



LAB REMODEL

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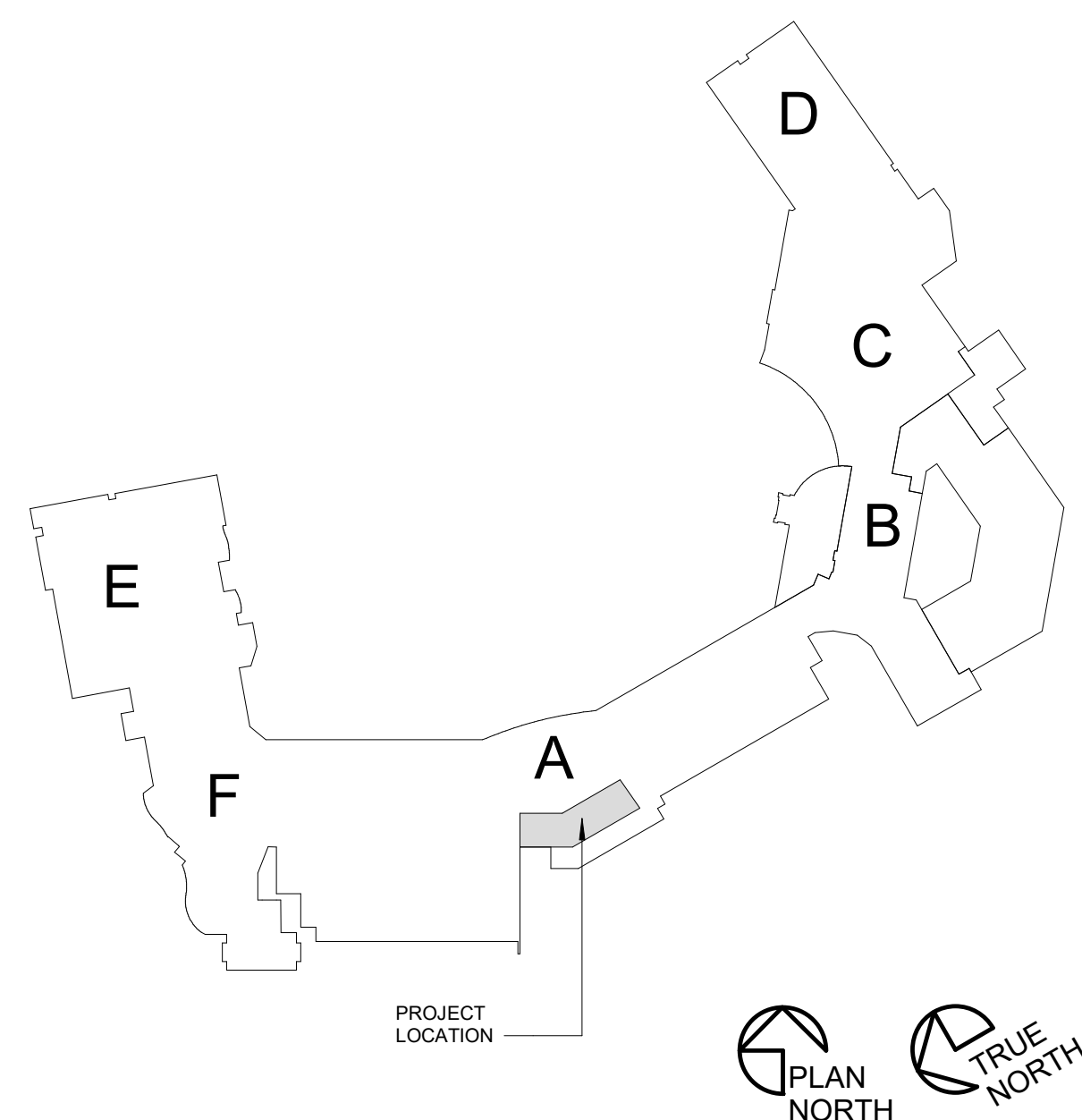
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ABBREVIATIONS

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

LOCATION PLAN



SHEET INDEX

SHEET NUMBER	SHEET NAME
GENERAL	
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DEMOLITION	
AD2.1	DEMOLITION PLAN
AD2.2	DEMOLITION REFLECTED CEILING PLAN
ARCHITECTURE	
AP2.1	ARCHITECTURAL PHASING PLAN
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A4.1	FIRST FLOOR FINISH PLAN, FINISH SCHEDULE & LEGEND
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PLUMBING	
PM000	SYMBOLS, ABBREVIATIONS, & GENERAL NOTES
DP2.0	PLUMBING BASEMENT DEMOLITION PLAN
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M2.1	MECHANICAL FIRST FLOOR PLAN AND SCHEDULE
MP2.1	MECHANICAL PIPING FIRST FLOOR PLAN
ELECTRICAL	
E000	SYMBOLS, ABBREVIATIONS, & GENERAL NOTES
DEL2.1	LIGHTING FIRST FLOOR DEMOLITION PLAN
DEP2.1	POWER FIRST FLOOR DEMOLITION PLAN
DEC2.1	COMMUNICATIONS FIRST FLOOR DEMOLITION PLAN
EL2.1	LIGHTING FIRST FLOOR PLAN
EP2.1	POWER FIRST FLOOR PLAN & SCHEDULE
EC2.1	COMMUNICATIONS FIRST FLOOR PLAN

Saint Luke's

EAST HOSPITAL

LAB REMODEL

100 NE ST LUKES BLVD,
LEE'S SUMMIT, MO 64086

Date	09.18.2020
Job Number	3-20030
Drawn By	BR
Checked By	AD

Revision		
Number	Date	Description

A0.1

CODE SUMMARY

Project Construction Purpose: Lab Renovation

Owner Information
Saint Luke's East Hospital
100 NE Saint Luke's Boulevard
Lee's Summit, MO 64086

Designer Information
ACI Boland Architects
1710 Wyandotte St.
Kansas City, MO 64108
Phone: (816) 763-9600
Fax: (816) 763-9757

Code Information
2018 International Building Code
2018 International Plumbing Code
2018 International Mechanical Code
2017 National Electrical Code (NFPA 70)
2018 International Fire 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
Note: If code requirements overlap, the most stringent shall apply. All code summary references list IBC section numbers. NFPA section numbers are in parentheses after or below.

Local Authority
Responding Fire Service: Lee's Summit Fire Department
Local Building Inspection: Lee's Summit, MO - Codes Administration Department

Type of Construction: Type 1-A - Section 602.2
(Type 1 - 332 Sprinklered - Section 18.1.6.1)

Code Review:
The area of renovation will have no impact on occupant load or egress from the existing space. New egress and occupant load will be routed through existing doors. There are no alterations to the existing life safety plan.

Occupancy Group: Laboratory: Business (B) - Section 304

Occupant Load:
Occupant Load Factor: Business = 100 gross Table 1004.1.2
Total Square Footage = 2,565/100 = 26 Occupants

Required Egress Width Per Occupant Served:
26 Occupants x 15 = 4' Required
2 Doors at 36" Width = 72" Provided

Required Fire Resistance Ratings (in hours)
Per NFPA 101 A.8.2.1.2:

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

CODE FOOTPRINT LEGEND

PARTITION TYPES

- 0 HR SMOKE PARTITION (SMOKE RESISTIVE)
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 2 HR FIRE SMOKE BARRIER
- 3 HR FIRE BARRIER

SYMBOLS

- FIRE EXIT
- OCCUPANT LOAD
- EXIT WIDTH PROVIDED
- EXIT WIDTH REQUIRED
- NEW FIRE EXTINGUISHER CABINET
- EXISTING FIRE EXTINGUISHER CABINET
- FE O
- FIRE EXTINGUISHER
- EXIT SIGN
- FIRE DOOR RATING
- TRAVEL DISTANCE
- STROBE
- STROBE/SPEAKER
- HORN/STROBE
- HORN
- FIRE PULL STATION
- FIRE SPRINKLER ZONE VALVE

A2 PARTIAL FIRST FLOOR LIFE SAFETY PLAN
1/4" = 1'-0"



*THIS DRAWING IS INTENDED TO BE PRINTED IN COLOR. USE BLACK AND WHITE COPIES AT YOUR OWN RISK.

E

D

C

B

A

6

5

4

3

2

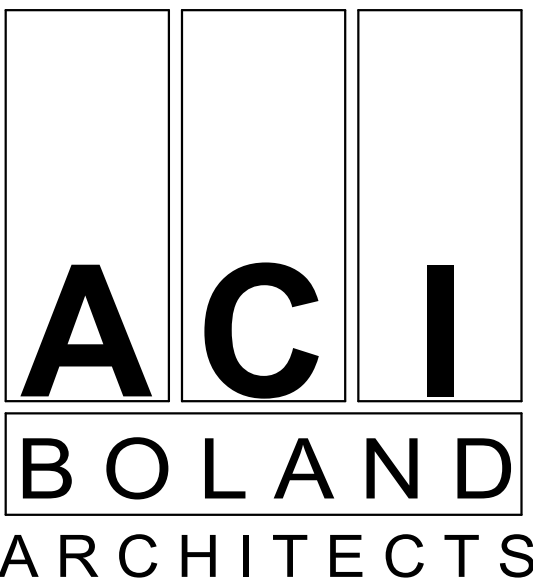
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GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH A.D.A. REQUIREMENTS AND ALL APPLICABLE LOCAL, STATE, AND FEDERAL BUILDING CODES AND REGULATIONS.
- THE GENERAL 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.
- THE GENERAL CONTRACTOR TO PROVIDE ALL REQUIRED LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO MEET AND COMPLETE THE REQUIREMENTS OF THE NEW CONSTRUCTION.
- 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.
- THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL NOT CLOSE OR OBSTRUCT WALKWAYS, EXITS, OR OTHER FACILITIES USED BY OCCUPANTS OF THE BUILDING WITHOUT WRITTEN PERMISSION FROM AUTHORITIES HAVING JURISDICTION.
- THE GENERAL CONTRACTOR SHALL CONDUCT ALL OPERATIONS IN A SAFE WORKING MANNER TO PREVENT DAMAGE OR INJURY TO ADJACENT SPACES, BUILDING, STRUCTURE, OTHER FACILITIES, AND PERSONS.
- IF MATERIALS 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.
- THE GENERAL CONTRACTOR SHALL FURNISH AND INSTALL CONCEALED FIRE-TREATED WOOD BLOCKING BEHIND ALL CABINETS, TOILET ACCESSORIES, PLUMBING FIXTURES, AND OTHER WALL-MOUNTED ITEMS AS REQUIRED FOR ADEQUATE SUPPORT.
- REMODEL/RENOVATION NOTES**
 - THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND NOTIFY 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.
 - THE 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.
 - 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.



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MEP CONSULTANT

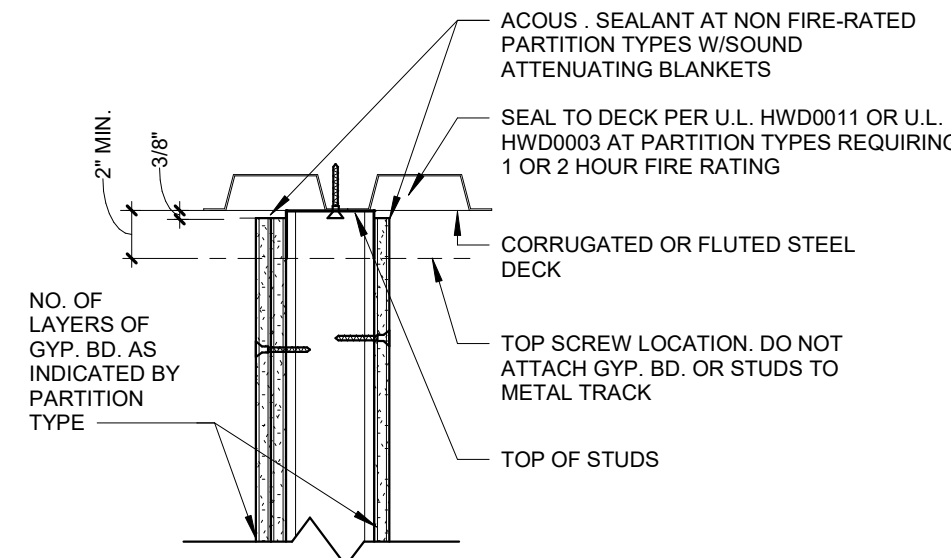
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PARTITION GENERAL NOTES

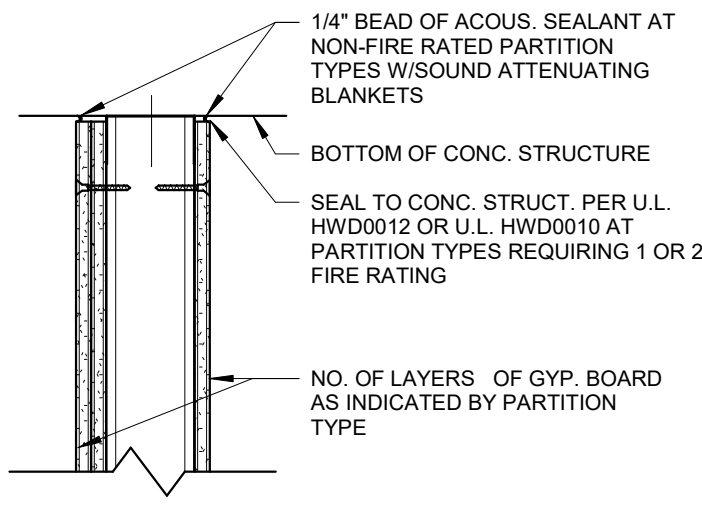
- UNLESS NOTED OTHERWISE, ALL INTERIOR METAL STUDS ARE 3/8" THICK. REFER TO SUFFIX SCHEDULE BELOW FOR LOCATIONS OF METAL STUDS OTHER THAN 3/8" THICK. NOTE: STUD THICKNESS (GAUGE) MUST CONFORM TO MANUFACTURER'S RECOMMENDATIONS FOR SPAN (HEIGHT OF STUD).
- WHERE THE PARTITION TYPE INDICATION IS SHOWN WITH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

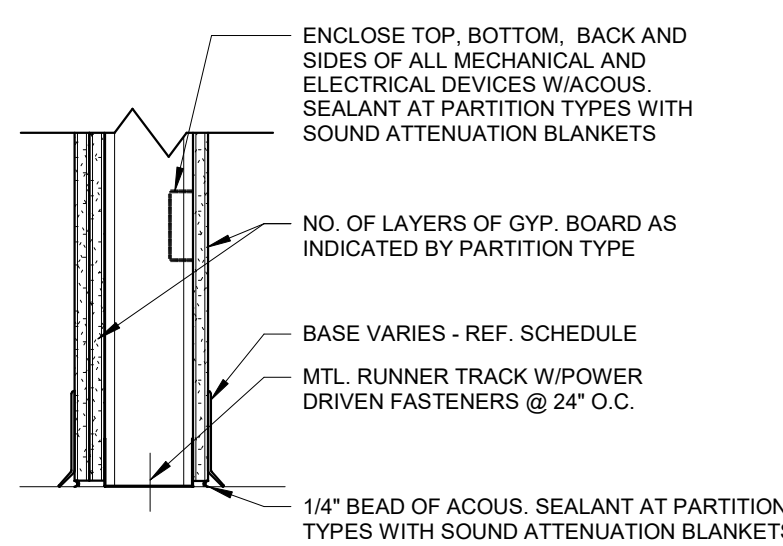
THE LOCATION OF A CHANGE IN THE PARTITION TYPE IS INDICATED BY A WALL TAG.
- THE CORRESPONDING RATED ASSEMBLIES ARE INDICATED BELOW THE PARTITION TYPES.
- PARTITION TYPE DESIGNATIONS ARE INDICATED ON THE FLOOR PLAN DRAWINGS.
- PARTITION TYPES DO NOT INCLUDE APPLIED FINISHES CALLED FOR IN THE ROOM FINISH 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.



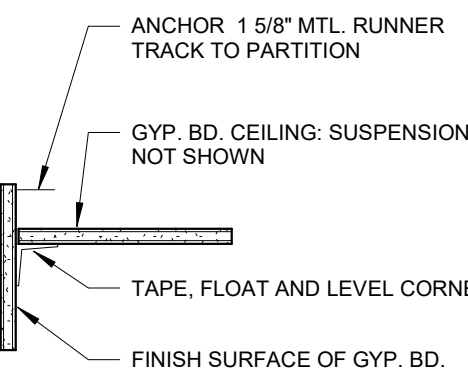
2 TOP ANCHORAGE OF PARTITION TO METAL DECK
1/4" = 1'-0"



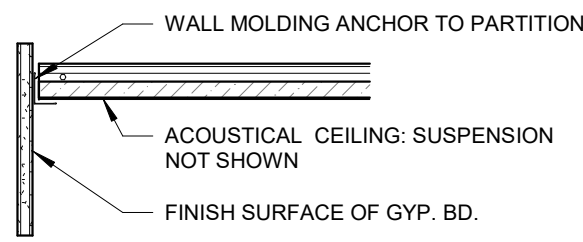
3 TOP ANCHORAGE OF PARTITION TO CONCRETE STRUCTURE. SEE 3A AND 3B FOR ADDITIONAL INFORMATION
1/4" = 1'-0"



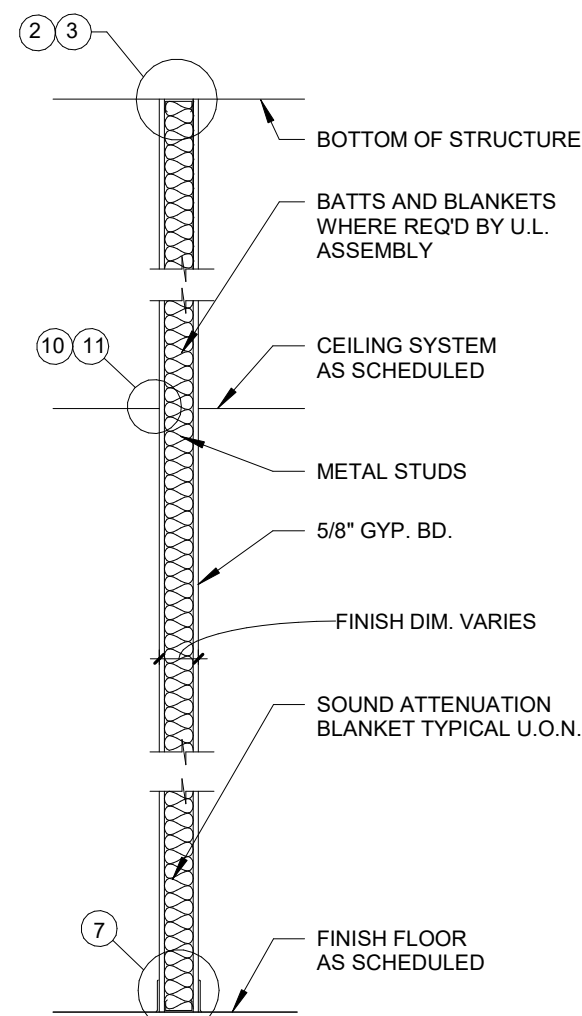
7 FLOOR ANCHORAGE OF PARTITION
1/4" = 1'-0"



10 SUSPENDED GYP. BD. CEILING
1/4" = 1'-0"



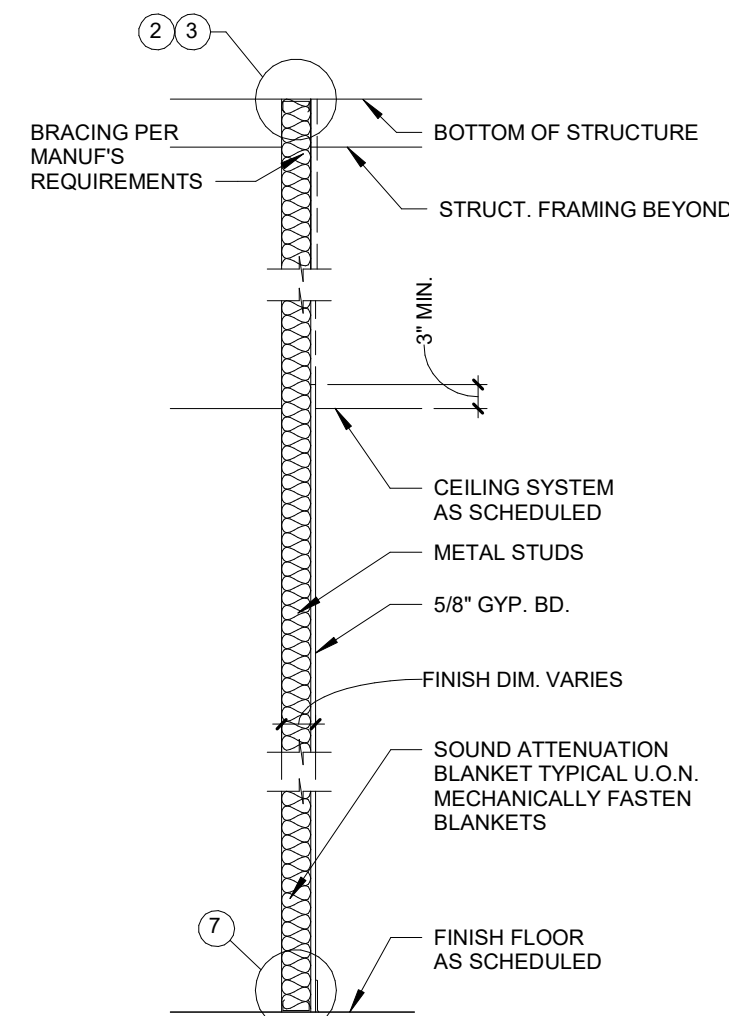
11 CEILING DETAILS FOR GYP. BD. VERTICAL SURFACES
1/4" = 1'-0"



A GYPSUM BOARD BOTH SIDES NON-RATED - TYPICAL
1/2" = 1'-0"

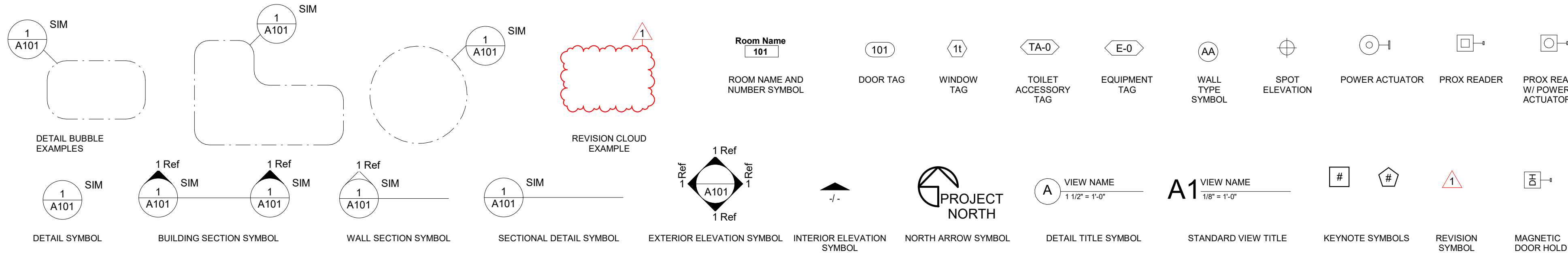
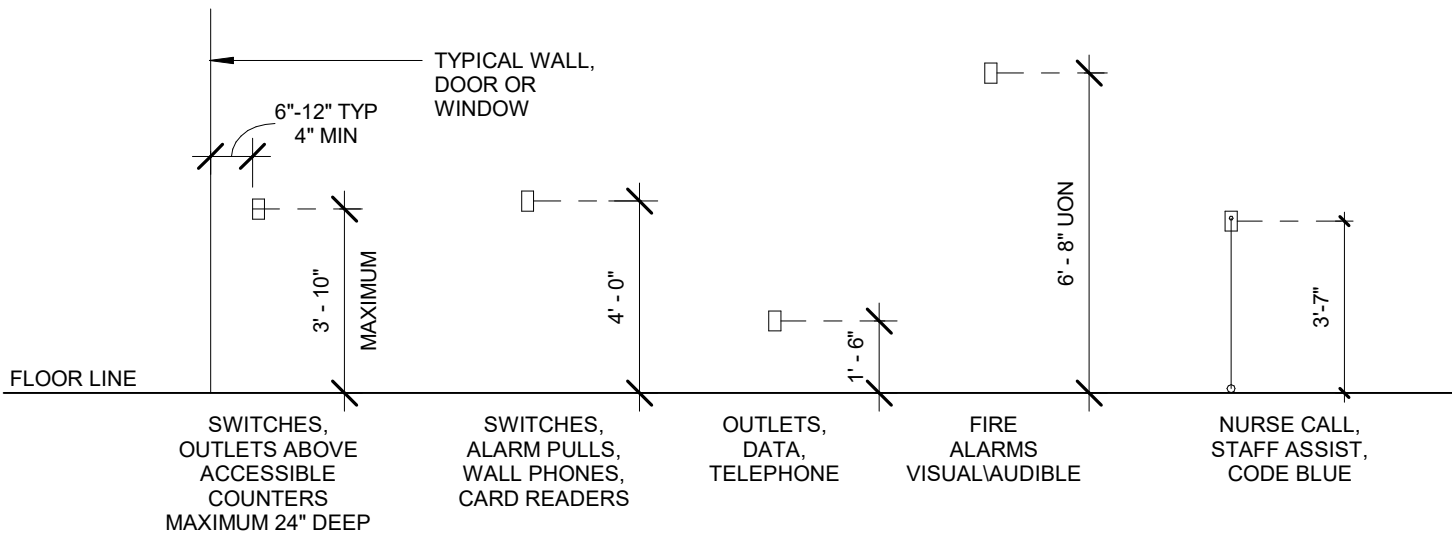
U.L. DESIGNATIONS AT RATED WALLS AS INDICATED ON LIFE SAFETY PLAN

--- 1 HOUR FIRE SEPARATION
U.L. U465 FOR 3 5/8" STUDS
U.L. U442 AT TILED WALLS
U.L. U451 FOR 2 1/2" STUDS



K GYPSUM BOARD ONE SIDE ONLY, CEILING HEIGHT
1/2" = 1'-0"

L GYPSUM BOARD ONE SIDE ONLY, FULL HEIGHT
1/2" = 1'-0"



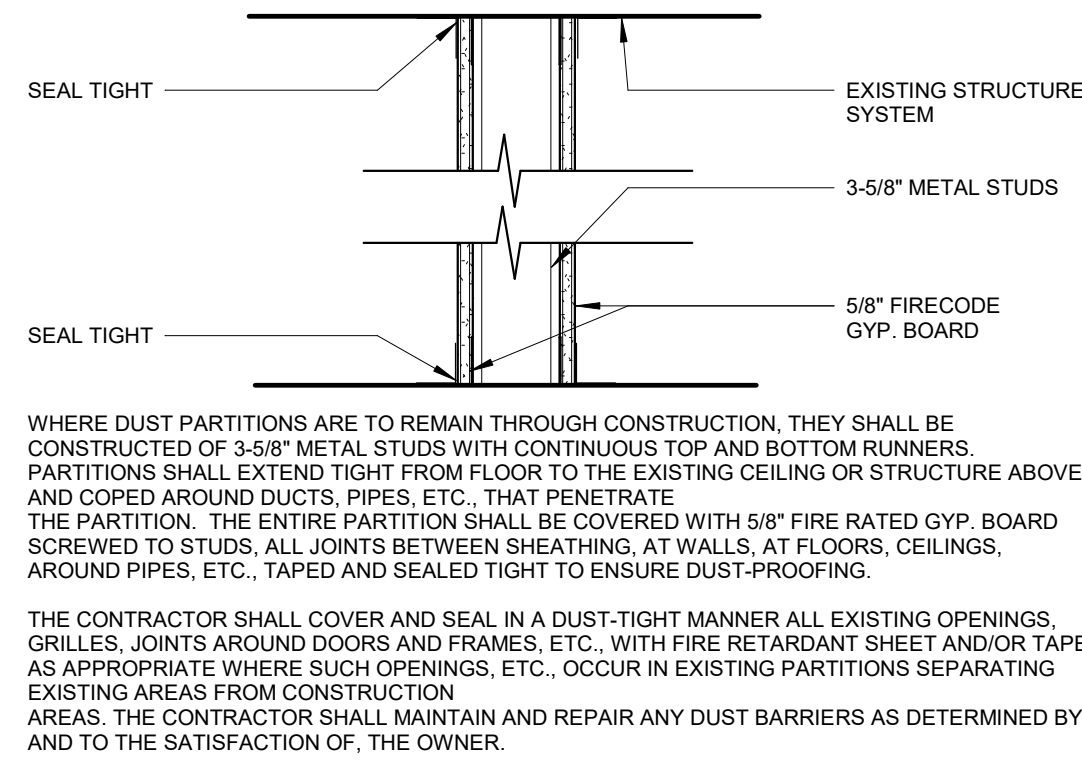
Saint Luke's
EAST HOSPITAL
LAB REMODEL
100 NE ST LUKES BLVD,
LEE'S SUMMIT, MO 64086

Date 09.18.2020
Job Number 3-20030
Drawn By BR
Checked By AD

Revision
Number Date Description

A0.3

GENERAL NOTES, LEGENDS,
SYMBOLS, & PARTITION TYPES



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

DEMOLITION LEGEND

- NOT IN SCOPE
- EXISTING WALL, DOOR, FRAME AND HARDWARE TO REMAIN
- WALLS, DOORS, DOOR/WINDOW FRAMES, EQUIPMENT, FIXTURES, ETC., INDICATED BY DASHED LINES WITHIN THE AREA OF CONSTRUCTION SHALL BE REMOVED. REFER TO THIS SHEET FOR ARCHITECTURAL DEMOLITION NOTES.
- DUST PARTITIONS - THE CONTRACTOR SHALL MAKE EVERY EFFORT TO ENSURE THE EXISTING BUILDING TO BE COMPLETELY PROTECTED AGAINST INFILTRATION OF DUST AND MOISTURE DURING THE COURSE OF DEMOLITION/CONSTRUCTION WITH DUST PARTITIONS ACROSS CORRIDORS AND OPENINGS THRU EXISTING WALLS. ALL CONSTRUCTION WORK CREATING ANY TYPE OF DUST THROUGHOUT THE BUILDING SHALL BE SHIELDED BY DUST PROTECTION. PROVIDE DOOR OPENING AS REQUIRED FOR EMERGENCY EGRESS.
- DUST BARRIERS - (2) LAYERS 6 MIL PVC W/ STUDS @ 4'-0" O.C. DUST BARRIER. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO ENSURE THE EXISTING BUILDING TO BE COMPLETELY PROTECTED AGAINST THE INFILTRATION OF DUST & MOISTURE DURING THE COURSE OF DEMOLITION/CONSTRUCTION. PROVIDE DOOR OPENING AS REQUIRED FOR EMERGENCY EGRESS.

GENERAL DEMOLITION NOTES

- THE OWNER SHALL VACATE THE EXISTING ROOMS AS INDICATED ON THE PLAN AND BE RESPONSIBLE FOR THE REMOVAL OF ANY EQUIPMENT WHICH IS TO REMAIN THE PROPERTY OF THE OWNER PRIOR TO ANY WORK DONE BY THE CONTRACTOR FOR THIS PORTION OF THE SEQUENCE.
- 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 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 OR SALVAGED FOR RELOCATION.
- 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.
- WHERE NEW FINISHES ARE CALLED FOR, REMOVE AND DISCARD EXISTING FLOORING, CEILING 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 CEILING 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.
- WHERE EXISTING PHONE, DATA, OR PHONE/DATA OUTLETS ARE REMOVED, THE CONTRACTOR SHALL USE EXTREME CARE IN PULLING WIRE THROUGH THE EXISTING CONDUITS, COIL AND WRAP ABOVE EXISTING CEILING FOR REUSE.
- WHERE EXTERIOR WALLS, WINDOWS, AND/OR DOORS ARE BEING REMOVED, THE CONTRACTOR WILL BE RESPONSIBLE TO CONSTRUCT TEMPORARY PARTITIONS AS REQUIRED TO ENSURE THAT THE EXISTING BUILDINGS REMAIN WATER/TIGHT, SECURE, AND WITHOUT DRAFTS DURING DEMOLITION WORK. THESE PARTITIONS SHALL REMAIN IN PLACE DURING THE NEW CONSTRUCTION WORK, OR AS REQUIRED TO MAINTAIN THIS SEPARATION.

KEYNOTES - DEMO PLAN

NUMBER	COMMENTS
1	REMOVE SINK, CABINETS, COUNTERTOP AND ASSOCIATED PLUMBING AND ELECTRICAL ITEMS. RE: MEP DRAWINGS FOR ADDITIONAL INFORMATION.
2	REMOVE EXISTING DOOR AND HARDWARE. SALVAGE TO OWNER.
3	REMOVE EXISTING FIRE EXTINGUISHER CABINET AND SALVAGE FOR REUSE. RE: LIFE SAFETY PLAN FOR RELOCATION.
4	COORDINATE REMOVAL OF EXISTING MODULAR CASEWORK, MODULAR WALLS, AND MODULAR PANELS WITH OWNER & FURNITURE VENDOR. TERMINATE AND CAP ALL ELECTRICAL AS REQUIRED. RE: MEP.
5	COORDINATE REMOVAL & RELOCATION OF EXISTING FURNITURE & EQUIPMENT WITH OWNER & FURNITURE VENDOR.
6	PATCH & REPAIR EXISTING FLOOR AS REQUIRED AFTER THE REMOVAL OF WALLS.
7	REMOVE EXISTING FLOORING & WALL BASE. PREP SUBFLOOR TO RECEIVE NEW FLOORING.
8	PREP WALLS TO RECEIVE NEW WALL BASE AND/OR FINISHES. RE: FINISH PLAN & SCHEDULE.
9	COORDINATE REMOVAL OF EXISTING POWER POLES WITH OWNER & FURNITURE VENDOR. CAP ALL WIRES & CONDUIT AND PATCH FLOORING AS REQUIRED. SALVAGE POLES FOR REUSE. RE: MEP FOR ADDITIONAL INFORMATION.
10	REMOVE EXISTING TV AND ASSOCIATED BRACKET AS REQUIRED TO INSTALL NEW FINISHES. RE: FINISH PLAN & SCHEDULE. CAP ALL WIRES & CONDUIT AS REQUIRED. SALVAGE TV AND BRACKET FOR REINSTALLATION. RE: MEP FOR ADDITIONAL INFORMATION.
11	REMOVE EXISTING COMPUTER, MONITOR, AND ACCESSORIES. SALVAGE TO OWNER FOR RELOCATION.
12	EXISTING ANALYZERS TO REMAIN. COORDINATE RELOCATION WITH OWNER AS REQUIRED FOR INSTALLATION OF NEW ANALYZERS.
13	REMOVE EXISTING LIGHT FIXTURES. SALVAGE FOR RELOCATION. RE: MEP.
14	REMOVE EXISTING SUPPLY DIFFUSERS. SALVAGE FOR RELOCATION. RE: MEP.
15	REMOVE EXHAUST DUCT AND REPLACE CEILING TILES AS REQUIRED TO ACCOMMODATE FUME HOOD RELOCATION. RE: MEP.
16	COORDINATE REMOVAL OF EXISTING POWER POLES WITH OWNER AND FURNITURE VENDOR. CAP ALL WIRES & CONDUIT AS REQUIRED. SALVAGE POLES FOR RELOCATION. RE: DEMO PLAN & MEP. REPLACE INDIVIDUAL CEILING TILES AFTER POWER POLES ARE RE-LOCATED.
17	REMOVE EXISTING CEILING GRID AND TILES.
18	COORDINATE TEMPORARY RELOCATION OF FURNITURE & EQUIPMENT WITH OWNER AND FURNITURE VENDOR AS REQUIRED TO PERFORM NEW WORK.
19	REMOVE EXISTING DOOR, FRAME ETR. SALVAGE HARDWARE FOR RE-INSTALL. PREP FRAME FOR NEW PAINT.
20	COORDINATE REMOVAL OF EXISTING FURNITURE WITH FURNITURE VENDOR AS REQUIRED TO PERFORM NEW WORK. RE: MEP.
21	REMOVE EXISTING VWC & WALL PROTECTION. PREP WALLS TO RECEIVE NEW WALL BASE AND FINISHES. RE: FINISH PLAN & SCHEDULE.
22	REMOVE EXISTING CEILING TILES. GRID ETR.
23	FIELD VERIFY LOCATION OF EXISTING MAIL BOX ON CORRIDOR SIDE. OPEN INTERIOR WALL TO INSTALL FIRE RATED 5-SIDED GYPSUM BOARD BOX AROUND MAIL BOX.
24	FIELD VERIFY LOCATION OF EXISTING ZONE VALVE BOX ON CORRIDOR SIDE. OPEN INTERIOR WALL TO INSTALL FIRE RATED 5-SIDED GYPSUM BOARD BOX AROUND ZVB.



