



Saint Luke's East Hospital

Saint Luke's ED OFFICE ADDITION 80 NE Saint Luke's Blvd Lee's Summit, MO 64086

P R O J E C T T E A M

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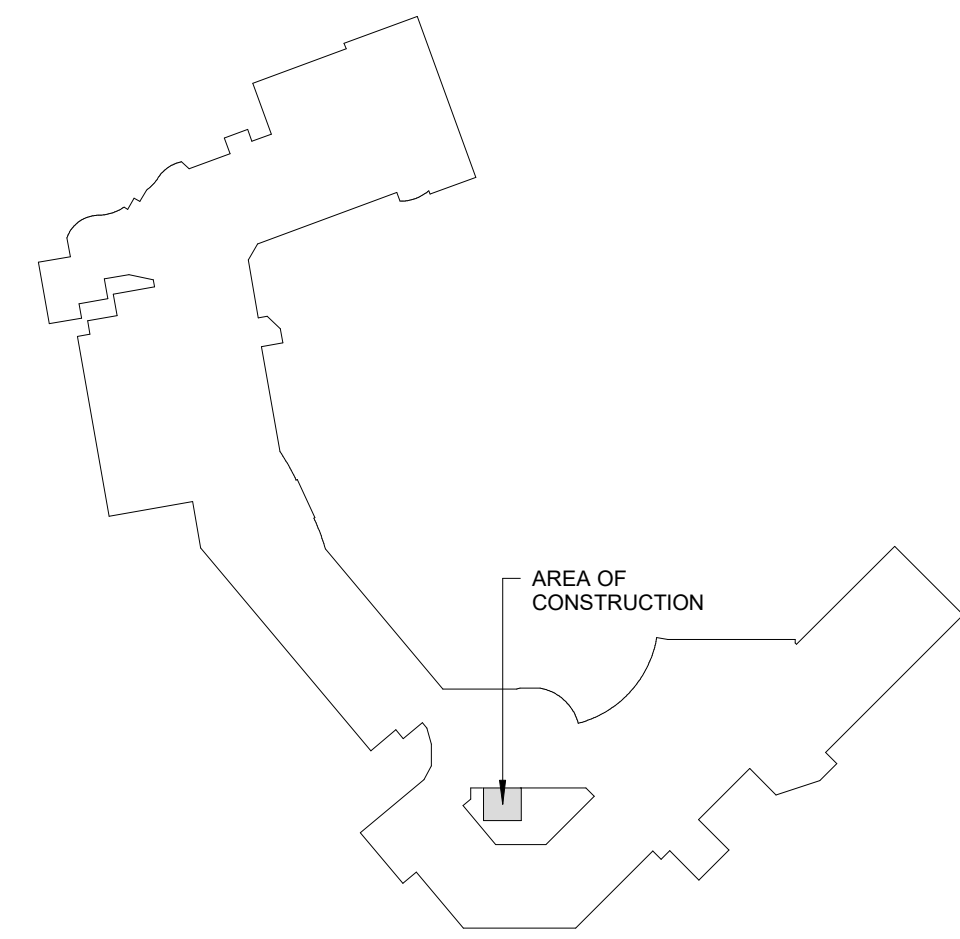
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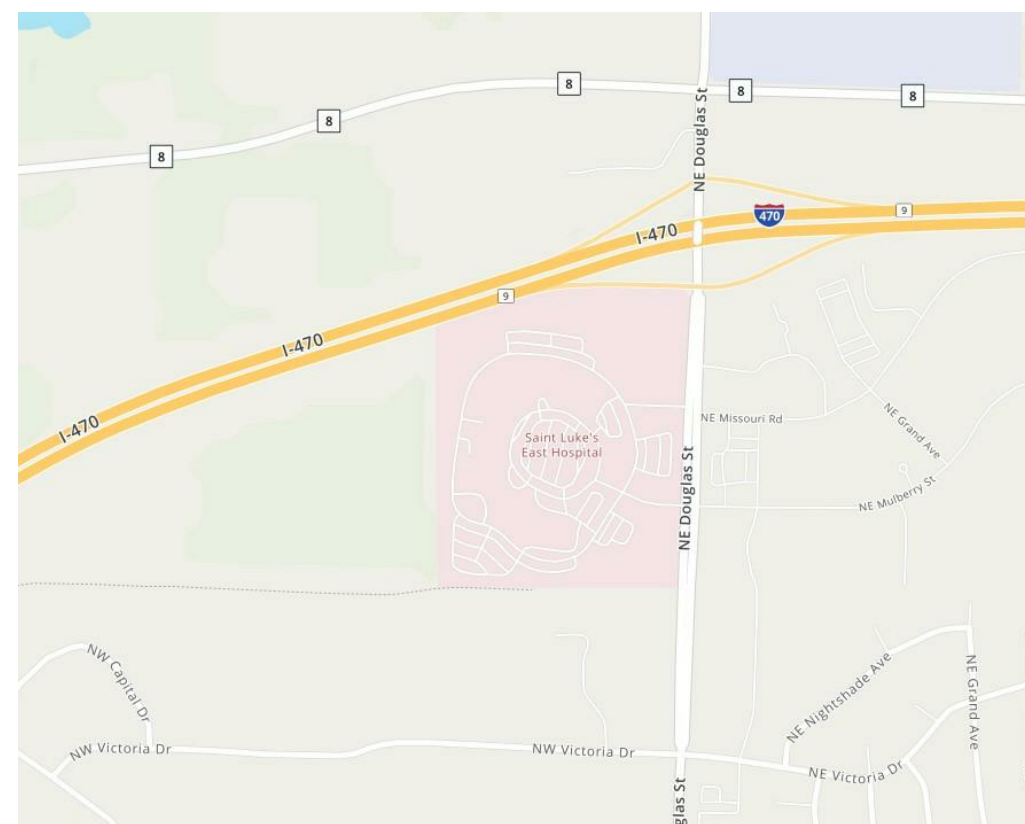
ABBREVIATIONS

AC.	ACOUSTIC/ACOUSTICAL	FLOR.	FLUORESCENT	PTD.	PAINTED
ADD.	ADDENDUM	FTG.	FOOTING	PG.	PAGE
ADDN.	ADDITION	FND.	FOUNDATION	PLAM.	PLASTIC LAMINATE
ABC	AGGREGATE BASE COURSE	FR.	FRAME	PR.	PAIR
ABF.	ABOVE FINISH FLOOR	F.H.C.	FIRE HOSE CAB.	PNL.	PANEL
AGG.	AGGREGATE	FV.	FIELD VERIFY	PTN.	PARTITION
AGC.	AIR CONDITIONING	GA.	GAUGE	PL.	PLATE
AL.	ALUMINUM	OL.	GLASS / GLAZING	PLBG.	PLUMBING
ALT.	ALTERNATE	GD.	GRADE	PLYWD.	PLYWOOD
A.B.	ANCHOR BOLT	G.	GRAM	PT.	POINT
&	AND	GRL.	GRILLE	P.S.I.	POUNDS PER SQ. IN.
ARCH.	ARCHITECT	GRD.	GRID	P.S.F.	POUNDS PER SQ. FT.
ASP.	ASPHALT	GND.	GROUND	P.C.	PRECAST
@	AT	G.S.	GALVANIZED STEEL	P.L.	PROPERTY LINE
ACT.	ACOUSTIC CEILING TILE/PANEL	GYP.	GYPSONUM	R.	RISER, RISERS
∠.	ANGLE	GWB/G.B.	GYPSONUM BOARD	RAD.	RADIUS
BLKG.	BLOCKING	H.R.	HAND RAIL	R.D.	ROOF DRAIN
BSMT.	BASEMENT	HDN.	HARDENER	RB.	RESILIENT BASE
BM.	BEAM	HDW.	HARDWARE	REC.	REFER TO
B.M.	BENCHMARK	HDWD.	HARDWOOD	REG.	REGISTER
BD.	BOARD	HTR.	HEATER	RECD.	REQUIRED
B.O.	BOTTOM OF	HT.	HEIGHT	REV.	REVISION
BLDG.	BUILDING	H.P.	HIGH POINT	RFG.	ROUGH
CABT.	CABINET	H.M.	HOLLOW METAL	RGH.	ROUGH
C.I.P.	CAST IN PLACE	HORIZ.	HORIZONTAL	RM.	ROOM
C.B.	CATCH BASIN	H.B.	HOSE BIB	RND.	ROUND
CLG.	CEILING	H.W.	HOT WATER	R.O.	ROUGH OPENING
CEM.	CEMENT/CEMENTITIOUS	IN.	INCH / INCHES	SCHED.	SCHEDULE
CG.	CENTIGRAM	I.D.	INSIDE DIAMETER	S.C.	SEALED CONCRETE
CM	CENTIMETER	INSUL.	INSULATION	SCR.	SCREW
CL	CENTER LINE	INT.	INTERIOR	SECT.	SECTION
CER.	CERAMIC	INV.	INVERT	SEL.	SELECT
C.T.	CERAMIC TILE	JAN.	JANITOR	SHG.	SHEATHING
CHAN.	CHANNEL	JT.	JOINT	SHT.	SHEET
C.	CHANNEL	JST.	JOIST	SDG.	SIDING
CLR.	CLEAR	K.P.	KICK PLATE	SIM.	SIMILAR
C.O.	CLEAN OUT	LAM.	LAMINATED	SLDG.	SLIDING
CLOS.	CLOSET	LB.	POUND	SM.	SMOOTH
COL.	COLUMN	LDO.	LANDING	SPEC.	SPECIFICATION
CONC.	CONCRETE	LTH.	LATH	SQ.	SQUARE
CONN.	CONNECTION	LAV.	LAVATORY	ST.	STAINED
CONST.	CONSTRUCTION	LG.	LENGTH	STD.	STANDARD
C.J.	CONTROL JOINT	LOC.	LOCATION	S.S. /	STAINLESS STEEL
CONT.	CONTINUOUS	LT.	LIGHT	STRLC.	STRUCTURE
CONTR.	CONTRACTOR	LW.C.	LIGHT WEIGHT CONCRETE	SUSP.	SUSPENDED
CORG.	CORRUGATED	LVR.	LOUVER	SW.	SWITCHBOARD
CTR.	COUNTER	LOC.	LOCATION	SYS.	SYSTEM
CTBK.	COUNTERBANK	M.O.	MASONRY OPENING	T.	TREAD
C.M.U.	CONCRETE MASONRY UNIT	M.F.	MATERIAL MANUFACTURER	T.C.	TOP OF CURB
D.P.	DAMP PROOFING	MFR.	MARKER BOARD	T.G.	TEMPERED GLASS
DB.	DECIBEL	MB.	MAXIMUM	T.O.	TOP OF
DIAG.	DIAGONAL	MECH.	MECHANICAL	T.S.D.	TOP OF STEEL DECK
DIAM.	DIAMETER	MTL.	METAL	T.W.	TEACHERS WARDROBE
DIM.	DIMENSION	MTL.	METAL LATH	TYP.	TYPICAL
DISP.	DISPENSER	M.L.	METER	U.O.N.	UNLESS OTHERWISE NOTED
DWL.	DOWEL	M.	METER	V.	VENT
DN.	DOWN	M.D.G.	MOLDING	VERT.	VERTICAL
D.S.	DOWNSPOUT	MULL.	MULLION	V.G.	VERTICAL GRAIN
DWG.	DRAWING	N.G.	NATURAL GRADE	VEST.	VESTIBULE
EA.	EACH	NOM.	NOMINAL	V.C.T.	VINYL COMPOSITION TILE
ELEC.	ELECTRIC	N.I.C.	NOT IN CONTRACT	VCP.	VITREOUS CLAY PIPE
E.W.C.	ELECTRIC WATER COOLER	N.T.S.	NOT TO SCALE	W.W.M.	WELDED WIRE MESH
EL.	ELEVATION	NO. / #	NUMBER	W.C.	WATER CLOSET
ELEV.	ELEVATOR	OBS.	OBSOLETE	W.H.	WATER HEATER
EQ.	EQUIPMENT	O.C.	ON CENTER	W.F.	WIDE FLANGE
EQUIP.	EQUIPMENT	OPNG.	OPENING	WI.	WITH
EXH.	EXHAUST	O.A.	OVERALL	W/O.	WITHOUT
EXPAN.	EXPANSION	O.D.	OUTSIDE DIAMETER	WD.	WOOD
E.J.	EXPANSION JOINT	O.F.S.	OVERFLOW SCUPPER	WOW.	WINDOW
EXIST.	EXISTING	O.F.D.	OVERFLOW DRAIN	W.W.	WINDOW WALL
EXT.	EXTERIOR	O.H.D.	OVERHEAD DOOR		
FT.	FEET / FOOT				
FIN.	FINISH				
FIXT.	FIXTURE				
FL.	FLASHING				
FLR.	FLOOR				
F.D.	FLOOR DRAIN				

LOCATION PLAN



VICINITY PLAN



GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH A.D.A. REQUIREMENTS AND ALL APPLICABLE LOCAL, STATE, AND FEDERAL BUILDING CODES AND REGULATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY BUILDING PERMITS.
- THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL FIELD VERIFY EXISTING CONDITIONS AND NOTIFY THE ARCHITECT OF ANY INCONSISTENCIES OR DISCREPANCIES WITH THE PROJECT DOCUMENTS. ACCESS TO THE SITE AND/OR SPACE UNDER CONSTRUCTION DURING BIDDING AND CONSTRUCTION SHALL BE COORDINATED WITH THE OWNER.
- DO NOT SCALE DRAWINGS.
- THE WORD "ALIGN" AS USED IN THESE DOCUMENTS SHALL SUPERSEDE ANY DIMENSIONAL INFORMATION GIVEN.
- TYPICAL DIMENSIONS ARE TO FACE OF CONCRETE, DRYWALL, CURTAIN WALL, ETC., OR TO COLUMN CENTERLINE. DIMENSIONS AT WINDOWS ARE TYPICALLY TO FACE OF FRAME. REFER TO PLAN DETAILS FOR ADDITIONAL INFORMATION.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR EXAMINING AND CONFIRMING ALL SUBSTRATE CONDITIONS WHERE NEW MATERIALS ARE APPLIED. THE SUBSTRATE SHALL BE SMOOTH AND FREE OF DEFECTS AND SHALL CONFORM TO THE REQUIREMENTS OF THE FINISHED MATERIAL MANUFACTURERS RECOMMENDATIONS.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN-UP.
- CONTRACTOR TO PROVIDE ALL REQUIRED LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO MEET AND COMPLETE THE REQUIREMENTS OF THE NEW CONSTRUCTION.
- IF MATERIAL SUSPECTED OF CONTAINING HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT DISTURB. IMMEDIATELY NOTIFY ARCHITECT AND OWNER. OWNER SHALL COORDINATE WITH CONTRACTOR ON THE REMOVAL OF SUCH ITEMS. WORK MAY PROCEED AFTER HAZARDOUS MATERIAL HAS BEEN REMOVED.
- UPON VERIFICATION OF THE EXISTING CONDITIONS, THE CONTRACTOR SHALL DETERMINE AND RECOMMEND THE BEST ACTION TO MINIMIZE THE EXTENT OF REMOVAL WORK FOR INSTALLATION OF NEW WORK.

SHEET INDEX - OFFICE

SHEET NUMBER	SHEET NAME
ARCHITECTURE	
A0.1.2	COVER SHEET
A0.2.2	LIFE SAFETY PLAN
A2.1.2	OFFICE PLANS
ADD.1.2	OFFICE DEMO AND DETAILS
MECHANICAL	
M000.2	MECHANICAL COVER SHEET
M001.2	FIRST FLOOR - MECH PIPING
M211.2	FIRST FLOOR - VENTILATION
M410.2	VENTILATION AND PIPING DETAILS
M510.2	SCHEDULES AND CONTROL DIAGRAMS
ELECTRICAL	
E000.2	ELECTRICAL COVERSHEET
E201.2	FIRST FLOOR - LIGHTING - OFFICES
E211.2	FIRST FLOOR - POWER - OFFICES
E221.2	FIRST FLOOR - SYSTEMS - OFFICES



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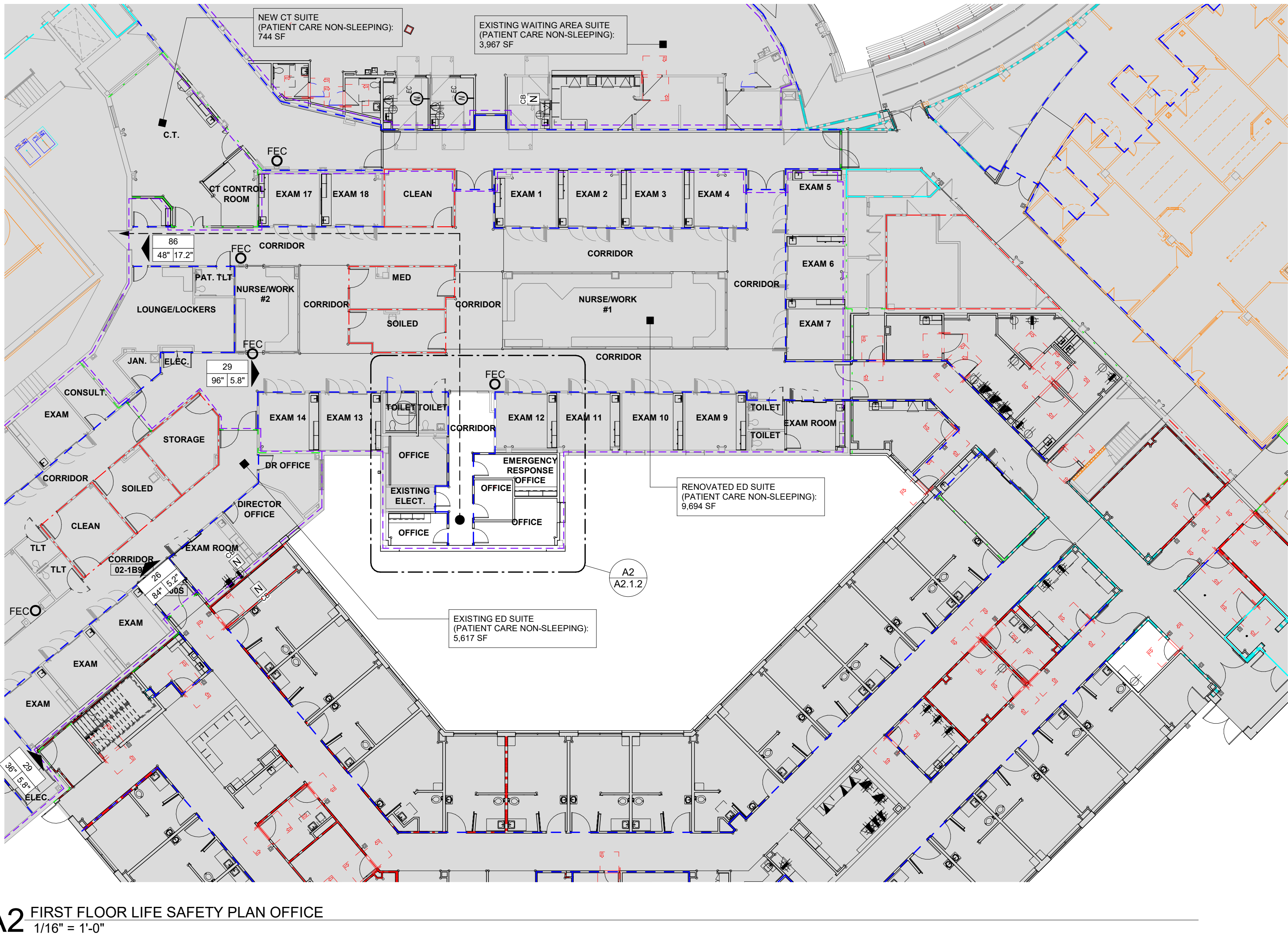
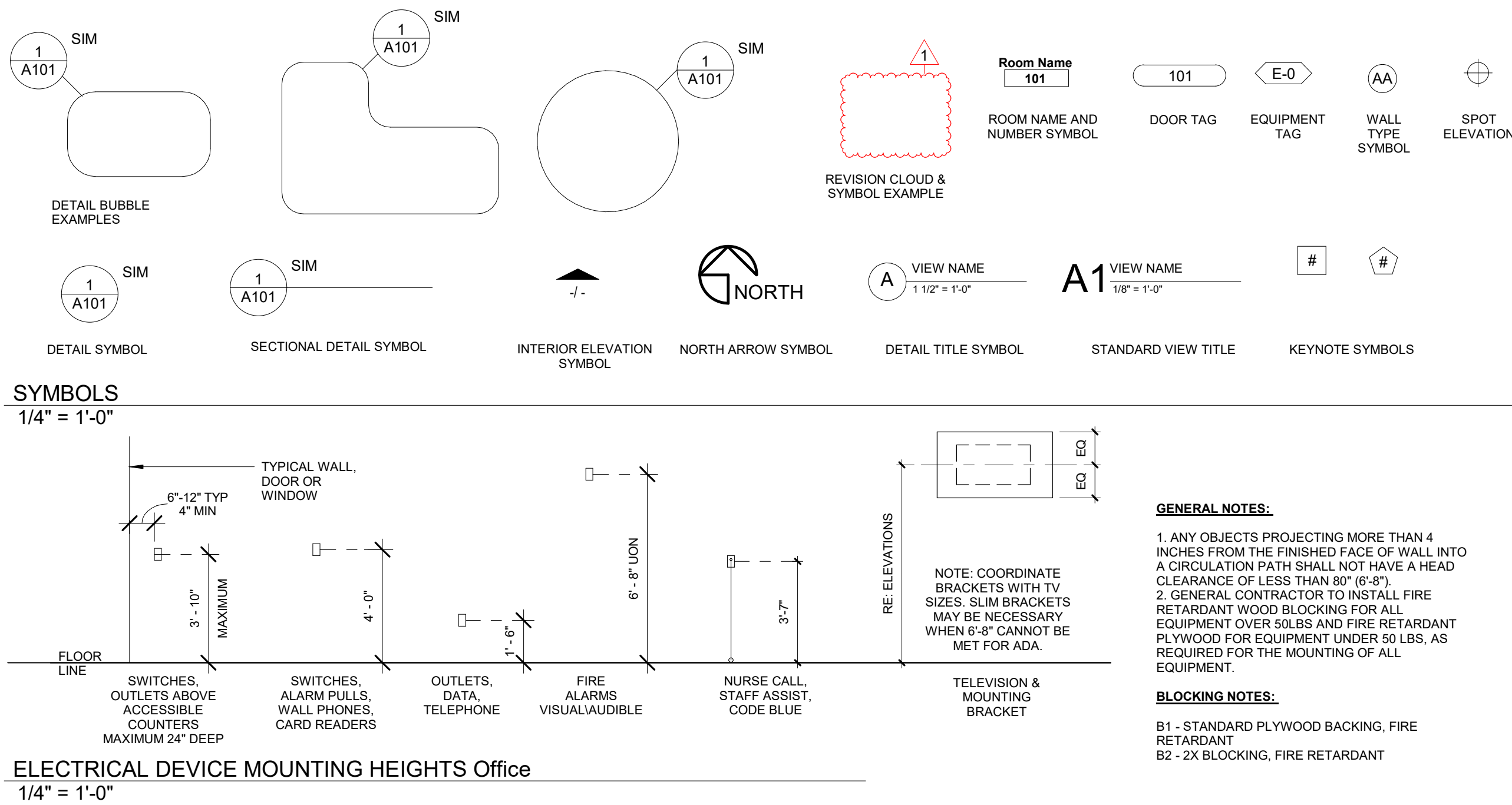
**Saint Luke's
East Hospital**
Saint Luke's ED Office Renovation
80 NE Saint Luke's Blvd
Lee's Summit, MO 64086

