

Saint Luke's

EAST HOSPITAL

PROJECT TEAM

ARCHITECT

ACI BOLAND, INC.

1710 WYANDOTTE STREET
KANSAS CITY, MO 64108

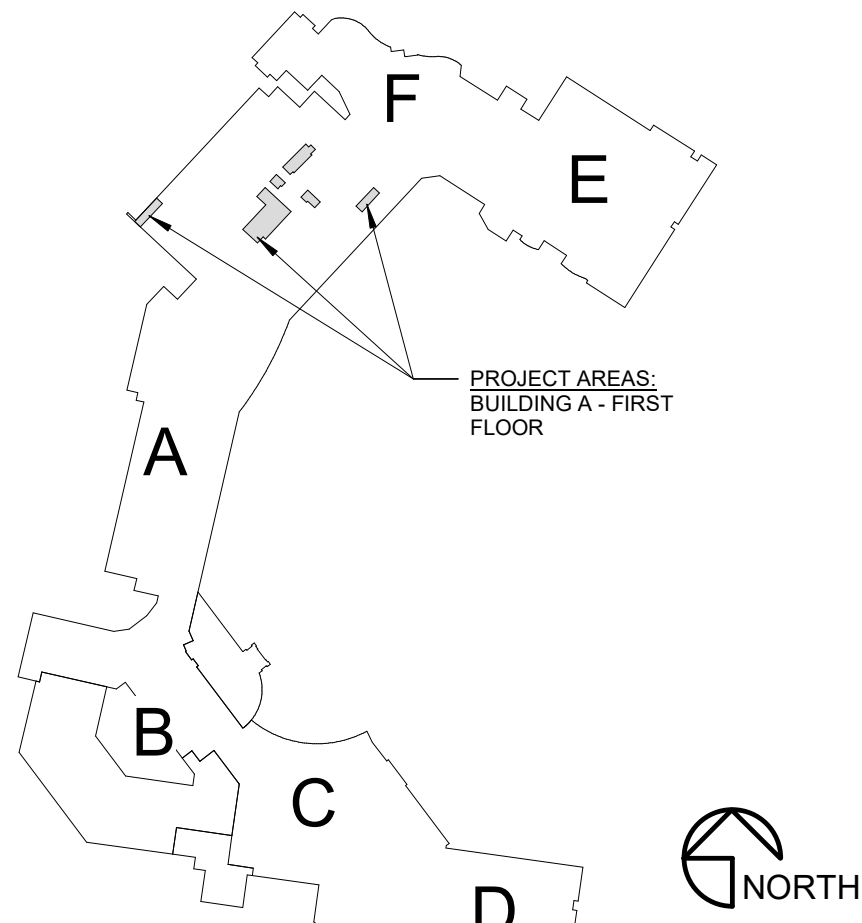
PHONE 816.763.9600
FAX 816.763.9757

MEP ENGINEER

IMEG Corp.

1600 Baltimore, Suite 300
Kansas City, MO 64108

PHONE 816.842.8437
FAX 816.842.6441

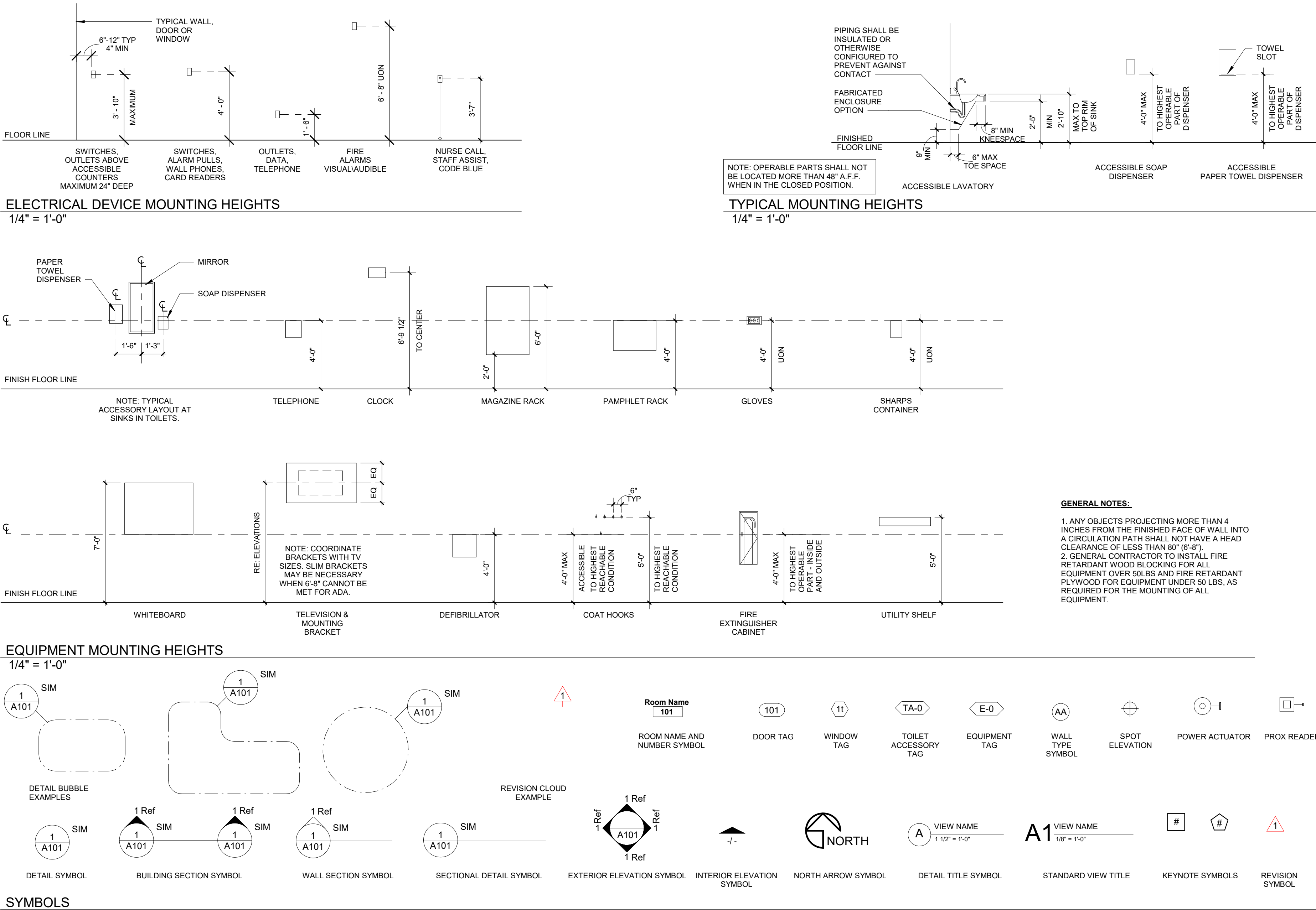


LOCATION PLAN

SLE Hybrid OR
100 NE Saint Luke's Blvd
Lee's Summit, MO 64086

ABBREVIATIONS

AC.	ACOUSTIC/ACOUSTICAL	FLOR.	FLUORESCENT	PTD.	PAINTED
ADD.	ADDENDUM	FTG.	FOOTING	PG.	PAGE
ADDN.	ADDITION	FND.	FOUNDATION	PLAM.	PLASTIC LAMINATE
ABC.	AGGREGATE BASE COURSE	FR.	FRAME	PR.	PAIR
AFF.	ABOVE FINISH FLOOR	F.H.C.	FIRE HOSE CAB.	PNL.	PANEL
AGG.	AGGREGATE	FV.	FIRE HOSE CAB. FIELD VERIFY	PTN.	PARTITION
AKC.	AIR CONDITIONING	GA.	GAUGE	d	PLATE
AL.	ALUMINUM	GL.	GLASS / GLAZING	PLBG.	PLUMBING
ALT.	ALTERNATE	GD.	GRADE	PLYWD.	PLYWOOD
A.B.	ANCHOR BOLT	G.	GRAM	PT.	POINT
&	AND	GR.L.	GRILLE	P.S.F.	POUNDS PER SQ. FT.
ARCH.	ARCHITECT	GRD.	GRID	P.C.	PRECAST
ASP.	ASPHALT	GND.	GROUND	P.L.	PROPERTY LINE
@	AT	G.S.	GALVANIZED STEEL		
ACT	ACOUSTIC CEILING TILE/PANEL	GYP.	GYP SUM		
Δ	ANGLE	GWSUM	GYP SUM BOARD		
BLKG.	BLOCKING	H.R.	HAND RAIL	R.	RISER, RISERS
BSMT.	BASEMENT	HR.	HARDENER	RAD.	RADIUS
BM.	BEAM	HDN.	HARDWARE	R.D.	ROOF DRAIN
B.M.	BENCHMARK	HDW.	HARDWOOD	RS.	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	H.P.	HIGH POINT	RFG.	ROOFING
C.I.P.	CAST IN PLACE	H.R.	HORIZONTAL	RGH.	ROUGH
C.B.	CATCH BASIN	H.W.	HOT WATER	RM.	ROOM
CLG.	CEILING	H.W.	HOT WATER	RND.	ROUND
CEM.	CEMENT/CEMENTITIOUS			R.O.	ROUGH OPENING
CG.	CENTRIGRAM	IN.	INCH / INCHES	SCHED.	SCHEDULE
CM	CENTIMETER	IN.	INCH / INCHES	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	JOINT	JOINT	SH.	SHEET
CLR.	CLEAR	JST.	JOIST	SDG.	SIDING
C.O.	CLEAN OUT	K.P.	KICK PLATE	SIM.	SIMILAR
CLOS.	CLOSET	LAM.	LAMINATED	SLDG.	SLIDING
COL.	COLUMN	LB.	POUND	SM.	SMOOTH
CONC.	CONCRETE	LDG.	LANDING	SPEC.	SPECIFICATION
CONN.	CONNECTION	LTH.	LATH	SQ.	SQUARE
CONST.	CONSTRUCTION	LTV.	LAVATORY	STD.	STAINED
C.J.	CONTROL JOINT	LTV.	LAVATORY	STD.	STANDARD
CONT.	CONTINUOUS	LTV.	LAVATORY	S.S. /	S.S. /
CONTR.	CONTRACTOR	LG.	LENGTH	ST. ST.	STAINLESS STEEL
CORP.	CORRUGATED	LOC.	LOCATION	STRUC.	STRUCTURE
CTR.	COUNTER	LQ.	LENGTH	SUSP.	SUSPENDED
CTSK.	COUNTERSUNK	LWC.	LIGHT WEIGHT CONCRETE	SW BD	SWITCHBOARD
C.M.U.	CONCRETE MASONRY UNIT	LVR.	LOUVER	SVS.	SYSTEM
		LVR.	LOCATION		
D.P.	DAMP PROOFING	M.O.	MASONRY OPENING	T.	TREAD
DB.	DECIBEL	MAT.	MATERIAL	T.C.	TOP OF CURB
DIAG.	DIAGONAL	MFR.	MANUFACTURER	T.G.	TEMPERED GLASS
DIAM.	DIAMETER	MR.	MARKER BOARD	T.O.	TOP OF
DM.	DIMENSION	MB.	MAXIMUM	T.S.D.	TOP OF STEEL DECK
DISP.	DISPENSER	MCH.	MECHANICAL	T.W.	TEACHERS WARDROBE
DWL.	DOWEL	MTL.	METAL	TYP.	TYPICAL
DN.	DOWN	ML.	METAL LATH		
D.S.	DOWNSPOUT	M.	METER	U.O.N.	UNLESS OTHERWISE NOTED
DWG.	DRAWING	MDLG.	MOLDING		
		MULL.	MULLION	V.	VENT
EA.	EACH	N.G.	NATURAL GRADE	VERT.	VERTICAL
ELEC.	ELECTRIC	NOM.	NOMINAL	V.G.	VERTICAL GRAIN
E.W.C.	ELECTRIC WATER COOLER	N.I.C.	NOT IN CONTRACT	VEST.	VESTIBULE
EL.	ELEVATION	N.T.S.	NOT TO SCALE	V.C.P.	VITREOUS CLAY PIPE
ELEV.	ELEVATOR				
EQ.	EQUAL				
EQUIP.	EQUIPMENT				
EXH.	EXHAUST				
EXPAN.	EXPANSION				
E.J.	EXPANSION JOINT				
EXIST.	EXISTING				
EXT.	EXTENDING				
FT.	FEET / FOOT				
FIN.	FINISH				
FLR.	FLOOR				
FLX.	FLUORINE				
FLR.	FLOOR				
F.D.	FLOOR DRAIN				



SHEET INDEX

SHEET NUMBER	SHEET NAME
GENERAL	
A0.1	COVER SHEET
A0.2	CODE FOOTPRINT PLAN
A0.3	U.L. DESIGN ASSEMBLIES
DEMOLITION	
A0.1	DEMOLITION PLAN
ARCHITECTURE	
A2.1	FIRST FLOOR OVERALL PLAN
A2.2	ENLARGED PLANS
A2.3	2ND FLOOR PLANS
A3.1	FIRST FLOOR REFLECTED CEILING PLAN
A4.1	DOOR AND FRAME SCHEDULE AND DETAILS
A4.2	ROOM FINISH SCHEDULE & FINISH LEGEND
A7.1	INTERIOR ELEVATIONS & DETAILS
PLUMBING	
P000	PLUMBING + MEDICAL GAS COVERSHEET
P111	FIRST FLOOR DEMOLITION - PLUMBING
P121	FIRST FLOOR DEMOLITION - MED GAS
P210	UNDERLAB - PLUMBING
P211	FIRST FLOOR - PLUMBING
P221	FIRST FLOOR - MED GAS
P900	PLUMBING SCHEDULES
MECHANICAL	
M000	MECHANICAL COVERSHEET
M111	FIRST FLOOR DEMOLITION - VENTILATION
M121	FIRST FLOOR DEMOLITION - PIPING
M211	FIRST FLOOR - VENTILATION
M221	FIRST FLOOR - PIPING
M400	MECHANICAL DETAILS
M500	TEMPERATURE CONTROL
M600	MECHANICAL SCHEDULES
ME212	SECOND/THIRD FLOOR - VENTILATION/POWER
ELECTRICAL	
E000	ELECTRICAL COVERSHEET
E101	FIRST FLOOR DEMOLITION - LIGHTING
E111	FIRST FLOOR DEMOLITION - POWER
E121	FIRST FLOOR DEMOLITION - SYSTEMS
E201	FIRST FLOOR - LIGHTING
E211	FIRST FLOOR - POWER
E221	FIRST FLOOR - SYSTEMS
E400	LIGHTING DETAILS & SCHEDULES
VENDER	
SIEMENS	SIEMENS PHENO MACHINE
STRYKER	STRYKER EQUIPMENT BOOM
PRICE ULTRASLITE	PRICE ULTRASLITE LAMINAR DIFFUSER - DEFERRRED SUBMITTAL

GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH A.D.A. REQUIREMENTS AND ALL APPLICABLE LOCAL, STATE, AND FEDERAL BUILDING CODES AND REGULATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY BUILDING PERMITS.
- THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL FIELD VERIFY EXISTING CONDITIONS AND NOTIFY THE ARCHITECT OF ANY INCONSISTENCIES OR DISCREPANCIES WITH THE PROJECT DOCUMENTS. ACCESS TO THE SITE AND/OR SPACE UNDER CONSTRUCTION DURING BIDDING AND CONSTRUCTION SHALL BE COORDINATED WITH THE OWNER.
- DO NOT SCALE DRAWINGS.
- THE WORD "ALIGN" AS USED IN THESE DOCUMENTS SHALL SUPERSEDE ANY DIMENSIONAL INFORMATION GIVEN.
- TYPICAL DIMENSIONS ARE TO FACE OF CONCRETE, DRYWALL, CURTAIN WALL, ETC., OR TO COLUMN CENTERLINE. DIMENSIONS AT WINDOWS ARE TYPICALLY TO FACE OF FRAME. REFER TO PLAN FOR DETAILS FOR ADDITIONAL INFORMATION.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR EXAMINING AND CONFIRMING ALL SUBSTRATE CONDITIONS WHERE NEW MATERIALS ARE APPLIED. THE SUBSTRATE SHALL BE SMOOTH AND FREE OF DEFECTS AND SHALL CONFORM TO THE REQUIREMENTS OF THE FINISHED MATERIAL MANUFACTURERS RECOMMENDATIONS.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN-UP.
- THE GENERAL CONTRACTOR SHALL INSPECT AND CHECK THE ADEQUACY AND INSTALLATION OF THROUGH-WALL FLASHING PRIOR TO COVERING WITH FINISH MATERIALS. THIS SHALL INCLUDE, BUT IS NOT LIMITED TO INSPECTION AGAINST HOLES OR PENETRATIONS, APPROPRIATE LAPPING AND SEALING, AND OVERALL WORKMANSHIP IN CONFORMANCE WITH THE SPECIFICATIONS.

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ACI BOLAND ARCHITECTS

1710 Wyandotte
Kansas City, MO 64108
T: 816.763.9600

ACI/Boland, Inc.
Kansas City | St. Louis
Licensee's Certificate of Authority Number:
Missouri: #000958

MEP CONSULTANT

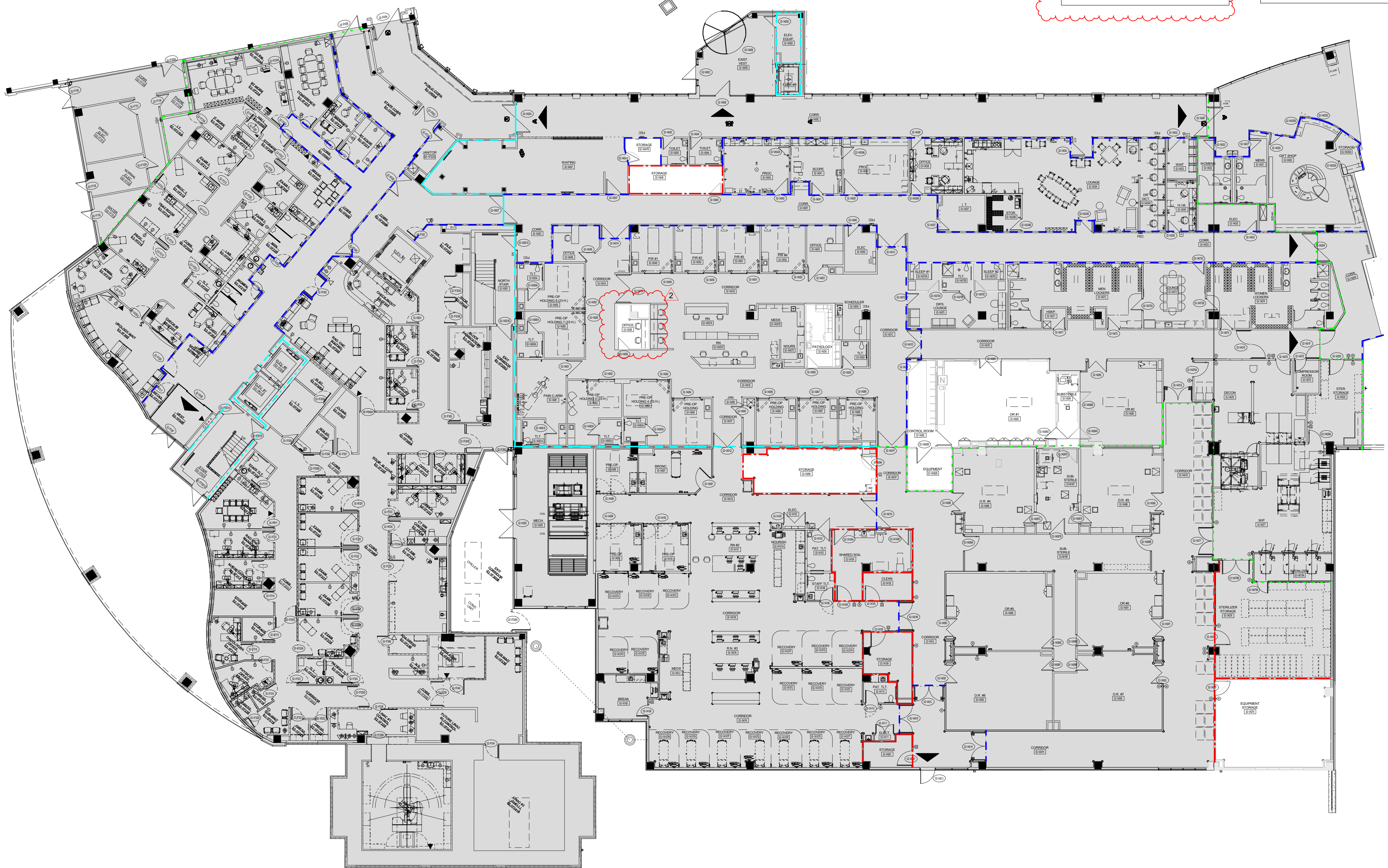
IMEG Corp.
1600 Baltimore, Suite 300
Kansas City, Missouri 64108
T: 816.842.8437
Licensee's Certificate of Authority Number:
Missouri: #F00132556

SLE HYBRID OR
100 NE Saint Luke's Blvd
Lee's Summit, MO 64086

Date 5/31/2022
Job Number 3-20034
Drawn By BD
Checked By AD

Revision
Number Date Description

A0.1
COVER SHEET



A5 LIFE SAFETY PLAN
1/16" = 1'-0"

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

PARTITION GENERAL NOTES

- UNLESS NOTED OTHERWISE, ALL INTERIOR METAL STUDS ARE 3/8" THICK. REFER TO SURFIX 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 | 1/8" MTL STUDS |
| 2 | 2/12" MTL STUDS |
| 3 | 6" MTL STUDS |
- UNLESS NOTED OTHERWISE, ALL INTERIOR DRYWALL PARTITIONS INDICATED ON THE FLOOR PLAN DRAWING ARE TYPE 'A' PARTITIONS. WHERE OCCURS, RATINGS ARE AS INDICATED ON THE LIFE SAFETY PLANS.
 - UNLESS NOTED OTHERWISE, ALL INTERIOR MASONRY PARTITIONS INDICATED ON THE FLOOR PLAN DRAWING ARE TYPE 'B' PARTITIONS. WHERE OCCURS, RATINGS ARE AS INDICATED ON THE LIFE SAFETY PLANS.
 - ALL STUDS ARE CONTINUOUS FROM FLOOR STRUCTURE TO CEILING STRUCTURE UNLESS NOTED OTHERWISE.
 - METAL STUDS ARE SPACED @ 16" O.C. MAX. UNLESS NOTED OTHERWISE.
 - UNLESS NOTED OTHERWISE, ALL GYPSUM BOARD IS TO BE 5/8" THICK "FIRECODE".
 - THE LOCATION OF A CHANGE IN THE PARTITION TYPE IS INDICATED BY A WALL TAG.
 - THE CORRESPONDING RATED ASSEMBLIES ARE INDICATED BELOW THE PARTITION TYPES.
 - PARTITION TYPE DESIGNATIONS ARE INDICATED ON THE FLOOR PLAN DRAWINGS.
 - PARTITION TYPES DO NOT INCLUDE APPLIED FINISHES CALLED FOR IN THE ROOM FINISH SCHEDULE.
 - AT PARTITION TYPES WHERE MTL STUDS ARE EXPOSED ON ONE OR BOTH SIDES, CUT STUD 1/4" SHORT AND SCREW BOTH SIDES TO MTL RUNNER TRACK.

CODE SUMMARY

Project Construction Purpose: Hybrid OR and Surgery Department Renovation

Project Address:
Saint Luke's Lee's Summit
100 NW Saint Luke's Blvd
Lee's Summit, MO 64063

Code Information
2018 International Building Code
2018 International Plumbing Code
2018 International Mechanical Code
2018 International Fuel Gas Code
2018 International Fire Code
2017 National Electrical Code
2009 ICC/ANSI A117.1 as amended and adopted by the City of Lee's Summit

State of Missouri Dept. of Health & Environment references the following codes:
2012 NFPA 101 Life Safety Code (LSC)
2014 FGI Guidelines for Design & Construction of Hospitals & Outpatient Facilities

Owner Information
Saint Luke's Lee's Summit
100 NW Saint Luke's Blvd
Lee's Summit, MO 64063

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

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)

Area of Renovation: 2080+/- SF

Occupancy Group: I-2 - Section 308.3

Occupant Load: Institutional Outpatient
Total Square Footage: 100 gross Table 1004.5
2500 SF / 100 = 25 occupants total

Required Fire Resistance Ratings (in hours)
Per NFPA 101 A.2.1.2.2:

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 AIA 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

AREA NOT IN SCOPE OF CONSTRUCTION

FIRE EXIT

1710 Wyandotte
Kansas City, MO 64108
T: 816.763.9600

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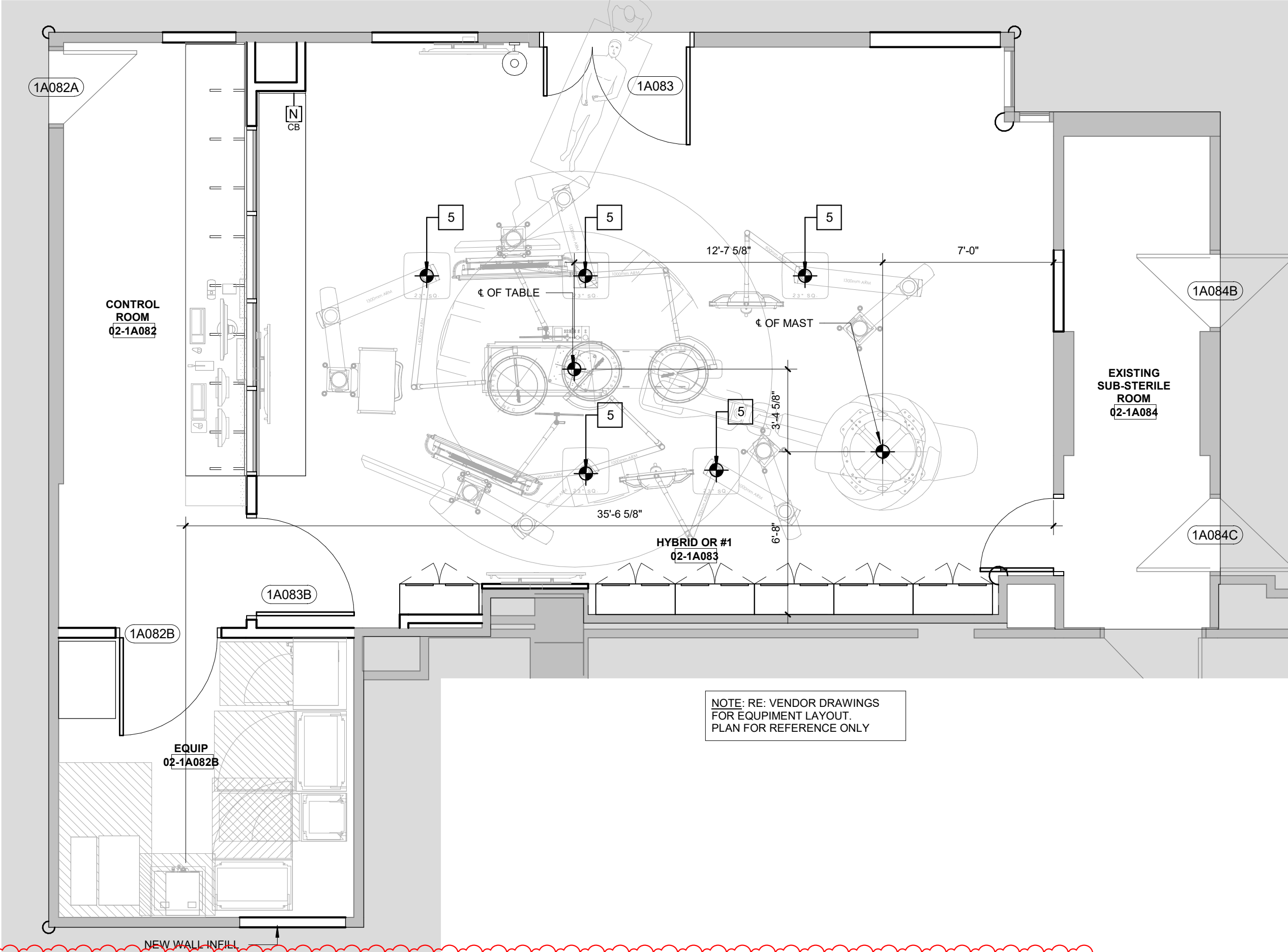
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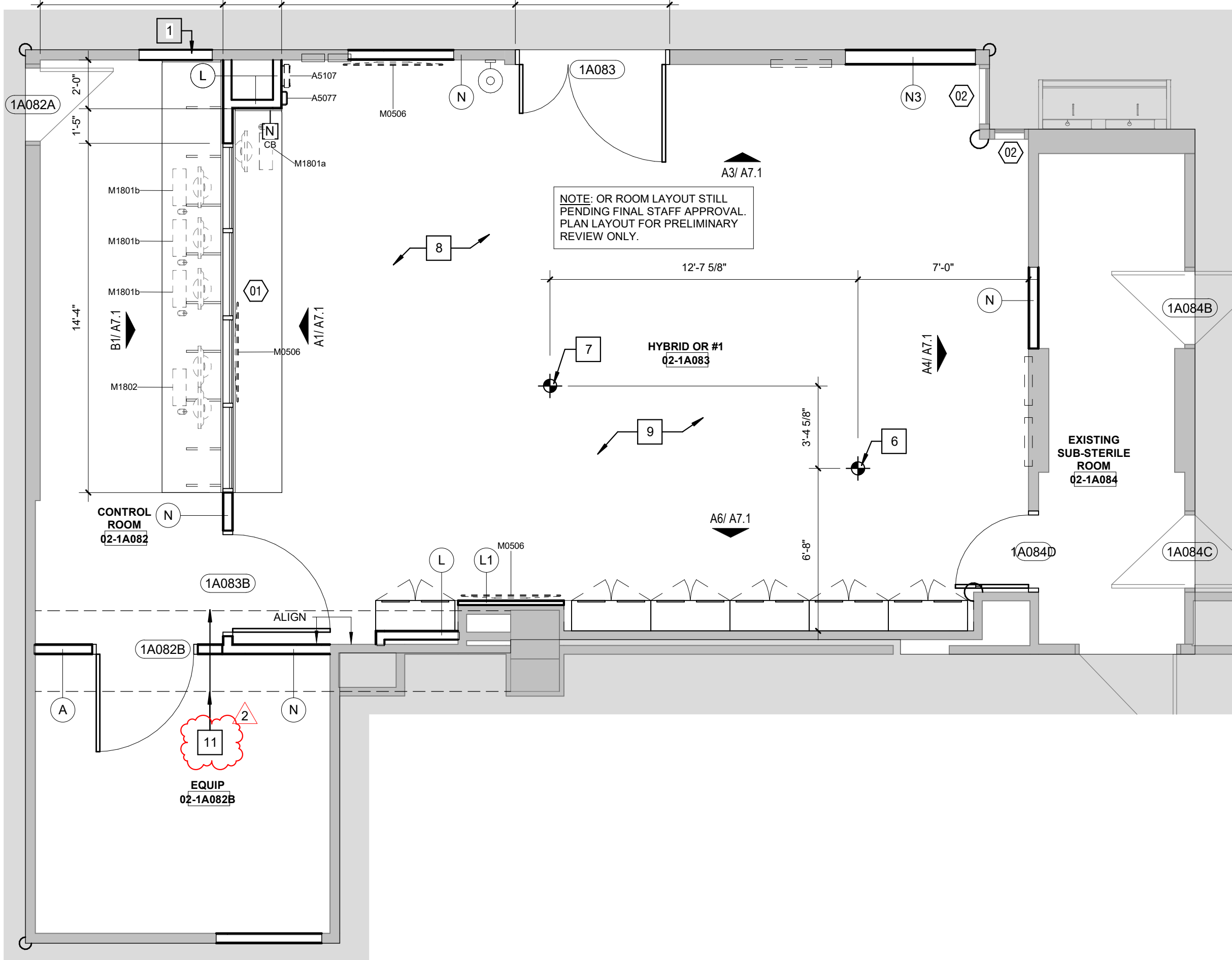
Date 5/31/2022
Job Number 3-20034
Drawn By BD
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Revision
Number Date Description
2 07.13.22 ADD #2 - CITY

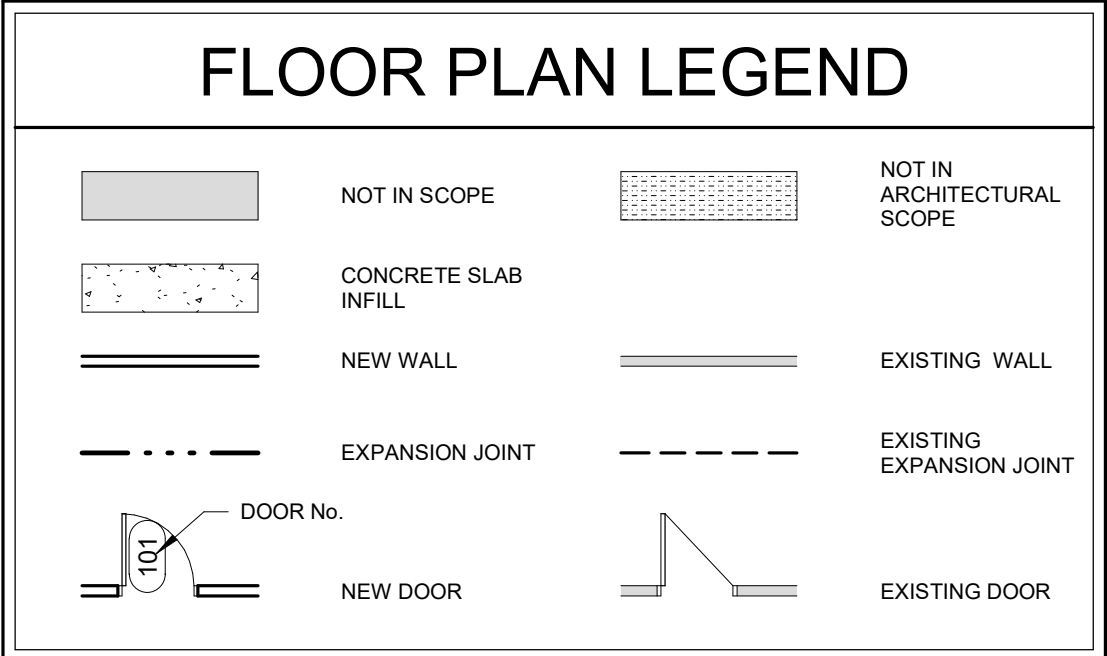
FFE SCHEDULE			
JSN	DESCRIPTION	RESPONSIBILITY	COMMENTS
A4015	LEICA CM MACHINE	VFVI	REINSTALLED FROM EXISTING OR
A5075	CLOCK	OFOI	
A5077	Dispenser, Hand Sanitizer	OFOI	
A5082	PAPER TOWEL DISPENSER	OFOI	
A5107	GLOVE BOX	OFOI	
E0222	48" WORK STATION WITH UPPER CABINETS	VFCI	BY J.A. MARSHALL
E0963	CART	OFOI	
F0205	SIDE CHAIR, W/ ARMS	OFOI	BY J.A. MARSHALL
F0300	CHAIR, TASK, SWIVEL, W/ ARMS	VFVI	BY J.A. MARSHALL
F0415	42"W FILE CABINET	VFVI	BY J.A. MARSHALL
F0740	SIDE TABLE	OFOI	
M2055	Monitor, Television	OFOI	
M1801a	COMPUTER MONITOR	OFOI	POWER & DATA REQUIRED
M1801b	COMPUTER MONITOR	VFVI	POWER & DATA REQUIRED
M1802	DUAL COMPUTER MONITOR W/ KEYBOARD AND MOUSE	VFVI	POWER & DATA REQUIRED
M2055	WIRE SHELVING, 60"Wx24"Dx68"H	OFOI	
M8820	STAINLESS STEEL TABLE, 24"x48"x144"	OFOI	
U1001	SHOULDER POSITIONER	OFOI	
U1002	OPHTHALMOLOGY LIGHT	OFOI	
U1003	LIPRODUCTION TOWER	OFOI	
U1004	ALLY UTERINE POSITIONER	OFOI	
U1005	MINI CARM	OFOI	
U1006	PNEUMATIC TOURNIQUET	OFOI	
U1007	SPARGO ULTRASOUND	OFOI	
U1008	MOBILE MONITOR CART	OFOI	
U1009	AQUILEY FLUID CONTROL SYSTEM	OFOI	
U1010	STERIS SURGICAL TABLE	OFOI	
U1011	VERSANA PREMIER ULTRASOUND UNIT	OFOI	
U1012	ORTHO GLASS CART	OFOI	
U1013	MEDTRONIC IPC	OFOI	
U1014	MIZUHOSI POSITIONER	OFOI	
U1015	LEICA MICROSCOPE	OFOI	
U1016	STRYKER SPY PH TOWER	OFOI	
U1017	TRIDENT TOWER	OFOI	
U1018	OLYMPUS SHOCK-PULSE UNIT	OFOI	
U1019	AQUAMANTYS SYSTEM	OFOI	
U1020	BACK TABLE	OFOI	
U1021	OLYMPIC PLASMA BUTTON TOWER	OFOI	
U1022	CAUTERY CART	OFOI	
U1023	NOVAASURE TOWER	OFOI	
U1024	FUSION ENT NAVIGATION TOWER	OFOI	
U1025	ARTHREX TOWER SYSTEM	OFOI	
U1026	NIM RESPONSE CART	OFOI	
U1027	BERKLEY SUCTION D&C MACHINE	OFOI	
U1028	STEPPER/ POSITIONER	OFOI	
U1029	FLAT PLATE XRAY	OFOI	
U1030	POSITIONER (TENANT)	OFOI	
U1031	CELL SAVER CART	OFOI	
U1032	WALL HOOKS	OFOI	BLOCKING REQUIRED
U1033	BIOHAZARD BOX	OFOI	
U1034	LEICA CM MACHINE	OFOI	
U1035	FLAMMABLE BOX	OFOI	



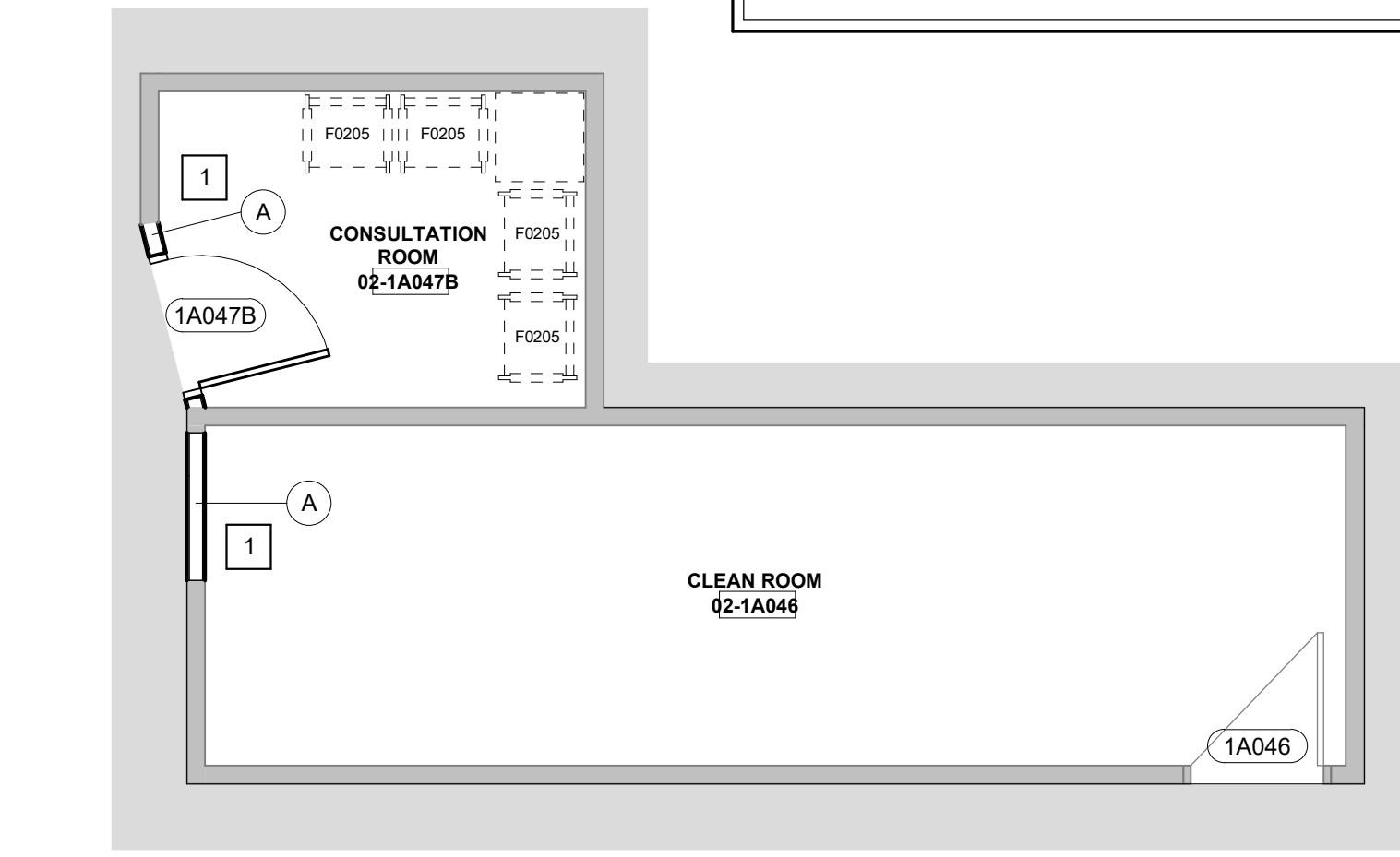
C5 HYBRID OR EQUIPMENT PLAN
1/4" = 1'-0"



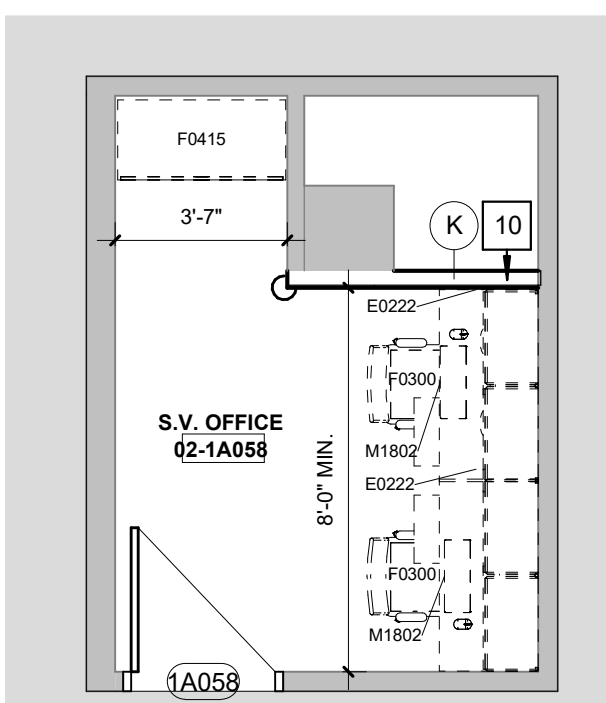
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1/4" = 1'-0"



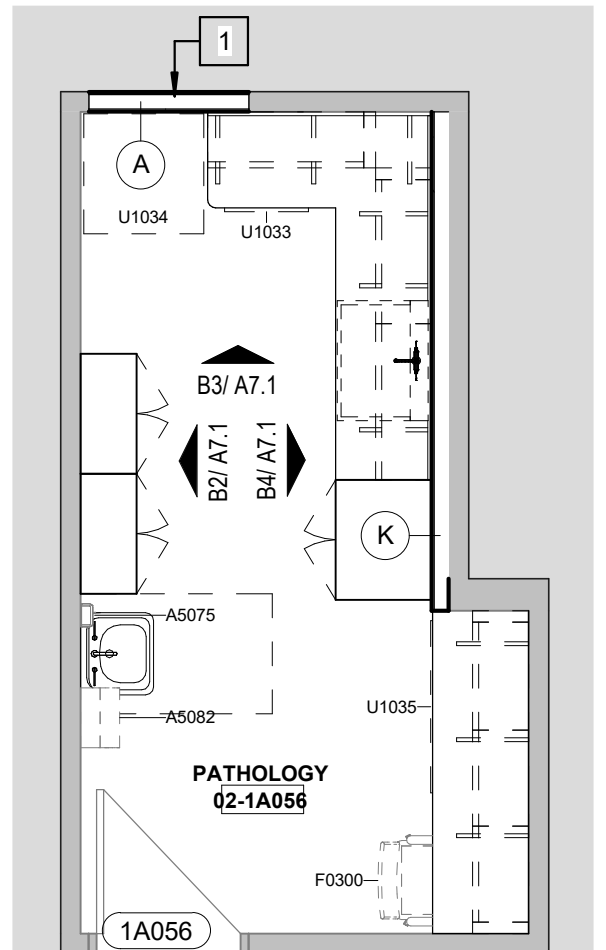
KEYNOTES - FLOOR PLAN	
#	COMMENTS
1	INFILL EXISTING OPENING WITH NEW CONSTRUCTION TO MATCH ADJACENT WALL THICKNESS, FIRE RATING, AND FINISH
2	APPLY BLACKOUT FILM OVER EXISTING WINDOW
3	INSTALL FIRE RATED BACKING FOR WALL HUNG EQUIPMENT AS DIRECTED BY STAFF
4	STORAGE ROOM EQUIPMENT AND SHELVING TO BE LOCATED BY STAFF. LAYOUT ON PLAN IS NOT FINAL
5	ISO CENTER OF ROOM. RE. RCP, AND VENDOR DRAWINGS FOR FINAL LOCATION
6	ISO CENTER OF MAST. RE. VENDOR DRAWINGS FOR FINAL LOCATION OF NEW HYBRID OR EQUIPMENT
7	ISO CENTER OF TABLE. RE. VENDOR DRAWINGS FOR FINAL LOCATION OF NEW HYBRID OR EQUIPMENT
8	EXISTING WALLS TO RECEIVE 1/16" LEAD LINING. REMOVE EXISTING WALL FINISH AS NEEDED AND REPLACE WITH NEW GYP AND FINISHES
9	COORDINATE FLOOR DEMO WITH STRUCTURAL ENGINEER AND VENDOR DRAWINGS
10	LOCATE NEW WALL TIGHT TO EXISTING COLUMN - 8'-0" MIN. CLEARANCE REQUIRED TO COORDINATE WITH NEW WORKSTATION
11	CORE A MAXIMUM OF 12" DIAMETER HOLE THROUGH THE MID-DEPTH OF THE GRADE BEAM. LOCATED NEAR MID-SPAN OF THE GRADE BEAM. THE GRADE BEAM IS 24" WIDE AND 30" DEEP. THE TOP OF GRADE BEAM IS 8" BELOW SLAB-ON-GRADE. MULTIPLE CONDUITS CAN RUN THROUGH THIS 12" CORE. IF ADDITIONAL CORE IS REQUIRED, FOLLOW THE SAME PROCEDURE. THE 2ND CORE NEEDS TO BE AT LEAST 2' AWAY FROM THE FIRST CORE (2' CLEAR).