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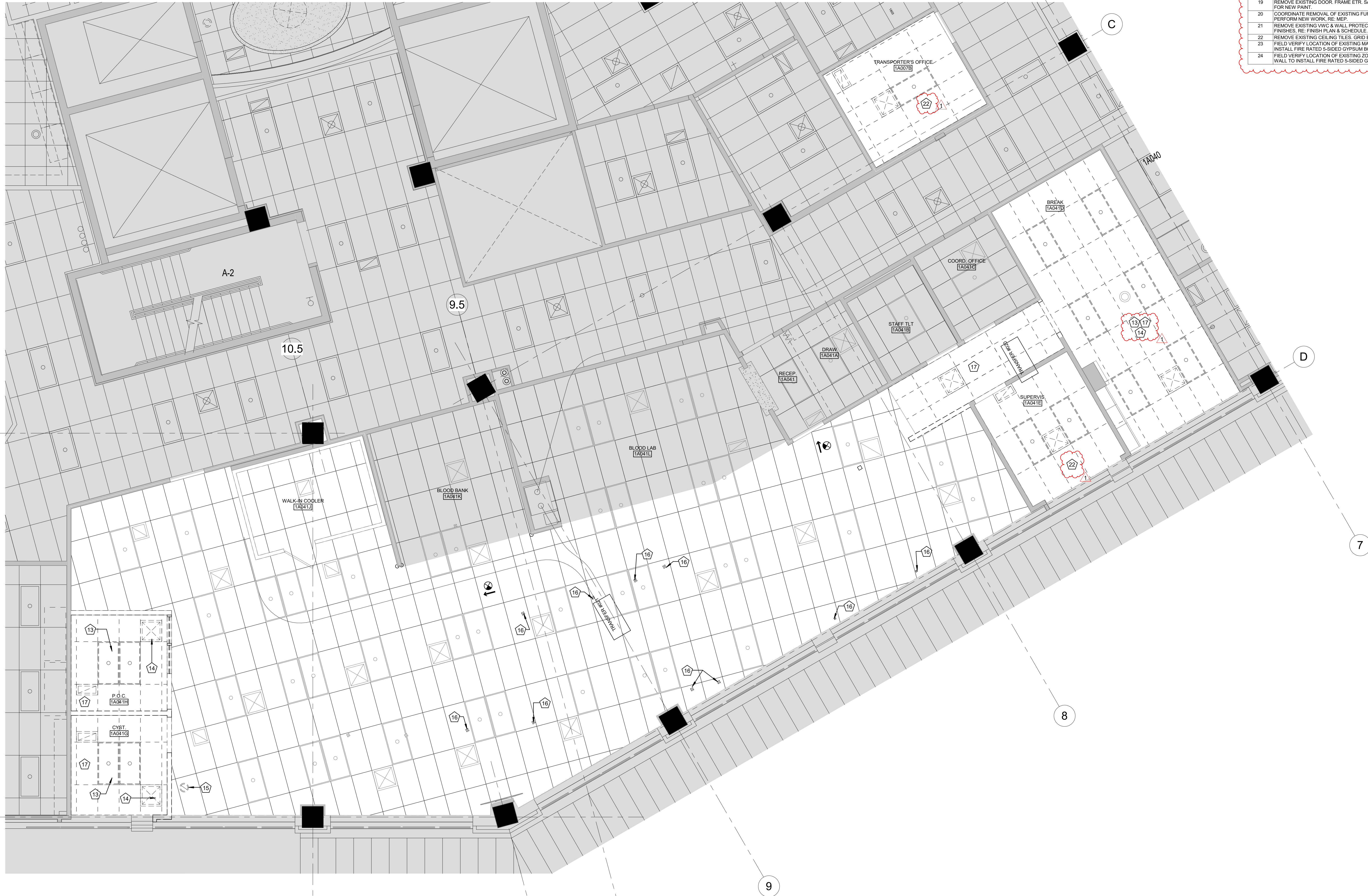
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1 10.12.20 ADD 01

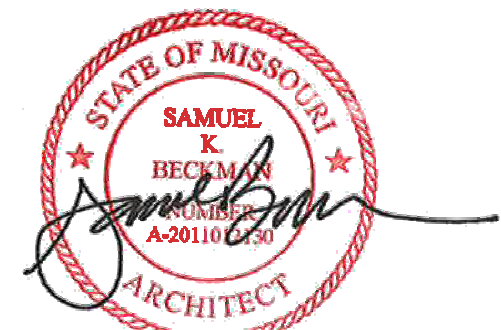
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DEMOLITION PLAN

A3 01 - FIRST FLOOR DEMO PLAN - PHASE 2
1/4" = 1'-0"





KEYNOTES - DEMO RCP	
NUMBER	COMMENTS
1	REMOVE SINK, CABINETS, COUNTERTOP AND ASSOCIATED PLUMBING AND ELECTRICAL ITEMS. RE: MEP DRAWINGS FOR ADDITIONAL INFORMATION.
2	REMOVE EXISTING DOOR AND HARDWARE. SALVAGE TO OWNER.
3	REMOVE EXISTING FIRE EXTINGUISHER CABINET AND SALVAGE FOR REUSE. RE: LIFE SAFETY PLAN FOR RELOCATION.
4	COORDINATE REMOVAL OF EXISTING MODULAR CASEWORK, MODULAR WALLS, AND MODULAR PANELS WITH OWNER & FURNITURE VENDOR. TERMINATE AND CAP ALL ELECTRICAL AS REQUIRED. RE: MEP.
5	COORDINATE REMOVAL & RELOCATION OF EXISTING FURNITURE & EQUIPMENT WITH OWNER & FURNITURE VENDOR.
6	PATCH & REPAIR EXISTING FLOOR AS REQUIRED AFTER THE REMOVAL OF WALLS.
7	REMOVE EXISTING FLOORING & WALL BASE. PREP SUBFLOOR TO RECEIVE NEW FLOORING.
8	PREP WALLS TO RECEIVE NEW WALL BASE AND/OR FINISHES. RE: FINISH PLAN & SCHEDULE.
9	COORDINATE REMOVAL OF EXISTING POWER POLES WITH OWNER & FURNITURE VENDOR. CAP ALL WIRES & CONDUIT AND PATCH FLOORING AS REQUIRED. SALVAGE POLES FOR REUSE. RE: MEP FOR ADDITIONAL INFORMATION.
10	REMOVE EXISTING TV AND ASSOCIATED BRACKET AS REQUIRED TO INSTALL NEW FINISHES. RE: FINISH PLAN & SCHEDULE. CAP ALL WIRES & CONDUIT AS REQUIRED. SALVAGE TV AND BRACKET FOR REINSTALLATION. RE: MEP FOR ADDITIONAL INFORMATION.
11	REMOVE EXISTING COMPUTER, MONITOR, AND ACCESSORIES. SALVAGE TO OWNER FOR RELOCATION.
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13	REMOVE EXISTING LIGHT FIXTURES. SALVAGE FOR RELOCATION. RE: MEP.
14	REMOVE EXISTING SUPPLY DIFFUSERS. SALVAGE FOR RELOCATION. RE: MEP.
15	REMOVE EXHAUST DUCT AND REPLACE CEILING TILES AS REQUIRED TO ACCOMMODATE FUME HOOD RELOCATION. RE: MEP.
16	COORDINATE REMOVAL OF EXISTING POWER POLES WITH OWNER AND FURNITURE VENDOR. CAP ALL WIRES & CONDUIT AS REQUIRED. SALVAGE POLES FOR RELOCATION. RE: DEMO PLAN & MEP. REPLACE INDIVIDUAL CEILING TILES AFTER POWER POLES ARE RE-LOCATED.
17	REMOVE EXISTING CEILING GRID AND TILES.
18	COORDINATE TEMPORARY RELOCATION OF FURNITURE & EQUIPMENT WITH OWNER AND FURNITURE VENDOR AS REQUIRED TO PERFORM NEW WORK.
19	REMOVE EXISTING DOOR, FRAME ETR. SALVAGE HARDWARE FOR RE-INSTALL. PREP FRAME FOR NEW PAINT.
20	COORDINATE REMOVAL OF EXISTING FURNITURE WITH FURNITURE VENDOR AS REQUIRED TO PERFORM NEW WORK. RE: MEP.
21	REMOVE EXISTING VWC & WALL PROTECTION. PREP WALLS TO RECEIVE NEW WALL BASE AND FINISHES. RE: FINISH PLAN & SCHEDULE.
22	REMOVE EXISTING CEILING TILES, GRID ETR.
23	FIELD VERIFY LOCATION OF EXISTING MAIL BOX ON CORRIDOR SIDE. OPEN INTERIOR WALL TO INSTALL FIRE RATED 5-SIDED GYPSUM BOARD BOX AROUND MAIL BOX.
24	FIELD VERIFY LOCATION OF EXISTING ZONE VALVE BOX ON CORRIDOR SIDE. OPEN INTERIOR WALL TO INSTALL FIRE RATED 5-SIDED GYPSUM BOARD BOX AROUND ZVB.



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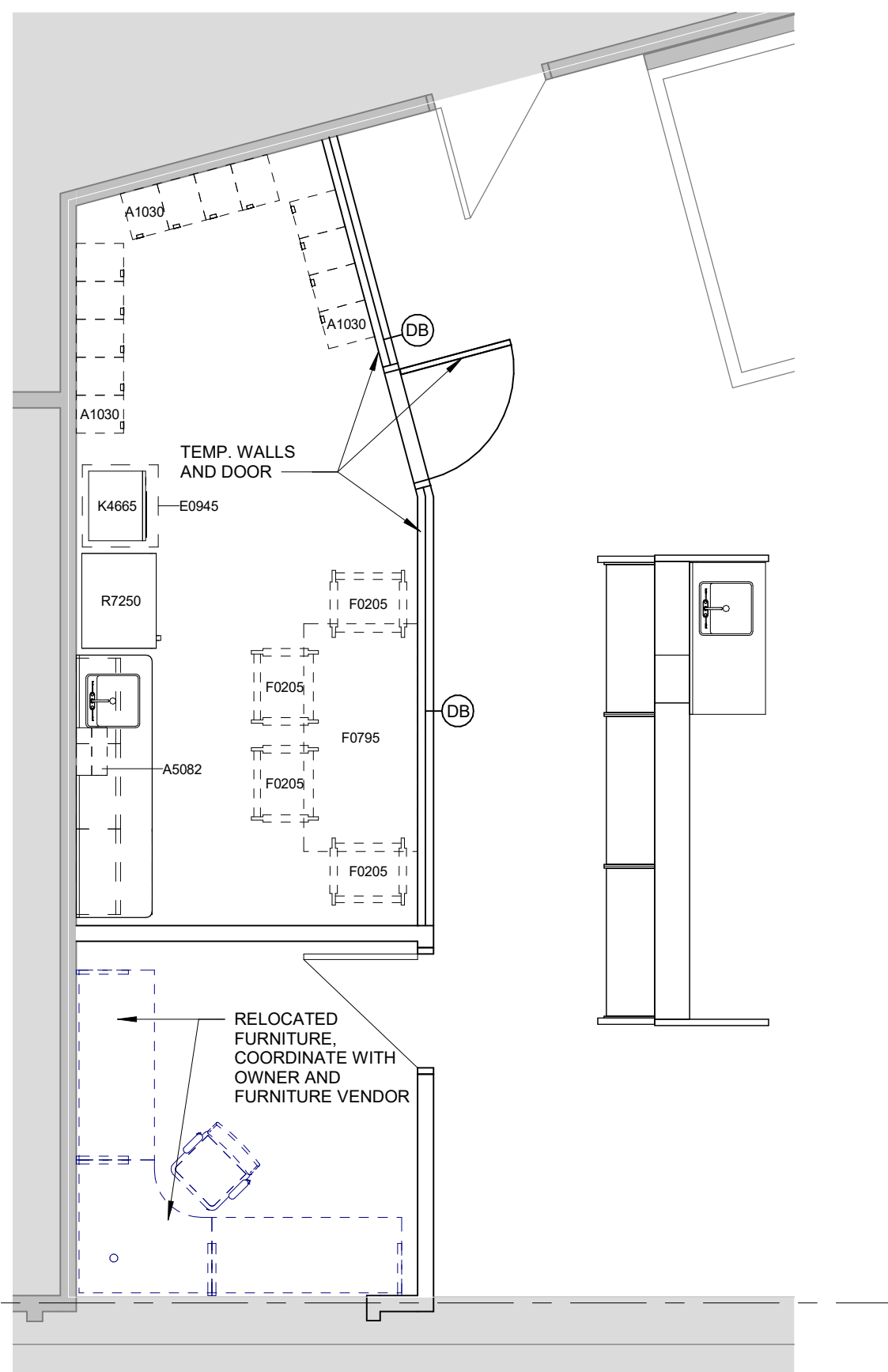
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1 10.12.20 ADD 01

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DEMOLITION REFLECTED CEILING
PLAN

A2 PARTIAL FIRST FLOOR DEMO RCP
1/4" = 1'-0"





D4 TEMPORARY PHASE B PLAN
1/4" = 1'-0"



PHASING NOTES

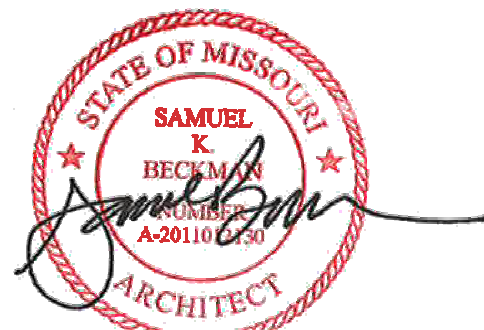
- CONSTRUCTION PHASING SUMMARY**
1. THE LAB IS A 24 HOUR/7 DAY PER WEEK OPERATION.
2. INSTALL TEMPORARY CONSTRUCTION PARTITION DURING EACH PHASE OF THE WORK TO CONTAIN CONSTRUCTION DUST AND DEBRIS WITHIN THE CONSTRUCTION AREA. CONTRACTOR TO INSTALL ADDITIONAL PLASTIC DUST PARTITIONS IN CORRIDOR OR ELSEWHERE AS NEEDED FOR CONSTRUCTION PHASING.
- PHASE A**
1. COORDINATE REMOVAL & RELOCATION OF ALL EXISTING EQUIPMENT AND FURNITURE IN TRANSPORTER'S OFFICE 1A007B.
2. PERFORM NEW WORK, RE: PLAN, FINISH SCHEDULE & MEP.
3. COORDINATE REMOVAL & RELOCATION OF ALL WIRE SHELVING TO NEW LAB STORAGE 1A007B (PREVIOUSLY TRANSPORTER'S OFFICE).
- PHASE B**
1. COORDINATE REMOVAL & RELOCATION OF ALL FURNITURE IN P.O.C. 1A041H & CYST 1A041G.
2. DEMO EXISTING P.O.C. 1A041H.
3. PERFORM NEW WORK, RE: PLAN, FINISH SCHEDULE & MEP.
4. CONSTRUCT TEMPORARY DUST BARRIERS FOR TEMPORARY BREAK ROOM RELOCATION.
5. COORDINATE TEMPORARY RELOCATION OF FURNITURE AND EQUIPMENT FROM EXISTING SUPERVISOR'S OFFICE 1A041E TO CYST 1A041G.
6. COORDINATE TEMPORARY RELOCATION OF EXISTING FURNITURE & EQUIPMENT FROM BREAK ROOM 1A041D TO PHASE B AREA.
- PHASE C**
1. CAREFULLY PROTECT EXISTING METAL CASEWORK IN BREAK ROOM 1A041D.
2. PERFORM NEW WORK IN BREAK ROOM 1A041D, SUPERVISOR'S OFFICE 1A041E, AND SHARED OFFICE 1A041F. RE: FLOOR PLAN, MEP, FINISH PLAN AND FINISH SCHEDULE.
3. COORDINATE FINAL RELOCATION OF FURNITURE AND EQUIPMENT FOR SUPERVISOR'S OFFICE 1A041E.
4. COORDINATE FINAL RELOCATION OF FURNITURE & EQUIPMENT FROM TEMP BREAK ROOM IN PHASE B TO NEW BREAK ROOM 1A041D.
5. COORDINATE RELOCATION OF FURNITURE AND EQUIPMENT FROM SHARED OFFICE IN PHASE D TO NEW SHARED OFFICE 1A041F.
- PHASE D**
1. UPON COMPLETION OF PHASE C AND RELOCATION OF TEMP. SUPERVISOR'S OFFICE AND BREAK ROOM, DEMO EXISTING CYST 1A041G.
2. PATCH AND REPAIR WALLS IN VACATED TEMP PHASE B AREA. CAREFULLY PROTECT NEW CASEWORK IN TEMP PHASE B AREA DURING THE WORK.
3. PERFORM NEW WORK, RE: PLAN, FINISH SCHEDULE, AND MEP.
4. COORDINATE INSTALLATION OF NEW FURNITURE AND EQUIPMENT WITH OWNER AND FURNITURE VENDOR.
- PHASE E**
1. COORDINATE RELOCATION OF EXISTING ANALYZERS WITH OWNER AS REQUIRED FOR INSTALLATION OF NEW ANALYZERS.
2. PERFORM NEW WORK, RE: PLAN, FINISH SCHEDULE & MEP.
3. COORDINATE RELOCATION OF ALL FURNITURE AND EQUIPMENT WITH OWNER AND FURNITURE VENDOR.



A4 FIRST FLOOR PHASING PLAN
1/8" = 1'-0"



A1 FIRST FLOOR PHASING DEMO PLAN
1/8" = 1'-0"



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Checked By AD

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1	10.12.20	ADD 01

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ARCHITECTURAL PHASING PLAN

FFE SCHEDULE

TYPE MARK	DESCRIPTION	RESPONSIBILITY	COMMENTS
A1030	LOCKER, 2 TIER	VFVI	RELOCATED BY JOHN A. MARSHALL
A5075	SOAP DISPENSER	OFCI	NEW
A5082	PAPER TOWEL DISPENSER	OFCI	NEW
A5145	COAT RACK	VFVI	NEW BY JOHN A. MARSHALL. PROVIDE IN WALL BLOCKING
A5210	BRACKET, TELEVISION SWIVEL	OFCI	EXISTING
E0116	WORKSTATION, MOBILE, CUSTOM, 33.5"W, 24"D	VFVI	RELOCATED BY JOHN A. MARSHALL
E0117a	WORKSTATION, MOBILE, 48"W, 24"D	VFVI	RELOCATED BY JOHN A. MARSHALL
E0117b	WORKSTATION, MOBILE, 48"W, 30"D	VFVI	RELOCATED BY JOHN A. MARSHALL
E0120a	WORKSTATION, MOBILE, 60"W, 24"D	VFVI	RELOCATED BY JOHN A. MARSHALL
E0120b	WORKSTATION, MOBILE, 60"W, 30"D	VFVI	RELOCATED BY JOHN A. MARSHALL
E0123a	WORKSTATION, MOBILE, 72"W, 24"D	VFVI	RELOCATED BY JOHN A. MARSHALL
E0123b	WORKSTATION, MOBILE, 72"W, 30"D	VFVI	RELOCATED BY JOHN A. MARSHALL
E0123c	WORKSTATION, MOBILE, 72"W, 24"D	VFVI	NEW BY JOHN A. MARSHALL
E045	CART, MOBILE	VFVI	RELOCATED
F0205	SIDE CHAIR, W/ ARMS	VFVI	RELOCATED BY JOHN A. MARSHALL
F0300	CHAIR, TASK, SWIVEL, W/ ARMS	VFVI	RELOCATED BY JOHN A. MARSHALL
F0410a	FILE, LATERAL, HALF HEIGHT	VFVI	RELOCATED BY JOHN A. MARSHALL
F0410b	FILE, LATERAL, HALF HEIGHT	VFVI	RELOCATED BY JOHN A. MARSHALL
F0415	FILE, LATERAL, FULL HEIGHT	VFVI	RELOCATED BY JOHN A. MARSHALL
F0430	CABINET, BIF. MOBILE PEDESTAL	VFVI	RELOCATED BY JOHN A. MARSHALL
F0795	DINING TABLE	VFVI	RELOCATED BY JOHN A. MARSHALL
F2540	SHRED-DT	OFCI	EXISTING
K4665	MICROWAVE	OFCI	RELOCATED. POWER AS REQUIRED. RE: MEP
L0100	MICROSCOPE	OFCI	RELOCATED. POWER AS REQUIRED. RE: MEP

FFE SCHEDULE GENERAL NOTES

- ALL ITEMS IN THE FFE SCHEDULE ARE EXISTING AND TO BE RELOCATED, UNLESS OTHERWISE NOTED.

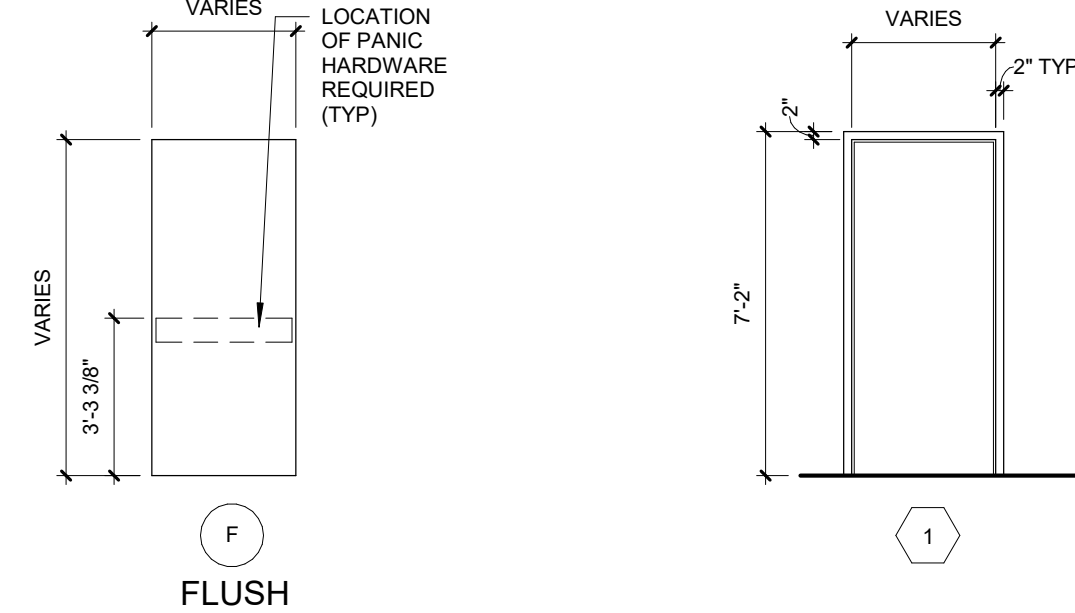
FFE SCHEDULE

TYPE MARK	DESCRIPTION	RESPONSIBILITY	COMMENTS
L0145	MICROSCOPE, DUAL HEAD	OFCI	RELOCATED. POWER AS REQUIRED. RE: MEP
L0950	ANALYZER, URINE	OFCI	RELOCATED. POWER & DATA AS REQUIRED. RE: MEP
L0955a	ANALYZER, URINE (SYSMEX UF-1000)	OFCI	RELOCATED. POWER & DATA AS REQUIRED. RE: MEP
L0955b	ANALYZER, URINE (SIEMENS CLINTEK NOVUS)	OFCI	RELOCATED. POWER & DATA AS REQUIRED. RE: MEP
L1030	ANALYZER, CHEMISTRY, STAT (SEM PREMIERES 4000)	OFCI	RELOCATED. POWER & DATA AS REQUIRED. RE: MEP
L1075	BATH, WATER, PLASMA TAWING (HELMER)	OFCI	RELOCATED. POWER AS REQUIRED. RE: MEP
L1085	ANALYZER, COAGULATION (STA20)	OFCI	RELOCATED. POWER & DATA AS REQUIRED. RE: MEP
L1115a	ANALYZER, HEMATOLOGY (SYSMEX XN-1000)	OFCI	RELOCATED. POWER AS REQUIRED. RE: MEP
L1115b	ANALYZER, HEMATOLOGY (EXCITE)	OFCI	RELOCATED. POWER AS REQUIRED. RE: MEP
L1150	OSMOMETER	OFCI	RELOCATED. POWER AS REQUIRED. RE: MEP
L1350	CENTRIFUGE	OFCI	RELOCATED. POWER AS REQUIRED. RE: MEP
L2310	CABINET, BIOSAFETY, F.S. 48"W	OFCI	RELOCATED. POWER AS REQUIRED. RE: MEP
L2375	INCUBATOR, PLATELET STORAGE SYSTEM (HELMER)	OFCI	EXISTING. RELOCATED.
M0500	MONITOR	OFCI	EXISTING. RELOCATED.
M1801	COMPUTER	OFCI	RELOCATED. POWER & DATA AS REQUIRED. RE: MEP
M1825	PRINTER	OFCI	RELOCATED. POWER & DATA AS REQUIRED. RE: MEP
M2055a	WIRE SHELVING, 48"Wx18"Dx74"H	VFVI	RELOCATED BY METRO SHELVING
M2055b	WIRE SHELVING, 48"Wx18"Dx74"H	VFVI	RELOCATED BY METRO SHELVING
M3075	BASKET, INFECTIOUS WASTE, STEP-ON	OFCI	RELOCATED
R5100	FREEZER	OFCI	RELOCATED. POWER AS REQUIRED. RE: MEP
R5110	FREEZER, PLASMA, IUC	OFCI	RELOCATED. POWER AS REQUIRED. RE: MEP
R5130	FREEZER, PLASMA	OFCI	RELOCATED. POWER AS REQUIRED. RE: MEP
R6400	REFRIGERATOR, COUNTERTOP	OFCI	RELOCATED. POWER AS REQUIRED. RE: MEP
R7250	REFRIGERATOR	OFCI	RELOCATED. POWER AS REQUIRED. RE: MEP
U1000	VOALTE CABINET	OFCI	RELOCATED. POWER AS REQUIRED. RE: MEP
U1001	ANALYZER, (GENEXPERT)	OFCI	RELOCATED. POWER & DATA AS REQUIRED. RE: MEP
U1002	MILLIPORE CLX UNIT	VFVI	NEW. RE: VENDOR DRAWINGS
U1003	MILLIPORE WATER SOFTENER	VFVI	NEW. RE: VENDOR DRAWINGS
U1004	MILLIPORE CARBON FILTER	VFVI	NEW. RE: VENDOR DRAWINGS
U1005	WIRE CART	VFVI	NEW BY JOHN A. MARSHALL
U1006	UPS RACK	VFVI	NEW BY JOHN A. MARSHALL. RE: SIEMENS DRAWINGS FOR SIZE REFERENCE

DOOR SCHEDULE

DOOR #	ROOM NAME	DOOR INFORMATION				FRAME INFORMATION		GLAZING	LABEL MIN	HARDWARE SET	OPENING DETAIL		REMARKS	REV	
		WIDTH	HEIGHT	NO. OF LEAVES	UNEQUAL LEAF WIDTH	ELEV.	MAT'L				ELEV.	MAT'L			HEAD
1A007B	LAB STORAGE	3'-0"	7'-0"	1		F	WD	1	HM	--	45 min	01	B1/A2.1	A1/A2.1	CARD READER
1A041D	BREAK ROOM	3'-0"	7'-0"	1		F	WD	1	HM	--	--	--	B1/A2.1	A1/A2.1	RE-INSTALL EXISTING HARDWARE, CLOSER, PROVIDE WALL STOP
1A041F	SHARED OFFICE	3'-0"	7'-0"	1		F	WD	1	HM	--	--	02	B1/A2.1	A1/A2.1	

DOOR ELEVATIONS: FRAME ELEVATIONS:



DOOR HARDWARE

DOOR HARDWARE	
HARDWARE SET: 01 DOOR NUMBER: 1A007B	
EACH TO HAVE:	
QTY DESCRIPTION	CATALOG NUMBER FINISH MFR
3 EA HINGE	58B1HWSC 626 IVE
1 EA STOREROOM LOCK	NDRDLD RHO 626 SCH
1 EA CYLINDER	BY OWNER 626 SCH
1 EA ELECTRIC STRIKE	4040 XP 689 VON
1 EA SURFACE CLOSER	4040 XP 689 VON
1 EA KICK PLATE	8400 10" X 2" LDW WS406/407CCV 630 IVE
1 EA WALL STOP	875-05 BY SECURITY 630 IVE
1 EA DOOR CONTACT	875-05 BY SECURITY 630 IVE
1 EA CARD ACCESS	BY SECURITY 630 IVE
1 EA LOW VOLTAGE POWER	BY SECURITY 630 IVE
1 EA WIRING DIAGRAM	BY SECURITY 630 IVE
OPERATION: DOOR NORMALLY CLOSED AND LOCKED. ENTRY VIA VALID CARD READ. ALWAYS FREE FOR EGRESS.	
HARDWARE SET: 02 DOOR NUMBER: 1A041F	
EACH TO HAVE:	
QTY DESCRIPTION	CATALOG NUMBER FINISH MFR
3 EA HINGE	58B1HW 626 IVE
1 EA ENTRANCE LOCK	NDRDLD RHO 626 SCH
1 EA CYLINDER	BY OWNER 626 SCH
1 EA WALL STOP	WS406/407CCV 630 IVE

DOOR & FRAME MAT'L LEGEND

HM	HOLLOW METAL
WD	SOLID CORE WOOD

GENERAL PLAN NOTES

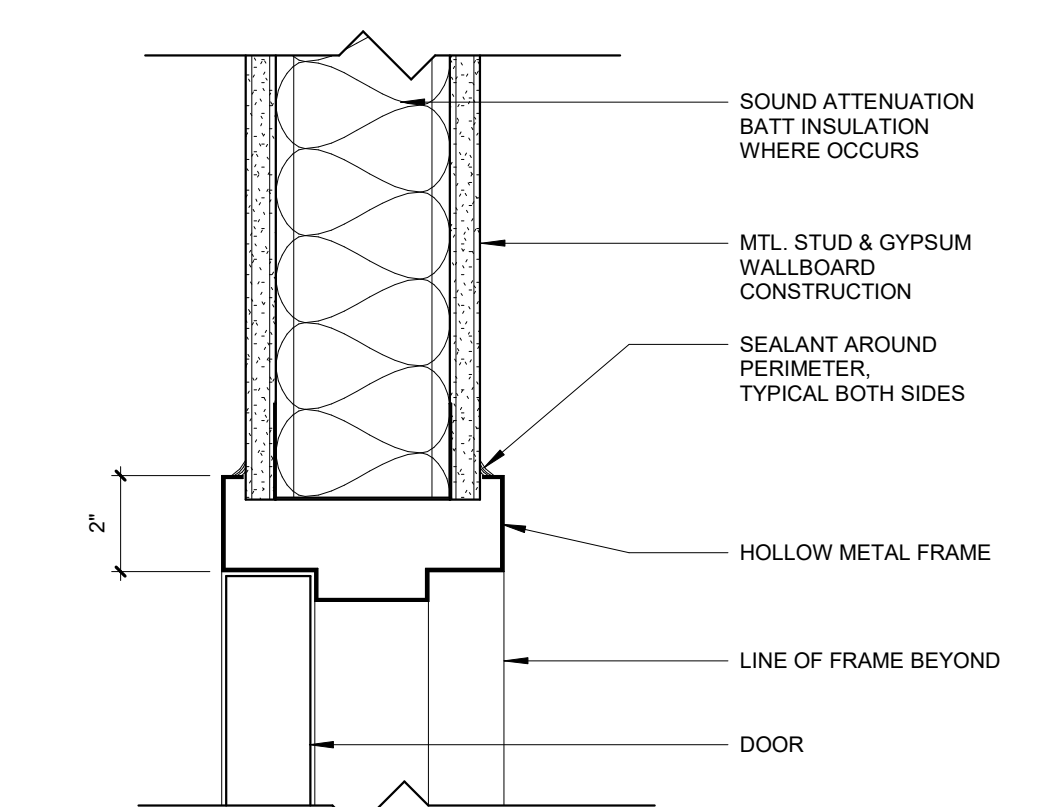
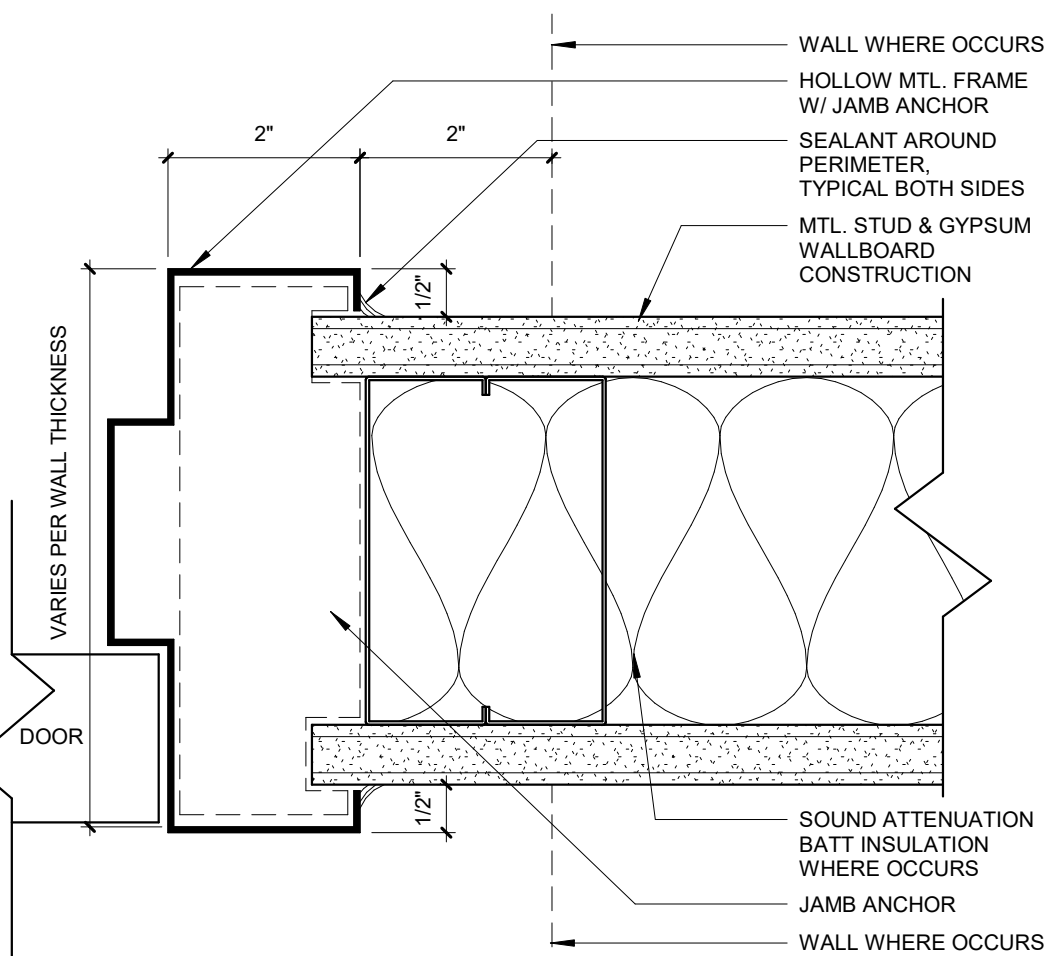
- REFER TO GENERAL NOTES, LEGENDS & SYMBOLS SHEET FOR ADDITIONAL GENERAL NOTES AS APPLICABLE
- TYPICAL DIMENSIONS ARE TO FACE OF CONCRETE, DRYWALL, CURTAIN WALL, ETC., OR TO COLUMN CENTERLINE. DIMENSIONS AT WINDOWS ARE TYPICALLY TO FACE OF FRAME. REFER TO PLAN DETAILS FOR ADDITIONAL INFORMATION.
- ALL EXISTING CONSTRUCTION TO REMAIN SHALL BE PATCHED, REPAIRED, AND PREPARED AS REQUIRED FOR NEW FINISH APPLICATION