Date	11/12/21
Job Number	3-21024
Drawn By	Author
Checked By	Checker

Revision		
Number	Date	Description
7	12/10/21	ASI #5 Office



COVER SHEET

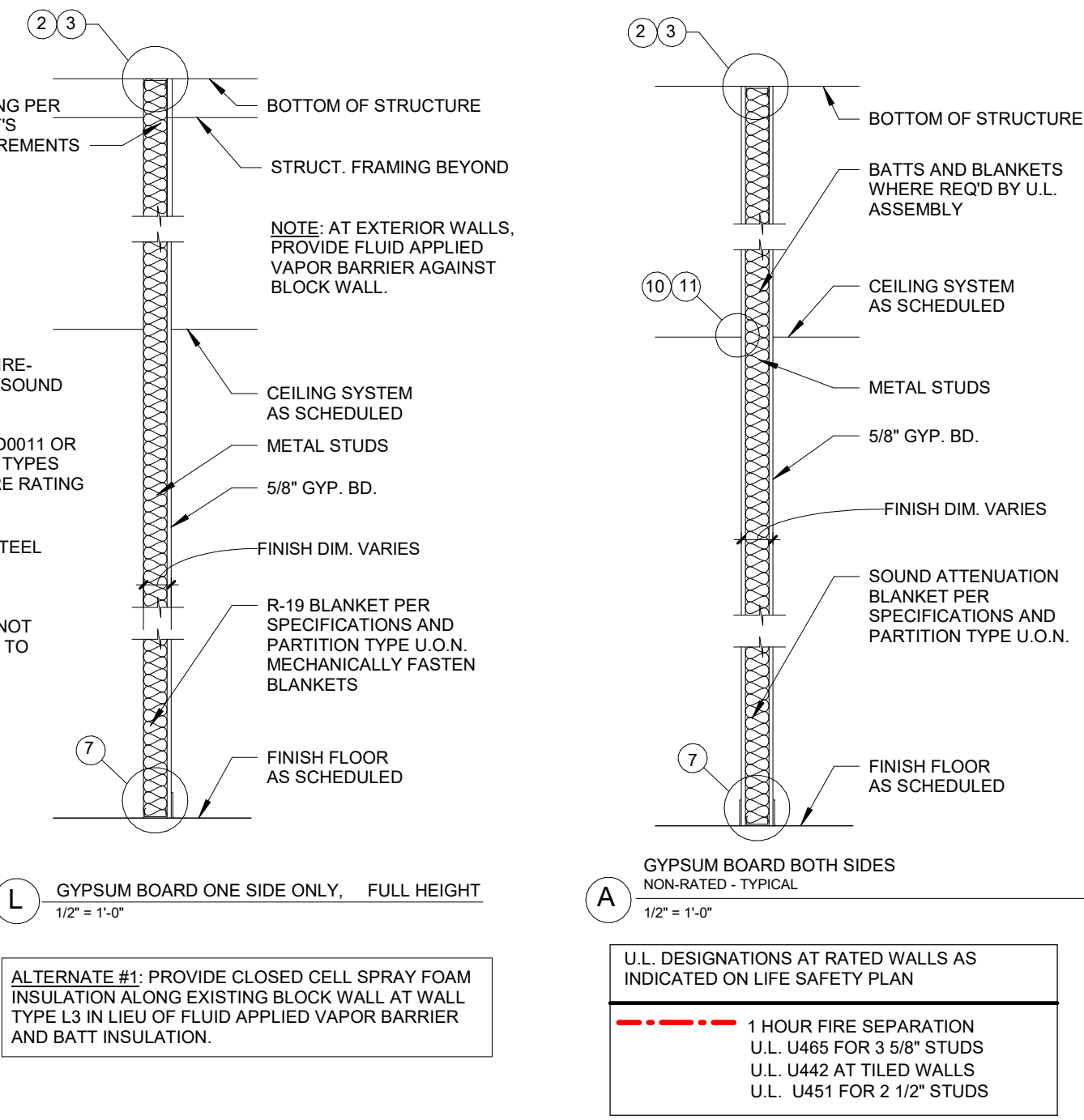


CODE SUMMARY	
Project Construction Purpose: Interior office renovation	
Project Address: Saint Luke's Lee's Summit 80 NW Saint Luke's Blvd Lee's Summit, MO 64063	
Code Information 2018 International Building Code 2018 International Plumbing Code 2018 International Mechanical Code 2018 International Fuel Gas Code 2018 International Fire Code 2017 National Electrical Code 2009 ICC/ANSI A117.1 as amended and adopted by the City of Lee's Summit State of Missouri Dept. of Health & Environment references the following codes: 2012 NFPA 101 Life Safety Code (LSC) 2014 FGI Guidelines for Design & Construction of Hospitals & Outpatient Facilities	
Owner Information Saint Luke's Lee's Summit 80 NW Saint Luke's Blvd Lee's Summit, MO 64063	
Designer Information ACI Boland Architects 1710 Wyandotte St. Kansas City, MO 64108 Phone: (816) 763-9600 Fax: (816) 763-9727	
Local Authority Responding Fire Service: Lee's Summit Fire Department Local Building Inspector: Lee's Summit, MO Codes Administration Department	
Type of Construction:	Type I-A - Section 602.2 (Type I - 332 Sprinklered - Section 18.1.6.1)
Area of Renovation:	650+- SF
Occupancy Group:	I-2 - Section 308.3
Occupant Load:	100 gross Table 1004.5 Total Square Footage: 650 SF / 100 = 7 occupants total
Required Fire Resistance Ratings (in hours) Per NFPA 101 A.9.7.1.2:	
Exterior Bearing Walls	3 HR
Interior Bearing Walls	3 HR
Primary Structural Frame	3 HR
Floor Construction	2 HR
Roof Construction	1 1/2 HR
Interior non-bearing walls	0 HR
Active Fire Safety Features: - Fire Alarm System - The fire alarm system is specified as an addressable type system. The device type and locations are per the applicable codes as well as ADA requirements. - Smoke Control System - All ductwork penetrating smoke rated walls will have a smoke or combination fire/smoke damper as indicated on construction documents. These dampers will close upon detection of smoke by the area smoke detectors or duct smoke detectors in the air handling units. - Fire Sprinkler System - Specified to be per NFPA 13. The sprinkler heads are specified to be quick response type. - Emergency Lighting and Power - Emergency lighting, life safety and critical loads will receive power from a backup generator located outside the main electrical room. - Illuminated Exit Signs Passive Fire Safety Features: - Smoke Compartments no greater than 22,500 SF	

PARTITION GENERAL NOTES

- UNLESS NOTED OTHERWISE, ALL INTERIOR METAL STUDS ARE 3 5/8" THICK. REFER TO SUFFIX SCHEDULE BELOW FOR LOCATIONS OF METAL STUDS OTHER THAN 3 5/8" THICK. NOTE: STUD THICKNESS (GAUGE) MUST CONFORM TO MANUFACTURER'S RECOMMENDATIONS FOR SPAN (HEIGHT OF STUD).
- WHERE THE PARTITION TYPE INDICATION IS SHOWN WITH A NUMERICAL SUFFIX, THE METAL STUD THICKNESS SHALL BE AS SCHEDULED BELOW:

SUFFIX	MTL. STUD THICKNESS
1	1-5/8" MTL. STUDS
2	2-1/2" MTL. STUDS
3	6" MTL. STUDS
- UNLESS NOTED OTHERWISE, ALL INTERIOR DRYWALL PARTITIONS INDICATED ON THE FLOOR PLAN DRAWING ARE TYPE 'A' PARTITIONS. WHERE OCCURS, RATINGS ARE AS INDICATED ON THE LIFE SAFETY PLANS.
- UNLESS NOTED OTHERWISE, ALL INTERIOR MASONRY PARTITIONS INDICATED ON THE FLOOR PLAN DRAWING ARE TYPE 'B' PARTITIONS. WHERE OCCURS, RATINGS ARE AS INDICATED ON THE LIFE SAFETY PLANS.
- ALL STUDS ARE CONTINUOUS FROM FLOOR STRUCTURE TO CEILING STRUCTURE UNLESS NOTED OTHERWISE.
- METAL STUDS ARE SPACED @ 16" O.C. MAX., UNLESS NOTED OTHERWISE.
- UNLESS NOTED OTHERWISE, ALL GYPSUM BOARD IS TO BE 5/8" THICK "FIRECODE".
- THE LOCATION OF A CHANGE IN THE PARTITION TYPE IS INDICATED BY A WALL TAG.
- THE CORRESPONDING RATED ASSEMBLIES ARE INDICATED BELOW THE PARTITION TYPES.
- PARTITION TYPE DESIGNATIONS ARE INDICATED ON THE FLOOR PLAN DRAWINGS.
- PARTITION TYPES DO NOT INCLUDE APPLIED FINISHES CALLED FOR IN THE ROOM FINISH SCHEDULE.
- AT PARTITION TYPES WHERE MTL. STUDS ARE EXPOSED ON ONE OR BOTH SIDES, CUT STUD 1/4" SHORT AND SCREW BOTH SIDES TO MTL. RUNNER TRACK.



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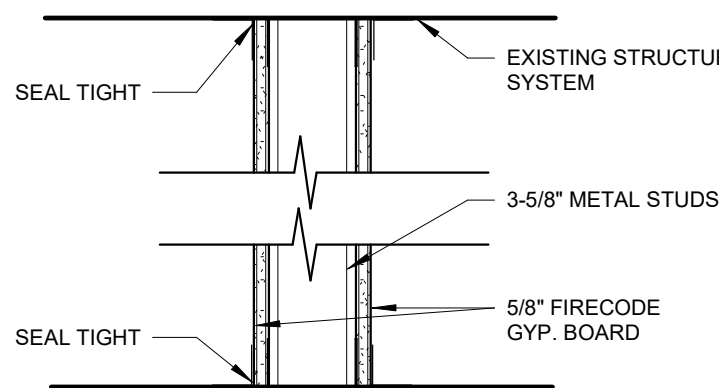
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7 12/10/21 ASI #5 Office

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7 — A2.1.2

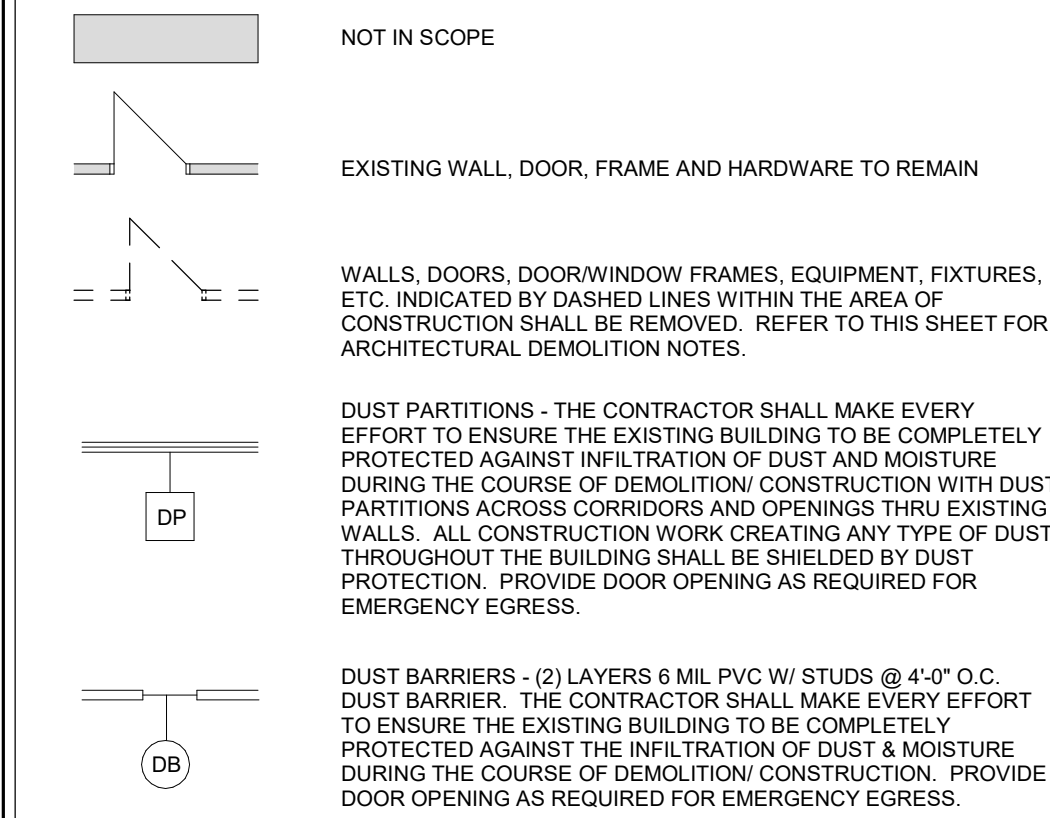


WHERE DUST PARTITIONS ARE TO REMAIN THROUGH CONSTRUCTION, THEY SHALL BE CONSTRUCTED OF 3-5/8\"/>

THE CONTRACTOR SHALL COVER AND SEAL IN A DUST-TIGHT MANNER ALL EXISTING OPENINGS, GRILLES, JOINTS AROUND DOORS AND FRAMES, ETC., WITH FIRE RETARDANT SHEET AND/OR TAPE AS APPROPRIATE WHERE SUCH OPENINGS, ETC., OCCUR IN EXISTING PARTITIONS SEPARATING EXISTING AREAS FROM CONSTRUCTION AREAS. THE CONTRACTOR SHALL MAINTAIN AND REPAIR ANY DUST BARRIERS AS DETERMINED BY, AND TO THE SATISFACTION OF, THE OWNER.

SMOKE TIGHT NON-COMBUSTIBLE CONSTRUCTION PARTITION
1 1/2" = 1'-0"

DEMOLITION LEGEND



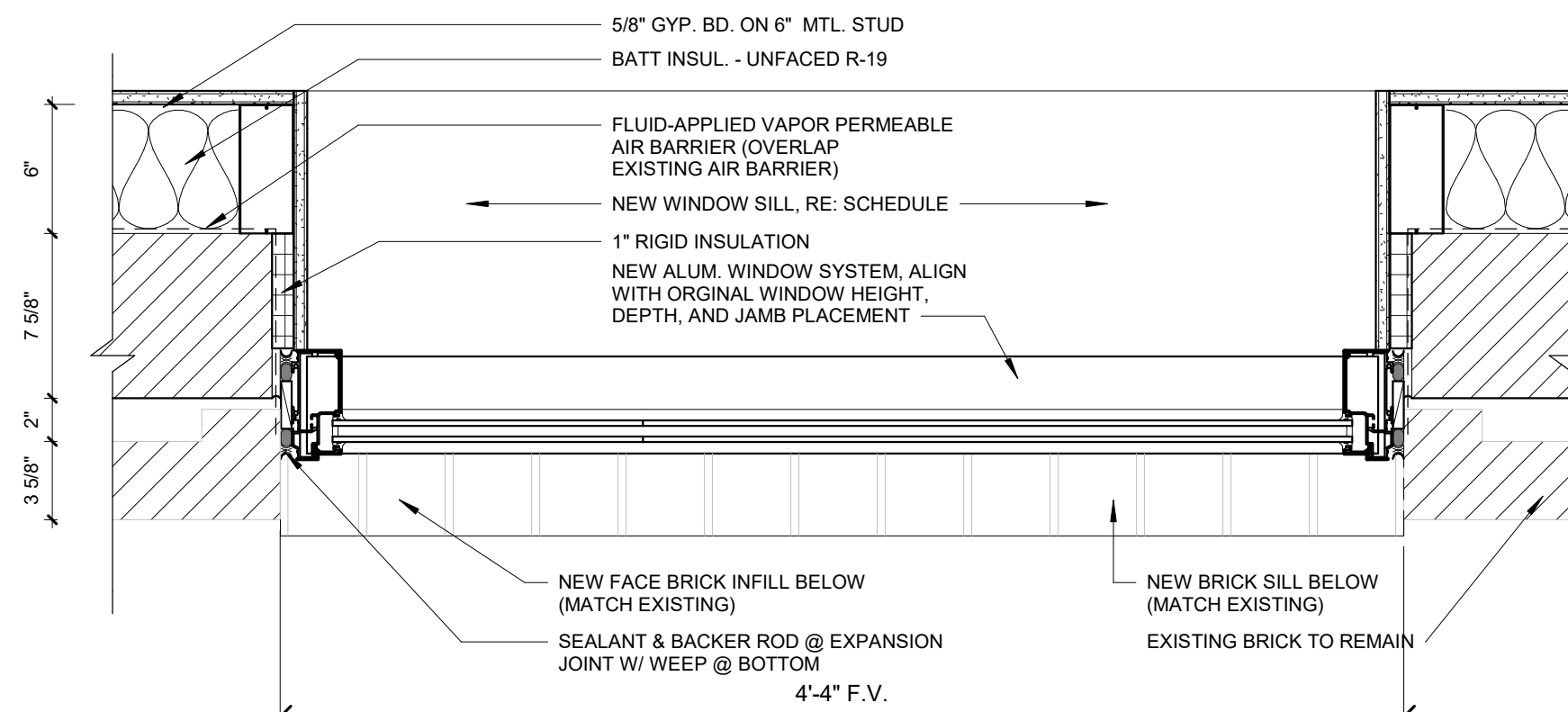
KEYNOTES - DEMO PLAN - OFFICE

NUMBER	COMMENTS
8	REMOVE CONCRETE PEDISTAL
9	REMOVE AND RELOCATE EXISTING HAM RADIO EQUIPMENT TO EMS BREAK ROOM, RE. ELECT. PLANS FOR FINAL LOCATION
10	REMOVE AND RELOCATE EXISTING EMERGENCY RADIO EQUIPMENT TO MECHANICAL PENTHOUSE, RE. ELECT. PLANS FOR FINAL LOCATION
11	REMOVE PORTION OF EXISTING WALL, FLOOR, BASE AND CEILING TO COORDINATE WITH NEW CONSTRUCTION
12	REMOVE EXISTING DOOR AND FRAME, VERIFY WITH OWNER IF DOOR OR HARDWARE NEEDS TO BE SALVAGED
13	PATCH AND PREP OPENING FOR NEW INFILL AND WINDOW
14	REMOVE EXISTING MISC. WALL MOUNTED ITEMS, COORDINATE WITH OWNER WHAT NEEDS TO BE SALVAGED
15	REMOVE EXISTING FLOOR, BASE, CEILING, AND LIGHTS TO COORDINATE WITH NEW CONSTRUCTION
16	REMOVE AND REPLACE EXISTING DOOR, REINSTALL EXISTING DOOR HARDWARE
17	TEMP. CONST. ENTRANCE. COORDINATE FINAL LOCATION WITH OWNER

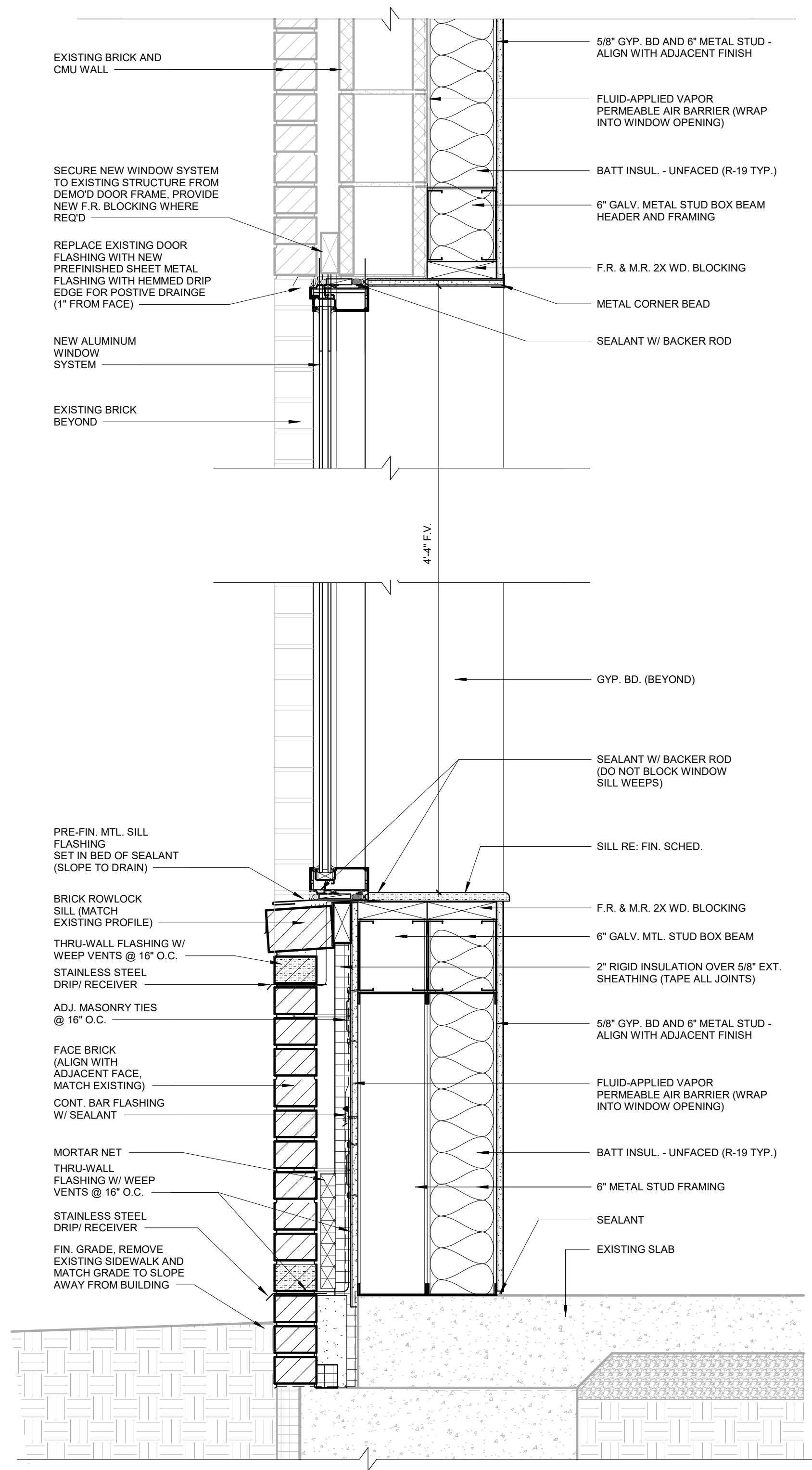
GENERAL DEMOLITION NOTES

- PLANS REPRESENTS DEMOLITION INTENT. ITEMS MAY BE CONCEALED WITHIN WALL(S) THAT ARE NOT IDENTIFIED ON PLAN.
- PRIOR TO DEMOLITION, REMOVAL OF EXISTING EQUIPMENT AND FURNISHING TO BE COORDINATED WITH OWNER ON WHICH ITEMS TO BE SALVAGED.
- GENERAL CONTRACTOR AND SUB-CONTRACTORS SHALL TAKE CARE TO MINIMIZE THE DAMAGE TO EXISTING FINISHES, SURFACES, AND FURNISHINGS WHICH REMAIN. IF ANY DAMAGE WHICH OCCURS TO ADJACENT SURFACE OR MATERIALS AS A RESULT OF DEMOLITION OR CONSTRUCTION ACTIVITIES SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO REPAIR AT THEIR COST.
- GENERAL CONTRACTOR AND SUB-CONTRACTORS TO VERIFY THE EXISTING CONDITIONS AND DETERMINE THE BEST ACTION TO MINIMIZE THE EXTENT OF REMOVAL WORK FOR INSTALLATION OF NEW WORK.
- DO NOT CLOSE OR OBSTRUCT WALKWAYS, EXITS, OR OTHER FACILITIES USED BY OCCUPANTS OF BUILDINGS WITHOUT WRITTEN PERMISSION FROM AUTHORITIES HAVING JURISDICTION.
- INSTALL TEMPORARY DUST PARTITION AND/OR BARRIERS AND OTHER METHODS AS MAY BE REQUIRED/NECESSARY AS INDICATED ON THE PLAN AND AS NECESSARY TO CONTAIN DEMOLITION/CONSTRUCTION DUST AND DEBRIS WITHIN THE AREA OF CONSTRUCTION. REFER TO DUST PARTITION "DP" ON THIS SHEET AND THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- IT IS THE INTENT OF THIS DEMOLITION TO REMOVE ALL EXISTING CONSTRUCTION WHICH CONFLICTS WITH THE INTENT OF THE NEW CONSTRUCTION. EVERY DEMOLITION DETAIL MAY NOT NECESSARILY BE COVERED ON THESE DRAWINGS. FIELD VERIFY THE EXTENT OF ALL DEMOLITION.
- THE CONTRACTOR SHALL USE EXTREME CARE IN THE PROTECTION OF ALL ADJACENT AREAS FOR IT IS IMPERATIVE TO PROVIDE CONTINUOUS OPERATION OF ALL OCCUPIED AREAS DURING THE DEMOLITION, CONSTRUCTION AND RENOVATION.
- ALL DEMOLITION DESCRIBED IN THESE DOCUMENTS SHALL BE COORDINATED WITH PHASING WORK REQUIRED TO COMPLETE THE WORK.
- THE CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK WITHIN OCCUPIED SPACES ABOVE, BELOW AND ADJACENT TO THE WORK. THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE MANAGEMENT OF THE OCCUPIED SPACES ABOVE, BELOW, AND ADJACENT TO THE WORK. TWO WEEKS PRIOR TO COMMENCING WORK, SUCH SPACES ARE TO REMAIN OCCUPIED DURING DEMOLITION AND ALL WORK SHALL BE PERFORMED IN SUCH A MANNER TO MINIMIZE DISRUPTION TO OCCUPIED SPACES. EXISTING FLOOR, WALL AND CEILING FINISHES TO REMAIN SHALL BE PROTECTED AND ANY DAMAGE DONE AS A RESULT OF DEMOLITION WORK SHALL BE REPAIRED.
- IN AREAS SCHEDULED FOR DEMOLITION, THE CONTRACTOR SHALL REMOVE ALL ACCESSORIES: GRAB BARS, MIRRORS, SOAP AND PAPER TOWEL DISPENSERS, SHELVES, BULLETIN BOARDS, ETC., SHALL BE TURNED OVER TO THE OWNER, EXCEPT FOR RELOCATED ITEMS.
- WHERE NEW FINISHES ARE CALLED FOR, REMOVE AND DISCARD EXISTING FLOORING, CEILINGS AND WALL COVERING THROUGHOUT AREA DESIGNATED FOR NEW CONSTRUCTION AND PREP EXISTING FLOOR AND WALL SUBSTRATE TO RECEIVE THE INSTALLATION OF NEW FINISH AS SCHEDULED.
- SEE NEW WORK PLAN FOR REPAIR AND PREPARATION OF ADJACENT SURFACES.
- WHERE CEILING IS TO REMAIN, REMOVE ALL DAMAGED CEILING PANELS/ TILES AND REPLACE WITH NEW TO MATCH EXISTING.
- REMOVE AND RETURN TO THE OWNER ALL EXISTING PLUMBING FIXTURES. CAP ALL SUPPLY AND WASTE LINES AS REQUIRED. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- THE CONTRACTOR SHALL PATCH TO MATCH ADJACENT SURFACES OF EXISTING WALLS, FLOOR, AND CEILINGS IN ALL AREAS THAT REQUIRE THE REMOVAL OF GENERAL MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION WORK AND OF EQUIPMENT AND FIXTURES.
- THE CONTRACTOR SHALL PROVIDE FOR ALL NECESSARY TEMPORARY RELOCATION AND MAINTENANCE OF ALL EXISTING UTILITIES WHICH ARE CURRENTLY IN USE AND WHICH MUST BE TEMPORARILY RELOCATED DURING CONSTRUCTION OF NEW AREAS AND RENOVATION OF EXISTING AREAS.
- REFER TO MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR WORK REQUIRED FOR NEW CONSTRUCTION.
- WHERE REMOVAL OF EXISTING PARTITIONS, EQUIPMENT, ETC. DISTURBS EXISTING MECHANICAL, PLUMBING OR ELECTRICAL SERVICES, THE CONTRACTOR SHALL MAKE PERMANENT REVISIONS/PROVISIONS AS REQUIRED TO MAINTAIN SERVICES AND IF NECESSARY, PROVIDE TEMPORARY SERVICES TO AREAS NOT SCHEDULED FOR DEMOLITION, RENOVATION, AND/OR NEW CONSTRUCTION.
- WHERE EXISTING WALLS, CEILINGS, OR FLOORS ARE DAMAGED BY THE CONTRACTOR FOR ACCESS TO SERVICES AND NEW CONSTRUCTION WHICH MAY NOT BE INDICATED IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE TO PATCH TO MATCH MATERIAL AND FINISHES TO ORIGINAL CONDITIONS. IF EXISTING FINISHES CANNOT BE MATCHED, THE ENTIRE WALL, CEILING, OR FLOOR SHALL BE REFINISHED TO THE NEAREST CORNER OR POSITIVE BREAKING POINT.
- WHEN DEMOLITION CAUSES DAMAGE TO FLOOR SLAB, WALL, OR CEILING SURFACES WHICH WILL REMAIN EXPOSED IN THE FINISHED WORK, SUCH CONDITIONS SHALL BE REPAIRED AND LEVELED AS REQUIRED TO RECEIVE NEW FINISHES.
- WHEN DEMOLITION EXPOSES DAMAGE TO FLOOR SLAB, WALL, OR CEILING SURFACES WHICH WILL REMAIN EXPOSED IN THE FINISHED WORK, SUCH CONDITIONS SHALL BE REPORTED TO THE ARCHITECT AND OWNER WITH A RECOMMENDATION FOR RESOLUTION OF THE CONDITIONS.
- CLEAN AIR GRILLES AND LIGHT FIXTURES THROUGHOUT PROJECT AREA UPON COMPLETION OF WORK.
- EXISTING PARTITION(S) TO REMAIN SHALL BE PATCHED AND REPAIRED AS REQUIRED.
- ALL WALL PROTECTION ACCESSORIES (IE: CORNER GUARDS, CRASH RAILS, ETC.) BEING REMOVED TO BE TURNED OVER TO OWNER UNLESS NOTED OTHERWISE.