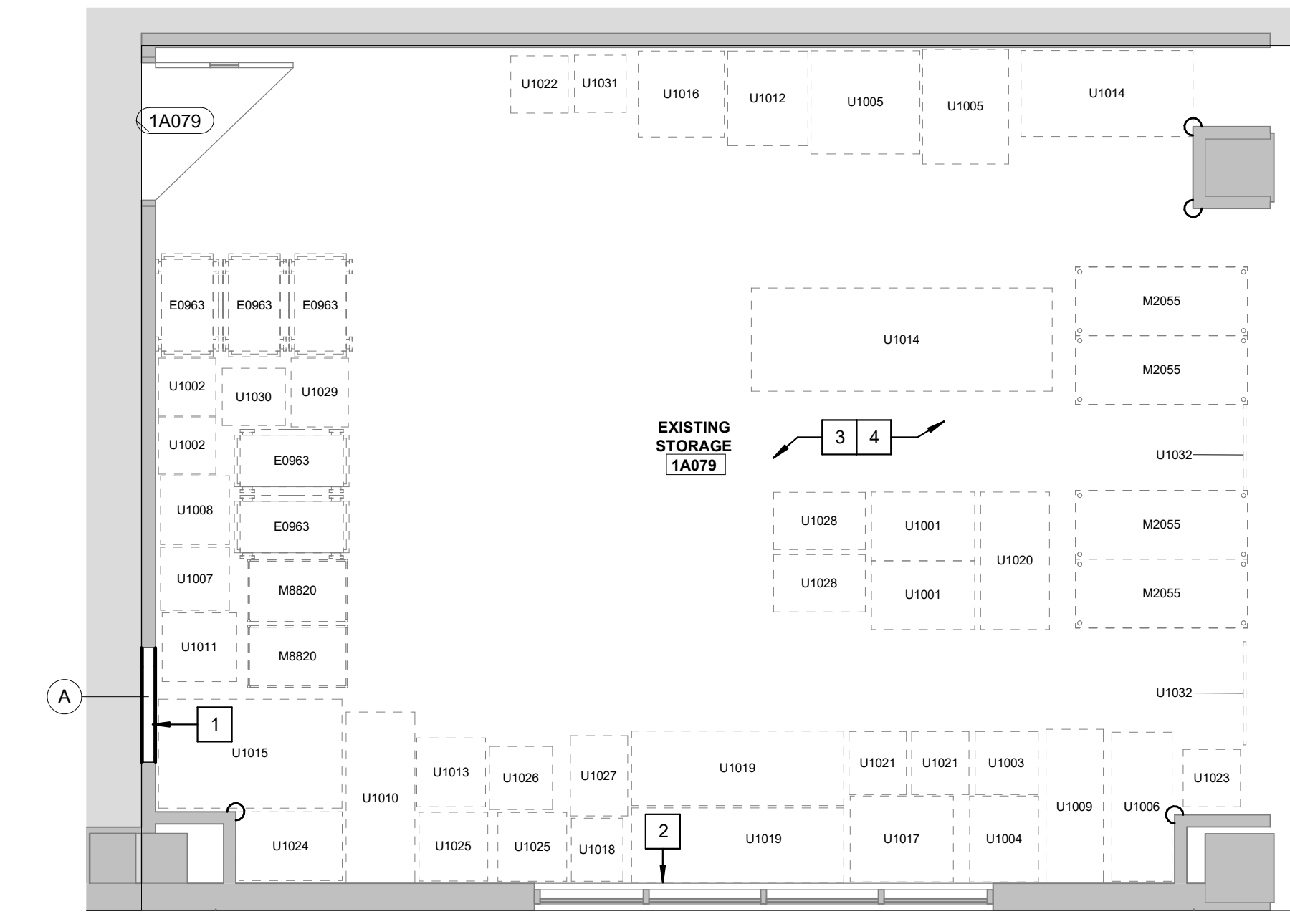
C2 CLEAN ROOM AND CONSULTATION ROOM
1/4" = 1'-0"



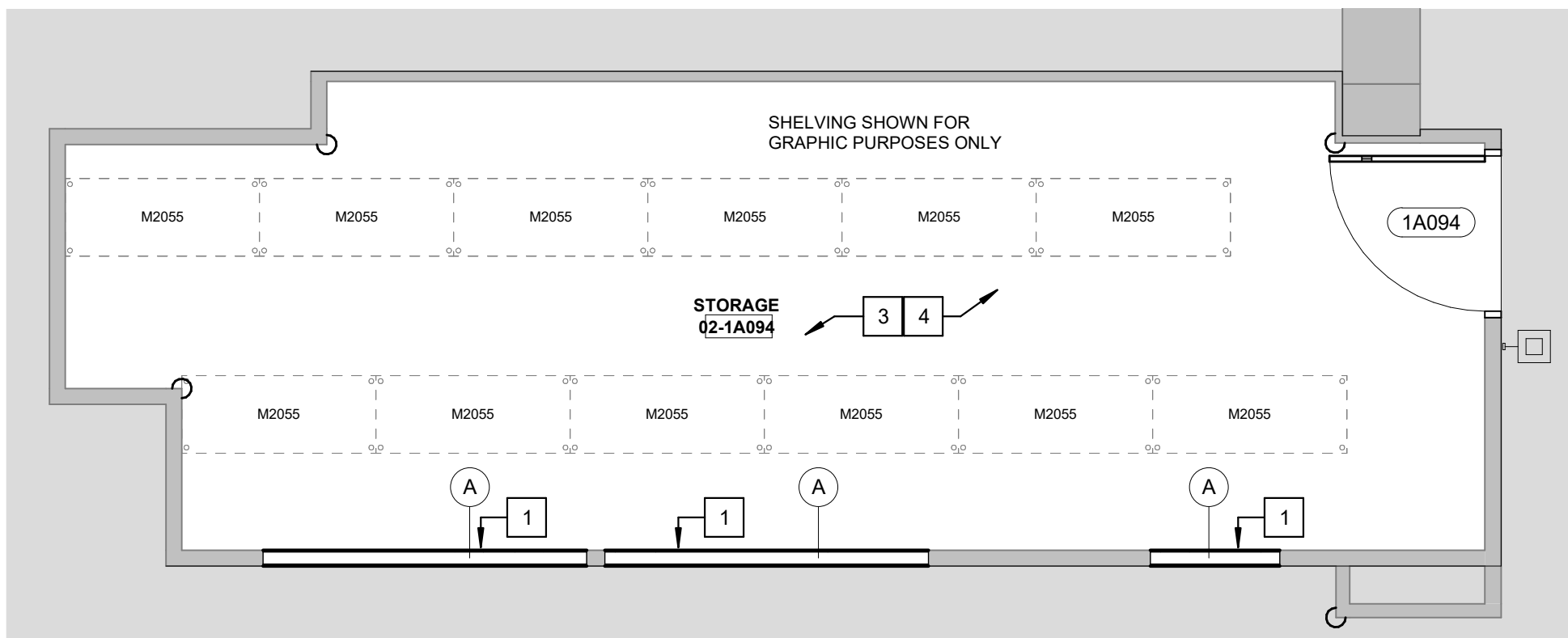
B3 S.V. OFFICE 02-1A056
1/4" = 1'-0"



A3 PATHOLOGY ROOM 1A056
1/4" = 1'-0"



B2 EXISTING STORAGE 1A079
1/4" = 1'-0"



A2 STORAGE 1A094
1/4" = 1'-0"

STATE OF MISSOURI

SAMUEL K. BOLAND

ARCHITECT

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License - Missouri WA-2011012130

ACI

BOLAND

ARCHITECTS

1710 Wyandotte

Kansas City, MO 64108

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IMEG Corp.

1600 Baltimore, Suite 300

Kansas City, Missouri 64108

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Missouri: #F001325536

SLE HYBRID OR

100 NE Saint Luke's Blvd

Lee's Summit, MO 64086

Date

5/31/2022

Job Number

3-20034

Drawn By

Author

Checked By

Checker

Revision

Number

Date

Description

2

07.13.22

ADD #2 - CITY

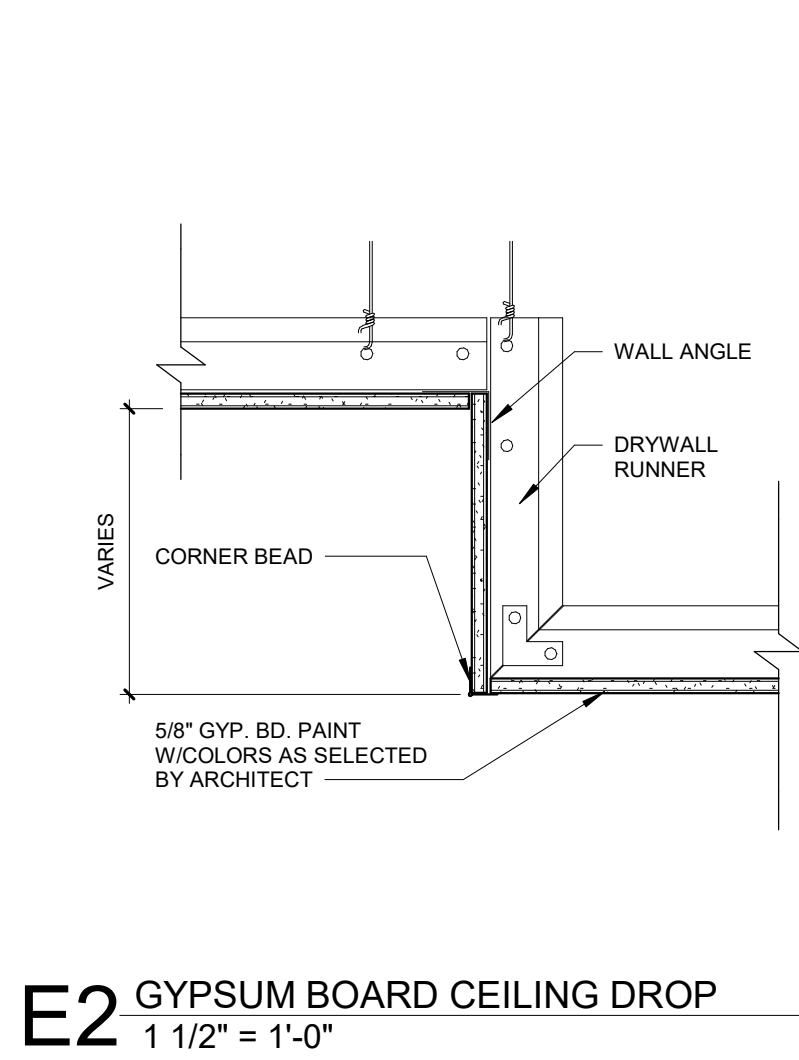
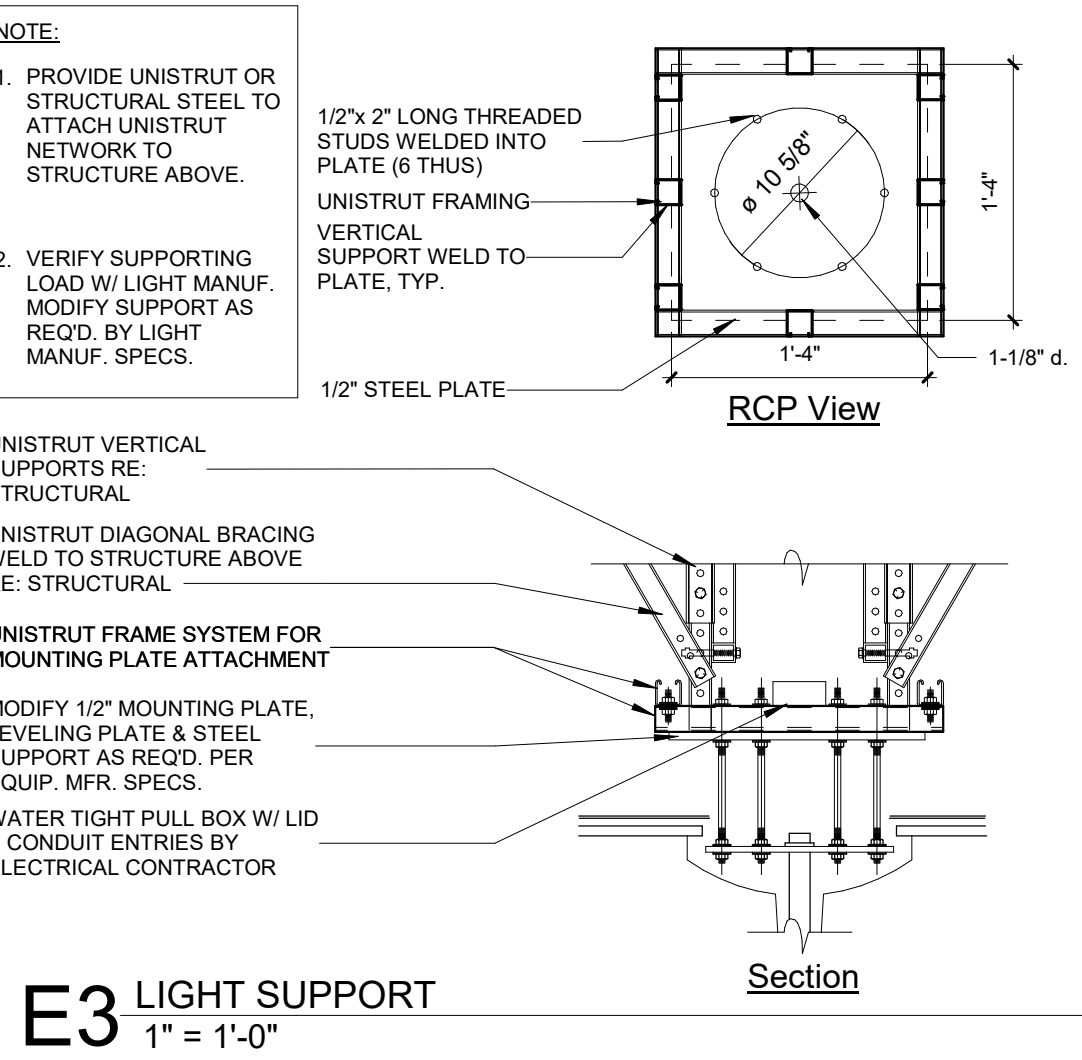
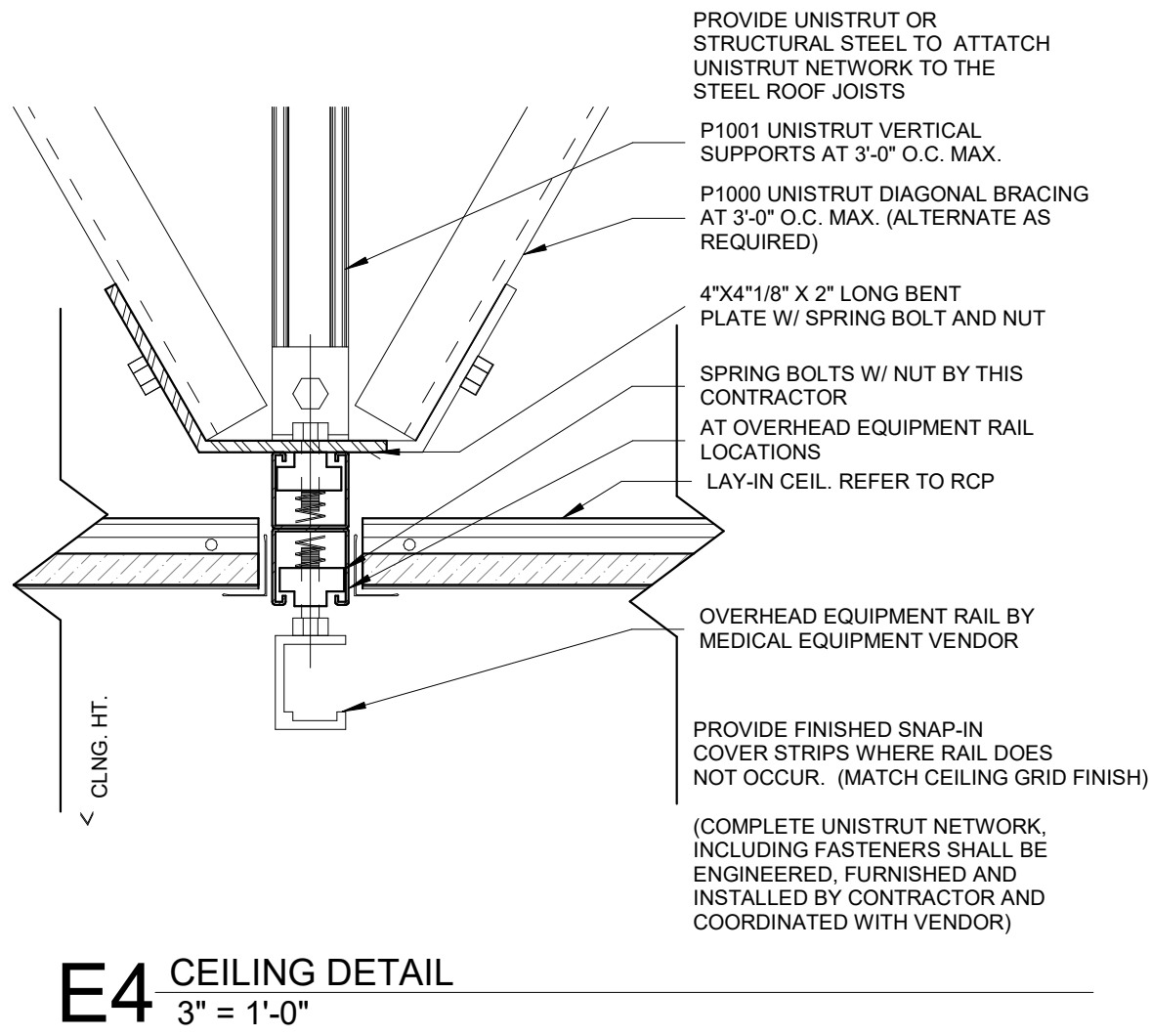
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ENLARGED PLANS

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REFLECTED CEILING NOTES

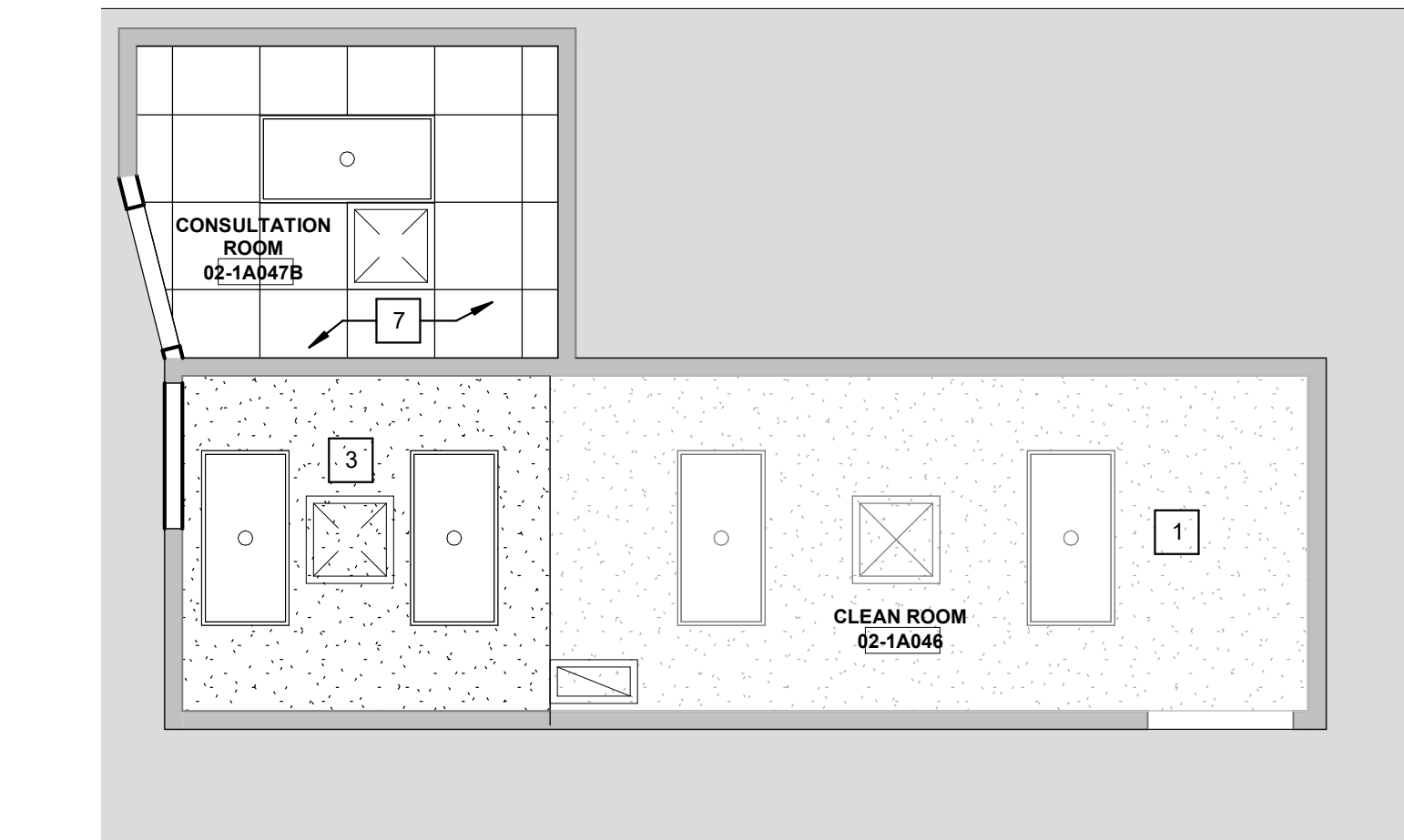
1. EXISTING MEPPF DEVICES SHOWN ARE BASED ON EXISTING DRAWINGS AND/OR FIELD OBSERVATIONS. THE OWNER/ARCHITECT DOES NOT GUARANTEE THE ACCURACY/LOCATION OR QUANTITY OF EXISTING DEVICES.
2. CONTRACTOR TO PROVIDE ALL REQUIRED LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO MEET AND COMPLETE THE REQUIREMENTS OF THE NEW CONSTRUCTION.
3. ALL EXISTING CONSTRUCTION TO REMAIN SHALL BE PATCHED, REPAIRED, AND PREP AS REQUIRED FOR NEW FINISH APPLICATION.
4. SEE FINISH SCHEDULE FOR FINISH LOCATION AND SPECIFICATIONS.
5. THIS PLAN SHALL BE USED TO COORDINATE THE CEILING LAYOUT WITH MECHANICAL AND ELECTRICAL WORK. VERIFY THE EXACT QUANTITY REQUIRED.
6. CONTRACTOR TO REFER TO THE ELECTRICAL PLANS FOR ACTUAL LIGHTING SIZES AND FIXTURE TYPES.
7. SEE SPECIFICATIONS FOR CEILING TYPES.
8. REFER TO ARCHITECTURAL FLOOR PLANS FOR MATERIAL LEGEND OF ALL TYPES.
9. ALL CEILINGS SHALL BE 9'-0" AFF UNLESS OTHERWISE NOTED.

CEILING LEGEND

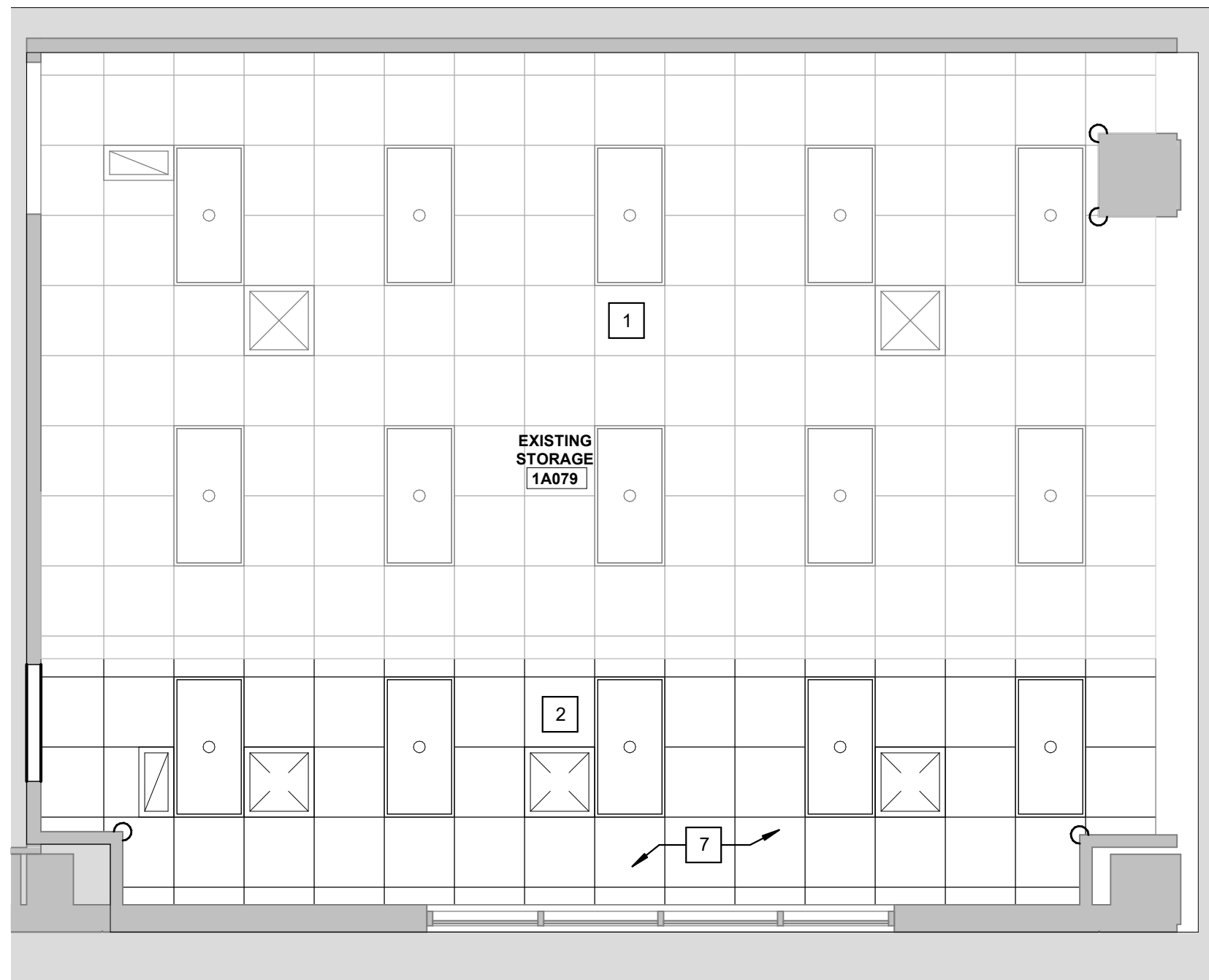
- RECESSED CAN LIGHT FIXTURE RE: ELECT
- 2'X4' RECESSED/SURFACE LED LIGHT FIXTURE RE: ELECT
- 2'X2' RECESSED/SURFACE FLUORESCENT LIGHT FIXTURE RE: ELECT
- ▨ 2'X2'X4" LAY-IN ACOUSTICAL CEILING
- ☒ SUPPLY AIR GRILLE RE: MECH
- ☒ RETURN AIR OR EXHAUST GRILLE RE: MECH
- 9'-0" SOFFIT HEIGHT
- 9'-0" CEILING HEIGHT

KEYNOTES - RCP

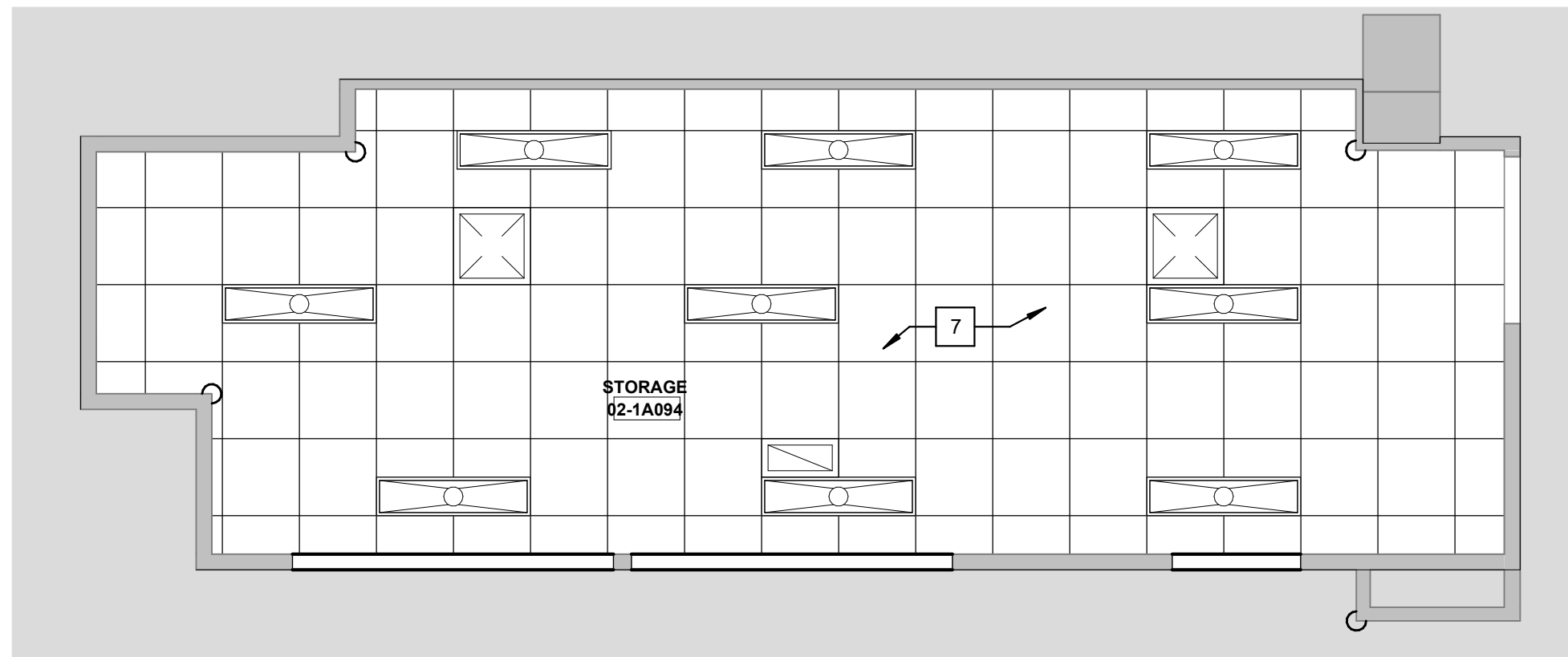
Number	Comments
1	EXISTING CEILING TO REMAIN
2	TIE IN NEW CEILING GRID INTO EXISTING CEILING GRID
3	NEW GYP. BD. CEILING TO TIE INTO EXISTING GYP. BD. CEILING. MATCH EXISTING HEIGHT.
4	ISOCENTER OF MAST RE: VENDOR DRAWINGS FOR NEW HYBRID OR EQUIPMENT.
5	ISOCENTER OF TABLE RE: VENDOR DRAWINGS FOR NEW HYBRID OR EQUIPMENT.
6	ISOCENTER OF ROOMS RE: VENDOR DRAWINGS FOR FINAL LOCATION - RE: E3A3.1 FOR LIGHT SUPPORT DETAIL
7	REF. MECHANICAL AND ELECTRICAL FOR CEILING LAYOUT
8	OPEN TO STRUCTURE
9	DIFFUSER ARRAY WITH INTEGRATED LIGHT SYSTEM DEFERRED SUBMITTAL



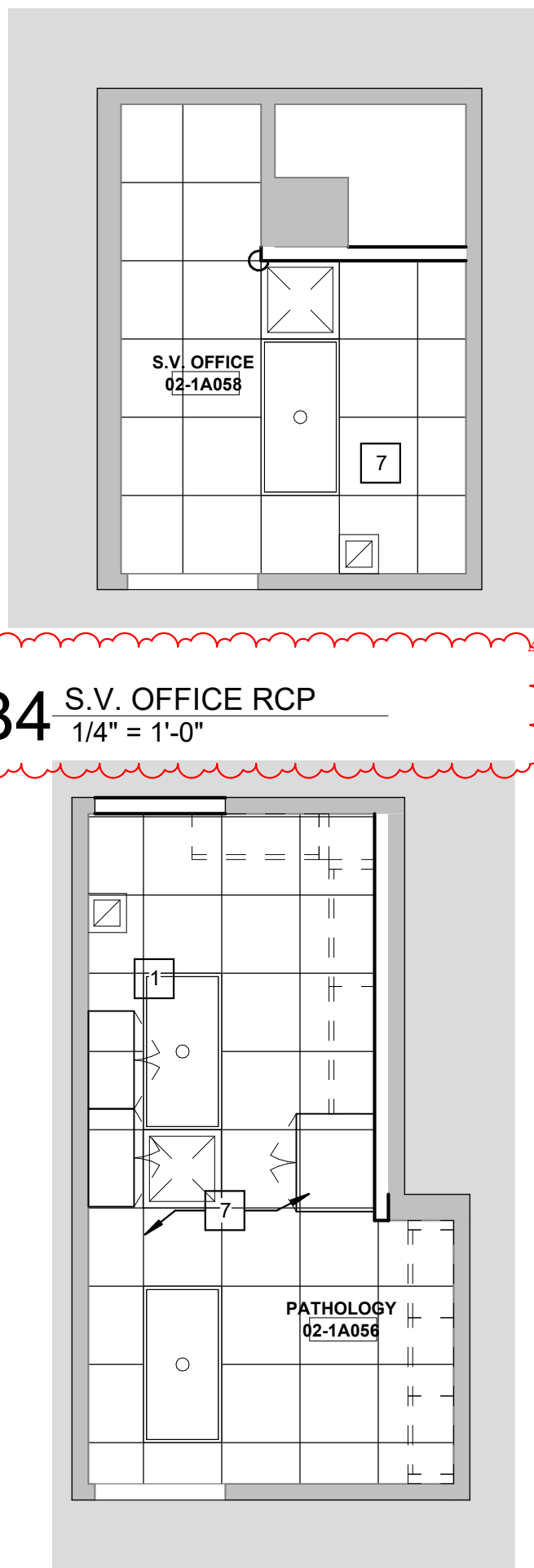
C3 CLEAN ROOM RCP
1/4" = 1'-0"



B3 STORAGE RCP
1/4" = 1'-0"

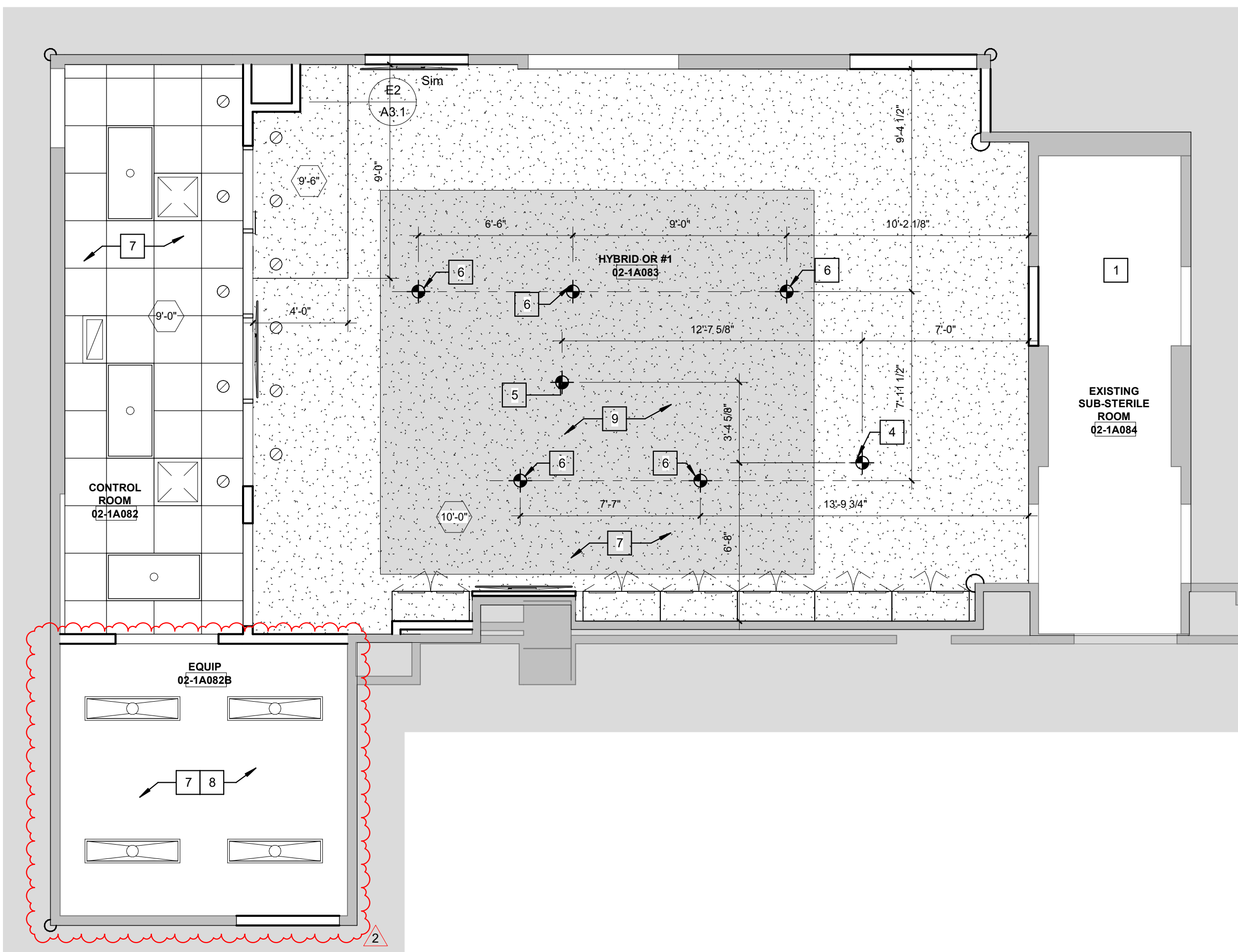


A3 STORAGE ROOM RCP
1/4" = 1'-0"



B4 S.V. OFFICE RCP
1/4" = 1'-0"

A4 PATHOLOGY RCP
1/4" = 1'-0"



A5 HYBRID OR RCP
1/4" = 1'-0"



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ACI
BOLAND
ARCHITECTS

1710 Wyandotte
Kansas City, MO 64108
T: 816.763.9600

ACI/Boland, Inc.
Kansas City | St. Louis
Licensee's Certificate of Authority Number:
Missouri: #000958

MEP CONSULTANT

IMEG Corp.
1600 Baltimore, Suite 300
Kansas City, Missouri 64108
T: 816.842.8437
Licensee's Certificate of Authority Number:
Missouri: #F001325536

SLE HYBRID OR
100 NE Saint Luke's Blvd
Lee's Summit, MO 64086

Date 5/31/2022
Job Number 3-20034
Drawn By AF
Checked By Checker

Revision
Number Date Description
2 07.13.22 ADD #2 - CITY

A3.1

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FIRST FLOOR REFLECTED CEILING
PLAN

DOOR AND HARDWARE NOTES

- DOOR OPENING DEVICES SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST. DOOR KNOBS ARE PROHIBITED.
- ALL MEANS OF EGRESS DOORS SHALL BE READILY OPENABLE FROM THE SIDE FROM WHICH EGRESS IS TO BE MADE WITHOUT THE USE OF SPECIAL TOOLS, A KEY, SPECIAL KNOWLEDGE OR EFFORT. DOUBLE KEYED DEAD BOLTS ARE PROHIBITED.
- PROVIDE HARDWARE INCLUDING, BUT NOT LIMITED TO THAT SHOWN IN THE HARDWARE GROUPS FOR THE NORMAL OPERATION AND USE OF EACH DOOR, MAKE RECOMMENDATIONS FOR ADDITIONAL ITEMS IN HARDWARE SUBMITTAL AS REQUIRED.
- ALL HARDWARE SHALL BE IN COMPLIANCE WITH ADA GUIDELINES AND NATIONAL BUILDERS HARDWARE ASSOCIATION STANDARDS.
- HARDWARE TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
- CONTRACTOR TO SUBMIT DOOR AND HARDWARE SHOP DRAWINGS TO OWNER FOR REVIEW PRIOR TO WORK BEING PERFORMED. FAILURE TO SUBMIT DRAWINGS RESULTS IN THE CONTRACTOR ASSUMING ALL RESPONSIBILITY AT THEIR OWN EXPENSE.
- OWNER WILL SUPPLY PERMANENT CORES.

STATE OF MISSOURI

SAMUEL BECKWITH

ARCHITECT

7/13/2022 11:15:51 AM

JOHN H. LEONARDI - PARTNER
License - Missouri WA-2011012130

ACI

BOLAND

ARCHITECTS

1710 Wyandotte
Kansas City, MO 64108
T: 816.763.9600

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Lee's Summit, MO 64086

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Drawn ByAuthor

Checked ByChecker

Revision

NumberDateDescription

207.13.22ADD #2 - CITY

A4.1

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DOOR AND FRAME SCHEDULE AND DETAILS

DOOR SCHEDULE

DOOR #	ROOM NAME	DOOR INFORMATION				FRAME INFORMATION				OPENING		REMARKS	REV #
		WIDTH	HEIGHT	NO. OF LEAVES	UNEQUAL LEAF WIDTH	ELEV.	MATL.	ELEV.	MATL.	GLAZING	LABEL	HARDWARE SET	
1A046	CLEAN ROOM	3'-0"	7'-0"	1		F	WD	1	HM	--	45 min	4	
1A047B	CONSULTATION ROOM	3'-0"	7'-0"	1		F	WD	1	HM	--	0 hr	6	
1A056	PATHOLOGY	3'-0"	7'-0"	1		F	WD	1	HM	--	0 hr	5	
1A058	S.V. OFFICE	3'-0"	7'-0"	1		F	WD	1	HM	--	0 hr	5	
1A079		4'-0"	7'-0"	1		V	WD	1	HM	--	45 min	4	
1A082A	CONTROL ROOM	3'-0"	7'-0"	1		F	WD	1	HM	--	0 hr	4	
1A082B	EQUIP	4'-0"	7'-0"	1		F	WD	1	HM	--	0 hr	1	
1A083	HYBRID OR #1	4'-0"	7'-0"	2	2'-0"	F / F	WD	2	HM	--	0 hr	2	
1A083B	HYBRID OR #1	4'-0"	7'-0"	1		F	WD	1	HM	--	0 hr	3	
1A084D	HYBRID OR #1	3'-0"	7'-0"	1		N	WD	1	HM	T	0 hr	3	
1A094	STORAGE	4'-0"	7'-0"	1		N	WD	1	HM	FR	45 min	7	

DOOR & FRAME MAT'L LEGEND	
T	1/4" CLEAR, TEMPERED GLAZING
HM	HOLLOW METAL
WD	SOLID CORE WOOD
ETR	EXISTING TO REMAIN
FR	FIRE-RATED, IMPACT RESISTANT SAFETY GLAZING

FRAME ELEVATIONS:

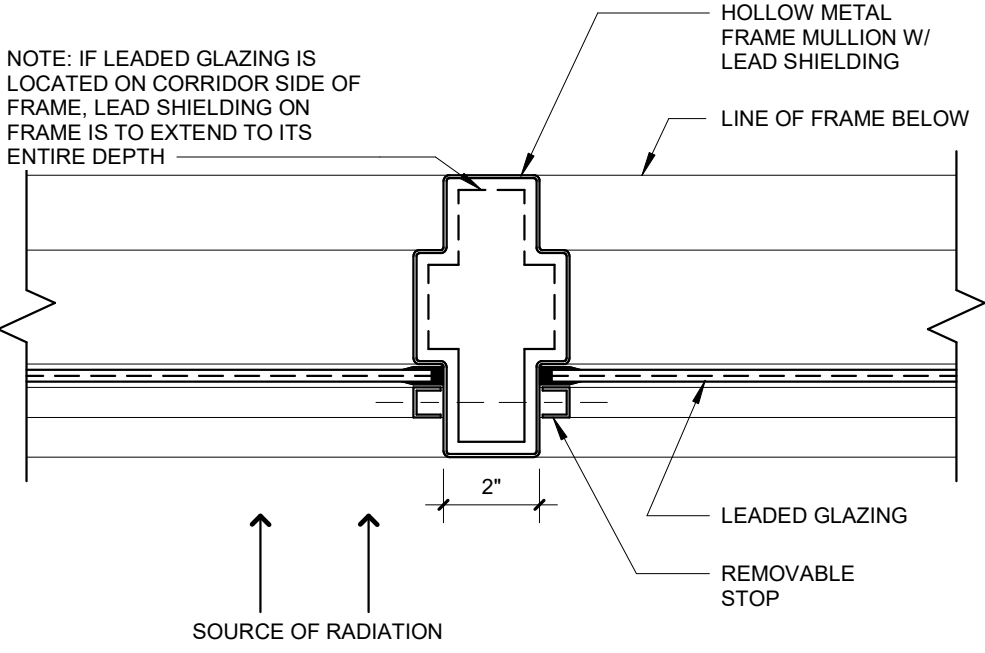
DOOR ELEVATIONS:

GLASS ELEVATION:

DOOR HARDWARE

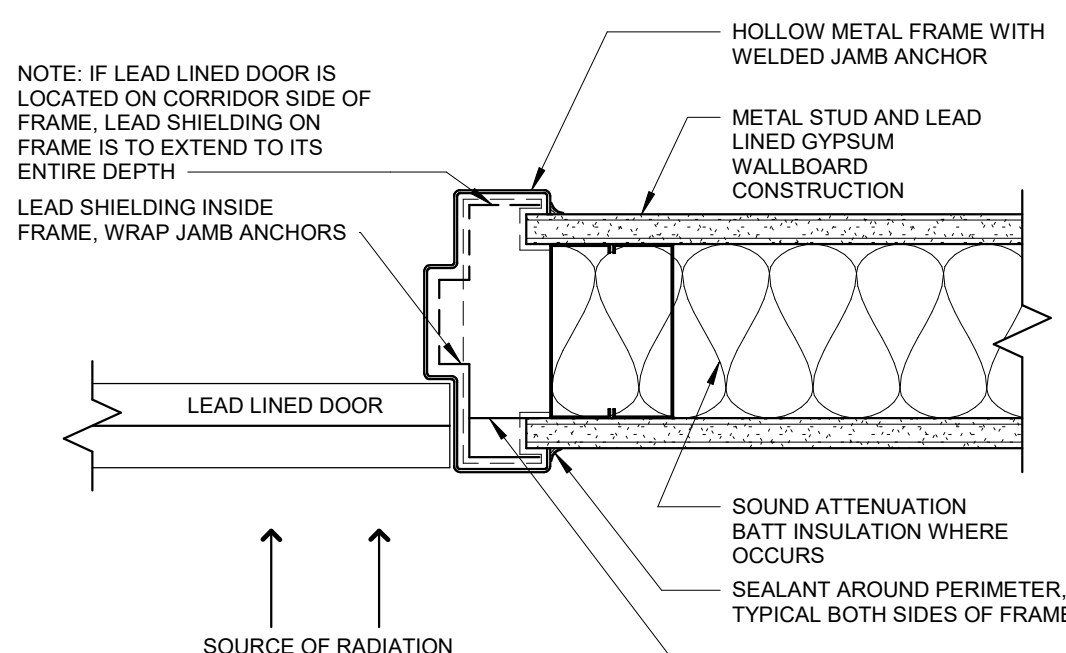
HARDWARE SET: 1 DOOR NUMBER: 1A082B EACH TO HAVE:			
QTY DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3 EA HINGE	5B81HW	652	IVE
1 EA STOREROOM LOCK	N080LD RHO	626	SCH
1 EA CYLINDER BY OWNER		626	SCH
1 EA OH STOP	90S	630	GLY
1 EA KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1 EA WALL STOP	WS406407CCV	630	IVE
1 EA GASKETING	48S8BK PSA	BK	ZER
HARDWARE SET: 2 DOOR NUMBER: 1A083 EACH TO HAVE:			
QTY DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2 EA PIVOT SET	7215 SET	626	IVE
2 EA INTERMEDIATE PIVOT	7215 INT	626	IVE
2 EA MAGNETIC LOCK	M420P 1224 VDC	626	SCE
(TO INTERFERENCE WITH EQUIPMENT MANUFACTURER, IF REQUIRED)			
2 EA PUSH PLATE	8200 4" X 16"	630	IVE
2 EA DOOR PULL	8121 P	626	IVE
1 EA AUTO OPERATOR	4000 LE SERIES	689	HOR
2 EA ACTUATOR, TOUCHLESS	8310-810S	630	LON
1 EA PRESENCE SENSOR	SUPERSCAN		BIA
2 EA ARMOR PLATE	8402 34" X 1" LDW B-CS	630	IVE
1 EA GASKETING	48S8BK PSA	BK	ZER
1 EA ASTRAGAL	LEAD LINED BY DOOR SUPPLIER		
HARDWARE SET: 3 DOOR NUMBER: 1A083B 1A084D EACH TO HAVE:			
QTY DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1 EA PIVOT SET	7215 SET	626	IVE
1 EA INTERMEDIATE PIVOT	7215 INT	626	IVE
1 EA PUSH/PULL LATCH	HL6 9010 2 3/4" A L	630	SCH
1 EA SURFACE CLOSER	4404XP EDA	689	LON
1 EA KICK PLATE	8400 10" X 2" LDW B-N-H-A	630	IVE
1 EA WALL STOP	WS406407CCV	630	IVE
1 EA GASKETING	48S8BK PSA	BK	ZER
HARDWARE SET: 4 DOOR NUMBER: 1A046 1A079 1A082A EACH TO HAVE:			
QTY DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1 EA PIVOT SET	7215 SET	626	IVE
1 EA INTERMEDIATE PIVOT	7215 INT	626	IVE
1 EA PUSH/PULL LATCH	HL6 9010 2 3/4" A L	630	SCH
1 EA SURFACE CLOSER	4404XP EDA	689	LON
1 EA KICK PLATE	8400 10" X 2" LDW B-N-H-A	630	IVE
1 EA WALL STOP	WS406407CCV	630	IVE
1 EA GASKETING	48S8BK PSA	BK	ZER
HARDWARE SET: 5 DOOR NUMBER: 1A056 1A058 EACH TO HAVE:			
QTY DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1 EA ENTRANCE LOCK	N053LD RHO	626	SCH
1 EA CYLINDER BY OWNER		626	SCH
1 EA NOTE	REMANINDER OF HARDWARE EXISTING		
HARDWARE SET: 6 DOOR NUMBER: 1A047B EACH TO HAVE:			
QTY DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3 EA HINGE	5B81HW	652	IVE
1 EA PASSAGE SET	N010S RHO	626	SCH
1 EA SURFACE CLOSER	4404XP	689	LON
1 EA KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1 EA WALL STOP	WS406407CCV	630	IVE
1 EA GASKETING	48S8BK PSA	BK	ZER
HARDWARE SET: 7 DOOR NUMBER: 1A094 EACH TO HAVE:			
QTY DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1 EA NOTE	LOW VOLTAGE POWER BY SECURITY	B/O	
1 EA NOTE	REMANINDER OF HARDWARE EXISTING		
1 EA NOTE	WIRING DIAGRAM BY SECURITY	B/O	
1 EA NOTE	OPERATION: DOOR NORMALLY CLOSED AND LOCKED. ENTRY VIA VALID CARD READ. ALWAYS FREE FOR EGRESS.		