KEYNOTES - FLOOR PLAN

NUMBER	COMMENTS
1	NEW FLOOR DRAIN, RE: MEP. PATCH AND REPAIR FLOORING AS REQUIRED.
2	RELOCATED POWER POLES. FINAL COUNTS AND LOCATIONS TO BE COORDINATED W/ OWNER. RE: MEP & SIEMENS DRAWINGS FOR UTILITY REQUIREMENTS. PATCH AND REPAIR FLOOR AND REPAIR CEILING TILES AS REQUIRED.
3	NEW EQUIPMENT AND AUTOMATION LINE TO BE INSTALLED. RE: VENDOR DRAWINGS
4	RELOCATED FURNITURE & EQUIPMENT. COORDINATE RELOCATION WITH OWNER & FURNITURE VENDOR.
5	EXISTING CASEWORK, PLUMBING, & EQUIPMENT TO REMAIN.
6	NEW LOCKERS BY JOHN A. MARSHALL
7	NEW WATER SYSTEM AND EQUIPMENT TO BE INSTALLED. RE: MEP & VENDOR DRAWINGS.
8	NEW WORK TABLES AND HALF HEIGHT FURNITURE PANEL. VFVI BY JOHN A. MARSHALL. FIELD VERIFY AND COORDINATE FINAL SIZES W/ OWNER.
9	NOT USED.
10	NEW COAT HOOKS BY JOHN A. MARSHALL FOR RELOCATED LAB COATS. BLOCKING AS REQUIRED.
11	NOT USED.
12	NEW WORKSURFACE & WALL MOUNTED FLUPPER BINS. VFVI BY JOHN A. MARSHALL. FIELD VERIFY & COORDINATE FINAL LAYOUT WITH OWNER.
13	NEW POWER POLE DOWN TO HALF HEIGHT FURNITURE PANEL. COORDINATE LOCATION W/ OWNER & FURNITURE VENDOR. RE: MEP
14	RELOCATED TV AND BRACKET. CONTRACTOR TO PROVIDE IN WALL BLOCKING. POWER & DATA AS REQUIRED. RE: MEP
15	RELOCATED COMPUTER, MONITOR, AND ASSOCIATED ACCESSORIES. POWER & DATA AS REQUIRED. RE: MEP
16	RELOCATED FIRE EXTINGUISHER CABINET.
17	NEW CORNER GUARD. RE: FINISH LEGEND
18	NEW ELECTRICAL PANEL. RE: MEP
19	RELOCATED CPU HOLDER AND UTILITIES. RE: MEP
20	NEW GYP FURRING FOR MEP UTILITIES. RE: MEP
21	EXISTING MONITOR. DE-INSTALL AND COORDINATE RELOCATION W/ OWNER. RE-INSTALL AFTER CONSTRUCTION IS COMPLETE. RE: MEP
22	ATELLICA UPS. RE: MEP & VENDOR INFORMATION
23	ATELLICA TRANSFORMER. RE: MEP & VENDOR INFORMATION
24	ATELLICA DISCONNECT SWITCH. RE: MEP & VENDOR INFORMATION
25	NEW DOOR. MATCH EXISTING RATINGS AS REQUIRED. RE-INSTALL EXISTING HARDWARE. PAINT FRAME. RE: FINISH SCHEDULE

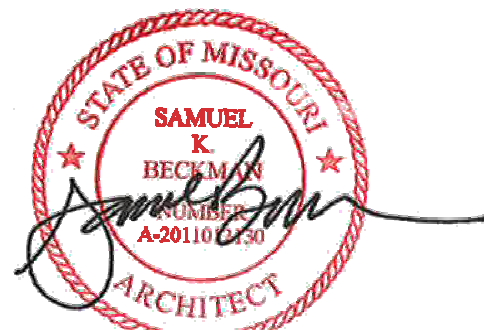
FLOOR PLAN LEGEND

NOT IN SCOPE	NOT IN ARCHITECTURAL SCOPE
CONCRETE SLAB INFILL	EXISTING WALL
NEW WALL	EXISTING EXPANSION JOINT
EXPANSION JOINT	EXISTING DOOR
DOOR No.	
NEW DOOR	

B1 TYPICAL HEAD - HOLLOW METAL DOOR FRAME
3" = 1'-0"A1 TYPICAL JAMB - HOLLOW METAL DOOR FRAME
6" = 1'-0"A2 FIRST FLOOR PLAN
1/4" = 1'-0"A2.1
6" = 1'-0"Samuel K. Beckman - Architect
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Licensee's Certificate of Authority Number:
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Missouri: #00127265Saint Luke's
EAST HOSPITAL
LAB REMODEL
100 NE ST LUKES BLVD,
LEE'S SUMMIT, MO 64086Date 09.18.2020
Job Number 3-20030
Drawn By BR
Checked By ADRevision
Number Date Description
1 10.12.20 ADD 01A2.1
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FIRST FLOOR PLAN



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FIRST FLOOR REFLECTED CEILING
PLAN

REFLECTED CEILING NOTES

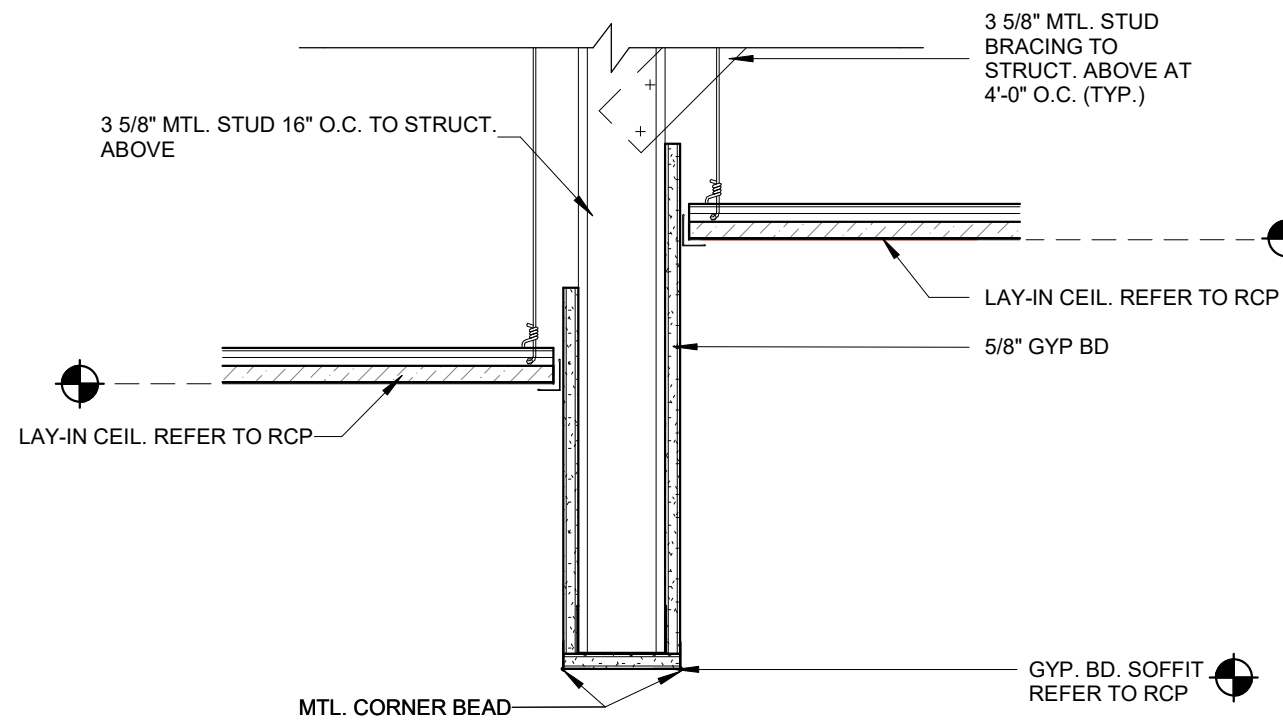
- THIS PLAN SHALL BE USED TO COORDINATE THE CEILING LAYOUT WITH MECHANICAL AND ELECTRICAL WORK. VERIFY THE EXACT QUANTITY REQUIRED.
- CONTRACTOR TO REFER TO THE ELECTRICAL PLANS FOR ACTUAL LIGHTING SIZES AND FIXTURE TYPES.
- REFER TO ARCHITECTURAL FLOOR PLANS FOR MATERIAL LEGEND OF ALL TYPES.
- ALL CEILINGS ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
- EXISTING MEPPF DEVICES SHOWN ARE BASED ON EXISTING DRAWINGS AND/OR FIELD OBSERVATIONS. THE OWNER/ARCHITECT DOES NOT GUARANTEE THE ACCURACY/LOCATION OR QUANTITY OF EXISTING DEVICES. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR CONFLICTS BETWEEN ARCHITECTURAL & MEP ITEMS PRIOR TO INSTALLATION.
- CONTRACTOR TO PROVIDE ALL REQUIRED LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO MEET AND COMPLETE THE REQUIREMENTS OF THE NEW CONSTRUCTION.
- SEE FINISH SCHEDULE FOR FINISH LOCATION AND SPECIFICATIONS.
- PAINT THE UNDERSIDE OF ALL GYPSUM BOARD CEILINGS, BULKHEADS AND SOFFITS P-S, UNLESS NOTED OTHERWISE.

CEILING LEGEND

- RECESSED CAN LIGHT FIXTURE RE: ELECT
- ◻ 2X4 RECESSED/SURFACE FLUORESCENT LIGHT FIXTURE RE: ELECT
- ◻ 2X2 RECESSED/SURFACE FLUORESCENT LIGHT FIXTURE RE: ELECT
- CL GYP BOARD CEILING - PAINTED W/ CONTROL JOINTS PER SPECS
- 2X2/24 LAY-IN ACOUSTICAL CEILING
- ⊗ EXIT LIGHT WITH FIXTURE MARK CEILING MOUNTED RE: ELECT
- ⊗ EXIT LIGHT WITH FIXTURE MARK WALL BRACKET RE: ELECT
- ⊗ SUPPLY AIR GRILLE RE: MECH
- ⊗ RETURN AIR OR EXHAUST GRILLE RE: MECH
- 9'-0" SOFFIT HEIGHT
- 9'-0" CEILING HEIGHT

KEYNOTES - RCP

NUMBER	COMMENTS
1	EXTEND NEW CEILING GRID TO ALIGN WITH EXISTING. PROVIDE NEW CEILING TILES TO MATCH EXISTING.
2	EXISTING CEILING, LIGHTS, DIFFUSERS, ETC. TO REMAIN. RE: MEP.
3	EXISTING LIGHT TO BE RELOCATED IN NEW EXTENDED CEILING GRID. RE: MEP.
4	RELOCATED DIFFUSER IN EXTENDED CEILING GRID. RE: MEP.
5	NEW POWER POLE LOCATIONS. COORDINATE FINAL LOCATION WITH EQUIPMENT VENDOR DRAWINGS AND MEP. RE: VENDOR DRAWINGS FOR UTILITY REQUIREMENTS AT EACH POWER POLE LOCATION. CUT & REPLACE CEILING TILES AS REQUIRED.
6	EXISTING TUBE LINE (ABOVE CEILING) AND TRANSFER STATION (ABOVE CEILING) TO REMAIN.
7	NEW 2X2 CEILING GRID & TILES. RE: MEP & FINISH SCHEDULE FOR ADDITIONAL INFORMATION.
8	EXISTING CEILING GRID TO REMAIN. ADD CROSS TEES TO CREATE 2X2 GRID. REPLACE EXISTING CEILING TILES. RE: MEP & FINISH SCHEDULE FOR ADDITIONAL INFORMATION.

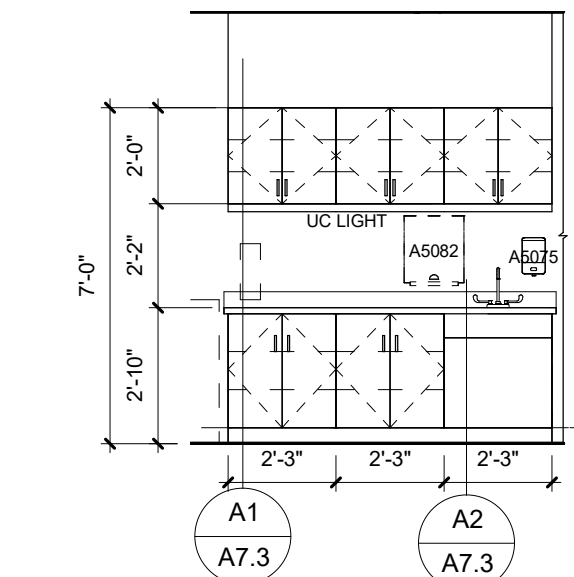


E2 BULKHEAD DETAIL
1 1/2" = 1'-0"

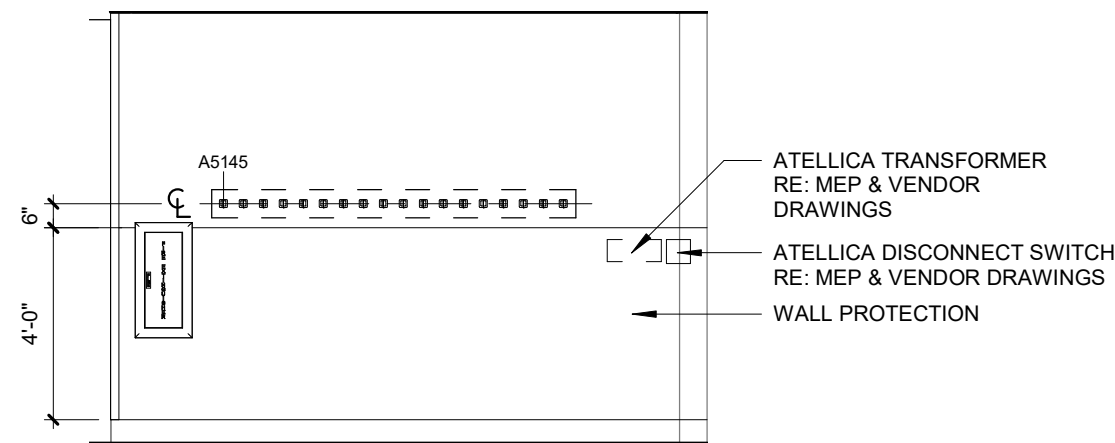


A2 FIRST FLOOR RCP
1/4" = 1'-0"





E6 LAB - WEST
1/4" = 1'-0"



E5 LAB - EAST
1/4" = 1'-0"

INTERIOR FINISH LEGEND							
MARK	ITEM	MANUFACTURER	MODEL / PATTERN	COLOR	SIZE	REMARKS	
FLOOR							
CPT-2	CARPET	MANNINGTON	M050	SOREL 143333	24"x24"	INSTALLATION: MONOLITHIC	
LVT-1	LUXURY VINYL TILE	MANNINGTON	AMTICO WOOD	REGENCY WALNUT AROW8200	4'-12"x36"	STRAIGHT EDGE ONLY; INSTALLATION: RANDOM	
LVT-2	LUXURY VINYL TILE	MANNINGTON	AMTICO STONE	CORINTHIAN MARBLE AROSTV13	18"x18"	STRAIGHT EDGE ONLY; INSTALLATION: ASHLAR	
BASE							
RWB-2	RESILIENT BASE	ROPPE	PINNACLE	#110 BROWN	4" COOVE		
WALL							
P-1	PAINT - EGGSHELL FINISH	SHERWIN WILLIAMS	-	SW7036 ACCESSIBLE BEIGE	-	FIELD PAINT	
P-3	PAINT - EGGSHELL FINISH	SHERWIN WILLIAMS	-	SW7660 EARL GRAY	-	ACCENT PAINT	
P-4	PAINT - SEMI-GLOSS FINISH	SHERWIN WILLIAMS	-	SW7509 TRO HUT	-	HOLLOW METAL DOOR FRAME PAINT	
P-5	PAINT - EGGSHELL FINISH	SHERWIN WILLIAMS	-	SW7007 CEILING BRIGHT WHITE	-	CEILING PAINT	
P-8	PAINT - EGGSHELL FINISH	SHERWIN WILLIAMS	-	SW7621 SILVERMIST	-	ACCENT PAINT	
CASEWORK							
CRW-1	CHEMICAL RESISTANT WORKSURFACE	DURCON INC.	SOLICORE	DURCON GRAY	1" THICK		
MT-1	METAL CABINETS	MOTT MANUFACTURER	#601006	WARM GRAY	-	COLOR SHALL MATCH IF USING OTHER MANUFACTURER	
MISC							
CG-1	CORNER GUARD	CIS ACRYLYN	SM-300ACRYLYN-4000	#858 PUMICE	3" WING	ABOVE BASE TO CEILING. INCLUDE ALL TRIM AND ACCESSORIES.	
INT	INTERIOR DOOR	V.T. INDUSTRIES	HIGH PRESSURE DECORATIVE LAMINATE	WILSONART WALNUT HEIGHTS #7969K-12	-	3MM PVC EDGES, LAMINATED TOP AND BOTTOM. REFER TO DOOR SCHEDULE FOR ADDITIONAL INFORMATION	
WP-2	WALL PROTECTION	CIS ACRYLYN	ACRYLYN 4000	#858 PUMICE	48" THICK 4X10 SHEETS	48" ABOVE BASE. INCLUDE ALL TRIM AND ACCESSORIES.	
CEILING							
CGT-1	ACOUSTIC CEILING TILE	USG	RADAR CLIMAPLUS #2210	WHITE	24"x24"	ISO EDGE, DOWN DX TEE 15/16" GRID SYSTEM	

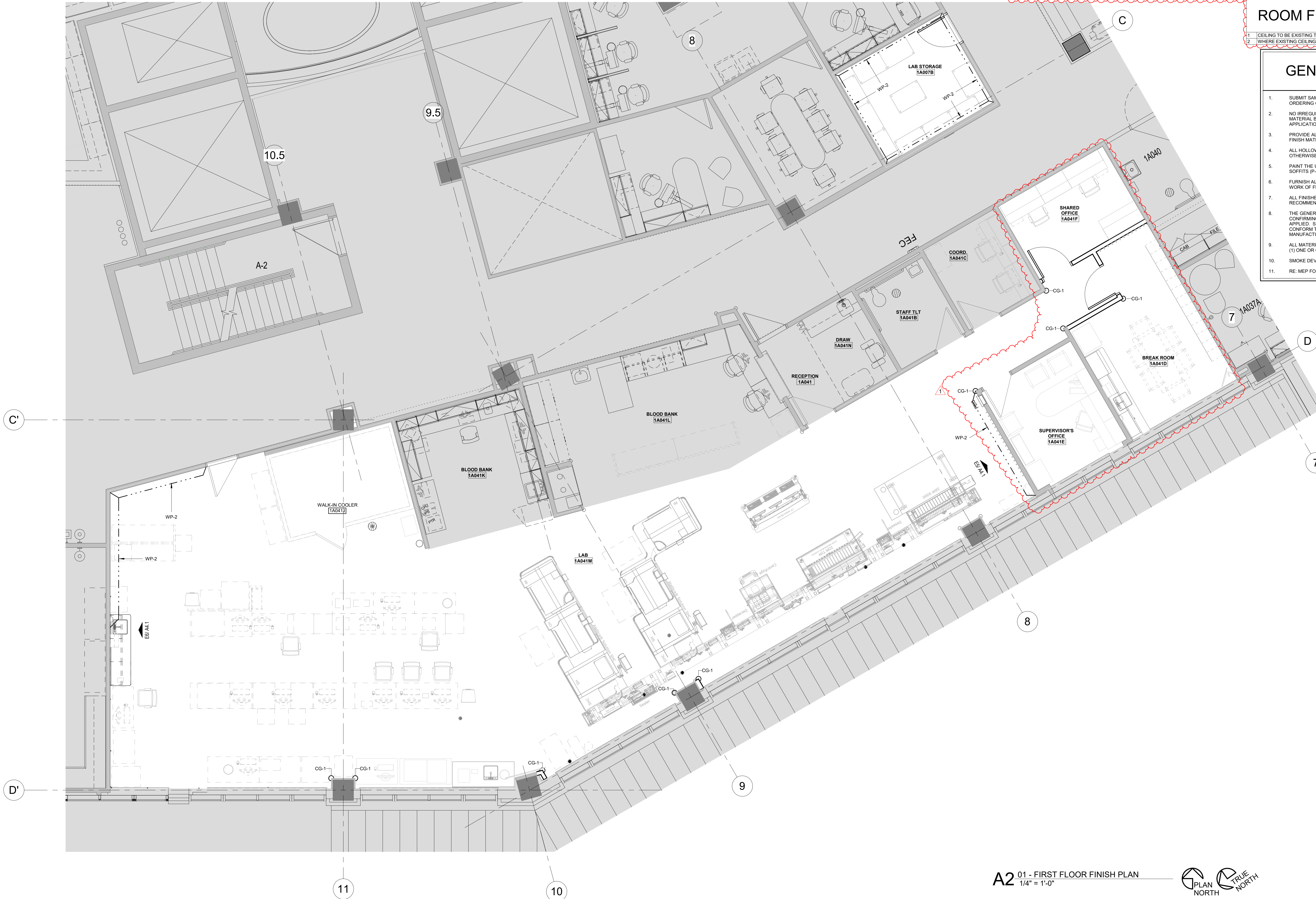
ROOM FINISH SCHEDULE												
ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE FINISH	WALLS				BASE CABINET	CASEWORK			NOTES
				NORTH	EAST	SOUTH	WEST		COUNTERTOPS	SINK	UPPER CABINETS	
1A041B	LAB STORAGE	LVT-2	RWB-2	P-1WP-2	P-1WP-2	P-1WP-2	P-1WP-2	-	-	-	-	ACT-1
1A041D	BREAK ROOM	LVT-1	RWB-2	P-1	P-3 ACCENT	P-1	P-1	ETR	ETR	ETR	ETR	ACT-1
1A041E	SUPERVISOR'S OFFICE	CPT-2	RWB-2	P-1	P-8 ACCENT	P-1	P-1	-	-	-	-	ACT-1
1A041F	SHARED OFFICE	CPT-2	RWB-2	P-8 ACCENT	P-1	P-1	P-1	-	-	-	-	ACT-1
1A041M	LAB	ETR	ETR	ETRWP-2	ETRWP-2	ETR	ETRWP-2	MT-1	CRW-1	SST	MT-1	ETR 1, 2

ROOM FINISH SCHEDULE NOTES

- CEILING TO BE EXISTING TO REMAIN. REPLACE DAMAGED CEILING TILES AS REQUIRED.
- WHERE EXISTING CEILING GRID IS EXTENDED, NEW CEILING TILES TO MATCH EXISTING 2X4 TILES.

GENERAL FINISH NOTES

- SUBMIT SAMPLES OF ALL FINISHES TO ARCHITECT FOR REVIEW PRIOR TO THE ORDERING OF MATERIAL.
- NO IRREGULARITIES OR IMPERFECTIONS SHALL BE PRESENT IN ANY OF THE MATERIAL BEING INSTALLED. IF SUCH ITEMS ARE IDENTIFIED DURING APPLICATION, WORK SHALL BE STOPPED AND THE ARCHITECT NOTIFIED.
- PROVIDE ALL MAINTENANCE MANUALS AND WARRANTY INFORMATION FOR EACH FINISH MATERIAL TO OWNER AT COMPLETION OF THE PROJECT.
- ALL HOLLOW METAL DOOR FRAMES TO BE PAINTED (P-4) UNLESS NOTED OTHERWISE.
- PAINT THE UNDERSIDE OF ALL GYPSUM BOARD CEILINGS, BULKHEADS AND SOFFITS (P-5) UNLESS NOTED OTHERWISE.
- FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO COMPLETE WORK OF FINISH APPLICATIONS.
- ALL FINISHES SHALL BE INSTALLED AND MAINTAINED PER MANUFACTURER'S RECOMMENDATION AND INDUSTRY STANDARDS.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR EXAMINING AND CONFIRMING ALL SUBSTRATE CONDITIONS WHERE NEW MATERIALS ARE APPLIED. SUBSTRATE SHALL BE SMOOTH, FREE OF DEFECTS AND SHALL CONFORM TO THE REQUIREMENTS OF THE FINISHED MATERIAL MANUFACTURER'S RECOMMENDATIONS.
- ALL MATERIAL TO COMPLY WITH FLAME SPREAD CLASSIFICATION EITHER CLASS (1) ONE OR CLASS A DEPENDING ON GOVERNING CODE IN EFFECT.
- SMOKE DEVELOPMENT RATING < 450 FOR ALL FINISHES.
- RE: MEP FOR ALL SST SINKS.



A2 01 - FIRST FLOOR FINISH PLAN
1/4" = 1'-0"



FINISH FLOOR PLAN LEGEND			
N	E	ROOM FINISH SCHEDULE DIRECTION	
W	S	FLOOR FINISH DIRECTION	



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Saint Luke's
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LAB REMODEL
100 NE ST LUKES BLVD,
LEE'S SUMMIT, MO 64086

Date 09.18.2020
Job Number 3-20030
Drawn By BR
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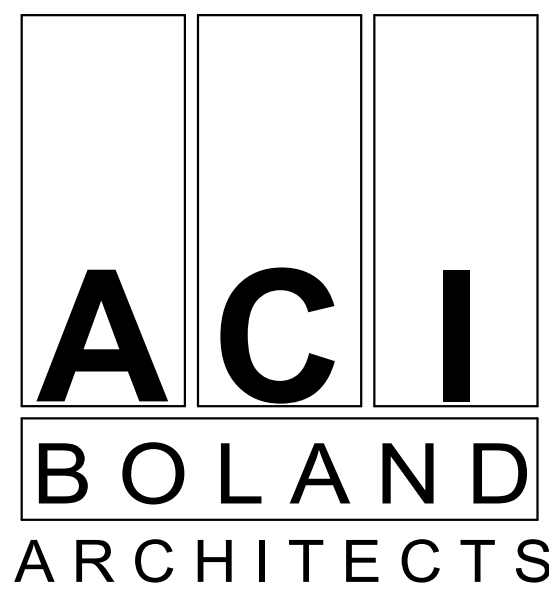
Revision
Number Date Description
1 10.12.20 ADD 01

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FIRST FLOOR FINISH PLAN, FINISH SCHEDULE & LEGEND



10/09/13
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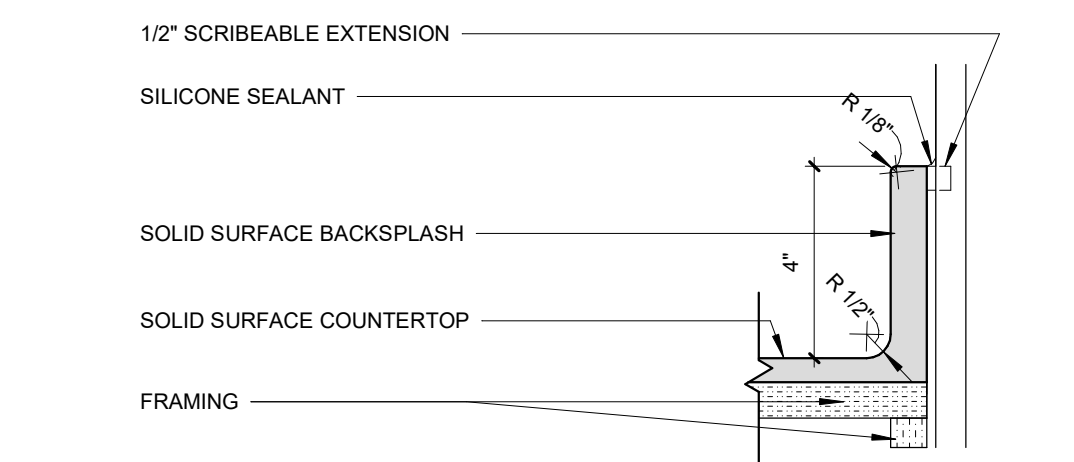
LAB REMODEL
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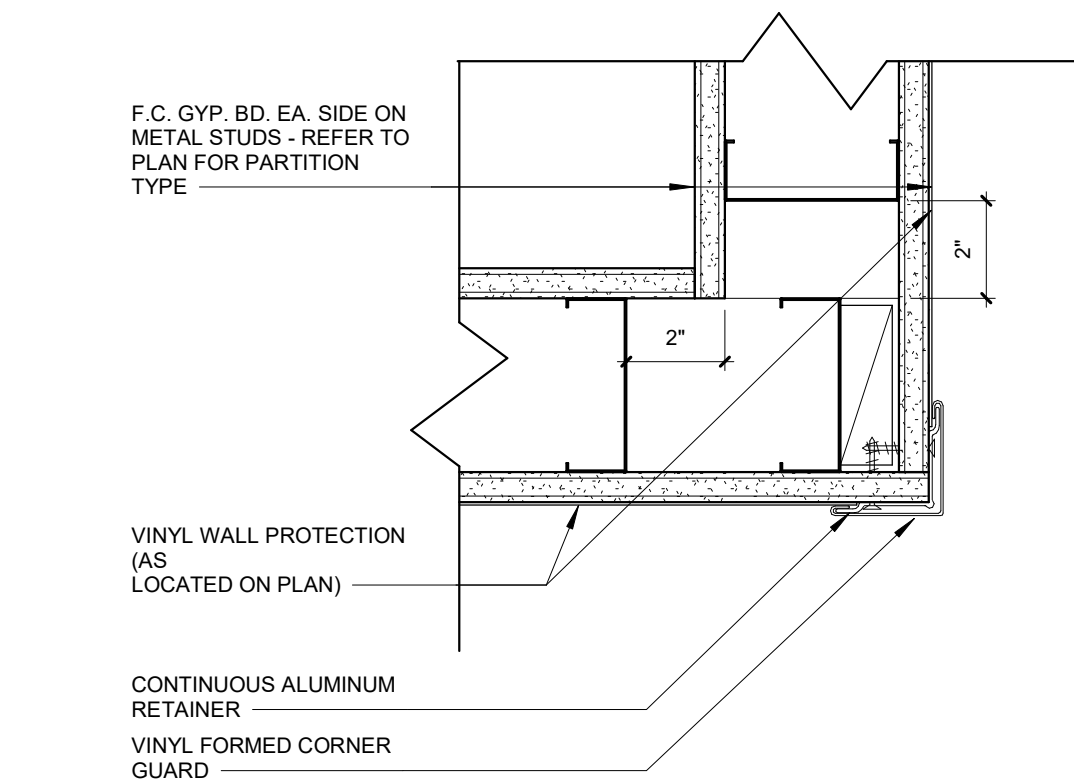
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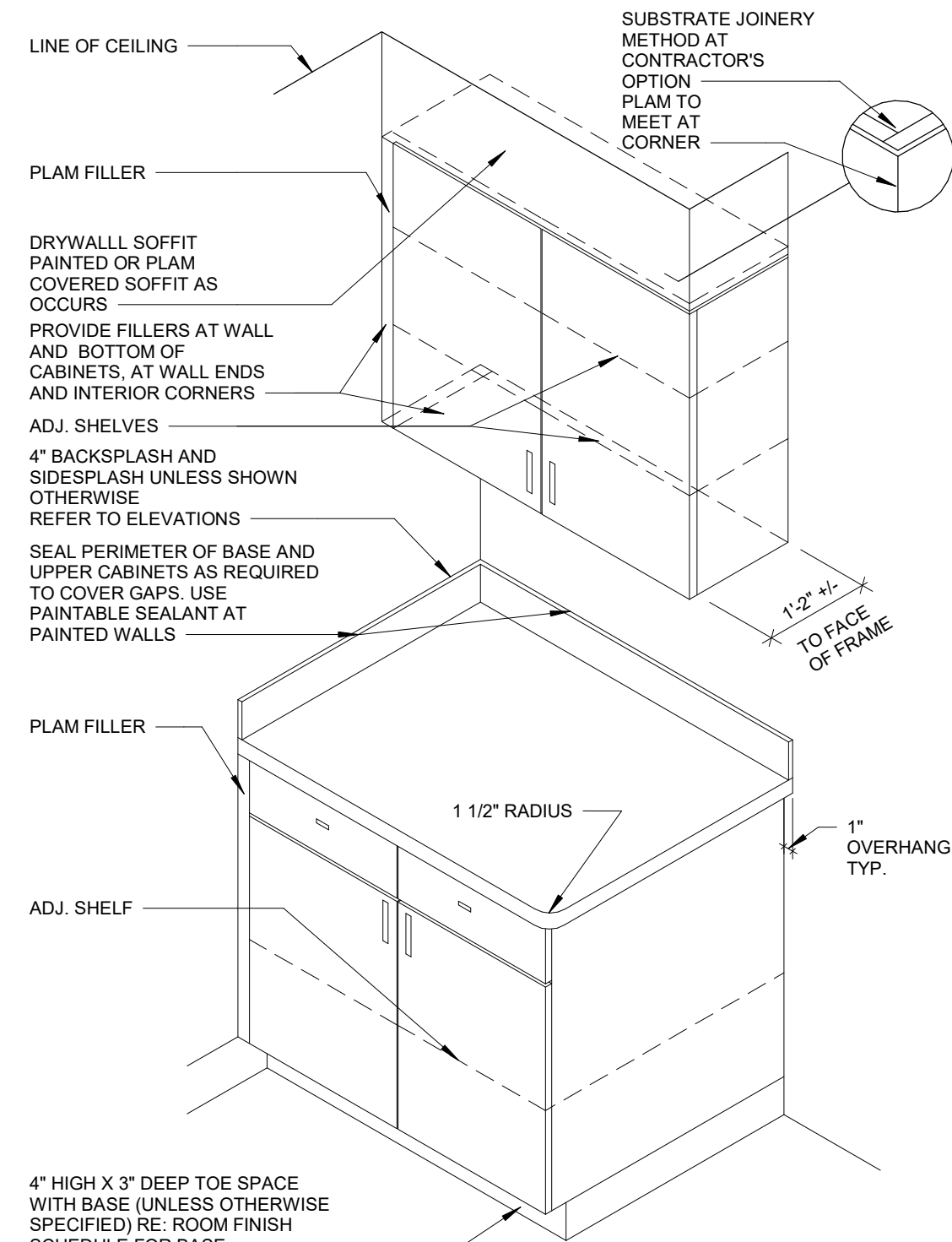
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INTERIOR DETAILS