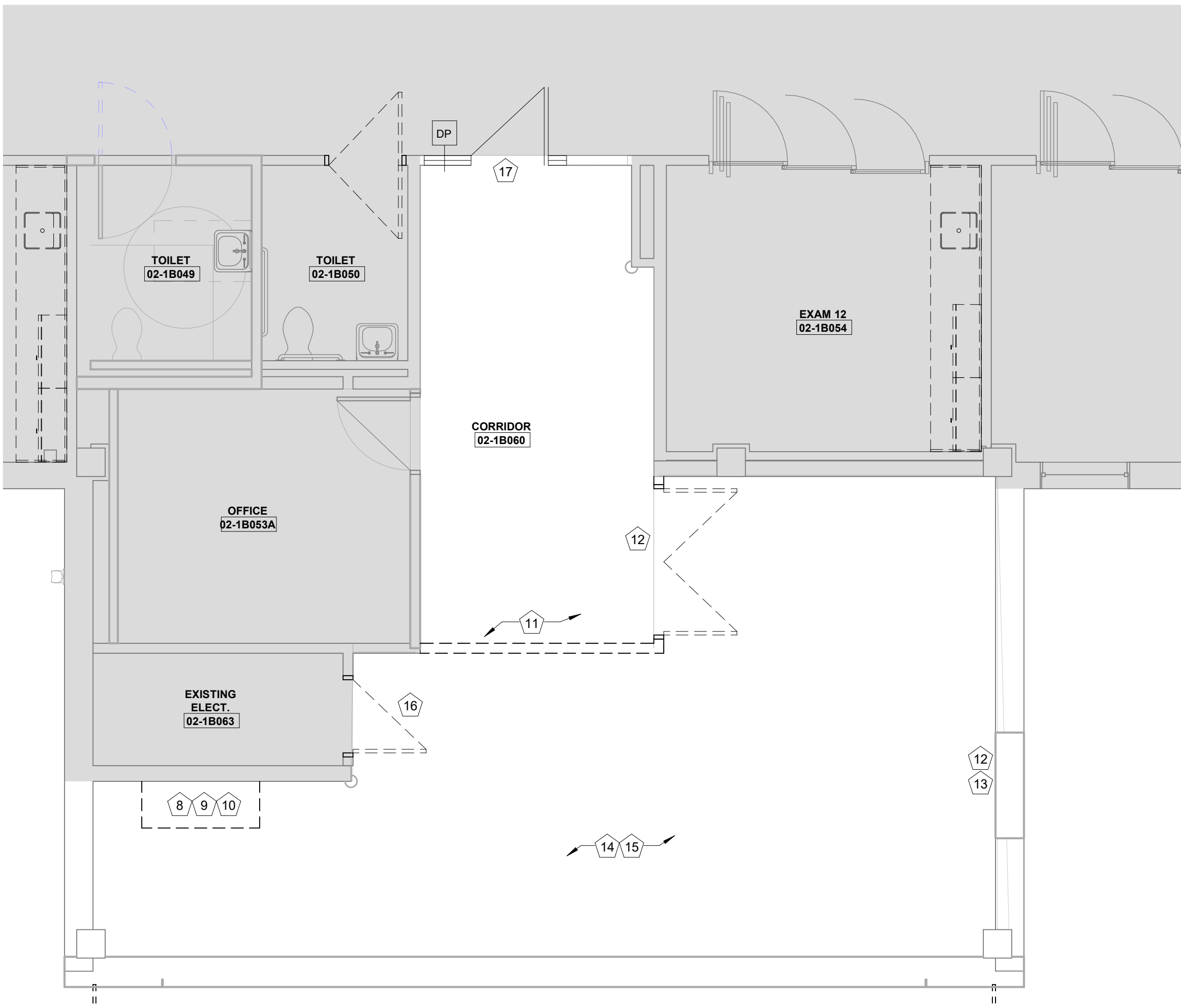
C3 EXISTING OPENING JAMB
1 1/2" = 1'-0"



C1 SECTION DETAIL AT OFFICE WINDOW
1 1/2" = 1'-0"



A5 ENLARGED DEMO - OFFICE
1/4" = 1'-0"



A3 OVERALL FIRST FLOOR DEMO - OFFICE PLAN
1/16" = 1'-0"



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Lee's Summit, MO 64086

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Revision		
Number	Date	Description
1	08/27/21	ASI #1
7	12/10/21	ASI #5 Office

AD2.1.2

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OFFICE DEMO AND DETAILS

VIEW KEY

NAME

LEVEL NAME

HEIGHT ABOVE PROJECT 0'-0"

1

INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL.

INDICATES DIRECTION OF TRUE NORTH

PLAN OR DETAIL NUMBER

PLAN OR DETAIL NAME

1

1/8" = 1'-0"

PLAN OR DETAIL SCALE

INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS

DETAIL REFERRED TO BY SECTION CUT

M101

T101

3

LINE TYPE AND TAG KEY

NEW WORK BY THIS CONTRACTOR (WIDE LINE)

NEW

EXISTING TO BE REMOVED (SHORT DASHED PATTERN)

NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)

EXISTING

EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)

EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

HALFTONING DOES NOT MODIFY SCOPE.

TAG-E

TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING

TAG-1

UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST

INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

CONTRACTOR ABBREVIATION KEY	
ABBR:	DESCRIPTION:
A.C.	ASBESTOS ABATEMENT CONTRACTOR
A.V.C.	AUDIOVISUAL CONTRACTOR
C.C.	CIVIL CONTRACTOR
C.M.	CONSTRUCTION MANAGER
E.C.	ELECTRICAL CONTRACTOR
F.P.C.	FIRE PROTECTION CONTRACTOR
F.S.C.	FOOD SERVICE CONTRACTOR
G.C.	GENERAL CONTRACTOR
H.C.	HEATING CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
N.C.C.	NURSE CALL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
S.C.	SECURITY CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR
V.C.	VENTILATION CONTRACTOR

MECHANICAL SYMBOL LIST	
NOT ALL SYMBOLS MAY APPLY.	
SYMBOL:	DESCRIPTION:
—BD—	BOILER BLOW DOWN
—BF—	BOILER FEED WATER
—CA—	COMPRESSED AIR
—CBR—	CHILLED BEAM RETURN
—CBS—	CHILLED BEAM SUPPLY
—CR—	CONDENSER WATER RETURN
—CS—	CONDENSER WATER SUPPLY
—CS15—	CLEAN STEAM - NUMBER INDICATES PRESSURE IN PSIG.
—CWR—	CHILLED WATER RETURN
—CWS—	CHILLED WATER SUPPLY
—DPP—	DRAIN
—G—	NATURAL GAS
—GV—	GAS REGULATOR VENT
—GWR—	GLYCOL WATER RETURN
—GWS—	GLYCOL WATER SUPPLY
—HCR—	HEATING/CHILLED WATER RETURN
—HCS—	HEATING/CHILLED WATER SUPPLY
—HC—	REFRIGERANT HOT GAS
—HP—	HIGH PRESSURE CONDENSATE
—HPS—	HIGH PRESSURE STEAM
—HWR—	HEATING WATER RETURN
—HWS—	HEATING WATER SUPPLY
—LCS—	LOW PRESSURE CLEAN STEAM
—LQ—	REFRIGERANT LIQUID
—LPC—	LOW PRESSURE CONDENSATE
—LPS—	LOW PRESSURE STEAM
—LWR—	LOOP WATER RETURN
—LWS—	LOOP WATER SUPPLY
—MV—	MEDICAL VACUUM
—OR—	OIL RETURN
—OS—	OIL SUPPLY
—PC—	PUMPED CONDENSATE
—PD—	PUMPED DISCHARGE
—RCR—	RADIANT COOLING RETURN
—RCS—	RADIANT COOLING SUPPLY
—RWR—	REHEAT WATER RETURN
—RWS—	REHEAT WATER SUPPLY
—SUC—	REFRIGERANT SUCTION
—SV—	SAFETY RELIEF VENT
—VAC—	LAB VACUUM
—	PIPE CAP
—	PIPE DOWN
—	PIPE UP OR UP/DOWN
—	PITCH PIPE IN DIRECTION
—	DIRECTION OF FLOW IN PIPE
—	DIELECTRIC CONNECTION
—	UNION/FLANGE
—	SHUTOFF VALVE NORMALLY OPEN
—	SHUTOFF VALVE NORMALLY CLOSED
—	THROTTLING VALVE
—	BALANCING VALVE (NUMBER INDICATES GPM)
—	AUTOMATIC BALANCING VALVE
—	MIXING VALVE
—	CONTROL VALVE (THREE-WAY)
—	CONTROL VALVE (TWO-WAY)
—	SOLENOID VALVE
—	CHECK VALVE
—	BACKFLOW PREVENTER
—	SAFETY/RELIEF VALVE
—	PRESSURE REDUCING VALVE (LIQUID/GAS)
—	PRESSURE REDUCING VALVE (STEAM)
—	TRIPLE DUTY VALVE (ANGLE TYPE)
—	TRIPLE DUTY VALVE (IN-LINE TYPE)
—	PUMP
—	VACUUM BREAKER
—	"WYE" - STRAINER
—	"WYE" - STRAINER W/SHUTOFF VALVE AND HOSE CONNECTION WITH CAP
—	BASKET STRAINER
—	FLEXIBLE CONNECTION
—	PRESSURE/TEMPERATURE TEST PLUG
—	REDUCER - REFERENCE SPECIFICATION FOR CONCENTRIC/ECCENTRIC AND FOT/FOB
—	SUCTION DIFFUSER WITH SUPPORT FOOT
—	AUTOMATIC AIR VENT
—	MANUAL AIR VENT
—	DRAIN VALVE WITH HOSE CONNECTION AND CAP
—	PRESSURE SENSOR (FURNISHED WITH BALL VALVE)
—	PRESSURE GAUGE (FURNISHED WITH BALL VALVE)
—	DIFFERENTIAL PRESSURE SENSOR
—	STATIC SWITCH
—	FLOW METER
—	FLOW SWITCH
—	FLOW SENSOR
—	STEAM TRAP (REFER TO SCHEDULE)
—	F&T STEAM TRAP (REFER TO SCHEDULE)
—	INVERTED BUCKET STEAM TRAP (REFER TO SCHEDULE)
—	ALIGNMENT GUIDE
—	PIPE ANCHOR
—	EXPANSION JOINT
—	#.#" IS THE EXPANSION TRAVEL INCHES
—	METER

MECHANICAL SYMBOL LIST	
NOT ALL SYMBOLS MAY APPLY.	
SYMBOL:	DESCRIPTION:
—	DIRECTION OF AIR FLOW
—	FLEXIBLE DUCT
—	MANUAL VOLUME DAMPER
—R—	RISE IN DIRECTION OF AIR FLOW
—D—	DROP IN DIRECTION OF AIR FLOW
—	DUCT CAP
—	DUCT DOWN
—	DUCT UP
—	SUPPLY/OUTSIDE AIR DUCT SECTION
—	RETURN AIR DUCT SECTION
—	EXHAUST/RELIEF AIR DUCT SECTION
—	4-WAY DIFFUSER WITH BLANKOFF IN ONE DIRECTION
SD-1 6"/15	AIR TERMINAL PROPERTIES SYMBOL NECK SIZE/CFM
—	TERMINAL AIR BOX (REFER TO SCHEDULE)
—	TERMINAL AIR BOX W/REHEAT COIL (REFER TO SCHEDULE)
—	FAN POWERED TERMINAL AIR BOX W/REHEAT COIL (REFER TO SCHEDULE)
—	HUMIDIFIER
—	OPPOSED BLADE DAMPER (REFER TO SCHEDULE)
—	PARALLEL BLADE DAMPER (REFER TO SCHEDULE)
—	DIFFERENTIAL PRESSURE SENSOR
—	HUMIDISTAT SENSOR
—	HUMIDISTAT / SENSOR
—	CARBON MONOXIDE SENSOR
—	CARBON DIOXIDE SENSOR
—	OCCUPANCY SENSOR
—	PRESSURE SENSOR/MONITOR
—	PRESSURE SENSOR (DUCT MOUNTED)
—	THERMOSTAT/SENSOR
—	TEMPERATURE SENSOR
—	THERMOSTAT/SENSOR WITH HEAVY DUTY ENCLOSURE
—	TEMPERATURE SENSOR WITH WELL
—	THERMOMETER WITH WELL (DIAL TYPE)
—	THERMOMETER WITH WELL (FILLED TYPE)
—XX-Y	AIRFLOW MEASUREMENT SYMBOL XX - AHU SYMBOL Y - SEQUENTIAL NUMBER

MECHANICAL ABBREVIATION KEY	
ABBR:	DESCRIPTION:
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
C	COMMON
CO	CLEANOUT
CFSD	CONTROL/FIRE/SMOKE DAMPER
DPG (0-2")	DIFFERENTIAL PRESSURE GAUGE (RANGE)
DPS	DIFFERENTIAL PRESSURE SWITCH
EA	EXHAUST/RELIEF AIR
ECFSD	EXISTING CONTROL FIRE SMOKE DAMPER
EFD	EXISTING FIRE DAMPER
EFSD	EXISTING FIRE SMOKE DAMPER
EP	ELECTRICAL TO PNEUMATIC VALVE
ESD	EXISTING SMOKE DAMPER
FD	FIRE DAMPER
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FSD	FIRE/SMOKE DAMPER
MA	MIXED AIR
MV	MIXING VALVE
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
OA	OUTSIDE AIR
PS	PRESSURE SWITCH
RA	RETURN AIR
SA	SUPPLY AIR
SCCR	SHORT CIRCUIT CURRENT RATING
SD	SMOKE DAMPER
TAB	TERMINAL AIR BOX
TD	TRANSFER DUCT
TYP	TYPICAL
UC-1	DOOR UNDERCUT BY OTHERS (1" TYPICAL)
UON	UNLESS OTHERWISE NOTES

MECHANICAL RENOVATION NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE CONTROL.

- EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
- NOT ALL EXISTING DUCTWORK AND PIPING IS SHOWN. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK.
- FIELD VERIFY THE AVAILABLE CLEARANCES FOR DUCTWORK AND PIPING BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.
- EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF HISHER WORK AND SHALL NOTIFY THE **GENERAL CONTRACTOR** PRIOR TO BIDDING IF OTHER UTILITIES ARE REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO HISHER AREA OF WORK.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CUTTING, REMOVAL AND PATCHING OF ROOFS, WALLS, AND FLOORS ASSOCIATED WITH WORK BY ALL CONTRACTORS. CONTRACTORS SHALL NOTIFY THE GC OF AFFECTED AREAS PRIOR TO BIDDING.
- THE **GENERAL CONTRACTOR** IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILINGS, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE **GENERAL CONTRACTOR** OF AFFECTED AREAS PRIOR TO BIDDING.
- WHERE EXISTING MECHANICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, PIPING, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING MECHANICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.
- PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS THAT REMAIN ACTIVE.
- OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW SYSTEMS ARE INSTALLED.
- MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR TIE IN AND SWITCHOVER. DRAIN SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER BEFORE PARTIALLY OR COMPLETELY DRAINING SYSTEM. MAKE CHANGEOVER TO NEW SYSTEMS WITH MINIMUM OUTAGE.

MECHANICAL PHASING NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE CONTROL.

- REFER TO DRAWINGS FOR GENERAL DESCRIPTION OF PHASES. REFER TO **GENERAL CONTRACTOR'S** INSTRUCTIONS FOR MORE DETAILS AND PHASING SCHEDULES AND FOR CONCURRENT WORK. MECHANICAL, ELECTRICAL AND TECHNOLOGY DRAWINGS DEPICT THE INTENT OF THE FINAL DESIGN. THE MECHANICAL, ELECTRICAL, AND TECHNOLOGY DRAWINGS DO NOT DEPICT THE MEANS AND METHODS TO MEET THE REQUIREMENTS OF THE PHASING CRITERIA.
- REVIEW PROJECT PHASING PLANS TO COORDINATE DEMOLITION WORK, OUTAGES, ETC. WITH AFFECTED ADJACENT AREAS.
- PROVIDE TEMPORARY DUCTWORK, PIPING, SHUTOFF VALVES, ZONE VALVES, ZONE ALARMS, ETC. AS NEEDED TO MAINTAIN SERVICE TO ALL AREAS DURING ALL PHASES OF PROJECT.
- INSTALL TEMPORARY DUCTWORK, PIPING, SHUTOFF VALVES, ETC. AS NECESSARY TO KEEP ALL OCCUPIED SPACES OPERATIONAL THROUGHOUT ALL PHASES OF THE PROJECT.
- PHASE DEMOLITION WORK TO MINIMIZE DOWNTIME.

TAB PRE-DEMOLITION NOTES:

- BEFORE ANY DEMOLITION WORK IS BEGUN A COMPLETE AIR BALANCE TEST SHALL BE PERFORMED BY THE TESTING, ADJUSTING AND BALANCING (TAB) CONTRACTOR ON EXISTING AIR HANDLERS AND EXHAUST FANS SERVING THE AREAS AFFECTED BY CONSTRUCTION. EQUIPMENT TO BE DEMOLISHED DOES NOT REQUIRE TESTING. PROVIDE AIR BALANCE TESTING ONLY ON EQUIPMENT THAT WILL CONTINUE TO BE USED TO SERVE RENOVATED AREAS AFTER THE CONSTRUCTION PHASE IS COMPLETED.
- PROVIDE DUCT TRAVERSE READINGS AT LOCATIONS DESIGNATED ON THE DRAWINGS BY THE "AIRFLOW MEASUREMENT SYMBOL". THOSE MEASUREMENTS SHALL BE INCLUDED IN THE PRE DEMOLITION REPORT AND SHALL BE DESIGNATED WITH THE IDENTIFIER AS MARKED ON THE DRAWINGS. READINGS SHALL BE DESIGNATED WITH THE ROOM NAME AND NUMBER AS MARKED ON THE DRAWINGS. IF FLOOR PLANS DO NOT HAVE UNIQUE ROOM NAMES AND NUMBERS, TAB CONTRACTOR SHALL INCLUDE FLOOR PLAN WITH UNIQUE NUMBER DESIGNATIONS ASSIGNED TO READINGS THAT MATCH THOSE USED IN THE FINAL PRE-DEMOLITION REPORT. DRAWINGS THAT ARE HAND-MARKED WITH RED INK ARE ACCEPTABLE, PROVIDED THEY ARE LEGIBLE.
- IN THE EVENT A DUCT TRAVERSE LOCATION AS MARKED ON THIS PLAN IS INACCESSIBLE FOR MEASUREMENT, THE TAB CONTRACTOR SHALL PERFORM THE TRAVERSE AT AN ALTERNATE LOCATION OR SHALL TAKE MULTIPLE DUCT TRAVERSES AND/OR READINGS AS REQUIRED TO DETERMINE THE AIRFLOW READING WHERE THE DUCT TRAVERSE SYMBOL IS SHOWN. IN THE EVENT TRAVERSES ARE TAKEN AT ALTERNATE LOCATIONS, TAB CONTRACTOR SHALL INCLUDE A DRAWING THAT SHOWS THE LOCATIONS WHERE THE ACTUAL MEASUREMENTS WERE TAKEN.
- TAKE A DUCT STATIC PRESSURE READING AT EACH LOCATION WHERE A DUCT TRAVERSE READING IS TAKEN AND INCLUDE IN THE FINAL PRE-DEMOLITION TAB REPORT.
- TAB CONTRACTOR SHALL COMPILE AND SUBMIT FOUR COPIES OF THE FINAL PRE-DEMOLITION REPORT WITHIN 10 WORKING DAYS AFTER THE FIELD MEASUREMENTS ARE COMPLETED. FINAL TAB REPORT SHALL BE SUBMITTED FOR REVIEW TO THE ARCHITECT/ENGINEER. TESTING SHALL INCLUDE ALL ITEMS REQUIRED IN THE SPECIFICATIONS.

TAB POST-CONSTRUCTION NOTES:

- AFTER CONSTRUCTION ACTIVITIES ARE COMPLETE, TESTING, ADJUSTING (TAB) AND BALANCING CONTRACTOR SHALL REBALANCE AIR HANDLING UNITS AND EXHAUST FANS AS REQUIRED TO ACHIEVE THE NEW AIRFLOW VALUES SHOWN ON THE CONSTRUCTION DRAWINGS.
- AREAS SERVED BY THIS EQUIPMENT WHICH WERE NOT RENOVATED SHALL BE RE-BALANCED TO THE AIRFLOW RATES MEASURED BEFORE THE RENOVATION OCCURRED (REFER TO THE FINAL PRE-DEMOLITION REPORT).
- IF DUCT TRAVERSE LOCATION AS MARKED ON THE DRAWINGS IS INACCESSIBLE FOR MEASUREMENT, THE TAB CONTRACTOR SHALL PERFORM THE TRAVERSE AT AN ALTERNATE LOCATION OR SHALL TAKE MULTIPLE DUCT TRAVERSES AND/OR GRILLE READINGS AS REQUIRED TO DETERMINE THE FLOW RATE. IN THE EVENT TRAVERSES ARE TAKEN AT AN ALTERNATE LOCATION(S), TAB CONTRACTOR SHALL INCLUDE A DRAWING THAT SHOWS THE LOCATIONS WHERE THE ACTUAL MEASUREMENTS WERE TAKEN.
- A DUCT STATIC PRESSURE READING SHALL BE TAKEN AT EACH LOCATION WHERE A DUCT TRAVERSE READING IS TAKEN AND SHALL BE INCLUDED IN THE FINAL POST-CONSTRUCTION TAB REPORT.
- TAB CONTRACTOR SHALL COMPILE AND SUBMIT COPIES OF THE FINAL POST-CONSTRUCTION TAB REPORT AS REQUIRED BY SECTION 23 05 93.
- THE FINAL POST CONSTRUCTION REPORT SHALL INCLUDE ALL ITEMS REQUIRED IN THE SPECIFICATIONS.

PIPING GENERAL NOTES:

- THE SIZE OF BRANCH PIPING TO TERMINAL HEATING DEVICES AND COILS SHALL BE 3/4" UNLESS NOTED OTHERWISE.
- PIPE DRAIN LINES FROM EQUIPMENT TO NEAREST FLOOR DRAIN.
- INSTALL ALL REFRIGERANT LIQUID AND SUCTION PIPING SIZED PER EQUIPMENT MANUFACTURER RECOMMENDATIONS.

VENTILATION GENERAL NOTES:

- UNLESS NOTED OTHERWISE, THE SIZE OF EACH BRANCH DUCT TO A TERMINAL AIR BOX (TAB) SHALL MATCH THE INLET SIZE UNLESS THE BRANCH IS GREATER THAN 6 FEET IN LENGTH. IN WHICH CASE THE BRANCH DUCT SHALL BE SIZED AT A PRESSURE DROP OF 0.07" W.G. PER 100' OF DUCTWORK.
- UNLESS NOTED OTHERWISE, THE SIZE OF EACH BRANCH DUCT TO AN AIR TERMINAL SHALL MATCH THE INLET SIZE.
- ALIGN TEMPERATURE SENSORS WITH LIGHT SWITCHES AND WHEN IN CLOSE PROXIMITY TO EACH OTHER.
- PROVIDE ACCESS DOORS AT ALL DUCT MOUNTED EQUIPMENT.
- VERIFY AIR INLET AND OUTLET CFM SHOWN ON DRAWINGS ARE FROM EXISTING DRAWINGS, AND ARE FOR REFERENCE ONLY. CONTRACTOR SHALL USE PRE-BALANCE VALVES, AND NOT EXISTING CFM SHOWN ON DRAWINGS.
- CONTRACTOR MAY REUSE PORTIONS OF EXISTING DUCT PROVIDED SIZES AND PRESSURE CLASSES ARE CORRECT. DUCT IS THOROUGHLY CLEANED AND FREE OF DEFECTS, AND ALL TRANSVERSE JOINTS, LONGITUDINAL SEAMS, AND DUCT WALL PENETRATIONS ARE SEALED AS SPECIFIED FOR NEW DUCTWORK.