B5 HEAD - LEAD-LINED HOLLOW MTL BORROWED LITE FRAME-INTEGRAL BLINDS
3" = 1'-0"



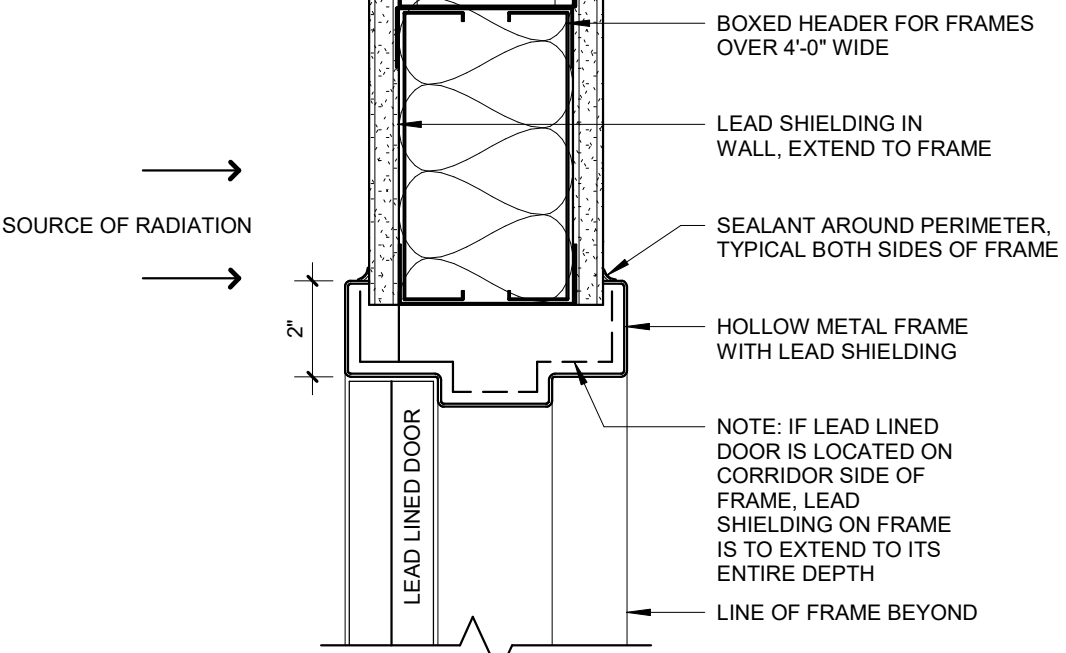
A5 JAMB - LEAD-LINED HOLLOW MTL. SIDELITE/BORROWED LITE FRAME AT MULLION
3" = 1'-0"

B4 JAMB - LEAD-LINED HOLLOW MTL. BORROWED LITE
3" = 1'-0"



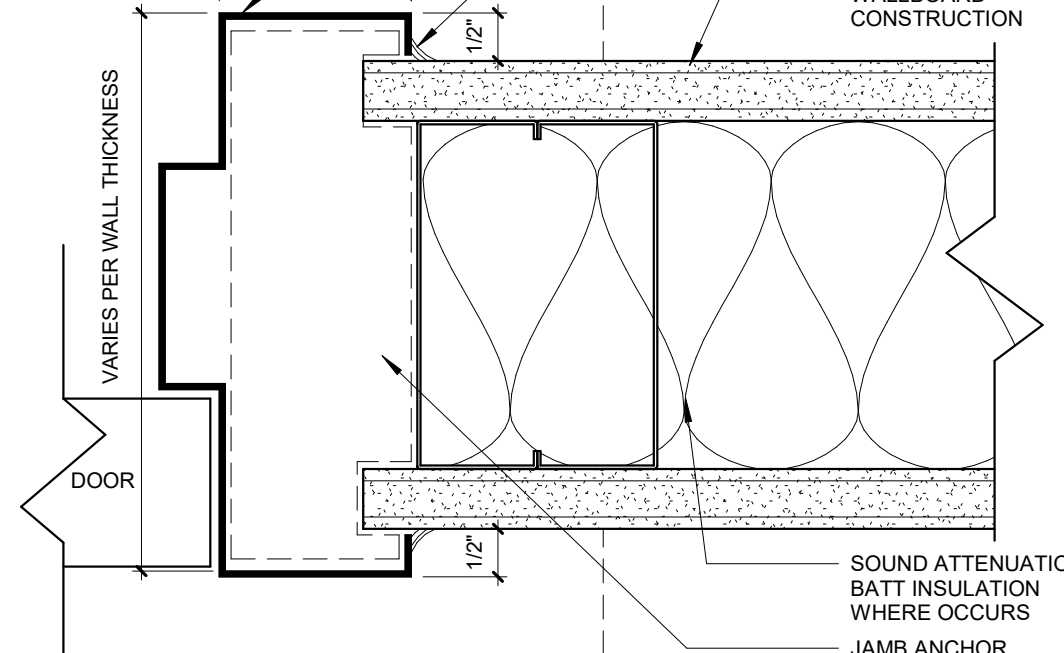
A4 JAMB - LEAD-LINED HOLLOW MTL. DOOR FRAME1
3" = 1'-0"

B3 HEAD - LEAD-LINED HOLLOW MTL. SIDELITE/BORROWED LITE FRAME1
3" = 1'-0"



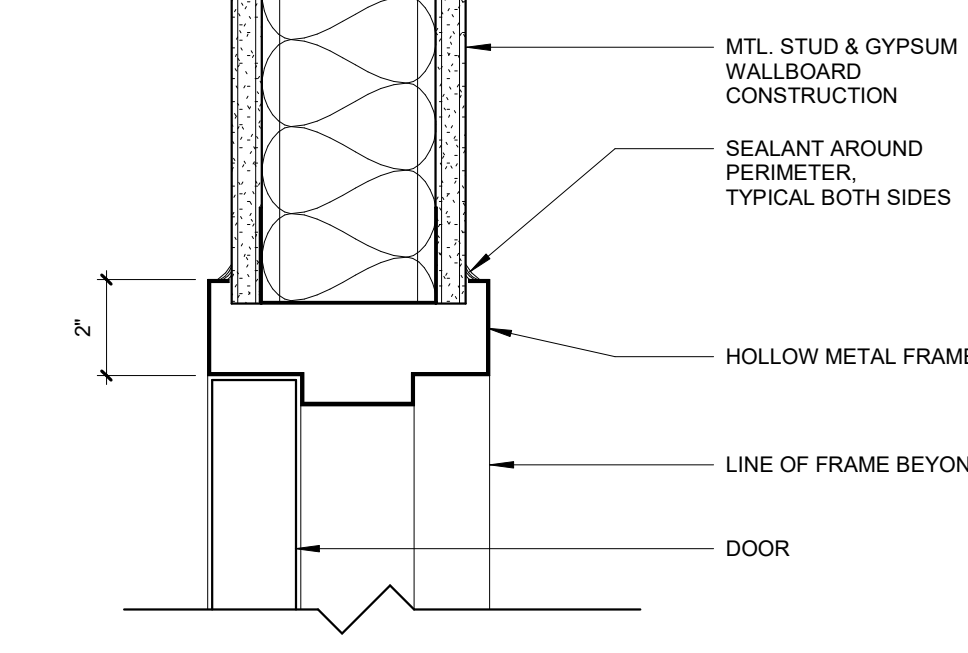
A3 HEAD - LEAD-LINED HOLLOW MTL. DOOR FRAME1
3" = 1'-0"

B2 JAMB - HOLLOW MTL. SIDELIGHT/ BORROWED LIGHT FRAME
3" = 1'-0"



A2 TYPICAL HOLLOW METAL FRAME
6" = 1'-0"

B1 SILL - HOLLOW MTL. SIDELIGHT/ BORROWED LIGHT FRAME
3" = 1'-0"



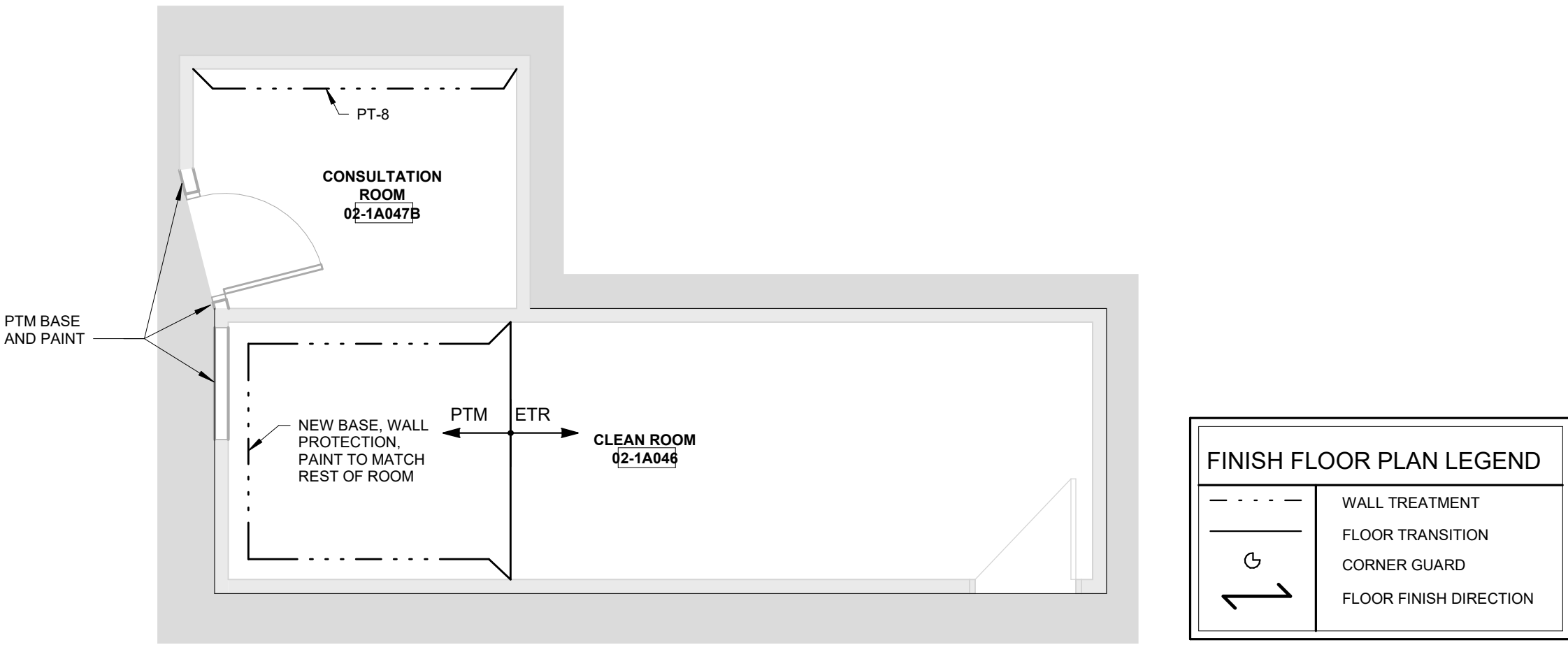
A1 TYPICAL HEAD - HOLLOW METAL DOOR FRAME
3" = 1'-0"

INTERIOR FINISH LEGEND						
MARK	ITEM	MANUFACTURER	MODEL/ PATTERN	COLOR	SIZE	REMARKS
FLOOR						
LVT-1	LUXURY VINYL TILE	MANNINGTON	AMTICO WOOD	REGENCY WALNUT ARROWOOD	4 1/2" X 36"	STRAIGHT EDGE ONLY. RANDOM OFFSET INSTALLATION
LVT-2	LUXURY VINYL TILE	MANNINGTON	AMTICO STONE	CORINTHIAN MARBLE ARDSTY13	18" X 18"	STRAIGHT EDGE ONLY. ASHLAR INSTALL
RES-1	SEAMLESS RESINOUS FLOOR COVERING	DESCO	QUARTZ CREMONA TG / OR WITH BIO-FINISH	SR0714-434TG	-	DESCO SR CO-POLYMER
RSF-1	RESILIENT SHEET FLOORING	ARMSTRONG	MEDINTONE, DIAMOND 10	#H5311 - NATURAL WHITE	6'-0" ROLL	WELD ROD W5128. HOMOGENEOUS FLOORING
BASE						
IB-1	INTEGRAL BASE	ARMSTRONG	MEDINTONE, DIAMOND 10	#H5311 - NATURAL WHITE	6" COVE	1/2" MOLD SCHLUTER STRIP AT THE TOP. TO BE USED WITH RSF-1
IB-3	SEAMLESS RESINOUS INTEGRAL COVE BASE	DESCO	QUARTZ CREMONA TG / OR WITH BIO-FINISH	SR0714-434TG	6" COVE	DESCO SR CO-POLYMER. TO BE USED WITH RES-1
RB-1	RESILIENT BASE	ROPPPE	PINNACLE	#129 DOLPHIN	4 5/8"	ALL CAMPUS - PUBLIC SPACES
RB-2	RESILIENT BASE	ROPPPE	PINNACLE	#129 DOLPHIN	4" COVE	ALL CAMPUS - SUPPORT SERVICE SPACES
WALL						
CG-2	CORNER GUARDS	C/S ACROVYN	SM-20AN-ACROVYN-4000	#933 MISSION WHITE	3"	90 DEGREE. ABOVE BASE TO CEILING/ INCLUDE ALL TRIM AND ACCESSORIES PIECES
CG-4	CORNER GUARDS	C/S ACROVYN	CO-4 STAINLESS STEEL	44 SATIN FINISH	3.5" WINGS	FLOOR TO CEILING
PT-1PT-1A	PAINT/ EPOXY PAINT	SHERWIN WILLIAMS	EGGSHELL FINISH / EPOXY FINISH	SW7008 ALABASTER	-	FIELD PAINT
PT-4	PAINT	SHERWIN WILLIAMS	SEM-GLOSS FINISH	SW7046 ANONYMOUS	-	ALL HOLLOW METAL DOOR AND WINDOW FRAMES
PT-5PT-5A	PAINT/ EPOXY PAINT	SHERWIN WILLIAMS	FLAT FINISH / EPOXY FINISH	SW7008 ALABASTER	-	CEILING PAINT
PT-8PT-8A	PAINT/ EPOXY PAINT	SHERWIN WILLIAMS	EGGSHELL FINISH / EPOXY FINISH	SW7621 SILVERMIST	-	ACCENT PAINT
WP-2	WALL PROTECTION	C/S ACROVYN	ACROVYN 4000	#933 MISSION WHITE	4' X 10' SHEETS. .040" THICK	WALL PROTECTION AT 48" AFF. INCLUDE ALL ACCESSORIES AND TRIM PIECES
WS-1	WALL SYSTEM	DESCO COATINGS	WALLGLASS FC. SMOOTH TEXTURE. GLOSS FINISH	MATCH SHERWIN WILLIAMS SW7008 ALABASTER	-	WALL GLASS FC (FIBERGLASS CLOTH) UP TO 5'-0" THEN WALLGLASS FX THE REST OF THE WALL UP TO CEILING.
CASEWORK						
MC-1	METAL CABINETS	MOTT MANUFACTURER	#601006	WARM GRAY	-	COLOR SHALL MATCH IF USING OTHER MANUFACTURER
PLAM-1	PLASTIC LAMINATE	WILSONART	#796K-12	WALNUT HEIGHT	-	CUSTOM 3MM PVC DOELKEN WALNUT HEIGHTS 870YES. RUN VERTICALLY
SSF-1	SOLID SURFACE	CORIAN	-	CLAM SHELL	1/2" - 3/8" X 144" SHEET. 36" X 144" SHEET	-
SST	STAINLESS STEEL	RE-MEP	-	-	-	-
CEILING						
ACT-1	ACOUSTIC CEILING TILE	USG	RADAR CLIMA PLUS #2210	WHITE	2' X 2'	SQUAR EDGE. DOWN DX TEE 15/16" GRID SYSTEM
MISC.						
ETR	EXISTING TO REMAIN	-	-	-	-	-
PTM	PATCH TO MATCH	-	-	-	-	-

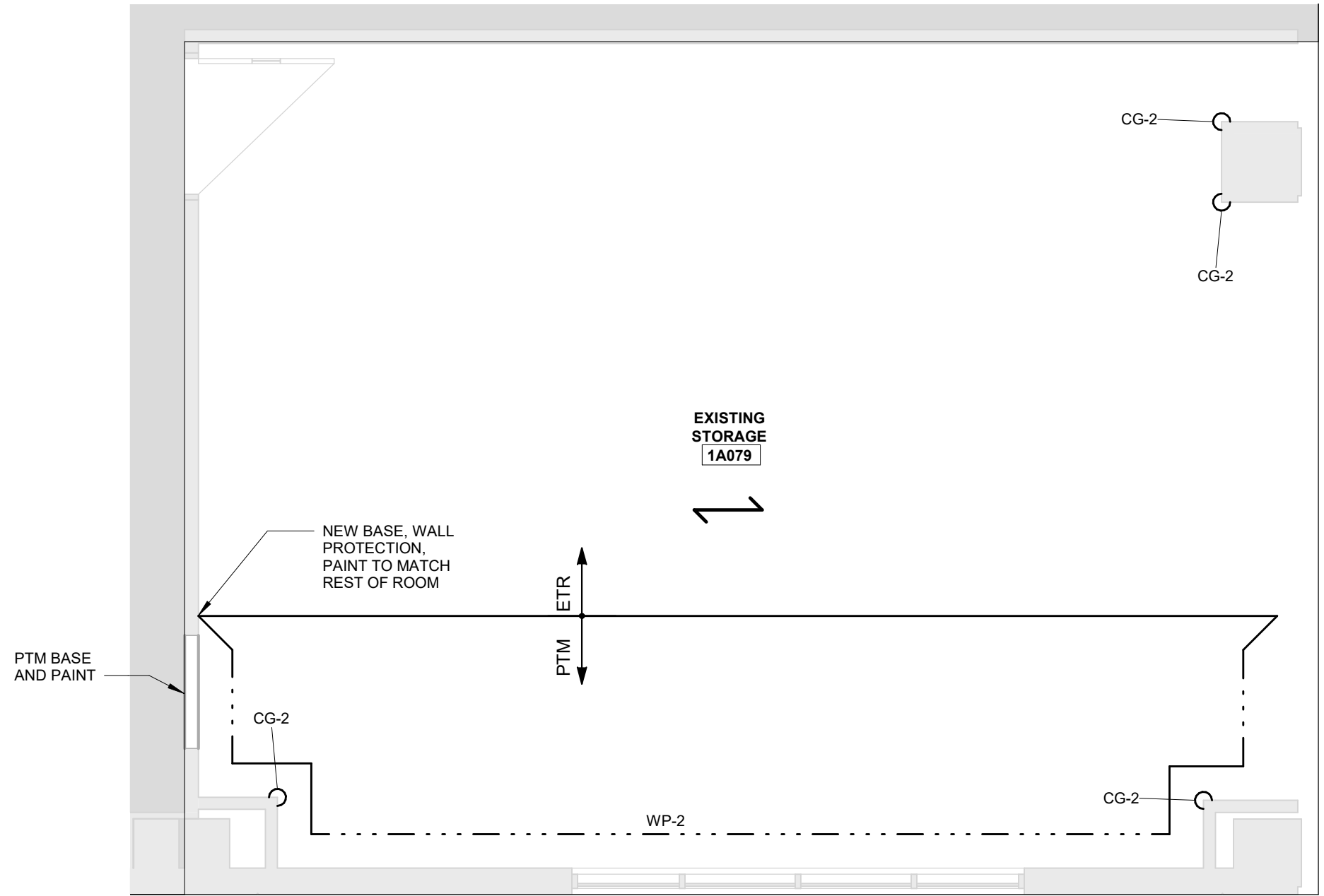
ROOM FINISH SCHEDULE												
ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE FINISH	WALLS				CASEWORK			CEILING	NOTES
				NORTH	EAST	SOUTH	WEST	BASE CABINETS	WALL CABINETS	COUNTERTOPS		
1A079	EXISTING STORAGE	LVT-2	RB-2	PT-1 / WP-2	PT-1 / WP-2	PT-1 / WP-2	PT-1 / WP-2	-	-	-	ACT-1	
02-1A046	CLEAN ROOM	PTM	PTM	PTM	PTM	PTM	PTM	-	-	-	PT-5A	
02-1A047B	CONSULTATION ROOM	LVT-1	RB-1	PT-1	PT-8	PT-1	PT-1	-	-	-	ACT-1	FURNITURE EQUIPMENT BY J.A. MARSHALL
02-1A056	PATHOLOGY	RSF-1	IB-1	PT-1A / WP-2	PT-1A / WP-2	PT-1A	PT-1A / WP-2	-	MC-1	SST	SST	ETR
02-1A056	S.V. OFFICE	LVT-1	RB-2	PT-1	PT-1	PT-8	PT-1	-	-	-	ACT-1	FURNITURE EQUIPMENT BY J.A. MARSHALL
02-1A082	CONTROL ROOM	LVT-2	RB-2	PT-1	PT-1	PT-1	PT-1	-	-	SSF-1	ACT-1	
02-1A082B	EQUIP	LVT-2	RB-2	PT-1 / WP-2	PT-1 / WP-2	PT-1 / WP-2	PT-1 / WP-2	-	-	-	PT-5A	
02-1A083	HYBRID OR #1	RES-1	IB-3	WS-1	WS-1	WS-1	WS-1	-	-	SSF-1	-	
02-1A084	EXISTING SUB-STERILE ROOM	ETR	PTM	PTM	ETR	ETR	ETR	-	-	-	ETR	
02-1A094	STORAGE	LVT-2	RB-2	PT-1 / WP-2	PT-1 / WP-2	PT-1 / WP-2	PT-1 / WP-2	-	-	-	ACT-1	

GENERAL ROOM FINISH SCHEDULE NOTES

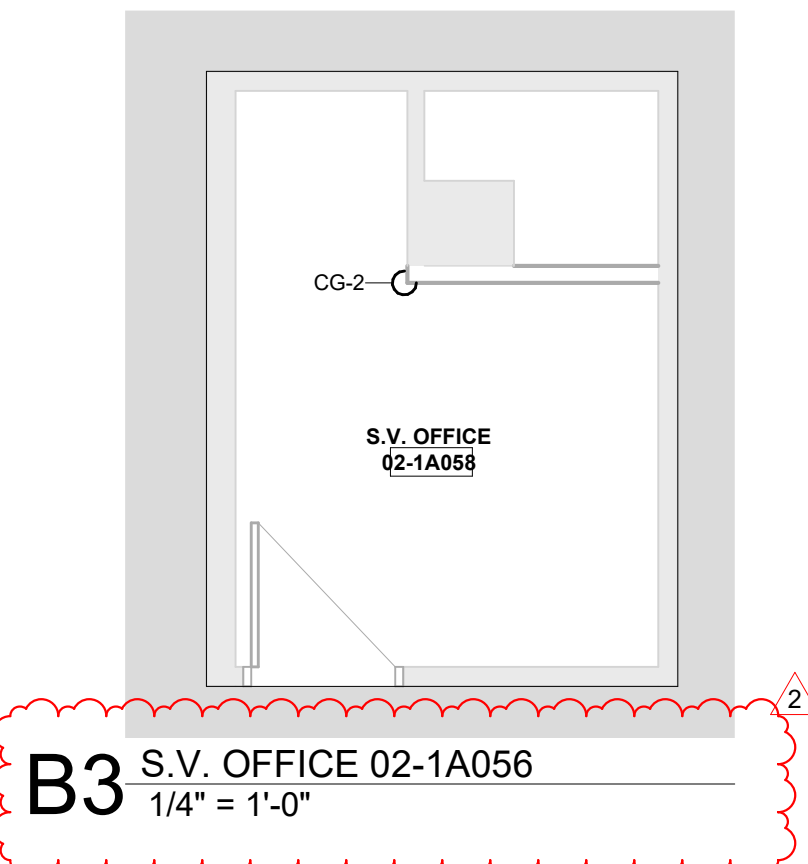
- A. REFER TO FINISH PLAN AND INTERIOR ELEVATIONS FOR WALL FINISHES, WALL PROTECTION, CORNER GUARDS, WINDOW TREATMENTS, FLOOR FINISH APPLICATION AND LOCATIONS
- B. ALL SOLID WOOD, WOOD VENEER, AND PLASTIC LAMINATE GRAIN SHALL BE VERTICALLY ORIENTED UNLESS OTHERWISE NOTED
- C. DOOR FRAMES, HOLLOW METAL WINDOW FRAMES TO BE PT-4 UNLESS OTHERWISE NOTED
- D. ALL FACES AND UNDERSIDES OF SOFFITS AND HEADERS TO BE PT-5 UNLESS OTHERWISE NOTED
- E. WALL EXPANSION JOINTS TO BE PT-1 UNLESS OTHERWISE NOTED
- F. ALL ELECTRICAL PANELS AND METAL GRILLES SHALL BE PTD TO MATCH ADJACENT WALL SURFACE UNLESS OTHERWISE NOTED
- G. ALL COLUMN SURROUND FINISHES TO MATCH ADJACENT WALL SURFACE UNLESS OTHERWISE NOTED
- H. WHERE A WALL IS INDICATED TO HAVE PARTIAL OR FULL HT WALL PROTECTION, THE ENTIRE WALL IS TO BE PTD PRIOR TO WALL PROTECTION INSTALLATION
- I. EXTEND ALL FINISHES BENEATH, BEHIND, AROUND ALL CASEWORK, EQUIPMENT, SIGNAGE, ETC
- J. ALL SST SINKS, RE, MEP
- K. SUBMIT SAMPLES OF ALL FINISHES TO ARCHITECT FOR REVIEW PRIOR TO THE ORDERING OF MATERIAL.
- L. 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
- M. PROVIDE ALL MAINTENANCE MANUALS AND WARRANTY INFORMATION FOR EACH FINISH MATERIAL TO OWNER AT COMPLETION OF THE PROJECT.
- N. FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO COMPLETE WORK OF FINISH APPLICATIONS.
- O. ALL FINISHES SHALL BE INSTALLED AND MAINTAINED PER MANUFACTURER'S RECOMMENDATION AND INDUSTRY STANDARDS.
- P. 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.
- Q. ALL MATERIAL TO COMPLY WITH FLAME SPREAD CLASSIFICATION EITHER CLASS (1) ONE OR CLASS A DEPENDING ON GOVERNING CODE IN EFFECT.
- R. SMOKE DEVELOPMENT RATING < 450 FOR ALL FINISHES.



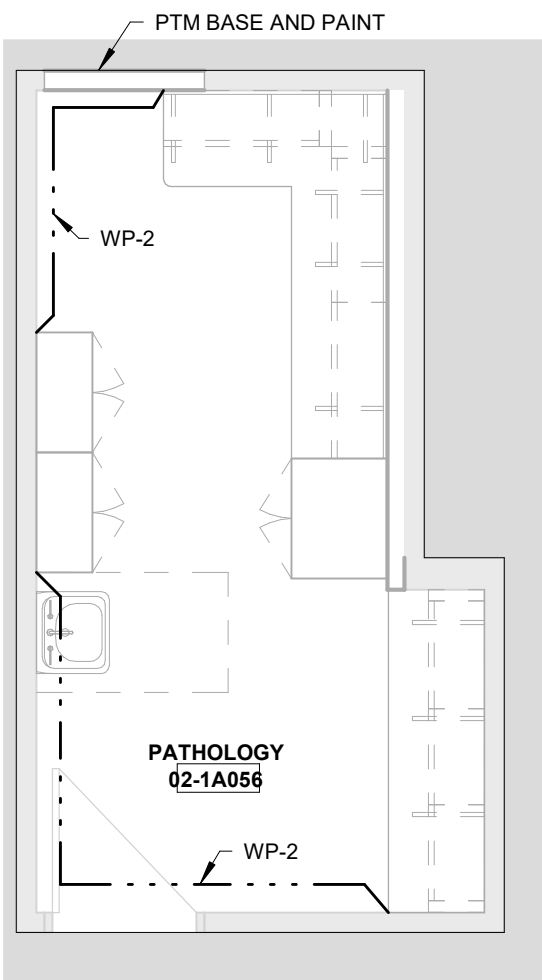
C3 CLEAN ROOM / CONSULT FINISH PLAN
1/4" = 1'-0"



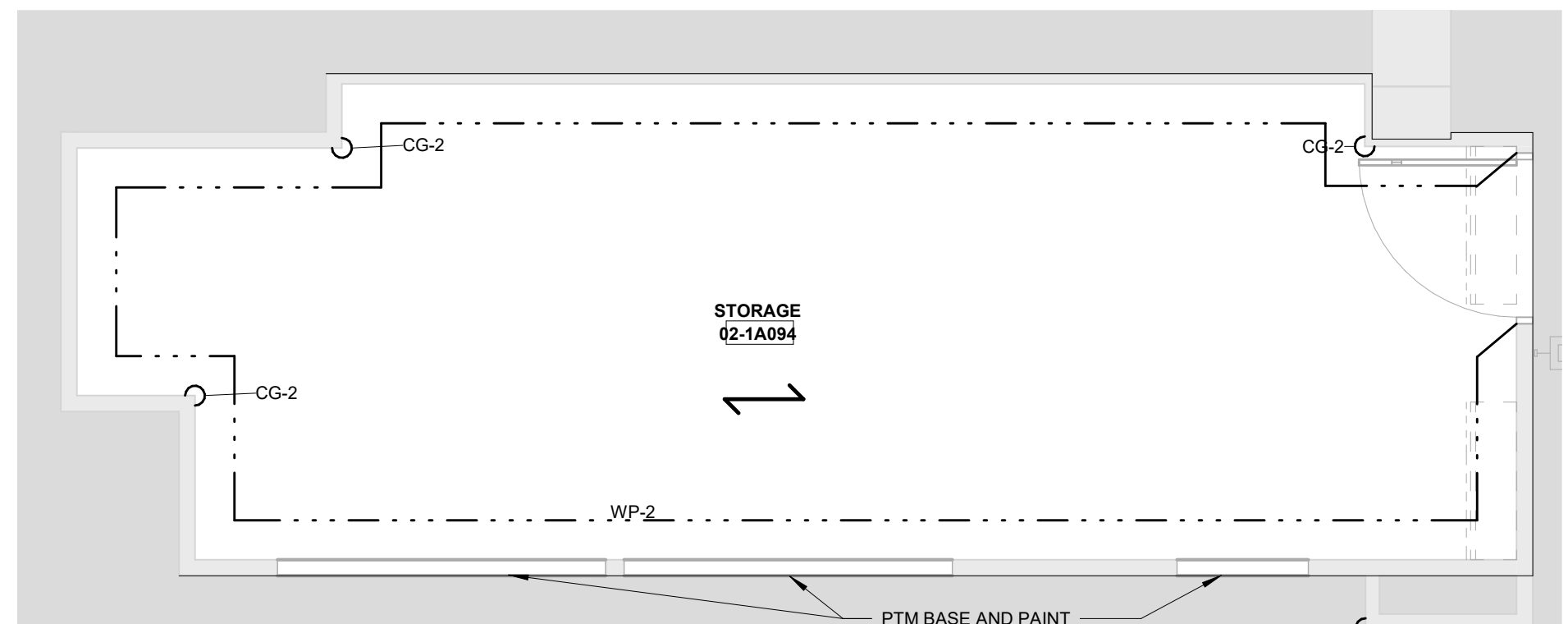
B2 EXISTING STORAGE FINISH PLAN
1/4" = 1'-0"



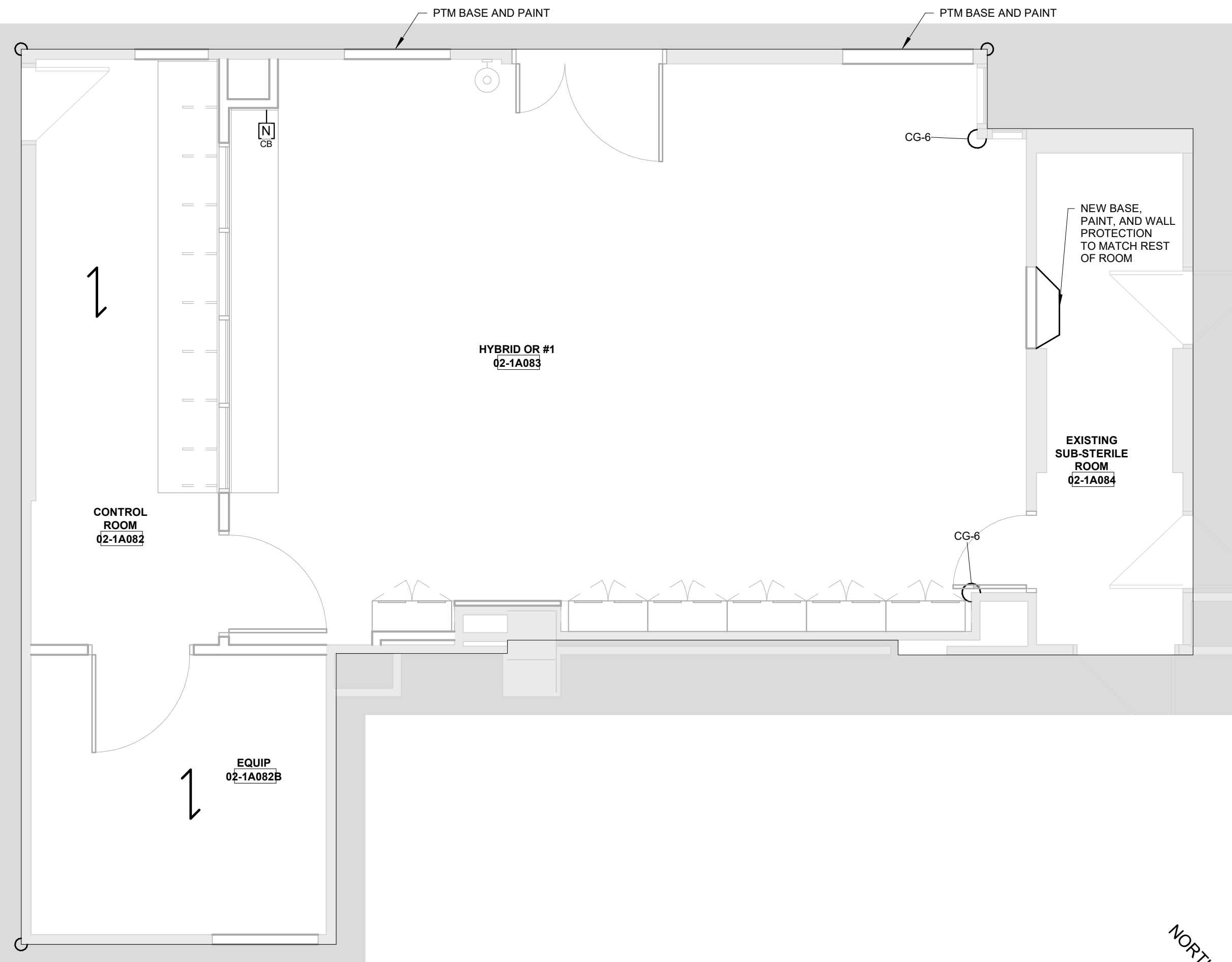
B3 S.V. OFFICE 02-1A056
1/4" = 1'-0"



A3 PATHOLOGY FINISH PLAN
1/4" = 1'-0"



A2 STORAGE FINISH PLAN
1/4" = 1'-0"



A4 HYBRID OR FINISH PLAN
1/4" = 1'-0"

STATE OF MISSOURI

SAMUEL BECKWITH ARCHITECT

7/13/2022 11:15:59 AM

JOHN R. DEANBUSH - ARCHITECT

License - Missouri WA-2011012130

ACI

BOLAND

ARCHITECTS

1710 Wyandotte

Kansas City, MO 64108

T: 816.763.9600

ACI/Boland, Inc.

Kansas City | St. Louis

Licensee's Certificate of Authority Number:

Missouri: #000958

MEP CONSULTANT

IMEG Corp.

1600 Baltimore, Suite 300

Kansas City, Missouri 64108

T: 816.842.8437

Licensee's Certificate of Authority Number:

Missouri: #F001325536

SLE HYBRID OR

100 NE Saint Luke's Blvd

Lee's Summit, MO 64086

Date5/31/2022

Job Number3-20034

Drawn ByAF

Checked ByChecker

Revision

NumberDateDescription

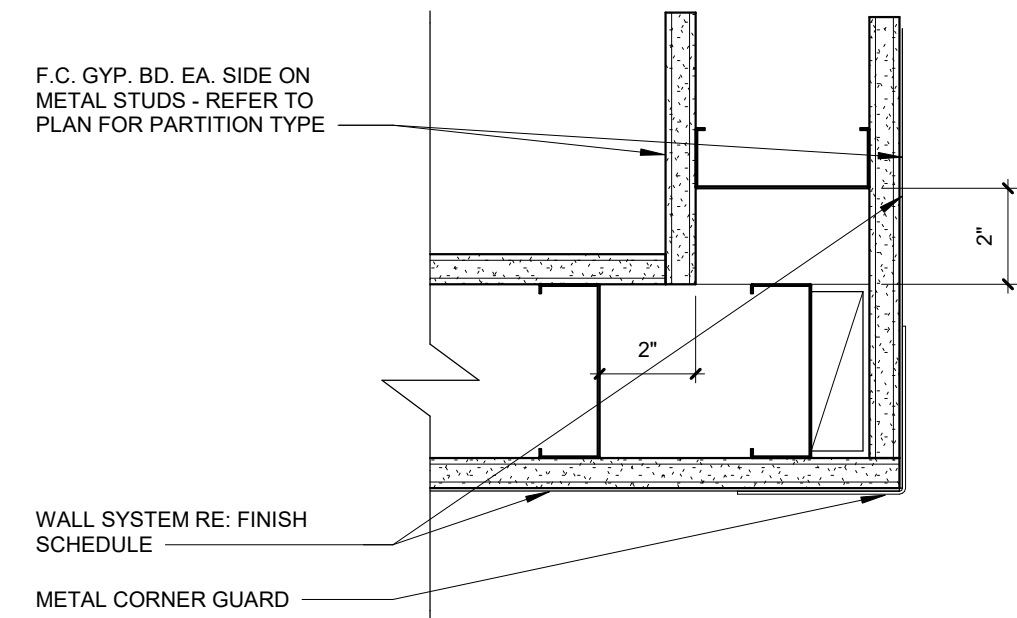
207.13.22ADD #2 - CITY

A4.2

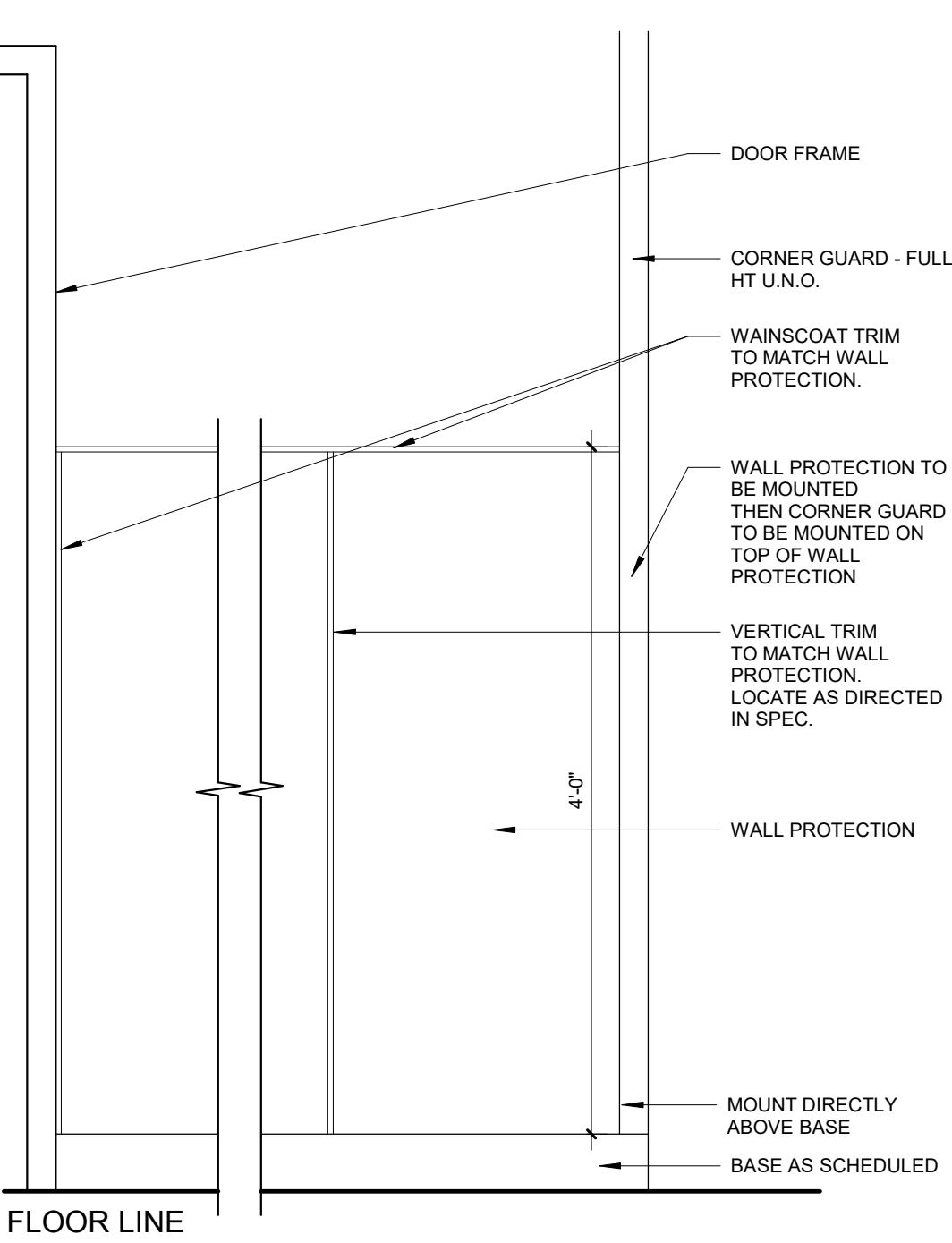
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ROOM FINISH SCHEDULE & FINISH LEGEND

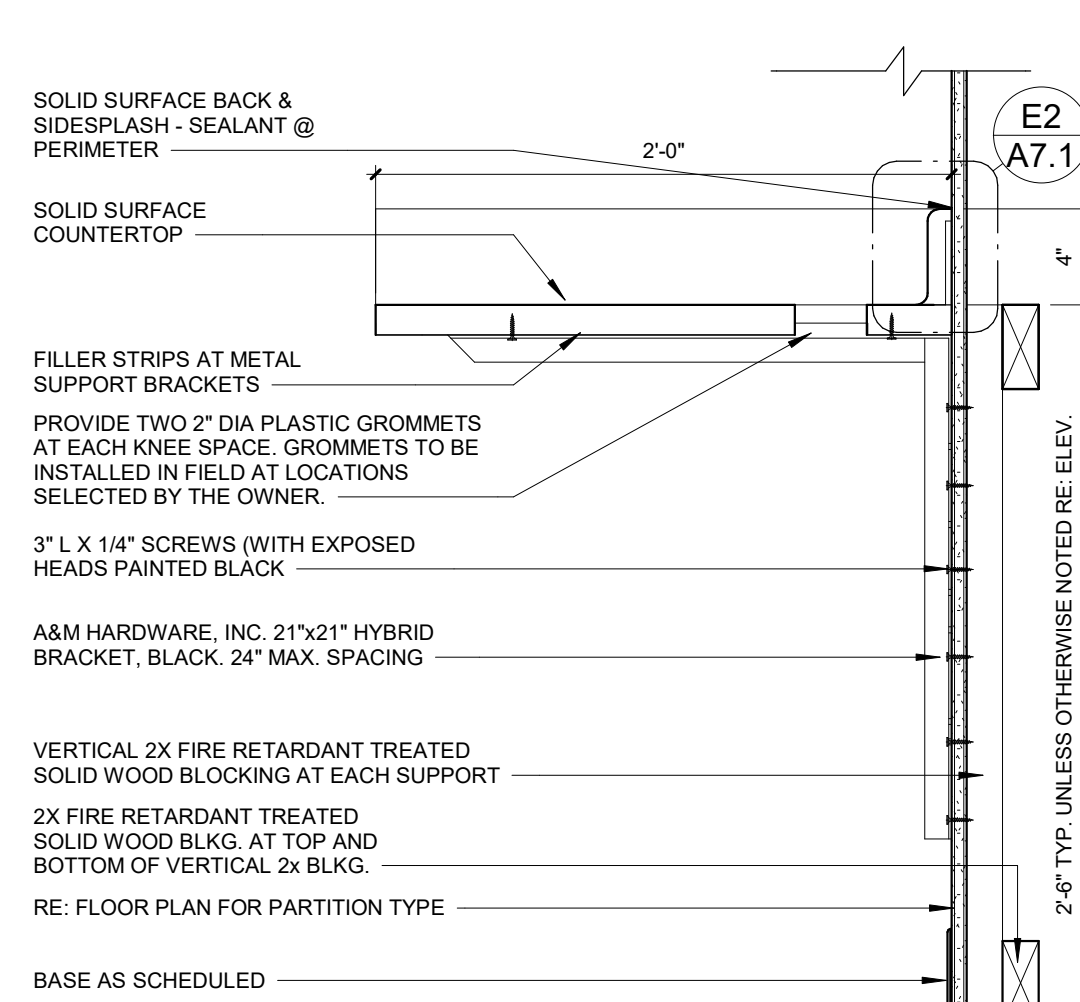
E6 TYPICAL SINGLE VINYL CORNER GUARD
3" = 1'-0"



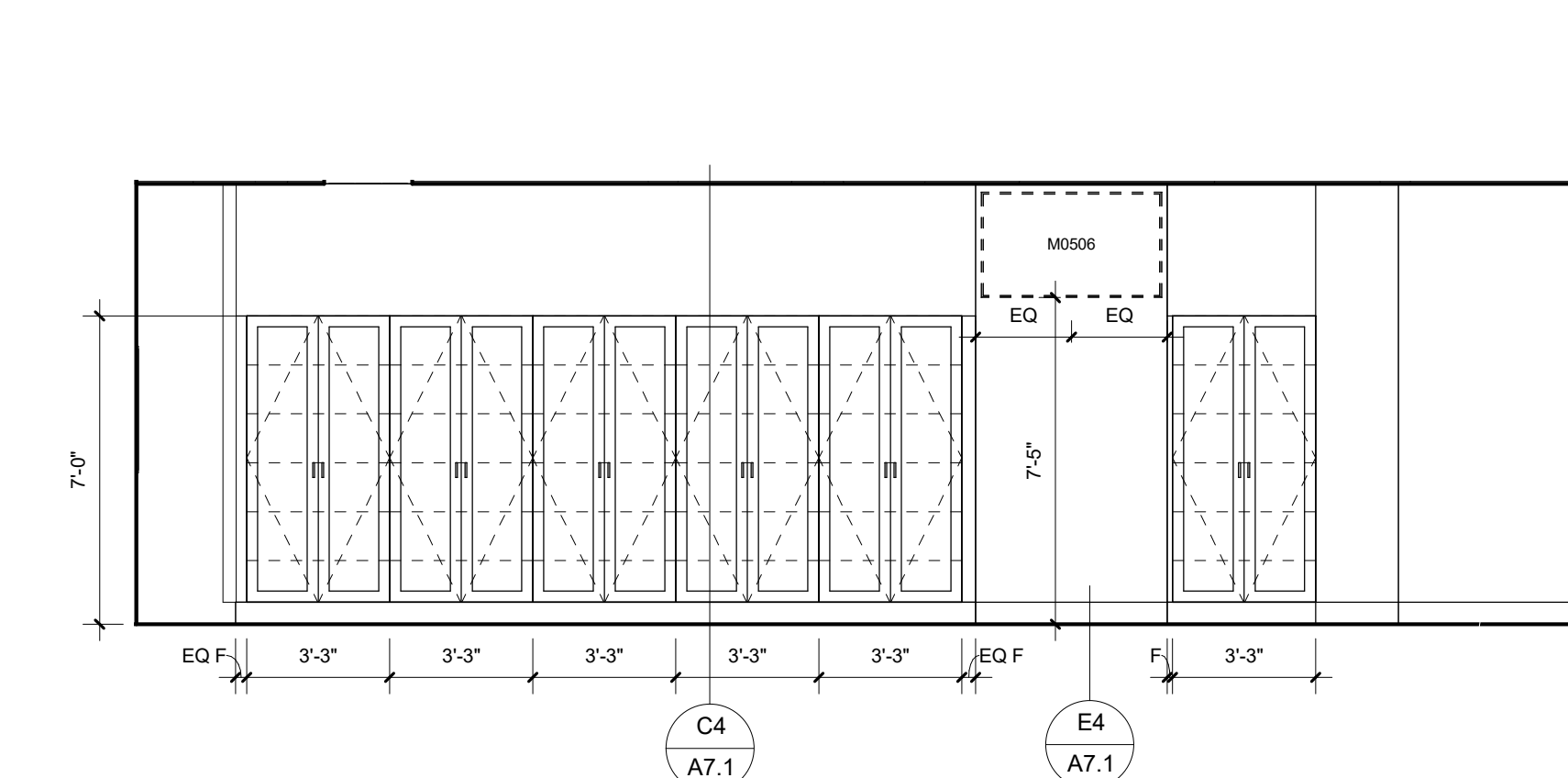
D6 DETAIL AT METAL CORNER GUARD
3" = 1'-0"



C6 TYP. ELEV. OF WALL PROTECTION/CORNER GUARD
1" = 1'-0"