E2 SECTION DETAIL AT SOLID SURFACE BACKSPLASH
3" = 1'-0"

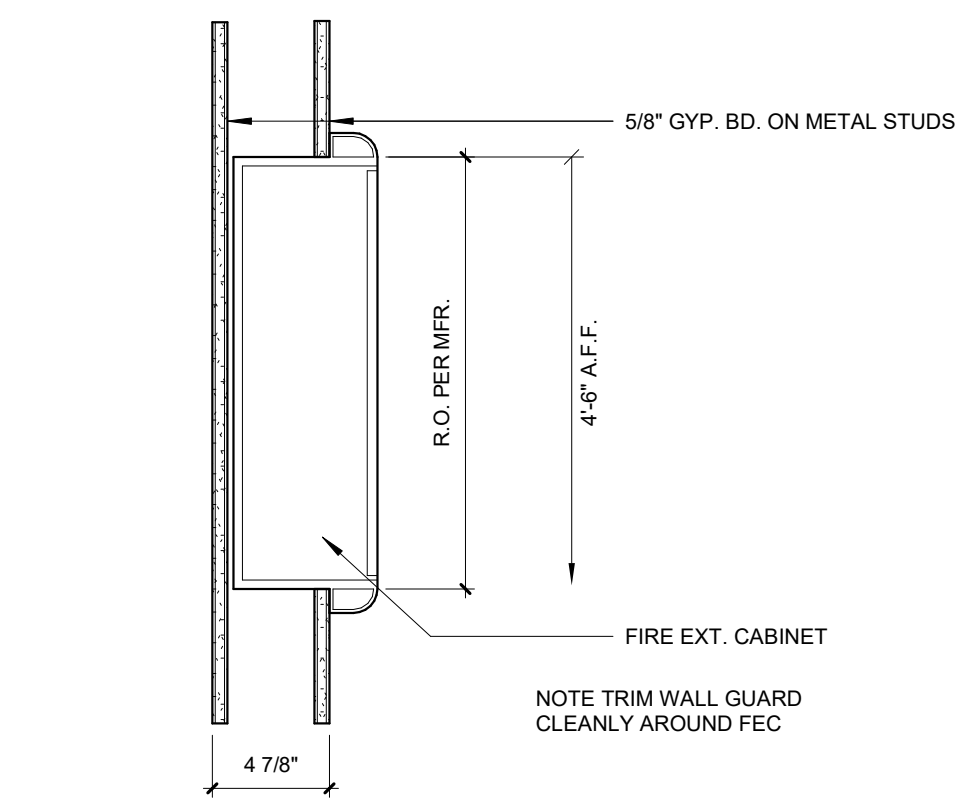


D2 TYPICAL SINGLE VINYL CORNER GUARD
3" = 1'-0"

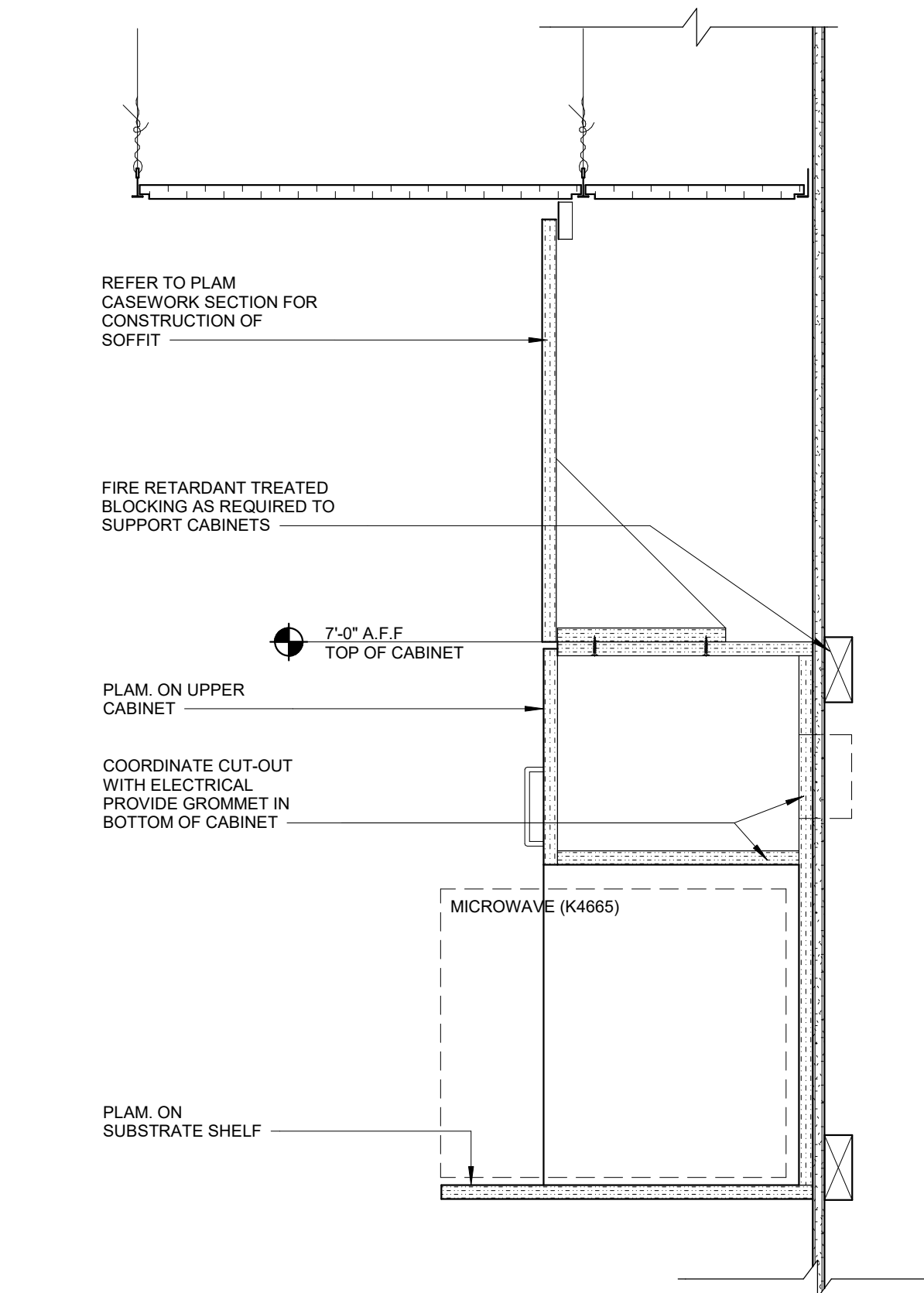


- TYP. CABINET NOTES:**
1. PROVIDE PLAM FILLER WHERE CABINETS BUTT UP TO WALLS.
 2. ALL COUNTERTOPS HAVE A 4" BACKSPLASH (MATERIAL TO MATCH COUNTERTOP) AND OUTSIDE CORNERS HAVE 1 1/2" RADIUS EXCEPT WHERE NOTED OTHERWISE.
 3. CASEWORK MFR. TO SUPPLY (2) - 2" [GROMMETS PER KNEESPACE, GROMMETS TO BE INSTALLED IN FIELD AS DIRECTED BY OWNER. COLOR TO BE SELECTED BY ARCHITECT]
 4. PLASTIC LAMINATE COUNTERTOP EDGES SHALL BE 3 MM PLASTIC. COLOR AS SELECTED BY ARCHITECT)

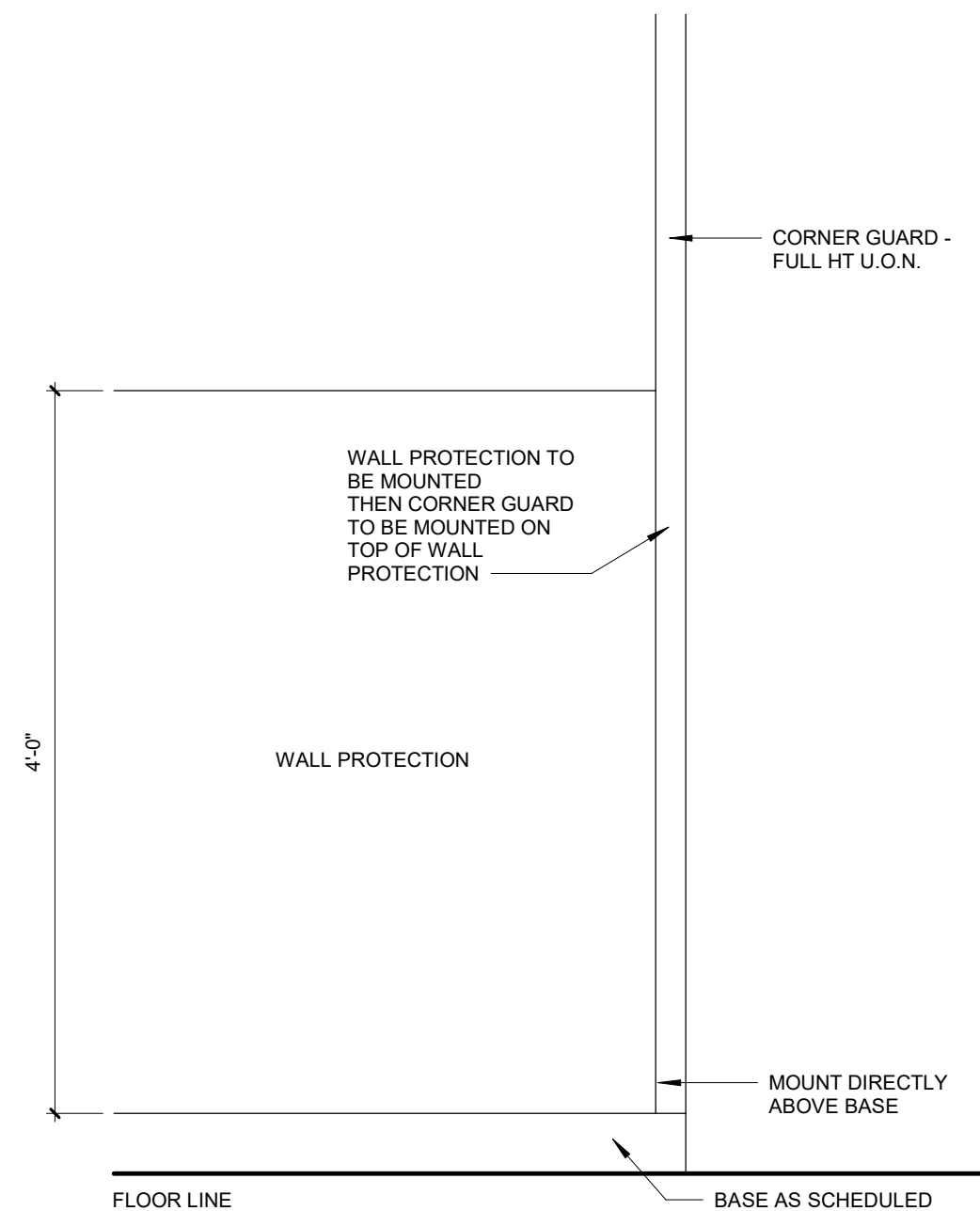
D1 CASEWORK ISOMETRIC
1 1/2" = 1'-0"



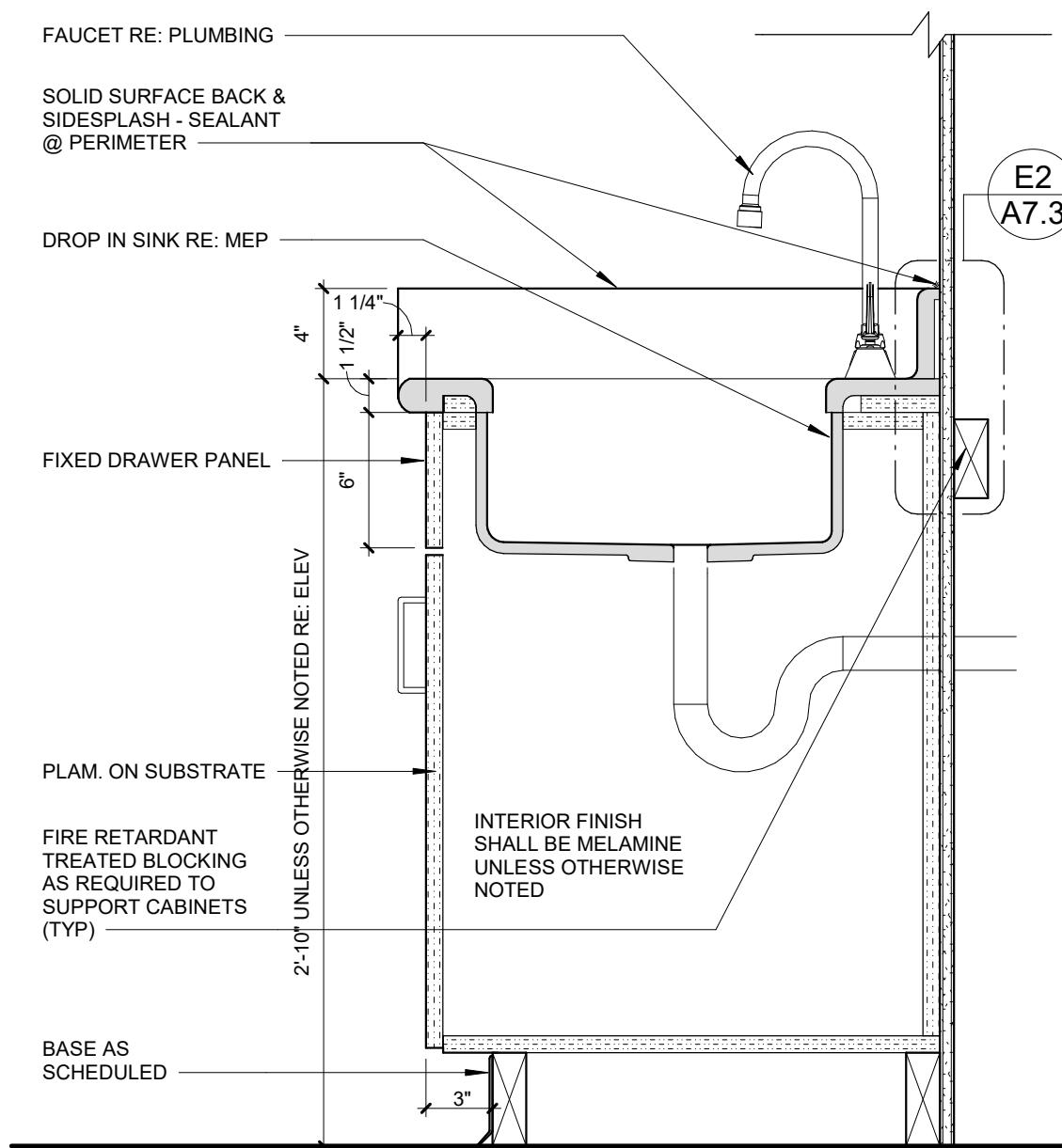
B3 SECTION - F.E.C. NON-RATED WALL CONDITION
1 1/2" = 1'-0"



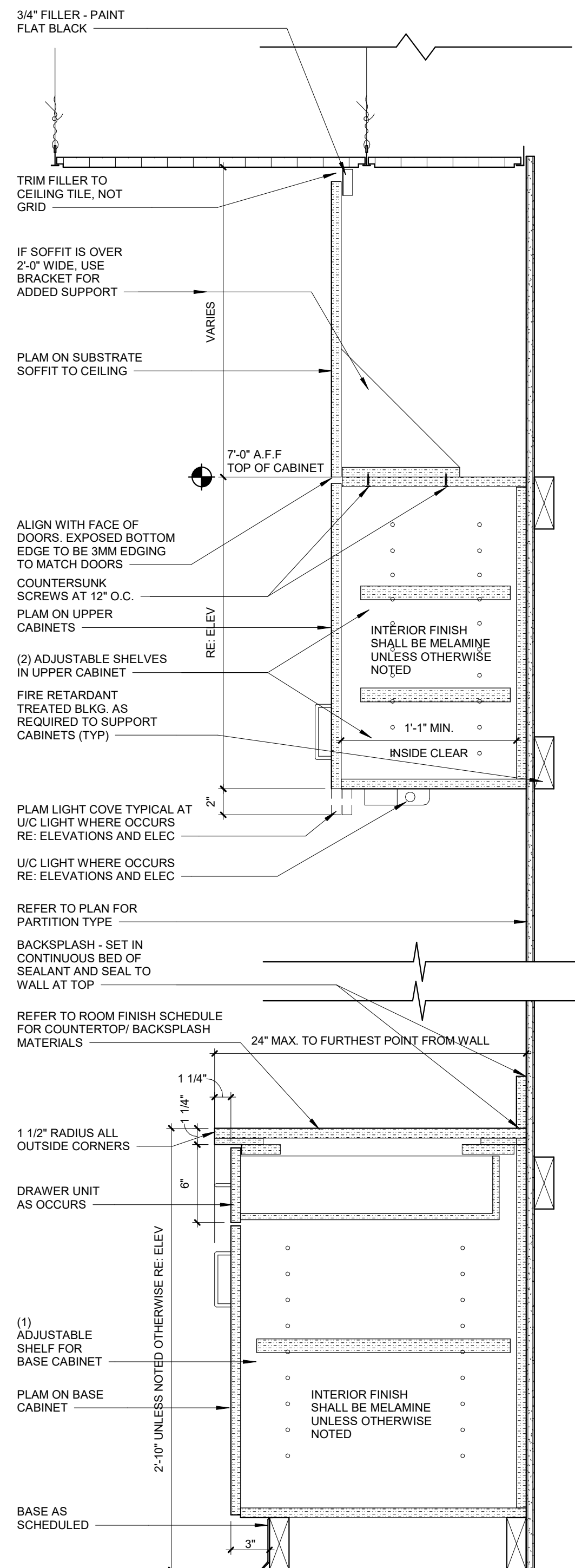
B2 WALL-MOUNTED MICROWAVE SHELF
1 1/2" = 1'-0"



A3 TYP. ELEV. OF WALL PROTECTION/CORNER GUARD
1" = 1'-0"



A2 SINK BASE CABINET SECTION
1 1/2" = 1'-0"

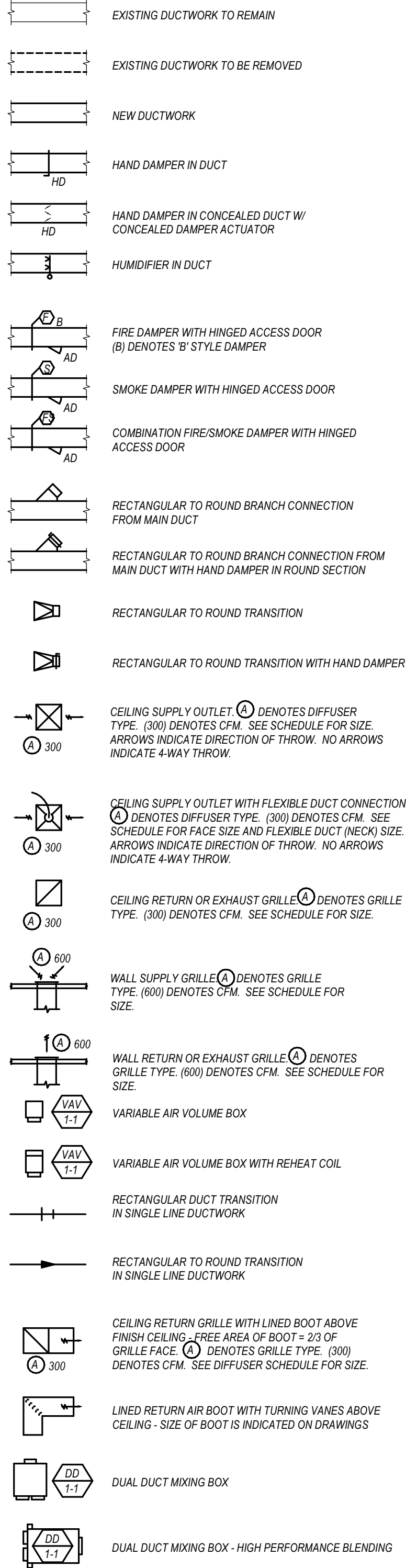


A1 CASEWORK SECTION
1 1/2" = 1'-0"

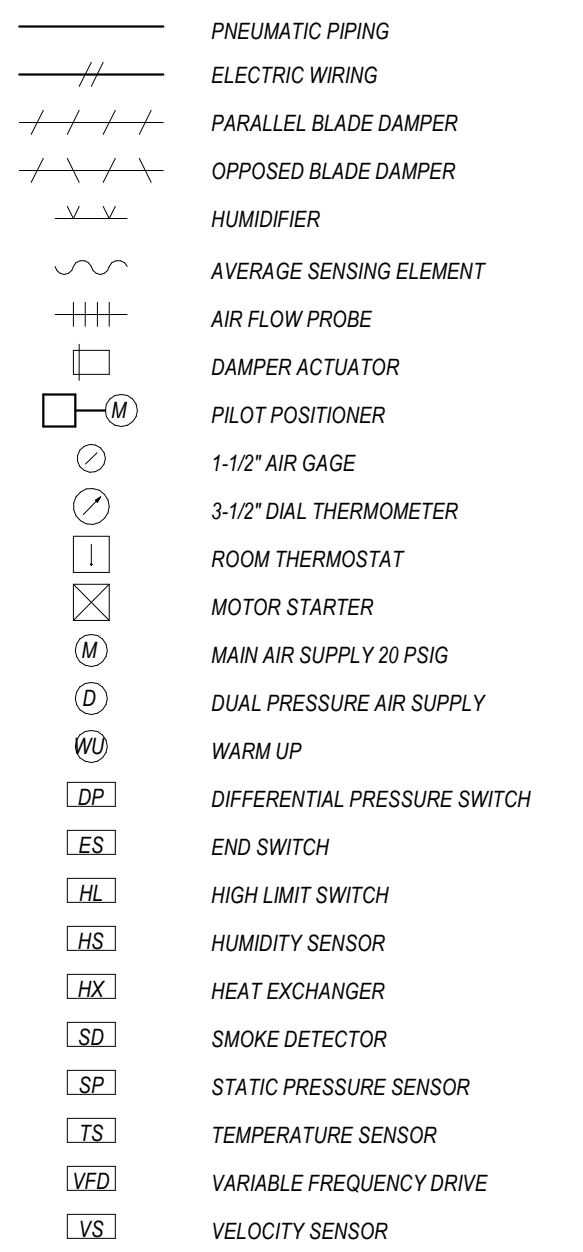
ABBREVIATIONS	
ABBREV.	DESCRIPTION
AAV	AUTOMATIC AIR VENT
ABAN	ABANDON
ABV	ABOVE
AC	AIR CONDITIONING UNIT
ACC	AIR COOLED CONDENSER
ACU	AIR COOLED CONDENSING UNIT
AD	ACCESS DOOR
AF	AFTER FILTER
AFB	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AMB	AMBIENT
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
AS	AIR SEPARATOR
ATM	ATMOSPHERE
ATMV	ATMOSPHERIC VENT
AWT	AVERAGE WATER TEMPERATURE
BB	BAR BARRE
BDD	BACKDRAFT DAMPER
BFWP	BOILER FEED WATER PUMP
BFW	BOILER FEED WATER
BHP	BOILER HORSEPOWER
BLDG	BUILDING
BLMDN	BLOWDOWN
BS	BLOWDOWN SEPARATOR
BLW	BELOW
BM	BEAM
BOT	BOTTOM
BOD	BOTTOM OF DUCT
BSMT	BASEMENT
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
C	CONVERTER
CCT	CENTER TO CENTER
CC	CEILING COIL
CF	CUBIC FEET
CFM	CUBIC FEET PER MINUTE
CFP	CHEMICAL FEED PUMP
CHD	CONCEALED HAND DAMPER W/ REMOTE OPERATOR
CHL	CHILLER
CJ	CONSTRUCTION JOINT
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR
CO	CLEANOUT
COL	COLUMN
CONC	CONCRETE
COND	CONDENSATE
CONDNR	CONDENSOR
CONN	CONNECTION
CONT	CONTINUATION/CONTINUOUS
CONV	CONVECTOR
COP	COEFFICIENT OF PERFORMANCE
CP	CONTROL PANEL
CPF	CHEMICAL POT FEEDER
CRP	CONDENSATE RETURN PUMP
CT	COOLING TOWER
CUFT	CUBIC FEET
CU IN	CUBIC INCHES
DB	DEGREE FAHRENHEIT
DEG	DEGREE FAHRENHEIT
DEMO	DEMOLITION
DET	DETAIL
DIA	DIAMETER
DM	DIMENSION
DLV	DOOR/LOUVER
DMPR	DAMPER
DN	DOWN
DR	DRAWING
DWG	DRAWING
EX	EXISTING
EA	EACH
EAT	ENTERING AIR TEMPERATURE
EABT	ENTERING DRY BULB TEMPERATURE
EAF	EXHAUST FAN
EFF	EFFICIENCY
EJ	EXPANSION JOINT
ELEC	ELECTRICAL
ELEV	ELEVATION
ENT	ENTERING
EQ	EQUAL
ET	EXPANSION TANK
EXH	EXHAUST
EXP	EXPANSION
EXT	EXTERIOR
EWT	ENTERING WET BULB TEMPERATURE
EWV	ENTERING WATER TEMPERATURE
FA	FACE AREA
FCV	FLOW CONTROL VALVE
FD	FIRE DAMPER
FE	FIRE FILTER
FFA	FROM FLOOR ABOVE
FFB	FROM FLOOR BELOW
FLA	FULL LOAD AMP
FMD	FLOW MEASURING DEVICE
FFM	FEET PER MINUTE
FSD	FIRE AND SMOKE DAMPER
FSS	FLOW SENSING SWITCH
FT	FEET

ABBREVIATIONS	
ABBREV.	DESCRIPTION
FTT	FINNED TUBE RADIATION
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GRD	GROUND
GPM	GALLON PER MINUTE
GR	GRILLE
GSNK	GOOSENECK
H	HEATING COIL
HX	HEAT EXCHANGER
HORIZ	HORIZONTAL
HP	HORSEPOWER
HP	HIGH PRESSURE
HPT	HIGH POINT
HTG	HEATING
HZ	HERTZ
IN	INCHES
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LB	POUND
LD	LINEAR DIFFUSER
LDBT	LEAVING DRY BULB TEMPERATURE
LWB	LEAVING WET BULB TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
M	MOTORIZED DAMPER
MAT	MIXED AIR TEMPERATURE
MAX	MAXIMUM
MBTU	BRITISH THERMAL UNIT (1000)
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL
MEZZ	MEZZANINE
MIN	MINIMUM
MISC	MISCELLANEOUS
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
CFM	CUBIC FEET PER MINUTE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OPNG	OPENING
OPWT	OPERATING WEIGHT
P	PUMP
PA	PIPE ANCHOR
PCF	POUNDS PER CUBIC FOOT
PEN	PENETRATION
PEP	PERFORATOR
PL	PLATE
PRV	PRESSURE REDUCING VALVE
PSA	POUNDS PER SQUARE INCH (ABSOLUTE)
PSIG	POUNDS PER SQUARE INCH (GAUGE)
RA	RETURN AIR
RD	RETURN DIFFUSER
RET	RETURN
CP	CONTROL PANEL
RG	RETURN GRILLE
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RP	REVOLUTIONS PER MINUTE
S	STEAM TRAP
SA	SUPPLY AIR
SD	SUPPLY DIFFUSER
SF	SUPPLY FAN
SG	SUPPLY GRILLE
SP	STATIC PRESSURE
SQ FT	SQUARE FEET
SRV	SAFETY RELIEF VALVE
SS	STEAM SEPARATOR
SST	STAINLESS STEEL
ST	SOUND ATTENUATOR
STL	STEEL
STM	STEAM
STRUCT	STRUCTURAL
TEMP	TEMPERATURE
TFA	TO FLOOR ABOVE
TFB	TO FLOOR BELOW
TG	TRANSFER GRILLE
THK	THICK
TNL	TUNNEL
TYP	TYPICAL
UD	UNDERGROUND DUCT
UG	UNDERGROUND
UN	UNLESS OTHERWISE NOTED
VAV	VARIABLE AIR VOLUME
VB	VACUUM BREAKER
VO	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
VIF	VERIFY IN FIELD
W	WITH
WB	WET BULB
WC	WATER COLUMN
WF	WATER FILTER
WG	WATER GAUGE
WMS	WIRE MESH SCREEN
WO	WITHOUT
FMD	FLOW MEASURING DEVICE
WT	WEIGHT
WS	WATER SOFTENER