MECHANICAL GENERAL NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE CONTROL.

- DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
- DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
- COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
- REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
- ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
- EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY, AUDIOVISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
- EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
- IN AREAS WITH DRYWALL, CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING.
- SEAL ALL FLOOR AND WALL PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE.
- CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS.
- WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATERTIGHT.
- EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
- DO NOT BLOCK TUBE FULL OR EQUIPMENT SERVICE CLEARANCES.
- MAINTAIN MINIMUM 3'-6" CLEARANCE IN FRONT OF ALL ELECTRICAL PANELS, MOTOR STARTERS, SWITCHES, AND DISCONNECTS.
- PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL EXTEND MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT.
- DO NOT SUPPORT EQUIPMENT, PIPING, OR DUCTWORK FROM METAL DECKING OR OTHER NON-STRUCTURAL BUILDING ELEMENTS. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.

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11/12/21

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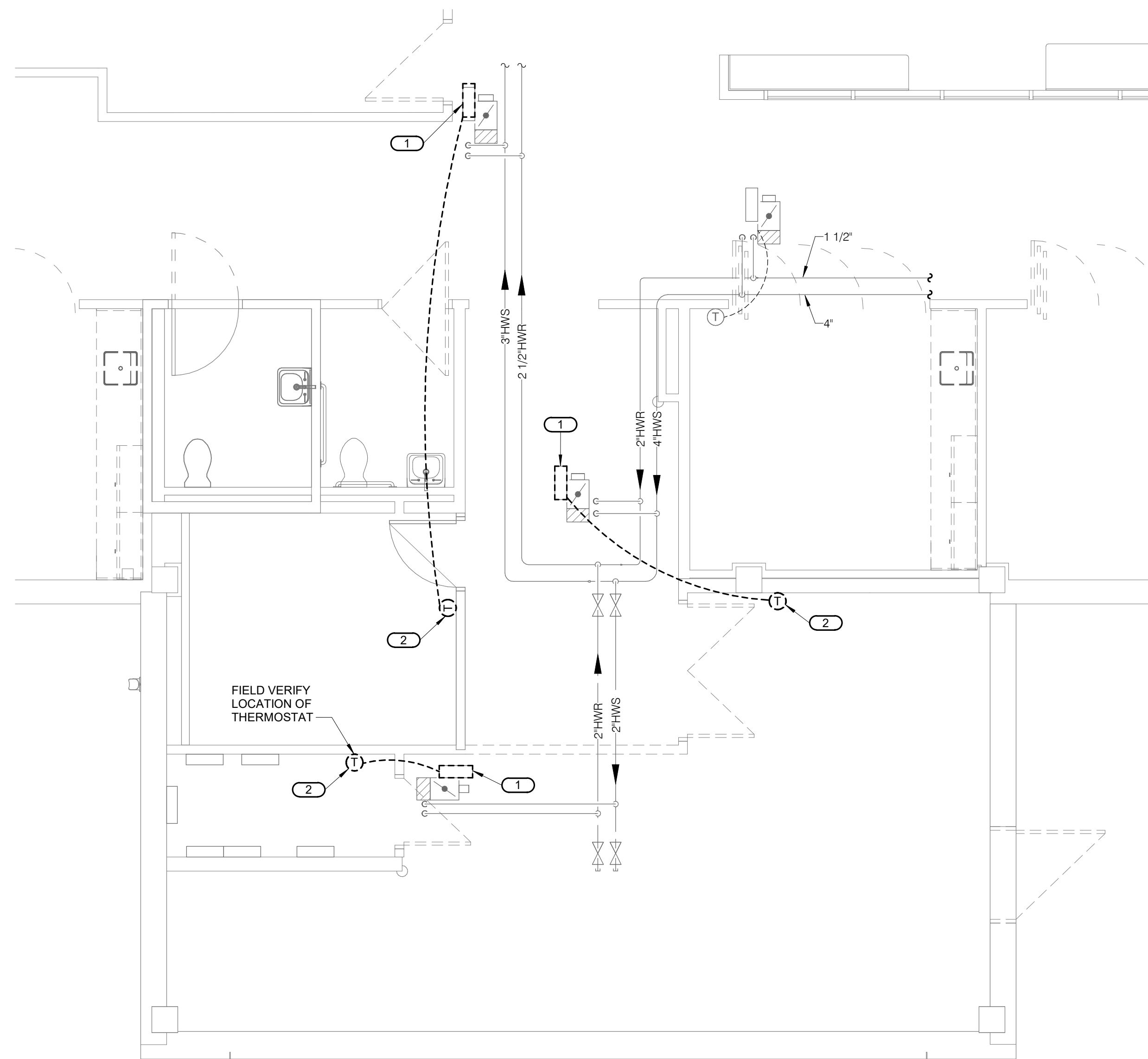
REFERENCE SCALE IN INCHES

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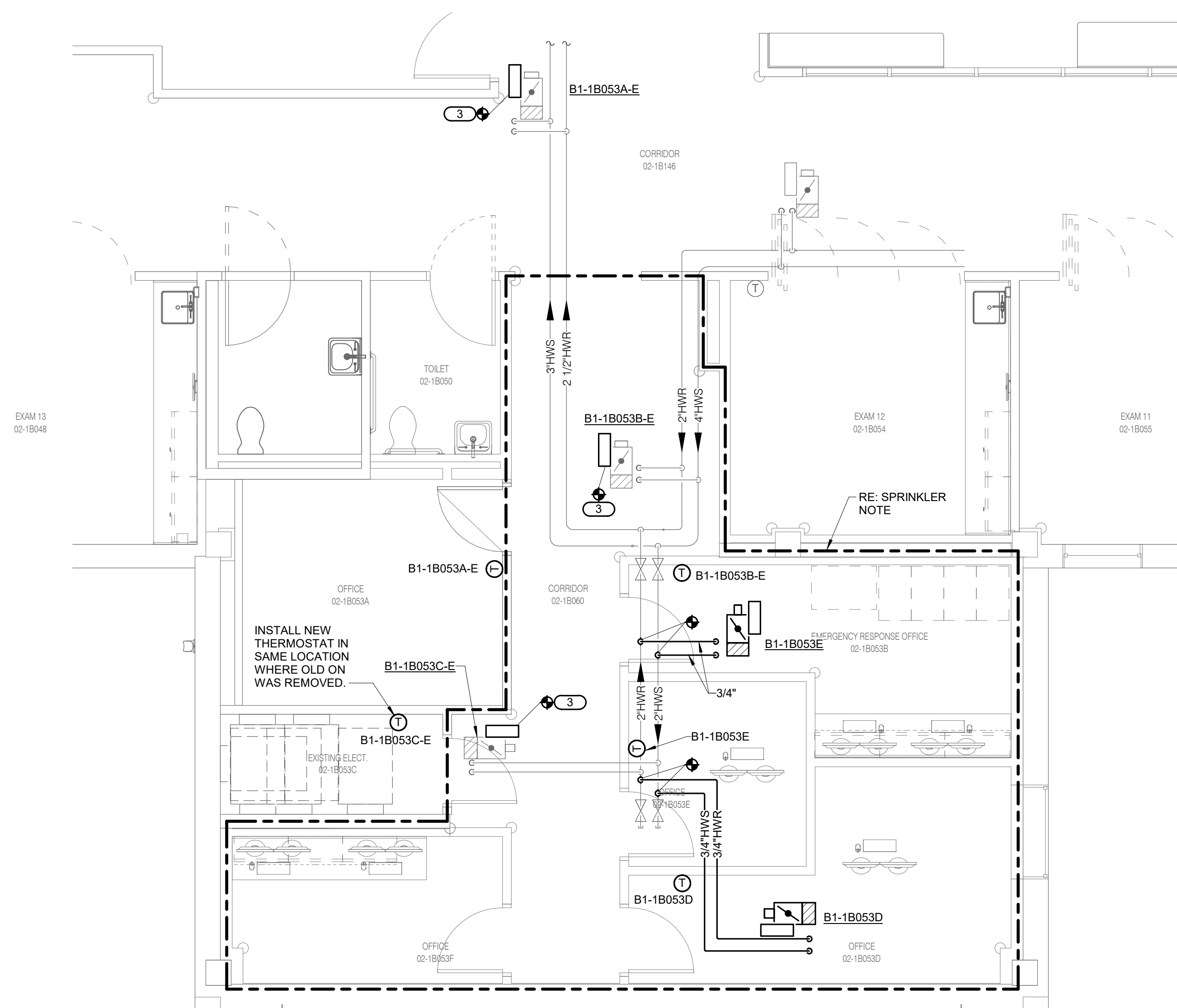
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MECHANICAL COVERSHEET



1

FIRST FLOOR DEMOLITION - PIPING AND CONTROLS - OFFICES

$$1/4'' = 1'-0''$$


2

FIRST FLOOR - PIPING AND CONTROLS - OFFICES

1/4" = 1'-0"

SHEET NOTES:

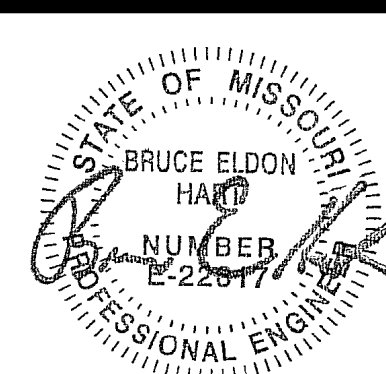
1. REFER TO GENERAL NOTES ON SHEET M000.2.
2. PRIOR TO PERFORMING DEMOLITION, TAKE HEATING HOT WATER FLOW READINGS (IN FULL FLOW MODE) FROM EACH RADIANT PANEL (RAT) AT ALL TERMINAL AIR BOX REPEAT COILS WHERE THE CONTROLS ARE BEING REMOVED UNDER THIS PROJECT AND REPORT RESULTS IN WRITING.
3. TERMINAL AIR BOX (TAB) TAGS ARE BASED ON COMPARTMENT, FACILITY, AND SYSTEM, AND MATCH THE BOX TAGS IN THE FACILITY MANAGEMENT AND CONTROL SYSTEM (FMCS), FACILITY MANAGEMENT AND CONTROL SYSTEM (FMCS), FACILITY MANAGEMENT AND CONTROL SYSTEM (FMCS) IS A JOHNSON CONTROLS METASYS SYSTEM. IF A NEW FMCS IS REQUIRED, THE CONTROL SYSTEM SHALL BE A CENTRALIZED HARDWARE IS REQUIRED TO ALLOW FOR THE CONTROLS UPGRADES, OR IF THE FMCS UPGRADE IS NOT REQUIRED, OR IF FMCS SOFTWARE UPDATES ARE REQUIRED, THEN ANYVALL THOSE SHALL BE INCLUDED IN THE SCOPE OF WORK.
5. EACH DDC UNITARY CONTROLLER SHALL BE POWERED BY EXISTING 24V POWER THAT IS PROVIDED TO OLD CONTROLLER. IF NO 24V OR 24V POWER IS REQUIRED FOR ANY NEW NETWORK HARDWARE OR ANY OTHER REQUIRED ELECTRICAL EQUIPMENT, THE WORK SHALL BE INCLUDED IN THE SCOPE OF WORK.

SPRINKLER NOTE:

SPRINKLER CONTRACTOR SHALL DISCONNECT, RELOCATE AND/OR REMOVE ANY AND/OR ALL SPRINKLER PIPING AND SPRINKLER HEADS AS REQUIRED BY MECHANICAL, ELECTRICAL, AND GENERAL CONTRACTORS. REMOVE ALL SPRINKLER HEADS THAT ARE NOT CONCEALED TYPE. AFTER ALL LARGER DUCTWORK AND PIPING HAVE BEEN INSTALLED, SPRINKLER CONTRACTOR SHALL REINSTALL SPRINKLER HEADS AND/OR PIPING REQUIRED TO SPRINKLER REMODELED SPACE. SPRINKLER CONTRACTOR SHALL ALSO INSTALL NEW HEADS AND/OR PIPING AS REQUIRED BY REMODEL OF SPACE. ALL SPRINKLER HEADS SHALL BE CONCEALED TYPE.

KEYNOTES: #

1. DISCONNECT AND REMOVE DDC TERMINAL AIR BOX CONTROLLER, INCLUDING ASSOCIATED 2-WAY HEATING HOT WATER CONTROL VALVE AND MANUAL BALANCING VALVE (NOT SHOWN) AND ANY EXISTING THERMISTARY SENSORS, CONTROL DEVICES, AND/OR CONTROL WIRING THAT CANNOT BE RE-USED. PROTECT TERMINAL AIR BOX AND REMAINING PIPING FOR NEW CONNECTIONS.
2. DISCONNECT AND REMOVE THERMOSTAT ASSOCIATED WITH TERMINAL AIR BOX (OR BOX CONTROLS) BEING REMOVED. REMOVE ANY CONTROL WIRING THAT CANNOT BE RE-USED.
3. DISCONNECT AND REMOVE EXISTING THERMISTARY CONTROLLER AND NEW PRESSURE-INDEPENDENT CONTROL (PIC) VALVE (NOT SHOWN) ON EXISTING TERMINAL AIR BOX. SIZE THE NEW PIC VALVE FOR HEATING COIL GPM IN ACCORDANCE WITH THE RECOMMENDED CONTROL DIAGRAM ON SHEET M610.1.



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Date	11/12/21
Job Number	3-21024
Drawn By	Author
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Revision		
Number	Date	Description
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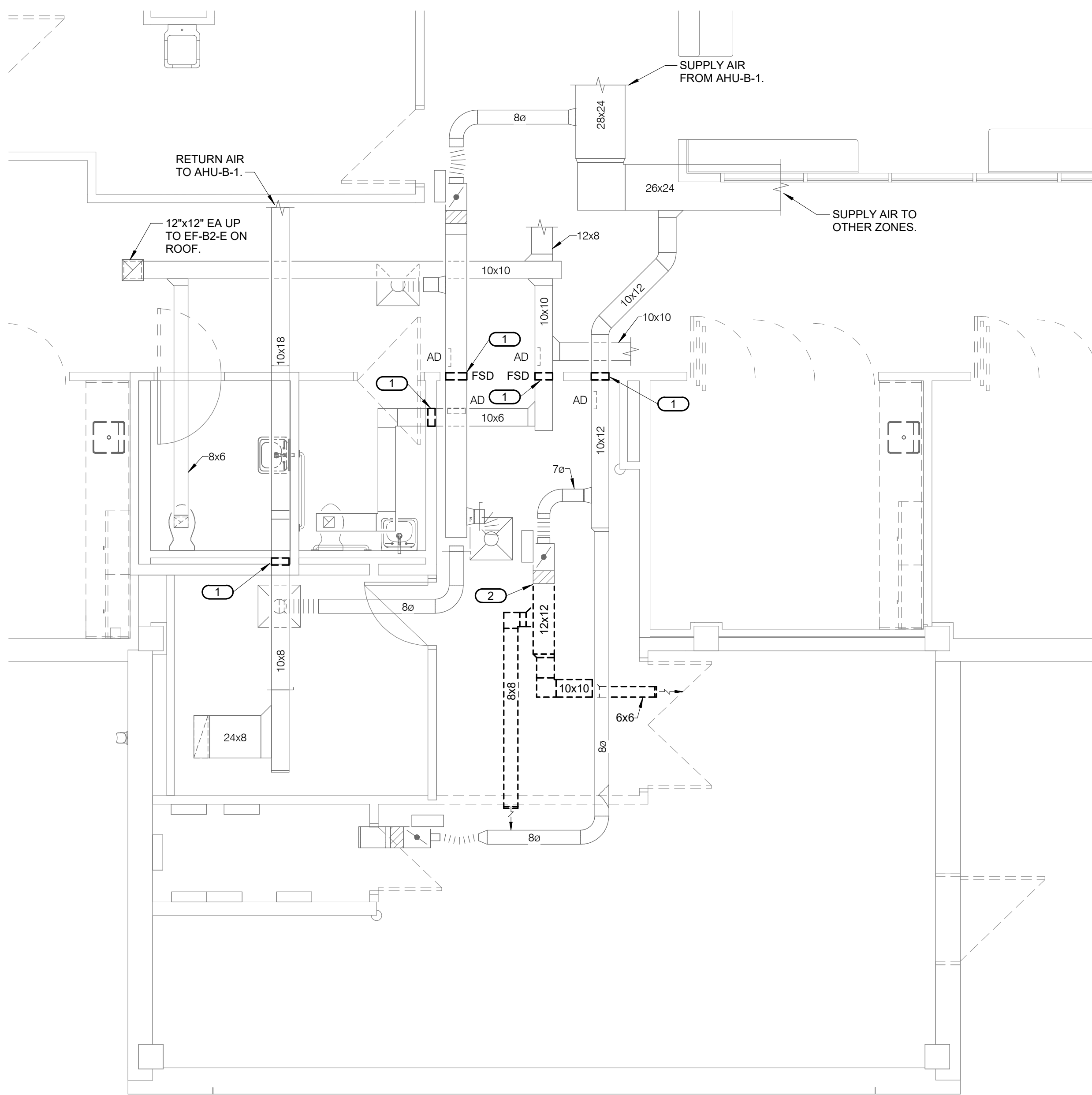
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REFERENCE SCALE IN INCHES

A horizontal graphic scale bar with tick marks at 0, 1, 2, and 3 inches. The numbers 0, 1, 2, and 3 are placed above the corresponding tick marks. The bar itself is a solid black line.

M201.2

FIRST FLOOR - MECH PIPING

**SHEET NOTES:**

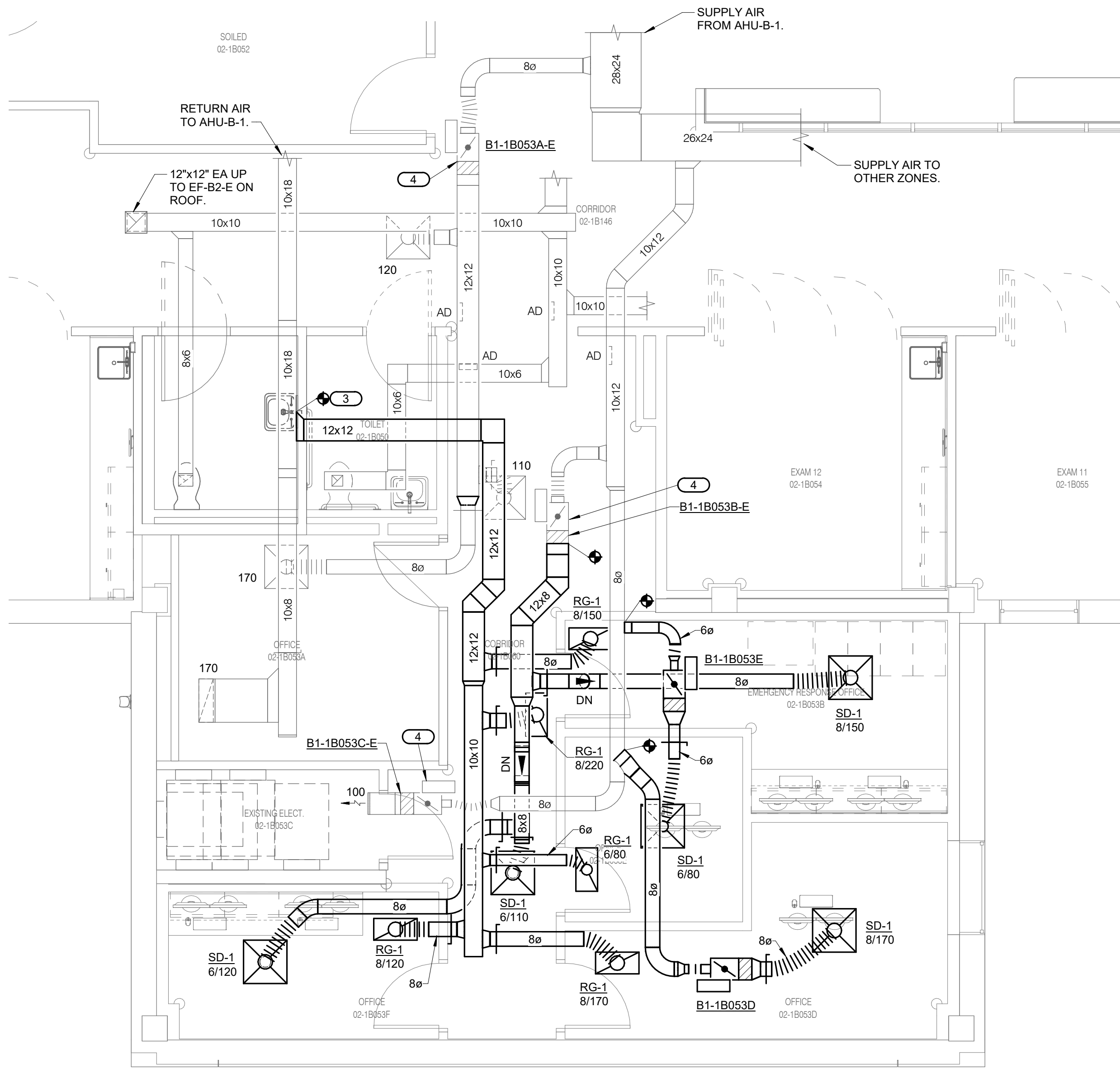
1. REFER TO GENERAL NOTES ON SHEET M000.2.
2. PRIOR TO ERECTING CONSTRUCTION BARRIERS OR PERFORMING DEMOLITION, TAKE AIRFLOW READINGS AT BOTH TERMINAL AIR BOXES AND ALL SUPPLY AND RETURN AIR TERMINALS SHOWN ON THIS PLAN AND/OR WITHIN THE PROJECT AREA. REPORT RESULTS IN WRITING.
3. TERMINAL AIR BOX (TAB) TAGS ARE BASED ON ROOM NUMBERS SERVED, AND MAY NOT MATCH THE BOX TAGS IN THE FACILITY MANAGEMENT AND CONTROL SYSTEM (FMCS).

KEYNOTES: **#**

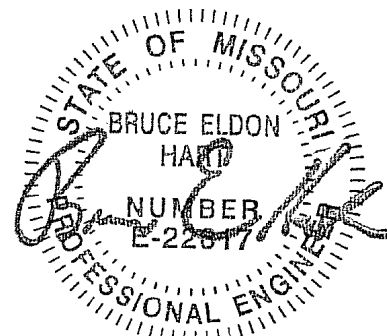
1. LOCK DAMPER IN FULLY OPEN POSITION AND REMOVE ASSOCIATED ACTUATOR. PNEUMATIC TUBING AND/OR WIRING NOT REQUIRED TO REMAIN. INSTALL A SIGN NEAR THE ASSOCIATED DUCT ACCESS DOOR THAT READS, "DAMPER IS NO LONGER REQUIRED AND HAS BEEN DECOMMISSIONED AND LOCKED OPEN."
2. DISCONNECT AND REMOVE DUCTWORK ON DOWNSTREAM SIDE OF TAB, INCLUDING ASSOCIATED AIR TERMINALS. PROTECT TAB FOR NEW CONNECTION. RE: NEW WORK PLAN.
3. COORDINATE EXACT LOCATION OF NEW CONNECTION TO EXISTING 10"x18" RETURN AIR DUCT WITH EXISTING CONDITIONS. CONNECTION MAY NEED TO OCCUR IN CORRIDOR. DO NOT CONNECT TO THE 10"x8" DUCTWORK ABOVE THE OFFICE.
4. ADJUST AIRFLOW SETTINGS FOR EXISTING TAB. ALSO TEST, ADJUST, AND BALANCE ALL AIR TERMINALS ASSOCIATED WITH THIS ZONE (INCLUDING RETURN AIR TERMINALS) TO THE NEW AIRFLOW RATES (CFM) INDICATED.

