



LAB REMODEL
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LEE'S SUMMIT, MO 64086

STATE OF MISSOURI

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Issue Date

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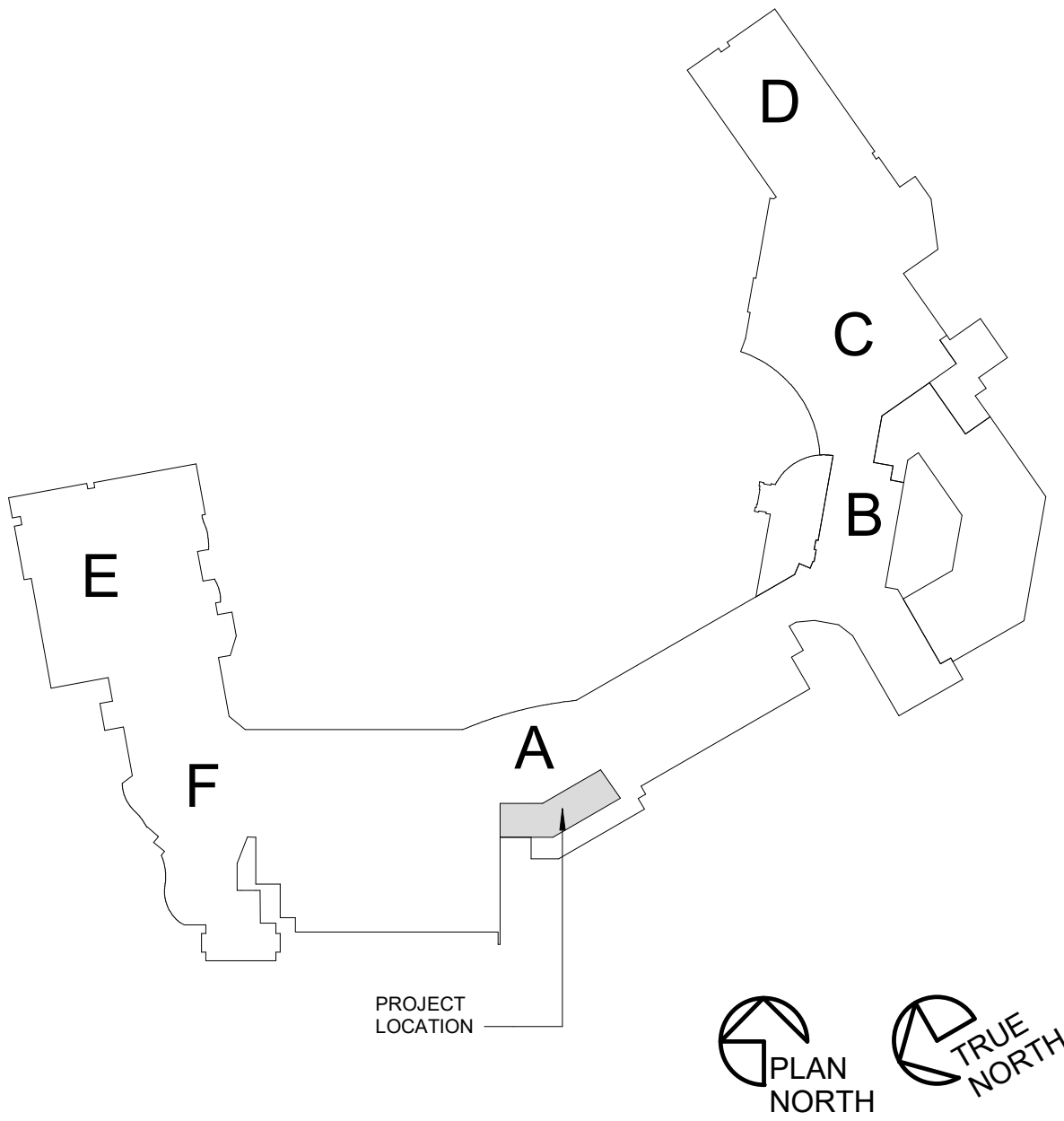
PROJECT TEAM

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ABBREVIATIONS

AC. ACCUSTIC/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	FV. FIELD VERIFY	PTN. PARTITION
AC. AIR CONDITIONING		P. PENNY
AL. ALUMINUM	GA. GAUGE	PL. PLATE
ALT. ALTERNATE	GL. GLASS/ GLAZING	PLBQ. PLUMBING
A.B. ANCHOR BOLT	GD. GRADE	PLYWD. PLYWOOD
& AND	G. GRAM	
ARCH. ARCHITECT	GRIL. GRILLE	PT. POINT
ASP. ASPHALT	GRD. GRID	P.S.I. POUNDS PER SQ. IN.
@ AT	GRD. GROUND	P.S.F. POUNDS PER SQ. FT.
ACT. ACOUSTIC CEILING TILE/PANEL	G.S. GALVANIZED STEEL	P.C. PRECAST
ANGLE	GYP. GYPSUM	P.L. PROPERTY LINE
GWBG.B. GYPSUM BOARD		
		R. RISER, RISERS
BLKG. BLOCKING	H.R. HAND RAIL	RAD. RADIUS
BSMT. BASEMENT	HDN. HARDENER	R.D. ROOF DRAIN
BM. BEAM	HDW. HARDWARE	RB. RESILIENT BASE
B.M. BENCHMARK	HDWD. HARDWOOD	RE. REFER TO
BD. BOARD	HTR. HEATER	REG. REGISTER
B.O. BOTTOM OF	HT. HEIGHT	REQD. REQUIRED
BLDG. BUILDING	H.T. HIGH POINT	REV. REVISION
	H.M. HOLLOW METAL	RFG. ROOFING
CABT. CABINET	HORIZ. HORIZONTAL	RCH. ROUGH
C.I.P. CAST IN PLACE	H.B. HOSE BIB	RM. ROOM
C.B. CATCH BASIN	H.W. HOT WATER	RND. ROUND
C.G. CEILING		R.O. ROUGH OPENING
CEM. CEMENT/CEMENTITIOUS	IN. INCH / INCHES	
CG. CENTIGRAM	ID. INSIDE DIAMETER	SCHED. SCHEDULE
CM. CENTIMETER	INSUL. INSULATION	S.C. SEALED CONCRETE
CL. CENTER LINE	INT. INTERIOR	SCR. SCREW
CER. CERAMIC	INV. INVERT	SECT. SECTION
C.T. CERAMIC TILE		SEL. SELECT
CHAN. CHANNEL	JAN. JANITOR	SHG. SHEATHING
C. CLEAR	JOINT	SHT. SHEET
CLR. CLEAN OUT	JOIST	SDG. SIDING
C.O. CLOS.	K.P. KICK PLATE	SIM. SIMILAR
COL. COLUMN	LAM. LAMINATED	SLDNG. SLIDING
CONC. CONCRETE	LB. POUND	SM. SMOOTH
CONN. CONNECTION	LDG. LANDING	SPEC. SPECIFICATION
CONST. CONSTRUCTION	LTH. LATH	SO. SQUARE
C.J. CONTROL JOINT	LAV. LAVATORY	ST. STAINED
CONT. CONTINUOUS	LG. LENGTH	STD. STANDARD
CONTR. CONTRACTOR	LOC. LOCATION	S.S. / ST.STL. STAINLESS STEEL
CORP. CORRUGATED	LOC. LOCATION	STRUC. 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. DECEBEL	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 DRAIN
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	
EXH. EXHAUST		W.W.M. WELDED WIRE MESH
EXPAN. EXPANSION	OBS. OBSOLETE	W.C. WATER CLOSET
E.I. EXPANSION JOINT	O.C. ON CENTER	W.H. WATER HEATER
EXIST. EXISTING	OPNG. OPENING	W.F. WIDE FLANGE
EXT. EXTERIOR	O.A. OVERALL	W. WITH
	O.D. OUTSIDE DIAMETER	WO. WITHOUT
FT. FEET / FOOT	O.F.S. OVERFLOW SCUPPER	WD. WOOD
FIN. FINISH	O.H.D. OVERHEAD DOOR	WDW. WINDOW
FIXT. FIXTURE		W.W. WINDOW WALL
FL. FLASHING		
FLR. FLOOR		
F.D. FLOOR DRAIN		

LOCATION PLAN



SHEET INDEX

SHEET NUMBER	SHEET NAME
GENERAL	
A0.1	COVER SHEET
A0.2	CODE FOOTPRINT PLAN
A0.3	GENERAL NOTES, LEGENDS, SYMBOLS, & PARTITION TYPES
A0.4	U.L. DESIGN ASSEMBLIES
DEMOLITION	
AD2.1	DEMOLITION PLAN
AD2.2	DEMOLITION REFLECTED CEILING PLAN
ARCHITECTURE	
AP2.1	ARCHITECTURAL PHASING PLAN
A2.1	FIRST FLOOR PLAN
A3.1	FIRST FLOOR REFLECTED CEILING PLAN
A4.1	FIRST FLOOR FINISH PLAN, FINISH SCHEDULE & LEGEND
PLUMBING	
PM000	SYMBOLS, ABBREVIATIONS, & GENERAL NOTES
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P2.0	PLUMBING BASEMENT PLAN
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MECHANICAL	
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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
DE2.1	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

NOTE: REFER TO SAINT LUKE'S STANDARD SPECIFICATIONS.
REFER TO SIEMENS & MILLIPORE VENDOR DRAWINGS FOR ADDITIONAL INFORMATION.

Saint Luke's

EAST HOSPITAL

LAB REMODEL

100 NE ST LUKES BLVD,
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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

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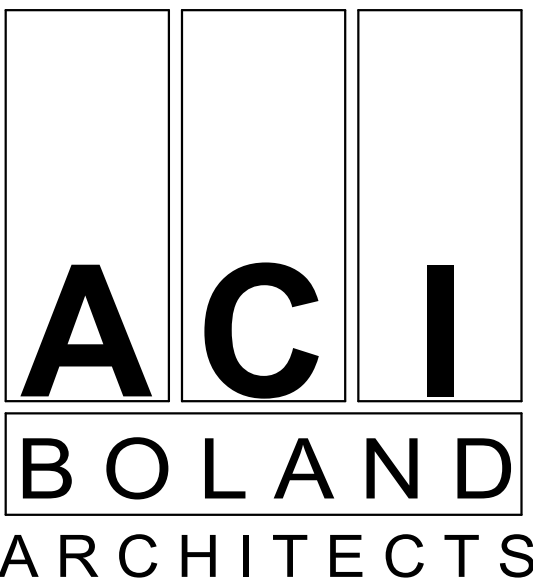
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GENERAL NOTES

- 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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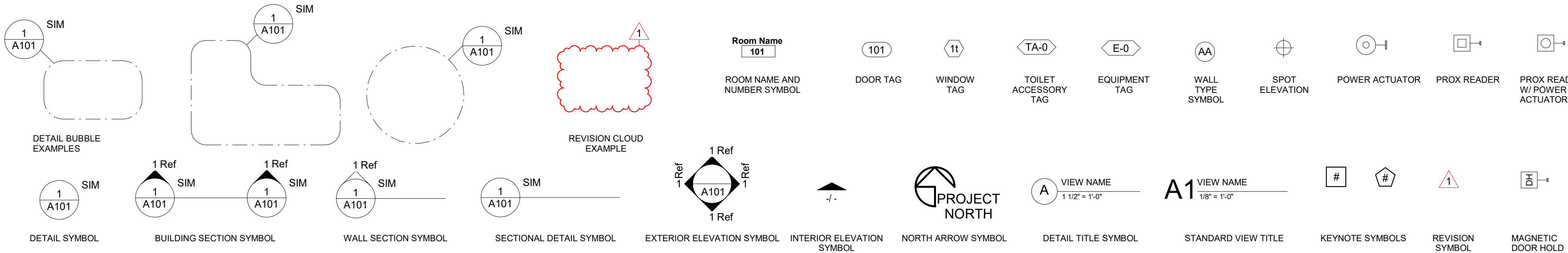
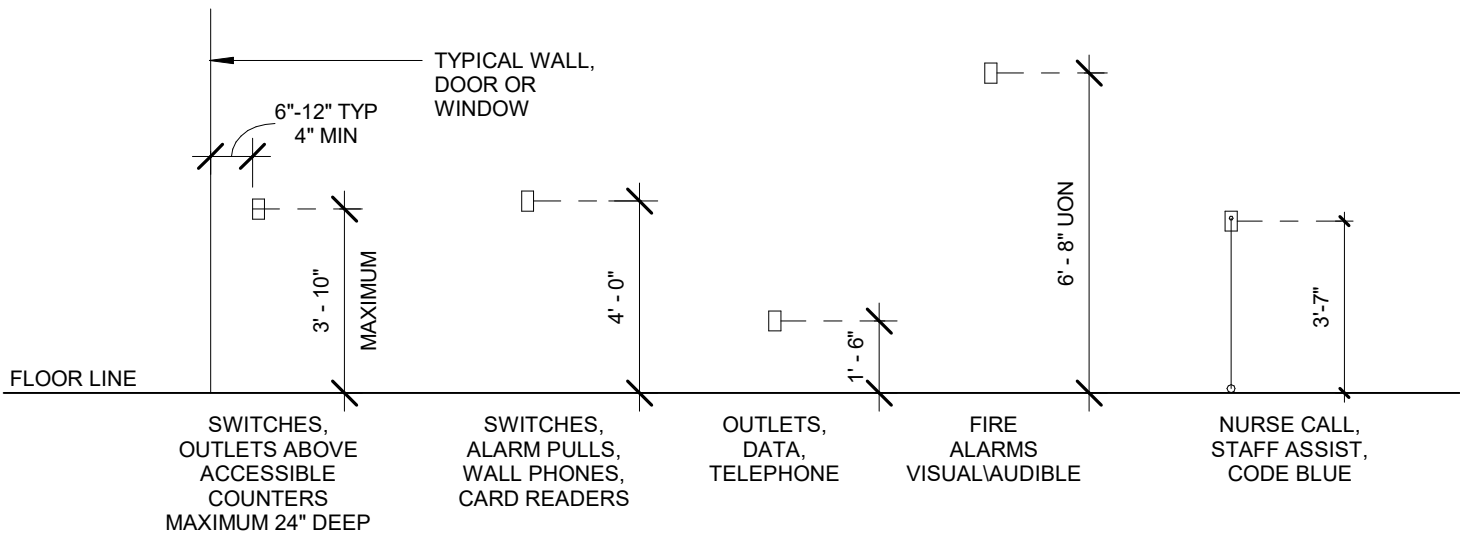
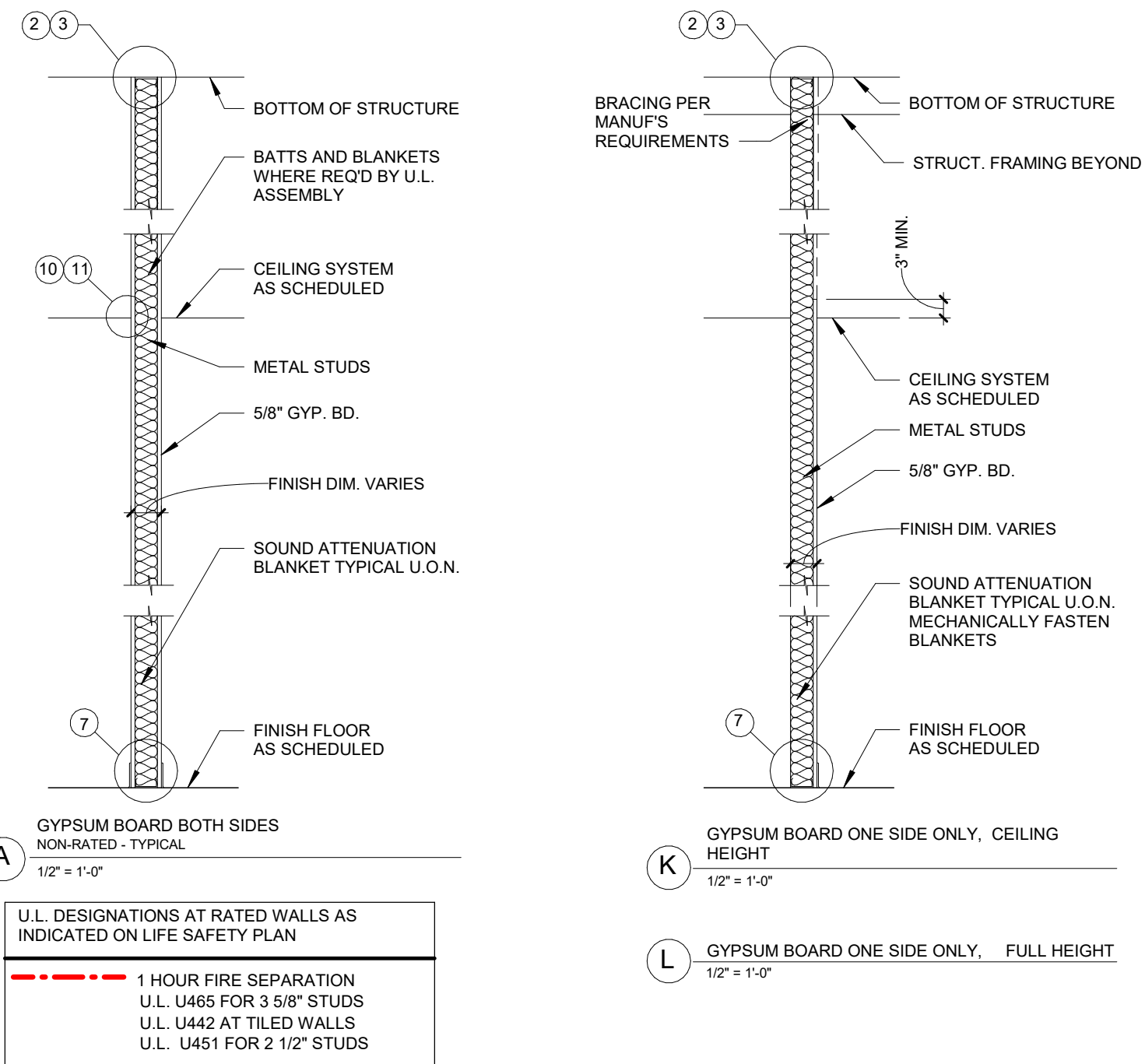
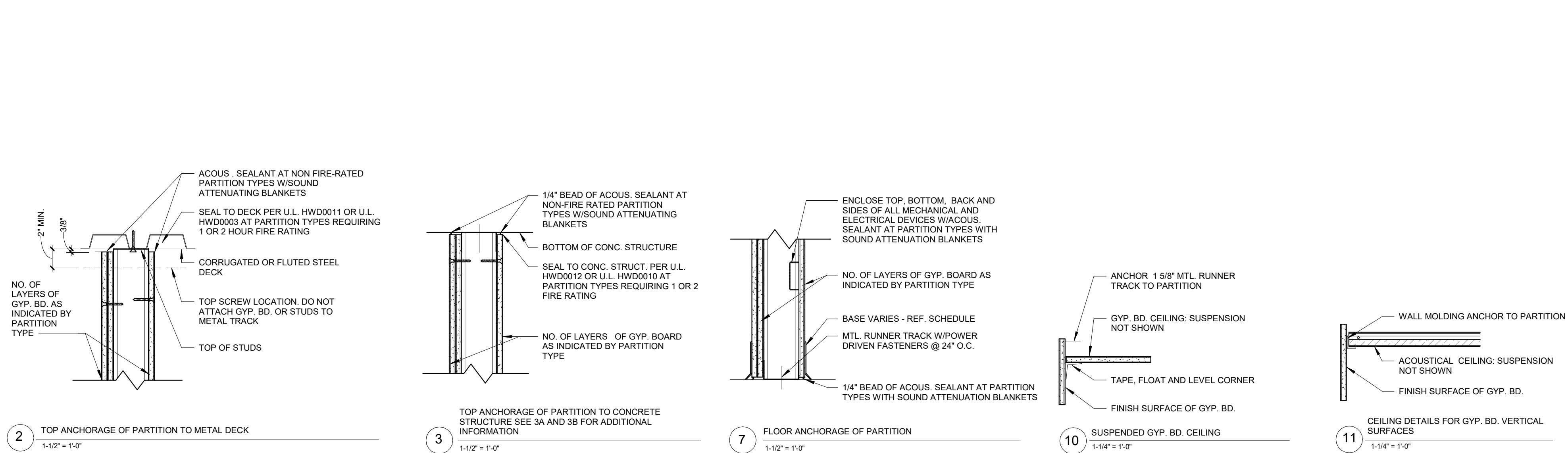
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PARTITION GENERAL NOTES

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

SUFFIX	MTL. STUD THICKNESS
1	1-5/8" MTL. STUDS
2	2-1/2" MTL. STUDS
3	6" MTL. STUDS
- UNLESS NOTED OTHERWISE, ALL INTERIOR DRYWALL PARTITIONS INDICATED ON THE FLOOR PLAN DRAWING ARE TYPE '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.