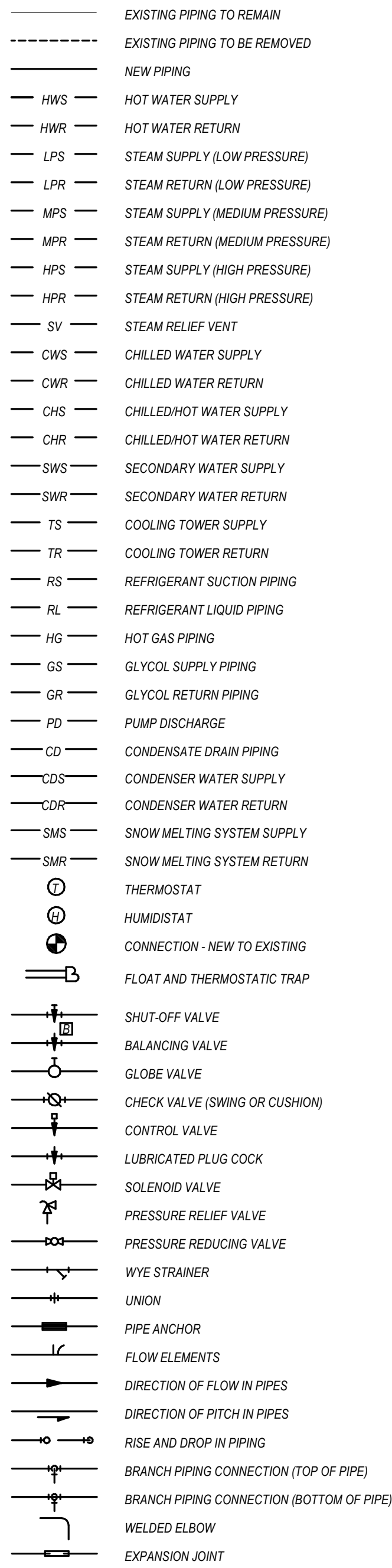
MECHANICAL SHEET METAL SYMBOLS



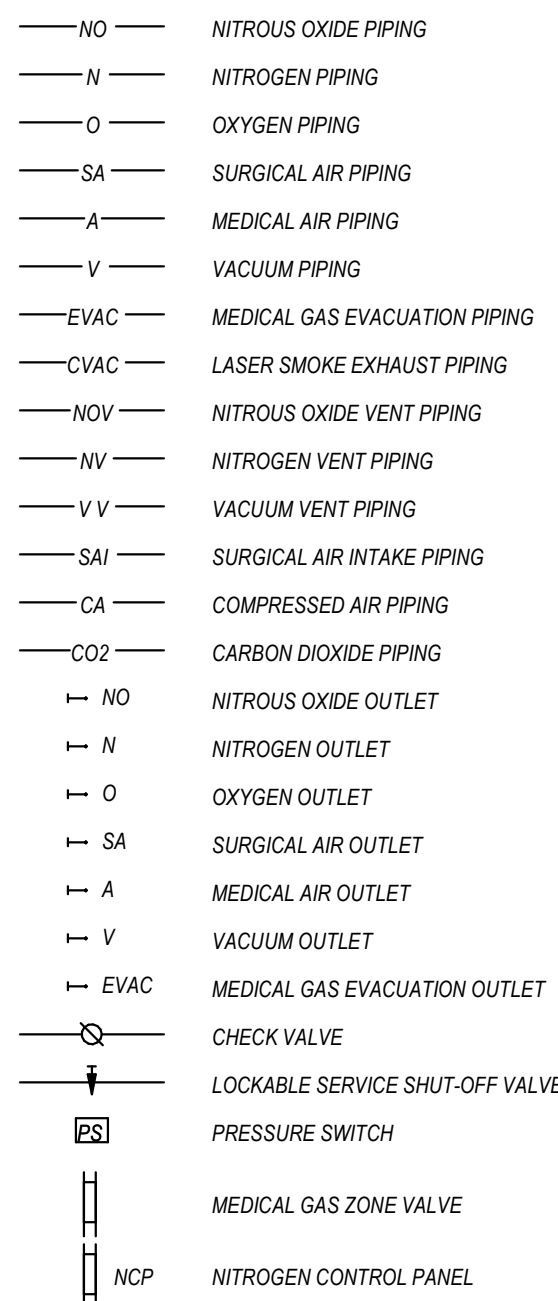
TEMPERATURE CONTROLS SYMBOLS



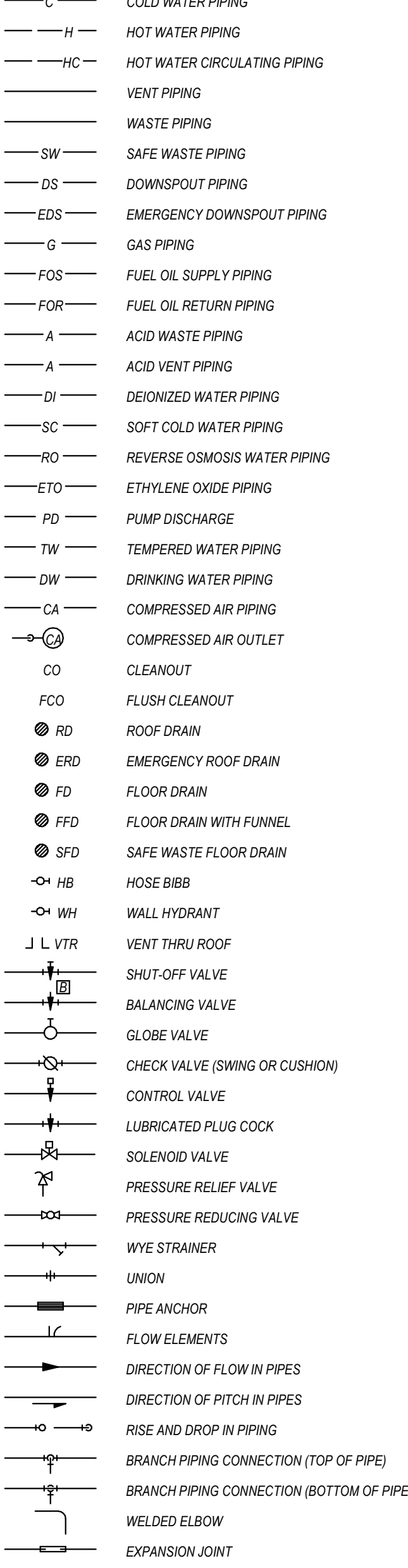
MECHANICAL PIPING SYMBOLS



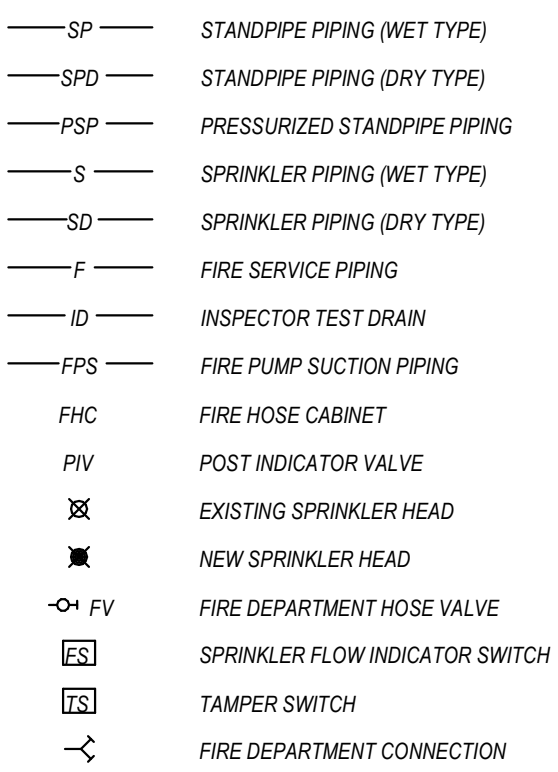
MEDICAL GAS SYMBOLS



PLUMBING SYMBOLS



FIRE PROTECTION SYMBOLS



PROJECT MECHANICAL GENERAL NOTES

- (THESE NOTES APPLY TO ALL MECHANICAL SHEETS)
- THE LOCATION OF ALL STRUCTURAL OPENINGS SHALL BE AS INDICATED ON THE MECHANICAL, STRUCTURAL, AND ARCHITECTURAL DRAWINGS. COORDINATE EXACT SIZES OF OPENINGS REQUIRED.
 - ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL FITTINGS, TRANSITIONS, DAMPERS, VALVES AND OTHER DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
 - CONTRACTOR SHALL FIELD VERIFY CLEARANCE ABOVE THE CEILING AND NOTIFY THE ENGINEER ABOUT POSSIBLE CONFLICTS.
 - DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES RELATING TO WORK TO VERIFY SPACE IN WHICH WORK WILL BE INSTALLED. MAINTAIN HEADROOM AND SPACE CONDITIONS AT ALL TIMES.
 - IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO COORDINATE ALL WORK WITH ALL OTHER TRADES. THE SHOP DRAWINGS PREPARED BY THIS CONTRACTOR SHALL INDICATE SPACE ALLOWANCES FOR ALL WORK OF ALL OTHER TRADES AND SHALL BE SIGNED OFF BY ALL OTHER CONTRACTORS.
 - CONTRACTOR SHALL VERIFY ON-SITE ALL CONDITIONS AND MEASUREMENTS SHOWN ON CONTRACT DRAWINGS.
 - ALL SUPPORTS FOR MECHANICAL EQUIPMENT ARE BASED ON PRELIMINARY INFORMATION FROM ONE MANUFACTURER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING SIZES FROM CERTIFIED DRAWINGS OF EQUIPMENT BEING SUBMITTED AND SHALL MAKE ANY STRUCTURAL MODIFICATIONS REQUIRED WITHOUT ANY ADDITIONAL COST TO OWNER. SYSTEM SHUT DOWNS SHALL BE COORDINATED AND SCHEDULE WITH OWNER AT LEAST TWO WEEKS IN ADVANCE.
 - WHERE EQUIPMENT AND/OR PIPING IS NOTED TO BE DEMOLISHED, COORDINATE WITH GENERAL CONTRACTOR PRIOR TO REMOVAL OR ENSURE THAT REMOVAL OR EQUIPMENT FALLS WITHIN PRESENT CONSTRUCTION LIMITS AND SCOPE OF WORK.
 - WHERE REFRIGERANT PIPING OR SYSTEMS ARE TO BE DEMOLISHED, RECLAIM ALL REFRIGERANT PER GUIDELINES AND STORE OR DISPOSE OF AS REQUIRED.
 - ALL STORED AND/OR PARTIALLY INSTALLED SHEET METAL PIPING, AND EQUIPMENT SHALL BE PROTECTED FROM WEATHER. CONTRACTOR SHALL COVER OPEN ENDS AT END OF WORK DAY.
 - CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE BUILDING CODE REQUIREMENTS AND PROVIDE ALL REQUIRED CONTROLLED INSPECTIONS FOR HIS WORK.
 - DUCTWORK SHALL BE INSULATED PER SPECIFICATIONS OR AS NOTED ON DRAWINGS. ALL DUCT JOINTS AND SEAMS SHALL BE SEALED PER SPECIFICATIONS.
 - DUCT AND PLENUM SIZES INDICATED ON THE DRAWINGS ARE SHEET METAL DIMENSIONS.
 - MANUAL DAMPERS SHALL BE PROVIDED IN ALL DUCT BRANCHES AND IN ALL BRANCHES TO INDIVIDUAL DIFFUSERS, GRILLES AND REGISTERS.
 - CONTRACTOR SHALL FURNISH AND INSTALL CONCEALED DAMPER ACTUATORS AND DAMPERS WHERE DAMPERS ARE INSTALLED IN INACCESSIBLE CEILINGS.
 - EXACT LOCATIONS OF ALL CEILING DIFFUSERS, REGISTERS AND GRILLES DETAILED ON THE ARCHITECTURAL REFLECTIVE CEILING PLAN, AND ARCHITECTURAL ROOM ELEVATIONS.
 - ALL DUCTWORK SHALL BE CONSTRUCTED, ERECTED AND TESTED IN ACCORDANCE WITH THE MOST RESTRICTIVE OF LOCAL REGULATIONS, PROCEDURES DETAILED IN THE ASHRAE HANDBOOK OF FUNDAMENTALS, OR THE APPLICABLE STANDARDS ADOPTED BY THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA).
 - PROVIDE METAL COVER PLATES FOR ALL PIPES LOCATED AT FLOOR LEVEL TO PREVENT PIPE DAMAGE. PLATES SHALL NOT BE DAMAGED BY NORMAL MAINTENANCE TRAFFIC.
 - ALL BRANCH PIPING TO VAV BOXES, FCUS, OR OTHER COMPONENTS SHALL BE MINIMUM OF 3/4" UNLESS NOTED OTHERWISE.
 - PROVIDE MANUAL AIR VENTS, DRAINS AND RELIEF VALVES AS REQUIRED AT THE HIGH AND LOW POINTS IN THE SYSTEM.
 - PROVIDE VALVED AND CAPPED CONNECTIONS FOR DRAINAGE AT ALL LOW POINTS OF PIPING SYSTEM. MINIMUM PITCH SHALL BE SUFFICIENT TO INSURE ADEQUATE VENTING OR DRAINAGE.
 - CONTRACTOR SHALL COORDINATE INSTALLATION OF HORIZONTAL PIPE RUNS IN THE CEILING PLENUMS WITH ALL TRADES.
 - PROVIDE REDUCER FITTINGS FOR CHANGE IN PIPE SIZE AND FOR FINAL CONNECTION AT EQUIPMENT AND AS REQUIRED TO PERMIT DRAINAGE AND VENTING.
 - ALL PIPING IS SHOWN DIAGRAMMATICALLY AND DOES NOT SHOW ALL OFFSETS, DROPS AND RISERS OF RUNS.
 - THERMOSTAT AND/OR HUMIDISTAT LOCATIONS SHALL BE COORDINATED WITH LIGHT SWITCHES. FINAL LOCATIONS OF THERMOSTAT AND/OR HUMIDISTAT SHALL BE COORDINATED WITH ARCHITECT AND ENGINEER.
 - INSTALL BREAK GLASS SWITCHES FOR EMERGENCY SHUTDOWN FOR CHILLER ROOM, BOILER ROOM, AND ALL REQUIRED PRESSURE VESSELS.
 - MECHANICAL CONTRACTOR IS RESPONSIBLE TO FURNISH DISCONNECT SWITCHES AND MOTOR STARTERS FOR ALL HVAC EQUIPMENT. FOR INSTALLATION AND WIRING, MECHANICAL CONTRACTOR SHALL COORDINATE ELECTRICAL CONTRACTOR AND ELECTRICAL SPECIFICATIONS.
 - MECHANICAL CONTRACTOR IS RESPONSIBLE TO INSTALL DETACHED SMOKE DETECTOR AS INDICATED ON DESIGN DRAWINGS. DUCT MOUNTED SMOKE DETECTORS ARE FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR PER ELECTRICAL SPECIFICATIONS.
 - PROVIDE ESCUTCHEONS AND SEALING OF ALL PENETRATIONS OF FIRE SEPARATIONS IN ACCORDANCE WITH DETAIL DRAWINGS AND PER APPLICABLE CODES AS REFERENCE ON ARCHITECTURAL CODE SHEETS.
 - THIS IS A 24 HOUR OPERATING FACILITY. SO SOME WORK MAY HAVE TO BE DONE AFTER NORMAL WORKING HOURS OR ON WEEKENDS AT AN ADDITIONAL COST TO OWNER. SYSTEM SHUT DOWNS SHALL BE COORDINATED AND SCHEDULE WITH OWNER AT LEAST TWO WEEKS IN ADVANCE.

PROJECT PLUMBING GENERAL NOTES

- (THESE NOTES APPLY TO ALL PLUMBING SHEETS)
- DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES RELATING TO WORK TO VERIFY SPACE IN WHICH WORK WILL BE INSTALLED. MAINTAIN HEADROOM AND SPACE CONDITIONS AT ALL TIMES.
 - COORDINATE PLUMBING SYSTEMS WITH WORK OF ALL OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATION. PROVIDE ALL FITTINGS, OFFSETS AND TRANSITIONS AS REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
 - MAINTENANCE LABEL SHALL BE AFFIXED TO ALL PLUMBING EQUIPMENT AND A MAINTENANCE MANUAL SHALL BE PROVIDED TO OWNER.
 - CONTRACTOR SHALL REFER TO ALL THE ARCHITECTURAL DRAWINGS FOR PLUMBING RELATED WORK.
 - PLUMBING CONTRACTOR IS RESPONSIBLE TO FURNISH DISCONNECT SWITCHES AND MOTOR STARTERS FOR ALL PLUMBING EQUIPMENT. FOR INSTALLATION AND WIRING, PLUMBING CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR AND ELECTRICAL SPECIFICATIONS.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS INCLUDING BUT NOT LIMITED TO ENTERING MANHOLES. USE OF WATER FROM LOW PRESSURE HYDRANTS, DEMOLITION AND NEW WORK, ETC. PRIOR TO COMMENCEMENT OF WORK.
 - ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE CODES. PROVIDE ALL FITTINGS, TRANSITIONS, VALVES AND OTHER DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
 - ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO ALL APPLICABLE LOCAL CODES AND REGULATIONS AS REFERENCED ON ARCHITECTURAL CODE PLANS.
 - WHERE EQUIPMENT AND/OR PIPING IS NOTED TO BE DEMOLISHED, COORDINATE WITH GENERAL CONTRACTOR PRIOR TO REMOVAL OR ENSURE THAT REMOVAL OR EQUIPMENT FALLS WITHIN PRESENT CONSTRUCTION LIMITS AND SCOPE OF WORK. DEMOLITION PLANS SHOW GENERAL INTENT OF DEMOLITION WORK NOT ALL DEMO WORK MAY BE SHOWN. CONTRACTOR SHALL DISCONNECT AND REMOVE ALL ITEMS NOT REQUIRED TO REMAIN.

PROJECT FIRE PROTECTION GENERAL NOTES

- (THESE NOTES APPLY TO ALL FIRE PROTECTION SHEETS)
- COORDINATE FIRE PROTECTION SYSTEMS WITH WORK OF ALL OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATION. PROVIDE ALL FITTINGS, OFFSETS, AND TRANSITIONS AS REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
 - COMPLETE SPRINKLER INSTALLATION WITH ALL EQUIPMENT, SPRINKLER HEADS, PIPES, FITTINGS, DRAINS AND HANGERS.
 - UNLESS OTHERWISE NOTED, ALL CONTROL VALVES SHALL BE PROVIDED WITH TAMPER SWITCHES.
 - SPRINKLER PIPING SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE. HANGERS AND SUPPORTS SHALL BE UL LISTED APPROVED FOR USE IN SPRINKLER SYSTEMS. WHERE FIELD CONDITIONS DO NOT PERMIT SUPPORTING FROM THE BUILDING STRUCTURE, PROVIDE ADDITIONAL STEEL FRAMING AS REQUIRED. NO SPRINKLER PIPING SHALL BE HUNG FROM THE PIPING OF OTHER TRADES OR MECHANICAL SYSTEMS.
 - MINIMUM OF 18" CLEARANCE SHALL BE MAINTAINED BETWEEN TOP OF STORAGE AND SPRINKLER DEFLECTOR.
 - FIRE SPRINKLER CONTRACTOR SHALL OBTAIN APPROVAL FROM THE FIRE MARSHAL AND AUTHORITIES HAVING JURISDICTION FOR THE SPRINKLER SYSTEM PRIOR TO INSTALLATION.
 - FIRE SPRINKLER CONTRACTOR SHALL PREPARE AND SUBMIT PRIOR TO ANY FABRICATION AND INSTALLATION OF ALL NECESSARY DRAWINGS AND/OR DOCUMENTS FOR THE PROVISION AND INSTALLATION OF A FULLY AUTOMATIC FIRE SPRINKLER SYSTEM THROUGHOUT THE BUILDING, IN ACCORDANCE WITH AND SUBJECT TO THE INTERNATIONAL BUILDING AND FIRE CODES AND THE AUTHORITIES HAVING JURISDICTION.
 - ENTIRE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE INTERNATIONAL BUILDING AND FIRE CODES, AND ALL LOCAL FIRE DEPARTMENT REQUIREMENTS.
 - ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE CODES. PROVIDE ALL FITTINGS, TRANSITIONS, VALVES, AND OTHER DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.

SEAL OF THE STATE OF MISSOURI
BRUCE ELDON
GOVERNOR
NUMBER
PROFESSIONAL ENGINEER

9/18/2020

Brace E. Hart
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Licensee's Certificate of Authority Number:
Missouri: #000958

Saint Luke's

EAST HOSPITAL

LAB REMODEL

100 NE ST LUKES BLVD, LEE'S SUMMIT, MO

64086

Date9/18-2020

Job Number3-20030

Drawn ByMUL

Checked ByBEH

Revision

NumberDateDescription

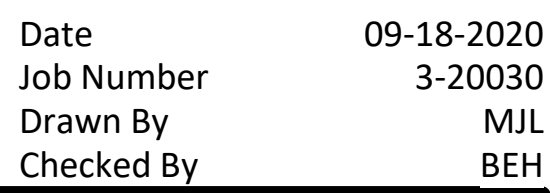
PM000

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SYMBOLS, ABBREVIATIONS, & GENERAL NOTES

1 REFER TO GENERAL NOTES ON SHEET PM000 AND SHEET DP2.1.

- 1 CUT 3" WASTE PIPING AND REMOVE UPSTREAM PIPING THAT SERVED SINK AND/OR FLOOR DRAIN ABOVE, INCLUDING ASSOCIATED VENT PIPING UP THRU FIRST FLOOR SLAB. PATCH SLAB AS SPECIFIED AND PROTECT REMAINING 3" WASTE PIPING FOR NEW CONNECTION. RE: SHEET P2.0.
- 2 CUT AND CAP 3" WASTE PIPING THAT SERVED FLOOR DRAIN ABOVE.
- 3 CUT VENT PIPING BELOW SLAB AND REMOVE VENT PIPING BELOW SLAB ASSOCIATED WITH THE FLOOR DRAIN THAT IS BEING REMOVED. PROTECT VENT PIPING RISER FOR A NEW CONNECTION JUST BELOW THE SLAB. RE: SHEET P2.0.



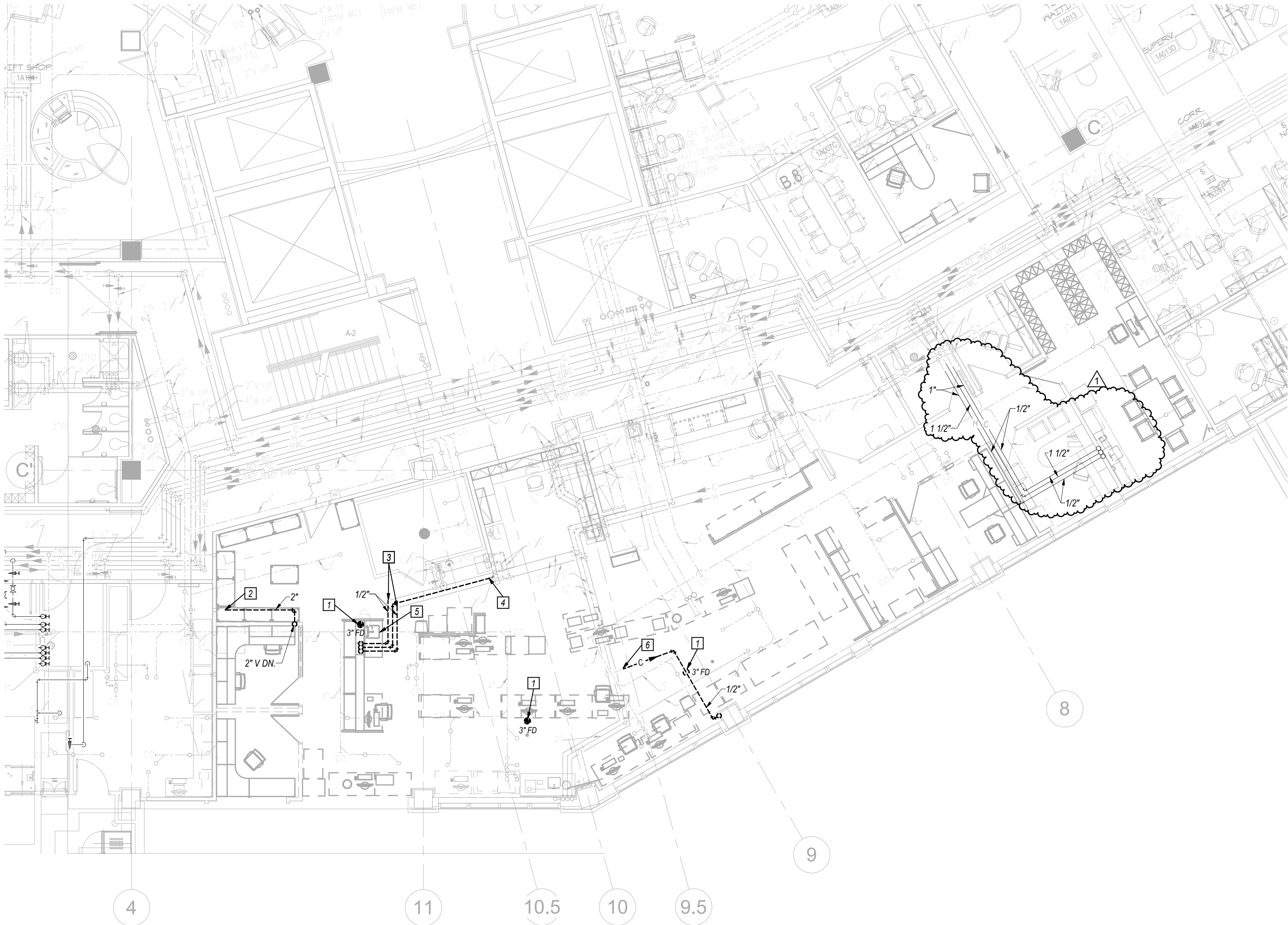
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Number	Date	Description

Revision		
Number	Date	Description

DP2.0

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CLIMBING BASEMENT DEMOLITION
PLAN



GENERAL NOTES

- 1 SEE SHEET PM001 FOR GENERAL NOTES AND SYMBOLS LISTS.
- 2 THIS PLAN SHOWS GENERAL INTENT OF DEMOLITION WORK. CONTRACTOR SHALL COORDINATE DEMOLITION WITH OWNER. THIS IS A 24-HOUR FACILITY. THEREFORE, WORK MAY NEED TO BE COMPLETED AFTER NORMAL WORKING HOURS OR DURING WEEKENDS AT NO EXTRA COST TO THE OWNER. ALL SHUTDOWNS SHALL BE COORDINATED AND SCHEDULED WITH OWNER A MINIMUM OF TWO WEEKS BEFORE BEGINNING WORK.
- 3 WORK SHOWN LIGHTLY IS EXISTING TO REMAIN. WORK SHOWN DASHED BOLD IS WORK TO BE REMOVED.
- 4 REMOVE PLUMBING FIXTURES, PIPING, DRAINS, EQUIPMENT, ETC. AS SHOWN. CAP PIPING BELOW FLOOR. BEHIND WALLS AND PATCH OPENINGS AS REQUIRED. PIPING NOT REQUIRED TO REMAIN TO BE REMOVED TO MAINS AND CAPPED. PATCH FLOOR OPENINGS NOT REQUIRED TO REMAIN TO MATCH EXISTING GRADE.
- 5 REMOVE SPRINKLER HEADS ASSOCIATED BRANCH PIPING AS REQUIRED IN REMODEL AREAS. RELOCATE SPRINKLER MAINS AS REQUIRED FOR NEW WORK.
- 6 CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO DEMOLITION.
- 7 NOT ALL DEMOLITION WORK MAY BE SHOWN. CONTRACTOR SHALL DISCONNECT AND REMOVE ALL ITEMS NOT REQUIRED TO REMAIN.
- 8 OWNER SHALL HAVE FIRST RIGHT OF REFUSAL AN ALL EQUIPMENT REMOVED.

KEYED NOTES

- 1 DISCONNECT AND REMOVE FLOOR DRAIN. PATCH SLAB AS SPECIFIED.
- 2 CUT 2" V AND REMOVE PIPING DOWN THRU SLAB THAT SERVED NEARBY FLOOR DRAIN. PATCH SLAB AS SPECIFIED. PROTECT REMAINING PIPING FOR NEW CONNECTION. RE: SHEET P2.1.
- 3 CUT 1/2" C AND 1/2" W AND REMOVE DOWNSIDE PIPING TO SINK. PROTECT REMAINING PIPING FOR NEW CONNECTIONS. RE: SHEET P2.1.
- 4 CUT AND CAP 1 1/2" V AND REMOVE PIPING THAT SERVED SINK.
- 5 DISCONNECT AND REMOVE SINK AND ACCESSORIES. REMOVE WASTE PIPING DOWN THRU SLAB AND PATCH SLAB AS SPECIFIED.
- 6 CUT AND CAP AND REMOVE DOMESTIC WATER PIPING NOT REQUIRED TO REMAIN.
- 7 NOT USED.
- 8 NOT USED.

STATE OF MISSOURI
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HART
NUMBER
PROFESSIONAL ENGINEER

09/18/2020

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64086

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Drawn ByMJL

Checked ByBEH

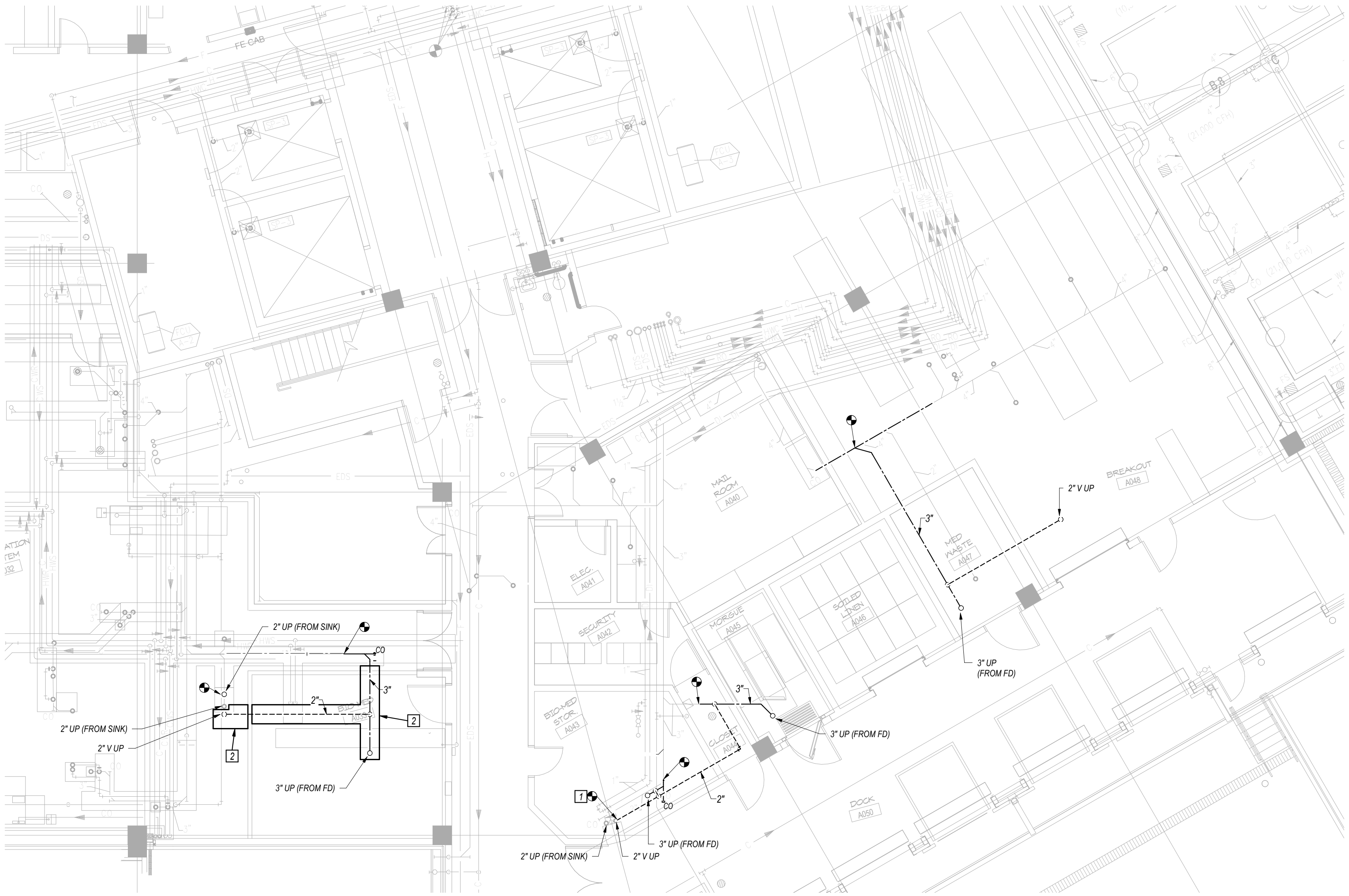
Revision

Number	Date	Description
1	10.12.20	ADDENDUM #1

DP2.1

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PLUMBING FIRST FLOOR
DEMOLITION PLAN



1 BASEMENT PLUMBING PLAN
1/8" = 1'-0"



GENERAL NOTES

1 REFER TO GENERAL NOTES ON SHEET PM000 AND SHEET P2.1.

KEYED NOTES

- 1 CONNECT NEW 2" V PIPING TO EXISTING 2" V RISER JUST BELOW SLAB, WHERE IT WAS CUT DURING DEMOLITION.
- 2 SHEET METAL DRIP PAN BELOW NEW PIPING. PAN SHALL BE 24" WIDE BY 3" DEEP. CONNECT NEW SEGMENTS OF DRIP PAN TO EXISTING DRIP PANS AS REQUIRED, AND SLOPE THE NEW SEGMENTS TO DRAIN INTO THE EXISTING DRIP PANS.

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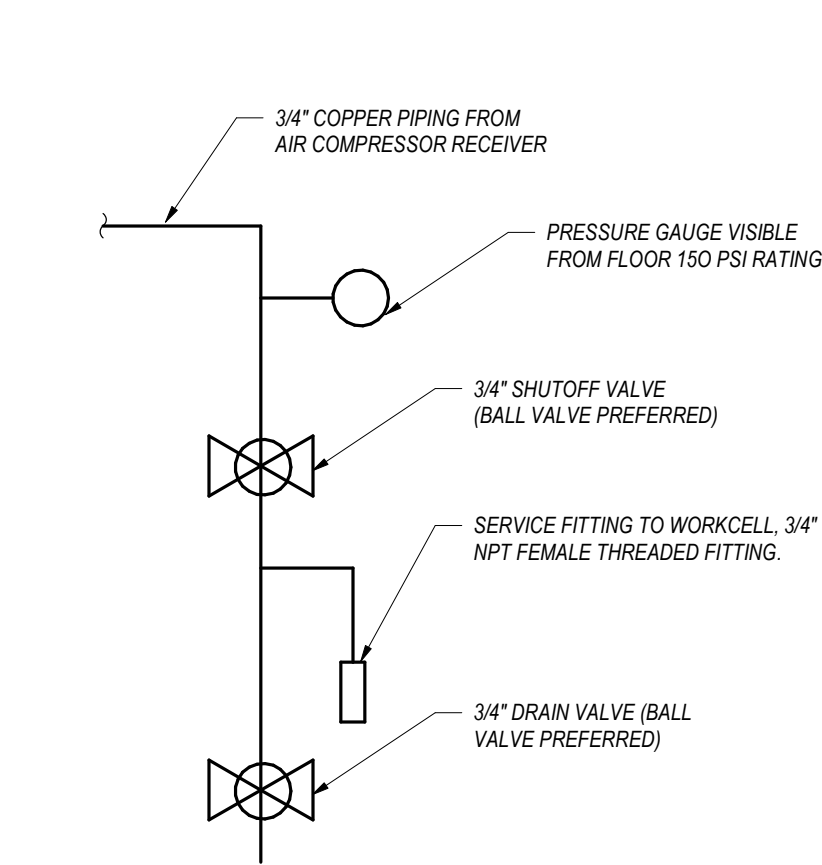
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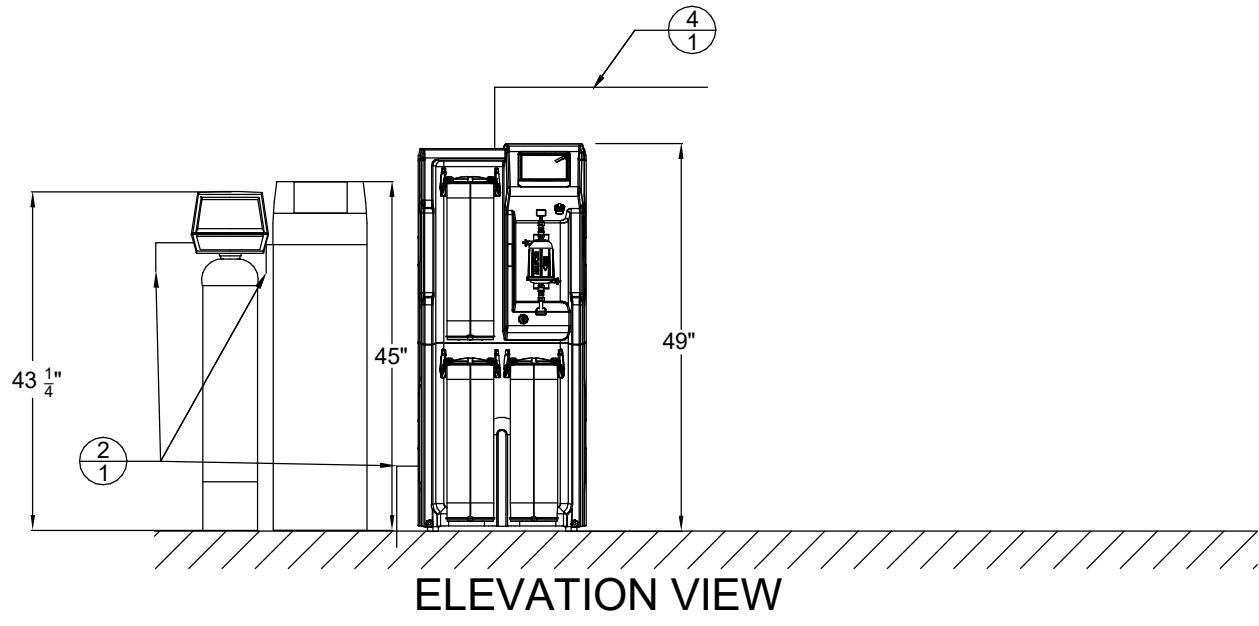
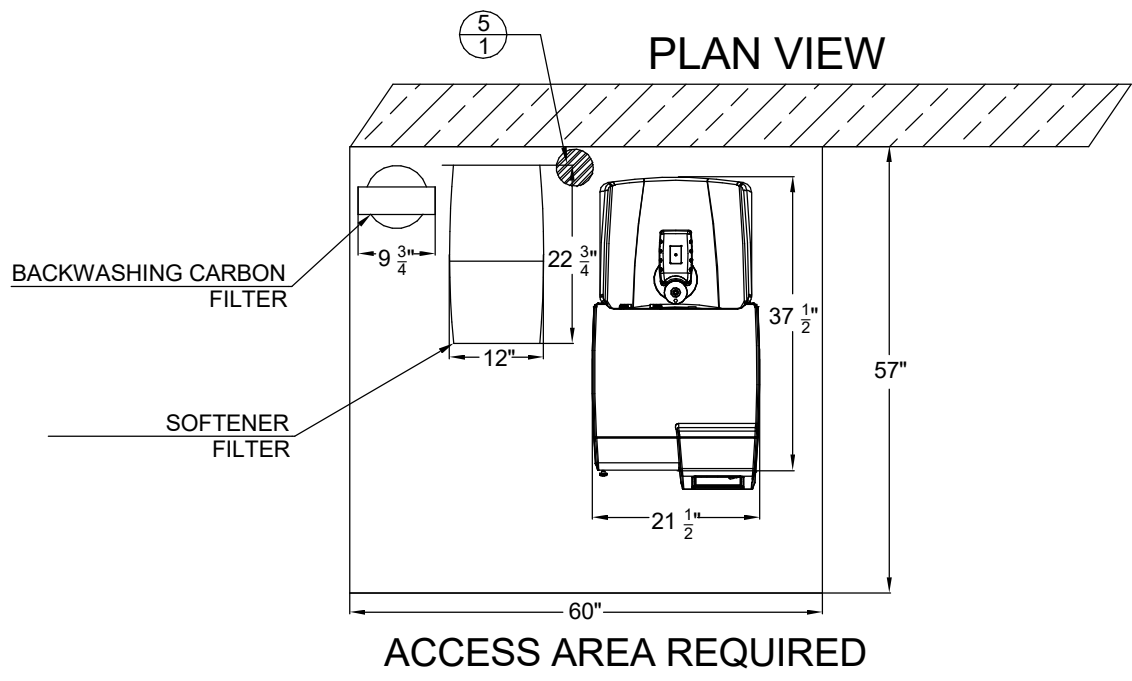
P2.0

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PLUMBING BASEMENT PLAN



3
DETAIL OF COMPRESSED AIR PIPING AT
SYSTEM CONNECTION POINT
N.T.S.



INTERFACE CALL-OUT TABLE		
TAG	DESCRIPTION	LOCATION
1-1	Feed water source - provide 3/4" npt male connection with isolation ball valve. 30 LPM at 50 - 85 psi.	On wall, within 5 feet of system. If under a sink, provide 2" Ø hole in counter or casework for tubing for connection to system by MilliporeSigma
2-1	Reject from make-up system and pre-treatment	MilliporeSigma will run tubing from system to floor drain provided by contractor.
3-1	Not used.	
4-1	Distribution recirculating loop. MilliporeSigma will provide & install MAX 60 feet of 16 mm OD (10 mm ID) flexible tubing to feed analyzer(s).	Surface mounted in accessible location.
5-1	Floor drain or stand pipe by others, capable of handling 30 LPM flow.	MilliporeSigma will run tubing from system to floor drain provided by contractor.