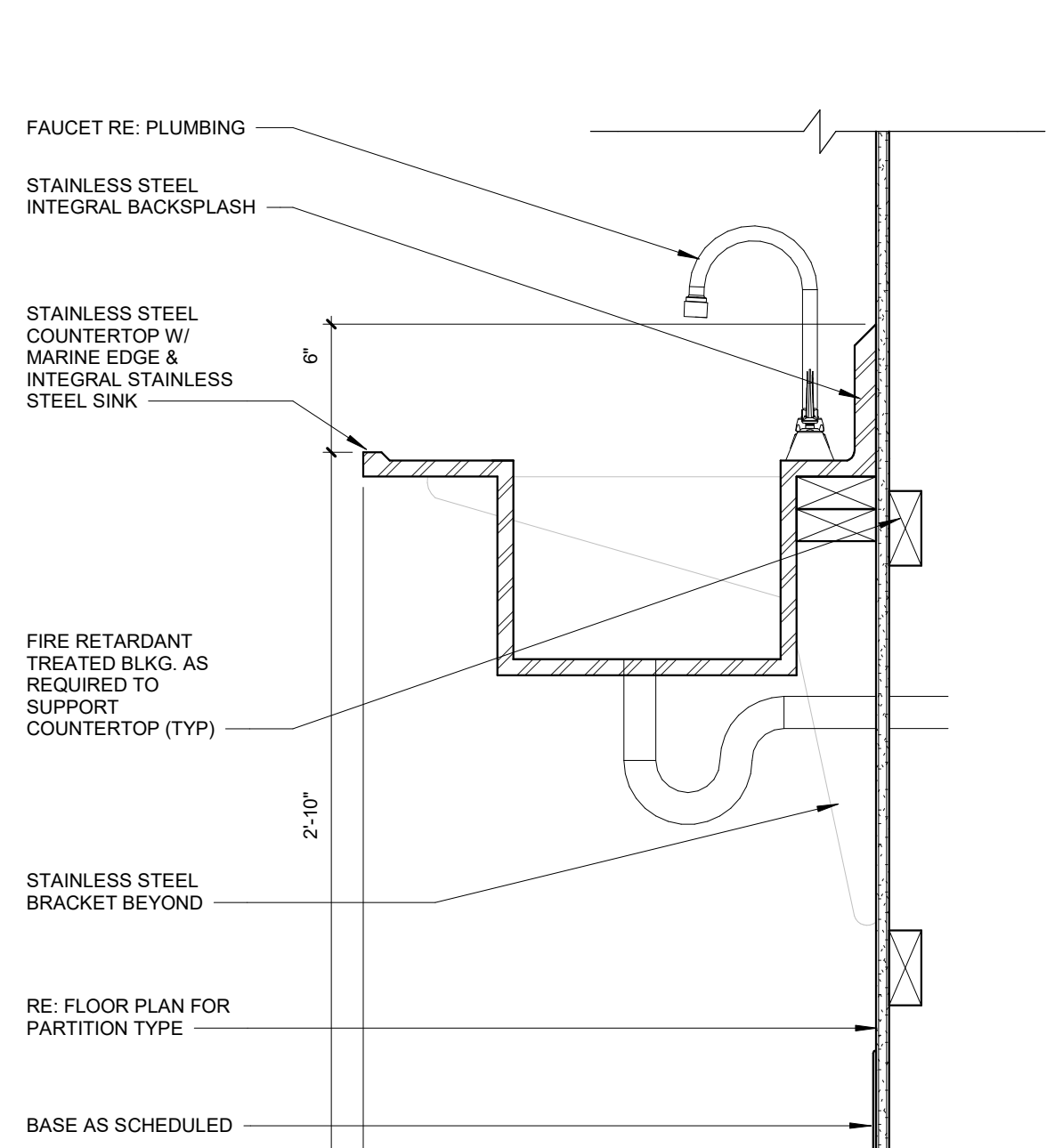
B6 DETAIL AT SUPPORT BRACKET / KNEE SPACE - HYBRID BRACKET
1 1/2" = 1'-0"



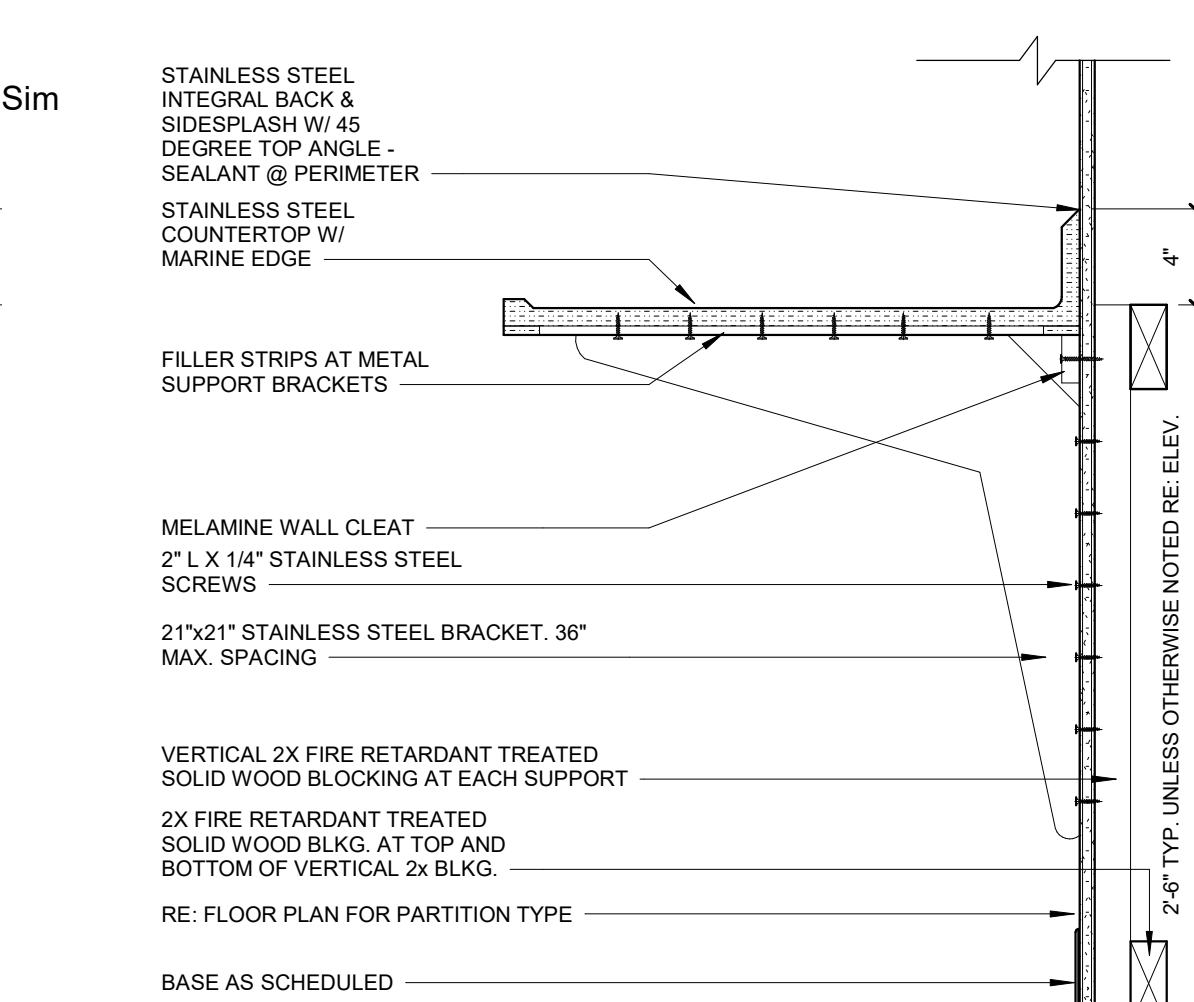
A6 HYBRID OR - WEST
1/4" = 1'-0"



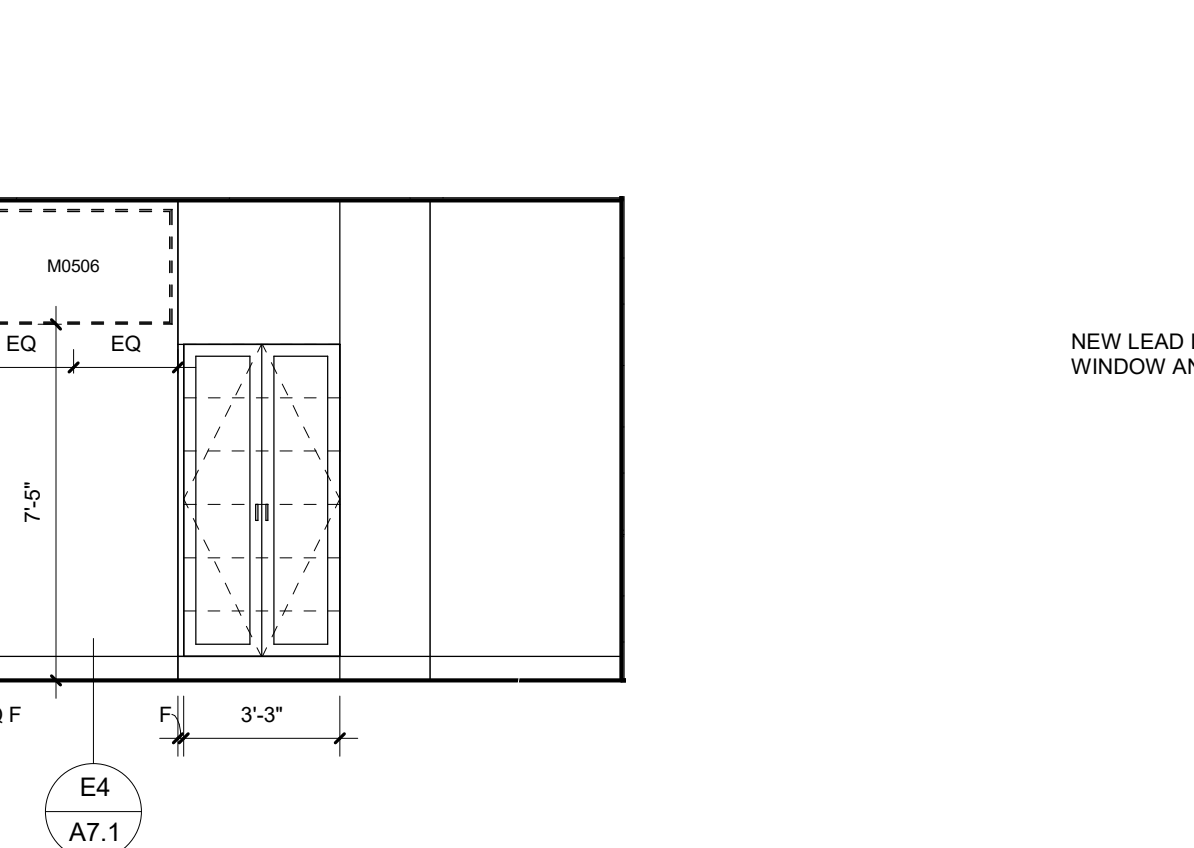
D5 DETAIL AT METAL UPPER CABINET
1 1/2" = 1'-0"



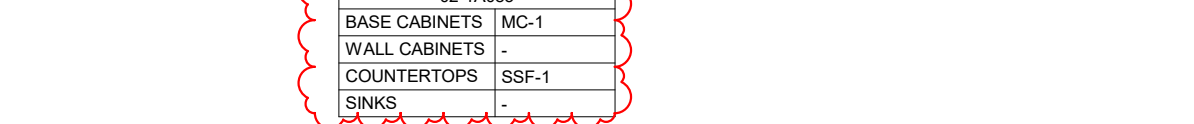
C5 DETAIL AT SINK BASE CABINET - SST
1 1/2" = 1'-0"



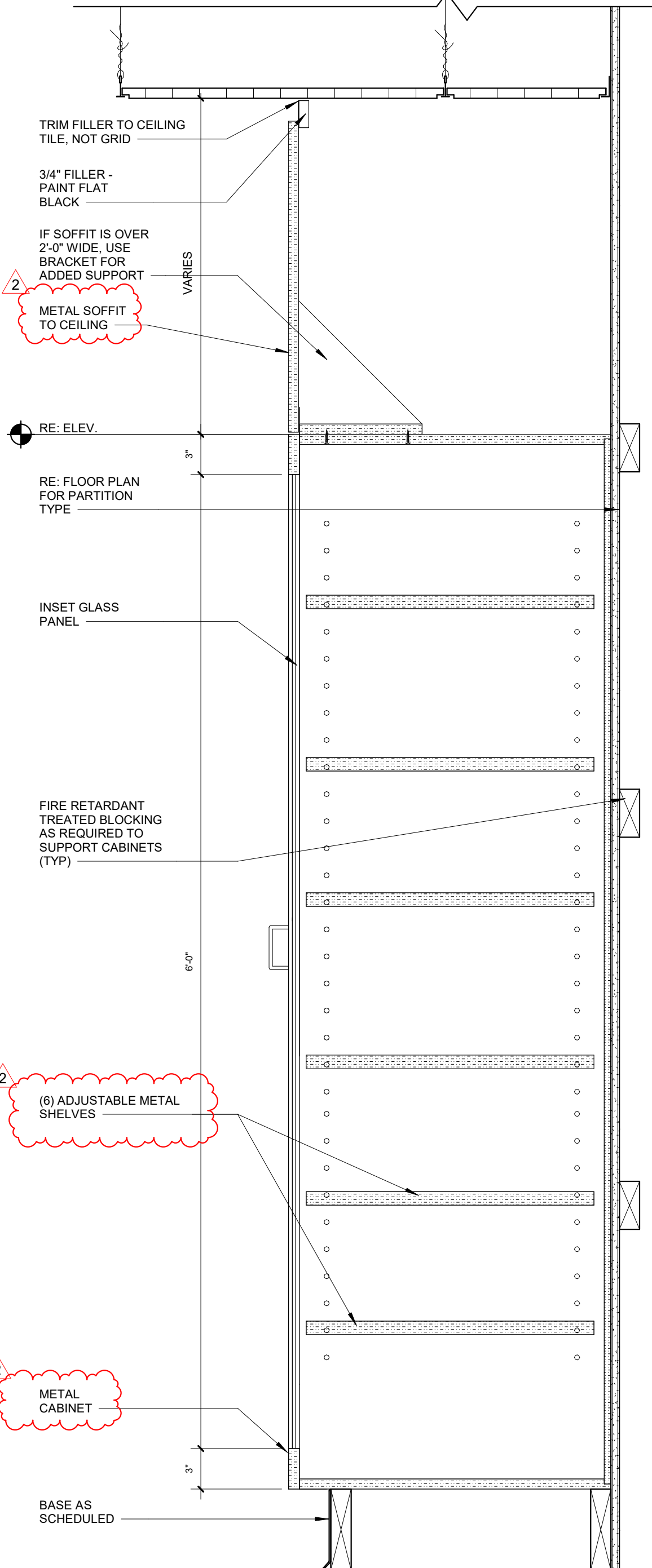
B5 DETAIL AT SUPPORT BRACKET / KNEE SPACE - SST
1 1/2" = 1'-0"



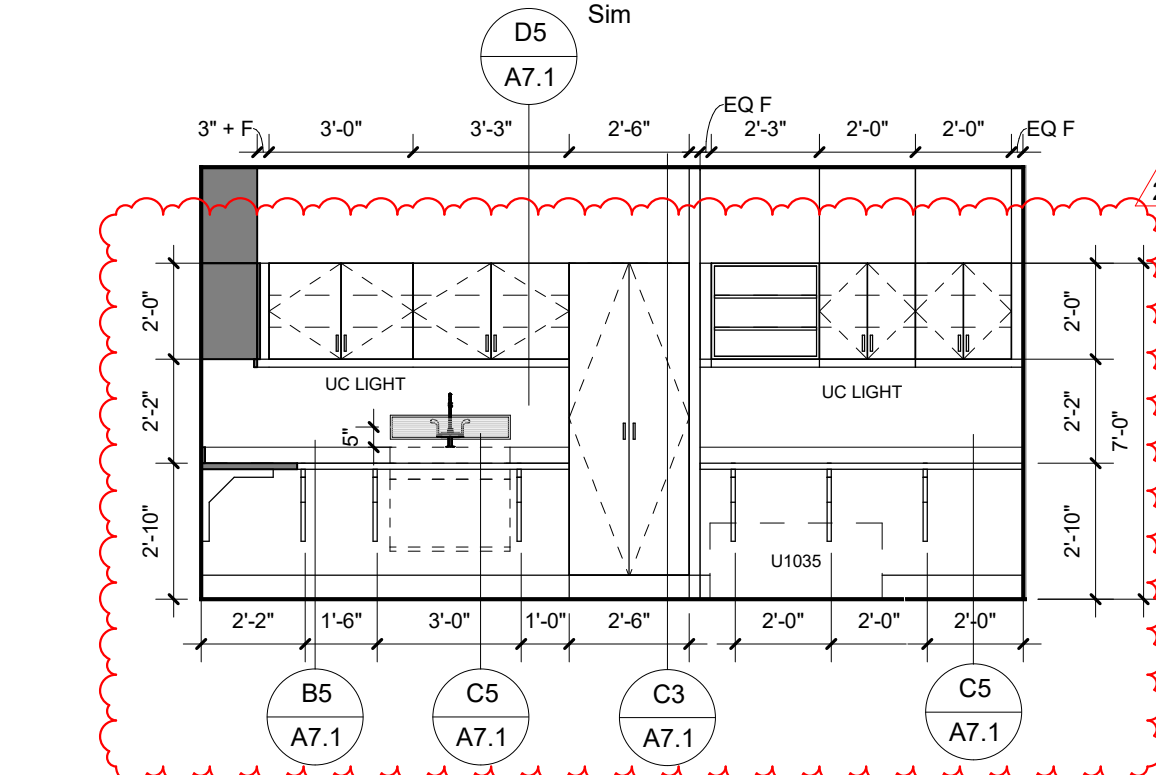
A4 HYBRID OR - SOUTH
1/4" = 1'-0"



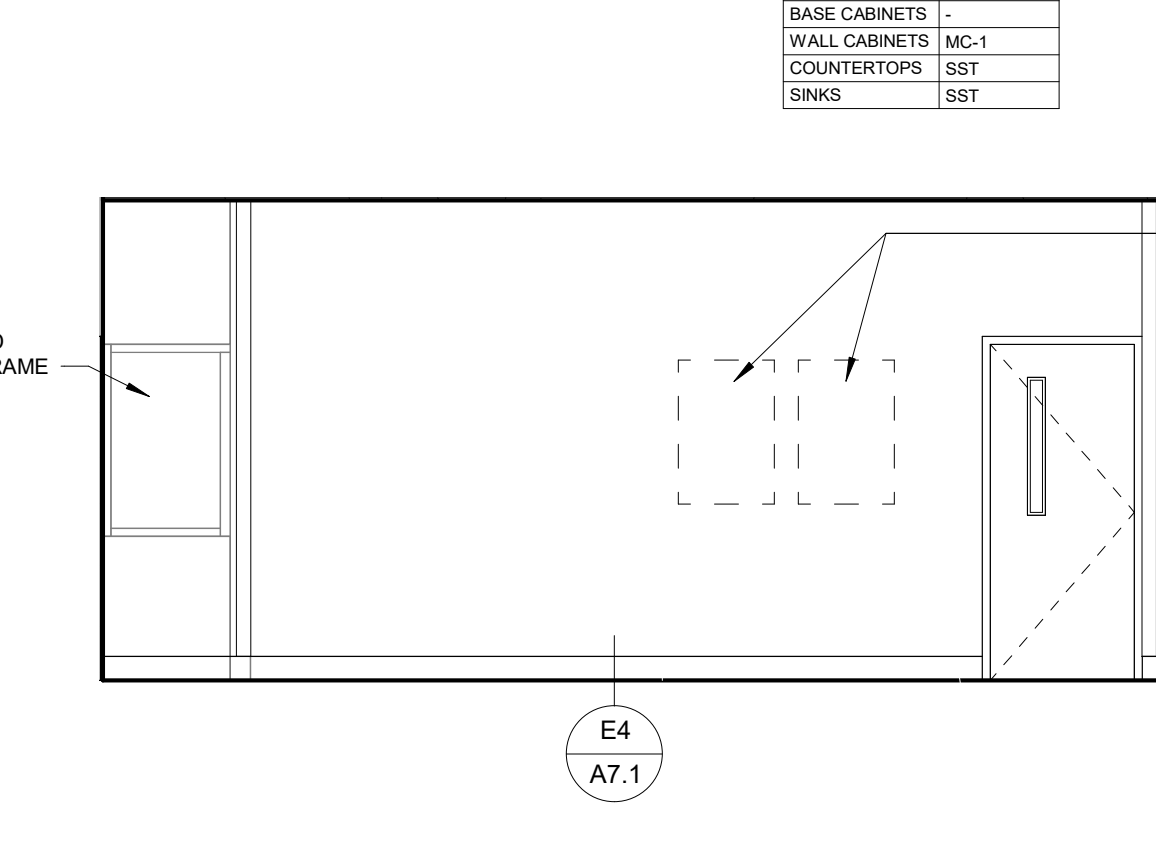
E4 DETAIL AT RESINOUS COVE BASE
3" = 1'-0"



C4 DETAIL AT FULL HEIGHT CABINET WITH GLASS
1 1/2" = 1'-0"



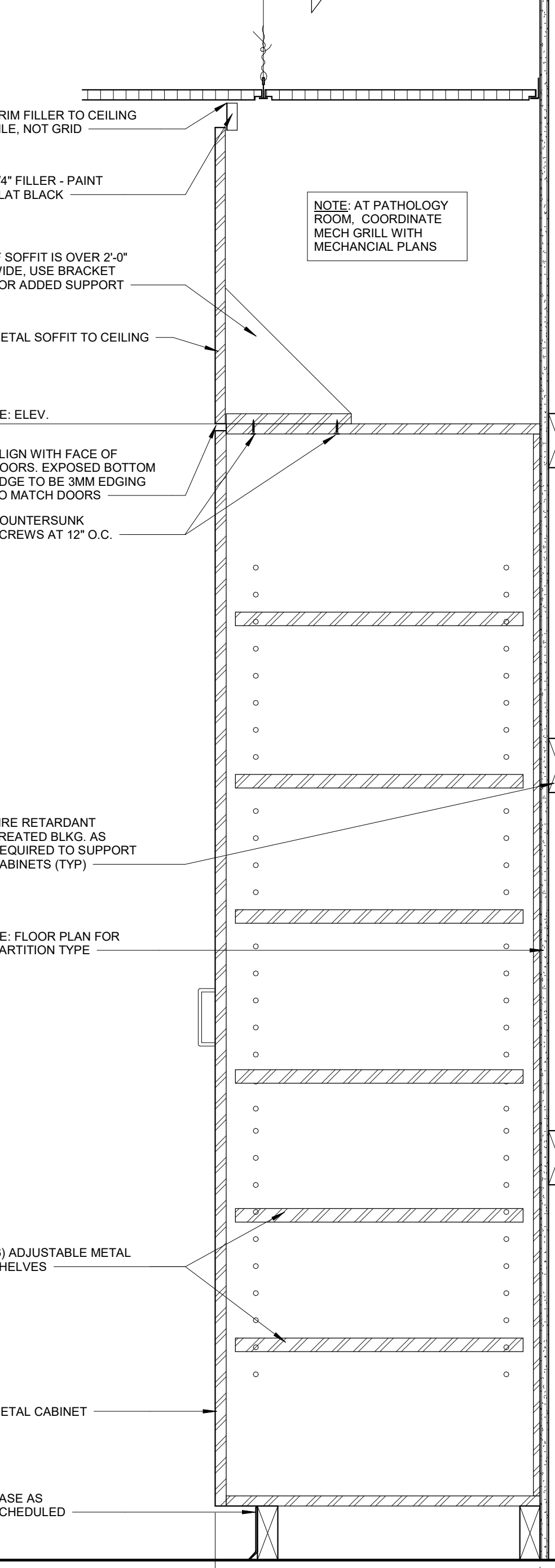
B4 PATHOLOGY ELEVATION - SOUTH
1/4" = 1'-0"



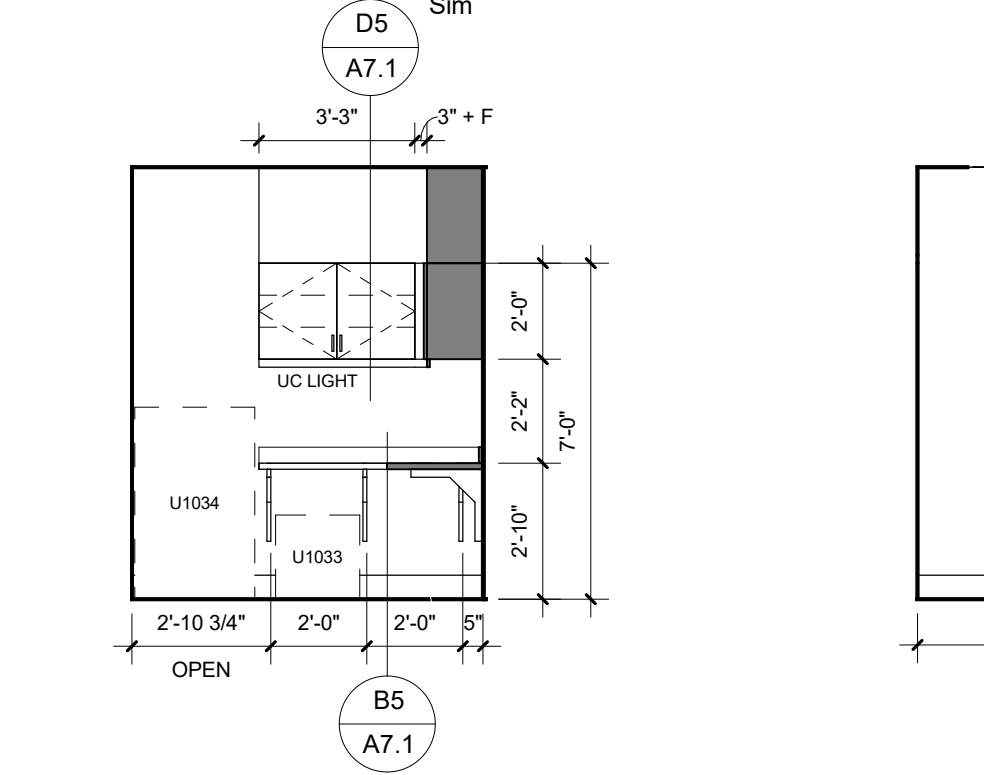
A4 HYBRID OR - SOUTH
1/4" = 1'-0"



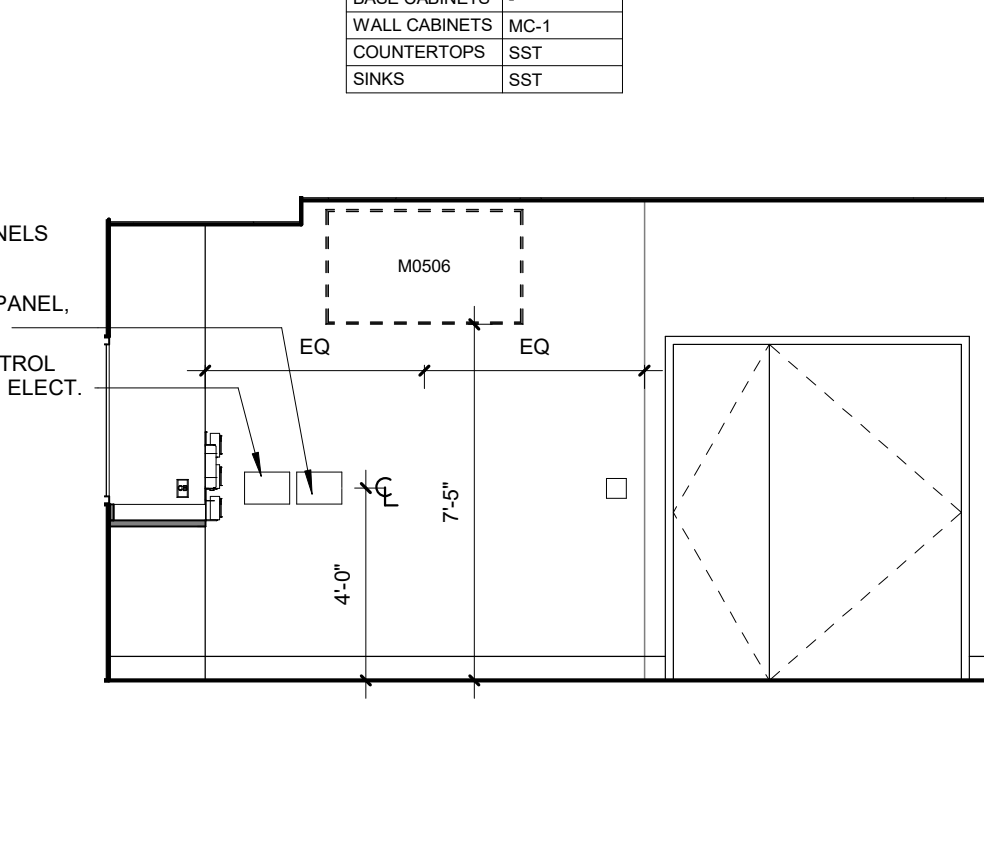
E3 DETAIL AT RESILIENT SHEET COVE BASE TERMINATION
3" = 1'-0"



C3 DETAIL AT FULL HT. CABINET
1 1/2" = 1'-0"



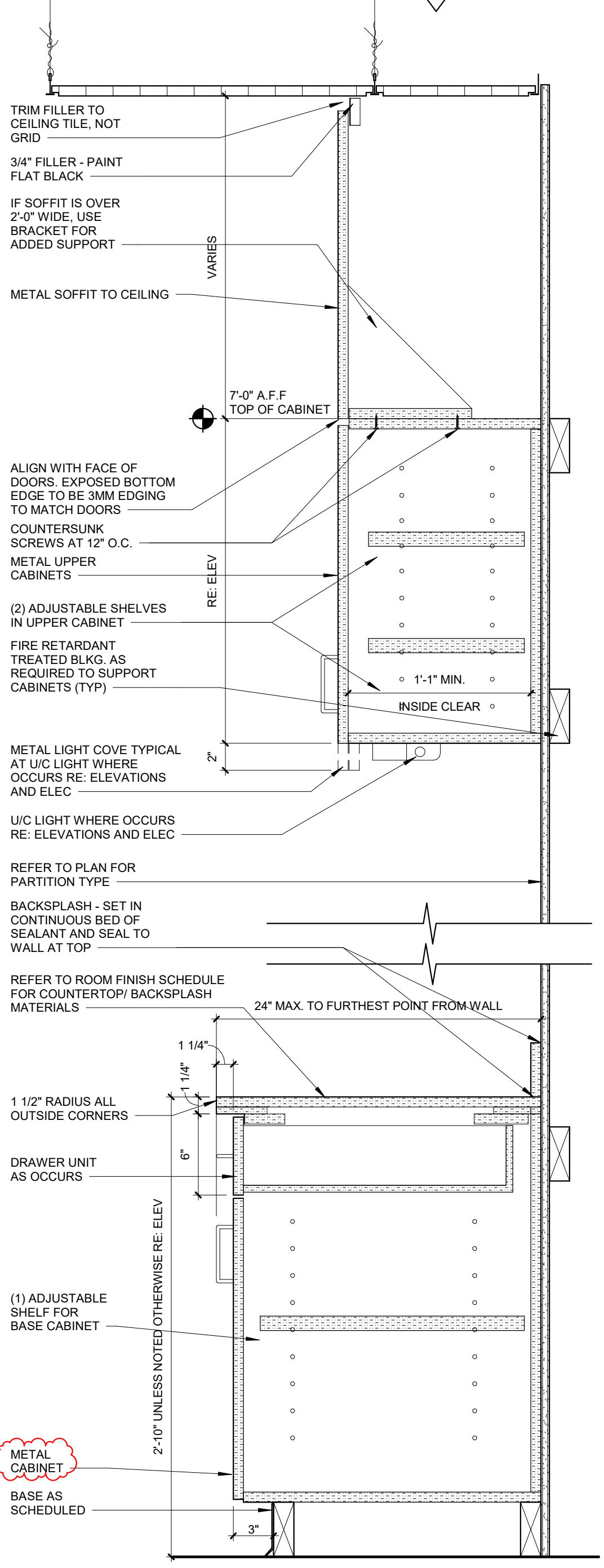
B3 PATHOLOGY - EAST
1/4" = 1'-0"



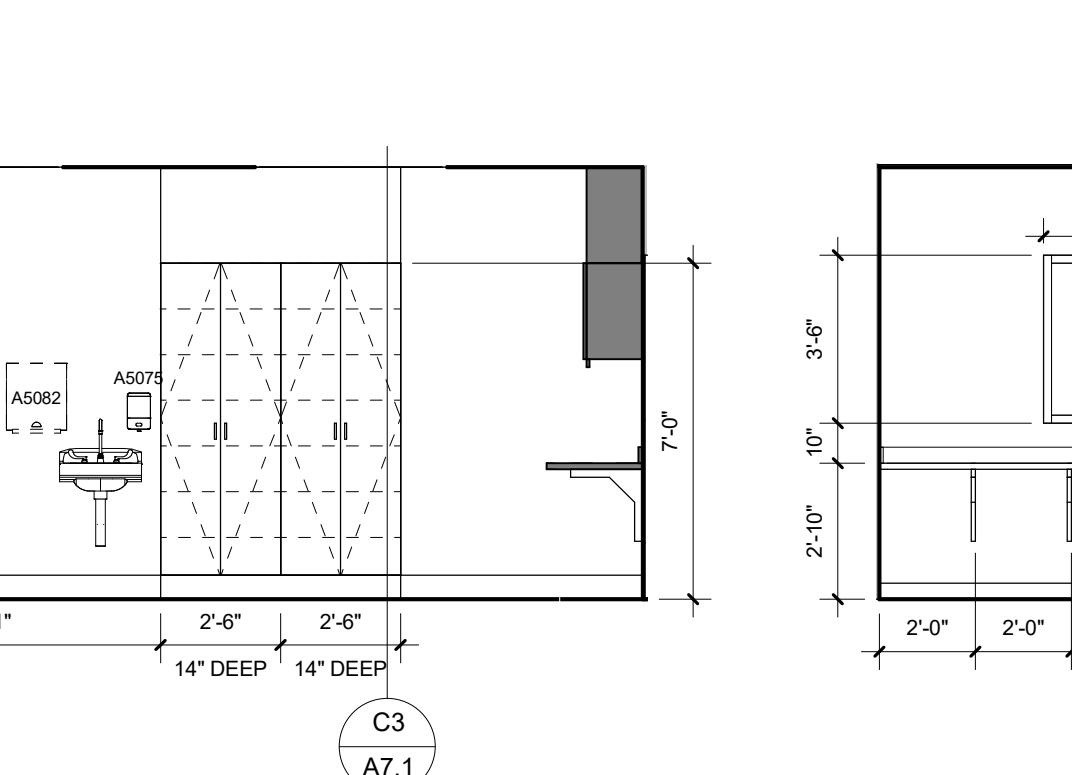
A3 HYBRID OR - EAST
1/4" = 1'-0"



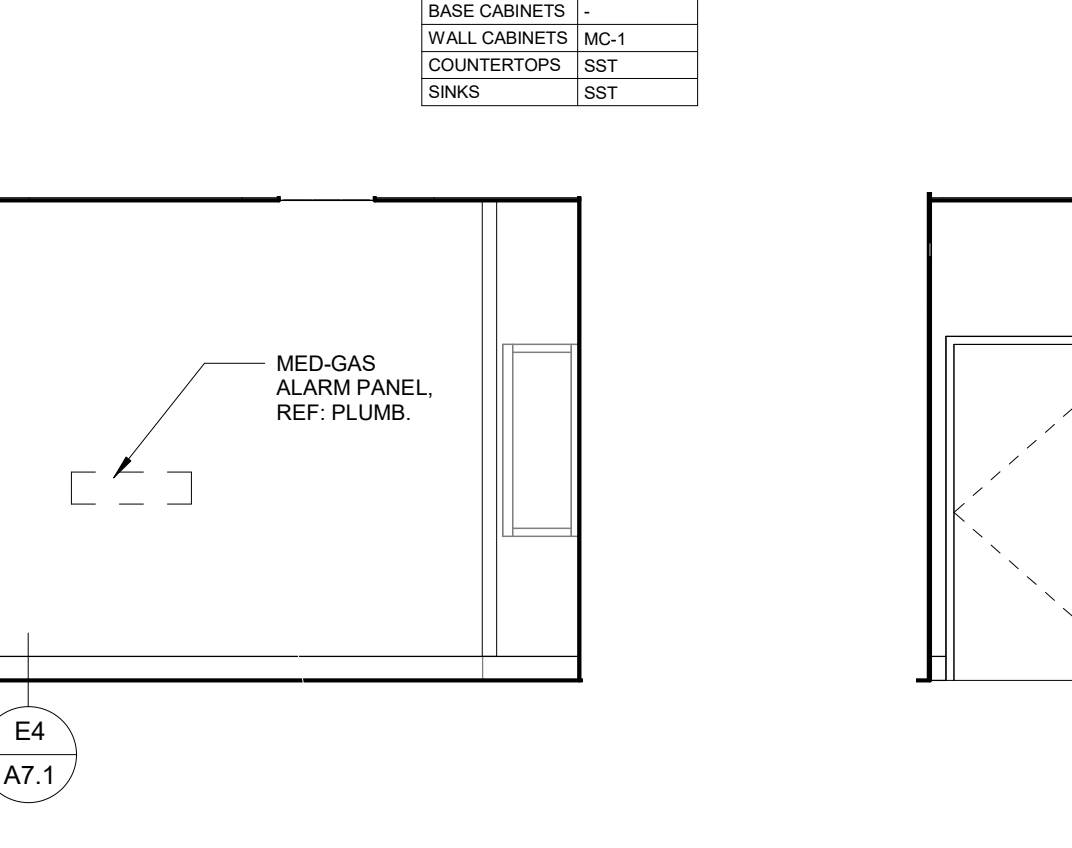
E2 SECTION DETAIL AT SOLID SURFACE BACKSPLASH
3" = 1'-0"



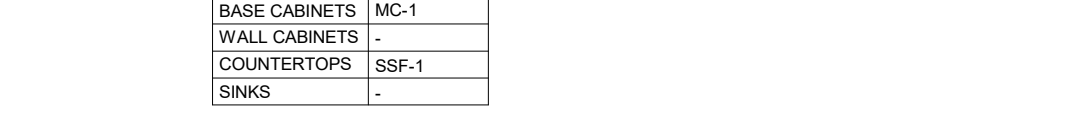
C2 CASEWORK SECTION
1 1/2" = 1'-0"



B2 PATHOLOGY - NORTH
1/4" = 1'-0"

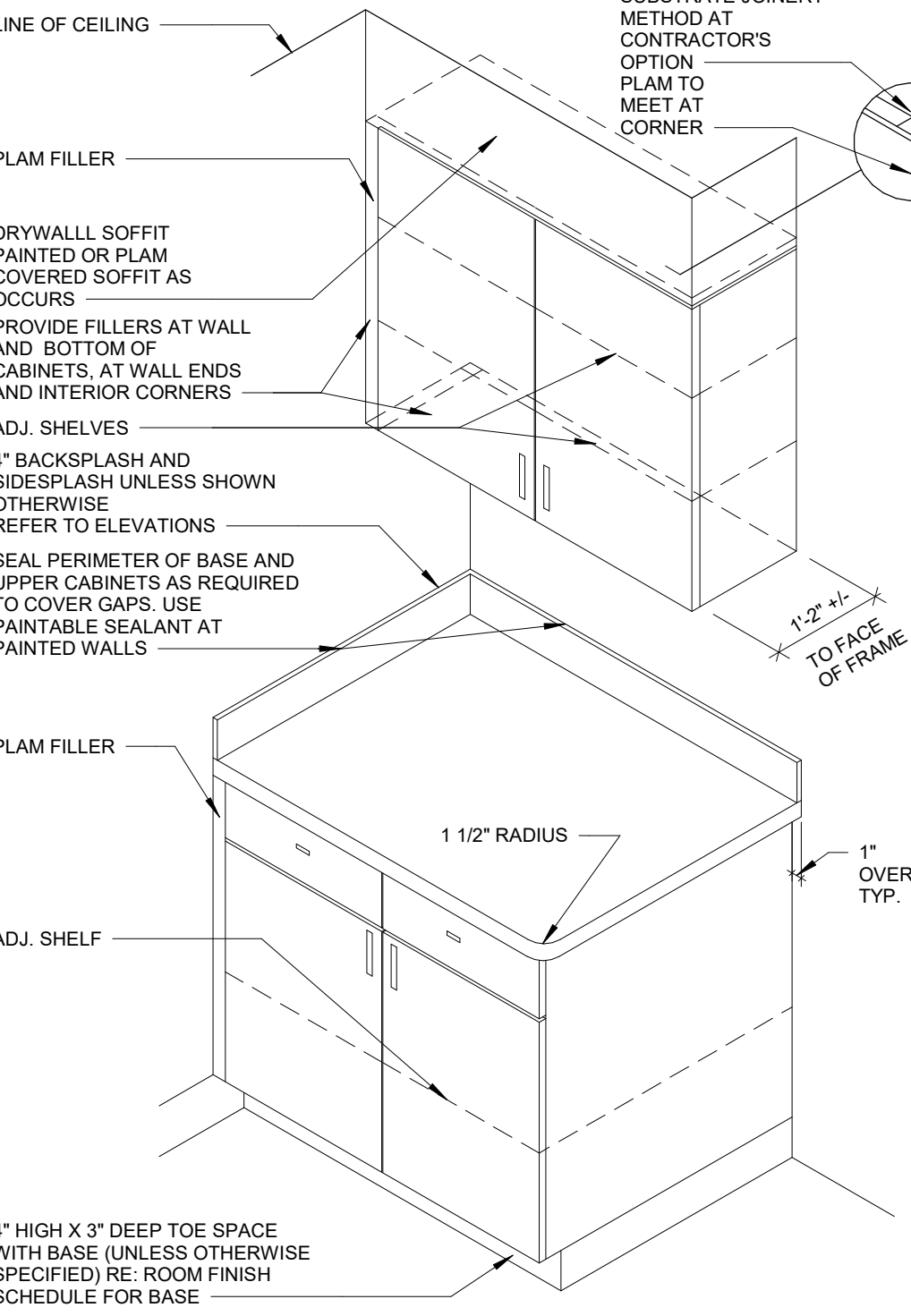


A3 HYBRID OR - EAST
1/4" = 1'-0"



GENERAL CASEWORK NOTES

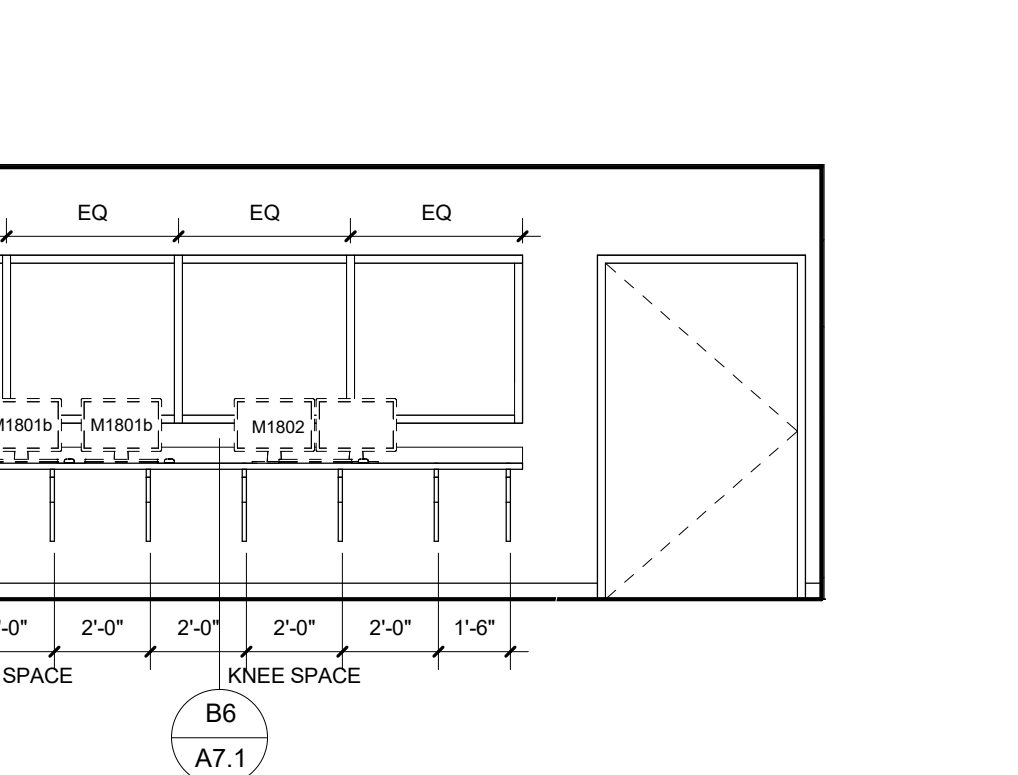
- GENERAL CASEWORK NOTES APPLY TO ALL INTERIOR ELEVATIONS.
- PROVIDE 3 MM PVC EDGE BANDING ON COUNTERTOP EDGE AND (018 MIN.) VINYL EDGING ON DRAWER AND DOOR EDGES UNLESS NOTED OTHERWISE. EDGE BANDING TO MATCH ADJACENT P. LAM. SURFACE.
- ALL EXPOSED FACES AND SHELVES TO BE WRAPPED WITH P. LAM. UNLESS NOTED OTHERWISE.
- ALL INTERIOR SURFACES TO BE WHITE MELAMINE U.N.O.
- PROVIDE WOOD BLOCKING OR 12" HIGH X 16 GA. CONTINUOUS SHEET METAL BRIDGING IN WALL AS REQUIRED FOR ADEQUATE SUPPORT OF ALL CASEWORK.
- WALL BASE TO BE INSTALLED ON ALL CASEWORK UNLESS NOTED OTHERWISE. REFER TO FINISH SCHEDULE FOR TYPE.
- "F" INDICATES FILLER PANEL, 1-1/2" MIN.
- PROVIDE FINISHED ENDS AT ALL EXPOSED ENDS OF CASEWORK.
- ALL ELECTRICAL, MECHANICAL, AND PLUMBING ITEMS SHOWN IN ELEVATION ARE FOR REFERENCE AND LOCATION ONLY. REFER TO MEP DRAWINGS FOR SIZES, TYPES AND QUANTITIES.
- ALL SOFFITS ABOVE CASEWORK TO BE P. LAM. UNLESS NOTES OTHERWISE.



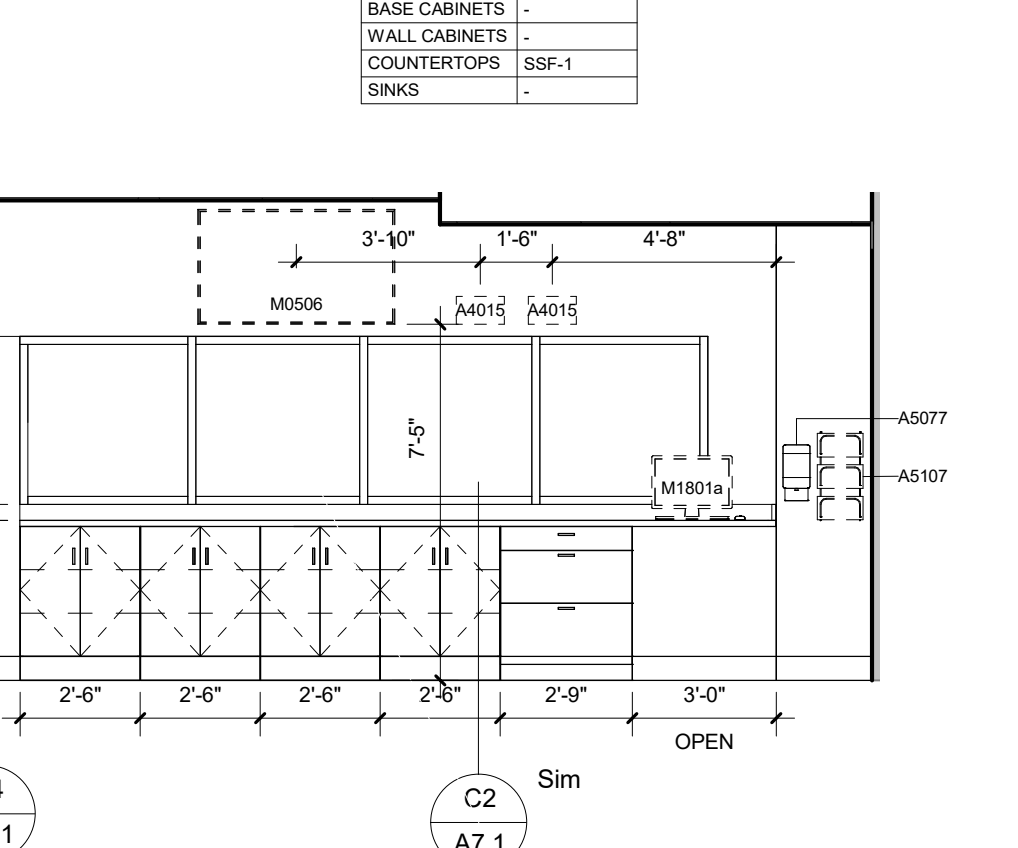
TYP. CABINET NOTES:

- PROVIDE PLAM FILLER WHERE CABINETS BUTT UP TO WALLS.
- ALL COUNTERTOPS HAVE A 4" BACKSPLASH (MATERIAL TO MATCH COUNTERTOP) AND OUTSIDE CORNERS HAVE 1 1/2" RADIUS EXCEPT WHERE NOTED OTHERWISE.
- 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.
- PLASTIC LAMINATE COUNTERTOP EDGES SHALL BE 3 MM PLASTIC. COLOR AS SELECTED BY ARCHITECT.

