDUCTOR, WITH BLUE 3 OUTER CASING, DESCRIPTED 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

1**4110** Design Author



#### NOTES:

**8** 

- 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 NEOPREME CAPS OR 1/4" BRASS PLUGS. NO RUBBER CAPS ALLOWED.

#### **KEYED NOTES:**

- CONTROLLER WILL BE FURNISHED BY OWNER. CONTROLLER WILL BE JCI MODEL MS-VMA-16XX SERIES OR M4-CVM-3050. PROGRAMMING WILL BE PROVIDED 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, DESCRIPTED 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.
- CONTROLLER MUST HAVE A MINIMUM OF 18 INCHES OF ACCESSIBLE CLEARANCE.  $\langle 5 \rangle$
- 6 VAV SUPPLY TEMP SENSOR 1000 OHM PLATINUM RTD LOCATED APPROX. 8 FT. FROM VAV BOX DISCHARGE. PROVIDED, INSTALLED, & WIRED TO CONTROLLER BY CONTRACTOR.
- $\langle 7 \rangle$  FUSE LOCATED WITHIN 2 FT. OF VMA CONTROLLER.
- LOW VOLTAGE WIRE BY DIVISION 23. SEE ELECTRICAL DRAWINGS FOR SOURCE. < 8 /
- VALVE WITH PROPORTIONAL 0-10 VOLT ACTUATOR OR EQUIVALENT.
- SA BUS WIRE SHALL BE 22 AWG, PLENUM RATED, TWISTED SHIELDED, 4 CONDUCTOR. \10/
- $\langle 11 \rangle$  CO2 SENSOR. SEE PLANS FOR LOCATIONS.

TYPE BI BO

POINT NAME

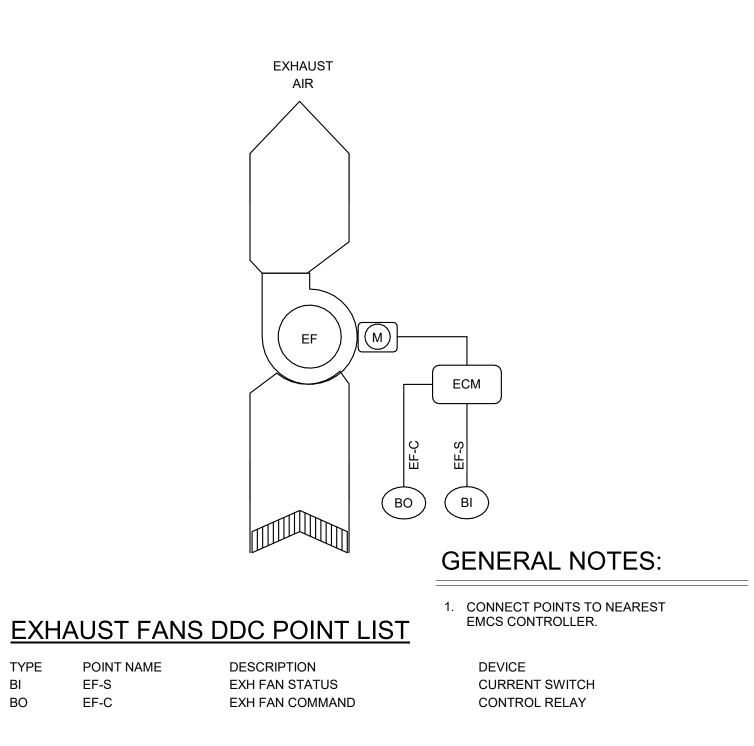
EF-S

EF-C

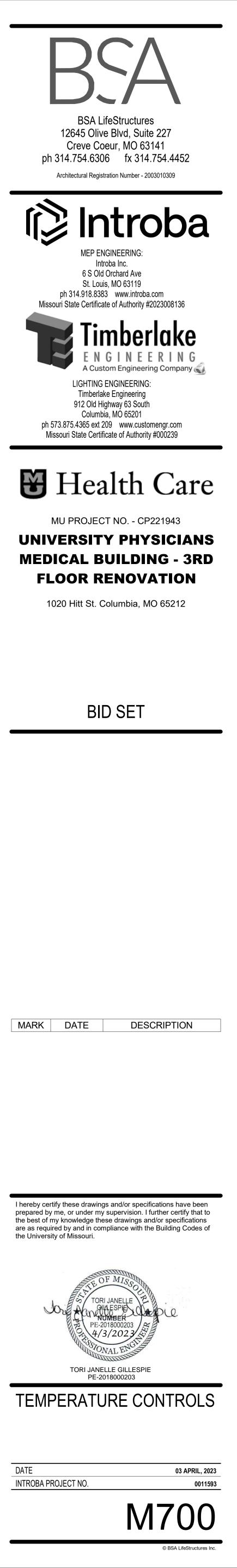
#### **TEMPERATURE CONTROLS GENERAL NOTES**

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.



# C EXHAUST FAN CONTROL DETAIL



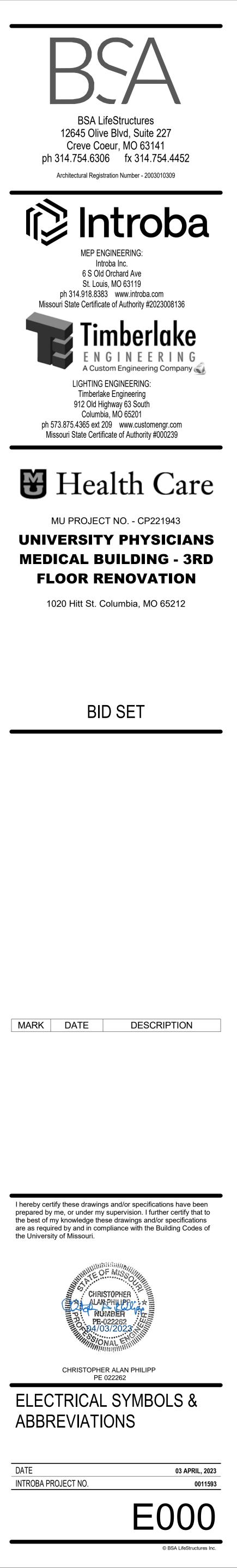
=L	ECTRICAL GENERAL NOTES	
	MAKE ALL INSTALLATIONS IN ACCORDANCE WITH THE [AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG)] AND/OR ARCHITECTURAL BARRIERS ACT (ABA). MOUNTING HEIGHTS INDICATED WITHIN PLANS AND SCHEDULES ARE DIMENSIONED TO	# PLAN DETA
	THE CENTER LINE OF THE DEVICE, EQUIPMENT, LUMINAIRE, ETC. UNLESS OTHERWISE NOTED.	# KEYED NOT
	COORDINATE EXACT EQUIPMENT LOCATIONS WITH OTHER TRADES. EQUIPMENT LOCATIONS SHOWN ON ELECTRICAL PLANS ARE DIAGRAMMATICAL ONLY AND MIGHT NOT BE EXACT.	PLAN NORTH NORTH ARF
	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, SWITCHBOARDS AND SWITCHGEAR TO	PLAN MARK EQUIPMEN SCHEDULE REQUIREM
	ACCURATELY REFLECT THE AS-BUILT CONDITIONS.	
	OF ANY NORMAL POWER DEVICE. 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.	E100 E100 ENLARGED SHEET NUM
	COORDINATE VERTICAL CONDUIT ROUTING TO WALL MOUNTED DEVICES TO ENSURE DEVICES LOCATED WITHIN AN 18-INCH HORIZONTAL DIMENSION WILL BE CENTER-ALIGNED	ABBREVIATIONS
	VERTICALLY. CONCEAL ELECTRICAL CONNECTIONS FOR ELECTRIC WATER COOLERS (EWC) BEHIND WATER COOLER ACCESS PLATE OR DIRECTLY BELOW AND CENTERED ON WALL.	A.F.F : ABOVE FINISHED FLOOR C : CONDUIT E.C. : ELECTRICAL CONTRACTO ER : EXISTING RELOCATED
	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.	ETR : EXISTING TO REMAIN EWC : ELECTRIC WATER COOLE G.C. : GENERAL CONTRACTOR GND : GROUND TYP. : TYPICAL U.O.N. : UNLESS OTHERWISE NO
).	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.	LINE TYPE LEGEN
1.	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.	EXISTING T (LIGHT, SOL
2.	INSTALL A PERMANENT DIRECTORY ACCORDING TO THE NATIONAL ELECTRICAL CODE, ARTICLE 230 AT EACH SERVICE ENTRANCE AND POWER SOURCE.	NEW WORK (DARK, SOL
3.	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.	(DARK, DAS NEW WORK INSTALLED (DARK, LON
1.	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.	WIRING PLANS
5.	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.	1. PROVIDE WIRING REQUIRED REQUIREMENTS FOR THE P, TYPICAL 120V HOMERUNS S CONDUCTORS IN 3/4" COND OTHERWISE. NO SHARED NI MAXIMUM OF NINE CURREN ALLOWED IN A RACEWAY. N CONSIDERED CURRENT-CA
GE	ENERAL DEMOLITION NOTES	EXCEEDING 75'-0" IN LENGTI SIZE FOR THE CIRCUIT AMP.
	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. WHERE NUMBER OF CURRE RACEWAY EXCEEDS THREE CONDUCTOR SHALL BE REE FACTOR TABLE IN THE NATH FACTORS SHALL NOT BE US CONDUCTORS SHALL BE CO CONDUCTORS.
	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.	CONDUIT T CONDUIT T CONDUIT C CABLE TRA
	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.	BUSWAY HOMERUN
	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.	HACHURES IN CONDUIT NOTE: LON
	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.	GROUND MEUTRAL PHASE CON
	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.	
	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. TAKE ALL REMOVED MATERIALS FROM THE PROJECT SITE, EXCEPT FOR THOSE TO BE RELOCATED, STORED, OR TURNED OVER TO THE OWNER.	
Ň	ACCEPTANCE OF CONTRACT MEANS INSTALLER ACCEPTS EXISTING CONDITIONS.	
).	COORDINATE ALL DEMOLITION WORK WITH ALL OTHER TRADES. 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.	
2.	LEGALLY DISPOSE OF HAZARDOUS MATERIALS AND BALLASTS OR OTHER EQUIPMENT CONTAINING PCBS AND LAMPS CONTAINING MERCURY. COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS. RE3FER TO FRONT END DOCUMENTS.	
3.	UPON COMPLETION OF CONSTRUCTION, PROVDE 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	

REFERENCES	POWER EQUIPMENT	LUMINAIRES
PLAN DETAIL REFERENCE TITLE KEYED NOTE DESIGNATION NORTH ARROW PLAN MARK EQUIPMENT DESIGNATION REFER TO MEP SCHEDULE FOR CIRCUITING AND DEVICE REQUIREMENTS AND FLOOR PLANS FOR LOCATIONS —EQUIPMENT NUMBER	MOTOR : SEE EQUIPMENT DATA SCHEDULE FOR HORSEPOWER MAGNETIC STARTER MAGNETIC STARTER WITH DISCONNECT MAGNETIC STARTER WITH DISCONNECT UNFUSED DISCONNECT SWITCH FUSED DISCONNECT SWITCH MCC MOTOR CONTROL CENTER MCC SWITCHBOARD PANELBOARD (SURFACE) PANELBOARD (FLUSH)	<ol> <li>REFER TO LUMINAIRE S</li> <li>"NL" INDICATES UNSWIT</li> <li>"SE" DESIGNATION INDI OPERATION, BUT UPON OUTPUT VIA BATTERY F LOCAL LIGHTING CONT THE LIGHTING CIRCUIT CONTACTORS, TO THIS</li> <li>SHADING LEGEND (APF LUMINAIRE SYMBOLS):</li> <li>NO SHADING: NOR BATT</li> <li>HALF-SHADING: LIFE BATT</li> </ol>
PLAN MARK ENLARGED PLAN REFERENCE		SWITCHES AND
SHEET NUMBER	Image: Construction of the construc	<ol> <li>TYPICAL MOUNTING HE</li> <li>WHERE TWO OR MORE A COMMON GANG BOX</li> <li>SUBSCRIPT LEGEND: 2 : TWO-POLE SWITCH 3 : THREE-WAY SWITCH 4 : FOUR-WAY SWITCH K : KEY SWITCH D : DIMMER - COORDIN, P : PILOT LIGHT SWITCH C : MOMENTARY CONT, LV : LOW VOLTAGE COUL L : LOW VOLTAGE LOCA</li> </ol>
ELEGEND EXISTING TO REMAIN OR NEW WORK BY OTHERS (LIGHT, SOLID LINE) REW WORK BY THIS CONTRACTOR (DARK, DASHED LINE, DEMOLITION PLANS) EXISTING TO BE REMOVED BY THIS CONTRACTOR (DARK, DASHED LINE, DEMOLITION PLANS) WORK BY THIS CONTRACTOR TO BE INSTALLED UNDERGROUND, OR BELOW FLOOR (DARK, LONG DASHED LINE) UNDERGUIRED BY THE CIRCUITING AND SWITCHING (TS FOR THE PARTICULAR CIRCUITS INVOLVED. DY HOMERUNS SHALL CONSIST OF 412 AWG SIN 344' CONDUIT MINIMUM UNLESS INVOLVED. DY HOMERUNS SHALL CONSIST OF 412 AWG SIN 344' CONDUIT MINIMUM UNLESS INVOLVED. DY HOMERUNS SHALL CONSIST OF 412 AWG SIN 344' CONDUIT MINIMUM UNLESS INTOG AND UNLESS INTOT A PARTICULAR CIRCUITS INVOLVED. DY HOMERUNS SHALL CONSIST OF 412 AWG SIN 344' CONDUIT MINIMUM UNLESS INTOG AND UNLESS INTOT A PARTICULAR CIRCUITS INVOLVED. DY HOMERUNS SHALL BE CONDUCTORS FOR CIRCUITS 7.5' O'N LENGTH, PROVIDE THE NEXT LARGER WIRE E OF CURRENT-CARRYING CONDUCTORS IN A CARCEWAY, NEUTEAL CONDUCTORS IN A CONDUTT INTINING DOWN CONDUIT TURNING DOWN CONDUIT CAPPED FOR FUTURE. CABLE TRAY : TYPE AS NOTED BUSWAY HOMERUN TO PANEL OR DESTINATION NOTED HACHURES INDICATE NUMBER OF CONDUCTORS IN CONDUIT CAPPED FOR FUTURE. ONTEL CONDUCTOR ONTEL CONDUCTOR ONTEL CONDUCTOR ONTEL CONDUCTOR PHASE CONDUCTOR HACHURE - NEUTRAL CONDUCTORS INCOME OND ONTED FOR FUTURE. PHASE CONDUCTOR	WIRING DEVICES, RECEPTACLES - MISC.         1. TYPICAL MOUNTING HEIGHT: +18" A.F.F.         2. SUBSCRIPT LECEND:         2. ABOYE CONTRET: MOUNT of ABOYE BACKSPLASH OR WORK         3. BURACE         3. BURACE         3. CELLIA: MOUNT FLUSH WITHIN CELING TILE OR GYPSUB         3. CELINE: MOUNT FLUSH WITHIN CELING TILE OR GYPSUB         3. WITCHE: PROVIDE ONE OUTLET CONTROLLED BY TOGGLE         3. WITCHE: WITHIN CABINETRY OR CASEWORK         3. WITCHE: CONTRET: WITHIN CABINETRY OR CASEWORK         3. WITCHE: PEED: COORDINATE WITH PURPHYTILURE INSTALLER FOR ALL         COMMENTION DUCATES BURGENCY POWER         3. SINCLE RECEPTACLE OUTLET AS NOTED         3. SINCLE RECEPTACLE OUTLET IS NOTED         3. SINCLE RECEPTACLE OUTLET IS NOTED         3. DUPLEX RECEPTACLE OUTLET IS NOTED         4. DUPLEX RECEPTACLE OUTLET IS NOTED         5. DUPLEX RECEPTACLE OUTLET IS NOTED         6. DUPLEX RECEPTACLE OUTLET IS NOTED         6. DUPLEX RECEPTACLE OUTLET IS NOTED         6. DUPLEX RECEPTACLE OUTLET IS NOTED DESERVICE         7. DUPLEX RECEPTACLE OUTLET IS NOTED DESERVICE         8. DUPLEX RECEPTACLE OUTLET IS NOTED DESERVICE         9. DUPLEX RECEPTACLE OUTLET IS NOTED </td <td><ul> <li>A LOWERCASE SUBSICATION</li> <li>REFER TO SPECIFICATION</li> <li>SWITCH - TYPE AS</li> <li>CEILING OCCUPA</li> <li>CEILING OCCUPA</li> <li>CEILING OCCUPA</li> <li>CEILING OCCUPA</li> <li>WALL MOUNTED TECHNOLOGY TY</li> <li>SO2</li> <li>WALL MOUNTED TECHNOLOGY TY</li> <li>CEILING PHOTOCIDIGITAL TIMER</li> </ul> TELECOMMUNICATION TELECOMMUNICATIONS HEID TO ACCESSIBINAL DE SUP 3. ALL TELECOMMUNICATIONS STUBBED TO ACCESSIBINAL DE SUP 3. ALL TELECOMMUNICATIONS STUBBED TO ACCESSIBINAL DE SUP 4. ALL DATA CABLES SHALL 5. REFER TO LOW VOLTAGE 6. SUBSCRIPT LEGEND: <ul> <li>ALL TELECOMMUNICATIONS HEID TO ACCESSIBINAL DE SUP</li> <li>REFER TO LOW VOLTAGE</li> <li>SUBSCRIPT LEGEND:</li> <li>ABOVE COUNTIONS HEID TO ACCESSIBINS</li> <li>REFER TO LOW VOLTAGE</li> <li>SUBSCRIPT LEGEND:</li> <li>ALL DATA CABLES SHALL</li> <li>REFER TO LOW VOLTAGE</li> <li>SUBSCRIPT LEGEND:</li> <li>ALL TELECOMMUNICATIONS HEID TO ACCESSIBING</li> <li>SUBSCRIPT LEGEND:</li> <li>ALL TELECOMMUNICATIONS HEID TO THE SUBMER TO ACCESSIBIL CEILINGS</li> <li>WARE WIRELESS ACCE</li> <li>WARE WIRELESS ACCE</li> <li>OWNER FURNISY</li> <li>CUANTITY OF OUCONTRACTORY</li> <li>CONTRACTORY</li> <li>CASLASH BETWEEN TWAJO DONTES ABOVE CONTRACTORY</li> <li>ASLASH BETWEEN TWAJO DONTES ABOVE CONTRACTORY</li> <li>ASLASH BETWEEN TO THE BUSHING, PROVID JACKS UNLESS OT</li> <li>EXISTING TELECO</li> </ul></td>	<ul> <li>A LOWERCASE SUBSICATION</li> <li>REFER TO SPECIFICATION</li> <li>SWITCH - TYPE AS</li> <li>CEILING OCCUPA</li> <li>CEILING OCCUPA</li> <li>CEILING OCCUPA</li> <li>CEILING OCCUPA</li> <li>WALL MOUNTED TECHNOLOGY TY</li> <li>SO2</li> <li>WALL MOUNTED TECHNOLOGY TY</li> <li>CEILING PHOTOCIDIGITAL TIMER</li> </ul> TELECOMMUNICATION TELECOMMUNICATIONS HEID TO ACCESSIBINAL DE SUP 3. 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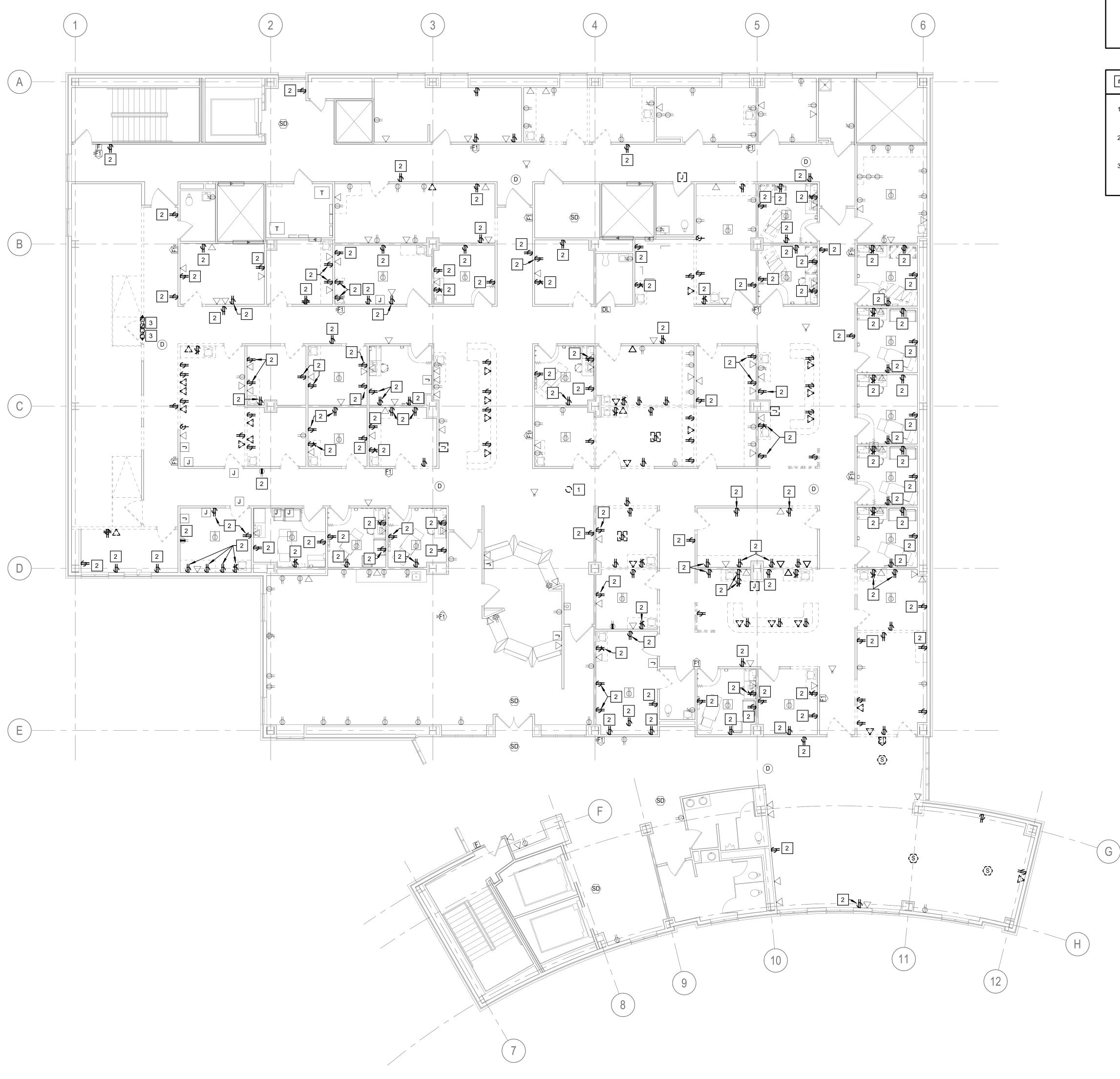
SCHEDULE FOR LUMINAIRE DESCRIPTIONS.
TCHED LUMINAIRE
CATES LUMINAIRE IS SWITCHED DURING NORMAL I LOSS OF POWER, LUMINAIRE REVERTS TO 100% BALLAST, REGARDLESS OF THE ON/OFF STATUS OF THE ROL DEVICE. EXTEND AN UNSWITCHED PORTION OF SERVING AREA, AHEAD OF ALL LIGHTING DEVICE.
LICABLE TO 5. LUMAINAIRE DESIGNATION KEY:
MAL POWER A: LUMINAIRE TYPE
E SAFETY OR A 1a 1: CIRCUIT NUMBER
a: CONTROLLING SWITCH
LIGHTING CONTROL DEVICES
IGHT : 48" A.F.F. TO CENTER U.O.N.
SWITCHES ARE SHOWN ADJACENT TO EACH OTHER, PROVIDE WITH A SINGLE, SEAMLESS FACEPLATE.
ł
ATE REQUIREMENTS FOR LUMINAIRE COMPATIBILITY H ACT SWITCH NTROL MASTER STATION AL SINGLE/PUSH BUTTON STATION
CRIPT INDICATES THE SWITCHLEG THE DEVICE CONTROLS.
ON SECTION 26 09 23 FOR ADDITIONAL INFORMATION.
S INDICATED BY SUBSCRIPT
NCY DETECTOR : ULTRASONIC TYPE.
NCY DETECTOR : DUAL TECHNOLOGY TYPE.
SINGLE SWITCH OCCUPANCY SENSOR [PIR][ULTRASONIC][DUAL
DUAL SWITCH OCCUPANCY SENSOR [PIR][ULTRASONIC][DUAL
ELL
CATIONS
GHT: +18" A.F.F. UNLESS OTHERWISE NOTED. PROVIDE OR 4 H SINGLE GANG PLASTER RING (VERTICAL).
ON CONDUIT SHALL BE A MINIMUM OF 1-1/4" IN DIAMETER LE CORRIDOR CEILING SPACE, UNLESS OTHERWISE NOTED.
ON CABLE SHALL BE OWNER PROVIDED WITH A PLENUM BLES RUN EXPOSED IN STRUCTURE ABOVE OR ABOVE PORTED BY J-HOOKS AT EVERY 5'-0" TO NEAREST CABLE ATED BUSHINGS ON ALL RACEWAYS.
BE CAT 6A, YELLOW IN COLOR, AND TERMINATED BY OWNER.
E RESPONSIBILITY MATRIX ON E500 FOR MORE INFORMATION.
R - MOUNT +6" ABOVE BACKSPLASH OR WORK SURFACE ITED HORIZONTALLY. ED - MOUNT FLUSH WITHIN CEILING TILE OR GYPSUM
OUNT +48" A.F.F. OR 6" ABOVE WORK SURFACE. PROVIDE 5 FOR TELEPHONE. SS POINT DATA OUTLET - INSTALL ONE (1) HED CAT 6A CABLE AND 10-'0" OF SLACK CABLE COILED ABOVE LING FROM TELECOM ROOM. WIRELESS ACCESS POINTS ARE HED, OWNER INSTALLED. VNER FURNISHED CAT 6A CABLES TO BE INSTALLED BY /HEN NOT INDICATED, THREE (3) CABLES SHALL BE ASSUMED.
PRIGINATE FROM TELECOMMUNICATION. O SUBSCRIPTS INDICATES MULTIPLE PARAMETERS (EXAMPLE: UNTER MOUNTING, 3 CABLES.)
TION OUTLET: PROVIDE CONDUIT FOR WIRING ACCESSIBLE CEILING SPACE WITH E 4 POSITION FACEPLATE AND A TOTAL OF (3) ACTIVE THERWISE NOTED.