4
DETAIL OF MILLEPORE WATER
PURIFICATION SYSTEM
N.T.S.

SPRINKLER NOTE

SPRINKLER CONTRACTOR SHALL DISCONNECT, REMOVE, AND RELOCATE ANY AND/OR ALL SPRINKLER PIPING AND SPRINKLER HEADS AS REQUIRED BY MECHANICAL, ELECTRICAL, AND GENERAL CONTRACTORS. AFTER ALL LARGER DUCTWORK AND PIPING HAVE BEEN INSTALLED, SPRINKLER CONTRACTOR SHALL REINSTALL SPRINKLER PIPING AND HEADS REQUIRED TO SPRINKLER REMODELED SPACE. SPRINKLER CONTRACTOR SHALL ALSO INSTALL NEW SPRINKLER HEADS AND/OR PIPING AS REQUIRED BY REMODEL OF SPACE. ALL SPRINKLER HEADS SHALL BE CONCEALED TYPE.

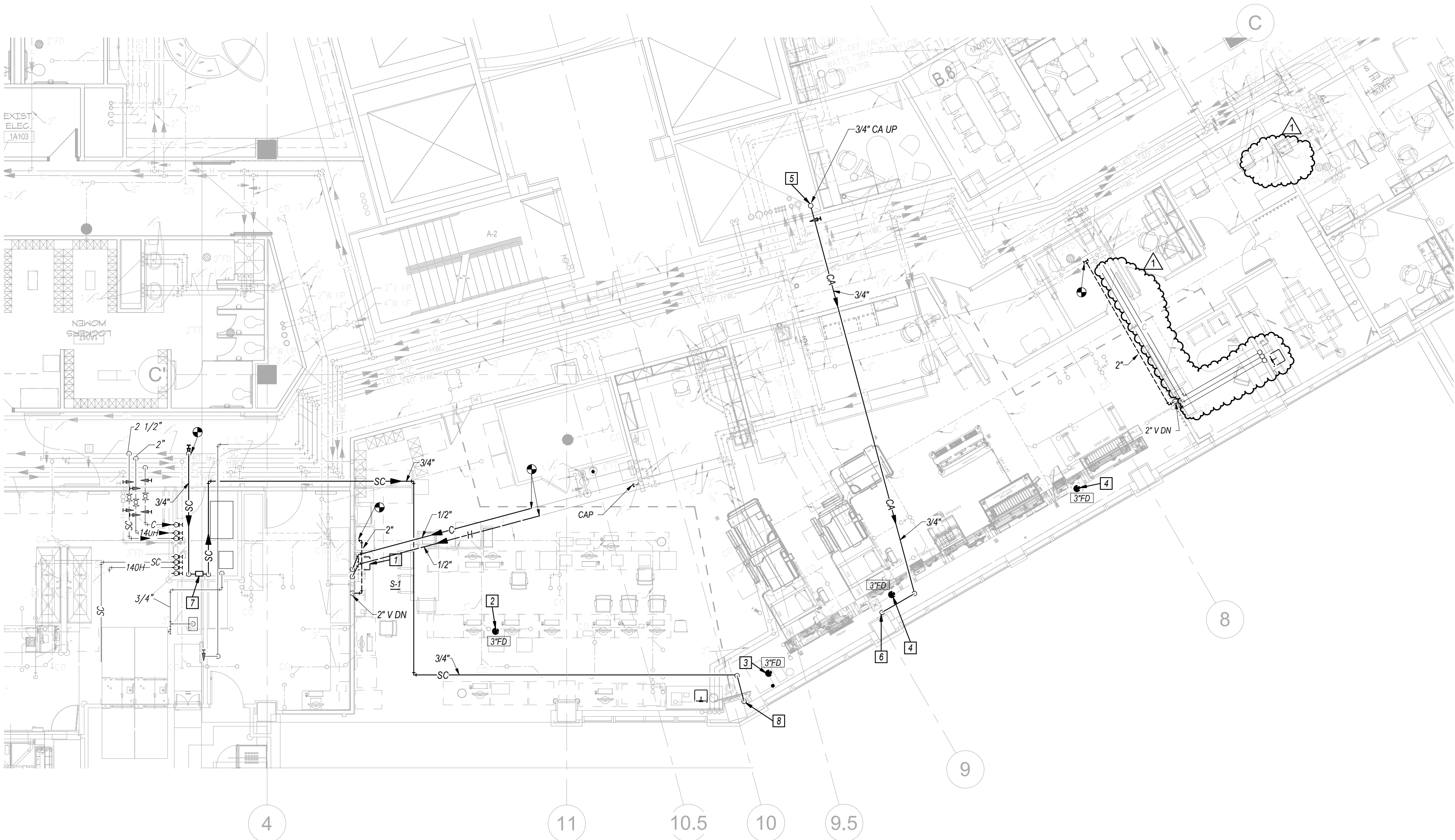
GENERAL NOTES

- 1 SEE SHEET PM000 FOR GENERAL NOTES AND SYMBOLS LISTS.
- 2 WORK SHOWN LIGHTLY IS EXISTING TO REMAIN. ALL NEW WORK SHOWN BOLD AND DARK.
- 3 THIS IS A 24-HOUR FACILITY. THEREFORE, WORK MAY NEED TO BE COMPLETED AFTER NORMAL WORKING HOURS OR DURING WEEKENDS AT NO EXTRA COST TO THE OWNER. ALL SHUTDOWNS SHALL BE COORDINATED AND SCHEDULED WITH OWNER A MINIMUM OF TWO WEEKS BEFORE BEGINNING WORK.
- 4 FIELD VERIFY ALL EXISTING PIPE SIZES AND LOCATIONS PRIOR TO STARTING WORK.
- 5 CAREFULLY COORDINATE NEW WORK WITH EXISTING FIELD CONDITIONS AND OTHER TRADES.
- 6 BEFORE CORE DRILLING ANY HOLES, LOCATE REBAR IN THE SLAB BY X-RAY OR WITH RMETER. IF REBAR IN ENCOUNTERED WITHIN THE PROPOSED LOCATION OF THE HOLE THEN EITHER RELOCATE THE HOLE TO MISS REBAR OR IF THE HOLE CANNOT BE RELOCATED, CONTACT STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO CORING OR DRILLING. DO NOT CORE ANY HOLES THROUGH THE BEAM WITHOUT APPROVAL OF STRUCTURAL ENGINEER.
- 7 ALL NEW WASTE PIPING SERVING THE LAB AREA (SERVING SINKS AND FLOOR DRAINS, EXCEPT THE BREAK ROOM SINK) SHALL BE CONSIDERED "CHEMICAL WASTE PIPING". CHEMICAL WASTE PIPING AND FITTINGS SHALL BE DRIVEN "BLUE LINE" FIRE RETARDANT POLYPROPYLENE, OR APPROVED EQUAL. NEITHER CAST IRON NOR PVC IS ACCEPTABLE. ADDITIONALLY, VENT PIPING ASSOCIATED WITH THE CHEMICAL WASTE DRAINS AND LOCATED BELOW THE FIRST FLOOR SLAB SHALL BE THE SAME MATERIAL AS THE CHEMICAL WASTE PIPING.

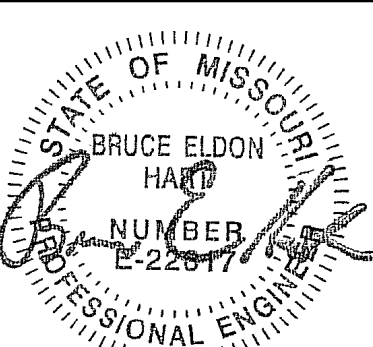
KEYED NOTES [0]

- 1 1/2" C, 1/2" H AND 1 1/2" V DN IN WALL TO NEW SINK. EXTEND 2" WASTE FROM FIXTURE DOWN IN WALL AND CORE DRILL DOWN THRU SLAB.
- 2 COORDINATE EXACT LOCATION OF NEW FLOOR DRAIN WITH OWNER PRIOR TO INSTALLATION.
- 3 COORDINATE EXACT LOCATION OF NEW FLOOR DRAIN WITH OWNER'S WATER PURIFICATION VENDOR (MILLEPORE SIGMA) PRIOR TO INSTALLATION.
- 4 COORDINATE EXACT LOCATION OF NEW FLOOR DRAIN WITH OWNER'S LAB AUTOMATION VENDOR (SIEMENS) PRIOR TO INSTALLATION.
- 5 COORDINATE EXACT LOCATION OF NEW PIPING IN EXISTG UTILITY CHASE WITH OWNER/MANAGER OF FACILITIES PRIOR TO INSTALLATION. NEW PIPING SHALL NOT BLOCK ACCESS TO EXISTG VALVES OR ANY OTHER ITEMS REQUIRING ACCESS. ROUTE PIPING FROM FIRST FLOOR UP THROUGH SECOND FLOOR LEVEL (NOT SHOWING TO THIRD FLOOR LEVEL).
- 6 3/4" CA DOWN TO LAB AUTOMATION SYSTEM CONNECTION POINT. RE DETAIL ON THIS SHEET.
- 7 3/4" SOFT COLD WATER DOWN TO NEW 3/4" REDUCED-PRESSURE BACKFLOW PREVENTER MOUNTED IN ACCESSIBLE LOCATION ON WALL. EXTEND DRAIN PIPING FROM BACKFLOW PREVENTER AND TURN DOWN OVER EXISTG FLOOR DRAIN IN THIS ROOM.
- 8 3/4" SC DOWN TO WATER PURIFICATION SYSTEM CONNECTION POINT. RE DETAIL ON THIS SHEET.
- 9 NOT USED.

PLUMBING FIXTURE SCHEDULE									
MARK	FIXTURE	DESCRIPTION	ACCESSORIES	MANFR AND MODEL NO.	WASTE	VENT	COLD	HOT	
OM	NOT USED								
S-1	LABORATORY CRITICAL AREA SINK	17" X 17" 16 GAUGE NO. 303 STAINLESS STEEL SINGLE COMPARTMENT SINK WITH COVED CORNERS. SELF-RIMMED. 1/4" DIA. SATIN FINISH. UNDERSIDE FULLY SOUND DEADENED.	ELKAY NO. 1X4-1/2" BRASS GRID STRAINER AND 1 1/2" C.P. BRASS TAILPIECE. CHICAGO FAUCET NO. B65-3170KCP. FAUCET, 4" CENTERS. NO. ONGA 5-38" SPOUT. NO. 317 4" WRIST BLADE HANDLES AND 70° FLOW CONTROL DEVICE. DEARBORN NO. 510-17 GAUGE 1-1/2" TP TRAP WITH CLEANOUT AND ESCUTCHEON. DEARBORN NO. 2712 KCW HOT AND COLD WATER COMPRESSION INLET SUPPLIES WITH STOPS.	ELKAY NO. LR-1720	2"	1 1/2"	1/2"	1/2"	



1
PLUMBING FIRST FLOOR PLAN
1/8" = 1'-0"



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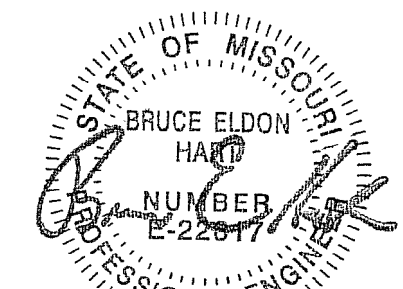
Date 09-18-2020
Job Number 3-20030
Drawn By MJL
Checked By BEH

Revision
Number Date Description
1 10.12.20 ADDENDUM #1

P2.1

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PLUMBING FIRST FLOOR PLAN,
SCHEDULE & DETAILS



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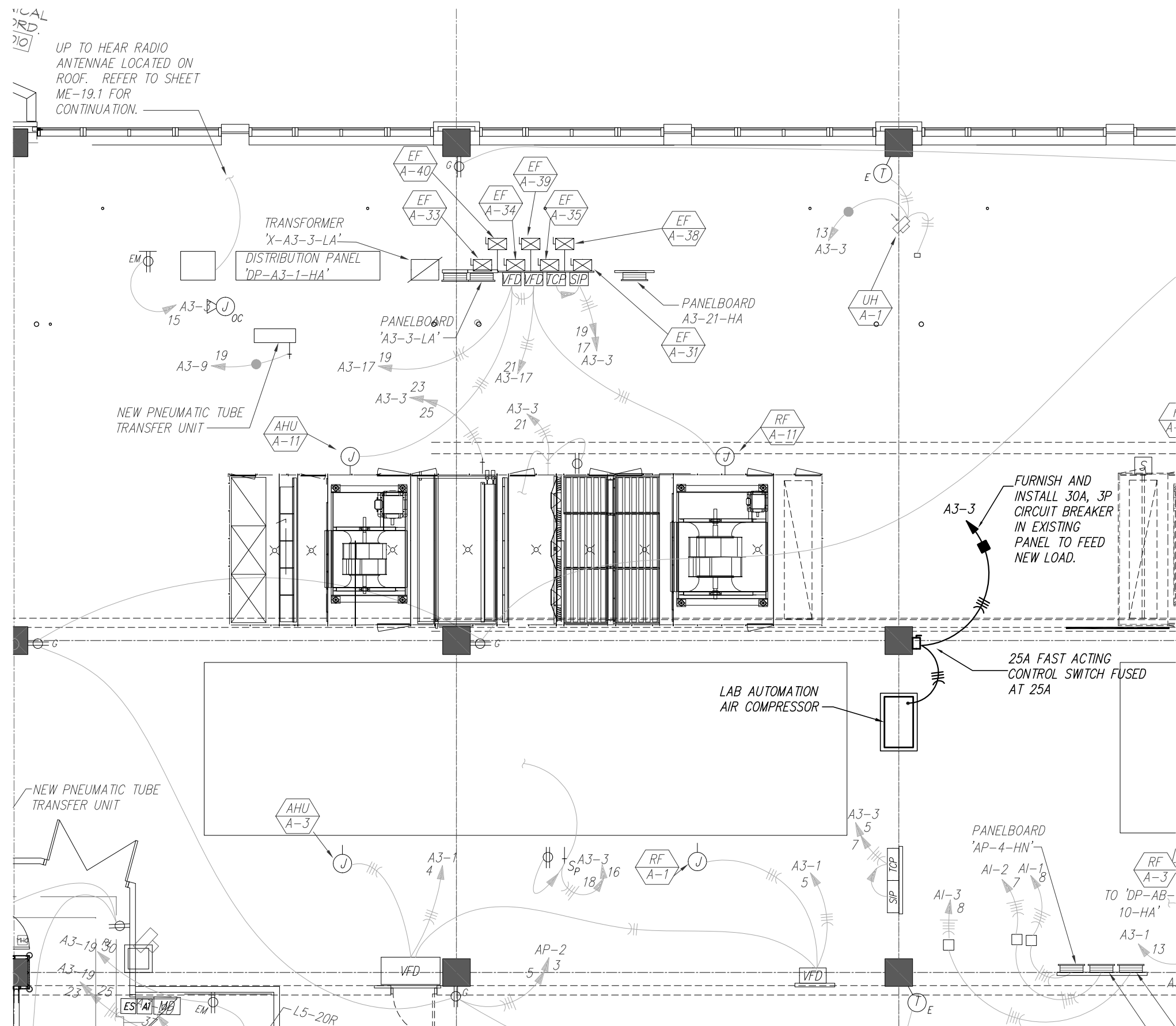
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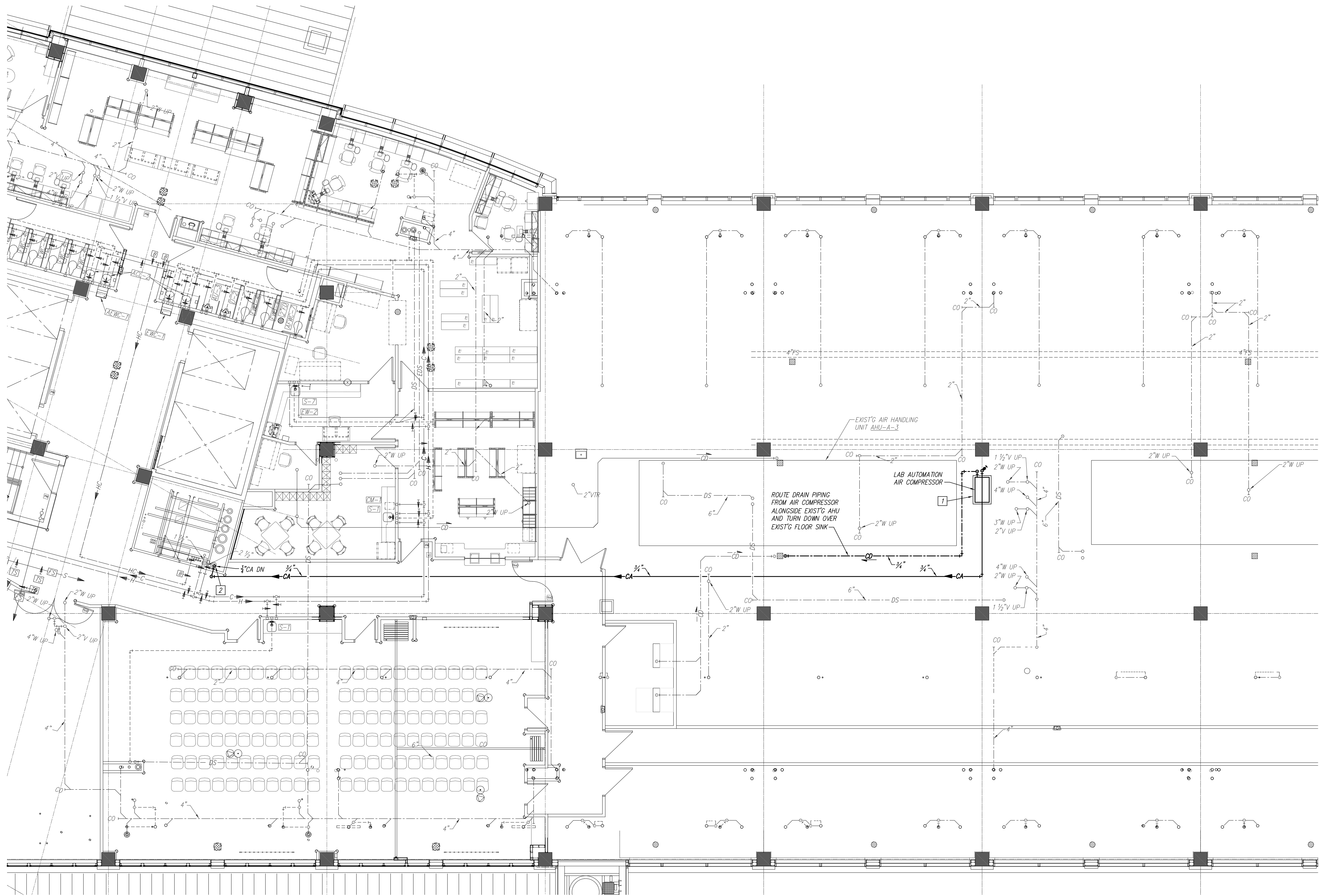
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PLUMBING AND ELECTRICAL
THIRD FLOOR PLANS



THIRD FLOOR ELECTRICAL PLAN

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

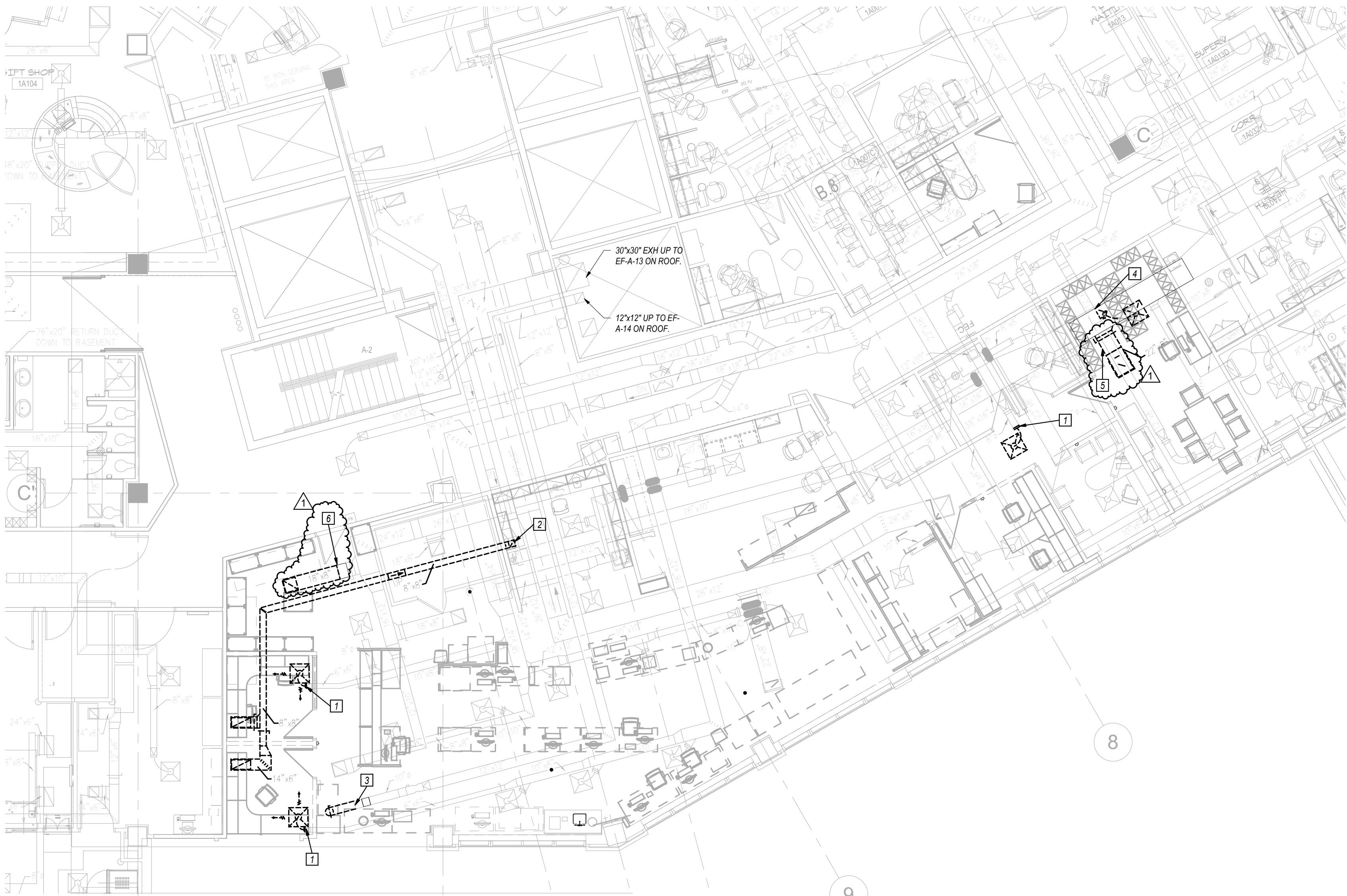


THIRD FLOOR PLUMBING PLAN

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

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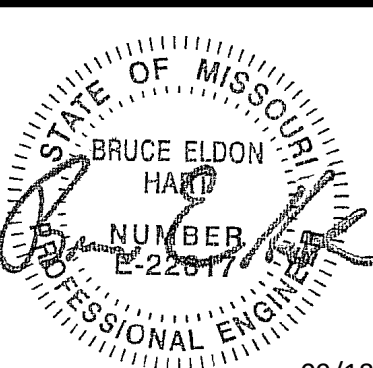
1 FIRST FLOOR MECHANICAL DEMOLITION PLAN
1/8" = 1'-0"

GENERAL NOTES

- 1 REFER TO GENERAL NOTES ON SHEET PM000.
- 2 PRIOR TO PERFORMING DEMOLITION, TAKE AIRFLOW READINGS AT THE FOLLOWING LOCATIONS AND SUBMIT THOSE READINGS IN A WRITTEN REPORT TO THE ENGINEER:
 - *FAN SOURCE READINGS AT THE AHU-A-3 SUPPLY FAN, DUCT TRAVERSE OF THE MEDIUM PRESSURE SUPPLY AIR MAIN DUCT, OUTSIDE AIR DUCT, AND RELIEF AIR DUCT. ALSO PROVIDE TOTAL UNIT STATIC PRESSURE, STATIC PRESSURE ACROSS EACH AHU SECTION/COMPONENT, FAN SPEED, MOTOR NAMEPLATE DATA, VFD FREQUENCY, MOTOR AMP READINGS, AND A DIAGRAM OF AHU & DUCTWORK SHOWING WHERE READINGS WERE TAKEN.
 - *FAN SOURCE READINGS AT THE ASSOCIATED RETURN FAN, DUCT TRAVERSE FOR THE RETURN AIR MAIN DUCT. ALSO PROVIDE STATIC PRESSURE, FAN SPEED, MOTOR NAMEPLATE DATA, VFD FREQUENCY, AND MOTOR AMP READING.
 - *FAN SOURCE READINGS AT THE EF-A-13 GENERAL LABORATORY EXHAUST FAN (LOCATED ON HIGH ROOF, BETWEEN THE ELEVATORS). PROVIDE FAN NAMEPLATE DATA & SERIAL NUMBER, AIRFLOW RATE, STATIC PRESSURE, FAN SPEED, MOTOR NAMEPLATE DATA, VFD FREQUENCY (IF APPLICABLE), AND MOTOR AMP READING.
 - *FAN SOURCE READINGS AT THE EF-A-14 BIOSAFETY CABINET EXHAUST FAN (LOCATED ON HIGH ROOF, BETWEEN THE ELEVATORS). PROVIDE FAN NAMEPLATE DATA & SERIAL NUMBER, AIRFLOW RATE, STATIC PRESSURE, FAN SPEED, MOTOR NAMEPLATE DATA, VFD FREQUENCY (IF APPLICABLE), AND MOTOR AMP READING.
 - *GRILLE, REGISTER, AND DIFFUSER (GRD) READINGS AT ALL EXISTING GRDS SERVING THE ENTIRE LABORATORY AREA, INCLUDING THE OPEN LAB AREA, ASSOCIATED OFFICES, BLOOD BANK AREAS, RECEPTION/DRAW, BREAK ROOM, AND TOILET ROOM. TAKE READINGS AT ALL EXISTING GRDS, WHETHER THEY ARE SHOWN ON THESE PLANS OR NOT.
 - *BIOSAFETY CABINET (BSC) EXHAUST AIRFLOW READING, FROM THE EXISTING BSC IN THE LAB AREA.
- 3 THIS PLAN SHOWS GENERAL INTENT OF DEMOLITION WORK. CONTRACTOR SHALL COORDINATE DEMOLITION WITH OWNER. THIS IS A 24 HOUR OPERATING FACILITY, SO SOME WORK MAY NEED TO BE COMPLETED AFTER NORMAL WORKING HOURS OR ON WEEKENDS AT NO EXTRA COST TO OWNER. SYSTEM SHUT DOWNS SHALL BE COORDINATED AND SCHEDULED WITH OWNER.
- 4 WORK SHOWN LIGHTLY IS EXISTING TO REMAIN. WORK SHOWN DASHED BOLD IS WORK TO BE REMOVED.
- 5 CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO DEMOLITION.
- 6 NOT ALL DEMOLITION WORK MAY BE SHOWN. CONTRACTOR SHALL DISCONNECT AND REMOVE ALL ITEMS NOT REQUIRED TO REMAIN.
- 7 DUE TO CONTINUED OPERATION OF EXISTING FACILITY, DEMOLITION MAY HAVE TO BE COMPLETED IN PHASES. COORDINATE PHASING OF WORK WITH OWNER.
- 8 MOST DIFFUSERS AND GRILLES IN PROJECT AREA ARE SHOWN LIGHTLY AS EXISTING TO REMAIN. HOWEVER, WHERE REQUIRED FOR GENERAL CONSTRUCTION OR OTHER WORK ABOVE CEILINGS, CONTRACTOR SHALL TEMPORARILY DISCONNECT DIFFUSERS/GRILLES AND/OR COVER OPENINGS, THEN CLEAN AND RE-INSTALL IN CEILING GRIDS PRIOR TO OCCUPANCY. PROVIDE NEW FLEXIBLE DUCTS AS REQUIRED.

KEYED NOTES

- 1 DISCONNECT AND REMOVE FLEX DUCT SERVING SUPPLY DIFFUSER. CLEAN DIFFUSER AND RE-LOCATE AS INDICATED ON SHEET M2.1. PROTECT REMAINING DUCT FOR NEW CONNECTION. RE: SHEET M2.1.
- 2 DISCONNECT RETURN AIR BRANCH DUCT AND CAP MAIN DUCT AIR TIGHT. DISCONNECT EXHAUST DUCT AND REMOVE UPSTREAM DUCTWORK FROM BIOSAFETY CABINET (BSC). PROTECT THE SHEET METAL TRANSITION BELOW THE CEILING FOR RE-LOCATION AND RE-USE AT NEW LOCATION OF BSC. PROTECT REMAINING DUCTWORK FOR NEW CONNECTION. RE: SHEET M2.1.
- 3 DISCONNECT AND REMOVE SUPPLY DIFFUSER AND CAP ASSOCIATED SUPPLY AIR. DISCONNECT AND REMOVE RETURN AIR DUCT AND GRILLE AS INDICATED. PATCH MAIN DUCT AS REQ'D TO PREPARE FOR NEW CONNECTIONS. RE: SHEET M2.1.
- 4 CUT AND REMOVE EXHAUST DUCT BUT PROTECT THE ASSOCIATED GRILLE. CLEAN THE GRILLE AND RE-LOCATE IT AS REQ'D TO KEEP IT OUT OF THE TEMPORARY BREAK ROOM AREA. RE: ARCHITECTURAL PHASING PLAN SHEET AP2.1 AND SHEET M2.1.



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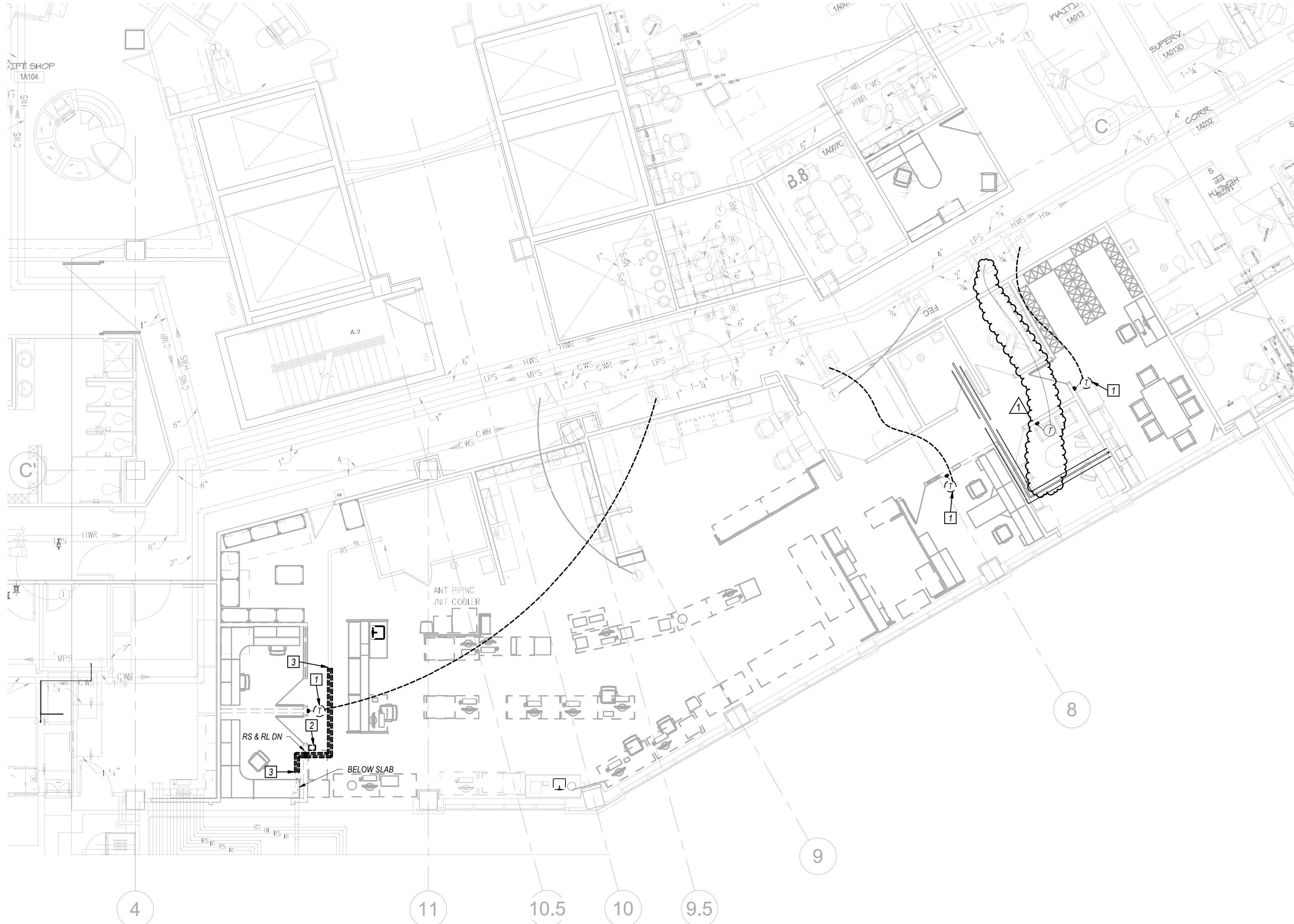
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MECHANICAL FIRST FLOOR
DEMOLITION PLAN



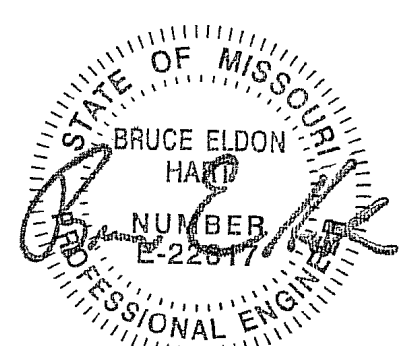
MECHANICAL PIPING FIRST FLOOR DEMOLITION
1 PLAN
1/8" = 1'-0"

GENERAL NOTES

- 1 SEE SHEET PM000 FOR GENERAL NOTES AND SYMBOLS LISTS.
- 2 THIS PLAN SHOWS GENERAL INTENT OF DEMOLITION WORK. CONTRACTOR SHALL COORDINATE DEMOLITION WITH OWNER. THIS IS A 24-HOUR FACILITY. THEREFORE, WORK MAY NEED TO BE COMPLETED AFTER NORMAL WORKING HOURS OR DURING WEEKENDS AT NO EXTRA COST TO THE OWNER. ALL SHUTDOWNS SHALL BE COORDINATED AND SCHEDULED WITH OWNER A MINIMUM OF TWO WEEKS BEFORE BEGINNING WORK.
- 3 WORK SHOWN LIGHTLY IS EXISTING TO REMAIN. WORK SHOWN DASHED BOLD IS WORK TO BE REMOVED.
- 4 CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO DEMOLITION.
- 5 NOT ALL DEMOLITION WORK MAY BE SHOWN. CONTRACTOR SHALL DISCONNECT AND REMOVE ALL ITEMS NOT REQUIRED TO REMAIN.