**1****FIRST FLOOR DEMOLITION - VENTILATION - OFFICES**

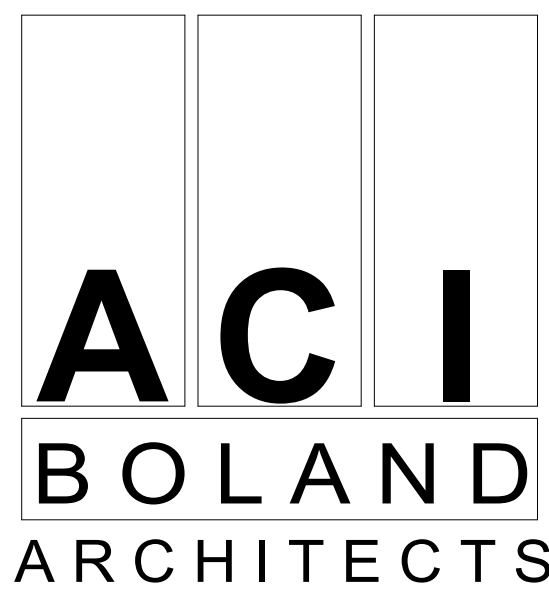
1/4" = 1'-0"

**2****FIRST FLOOR - VENTILATION - OFFICES**

1/4" = 1'-0"

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Drawn By	Author
Checked By	Checker

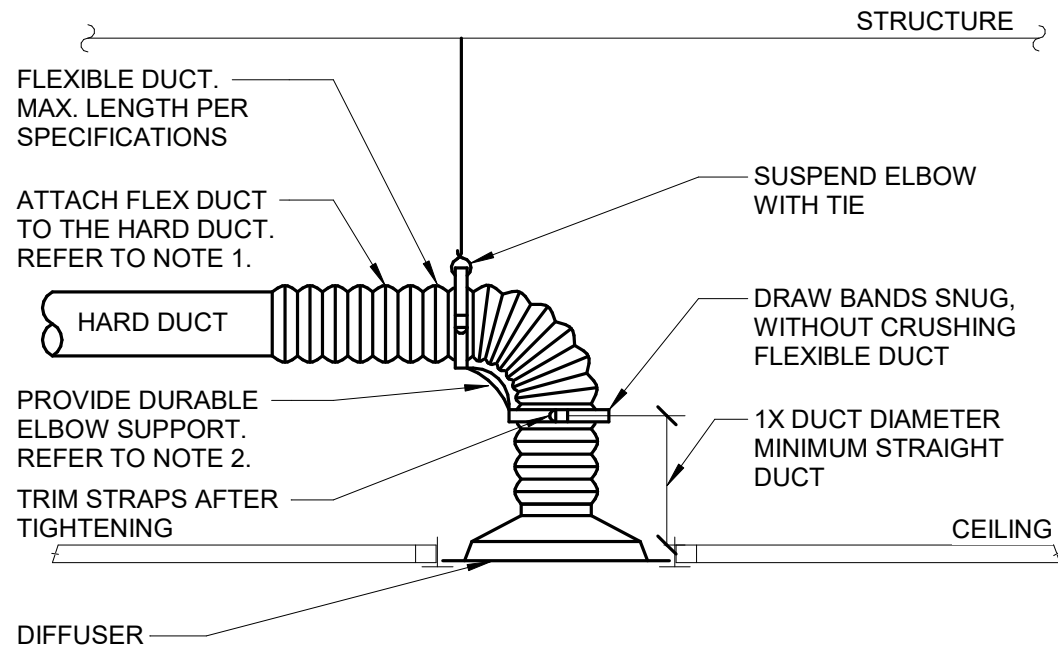
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Number	Date	Description
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FIRST FLOOR - VENTILATION

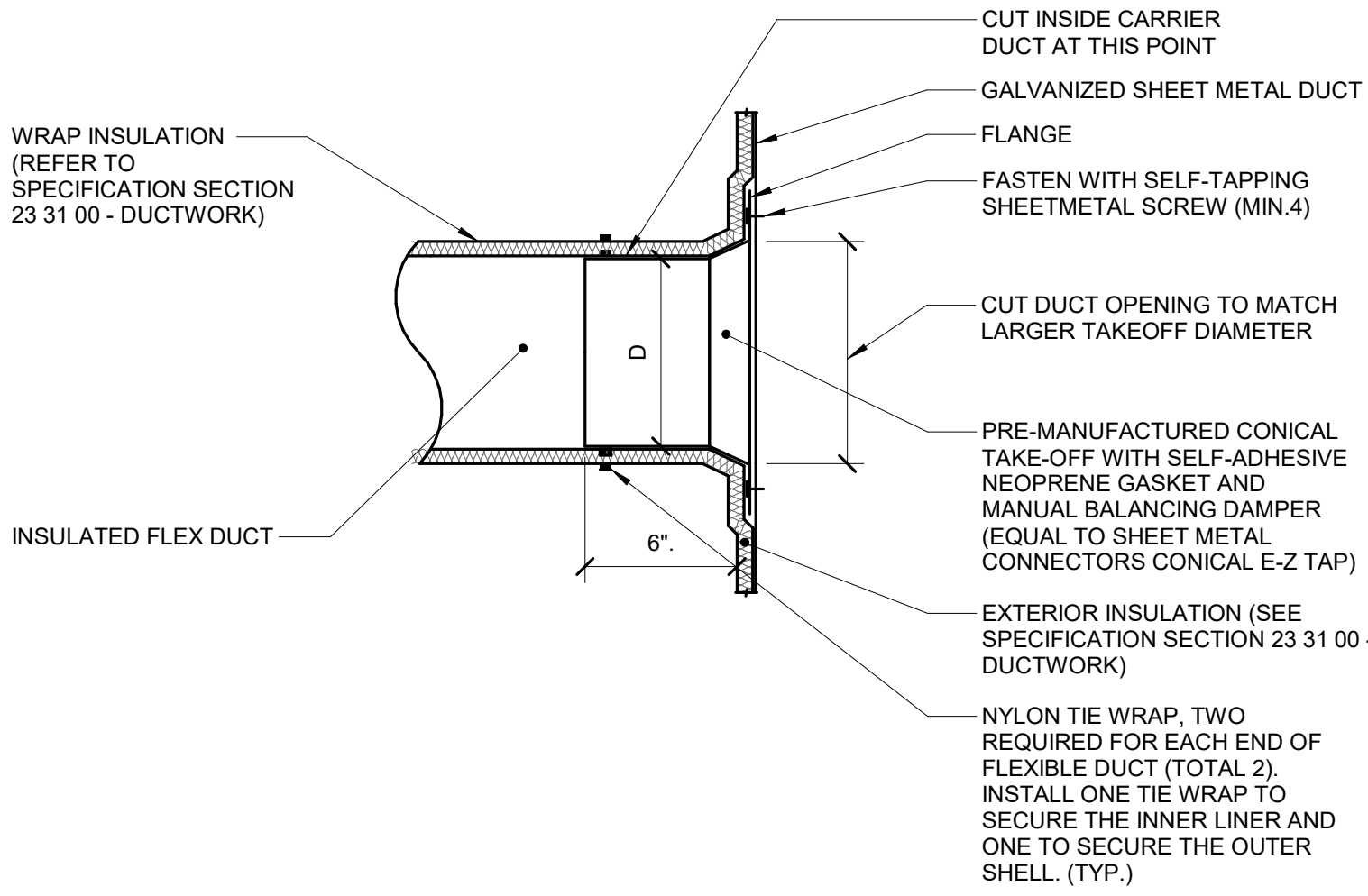
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NOTES:

1. TO ATTACH FLEX DUCT TO THE HARD DUCT, TAPE THE INNER LINER TO THE HARD DUCT THEN ATTACH WITH TWO NYLON TIE WRAPS, ONE FOR THE INNER LINER AND ONE FOR THE OUTER SHELL. FOLD THE OUTER SHELL INSIDE ITSELF SO IT HAS NEAT EDGES PRIOR TO TIE WRAPPING.
2. DURABLE ELBOW SUPPORT ACCEPTABLE MANUFACTURER AND MODEL: HART AND COOLEY - SMARTFLOW, THERMAFLEX - FLEXFLOW, TITUS - FLEXRIGHT, OR APPROVED EQUAL.

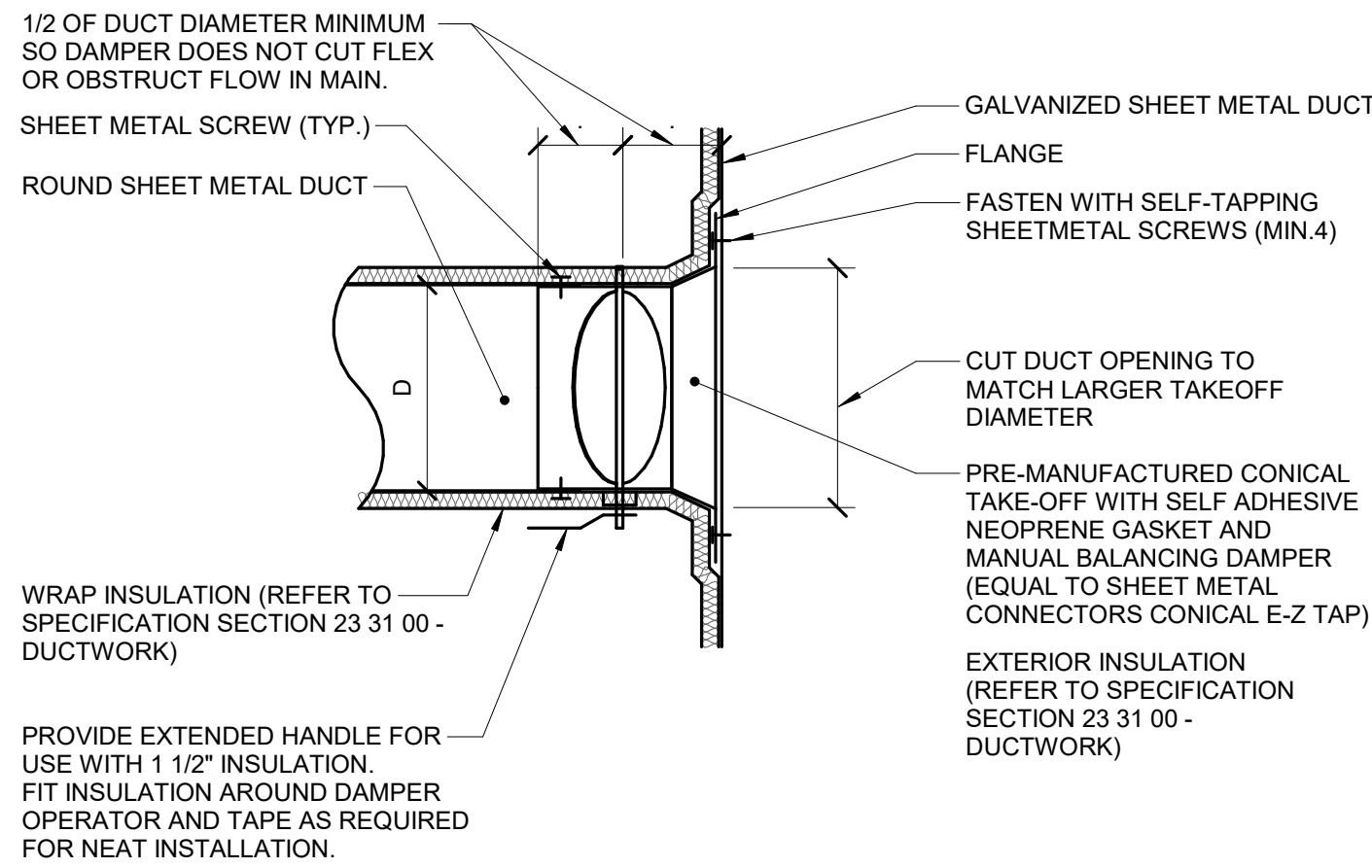
1 **DIFFUSER CONNECTION DETAIL**
(W/ RADIUS FORMING ELBOW)
NO SCALE



NOTES:

1. THIS DETAIL APPLIES ONLY TO TAPS OFF UNLINED DUCTS.
2. TAP DOES NOT NEED TO BE CONICAL IF THE TAP IS NOT LOCATED BETWEEN FANS AND TERMINAL AIR BOXES. DUCT IS NOT OVER 2" PRESSURE CLASS, AND ROUND DUCT IS NOT OVER 12" DIAMETER.

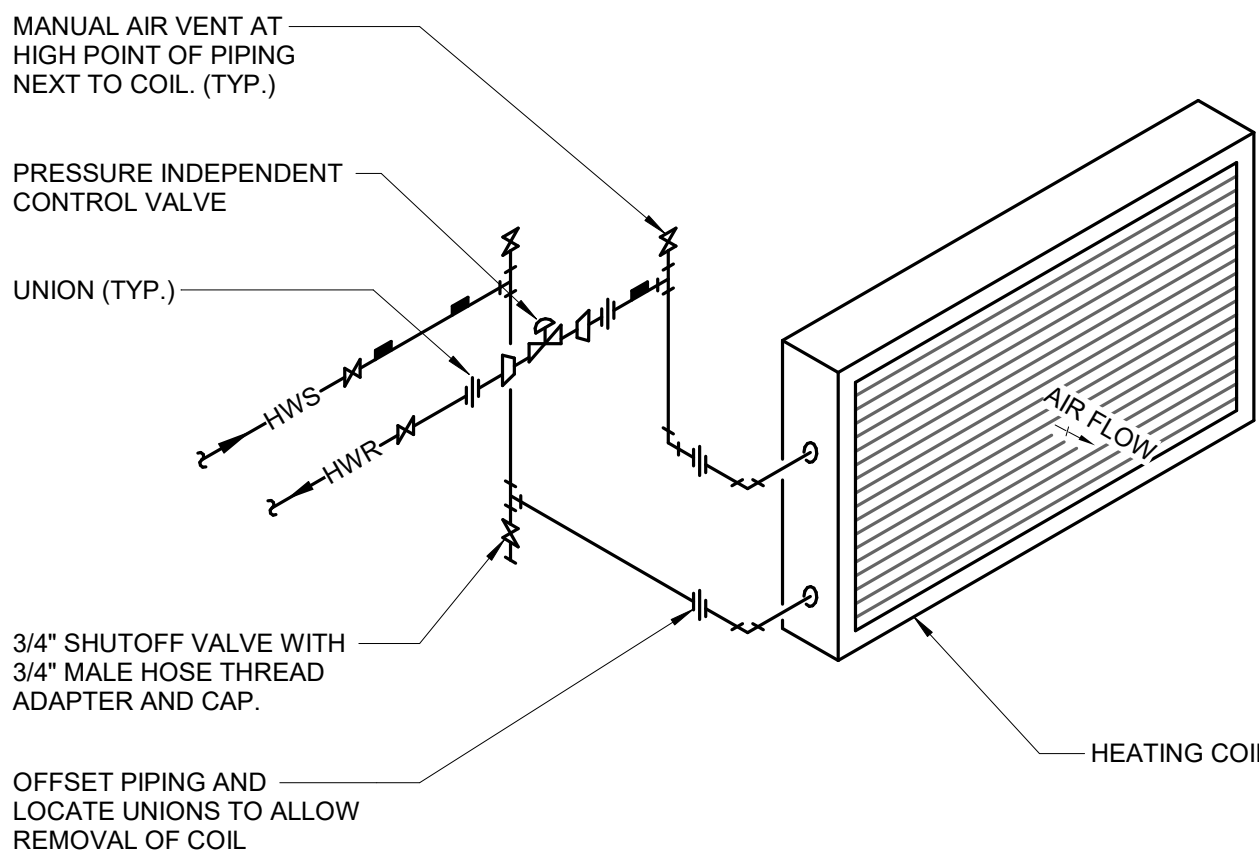
2 **FLEX DUCT CONNECTION**
(CONICAL/WAPPED)
NO SCALE



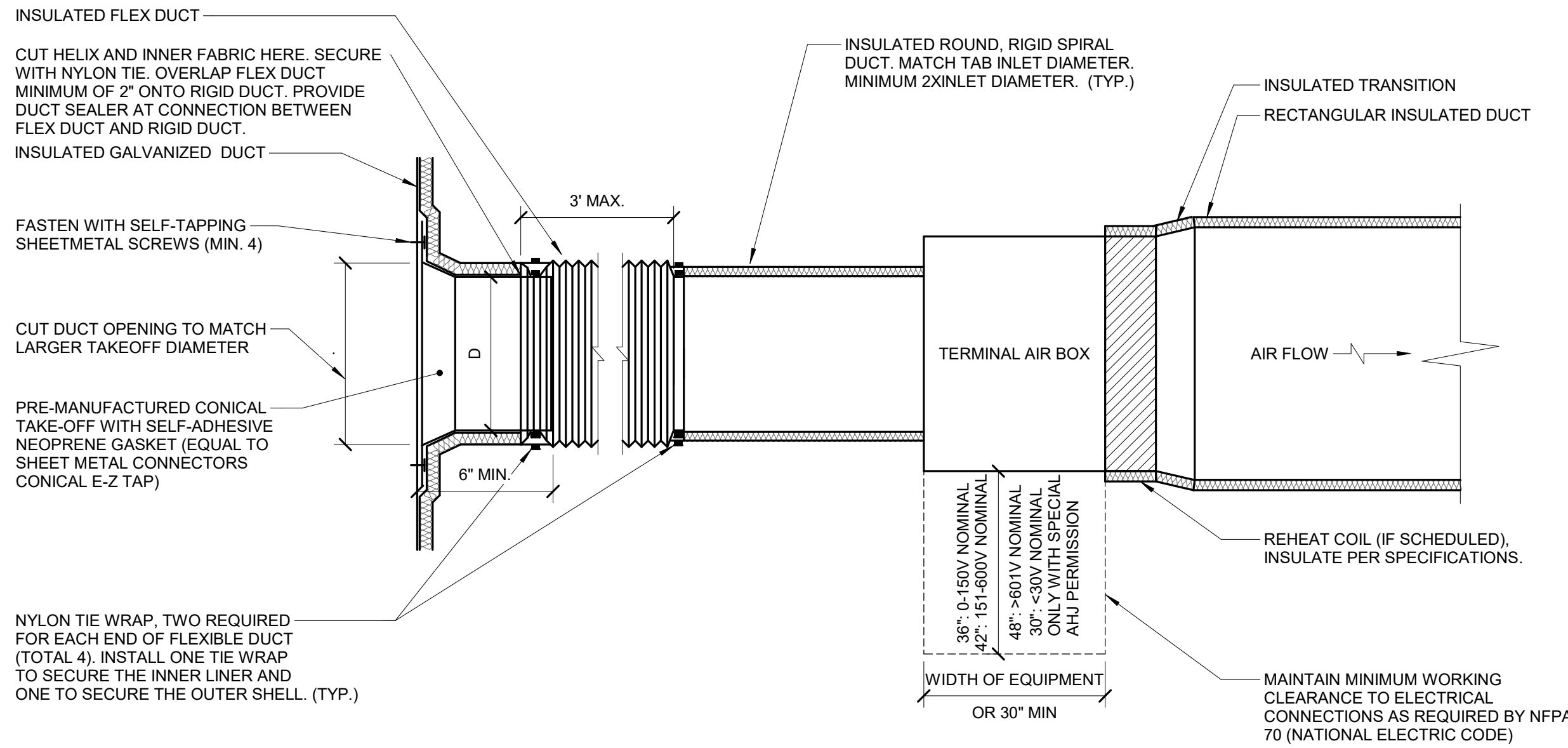
NOTES:

1. THIS DETAIL APPLIES ONLY TO TAPS OFF UNLINED DUCTS.
2. TAP DOES NOT NEED TO BE CONICAL IF THE TAP IS NOT LOCATED BETWEEN FANS AND TERMINAL AIR BOXES. DUCT IS NOT OVER 2" PRESSURE CLASS, AND ROUND DUCT IS NOT OVER 12" DIAMETER.
3. MANUFACTURED TAP/DAMPER COMBINATIONS WITH LESS THAN 1/2 DUCT DIAMETER SPACING BETWEEN THE MAIN DUCT AND THE DAMPER SHAFT ARE ACCEPTABLE ONLY IF THE DAMPER SHAFT IS INSTALLED PARALLEL TO THE AIR FLOW IN THE MAIN DUCT.

3 **ROUND DUCT TAP CONNECTION**
(CONICAL/WAPPED)
NO SCALE



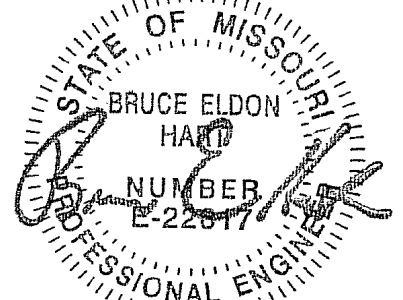
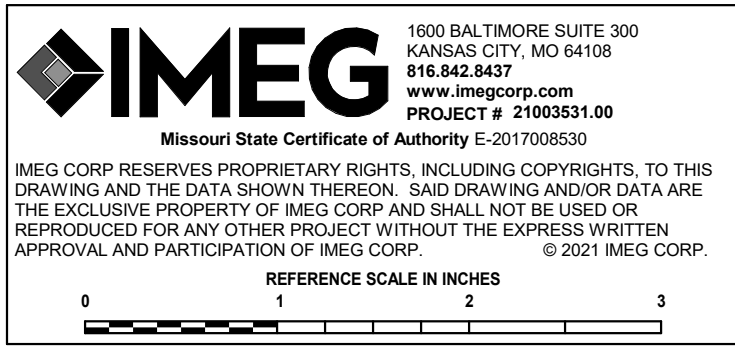
4 **HOT WATER COIL PIPING**
NO SCALE



NOTES:

1. THIS DETAIL APPLIES ONLY TO TAPS OFF WRAPPED DUCTS.
2. THIS DETAIL APPLIES TO TERMINAL AIR BOXES WITH ROUND INLETS AND RECTANGULAR OUTLETS.
3. DUCT LEADING TO TAB INLET MUST BE STRAIGHT FOR 1.5 DIAMETER UPSTREAM.
4. MAINTAIN VAPOR BARRIER FROM MAIN TO BRANCH DUCT.

5 **TERMINAL AIR BOX DETAIL**
(WRAPPED MAIN)
NO SCALE



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Date 11/12/21
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Drawn By MJL
Checked By DWD

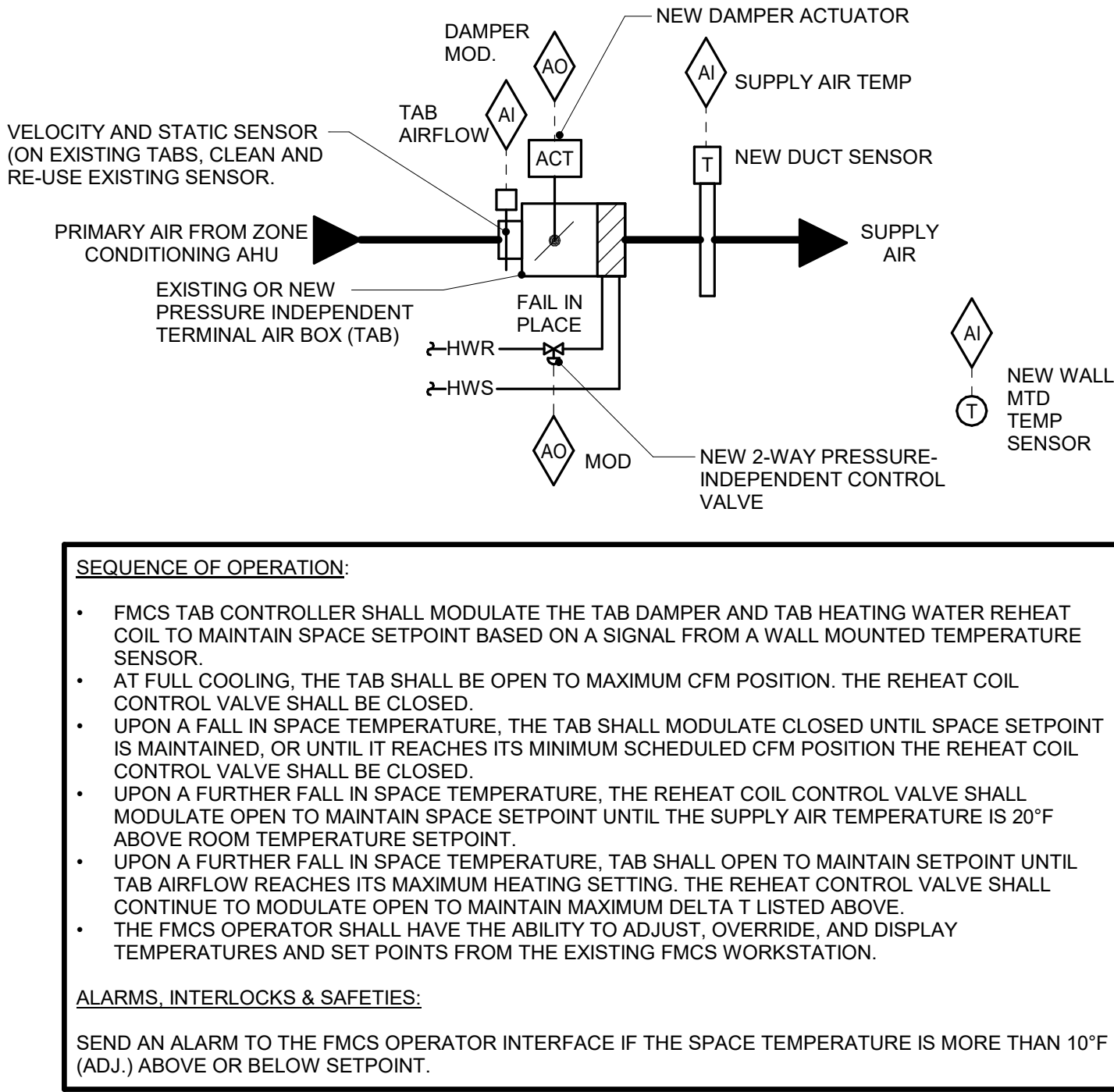
Revision
Number Date Description

M410.2

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VENTILATION AND PIPING DETAILS