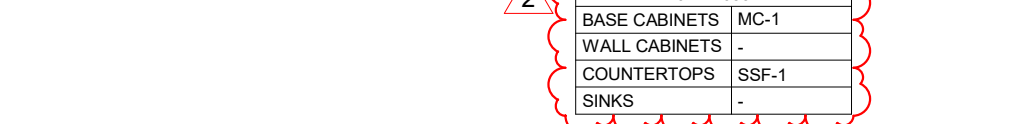
C1 CASEWORK ISOMETRIC
1 1/2" = 1'-0"



B1 CONTROL ROOM - SOUTH
1/4" = 1'-0"



A1 HYBRID OR - NORTH
1/4" = 1'-0"



7/13/2022 11:16:12 AM

License - Missouri WA-2011012130

ACI
BOLAND
ARCHITECTS

1710 Wyandotte
Kansas City, MO 64108
T: 816.763.9600

ACI/Boland, Inc.
Kansas City | St. Louis
Licensee's Certificate of Authority Number:
Missouri: #000958

MEP CONSULTANT

IMEG Corp.
1600 Baltimore, Suite 300
Kansas City, Missouri 64108
T: 816.842.8437
Licensee's Certificate of Authority Number:
Missouri: #F001325536

SLE HYBRID OR
100 NE Saint Luke's Blvd
Lee's Summit, MO 64086

Date 5/31/2022
Job Number 3-20034
Drawn By AF
Checked By Checker

Revision
Number Date Description
2 07.13.22 ADD #2 - CITY

A7.1
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INTERIOR ELEVATIONS & DETAILS

BIN 360/22000825.00 - STLH-Lee's Summit- MO-Hybrid ORWMEP21_22000825.00_STLH-Lee's Summit- MO-Hybrid
 CR_Crvt

7/13/2022 1:09:53 PM

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

VIEW KEY	
<div> <div>NAME</div> <div>LEVEL NAME</div> <div>HEIGHT ABOVE PROJECT 0'-0"</div> </div> <div> <div>INDICATES DIRECTION OF TRUE NORTH</div> <div>PLAN OR DETAIL NUMBER</div> <div>PLAN OR DETAIL NAME</div> <div>PLAN OR DETAIL SCALE</div> </div>	<div> <div>INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL</div> </div>
<div> <div>VIEW NAME</div> <div>1/8" = 1'-0"</div> </div> <div> <div>INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS</div> <div>DETAIL REFERRED TO BY SECTION CUT</div> <div>SHEET DETAIL IS LOCATED ON</div> </div>	
LINE TYPE AND TAG KEY: NEW WORK BY THIS CONTRACTOR (WIDE LINE) ----- EXISTING TO BE REMOVED (SHORT DASHED PATTERN) --- NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN) EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE) ----- EXISTING --- EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN) --- EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN) HALFTONING DOES NOT MODIFY SCOPE. TAG-E TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING TAG-1 UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL	

PLUMBING SYMBOL LIST	
NOT ALL SYMBOLS MAY APPLY.	
SYMBOL:	DESCRIPTION:
—AV—	ACID VENT
—AW—	ACID WASTE
—CA—	COMPRESSED AIR
—CO2—	CARBON DIOXIDE
—CW—	COLD WATER - POTABLE
—D—	DRAIN
—DI—	DEIONIZED WATER
—DMG—	DRAIN - MEDICAL GAS
—DT—	DRAIN TILE
—EA—	MEDICAL EQUIPMENT AIR
—EO—	EMERGENCY OXYGEN
—FOR—	FUEL OIL RETURN
—FOS—	FUEL OIL SUPPLY
—G—	NATURAL GAS
—GRV—	GAS REGULATOR VENT
—GSAN—	SANITARY DRAINAGE (GREASE SANITARY DRAINAGE)
—GV—	GREASE VENT
—HW—	HOT WATER - POTABLE
—HWC—	HOT WATER CIRCULATING - POTABLE
—HW140—	HOT WATER - POTABLE NUMBER INDICATES TEMP
—HWC140—	HOT WATER CIRC. - POTABLE NUMBER INDICATES TEMP
—IA—	INSTRUMENT AIR
—MA—	MEDICAL AIR
—MPG—	MEDIUM PRESSURE GAS
—MV—	MEDICAL VACUUM
—N—	NITROGEN
—NCW—	NON-POTABLE COLD WATER
—NHW—	NON-POTABLE HOT WATER
—NO—	NITROUS OXIDE
—O—	OXYGEN
—P—	PROPANE GAS
—PD—	PUMPED DISCHARGE
—PW—	PURE WATER
—RO—	REVERSE OSMOSIS WATER
—SAN—	SANITARY DRAINAGE
—SCW—	SOFT COLD WATER
—SHW—	SOFT HOT WATER
—ST(1,000)—	STORM DRAINAGE (ROOF SQUARE FOOTAGE)
—STS—	STORM DRAINAGE (SECONDARY)
—STW—	SOFT TEMPERED WATER
—TW—	TEMPERED WATER
—V—	VENT
—VAC—	LAB VACUUM
—W—	SERVICE WATER - POTABLE
—WAGD—	WASTE ANESTHESIA GAS DISPOSAL
—	PIPE CONTINUATION
—	PIPE CAP
—	PIPE DOWN
—	PIPE UP OR UP/DOWN
—	PIPE SERVING FIXTURE ON FLOOR ABOVE (EXAMPLE: FD = FLOOR DRAIN)
—	PITCH PIPE IN DIRECTION
—	DIRECTION OF FLOW IN PIPE
—	ROUTE TO DRAIN
—	ROOF DRAIN PROPERTIES
—	SYMBOL SIZE (ROOF SQ. FT.)
—	DIELECTRIC CONNECTION
—	UNION/FLANGE
—	SHUTOFF VALVE NORMALLY OPEN
—	SHUTOFF VALVE NORMALLY CLOSED
—	BALANCING VALVE (NUMBER INDICATES GPM)
—	CHECK VALVE
—	BACKFLOW PREVENTER
—	SOLENOID VALVE
—	"WYE" - STRAINER
—	"WYE" - STRAINER W/SHUTOFF VALVE AND HOSE CONNECTION WITH CAP
—	FLEXIBLE CONNECTION
—	MANUAL AIR VENT
—	DRAIN VALVE WITH HOSE CONNECTION AND CAP
—	SAFETY/RELIEF VALVE
—	VACUUM BREAKER
—	PRESSURE GAUGE (FURNISHED WITH BALL VALVE)
—	PRESSURE SENSOR (FURNISHED WITH BALL VALVE)
—	TEMPERATURE SENSOR WITH WELL
—	THERMOMETER WITH WELL (DIAL TYPE)
—	THERMOMETER WITH WELL (FILLED TYPE)
—	REDUCER - REFERENCE SPECIFICATION FOR CONCENTRIC/ECCENTRIC AND F0T/F0B
—	PRESSURE REDUCING VALVE (LIQUID/GAS)
—	PUMP
—	METER
—	ALIGNMENT GUIDE
—	PIPE ANCHOR
—	EXPANSION JOINT
—	#.#" IS THE EXPANSION TRAVEL INCHES
—	AIR ADMITTANCE VALVE
—	VALVE BOX
—	MEDICAL GAS OUTLET (MGO)
—	ALARM PANEL
—	HEADWALL
—	SINGLE GAS OUTLET (AIR)
—	SINGLE GAS OUTLET (OXYGEN)
—	SINGLE GAS OUTLET (VACUUM)
—	NITROGEN PRESSURE CONTROL CABINET
—	PRESSURE TRANSDUCER WITH ALARM WIRING

PLUMBING ABBREVIATION KEY	
ABBR:	DESCRIPTION:
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
BFP	BACKFLOW PREVENTER
BT	BATHTUB
CB	CATCH BASIN
CI	CAST IRON
CO	CLEANOUT
CS	CLINICAL SINK
DB	DIALYSIS BOX
DF	DRINKING FOUNTAIN
DI	DUCTILE IRON
E	EXISTING
EE	EMERGENCY EYEWASH
ES	EMERGENCY SHOWER
ESE	EMERGENCY SHOWER/EYEWASH
EWC	ELECTRIC WATER COOLER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FM	FLOW METER
FS	FLOOR SINK
GD	GARBAGE DISPOSER
GI	GREASE INTERCEPTOR
HB	HOSE BIBB
I.E.	INVERT ELEVATION (FOR REFERENCE ONLY)
LAV	LAVATORY
MB	MOP BASIN
MH	MANHOLE
MV	MIXING VALVE
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
NT	NEUTRALIZATION TANK
OS	OIL SEPARATOR
RD	ROOF DRAIN
SCCR	SHORT CIRCUIT CURRENT RATING
SH	SHOWER
SK	SINK
SS	SERVICE SINK
TD	TRENCH DRAIN
TP	TRAP PRIMER
TYP	TYPICAL
UR	URINAL
VTR	VENT THROUGH ROOF
WC	WATER CLOSET
WCO	WALL CLEANOUT
WF	WASH FOUNTAIN
WH	WATER HEATER
WMF	WASHING MACHINE FIXTURE
WM	WATER METER
WS	WATER SOFTENER
UB	UTILITY BOX
UON	UNLESS OTHERWISE NOTES
YCO	YARD CLEANOUT

MECHANICAL RENOVATION NOTES:

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

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

MECHANICAL PHASING NOTES:

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

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

PLUMBING GENERAL NOTES:

- THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MATERIALS REQUIRED FOR FULLY OPERATIONAL SYSTEMS, WHETHER SPECIFIED OR NOT.
- CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR A COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL TAKES PRECEDENCE OVER THE CATALOG NUMBER. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN.
- CONTRACTOR SHALL VERIFY THAT FIXTURES SUPPLIED ARE APPROVED PER ALL APPLICABLE STATE, LOCAL, AND GOVERNING AUTHORITIES.
- ALL FIXTURES SHALL CONFORM TO FEDERAL ACT 5 3074.
- INVERT ELEVATIONS ARE FROM EXISTING DRAWINGS AND MAY NOT BE ACCURATE. VERIFY ALL ELEVATIONS BEFORE BEGINNING WORK.
- VERIFY UNDERGROUND PIPE SIZES, INVERT ELEVATIONS, AND LOCATIONS PRIOR TO BEGINNING ANY WORK.
- REFER TO THE PLUMBING ROUGH-IN SCHEDULE FOR THE SIZES OF BRANCH PIPES TO PLUMBING FIXTURES.
- FOR CLARITY, NOT ALL VALVES HAVE BEEN SHOWN. PROVIDE SHUTOFF VALVES IN DOMESTIC WATER PIPING SERVING EACH ROOM WITH FIXTURES. ANGLE STOPS SHALL NOT BE CONSIDERED SHUTOFF VALVES.
- EXISTING CONDITIONS ON DEMOLITION PLANS ARE PROVIDED TO INDICATE THE GENERAL SCOPE OF ITEMS TO BE REMOVED.
- P.C. SHALL CUT AND PATCH EXISTING AS REQUIRED FOR NEW OR DEMOLITION WORK UNLESS NOTED OTHERWISE.

MEDICAL GAS GENERAL NOTES:

- THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MATERIALS REQUIRED FOR FULLY OPERATIONAL SYSTEMS, WHETHER SPECIFIED OR NOT.
- CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR A COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL TAKES PRECEDENCE OVER THE CATALOG NUMBER. THE FIRST MANUFACTURER IS THE BASIS OF DESIGN.
- COORDINATE EXACT LOCATIONS/ELEVATIONS OF MEDICAL GAS OUTLETS WITH ARCHITECTURAL DRAWINGS.
- REFER TO MEDICAL GAS MATERIAL LIST FOR PIPE SIZES TO INDIVIDUAL OUTLETS.

MECHANICAL GENERAL NOTES:

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

- DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
- DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
- COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY COORDINATION WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
- REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
- ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
- EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIO/VISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
- EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
- IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING.
- SEAL ALL FLOOR, WALL, AND ROOF PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE. PENETRATIONS THROUGH ROOF SHALL BE SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER FOR OUTDOOR USE.
- CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS.
- WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATERTIGHT.
- EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
- DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES.
- MAINTAIN A MINIMUM WORKING CLEARANCE OF 3'-6" IN FRONT OF ALL ELECTRICAL EQUIPMENT REQUIRING MAINTENANCE, INSPECTION, AND TESTING INCLUDING BUT NOT LIMITED TO PANELS, DISTRIBUTION PANELS, SWITCHBOARDS, MOTOR CONTROL CENTERS, TRANSFORMERS, EQUIPMENT DISCONNECTS AND STARTERS.
- MAINTAIN THE DEDICATED ELECTRICAL EQUIPMENT SPACE DEFINED BY THE WIDTH/DEPTH OF ELECTRICAL EQUIPMENT MEASURED FROM THE FLOOR TO A HEIGHT 6'-0" ABOVE THE EQUIPMENT OR THE STRUCTURAL CEILING, WHICHEVER IS LOWER. SYSTEMS FOREIGN TO THE ELECTRICAL DISTRIBUTION SYSTEM ARE NOT ALLOWED IN THE DEDICATED ELECTRICAL SPACE INCLUDING, DUCTWORK, PIPING, ETC.
- PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL EXTEND MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT.
- DO NOT SUPPORT EQUIPMENT, PIPING, OR DUCTWORK FROM METAL DECKING OR OTHER NON-STRUCTURAL BUILDING ELEMENTS. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.

PLUMBING + MEDICAL GAS SHEET INDEX	
P000	PLUMBING + MEDICAL GAS COVERSHEET
P111	FIRST FLOOR DEMOLITION - PLUMBING
P121	FIRST FLOOR DEMOLITION - MED GAS
P210	UNDERSLAB - PLUMBING
P211	FIRST FLOOR - PLUMBING
P221	FIRST FLOOR - MEDICAL GAS
P600	PLUMBING SCHEDULES
GRAND TOTAL: 7	

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Bruce E. Hart - #E-22817

07/13/2022

1710 Wyandotte
Kansas City, MO 64108
T: 816.763.9600

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Kansas City | St. Louis
Licensee's Certificate of Authority Number:
Missouri: #000958

MEP CONSULTANT

IMEG Corp.
1600 Baltimore, Suite 300
Kansas City, Missouri 64108
T: 816.842.8437
Licensee's Certificate of Authority Number:
Missouri: F001325536

SLE - HYBRID OR

100 NE Saint Luke's Blvd

Lee's Summit, MO 64086

Date 05/31/2022

Job Number 3-20034

Drawn By MJL

Checked By MJL

Revision

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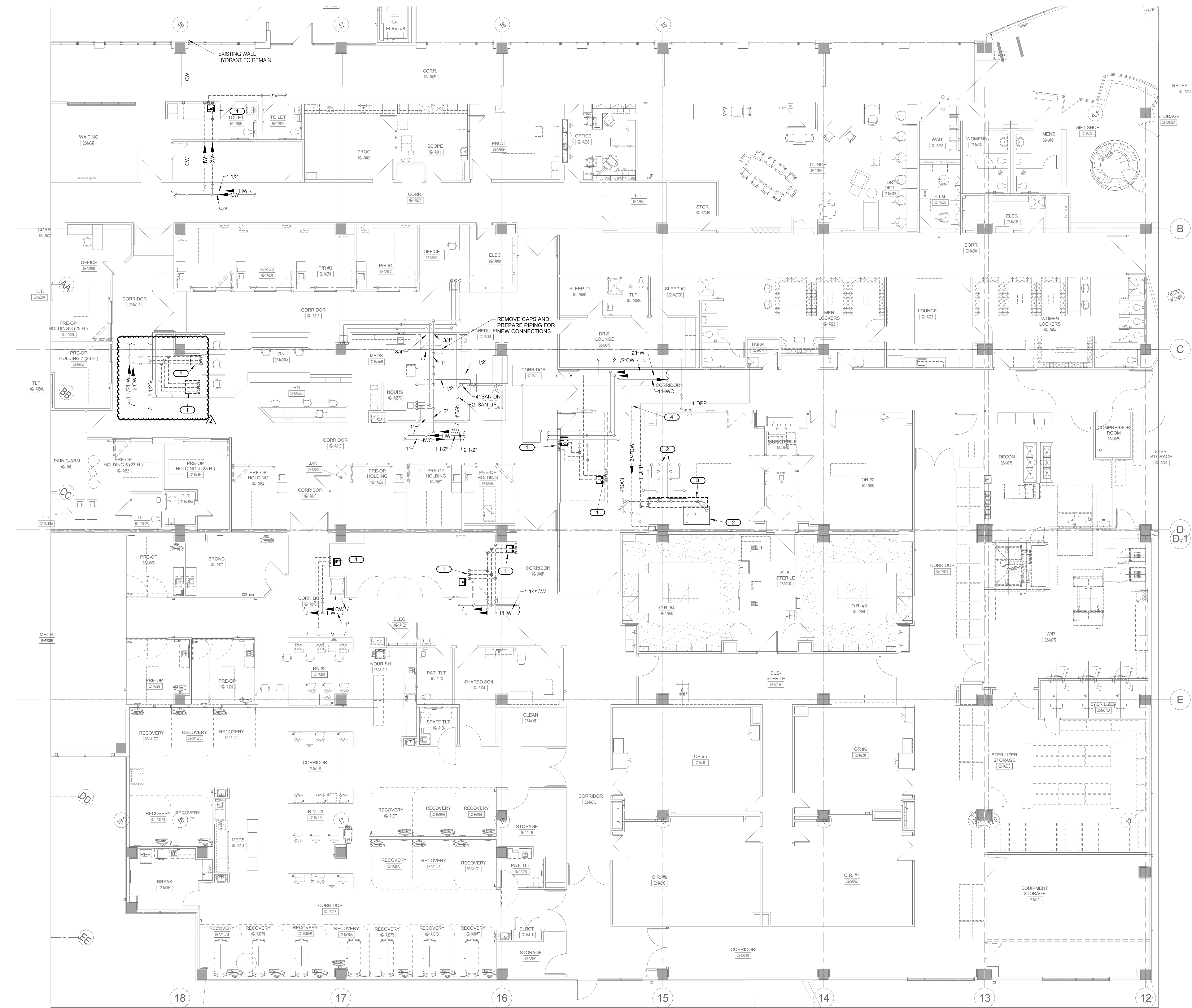
2 07/13/22 ADDENDUM 2

P000

PLUMBING + MEDICAL GAS COVERSHEET

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- SHEET NOTES:**
1. FIELD VERIFY EXACT LOCATIONS AND SIZES OF EXISTING SANITARY WASTE AND VENT PIPING SERVING PATIENT ROOMS ON SECOND FLOOR DIRECTLY ABOVE O.R. #1. AS WELL AS EXISTING SHEET METAL DRAIN PANS INSTALLED BELOW THAT PIPING, AND EXISTING SECONDARY DRAIN PIPING (DPP) ABOVE THE CEILING OF THE O.R. DISCONNECT, REMOVE, RELOCATE AND/OR RE-WORK THAT SANITARY PIPING, THOSE DRAIN PANS, AND THE SECONDARY DRAIN PIPING AS REQUIRED TO ALLOW FOR INSTALLATION OF NEW STRUCTURAL SUPPORTS, SURGICAL BOOMS, OTHER MEDICAL EQUIPMENT, MECHANICAL DUCTWORK, AIR TERMINALS, ETC. ALSO INSTALL NEW SHEET METAL DRAIN PANS BELOW ANY EXISTING SANITARY PIPING TO REMAIN THAT WAS NOT DIRECTLY ABOVE THE OLD (SMALLER) O.R. BUT ENDS UP ABOVE THE NEW (LARGER) O.R. ALL RELOCATED NEW PORTIONS OF DRAIN PANS SHALL BE 3\"/>
- KEYNOTES:**
1. DISCONNECT AND REMOVE SINK OR LAVATORY, INCLUDING ACCESSORIES. FIELD VERIFY ROUTING OF HOT, COLD AND VENT PIPING AND REMOVE PIPING NOT REQUIRED TO REMAIN BACK TO VALVES OR MAINS AND CAP. CAP SANITARY WASTE PIPING IN WALL OR BELOW SLAB AND PATCH WALL OR SLAB AS REQUIRED.
 2. EXISTING UPPER SHEET METAL DRAIN PAN FOR EXISTING SANITARY WASTE AND VENT PIPING IN STRUCTURAL PAN SPACE, SERVING SECOND FLOOR, REFER TO SHEET NOTE #1.
 3. EXISTING LOWER SHEET METAL DRAIN PAN FOR EXISTING 4\"/>

STATE OF MISSOURI
BRUCE ELDON
HART
NUMBER
P-22817
PROFESSIONAL ENGINEER
Bruce E. Hart - #E-22817
07/13/2022

**ACI
BOLAND
ARCHITECTS**
1710 Wyandotte
Kansas City, MO 64108
T: 816.763.9600

ACI/Boland, Inc.
Kansas City | St. Louis
Licensee's Certificate of Authority Number:
Missouri: #000958

MEP CONSULTANT
IMEG Corp.
1600 Baltimore, Suite 300
Kansas City, Missouri 64108
T: 816.842.8437
Licensee's Certificate of Authority Number:
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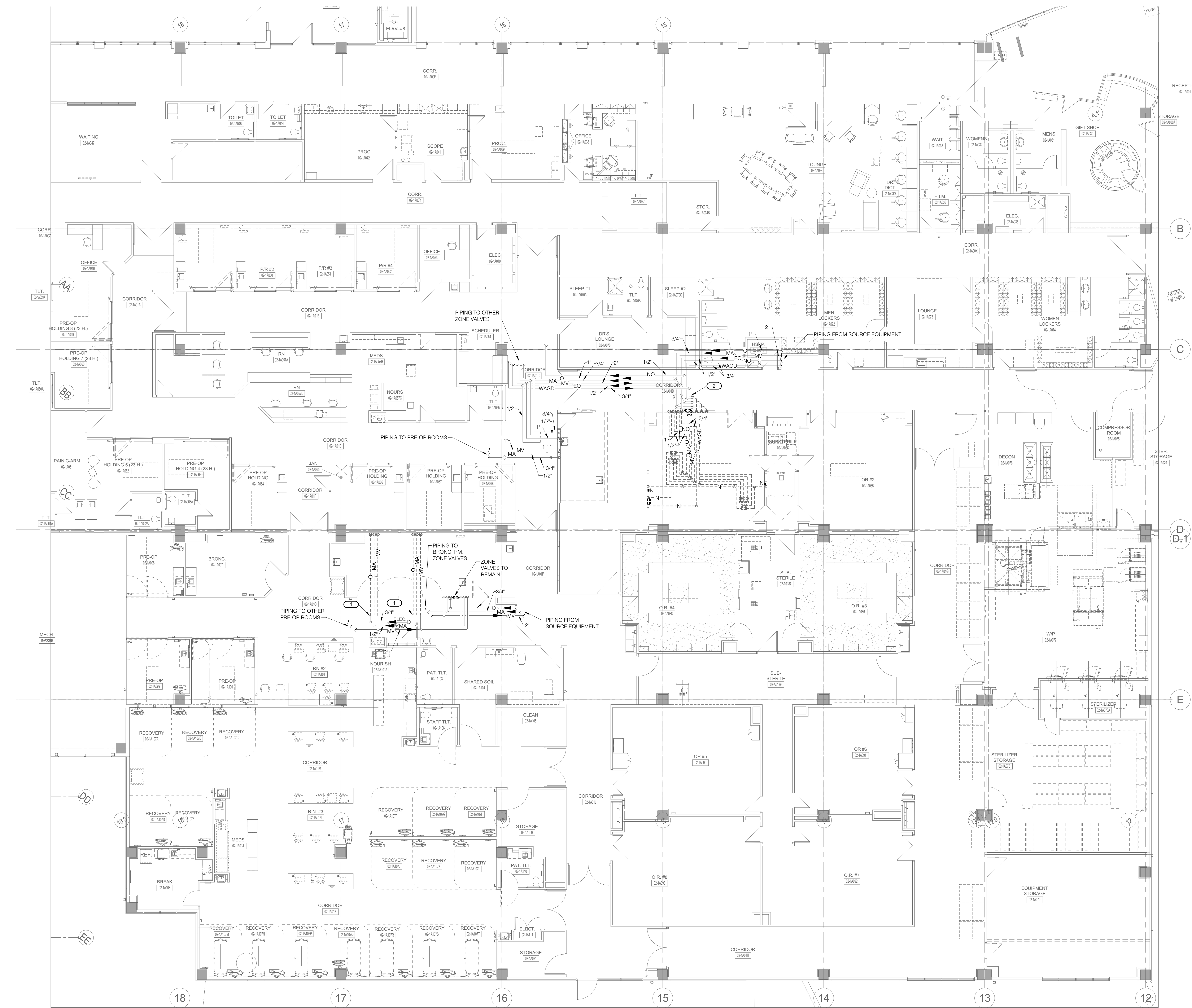
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Revision		
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2	07/13/22	ADDENDUM 2

P111
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FIRST FLOOR DEMOLITION - PLUMBING

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SHEET NOTES:
1. REFER TO P000 FOR GENERAL NOTES AND SYMBOLS.

KEYNOTES: C
1. CUT AND CAP 1/2" O, 1/2" MA AND 1" VAC AND REMOVE PIPING AS INDICATED, INCLUDING ASSOCIATED WALL. OUTLETS/INLETS NOT SHOWN (APPROXIMATELY 2 O OUTLETS, 2 MA OUTLETS AND 4 VAC INLETS PER PRE-OP ROOM). PATCH WALL AS REQUIRED.
2. CUT 1/2" O ON DOWNSTREAM SIDE OF THE NORMAL AND EMERGENCY OXYGEN SERVICE (CHANGEOVER) VALVES. THE SERVICE VALVES SHALL REMAIN. ALSO CUT 1" MV, 3/4" WAGD, 3/4" N, 1/2" MA AND 1/2" NO AND REMOVE PIPING. ZONE VALVES, CEILING OUTLETS/INLETS (APPROX. QUANTITY OF 20), NITROGEN CONTROL PANEL, WALL OUTLETS (APPROX. QUANTITY OF 2) AND ALARM PANEL SERVING O.R. #1. PROTECT REMAINING PIPING FOR NEW CONNECTIONS. RE: SHEET P221.

Missouri State Seal
Bruce E. Hart - #E-22817
07/13/2022

ACI BOLAND ARCHITECTS
1710 Wyandotte
Kansas City, MO 64108
T: 816.763.9600

ACI/Boland, Inc.
Kansas City | St. Louis
Licensee's Certificate of Authority Number:
Missouri: #000958

MEP CONSULTANT

IMEG Corp.
1600 Baltimore, Suite 300
Kansas City, Missouri 64108
T: 816.842.8437
Licensee's Certificate of Authority Number:
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100 NE Saint Luke's Blvd
Lee's Summit, MO 64086

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Checked By MJL

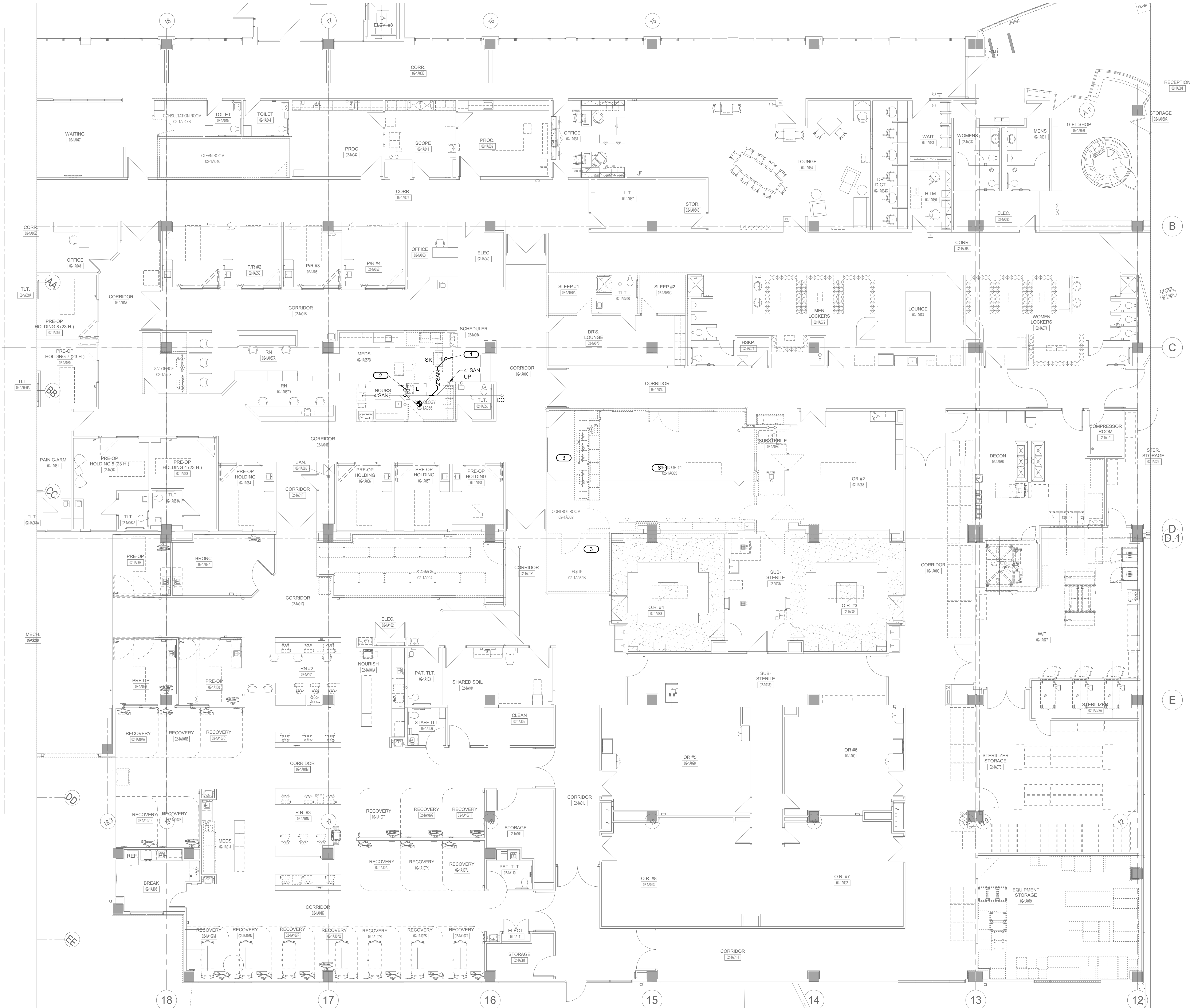
Revision
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1 FIRST FLOOR DEMOLITION - MEDICAL GAS
1/8" = 1'-0"

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FIRST FLOOR DEMOLITION - MED GAS

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SHEET NOTES:
1. REFER TO P000 FOR GENERAL NOTES AND SYMBOLS.

KEYNOTES: **#**

1. OLD DRAWINGS SHOWED A SINK NEAR THIS LOCATION THAT WAS LATER REMOVED. IF POSSIBLE, THE 2" SAN FROM THE NEW SINK SHALL CONNECT TO (PREVIOUSLY-CAPPED) 2" SAN PIPING IN THE WALL ABOVE THE SLAB. IF NOT POSSIBLE, THEN SAWCUT SLAB AS REQUIRED TO INSTALL NEW 2" SAN BELOW SLAB AS INDICATED, THEN PATCH SLAB TO MATCH EXISTING.
2. IF POSSIBLE, THE 2" SAN FROM THE NEW LAVATORY SHALL CONNECT TO THE EXISTING 2" SAN IN THE WALL ABOVE THE SLAB (SERVING THE ADJACENT SINK ON OPPOSITE SIDE OF WALL). IF NOT POSSIBLE, THEN SAWCUT SLAB AS REQUIRED TO CONNECT NEW 2" SAN INTO TOP OF EXISTING 4" SAN BELOW SLAB AS INDICATED, THEN PATCH SLAB TO MATCH EXISTING.
3. THE MEP WORK SHOWN IN THIS ROOM IS PRELIMINARY AND WAITING ON FINAL ROOM LAYOUT AND VENDOR EQUIPMENT INFORMATION. REFER TO SEPARATE NARRATIVE ISSUED WITH DOCUMENTS FOR ADDITIONAL INFORMATION FOR PRICING PURPOSES.

STATE OF MISSOURI
BRUCE E. HART
NUMBER
22817
PROFESSIONAL ENGINEER

Bruce E. Hart - #E-22817
07/13/2022

ACI
BOLAND
ARCHITECTS

1710 Wyandotte
Kansas City, MO 64108
T: 816.763.9600

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IMEG Corp.
1600 Baltimore, Suite 300
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1 UNDERFLOOR - PLUMBING
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KANSAS CITY, MO 64108
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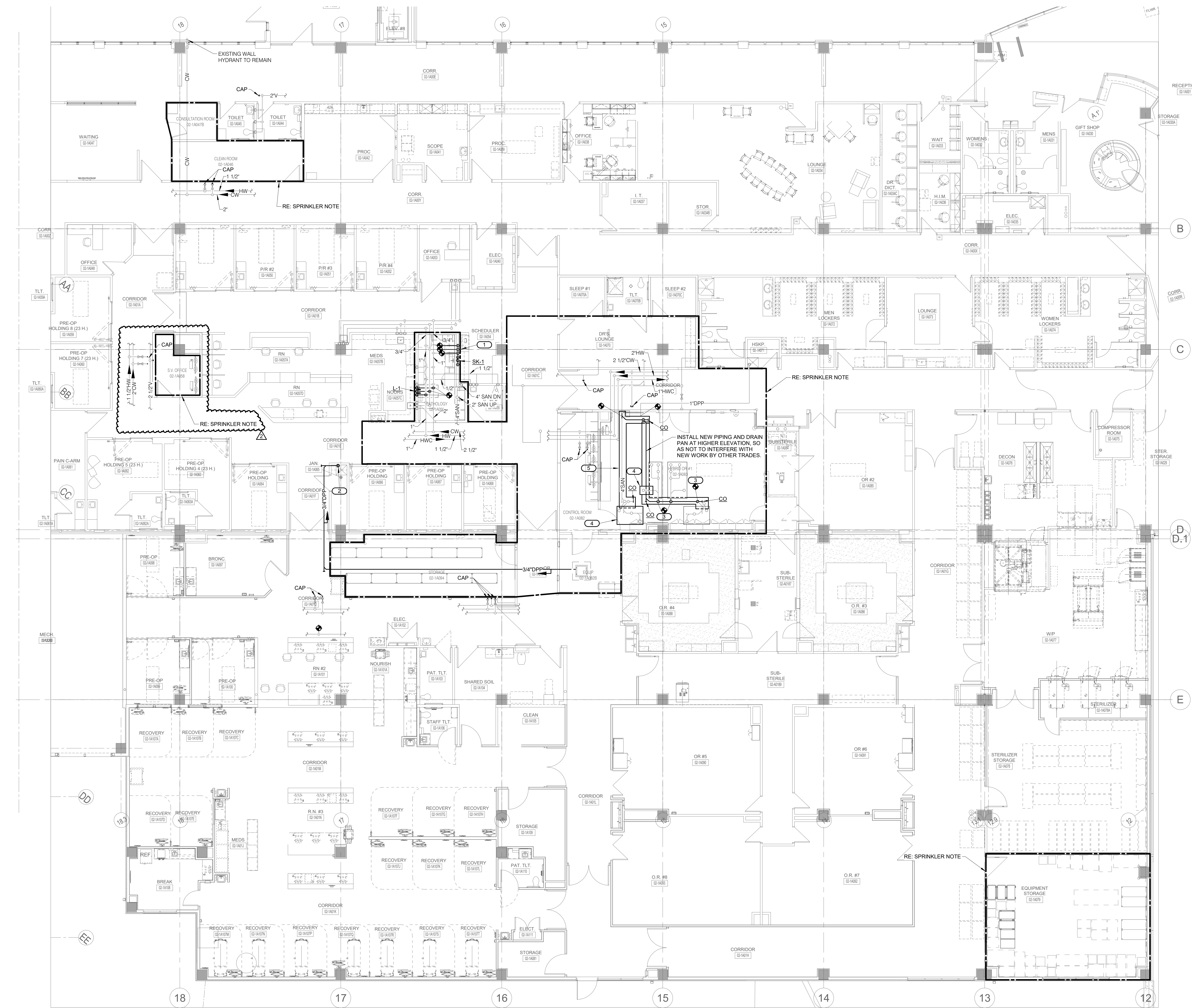
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P210

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UNDERSLAB - PLUMBING

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

SHEET NOTES:

1. FIELD VERIFY EXACT LOCATIONS AND SIZES OF EXISTING SANITARY WASTE AND VENT PIPING SERVING PATIENT ROOMS ON SECOND FLOOR DIRECTLY ABOVE O.R. #1. AS WELL AS EXISTING SHEET METAL DRAIN PANS INSTALLED BELOW THAT PIPING, AND EXISTING SECONDARY DRAIN PIPING (DPP) ABOVE THE CEILING OF THE O.R. DISCONNECT, REMOVE, RELOCATE AND/OR REWORK THAT SANITARY PIPING, THOSE DRAIN PANS, AND THE SECONDARY DRAIN PIPING AS REQUIRED TO ALLOW FOR INSTALLATION OF NEW STRUCTURAL SUPPORTS, SURGICAL BOOMS, OTHER MEDICAL EQUIPMENT, MECHANICAL DUCTWORK, AIR TERMINALS, ETC. ALSO INSTALL NEW SHEET METAL DRAIN PANS BELOW ANY EXISTING SANITARY PIPING TO REMAIN THAT WAS NOT DIRECTLY ABOVE THE OLD (SMALLER) O.R. BUT ENDS UP ABOVE THE NEW (LARGER) O.R. ALL RELOCATED NEW PORTIONS OF DRAIN PANS SHALL BE 3" DEEP, SEALED WATER-TIGHT, AND SHALL BE PITCHED DOWN TO A 1" SECONDARY DRAIN PIPE CONNECTION AT THE LOWEST PART OF THE PAN. THE 1" DPP PIPING FROM EACH PAN SHALL BE PITCHED TO DRAIN BY GRAVITY AND SHALL EITHER DRAIN INTO A NEARBY PAN, OR CONNECT INTO THE EXISTING 1" DPP PIPING EXISTING THE O.R.

KEYNOTES:

1. ROUTE PIPING DOWN IN WALL TO THE SIDE OF NEW SINK, TO AVOID INTERFERENCE WITH NEW DUCTWORK IN WALL, THEN OFFSET BELOW DUCTWORK TO BELOW SINK.
2. TURN DRAIN PIPING DOWN ON FACE OF WALL AND TERMINATE OVER EXISTING JANITOR SINK, PROVIDE A SIGN THAT READS: "CONDENSATE DRAIN PIPING FROM EQUIPMENT ROOM 1A207."
3. CONNECT TO (3) VERTICAL PIPES WHERE THEY WERE CUT DURING DEMOLITION. INSTALL NEW HORIZONTAL 4" SAN PIPING AT HIGHER ELEVATION (BESIDE EXISTING RETURN AIR DUCTWORK) AS REQUIRED TO AVOID INTERFERENCE WITH NEW WORK BY OTHER TRADES. PIPING MAY TURN DOWN TO A LOWER ELEVATION NEAR PERIMETER OF ROOM, WHERE IT WOULD NOT INTERFERE WITH OTHER WORK. PROVIDE NEW DRAIN PANS BELOW PIPING AS DESCRIBED IN SHEET NOTE #1.
4. PROVIDE NEW DRAIN PAN AT HIGH ELEVATION, BELOW EXISTING UPPER SANITARY WASTE AND VENT PIPING THAT WAS FORMERLY IN A DIFFERENT ROOM, BUT IS NOW ABOVE THE NEW, LARGER O.R. #1 AS DESCRIBED IN SHEET NOTE #1.
5. PROVIDE NEW DRAIN PAN AT LOWER ELEVATION, BELOW EXISTING 4" SANITARY WASTE MAIN PIPING THAT WAS FORMERLY IN A DIFFERENT ROOM, BUT IS NOW ABOVE THE NEW, LARGER O.R. #1, AS DESCRIBED IN SHEET NOTE #1.

SPRINKLER NOTE:

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

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BRUCE ELDON
HART
NUMBER
F-22817
PROFESSIONAL ENGINEER
Bruce E. Hart - #E-22817
07/13/2022

**ACI
BOLAND
ARCHITECTS**
1710 Wyandotte
Kansas City, MO 64108
T: 816.763.9600
ACI/Boland, Inc.
Kansas City | St. Louis
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Missouri: #000958
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IMEG Corp.
1600 Baltimore, Suite 300
Kansas City, Missouri 64108
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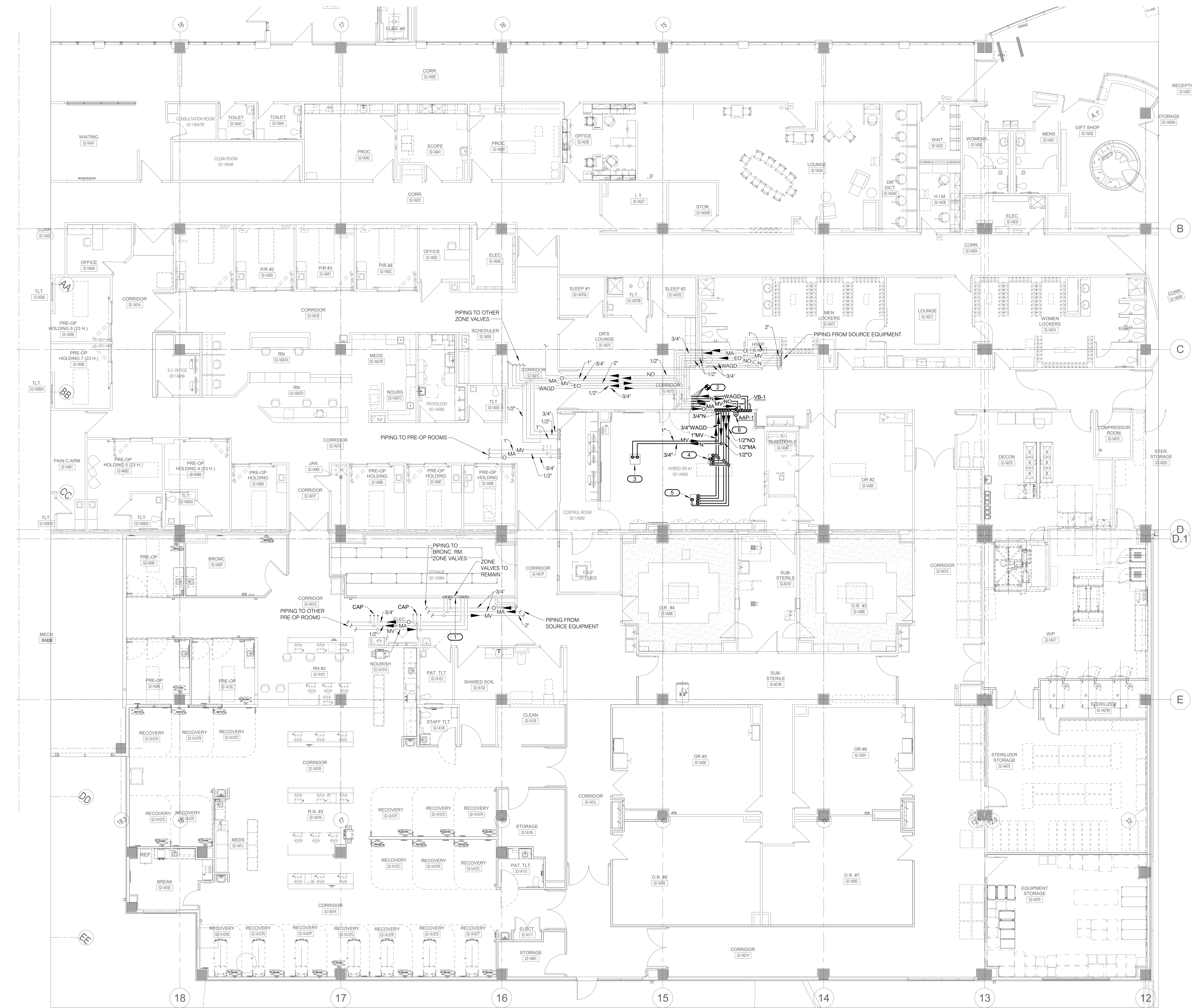
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Checked By	MJO

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2	07/13/22	ADDENDUM 2

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FIRST FLOOR - PLUMBING

P211

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1 FIRST FLOOR - MEDICAL GAS
1/8" = 1'-0"

SHEET NOTES:
1. REFER TO P000 FOR GENERAL NOTES AND SYMBOLS.

- KEYNOTES:** **#**
1. UPDATE LABEL ON ZONE VALVE BOX TO REFLECT ROOMS SERVED.
 2. CONNECT TO 1/2" O WHERE IT WAS CUT DURING DEMOLITION. ON DOWNSTREAM SIDE OF EXISTING NORMAL AND EMERGENCY OXYGEN SERVICE (CHANGEOVER) VALVES. ALSO CONNECT TO 1" MV, 3/4" WAGD, 3/4" N, 1/2" MA AND 1/2" NO WHERE THEY WERE CUT DURING DEMOLITION AND EXTEND TO NEW VALVE BOX AS SHOWN. VALVE BOX SHALL FACE CORRIDOR.
 3. CONNECT 1" MV AND 3/4" N TO PIPING CONNECTIONS ON STRYKER EQUIPMENT BOOM, PER STRYKER'S WRITTEN INSTRUCTIONS. ROOM TO HAVE (4) MV INLETS AND (1) NITROGEN CONTROL PANEL WITH OUTLET.
 4. CONNECT 1" MV, 3/4" WAGD, 1/2" O, 1/2" MA AND 1/2" NO TO PIPING CONNECTIONS ON STRYKER ANESTHESIA BOOM, PER STRYKER'S WRITTEN INSTRUCTIONS. ROOM TO HAVE (4) MV INLETS, (1) WAGD INLET, (2) O OUTLETS, (1) MA OUTLET AND (1) NO OUTLET.
 5. CONNECT 1" MV, 3/4" WAGD, 1/2" O, 1/2" MA AND 1/2" NO TO PIPING CONNECTIONS ON STRYKER UTILITY BOOM, PER STRYKER'S WRITTEN INSTRUCTIONS. ROOM TO HAVE (2) MV INLETS, (1) WAGD INLET, (2) O OUTLETS, (1) MA OUTLET AND (1) NO OUTLET.
 6. COORDINATE EXACT LOCATION OF AREA ALARM PANEL WITH ARCHITECT PRIOR TO INSTALLATION OF PIPING IN WALL, TO ENSURE PIPING DOES NOT INTERFERE WITH PANEL.

STATE OF MISSOURI
BRUCE ELDON
HART
NUMBER
2-22817
PROFESSIONAL ENGINEER
Bruce E. Hart - #E-22817
07/13/2022

ACI BOLAND ARCHITECTS

1710 Wyandotte
Kansas City, MO 64108
T: 816.763.9600

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

MEP CONSULTANT

IMEG Corp.
1600 Baltimore, Suite 300
Kansas City, Missouri 64108
T: 816.842.8437
Licensee's Certificate of Authority Number:
Missouri: F001325536

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Lee's Summit, MO 64086

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NAME

10'-0"

HEIGHT ABOVE PROJECT 0'-0"

LEVEL NAME

INDICATES DIRECTION OF TRUE NORTH

PLAN OR DETAIL NUMBER

PLAN OR DETAIL NAME

1

VIEW NAME

1/8" = 1'-0"

PLAN OR DETAIL SCALE

INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS

DETAIL REFERRED TO BY SECTION CUT

SIM

M101

T101

3

LINE TYPE AND TAG KEY:

NEW WORK BY THIS CONTRACTOR (WIDE LINE)

EXISTING TO BE REMOVED (SHORT DASHED PATTERN)

NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)

EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)

EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

HALFTONING DOES NOT MODIFY SCOPE.