KEYED NOTES 0

- 1 DISCONNECT THERMOSTAT AND RELOCATE AS INDICATED ON SHEET MP2.1. REMOVE ANY CONTROL WIRING THAT CANNOT BE RE-USED.
- 2 DISCONNECT FUME HOOD MONITOR FOR BIOLOGICAL SAFETY CABINET AND RELOCATE AS INDICATED ON SHEET MP2.1. REMOVE ANY CONTROL WIRING THAT CANNOT BE RE-USED.
- 3 CUT REFRIGERANT PIPING THAT SERVES LAB COOLER AND REMOVE VERTICAL RISERS IN WALL AND A PORTION OF HORIZONTAL PIPING BOTH ABOVE CEILING AND BELOW SLAB. PATCH SLAB AS SPECIFIED. PROTECT REMAINING PIPING FOR NEW CONNECTIONS. RE: SHEET MP2.1.



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DMP2.1

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MECHANICAL PIPING FIRST FLOOR
DEMOLITION PLAN

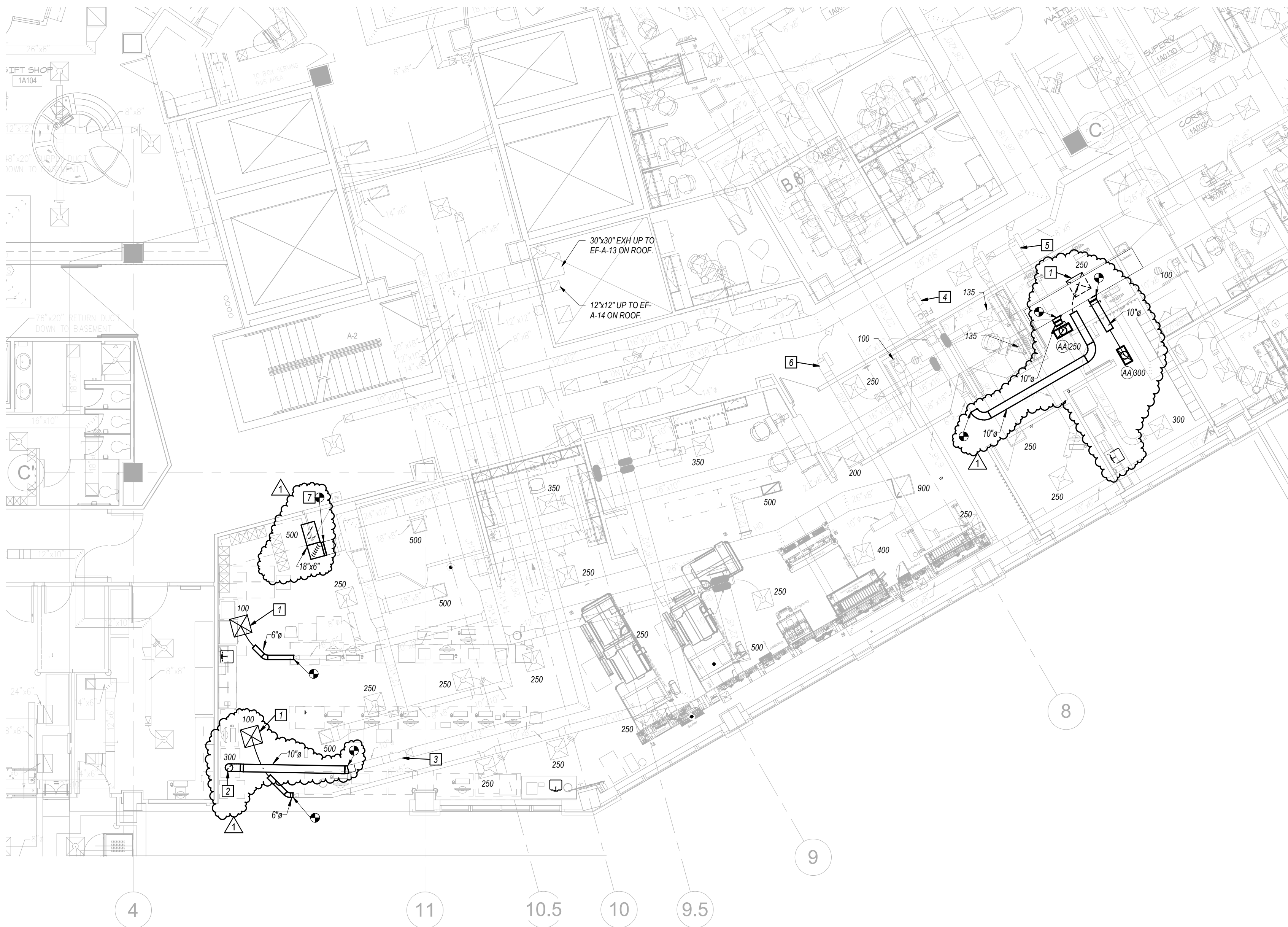
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8 UPGRADE THE EXISTING BUILDING MANAGEMENT SYSTEM (BMS) WITH NEW GRAPHICS TO SHOW THE NEW FLOOR PLAN AND NEW THERMOSTAT LOCATIONS.

1. NEW LOCATION FOR DIFFUSER THAT WAS DISCONNECTED DURING DEMOLITION. BALANCE TO AIRFLOW RATE (CFM) INDICATED.
2. TURN 1/4 INCH. RIGID EXHAUST DUCT DOWN THRU CEILING AND RE-INSTALL. THIS EXHAUST TRANSITION IS REQUIRED TO MAINTAIN EXHAUST DURING DEMOLITION. SEVERE THE LOGICATED BIOLOGICAL SAFETY CABINET(BSC). INSTALL THE TRANSITION DIRECTLY ABOVE THE TOP OUTLET OF THE BSC. WITH AS SMALL AN AREA AS POSSIBLE. AIR FLOW RATE (CFM) INDICATED.
3. ADJUST EXISTING EXHAUST AIR VALVE TO AIRFLOW RATE AS REQUIRED FOR THE EXISTG BSC (300 CFM AS REQUIRED BY BSC MANUFACTURER).
4. EXISTG EXIST SINGLE DUCT BOX TO NEW MAX. AIRFLOW RATE OF 335 CFM. EXISTG EXIST SINGLE DUCT BOX TO NEW MAX. AIRFLOW RATE OF 300 CFM.
5. EXISTG EXIST SINGLE DUCT BOX TO NEW MAX. AIRFLOW RATE OF 300 CFM.
6. EXISTG EXIST SINGLE DUCT BOX TO NEW MAX. AIRFLOW RATE OF 300 CFM. CONNECT TO EXISTG EXHAUST DUCT AND RE-INSTALL GRILLE THAT WAS DISCONNECTED DURING DEMOLITION. ENSURE THE NEW LOCATION IS OUTSIDE OF THE TEMPORARY BREAK ROOM AREA. SEE ARCHITECTURAL PHASING PLAN SHEET A2P.2.

DIFFUSER AND GRILLE SCHEDULE									
PLAN MARK	SERVICE	MANUFACTURER	MODEL	STYLE	FACE SIZE (IN.)	NECK SIZE (IN.)	BORDER TYPE	FINISH	REMARKS
AA	RETURN	TITUS	Z3RL	LOWVERED FACE 45 DEGREE DEFLECTION	24x12	22x10	LAY-IN	COLOR AS DIRECTED BY ARCHITECT	



1 MECHANICAL FIRST FLOOR PLAN



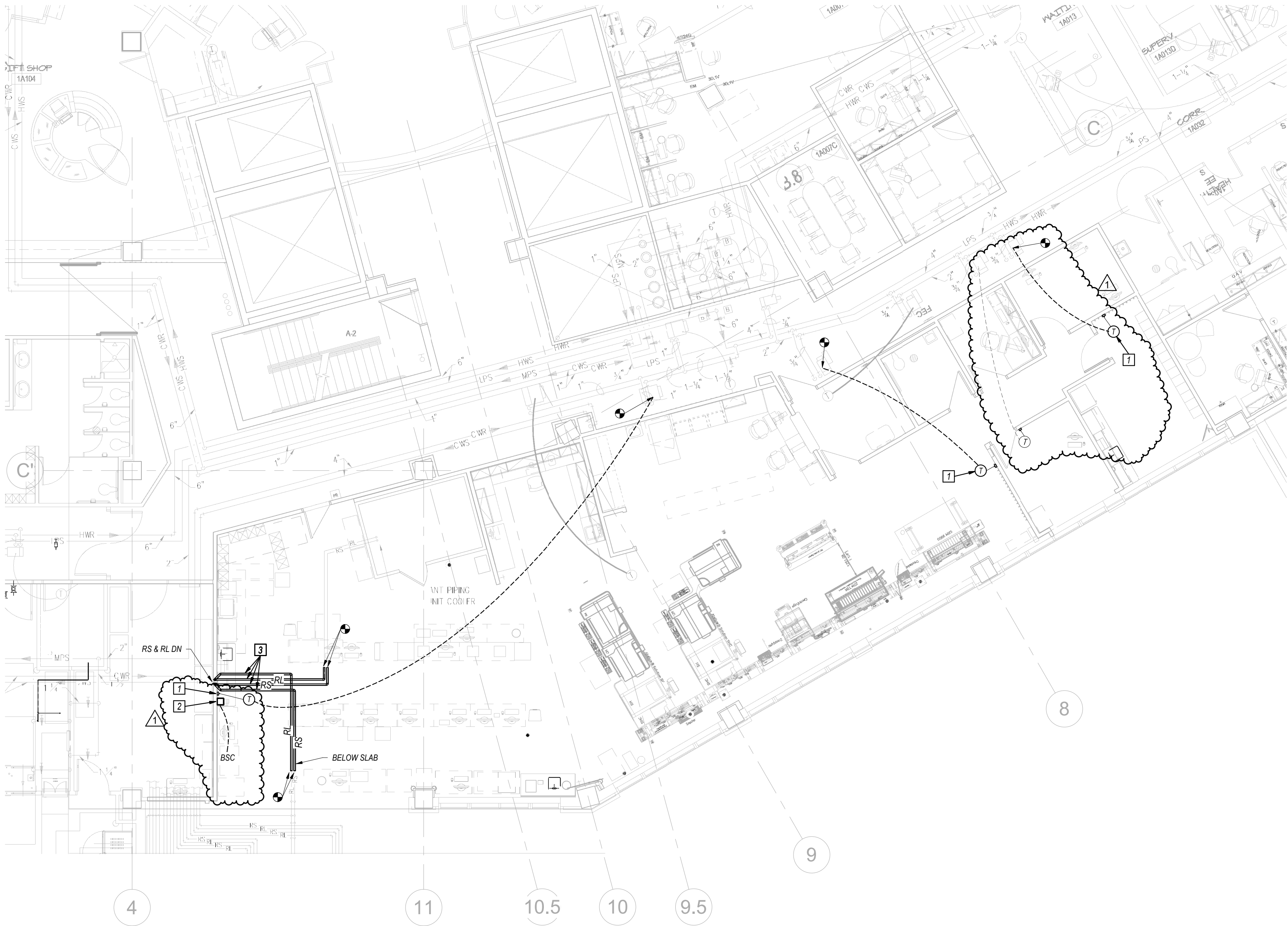
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1	10.12.20	ADDENDUM #

M2.1

MECHANICAL FIRST FLOOR PLAN
AND SCHEDULE



1 FIRST FLOOR MECHANICAL PIPING PLAN
1/8" = 1'-0"



GENERAL NOTES

- 1 SEE SHEET PM000 FOR GENERAL NOTES AND SYMBOLS LISTS.
- 2 WORK SHOWN LIGHTLY IS EXISTING TO REMAIN. ALL NEW WORK SHOWN BOLD AND DARK.
- 3 THIS IS A 24-HOUR FACILITY. THEREFORE, WORK MAY NEED TO BE COMPLETED AFTER NORMAL WORKING HOURS OR DURING WEEKENDS AT NO EXTRA COST TO THE OWNER. ALL SHUTDOWNS SHALL BE COORDINATED AND SCHEDULED WITH OWNER A MINIMUM OF TWO WEEKS BEFORE BEGINNING WORK.
- 4 FIELD VERIFY ALL EXISTING PIPE SIZES AND LOCATIONS PRIOR TO STARTING WORK.
- 5 CAREFULLY COORDINATE NEW WORK WITH EXISTING FIELD CONDITIONS AND OTHER TRADES.
- 6 BEFORE CORE DRILLING ANY HOLES, LOCATE REBAR IN THE SLAB BY X-RAY OR WITH RAJETER. IF REBAR IS ENCOUNTERED WITHIN THE PROPOSED LOCATION OF THE HOLE, THEN EITHER RELOCATE THE HOLE TO MISS REBAR OR IF THE HOLE CANNOT BE RELOCATED, CONTACT STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO CORING OR DRILLING. DO NOT CORE ANY HOLES THROUGH THE BEAM WITHOUT APPROVAL OF STRUCTURAL ENGINEER.

KEYED NOTES

- 1 NEW LOCATION FOR THERMOSTAT THAT WAS DISCONNECTED DURING DEMOLITION. COORDINATE EXACT LOCATION WITH ARCHITECT. PROVIDE AND INSTALL NEW CONTROL WIRING AS REQUIRED. TEST DEVICE FOR ACCURACY AND CALIBRATE OR REPLACE AS REQUIRED.
- 2 NEW LOCATION FOR FUME HOOD MONITOR THAT WAS DISCONNECTED DURING DEMOLITION. COORDINATE EXACT LOCATION WITH ARCHITECT. PROVIDE AND INSTALL NEW CONTROL WIRING AS REQUIRED. TEST DEVICE FOR PROPER OPERATION AND REPAIR OR REPLACE AS REQUIRED. DEVICE SHALL SIGNAL A LOCAL ALARM UPON LOSS OF EXHAUST AIRFLOW AT NEARBY BIOLOGICAL SAFETY CABINET (BSC).
- 3 SIZE NEW REFRIGERANT PIPING PER EQUIPMENT MANUFACTURER RECOMMENDATIONS. INSULATE PIPING USING 1/2" THICK FLEXIBLE ELASTOMERIC PIPE INSULATION WITH VAPOR BARRIER. CHARGE REFRIGERATION SYSTEM WITH NEW REFRIGERANT AS REQUIRED.

STATE OF MISSOURI
BRUCE ELDON
HART
NUMBER
PROFESSIONAL ENGINEER

09/18/2020

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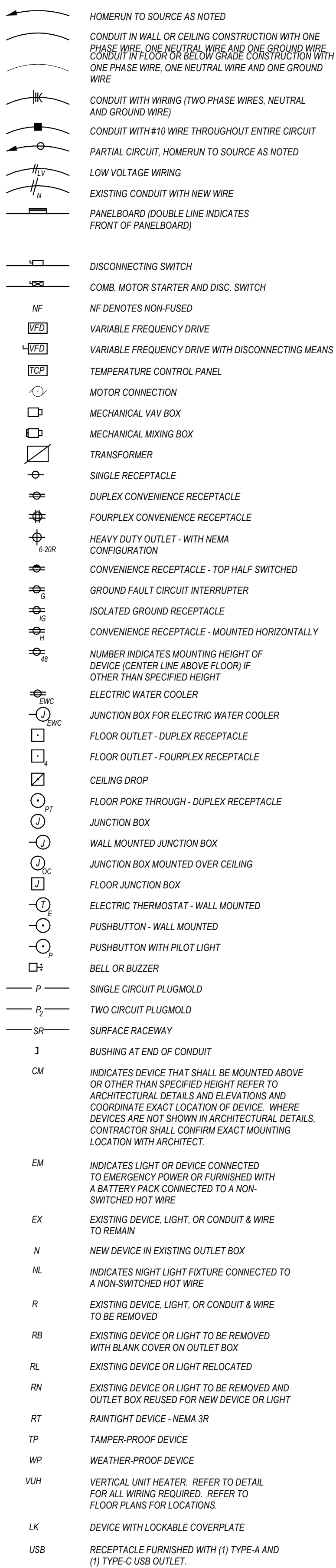
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MECHANICAL PIPING FIRST FLOOR
PLAN

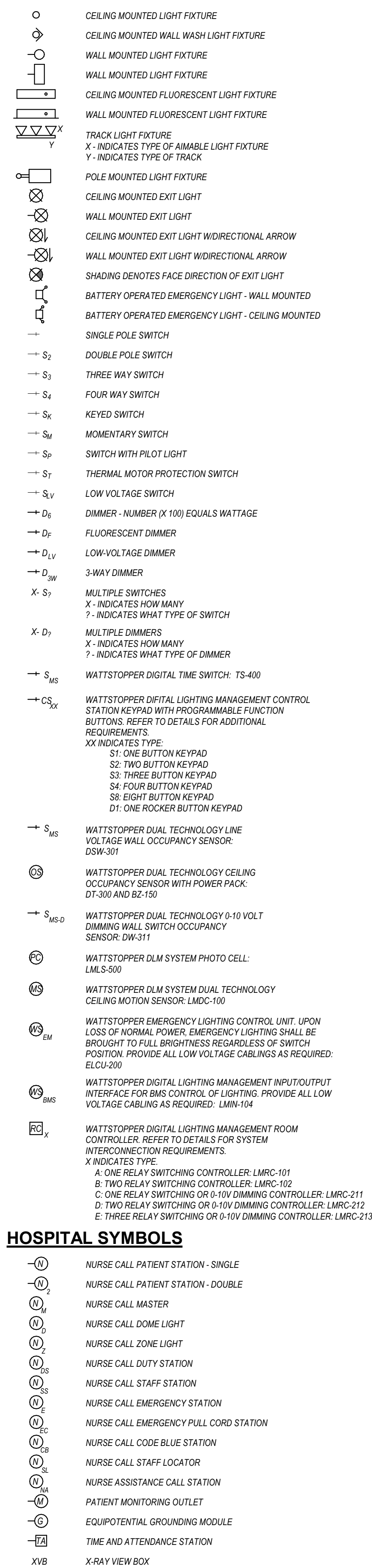
ELECTRICAL SYMBOLS LIST

(ALL MAY NOT APPLY)

POWER SYMBOLS

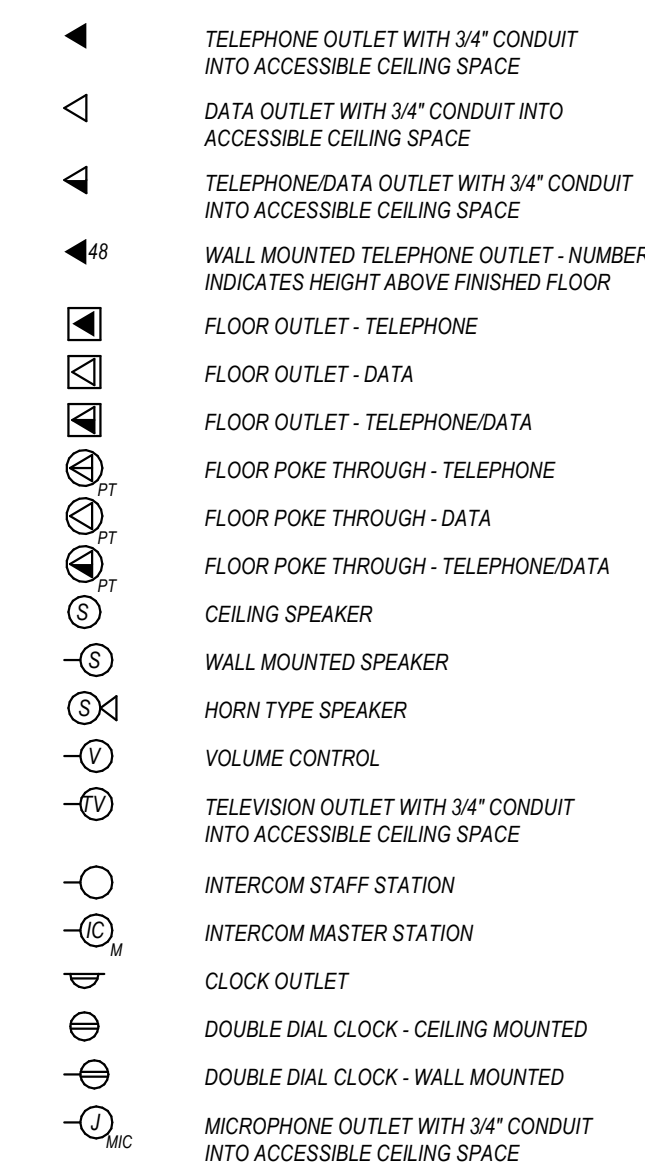


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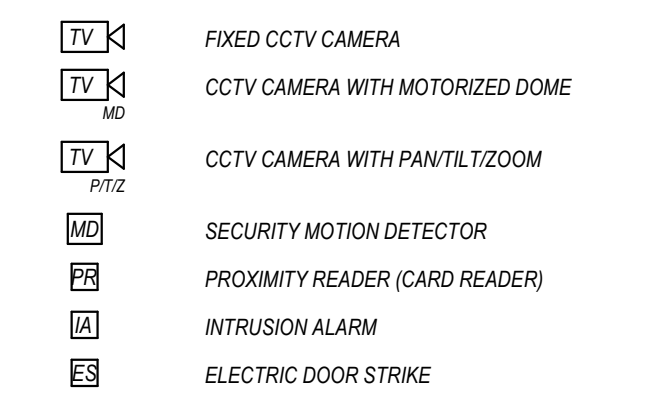


HOSPITAL SYMBOLS

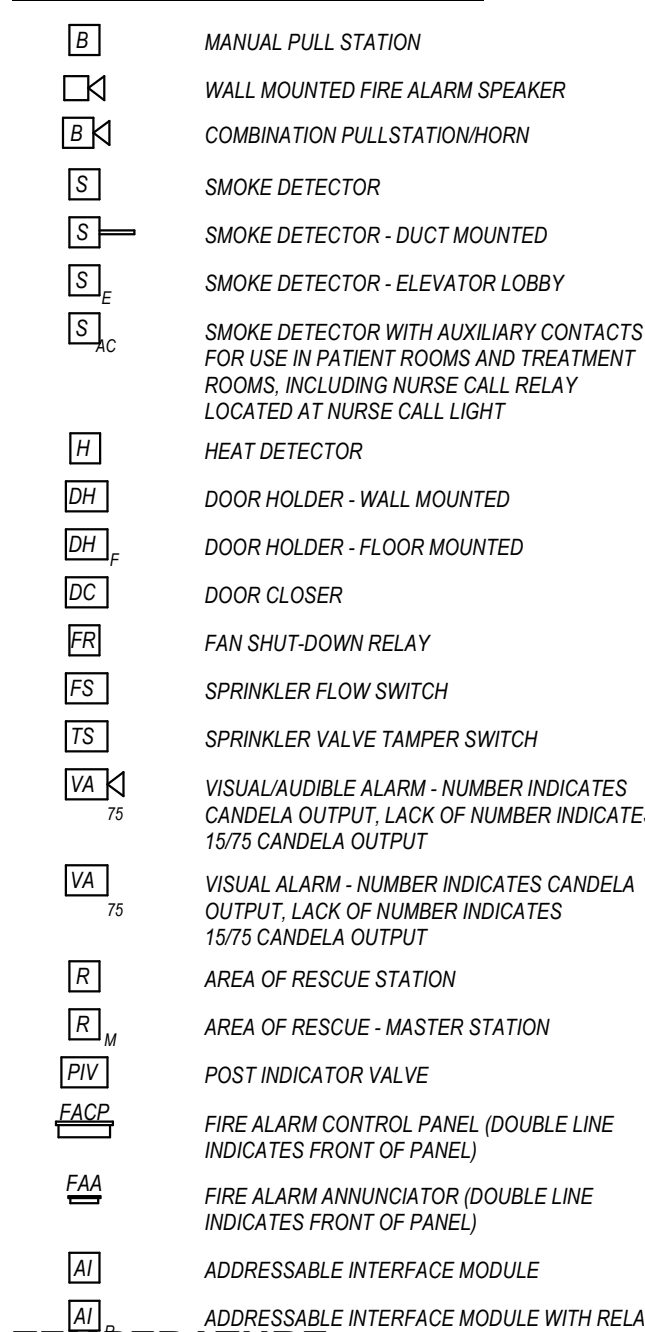
COMMUNICATION SYMBOLS



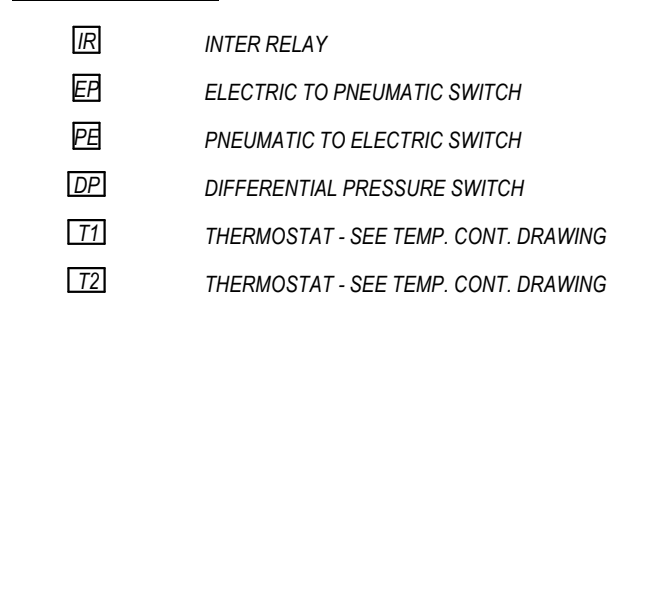
SECURITY SYMBOLS



FIRE ALARM SYMBOLS



**TEMPERATURE
CONTROLS
SYMBOLS**



ELECTRICAL ABBREVIATIONS

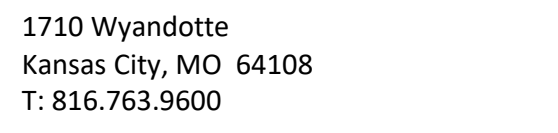
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
A	AMPERES (AMPS)	LTG	LIGHTING
AFB	ABOVE FINISHED FLOOR	MCB	MAIN CIRCUIT BREAKER
AFS	ABOVE FINISHED GRADE	MCH	MECHANICAL
AG	ABOVE GRADE	MERC (MV)	MERCURY VAPOR
AIC	AMPS INTERRUPTING CURRENT	MP	METAL HULST
APPROX	APPROXIMATE	MSC	MISCELLANEOUS
ARC	ARCING	MLO	MAN LUGS ONLY
ATS	AUTOMATIC TRANSFER SWITCH	MTD	MOUNTED
		MTG	MOUNTING
BLDG	BUILDINGS	MV	MEDIUM VOLTAGE
		N	NEUTRAL
C	CONDUIT	NCL	NORMALLY CLOSED
CB	CIRCUIT BREAKER	NEC	NATIONAL ELECTRICAL CODE
CCT	CIRCUIT	NEMA	NAT'L ELEC. MFR ASSOCIATION
CL	CEILING LINE	NF	NOT FUSED
CLS	CLERK	NIC	NOT IN CONTRACT
CM	COORDINATE MOUNTING	NIL	NIGHT LIGHT (NOT SWITCHED LIGHT)
CO	CONDUIT ONLY	NIO	NORMALLY OPEN
CT	CURRENT TRANSFORMER	N	NUMBER
CJ	COPPER	NTS	NOT TO SCALE
		PB	PULL BOX
DISC	DISCONNECT	PF	POWER FACTOR
DIPST	DISTRIBUTION PANEL	PH	PHASE
DPSBT	DOUBLE POLE DOUBLE THROW	PNL	PANEL, PANELBOARD
DPSBT	DOUBLE POLE SINGLE THROW	PRI	PRIMARY
DWG	DRAWING	PVC	POLYVINYL CHLORIDE CONDUIT
		PWR	POWER
EM	INDIC. LIGHT OR DEVICE IS ON EMERG. POWER	RGS	RIGID GALVANIZED STEEL CONDUIT
ENT	ELECTRICAL METALLIC TUBING		
EQUIP	EQUIPMENT		
ETR	EXISTING TO REMAIN		
		SEC	SECONDARY
F	FUSED	SPEC	SPECIFICATION
FC	FOOTCANDLE	SS	SINGLE POLE SINGLE THROW
FDR	FLOOR	STD	STANDARD
FLA	FLU. LOAD AMPS	STRK	STREAKER
FLR	FLOOR	SW	SWITCH
FLUOR	FLUORESCENT	SWBD	SWITCH BOARD
FT	FOOT, FEET	SWGR, SG	SWITCH GEAR
		TELE	TELEPHONE
G, GFI, GFCI	GROUND FAULT CIRCUIT INTERRUPTER	TEMP	TEMPERATURE
GFCI	GROUNDING ELECTRIC CONDUCTOR	TSTAT	THERMOSTAT
GND	GROUND	TV	TELEVISION
		Typ	TYPICAL
H	HIGH INTENSITY DISCHARGE	UG	UNDERGROUND
HZ	HAZARDOUS MATERIAL CONTAINER	UL	UNDERWRITERS LABORATORY
HPS	HIGH PRESSURE SODIUM	UN	UNLESS OTHERWISE NOTED
HZ	HERTZ	UNINT	UNINTERRUPTABLE POWER SUPPLY
		V	VOLTS
IG	ISOLATED GROUND	VV	VOLT/TEMPERES
IN	INCHES	WFD	VARIABLE FREQUENCY DRIVE
INC	INCANDESCENT	W	WATTS (OR WIRE)
ISC (AIC)	SHORT CIRCUIT CURRENT	WTH	WITH
		WO	WITHOUT
		WTR	WEATHERPROOF
		WT	WATERIGHT
J, JB	JUNCTION BOX		
KV	KILOVOLTS		
KV	KILOVOLTS		
KVA	KILOVOLT-AMPS		
KW	KILOWATTS		
KWH	KILOWATT HOURS		
		XFMR	TRANSFORMER

GENERAL NOTES

(THESE NOTES APPLY TO ALL ELECTRICAL SHEETS)

1. A MAXIMUM OF SIX(6) CURRENT - CARRYING WIRES SHALL BE INSTALLED IN ANY SINGLE CONDUIT. ALL EXISTING CONDUITS AND MOTOR CIRCUITS SHALL BE INSTALLED WITH A DESIGNATED NEUTRAL WIRE.
2. COORDINATE ALL WORK WITH OTHER TRADES. OFFSET PANELS, LUGS, AND OTHER DEVICES SHALL BE COORDINATED WITH ALL OTHER TRADES TO PREVENT CONFLICTS FROM ARCHITECT PROJECT TO OFFENDING ANY DEVICE OR EQUIPMENT.
3. CONTRACTOR SHALL COORDINATE ALL SHUT DOWNS WITH OWNER. NO SHUT DOWNS SHALL BE PERFORMED WITHOUT RECEIVING PRIOR APPROVAL FROM OWNER.
4. COORDINATE WITH ALL OTHER TRADES AND DISCONNECT OR REMOVE ELECTRICAL EQUIPMENT, LIGHTS, ETC., THAT ARE NOT REQUIRED TO REMAIN FOR THE PROJECT. CONTRACTORS. REFER TO CALL PLANS FOR SITE DEMOLITION THAT MAY NOT BE SHOWN ON ELECTRICAL SHEETS.
5. CONTRACTOR SHALL COORDINATE ALL PRIMARY VOLTAGE UTILITY WORK WITH OWNER AND ELECTRICAL UTILITY.
6. NO CURRENT OR DEVICES IN FINISHED AREAS SHALL BE SUBJECT MOUNTED.
7. CONTRACTOR SHALL REPAIR ALL DAMAGE TO FINISHED AREAS IF DAMAGES ARE REQUIRED. WHERE WALL, TRENCHING IS REQUIRED, SAME SHALL BE APPROVED BY ARCHITECT.
8. CONTRACTOR SHALL GAIN APPROVAL FROM ARCHITECT PRIOR TO INSTALLING ANY SURFACE MOUNTED DEVICES.
9. WHERE FLOOR TRENCHING IS REQUIRED, THE CONTRACTOR SHALL TREND TO THE MINIMUM REQUIRED DEPTH TO ACCOMMODATE THE DEPTH OF THE DEVICES. SURFACES. COORDINATE WITH ARCHITECT FOR ANY TRENCHING REQUIRED.
10. ALL LOW VOLTAGE CABLING SHALL BE PLENUM RATED. THIS IS NOT LIMITED TO TRENCHING, BUT INCLUDE ALL CABLING.
11. CONTRACTOR SHALL LABEL AND UPDATE SCHEDULES IN ALL EXISTING TO REMAIN PANELBOARDS AT THE COMPLETION OF THE PROJECT.
12. ALL EXISTING DEVICES REMOVED DURING DEMOLITION SHALL BE REFLECTED ON ALL EXISTING DRAWINGS WITH THE CORRECTED INFORMATION.
13. AFTER COMPLETION OF NEW WORK, REMOVE ALL TEMPORARY EQUIPMENT, CONDUIT, AND WIRING NOT REQUIRED BY EXISTING CONDITIONS PRIOR TO BEGINNING NEW WORK.
14. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING NEW WORK.
15. ALL EXISTING ITEMS REMOVED DURING DEMOLITION SHALL BE TURNED OVER TO THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MOVING THE ITEMS TO A LOCATION AS DESIGNATED BY THE ARCHITECT. ITEMS NOT REQUIRED TO BE KEPT BY THE OWNER SHALL BE DISPOSED OF BY THE CONTRACTOR.
16. ALL EXISTING DEVICES REMOVED DURING DEMOLITION SHALL BE REFLECTED ON ALL EXISTING DRAWINGS WITH THE CORRECTED INFORMATION.
17. ELECTRICAL SERVICE SHALL BE GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
18. ALL CONDUITS SHALL BE REPAIRED AS HIGH AND AS TIGHT AS POSSIBLE TO THE STATUS OF THE ORIGINAL. SUPPORTING THE FLOOR ABOVE WHERE INSTALLATION OCCURS. COORDINATE WITH OTHER TRADES AS REQUIRED.
19. COORDINATE THE ROUTING OF ALL CONDUITS WITH OTHER TRADES. MAKE SURE ALL CONDUITS ARE PROTECTED FROM DAMAGE. ALL HULL BOLLS ARE REQUIRED. ROUTING SHOWN ON PLANS IS DIAGRAMATIC.
20. CONTRACTOR SHALL REDUCUTE, REPLACE, OR REMOVE ANY CONDUIT, FITTINGS, AND EQUIPMENT EXISTING TO REMAIN TO ACCOMMODATE ANY NEW WORK.
21. MAINTAIN AND RESTORE POWER TO ALL EXISTING DEVICES BEING SERVED IN AREAS, AND ALL EXISTING DEVICES TO BE REMOVED AS EXISTING TO REMAIN.
22. ALL CURRENT FROM EXISTING TO REMAIN PANELBOARDS THAT HAVE THEIR ENTIRE LOAD REMOVED AND ARE NOT REQUIRED TO BE REUSED TO SERVE NEW LOADS SHALL BE REMOVED FROM WORK. ALL EXISTING DEVICES TO BE REMOVED AND WIRE REMOVED BACK TO THEIR PANELBOARD AND THEIR ASSOCIATED BREAKER SHALL BE LABELED AS A SPARE. CONDUIT THAT IS LOCATED IN THE FLOOR SLAB OR UNDER FLOOR FINISHES SHALL BE ABANDONED IN PLACE. HOWEVER, ALL CONDUCTORS SHALL BE REMOVED.
23. DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL DEVICES, LIGHT FIXTURES, AND EQUIPMENT. REMOVE ALL EXISTING CONDUIT AND EQUIPMENT. REMOVE ALL DEVICES SHOWN LIGHT ARE EXISTING TO REMAIN.
24. THE CONTRACTOR SHALL VERIFY THE OPERATION OF ALL DEVICES THAT ARE TO REMAIN. ALL DEVICES TO REMAIN SHALL BE TESTED TO BE PROPERLY OPERATING OR REPLACED AS REQUIRED. REPLACE ALL DAMAGED AND MISSING COVERS/IN AREAS OF NEW WORK AS REQUIRED.
25. REMOVE ALL EXISTING COMMUNICATION WIRING WITH OWNER. ALL ABANDONED COMMUNICATION CABLING SHALL BE REMOVED AS REQUIRED. COORDINATE WITH ARCHITECT WITH OWNER.
26. REMOVE ALL EXISTING DEVICES AND EQUIPMENT TO BE REMOVED MAY NOT BE SHOWN. HOWEVER, ALL ITEMS NOT REQUIRED TO REMAIN SHALL BE REMOVED.
27. THE CONTRACTOR SHALL MATCH THE RATINGS AND CHARACTERISTICS OF ALL EXISTING BREAKERS REMOVED TO THOSE OF THE EXISTING BREAKERS IN EXISTING PANELBOARDS.
28. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN AND ELEVATIONS FOR LOCATION OF LIGHT FIXTURES TO REMAIN.
29. ALL RECEPTACLES INSTALLED IN BATHROOMS OR WITHIN SIX FEET OF ANY SINK SHALL BE GFCI PROTECTED.
30. ALL ELECTRICAL CONNECTIONS ON THE SITE, EXTERIOR OF BUILDING, OR IN TUNNELS SHALL BE MADE USING WATERPROOF CONNECTORS.