CONTROL SYMBOL LIST			
NOT ALL SYMBOLS MAY APPLY.			
SYMBOL:	DESCRIPTION:		
—CR—	CONDENSER WATER RETURN		
—CS—	CONDENSER WATER SUPPLY		
—CS15—	CLEAN STEAM - NUMBER INDICATES PRESSURE IN PSIG.		
—CWR—	CHILLED WATER RETURN		
—CWS—	CHILLED WATER SUPPLY		
—GWR—	GLYCOL WATER RETURN		
—GWS—	GLYCOL WATER SUPPLY		
—HCR—	HEATING/CHILLED WATER RETURN		
—HCS—	HEATING/CHILLED WATER SUPPLY		
—HPC—	HIGH PRESSURE CONDENSATE		
—HPS—	HIGH PRESSURE STEAM		
—HWR—	HEATING WATER RETURN		
—HWS—	HEATING WATER SUPPLY		
—LPC—	LOW PRESSURE CONDENSATE		
—LPS—	LOW PRESSURE STEAM		
—LWR—	LOOP WATER RETURN		
—LWS—	LOOP WATER SUPPLY		
—PC—	PUMPED CONDENSATE		
—RWR—	REHEAT WATER RETURN		
—RWS—	REHEAT WATER SUPPLY		
—VAC—	LAB VACUUM		
	CONTROL VALVE (THREE-WAY)		
	CONTROL VALVE (TWO-WAY)		
	SOLENOID VALVE		
	CHECK VALVE		
	THERMOSTAT		
	THERMOSTAT/SENSOR WITH HEAVY DUTY ENCLOSURE		
	TEMPERATURE SENSOR (DUCT MOUNTED)		
	TEMPERATURE SENSOR WITH WELL		
	THERMOMETER WITH WELL (DIAL TYPE)		
	THERMOMETER WITH WELL (FILLED TYPE)		
	AVERAGING TEMPERATURE SENSOR		
	LOW LIMIT TEMPERATURE SWITCH		
	PROBE TEMPERATURE SENSOR		
	PRESSURE SENSOR (FURNISHED WITH BALL VALVE)		
	PRESSURE GAUGE (FURNISHED WITH BALL VALVE)		
	DIFFERENTIAL PRESSURE SENSOR		
	PRESSURE SENSOR (DUCT MOUNTED)		
	STATIC SWITCH		
	ANALOG INPUT		
	ANALOG OUTPUT		
	FLOW METER		HUMIDISTAT SENSOR
	FLOW SWITCH		HUMIDISTAT / SENSOR
	FLOW SENSOR		HUMIDITY SENSOR (DUCT MOUNTED)
	AIR FLOW SWITCH		CARBON MONOXIDE SENSOR
	DUCT FLOW METER		CARBON MONOXIDE SENSOR (DUCT MOUNTED)
	HUMIDIFIER		CARBON DIOXIDE SENSOR (DUCT MOUNTED)
	DUCT SMOKE DETECTOR		FILTER
	HEATING/ COOLING COIL		TERMINAL AIR BOX
	AIR BLENDER		TERMINAL AIR BOX W/ REHEAT
	MANUAL MOTOR STARTER W/THERMAL OVERLOAD		OCCUPANCY SENSOR
	FAN		SENSOR
	MOTOR		ACTUATOR
	CONTACTOR		DOOR SWITCH
	PUMP		DIFFERENTIAL PRESSURE SWITCH
			CURRENT SWITCH
			VIBRATION SWITCH
			NORMALL CLOSED CONTACT
			NORMALLY OPEN CONTACT
			OPPOSED BLADE DAMPER
			PARALLEL BLADE DAMPER

TEMPERATURE CONTROLS ABBREVIATION KEY	
ABBR:	DESCRIPTION:
EA	EXHAUST/RELIEF AIR
MA	MIXED AIR
MV	MIXING VALVE
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
OA	OUTSIDE AIR
TYP	TYPICAL
RA	RETURN AIR
SA	SUPPLY AIR
UON	UNLESS OTHERWISE NOTES



3 TAB CONTROL W/ HOT WATER REHEAT

NO SCALE

EXISTING TERMINAL AIR BOX BALANCING SCHEDULE - OFFICE

TAG NAME	MIN. INLET SIZE (IN.) DIA.	COOLING MAX. CFM	COOLING MIN. CFM	HEATING MAX. CFM	REHEAT COIL GPM
B1-1B053A-E	8"	400	400	400	1.3
B1-1B053B-E	7"	380	380	380	1.3
B1-1B053C-E	4"	100	50	50	0.2

TERMINAL AIR BOX SCHEDULE - SINGLE DUCT - OFFICE

NOTES:
1. NEITHER RADIATED NOR DISCHARGE SOUND LEVELS SHALL EXCEED NC 35 AT 1.5" INLET STATIC PRESSURE WHEN TESTED PER AHRI STANDARD 885-2008 USING 5/8" 20-LB DENSITY MINERAL FIBER CEILING TILE.
2. TOTAL AIR PRESSURE DROP OF TAB AND REHEAT COIL SHALL NOT EXCEED 0.50" W.C.
3. HEATING COIL IS BASED ON HEATING AIR FLOW. WATER PRESSURE DROP OF REHEAT COILS SHALL NOT EXCEED 5'. PROVIDE REHEAT COILS SEPARATE FROM BOXES IF REQUIRED TO MEET WATER PRESSURE DROP REQUIREMENTS. WHEN LAT °F, EWT °F, AND GPM VALUES ARE BLANK, HEATING COIL IS NOT REQUIRED FOR TAB.
4. HEATING COIL SELECTION SHALL BE BASED ON A FIXED LEAVING AIR TEMPERATURE AND VARIABLE FLOW (GPM). PROVIDE FINAL MAXIMUM FLOW RATE (GPM) TO TEST & BALANCE TEMPERATURE CONTROLS CONTRACTORS.

TAG NAME	CFM		HEATING COIL (NOTES 5, 6)				MIN. INLET SIZE (IN.) DIA.	MANUFACTURER	MODEL (NOTES 1, 2)	NOTES
	COOLING MAX.	HEATING MAX.	MIN.	EAT °F	LAT °F	EWT °F	MAX. GPM			
B1-1B053D	170	100	100	55.0	100.0	180	0.4	5"	TITUS	NOTES 1, 2, 3, 4
B1-1B053E	80	50	50	55.0	85.0	180	0.2	4"	TITUS	NOTES 1, 2, 3, 4

AIR TERMINAL SCHEDULE - OFFICE

NOTES:
1. CONTRACTOR SHALL DETERMINE PROPER BORDER TYPE TO MATCH CEILING CONSTRUCTION.
2. REFER TO DRAWINGS FOR NECK SIZE. ALL BRANCH DUCTWORK TO AIR TERMINALS SHALL BE NECK SIZE UNLESS NOTED OTHERWISE.

TAG NAME	FACE SIZE (IN.) (NOTE 2)	TYPE	BORDER (NOTE 1)	MATERIAL	FINISH	VOLUME DAMPER REQUIRED	MANUFACTURER	MODEL	NOTES
RG-1	24x12	LOUVERED FACE GRILLE, 45 DEG. DEFLECTION	LAY-IN	STEEL	WHITE	NO	TITUS	23RL	OMIT SCREW HOLES
SD-1	24x24					NO			
SD-1	24x24	SQUARE PLAQUE DIFFUSER	LAY-IN	STEEL	WHITE	NO	TITUS	OMNI	

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11/12/21

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Drawn By MJL
Checked By Checker

Revision
Number 7 Date 12-10-21 Description ASI #5

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SCHEDULES AND CONTROL DIAGRAMS

ELECTRICAL SYMBOL LIST	
SYMBOL:	DESCRIPTION:
	SWITCH - SINGLE POLE
	SWITCH - LOCAL TIMER - SPRING WOUND
	WATTSTOPPER DIGITAL TIME SWITCH: TS-400
	SWITCH - DOOR JAMB
	SWITCH - EMERGENCY
	SWITCH - EXPLOSION PROOF
	SWITCH - SINGLE POLE - KEY LOCK
	SWITCH - LIGHTED HANDLE
	SWITCH - MOMENTARY CONTACT
	SWITCH - WEATHERPROOF
	SWITCH - TWO POLE
	SWITCH - TWO POLE - KEY LOCK
	SWITCH - THREE WAY
	SWITCH - THREE WAY - EMERGENCY
	SWITCH - THREE WAY - KEY LOCK
	SWITCH - FOUR WAY
	SWITCH - FOUR WAY - EMERGENCY
	SWITCH - FOUR WAY - KEY LOCK
	SWITCH - THREE POSITION-CENTER OFF
	COMBINATION SWITCH AND RECEPTACLE
	DIMMER - 600 WATT
	DIMMER - 600 WATT - 3 WAY
	DIMMER - 1000 WATT - 3 WAY
	DIMMER - 1500 WATT - 3 WAY
	DIMMER - 2000 WATT - 3 WAY
	DIMMER - LED - 3-WAY
	WATTSTOPPER DUAL TECHNOLOGY DIMMING LINE VOLTAGE WALL OCCUPANCY SENSOR: DSW-311
	WATTSTOPPER DIGITAL LIGHTING MANAGEMENT ROOM CONTROLLER. #- REFERS TO NUMBER OF RELAYS AND D REFERS TO 0-10V DIMMING CONTROLLER
	DAYLIGHT LEVEL SENSOR
	DAYLIGHT LEVEL SENSOR - 3 ZONE
	DAYLIGHT LEVEL SENSOR - 1 ZONE DIMMING
	DAYLIGHT LEVEL SENSOR - 3 ZONE DIMMING
	WATTSTOPPER DLM SYSTEM PHOTO CELL: LMLS-500
	WATTSTOPPER DUAL TECHNOLOGY CEILING OCCUPANCY SENSOR WITH POWER PACK: LMC0-100
	OCCUPANCY SENSOR - DUAL TECHNOLOGY - WALL MOUNTED
	WATTSTOPPER DUAL TECHNOLOGY LINE VOLTAGE WALL OCCUPANCY SENSOR: DSW-301
	SWITCH - OCCUPANCY SENSOR AND DUAL SWITCH - DUAL TECHNOLOGY
	OCCUPANCY SENSOR - PASSIVE INFRARED 360 DEGREE COVERAGE
	OCCUPANCY SENSOR - PASSIVE INFRARED 100 DEGREE COVERAGE
	OCCUPANCY SENSOR - PASSIVE INFRARED - WALL MOUNTED
	OCCUPANCY SENSOR - ULTRASONIC 360 DEGREE COVERAGE
	OCCUPANCY SENSOR - ULTRASONIC 35X30 HAND MOTION COVERAGE
	OCCUPANCY SENSOR - ULTRASONIC TWO SIDED CORRIDOR COVERAGE
	OCCUPANCY SENSOR - ULTRASONIC - WALL MOUNTED
	WALL CONTROL STATION
	TIME SWITCH
	WATTSTOPPER DIGITAL LIGHTING MANAGEMENT CONTROL STATION KEYPAD WITH PROGRAMMABLE FUNCTION BUTTONS. # INDICATES NUMBER OF SWITCHES.
	ZZ INDICATES TYPE: SX: BUTTON PAD - X: NUMBER OF BUTTONS. D1: ONE BUTTON DIMMING ROCKER SWITCH.
	CENTRAL CONTROL - STATION
	LIGHTING CONTROL PANEL
	LIGHTING CONTROL LCD STATION
	NURSE CALL LIGHTING CONTROLLER
	AUTOMATIC LOAD CONTROL RELAY - WATT STOPPER EMERGENCY LIGHTING CONTROL UNIT. UPON LOSS OF NORMAL POWER, EMERGENCY LIGHTING SHALL BE BROUGHT TO FULL BRIGHTNESS REGARDLESS OF SWITCH POSITION. PROVIDE ALL LOW VOLTAGE CABLING AS REQUIRED. ELCU-200
	WATTSTOPPER DIGITAL LIGHTING MANAGEMENT INPUT/OUTPUT INTERFACE FOR BMS CONTROL OF LIGHTING. PROVIDE ALL LOW VOLTAGE CABLING AS REQUIRED: IMP-101

ELECTRICAL SYMBOL LIST	
SYMBOL:	DESCRIPTION:
	LINEAR LUMINAIRES
	TROFFER
	WALL SCONCE LUMINAIRE
	DOWNLIGHT LUMINAIRE
	AIMABLE OR WALL WASH LUMINAIRE
	INDUSTRIAL LUMINAIRE
	WALL BRACKET LUMINAIRE
	POLE MOUNTED LUMINAIRE
	SINGLE FACE EXIT SIGN
	DOUBLE FACE EXIT SIGN
	WALL/CEILING EMERGENCY EXIT SIGN
	EMERGENCY UNIT

ELECTRICAL SYMBOL LIST	
SYMBOL:	DESCRIPTION:
	DUPLEX RECEPTACLE CONTROLLED BY OCCUPANCY
	QUAD RECEPTACLE CONTROLLED BY OCCUPANCY
	DUPLEX RECEPTACLE, 125V
	DUPLEX GFI RECEPTACLE, 125V
	GROUND FAULT DEVICE
	DUPLEX GFI WEATHERPROOF AND WEATHER RESISTANT LABELED RECEPTACLE 125V
	DUPLEX RECEPTACLE, EXPLOSION PROOF, 125V
	ISOLATED GROUND RECEPTACLE, 125V
	ISOLATED GROUND QUAD RECEPTACLE WITH SURGE SUPPRESSION, 125V
	DUPLEX RECEPTACLE, USB CHARGING
	ARC FAULT CIRCUIT INTERRUPTER RECEPT 125V
	RECEPTACLE, 125V
	RECEPTACLE 125V, 50A, 125V
	RECEPTACLE, 6-20R, 250V
	RECEPTACLE, 6-30R, 250V
	RECEPTACLE, 6-50R, 250V
	RECEPTACLE, 7-20R, 277V
	RECEPTACLE, 7-30R, 277V
	RECEPTACLE, 7-50R, 277V
	RECEPTACLE, 14-20R, 125/250V
	RECEPTACLE, 14-30R, 125/250V
	RECEPTACLE, 14-50R, 125/250V
	RECEPTACLE, 15-20R, 250V, 3PH
	RECEPTACLE, 15-30R, 250V, 3PH
	RECEPTACLE, 15-50R, 250V, 3PH
	RECEPTACLE, 15-60R, 250V, 3PH
	RECEPTACLE, LOCKING TYPE, L5-20R, 125V
	RECEPTACLE, LOCKING TYPE, L5-30R, 125V
	RECEPTACLE, LOCKING L6-20R, 250V
	RECEPTACLE, LOCKING L6-30R, 250V
	RECEPTACLE, LOCKING L7-20R, 277V
	RECEPTACLE, LOCKING L7-30R, 277V
	RECEPTACLE, LOCKING L14-20R, 125/250V
	RECEPTACLE, LOCKING L14-30R, 125/250V
	RECEPTACLE, LOCKING L15-20R, 250V, 3PH
	RECEPTACLE, LOCKING L15-30R, 250V, 3PH
	RECEPTACLE, L16-20R, 480V, 3PH
	RECEPTACLE, L16-30R, 480V, 3PH
	RECEPTACLE, LOCKING L21-20R, 120/208V, 3PH
	RECEPTACLE, LOCKING L21-30R, 120/208V, 3PH
	RECEPTACLE, EXPLOSION PROOF, 125V
	DUPLEX RECEPTACLE, TAMPER RESISTANT, 125V
	GFI DUPLEX RECEPTACLE, TAMPER RESISTANT, 125V
	QUAD RECEPTACLE, 125V
	QUAD GFI RECEPTACLE, 125V
	QUAD RECEPTACLE, USB 125V
	QUAD GFI WEATHER PROOF OR WEATHER RESISTANT LABELED RECEPTACLE, 125V
	RECEPTACLE - PEDESTAL STYLE
	FLOOR BOX - POKE THRU, 125V
	IEC PIN AND SLEEVE RECEPTACLE, 600V
	POWER POLE

TECHNOLOGY SYMBOL LIST	
SYMBOL:	DESCRIPTION:
	AV DEVICE IN FLOOR BOX/POKE THROUGH
	N/A AV DEVICE IN FLOOR BOX/POKE THROUGH - EXISTING
	AV FLOOR BOX/POKE THROUGH WITH AV
	N/A AV FLOOR BOX/POKE THROUGH WITH AV - EXISTING
	TECHNOLOGY FLOOR BOX/POKE THROUGH WITH INFORMATION OUTLET
	N/A TECHNOLOGY FLOOR BOX/POKE THROUGH WITH INFORMATION OUTLET - EXISTING
	TECHNOLOGY FLOOR BOX/POKE THROUGH WITH INFORMATION OUTLET AND AV - EXISTING
	INFORMATION OUTLET AND AV DEVICE IN FLOOR BOX/POKE THROUGH
	N/A INFORMATION OUTLET AND AV DEVICE IN FLOOR BOX/POKE THROUGH - EXISTING
	SC-IO-W INFORMATION OUTLET (WALL)
	N/A INFORMATION OUTLET (WALL) EXISTING
	INFORMATION OUTLET WALL PHONE (WALL)
	N/A INFORMATION OUTLET WALL PHONE (WALL) EXISTING
	SC-IO-C INFORMATION OUTLET (CEILING)
	N/A INFORMATION OUTLET (CEILING) EXISTING
	WIRELESS ACCESS POINT WITH ENCLOSURE (CEILING)
	WIRELESS ACCESS WITH POINT ENCLOSURE (WALL)
	SC-FF-F TECHNOLOGY POKE THROUGH FOR FURNITURE FEED (FLOOR)
	N/A FLOOR BOX POKE THROUGH FOR FURNITURE FEED - EXISTING
	PA-S1-C FACILITY PAGING SPEAKER (CEILING) TYPE 1
	PA-VCL-W FACILITY PAGING VOLUME CONTROL (WALL) TYPE 1
	VS-CAM-C CLOSED CIRCUIT TELEVISION (CCTV) CAMERA (CEILING)

ELECTRICAL SYMBOL LIST	
SYMBOL:	DESCRIPTION:
	GROUND BUS
	INTERSYSTEM BONDING TERMINATION
	ELECTRICAL CONNECTION
	JUNCTION BOX
	FLOOR BOX - DUPLEX RECEPTACLE
	FLOOR BOX - SEE NOTES BELOW
	FLOOR BOX - MULTI SERVICE
	TECHNOLOGY ROUGH-IN, FLOOR BOX
	FLOOR - SERVICE FITTING
	TECHNOLOGY OUTLET ROUGH-IN. REFER TO SPECIFICATION FOR REQUIREMENTS
	TECHNOLOGY ROUGH-IN, CEILING
	TECHNOLOGY ROUGH-IN, WALL PHONE
	TV ANTENNA OUTLET ROUGH-IN
	MULTI OUTLET SYSTEM
	ELECTRICAL WIREWAY w/ DEVICES SHOWN
	ENERGY METER
	DIGITAL POWER METER
	IMPULSE-TOTALIZING DEMAND
	EXTERNAL ENERGY METER
	POWER QUALITY METER
	CONTROL POWER CABINET
	EMERGENCY STOP, N.C. CONTACT
	EMERGENCY STOP, N.O. CONTACT
	LAMP ANNUNCIATOR
	MOMENTARY PUSHBUTTON OPERATOR
	PANELBOARD - RECESS MOUNT
	PANELBOARD - SURFACE MOUNT
	MANUAL SWITCH / STARTER / COMBINATION STARTER/ CIRCUIT BREAKER, REFER TO DISC/STA SCHEDULE
	REMOTE ANNUNCIATOR STATION
	INTEGRATED POWER CENTER
	TRANSFORMER REFER TO TRANSFORMER SCHEDULE
	PACKAGED POWER CENTER
	CIRCUIT BREAKER - SURFACE MOUNTED. REFER TO DISC/STA SCHEDULE
	CIRCUIT BREAKER - FLUSH MOUNTED. REFER TO DISC/STA SCHEDULE
	DISCONNECT. REFER TO DISC/STA SCHEDULE
	MOBILE DIAGNOSTICS SERVICE DISCONNECT. REFER TO DISC/STA SCHEDULE

NURSE CALL SYMBOL LIST		
SYMBOL:	DESCRIPTION:	
	NC-NB-W	NURSE CALL BED INTERFACE (WALL)
	NC-NC-W	NURSE CALL CODE BLUE STATION (WALL)
	NC-D-W	NURSE CALL DOME LIGHT (WALL)
	NC-N2-W	NURSE CALL DUAL PATIENT BED STATION (WALL)
	NC-DTY-W	NURSE CALL DUTY STATION (WALL)
	NC-NE-W	NURSE CALL EMERGENCY CALL STATION (WALL)
	NC-MAS-W	NURSE CALL MASTER STATION (WALL)
	NC-NL-W	NURSE CALL PRESENCE LOCATOR (WALL)
	NC-NT-W	NURSE CALL PULL CORD STATION - TOILET
	NC-N-W	NURSE CALL SINGLE PATIENT BED STATION (WALL)
	NC-NA-W	NURSE CALL STAFF ASSIST STATION (WALL)
	NC-STF-W	NURSE CALL STAFF STATION (WALL)
	NC-DZ-C	NURSE CALL ZONE DOME LIGHT (CEILING)
	NC-D-C	NURSE CALL DOME LIGHT (CEILING)

SECURITY SYMBOL LIST		
SYMBOL:	DESCRIPTION:	
	IAA	INTRUSION DETECTION AUDIBLE ALARM (WALL)
	ID-DC-W	INTRUSION DETECTION DOOR CONTACT SWITCH (WALL)
	IDM	INTRUSION DETECTION MOTION DETECTOR (CEILING)
	IDM	INTRUSION DETECTION MOTION DETECTOR (WALL)
	ISD	INTRUSION DETECTION SMOKE DETECTOR (CEILING)
	ID-VSM-C	INTRUSION DETECTION VAULT ALARM SYSTEM MICROPHONE (CEILING)
	ID-VSA-C	ID VAULT ALARM SYSTEM MICROPHONE CONTROLLER (CEILING)
	LD	LOCKDOWN DEVICE - ELECTRIC STRIKE
	AC-CR1-W	SECURITY CREDENTIAL READER (WALL) TYPE 1
	AC-DR-S	SECURITY DURESS/PANIC BUTTON (SURFACE)
	AC-EDR-UC	SECURITY ELECTRONIC DOOR RELEASE (UNDERCOUNTER)
	AC-ST-W	SECURITY STROBE INDICATOR (WALL)
	AC-WDR-M	SECURITY WIRELESS DURESS FOB (MOBILE)
	ID-GM-C	SECURITY DURESS/PANIC BUTTON (SURFACE)

ELECTRICAL SYMBOL LIST	
SYMBOL:	DESCRIPTION:
COMMON AND SEQUENCE OF OPERATION SUBSCRIPTS	SUBSCRIPTS: TYPE / PROGRAMMING WG = WIRE GUARD IS REQUIRED WP = WEATHERPROOF A = ATRIUM CA = CLEAN AGENT SYSTEM CR = COMPUTER ROOM E = ELEVATOR RECALL D = HVAC CONTROL DH = DOOR HOLD RELEASE DIPS = DUAL INTERLOCK PREACTION SYS FD = FIRE DOOR RELEASE MP = MEDICAL PROCEDURE S = SLEEPING / PATIENT ROOM SW = STAIRWELL # = 15, 30, 75, 110, 177 CANDELA RATING CD = CANDELA RATING SELECTED BY NICET DESIGNER
	FIRE ALARM SMOKE DETECTOR, CEILING OR WALL MOUNT
	BLANK - PHOTOELECTRIC AT = ATTIC (LOCATED IN) BR = BEAM RECEIVER BT = BEAM TRANSMITTER CO = COMBINATION SMOKE / CARBON MONOXIDE COH = COMBINATION SMOKE / CARBON MONOXIDE / HEAT COS = COMBINATION SMOKE / CARBON MONOXIDE / STROBE H = COMBINATION SMOKE / HEAT DETECTOR ION = IONIZATION TYPE ID = IN DUCT DETECTOR SA = STAND ALONE WITH SOUNDER SB = SOUNDER BASE SV = STAND ALONE WITH SOUNDER FIRE ALARM DUCT SMOKE DETECTOR
	# = EQUIP OR SYSTEM
	FIRE ALARM AIR SAMPLING SMOKE DETECTION
	GAS DETECTION, CEILING OR WALL MOUNT
	CO = CARBON MONOXIDE
	FIRE ALARM HEAT DETECTOR
	BLANK = COMBINATION RATE OF RISE / FIXED TEMP AT = ATTIC (LOCATED IN) F = FIRED TEMP RC = RATE COMPENSATED X = EXPLOSION PROOF
	HEAT DETECTOR - LINEAR WIRE TYPE
	FIRE ALARM FLAME DETECTOR, CEILING OR WALL MOUNT
	FIRE ALARM MANUAL PULL STATION
	FIRE ALARM MANUAL PULL STATION W/ COVER
	FIRE ALARM VISUAL ALARM DEVICE, CEILING OR WALL MOUNT
	# = CANDELA RATING CD = CANDELA RATING SELECTED BY NICET DESIGNER
	ELECTRIC BELL FOR SPRINKLER SYSTEM
	AUDIO HORN/CHIME ALARM DEVICE, CEILING OR WALL MOUNTED
	COMBINATION AUDIO HORN/CHIME AND VISUAL ALARM DEVICE, CEILING OR WALL MOUNTED
	# = CANDELA RATING CD = CANDELA RATING SELECTED BY NICET DESIGNER
	AUDIO (SPEAKER) ALARM DEVICE, CEILING OR WALL MOUNTED
	COMBINATION AUDIO (VOICE) AND VISUAL ALARM DEVICE, CEILING OR WALL MOUNTED
	# = CANDELA RATING CD = CANDELA RATING SELECTED BY NICET DESIGNER
	EMERGENCY VISUAL ALARM DEVICE, CEILING OR WALL MOUNTED
	# = CANDELA RATING CD = CANDELA RATING SELECTED BY NICET DESIGNER
	EMERGENCY COMBINATION AUDIO (VOICE) AND VISUAL ALARM DEVICE, CEILING OR WALL MOUNTED
	# = CANDELA RATING CD = CANDELA RATING SELECTED BY NICET DESIGNER

ELECTRICAL ABBREVIATION KEY	
ABBR:	DESCRIPTION:
AFF	ABOVE FINISHED FLOOR
C	CONDUIT
GFI	GROUND FAULT INTERRUPTER
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
SV	SOLENOID VALVE
TP	TYPICAL
UON	UNLESS OTHERWISE NOTES

EMERGENCY SYMBOL KEY	
SYMBOL:	DESCRIPTION:
	NORMAL BRANCH LUMINAIRE
	CRITICAL BRANCH LUMINAIRE
	LIFE SAFETY BRANCH LUMINAIRE
	CRITICAL BRANCH RECEPTACLE
	CRITICAL BRANCH OR LIFE SAFETY BRANCH ELECTRICAL CONNECTION WHERE PANELBOARD IS NOTED CONNECT TO CRITICAL BRANCH.