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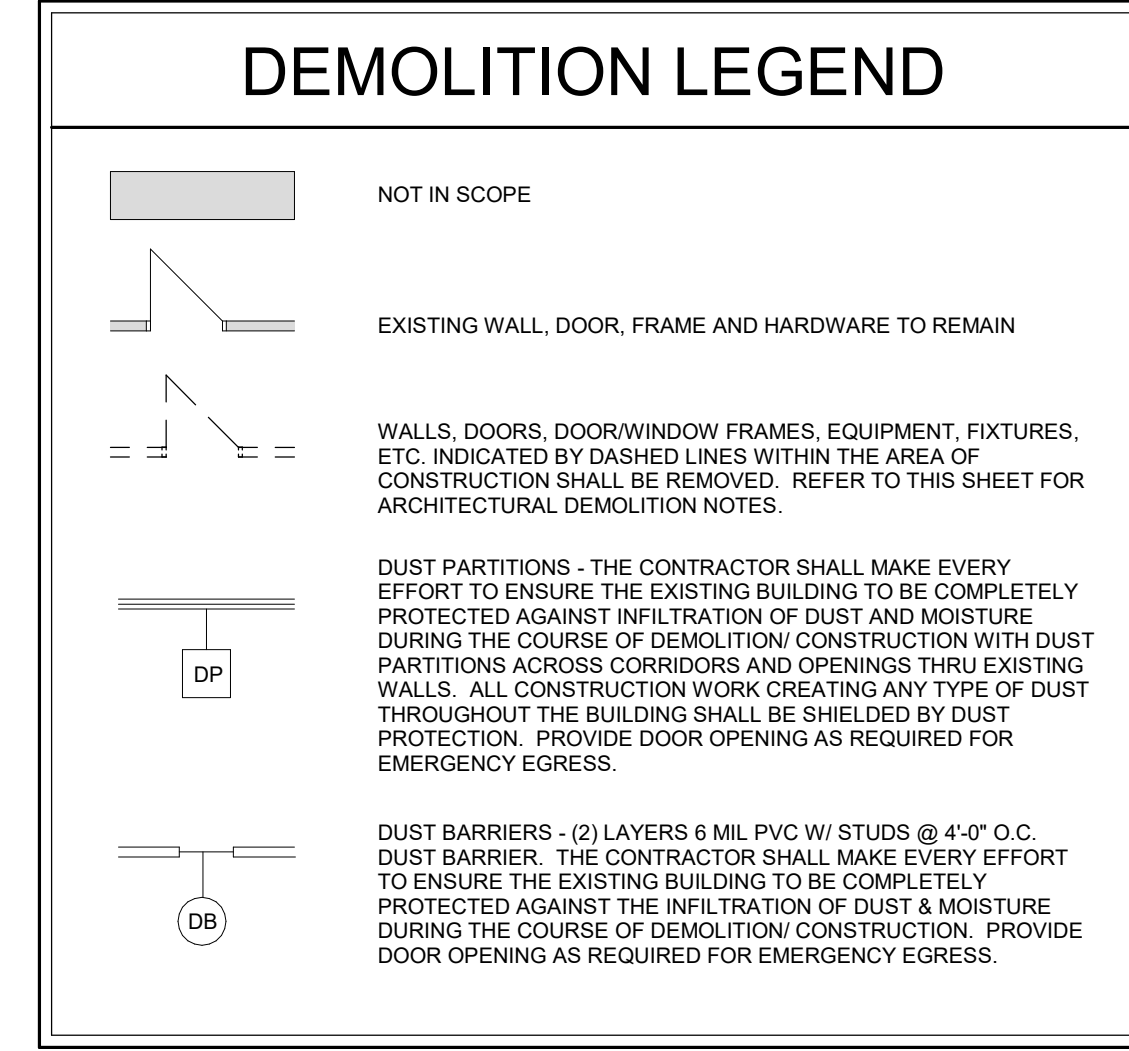
Revision
Number Date Description

A0.3

GENERAL NOTES, LEGENDS,
SYMBOLS, & PARTITION TYPES

- ### 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 IN ALL AREAS THAT REQUIRE THE REMOVAL OF GENERAL MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION WORK AND OF EQUIPMENT AND FIXTURES.
 - THE CONTRACTOR SHALL PROVIDE FOR ALL NECESSARY TEMPORARY RELOCATION AND MAINTENANCE OF ALL EXISTING UTILITIES WHICH ARE CURRENTLY IN USE AND WHICH MUST BE TEMPORARILY RELOCATED DURING CONSTRUCTION OF NEW AREAS AND RENOVATION OF EXISTING AREAS.
 - REFER TO MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR WORK REQUIRED FOR NEW CONSTRUCTION.
 - WHERE REMOVAL OF EXISTING PARTITIONS, EQUIPMENT, ETC. DISTURBS EXISTING MECHANICAL, PLUMBING OR ELECTRICAL SERVICES, THE CONTRACTOR SHALL MAKE PERMANENT REVISIONS/PROVISIONS AS REQUIRED TO MAINTAIN SERVICES AND IF NECESSARY, PROVIDE TEMPORARY SERVICES TO AREAS NOT SCHEDULED FOR DEMOLITION, RENOVATION, AND/OR NEW CONSTRUCTION.
 - WHERE EXISTING WALLS, CEILING, 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 REPORTED TO THE ARCHITECT AND OWNER WITH A RECOMMENDATION FOR RESOLUTION OF THE CONDITIONS.
 - 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 WATERTIGHT, 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.
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. TERMINATE AND CAP ALL ELECTRICAL.
5	COORDINATE REMOVAL & RELOCATION OF ALL EXISTING FURNITURE & EQUIPMENT WITH OWNER.
6	PATCH & REPAIR EXISTING FLOOR AS NEEDED.
7	REMOVE EXISTING FLOORING & WALL BASE. PREP SUBFLOOR TO RECEIVE NEW FLOORING.
8	PREP REMAINING WALLS TO RECEIVE NEW WALL BASE. PATCH, REPAIR, AND PAINT REMAINING EXISTING WALLS AS NEEDED.
9	REMOVE EXISTING POWER POLES. CAP ALL WIRES & CONDUIT AS NEEDED. SALVAGE POLES FOR REUSE. RE: MEP.
10	REMOVE EXISTING TV AND ASSOCIATED BRACKET. CAP ALL WIRES & CONDUIT AS NEEDED. SALVAGE TV AND BRACKET FOR REUSE. RE: MEP.
11	REMOVE EXISTING COMPUTER, MONITOR, AND ACCESSORIES. SALVAGE FOR REUSE.
12	REMOVE EXISTING ANALYZERS. RE: PHASING PLAN FOR TEMPORARY RELOCATION.
14	REMOVE SINK, CABINETS, COUNTERTOP AND ASSOCIATED PLUMBING AND ELECTRICAL ITEMS. SALVAGE FOR REUSE. RE: FLOOR PLAN & MEP.
15	REMOVE EXISTING LIGHT FIXTURE. SALVAGE FOR REUSE. RE: MEP.
16	REMOVE EXISTING SUPPLY DIFFUSER. SALVAGE FOR REUSE. RE: MEP.
17	MOVE EXHAUST DUCT AND REPLACE CEILING TILE, IF NEEDED, TO ACCOMMODATE FUME HOOD RELOCATION.
18	REMOVE EXISTING POWER POLES. CAP ALL WIRES & CONDUIT AS NEEDED. SALVAGE POLES FOR REUSE. RE: MEP. REPLACE INDIVIDUAL CEILING TILES AS NEEDED AFTER POWER POLES ARE RE-LOCATED.
19	REMOVE EXISTING CEILING GRID AND TILES.

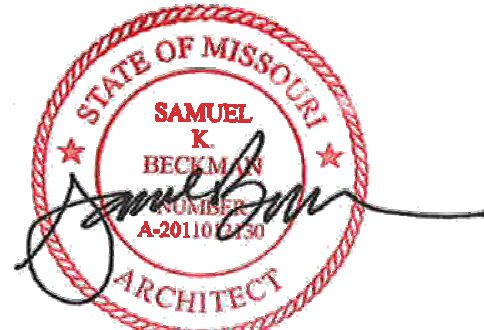


SMOKE TIGHT (NON-COMBUSTIBLE CONSTRUCTION PARTITION)
DP 1 1/2" = 1'-0"

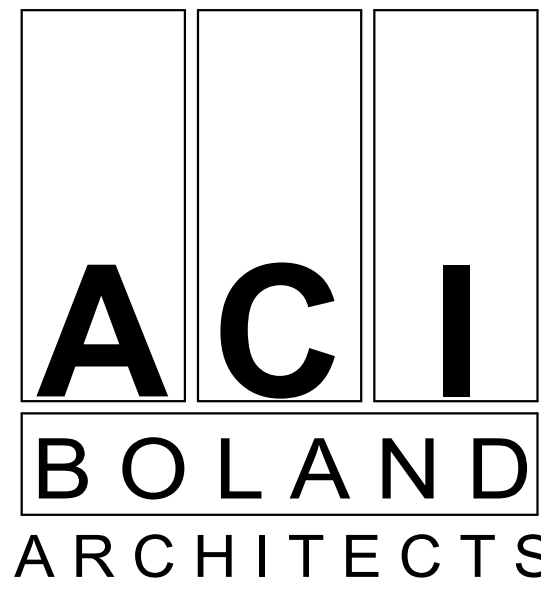


A3 01 - FIRST FLOOR DEMO PLAN - PHASE 2
1/4" = 1'-0"





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

Revision
Number Date Description

AP2.1

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ARCHITECTURAL PHASING PLAN

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 1A

1. COORDINATE REMOVAL & RELOCATION OF ALL EXISTING EQUIPMENT AND FURNITURE IN TRANSPORTER'S OFFICE 1A007B.
2. PERFORM NEW FINISH WORK. (RE: FINISH PLAN & FINISH SCHEDULE)

PHASE 1B

1. COORDINATE REMOVAL & RELOCATION OF ALL WIRE SHELVING TO NEW LAB STORAGE 1A007B (PREVIOUSLY TRANSPORTER'S OFFICE 1A007B).
2. DEMO EXISTING OFFICES P.O.C. 1A041H & CYST 1A041G (RE: DEMO PLAN).
3. PERFORM ALL DEMO & NEW CEILING WORK AT EXISTING OFFICES P.O.C. 1A041H & CYST 1A041G (RE: DEMO RCP & RCP).
4. RELOCATE EXISTING VITROS TO TEMPORARY LOCATION IN LAB. (RE: D4/AP2.1 FOR TEMP LOCATION.)

PHASE 1C

1. COORDINATE RELOCATION OF ALL FURNITURE IN LAB 1A041M (RE: FLOOR PLAN).
2. COORDINATE RELOCATION OF ALL EQUIPMENT IN LAB 1A041M (RE: FLOOR PLAN).
3. PERFORM NEW WORK.
4. NEW SIEMENS CHEMISTRY ANALYZERS TO BE INSTALLED. (RE: FLOOR PLAN, MEP, & VENDOR DRAWINGS).
5. ALL UTILITY WORK REQUIRED FOR BOTH THE NEW SIEMENS CHEMISTRY ANALYZERS AND SIEMENS AUTOMATION LINE TO BE COMPLETED DURING THIS PHASE. (RE: MEP & VENDOR DRAWINGS).

PHASE 2A

1. COORDINATE REMOVAL & RELOCATION OF FURNITURE, EQUIPMENT, AND CASEWORK AS REQUIRED IN BREAK ROOM 1A041D. (RE: DEMO PLAN).
2. PERFORM NEW WORK IN BREAK ROOM 1A041D, CREATING NEW SUPERVISOR'S OFFICE 1A037C.
3. COORDINATE RELOCATION OF FURNITURE FROM EXISTING SUPERVISOR'S OFFICE 1A041E TO NEW SUPERVISOR'S OFFICE 1A037C.
4. PERFORM NEW WORK TO EXISTING SUPERVISOR'S OFFICE 1A041E, CREATING NEW SHARED OFFICE 1A041E.

PHASE 2B

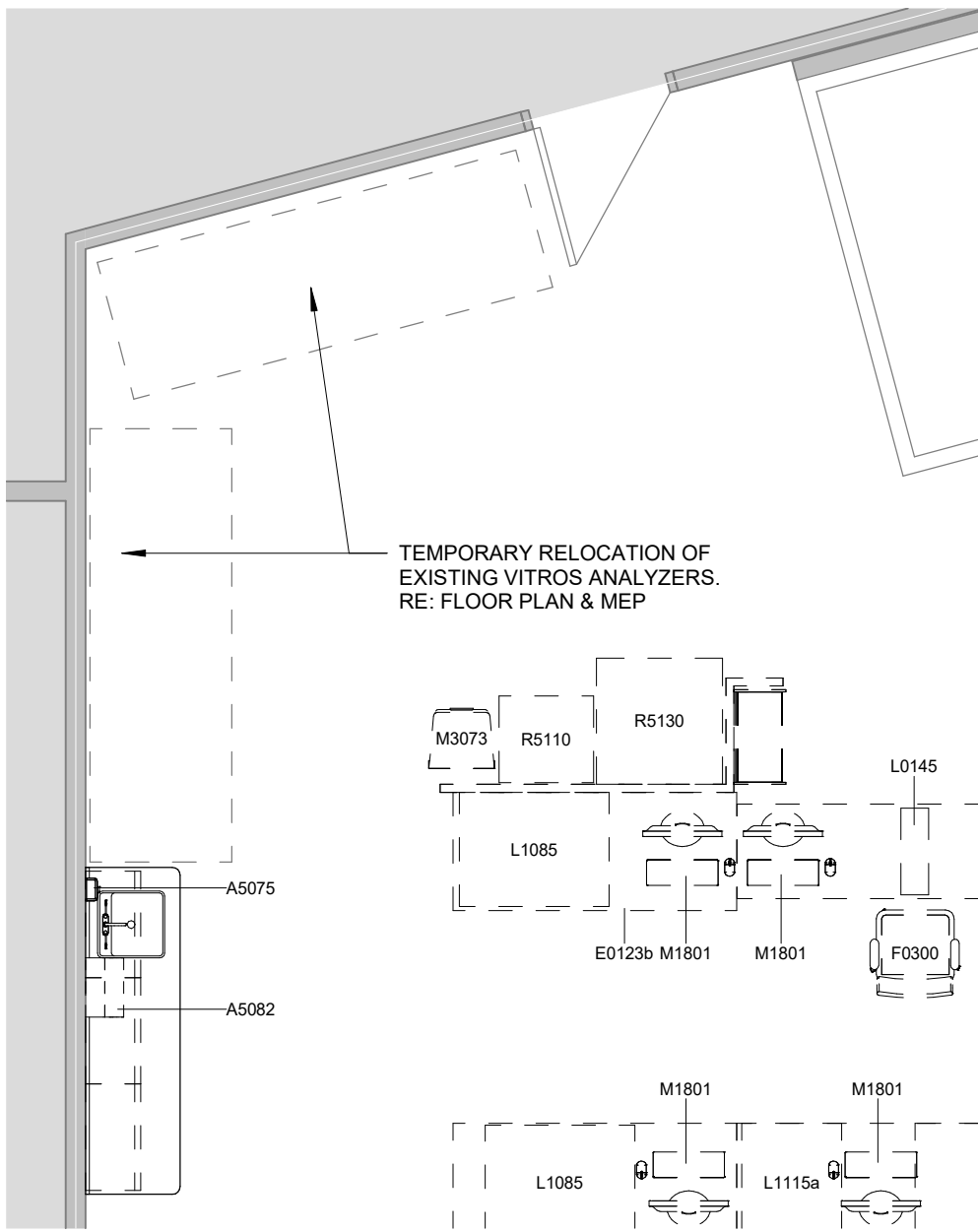
1. COORDINATE RELOCATION OF FURNITURE & EQUIPMENT FROM EXISTING SHARED OFFICE TO NEW SHARED OFFICE 1A041E.
2. DEMO EXISTING SHARED OFFICE. (RE: DEMO PLAN).

PHASE 2C

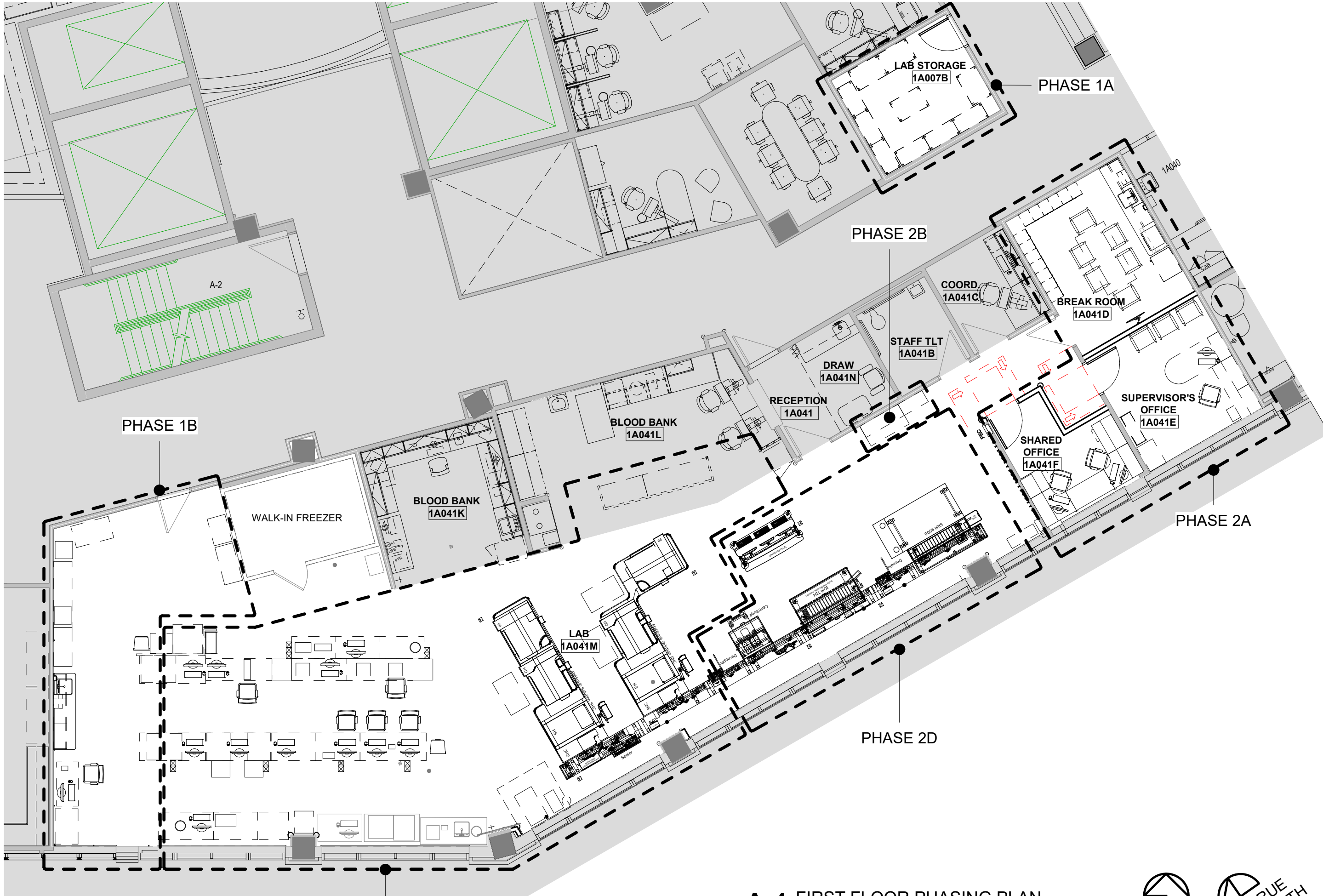
1. COORDINATE REMOVAL OF TEMPORARILY RELOCATED ANALYZERS.
2. COORDINATE RELOCATION OF ALL FILE STORAGE (RE: FLOOR PLAN).
3. COORDINATE REMOVAL OF EXISTING MODULAR CASEWORK, WALLS, AND PANELS. (RE: DEMO PLAN).
4. PATCH AND REPAIR EXISTING CONSTRUCTION AS REQUIRED.

PHASE 2D

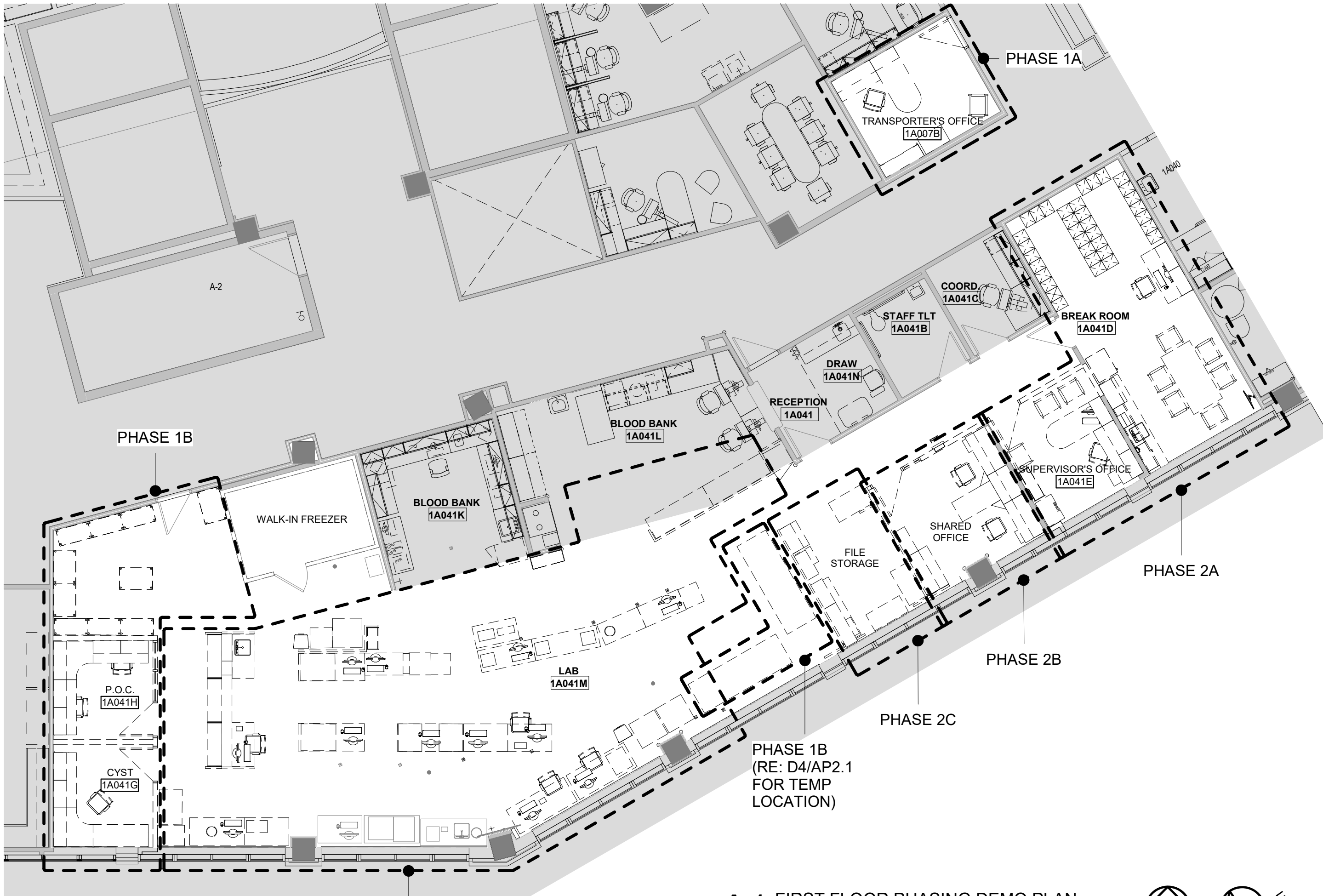
1. NEW SIEMENS AUTOMATION LINE TO BE INSTALLED. (RE: VENDOR DRAWINGS).



D4 TEMP ANALYZERS LOCATION
1/4" = 1'-0"



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



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



FFE SCHEDULE			
TYPE MARK	DESCRIPTION	RESPONSIBILITY	COMMENTS
A1030	LOCKER, 3 TIER	VFVI	RELOCATED BY JOHN A. MARSHALL
A5075	SOAP DISPENSER	OFCI	NEW
A5082	PAPER TOWEL DISPENSER	OFCI	NEW
A5145	COAT RACK	OFCI	NEW BY JOHN A. MARSHALL. PROVIDE IN WALL BLOCKING.
A5210	BRACKET, TELEVISION, SWIVEL	OFCI	PROVIDE IN WALL BLOCKING. COORDINATE FINAL HEIGHT & BRACKET SIZE W/ OWNER
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
E0117c	WORKSTATION, MOBILE, 48"W, 24"D	VFVI	NEW 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
F0410c	FILE, LATERAL, HALF HEIGHT	VFVI	RELOCATED BY JOHN A. MARSHALL
F0410d	FILE, LATERAL, HALF HEIGHT	VFVI	RELOCATED BY JOHN A. MARSHALL
F0410e	FILE, LATERAL, FULL HEIGHT	VFVI	RELOCATED BY JOHN A. MARSHALL
F0430	CABINET, BFF, MOBILE PEDESTAL	VFVI	RELOCATED BY JOHN A. MARSHALL
F0795	DINING TABLE	VFVI	RELOCATED BY JOHN A. MARSHALL

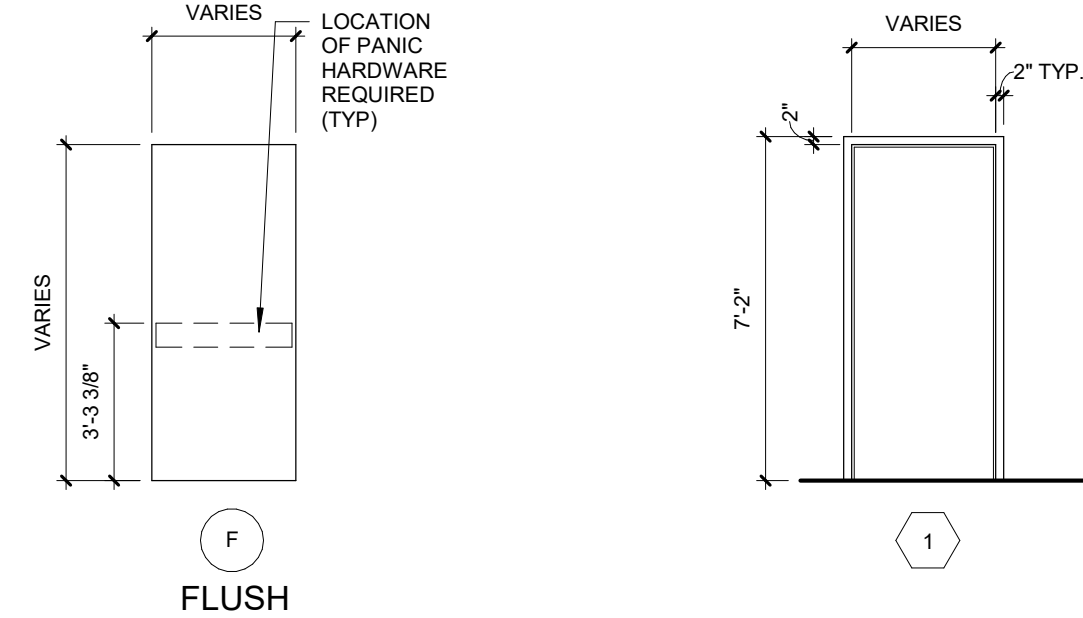
FFE SCHEDULE GENERAL NOTES

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

FFE SCHEDULE			
TYPE MARK	DESCRIPTION	RESPONSIBILITY	COMMENTS
F2540	SHRED-IT	OFCI	EXISTING
F3025	TACK BOARD	OFCI	RELOCATED. POWER AS REQUIRED. RE: MEP
K4655	MICROWAVE	OFCI	RELOCATED. POWER AS REQUIRED. RE: MEP
L0100	MICROSCOPE, DUAL HEAD	OFCI	RELOCATED. POWER AS REQUIRED. RE: MEP
L0145	MICROSCOPE, DUAL HEAD	OFCI	RELOCATED. POWER AS REQUIRED. RE: MEP
L0990	ANALYZER, URINE (SYSMEX UF-1000)	OFCI	RELOCATED. POWER & DATA AS REQUIRED. RE: MEP
L0995a	ANALYZER, URINE (SIEMENS CLINITEK NOVUS)	OFCI	RELOCATED. POWER & DATA AS REQUIRED. RE: MEP
L1030	ANALYZER, CHEMISTRY, STAT (GEM PREMIERES 4000)	OFCI	RELOCATED. POWER & DATA AS REQUIRED. RE: MEP
L1070	BATH, WATER, PLASMA THAWING HELMER	OFCI	RELOCATED. POWER AS REQUIRED. RE: MEP
L1185	ANALYZER, COAGULATION (STAGO)	OFCI	RELOCATED. POWER & DATA AS REQUIRED. RE: MEP
L1115a	ANALYZER, HEMATOLOGY (SYSMEX XM-1000)	OFCI	RELOCATED. POWER & DATA AS REQUIRED. RE: MEP
L1115b	ANALYZER, HEMATOLOGY (EXOTEC)	OFCI	RELOCATED. POWER AS REQUIRED. RE: MEP
L1190	OSMOMETER	OFCI	RELOCATED. POWER AS REQUIRED. RE: MEP
L1300	CENTRIFUGE	OFCI	RELOCATED. POWER AS REQUIRED. RE: MEP
L2310	CABINET, BIOSAFETY, F/S, 48"W	OFCI	RELOCATED
L2575	INCUBATOR, PLATELET STORAGE SYSTEM (HELMER)	OFCI	RELOCATED. POWER AS REQUIRED. RE: MEP
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
M2558a	WIRE SHELVING, 48"Wx18"Dx74"H	OFCI	RELOCATED BY METRO SHELVING
M2558b	WIRE SHELVING, 48"Wx18"Dx74"H	VFVI	RELOCATED BY METRO SHELVING
M3073	BASKET, INFECTIOUS WASTE, STEP-ON	VFVI	RELOCATED
R5100	FREEZER	OFCI	RELOCATED. POWER AS REQUIRED. RE: MEP
R5110	FREEZER, PLASMA, U/C	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 & DATA 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	WIDTH	HEIGHT
1A007B	LAB STORAGE	3'-0"	7'-0"
1A037C	SUPERVISOR'S OFFICE	3'-0"	7'-0"
1A041E	SHARED OFFICE	3'-0"	7'-0"