COMMUNICATION OUTLET TO REMAIN	

NURSE CALL SYSTEMS				
	R TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS AND TONS. WHERE ELEVATIONS DO NOT SPECIFY, MOUNT DEVICES AS NTED.			
DOUBI STUBE	DE RECESSED ROUGH-IN COMPONENTS CONSISTING OF 4" x 4" x 3.5" LE GANG BOX WITH SINGLE GANG MUD RING AND ONE (1) 1" CONDUIT BED TO ABOVE CEILING SPACE WITH BUSHING. PROVIDE J-HOOK SUPPORTS E CEILING BETWEEN DEVICE, CORRIDOR FIRE RATED PATHWAY, AND CABLE			
	R TO LOW VOLTAGE RESPONSIBILITY MATRIX ON SHEET E500 FOR MORE MATION.			
NC	EMERGENCY PULL CORD STATION: +48" A.F.F. AT TOILETS, +78" AT SHOWER STATIONS. CORD LENGTH SHALL EXTEND TO +6" A.F.F.			
NB	EMERGENCY PUSHBUTTON STATION : +48" A.F.F. U.O.N.			
DL	WALL MOUNTED DOME LIGHT: MOUNT ABOVE DOOR JAMB, CENTERED BETWEEN TOP OF DOOR FRAME AND CEILING			
MAS	NURSE CALL MASTER STATION : 3 GANG, NON-GANGABLE, 3.5" DEEP BOX			
40050				
ACCES	S CONTROL SYSTEMS			
<u>RESPONSIBILI</u>	TIES: RACEWAY AND BOXES: CONTRACTOR FURNISHED, INSTALLED WIRING: CONTRACTOR FURNISHED, INSTALLED DEVICES: CONTRACTOR FURNISHED, INSTALLED			
CR	CARD READER : WALL MOUNT AT +48" A.F.F.			
REX	REQUEST TO EXIT, TOUCHLESS ACTUATOR: WALL MOUNT AT +48" A.F.F.			
0	PUSHBUTTON : +48" A.F.F. OR AS NOTED			
FIRE AL	ARM SYSTEMS			
	TO SPECIFICATIONS SECTION 283111 FOR ADDITIONAL INFORMATION INING TO THE FIRE ALARM SYSTEM.			
	ING LINE CIRCUITS SHALL BE ROUTED IN A CLASS B CONFIGURATION.			
	CATION APPLIANCE CIRCUITS SHALL BE ROUTED IN A CLASS B GURATION.			
4. FIRE AL WHERE	ARM CIRCUITS SHALL BE ROUTED IN CONDUIT WHERE INACCESSIBLE. ROUTED ABOVE ACCESSIBLE CEILINGS, FIRE ALARM CIRCUITS SHALL ST OF PLENUM RATED CABLE SUPPORTED EVERY 4'-0" BETWEEN DEVICES.			
5. FOR VIS	SUAL DEVICES, THE '#' WITHIN THE SYMBOL CORRESPONDS TO THE			
6. WALL M	LA RATING OF THE DEVICE: 1=15cd, 3=30cd, 5=75cd, 7=110cd. IOUNTED NOTIFICATION DEVICES SHALL BE MOUNTED WITH THE TOP OF EVICE +90" A.F.F. OR 6" BELOW THE CEILING, WHICHEVER IS LOWER.			
F	FIRE ALARM MANUAL STATION: +48" A.F.F. TO CENTER LINE			
 <b>⊡</b> ≉	WALL MOUNTED SPEAKER			
F#d	WALL MOUNTED SPEAKER WITH STROBE			
	WALL MOUNTED STROBE			
	CEILING MOUNTED SPEAKER WITH STROBE			
	CEILING MOUNTED WITH STROBE			
	CEILING MOUNTED SPEAKER			
(HF)	HEAT DETECTOR : FIXED TEMPERATURE			
(III) (HR)	HEAT DETECTOR : RATE OF RISE			
(SD)	SMOKE DETECTOR : PHOTOELECTRIC TYPE.			
	DUCT MOUNTED SMOKE DETECTOR : PHOTOELECTRIC TYPE			
FW	SPRINKLER SYSTEM WATER FLOW SWITCH			
FT	SPRINKLER SYSTEM TAMPER (SUPERVISORY) SWITCH			
FV	SPRINKLER SYSTEM ELECTRICAL SOLENOID VALVE			
FP	EXTINGUISHING SYSTEM PRESSURE SWITCH			
	SINGLE STATION SMOKE DETECTOR WITH SOUNDER BASE			
FK	CONTACT IN KITCHEN EXTINGUISHING SYSTEM PANEL FOR CONNECTION INTO FIRE ALARM SYSTEM			
¥	END OF LINE RESISTOR			
FR	ADDRESSABLE CONTROL RELAY			
FM	ADDRESSABLE MONITOR MODULE			
SD	SMOKE DAMPER			



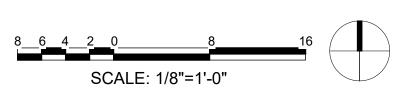
ELECTRICAL THIRD FLOOR DEMOLITION PLAN 1/8" = 1'-0"





- A. REFER TO SHEET E000 FOR GENERAL DEMOLITION NOTES.
- B. REMOVE AND STORE ALL FIRE ALARM DEVICES, WIRELESS ACCESS POINTS, 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 AS REQUIRED TO COMPLETE ABOVE CEILING WORK FOR ALL TRADES. UPON COMPLETETION 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 EXISTING EXIT SIGN ABOVE CEILING AT THIS LOCATION. REMOVE ALL ASSOCIATED WIRING, RACEWAY, AND SUPPORTS.
2.	DISCONNECT AND REMOVE RECEPTACLE DEVICE AND PRESERVE EXISTING BOX AND WIRING FOR REUSE. SEE NEW WORK PLAN FOR ADDITIONAL INFORMATION.
3.	EXISTING SMOKE DAMPER TO BE DEMOLISHED. DISCONNECT AND REMOVE ASSOCIATED WIRING, RACEWAY, AND SUPPORTS.

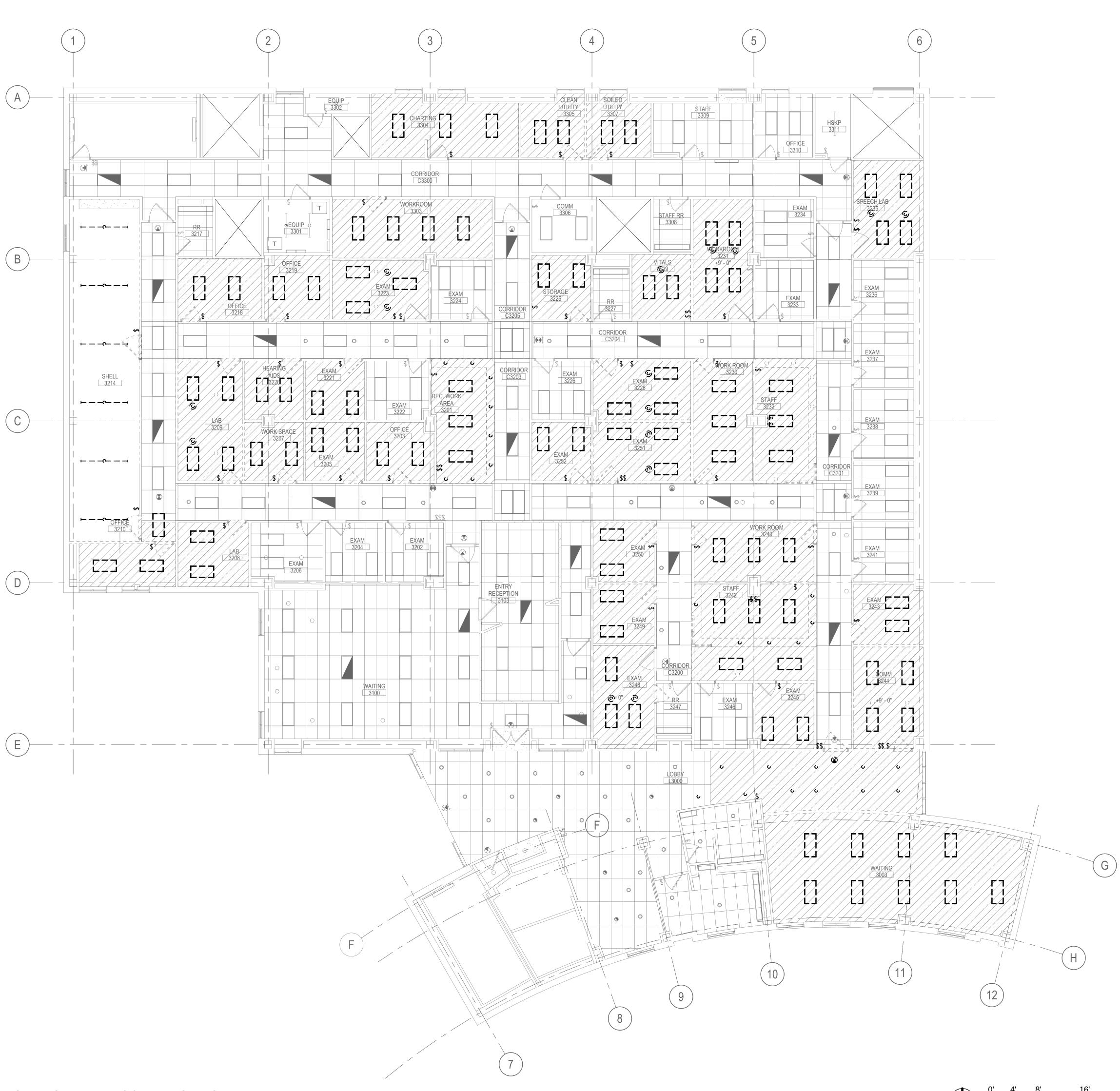




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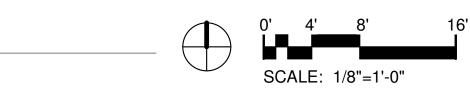
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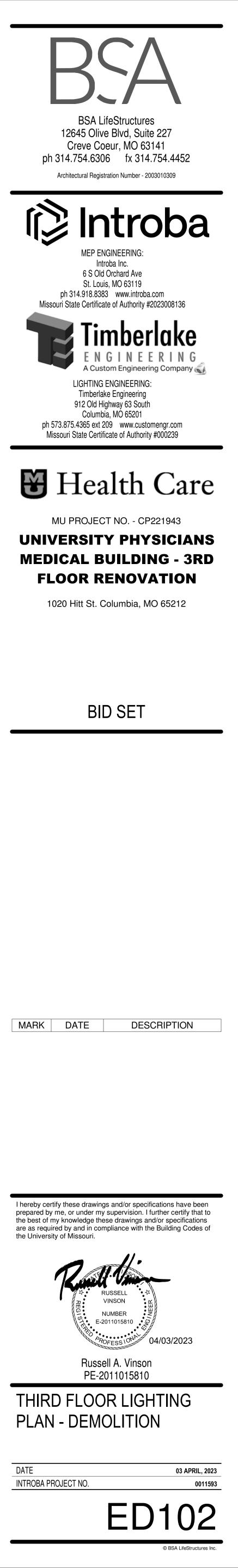
SIGNED Designer AAWN Author 2 LIGHTING THIRD FLOOR DEMOLITION PLAN 1/8" = 1'-0"





- 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.

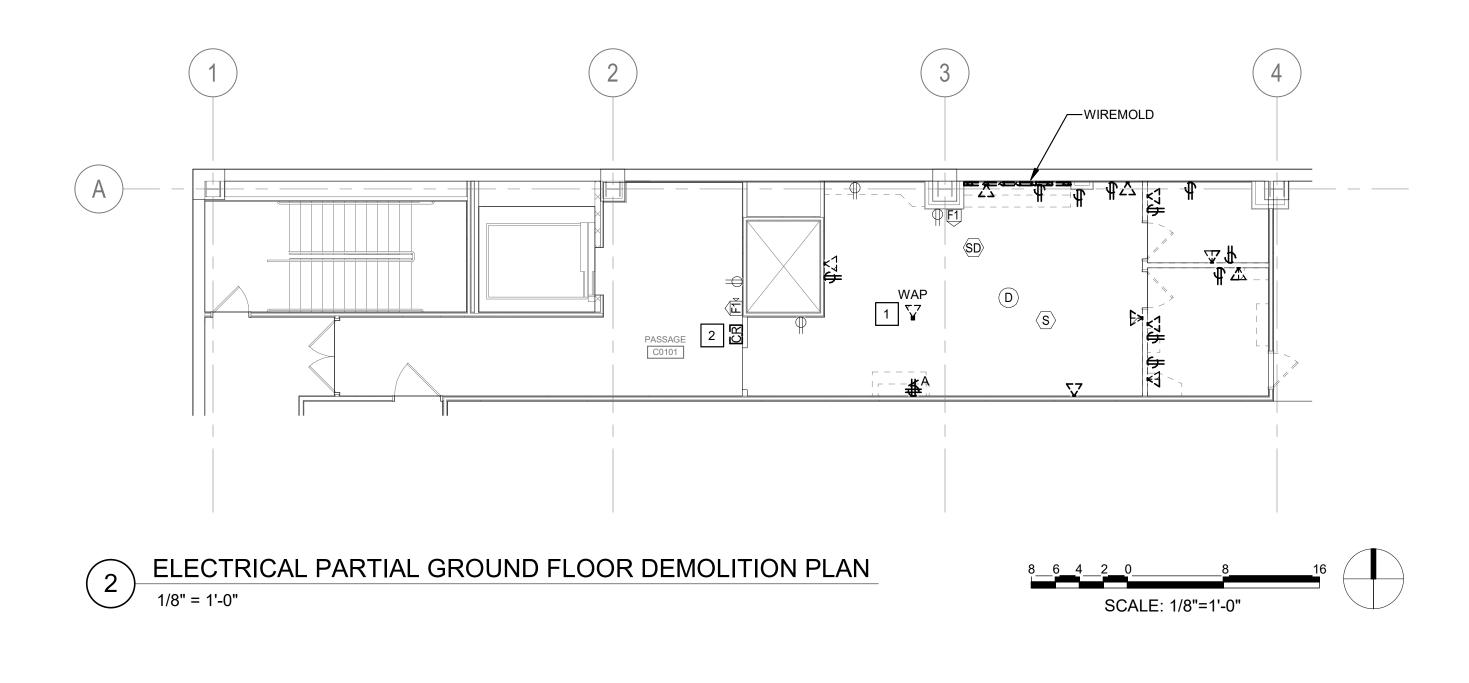


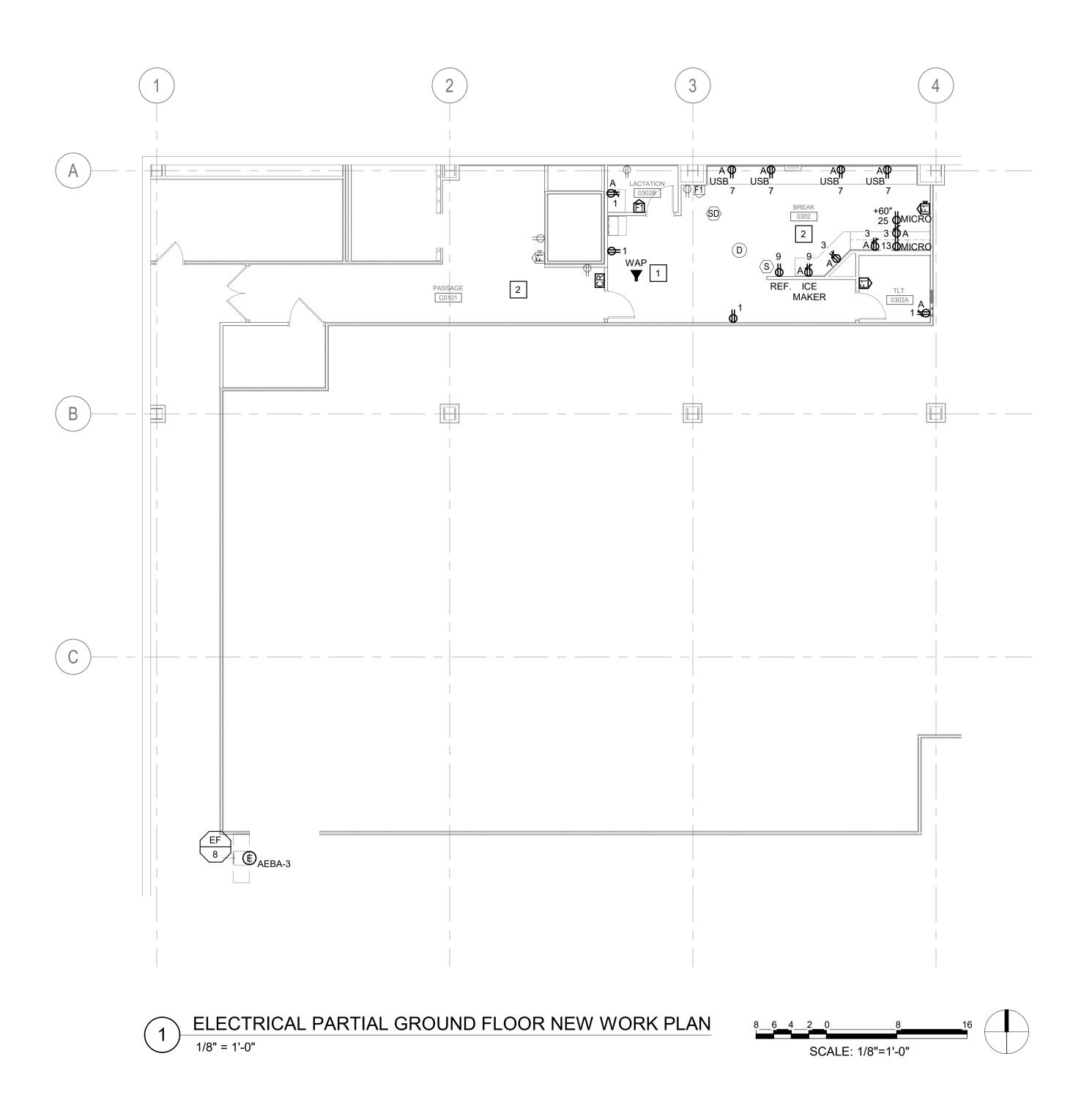


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ESIGNED Designer RAWN Author JVEL Approver





#### GENERAL NOTES

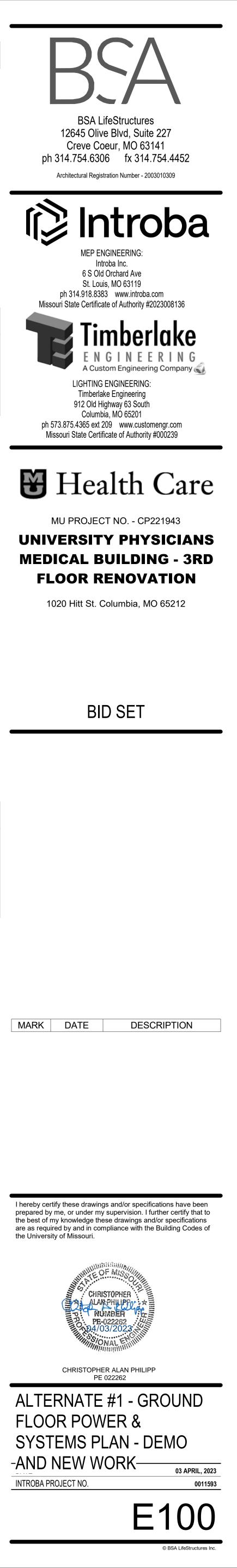
- A. REFER TO SHEET E000 FOR ELECTRICAL GENERAL NOTES.
- B. REFER TO ARCHITECTURAL SHEET G200 FOR IDENTIFICATION OF PROJECT SCOPE OF WORK AREAS.
   C. CIRCUIT NUMBERS ARE FOR REFERENCE AND ARE SHOWN FOR LOADING
- C. CIRCUIT NUMBERS ARE FOR REFERENCE AND ARE SHOWN FOR LOADING PURPOSES ONLY. CONTRACTOR 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 (6) RECEPTACLES ON A SINGLE CIRCUIT. DEVICES SHOWN ON DEDICATED CIRCUITS TO REMAIN ON DEDICATED CIRCUITS.
- D. ALL ELECTRICAL CIRCUITS SHOWN ARE CONNECTED TO PANEL NBA UNLESS OTHERWISE NOTED.
- E. ALL FIRE ALARM PULL STATIONS IN AREA OF CONSTRUCTION TO REMAIN IN SERVICE AND SHALL BE BAGGED DAILY DURING WORKING HOURS AND UN-BAGGED AT THE END OF THE DAY AND WHEN CONTRACTOR IS NOT ON SITE.

#### **# DEMOLITION KEYED NOTES**

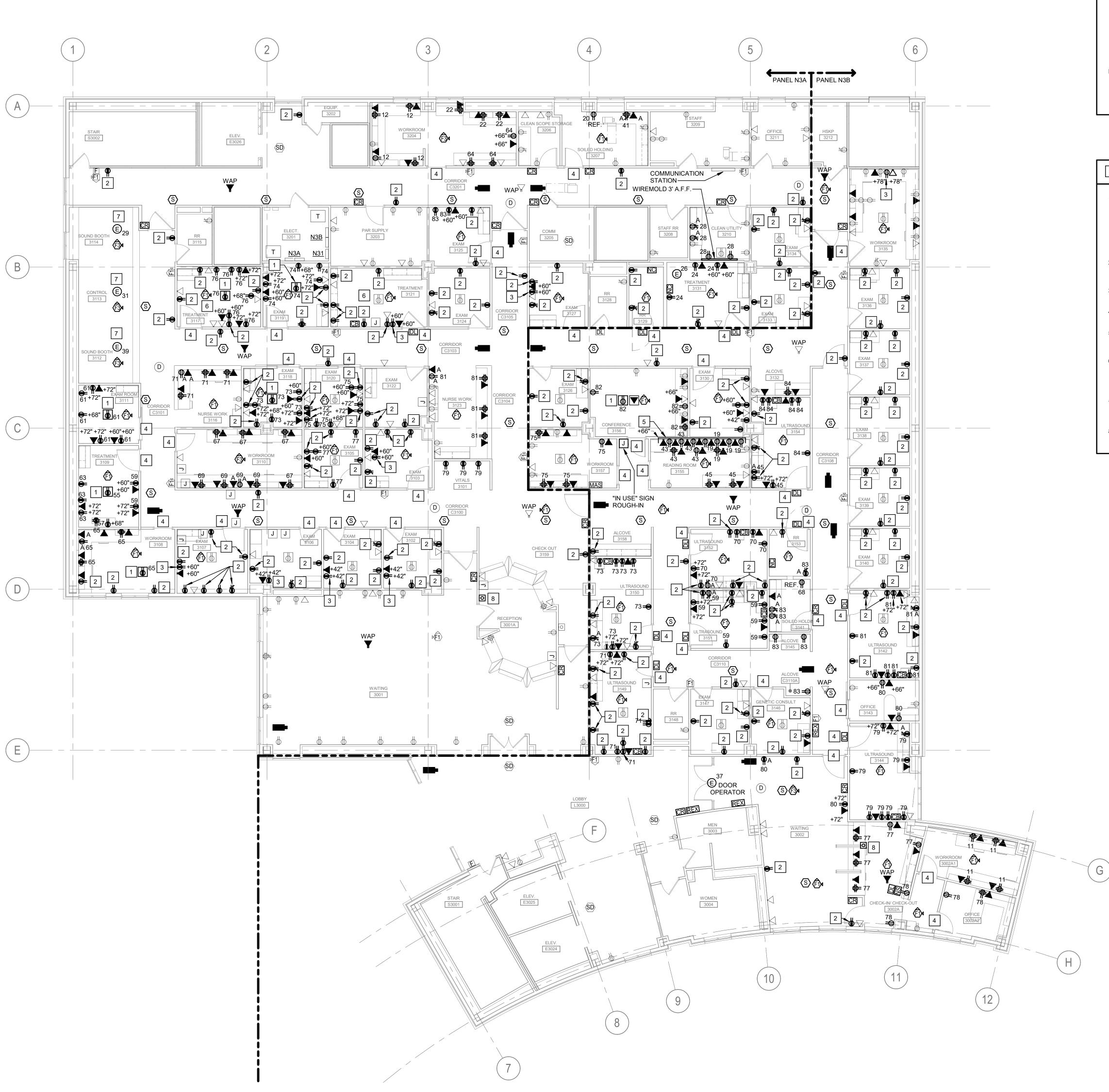
- 1. DISCONNECT WIRELESS ACCESS POINT. PROTECT AND PRESERVE WIRELESS ACCESS POINT AND ASSOCIATED DATA CABLE FOR RECONNECTION IN NEW WORK. SEE NEW WORK PLANS ON THIS SHEET.
- CONTACT MU SECURITY TO REMOVE PRIOR TO DEMOLITION. PRESERVE CABLE TO RE-USE FOR INSTALLATION OF NEW CARD READER. SEE NEW WORK PLAN FOR ADDITIONAL INFORMATION.