ELECTRICAL GENERAL NOTES:

- (L####) INDICATES THE LIGHTING SEQUENCE OF OPERATION FOR THE SPACE. REFER TO THE LIGHTING SEQUENCE OF OPERATION MATRIX ON SHEET E201.1.
- ALL CRITICAL BRANCH LUMINAIRES ARE SWITCHED/CONTROLLED DURING NORMAL OPERATION AND OPERATES FROM EMERGENCY CIRCUIT UPON LOSS OF POWER.
- SHADED LUMINAIRE OR DEVICE INDICATES LUMINAIRE OR DEVICE IS CONNECTED TO AN EMERGENCY CIRCUIT.
- (B#) PUSH BUTTON REFERS TO SCENE QUANTITY. CONTROL STATION SHALL BE CAPABLE OF RAISE/LOWER AND SWITCHING ON/OFF FOR MULTIPLE SCENES AS INDICATED ON SHEETS AND THE LIGHTING SEQUENCE OF OPERATIONS (L#). COORDINATE QUANTITIES OF BUTTONS FOR CONTROL STATIONS WITH LIGHTING MANUFACTURER. REFER TO SHEET E-5.1.
- VACUANCY/OCCUPANCY SENSOR LAYOUT: SENSORS ARE SHOWN ON THE PLANS FOR DESIGN INTENT AND MAY NOT REPRESENT EVERY DEVICE. PROVIDE MANUFACTURER SPECIFIC FLOOR PLAN LAYOUTS SHOWING LOCATION, ORIENTATION, AND COVERAGE AREA OF EACH CONTROL DEVICE, SENSOR, AND CONTROLLER/INTERFACE. AREAS REQUIRING MULTIPLE SENSOR DEVICES FOR APPROPRIATE COVERAGE, SUBMIT SPECIFIC MANUFACTURER-APPROVED SENSOR LAYOUT AS AN OVERLAY DIRECTLY ON THE PROJECT DRAWINGS, EITHER IN PRINT OR APPROVED ELECTRONIC FORM.

LUMINAIRE KEY:

- F1 = FIXTURE TAG
1 = CIRCUIT NUMBER
a = SWITCH DESIGNATION
NL = SUBSCRIPT (IF APPLICABLE)
Z = ZONE DESIGNATION

*IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: F1 / 1 / a / NL

DEVICE KEY:

- A = MOUNTING (IF APPLICABLE)
1 = CIRCUIT NUMBER

*IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: A / 1

ELECTRICAL MOUNTING SUBSCRIPT KEY:

- A MOUNT AT TOP OF CENTERLINE ABOVE COUNTER OR BACKSPLASH
C MOUNT AT CEILING
H MOUNT ORIENTED HORIZONTALLY
L MOUNT IN CASEWORK
M MOUNT IN MODULAR FURNITURE
R MOUNT IN SURFACE RACEWAY
EWC ELECTRIC WATER COOLER

ELECTRICAL INSTALLATION NOTES:

- THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN. REFER TO THE ADA GUIDELINES FOR ALL CONFIGURATION DETAILS ON THIS PAGE FOR ADDITIONAL INFORMATION.
- CIRCUIT NUMBERS ARE SHOWN FOR CIRCUIT IDENTIFICATION. CIRCUITING SHALL AGREE WITH NUMBERING ON THE PANEL. PROVIDED COMMON NEUTRALS MAY NOT BE USED FOR BRANCH CIRCUITS. BALANCE THE LOAD ON PANEL AS EVENLY AS POSSIBLE BETWEEN EACH PHASE.
- LIFE SAFETY CRITICAL EQUIPMENT BRANCH WIRING FOR FEEDERS AND BRANCH CIRCUITS SHALL BE ROUTED IN SEPARATE RACEWAY, JUNCTION BOXES, PULL BOXES, AND CABINETS. WIRING FOR EACH BRANCH SHALL BE INDEPENDENT FROM OTHER BRANCHES, INCLUDING THE NORMAL BRANCH.
- FLUSH MOUNT ALL LIGHTING CONTROL DEVICES AT +42" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. DEVICES MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED.
- FLUSH MOUNT ALL DUPLEX RECEPTACLES AND TECHNOLOGY OUTLETS AT +18" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. RECEPTACLES AND OUTLETS MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED.
- ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIRESTOPS.
- CONNECTION FOR

SHEET NOTES:
1. REFER TO GENERAL NOTES ON SHEET E000.2.

KEYNOTES: (#)
1. EXISTING NORMAL LIGHT FIXTURE TO BE RELOCATED. LIGHT FIXTURE SHALL REMAIN CONNECTED TO EXISTING NORMAL CIRCUIT SERVING FIXTURE. REFER TO SHEET NEW WORK PLAN FOR MORE INFORMATION.
2. EXISTING NORMAL POWER CIRCUIT SERVING EXISTING LIGHTS IN THIS AREA TO BE REMOVED SHALL REMAIN FOR RE-USE AS INDICATED ON NEW WORK PLAN.
3. NEW LOCATION OF RELOCATED FIXTURE.
4. NEW LIGHT FIXTURE SHALL BE CONNECTED TO EXISTING EMERGENCY FIXTURE IN CORRIDOR.
5. NORMAL POWER LIGHT FIXTURES IN ROOM SHALL BE CONNECTED TO EXISTING CIRCUIT FROM PANEL B1-18-IN THAT SERVED OLD LIGHT FIXTURES IN AREA. CIRCUIT TO BE USED IS INDICATED AT FIXTURE.
6. CRITICAL BRANCH LIGHT FIXTURES IN ROOM SHALL BE CONNECTED TO EXISTING SPARE 20A, 1P CIRCUIT BREAKER IN PANEL B1-14-HC. CIRCUIT TO USE IS INDICATED AT FIXTURES. HOWEVER, IF INDICATED CIRCUIT HAS AN EXISTING LOAD, THEN CONNECT CIRCUIT TO A CIRCUIT BREAKER IN SAME PANEL THAT IS SPARE.
7. PROGRAM ROOM CONTROLLER AND WALL STATION SO OCCUPANCY SENSOR TURNS LIGHTS ON TO 50% UPON ACTIVATION, TURNS LIGHTS OFF AFTER 15 MINUTES OF NO ACTIVITY AND WALL STATION PROVIDES MANUAL DIMMING CONTROL.

STATE OF MISSOURI
BRUCE ELDON
HART
NUMBER 000000000
PROFESSIONAL ENGINEER

Bruce E. Hart
Missouri #E-22817

11/12/21

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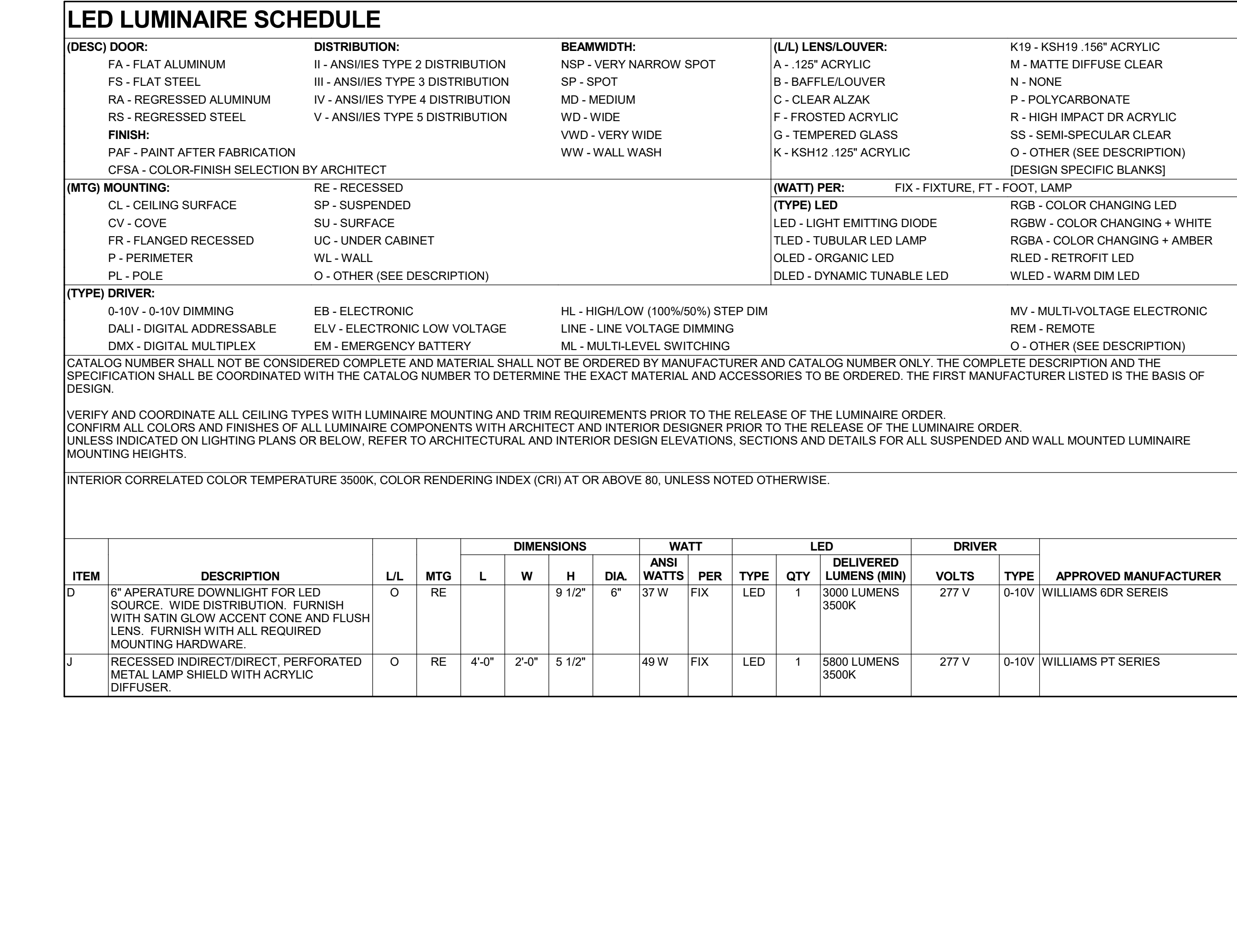
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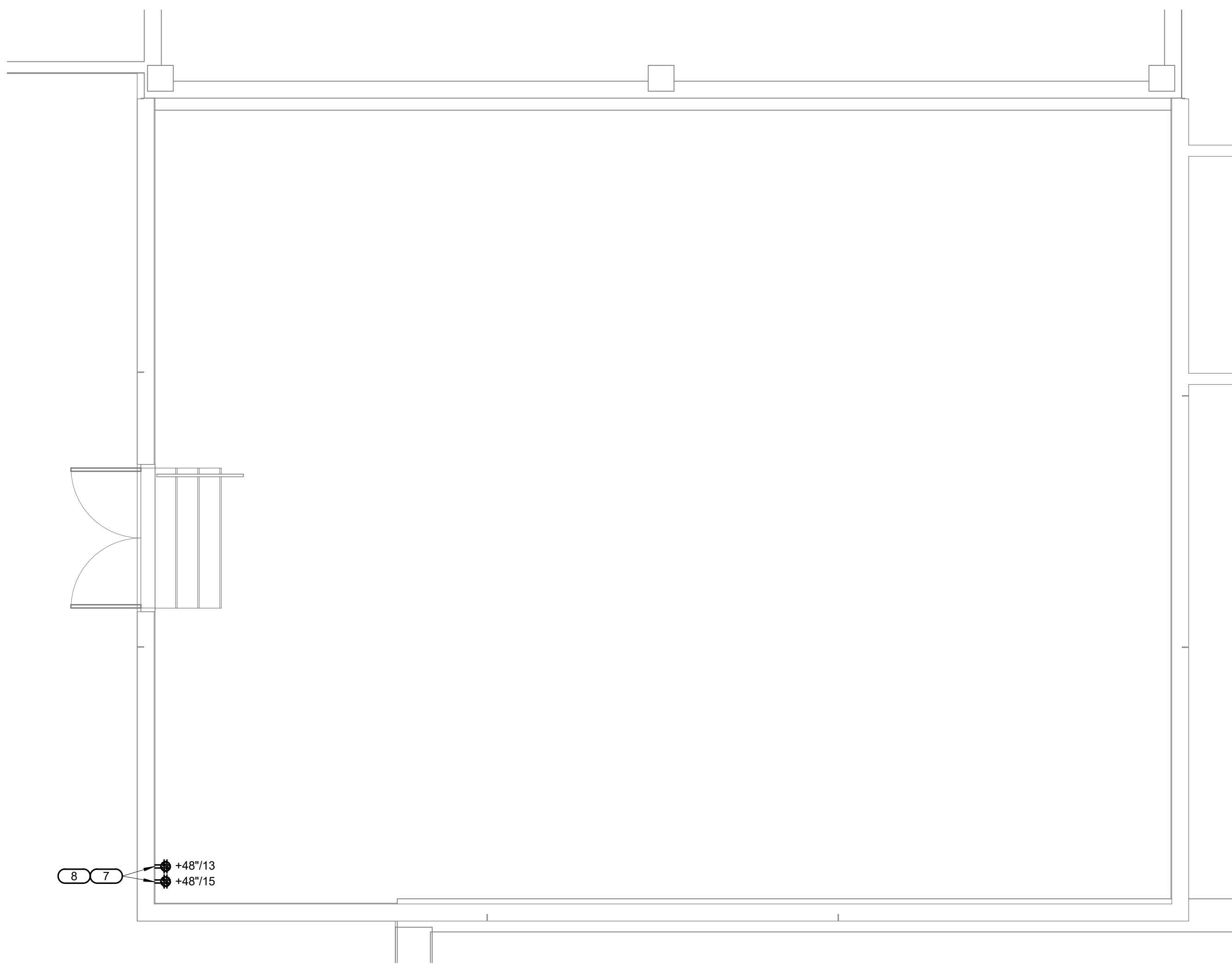
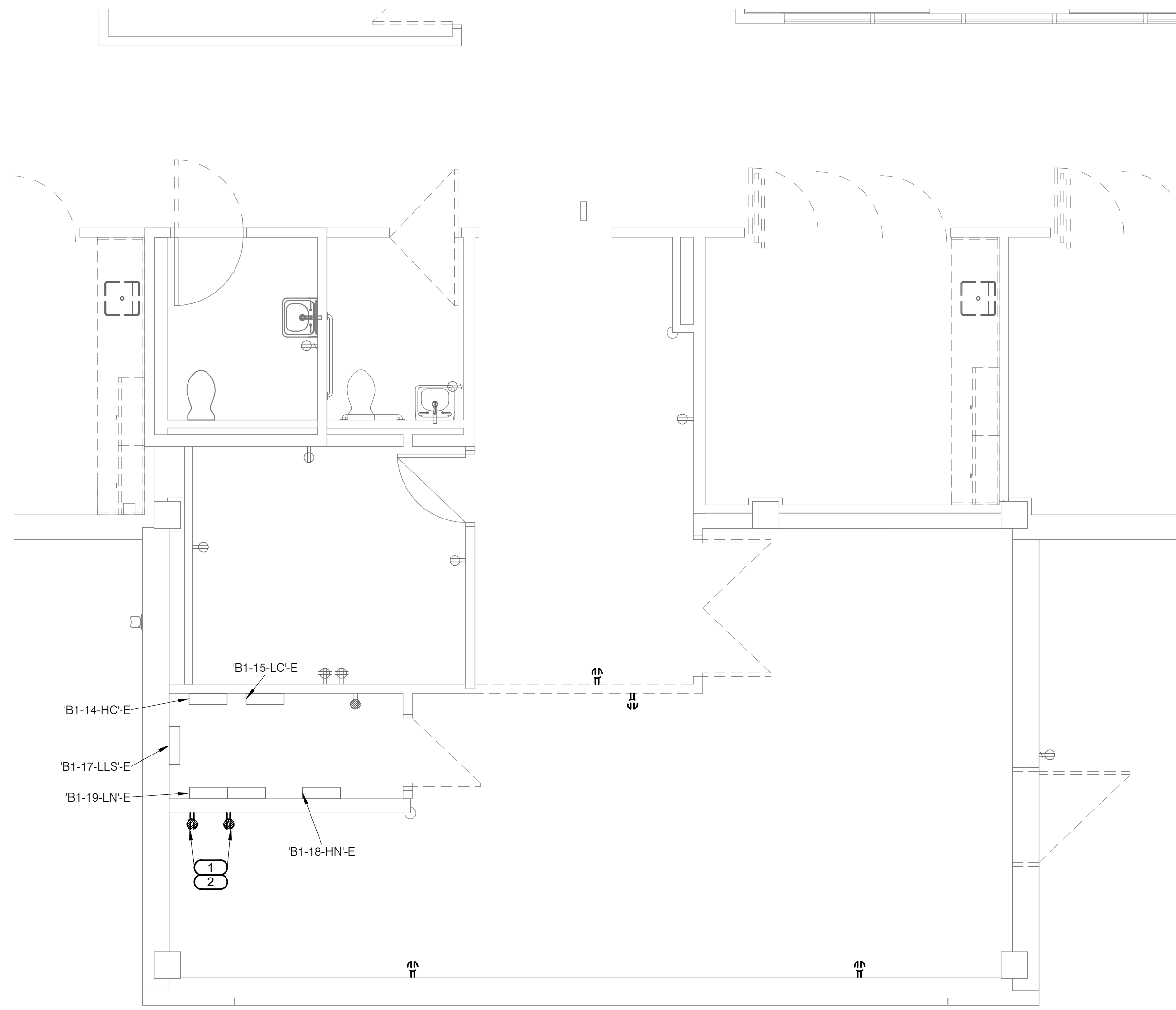
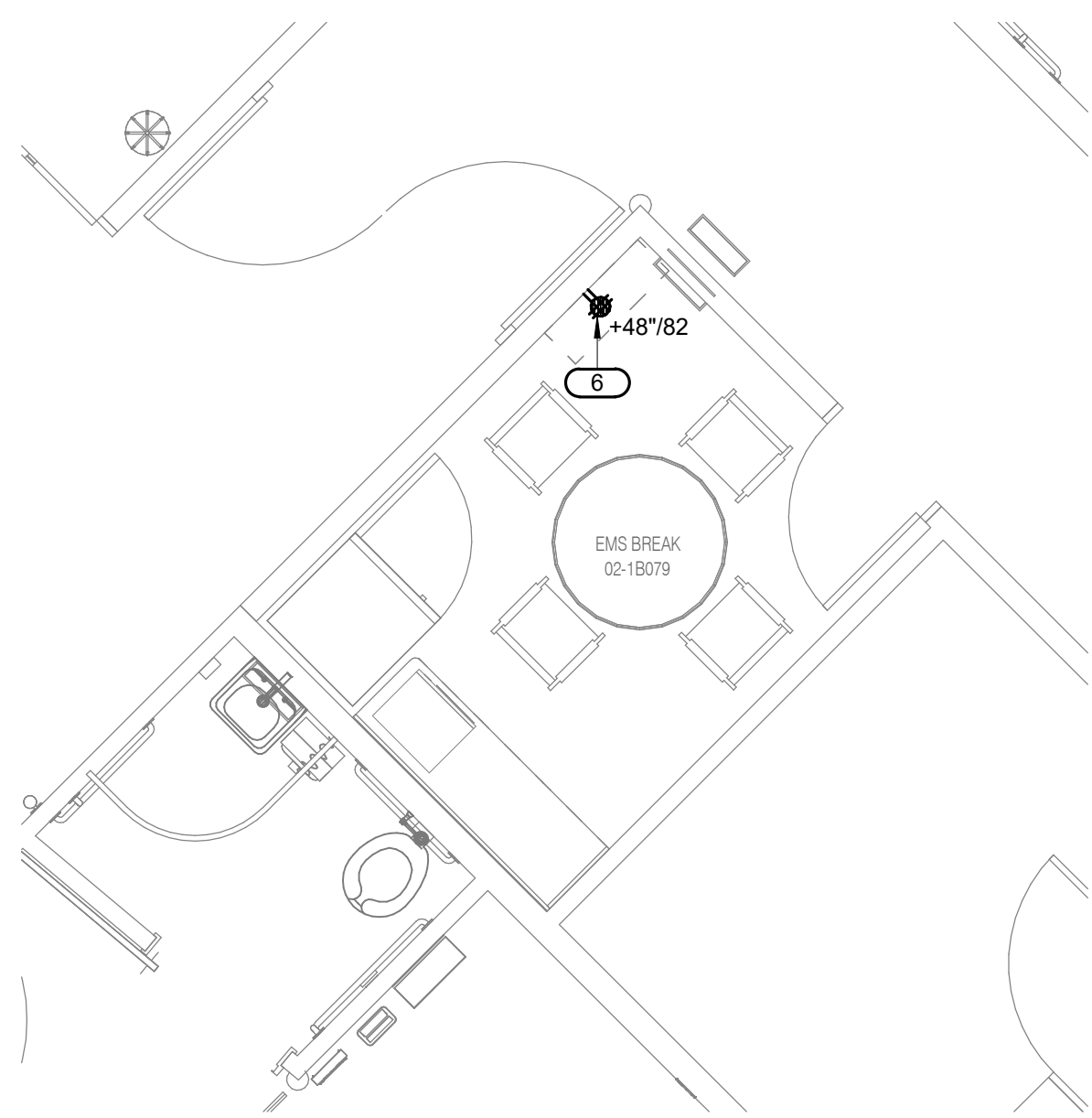
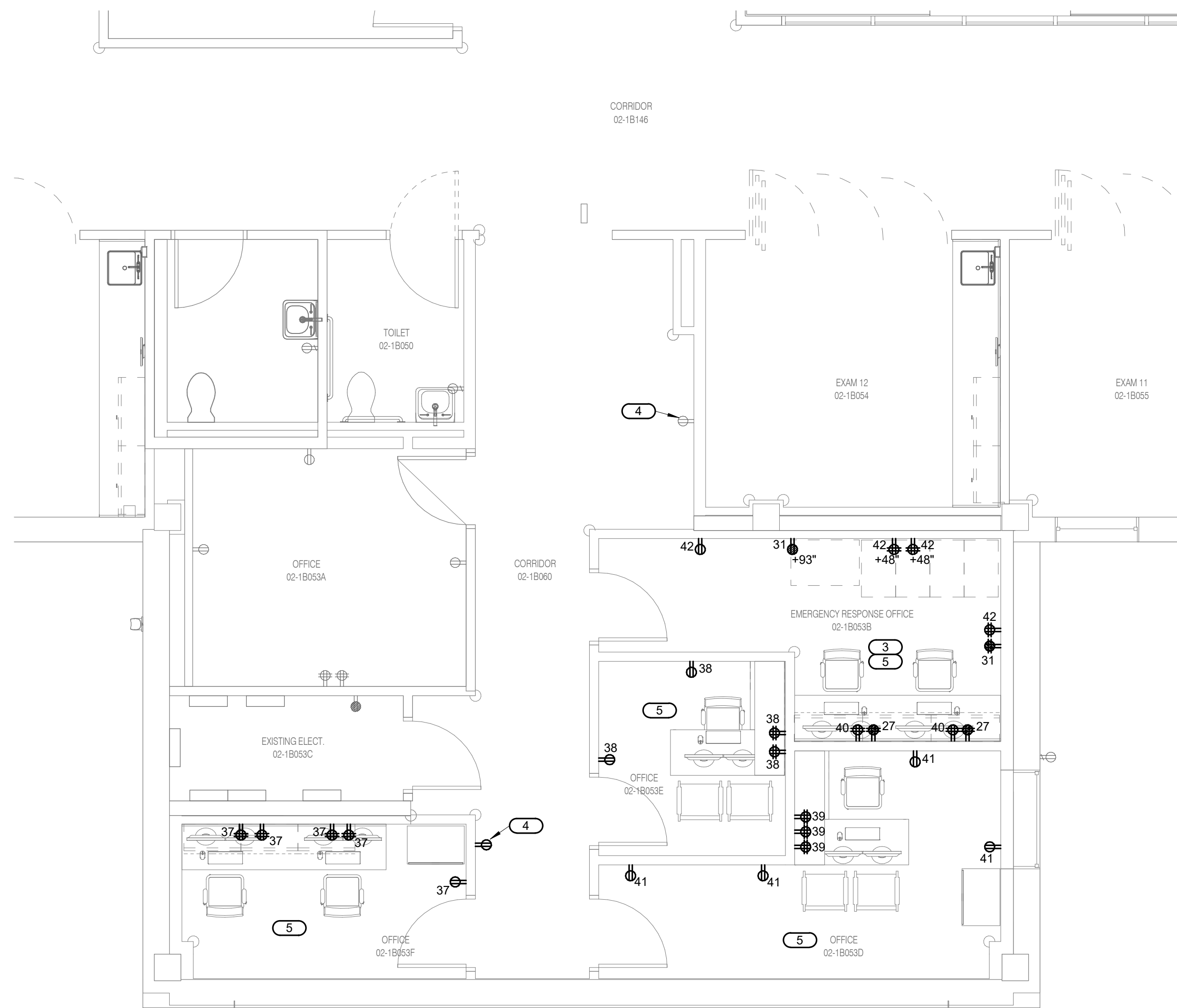
REFERENCE SCALE IN INCHES
0 1 2 3

3 DETAIL OF LMRC-211, LMRC-212 AND LMRC-213 ROOM CONTROLLER CABLING
NO SCALE

LED LUMINAIRE SCHEDULE													
(DESC) DOOR:		DISTRIBUTION:			BEAMWIDTH:			(L/L) LENS/LOUVER:					
FA - FLAT ALUMINUM		II - ANSI/IES TYPE 2 DISTRIBUTION			NSP - VERY NARROW SPOT			A - 125° ACRYLIC			K19 - KSH19 156° ACrylic		
FS - FLAT STEEL		III - ANSI/IES TYPE 3 DISTRIBUTION			SP - SPOT			B - BAFFLE/LOUVER			M - MATTE DIFFUSE CLEAR		
RA - REGRESSED ALUMINUM		IV - ANSI/IES TYPE 4 DISTRIBUTION			MD - MEDIUM			C - CLEAR ALZAK			N - NONE		
RS - REGRESSED STEEL		V - ANSI/IES TYPE 5 DISTRIBUTION			WD - WIDE			F - FROSTED ACRYLIC			P - POLYCARBONATE		
FINISH:					VWD - VERY WIDE			G - TEMPERED GLASS			R - HIGH IMPACT DR ACRYLIC		
PAF - PAINT AFTER FABRICATION					WW - WALL WASH			K - KSH12 125° ACRYLIC			SS - SEMI-SPECULAR CLEAR		
CFSA - COLOR-FINISH SELECTION BY ARCHITECT											O - OTHER (SEE DESCRIPTION)		
											[DESIGN SPECIFIC BLANKS]		
(MTG) MOUNTING:		RE - RECESSED			(WATT) PER:			FIX - FIXTURE, FT - FOOT, LAMP					
CL - CEILING SURFACE		SP - SUSPENDED			(TYPE) LED			RGB - COLOR CHANGING LED					
CV - COVE		SU - SURFACE			LED - LIGHT EMITTING DIODE			RGBW - COLOR CHANGING + WHITE					
FR - FLANGED RECESSED		UC - UNDER CABINET			TLED - TUBULAR LED LAMP			RGBA - COLOR CHANGING + AMBER					
P - PERIMETER		WL - WALL			OLED - ORGANIC LED			RLED - RETROFIT LED					
PL - POLE		O - OTHER (SEE DESCRIPTION)			DLED - DYNAMIC TUNABLE LED			WLED - WARM DIM LED					
(TYPE) DRIVER:		0-10V - 0-10V DIMMING			EB - ELECTRONIC			HL - HIGH/LOW (100%/50%) STEP DIM			MV - MULTI-VOLTAGE ELECTRONIC		
DALI - DIGITAL ADDRESSABLE		ELV - ELECTRONIC LOW VOLTAGE			LINE - LINE VOLTAGE DIMMING						REM - REMOTE		
DMX - DIGITAL MULTIPLE		EM - EMERGENCY BATTERY			ML - MULTILEVEL SWITCHING						O - OTHER (SEE DESCRIPTION)		
CATALOG NUMBER SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. THE COMPLETE DESCRIPTION AND THE SPECIFICATION SHALL BE COORDINATED WITH THE CATALOG NUMBER TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN.													
VERIFY AND COORDINATE ALL CEILING TYPES WITH LUMINAIRE MOUNTING AND TRIM REQUIREMENTS PRIOR TO THE RELEASE OF THE LUMINAIRE ORDER.													
CONFIRM ALL COLORS AND FINISHES OF ALL LUMINAIRE COMPONENTS WITH ARCHITECT AND INTERIOR DESIGNER PRIOR TO THE RELEASE OF THE LUMINAIRE ORDER.													
UNLESS INDICATED ON LIGHTING PLANS OR BELOW, REFER TO ARCHITECTURAL AND INTERIOR DESIGN ELEVATIONS, SECTIONS AND DETAILS FOR ALL SUSPENDED AND WALL MOUNTED LUMINAIRE MOUNTING HEIGHTS.													
INTERIOR CORRELATED COLOR TEMPERATURE 3500K, COLOR RENDERING INDEX (CRI) AT OR ABOVE 80, UNLESS NOTED OTHERWISE.													