DOOR ELEVATIONS: FRAME ELEVATIONS:



DOOR HARDWARE			
HARDWARE SET: 01 DOOR NUMBER: 1A007B			
EACH TO HAVE:	DESCRIPTION	CATALOG NUMBER	FINISH
3 EA	HINGE	58B1HWSC	626 IVE
1 EA	STOREROOM LOCK	NB01LD RHO	626 SCH
1 EA	CYLINDER	BY OWNER	626 SCH
1 EA	ELECTRIC STRIKE	1211 FSE	630 VON
1 EA	SURFACE CLOSER	4040 XP	689 LCN
1 EA	KICK PLATE	8400 10" X 2" L/W	630 IVE
1 EA	WALL STOP	WS406407CCV	630 IVE
1 EA	DOOR CONTACT	675-05	WHT
1 EA	CARD ACCESS	BY SECURITY	
1 EA	LOW VOLTAGE POWER	BY SECURITY	
1 EA	WIRING DIAGRAM	BY SECURITY	
OPERATION: DOOR NORMALLY CLOSED AND LOCKED. ENTRY VIA VALID CARD READ. ALWAYS FREE FOR EGRESS.			
HARDWARE SET: 02 DOOR NUMBER: 1A041E, 1A041F			
EACH TO HAVE:	DESCRIPTION	CATALOG NUMBER	FINISH
3 EA	HINGE	58B1HW	626 IVE
1 EA	ENTRANCE LOCK	NB3LD RHO	626 SCH
1 EA	WALL STOP	WS406407CCV	630 IVE

DOOR & FRAME MAT'L LEGEND	
HM	HOLLOW METAL
WD	SOLID CORE WOOD

GENERAL PLAN NOTES

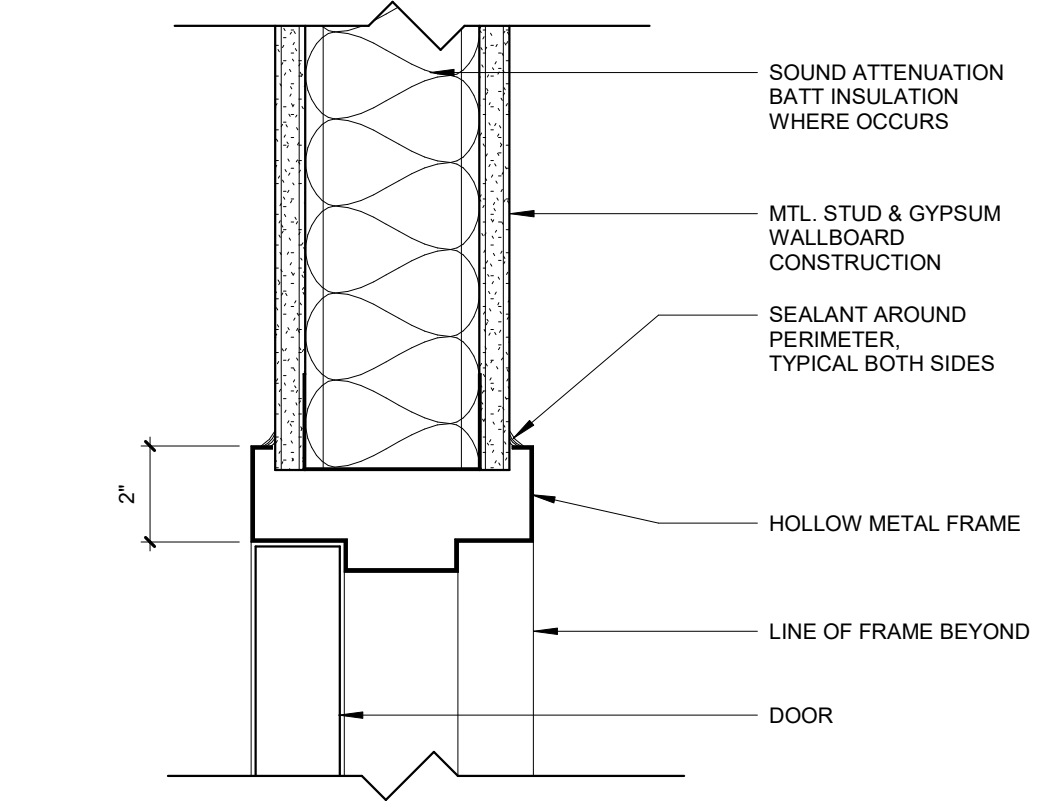
- REFER TO GENERAL NOTES, LEGENDS & SYMBOLS SHEET FOR ADDITIONAL GENERAL NOTES AS APPLICABLE.
- TYPICAL DIMENSIONS ARE TO FACE OF CONCRETE, DRYWALL, CURTAIN WALL, ETC., OR TO COLUMN CENTERLINE. DIMENSIONS AT WINDOWS ARE TYPICALLY TO FACE OF FRAME. REFER TO PLAN DETAILS FOR ADDITIONAL INFORMATION.
- ALL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

KEYNOTES - FLOOR PLAN

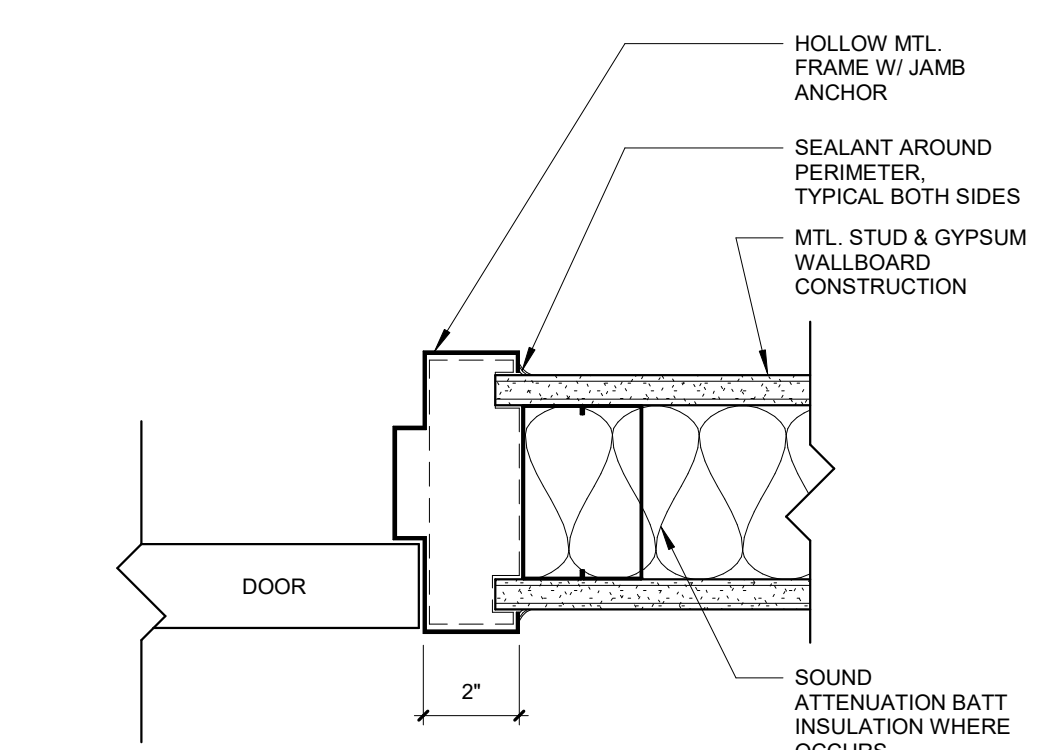
NUMBER	COMMENTS
1	NEW FLOOR DRAIN, RE: MEP. PATCH AND REPAIR FLOORING AS REQUIRED.
2	RELOCATED POWER POLES. FINAL COUNTS AND LOCATIONS TO BE COORDINATED W/ OWNER. RE: MEP & SIEMENS DRAWINGS FOR UTILITY REQUIREMENTS. PATCH AND REPAIR FLOOR AND REPAIR CEILING TILES AS REQUIRED.
3	NEW EQUIPMENT AND AUTOMATION LINE TO BE INSTALLED. RE: VENDOR DRAWINGS
4	RELOCATED FURNITURE & EQUIPMENT. COORDINATE RELOCATION WITH OWNER.
5	RELOCATED CASEWORK, NEW PLUMBING AND ELECTRICAL AS REQUIRED. RE: MEP.
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	RELOCATED BLOOD DRAW BULLETIN BOARD.
10	NEW COAT HOOKS BY JOHN A. MARSHALL FOR RELOCATED LAB COATS. BLOCKING AS REQUIRED.
11	PROVIDE POWER & DATA FOR TEMPORARY RELOCATION OF LAB ANALYZERS. RE: MEP & ARCHITECTURAL PHASING PLAN.
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 GFI 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	ATELLECA UPS. RE: MEP & VENDOR INFORMATION
23	ATELLECA TRANSFORMER. RE: MEP & VENDOR INFORMATION
24	ATELLECA DISCONNECT SWITCH. RE: MEP & VENDOR INFORMATION

FLOOR PLAN LEGEND

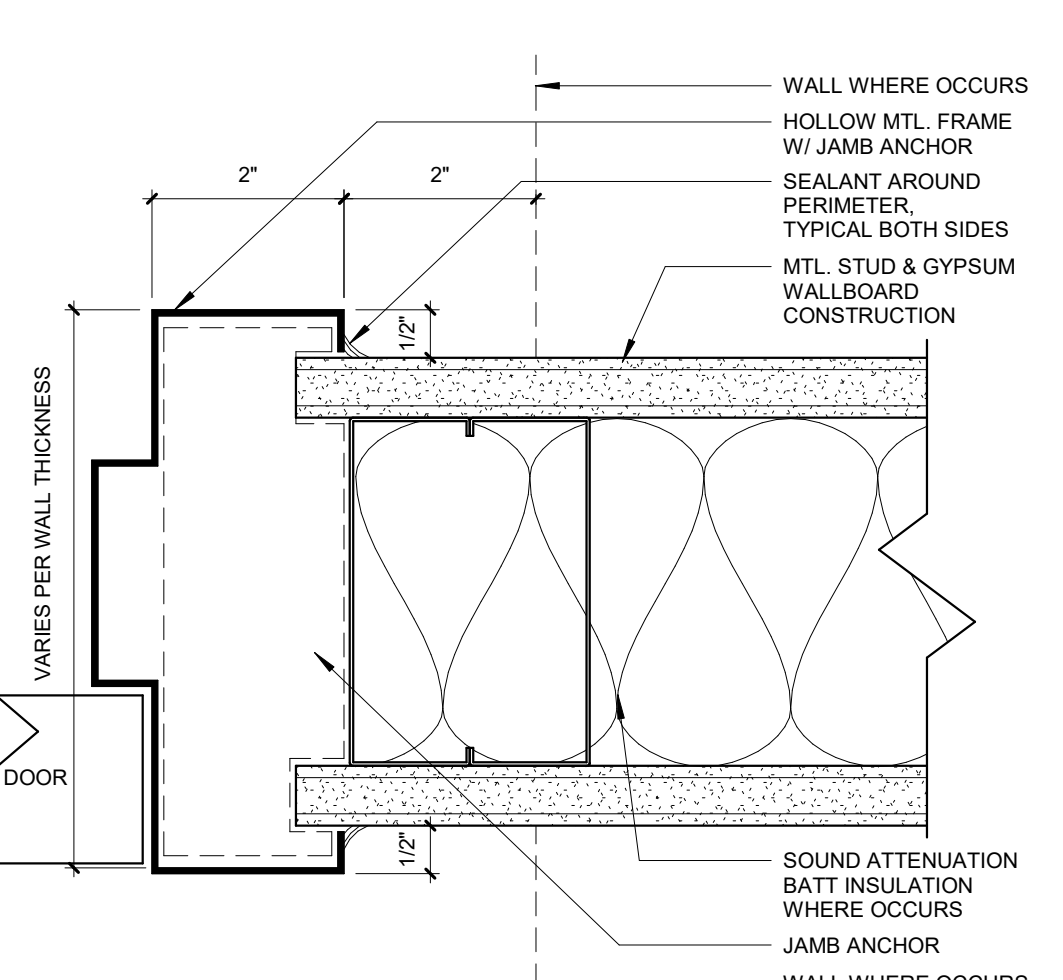
NOT IN SCOPE	NOT IN ARCHITECTURAL SCOPE
CONCRETE SLAB INFILL	EXISTING WALL
NEW WALL	EXISTING WALL
EXPANSION JOINT	EXISTING EXPANSION JOINT
DOOR No.	EXISTING DOOR
NEW DOOR	EXISTING DOOR



C1 TYPICAL HEAD- HOLLOW METAL DOOR FRAME
3" = 1'-0"



B1 TYPICAL JAMB- HOLLOW METAL DOOR FRAME
3" = 1'-0"



A1 TYPICAL HOLLOW METAL FRAME
6" = 1'-0"



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



A1 TYPICAL HOLLOW METAL FRAME
6" = 1'-0"



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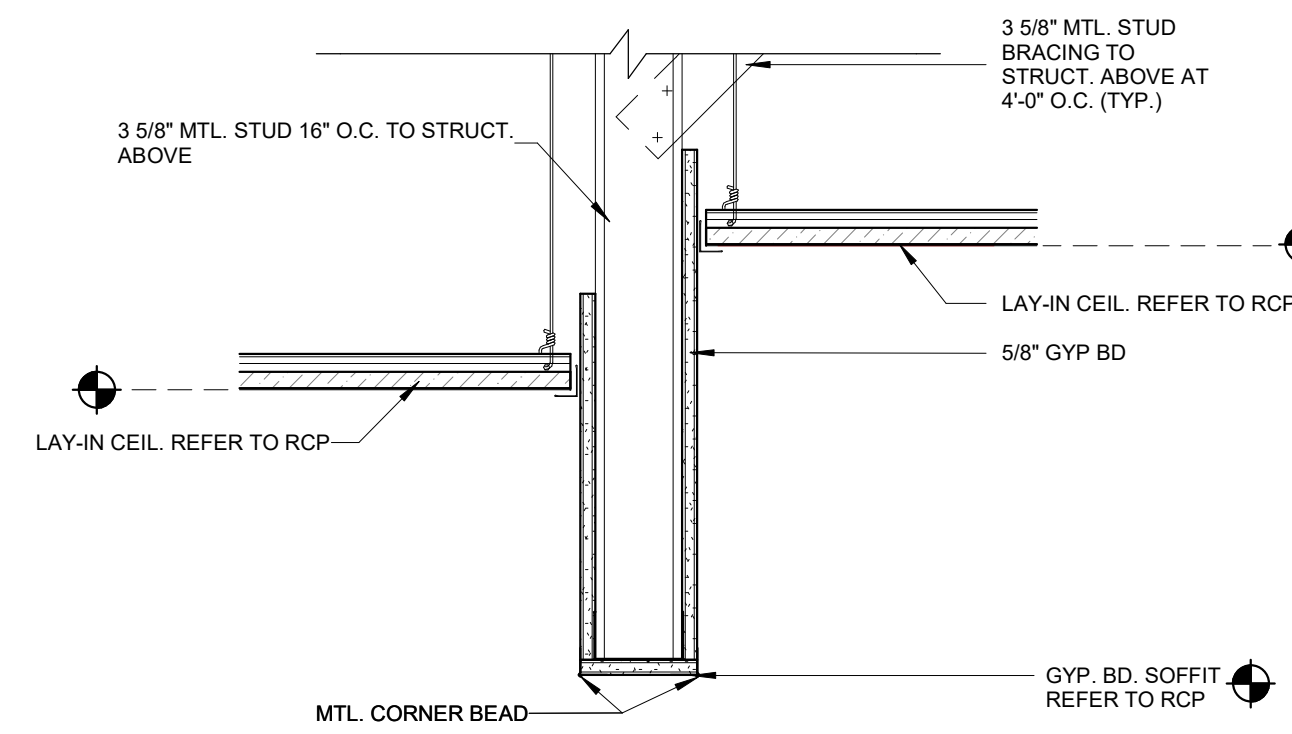


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Job Number 3-20030
Drawn By BR
Checked By AD

Revision		
Number	Date	Description

A2.1
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FIRST FLOOR PLAN



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

- ### 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	NEW SUPPLY RETURN IN NEW 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, LIGHTS, DIFFUSERS, ETC. RE: MEP & FINISH SCHEDULE.



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



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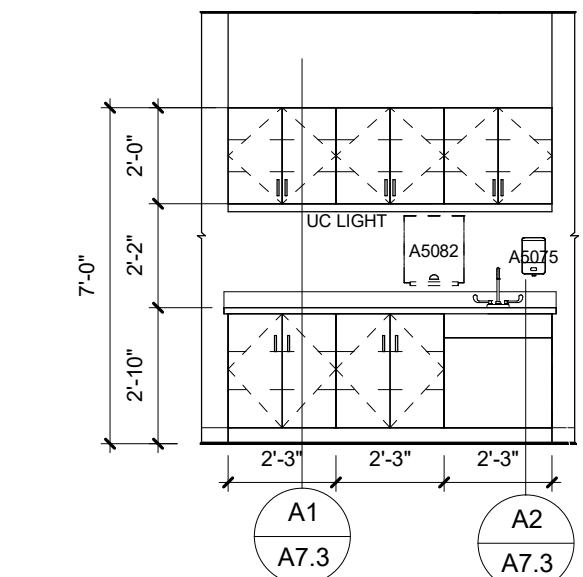
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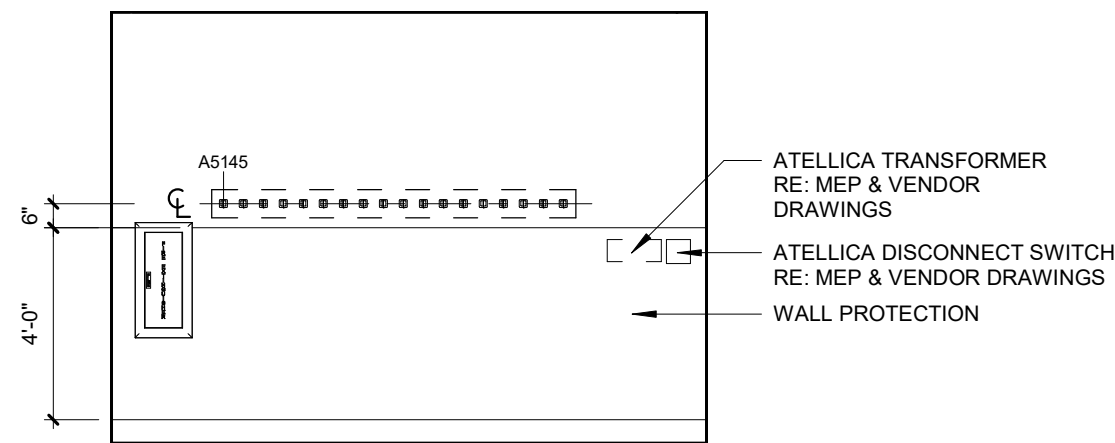
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Number Date Description

A3.1

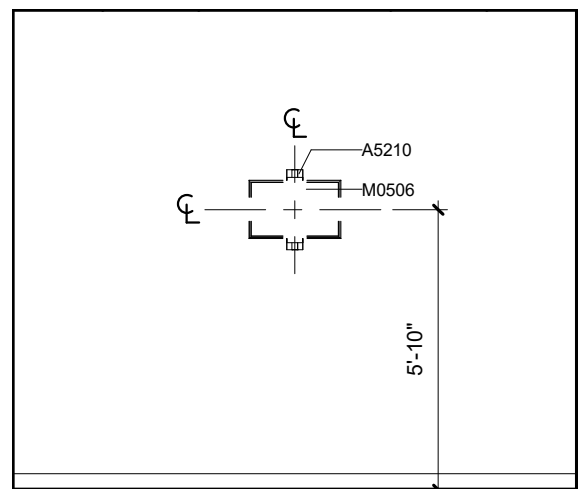
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FIRST FLOOR REFLECTED CEILING
PLAN



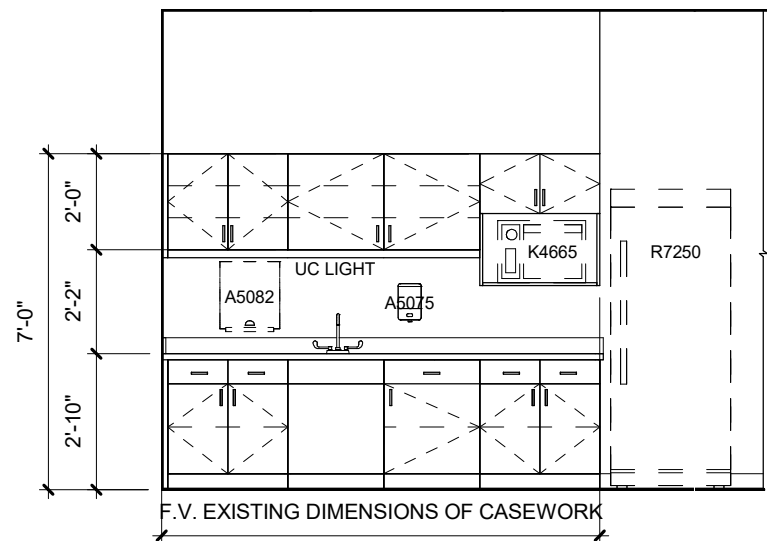
E6 LAB - WEST
1/4" = 1'-0"



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



E4 BREAK ROOM - SOUTH
1/4" = 1'-0"



E3 BREAK ROOM - EAST
1/4" = 1'-0"

INTERIOR FINISH LEGEND

MARK	ITEM	MANUFACTURER	MODEL/ PATTERN	COLOR	SIZE	REMARKS
FLOOR						
CPT-2	CARPET	MANNINGTON	IMOSO	SOREL (43333)	24"x24"	INSTALLATION: MONOLITHIC
LVT-1	LUXURY VINYL TILE	AMTICO	REGENCY WALNUT	AROW8200	4'-12"x36"	STRAIGHT EDGE ONLY; INSTALLATION: RANDOM
LVT-2	LUXURY VINYL TILE	AMTICO	CORINTHIAN MARBLE	AROSTV13	18"x18"	STRAIGHT EDGE ONLY; INSTALLATION: RANDOM
BASE						
RWB-2	RESILIENT BASE	ROPPE	PINNACLE	#110 BROWN	4" COVE	-
WALL						
P-1	PAINT - EGGSHELL FINISH	SHERWIN WILLIAMS	-	SW7036 ACCESSIBLE BEIGE	-	FIELD PAINT
P-1A	PAINT - EPOXY FINISH	SHERWIN WILLIAMS	-	SW7036 ACCESSIBLE BEIGE	-	EPOXY PAINT
P-4	PAINT - SEMI-GLOSS FINISH	SHERWIN WILLIAMS	-	SW7509 TIKI HUT	-	HOLLOW METAL DOOR FRAME PAINT
P-5	PAINT - EGGSHELL FINISH	SHERWIN WILLIAMS	-	SW7007 CEILING BRIGHT WHITE	-	CEILING 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	C/S ACRYOVYN	SM-20MM-ACRYOVYN-4000	#858 PUMICE	3" WING	ABOVE BASE TO 48" AFF.
WP-2	WALL PROTECTION	C/S ACRYOVYN	ACRYOVYN 4000	#858 PUMICE	240" THICK, 4X10 SHEETS	INSTALL 48" AFF.
CEILING						
ACT-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				CASEWORK				UPPER CABINETS	CEILING	NOTES
				NORTH	EAST	SOUTH	WEST	BASE CABINET	COUNTERTOPS	SINK	ETR			
1A007B	LAB STORAGE	LVT-2	RWB-1	P-1/WP-2	P-1/WP-2	P-1/WP-2	P-1/WP-2	-	-	-	ETR	-	ETR	1, 2
1A041D	BREAK ROOM	LVT-1	RWB-1	P-1	P-1	P-1	P-1	-	-	-	ETR	-	ETR	
1A041E	SUPERVISOR'S OFFICE	CPT-1	RWB-1	P-1	P-1	P-1	P-1	-	-	-	ETR	-	ETR	
1A041F	SHARED OFFICE	CPT-1	RWB-1	P-1	P-1	P-1	P-1	-	-	-	ETR	-	ETR	
1A041M	LAB	ETR	ETR	ETR/WP-2	ETR/WP-2	ETR	ETR/WP-2	MT-1	CRW-1	SST	MT-1	ETR	-	

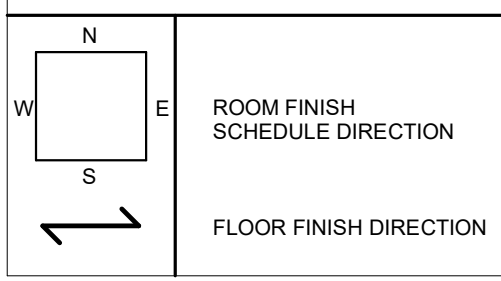
ROOM FINISH SCHEDULE NOTES

- CEILING TO BE EXISTING TO REMAIN. PATCH AND REPAIR AS REQUIRED FOR NEW CONSTRUCTION.
- EXISTING CASEWORK TO BE RELOCATED. RE: FLOOR PLAN & DEMO PLAN.