- 1. RECONNECT RELOCATED WIRELESS ACCESS POINT TO EXISTING DATA CABLING MADE AVAILABLE BY DEMOLITION.
- 2. ABOVE THE PROJECT WORK AREA SUPPORT EXISTING LOW VOLTAGE AND POWER CONDUITS/CABLES THAT ARE NOT CURRENTLY SUPPORTED PROPERLY.
- 3. RECONNECT CARD



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



# GENERAL NOTES

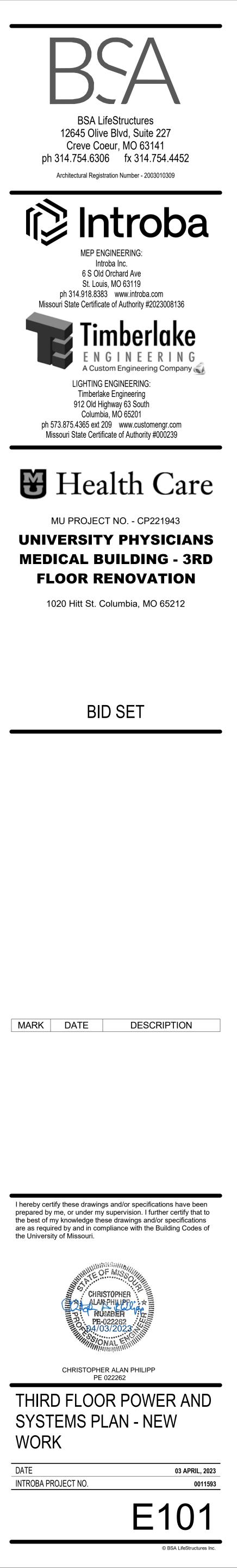
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- D. ALL FIRE ALARM PULL STATIONS IN AREA OF CONSTRUCTION TO REMAIN IN SERVICE AND SHALL BE BAGGED DAILY DURING WORKING HOURS AND UN-BAGGED AT THE END OF THE DAY AND WHEN CONTRACTOR IS NOT ON SITE.

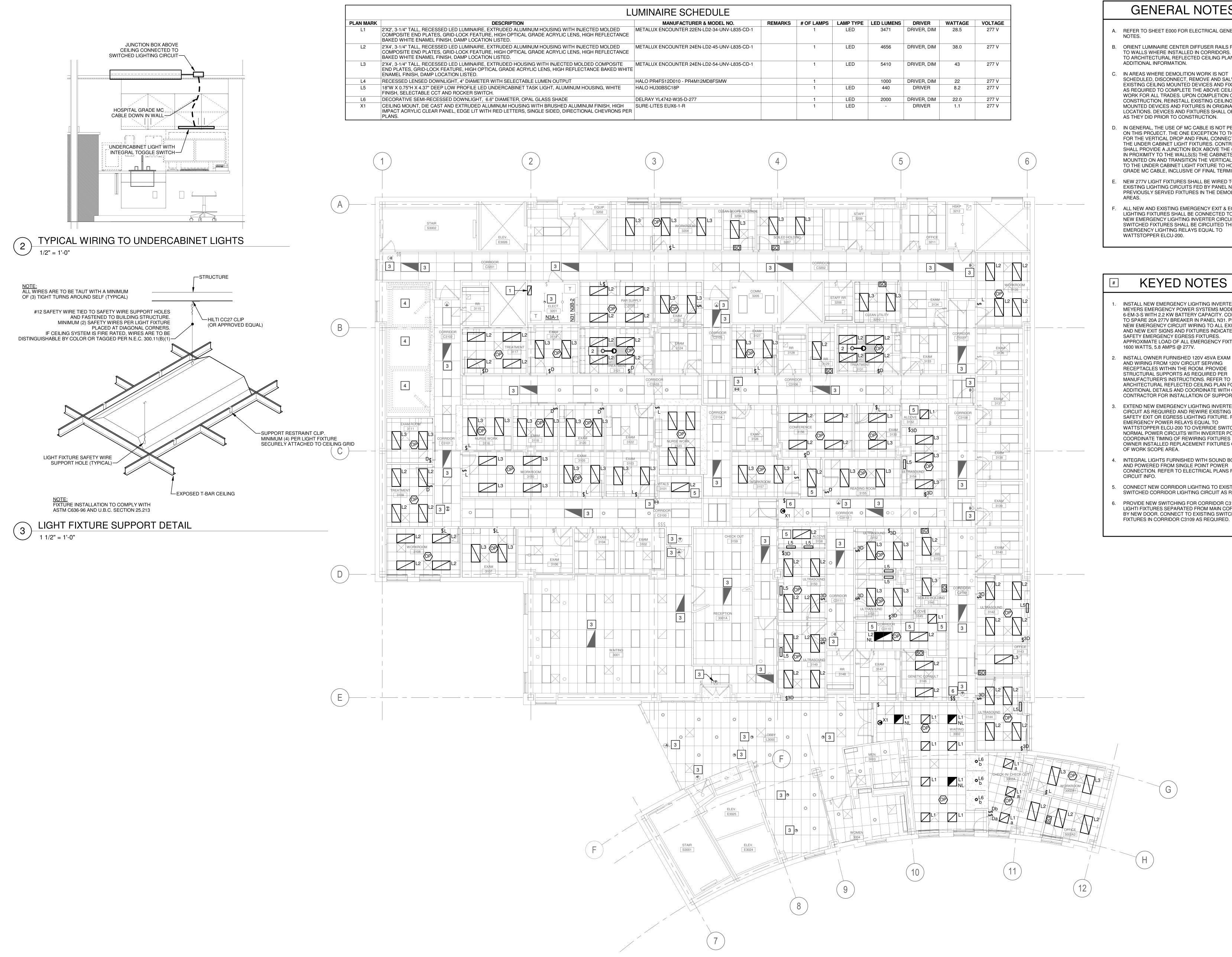
# **KEYED NOTES** # CORE DRILL FLOOR AND PROVIDE 6" POKE THRU DEVICE WITH (1) GANG OF POWER (DUPLEX RECEPTACLE) AND FLUSH COVER PLATE. WIREMOLD EVOLUTION SERIES 6 OR APPROVED EQUAL. FIELD VERIFY EXISTING STRUCTURE AND VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO CORE DRILL. POUTE (2)#12 (1)#12C IN 2/4"C DOWNLINGLE TO 2PD ROUTE (2)#12, (1)#12G IN 3/4"C. DOWN WALL TO 3RD FLOOR CEILING SPACE AND OVER TO POKE THRU.

- PROVIDE NEW RECEPTACLE AS INDICATED AND CONNECT TO EXISTING WIRING. PROVIDE NEW FACEPLATE FOR DEVICE.
- 3. CONNECT NEW RECEPTACLE TO SAME CIRCUIT AS ADJACENT RECEPTACLE.
- 4. PROVIDE EZ PATH SERIES 22 FIRE RATED PATHWAY ABOVE DOOR FOR LOW VOLTAGE CABLES.
- 5. PROVIDE WIREMOLD WIREWAY FOR MONITOR HDMI CABLES AND POWER. COORDINATE LOCATION WITH MONITOR INSTALLATION.
- 6. CONTRACTOR TO VERIFY WHAT CIRCUIT EACH RECEPTACLE IS CONNECTED TO AND PROVIDE ADDITIONAL CIRCUITS AS REQUIRED TO ASSURE THERE ARE AT LEAST 4 SEPARATE CIRCUIT IN THIS ROOM.
- PROVIDE POWER AND FINAL CONNECTION TO SOUND/CONTROL BOOTHS PER MANUFACTURERS WRITTEN INSTRUCTIONS.

SCALE: 1/8"=1'-0

8. WIRELESS REMOTE RELEASE PROVIDED BY SECURITY VENDOR.







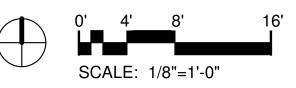


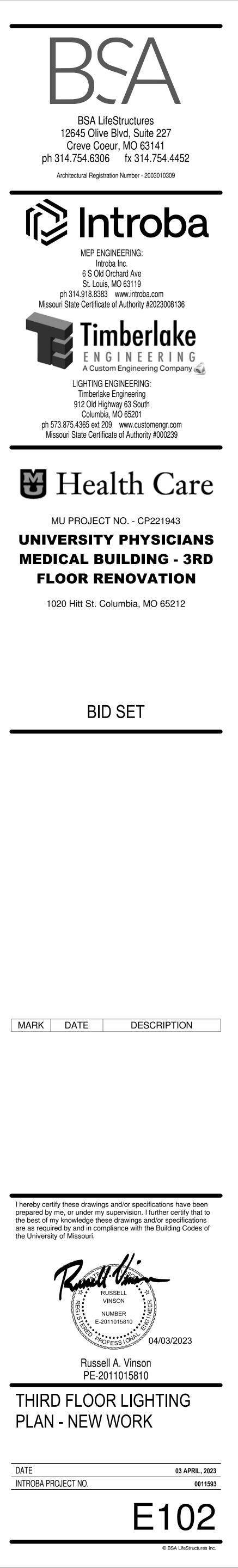
MP TYPE	LED LUMENS	DRIVER	WATTAGE	VOLTAGE
LED	3471	DRIVER, DIM	28.5	277 V
LED	4656	DRIVER, DIM	38.0	277 V
LED	5410	DRIVER, DIM	43	277 V
	1000	DRIVER, DIM	22	277 V
LED	440	DRIVER	8.2	277 V
LED	2000	DRIVER, DIM	22.0	277 V
LED	-	DRIVER	1.1	277 V

- A. REFER TO SHEET E000 FOR ELECTRICAL GENERAL
- B. 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.
- D. 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 WALLS(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 N31 THAT PREVIOUSLY SERVED FIXTURES IN THE DEMOLISHED
- 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.

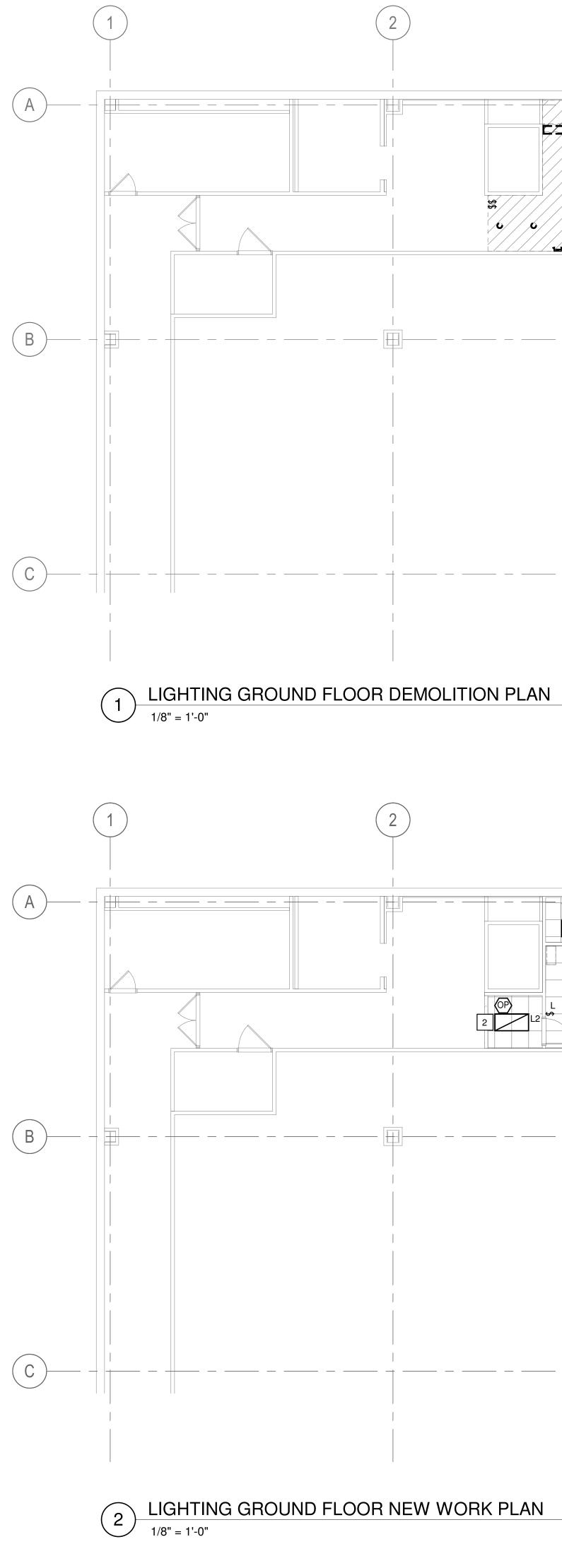
#### **KEYED NOTES** INSTALL NEW EMERGENCY LIGHTING INVERTER, MEYERS EMERGENCY POWER SYSTEMS MODEL 6-EM-3-S WITH 2.2 KW BATTERY CAPACITY. CONNECT TO SPARE 20A 277V BREAKER IN PANEL N31. PROVIDE NEW EMERGENCY CIRCUIT WIRING TO ALL EXISTING AND NEW EXIT SIGNS AND FIXTURES INDICATED AS LIFE SAFETY EMERGENCY EGRESS FIXTURES. APPROXIMATE LOAD OF ALL EMERGENCY FIXTURES IS 1600 WATTS, 5.8 AMPS @ 277V. INSTALL OWNER FURNISHED 120V 45VA EXAM LIGHT AND WIRING FROM 120V CIRCUIT SERVING RECEPTACLES WITHIN THE ROOM. PROVIDE STRUCTURAL SUPPORTS AS REQUIRED PER MANUFACTURER'S INSTRUCTIONS. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR ADDITIONAL DETAILS AND COORDINATE WITH GENERAL CONTRACTOR FOR INSTALLATION OF SUPPORT. EXTEND 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. INTEGRAL LIGHTS FURNISHED WITH SOUND BOOTHS AND POWERED FROM SINGLE POINT POWER CONNECTION. REFER TO ELECTRICAL PLANS FOR CIRCUIT INFO. CONNECT NEW CORRIDOR LIGHTING TO EXISTING SWITCHED CORRIDOR LIGHTING CIRCUIT AS REQUIRED. PROVIDE NEW SWITCHING FOR CORRIDOR C3112 LIGHTI FIXTURES SEPARATED FROM MAIN CORRIDOR BY NEW DOOR. CONNECT TO EXISTING SWITCHED

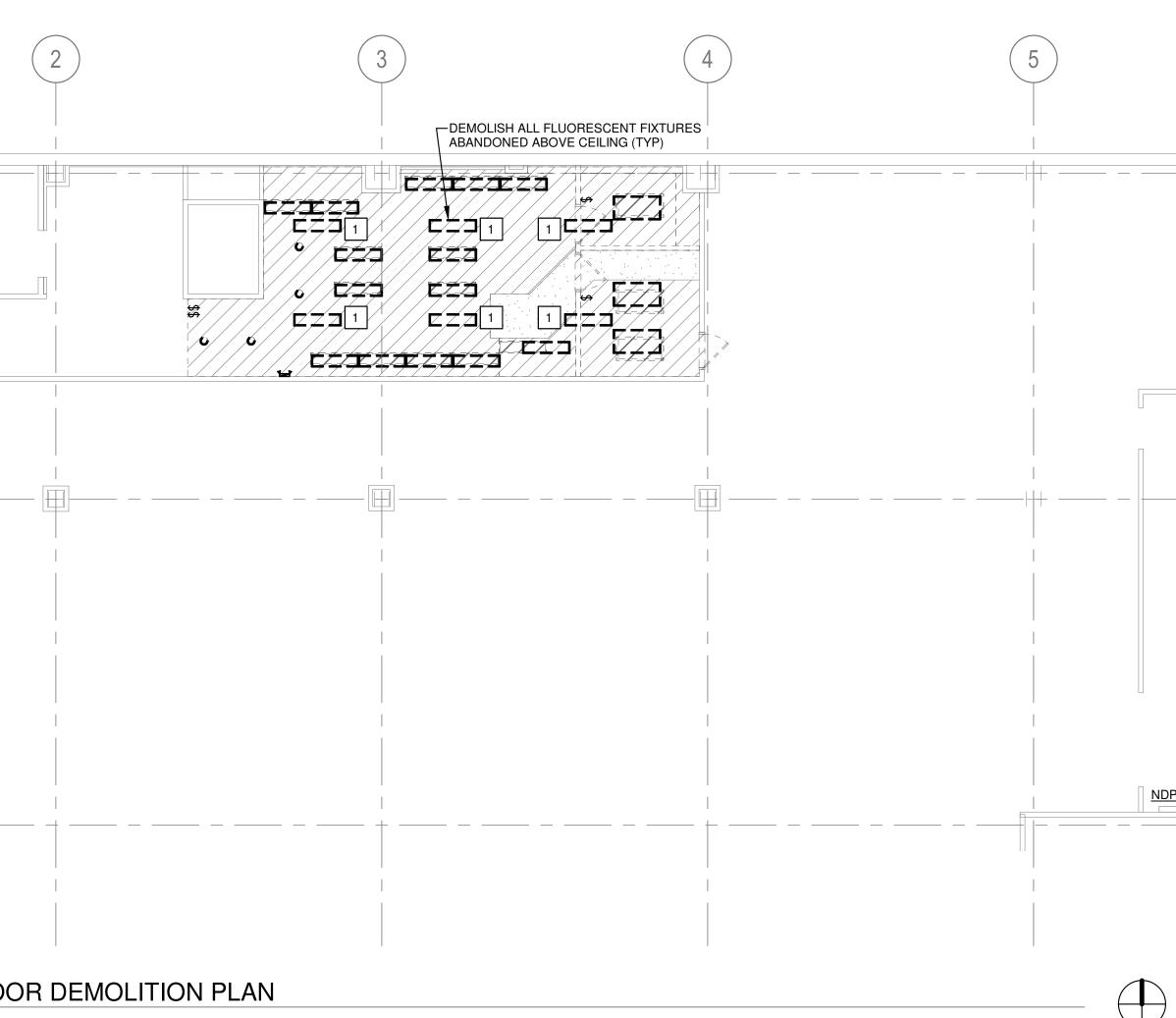
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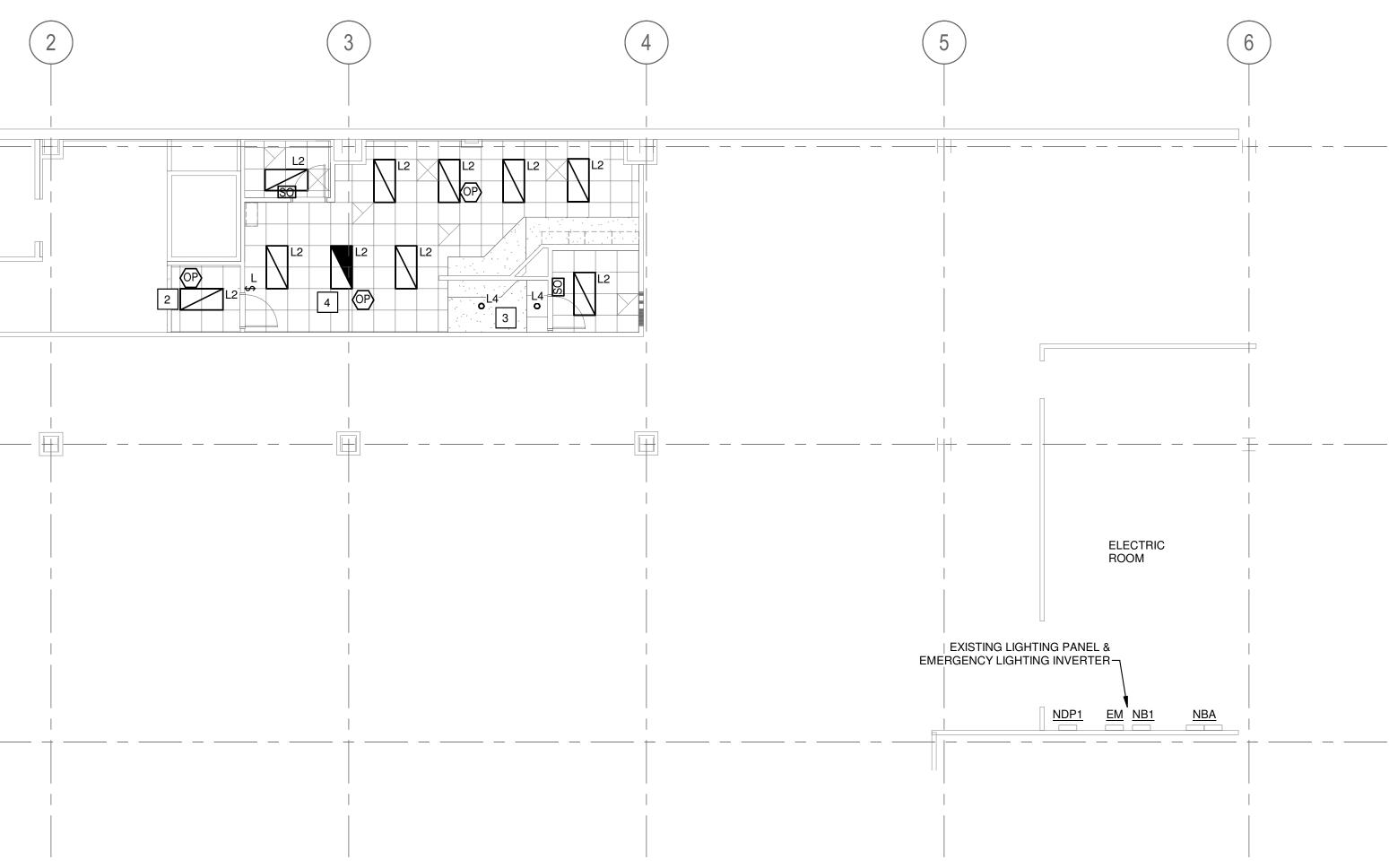


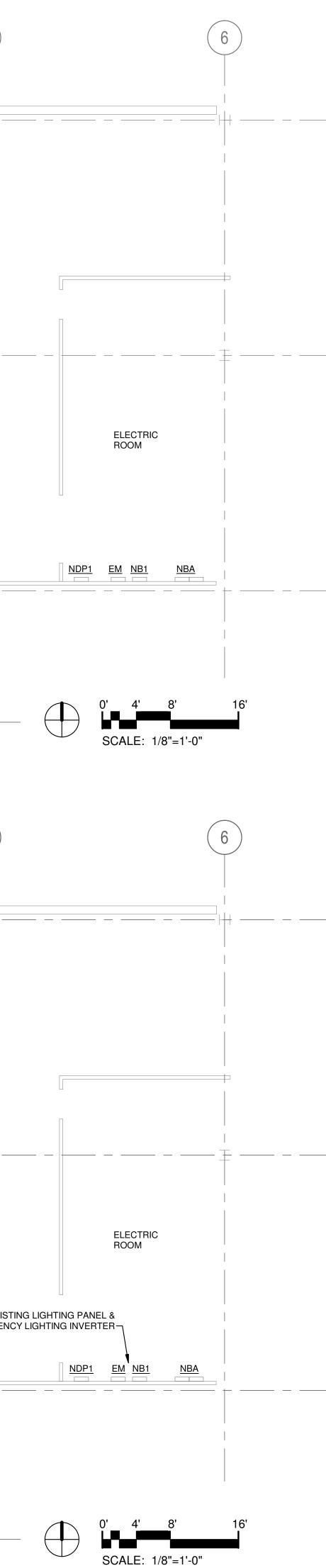


3/29/2023 BIM 360: DESIGNED DRAWN









## **DEMOLITION NOTES**

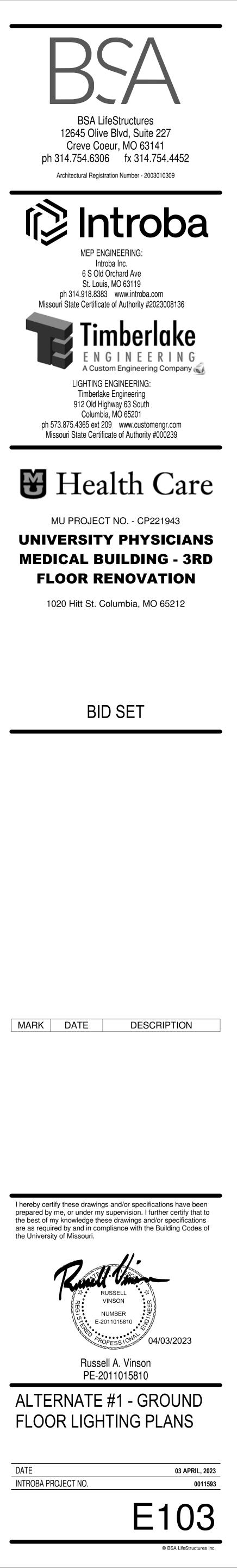
- REFER TO SHEET E000 FOR ELECTRICAL GENERAL NOTES.
- B. DEMOLISH EXISTING LIGHT FIXTURES AND LIGHTING CONTROL DEVICES SHOWN IN BOLD, INCLUDING ABANDONED FIXTURES HIDDEN ABOVE THE CEILING. REMOVE EXISTING WIRING BACK TO NEAREST JUNCTION BOX AND PREPARE FOR NEW FIXTURES CONNECTED TO THE EXISTING CIRCUITS.
- 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.
- . RE-SUPPORT ALL EXISTING TO REMAIN ELECTRICAL SYSTEMS (CONDUIT, WIRE, CABLE, ETC.) CURRENTLY SUPPORTED BY WALLS SCHEDULES TO BE DEMOLISHED.
- LEGALLY DISPOSE OF LIGHTING BALLASTS AND LAMPS CONTAINING MERCURY. COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS.