Bruce E. Hart
Missouri #E-22817



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Licensee's Certificate of Authority Number:
Missouri: #000958

ELECTRICAL LIGHTING DEMOLITION

GENERAL NOTES

- 1 REFER TO SHEET E000 FOR GENERAL NOTES. NOT ALL GENERAL NOTES MAY APPLY TO THIS SHEET.
- 2 WORK SHOWN LIGHTLY IS EXISTING TO REMAIN. DISCONNECT, REMOVE, RELOCATE AND RECONNECT ALL FIXTURES SHOWN DARK AND DASHED ON DEMOLITION PLAN. DISCONNECT AND REMOVE ASSOCIATED SWITCHES, CONDUIT AND WIRING NO LONGER NECESSARY TO REMAIN.
- 3 THIS IS A 24 HOUR OPERATIONAL FACILITY THEREFORE SOME WORK MAY NEED TO OCCUR AFTER HOURS OR ON WEEKENDS AT NO EXTRA COST TO THE OWNER.



EAST HOSPITAL

100 NE ST LUKES BLVD, LEE'S SUMMIT, MO

64086

Date	09-18-2020
Job Number	3-20030
Drawn By	LLD
Checked By	BEH

Revision		
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1	10.12.20	ADD 01

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1 REFER TO SHEET E000 FOR GENERAL NOTES. NOT ALL GENERAL NOTES MAY APPLY TO THIS SHEET.

- ## KEYED NOTES



E

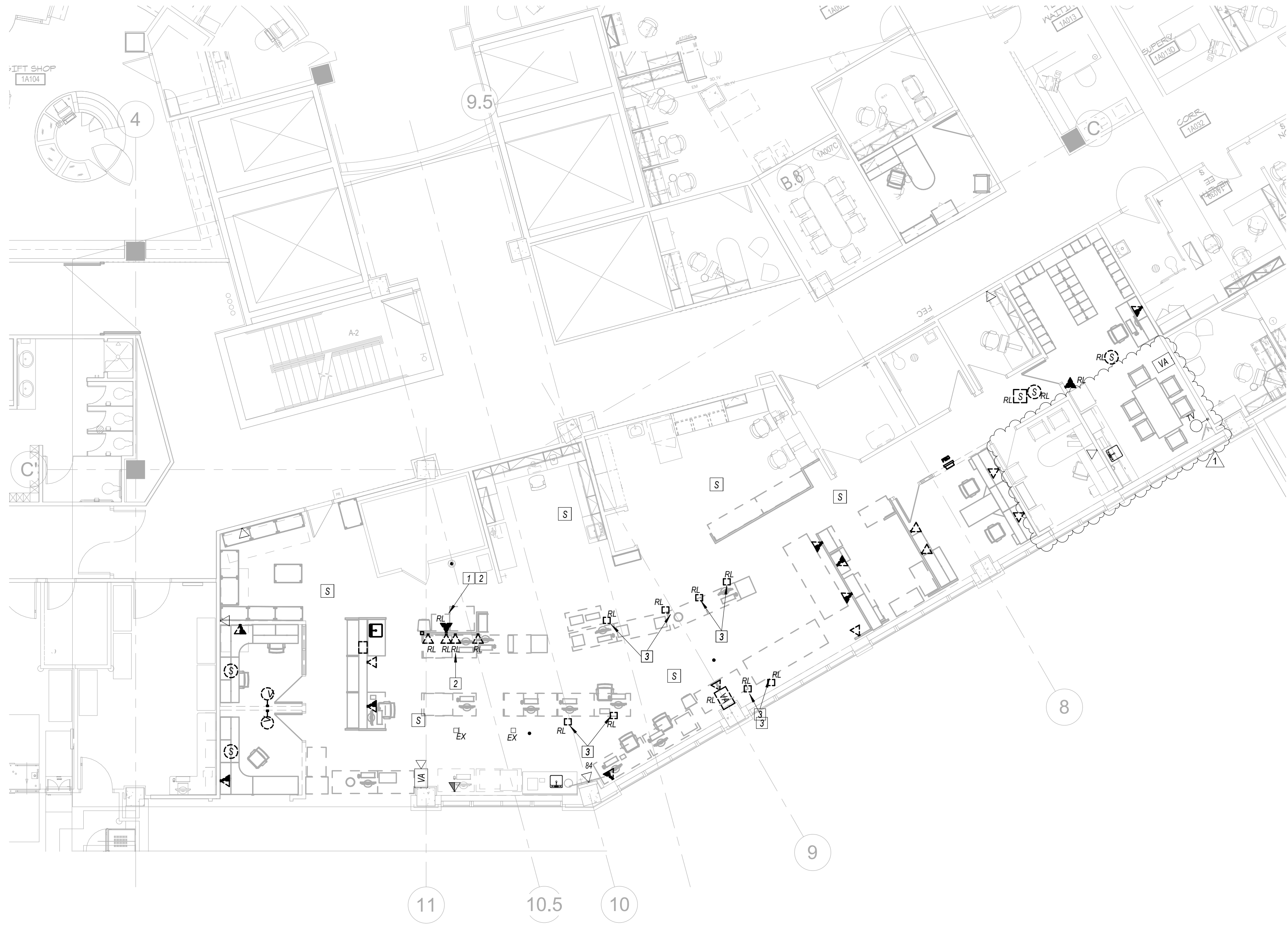
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1 FIRST FLOOR COMMUNICATIONS DEMOLITION PLAN
1/8" = 1'-0"



- ELECTRICAL COMMUNICATIONS DEMOLITION**
GENERAL NOTES
- REFER TO SHEET E000 FOR GENERAL NOTES. NOT ALL GENERAL NOTES MAY APPLY TO THIS SHEET.
 - WORK SHOWN LIGHTLY IS EXISTING TO REMAIN. ALL DEMOLITION WORK IS SHOWN DARK AND DASHED ON DEMOLITION PLAN.
 - NOT ALL EXISTING DEVICES ARE SHOWN. CONTRACTOR SHALL MAINTAIN SERVICE TO ALL DEVICES NOT BEING REMOVED AS PART OF THIS PROJECT.
 - THIS IS A 24 HOUR OPERATIONAL FACILITY THEREFORE SOME WORK MAY NEED TO OCCUR AFTER HOURS OR ON WEEKENDS AT NO EXTRA COST TO THE OWNER.

- KEYED NOTES** 0
- DISCONNECT AND RELOCATE SENSAPHONE ALARM, MONITORING BLOOD BANK FREEZER AND REFRIGERATOR. TO NEW FREEZER AND REFRIGERATOR LOCATION. REFER TO NEW WORK PLAN FOR RECONNECTION OF CIRCUITS.
 - DEVICES MOUNTED IN SYSTEM FURNITURE TO BE RELOCATED WITH FURNITURE. REFER TO NEW WORK PLAN FOR FURTHER INFORMATION.
 - DISCONNECT, REMOVE AND RELOCATE EXISTING COMMUNICATIONS POWER POLE WITH TWO(2) DATA CONNECTIONS.

STATE OF MISSOURI
BRUCE ELDON
HART
REGISTERED PROFESSIONAL ENGINEER
09/18/2020

Bruce E. Hart
Missouri #E-22817

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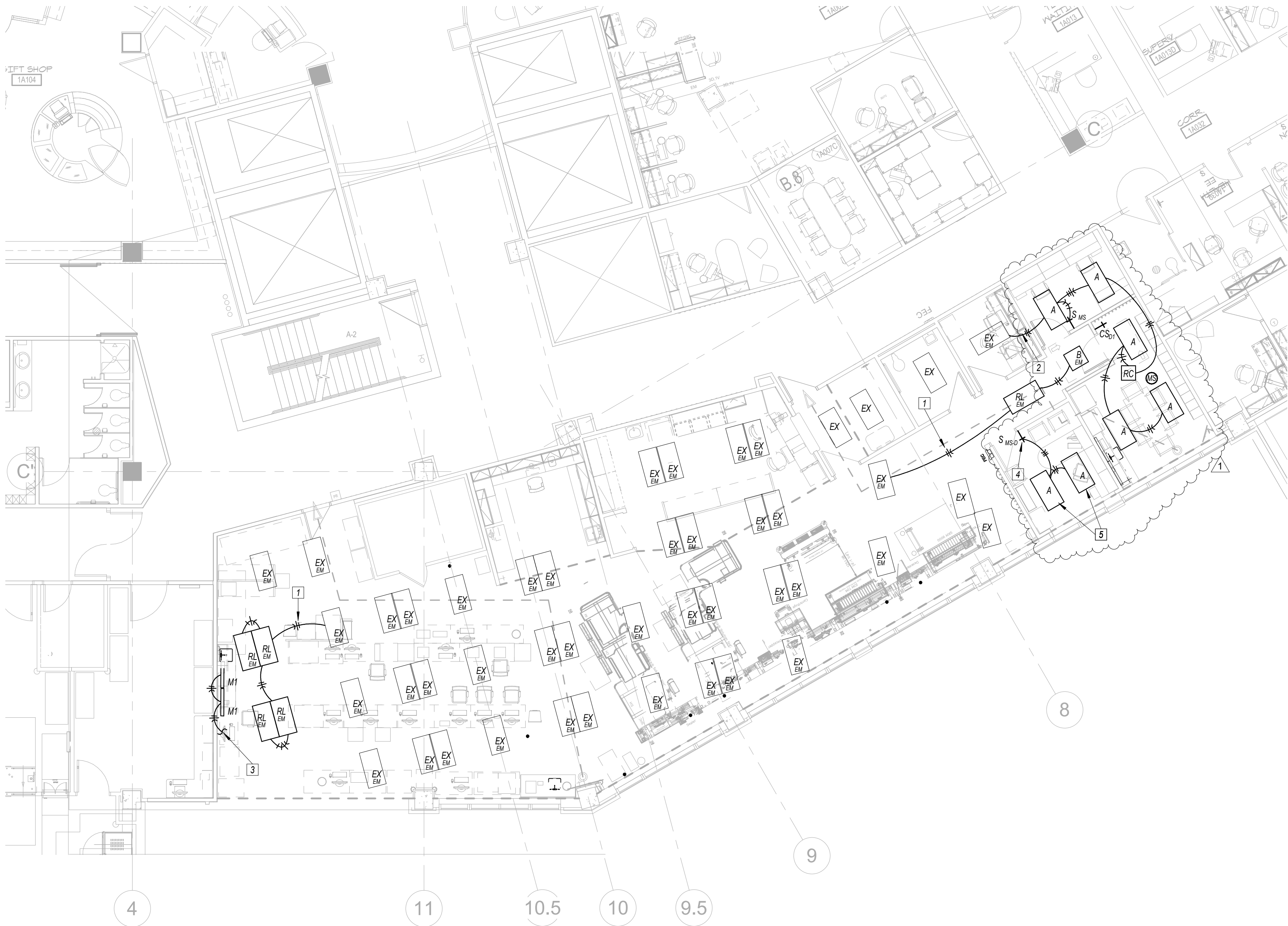
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Checked ByBEH

Revision
NumberDateDescription
110.12.20ADD 01

DEC2.1

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COMMUNICATIONS FIRST FLOOR
DEMOLITION PLAN



1 FIRST FLOOR LIGHTING PLAN
1/8" = 1'-0"



Lighting Fixture Schedule							
TYPE	MANUFACTURER/MODEL	FIXTURE DESCRIPTION	MOUNTING	DRIVER/BALLAST	LAMP	VOLTAGE	WATTS
A	WILLIAMS PT SERIES	2x4' DIRECT/INDIRECT TROFFER FOR LED SOURCE. LINEAR SMOOTH CURVED PRISMATIC LENS WITH SURFACE RELIEF DIFFUSER. FIXTURE STEEL PAINTED BAKED WHITE ENAMEL. 1-1/2" TELESCOPING HOUSING. DUL LISTED. FURNISH WITH ALL HARDWARE AS REQUIRED FOR MOUNTING TYPE.	CEILING RECESSED	INTEGRAL 1% 0-10V DIMMING DRIVER	INTEGRAL 3000K CCT, 4800 LUMENS DELIVERED, MIN 80 CRI LED	120-277V	37 W
B	WILLIAMS PT SERIES	2x2' TROFFER FIXTURE FOR LED SOURCE. 0.125" PRISMATIC ACRYLIC LENS, SPRING LOADED CAM ACTION LATCHED, FIXTURE STEEL DOOR WITH MITERED CORNERS. ALL FIXTURE STEEL POST PAINTED BAKED WHITE ENAMEL. FURNISH WITH ALL HARDWARE AS REQUIRED FOR MOUNTING.	RECESSED	INTEGRAL 1% 0-10V DIMMING DRIVER	INTEGRAL 3000K CCT, 2600 LUMENS DELIVERED, MIN 80 CRI LED	120-277V	21 W
M	WILLIAMS 1SF LED SERIES	3" UNDERCABINET FIXTURE WITH SOLID FRONT AND BOTTOM ACRYLIC LENS, DIFFUSER. INTEGRAL ROCKER SWITCH.	SURFACE	INTEGRAL LED DRIVER	INTEGRAL 3000K CCT, 1200 LUMENS DELIVERED, MIN 80 CRI LED	120V	24 W

ELECTRICAL LIGHTING GENERAL NOTES

- 1 REFER TO SHEET E000 FOR GENERAL NOTES. NOT ALL GENERAL NOTES MAY APPLY TO THIS SHEET.
- 2 WORK SHOWN LIGHTLY IS EXISTING TO REMAIN. DISCONNECT, REMOVE, RELOCATE AND RECONNECT ALL FIXTURES SHOWN DARK AND DASHED ON DEMOLITION PLAN. DISCONNECT AND REMOVE ASSOCIATED SWITCHES, CONDUIT AND WIRING NO LONGER NECESSARY TO REMAIN. ALL NEW WORK IS SHOWN DARK AND BOLD ON NEW WORK PLAN.
- 3 THIS IS A 24 HOUR OPERATIONAL FACILITY THEREFORE SOME WORK MAY NEED TO OCCUR AFTER HOURS OR ON WEEKENDS AT NO EXTRA COST TO THE OWNER.

KEYED NOTES

- 1 EXTEND AND CONNECT TO EXISTING EMERGENCY LIGHTING CIRCUIT.
- 2 EXTEND AND CONNECT TO EXISTING NON-SWITCHED LEG OF NORMAL POWER LIGHTING CIRCUIT.
- 3 EXTEND AND CONNECT TO COUNTERTOP RECEPTACLE CIRCUIT.
- 4 FURNISH AND INSTALL NEW SWITCH IN EXISTING BACKBOX AND CONNECT TO EXISTING CIRCUITING AS REQUIRED.
- 5 CONNECT NEW LIGHT FIXTURE TO EXISTING ROOM CIRCUIT.

STATE OF MISSOURI
BRUCE ELDON
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NUMBER
Professional Engineer

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Missouri #E-22817

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EAST HOSPITAL

LAB REMODEL

100 NE ST LUKES BLVD, LEE'S SUMMIT, MO
64086

Date	09-18-2020
Job Number	3-20030
Drawn By	LLD
Checked By	BEH

Revision		
Number	Date	Description
1	10.12.20	ADD 01



1 FIRST FLOOR POWER PLAN
1/8" = 1'-0"



2 EXISTING ELECTRICAL PANEL PLAN
1/16" = 1'-0"



ELECTRICAL POWER GENERAL NOTES

- 1 REFER TO SHEET E000 FOR GENERAL NOTES. NOT ALL GENERAL NOTES MAY APPLY TO THIS SHEET.
- 2 WORK SHOWN LIGHTLY IS EXISTING TO REMAIN. ALL NEW WORK IS SHOWN DARK AND BOLD.
- 3 IT IS THE INTENT TO REUSE EXISTING CIRCUITS TO THE EXTENT POSSIBLE. CIRCUIT NUMBERS ARE BASED UPON AS BUILT DRAWINGS AND SHOULD BE FIELD VERIFIED BY THE ELECTRICAL CONTRACTOR.
- 4 RELOCATED POWER POLES ARE TO BE FED OVERHEAD.
- 5 THIS IS A 24 HOUR OPERATIONAL FACILITY THEREFORE SOME WORK MAY NEED TO OCCUR AFTER HOURS OR ON WEEKENDS AT NO EXTRA COST TO THE OWNER.

KEYED NOTES

- 1 EXTEND AND CONNECT TO 20A, 1P CIRCUIT BREAKER(S) MADE AVAILABLE DURING DEMOLITION PORTION OF PROJECT.
- 2 RELOCATED THREE SECTION POWER POLE FOR ROUTING OF CIRCUITING AND DATA OF SYSTEM MOUNTED DEVICES.
- 3 RELOCATED SENSAPHONE MONITORING ALARM. MAKE ALL CONNECTIONS TO REFRIGERATOR AND FREEZER AS REQUIRED.
- 4 DROP CIRCUITING DOWN IN RELOCATED POWER POLE FOR CONNECTION TO DEVICES MOUNTED IN SYSTEM FURNITURE. EXTEND AND CONNECT TO EXISTING CIRCUIT BREAKER MADE SPARE DURING DEMOLITION PHASE OF PROJECT.
- 5 RELOCATE AND RECONNECT THREE(3) EXISTING POWER POLES. ONE POLE WITH TWO(2) NORMAL DUPLEX RECEPTACLES AND TWO(2) DATA DROPS. ONE POLE WITH TWO(2) EMERGENCY DUPLEX RECEPTACLES AND ONE POLE WITH TWO(2) EMERGENCY DUPLEX RECEPTACLES AND TWO(2) DATA DROPS.
- 6 RELOCATE AND RECONNECT TWO(2) EXISTING POWER POLES. EACH WITH TWO(2) EMERGENCY DUPLEX RECEPTACLES AND TWO(2) DATA DROPS.
- 7 RELOCATE AND RECONNECT TWO(2) EXISTING POWER POLES. ONE POLE WITH TWO(2) NORMAL DUPLEX RECEPTACLES AND TWO(2) DATA DROPS AND ONE POLE WITH TWO(2) EMERGENCY DUPLEX RECEPTACLES.
- 8 FURNISH AND INSTALL 6"x6" SEPARATED POWER COLUMN FOR ROUTING OF EMERGENCY POWER, DATA AND WATER. THE FRONT SIDE SHALL CONSIST OF THREE(3) 20W, 16-20R RECEPTACLES, ONE(1) 120V EMERGENCY DUPLEX RECEPTACLE AND CAT6 NETWORK DROP. REFER TO SIEMENS HEALTHINEERS DRAWINGS FOR ADDITIONAL INFORMATION.
- 9 EXISTING POWER POLE TO REMAIN.
- 10 FURNISH AND INSTALL NEW 100A, 3P CIRCUIT BREAKER IN EXISTING PANEL TO FEED NEW PANEL. REFER TO PANEL LOCATION PLAN ON THIS SHEET FOR EXISTING PANEL LOCATION.
- 11 4#1W, 1-#8 GND IN 1-1/2"C.
- 12 2#2W, 1-#8 GND IN 1"C.
- 13 EATON 9555, 1-#1 12W UPS. REFER TO SIEMENS HEALTHINEERS DRAWINGS FOR FURTHER INFORMATION. EXACT LOCATION IN ROOM TO BE FIELD VERIFIED.
- 14 12VA, 208 TO 230VAC STEP UP TRANSFORMER. REFER TO SIEMENS HEALTHINEERS DRAWINGS FOR FURTHER INFORMATION. EXACT LOCATION IN ROOM TO BE FIELD VERIFIED.
- 15 FURNISH AND INSTALL 40A 1PH, 230VAC PHASE-TO-NEUTRAL CIRCUIT BREAKER IN NEMA 1 ENCLOSURE. REFER TO SIEMENS HEALTHINEERS DRAWINGS FOR FURTHER INFORMATION.
- 16 2#8W, 1-#10 GND IN 1"C.
- 17 FURNISH AND INSTALL 40A, 3PH, 230VAC PHASE-TO-NEUTRAL DISCONNECT SWITCH AND MAKE ALL CONNECTIONS TO APTIO AS REQUIRED. REFER TO SIEMENS HEALTHINEERS DRAWINGS FOR FURTHER INFORMATION.
- 18 REVISE RELOCATED POWER POLE TO HAVE THREE(3) EMERGENCY RECEPTACLES AND CONNECT TO NEW CIRCUIT AS SPECIFIED.
- 19 RELOCATE AND EXISTING POWER POLE WITH TWO(2) EMERGENCY DUPLEX RECEPTACLES AND EXTEND AND CONNECT TO NEW CIRCUIT AS SPECIFIED.
- 20 FURNISH AND INSTALL NEW TWO COMPARTMENT POWER POLE FOR EMERGENCY POWER AND DATA. FURNISH WITH FOUR(4) EMERGENCY DUPLEX RECEPTACLES, TWO(2) WIRED PER CIRCUIT, AND WITH FOUR(4) DATA PORTS.
- 21 EXTEND AND CONNECT TO EXISTING CIRCUIT.

Branch Panel: A1-33

Location: LAB 1A041M

Supply From: A1-14-LC

Mounting: Surface

Enclosure: Type 1

Volts: 120/208 Wye

Phases: 3

Wires: 4

A.I.C. Rating: 10K

Mains Type: MCB

Mains Rating: 100 A

MCB Rating: 100 A

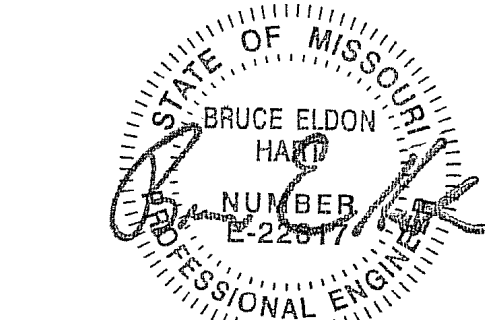
Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	ATELLICA ACCESSORY POWER	20 A	1	0 VA 1200...	1200... 1200...			2	20 A	ATELLICA SAMPLER HANDLER POWER
3	ATELLICA CHEMISTRY ANALYZER POWER	20 A	2			1200... 1200...				4
5	ATELLICA ACCESSORY POWER	20 A	1	0 VA 1200...				2	20 A	ATELLICA IMMUNOASSY POWER
7	ATELLICA SAMPLER HANDLER POWER	20 A	2		1200... 1200...					8
9						1200... 1200...		2	20 A	ATELLICA CHEMISTRY ANALYZER POWER
11										12
13	ATELLICA SYSTEM POWER	20 A	2	1200... 0 VA	1200... 0 VA			1	20 A	AUTOMATION WORKSTATION
15	ACCESSORY POWER	20 A	1			0 VA 0 VA		1	20 A	AUTOMATION WORKSTATION
17								1	20 A	AUTOMATION WORKSTATION
19	APTIO UPS	100 A	2	0 VA 180 VA	0 VA 180 VA			1	20 A	MILLIPORE SYSTEM RECEPTACLE
21						0 VA 0 VA		1	20 A	MILLIPORE SYSTEM RECEPTACLE
23	SPARE	20 A	1					1	20 A	SPARE
25	SPARE	20 A	1	0 VA 0 VA				1	20 A	SPARE
27	SPARE	20 A	1		0 VA 0 VA			1	20 A	SPARE
29	SPARE	20 A	1			0 VA 0 VA		1	20 A	SPARE
31	SPARE	20 A	1	0 VA 0 VA				1	20 A	SPARE
33	BLOOD BANK MINI-FRIG	20 A	1		180 VA					34
35										36
37										38
39										40
41										42
Total Load:				3780 VA	6360 VA	4800 VA				
Total Amps:				32 A	54 A	41 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Other	1440 VA	100.00%	1440 VA	
Receptacle	540 VA	100.00%	540 VA	
				Total Conn. Load: 14940 VA
				Total Est. Demand: 14940 VA
				Total Conn. Current: 41 A
				Total Est. Demand Current: 41 A

Notes:



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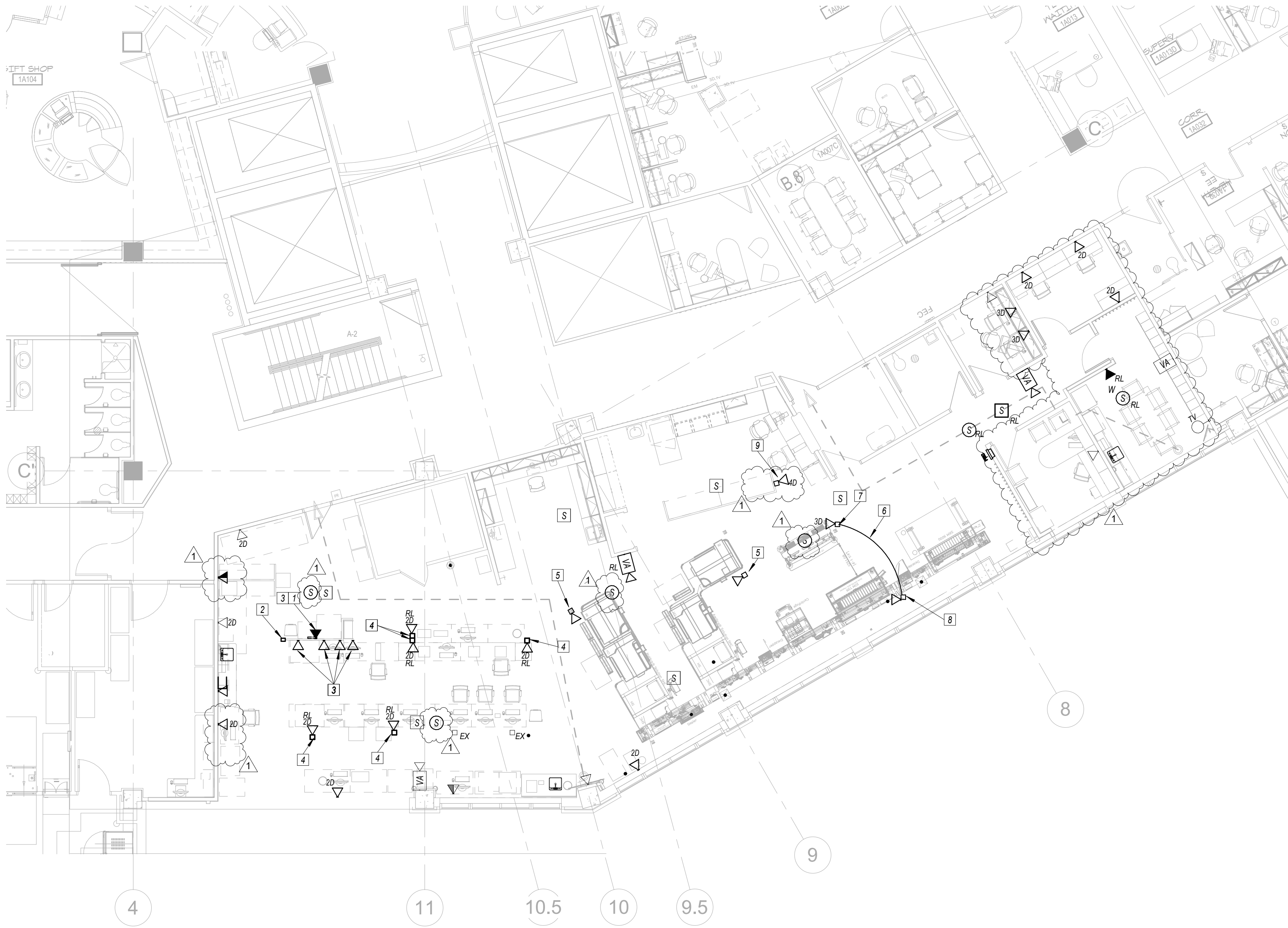
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Checked By BEH

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Number Date Description
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EP2.1

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POWER FIRST FLOOR PLAN &
SCHEDULE



1 FIRST FLOOR COMMUNICATIONS PLAN
1/8" = 1'-0"



ELECTRICAL COMMUNICATIONS GENERAL NOTES

- 1 REFER TO SHEET EX00 FOR GENERAL NOTES. NOT ALL GENERAL NOTES MAY APPLY TO THIS SHEET.
- 2 WORK SHOWN LIGHTLY IS EXISTING TO REMAIN. ALL NEW WORK IS SHOWN DARK AND BOLD.
- 3 THIS IS A 24 HOUR OPERATIONAL FACILITY THEREFORE SOME WORK MAY NEED TO OCCUR AFTER HOURS OR ON WEEKENDS AT NO EXTRA COST TO THE OWNER.

KEYED NOTES 0

- 1 DEDICATED ANALOG TELEPHONE LINE FOR CONNECTION TO REFRIGERATOR/FREEZER ALARM.
- 2 DROP CABLING DOWN IN POWER POLE AND EXTEND AND CONNECT TO SYSTEM FURNITURE MOUNTED DEVICES.
- 3 DEVICE MOUNTED IN SYSTEM FURNITURE. EXTEND CABLING THROUGH FURNITURE RACEWAY TO POWER POLE CONNECTION POINT.
- 4 DROP CABLING DOWN IN RELOCATED POWER POLE AND RECONNECT TO TWO(2) EXISTING POLE MOUNTED DATA DROPS.
- 5 CAT5 NETWORK DROP MOUNTED IN 6"x6" SEPARATED POWER COLUMN. REFER TO SIEMENS HEALTHINEER DRAWINGS FOR ADDITIONAL INFORMATION.
- 6 FURNISH AND INSTALL SIX(6) CAT 6 CABLES BETWEEN APTIO WORKSTATION AND APTIO UTILITY LOCATION. REFER TO SIEMENS HEALTHINEER'S DRAWINGS FOR FURTHER INFORMATION.
- 7 REVISE RELOCATED POWER POLE WITH THREE(3) NETWORK DATA DROPS AND CONNECTION POINT FOR SIX(6) CAT5 CABLES TO APTIO. REFER TO SIEMENS HEALTHINEER'S DRAWINGS FOR FURTHER INFORMATION.
- 8 REVISE RELOCATED POWER POLE WITH ONE(1) NETWORK DATA DROPS AND CONNECTION POINT FOR SIX(6) CAT5 CABLES FROM APTIO WORKSTATION. REFER TO SIEMENS HEALTHINEER'S DRAWINGS FOR FURTHER INFORMATION.
- 9 DATA DROPS MOUNTED IN NEW POWER POLE. REFER TO ELECTRICAL POWER PLAN FOR ADDITIONAL POWER POLE INFORMATION.

STATE OF MISSOURI
BRUCE ELDON
HART
NUMBER
Professional Engineer

09/18/2020

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Missouri #E-22817

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COMMUNICATIONS FIRST FLOOR
PLAN