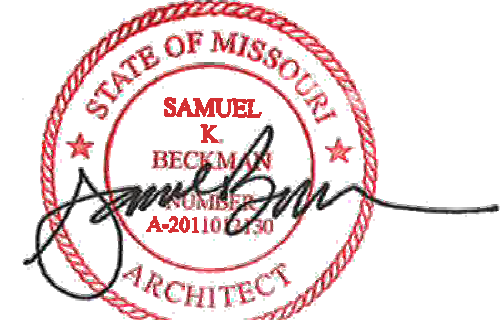
GENERAL FINISH NOTES

- 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 MANUFACTURERS 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.

FINISH FLOOR PLAN LEGEND



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



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Missouri: #00127265



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

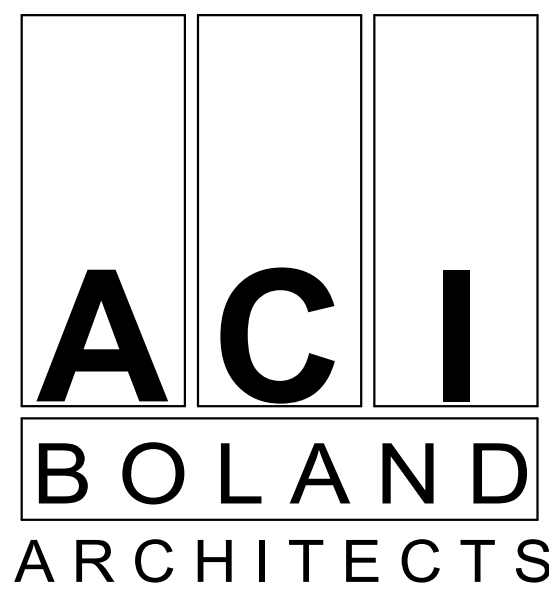
Revision
Number Date Description

A4.1

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FIRST FLOOR FINISH PLAN, FINISH
SCHEDULE & LEGEND



10/09/13
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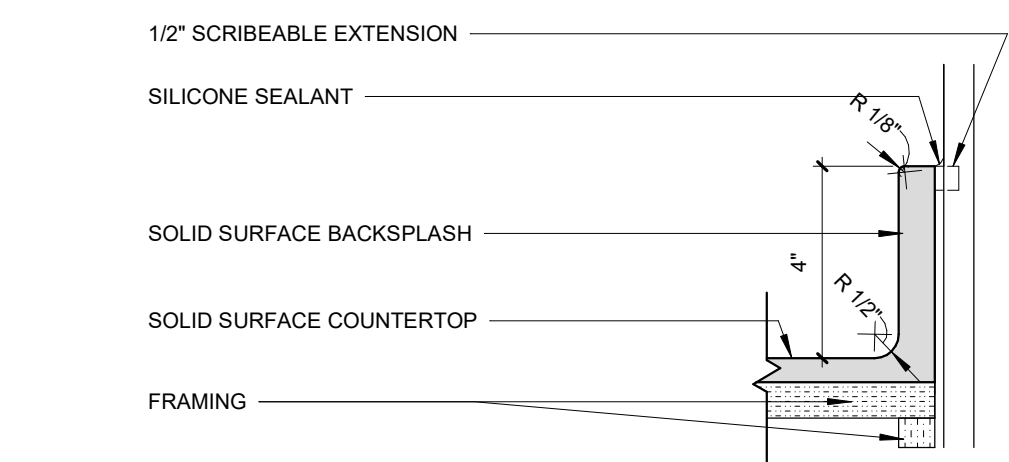
LAB REMODEL
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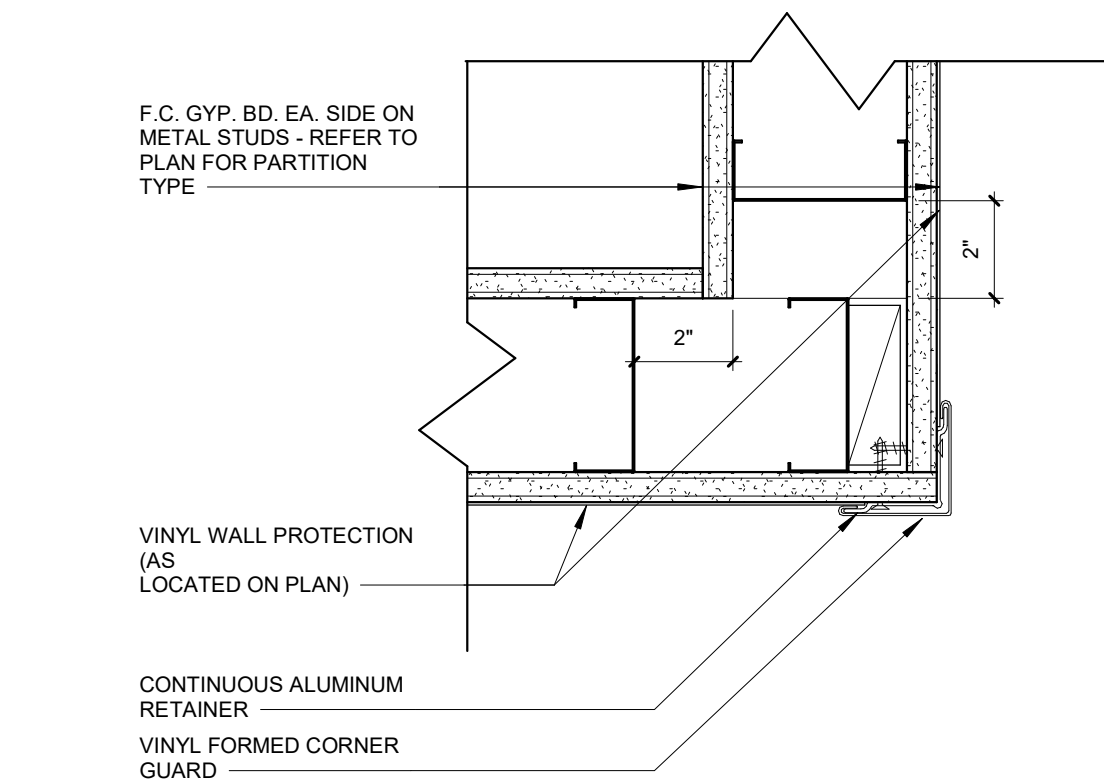
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Number Date Description

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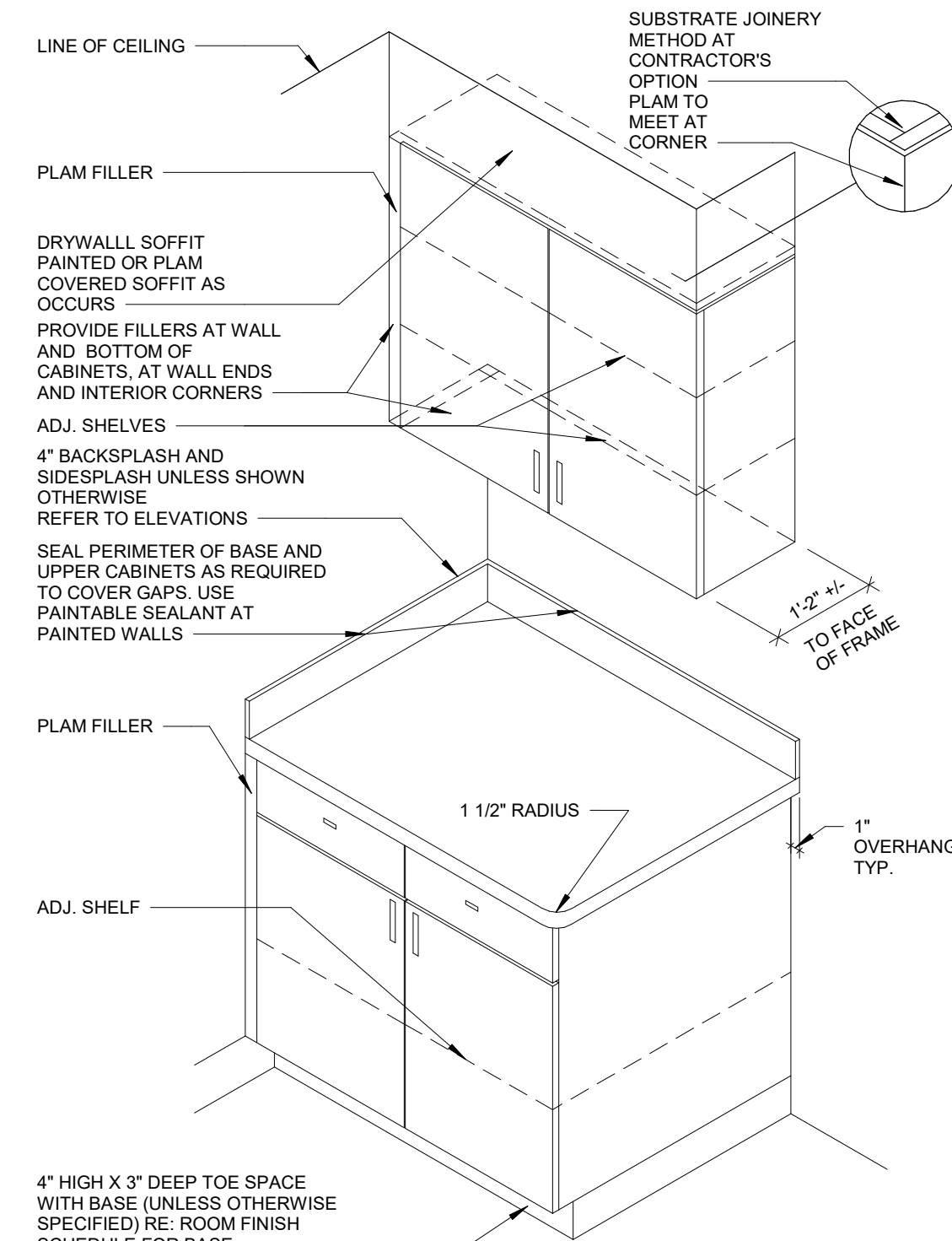
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INTERIOR DETAILS



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

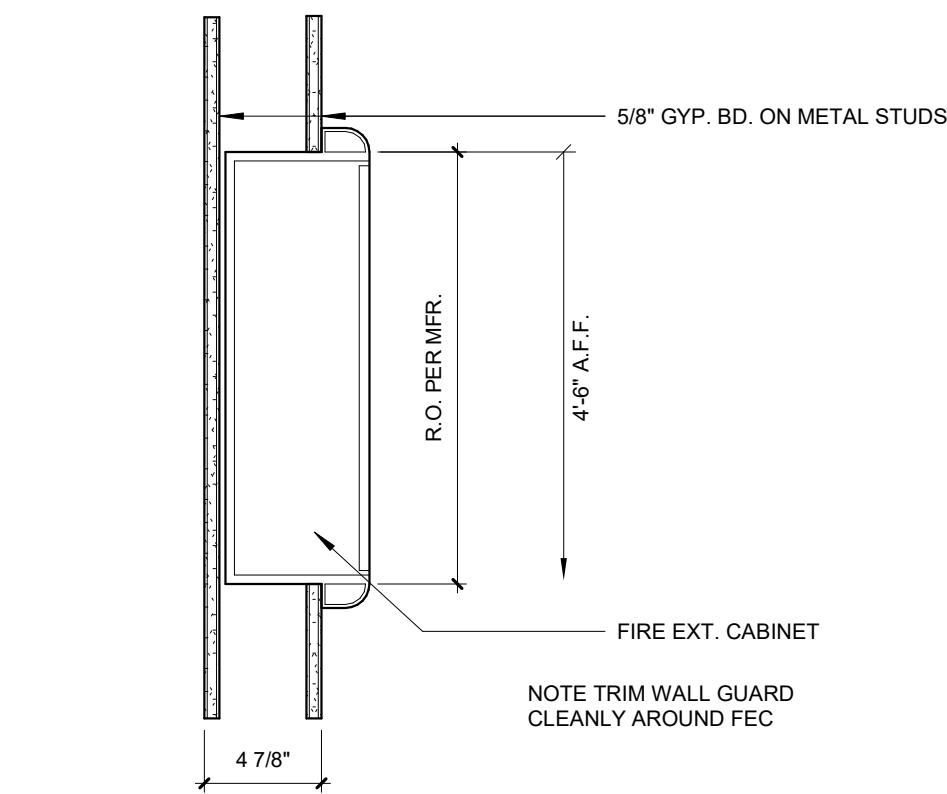


D2 TYPICAL SINGLE VINYL CORNER GUARD
3" = 1'-0"

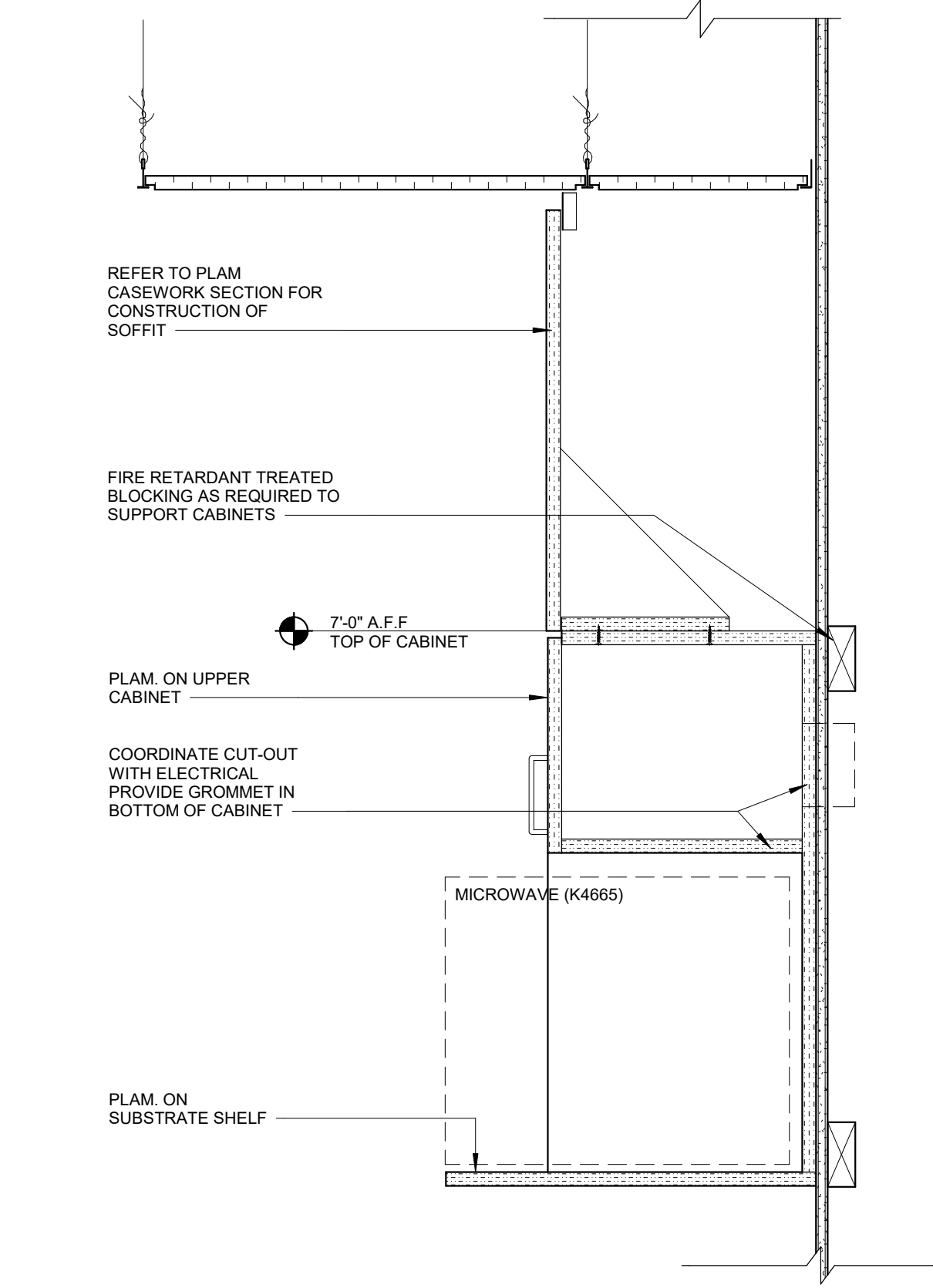


- TYP. CABINET NOTES:**
1. PROVIDE PLAM FILLER WHERE CABINETS BUTT UP TO WALLS.
 2. ALL COUNTERTOPS HAVE A 4" BACKSPLASH (MATERIAL TO MATCH COUNTERTOP) AND OUTSIDE CORNERS HAVE 1 1/2" RADIUS EXCEPT WHERE NOTED OTHERWISE.
 3. CASEWORK MFR. TO SUPPLY (2) - 2" [GROMMETS PER KNEESPACE. GROMMETS TO BE INSTALLED 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)

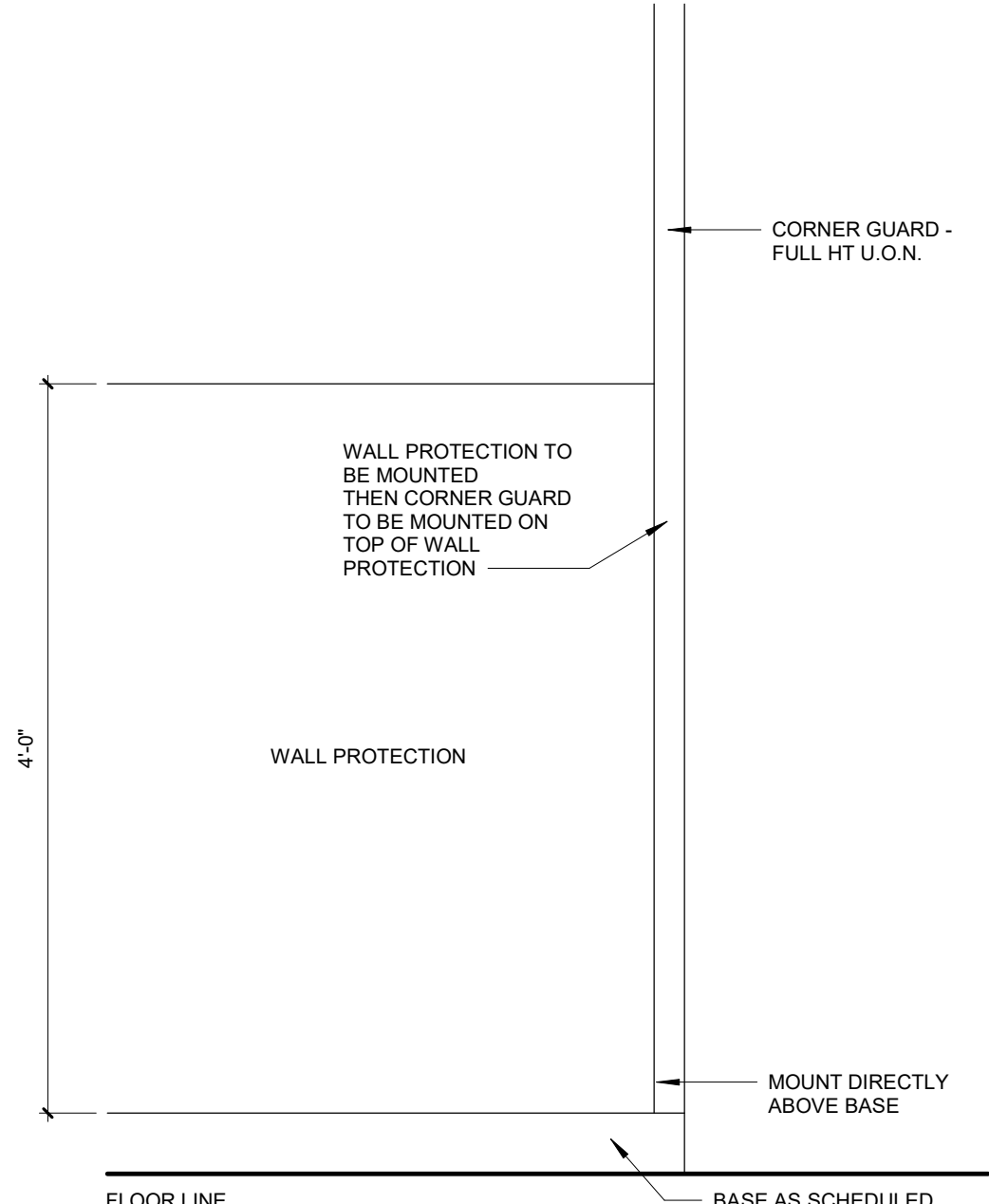
D1 CASEWORK ISOMETRIC
1 1/2" = 1'-0"