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

TAG-1 UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST

INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

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

MECHANICAL SYMBOL LIST	
NOT ALL SYMBOLS MAY APPLY.	
SYMBOL:	DESCRIPTION:
—	DIRECTION OF AIR FLOW
—	FLEXIBLE DUCT
—	MANUAL VOLUME DAMPER
—R—	RISE IN DIRECTION OF AIR FLOW
—D—	DROP IN DIRECTION OF AIR FLOW
—	DUCT CAP
—	DUCT DOWN
—	DUCT UP
—	SUPPLY/OUTSIDE AIR DUCT SECTION
—	RETURN AIR DUCT SECTION
—	EXHAUST/RELIEF AIR DUCT SECTION
—	4-WAY DIFFUSER WITH BLANKOFF IN ONE DIRECTION
—SD-1 6/115	AIR TERMINAL PROPERTIES SYMBOL NECK SIZE/CFM
—	TERMINAL AIR BOX (REFER TO SCHEDULE)
—	TERMINAL AIR BOX w/REHEAT COIL (REFER TO SCHEDULE)
—	FAN POWERED TERMINAL AIR BOX w/REHEAT COIL (REFER TO SCHEDULE)
—	HUMIDIFIER
—	OPPOSED BLADE DAMPER (REFER TO SCHEDULE)
—	PARALLEL BLADE DAMPER (REFER TO SCHEDULE)
—	DIFFERENTIAL PRESSURE SENSOR
—	HUMIDISTAT SENSOR
—	HUMIDISTAT / SENSOR
—	CARBON MONOXIDE SENSOR
—	CARBON DIOXIDE SENSOR
—	OCCUPANCY SENSOR
—	PRESSURE SENSOR/MONITOR
—	PRESSURE SENSOR (DUCT MOUNTED)
—	THERMOSTAT/SENSOR
—	TEMPERATURE SENSOR
—	THERMOSTAT/SENSOR WITH HEAVY DUTY ENCLOSURE
—	TEMPERATURE SENSOR WITH WELL
—	THERMOMETER WITH WELL (DIAL TYPE)
—	THERMOMETER WITH WELL (FILLED TYPE)
—XX-Y	AIRFLOW MEASUREMENT SYMBOL XX - AHU SYMBOL Y - SEQUENTIAL NUMBER

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

MECHANICAL RENOVATION NOTES:

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

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

MECHANICAL PHASING NOTES:

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

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

TAB PRE-DEMOLITION NOTES:

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

TAB POST-CONSTRUCTION NOTES:

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

PIPING GENERAL NOTES:

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

VENTILATION GENERAL NOTES:

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

MECHANICAL GENERAL NOTES:

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

- DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
- DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
- COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
- ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
- EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIOVISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
- EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
- IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING.
- SEAL ALL FLOOR, WALL, AND ROOF PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE. PENETRATIONS THROUGH ROOF SHALL BE SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER FOR OUTDOOR USE.
- CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS.
- WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATERTIGHT.
- EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
- DO NOT BLOCK TUBE FULL OR EQUIPMENT SERVICE CLEARANCES.
- MAINTAIN A MINIMUM WORKING CLEARANCE OF 3'-6" IN FRONT OF ALL ELECTRICAL EQUIPMENT REQUIRING MAINTENANCE, INSPECTION, AND TESTING INCLUDING BUT NOT LIMITED TO PANELS, DISTRIBUTION PANELS, SWITCHBOARDS, MOTOR CONTROL CENTERS, TRANSFORMERS, EQUIPMENT DISCONNECTS AND STARTERS.
- MAINTAIN THE DEDICATED ELECTRICAL EQUIPMENT SPACE DEFINED BY THE WIDTH / DEPTH OF ELECTRICAL EQUIPMENT MEASURED FROM THE FLOOR TO A HEIGHT 6'-0" ABOVE THE EQUIPMENT OR THE STRUCTURAL CEILING, WHICHEVER IS LOWER. SYSTEMS FOREIGN TO THE ELECTRICAL DISTRIBUTION SYSTEM ARE NOT ALLOWED IN THE DEDICATED ELECTRICAL SPACE INCLUDING: DUCTWORK, PIPING, ETC.
- PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL EXTEND MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT.
- DO NOT SUPPORT EQUIPMENT, PIPING, OR DUCTWORK FROM METAL DECKING OR OTHER NON-STRUCTURAL BUILDING ELEMENTS. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.

MECHANICAL SHEET INDEX

M000	MECHANICAL COVERSHEET
M111	FIRST FLOOR DEMOLITION - VENTILATION
M121	FIRST FLOOR DEMOLITION - PIPING
M211	FIRST FLOOR - VENTILATION
M221	FIRST FLOOR - PIPING
M400	MECHANICAL DETAILS
M500	TEMPERATURE CONTROL
M600	MECHANICAL SCHEDULES
ME212	SECOND/THIRD FLOOR - VENTILATION/POWER
GRAND TOTAL: 9	

IMEG

1900 BALTIMORE SUITE 300
KANSAS CITY, MO 64108
816.842.8437
www.imegcorp.com
PROJECT # 22000825.00

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REFERENCE SCALE IN INCHES
0 1 2 3

STATE OF MISSOURI

BRUCE ELDON, D. HART

NUMBER 22817

PROFESSIONAL ENGINEER

Bruce E. Hart - BE-22817

07/13/2022

ACI

BOLAND

ARCHITECTS

1710 Wyandotte
Kansas City, MO 64108
T: 816.763.9600

ACI/Boland, Inc.
Kansas City | St. Louis
Licensee's Certificate of Authority Number:
Missouri: #000958

MEP CONSULTANT

IMEG Corp.
1600 Baltimore, Suite 300
Kansas City, Missouri 64108
T: 816.842.8437
Licensee's Certificate of Authority Number:
Missouri: F001325536

SLE - HYBRID OR

100 NE Saint Luke's Blvd

Lee's Summit, MO 64086

Date 05/31/2022

Job Number 3-20034

Drawn By MJL

Checked By MJO

Revision

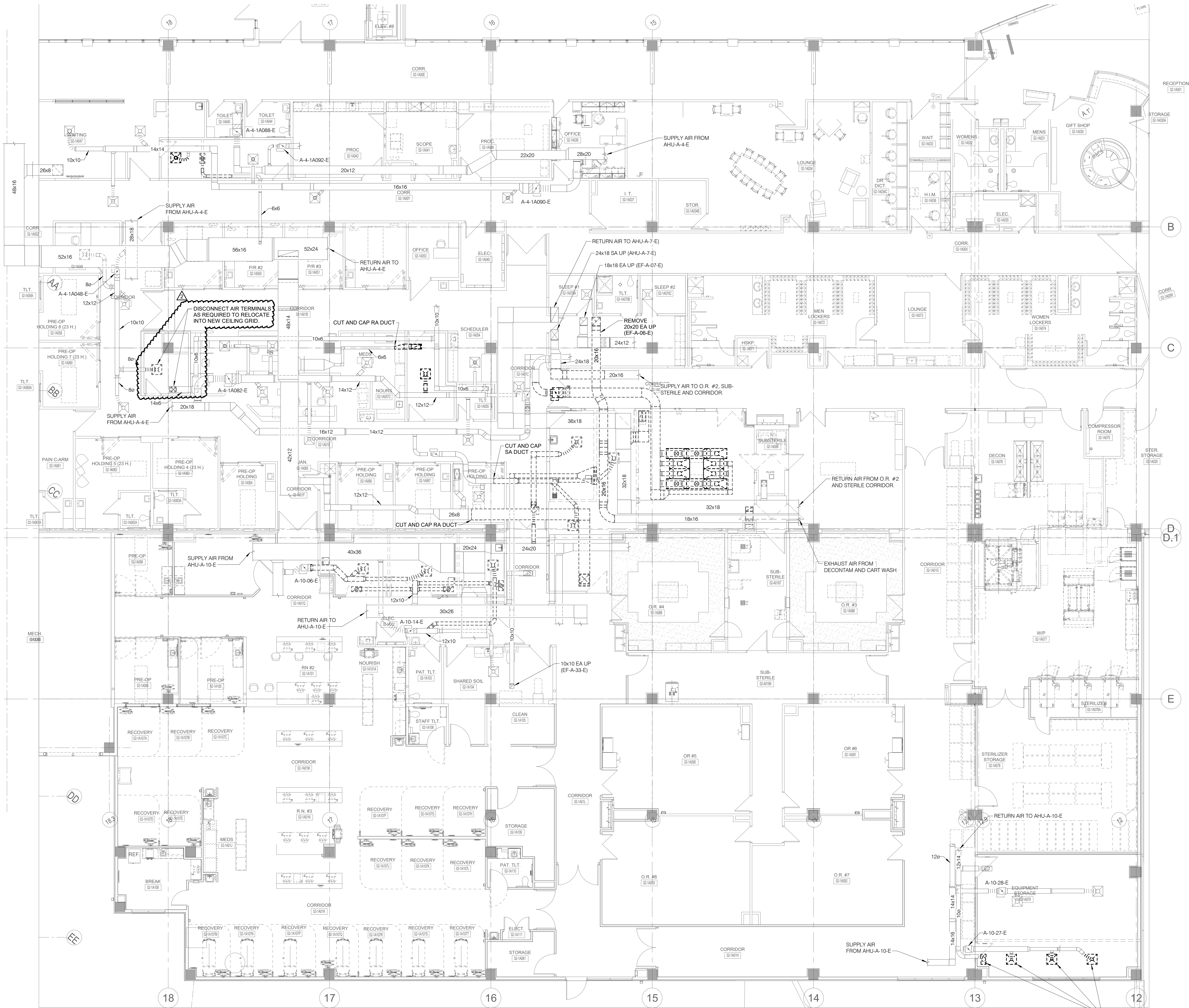
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M000

MECHANICAL COVERSHEET

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BIN 360/22000825.00 - STLH-Lee's Summit- MO-Hybrid ORMEP21_22000825.00_STLH-Lee's Summit- MO-Hybrid
OR_Crv



- SHEET NOTES:**
- SOME TERMINAL AIR BOX TAGS SHOWN ON THESE DRAWINGS ARE BASED ON ROOM NUMBERS SERVED IN THE NEW WORK AND MAY NOT MATCH THE BOX TAGS IN THE FACILITY MANAGEMENT AND CONTROL SYSTEM (FMCS).
 - AIR TERMINALS SHOWN TO BE DEMOLISHED MAY INSTEAD BE CLEANED AND RE-USED, IF THEY ARE IN GOOD CONDITION AND MATCH THE TYPE AND SIZE OF AIR TERMINALS IN THE NEW DESIGN.

STATE OF MISSOURI
BRUCE E. HART
REGISTERED PROFESSIONAL ENGINEER
NUMBER 22817
07/13/2022

ACI BOLAND ARCHITECTS

1710 Wyandotte
Kansas City, MO 64108
T: 816.763.9600

ACI/Boland, Inc.
Kansas City | St. Louis
Licensee's Certificate of Authority Number:
Missouri: #000958

MEP CONSULTANT

IMEG Corp.
1600 Baltimore, Suite 300
Kansas City, Missouri 64108
T: 816.842.8437
Licensee's Certificate of Authority Number:
Missouri: F001325536

SLE - HYBRID OR
100 NE Saint Luke's Blvd
Lee's Summit, MO 64086

Date 05/31/2022
Job Number 3-20034
Drawn By MJL
Checked By MJL

Revision
Number Date Description
2 07/13/22 ADDENDUM 2

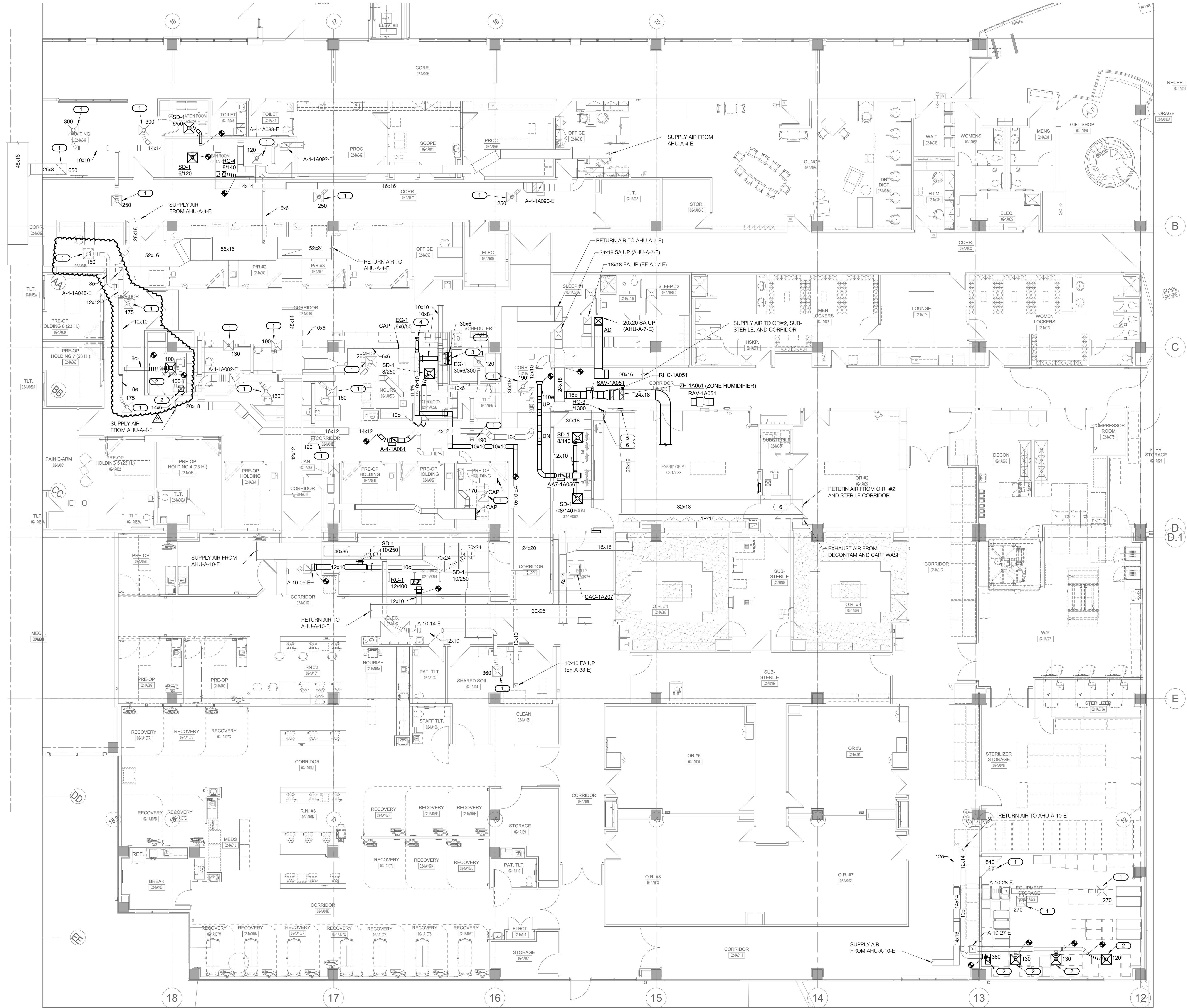
1 FIRST FLOOR DEMOLITION - VENTILATION

1/8" = 1'-0"

IMEG
1600 BALTIMORE SUITE 300
KANSAS CITY, MO 64108
816.842.8437
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FIRST FLOOR DEMOLITION -
VENTILATION

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1 FIRST FLOOR - VENTILATION
1/8" = 1'-0"

- SHEET NOTES:**
- SOME TERMINAL AIR BOX TAGS SHOWN ON THESE DRAWINGS ARE BASED ON ROOM NUMBERS SERVED IN THE NEW WORK AND MAY NOT MATCH THE BOX TAGS IN THE FACILITY MANAGEMENT AND CONTROL SYSTEM (FMCS).
 - AIR TERMINALS SHOWN TO BE DEMOLISHED MAY INSTEAD BE CLEANED AND RE-USED, IF THEY ARE IN GOOD CONDITION AND MATCH THE TYPE AND SIZE OF AIR TERMINALS IN THE NEW DESIGN.

- KEYNOTES:**
- BALANCE EXISTING AIR TERMINAL TO NEW AIRFLOW RATE (CFM) INDICATED.
 - NEW LOCATION FOR AIR TERMINAL THAT WAS DISCONNECTED DURING DEMOLITION. BALANCE TO NEW AIRFLOW RATE (CFM) INDICATED.
 - 30x6 EA DOWN IN WALL TO AIR TERMINAL. INSTALL AIR TERMINAL JUST ABOVE COUNTERTOP. COORDINATE EXACT LOCATION WITH ARCHITECT.
 - MOUNT EXHAUST AIR TERMINAL INSIDE TOP OF STORAGE CABINET.
 - NEW OPERATING ROOM TEMPERATURE & HUMIDITY CONTROL PANEL. COORDINATE EXACT LOCATION WITH ARCHITECT. PANEL SHALL HAVE 7" TOUCHSCREEN AND ACCESSORIES AS REQUIRED.
 - INSTALL NEW RETURN AIR TERMINAL IN WALL OF CHASE WITH BOTTOM APPROX. 8" ABOVE FINISHED FLOOR.
 - APPROXIMATE LOCATION FOR DUCT MOUNTED RETURN AIR TEMPERATURE AND HUMIDITY SENSORS FOR THE NEW HYBRID O.R. #1. COORDINATE EXACT LOCATION TO ENSURE THESE ITEMS ARE ACCESSIBLE THROUGH AN ARCHITECTURAL CEILING ACCESS PANEL.

STATE OF MISSOURI
BRUCE E. HART
NUMBER 2-22817
PROFESSIONAL ENGINEER
Bruce E. Hart - #E-22817
07/13/2022

ACI BOLAND ARCHITECTS
1710 Wyandotte
Kansas City, MO 64108
T: 816.763.9600

ACI/Boland, Inc.
Kansas City | St. Louis
Licensee's Certificate of Authority Number:
Missouri: #000958

MEP CONSULTANT
IMEG Corp.
1600 Baltimore, Suite 300
Kansas City, Missouri 64108
T: 816.842.8437
Licensee's Certificate of Authority Number:
Missouri: F001325536

SLE - HYBRID OR
100 NE Saint Luke's Blvd
Lee's Summit, MO 64086

Date 05/31/2022
Job Number 3-20034
Drawn By MJL
Checked By MJL

Revision
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2 07/13/22 ADDENDUM 2

IMEG
1600 BALTIMORE SUITE 300
KANSAS CITY, MO 64108
816.842.8437
www.imegcorp.com
PROJECT # 22000825.00

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1" = 1'-0"

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

- SHEET NOTES:**
- SOME TERMINAL AIR BOX TAGS SHOWN ON THESE DRAWINGS ARE BASED ON ROOM NUMBERS SERVED IN THE NEW WORK AND MAY NOT MATCH THE BOX TAGS IN THE FACILITY MANAGEMENT AND CONTROL SYSTEM (FMCS).
 - EXISTING FMCS IS A JOHNSON METASYS SYSTEM. IF A NEW FMCS NETWORK CONTROLLER OR ANY OTHER CENTRALIZED HARDWARE IS REQUIRED TO ALLOW FOR THE NEW CONTROLS, OR IF NEW COMMUNICATIONS WIRING IS REQUIRED, OR IF FMCS SOFTWARE UPDATES ARE REQUIRED, THEN ANVALL OF THOSE SHALL BE INCLUDED IN THE SCOPE OF WORK.
- KEYNOTES:** **#**
- INSTALL TEMPERATURE AND HUMIDITY SENSORS FOR HYBRID OR #1 1A051 IN THE NEW RETURN AIR DUCTWORK DOWNSTREAM OF RAY-1A051 AND UPSTREAM OF THE TIE-IN TO THE RETURN AIR DUCT MAIN SERVING OTHER AREAS. COORDINATE EXACT LOCATION SUCH THAT SENSORS ARE ACCESSIBLE VIA A CEILING ACCESS PANEL.

STATE OF MISSOURI
BRUCE E. HART
REGISTERED PROFESSIONAL ENGINEER
NUMBER 22267
EXPIRATION 07/13/2022

ACI BOLAND ARCHITECTS
1710 Wyandotte
Kansas City, MO 64108
T: 816.763.9600

ACI/Boland, Inc.
Kansas City | St. Louis
Licensee's Certificate of Authority Number:
Missouri: #000958

MEP CONSULTANT
IMEG Corp.
1600 Baltimore, Suite 300
Kansas City, Missouri 64108
T: 816.842.8437
Licensee's Certificate of Authority Number:
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SLE - HYBRID OR
100 NE Saint Luke's Blvd
Lee's Summit, MO 64086

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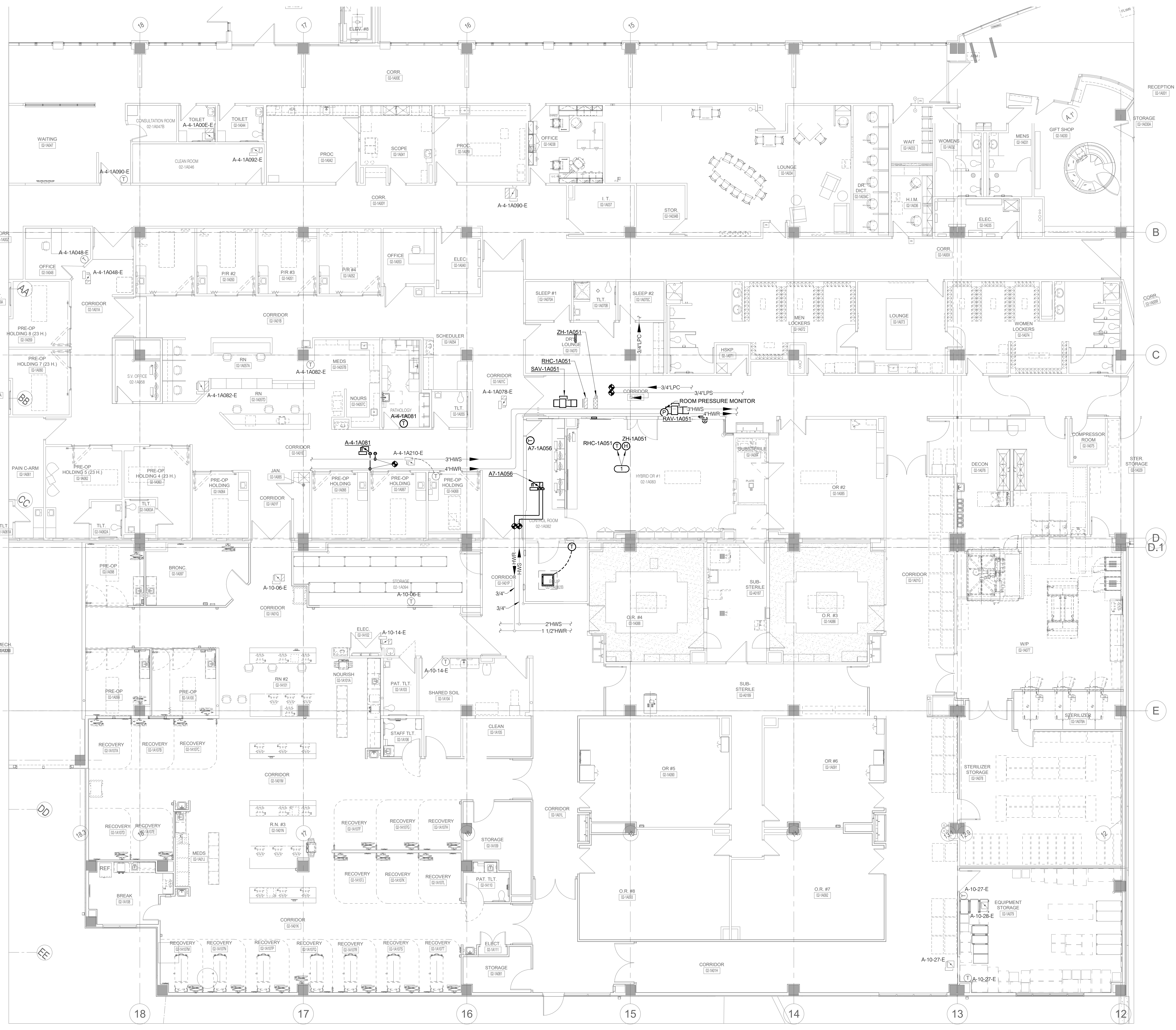
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1600 BALTIMORE SUITE 300
KANSAS CITY, MO 64108
816.842.8437
www.imegcorp.com
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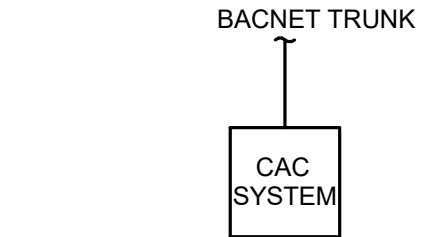
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FIRST FLOOR - PIPING



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

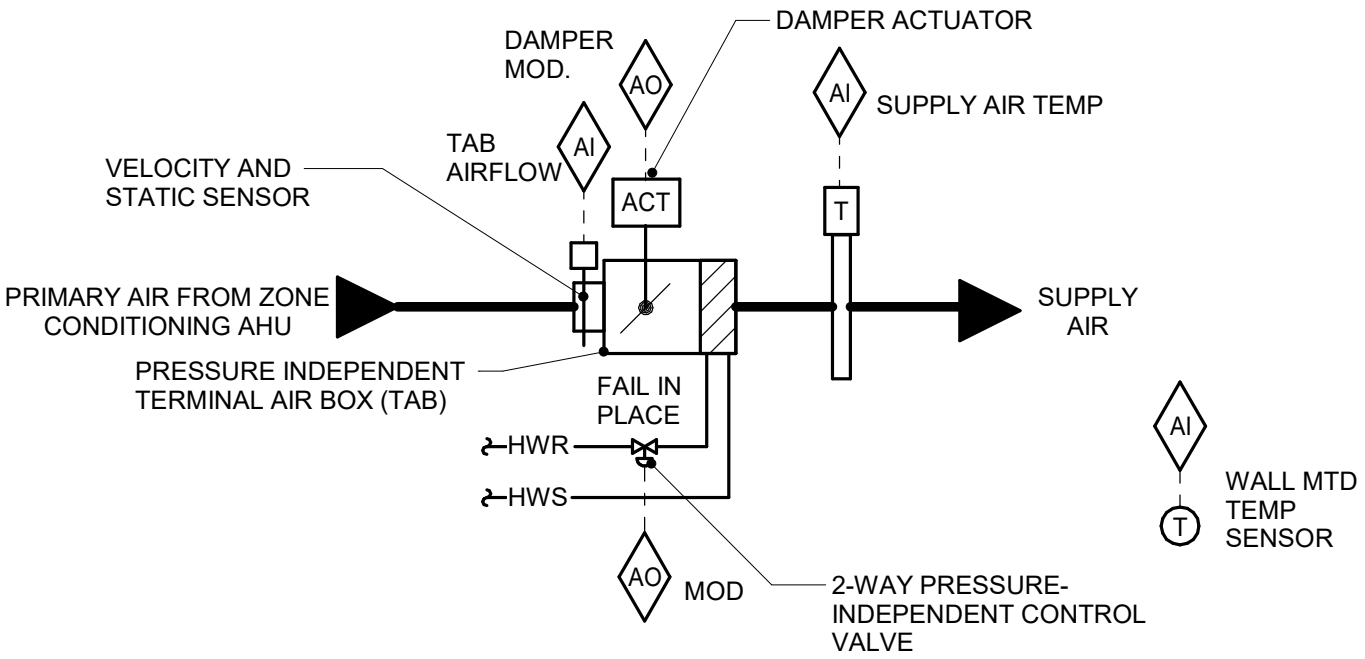
TEMPERATURE CONTROLS ABBREVIATION KEY		
ABBR:	DESCRIPTION:	
EA	EXHAUST/RELIEF AIR	
MA	MIXED AIR	
MV	MIXING VALVE	
N.C.	NORMALLY CLOSED	
NIC	NOT IN CONTRACT	
N.O.	NORMALLY OPEN	
OA	OUTSIDE AIR	
TYP	TYPICAL	
RA	RETURN AIR	
SA	SUPPLY AIR	
UON	UNLESS OTHERWISE NOTES	



SEQUENCE OF OPERATION
COMPUTER ROOM AIR-CONDITIONING UNIT (CAC) SYSTEM INCLUDES FACTORY-MOUNTED CONTROLS WITH BACNET COMMUNICATIONS CAPABILITY. PROVIDE A BACNET CONNECTION TO THE FACILITY MANAGEMENT AND CONTROL SYSTEM (FMCS), AND COORDINATE WITH THE OWNER THE POINTS TO MAP TO THE FMCS, AND PROVIDE GRAPHICS ON FMCS OPERATOR INTERFACE AS REQUIRED.

1 COMPUTER ROOM UNIT SYSTEM CONTROL DIAGRAM

12" = 1'-0"



SEQUENCE OF OPERATION:

- FMCS TAB CONTROLLER SHALL MODULATE THE TAB DAMPER AND TAB HEATING WATER REHEAT COIL TO MAINTAIN SPACE SETPOINT BASED ON A SIGNAL FROM A WALL MOUNTED TEMPERATURE SENSOR.
- AT FULL COOLING, THE TAB SHALL BE OPEN TO MAXIMUM CFM POSITION. THE REHEAT COIL CONTROL VALVE SHALL BE CLOSED.
- UPON A FALL IN SPACE TEMPERATURE, THE TAB SHALL MODULATE CLOSED UNTIL SPACE SETPOINT IS MAINTAINED, OR UNTIL IT REACHES ITS MINIMUM SCHEDULED CFM POSITION THE REHEAT COIL CONTROL VALVE SHALL BE CLOSED.
- UPON A FURTHER FALL IN SPACE TEMPERATURE, THE REHEAT COIL CONTROL VALVE SHALL MODULATE OPEN TO MAINTAIN SPACE SETPOINT UNTIL THE SUPPLY AIR TEMPERATURE IS 20°F ABOVE ROOM TEMPERATURE SETPOINT.
- UPON A FURTHER FALL IN SPACE TEMPERATURE, TAB SHALL OPEN TO MAINTAIN SETPOINT UNTIL TAB AIRFLOW REACHES ITS MAXIMUM HEATING SETTING. THE REHEAT CONTROL VALVE SHALL CONTINUE TO MODULATE OPEN TO MAINTAIN MAXIMUM DELTA T LISTED ABOVE.
- THE FMCS OPERATOR SHALL HAVE THE ABILITY TO ADJUST, OVERRIDE, AND DISPLAY TEMPERATURES AND SET POINTS FROM THE EXISTING FMCS WORKSTATION.

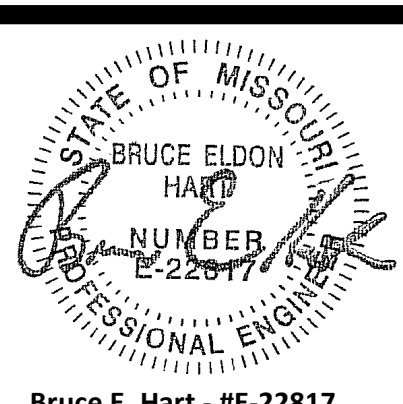
ALARMS, INTERLOCKS & SAFETIES:
SEND AN ALARM TO THE FMCS OPERATOR INTERFACE IF THE SPACE TEMPERATURE IS MORE THAN 10°F (ADJ.) ABOVE OR BELOW SETPOINT.

2 TAB CONTROL W/ HOT WATER REHEAT

NO SCALE

TEMPERATURE CONTROL GENERAL NOTES:

- REFER TO EQUIPMENT SCHEDULES TO CROSS REFERENCE WHICH CONTROL DIAGRAMS APPLY TO WHICH ITEMS OF EQUIPMENT. REFER TO TERMINAL AIR BOX (TAB) SCHEDULES FOR TEMP SENSOR REQUIREMENTS FOR EACH TAB.
- EACH D.I., D.O., A.I. AND A.O. POINT SHOWN FOR ALL CONTROL DIAGRAMS SHALL BE DISCRETE FROM ALL OTHER POINTS EXCEPT AS SPECIFICALLY NOTED.
- ALL WIRING, CONTROL COMPONENTS, DEVICES AND PROGRAMMING SHOWN ON THESE CONTROL DRAWINGS SHALL BE PROVIDED BY THE TCC UNLESS SPECIFICALLY NOTED OTHERWISE.
- TEMPERATURE CONTROL CABLING, CONDUIT, BOXES, IDENTIFICATION: REFER TO THE SPECIFICATIONS FOR A COMPLETE LIST OF REQUIREMENTS.
- ALL ACTUATORS SHALL BE OF THE ELECTRICAL TYPE FOR THIS PROJECT UNLESS AN ACTUATOR IS SPECIFICALLY INDICATED ON THE DRAWINGS OR SPECIFICATIONS TO BE PNEUMATIC.
- MODULATING SIGNALS SHALL BE DISPLAYED AS % OPEN (SIGNALS DISPLAYED AS % CLOSED ARE NOT ACCEPTABLE).
- ALL CONTROL COMPONENTS SUCH AS RELAYS, SWITCHES, DDC CONTROLLERS, ETC. SHALL BE MOUNTED IN STEEL ENCLOSURES WITH STEEL MOUNTING BACKPLATES PER SPECIFICATION 23 09 00.
- EACH CONTROL PANEL SHALL HAVE A LAMINATED COPY OF THE APPLICABLE SEQUENCE OF OPERATION AND CONTROL DIAGRAM INDICATING THE POINTS, COMPONENTS AND OPERATION OF EQUIPMENT ASSOCIATED WITH EACH PANEL. REFER TO SECTION 23 09 00 FOR ADDITIONAL REQUIREMENTS.
- TCC SHALL WIRE THE CONTROL SIGNAL FROM THE ASSOCIATED AIR HANDLING UNIT CONTROL PANEL TO CONTROL THE OPERATION OF SMOKE DAMPERS IN ACCORDANCE WITH SEQUENCE OF OPERATION. TCC SHALL PROVIDE ALL WIRING, CONDUIT, TRANSFORMERS, FUSING AND ALL OTHER ELECTRICAL COMPONENTS REQUIRED FOR COMPLETE INSTALLATION.
- TCC SHALL EXTEND CONTROL SIGNAL FROM ADDRESSABLE RELAY DEVICE SERVING EACH AIR HANDLING UNIT. REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS. TCC SHALL EXTEND AND TERMINATE WIRING AS REQUIRED FOR EQUIPMENT SHUTDOWN.
- TCC SHALL PROVIDE LOW VOLTAGE WIRING FROM POWER SUPPLIES TO ALL CONTROLLERS, MONITORS, COMPONENTS AND DEVICES REQUIRING 24 VAC POWER. ADDITIONAL POWER SUPPLIES NOT SHOWN AND REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM SHALL BE PROVIDED BY THE TEMPERATURE CONTROL CONTRACTOR. THE TEMPERATURE CONTROL CONTRACTOR SHALL PROVIDE FINANCIAL PROVISIONS WITHIN THEIR BID FOR THE ELECTRICAL CONTRACTOR TO PROVIDE BRANCH POWER TO THE ADDITIONAL POWER SUPPLIES. COORDINATE THE LOCATION OF ADDITIONAL POWER SUPPLY CABINET WITH THE ELECTRICAL CONTRACTOR.
- TCC SHALL PROVIDE THERMOSTATS FOR AUTOMATIC CONTROL OF EQUIPMENT AS REQUIRED BY THESE CONTROL DRAWINGS. THERMOSTAT CONTACT AMP RATING SHALL BE MINIMUM 15% OF THE MAX. CURRENT DRAW FOR THE EQUIPMENT BEING SERVED. WHERE THERMOSTATS CONTROL THE STARTING OF MOTORS (I.E. FANS), THERMOSTATS SHALL BE RATED FOR MOTOR STARTING APPLICATIONS.
- CONTROL DIAGRAMS ARE SCHEMATIC IN NATURE AND DO NOT SHOW ALL REQUIRED CONTROL DEVICES AND COMPONENTS. REFER TO FLOOR PLANS, FLOW DIAGRAMS AND DETAILS FOR ADDITIONAL CONTROL DEVICES, COMPONENTS AND REQUIREMENTS NOT SHOWN ON THESE CONTROL DRAWINGS.
- TCC SHALL PROVIDE ALL CONTROL COMPONENTS AND ACCESSORIES AS REQUIRED FOR EQUIPMENT TO BE CONTROLLED AS DESCRIBED IN THE SEQUENCE OF OPERATION REGARDLESS OF WHETHER ALL CONTROL COMPONENTS OR POINTS ARE SHOWN IN THE ASSOCIATED CONTROL DIAGRAM.



Bruce E. Hart - #E-22817
07/13/2022

ACI
BOLAND
ARCHITECTS

1710 Wyandotte
Kansas City, MO 64108
T: 816.763.9600

ACI/Boland, Inc.
Kansas City | St. Louis
Licensee's Certificate of Authority Number:
Missouri: #000958

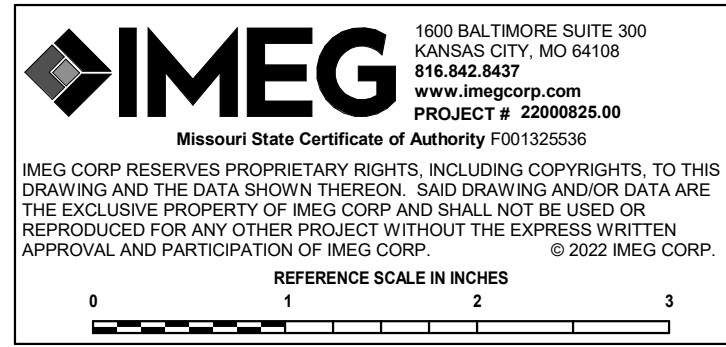
MEP CONSULTANT

IMEG Corp.
1600 Baltimore, Suite 300
Kansas City, Missouri 64108
T: 816.842.8437
Licensee's Certificate of Authority Number:
Missouri: F001325536

SLE - HYBRID OR
100 NE Saint Luke's Blvd
Lee's Summit, MO 64086

Date 05/31/2022
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Revision
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TEMPERATURE CONTROL

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SPLIT SYSTEM UNIT SCHEDULE

NOTES:
1.INDOOR UNIT IS CEILING CASSETTE TYPE AND OUTDOOR UNIT IS COOLING-ONLY TYPE CONDESING UNIT WITH INVERTER COMPRESSOR.
2.COOLING CAPACITY IS BASED ON INDOOR/ENTERING IAR CONDITIONS OF 75°F DB AND 45% RH AND OUTDOOR AMBIENT TEMPERATURE OF 105°F. SENSIBLE COOLING CAPACITY SHALL BE A MIN. OF 33.4 MBH.
3.UNIT SHALL BE CAPABLE OF CONTINUOUS OPERATION AT OUTDOOR AMBIENT TEMPERATURE AS LOW AS -20°F. PROVIDE WITH WIND BAFFLES AS REQUIRED.
4.FURNISH SYSTEM WITH FACTORY/MOUNTED CONTROLS, INCLUDING COMMUNICATIONS CARD TO ALLOW REMOTE ACCESS TO THE CONTROLS THROUGH A BACNET COMMUNICATIONS LINK. A DRAIN PAN/LEVEL SENSOR (TO SHUT OFF INDOOR UNIT TO PREVENT DRAIN PAN OVERFLOW), A WALL-MOUNTED (NOT HANDHELD) CONTROLLER, AND A COMMON ALARM CONTACT.
5.PROVIDE SYSTEM WITH REFRIGERANT PIPING AND SPEC AS RECOMMENDED BY MANUFACTURER. M.C. SHALL CONFIRM PIPING LENGTH IN THE FIELD, AND SHALL CHARGE SYSTEM WITH REFRIGERANT R-410A AS REQUIRED.

TAG NAME	AREA SERVED	INDOOR UNIT										OUTDOOR UNIT										ELECTRICAL				MANUFACTURER	NOTES	
		CFM	MCA	VOLTAGE	PHASE	COOLING MBH	HEATING MBH	MAX. DIMENSIONS			WEIGHT	MODEL	SEER	MCA	MOCp	VOLTAGE	PHASES	OUTSIDE UNIT MAX. DIMENSIONS			WEIGHT	MODEL	DISCONNECT		CONTROLLER/ STARTER			
								LENGTH	WIDTH	HEIGHT								HEIGHT	LENGTH	WIDTH			BY (NOTE A)	TYPE (NOTE B)	BY (NOTE A)			SCCR
CAC-1A027		1200	2.0	208	1	33.9	0	38"	38"	12"	70	TPLAA0421EA70B	21	25	31	208	1	4'-5"	3'-6"	1'-3"	215	TRUYAO 421KA70NA	E.C.	NF	MFR	5000	MITSUBISHI TRANE	SEE NOTES ABOVE.

TERMINAL AIR BOX SCHEDULE - SINGLE DUCT NEW

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

TAG NAME	CFM			HEATING COIL (NOTES 5, 6)				MIN. INLET SIZE (IN.) DIA.	CONTROL TYPE (NOTE 3)	SENSOR TYPE (NOTE 4)	MANUFACTURER	MODEL (NOTES 1, 2)	NOTES
	COOLING MAX.	HEATING MAX.	MIN.	EAT °F	LAT °F	EWT °F	MAX. GPM						
A7-1A056	280	0	0	42.0	85.0	180	0.0	6"			TITUS	DESV	NOTES 1, 2
A-4-1A081	250	0	0	55.0	85.0			8"			TITUS	DESV	NOTES 1, 2

EXISTING TERMINAL AIR BOX BALANCING SCHEDULE

TAG NAME	INLET SIZE (IN.) DIA.	COOLING MAX. CFM	COOLING MIN. CFM	HEATING MAXIMUM CFM	REHEAT COIL GPM
A-4-1A048-E	8"	600	600	600	1.3
A-4-1A048-E	8"	1500	1500	1500	3.5
A-4-1A090-E	16"	1640	1640	1,640	
A-4-1A210-E	8"	170	170	170	
A-10-06-E	12"	500	500	500	1.6
A-10-14-E	8"	360	360	360	1.2

SUPPLY/RETURN/EXHAUST AIR VALVE SCHEDULE

NOTES:
1. NEITHER RADIATED NOR DISCHARGE SOUND LEVELS SHALL EXCEED NC 35 AT 1.5" INLET STATIC PRESSURE WHEN TESTED PER AHRI STANDARD 885-2008 USING 5/8" 20-LB DENSITY MINERAL FIBER CEILING TILE.
2. REFER TO SPECIFICATION SECTION [239500], VENTURI VALVE AIRFLOW CONTROL SYSTEM.
3. PROVIDE ROOM INTEGRATOR TO CONNECT DIRECTLY TO FMCS VIA NETWORK.
4. FAST ACTING VALVE. REFER TO CONTROL DRAWINGS FOR DESCRIPTION OF CONTROL TYPE.
5. SENSOR TYPES: 1 - SENSOR ONLY 2 - SENSOR WITH ADJUSTMENT, 3 - SENSOR WITH OVERRIDE, 4 - SENSOR WITH ADJUSTMENT AND OVERRIDE.

TAG NAME	AREA SERVED	COOLING MAX.	MIN.	HEATING MAX.	PRESSURE DROP	AV SIZE, CONFIGURATION		CONTROL TYPE (NOTE 4)	SENSOR TYPE (NOTE 5)	MANUFACTURER	MODEL	NOTES
						MIN. INLET SIZE (IN.) DIA.	CONFIGURATION					
RAV-1A051		0	2350	0	0.13	16"	HORIZONTAL	VARIABLE VOLUME WITH ELECTRIC ACTUATOR AND FLOW FEEDBACK		CRC	CRC-CLV-16	
SAV-1A051		2600	2600	2600	0.13	16"	HORIZONTAL	VARIABLE VOLUME WITH ELECTRIC ACTUATOR AND FLOW FEEDBACK		CRC	CRC-CLV-16	

COIL SCHEDULE - WATER

NOTES:


1.