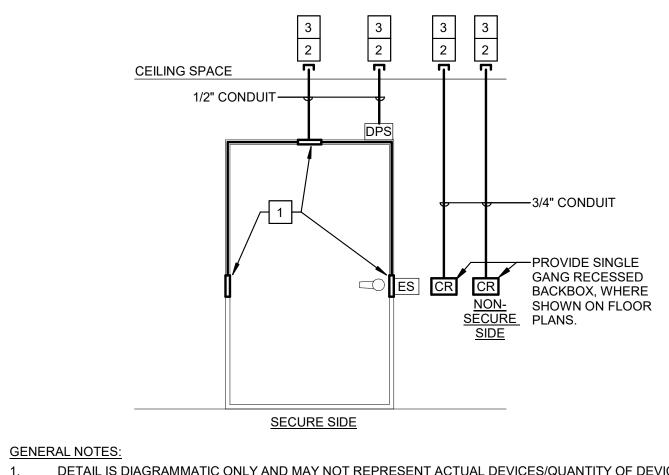
#### NEW WORK NOTES A. REFER TO SHEET E000 FOR ELECTRICAL GENERAL NOTES. B. ORIENT LUMINAIRE CENTER DIFFUSER RAILS PARALLEL TO WALLS WHERE INSTALLED IN CORRIDORS. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR ADDITIONAL INFORMATION. . IN AREAS WHERE DEMOLITION WORK IS NOT SCHEDULED, DISCONNECT, REMOVE 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 WALLS(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 NB1 THAT PREVIOUSLY SERVED FIXTURES IN THE DEMOLISHED

#### **KEYED NOTES**

AREAS.

- DEMOLISH ALL ABANDONED FLOURESCENT LIGHT FIXTURES LOCATED ABOVE GRID CEILING. VERIFY EXACT LOCATION AND QUANTITY.
- 2. CONNECT NEW CORRIDOR LIGHTING TO EXISTING CORRIDOR LIGHTING CIRCUIT AS REQUIRED.
- 3. COORDINATE FIXTURES IN LOWERED SOFFIT WITH EXISTING DUCTWORK AND NEW CEILING.
- CIRCUIT EMERGENCY LIGHTING FIXTURE TO EXISTING EMERGENCY LIGHTING CIRCUIT NB1-10. PROVIDE NEW WIRING FROM PANEL NB1 IN ELECTRICAL ROOM AS REQUIRED. PROVIDE EMERGENCY POWER RELAY EQUAL TO WATTSTOPPER ELCU-200 TO OVERRIDE SWITCHED NORMAL POWER CIRCUIT WITH INVERTER POWER.





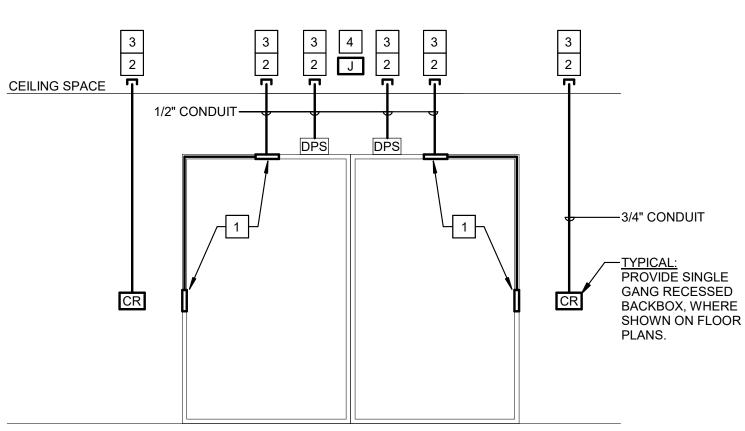
- DETAIL IS DIAGRAMMATIC ONLY AND MAY NOT REPRESENT ACTUAL DEVICES/QUANTITY OF DEVICES REQUIRED. COORDINATE ALL REQUIREMENTS WITH FINAL DOOR HARDWARE PROVIDED AND AS CALLED OUT ON ARCHITECTURAL DRAWINGS. COORDINATE WITH SECURITY SYSTEM INSTALLER FOR EXACT ROUGH-IN LOCATIONS AND REQUIREMENTS.
- COORDINATE FINAL REQUIREMENTS WITH ACCESS CONTROL VENDOR. PROVIDE EACH ACCESS CONTROL DOOR WITH ONE (1) 18/6 UNSHIELDED CABLE AND ONE (1) 22/6 SHIELDED CABLE.

KEYED NOTES:

- PROVIDE JUNCTION BOXES FLUSH WITHIN THE DOOR FRAME WITH 1/2" FLEXIBLE CONDUIT BETWEEN BOXES AS REQUIRED FOR ROUTING OF ACCESS CONTROL WIRING INSIDE DOOR FRAME. STUB CONDUIT 6" ABOVE ACCESSIBLE CEILING.
- LOW VOLTAGE ACCESS CONTROL SYSTEM CABLES: ROUTE TO DOOR ACCESS CONTROL PANEL IN LOCAL 3. TELECOMMUNICATION ROOM. ACCESS CONTROL ROUGH-IN DIAGRAM

**5** 

SCALE: NO SCALE



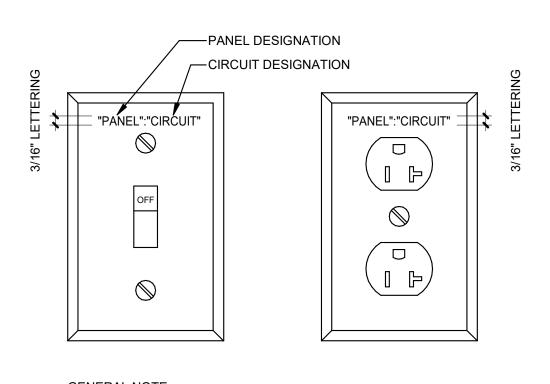
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- COORDINATE FINAL REQUIREMENTS WITH ACCESS CONTROL VENDOR. PROVIDE EACH ACCESS CONTROL DOOR WITH ONE (1) 18/6 UNSHIELDED CABLE AND ONE (1) 22/6 SHIELDED CABLE.

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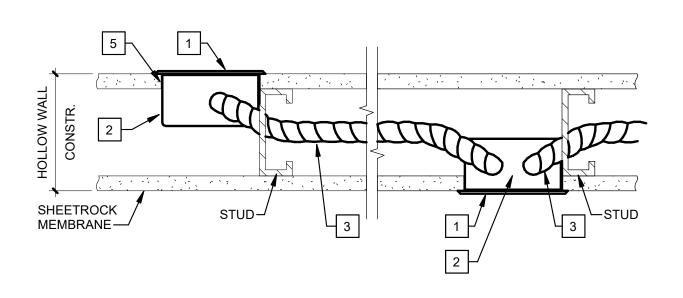
- PROVIDE JUNCTION BOXES FLUSH WITHIN THE DOOR FRAME WITH 1/2" FLEXIBLE CONDUIT BETWEEN BOXES AS REQUIRED FOR ROUTING OF ACCESS CONTROL WIRING INSIDE DOOR FRAME.
- STUB CONDUIT 6" ABOVE ACCESSIBLE CEILING. 2.
- LOW VOLTAGE ACCESS CONTROL SYSTEM CABLES: ROUTE TO DOOR ACCESS CONTROL PANEL IN LOCAL TELECOMMUNICATION ROOM.
- PROVIDE 4" SQUARE JUNCTION BOX FOR CONNECTIONS TO DOOR OPERATOR. REFER TO FLOOR PLANS FOR POWER CIRCUITING REQUIREMENTS.

ACCESS CONTROL ROUGH-IN DIAGRAM - DOUBLE DOOR OPERATOR 6 SCALE: NO SCALE

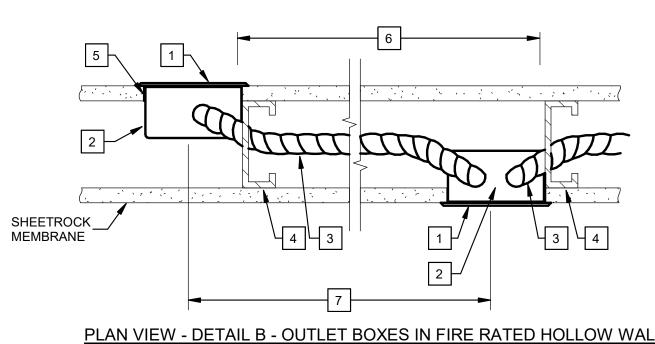


GENERAL NOTE: 1 TYPICAL OF ALL SWITCH AND RECEPTACLE DEVICE PLATES. 2 REFER TO SPECIFICATION SECTION 260553 IDENTIFICATION FOR ELECTRICAL SYSTEMS FOR ADDITIONAL REQUIREMENTS.

#### ELECTRICAL DEVICE PLATE LABELING 2 NO SCALE



PLAN VIEW - DETAIL A - OUTLET BOXES IN HOLLOW WALL



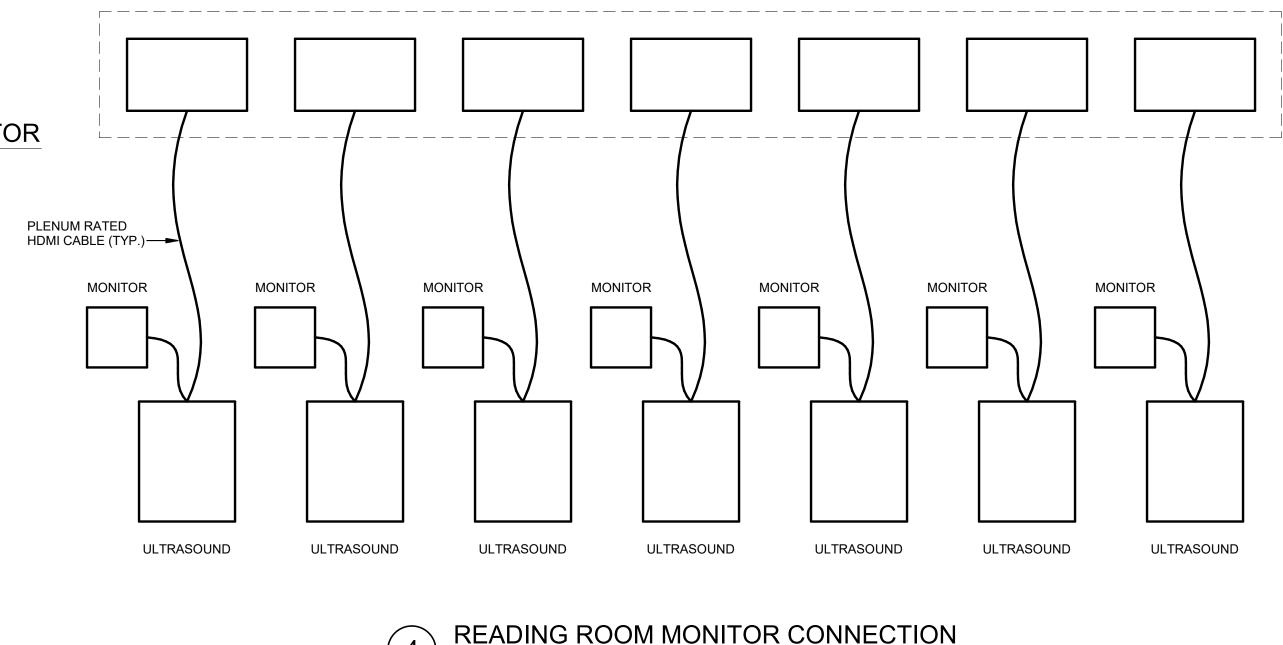
GENERAL NOTES: COORDINATE LOCATIONS OF FIRE RATE WALLS AND THICKNESS OF ALL WALLS WITH G.C. AND ARCHITECTURAL DRAWINGS.

2 DETAIL A IS APPLICABLE TO ALL HOLLOW WALLS ON THIS PROJECT. DETAIL B ISAPPLICABLE TO ALL FIRE RATED HOLLOW WALLS ON THIS PROJECT.

KEYED NOTES: 1 PLATE OR COVER ON FOR OUTLET, BOX OR WIREWAY.

- 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.
- METAL STUD (NO HOLES). IF STUDS HAVE HOLES, BOXES MAY BE LESS THAN 24" APART AND FIRE RATED PUTTY PADS USED ON BOTH BOXES.
- 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.

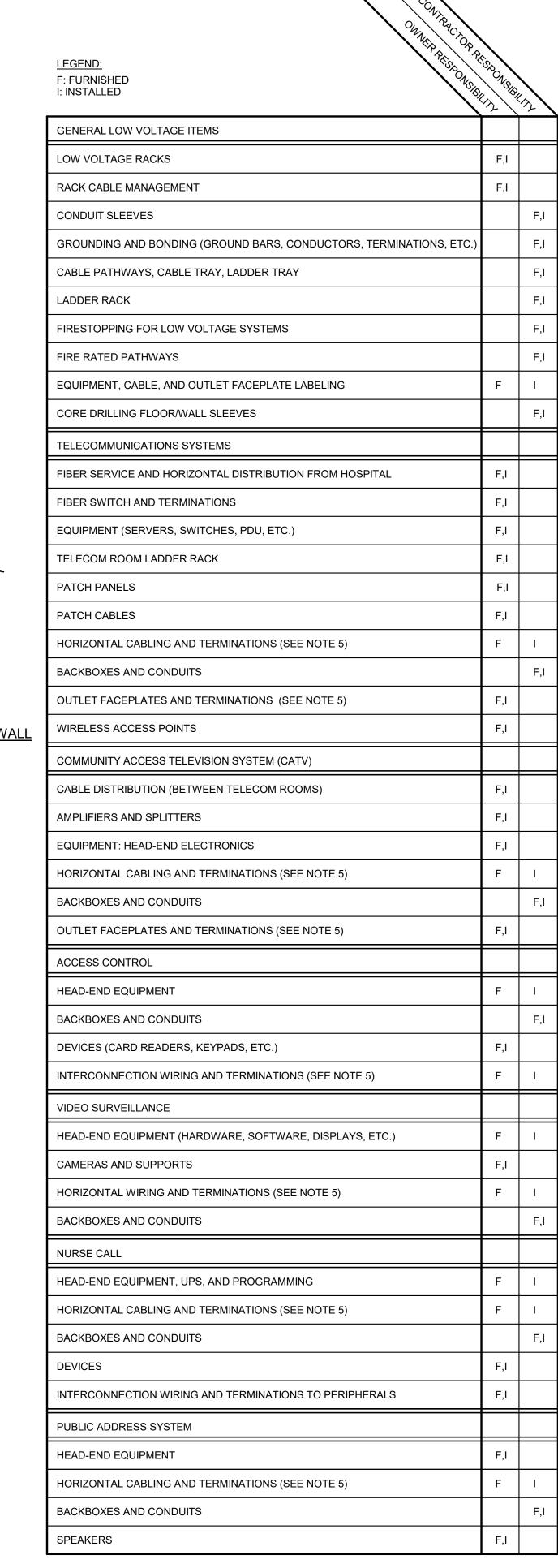




4

NO SCALE

#### READING ROOM MONITORS



NOTES:

THE PARTY RESPONSIBLE FOR INSTALLING THE RESPECTIVE EQUIPMENT SHALL ALSO BE RESPONSIBLE FOR 1 CONNECTING, PROGRAMMING AND TESTING THE SYSTEM, UNLESS OTHERWISE SPECIFICALLY NOTED. CONTRACTOR TO COORDINATED TESTING WITH ALL THIRD PARTY VENDORS.

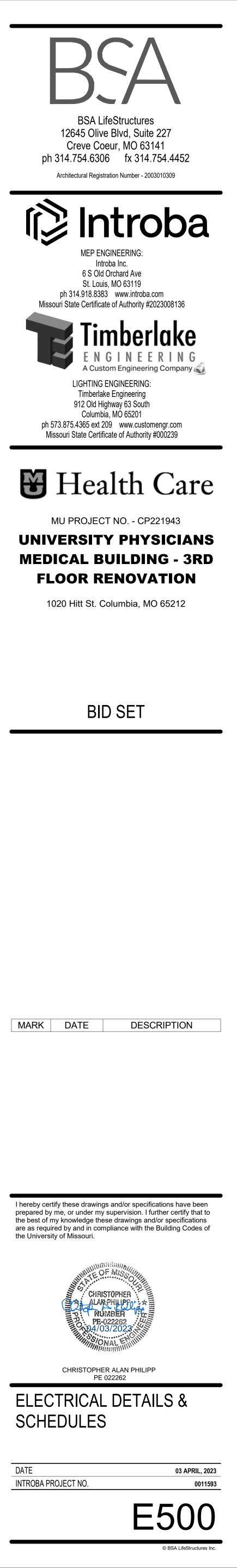
ITEMS INDICATED AS FURNISHED AND/OR INSTALLED BY THE OWNER MAY BE PROVIDED BY A THIRD-PARTY 2. VENDOR. CONTRACTOR IS REQUIRED TO COORDINATE ALL INSTALLATIONS.

3. ALL LINE VOLTAGE RECEPTACLE AND HARD-WIRED CONNECTIONS WILL BE PROVIDED BY THE CONTRACTOR.

FIRESTOPPING TO BE PROVIDED BY A SINGLE ENTITY. REFER TO DIVISION 07 SPECIFICATIONS FOR 4 REQUIREMENTS.

OWNER TO SUPPLY CABLES, CONTRACTOR TO INSTALL CABLES FROM HEAD-END EQUIPMENT TO DEVICES AND 5. OWNER TO TERMINATE CABLES AT HEAD-END EQUIPMENT AND DEVICES.

#### LOW VOLTAGE RESPONSIBILITY MATRIX NO SCALE



	Branch Panel: N3A Location: ELECT. 3201 Supply From: Mounting: Surface Enclosure: Type 1					Volts: Phases: Wires:		3 Wye		A.I.C. Rating: Mains Type: Mains Rating: 225 A MCB Rating: 225 A			
скт	Circuit Description	Trip	Poles		Δ.		В		c	Poles	Trip	Circuit Description	СКТ
1	EXISTING RECEPT. RECORDS 3304	20 A	1	0 VA	0 VA					1		EXISTING RECEPT. WORK 3303	2
3	EXISTING RECEPT. ELEC 3301	20 A	1			0 VA	0 VA			1	20 A	EXISTING RECEPT. WORK 3303	4
5	EXISTING RECEPT. TOILET CORR. 3217	20 A	1					0 VA	0 VA	1	20 A	EXISTING RECEPT. EXAM 3227	6
7	EXISTING RECEPT. EVOKE 3219	20 A	1	0 VA	0 VA					1	20 A	EXISTING RECEPT. MICRO 3223	8
9	EXISTING RECEPT. 3219	20 A	1			0 VA	0 VA			1	20 A	EXISTING RECEPT. MICRO 3223	10
11	EXISTING RECEPT. NURSE 3201	20 A	1					0 VA	1260	1	20 A	RECEPTACLE WORK ROOM 3204	12
13	EXISTING RECEPT. NURSE 3201	20 A	1	0 VA	0 VA					1	20 A	EXISTING LIGHTS SHELL SPACE 3214	14
15	EXISTING RECEPT. NURSE 3201	20 A	1			0 VA	0 VA			1	20 A	EXISTING RECEPT. OFFICE 3218	16
17	EXISTING RECEPT. PHYS. 3203	20 A	1					0 VA	0 VA	1	20 A	EXISTING RECEPT. OFFICE 3218	18
19	EXISTING RECEPT. PHYS. 3222	20 A	1	0 VA	500 VA					1	20 A	REFRIGERATOR SOILED HOLDING 3207	20
21	EXISTING RECEPT. EXAM 3221	20 A	1			0 VA	1080			1	20 A	RECEPTACLE WORKROOM 3204	22
23	EXISTING RECEPT. EXAM 3205	20 A	1					0 VA	540 VA	1	20 A	RECEPTACLE TREATMENT 3131	24
25	EXISTING RECEPT. ASSIST DEV. 3207	20 A	1	0 VA	0 VA					1	20 A	URODYNAMICS TREATMENT 3131	26
27	EXISTING RECEPT. HEAR AIDS 3220	20 A	1			0 VA	720 VA			1	20 A	RECEPTACLE CLEAN UTILITY 3210	28
29	SOUND BOOTH 3114	20 A	1					0 VA	0 VA	1	20 A	EXISTING RECEPT. OFFICE 3210	30
31	CONTROL CENTER 3113	20 A	1	0 VA	0 VA					1	20 A	EXISTING RECEPT. ENG. 3208	32
33	EXISTING RECEPT. 3209	20 A	1			0 VA	0 VA			1	20 A	EXISTING RECEPT. ENG. 3208	34
35	EXISTING RECEPT. CHAIR 3209	20 A	2					0 VA	0 VA	1	20 A	EXISTING RECEPT. MICRO 3206	36
37		20 A	2	0 VA	0 VA					1	20 A	EXISTING RECEPT. MICRO 3206	38
39	SOUND BOOTH 3112	20 A	1			0 VA	0 VA			1	20 A	EXISTING RECEPT. EXAM 3204	40
41	RECEPTACLE SOILED HOLDING	20 A	1					360 VA	0 VA	1	20 A	EXISTING RECEPT. EXAM 3202	42
43	SPARE	20 A	1	0 VA	0 VA					1	20 A	EXISTING UNDERCOUNTER LIGHTS	44
45	EXISTING RECEPT. VEST PLAT 3209	20 A	1			0 VA	0 VA			1	20 A	EXISTING UNDERCOUNTER LIGHTS	46
47	EXISTING RECEPT. PEDS PLAY 3209	20 A	1					0 VA	0 VA	1	20 A	EXISTING RECEPT. 3218	48
49	EXISTING RECEPT. WAITING 3100	20 A	1	0 VA	0 VA					1	20 A	EXISTING RECEPT. 3206	50
51	EXISTING RECEPT. WAITING 3100, 3103A	20 A	1			0 VA	0 VA			1	20 A	EXISTING RECEPT. 3206	52
53	EXISTING RECEPT. 3100A, 3103A	20 A	1					0 VA	0 VA	1	20 A	EXISTING RECEPT. C3200	54
55	RECEPTACLE TREATMENT 3109	20 A	1	180 VA	0 VA					1	20 A	EXISTING RECEPT. 3306	56
57	RECEPTACLE TREATMENT 3109	20 A	1			180 VA	0 VA			1	20 A	EXISTING RECEPT. 3306	58
59	RECEPTACLE TREATMENT 3109	20 A	1					360 VA	0 VA	1	20 A	EXISTING RECEPT. FACP 3306	60
61	RECEPTACLE EXAM ROOM 3111	20 A	1	1080	0 VA					1	20 A	EXISTING RECEPT. NURSE CALL 3306	62
63	RECEPTACLE TREATMENT 3109	20 A	1			540 VA	900 VA			1		RECEPTACLE WORK ROOM 3204	64
65	RECEPTACLE WORKROOM 3108	20 A	1					1440	0 VA	1	20 A	EXISTING RECEPT. CHECK-IN DESK	66
67	RECEPTACLE WORKROOM 3110	20 A	1	1440	0 VA					1		EXISTING RECEPT. 3103A	68
69	RECEPTACLE WORKROOM 3110	20 A	1			1260	0 VA			1		EXISTING RECEPT. 3206	70
71	RECEPTACLE NURSE WORK 3116	20 A	1					1260	0 VA	1		EXISTING RECEPT. 3206	72
73	RECEPTACLE EXAM 3118	20 A	1	900 VA	1080					1		RECEPTACLE EXAM 3119	74
75	RECEPTACLE EXAM 3120	20 A	1			900 VA	1260			1		RECEPTACLE WORKROOM 3110	76
77	RECEPTACLE EXAM 3105	20 A	1					540 VA	0 VA	1	20 A	SPARE	78
79	RECEPTACLE VITALS 3101	20 A	1	540 VA	0 VA								80
81	RECEPTACLE NURSE WORK 3123	20 A	1			1260	0 VA			3	20 A	SPARE	82
83	RECEPTACLE EXAM 3125	20 A	1					360 VA	0 VA				84
			otal Load: otal Amps:		0 VA 3 A		0 VA 3 A		0 VA 2 A				
												Panel Totals	
												Total Conn. Load: 19940 VA Total Est. Demand: 15510 VA	
												Total Conn.: 55 A	
										-		Total Est Demand: 43 A	

Total Est. Demand: 43 A

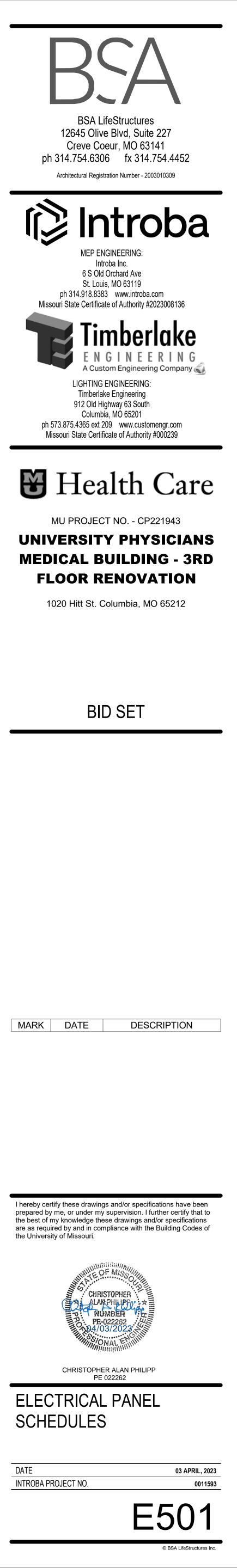
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ESIGNED Design