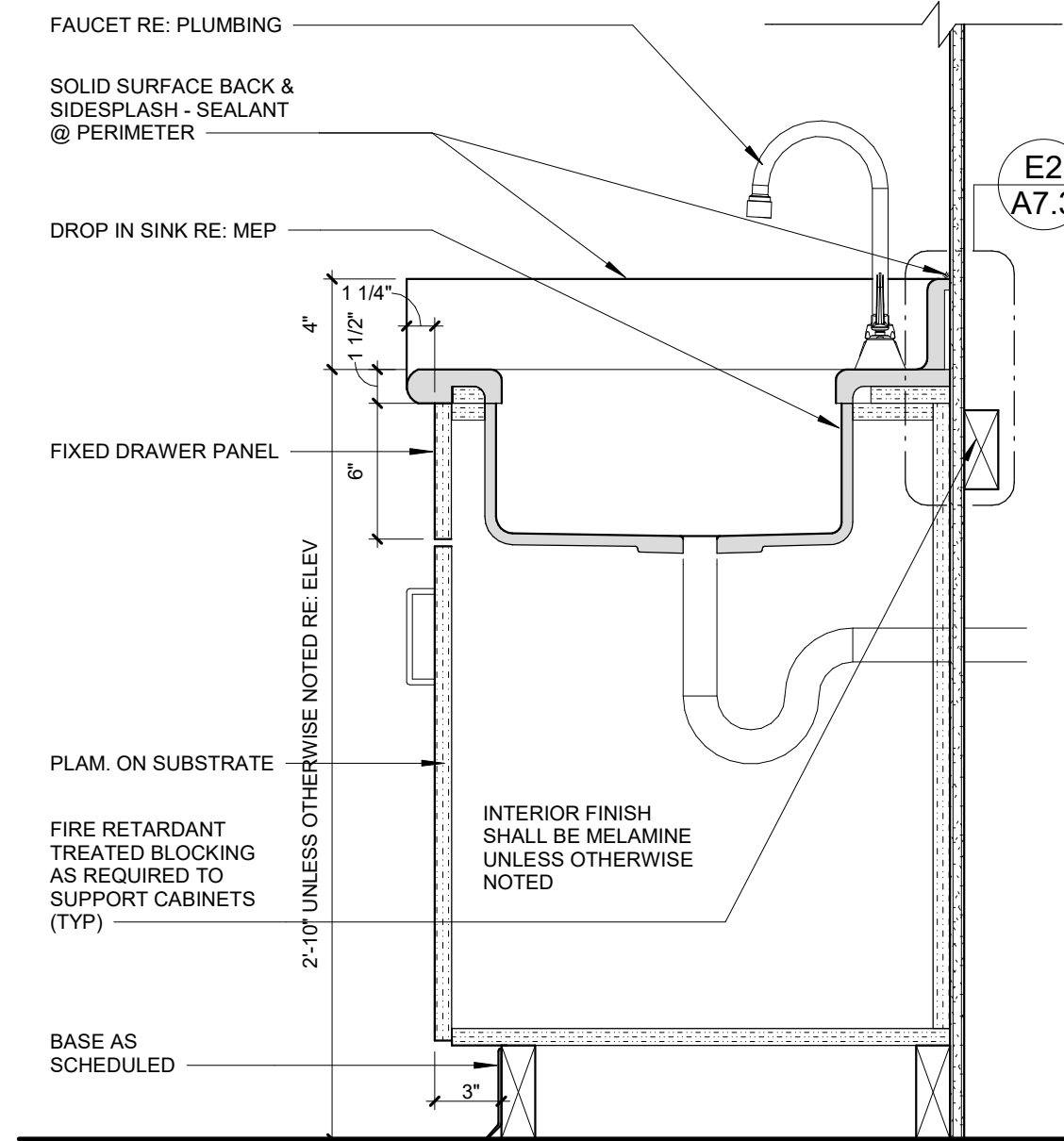
B3 SECTION - F.E.C. NON-RATED WALL CONDITION
1 1/2" = 1'-0"



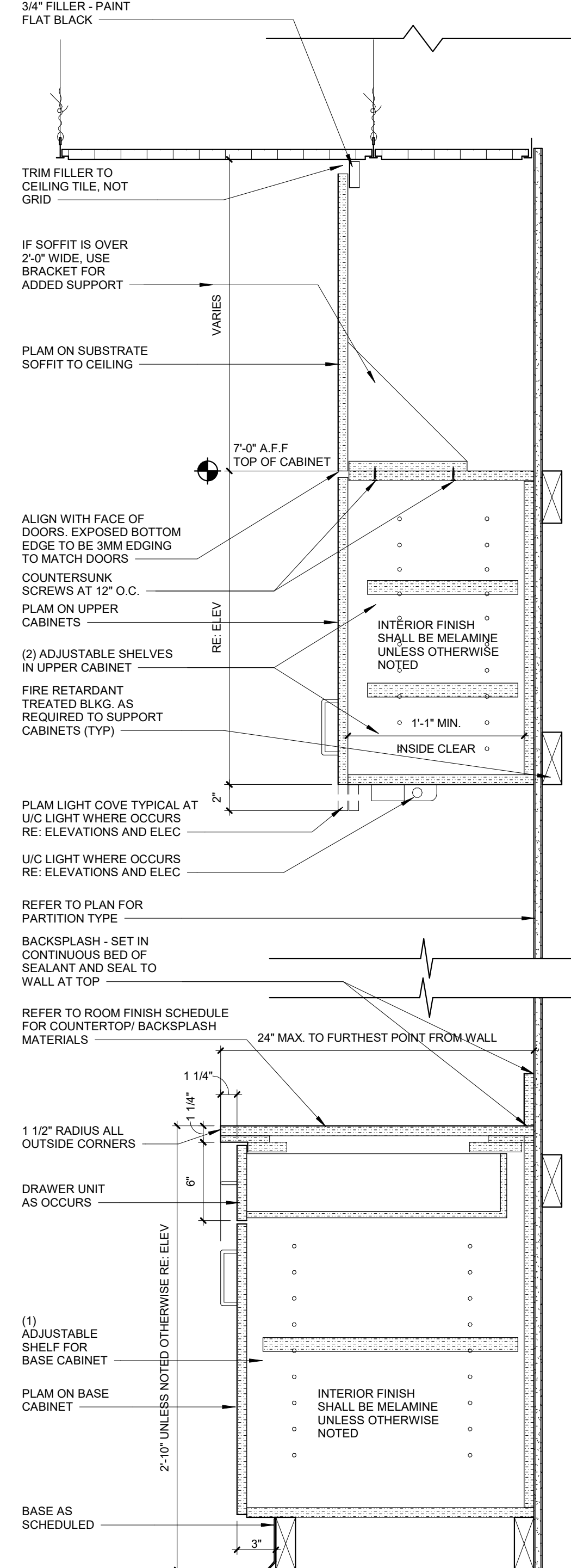
B2 WALL-MOUNTED MICROWAVE SHELF
1 1/2" = 1'-0"



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



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

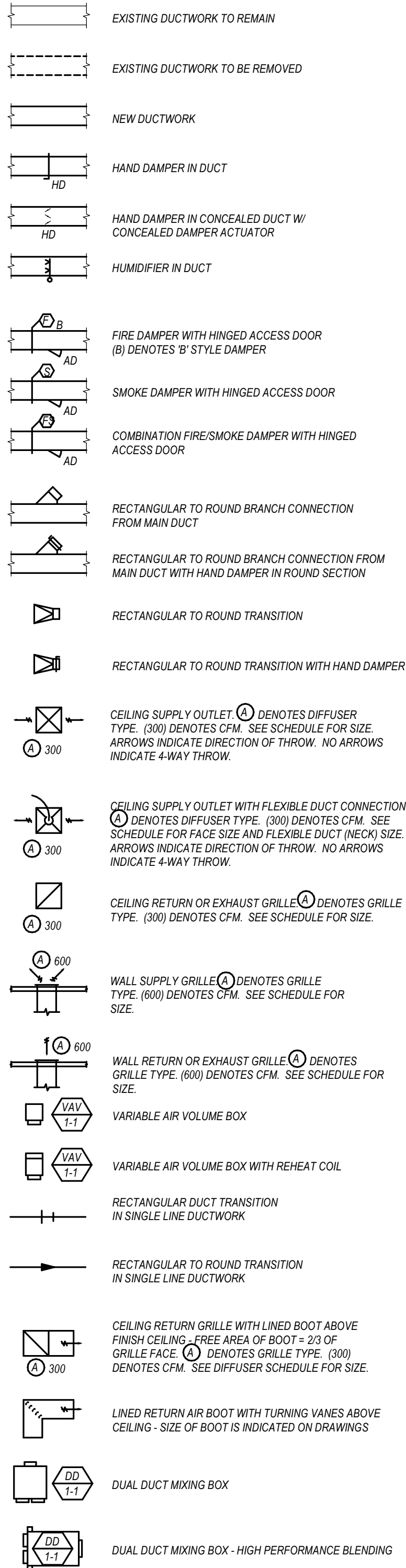


A1 CASEWORK SECTION
1 1/2" = 1'-0"

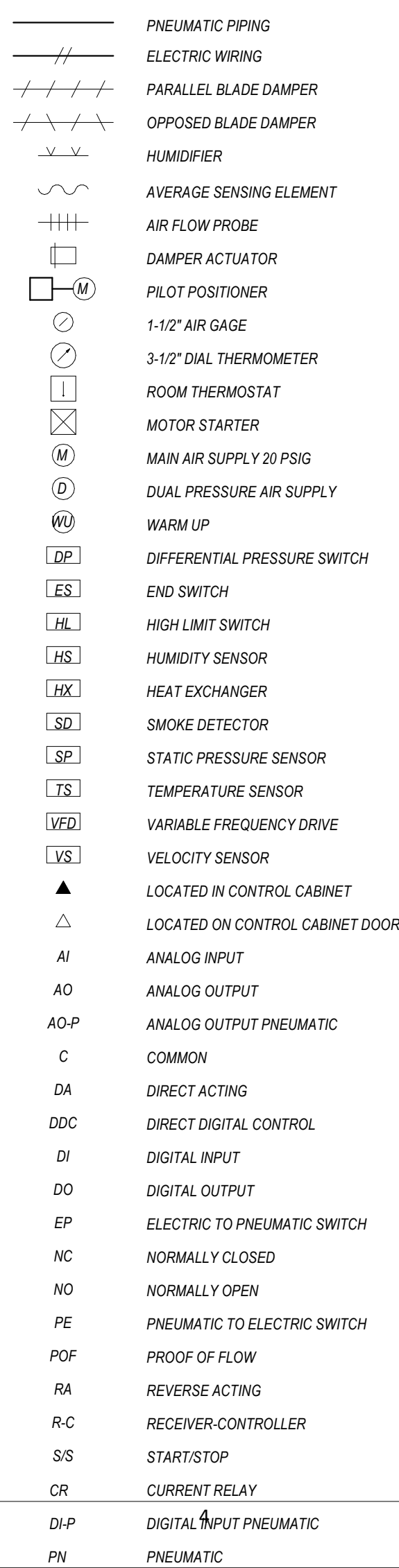
ABBREVIATIONS	
ABBREV.	DESCRIPTION
AAV	AUTOMATIC AIR VENT
ABAN	ABANDON
ABV	ABOVE
AC	AIR CONDITIONING UNIT
ACC	AIR COOLED CONDENSER
ACU	AIR COOLED CONDENSING UNIT
AD	ACCESS DOOR
AF	AFTER FILTER
AFB	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AMB	AMBIENT
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
AS	AIR SEPARATOR
ATM	ATMOSPHERE
ATMV	ATMOSPHERIC VENT
AWT	AVERAGE WATER TEMPERATURE
BB	BAR BARBER
BDD	BACKDRAFT DAMPER
BFWP	BOILER FEED WATER PUMP
BFW	BOILER FEED WATER
BHP	BRAKE 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	COOLING 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
CU FT	CUBIC FEET
CU IN	CUBIC INCHES
DB	DRY BULB
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
EWT	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
FTR	FINNED TUBE RADIATION
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GRD	GROUND
GPM	GALLON PER MINUTE
GRLL	GRILLE
GSMK	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
LWBT	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	TEAM 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

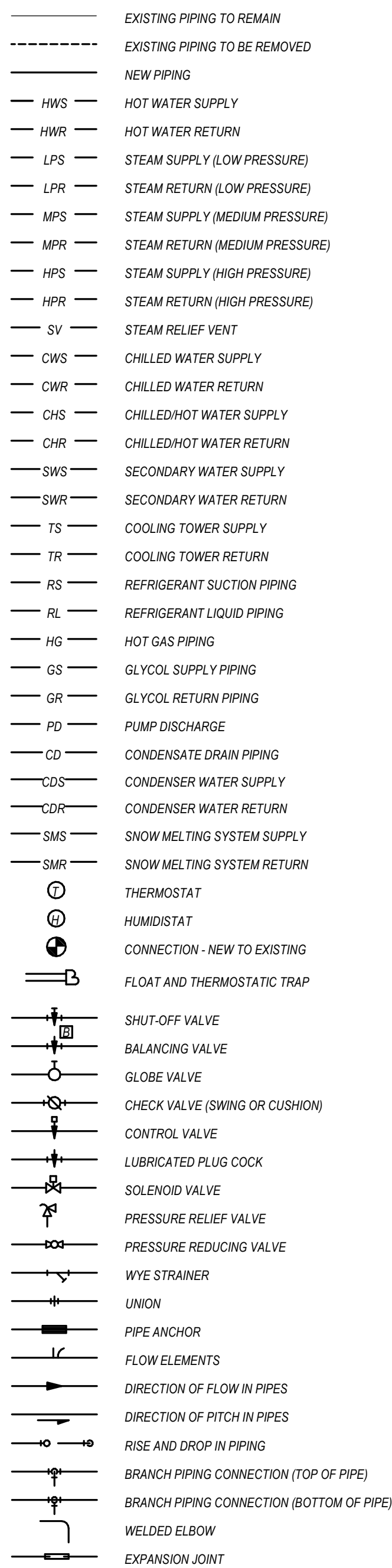
MECHANICAL SHEET METAL SYMBOLS



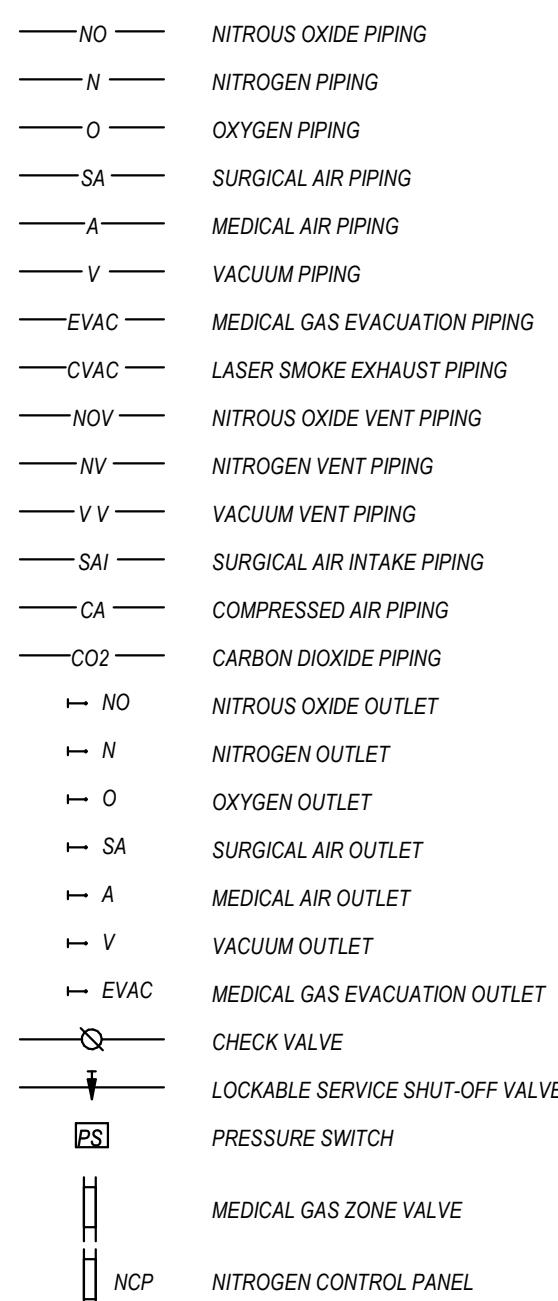
TEMPERATURE CONTROLS SYMBOLS



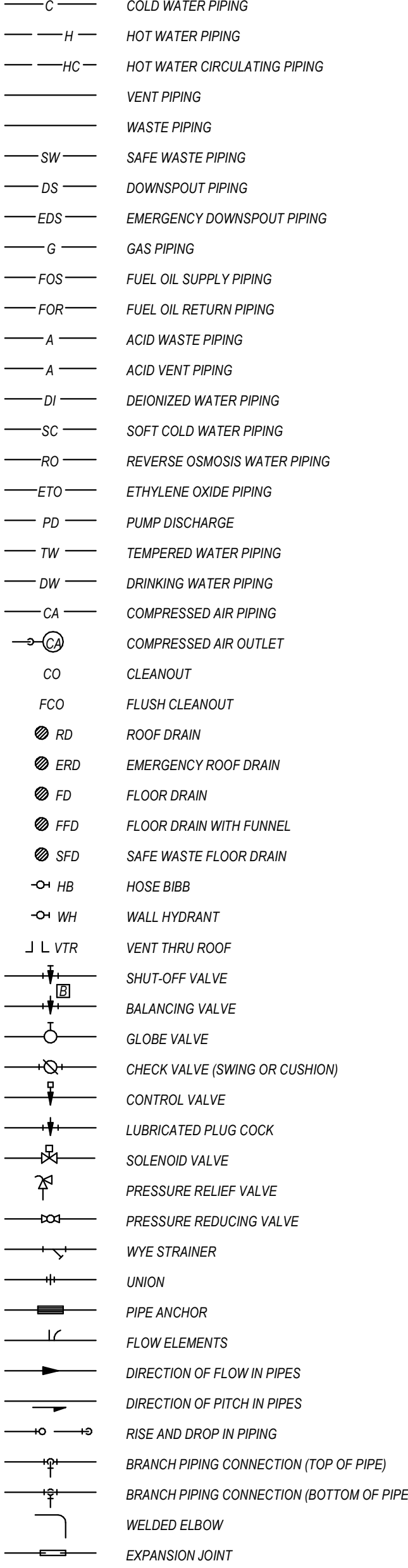
MECHANICAL PIPING SYMBOLS



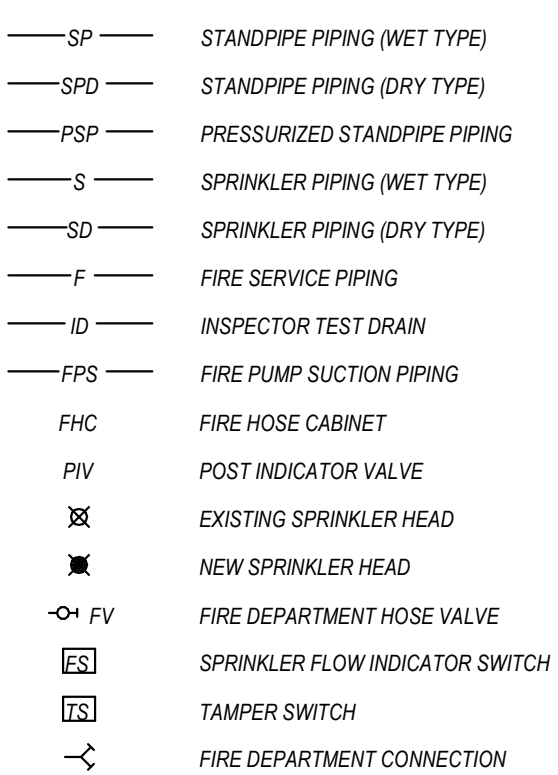
MEDICAL GAS SYMBOLS



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 OF 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.

STATE OF MISSOURI

BRUCE ELDON

REGISTERED PROFESSIONAL ENGINEER

BRUCE E. Hart

Missouri #E-22817

09/18/2020

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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

MJL

Checked By

BEH

Revision

Number

Date

Description

PM000

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SYMBOLS, ABBREVIATIONS, & GENERAL NOTES

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



GENERAL NOTES

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

KEYED NOTES 0

- 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. SWITCH 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

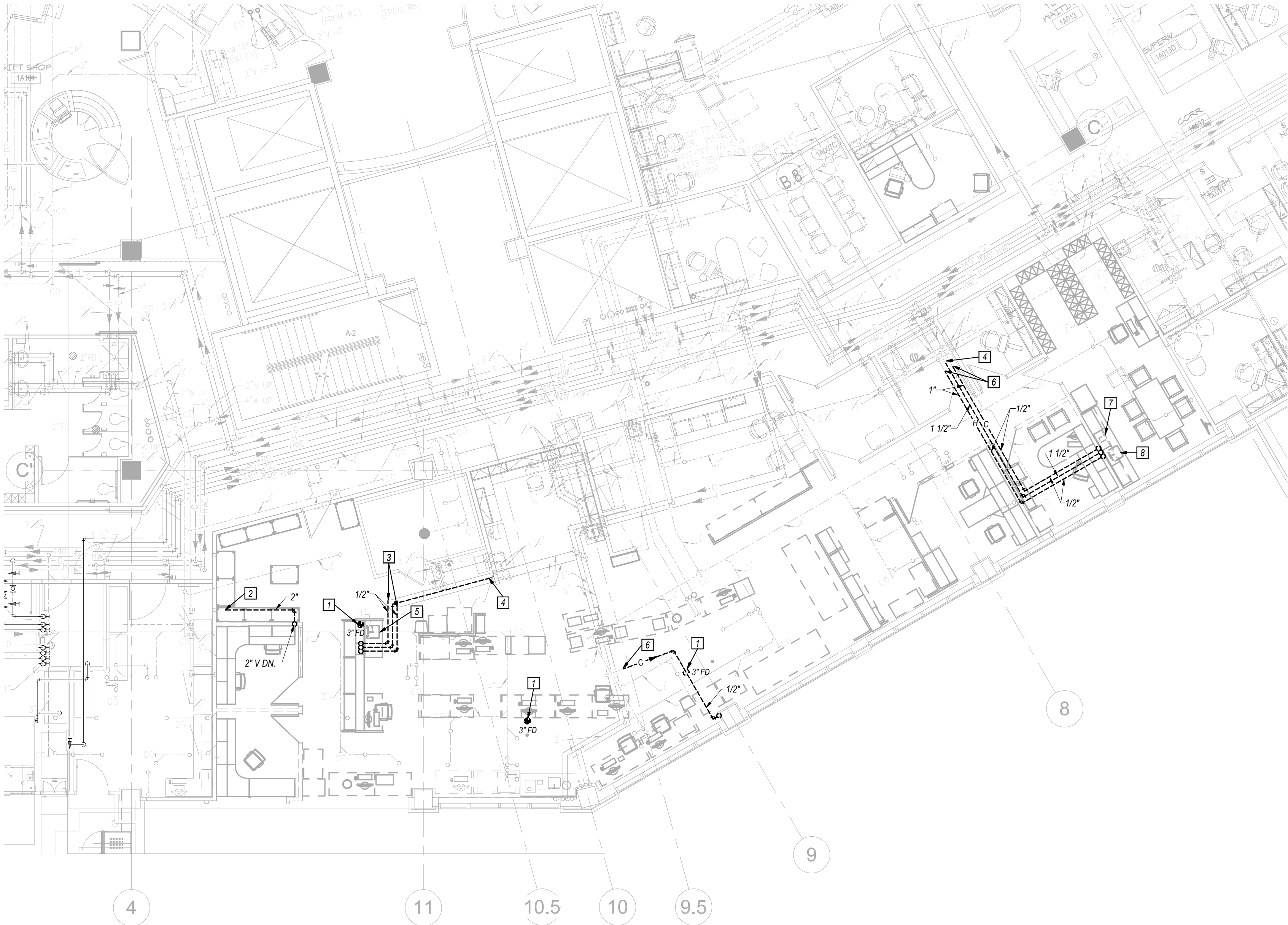
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DP2.0

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PLUMBING BASEMENT DEMOLITION

PLAN



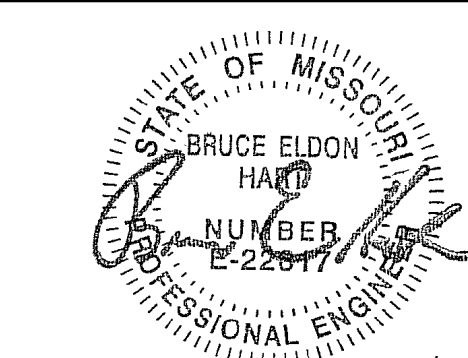
1 FIRST FLOOR PLUMBING DEMOLITION PLAN
1/8" = 1'-0"

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 0

- 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 DISCONNECT AND REMOVE PIPING SERVING COFFEE MAKER.
- 8 DISCONNECT PIPING FROM SINK TO ALLOW SINK AND CASEWORK TO BE RELOCATED. RE: ARCHITECTURAL. REMOVE WASTE PIPING DOWN THRU SLAB AND PATCH SLAB AS SPECIFIED.