TAG NAME	AREA SERVED	CFM	EAT		LAT		TOTAL MBH	A.P.D. IN. W.C.	EWT °F	LWT °F	GPM	W.P.D. FT. HEAD	MAX. DIMENSIONS			WEIGHT		MANUFACTURER	MODEL	NOTES
			DB °F	WB °F	DB °F	WB °F							LENGTH	WIDTH	HEIGHT	DRY	OPERATING			
RHC-1A051		2600	42.0	0.0	85.0	0.0	120	0.40	190	160	8.0	5.0	24		18	0	0			

AIR TERMINAL SCHEDULE

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

TAG NAME	FACE SIZE (IN.) (NOTE 2)	TYPE	BORDER (NOTE 1)	MATERIAL	FINISH	VOLUME DAMPER REQUIRED	MANUFACTURER	MODEL	NOTES
EG-1	INLET +2	35 DEGREE DEFLECTION	1 1/4"	STEEL	WHITE	NO	TITUS	350R	
RG-1	24x12	PERFORATED FACE	LAY-IN	STEEL	WHITE	NO	TITUS	350R	DUCTED RETURN
RG-3	20x32	PERFORATED FACE	LAY-IN	STEEL	WHITE	NO	TITUS	350R	FACE ONLY - NON DUCTED
RG-4	24x12	PERFORATED FACE	LAY-IN	STEEL	WHITE	NO	TITUS	350R	DUCTED RETURN
SD-1	24x24	PANEL FACE	LAY-IN	STEEL	WHITE	NO	TITUS	OMNI	



1900 BALTIMORE SUITE 300
KANSAS CITY, MO 64108
816.842.8437
www.imegcorp.com
PROJECT # 22000825.00

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Bruce E. Hart - #E-22817
07/13/2022

ACI
BOLAND
ARCHITECTS

1710 Wyandotte
Kansas City, MO 64108
T: 816.763.9600

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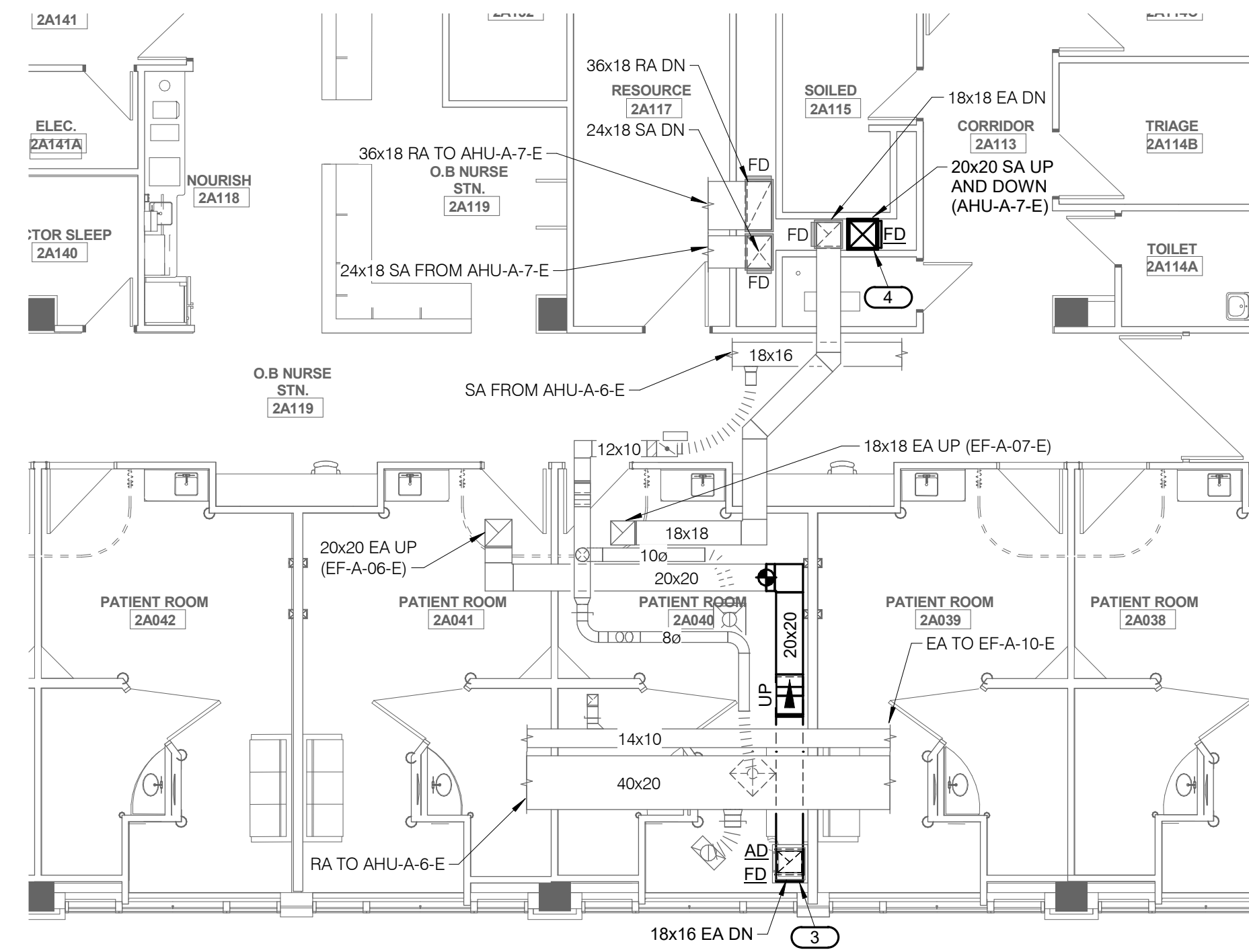
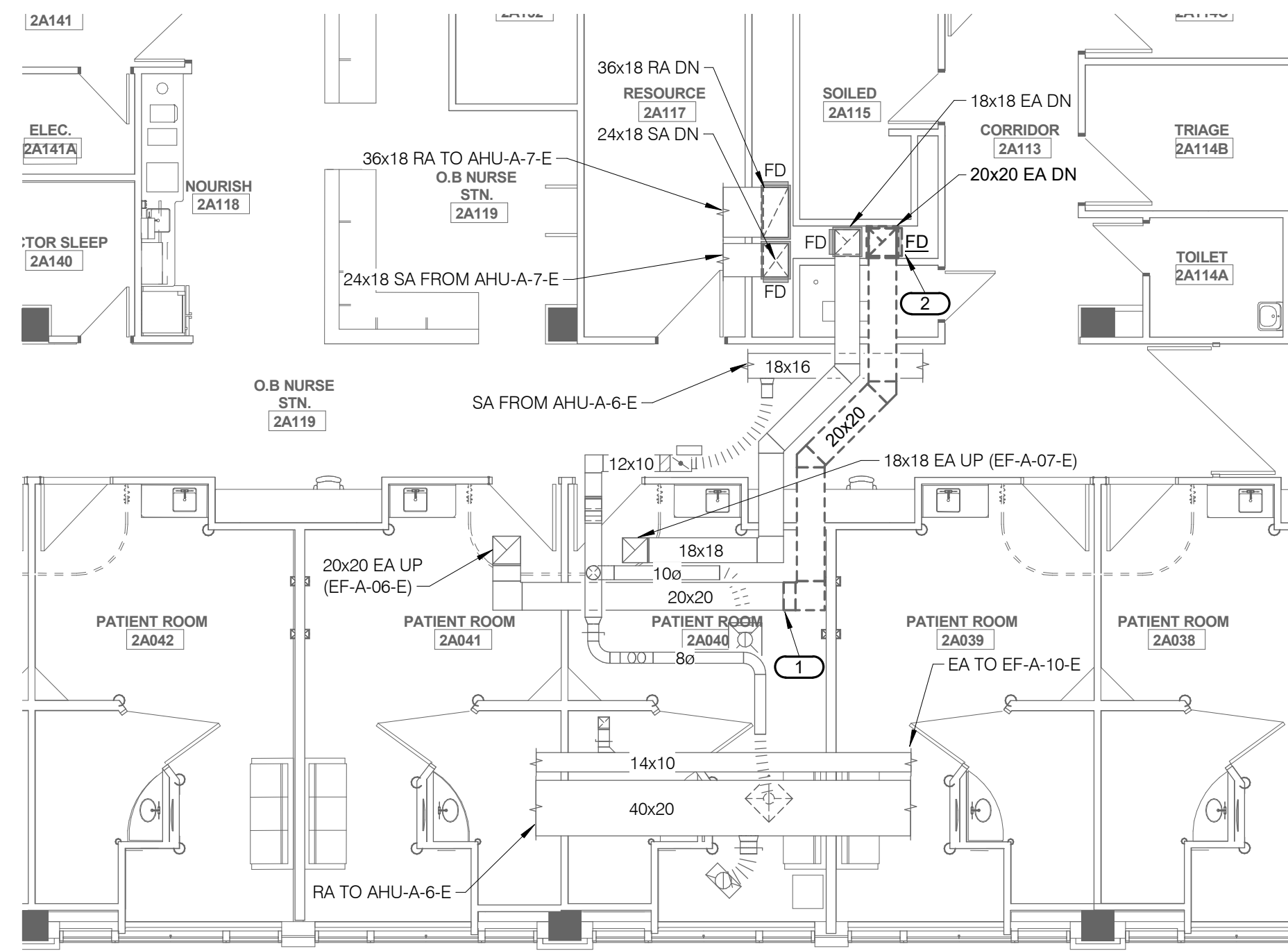
Revision

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207/13/22ADDENDUM 2

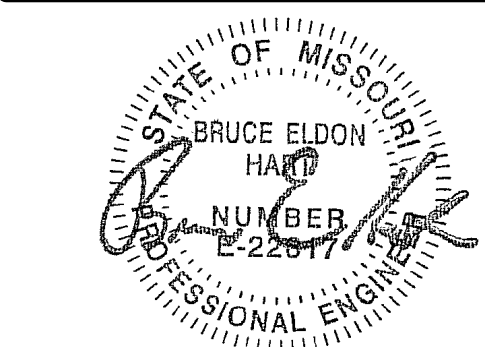
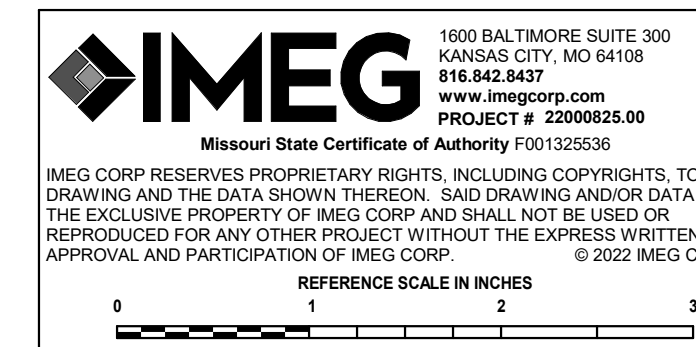
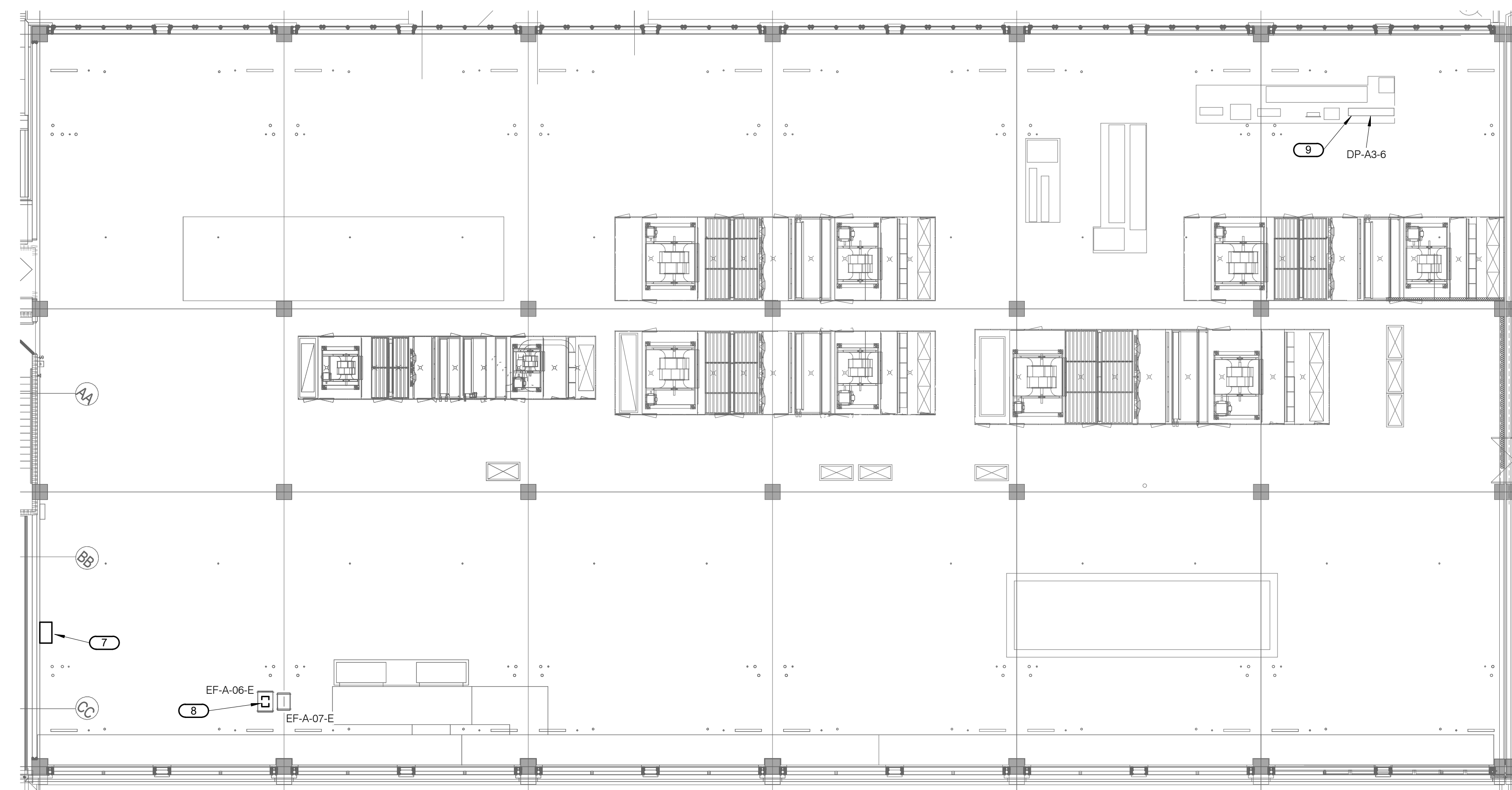
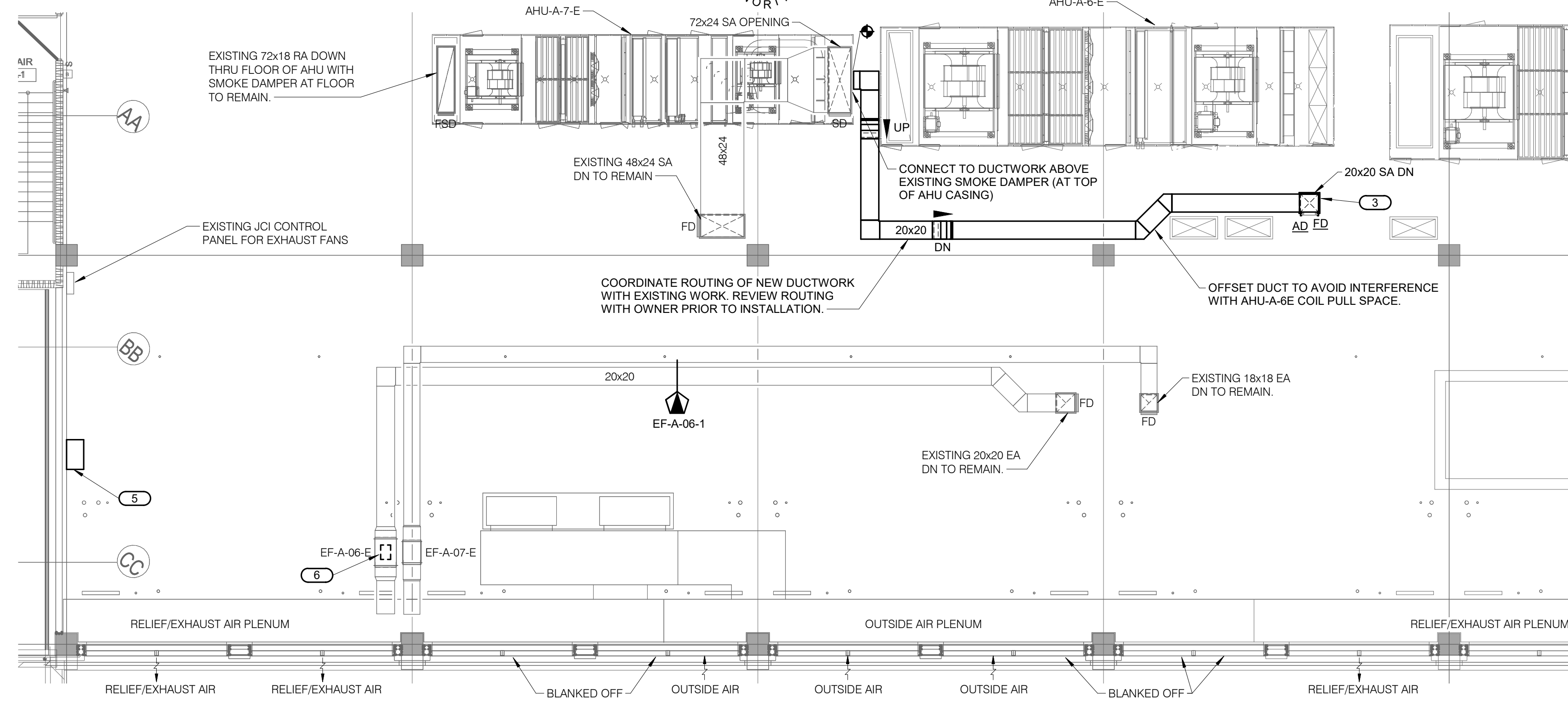
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MECHANICAL SCHEDULES



- KEYNOTES:**
- CUT 20x20 EA AND REMOVE UPSTREAM DUCTWORK BACK DOWN TO FIRST FLOOR. IF REMOVAL OF DUCTWORK ABOVE CORRIDOR WOULD REQUIRE A SHUTDOWN OF CORRIDOR, COORDINATE WITH OWNER. OWNER MAY ALLOW THAT DUCT WORK TO BE CAPPED ON BOTH SIDES OF CORRIDOR AND ABANDONED IN PLACE.
 - CUT WALL OF JANITOR CLOSET AS REQUIRED TO REMOVE DUCT RISER.
 - COORDINATE EXACT LOCATION OF NEW DUCT RISER WITH ARCHITECT AND STRUCTURAL ENGINEER. SAWCUT SLAB AS DIRECTED BY STRUCTURAL ENGINEER. INSTALL DUCT ACCESS DOOR ABOVE SLAB AND COORDINATE WITH GENERAL CONTRACTOR TO INSTALL AN ARCHITECTURAL ACCESS DOOR IN FRONT OF THE DUCT ACCESS DOOR, IF REQUIRED FOR ACCESS.
 - INSTALL NEW SA DUCT RISER DOWN THRU SECOND FLOOR SLAB IN SAME LOCATION WHERE THE OLD EA RISER WAS REMOVED. INSTALL DUCT ACCESS DOOR IN ACCESSIBLE LOCATION BELOW SLAB. PATCH WALL OF JANITOR CLOSET AS REQUIRED.
 - DISCONNECT AND REMOVE MOTOR CONTROLS (COMBINATION STARTER/DISCONNECT SWITCH) FOR EF-A-06-E. PROVIDE AND INSTALL NEW VARIABLE FREQUENCY DRIVE IN SAME LOCATION.
 - DISCONNECT AND REMOVE 1 HP MOTOR FROM EXISTING FAN. PROVIDE AND INSTALL NEW 2 HP, 460-VOLT, 3Ø MOTOR ON FAN. RE-BALANCE FAN TO SAME AIRFLOW RATE THAT WAS MEASURED PRIOR TO DEMOLITION.
 - DISCONNECT EXISTING 480V, 3Ø, #12 W CIRCUIT FROM LINE AND LOAD SIDE OF EXISTING EF-A-06-E MOTOR STARATER/DISCONNECT TO ALLOW FOR ITS REMOVAL AND RE-CONNECT SAME CIRCUIT TO LINE AND LOAD SIDE OF NEW VEV.
 - DISCONNECT EXISTING 480V, 3Ø, #12 W CIRCUIT FROM EXISTING EXHAUST FAN MOTOR TO ALLOW FOR MOTOR REMOVAL AND RECONNECT SAME XIRCUIT TO NEW EXHAUST FAN MOTOR.
 - REPLACE EXISTING FUSES IN DISCONNECT SWITCH SERVING EXHAUST FAN REF-A-06-E WITH 6.25A FUSES. NEW FUSES SHALL MATCH TYPE OF EXISTING FUSES.



Bruce E. Hart - BE-22817
07/13/2022

ACI BOLD AND ARCHITECTS

1710 Wyandotte
Kansas City, MO 64108
T: 816.763.9600

ACI/Boland, Inc.
Kansas City | St. Louis
Licensee's Certificate of Authority Number:
Missouri: #000958

MEP CONSULTANT

1600 Baltimore, Suite 300
Kansas City, Missouri 64108
T: 816.842.8437
Licensee's Certificate of Authority Number:
Missouri: F001325536

**SLE - HYBRID OR
100 NE Saint Luke's Blvd
Lee's Summit, MO 64086**

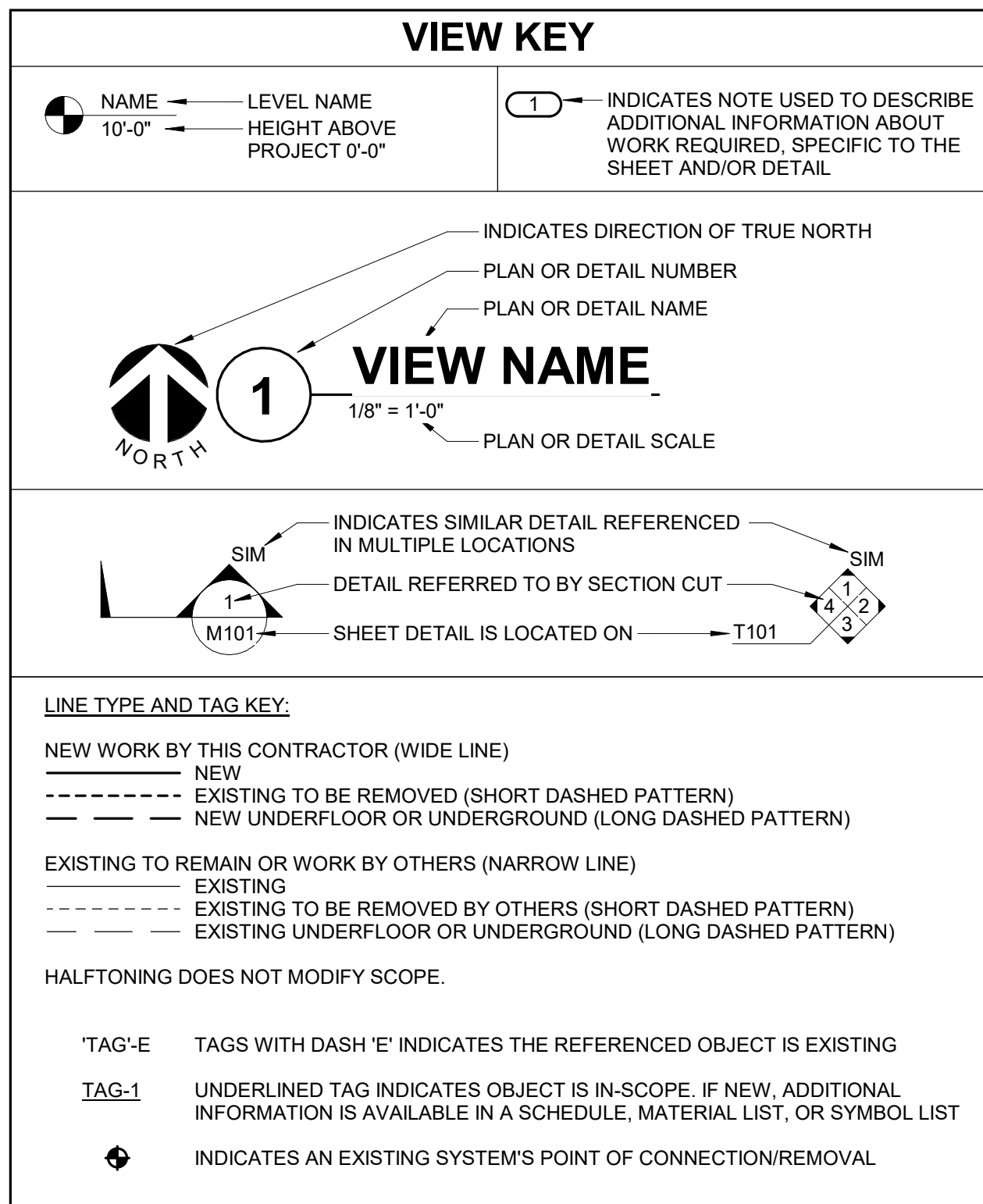
Date 05/31/2022
Job Number 3-20034
Drawn By MJL/PLR
Checked By MJO

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Number Date Description
2 07/13/22 ADDENDUM 2





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SECOND/THIRD FLOOR -
VENTILATION/POWER

























































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









ELECTRICAL SYMBOL LIST	
SYMBOL:	DESCRIPTION:
S	SWITCH - SINGLE POLE
S ₃	SWITCH - THREE WAY
D	DIMMER - LED
D ₀	WATTSTOPPER DIGITAL TECHNOLOGY DIMMING LINE VOLTAGE WALL OCCUPANCY SENSOR: DSW-311
 R	WATTSTOPPER DIGITAL LIGHTING MANAGEMENT ROOM CONTROLLER. # - REFERS TO NUMBER OF RELAYS AND D REFERS TO 0-10V DIMMING CONTROLLER
 D	WATTSTOPPER DUAL TECHNOLOGY CEILING OCCUPANCY SENSOR: LMDC-100
S ₀₂	WATTSTOPPER DUAL TECHNOLOGY LINE VOLTAGE WALL OCCUPANCY SENSOR: DSW-301
 PB	WATTSTOPPER DIGITAL LIGHTING MANAGEMENT CONTROL STATION KEYPAD WITH PROGRAMMABLE FUNCTION BUTTONS. # INDICATES NUMBER OF SWITCHES.
ZZ	ZZ INDICATES TYPE: SX: BUTTON PAD - X NUMBER OF BUTTONS D1: ONE BUTTON DIMMING ROCKER SWITCH
 ALCH	AUTOMATIC LOAD CONTROL RELAY - WATTSTOPPER EMERGENCY LIGHTING CONTROL UNIT. UPON LOSS OF NORMAL POWER, EMERGENCY LIGHTING SHALL BE BROUGHT TO FULL BRIGHNESS REGARDLESS OF SWITCH POSITION. PROVIDE ALL LOW VOLTAGE CABLING AS REQUIRED. ELCU-200







ELECTRICAL SYMBOL LIST	
SYMBOL:	DESCRIPTION:
	LINEAR LUMINAIRES
	TROFFER
	DOWNLIGHT LUMINAIRE
	SINGLE FACE EXIT SIGN
	DOUBLE FACE EXIT SIGN
	WALL/CEILING EMERGENCY EXIT SIGN
	EMERGENCY UNIT








LUMINAIRE SYMBOL KEY	
SYMBOL:	DESCRIPTION:
 ○	NORMAL BRANCH LUMINAIRE
 ○	CRITICAL BRANCH LUMINAIRE

ELECTRICAL SYMBOL LIST	
SYMBOL:	DESCRIPTION:
	JUNCTION BOX
	INFORMATION OUTLET, WALL
	INFORMATION OUTLET, CEILING
	TECHNOLOGY ROUGH-IN, WALL PHONE
	WIRELESS ACCESS POINT WITH ENCLOSURE, CEILING
	SPEAKER, CEILING
	TV ANTENNA OUTLET
	ELECTRICAL WIREWAY WITH DEVICES SHOWN
	MOMENTARY PUSHBUTTON OPERATOR
	PANELBOARD - RECESS MOUNT
	PANELBOARD - SURFACE MOUNT
	ISOLATED POWER PANEL
	OPERATING ROOM POWER MODULE
	CIRCUIT BREAKER - SURFACE MOUNTED.
	CIRCUIT BREAKER - FLUSH MOUNTED.
	DISCONNECT SWITCH

ELECTRICAL SYMBOL LIST	
SYMBOL:	DESCRIPTION:
	DUPLEX RECEPTACLE, 125V
	DUPLEX GFI RECEPTACLE, 125V
	ISOLATED GROUND RECEPTACLE, 125V
	ISOLATED GROUND RECEPTACLE WITH SURGE SUPPRESSION, 125V
	ISOLATED GROUND QUAD RECEPTACLE WITH SURGE SUPPRESSION, 125V
	SIMPLEX RECEPTACLE, 125V
	RECEPTACLE, 125V
	RECEPTACLE 125V, 50A, 150V
	RECEPTACLE, 6-20R, 250V
	RECEPTACLE, 6-30R, 250V
	RECEPTACLE, 6-50R, 250V
	RECEPTACLE, 7-20R, 277V
	RECEPTACLE, 7-30R, 277V
	RECEPTACLE, 7-50R, 277V
	RECEPTACLE, 14-20R, 125/250V
	RECEPTACLE, 14-30R, 125/250V
	RECEPTACLE, 14-50R, 125/250V
	RECEPTACLE, 14-60R, 125/250V
	RECEPTACLE, 15-20R, 250V, 3PH
	RECEPTACLE, 15-30R, 250V, 3PH
	RECEPTACLE, 15-50R, 250V, 3PH
	RECEPTACLE, 15-60R, 250V, 3PH
	RECEPTACLE, LOCKING TYPE, L5-20R, 125V
	RECEPTACLE, LOCKING TYPE, L5-30R, 125V
	RECEPTACLE, LOCKING L6-20R, 250V
	RECEPTACLE, LOCKING L6-30R, 250V
	RECEPTACLE, LOCKING L7-20R, 277V
	RECEPTACLE, LOCKING L7-30R, 277V
	RECEPTACLE, LOCKING L14-20R, 125/250V
	RECEPTACLE, LOCKING L14-30R, 125/250V
	RECEPTACLE, LOCKING L15-20R, 250V, 3PH
	RECEPTACLE, LOCKING L15-30R, 250V, 3PH
	RECEPTACLE, L16-20R, 480V, 3PH
	RECEPTACLE, L16-30R, 480V, 3PH
	RECEPTACLE, LOCKING L21-20R, 120/208V, 3PH
	RECEPTACLE, LOCKING L21-30R, 120/208V, 3PH
	QUAD RECEPTACLE, 125V
	QUAD GFI RECEPTACLE, 125V

ELECTRICAL SYMBOL LIST	
SYMBOL:	DESCRIPTION:
	FIRE ALARM SMOKE DETECTOR, CEILING OR WALL MOUNT
	BLANK - PHOTOELECTRIC AT = ATTIC (LOCATED IN) BR = BEAM RECEIVER BT = BEAM TRANSMITTER CO = COMBINATION SMOKE / CARBON MONOXIDE COH = COMBINATION SMOKE / CARBON MONOXIDE / HEAT COS = COMBINATION SMOKE / CARBON MONOXIDE / STROBE H = COMBINATION SMOKE / HEAT DETECTOR ION = IONIZATION TYPE ID = IN DUCT DETECTOR SA = STAND ALONE WITH SOUNDER SB = SOUNDER BASE SV = STAND ALONE WITH SOUNDER AND 177 CANDELA STROBE
	FIRE ALARM VISUAL ALARM DEVICE, CEILING OR WALL MOUNT
	# = CANDELA RATING CD = CANDELA RATING SELECTED BY NICET DESIGNER
	AUDIO HORN/CHIME ALARM SYSTEM, CEILING OR WALL MOUNTED
	M = MINI-HORN S = SLEEPING / PATIENT ROOM
	COMBINATION AUDIO HORN/CHIME AND VISUAL ALARM DEVICE, CEILING OR WALL MOUNTED
	# = CANDELA RATING CD = CANDELA RATING SELECTED BY NICET DESIGNER

SECURITY SYMBOLS LIST	
SYMBOL:	DESCRIPTION:
	SECURITY CREDENTIAL READER (EXISTING), WALL
	SECURITY CREDENTIAL READER TYPE 1, WALL
	INTRUSION DETECTION MOTION DETECTOR, CEILING
	INTRUSION DETECTION MOTION DETECTOR, WALL
	INTRUSION DETECTION MOTION AUDIBLE ALARM, WALL
	INTRUSION DETECTION DOOR CONTACT SWITCH, WALL

NURSE CALL SYMBOL LIST	
SYMBOL:	DESCRIPTION:
	NURSE CALL DUTY STATION, WALL
	NURSE CALL BED INTERFACE, WALL
	NURSE CALL SINGLE PATIENT BED STATION, WALL
	NURSE CALL CODE BLUE STATION, WALL
	NURSE CALL STAFF ASSIST STATION, WALL
	NURSE CALL DOME LIGHT, CEILING
	NURSE CALL ZONE DOME LIGHT, CEILING

ELECTRICAL LIGHTING DEMOLITION NOTES:

1. THE ELECTRICAL LIGHTING DRAWINGS INDICATE EXISTING ELECTRICAL ITEMS TO BE REMOVED. THE DRAWINGS ARE INTENDED TO INDICATE THE SCOPE OF WORK REQUIRED TO REMOVE EXISTING ELECTRICAL ITEMS. THE BIDDER SHALL VERIFY THE EXISTING CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING A BID AND VERIFY EXISTING CONDITIONS.
2. THE REMOVAL IN CERTAIN LOCATIONS MAY REQUIRE THE INSTALLATION OF A JUNCTION BOX TO RECONNECT CIRCUITS THAT REMAIN IN OPERATION. EXTEND CONDUIT AND WIRING AS REQUIRED TO MAINTAIN POWER TO REMAINING EQUIPMENT.
3. THE MANUFACTURE, INSTALLATION, AND MAINTENANCE OF ALL ELECTRICAL PROPOSED BY A FEDERAL OR STATE E.P.A. APPROVED METHOD AND IN ACCORDANCE WITH SPECIFICATIONS.
4. ALL EXISTING LAMP CANS CONTAIN MERCURY AND SHALL BE DISPOSED OF BY A FEDERAL OR STATE E.P.A. APPROVED METHOD.
5. REUSE EXISTING CONDUIT, CIRCUITS AND LIGHTING CONTROL WHERE POSSIBLE. PROVIDE NEW LAMP CANS AND WIRING AS REQUIRED OR REQUIRED TO INSTALL THE NEW LIGHT FIXTURES.
6. VERIFY MANUFACTURERS INSTALLATION GUIDELINES WITH EXISTING FIELD CONDITIONS PRIOR TO ORDERING NEW LIGHT FIXTURES AND INSTALLATION MATERIAL.
7. MATCH EXISTING PAINTED SURFACES, WHERE REPLACED LUMINAIRE DOES NOT FULLY COVER EXISTING JUNCTION BOX OR PAINTED SURFACE. PROVIDE CUSTOM BACK PLATE TO COVER SURFACE TO COORDINATE WITH SURFACES THAT WOULD ALLOW AN INTRUSION OF WATER AND CAULK WHERE NECESSARY.
8. VERIFY EXISTING LIGHTING SYSTEMS AND WIRING AS NECESSARY TO MEET EXISTING CONDITIONS. VERIFY WITH OWNER ANY CHANGES.

ELECTRICAL RENOVATION NOTES:

THESE NOTES APPLY TO ALL ELECTRICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, LIGHTING, POWER, AND SYSTEMS.

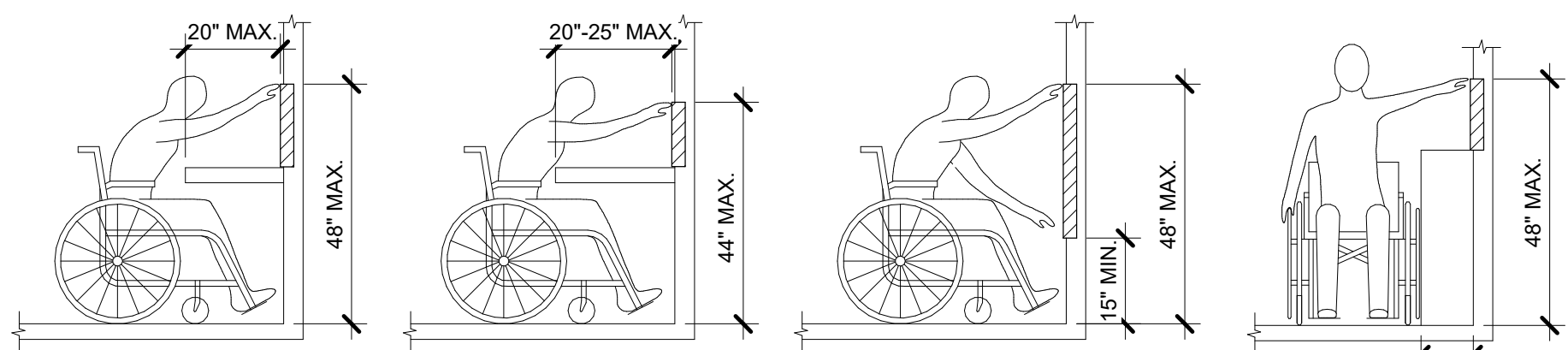
1. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND CONFLICTS WITH NEW WORK PRIOR TO STARTING WORK.
2. NOT ALL EXISTING EQUIPMENT, LUMINAIRE, AND CONDUIT ARE SHOWN. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS WITH NEW WORK BEFORE STARTING WORK.
3. FIELD VERIFY THE AVAILABLE CLEARANCES FOR CONDUITS BEFORE FABRICATION RISES.
4. EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF THEIR WORK AND SHALL NOTIFY THE GENERAL CONTRACTOR PRIOR TO BIDDING IF OTHER UTILITIES ARE LOCATED IN THE WORK AREA. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CUTTING, REMOVAL AND PATCHING OF WALLS AND FLOORS ASSOCIATED WITH WORK BY ALL CONTRACTORS. CONTRACTORS SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES.
5. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILINGS, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE GENERAL CONTRACTOR OF AFFECTED AREAS PRIOR TO BIDDING.
6. WHERE EXISTING ELECTRICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER REMOVE OR RELOCATE THE EXISTING SYSTEMS OR REWORK EXISTING ELECTRICAL SYSTEMS TO NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING ELECTRICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.
7. COORDINATE ALL LUMINAIRE LOCATIONS WITH STRUCTURAL TRUSS AND BEAMS PRIOR TO BIDDING.
8. FULLY SHADED FIXTURES INDICATE EMERGENCY LUMINAIRES.
9. WHERE LUMINAIRE QUANTITIES OR LAYOUT DIFFER BETWEEN ELECTRICAL LIGHTING PLANS AND 160 REFLECTOR REFLECTOR LIGHTING PLANS, THE ELECTRICAL LIGHTING PLANS TAKE PRECEDENCE. CONTRACTOR SHALL CONFORM QUANTITY AND LAYOUT WITH DESIGN TEAM. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LUMINAIRE QUANTITIES AND LAYOUT.

TYPICAL REMODEL:

1. ALL LUMINAIRES SHOWN TO BE DEMOLISHED SHALL BE DISPOSED OF IF NOT REQUIRED BY OWNER FOR ATTIC STOCK. CONFIRM WITH OWNER PRIOR TO DISPOSAL. IF THE REPAIRS OR DEMOLITION OF LUMINAIRE IS BEING DONE, THE FOLLOWING SHALL BE DONE:
2. REMOVE EXISTING LUMINAIRE AND WALL SWITCHES WHERE SHOWN. LOCATE AND IDENTIFY ELECTRICAL CIRCUIT SERVING REMOVED LUMINAIRE FOR REUSE WITH NEW DEVICE.
3. COORDINATE HOURS OF ACCESS WITH OWNER.
4. IF NEW LUMINAIRE IS TO BE INSTALLED, THE INSTALLATION OF NEW LUMINAIRE IN SAME LOCATION OR NEW LOCATION. REFER TO #201 FOR NEW WORK.
5. MATCH EXISTING FACEPLATE FINISH AND TYPE FOR ALL LOCATIONS WHERE NEW WALL CONTROL DEVICE IS BEING INSTALLED.
6. WHERE WALL SWITCH DEVICE IS REMOVED AND NOT REPLACED. PROVIDE WITH BLANK COVER.
7. EXPOSED 3/4" CONDUIT TO NEW OR EXISTING FIXTURES OR DEVICES IS ACCEPTABLE AS LONG AS IT IS INSTALLED IN A NEAT AND ORDERLY METHOD AND MEETS ADOPTED CODES.
8. REUSE EXISTING CONDUIT WHERE AVAILABLE.
9. REUSE EXISTING CONDUIT. WIRE, CONTROL AND JUNCTION BOXES. PROVIDE NEW IF NOT AVAILABLE.
10. PROVIDE (1) UNWISHTCHED LEG FROM PANEL SERVING THE EMERGENCY FIXTURES TO THE SENSOR LEG SERVING THE NEW BATTERY BACK UP IN NEW LUMINAIRE.
11. REUSE EXISTING LUMINAIRE IF AVAILABLE. IF NOT AVAILABLE TO REUSE EXISTING LUMINAIRE USE THE SAME SIZE WIRE AND CONDUIT. EXTEND CONDUIT AND CONDUCTORS AS REQUIRED TO MAKE CONNECTION. CONDUIT IN GOOD CONDITION SHALL BE REUSED IN PLACE.
12. NEW OCCUPANCY SENSORS TO BE INSTALLED IN A MANUAL ON/AUTO OFF CONFIGURATION.
13. REPLACE CEILING TILES WITH LIKE IN AREAS WITH A REDUCTION IN LUMINAIRE. REUSE EXISTING CEILING TILES WHERE APPLICABLE. PROVIDE NEW TO MATCH EXISTING IF NOT AVAILABLE AND TO MATCH NEW LUMINAIRE. PROVIDE NEW TO CORRESPOND WITH REVISED LUMINAIRE LAYOUT IN AREAS WITH A LAYIN CEILING.
14. PROVIDE COORDINATION OF ALL LUMINAIRE WITH EXISTING DUCT, PIPING, STRUCTURE AND CEILING MOUNTED DEVICES.

NURSE CALL SYMBOL LIST

SYMBOL:	DESCRIPTION:
DTY	NURSE CALL DUTY STATION, WALL
NB	NURSE CALL BED INTERFACE, WALL
N	NURSE CALL SINGLE PATIENT BED STATION, WALL
NC	NURSE CALL CODE BLUE STATION, WALL
NA	NURSE CALL STAFF ASSIST STATION, WALL
D	NURSE CALL DOME LIGHT, CEILING
DZ	NURSE CALL ZONE DOME LIGHT, CEILING



INSTALL ABOVE COUNTER
DEVICE AT 44" ABOVE
FINISHED FLOOR.

ADA GUIDELINES - FRONT ACCESS

INSTALL DEVICE AT 18"
ABOVE FINISHED FLOOR


ADA GUIDELINES - SIDE ACCESS

ADA STANDARDS FOR ACCESSIBLE DESIGN

ELECTRICAL GENERAL NOTES:

1. **(L#m#)** INDICATES THE LIGHTING SEQUENCE OF OPERATION FOR THE SPACE. REFER TO THE LIGHTING SEQUENCE OF OPERATION MATRIX ON SHEET E400.
2. "L# INDICATES LUMINAIRE.
3. "S# INDICATES LUMINAIRE IS SWITCHED/CONTROLLED DURING NORMAL OPERATION AND OPERATES FROM EMERGENCY CIRCUIT UNDER LOSS OF POWER.
4. SHOWN LUMINAIRES OR DEVICE INDICATES LUMINAIRE OR DEVICE IS CONNECTED TO AN EMERGENCY CIRCUIT.
5. REFER TO SHEET E400 FOR LUMINAIRE SCHEDULE.
6. (B) PUSH BUTTON REFERS TO SCENE QUANTITY. CONTROL STATION SHALL BE CAPABLE OF CONTROLLING THE SCENE QUANTITY. CONTROL STATIONS AS INDICATED ON SHEETS AND THE LIGHTING SEQUENCE OF OPERATIONS (L#m#) COORDINATE QUANTITIES OF BUTTONS FOR CONTROL STATIONS WITH LIGHTING CONTROL MANUFACTURER. REFER TO SHEET E400 FOR MORE INFORMATION.
7. VACANCY/OCCUPANCY SENSOR LAYOUT: SENSORS ARE SHOWN ON THE PLANS FOR DESIGN INTENT AND MAY NOT REPRESENT EVERY DEVICE. PROVIDE MANUFACTURER SPECIFICATIONS FOR EACH DEVICE. PROVIDE THE LOCATION OF EACH DEVICE IN THE AREA OF EACH CONTROL DEVICE, SENSOR, AND CONTROLLER/INTERFACE AREAS REQUIRING MULTIPLE SENSOR DEVICES FOR APPROVED COVERAGE. SUBMIT SPECIFIC COVERAGE AREA DRAWINGS TO THE ARCHITECT FOR REVIEW AND APPROVAL DIRECTLY ON THE PROJECT DRAWINGS, EITHER IN PRINT OR APPROVED ELECTRONIC FORM.

LUMINAIRE KEY:

 LUMINAIRE

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

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

DEVICE KEY:

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

*IF LABEL IS ORIENTED HOF

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

ELECTRICAL MOUNTING SUBSCRIPT KEY:

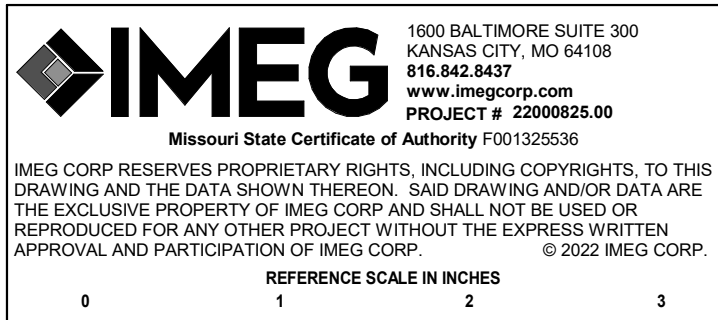
A	MOUNT AT +6" TO CENTERLINE ABOVE COUNTER OR BACKSPLASH
C	MOUNT AT CEILING
H	MOUNT ORIENTED HORIZONTALLY
L	MOUNT IN CASEWORK
M	MOUNT IN MODULAR FURNITURE
R	MOUNT IN SURFACE RACEWAY
EWC	ELECTRIC WATER COOLER

ELECTRICAL INSTALLATION NOTES:

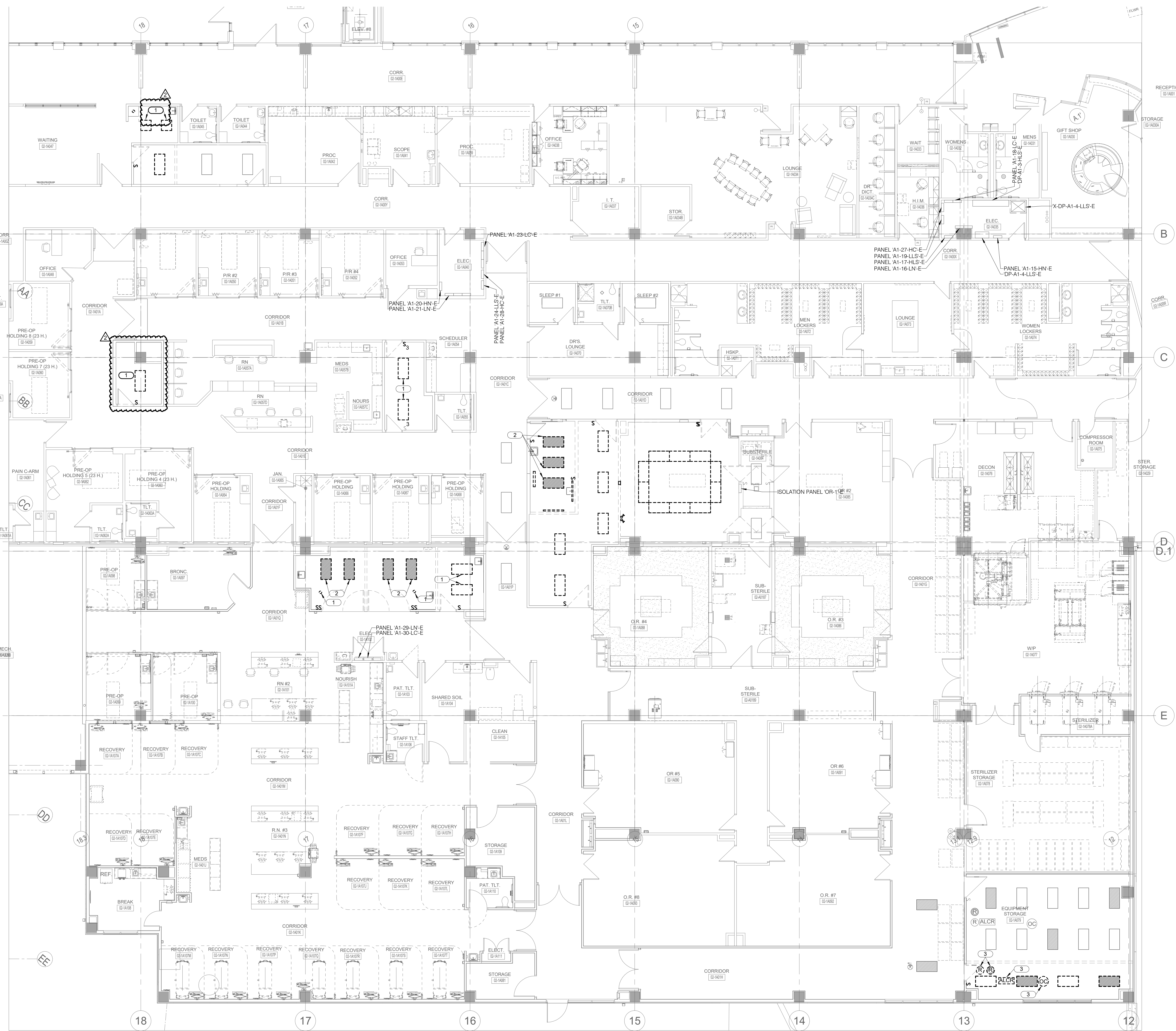
1. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN. REFER TO THE ADA GUIDELINES FOR ALL CONFIGURATION DETAILS OF THE INSTALLATION.
2. CIRCUIT NUMBERS ARE SHOWN FOR CIRCUIT IDENTIFICATION. CIRCUITING SHALL AGREE WITH NUMBERING ON THE PANEL PROVIDED. COMMON NEUTRALS MAY NOT BE USED FOR SEPARATE CIRCUITS. WIRING OF THE LOAD MAY JUNE OR BOXES AS POSSIBLE TO AVOID EACH PHASE.
3. LIFE SAFETY, CRITICAL, EQUIPMENT, EXHAUST, WIRING FOR FEEDERS AND BRANCH CIRCUITS SHALL BE IDENTIFIED BY COLOR. WIRING FOR EACH BRANCH SHALL BE INDEPENDENT FROM OTHER BRANCHES, INCLUDING THE NORMAL BRANCH.
4. ALL ELECTRICAL, LIGHTING CONTROL DEVICES AT +42" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. DEVICES MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED.
5. ALL ELECTRICAL, LIGHTING CONTROL DEVICES AND TECHNOLOGY OUTLETS AT +18" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. RECEPTACLES AND OUTLETS SHALL BE IDENTIFIED BY COLOR. EXCEPT WHERE OTHERWISE NOTED, RECEPTACLES AND OUTLETS SHALL BE EXTENDED LOCATED RECEPTABLES WITH WHILE-IN-USE COVERS AT +20" FROM FINISHED GRADE (CENTER DIMENSION) TO MAINTAIN INSTALLATION ADA COMPLIANCE.
6. ALL ELECTRICAL, LIGHTING CONTROL DEVICES SHALL BE IDENTIFIED BY COLOR. DOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIREPROOF.
7. ALL ELECTRICAL, LIGHTING CONTROL DEVICES (EVC) SHALL BE A JUNCTION BOX CONCEALED BEHIND WATER CLOUSE ACCESS PLATE OR BE A GFI RECEPTACLE LOCATED DIRECTLY BELOW AND CENTERED ON EWC. CONTRACTOR SHALL VERIFY TYPE OF EWC TO BE USED.
8. MOUNT ALL FIRE ALARM PULL STATIONS AT +42" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED.
9. MOUNT ALL SMOKE DETECTOR AND FLAME NOTIFICATION DEVICES AT 90" ABOVE FINISHED FLOOR OR 6" BELOW THE CEILING, WHICHEVER IS LOWER, EXCEPT WHERE OTHERWISE NOTED. HEIGHT SHALL BE MEASURED TO THE TOP OF THE DEVICE.
10. ALL ELECTRICAL, LIGHTING CONTROL DEVICES, AND MOUNTED DEVICES AND EQUIPMENT WITH LUMINAIRES, SPRINKLER, AND CEILING DIFFUSERS, EXCEPT ALL DEVICES IN CEILING TILE PATTERN, SMOKE DETECTORS, AND OCCUPANCY/VACANCY SENSORS SHALL BE IDENTIFIED BY COLOR.
11. CONTRACTOR SHALL VERIFY ALL FUTURE, MODULAR FURNITURE, AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS, AND REVIEWED SHOP DRAWINGS. LOCATIONS OF THE EQUIPMENT SHALL BE IDENTIFIED BY COLOR. CONTRACTOR SHALL ADJUST RECEPTABLES, OUTLETS, OR CONNECTION LOCATIONS TO ACCOMMODATE EQUIPMENT.
12. ELECTRICAL AND TECHNOLOGY EQUIPMENT SHALL BE MOUNTED TO AVOID IMPEDANCE OF OPERATION OF, AND/OR ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL ELECTRICAL AND TECHNOLOGY EQUIPMENT SHALL BE IDENTIFIED BY COLOR. EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR, SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR. THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUDED OR GROUNDING CONDUCTOR.
14. ALL WELDING SHALL BE ACCORDING TO AMERICAN WELDING SOCIETY STANDARDS. CONTRACTOR SHALL FURNISH TO THE ARCHITECT/ENGINEER CERTIFICATES QUALIFYING PERSONNEL PRIOR TO THE START OF WELDING. CONTRACTOR SHALL BE RESPONSIBLE FOR RIGHT TO REQUIRE QUALIFYING DEMONSTRATION, AT THE CONTRACTOR'S EXPENSE, OF ALL WELDERS ASSIGNED TO THE JOB.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY THEIR ACTIONS TO THE WALLS, FLOORS, AND CEILINGS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
16. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, AND OTHER ELECTRICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.

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

ELECTRICAL SHEET INDEX	
E000	ELECTRICAL COVERSHEET
E101	FIRST FLOOR DEMOLITION - LIGHTING
E111	FIRST FLOOR DEMOLITION - POWER
E121	FIRST FLOOR DEMOLITION - SYSTEMS
E201	FIRST FLOOR - LIGHTING
E211	FIRST FLOOR - POWER
E221	FIRST FLOOR - SYSTEMS
E400	LIGHTING DETAILS & SCHEDULES
GRAND TOTAL: 8	



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- SHEET NOTES:**
1. REFER TO SHEET E000 FOR GENERAL NOTES. NOT ALL GENERAL NOTES SHALL APPLY TO THIS SHEET.
- KEYNOTES:**
1. DISCONNECT AND REMOVE LIGHT FIXTURE. MAINTAIN NORMAL BRANCH CONDUIT AND WIRE FOR EXTENSION AND CONNECTION TO NEW LIGHT FIXTURE. REFER TO NEW WORK PLAN FOR MORE INFORMATION. REMOVE ALL CONDUIT AND WIRE NOT REQUIRED TO REMAIN.
 2. DISCONNECT AND REMOVE LIGHT FIXTURE. MAINTAIN CRITICAL BRANCH CONDUIT AND WIRE FOR EXTENSION AND CONNECTION TO NEW LIGHT FIXTURE. REFER TO NEW WORK PLAN FOR MORE INFORMATION. REMOVE ALL CONDUIT AND WIRE NOT REQUIRED TO REMAIN.
 3. DISCONNECT, REMOVE, AND RELOCATE EXISTING DEVICE. REFER TO NEW WORK PLAN FOR MORE INFORMATION.