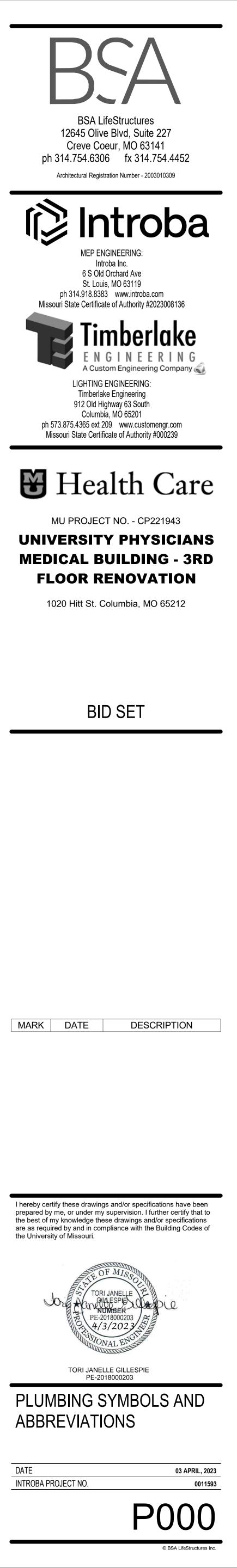
	Location: ELECT. 3201 Supply From: Mounting: Surface Enclosure: Type 1		Volts: 120/208 Wye Phases: 3 Wires: 4								A.I.C. Rating: 10,000 Mains Type: Mains Rating: 225 A MCB Rating: 150 A				
CKT		Trip	Poles		<b>A</b>		В	C	3	Poles			СКТ		
1	EXISTING RECEPT. UTILITY 3305 EXISTING RECEPT. UTILITY 3307	20 A	1	0 VA	0 VA	0.1/4	0 VA			1 1		EXISTING RECEPT. VOICE LAB 3235 EXISTING RECEPT. VOICE LAB 3235	2		
3 5	EXISTING RECEPT. UTILITY 3307	20 A 20 A	1			0 VA	UVA	0 VA	0 VA	1	-	EXISTING RECEPT. VOICE LAB 3235	4		
	EXISTING RECEPT. LOUNGE 3309	20 A	1	0 VA	0 VA			UVA	UVA	1		EXISTING RECEPT. VOICE LAB 3235	8		
	EXISTING RECEPT. LOUNGE 3309 EXISTING RECEPT. OFFICE 3310	20 A 20 A	1	UVA	UVA	0.1/4	0 VA			1		EXISTING RECEPT. VOICE LAB 3235 EXISTING RECEPT. EXAM 3236	_		
9						0 VA	UVA	1440	0.1/4	-			10		
11	RECEPTACLE ULTRASOUND 3149	20 A	1	0.1/4	0.1/4			1440	0 VA	1	-	EXISTING RECEPT. EXAM 3237	12		
13	EXISTING RECEPT. LOUNGE 3309	20 A	1	0 VA	0 VA	0.1/4	0.1/4			1		EXISTING RECEPT. EXAM 3238	14		
15	EXISTING RECEPT. TREAT. 3231	20 A	1			0 VA	0 VA	0.1/4	0.1/4	1		EXISTING RECEPT. EXAM 3239	16		
17	EXISTING RECEPT. TREAT. 3231	20 A	1	4000	0.) (A			0 VA	0 VA	1		EXISTING RECEPT. EXAM 3241	18		
19	RECEPTACLE READING ROOM 3155	20 A	1	1080	0 VA	0.1/4	0.1/4			1		EXISTING RECEPT. EXAM 3243	20		
21	EXISTING RECEPT. ENT. 3223	20 A	1			0 VA	0 VA	0.1/4	0.1/4	1		EXISTING RECEPT. EXAM 3244	22		
23	EXISTING RECEPT. ENT. 3234	20 A	1	0.1/4	0.) (A			0 VA	0 VA	1		EXISTING RECEPT. EXAM 3244	24		
25	EXISTING RECEPT. LOUNGE 3309	20 A	1	0 VA	0 VA	0.1/4	0.1/4			1		EXISTING RECEPT. EXAM 3244	26		
27	EXISTING RECEPT. RECOV. 3229	20 A	1			0 VA	0 VA	0.1/4	0.1/4	1		EXISTING RECEPT. EXAM 3245	28		
29	EXISTING RECEPT. STOR. 3225	20 A	1	0.1/4	0.) (A			0 VA	0 VA	1		EXISTING RECEPT. EXAM 3246	30		
31	EXISTING RECEPT. EXAM 3226	20 A	1	0 VA	0 VA	0.) ( A	0.1/4			1	-	EXISTING RECEPT. TOILET 3247 & EWC	32		
33	EXISTING RECEPT. EXAM 3252	20 A	1			0 VA	0 VA	0.1/4	0.14	1		EXISTING RECEPT. TREAT. 3248	34		
35	EXISTING RECEPT. MICRO 3228	20 A	1	50014	0.1/4			0 VA	0 VA	1		EXISTING RECEPT. TREAT. 3248	36		
37	DOOR OPERATOR WAITING 3002	20 A	1	500 VA	0 VA					1	-	EXISTING RECEPT. TREAT. 3248	38		
39	EXISTING RECEPT. MICRO 3228	20 A	1			0 VA	0 VA			1	-	EXISTING RECEPT. EXAM 3249	40		
41	EXISTING RECEPT. MICRO 33251	20 A	1					0 VA	0 VA	1		EXISTING RECEPT. EXAM 3250	42		
43	RECEPTACLE READING ROOM 3155	20 A	1	1080	0 VA					1	-	EXISTING RECEPT. PHYS 3240	44		
45	RECEPTACLE READING ROOM 3155	20 A	1			1080	0 VA			1		EXISTING RECEPT. PHYS 3240	46		
47	EXISTING RECEPT. PHYS. 3230	20 A	1					0 VA	0 VA	1	-	EXISTING RECEPT. EDU 3003	48		
49	EXISTING RECEPT. PHYS. 3230	20 A	1	0 VA	0 VA					1		EXISTING RECEPT. UNDERCOUNTER LIGHT	50		
51	EXISTING RECEPT. CCR. C3200	20 A	1			0 VA	0 VA			1		EXISTING RECEPT. C3000	52		
53	EXISTING UNDERCOUNTER LIGHTS	20 A	1					0 VA	0 VA	1	-	EXISTING RECEPT. DIMMER LIGHT 3220, 3251			
55	EXISTING RECEPT. EXAM LT. 3231	20 A	1	0 VA	0 VA					1		EXISTING RECEPT. TOILET 3001, 3002	56		
57	EXISTING RECEPT. NURSE 3232	20 A	1			0 VA	0 VA			1		EXISTING RECEPT. C3000	58		
59	RECEPTACLE ULTRASOUND 3151	20 A	1					1080	0 VA	1		EXISTING MAGNETIC LOCK	60		
61	EXISTING RECEPT. NURSE 3232	20 A	1	0 VA	0 VA					1	-	EXISTING RECEPT. NURSE 3242	62		
63	EXISTING RECEPT. CORR C3200	20 A	1			0 VA	0 VA			1		EXISTING RECEPT. NURSE 3242	64		
65	EXISTING RECEPT. DIMMER 3235	20 A	1					0 VA	0 VA	1	-	EXISTING RECEPT. NURSE 3242	66		
67	EXISTING LASER 3231	20 A	2	0 VA	500 VA					1		REFRIGERATOR SOILED HOLDING 3141	68		
69						0 VA	900 VA			1		RECEPTACLE ULTRASOUND 3152	70		
71	RECEPTACLE ULTRASOUND 3149	20 A	1					720 VA	0 VA	1		EXISTING RECPT. 3305	72		
73	RECEPTACLE ULTRASOUND 3150	20 A	1	1260	0 VA					1		RECEPTION DESK 3003	74		
75	RECEPTACLE WORK ROOM 3157	20 A	1			1260	0 VA			1		RECEPTION DESK 3003	76		
77	RECEPTACLE CHECK-IN 3002A	20 A	1					1440	900 VA	1	-	RECEPTACLE OFFICE 3002A2	78		
79	RECEPTACLE ULTRASOUND 3144	20 A	1	1440	720 VA					1		RECEPTACLE WAITING 3002	80		
81	RECEPTACLE ULTRASOUND 3142	20 A	1			1260	900 VA			1	-	RECEPTACLE CONFERENCE 3156	82		
83	RECEPTACLE SOILED HOLDING 3141	20 A	1					1080		1	20 A	RECEPTACLE ULTRASOUND 3154	84		
			tal Load: al Amps:		A VA		0 VA 5 A	7920 68							
												Panel Totals			
										$\vdash$		Total Conn. Load: 19900 VA			
										$\vdash$		Total Est. Demand: 15290 VA Total Conn.: 55 A			
										$\vdash$		Total Est. Demand: 42 A			
										L					

Location: ELECT. 3201 Supply From: Mounting: Surface Enclosure: Type 1				Volts: 480/277 Wye Phases: 3 Wires: 4							A.I.C. Rating: Mains Type: Mains Rating: 225 A MCB Rating:			
СКТ	Circuit Description	Trip	Poles	Ļ	4	E	3	(	0	Poles	Trip	Circuit Description	СКТ	
1	EXISTING LIGHTING 3302, 3305, 3307, 3217	20 A	1	0 VA	0 VA					1	20 A	EXISTING LIGHTING CORR. C3300, C3200	2	
3	EXISTING LIGHTING 3308, 09, 10, 11, 3234, 3	20 A	1			0 VA	0 VA			1	20 A	EXISTING LIGHTING CORR. C3200	4	
5	EXISTING LIGHTING 3224, 25, 27, 29, 31, 3303	20 A	1					0 VA	0 VA	1	20 A	EXISTING LIGHTING 3209, 10, 18, 19, 20, 21,	6	
7	EXISTING LIGHTING 3201, 03, 05 ,22, 26, 52	20 A	1	0 VA	0 VA					1	20 A	EXISTING LIGHTING 3240, 42, 46, 47, 48	8	
9	EXISTING LIGHTING 3228, 30, 51, 52	20 A	1			0 VA	0 VA			1	20 A	EXISTING LIGHTING 3249, 50, 3103A	10	
11	EXISTING LIGHTING 3237, 38, 39, 41, 43, 44,	20 A	1					0 VA	0 VA	1	20 A	EXISTING LIGHTING 3100, 01, 02, 3204, 06	12	
13	EXISTING LIGHTING CORR. C3000	20 A	1	0 VA	0 VA					1	20 A	EXISTING EXIT LIGHTS	14	
15	EXISTING LIGHTING EDU. 3003, TOILET 300	20 A	1			0 VA	0 VA			1	20 A	EXISTING LIGHTING ELEC 3301, TOILET 3217	16	
17	SPARE	20 A	1					0 VA	0 VA	1	20 A	EXISTING LIGHTING CORR. C3200	18	
19	SPARE	20 A	1	0 VA	0 VA					1	20 A	EXISTING LIGHTING TOILET 3217, 3218	20	
21	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	22	
23	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	24	
25	SPACE		1		0 VA					1	20 A	SPARE	26	
27	SPACE		1							1		SPACE	28	
29	SPACE		1							1		SPACE	30	
31	SPACE		1							1		SPACE	32	
33	SPACE		1							1		SPACE	34	
35	SPACE		1							1		SPACE	36	
37				0 VA	0 VA								38	
39	EXISTING TRANSFORMER N3B	70 A	3			0 VA	0 VA			3	100 A	EXISTING TRANSFORMER N3A	40	
41								0 VA	0 VA				42	
	Total Load			0 \		0 \			VA					
		То	tal Amps:	0	A	0	A	0	A		_			
												Panel Totals		
												Total Conn. Load:       0 VA         Total Est. Demand:       0 VA         Total Conn.:       0 A		
												Total Est. Demand: 0 A		



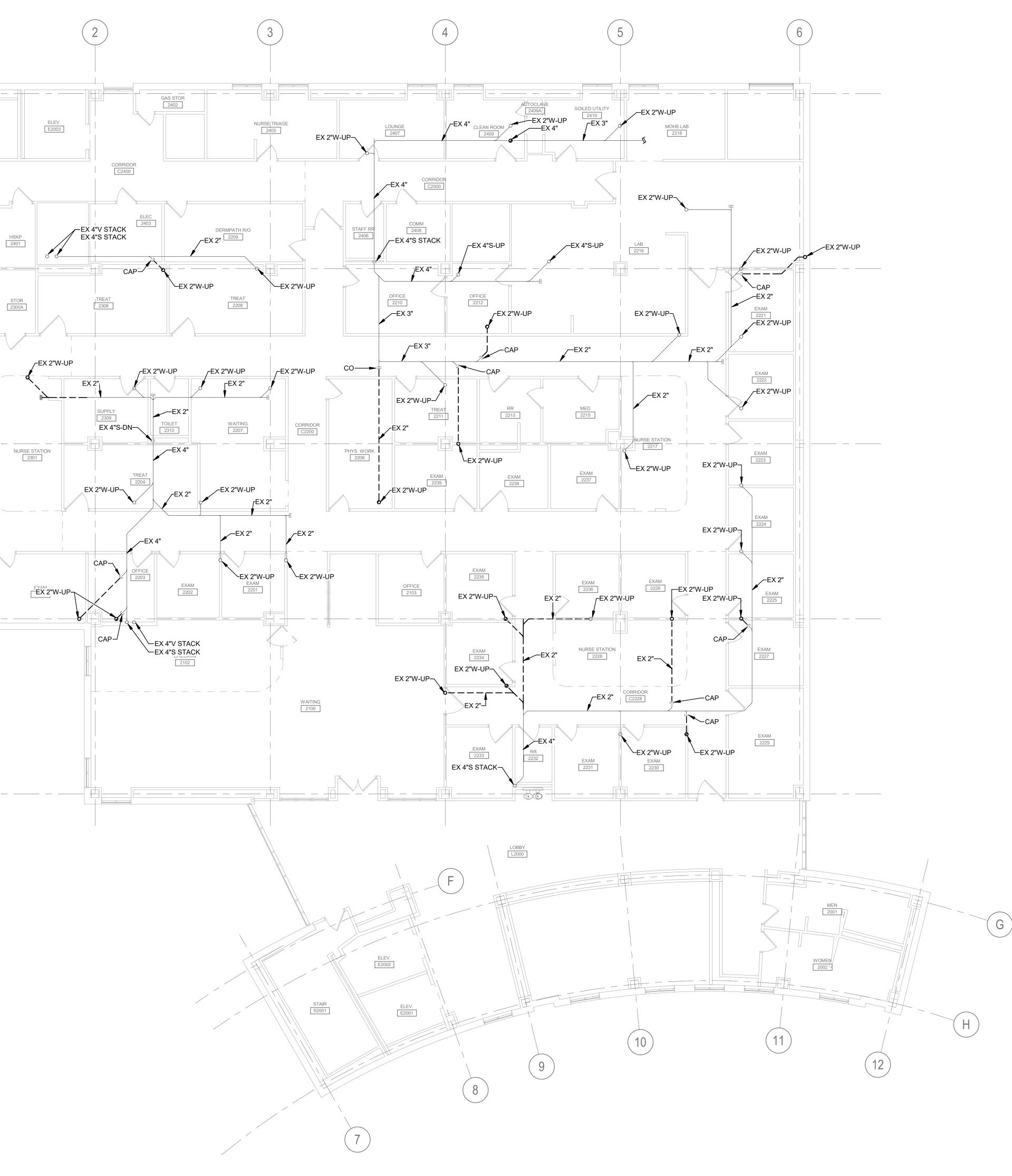
PROCESS PIPING SYMBOLS & ABBREVIATIONS	PLUMBING SYMBOLS & ABBREVIATIONS	COMMON PLUMBING SYMBOLS &	PLUMBING ABBREVIATIONS	PLUMBING GENERAL NOTES
NOT ALL SYMBOLS ARE USED FOR THIS PROJECT	NOT ALL SYMBOLS ARE USED FOR THIS PROJECT	ABBREVIATIONS	ADA AMERICANS WITH DISABILITIES ACT	1. DUE TO THE LIMITED SPACE AVAILABLE FOR THE INSTALLATION OF ALL THE PLUMBING WORK, COORDINATION BETWEEN ALL OTHER TRADES IS OF UTMOST IMPORTANCE.
	TRAPPED CONNECTION	NOT ALL SYMBOLS ARE USED FOR THIS PROJECT	ADA AMERICANS WITH DISABILITIES ACT AP ACCESS PANEL	2. THIS CONTRACTOR SHALL VISIT THE PROJECT SITE AND VERIFY LOCATIONS, ELEVATIONS
CA     COMPRESSED AIR PIPING (NON-MEDICAL)     COMPRESSED AIR INTAKE PIPING (NON-MEDICAL)	STRAINER	DIRECTION OF FLOW	BP BOOSTER PUMP	AND SIZES OF ALL UTILITIES AT SITE PRIOR TO PROCEEDING WITH WORK. EXISTING SYSTEMS AND STRUCTURE SHALL BE INVESTIGATED FOR BEST POSSIBLE ROUTING OF
COMPRESSED AIR INTARE PIPING (NON-MEDICAL)		BRANCH CONNECTION, BOTTOM	BF BOOSTERFOMF BT BATHTUB	COLD WATER, HOT WATER, SANITARY WASTE AND VENT, STORM AND MEDICAL LABORATORY GAS PIPING.
DA DENTAL AIR PIPING	CLEANOUT (CO)	BRANCH CONNECTION, TOP	BTC BRANCH TO CONNECTION	3. THESE PLANS ARE DIAGRAMMATIC IN NATURE SINCE THE ONLY AVAILABLE INFORMATION
DENTAL AIR INTAKE PIPING	TEMPERATURE GAUGE		BV BALANCE VALVE	HAS BEEN OBTAINED FROM EXISTING PLANS, SPECIFICATIONS, AND FIELD SURVEYS. THE EXACT LOCATION OF PIPING, FIXTURES AND EQUIPMENT MAY DEVIATE FROM THE
DENTAL VACUUM PIPING	TEMPERATORE GAUGE		CI CAST IRON	LOCATION INDICATED ON THESE DRAWINGS. EXTREME ACCURACY IS NOT GUARANTEED. THIS CONTRACTOR SHALL BE PREPARE TO MAKE ALTERATIONS TO NEW AND/OR
DV     DENTAL VACUUM EXHAUST PIPING	REDUCED PRESSURE BACKFLOW PREVENTER	SHUTOFF VALVE	CO CLEANOUT	EXISTING SERVICES TO FIT JOB CONDITIONS. THIS CONTRACTOR SHALL FURNISH A COMPLETE CODE COMPLYING SYSTEM. THIS CONTRACTOR SHALL REPORT, IN WRITING,
——————————————————————————————————————	HOSE BIBB/WALL HYDRANT		CSS CLINICAL SERVICE SINK	ANY DISCREPANCIES WHICH PREVENT THE INSTALLATION OF WORK AS SHOWN.
LCW LAB COLD WATER			DCVA DOUBLE CHECK VALVE ASSEMBLY	<ol> <li>IF THIS CONTRACTOR DOES NOT CLEARLY UNDERSTAND THESE PLANS OR IS NOT COMPLETELY SURE OF THEIR MEANING, THIS CONTRACTOR SHOULD OBTAIN THE</li> </ol>
LAB HOT WATER		PRESSURE GAUGE	DS DOWNSPOUT	ENGINEER'S WRITTEN EXPLANATION AND/OR INTERPRETATION PRIOR TO SUBMITTING BIDS, SINCE THIS CONTRACTOR WILL BE HELD RIGIDLY TO THE INTERPRETATION OF THE
LAB GAS PIPING			DW DISHWASHER	ENGINEER.
LAB VACUUM PIPING	DEIONIZED WATER PIPING		DWH DOMESTIC WATER HEATER	5. 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
	REVERSE OSMOSIS PIPING (RO)		EEW EMERGENCY EYE WASH	LIMITED TO, ANY EXISTING WALL, CEILING OR FLOOR THAT IS SCHEDULED TO REMAIN. REPAIR, PAINTING, AND PATCHING SHALL BE COMPLETED BY AN APPROPRIATE
	DOMESTIC COLD WATER PIPING (CW)		ESEW EMERGENCY SHOWER & EYE WASH	CONTRACTOR QUALIFIED FOR THIS TYPE OF WORK.
	DOMESTIC HOT WATER PIPING (HW)	CONNECTION TO EXISTING	ESH EMERGENCY SHOWER	6. THE OWNER SHALL MAINTAIN ALL SALVAGE RIGHTS OF FIXTURES, EQUIPMENT AND MATERIALS REMOVED, HOWEVER, ALL FIXTURES, EQUIPMENT AND MATERIALS NOT
	DOMESTIC HOT WATER RETURN PIPING (HWR)		ET EXPANSION TANK	CLAIMED BY THE OWNER SHALL BE REMOVED FROM THE PREMISES AND PROPERLY DISPOSED OF THE BY THE DEMOLITION CONTRACTOR.
	NON-POTABLE WATER PIPING	DETAIL DESIGNATION	EWC ELECTRIC WATER COOLER	7. CEILING REMOVAL, STORAGE AND REPLACEMENT FOR NEW PIPING INSTALLATION SHALL
OXYGEN PIPING	PUMP DISCHARGE PIPING		FCO FLOOR CLEAN OUT	BE BY THE GENERAL CONTRACTOR.
	SANITARY PIPING		GCO GRADE CLEANOUT	8. IF HAZARDOUS MATERIALS ARE ENCOUNTERED DURING DEMOLITION OPERATIONS, THE CONTRACTOR WILL NOTIFY BUILDING OWNER OF THE HAZARDOUS MATERIAL.
	SUBSOIL DRAINAGE PIPING	# KEYED NOTE	GD GARBAGE DISPOSAL	9. TEMPORARY CONNECTION SHALL BE PROVIDED BY RESPECTIVE PLUMBING AND FIRE PROTECTION CONTRACTORS WHEN EXTENDED INTERRUPTIONS OF SERVICES AND
or ± EXISTING GAS OUTLET	STSTORM PIPING	$\wedge$	HB HOSE BIBB	UTILITIES SUCH AS WATER, WASTE AND FIRE PROTECTION WHICH SERVE OTHER AREAS ARE NECESSARY.
■ or ± NEW GAS OUTLET	OVERFLOW STORM PIPING		HWRP HOT WATER RETURN PUMP	10. COORDINATE WITH MAINTENANCE PERSONNEL AS TO SOURCE OF UTILITIES AND
EXISTING ZONE VALVE DESIGNATION	TEMPERED WATER	AFF ABOVE FINISH FLOOR	HWST HOT WATER STORAGE TANK	TEMPORARILY DISCONNECT OR SHUT OFF SERVICES OR UTILITIES AT NEAREST MAIN. TEMPORARY AND ACCESSIBLE ISOLATION VALVES SHALL BE INSTALLED CLOSE TO THIS
	VENT PIPING	AHJ AUTHORITIES HAVING JURISDICTION	IM ICE MAKER	POINT OF WORK.
NEW ZONE VALVE DESIGNATION	EXISTING FIXTURE TO BE REMOVED	AP ACCESS PANEL	IW INDIRECT WASTE	11. IT IS ESSENTIAL THAT BUILDING OPERATIONS CONTINUE WITH MINIMAL INTERRUPTIONS. IT IS NECESSARY THAT OPERATION OF EXISTING SYSTEMS BE INTERFACED WITH AS
EXISTING AREA ALARM DESIGNATION		BOP BOTTOM OF PIPE	LA LAVATORY	LITTLE DISRUPTION AS POSSIBLE EXCEPT IN AREAS VACATED FOR CONSTRUCTION WORK. WORK WHICH WILL INTERFERE WITH OPERATION OF EXISTING FIRE SUPPRESSION
NEW AREA ALARM DESIGNATION	EXISTING FIXTURE	DIA DIAMETER DN DOWN	MB MOP BASIN	AND PLUMBING SYSTEMS OR WHICH REQUIRE DOWNTIME WILL BE SCHEDULED ONLY AFTER CONSULTATION WITH AND PERMISSION GIVEN BY THE OWNER. ALLOW 10 DAYS
		EX OR EXIST EXISTING	NIC NOT IN CONTRACT	PRIOR TO ANTICIPATED INTERRUPTION OF SYSTEMS. WORK MAY BE REQUIRED TO BE PERFORMED OUTSIDE NORMAL WORKING HOURS.
EXISTING MEDICAL GAS MASTER ALARM DESIGNATION	NEW FIXTURE	FFE FINISHED FLOOR ELEVATION	OB OUTLET BOX	12. ARCHITECTURAL DEMOLITION DRAWINGS AND SPECIFICATIONS SHALL BE READ IN
NEW MEDICAL GAS MASTER ALARM DESIGNATION		GPH GALLONS PER HOUR	RD ROOF DRAIN	CONJUNCTION WITH THESE DRAWINGS.
AA AREA ALARM	FLOOR DRAIN/FLOOR SINK (FD/FS)	GPM GALLONS PER MINUTE	RPZ REDUCED PRESSURE BACKFLOW PREVENTER	<ol> <li>ALL PIPING HANGERS AND SUPPORTS SHALL BE REMOVED ALONG WITH PIPING BEING REMOVED.</li> </ol>
ESOV EMERGENCY SHUT-OFF VALVE	CIRCULATION PUMP	HP HORSEPOWER	S SANITARY	14. THE CONTRACTOR SHALL COORDINATE DEMOLITION WORK WITH PROJECT'S PHASING
ZV ZONE VALVE		IE OR INV. ELEV INVERT ELEVATION	S/S STAINLESS STEEL	SCHEDULE PRIOR TO COMMENCEMENT OF ANY WORK.
		NC NORMALLY CLOSED	SH SHOWER	15. WHEN PLACING NEW PLUMBING FIXTURES, CONTRACTOR SHALL VERIFY LOCATIONS OF PLUMBING VENTS. OFFSET VENTS THAT TERMINATE WITHIN 25 FEET OF HVAC UNITS
		NTS NOT TO SCALE	SK SINK	OUTDOOR AIR INTAKES. CONTRACTOR SHALL FIELD VERIFY PRIOR TO BID WHERE THE INTERFERENCE'S ARE PRICE ACCORDINGLY OR MAKE ALLOWANCES IN BID.
		PSI POUNDS PER SQUARE INCH	SP SUMP PUMP	16. USE CAUTION WHEN SAW-CUTTING THROUGH EXISTING CONCRETE FLOOR OR WALL
		RPM REVOLUTIONS PER MINUTE	SS SANITARY STACK	CONSTRUCTION FOR THE INSTALLATION OF PLUMBING SYSTEMS TO AVOID CUTTING REBAR AT EDGE OF OPENING. LEAVE SUFFICIENT REBAR EXPOSED TO TIE NEW REINFORCING REPLACEMENT CONCRETE AND/OR OTHER STRUCTURAL ATTACHMENTS
		RI ROUGH-IN	SSK SHOP SINK	FOR NEW CONSTRUCTION.
		SOV SHUTOFF VALVE	SW SOFT WATER TMV THERMOSTATIC MIXING VALVE	17. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REVISIONS, TRANSITIONS, OFFSETS, ETC., TO AVOID DUCTWORK, PIPING, EQUIPMENT OR STRUCTURE NEW OR EXISTING AND
		TDH TOTAL DYNAMIC HEAD	UR URINAL	TO MAKE A COMPLETE AND FUNCTIONING SYSTEM.
		VIF VERIFY IN FIELD	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	