1 FIRST FLOOR DEMOLITION - LIGHTING - OFFICES
1/4" = 1'-0"




3 SECOND FLOOR - POWER - MECH PENTHOUSE
 1/4" = 1'-0"

1 FIRST FLOOR DEMOLITION - POWER - OFFICES
 1/4" = 1'-0"

4 FIRST FLOOR - POWER - EMS BREAK
 1/4" = 1'-0"

2 FIRST FLOOR - POWER - OFFICES
 1/4" = 1'-0"

SHEET NOTES:

1. REFER TO GENERAL NOTES ON SHEET E000.2.

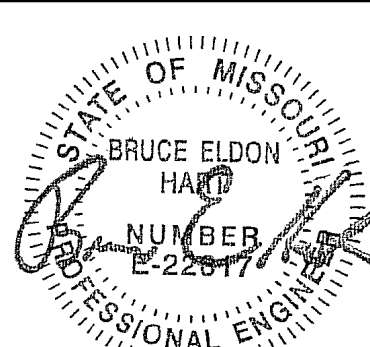
KEYNOTES: (#)

1. RADIO EQUIPMENT SERVED BY THESE RECEPTACLES AND LOCATED ON THIS WALL AND ASSOCIATED ROOF-MOUNTED ANTENNA SHALL BE RELOCATED BY THE OWNER'S VENDOR. COORDINATE RELOCATION WITH VENDOR.
2. EXISTING EMERGENCY CIRCUITS FROM PANEL B1-15-LC SERVING DEVICES TO BE REMOVED SHALL BE RE-USED TO SERVE NEW EMERGENCY DEVICES.
3. EMERGENCY POWER RECEPTACLES IN THIS ROOM SHALL BE CONNECTED TO EXISTING CIRCUITS FROM B1-15-LC THAT HAVE BEEN MADE SPARE BY DEMOLITION IN AREA. CIRCUITS TO BE RE-USED HAVE BEEN INDICATED AT DEVICES.
4. NEW DEVICE INDICATED SHALL CONNECT TO EXISTING 120V CIRCUIT FROM PANEL B1-15-LN SERVING INDICATED EXISTING DEVICE.
5. NORMAL POWER RECEPTACLES IN THIS ROOM SHALL BE CONNECTED TO EXISTING SPARE 20A, 1P CIRCUIT BREAKER(S) IN PANEL B1-19-LN. CIRCUIT TO WHICH EACH DEVICE SHALL BE CONNECTED HAS BEEN INDICATED. HOWEVER, IF INDICATED CIRCUIT HAS AN EXISTING LOAD, THEN CONNECT CIRCUIT TO A CIRCUIT BREAKER IN SAME PANEL THAT IS SPARE.
6. EMERGENCY RECEPTACLE FOR HAM RADIO EQUIPMENT INSTALLED BY OWNER'S VENDOR. RECEPTACLE SHALL BE MOUNTED WITHIN CABINET HOUSING RADIO EQUIPMENT. COORDINATE EXACT LOCATION WITH VENDOR AND CABINET INSTALLER. RECEPTACLE SHALL BE CONNECTED TO EXISTING SPARE 20A, 1P CIRCUIT BREAKER IN PANEL B1-19-LN AT CIRCUIT POSITION INDICATED.
7. EMERGENCY RECEPTACLE FOR HEAR AND MARGER RADIO EQUIPMENT INSTALLED BY OWNER'S VENDOR. COORDINATE EXACT LOCATION OF SURFACE-MOUNTED DEVICE WITH VENDOR. RECEPTACLE SHALL BE CONNECTED TO EXISTING SPARE 20A, 1P CIRCUIT BREAKER IN PANEL B1-17-LLS AT CIRCUIT POSITION INDICATED.
8. ASSOCIATED RADIO EQUIPMENT TO BE LOCATED IN EQUIPMENT RACK FURNISHED AND INSTALLED BY OWNERS VENDOR. CONTRACTOR SHALL PROVIDE A 4" CONCRETE HOUSEKEEPING PAD FOR RACK. COORDINATE EXACT LOCATION AND SIZE WITH VENDOR.



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Date 11/12/21
Job Number 3-21024
Drawn By PLR
Checked By JJJ

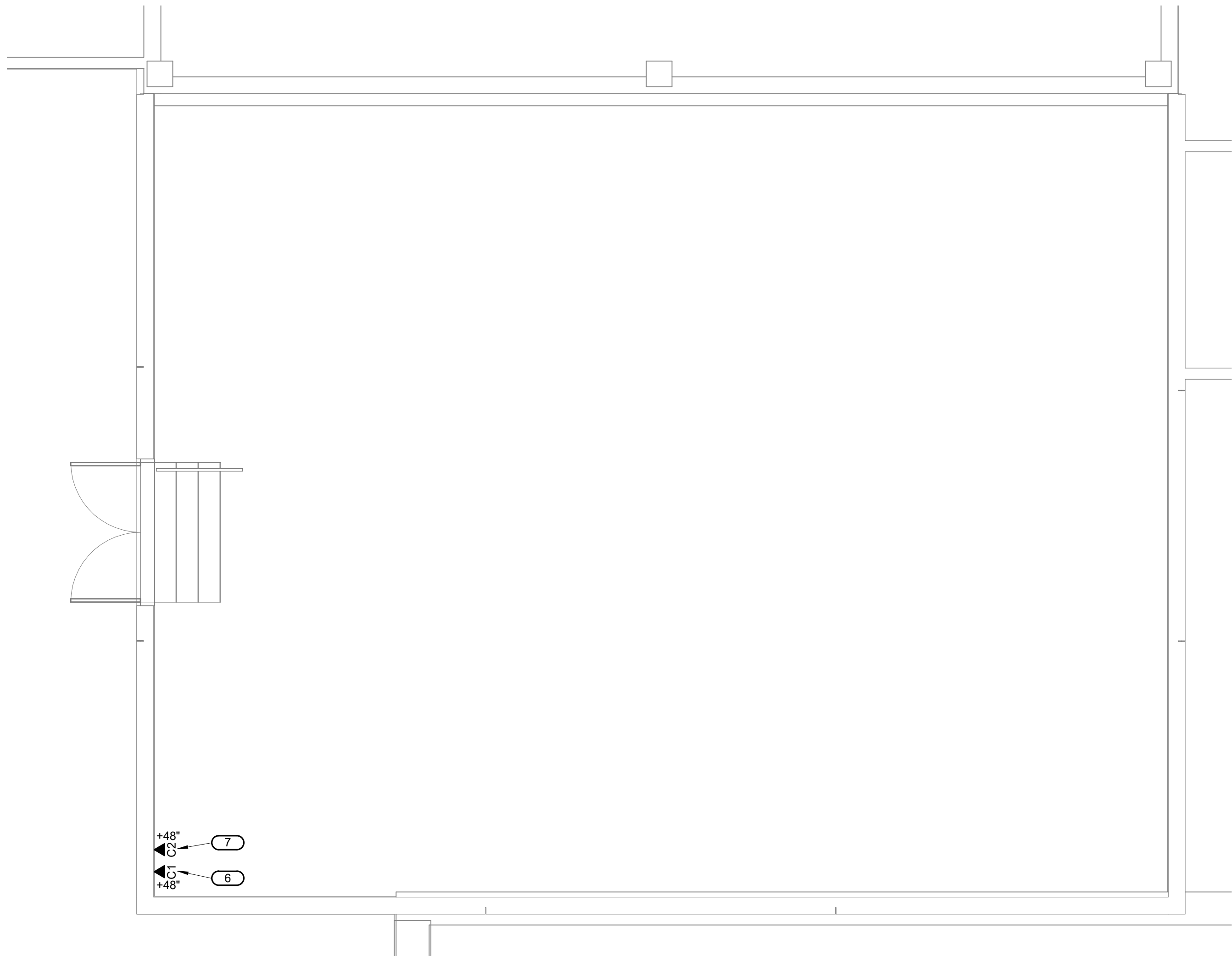
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Number Date Description
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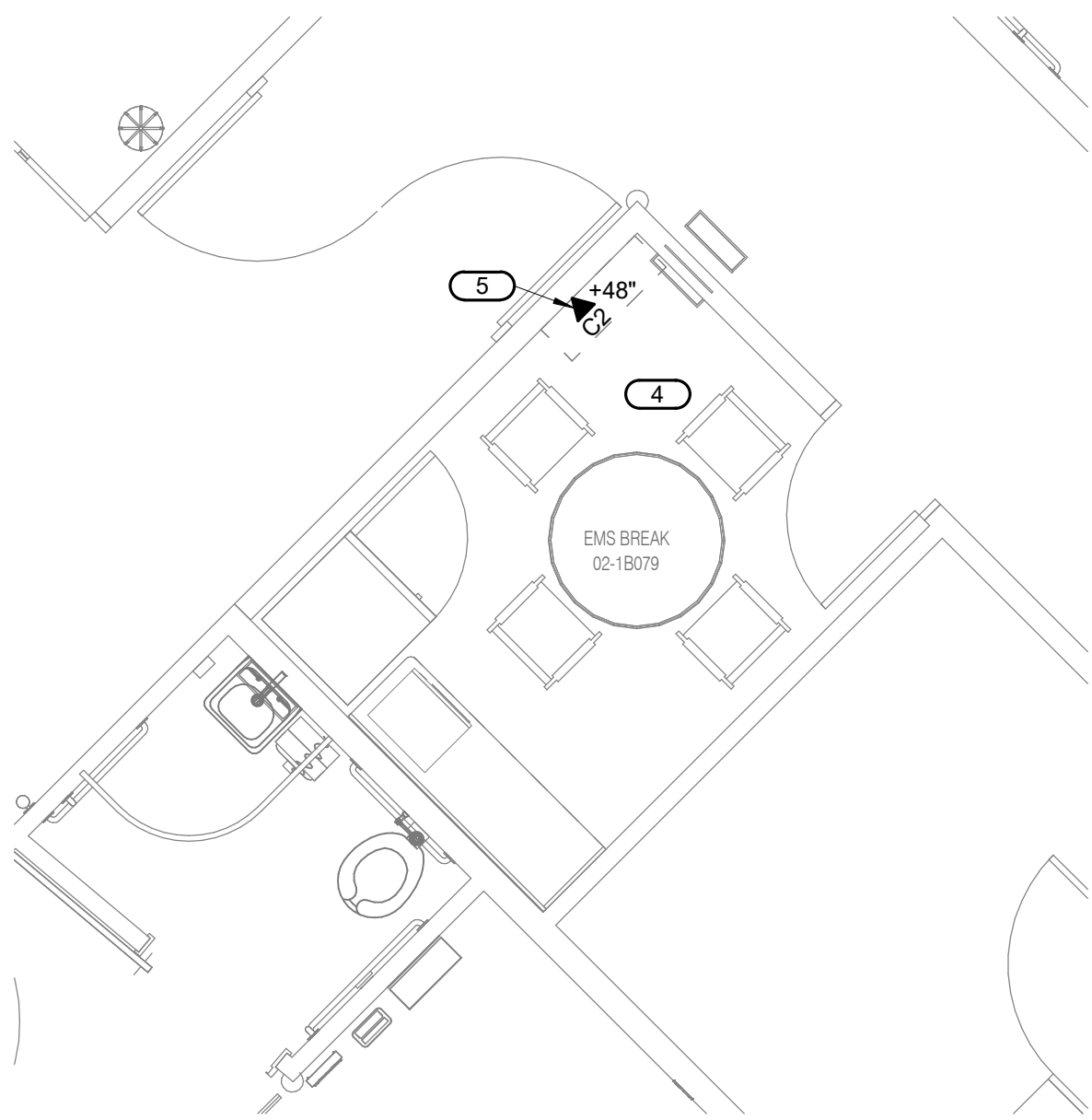
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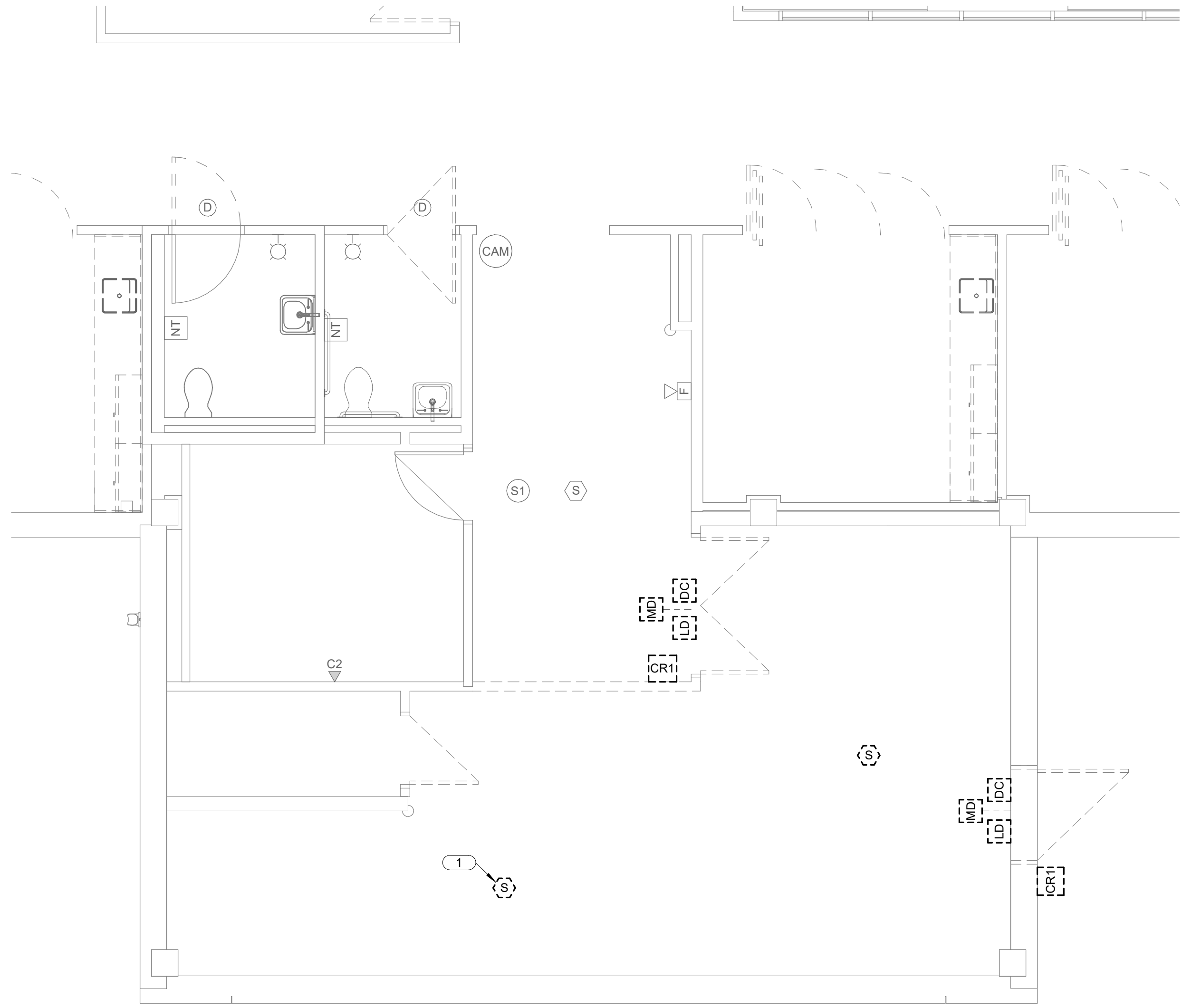
FIRST FLOOR - POWER - OFFICES



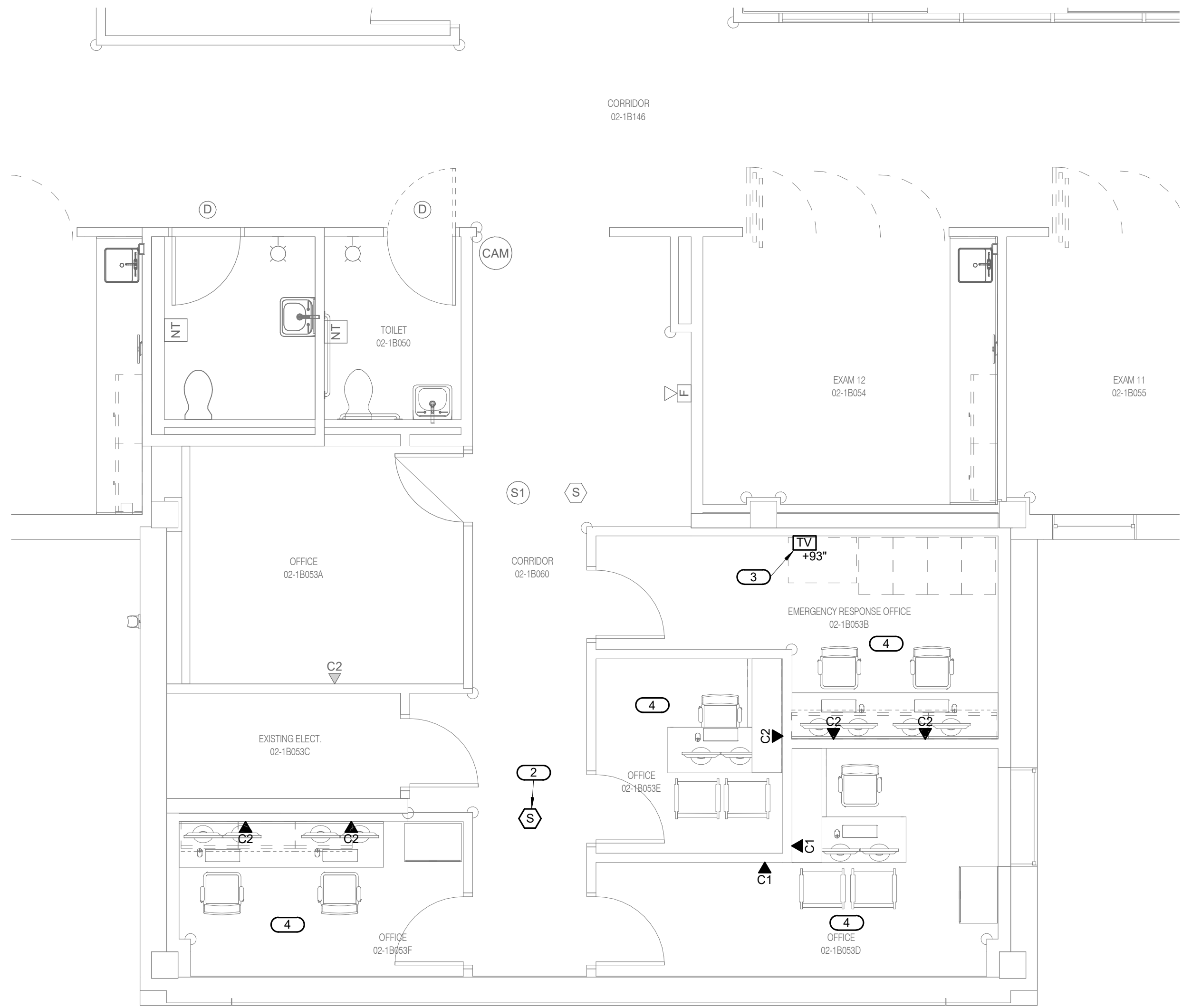
3 SECOND FLOOR - SYSTEMS - MECH PENTHOUSE
1/4" = 1'-0"



4 FIRST FLOOR - SYSTEMS - EMS BREAK
1/4" = 1'-0"



1 FIRST FLOOR DEMOLITION - SYSTEMS - OFFICES
1/4" = 1'-0"



2 FIRST FLOOR - SYSTEMS - OFFICES
1/4" = 1'-0"

SHEET NOTES:
1. REFER TO GENERAL NOTES ON SHEET E000.2.

- KEYNOTES: (#)**
1. DEVICE TO BE RELOCATED. REFER TO NEW WORK PLAN FOR MORE INFORMATION.
 2. NEW LOCATION FOR RELOCATED DEVICE. RE-CONNECT TO EXISTING FIRE ALARM SYSTEM AS REQUIRED.
 3. FURNISH AND INSTALL TV OUTLET AND COAX CABLE. CABLE SHALL TERMINATE IN ED IT CLOSET 1034.
 4. NEW DATA OUTLETS IN THIS ROOM SHALL BE FURNISHED AND INSTALLED PER SAINT LUKE'S STANDARDS. ASSOCIATED CAT6 CABLING INDICATED SHALL EXTEND TO AND CONNECT TO EXISTING PATCH PANELS IN ED IT CLOSET 1034.
 5. DATA OUTLET SHALL BE MOUNTED WITHIN CABINET HOUSING HAM RADIO EQUIPMENT. COORDINATE EXACT LOCATION WITH VENDOR AND CABINET INSTALLER.
 6. PROVIDE (1) CAT6 CABLE AND OUTLET FOR HEAR RADIO SYSTEM. CABLE SHALL EXTEND TO THE EXISTING DATA OUTLET AT EXISTING ED DESK STATION WHERE ASSOCIATED RADIO EQUIPMENT IS LOCATED. COORDINATE EXACT LOCATION OF EXISTING OUTLET WITH OWNER AND OWNER'S VENDOR.
 7. PROVIDE (2) CAT6 CABLES AND OUTLETS FOR MARCER RADIO SYSTEM. CABLES SHALL EXTEND TO THE EXISTING DATA OUTLETS AT EXISTING ED DESK STATION AND SECONDARY DESK WHERE ASSOCIATED RADIO EQUIPMENT IS LOCATED. COORDINATE EXACT LOCATION OF EXISTING OUTLETS WITH OWNER AND OWNER'S VENDOR.

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Missouri State Certificate of Authority E-201700830

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REFERENCE SCALE IN INCHES
0 1 2 3

STATE OF MISSOURI
BRUCE ELDON HART
NUMBER 2221.2
PROFESSIONAL ENGINEER

Bruce E. Hart
Missouri #E-22817

11/12/21

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Date	11/12/21
Job Number	3-21024
Drawn By	PLR
Checked By	JJJ

Revision		
Number	Date	Description
7	12-10-21	ASI #5

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E221.2

FIRST FLOOR - SYSTEMS - OFFICES