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64086

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

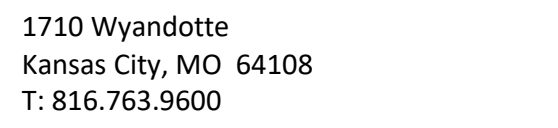
Revision
Number Date Description

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PLUMBING FIRST FLOOR
DEMOLITION PLAN

Bruce E. Hart
Missouri #E-22817



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

- 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.



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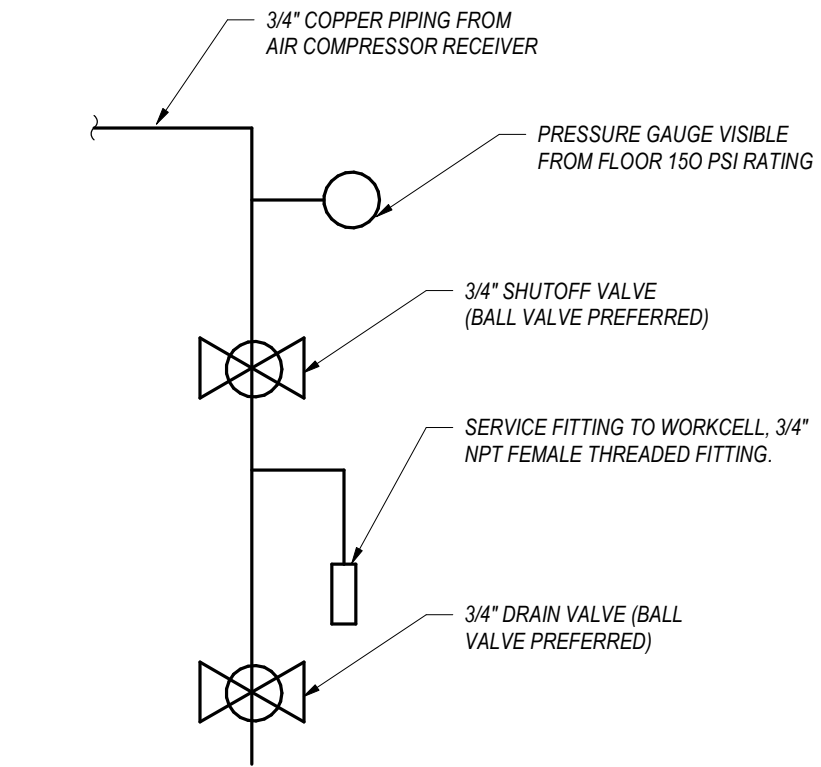
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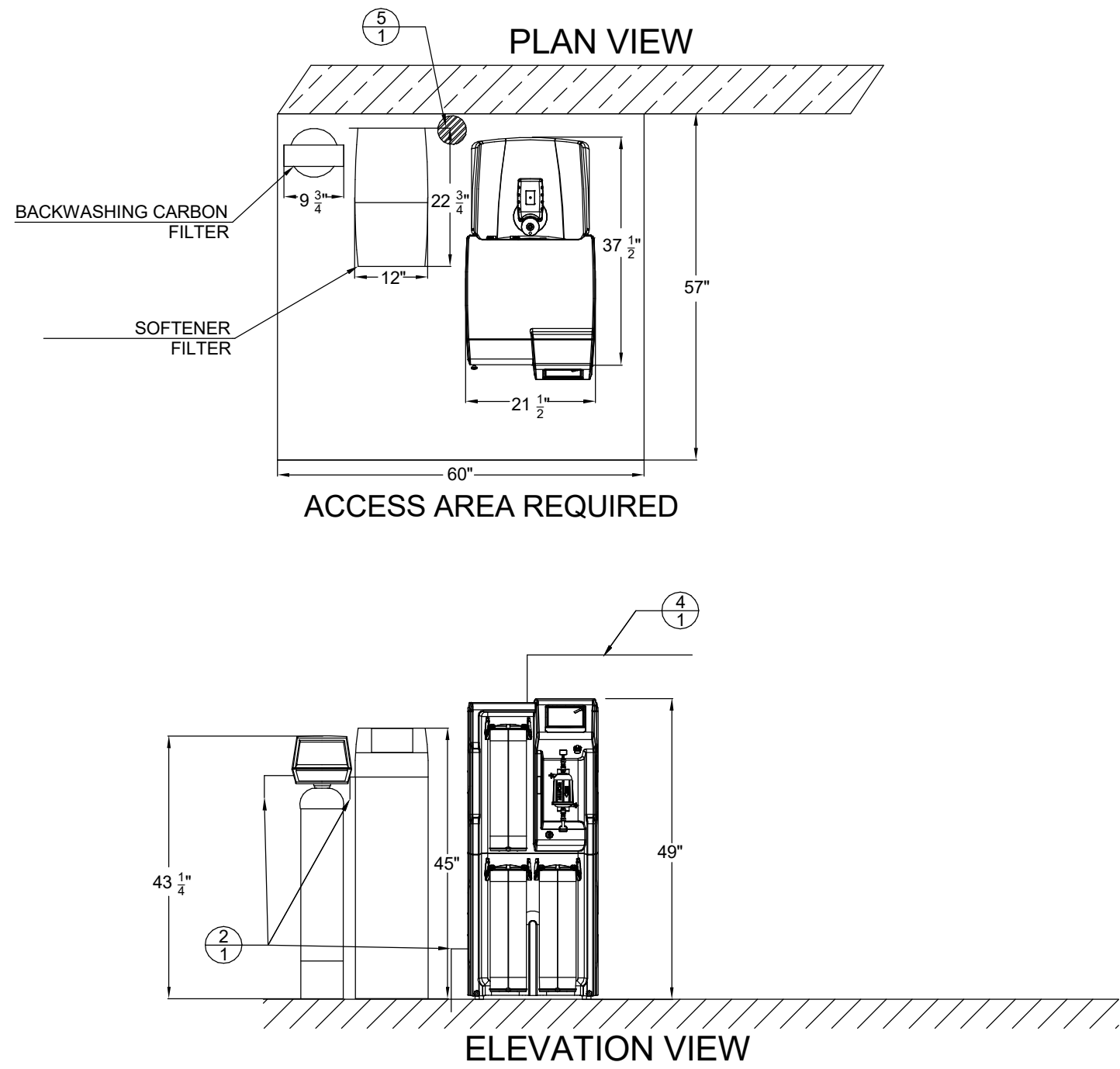
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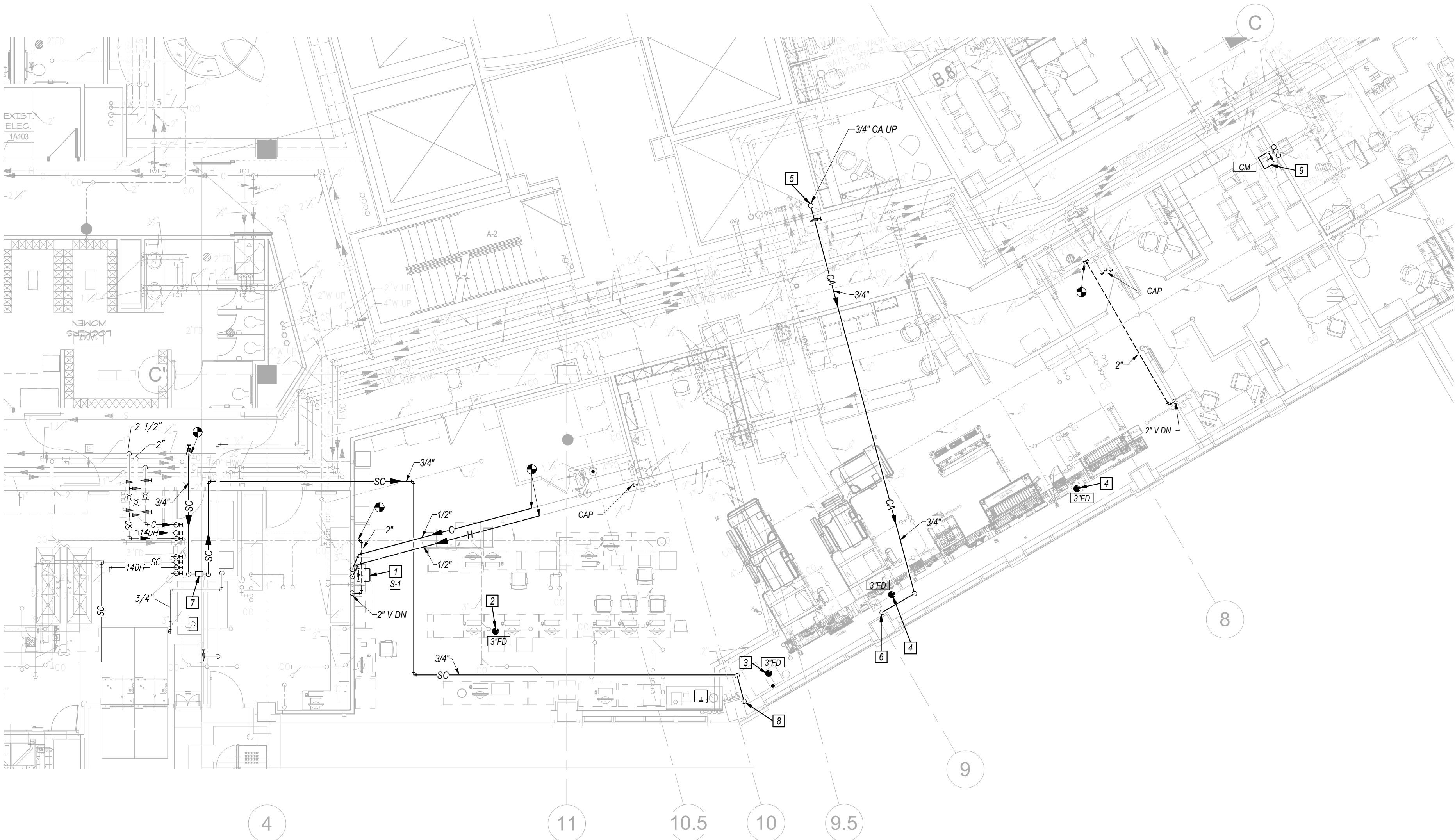
3
DETAIL OF COMPRESSED AIR PIPING AT
SYSTEM CONNECTION POINT
N.T.S.



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

INTERFACE CALL-OUT TABLE		
TAG	DESCRIPTION	LOCATION
1-1	Feed water source - provide 3/4\"/>	On wall, within 5 feet of system. If under a sink, provide 2\"/>
2-1	Reject from make-up system and pre-treatment	MilleporeSigma will run tubing from system to floor drain provided by contractor.
3-1	Not used.	
4-1	Distribution recirculating loop. MilleporeSigma 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.	MilleporeSigma will run tubing from system to floor drain provided by contractor.

PLUMBING FIXTURE SCHEDULE								
MARK	FIXTURE	DESCRIPTION	ACCESSORIES	MANFR AND MODEL NO.	WASTE	VENT	COLD	HOT
CM	COFFEE	ROUGH IN 1/2" COLD WATER	CUTOFF VALVE AND WATTS 1/80" BACK FLOW PREVENTER ON COLD SUPPLY.		0"	0"	1/2"	0"
S-1	LABORATORY CRITICAL AREA SINK	17"x20" 18 GAUGE NO. 302 STAINLESS STEEL SINGLE COMPARTMENT SINK WITH COVERED CORNERS. SELF-RIMMED 1/4"x6"x4" SATIN FINISH UNDERSIDE FULLY SOUND DEADENED	ELKAY NO. LK-8 C.P. BRASS GRID STRAINER AND 1-1/2" C.P. BRASS TAILPIECE. CHICAGO FAUCET NO. 885-377KXQ FAUCET, 4 CENTERS, NO. GND 5.38" SPOUT, NO. 317.4" WRIST 8.5" HANDLES AND 1/2" FLOW CONTROL DEVICE. DEARBORN NO. 510-17 GAUGE 1-1/2" 1/2" 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\"/>



STATE OF MISSOURI
BRUCE ELDON
HART
NUMBER
Professional Engineer
09/18/2020

Bruce E. Hart
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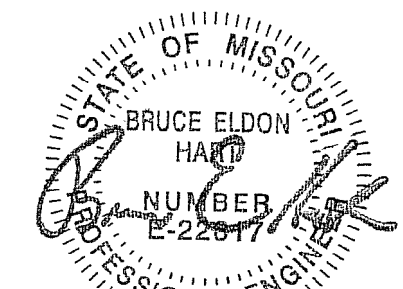
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Drawn By	MJL
Checked By	BEH

Revision		
Number	Date	Description

P2.1

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PLUMBING FIRST FLOOR PLAN,
SCHEDULE & DETAILS



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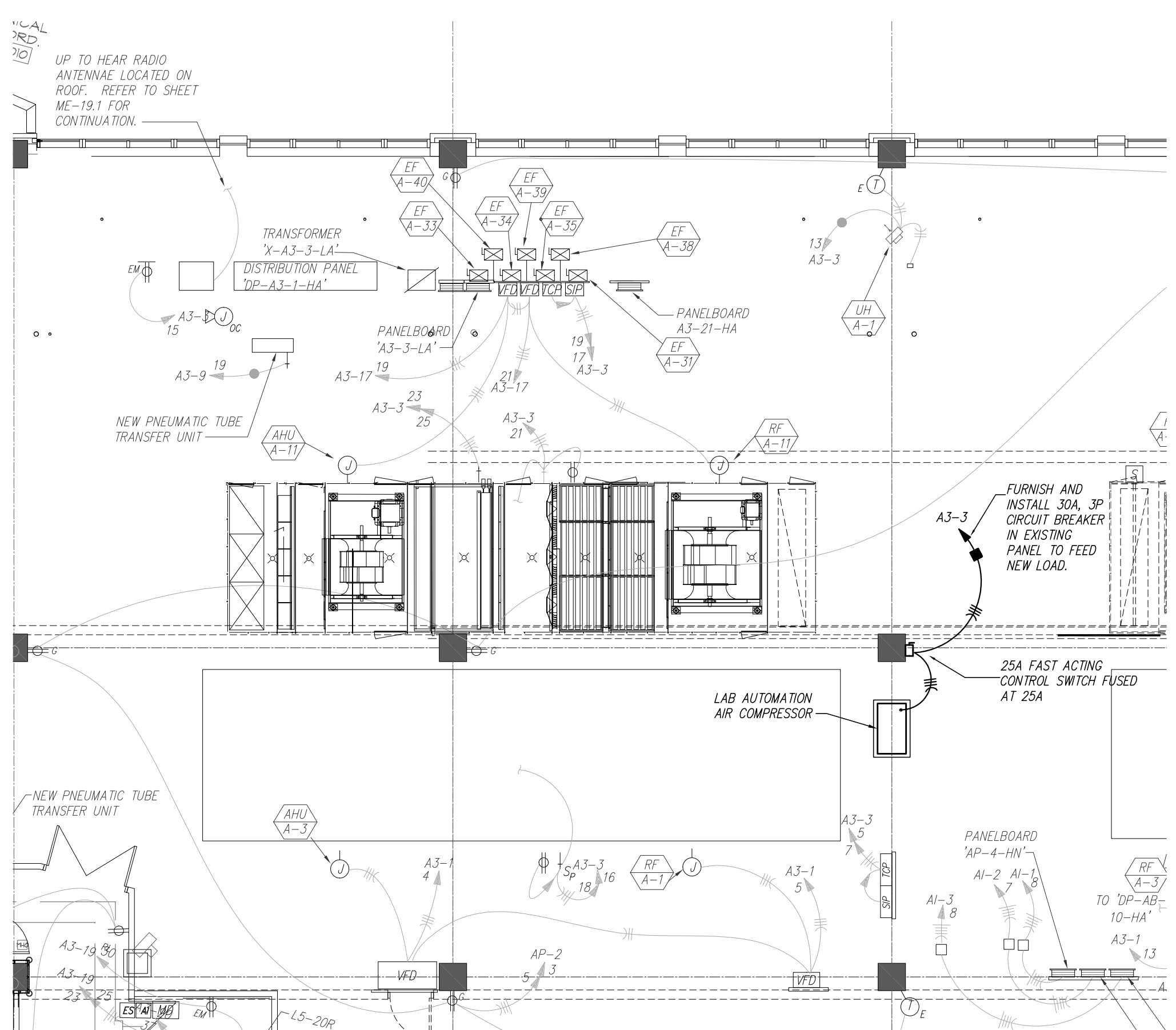
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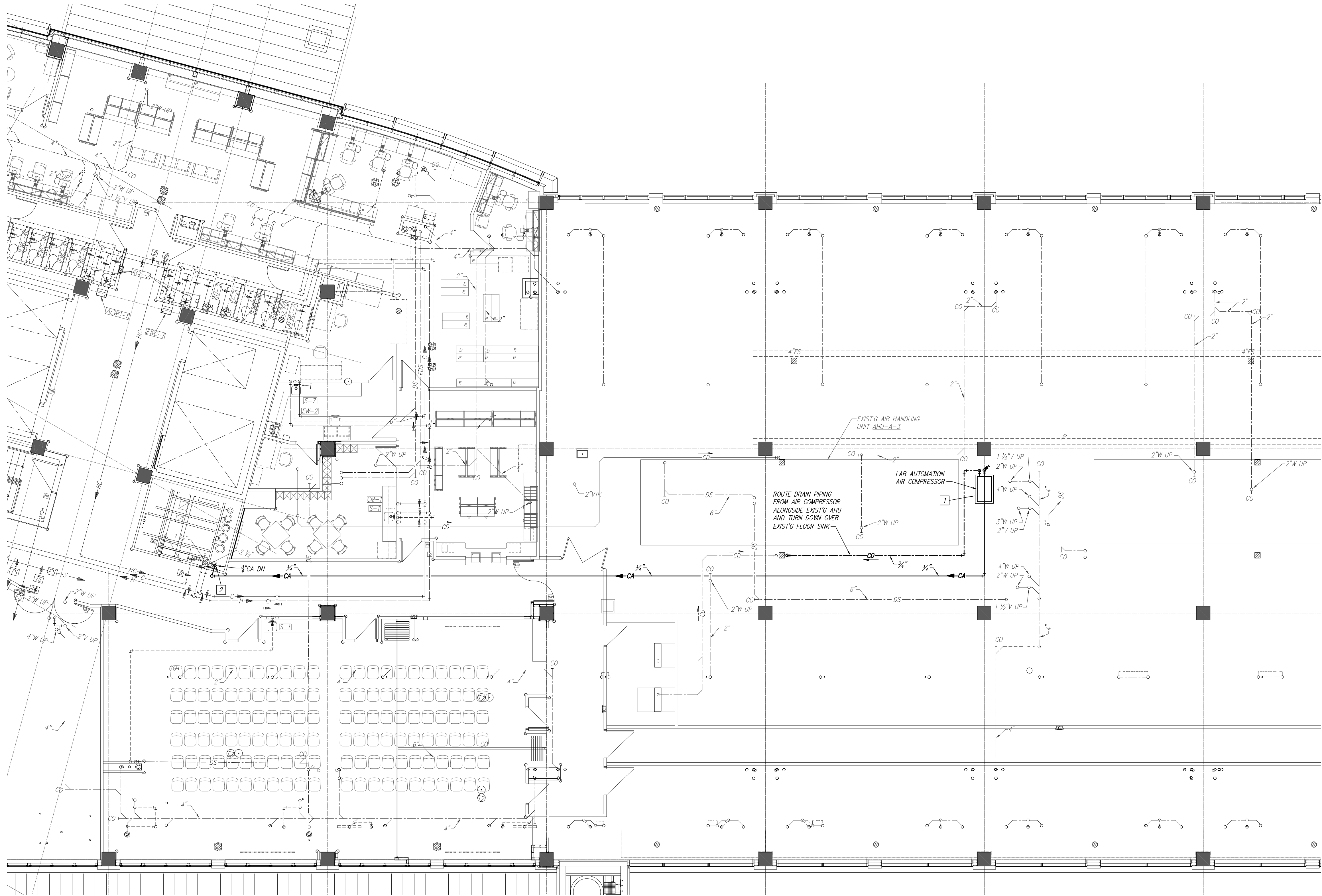
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PLUMBING AND ELECTRICAL
THIRD FLOOR PLANS



THIRD FLOOR ELECTRICAL PLAN

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



THIRD FLOOR PLUMBING PLAN

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



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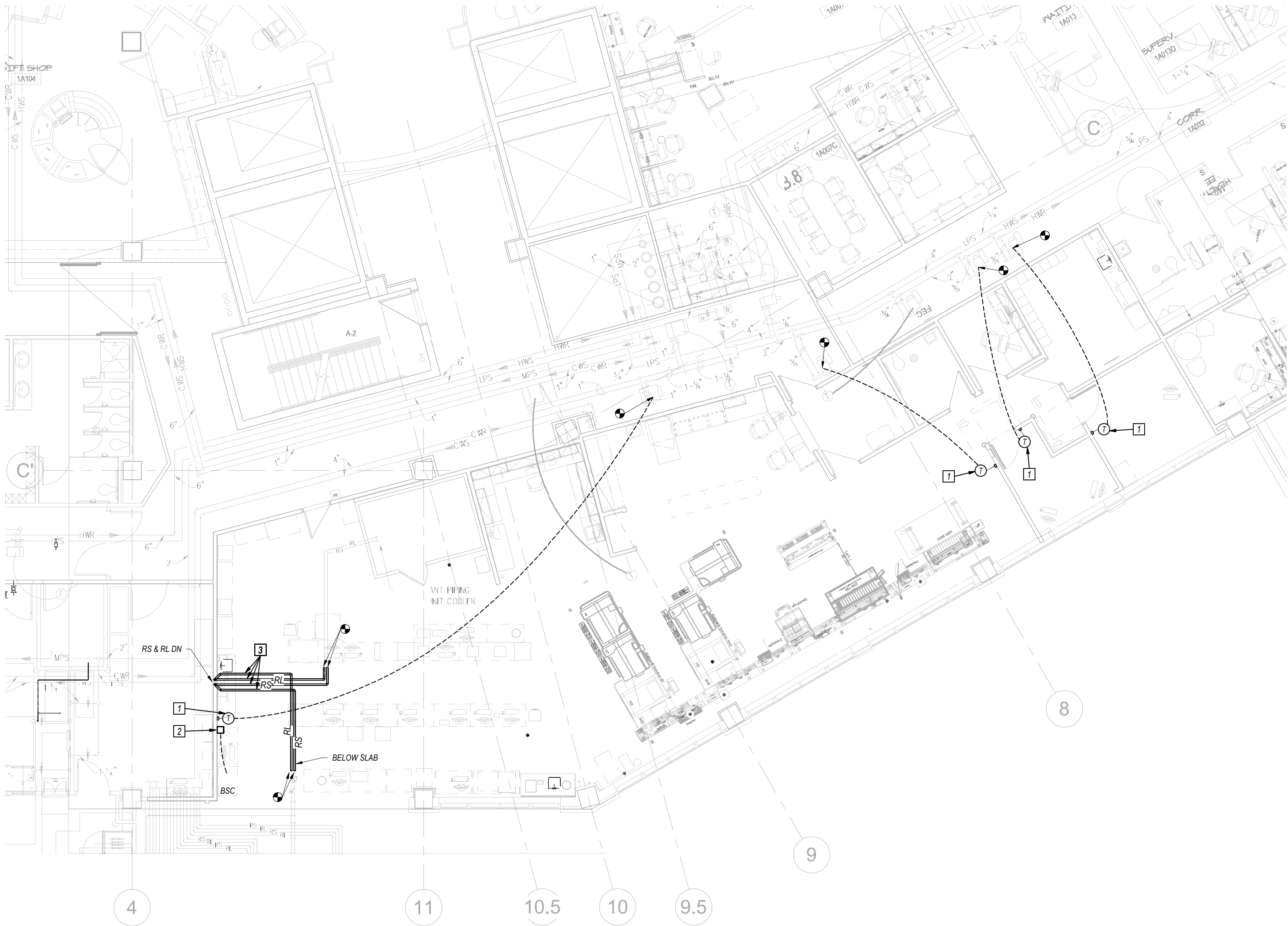
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- 1 NEW LOCATION FOR DIFFUSER THAT WAS DISCONNECTED DURING DEMOLITION
BALANCE TO AIRFLOW RATE (CFM) INDICATED.
- 2 TURN 10" RIGID EXHAUST DUCT DOWN THRU CEILING AND RE-INSTALL THE
STEEL METAL TRANSITION THAT WAS DISCONNECTED DURING DEMOLITION. TO
SERVE THE RELOCATED BIOLOGICAL SAFETY CABINET(BSC). INSTALL THE
TRANSITION DIRECTLY ABOVE THE TOP OUTLET OF THE BSC. WITH AS SMALL
AIR GAP TO MAKE AN "INDIRECT" CONNECTION.
- 3 ADJUST EXIST'G EXHAUST AIR VALVE TO AIRFLOW RATE AS REQUIRED FOR THE
EXIST'G BSC (300 CFM OR AS REQUIRED BY BSC MANUFACTURER).
- 4 ADJUST EXIST'G SINGLE DUCT BOX TO NEW MAX. AIRFLOW RATE OF 635 CFM.
- 5 ADJUST EXIST'G SINGLE DUCT BOX TO NEW MAX. AIRFLOW RATE OF 300 CFM.
- 6 ADJUST EXIST'G SINGLE DUCT BOX TO NEW MAX. AIRFLOW RATE OF 650 CFM.