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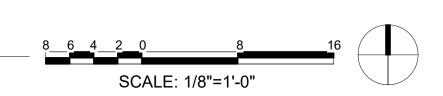
 $\widehat{1}$ (A)ELEV. E2003 STAIR S2002 HSKP 2401 B TREAT STOR 2300A CORRIDOR C2300 ∕-EX 2"W-UP TREAT 2305 C NURSE STATION TREAT OFFICE 2303 EX 2"W-UP (D)\_\_\_\_\_ E

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



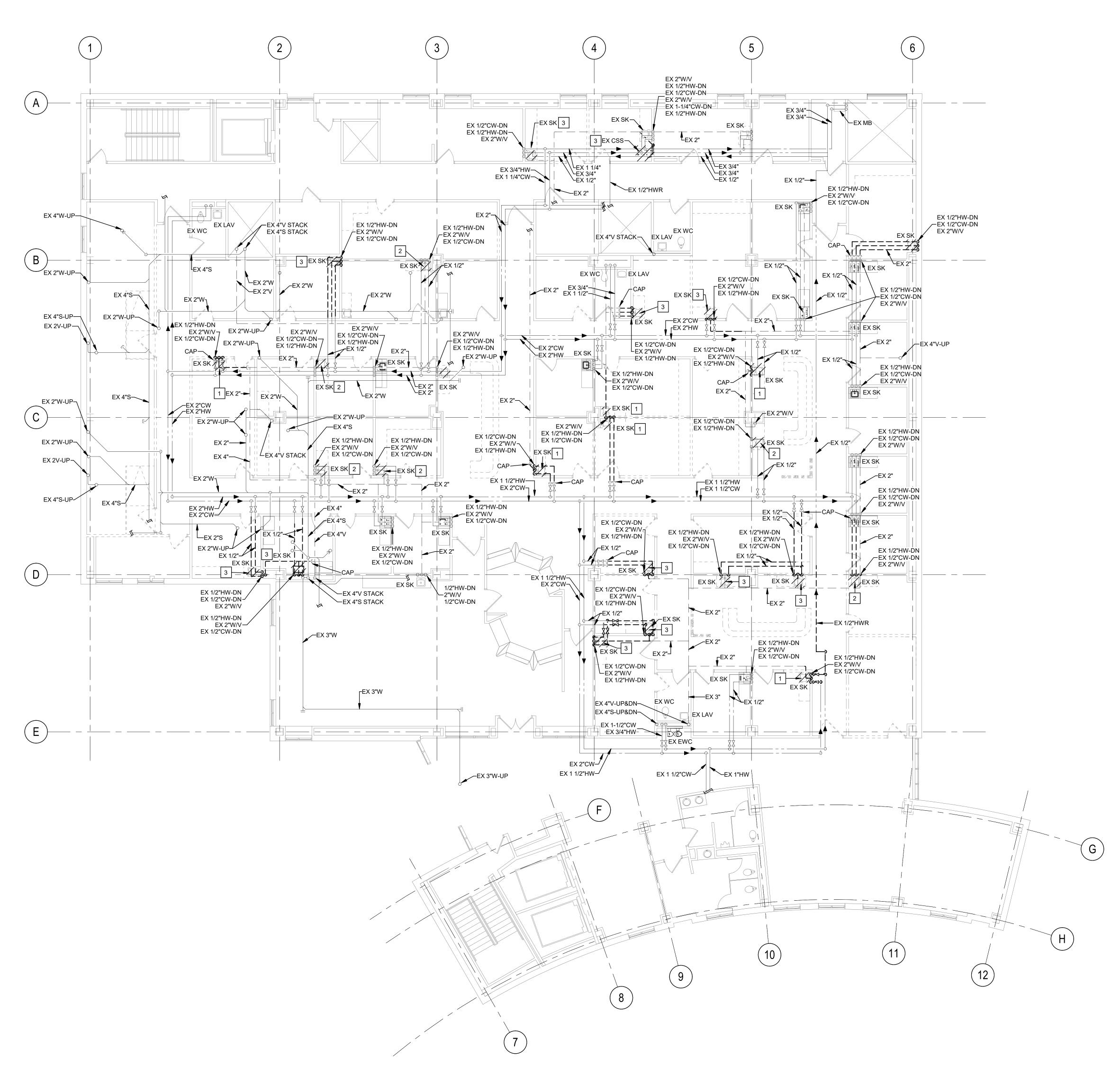
### GENERAL NOTES

A. ANY PVC PIPING FOUND IN PROJECT SCOPE TO BE REPLACED WITH CAST IRON.



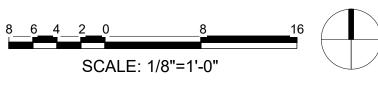






A. ANY PVC PIPING FOUND IN PROJECT SCOPE TO BE REPLACED WITH CAST IRON.

#	KEYED NOTES
1.	EXISTING PLUMBING FIXTURE TO BE DEMOLISHED. EXISTING DOMESTIC WATER, SANITARY AND VENT PIPING TO BE DEMOLISHED BACK TO MAIN AND CAPPED.
2.	EXISTING SINK TO BE DEMOLISHED AND REPLACED WITH NEW SINK IN NEW WORK PHASE. ROUGH-IN TO REMAIN FOR RECONNECTION.
3.	EXISTING SINK TO BE DEMOLISHED.

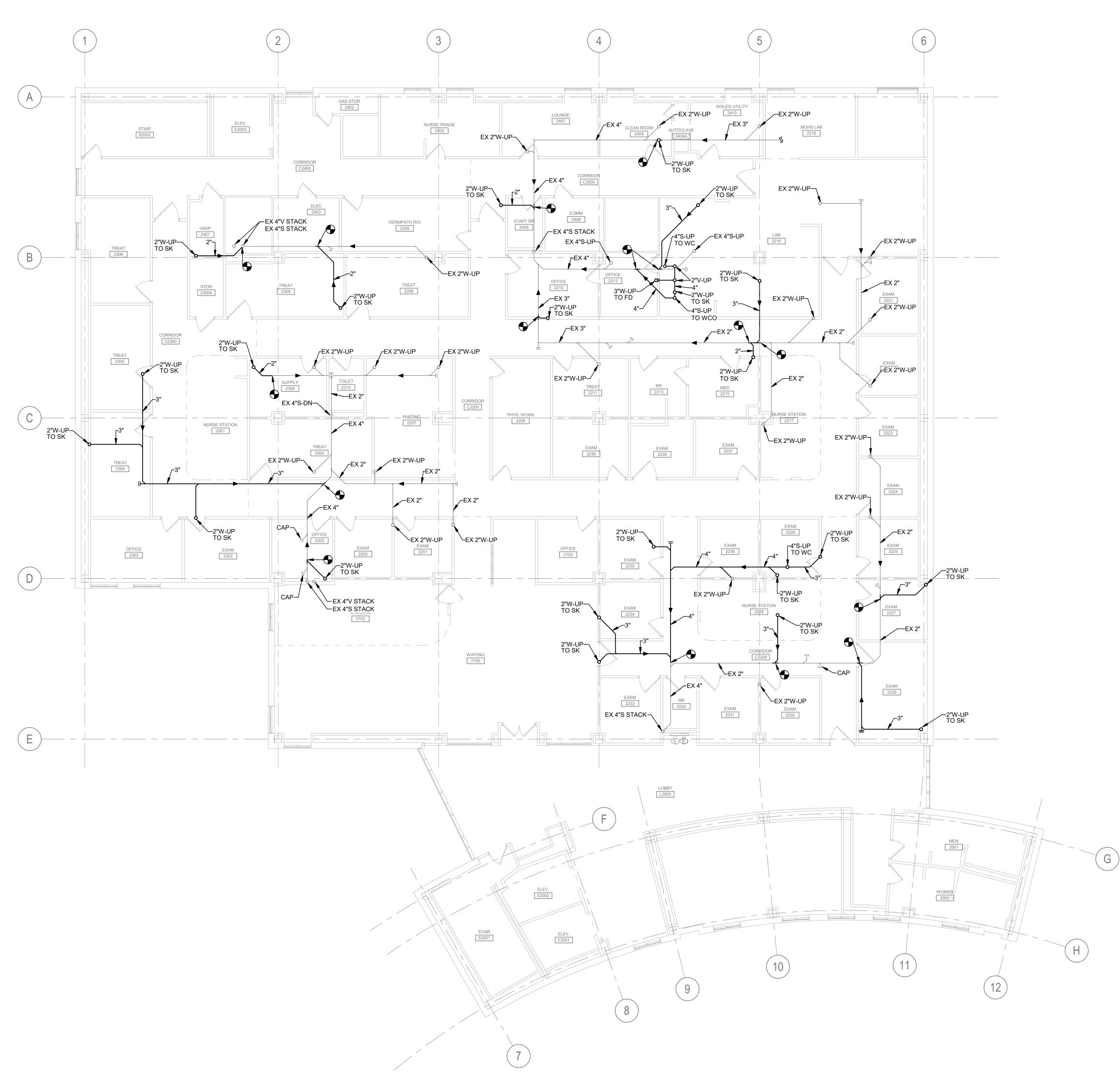




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ilM 360://14110010 - UPMB Renovation - 3rd Floor/0011593.000 MUHC UPMB 3rd Floor Renovation

ESIGNED Designer ZAWN Author

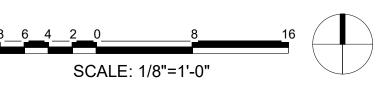


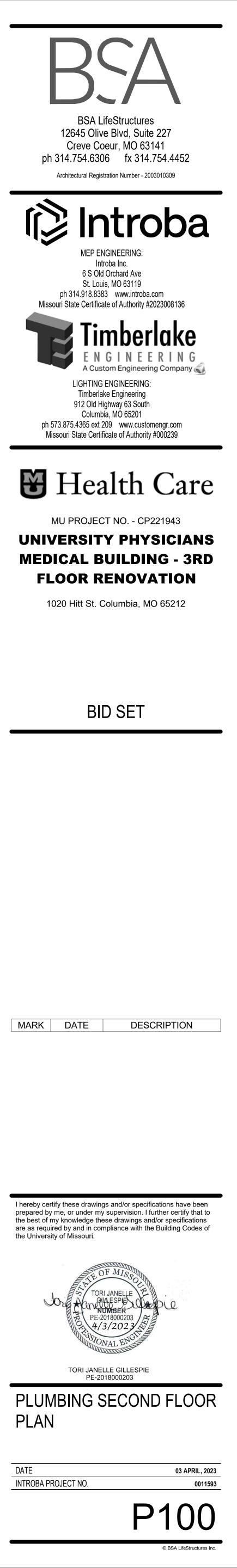


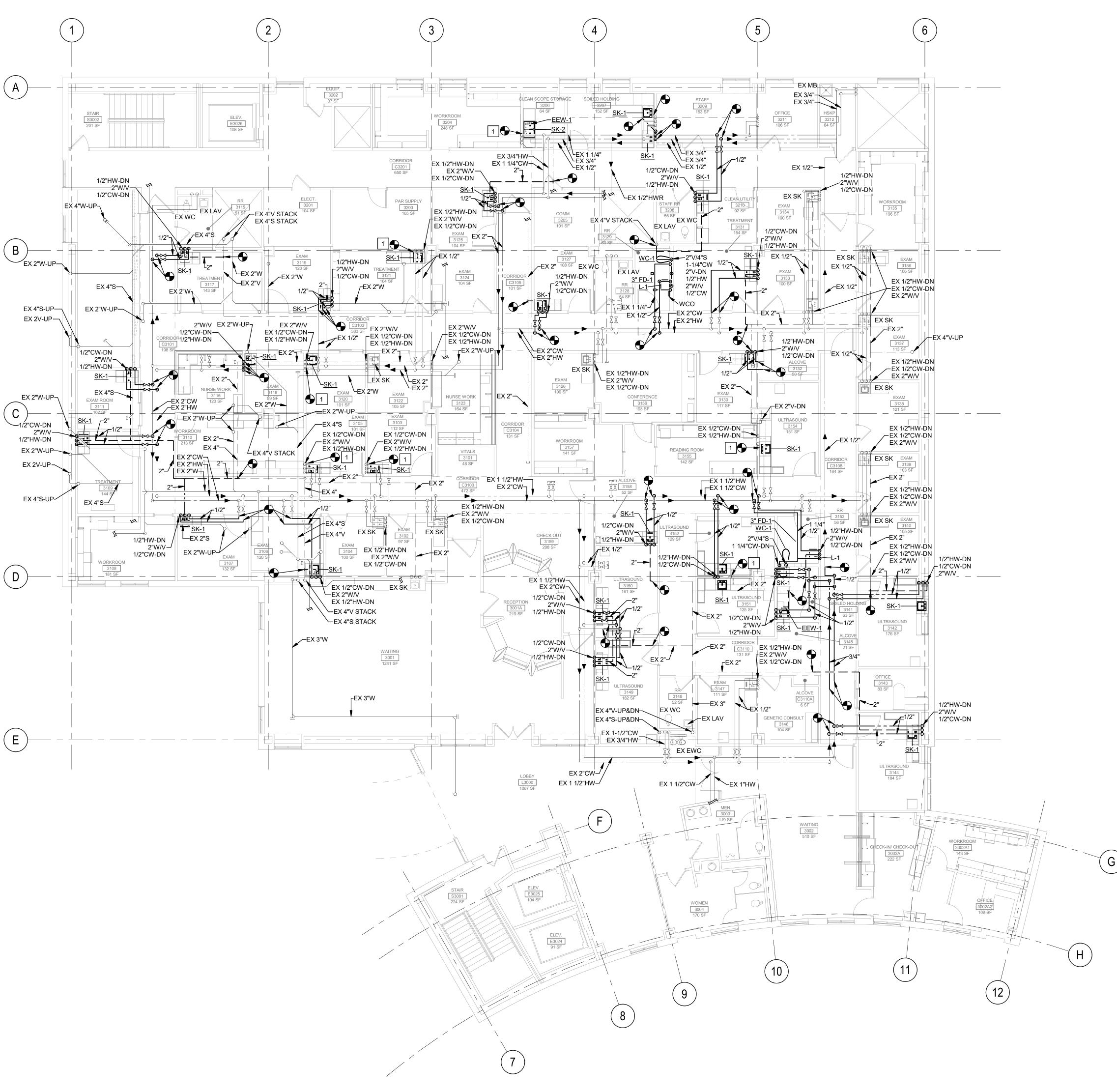
PLUBMING - SECOND FLOOR NEW WORK PLAN
1/8" = 1'-0"

#### GENERAL NOTES

A. ANY PVC PIPING FOUND IN PROJECT SCOPE TO BE REPLACED WITH CAST IRON.







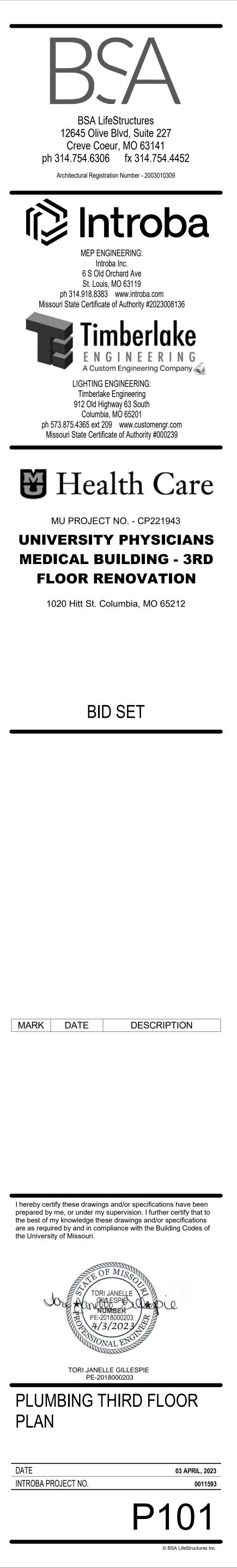


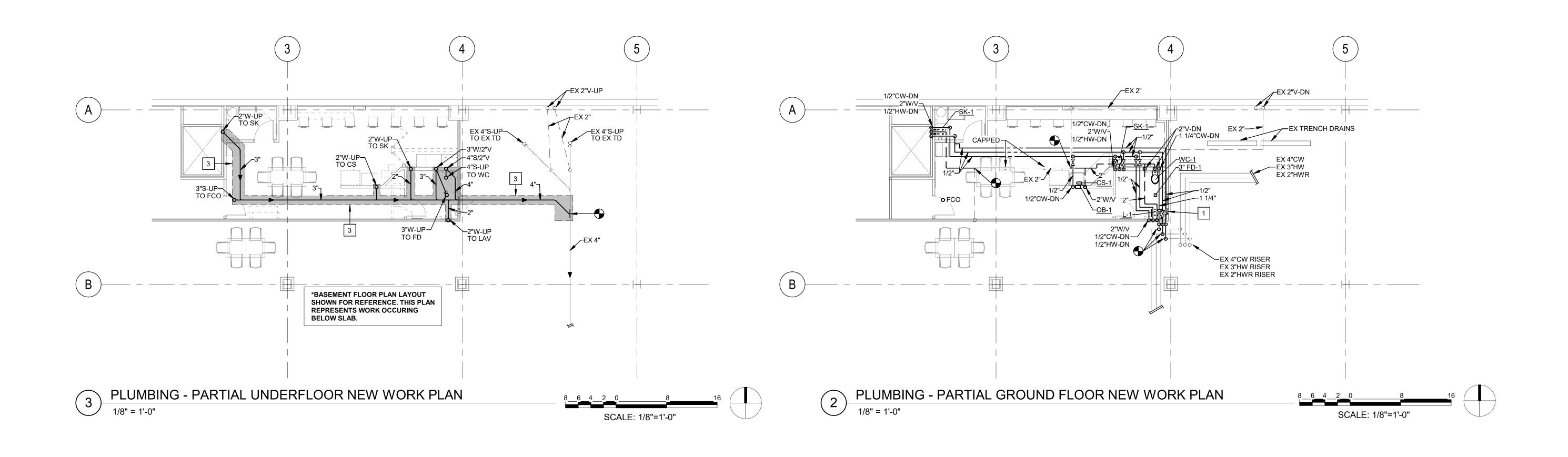
ANY PVC PIPING FOUND IN PROJECT SCOPE TO BE REPLACED WITH CAST IRON.

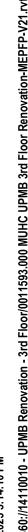


CONNECT NEW PLUMBING FIXTURE TO EXISTING ROUGH-IN.

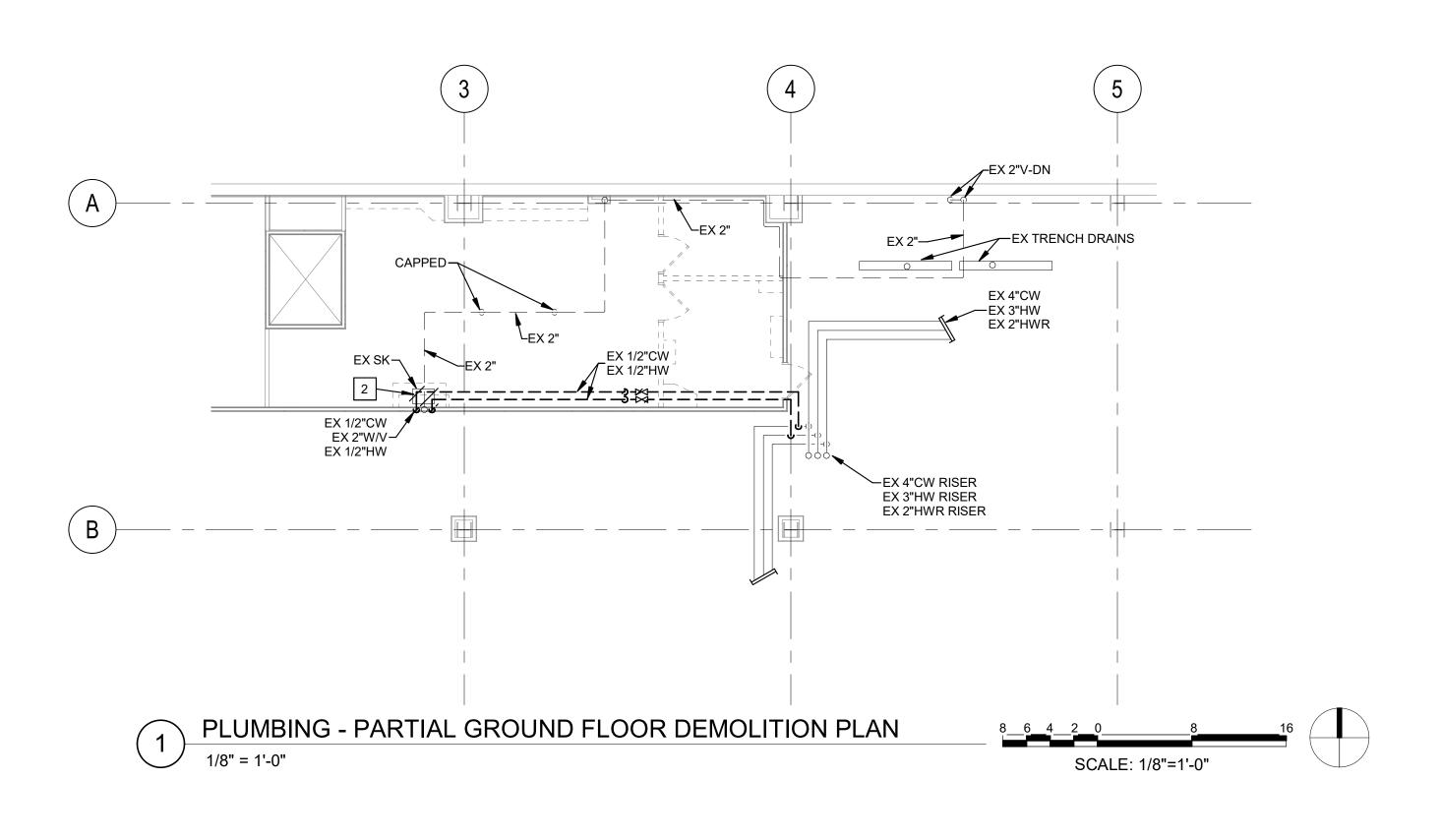
SCALE: 1/8"=1'-0





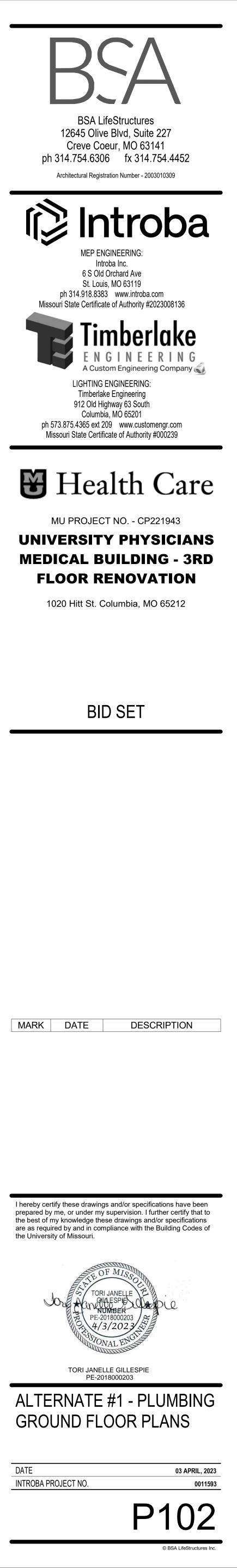


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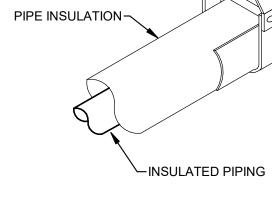
#### **#** KEYED NOTES

- 1. SEE "CALIBRATED BALANCING VALVE" DETAIL ON SHEET P500 FOR MORE INFORMATION.
- 2. EXISTING PLUMBING FIXTURE TO BE DEMOLISHED. EXISTING DOMESTIC WATER, SANITARY AND VENT PIPING TO BE DEMOLISHED BACK TO MAIN AND CAPPED.
- 3. SAW CUT EXISITNG CONCRETE SLAB FOR INSTALLATION OF NEW WASTE PIPING SERVING GROUND FLOOR PLUMBING FIXTURES. PATCH CONCRETE FLOOR TO MATCH EXISTING SURROUNDING SURFACES. COORDINATE NEW BELOW-SLAB SANITARY PIPING WITH EXISTING STRUCTURAL FOOTINGS.



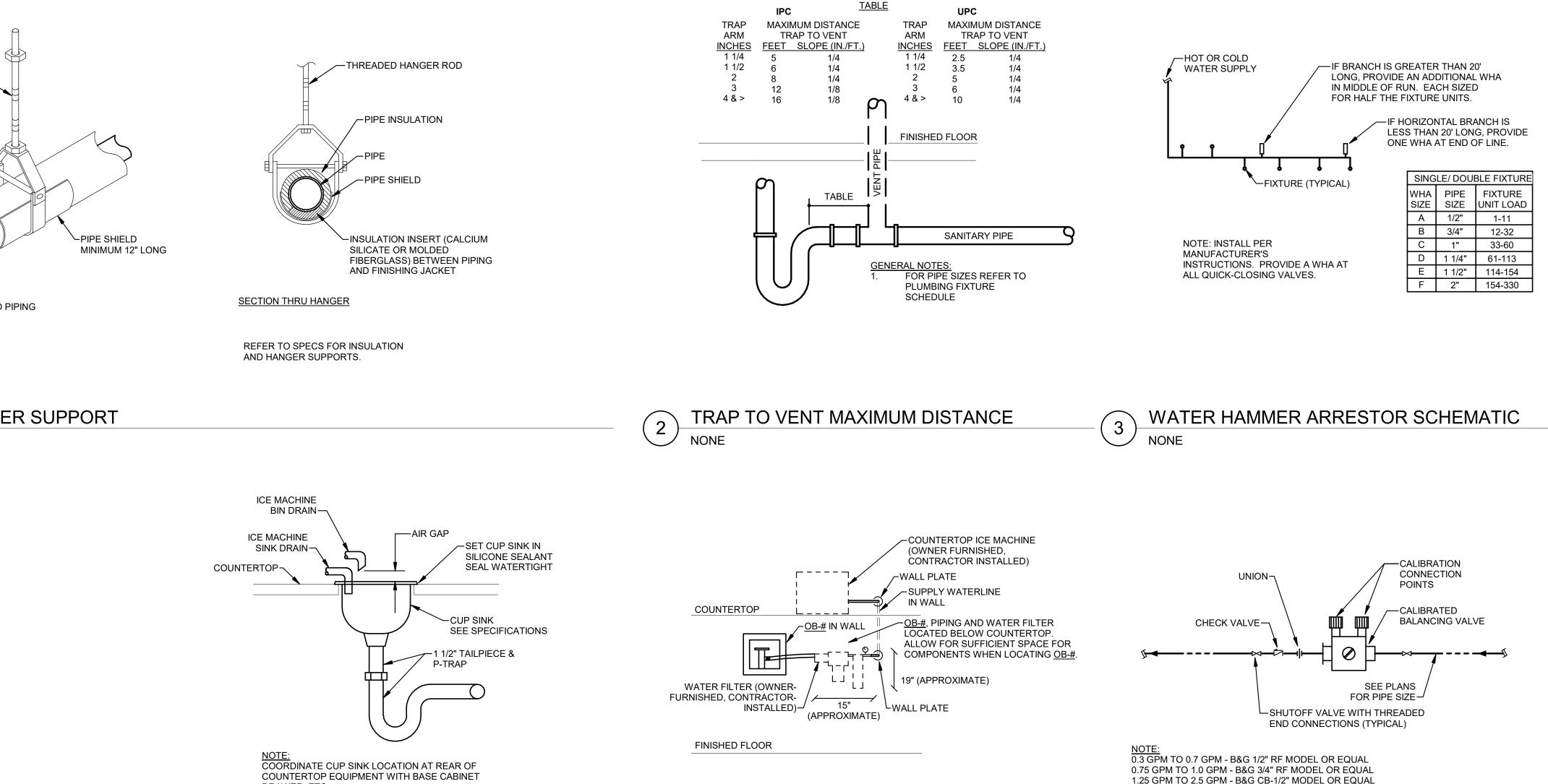
					PLUMBING FIXTURE	SCHEDULE							
PLAN MARK	DESCRIPTION	MANUFACTURER	MODEL	TRIM	DRAIN / TRAP	SUPPLIES	CARRIER	HOT WATER	COLD WATER	TEMPERED WATER	SANITARY / WASTE	VENT	NOTES
CS-1	CUP SINK (ICE MAKER)	ORION	CS1	-	GRID DRAIN/CHROME PLATED P-TRAP	CHICAGO FAUCET LOOSE KEY ANGLE STOPS AND RISERS	-	-	-	-	2"	2"	
EEW-1	SINK MOUNTED EYEWASH	GUARDIAN	G1775	#G6020 GUARDIAN EMERGENCY THERMOSTATIC MIXING VALVE	-	-	-	-	-	1/2"	-	-	SEE TRIM FOR EMERGENCY MIXING VALVE SELECTION.
L-1	WALL HUNG LAVATORY	AMERICAN STANDARD	LUCERNE #0355.012	CHICAGO FAUCETS #116.606.AB.1 SENSOR FAUCET; 0.5 GPM	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 INSULATIO KIT WITH #105 OFFSET DRAIN INSULATION KIT. 0.5 GPM NON-AERATED OUTLET.
OB-1	OUTLET BOX (ICE MAKER)	SIOUX CHIEF	696-G1010MF	-	-	INTEGRAL	-	-	1/2"	-	-	-	
SK-1	SINGLE BOWL STAINLESS STEEL SINK	ELKAY	DLR191910PD	CHICAGO FAUCETS #201-AGN8AE36-317AB MANUAL FAUCET; 1.5GPM	GRID DRAIN/CHROME PLATED P-TRAP	CHICAGO FAUCET LOOSE KEY ANGLE STOPS AND RISERS	-	1/2"	1/2"	-	2"	2"	
SK-2	DOUBLE BOWL STAINLESS STEEL SINK	ELKAY	DLR332210PD	CHICAGO FAUCETS #201-AGN8AE36-317AB MANUAL FAUCET; 1.5GPM	GRID DRAIN/CHROME PLATED P-TRAP	CHICAGO FAUCET LOOSE KEY ANGLE STOPS AND RISERS	-	1/2"	1/2"	-	2"	2"	
WC-1	FLOOR MOUNT FLOOR OULET WATER CLOSET	AMERICAN STANDARD	MADERA FLOWISE #3461.001	SLOAN ROYAL 111-SFSM-1.6 SENSOR FLUSHOMETER; 1.6 GPF, BATTERY OPERATED	INTEGRAL	-	-	-	1 1/4"	-	4"	2"	

**INSULATED PIPE HANGER SUPPORT** NONE



CLEVIS HANGER~

THREADED HANGER ROD~



COUNTERTOP ICE MACHINE INDIRECT WASTE CONNECTION

DRAWER, ETC.

(4

NONE

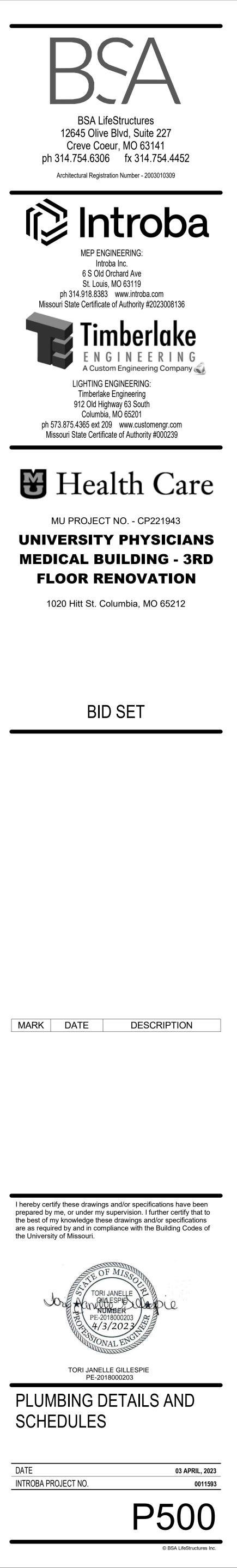
COUNTERTOP ICE MACHINE WATER SUPPLY DETAIL (5 NONE  $\smile$ 

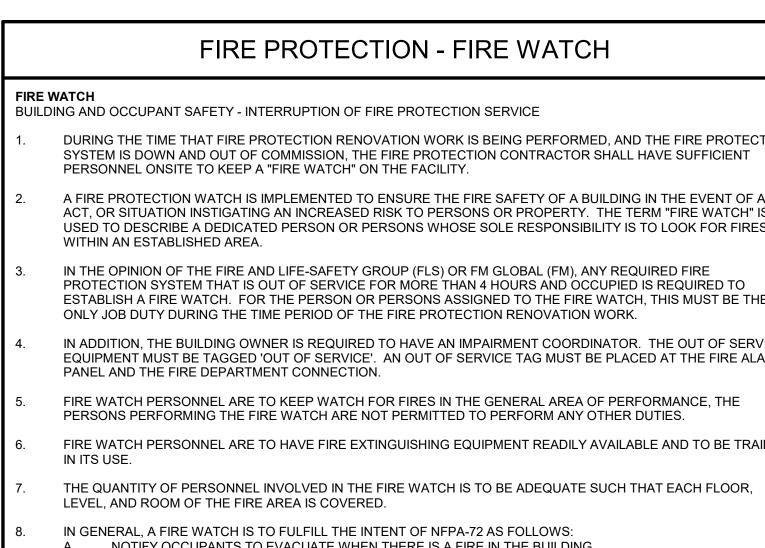
PLAN MARK FD-1

1.25 GPM TO 2.5 GPM - B&G CB-1/2" MODEL OR EQUAL 2.6 GPM TO 4.7 GPM B&G CB-3/4" MODEL OR EQUAL 4.8 GPM TO 9.7 GPM B&G CB-1" MODEL OR EQUAL

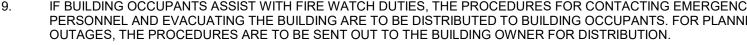
## CALIBRATED BALANCING 6 VALVE NONE

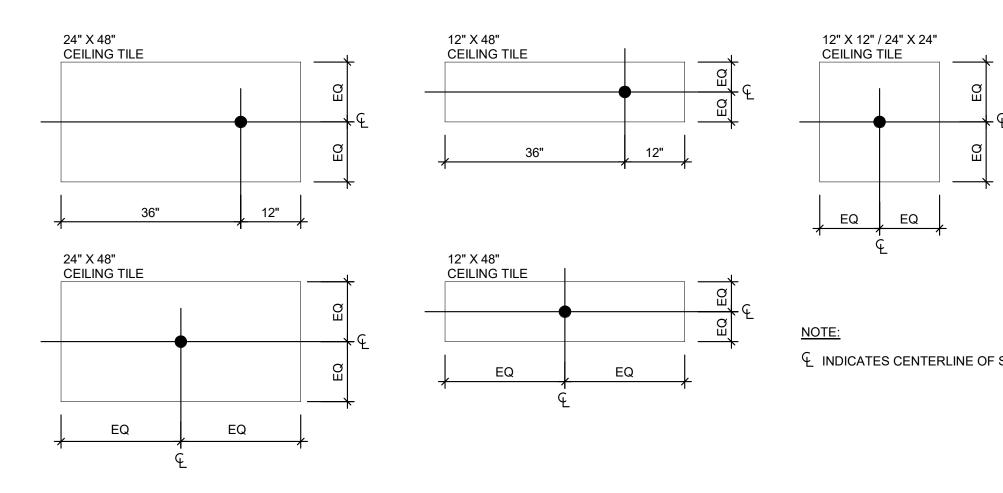
	DRAIN SCH	IEDULE			
DESCRIPTION	MANUFACTURER	MODEL	BODY	STRAINER	NOTES
SQUARE FLOOR DRAIN	SIOUX CHIEF	832 SERIES	CAST IRON	NICKEL BRONZE	PROVIDE TRAP SEAL.



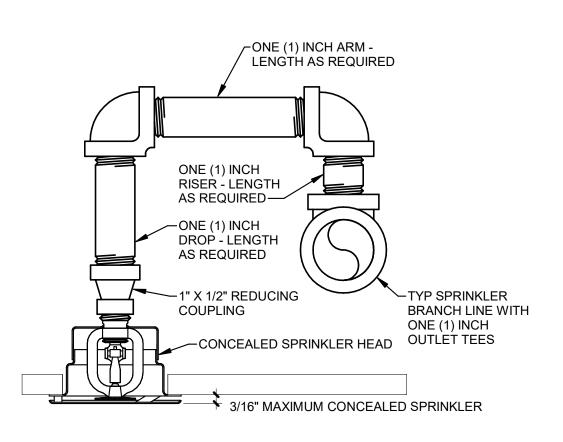


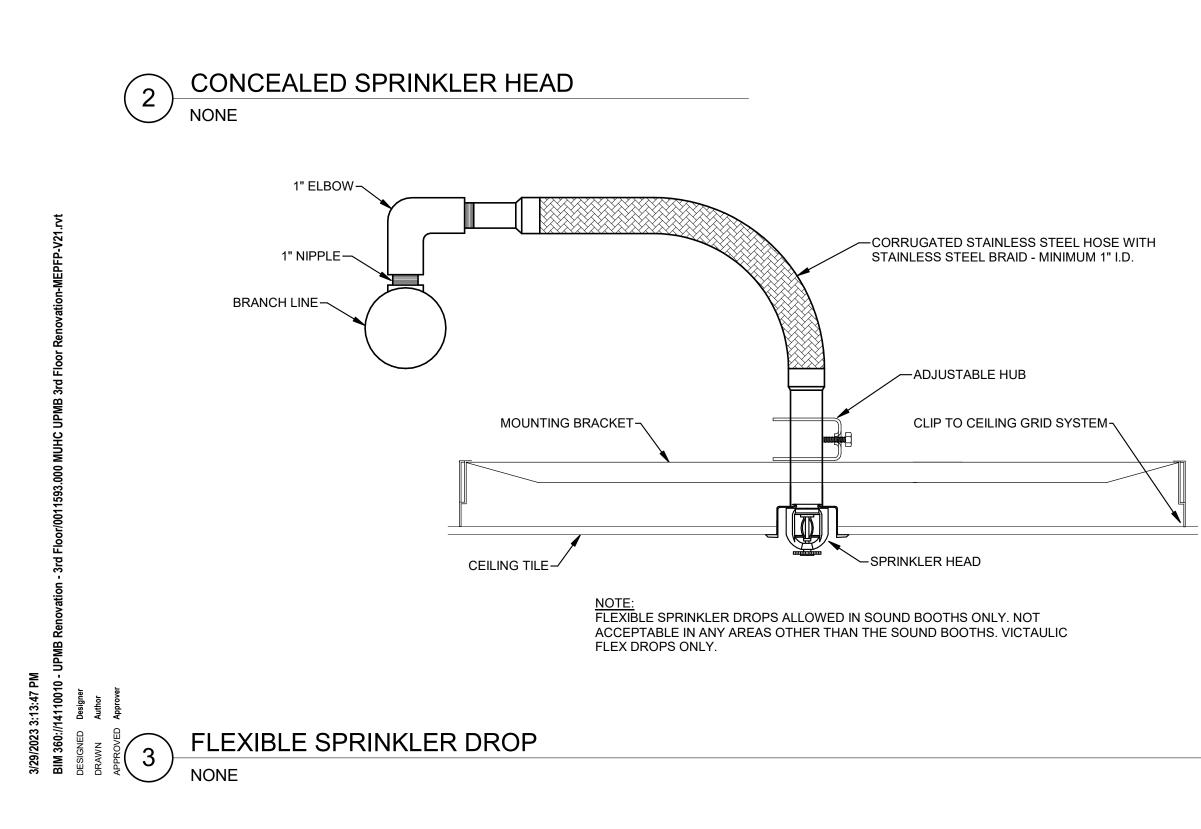
A. NOTIFY OCCUPANTS TO EVACUATE WHEN THERE IS A FIRE IN THE BUILDING.
 B. NOTIFY THE CENTRAL MONITORING STATION TO INITIATE EMERGENCY PERSONNEL RESPONSE.
 C. ACTIVATE FIRE PROTECTION SYSTEMS IN ORDER TO RELEASE DOOR HOLDERS, CLOSE SMOKE DAMPE AND SHUT DOWN FANS.
 IF BUILDING OCCUPANTS ASSIST WITH FIRE WATCH DUTIES, THE PROCEDURES FOR CONTACTING EMERGENC





#### 1 SPRINKLER HEAD LOCATION NONE





	FIRE PROTECTION GENERAL NOTES - EXISTING PROJECT	COMM SYMBC
CTION	<ol> <li>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. IFC</li> </ol>	NOT ALL S
ANY IS ES	<ul> <li>B. IBC</li> <li>C. OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA)</li> <li>D. NATIONAL FIRE PROTECTION ASSOCIATION EDITIONS LISTED IN THE IBC OR MOST CURRENT EDITIONS OF THE FOLLOWING <ul> <li>a. NFPA 13</li> <li>b. NFPA 14</li> <li>c. NFPA 20</li> <li>d. NFPA 24</li> </ul> </li> </ul>	
HEIR	<ul> <li>e. NFPA 25</li> <li>2. 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</li> </ul>	
RVICE _ARM	<ul> <li>PROJECT, AS SHOWN ON THE DRAWINGS, PLUS AS REQUIRED BY NFPA 13 AND THE AUTHORITY HAVING JURISDICTION (AHJ).</li> <li>3. 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.</li> </ul>	
AINED	<ul> <li>4. 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</li> </ul>	· · · · · · · · · · · · · · · · · · ·
	<ul> <li>OF BID.</li> <li>5. 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.</li> </ul>	•
PERS CY NED	<ul> <li>6. THE FIRE PROECTION BID IS A DESIGN/BUILD CONTRACT. BEFORE SUBMITTING THE BID, THE CONTRACTOR SHALL VISIT THE SITE AND BECOME THOUROUGHLY 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.</li> </ul>	# P501 X #
	7. 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.	#
	8. 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 12 MONTHS OLD FROM THE DATE OF CONSTRUCTION.	/#_ AFF
	<ul> <li>9. 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).</li> </ul>	AHJ AP BOP
	10. 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.	DIA DN
Ê	<ol> <li>SUBMIT ACCURATE AS-BUILT DRAWINGS TO THE ENGINEER AND OWNER.</li> <li>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.</li> </ol>	EX OR EXIST FFE GPH
	13. THESE PLANS ARE DIAGRAMMATIC IN NATURE SINCE THE ONLY AVAILABLE INFORMATION HAS BEEN OBTAINED FROM EXISTING PLANS, SPECIFICATIONS, AND FILED 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.	GPM HP IE OR INV. ELE NC
SPRINKLER HEAD	14. 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.	NTS PSI
	15. 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.	RPM RI
	16. FURNISH AND INSTALL TAMPER SWITCHES ON ALL INDICATING VALVES AND FLOW SWITCHES PER NFPA 13 REQUIREMENTS AND PER THE DESIGN DOCUMENTS BY THE CONTRACTOR.	SOV TDH
	17. 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.	VIF
	18. ALL OPENINGS THROUGH FIRE RATED FLOORS, WALLS, OR PARTITIONS SHALL BE FIRE STOPPED WITH UL RATED ASSEMBLIES OF EQUAL OR GREATER FIRE RATING. REFER TO FIRE STOPPING NOTES FOR ADDITIONAL INFORMATION.	
	19. COORDINATE WITH STRUCTURAL ENGINEER WHEN SAW-CUTTING THROUGH CONCRETE FLOOR OR WALL CONSTRUCTION. LEAVE SUFFICIENT REBAR EXPOSED TO TIE NEW REINFORCING REPLACEMENT CONCRETE AND/OR OTHER STRUCTURAL ATTACHMENTS FOR NEW CONSTRUCTION.	
	20. 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.	
	21. SPRINKLERS SHALL BE LOCATED IN THE CENTER OF CEILING TILES, COORDINATE FINAL LAYOUT WITH ARCHITECT, AND OTHER DISCIPLINES.	
	<ol> <li>EXTENDED COVERAGE SPRINKLERS ARE PERMITTED. CONTRACTOR SHALL VERIFY ADDITIONAL PRESSURE REQUIREMENTS IF THIS TYPE IS SELECTED.</li> <li>THE SPRINKLER CONTRACTOR SHALL OBTAIN AND UTILIZE THE ARCHITECTURAL REFLECTED CEILING PLAN FOR</li> </ol>	
	THE LOCATING OF SPRINKLER HEADS. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR CEILING DEVICE LOCATIONS AND THE SPECIFICATIONS FOR COORDINATION DRAWING REQUIREMENTS.	
	24. PIPING SHALL BE INSTALLED AT LEAST 12" ABOVE FINISHED CEILING ELEVATION TO ALLOW FOR SUITABLE ACCESS ABOVE CEILING.	
	<ol> <li>INSTALL NO PIPING IN A LOCATION OR MANNER WHICH WILL ALLOW FREEZING.</li> <li>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.</li> </ol>	
	27. 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.	
	28. ADVISE THE ENGINEERS OF ANY CONFLICTS, ERRORS, OMISSIONS, ETC. AT LEAST 10 DAYS PRIOR TO BID DATE, TO ALLOW CLARIFICATION BY WRITTEN ADDENDUM.	
	29. IF SEISMIC BRACING IS REQUIRED, FIRE PROTECTION CONTRACTOR SHALL FURNISH AND INSTALL ALL END OF BRANCH LINE RESTRAINTS PER NFPA 13.	
	30. 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.	
	<ul> <li>31. WHEN WORK REQUIRES TEMPORARY INTERRUPTIONS OF FIRE PROTECTION SERVICES OR UTILITIES THE FOLLOWING ACTIONS WILL BE TAKEN: <ul> <li>A. COORDINATION WITH MAINTENANCE PERSONNEL TO SHUT OF SERVICES AT NEAREST MAIN.</li> <li>B. PROVIDE TEMPORARY AND ACCESSIBLE ISOLATION VALVES CLOSE TO THE POINT OF WORK.</li> <li>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.</li> <li>D. WORK INTERFERING WITH OPERATION OF DOWNTIME WILL BE SCHEDULED AFTER CONSULTATION WITH AND PERMISSION GIVEN BY OWNER [10] DAYS PRIOR TO ANTICIPATED INTERRUPTION OF SYSTEMS.</li> <li>E. SUCH WORK MAY BE REQUIRED TO BE PERFORMED OUTSIDE OF NORMAL WORKING HOURS.</li> <li>F. REFER TO FIRE WATCH NOTES FOR DISRUPTION OF FIRE SPRINKLER SYSTEMS IN OCCUPIED BUILDINGS WHEN DISRUPTION EXCEEDS 4 HOURS.</li> </ul> </li> </ul>	

ARE USED FOR THIS PROJECT	<b>ф</b> ааv	AIR VENT (AUTOMATIC)
	E F	
DIRECTION OF FLOW		DOUBLE CHECK VALVE ASSEMBLY
BRANCH CONNECTION, BOTTOM	FT	DRY PIPE VALVE
BRANCH CONNECTION, TOP		ELECTRONIC SUPERVISED INDICATING VALVE
ELBOW, TURNED DOWN	<u> </u>	FIRE DEPARTMENT VALVE (FDV)
LBOW TURNED UP	FW	- FLOW SWITCH
SHUTOFF VALVE	<u>`</u>	- PREACTION VALVE
CHECK VALVE	<u>_</u>	
RESSURE REDUCING VALVE		- PRESSURE RELIEF VALVE
RESSURE GAUGE	FV M	SOLENOID VALVE
INION	D	- DRAIN LINE
IPING CAP	DRY	- DRY PIPE
XISTING PIPING TO BE REMOVED	F	- FIRE MAIN (BULK)
IATCH LINE	SPR	- SPRINKLER MAIN/BRANCH PIPING
ONNECTION TO EXISTING	Y	DRIP CONNECTION
	<b>*</b>	FIRE DEPARTMENT CONNECTION-FREE STANDING
ETAIL DESIGNATION	<u></u>	FIRE DEPARTMENT CONNECTION-WALL MOUNT
SER DESIGNATION	<del></del>	FLUSH TYPE FIRE DEPARTMENT INLET CONNECTION
ED NOTE		FIRE PUMP TEST HEADER-WALL MOUNT
ISION NOTE	٦. ٦.	FIRE PUMP TEST HEADER-FREE STANDING
	• •	EXSTING SPRINKLER HEAD
		EXISTING SPRINKLER HEAD TO BE REMOVED
	⊗ ⊚ ● ●	SPRINKLER HEAD
		SIDEWALL SPRINKLER HEAD
DTTOM OF PIPE		PIPING TO BE DEMOLISHED
METER	AP	ACCESS PANEL
WN	AF	AIR COMPRESSOR
STING	AC	AUTOMATIC SPRINKLERS
ISHED FLOOR ELEVATION	BFP	BACKFLOW PREVENTER
LLONS PER HOUR		
LLONS PER MINUTE	BTC	BRANCH TO CONNECTION
RSEPOWER	CI	
ERT ELEVATION	DCVA	
RMALLY CLOSED	DPV	DRY PIPE VALVE
T TO SCALE	DSP	DRY STANDPIPE PIPING
UNDS PER SQUARE INCH	DSV	DRY STANDPIPE VALVE
VOLUTIONS PER MINUTE	FDC	FIRE DPARTMENT CONNECTION
UGH-IN	FDV	FIRE DEPARTMENT VALVE
UTOFF VALVE	FEC	FIRE EXTINGUISHER CABINET
TAL DYNAMIC HEAD	FHC	FIRE HOSE CABINET
RIFY IN FIELD	FP	FIRE PUMP

JP

JPC

NAS

NIC

PIV

SP

ΤS

#### FIRE STOPPING NOTES

JOCKEY PUMP

NOT IN CONTRACT

SUMP PUMP

TAMPER SWITCH

POST INDICATOR VALVE

JOCKEY PUMP CONTROLLER

NO AUTOMATIC SPRINKLERS

. 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, ANNULAR SPACE REQUIREMENTS, AND FIRE RATING INVOLVED FOR EACH SEPARATE INSTANCE.