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



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
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Revision		
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MP2.1

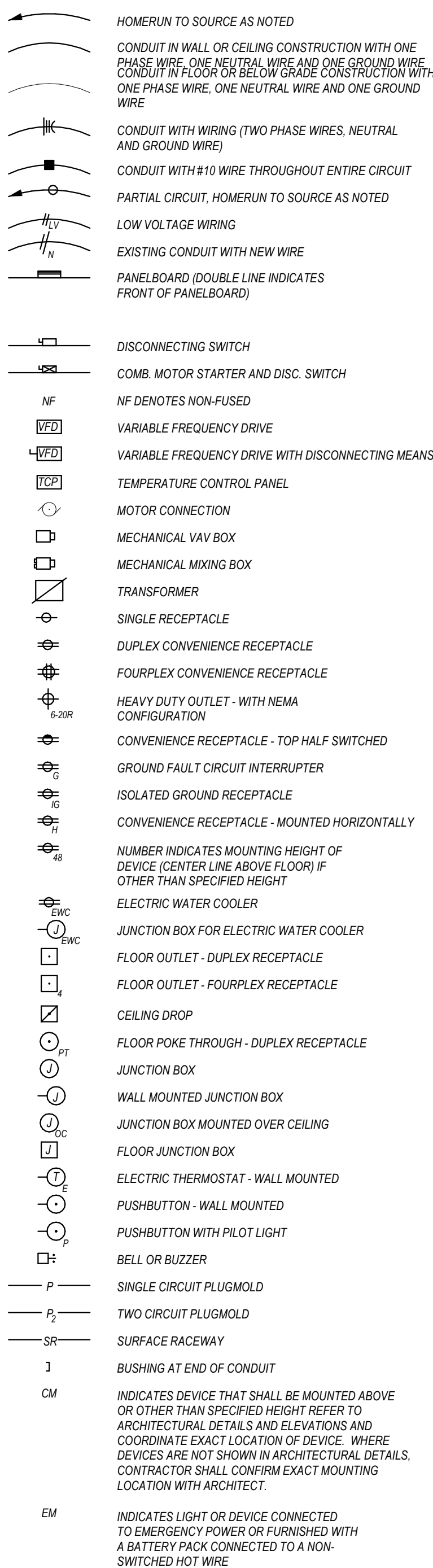
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MECHANICAL PIPING FIRST FLOOR
PLAN

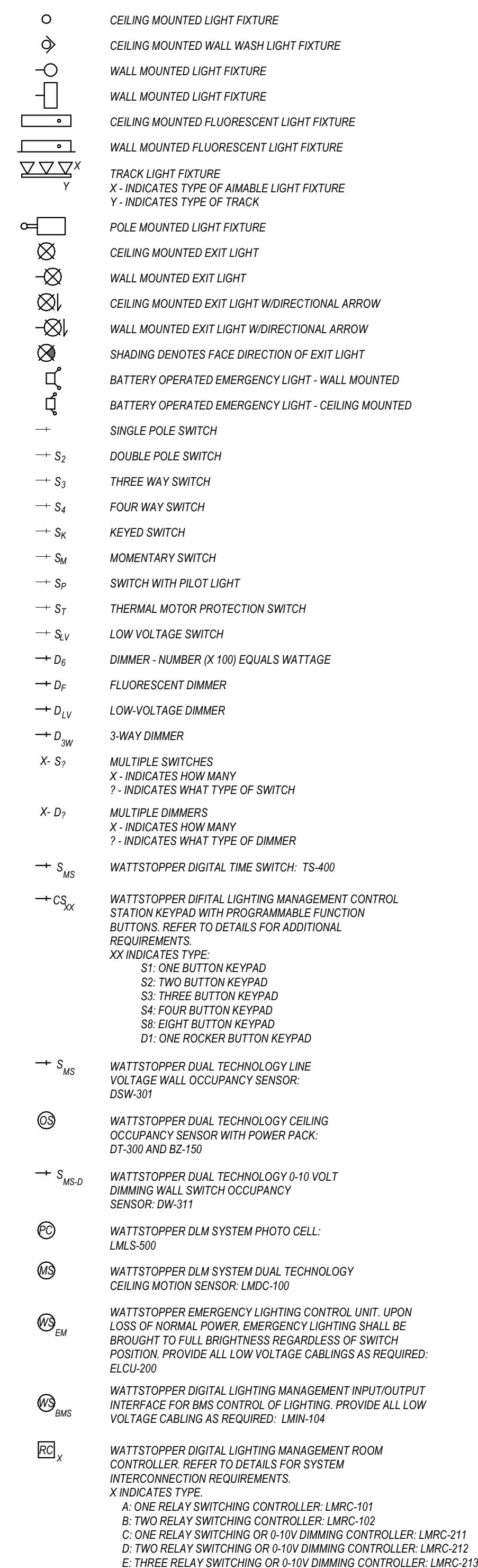
ELECTRICAL SYMBOLS LIST

(ALL MAY NOT APPLY)

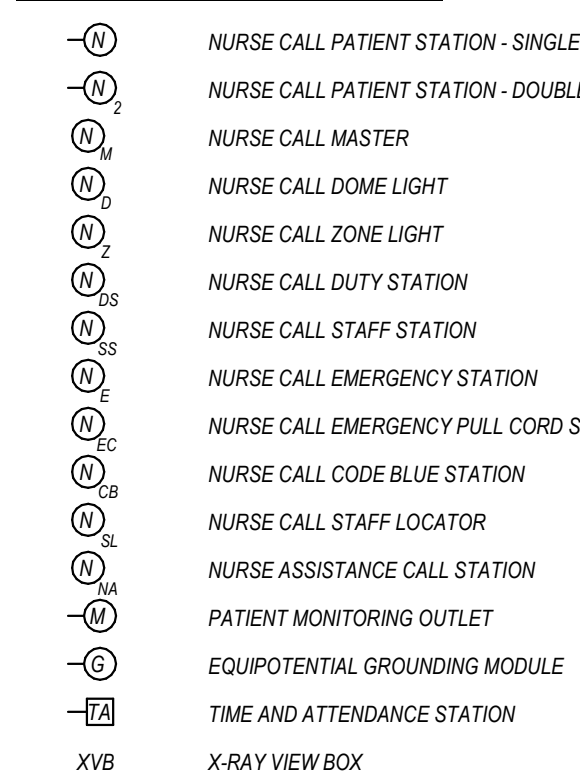
POWER SYMBOLS



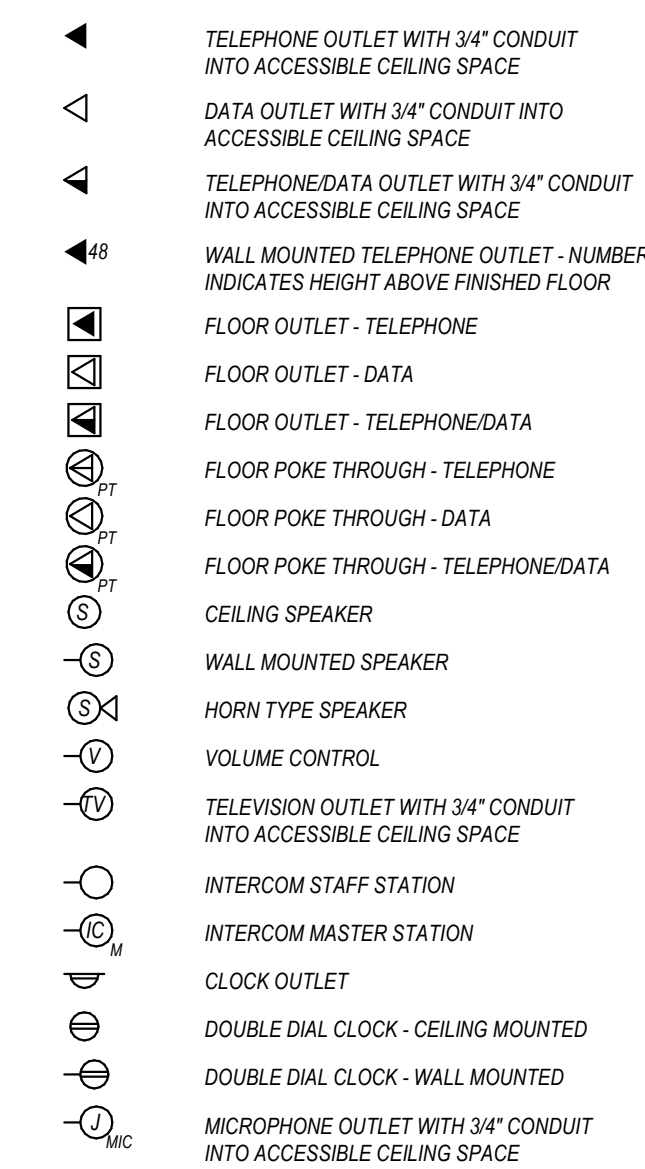
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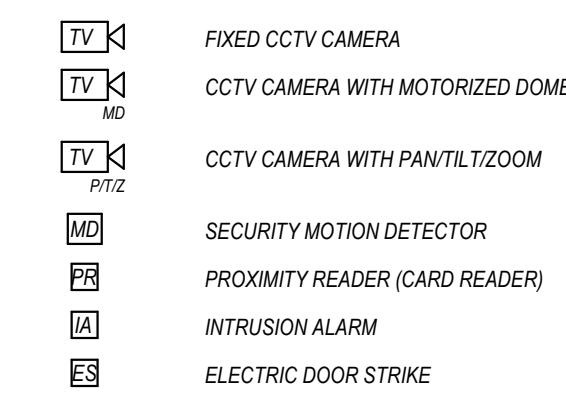
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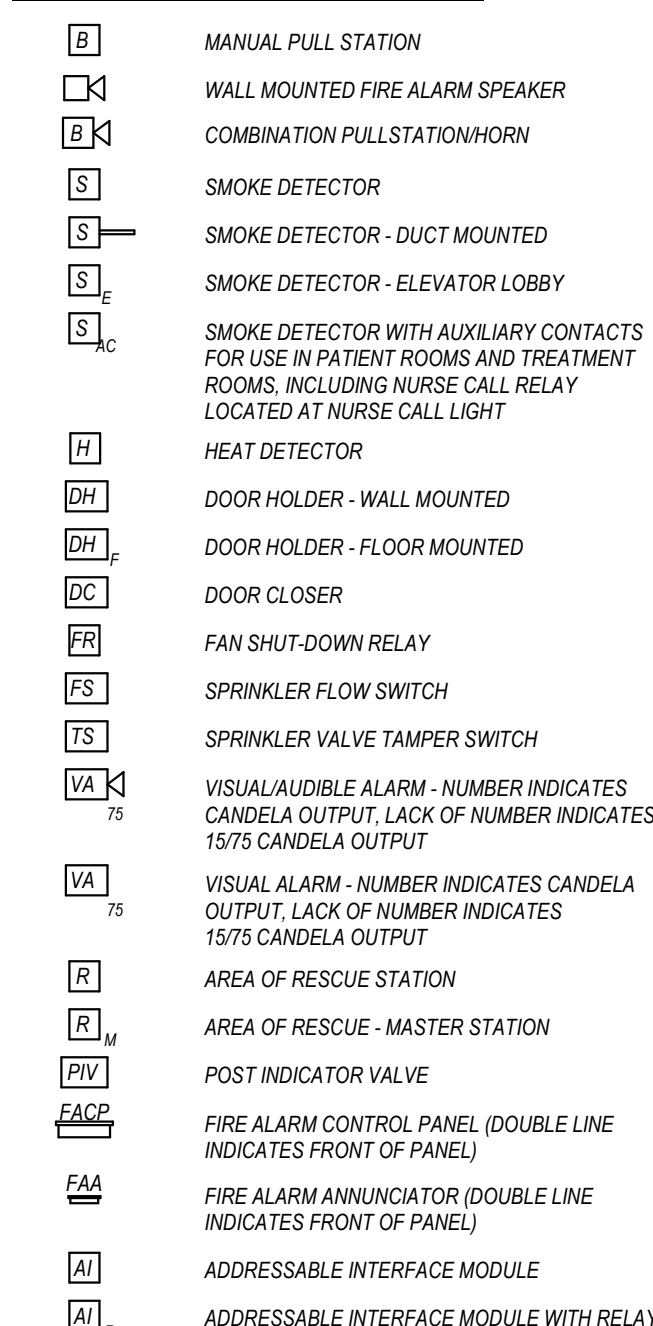
COMMUNICATION SYMBOLS



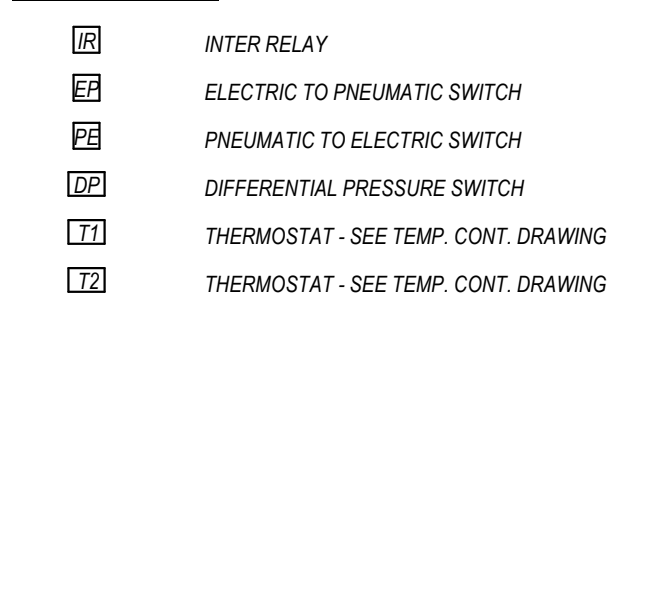
SECURITY SYMBOLS



FIRE ALARM SYMBOLS



**TEMPERATURE
CONTROLS
SYMBOLS**



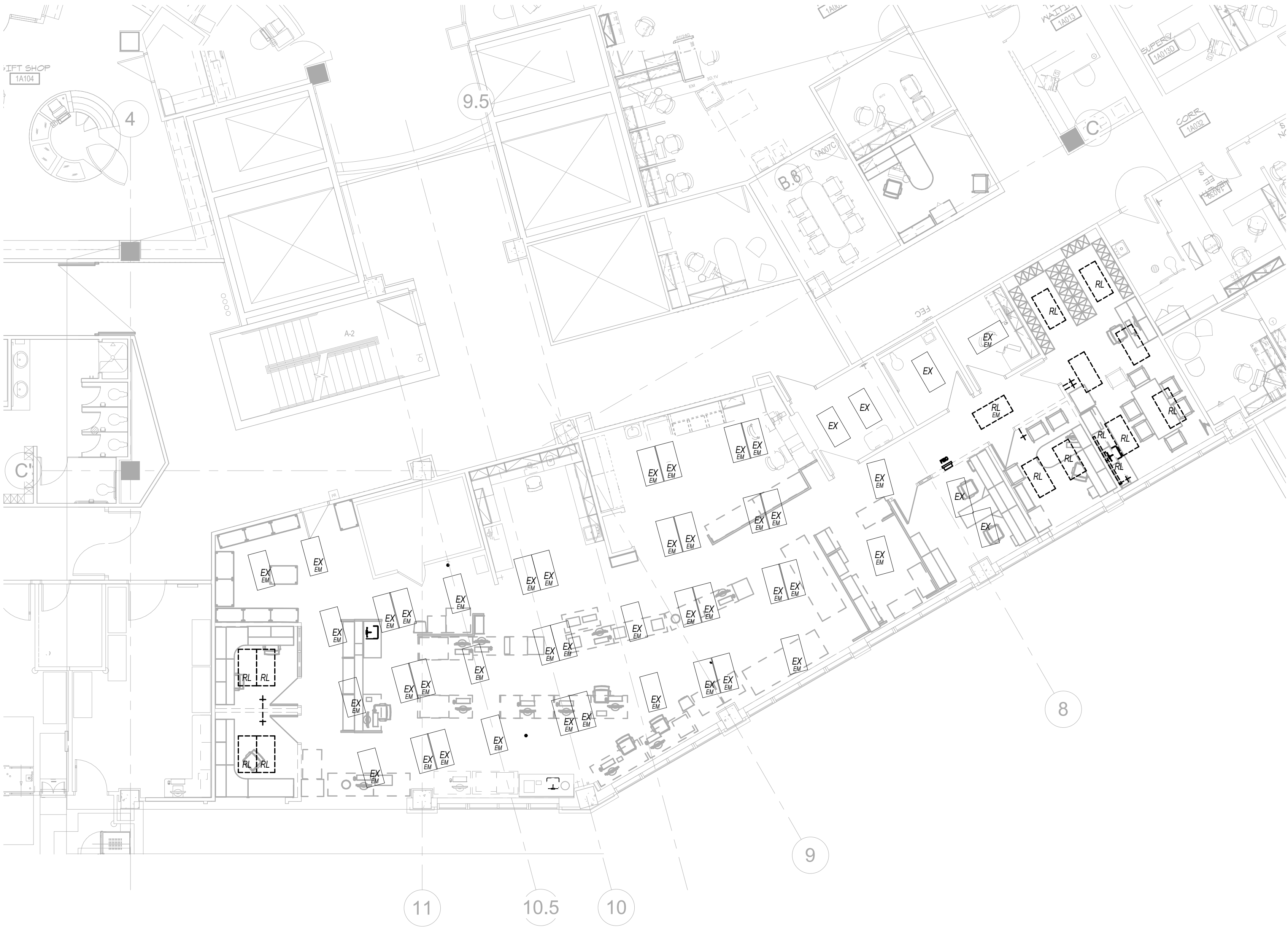
ELECTRICAL ABBREVIATIONS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
A	AMPERES (AMPS)	LTG	LIGHTING
AFB	ABOVE FINISHED FLOOR	MCB	MAIN CIRCUIT BREAKER
HGS	ABOVE FINISHED GRADE	MECH	MECHANICAL
AG	ABOVE GRADE	MERC (MV)	MERCURY VAPOR
AIC	AMPS INTERRUPTING CURRENT	MP	METAL HOIST
APPROX	APPROXIMATE	MISC	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
CRT	CIRCUIT	NEMA	NAT'L ELEC. MFR ASSOCIATION
CL	CENTER LINE	NF	NOT FUSED
CLS	CLING	NIC	NOT IN CONTRACT
CM	COORDINATE MOUNTING	NL	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
DIP	DISTRIBUTION PANEL	PH	PHASE
DIPBT	DOUBLE POLE DOUBLE THROW	PNL	PANEL, PANELBOARD
DIPST	DOUBLE POLE SINGLE THROW	PRI	PRIMARY
DWG	DRAWING	PVC	POLYVINYL CHLORIDE CONDUIT
		POWER	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
GFC	GROUNDING ELECTRIC CONDUCTOR	TSTAT	THERMOSTAT
GND	GROUND	TV	TELEVISION
		Typ	TYPICAL
H	HIGH INTENSITY DISCHARGE	UG	UNDERGROUND
HZ	HERTZ	UL	UNDERWRITERS LABORATORY
IG	ISOLATED GROUND	UNLESS OTHERWISE NOTED	UNLESS OTHERWISE NOTED
IN	INCHES	UNINTERRUPTIBLE POWER SUPPLY	UNINTERRUPTIBLE POWER SUPPLY
INC	INCANDESCENT	V	VOLTS
ISC (AIC)	SHORT CIRCUIT CURRENT	VV	VOLT/TEMPERES
		WFD	VARIABLE FREQUENCY DRIVE
J, JB	JUNCTION BOX	W	WATTS (OR WIRE)
KV	KILOVOLTS	WTH	WITH
KVIL	KILOVOLT-AMPS	WO	WITHOUT
KW	KILOWATTS	WTHRPF	WEATHERPROOF
KWH	KILOWATT HOURS	WT	WATERIGHT
		XFMR	TRANSFORMER

GENERAL NOTES

(THESE NOTES APPLY TO ALL ELECTRICAL SHEETS)

1. A MAXIMUM OF (5) (5) (5) CURRENT - CARRYING WIRES SHALL BE INSTALLED IN ANY ONE CONDUIT. ALL BRANCH CIRCUITS EXCEPT MOTOR CIRCUITS SHALL BE INSTALLED IN RIGID CONDUIT.
2. COORDINATE ALL WORK WITH OTHER TRADES. OFFSET PANEL LIGHTS, RECEPTABLES AND CONDUITS AS REQUIRED. APPROVAL MUST BE OBTAINED FROM THE CONTRACTOR TO PROCEED TO THE NEXT STEP.
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 WIRING, EQUIPMENT, ETC. TO MAKE SITE SAFE FOR DEMOLITION BY OTHER TRADES. REFER TO THE DRAWING PLANS FOR SITE DEMOLITION THAT MAY NOT BE SHOWN ON ELECTRICAL SHEETS.
5. CONTRACTOR SHALL COORDINATE ALL PRIMARY VOLTAGE UTILITY WORK WITH THE UTILITY COMPANY.
6. NO CONDUIT OR DEVICES IN FINISHED AREAS SHALL BE SURFACE MOUNTED. CONTRACTOR SHALL RECESS OR CONCEAL CONDUITS AND DEVICES AS REQUIRED. WAREHOUSES, TRADING FLOORS, ETC. SHALL BE APPROVED BY ARCHITECT.
7. CONTRACTOR SHALL GAIN APPROVAL FROM ARCHITECT PRIOR TO INSTALLING ANY SURFACE MOUNTED DEVICES.
8. WHERE FLOOR TRENCHING IS REQUIRED, THE CONTRACTOR SHALL TRENCH TO NEAREST FLOOR AS REQUIRED. FLOOR SHALL BE PATCHED TO MATCH ADJACENT FLOOR. TRENCHING TO BE DONE IN ACCORDANCE WITH THE FOLLOWING:
9. ALL LOW VOLTAGE CABLING SHALL BE PLENUM RATED. THIS IS NOT LIMITED TO, BUT SHOULD INCLUDE, ALL FIRE ALARM.
10. CONTRACTOR SHALL RELocate ALL EXISTING DEVICES IN ALL EXISTING TO EXISTING PANELBOARDS AT THE COMPLETION OF THE PROJECT. ALL EXISTING DEVICES TO BE REMOVED FROM EXISTING PANELBOARDS TO REFLECT ALL WORK DONE AS PART OF THIS PROJECT.
11. ALL EXISTING CONDUIT AND WIRING BEING CONNECTED TO NEW WORK THAT IS NOT IN COMPLIANCE WITH THE NEC SHALL BE CORRECTED AS REQUIRED.
12. ALL EXISTING NEW WIRING SHALL BE INSTALLED IN TEMPORARY EQUIPMENT CONDUIT, AND WIRING NOT REQUIRED TO REMAIN.
13. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDUITS PRIOR TO BEGINNING ANY NEW WORK.
14. ALL EXISTING ITEMS REMOVED DURING DEMOLITION SHALL BE TURNED OVER TO THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MOVING THE ITEMS TO A STORAGE AREA, OR DESTROYING THEM. THE CONTRACTOR SHALL BE RESPONSIBLE TO KEEP BY THE OWNER SHALL BE DISPOSED OF BY THE CONTRACTOR.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING:
16. ELECTRICAL SERVICE SHALL BE GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
17. ALL CONDUITS SHALL BE HELD AS HIGH AND AS CLOSE AS POSSIBLE TO THE STRUCTURE SUPPORTING THE FLOOR ABOVE AREA WAREHOUSE INSTALLATIONS OCCURS. COORDINATE WITH OTHER TRADES AS REQUIRED.
18. COORDINATE THE ROUTING OF ALL CONDUITS WITH OTHER TRADES. MAKE SURE ALL CONDUITS ARE PROTECTED. FOLLOW THE ROUTING OF ALL CONDUITS AS REQUIRED. ROUTING SHOWN ON PLANS IS DIAGRAMATIC.
19. CONTRACTOR SHALL REDUCUTE, LOCATE OR REMOVE ANY CONDUIT, FITTINGS, OR EXISTING ELECTRICAL EQUIPMENT THAT IS NOT IN COMPLIANCE WITH THE NEW WORK. MAINTAIN AND RESTORE POWER TO ALL EXISTING DEVICES BEING SERVED IN AREAS, AND ALL EXISTING DEVICES TO BE REMOVED. CONTRACTOR SHALL REMOVE ALL CIRCUITS FROM EXISTING TO REMAIN PANELBOARDS THAT HAVE THEIR ENTIRE LOAD REMOVED AND ARE NOT REQUIRED TO BE REUSED TO SERVE NEW LOADS. CONTRACTOR SHALL WORK WITH THE OWNER TO IDENTIFY ALL EXISTING DEVICES AND REMOVE BACK TO THEIR PANELBOARD AND THEIR ASSOCIATED BREAKER SHALL BE LABELED AS A SPARE. CONDUIT THAT IS LOCATED IN THE FLOOR OR SLAB OR UNDER FLOOR COVERINGS SHALL BE REMOVED. HOWEVER, ALL CONDUCTORS SHALL BE REMOVED.
20. DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL EQUIPMENT, LIGHT FIXTURES, ETC. FROM EXISTENT SHOWN ON THE DRAWING. ALL THE EXISTING DEVICES SHOWN LIGHT ARE EXISTING TO REMAIN.
21. THE CONTRACTOR SHALL VERIFY THE OPERATION OF ALL DEVICES THAT ARE EXISTING TO REMAIN. ALL EXISTING DEVICES THAT ARE NOT TO BE REMOVED OR REPLACED AS REQUIRED. REPLACE ALL DAMAGED AND MISSING COVERS IN AREAS OF NEW WORK AS REQUIRED.
22. ALL REMOVAL OF ALL COMMUNICATION WIRING WITH REMOVED IN ALL UNBUND COMMUNICATION CABLING SHALL BE REMOVED AS REQUIRED.
23. CONTRACTOR SHALL REMOVE ALL WIRING.
24. ALL EXISTING DEVICES TO BE REMOVED OR EQUIPMENT TO BE REMOVED MAY NOT BE SHOWN. HOWEVER, ALL ITEMS NOT REQUIRED TO REMAIN SHALL BE REMOVED.
25. THE CONTRACTOR SHALL MATCH THE RATINGS AND CHARACTERISTICS OF ALL EXISTING BREAKERS REMOVED TO BE REPLACED TO THOSE OF THE EXISTING BREAKERS IN EXISTING PANELBOARDS.
26. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN AND ELEVATIONS FOR THE LOCATION OF LIGHT FIXTURES TO BE REMOVED.
27. ALL RECEPTABLES INSTALLED IN BATHROOMS OR WITHIN SIX FEET OF ANY SINK SHALL BE GFCI PROTECTED.
28. ALL ELECTRICAL CONNECTIONS ON THE SITE, EXTERIOR OF BUILDING, OR IN TUNNELS SHALL BE MADE USING WATERPROOF CONNECTORS.