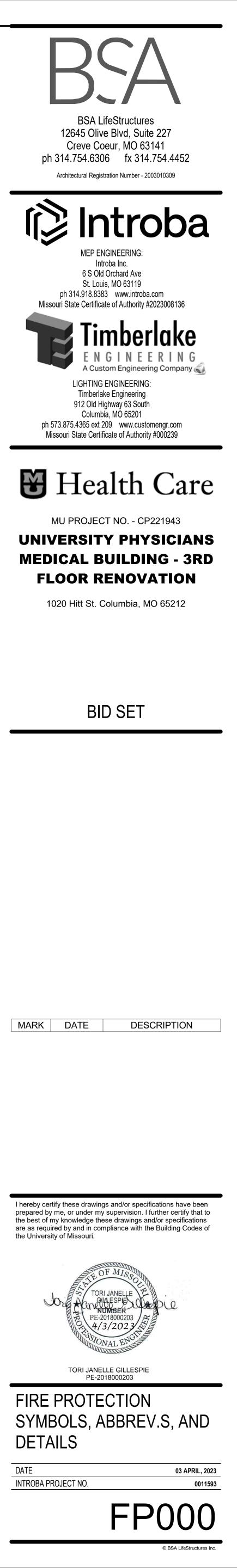
2. FOR SINGLE PENETRATIONS: A READY-TO-USE LATEX BASED INTUMESCENT SEALANT IS REQUIRED TO MAINTAIN THE FIRE RATING OF THE ASSEMBLY PENETRATED. THE SEALANT MUST HAVE UL LISTING FOR BOTH SLEEVED AND NON-SLEEVED APPLICATIONS.

3. 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.

4. MANUFACTURERS: JOHNS MANVILLE INTERNATIONAL, 3M BRAND, CSD SEALING SYSTEMS, HILTI, CIBA-GEIGY, HEAVY-DUTY/NEALSON. REFER TO DIVISION 7 FOR FURTHER REQUIREMENTS.

#### FIRE PROTECTION DEMOLITION NOTES

1.	PROTECT PIPING WHICH IS NOT TO BE REMOVED FROM DAMAGE, DIRT AND DEBRIS.
2.	ALL FIRE EQUIPMENT AND MATERIALS NOT CLAIMED BY THE OWNER SHALL BE REMOVED FROM THE PREMISES AND PROPERLY DISPOSED OF BY THE DEMOLITION CONTRACTOR.
3.	THE CONTRACTOR SHALL PLUG OR CAP ALL PIPING OUTLETS NOT INTENDED FOR REUSE.
4.	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.
5.	IF HAZARDOUS MATERIALS ARE ENCOUNTERED DURING DEMOLITION OPERATIONS, THE CONTRACTOR WILL NOTIFY BUILDING OWNER OF THE HAZARDOUS MATERIAL.
6.	ARCHITECTURAL DEMOLITION DRAWINGS AND SPECIFICATIONS SHALL BE READ IN CONJUNCTION WITH THESE DRAWINGS.
7.	THE CONTRACTOR SHALL COORDINATE DEMOLITION WORK WITH PROJECT'S PHASING SCHEDULE PRIOR TO ANY WORK
8.	ANY GALVANIZED SPRINKLER PIPING FOUND USED ON THE EXISTING SPRINKLER SYSTEM IN SCOPE TO BE DEMOLISHED AND REPLACED WITH SCHEDULE 40 BLACK STEEL PIPE.



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ESIGNED Designer RAWN Author

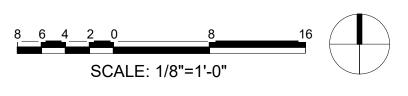


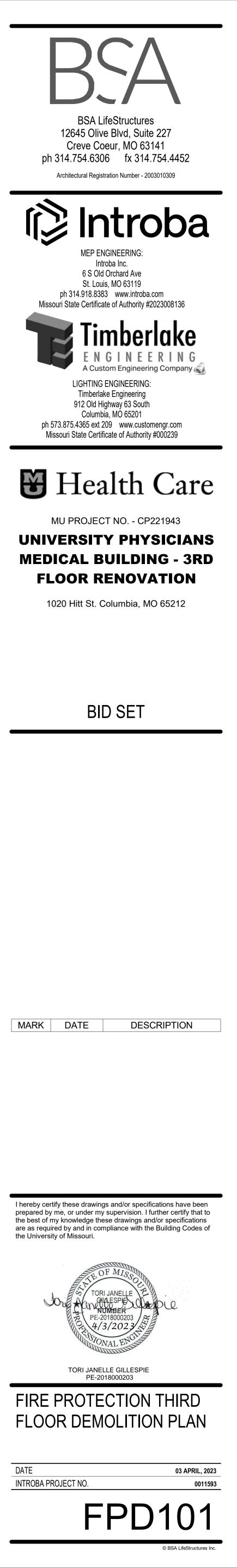


#### GENERAL NOTES

- A. FIRE SPRINKLER SYSTEM OUTAGES SHALL BE LIMITED IN TIME AND APPROVED BY UMHC.
- B. ONLY SCHEDULE 40 PIPING SHALL BE USED. CONTRACTOR SHALL VERIFY SPRINKLER PIPING SCHEDULE AND NOTIFY OWNER BEFORE WORK COMMENCES.
- C. ONLY FULLY CONCEALED-TYPE SPRINKLER HEADS SHALL BE USED.
- D. COORDINATE ALL SPRINKLER HEAD LOCATIONS WITH CEILING LAYOUT, NEW ARCHITECTURAL FEATURES, CEILING-MOUNTED DEVICES, AND ACROSS ALL DISCIPLINES.
- E. FLEXIBLE SPRINKLER HEADS ARE ONLY ALLOWED FOR THE NEW SOUND BOOTHS. NO FLEXIBLE SPRINKLER HEADS ARE ALLOWED FOR ANY OTHER AREAS FOR THIS PROJECT.
- F. FIRE PROTECTION SHOP DRAWINGS TO BE PROVIDED, SIGNED AND SEALED BY A LICENSED FIRE PROTECTION ENGINEER IN THE STATE OF MISSOURI.
- G. A TEMPORARY FIRE PROTECTION METHOD SHALL BE PROVIDED DURING CONSTRUCTION WHILE CEILINGS ARE DOWN OR THE EXISTING SPRINKLER SYSTEM IS OFFLINE. A TEMPORARY FIRE PROTECTION METHOD COULD BE: a FIRE WATCH DURING NON-CONSTRUCTION HOURS
- a. FIRE WATCH DURING NON-CONSTRUCTION HOURS (MORE DETAILS OUTLINED ON SHEET FP000).
  b. SEPARATE NEW SPRINKLER SYSTEM FOR CONSTRUCTION AREA.
- c. MODIFIED EXISTING SPRINKLER SYSTEM FOR CONSTRUCTION AREA.
  ANY METHOD USED SHALL MEET THE AHJ REQUIREMENTS.
- H. ANY EXISTING GALVANIZED FIRE PROTECTION PIPING FOUND SERVING THE EXISTING SYSTEM TO BE REPLACED WITH SCHEUDLE 40 BLACK STEEL PIPE.

# # KEYED NOTES 1. EXISTING SPINKLER HEAD AND ARM-OVER PIPING TO BE DEMOLISHED BACK TO EXISTING BRANCH LINE.





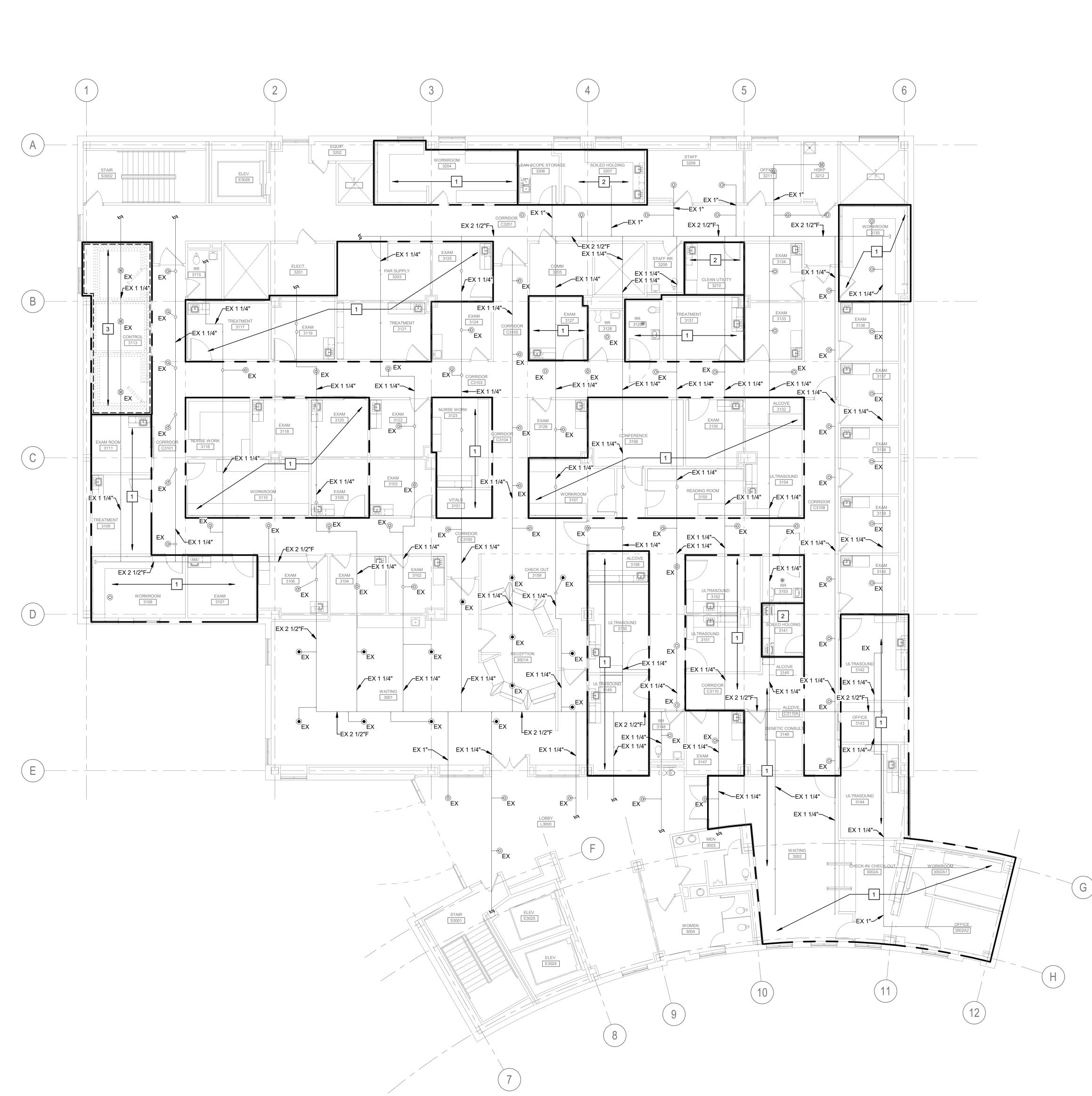
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SIGNED Designer AWN Author 

 FIRE PROTECTION - THIRD FLOOR NEW WORK PLAN

 1/8" = 1'-0"

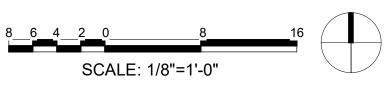


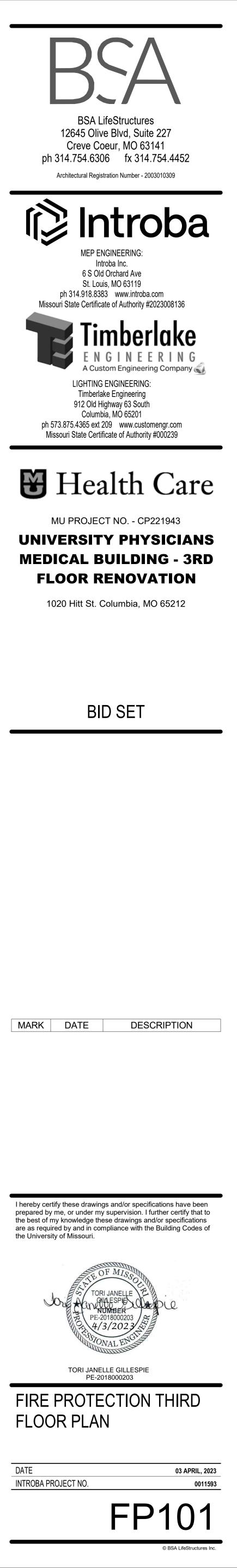
# GENERAL NOTES

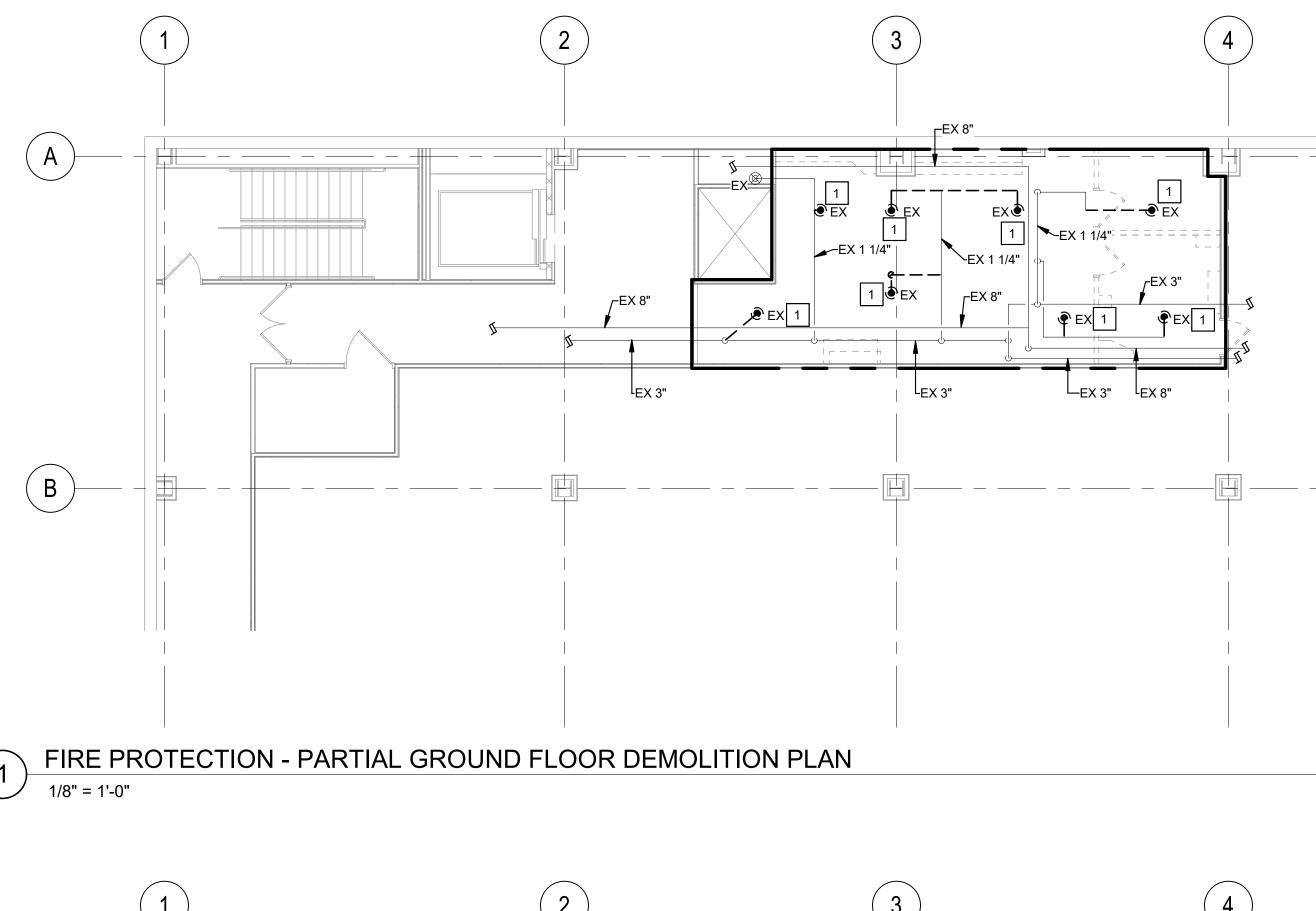
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- D. COORDINATE ALL SPRINKLER HEAD LOCATIONS WITH CEILING LAYOUT, NEW ARCHITECTURAL FEATURES, CEILING-MOUNTED DEVICES, AND ACROSS ALL DISCIPLINES.
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- H. ANY EXISTING GALVANIZED FIRE PROTECTION PIPING FOUND SERVING THE EXISTING SYSTEM TO BE REPLACED WITH SCHEUDLE 40 BLACK STEEL PIPE.

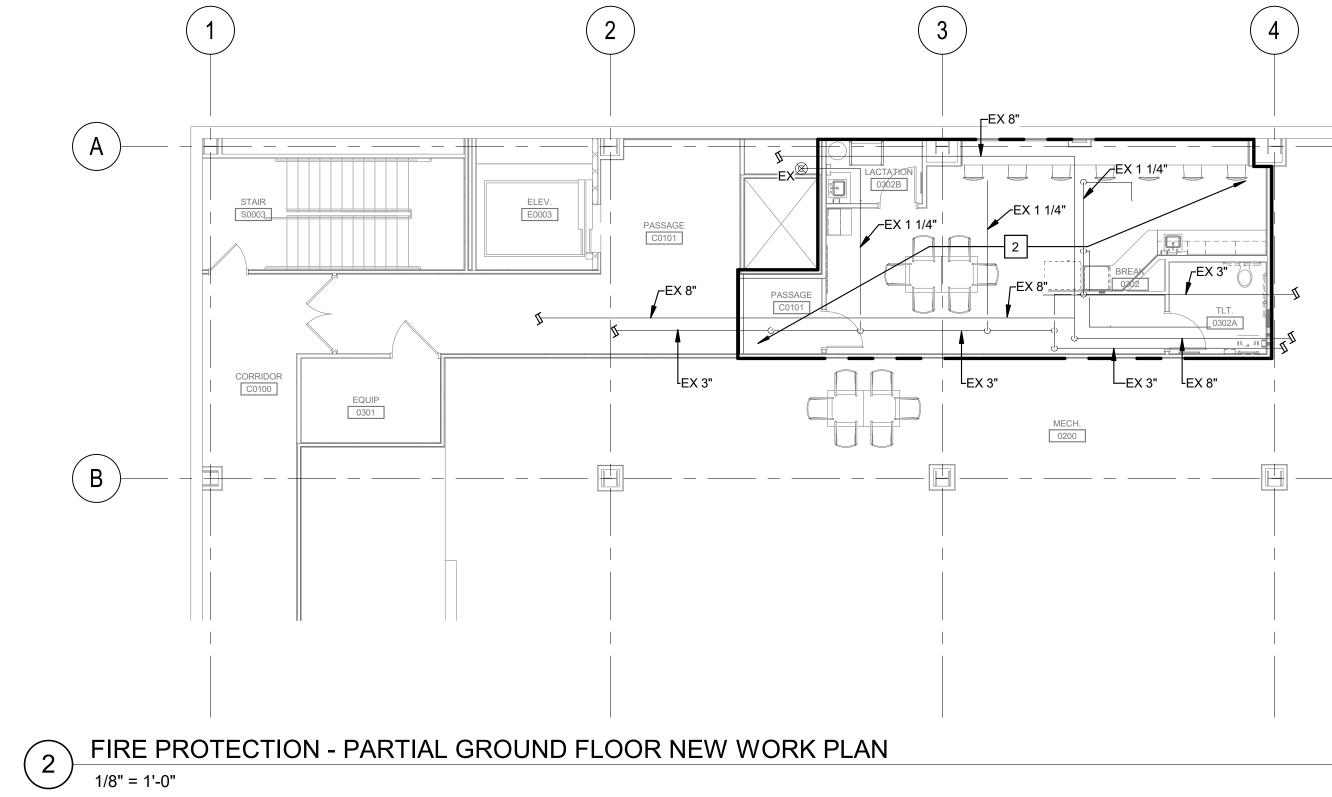
## **#** KEYED NOTES

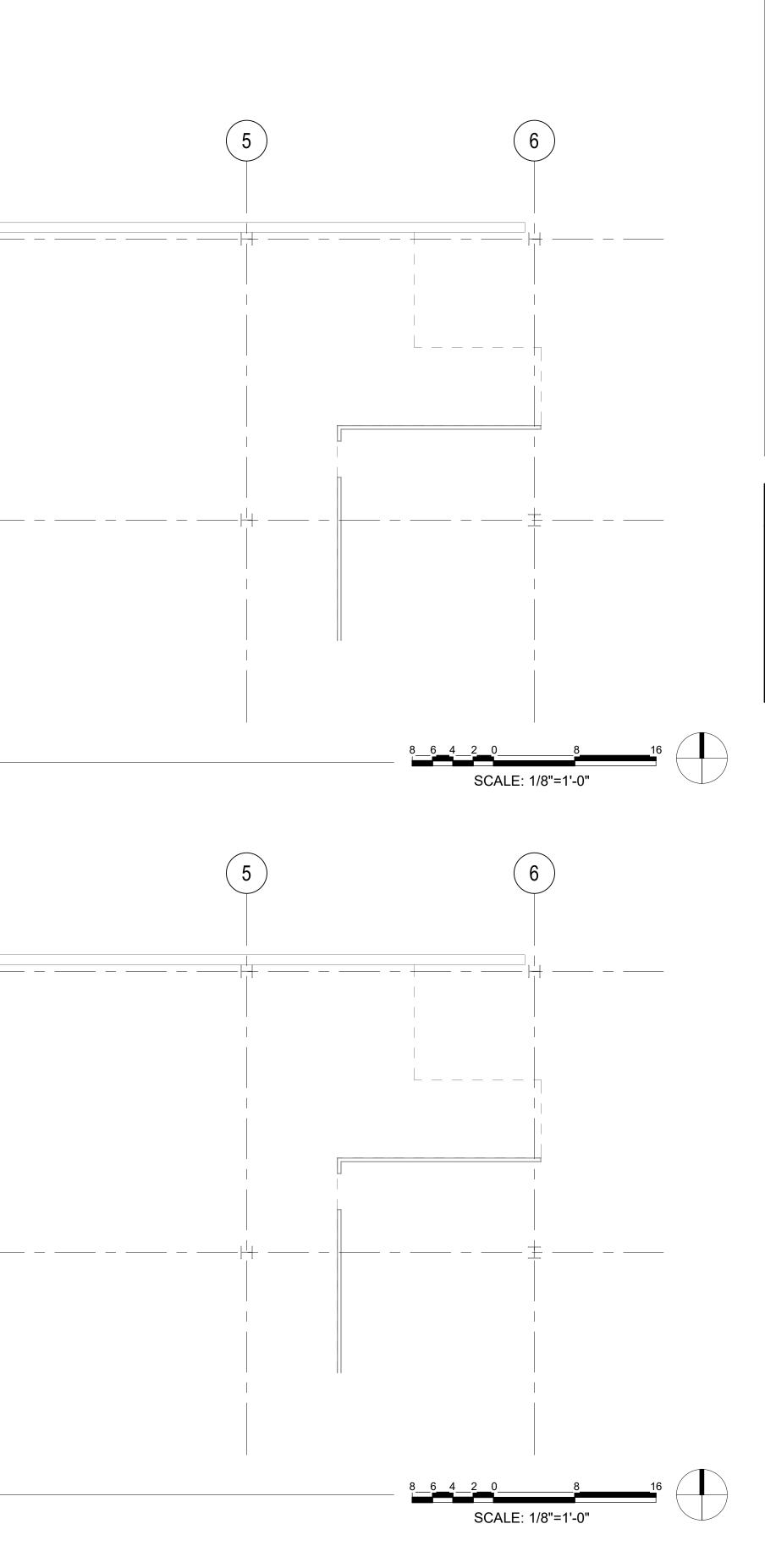
- 1. AREA TO BE CONSIDERED LIGHT HAZARD WITH A SPRINKLER DISCHARGE DENSITY OF 0.10 GPM/SQ.FT. FOR THE MOST HYDRAULICALLY REMOTE 1500 SQ.FT. AND A HOSE STREAM OF 100 GPM. CONTRACTOR SHALL PROVIDE A COMPLETE CODE COMPLIANT AUTOMATIC WET PIPE SYSTEM. SPRINKLER SPACING SHALL BE BASED ON LISTED VALUE AND DISTANCES ESTABLISHED BY NFPA AND FM.
- 2. THESE AREAS TO BE CONSIDERED ORDINARY HAZARD, GROUP 1 WITH A SPRINKLER DISCHARGE DENSITY OF 0.15 GPM/SQ.FT FOR THE MOST HYDRAULICALLY REMOTE 1500 SQ. FT. AND A HOSE STREAM OF 250 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.
- 3. THIS AREA TO CONTAIN NEW SOUND BOOTHS. AREA ABOVE SOUND BOOTHS TO BE PROTECTED BY SPRINKLERS. INTERIOR OF SOUND BOOTH TO BE PROTECTED BY FLEX SPRINKLER PIPE DROP.











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- CONSTRUCTION AREA. c. MODIFIED EXISTING SPRINKLER SYSTEM FOR CONSTRUCTION AREA. ANY METHOD USED SHALL MEET THE AHJ REQUIREMENTS.
- H. OBJECTS GREATER THAN 48" TO BE SPRINKLERED ABOVE AND BELOW.
- ANY EXISTING GALVANIZED FIRE PROTECTION PIPING FOUND SERVING THE EXISTING SYSTEM TO BE REPLACED WITH SCHEUDLE 40 BLACK STEEL PIPE.

#### **KEYED NOTES** #

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