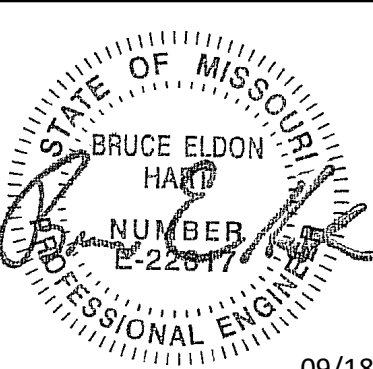


1 FIRST FLOOR LIGHTING DEMOLITION PLAN
1/8" = 1'-0"



**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.



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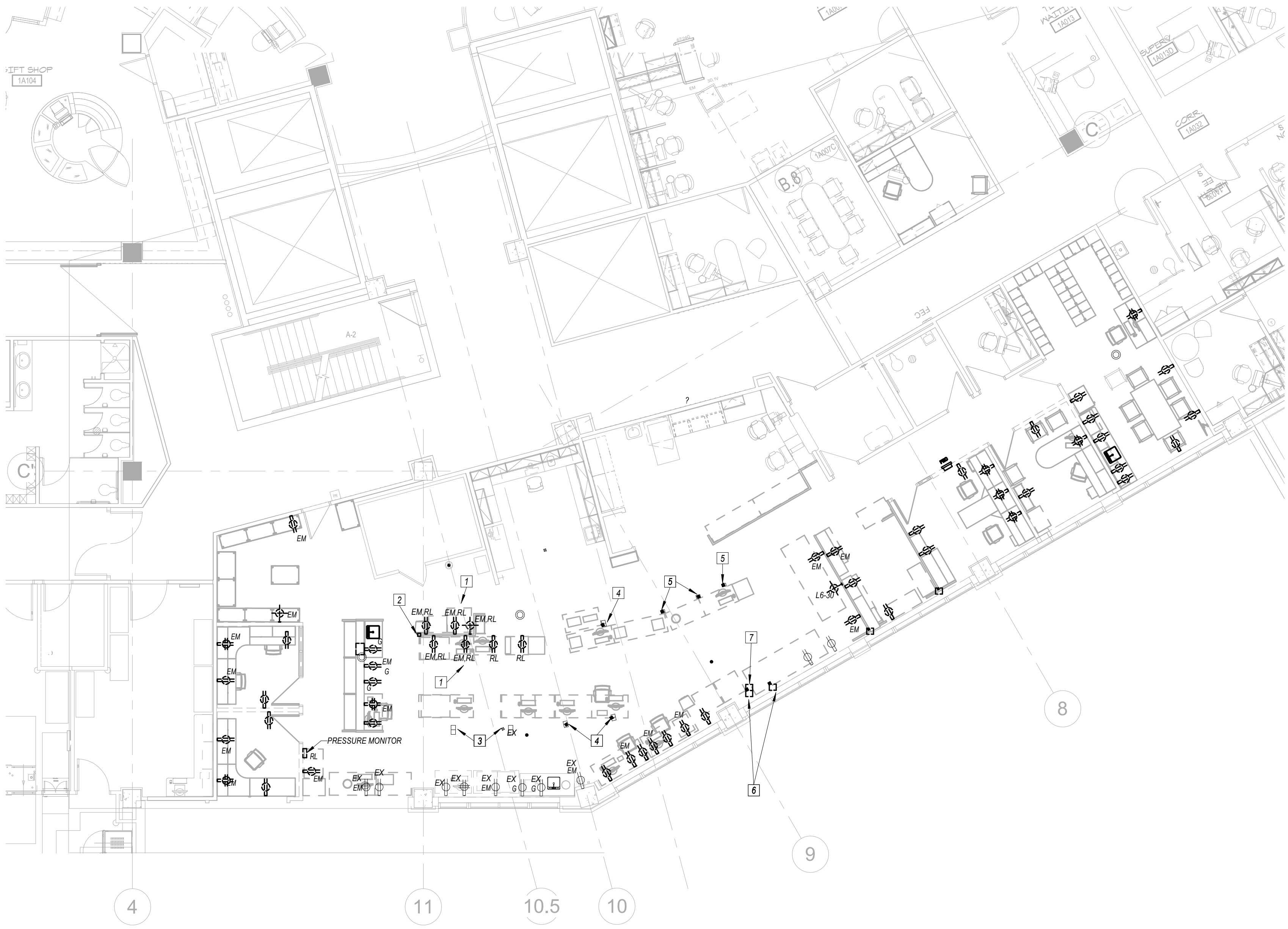
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LIGHTING FIRST FLOOR DEMOLITION
PLAN



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



ELECTRICAL POWER 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. 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 DEVICES MOUNTED IN SYSTEM FURNITURE TO BE RELOCATED WITH FURNITURE. DISCONNECT EXISTING CIRCUITING FOR RELOCATION. EXISTING CIRCUIT TO BE EXTENDED AND RECONNECTED TO DEVICES IN NEW LOCATION. REFER TO NEW WORK ELECTRICAL PLAN FOR FURTHER INFORMATION.
- 2 THREE SECTION POWER POLE TO BE RELOCATED TO NEW EQUIPMENT LOCATION. REFER TO ARCHITECTURAL PLANS AND NEW WORK ELECTRICAL PLANS FOR FURTHER INFORMATION.
- 3 EXISTING POWER POLE TO REMAIN.
- 4 DISCONNECT AND RELOCATE 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. REFER TO NEW WORK ELECTRICAL PLAN FOR FURTHER INFORMATION.
- 5 DISCONNECT AND RELOCATE EXISTING POWER POLE WITH TWO(2) EMERGENCY DUPLEX RECEPTACLES AND TWO(2) DATA DROPS. REFER TO NEW WORK ELECTRICAL PLAN FOR FURTHER INFORMATION.
- 6 DISCONNECT AND RECONNECT TWO(2) EXISTING POWER POLES. ONE POLE WITH ONE(1) EMERGENCY NEMA 15-20 RECEPTACLE AND ONE POLE WITH TWO(2) EMERGENCY DUPLEX RECEPTACLES. REFER TO NEW WORK ELECTRICAL PLAN FOR FURTHER INFORMATION.
- 7 DISCONNECT AND RELOCATE EXISTING POWER POLE WITH ONE(1) EMERGENCY 15-30 RECEPTACLE. REFER TO NEW WORK ELECTRICAL PLAN FOR FURTHER INFORMATION.

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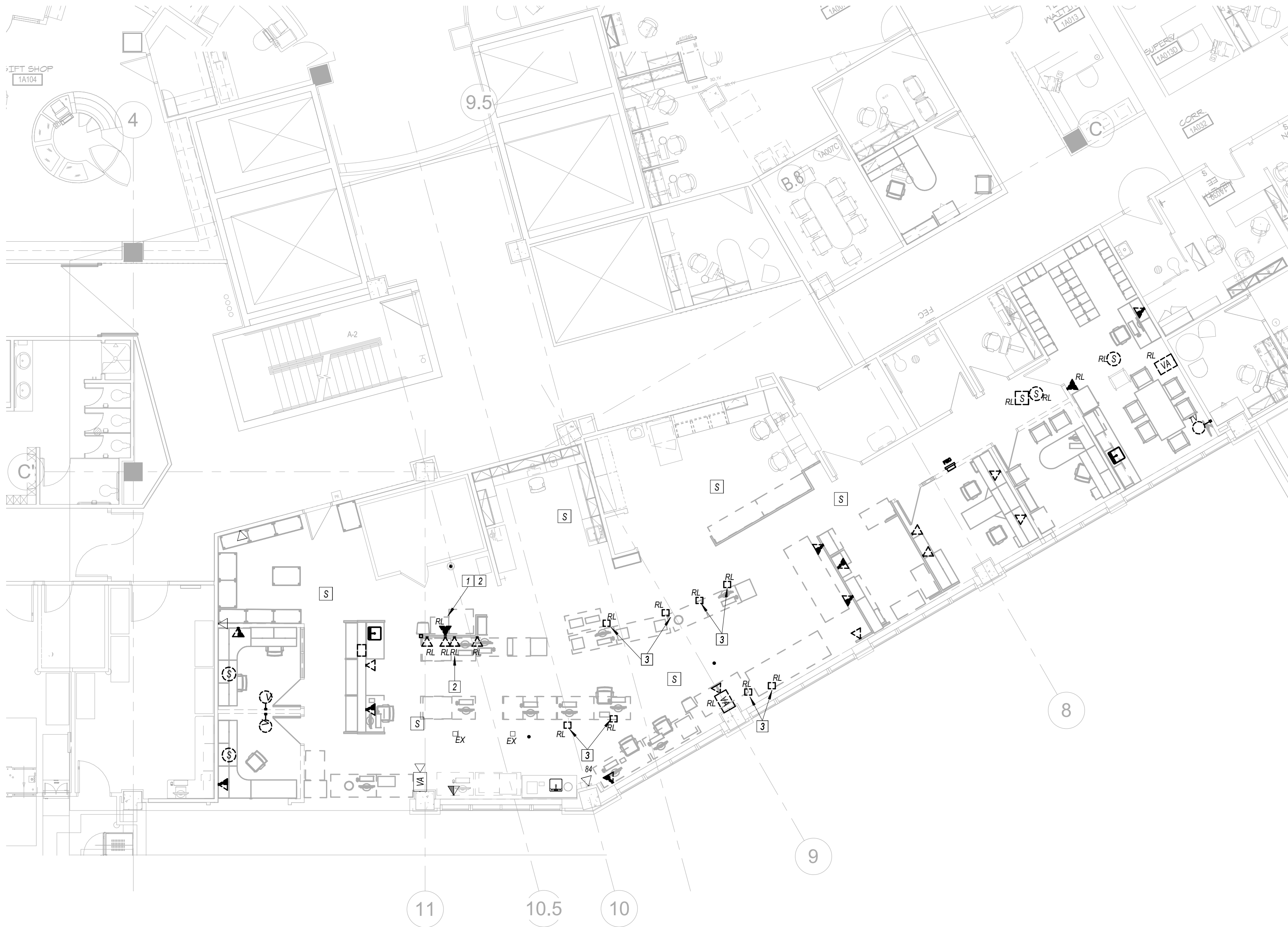
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POWER FIRST FLOOR DEMOLITION
PLAN

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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.

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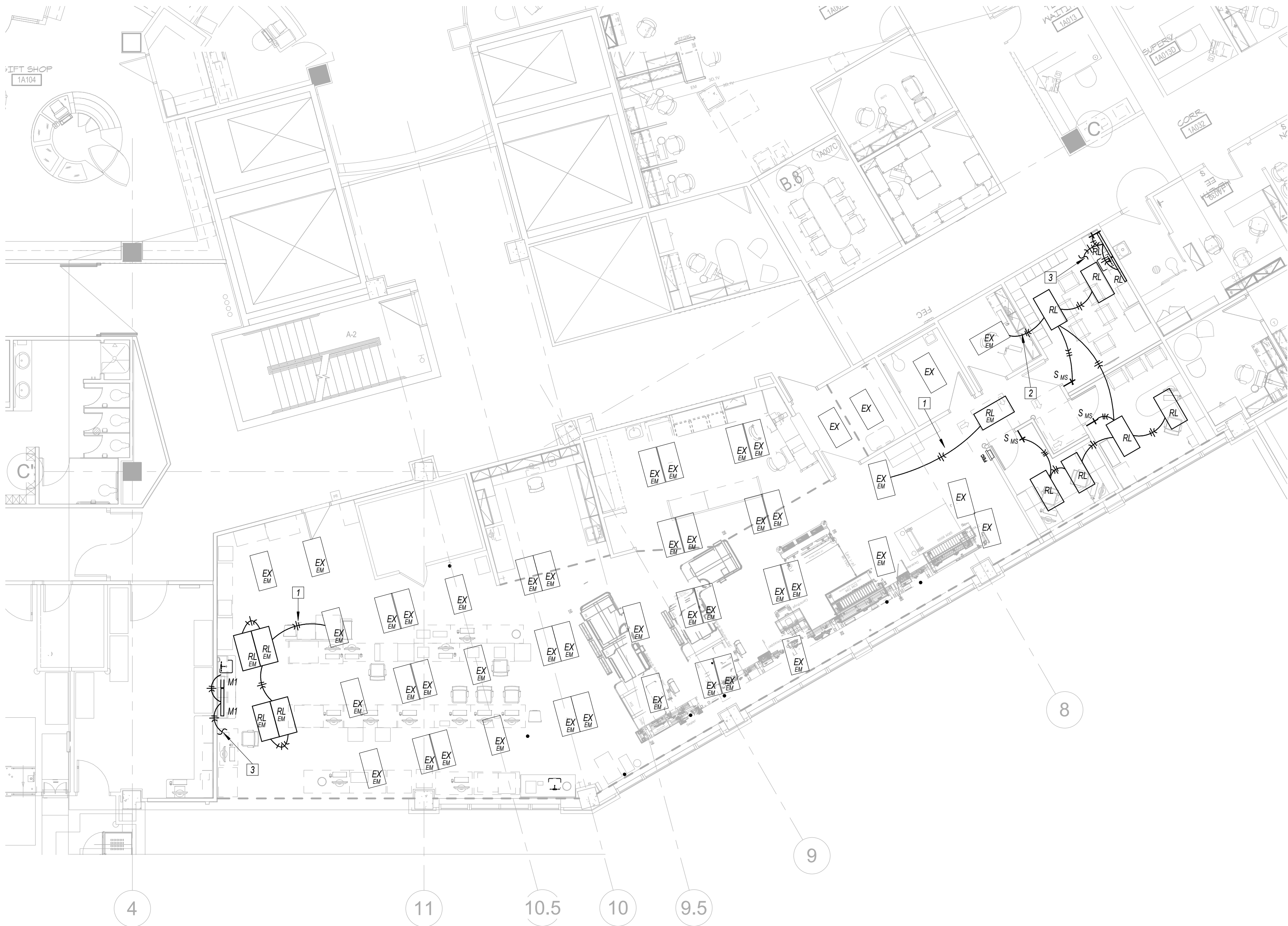
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COMMUNICATIONS FIRST FLOOR
DEMOLITION PLAN



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

Lighting Fixture Schedule							
TYPE	MANUFACTURER/MODEL	FIXTURE DESCRIPTION	MOUNTING	DRIVER/BALLAST	LAMP	VOLTAGE	WATTS
MF	WILLIAMS TSF LED SERIES	3' UNDERCABINET FIXTURE WITH SOLID FRONT AND BOTTOM ACRYLIC LENS DIFFUSER. INTEGRAL ROCKER SWITCH.	SURFACE	INTEGRAL LED DRIVER	INTEGRAL 3500K CCT, 1200 LUMENS DELIVERED, MIN 80 CRI LED	120V	21 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.

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LIGHTING FIRST FLOOR PLAN



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



2 EXISTING ELECTRICAL PANEL PLAN

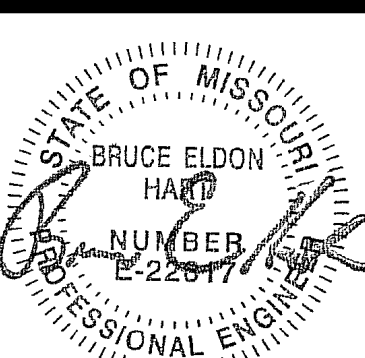
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ELECTRICAL POWER GENERAL NOTES

- 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 0

- [illegible]



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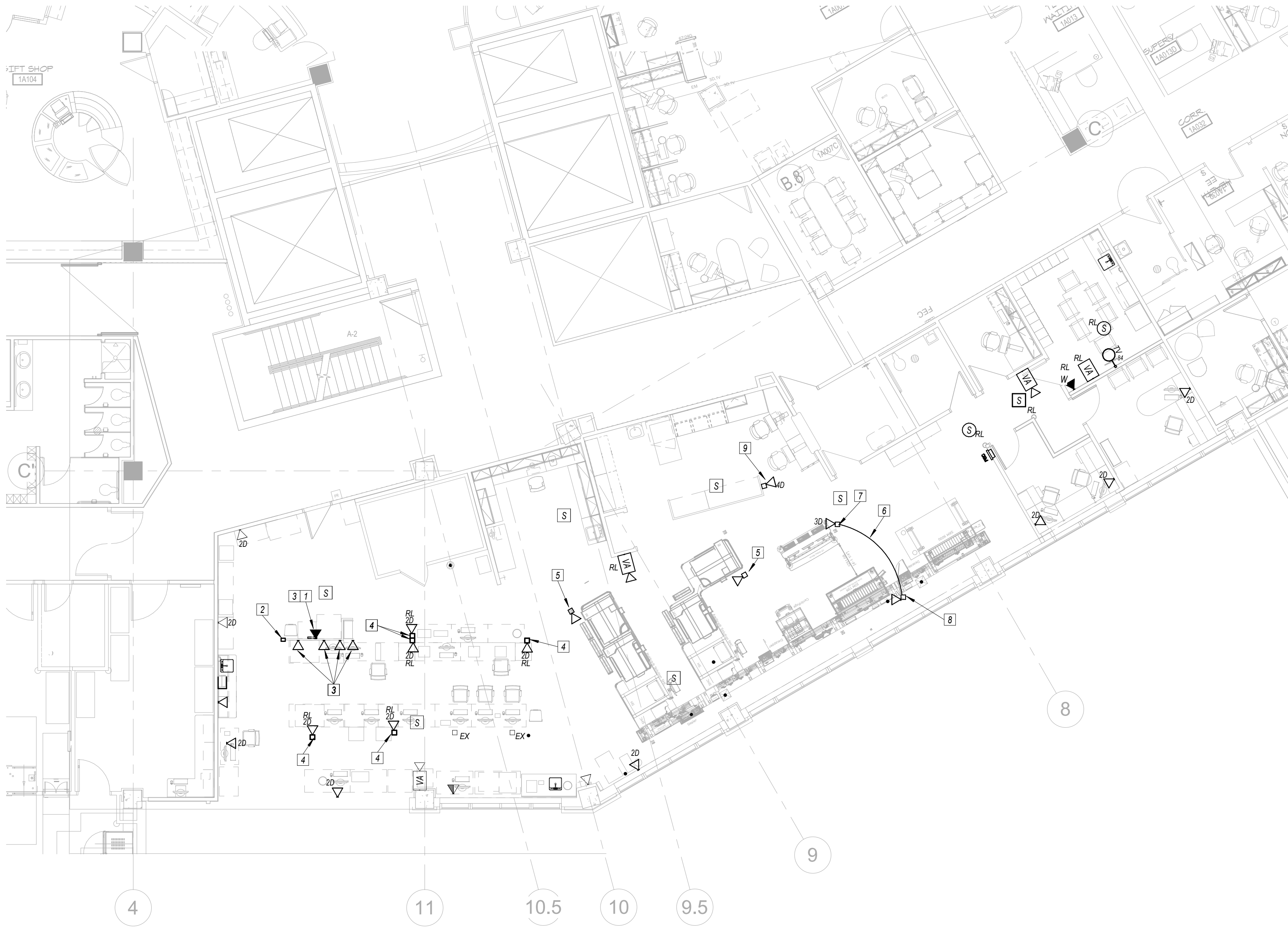
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POWER FIRST FLOOR PLAN & SCHEDULE

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



ELECTRICAL COMMUNICATIONS GENERAL NOTES

- 1 REFER TO SHEET E000 FOR GENERAL NOTES. NOT ALL GENERAL NOTES MAY APPLY TO THIS SHEET.
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- 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 DEDICATED ANALOG TELEPHONE LINE FOR CONNECTION TO REFRIGERATOR/FREEZER ALARM.
- 2 DROP CABLE DOWN IN POWER POLE AND EXTEND AND CONNECT TO SYSTEM FURNITURE MOUNTED DEVICES.
- 3 DEVICE MOUNTED IN SYSTEM FURNITURE. EXTEND CABLEING THROUGH FURNITURE RACEWAY TO POWER POLE CONNECTION POINT.
- 4 DROP CABLE 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 HEALTHCARE DRAWINGS FOR ADDITIONAL INFORMATION.
- 6 FURNISH AND INSTALL SIX(6) CAT 6 CABLES BETWEEN APTIO WORKSTATION AND APTIO UTILITY LOCATION. REFER TO SIEMENS HEALTHCARE DRAWINGS FOR FURTHER INFORMATION.
- 7 REVERSE RELOCATED POWER POLE WITH THREE(3) NETWORK DATA DROPS AND CONNECTION POINT FOR SIX(6) CAT5 CABLES TO APTIO. REFER TO SIEMENS HEALTHCARE DRAWINGS FOR FURTHER INFORMATION.
- 8 REVERSE RELOCATED POWER POLE WITH ONE(1) NETWORK DATA DROPS AND CONNECTION POINT FOR SIX(6) CAT5 CABLES FROM APTIO WORKSTATION. REFER TO SIEMENS HEALTHCARE DRAWINGS FOR FURTHER INFORMATION.
- 9 DATA DROPS MOUNTED IN NEW POWER POLE. REFER TO ELECTRICAL POWER PLAN FOR ADDITIONAL POWER POLE INFORMATION.

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COMMUNICATIONS FIRST FLOOR
PLAN