STATE OF MISSOURI
BRUCE E. HART
NUMBER
2-22817
PROFESSIONAL ENGINEER
Bruce E. Hart - #E-22817
07/13/2022

ACI BOLAND ARCHITECTS

1710 Wyandotte
Kansas City, MO 64108
T: 816.763.9600

ACI/Boland, Inc.
Kansas City | St. Louis
Licensee's Certificate of Authority Number:
Missouri: #000958

MEP CONSULTANT

IMEG Corp.
1600 Baltimore, Suite 300
Kansas City, Missouri 64108
T: 816.842.8437
Licensee's Certificate of Authority Number:
Missouri: F001325536

SLE - HYBRID OR
100 NE Saint Luke's Blvd
Lee's Summit, MO 64086

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Job Number 3-20034
Drawn By ESA
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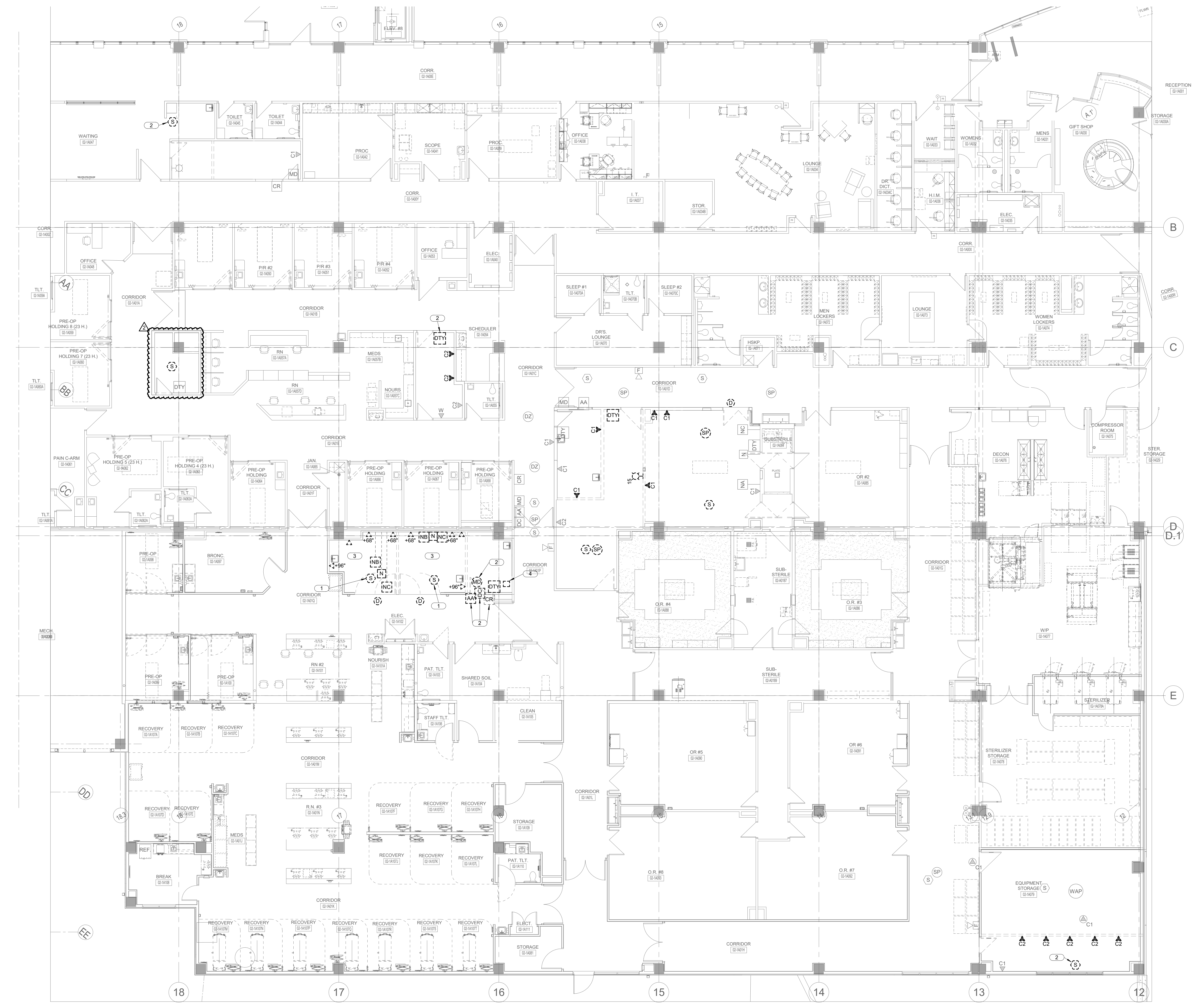
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Number	Date	Description
2	07/13/22	ADDENDUM 2

1 FIRST FLOOR DEMOLITION - LIGHTING

1/8" = 1'-0"

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1 FIRST FLOOR DEMOLITION - SYSTEMS
1/8" = 1'-0"

- SHEET NOTES:**
1. REFER TO SHEET E000 FOR GENERAL NOTES. NOT ALL GENERAL NOTES SHALL APPLY TO THIS SHEET.
- KEYNOTES:** C #
1. SMOKE DETECTOR WITH AUXILIARY CONTACTS FOR NURSE CALL INTERFACE.
 2. DISCONNECT, REMOVE, RELOCATE, AND RECONNECT DEVICE. EXTEND CONDUIT AND CABLE AS REQUIRED TO RECONNECT DEVICE. REFER TO NEW WORK FOR MORE INFORMATION. REMOVE ALL CABLE AND CONDUIT NOT REQUIRED TO REMAIN.
 3. DISCONNECT AND REMOVE ALL DEVICES, WIRING, AND CONDUIT LOCATED IN THIS ROOM. FIELD VERIFY EXISTING CONDITIONS AND DEVICE LOCATIONS.
 4. COORDINATE RELOCATION OF EXISTING CEILING MOUNTED DEVICE WITH OWNER.

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BRUCE E. HART
LICENSED PROFESSIONAL ENGINEER
NUMBER 22817
Bruce E. Hart - #E-22817
07/13/2022

ACI BOLAND ARCHITECTS
1710 Wyandotte
Kansas City, MO 64108
T: 816.763.9600
ACI/Boland, Inc.
Kansas City | St. Louis
Licensee's Certificate of Authority Number:
Missouri: #000958
MEP CONSULTANT
IMEG Corp.
1600 Baltimore, Suite 300
Kansas City, Missouri 64108
T: 816.842.8437
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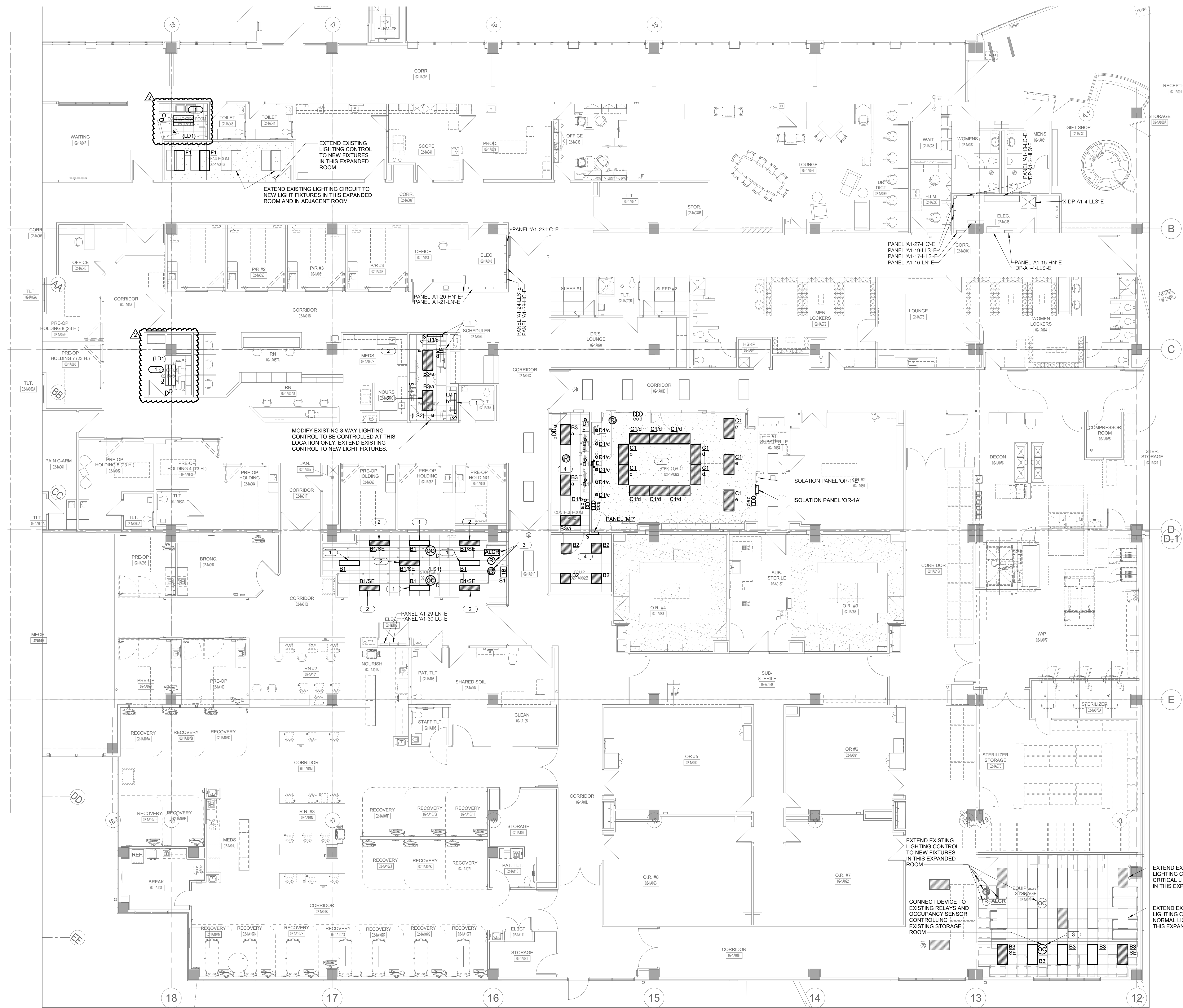
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2 07/13/22 ADDENDUM 2

E121
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FIRST FLOOR DEMOLITION - SYSTEMS

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- SHEET NOTES:**
1. REFER TO SHEET E000 FOR GENERAL NOTES. NOT ALL GENERAL NOTES SHALL APPLY TO THIS SHEET.
 2. PANELBOARD SCHEDULES SHALL BE UPDATED AS REQUIRED TO REFLECT CHANGES TO CIRCUITING.
- KEYNOTES:** **#**
1. CONNECT NEW FIXTURE TO PREVIOUSLY DISCONNECTED AND MAINTAINED NORMAL BRANCH CONDUIT AND WIRE IN AREA. EXTEND CONDUIT AND WIRE AS REQUIRED FOR CONNECTION. REFER TO DEMOLITION PLAN FOR MORE INFORMATION.
 2. CONNECT NEW FIXTURE TO PREVIOUSLY DISCONNECTED AND MAINTAINED CRITICAL CONDUIT AND WIRE IN AREA. EXTEND CONDUIT AND WIRE AS REQUIRED FOR CONNECTION. REFER TO DEMOLITION PLAN FOR MORE INFORMATION.
 3. RELOCATED DEVICE. REFER TO DEMOLITION PLAN FOR MORE INFORMATION.
 4. THE MEP WORK SHOWN IN THIS ROOM IS PRELIMINARY AND WAITING ON FINAL ROOM LAYOUT AND VENDOR EQUIPMENT INFORMATION. REFER TO SEPARATE NARRATIVE ISSUED WITH DOCUMENTS FOR ADDITIONAL INFORMATION FOR PRICING PURPOSES.

STATE OF MISSOURI
BRUCE E. HART
REGISTERED PROFESSIONAL ENGINEER
NUMBER 22817

07/13/2022

ACI
BOLAND
ARCHITECTS

1710 Wyandotte
Kansas City, MO 64108
T: 816.763.9600

ACI/Boland, Inc.
Kansas City | St. Louis
Licensee's Certificate of Authority Number:
Missouri: #000958

MEP CONSULTANT
IMEG Corp.
1600 Baltimore, Suite 300
Kansas City, Missouri 64108
T: 816.842.8437
Licensee's Certificate of Authority Number:
Missouri: F001325536

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100 NE Saint Luke's Blvd
Lee's Summit, MO 64086

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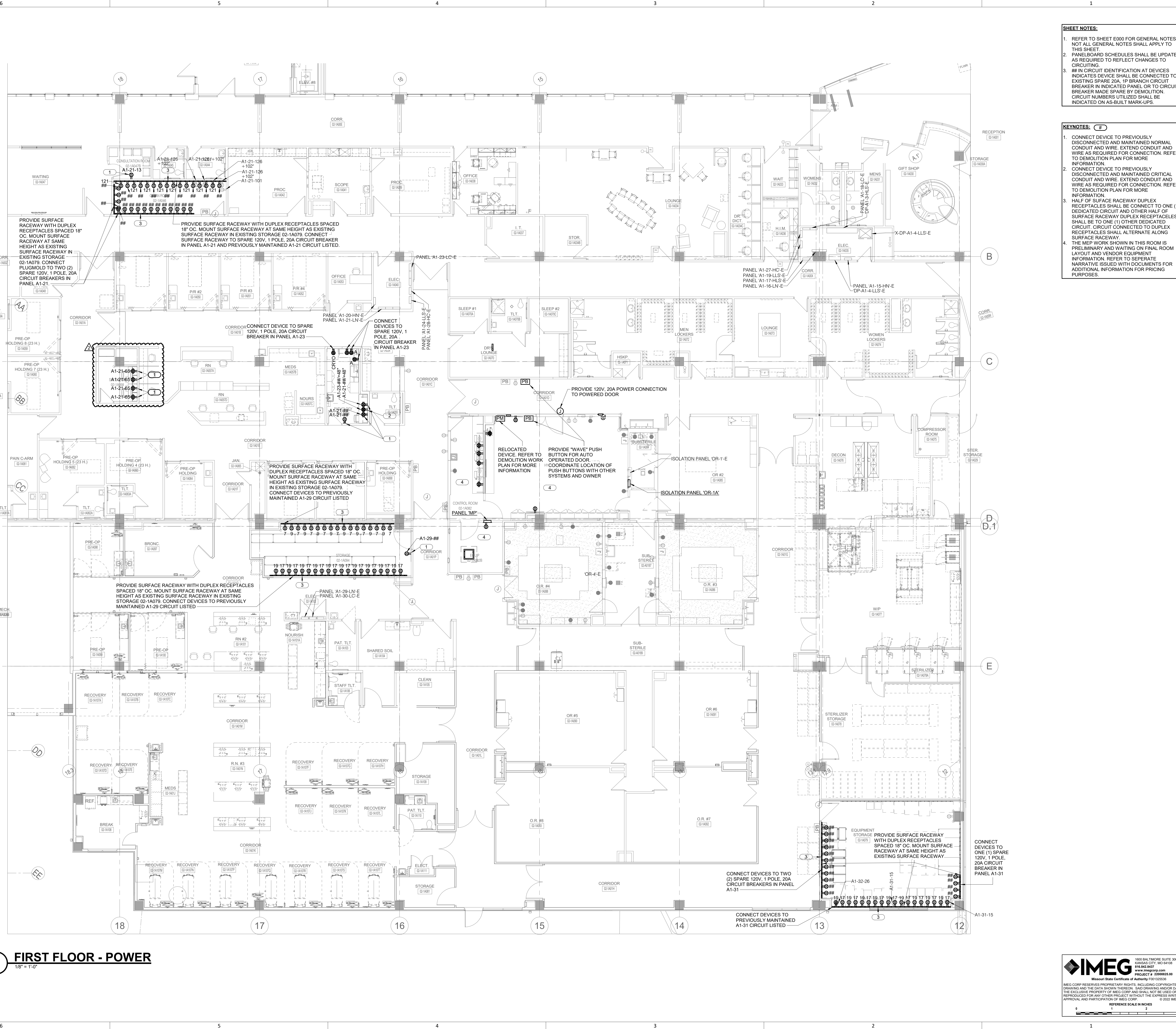
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FIRST FLOOR - LIGHTING

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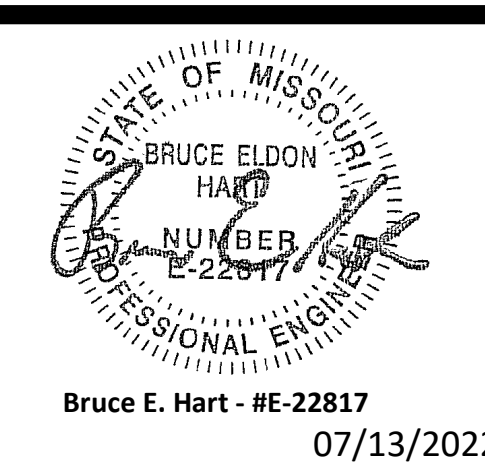


SHEET NOTES:

- REFER TO SHEET E000 FOR GENERAL NOTES. NOT ALL GENERAL NOTES SHALL APPLY TO THIS SHEET.
- PANELBOARD SCHEDULES SHALL BE UPDATED AS REQUIRED TO REFLECT CHANGES TO CIRCUITING.
- ## IN CIRCUIT IDENTIFICATION AT DEVICES INDICATES DEVICE SHALL BE CONNECTED TO EXISTING SPARE 20A, 1P BRANCH CIRCUIT BREAKER IN INDICATED PANEL OR TO CIRCUIT BREAKER MADE SPARE BY DEMOLITION. CIRCUIT NUMBERS UTILIZED SHALL BE INDICATED ON AS-BUILT MARK-UPS.

KEYNOTES: **#**

- CONNECT DEVICE TO PREVIOUSLY DISCONNECTED AND MAINTAINED NORMAL CONDUIT AND WIRE. EXTEND CONDUIT AND WIRE AS REQUIRED FOR CONNECTION. REFER TO DEMOLITION PLAN FOR MORE INFORMATION.
- CONNECT DEVICE TO PREVIOUSLY DISCONNECTED AND MAINTAINED CRITICAL CONDUIT AND WIRE. EXTEND CONDUIT AND WIRE AS REQUIRED FOR CONNECTION. REFER TO DEMOLITION PLAN FOR MORE INFORMATION.
- HALF OF SURFACE RACEWAY DUPLEX RECEPTACLES SHALL BE CONNECT TO ONE (1) DEDICATED CIRCUIT AND OTHER HALF OF SURFACE RACEWAY DUPLEX RECEPTACLES SHALL BE TO ONE (1) OTHER DEDICATED CIRCUIT. CIRCUIT CONNECTED TO DUPLEX RECEPTACLES SHALL ALTERNATE ALONG SURFACE RACEWAY.
- THE MEP WORK SHOWN IN THIS ROOM IS PRELIMINARY AND WAITING ON FINAL ROOM LAYOUT AND VENDOR EQUIPMENT INFORMATION. REFER TO SEPARATE NARRATIVE ISSUED WITH DOCUMENTS FOR ADDITIONAL INFORMATION FOR PRICING PURPOSES.



ACI BOLAND ARCHITECTS

1710 Wyandotte
Kansas City, MO 64108
T: 816.763.9600

ACI/Boland, Inc.
Kansas City | St. Louis
Licensee's Certificate of Authority Number:
Missouri: #000958

MEP CONSULTANT

IMEG Corp.
1600 Baltimore, Suite 300
Kansas City, Missouri 64108
T: 816.842.8437
Licensee's Certificate of Authority Number:
Missouri: F001325536

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100 NE Saint Luke's Blvd
Lee's Summit, MO 64086

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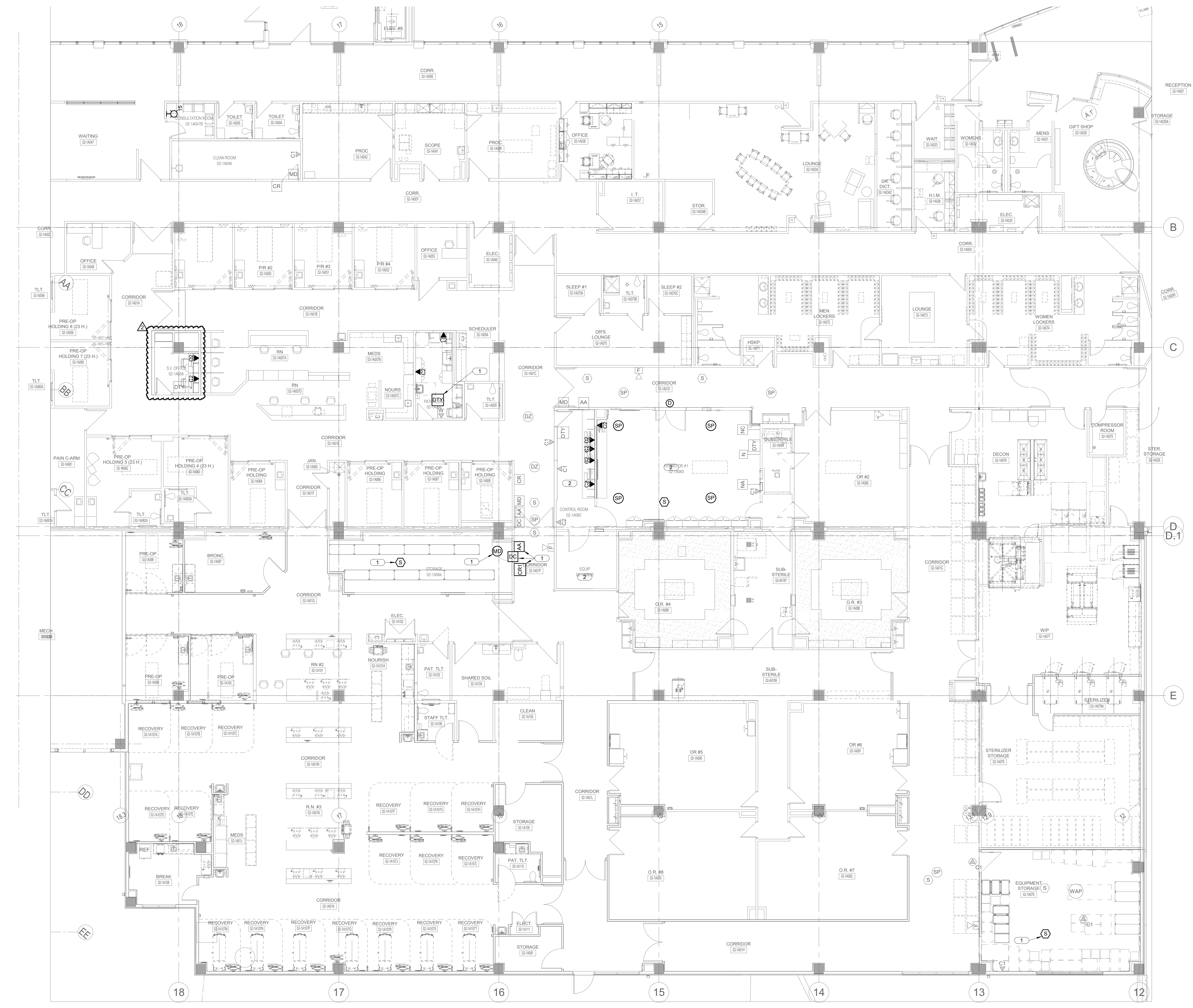
Revision
Number Date Description
2 07/13/22 ADDENDUM 2

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

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1600 BALTIMORE SUITE 300
KANSAS CITY, MO 64108
816.842.8437
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FIRST FLOOR - POWER

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

KEYNOTES: C #
1. RELOCATED DEVICE. EXTEND CABLING AND CONDUIT AS REQUIRED TO RECONNECT DEVICE. REFER TO DEMOLITION PLAN FOR MORE INFORMATION.
2. THE MEP WORK SHOWN IN THIS ROOM IS PRELIMINARY AND WAITING ON FINAL ROOM LAYOUT AND VENDOR EQUIPMENT INFORMATION. REFER TO SEPARATE NARRATIVE ISSUED WITH DOCUMENTS FOR ADDITIONAL INFORMATION FOR PRICING PURPOSES.

STATE OF MISSOURI
BRUCE E. HART
NUMBER 2-22817
PROFESSIONAL ENGINEER
Bruce E. Hart - #E-22817
07/13/2022

ACI BOLAND ARCHITECTS

1710 Wyandotte
Kansas City, MO 64108
T: 816.763.9600

ACI/Boland, Inc.
Kansas City | St. Louis
Licensee's Certificate of Authority Number:
Missouri: #000958

MEP CONSULTANT

IMEG Corp.
1600 Baltimore, Suite 300
Kansas City, Missouri 64108
T: 816.842.8437
Licensee's Certificate of Authority Number:
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Lee's Summit, MO 64086

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LED LUMINAIRE SCHEDULE

(DESC) DOOR:	DISTRIBUTION:	BEAMWIDTH:	(I/L) LENS/LOUVER:	K19 - KSH19 .156" ACRYLIC
FA - FLAT ALUMINUM	II - ANSI/IES TYPE 2 DISTRIBUTION	NSP - VERY NARROW SPOT	A - .125" ACRYLIC	M - MATTE DIFFUSE CLEAR
FS - FLAT STEEL	III - ANSI/IES TYPE 3 DISTRIBUTION	SP - SPOT	B - Baffle/LOUVER	N - NONE
RA - REGRESSED ALUMINUM	IV - ANSI/IES TYPE 4 DISTRIBUTION	MD - MEDIUM	C - CLEAR ALZAK	P - POLYCARBONATE
RS - REGRESSED STEEL	V - ANSI/IES TYPE 5 DISTRIBUTION	WD - WIDE	F - FROSTED ACRYLIC	R - HIGH IMPACT DR ACRYLIC
FINISH:		VWD - VERY WIDE	G - TEMPERED GLASS	SS - SEMI-SPECULAR CLEAR
PAF - PAINT AFTER FABRICATION		VW - WALL WASH	K - KSH12 .125" ACRYLIC	O - OTHER (SEE DESCRIPTION)
CPSA - COLOR-FINISH SELECTION BY ARCHITECT				[DESIGN SPECIFICATION BLANKS]
(MTG) MOUNTING:	RE - RECESSED	(WATT) PER:	FIX - FIXTURE, FT -	FOOT, LAMP
CL - CEILING SURFACE	SP - SUSPENDED	(TYPD) LED	RGB - COLOR CHANGING LED	RGBW - COLOR CHANGING + WHITE
CV - COVE	SU - SURFACE	TLED - TUBULAR LED LAMP	RGBA - COLOR CHANGING + AMBER	OLED - RETROFIT LED
FR - FLANGED RECESSED	UC - UNDER CABINET	OLED - ORGANIC LED	DLED - DYNAMIC TUNABLE LED	WLED - WARM DIM LED
P - PERIMETER	LW - WALL	O - OTHER		
PL - POLE	O - OTHER (SEE DESCRIPTION)			

(TYPE) DRIVER:			
0-10V - 0-10V DIMMING	EB - ELECTRONIC	HL - HIGH/LOW (100%/50%) STEP DIM	MV - MULTI-VOLTAGE ELECTRONIC
DALI - DIGITAL ADDRESSABLE	ELV - ELECTRONIC LOW VOLTAGE	LN - LINE VOLTAGE DIMMING	REM - REMOTE
DMX - DIGITAL MULTIPLEX	EM - EMERGENCY BATTERY	ML - MULTI-LEVEL SWITCHING	O - OTHER (SEE DESCRIPTION)

CATALOG NUMBER SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. THE COMPLETE DESCRIPTION AND THE SPECIFICATION SHALL BE COORDINATED WITH THE CATALOG NUMBER TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN.

VERIFY AND COORDINATE ALL CEILING TYPES WITH LUMINAIRE MOUNTING AND TRIM REQUIREMENTS PRIOR TO THE RELEASE OF THE LUMINAIRE ORDER.
CONFIRM ALL COLORS AND FINISHES OF ALL LUMINAIRE COMPONENTS WITH ARCHITECT AND INTERIOR DESIGNER PRIOR TO THE RELEASE OF THE LUMINAIRE ORDER.
UNLESS INDICATED ON LIGHTING PLANS OR BELOW, REFER TO ARCHITECTURAL AND INTERIOR DESIGN ELEVATIONS, SECTIONS AND DETAILS FOR ALL SUSPENDED AND WALL MOUNTED LUMINAIRE MOUNTING HEIGHTS.

INTERIOR CORRELATED COLOR TEMPERATURE 3500K, COLOR RENDERING INDEX (CRI) AT OR ABOVE 80, UNLESS NOTED OTHERWISE

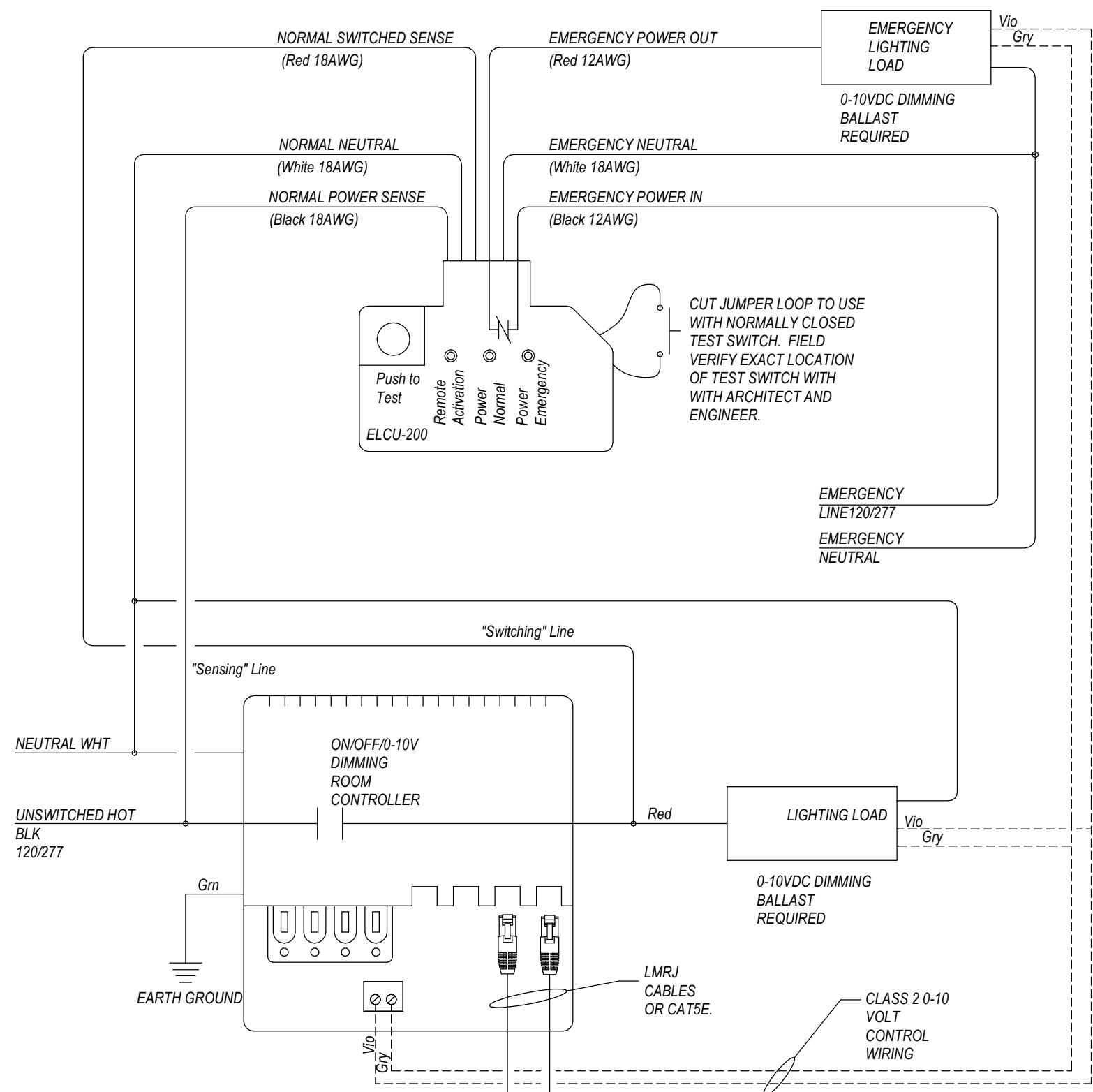
ITEM	DESCRIPTION	L/L	MTG	DIMENSIONS				WATT		LED			DRIVER		MANUFACTURER AND MODEL
				L	W	H	DIA	ANSI WATT S	PER	TYPE	QTY	DELIVERED LUMENS (MIN)	VOLTS	TYPE	
B1	DIRECT TROFFER WITH PRISMATIC LENS. SPRING LOADED CAM ACTION LATCHES. ALL FIXTURE STEEL POST PAINTED BAKED WHITE ENAMEL.	O	RE	4'-0"	1'-0"	4 3/8"		20 W	FIX	LED	1	2,700 LUMENS	120 V	0-10V	WILLIAMS 50
B2	DIRECT TROFFER WITH PRISMATIC LENS. SPRING LOADED CAM ACTION LATCHES. ALL FIXTURE STEEL POST PAINTED BAKED WHITE ENAMEL.	O	RE	2'-0"	2'-0"	4 3/8"		21 W	FIX	LED	1	2,600 LUMENS	120 V	0-10V MV	WILLIAMS 50
B3	DIRECT TROFFER WITH PRISMATIC LENS. SPRING LOADED CAM ACTION LATCHES. ALL FIXTURE STEEL POST PAINTED BAKED WHITE ENAMEL.	O	RE	4'-0"	2'-0"	4 3/8"		25 W	FIX	LED	1	3,300 LUMENS	120 V	0-10V MV	WILLIAMS 50
C1	DIRECT SURGICAL TROFFER WITH SYMMETRIC ACRYLIC SHIELDING AND TRIPLE GASKETING. SPRING LOADED CAM ACTION LATCHES. WHITE ANTI-MICROBIAL FINISH. PROVIDE CUSTOM LUMEN PACKAGE.	O	RE	4'-0"	2'-0"	4 9/16"		114 W	FIX	LED	1	14,700 LUMENS	120 V	0-10V MV	WILLIAMS MDS
D1	6" APERTURE DOWNLIGHT WITH MEDIUM DISTRIBUTION. SATIN-GLOW ANODIZE REFLECTOR WITH TOP DIFFUSE LENS.	O	RE			6 5/8"	6"	9 W	FIX	LED	1	1,000 LUMENS	120 V	0-10V MV	WILLIAMS SDR
E1	EMERGENCY UNIT. TWO ADJUSTABLE HEADS. WHITE THERMOPLASTIC HOUSING. SELF TEST & DIAGNOSTICS OF INVERTER AND LAMPS.	O	WL	1'-0"	3 3/4"	4 9/16"		2 W	FIX	LED	1	LED	120 V	EM MV	WILLIAMS EMERLED
F1	DIRECT TROFFER WITH SOLID SIDES AND PRISMATIC LENS. SPRING LOADED CAM ACTION LATCHES. ALL FIXTURE STEEL POST PAINTED BAKED WHITE ENAMEL. PROVIDE CUSTOM LUMEN PACKAGE.	O	SU	4'-0"	2'-0"	3 13/16"		25 W	FIX	LED	1	3,300 LUMENS	120 V	0-10V MV	WILLIAMS 12
J	RECESSED INDIRECT/DIRECT, PERFORATED METAL LAMP SHIELD WITH ACRYLIC DIFFUSER.	O	RE	4'-0"	2'-0"	5 1/2"		49 W	FIX	LED	1	5,800 LUMENS	277 V	0-10V	WILLIAMS PT
K	UNDER CABINET UNIT WITH SOLID FRONT & DIFFUSE ACRYLIC LENS. ANTI-MICROBIAL PAINTED STEEL HOUSING.	O	UC	4'-0"	4 7/8"	1"		21 W	FIX	LED	1	2,400 LUMENS	120 V	EM MV	WILLIAMS 50
U4	UNDER CABINET UNIT WITH SOLID FRONT & DIFFUSE ACRYLIC LENS. ANTI-MICROBIAL PAINTED STEEL HOUSING.	O	UC	4'-0"	4 7/8"	1"		21 W	FIX	LED	1	2,400 LUMENS	120 V	EM MV	WILLIAMS 1SF

LIGHTING SEQUENCE OF OPERATION

NOTES:

1. [LW] DENOTES THE LIGHTING SEQUENCE OF OPERATIONS FOR THIS SPACE.
2. [LW] PUSH BUTTON REFERS TO SCENE QUANTITY. CONTROL STATION SHALL BE CAPABLE OF [RAISE/LOWER AND SWITCH/ON/OFF FOR MULTIPLE SCENES AS PROVIDED ON SHEETS AND THE LIGHTING SEQUENCE OF OPERATIONS ([LW]).
3. [LW] DENOTES THE LIGHTING SEQUENCE OF OPERATIONS FOR EACH CONTROLLED SPACE. [LW] SHALL BE CAPABLE OF [RAISE/LOWER AND SWITCH/ON/OFF FOR MULTIPLE SCENES AS PROVIDED ON SHEETS AND THE LIGHTING SEQUENCE OF OPERATIONS ([LW]).
4. [LW] DENOTES LIGHTING CONTROL ZONE. INDICATE SEPARATE CONTROL OF EACH CONTROLLED ZONE. LUMINAIRES ASSOCIATED WITH THE SAME ZONE SHALL OPERATE TOGETHER WITHIN THE SAME PROGRAMMED SCENE.
5. [LW] DENOTES LIGHTING CONTROL ZONE. INDICATE SEPARATE CONTROL OF EACH CONTROLLED ZONE. LUMINAIRES ASSOCIATED WITH THE SAME ZONE SHALL OPERATE TOGETHER WITHIN THE SAME PROGRAMMED SCENE.
6. VERIFY AND COORDINATE ALL TIME CLOCK SETTINGS WITH OWNER PRIOR TO FINAL PROGRAMMING.
7. VERIFY AND COORDINATE ALL BUTTON NAME PLATE DEVICES AND QUANTITIES OF INDIVIDUAL BUTTONS WITH SCENES AND ZONES PER LOCATION.
8. VERIFY AND COORDINATE ALL PUSH BUTTON QUANTITIES AND SCENE NAMES WITH OWNER PRIOR TO SUBMITTING ENGLISH LANGUAGE TO MANUFACTURER.

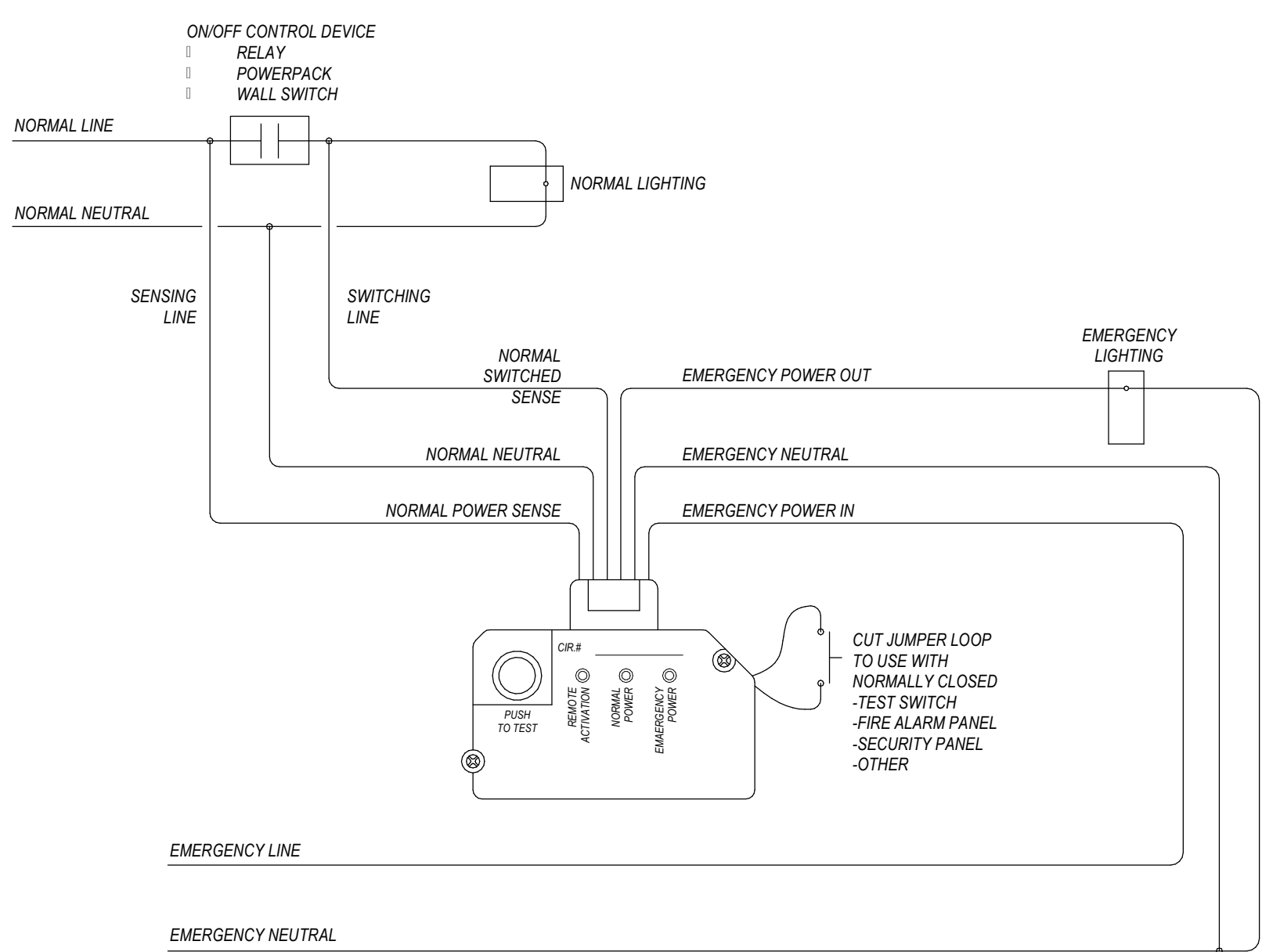
PLANS		LIGHTING SWITCHES
(LD1)	Sequence: Dimmed lights are vacancy controlled in this space. ON: The lights are turned on using wall dimmer. CONTROL: The lights are dimmed using wall dimmer. OFF: After the space has been vacant for 15 minutes, the lights will automatically turn off.	Sequence: Dimmed lights are vacancy controlled in this space. ON: The lights are turned on using wall dimmer. CONTROL: The lights are dimmed using wall dimmer. OFF: After the space has been vacant for 15 minutes, the lights will automatically turn off.
(LS2)	Sequence: Switched lights are manually controlled in this space. ON: The lights turned on using switches. OFF: The lights turn off using switches.	Sequence: Switched lights are manually controlled in this space. ON: The lights turned on using switches. OFF: The lights turn off using switches.



SEQUENCE OF OPERATION: UPON THE LOSS OF NORMAL POWER, THE ELCU-200 WILL BYPASS THE ROOM CONTROLLER AND FORCE THE EMERGENCY FIXTURES ON. THE ROOM CONTROLLER WILL FORCE THE DIMMED EMERGENCY FIXTURE TO 100%. THE ELCU-200 IS UL924 LISTED.

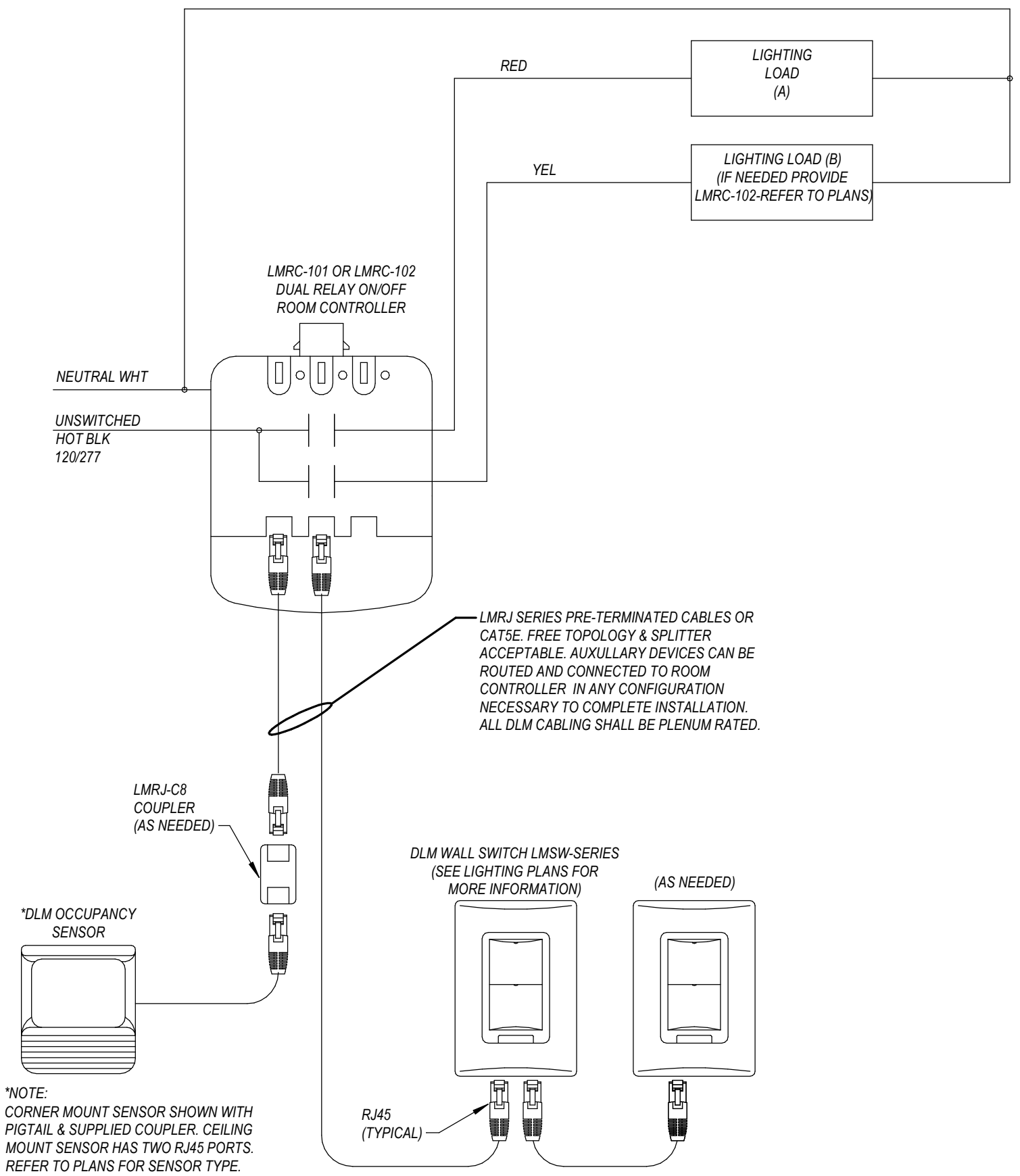
DETAIL OF LMRC UNIT, DRIVER, AND ELCU-200 EMERGENCY BYPASS UNIT

NO SCALE



DETAIL OF AUTOMATIC LIGHTING CONTROL RELAY - NORMAL AND EMERGENCY SWITCHED TOGETHER

NO SCALE



LMRC-101
SEQUENCE OF OPERATION: IN THIS CONFIGURATION THE LMRC-101 DEFAULTS TO MANUAL-ON/AUTOMATIC OFF.

NOTE:
-FURNISH WITH TWO (2) LMCT-100 DIGITAL WIRELESS CONFIGURATION TOOLS.
-PROVIDE COMMISSIONING AND TRAINING FOR ALL INSTALLATIONS.
-PROVIDE ENGRAVING FOR BUTTONS ON ALL INSTALLATIONS.
-ALL SHIELDING FOR OCCUPANCY SENSORS SHALL BE TURNED OVER TO OWNER.

LMRC-102
SEQUENCE OF OPERATION: IN THIS CONFIGURATION THE LMRC-102 DEFAULTS TO MULTI-LEVEL AUTOMATIC-ON/AUTOMATIC OFF. LOAD (A) TURNS ON AUTOMATICALLY AND LOAD (B) DEFAULTS TO MANUAL-ON CONTROL; BOTH LOADS TURN AUTOMATICALLY OFF.

DETAIL OF LMRC-101 AND LMRC-102 ROOM CONTROLLER CABLING

NO SCALE

THIS SET OF FINAL DRAWINGS IS REFLECTIVE OF THE LATEST SALES CONFIGURATION. ANY CHANGES TO THIS SALES CONFIGURATION MAY REQUIRE A REVISION TO THIS PROJECT PLAN. IF REQUESTED, SIEMENS WILL PRODUCE A REVISED SET OF FINAL DRAWINGS TO REFLECT THE CHANGES, HOWEVER SIEMENS IS NOT RESPONSIBLE FOR ANY CONSTRUCTION COSTS ASSOCIATED WITH THE CHANGES THAT OCCUR FROM THIS PLAN MODIFICATION.

IF THE CUSTOMER OR SIEMENS-SUPPLIED UPS SOLUTION IS NOT INSTALLED AND OPERATIONAL AT THE TIME OF THE SIEMENS DELIVERY, SIEMENS CANNOT AND WILL NOT INSTALL THE AFFECTED SIEMENS SYSTEM!

NOTE: THE UPS IS SUPPLIED AND DELIVERED TO CUSTOMER'S LOADING DOCK BY SIEMENS. CUSTOMER'S ELECTRICIAN IS RESPONSIBLE FOR MOVING FROM LOADING DOCK TO FINAL LOCATION AND COMPLETING ALL CONNECTIONS. THE UPS MUST NOT BE LOCATED IN A PATIENT ENVIRONMENT. SIEMENS PROJECT MANAGER WILL SCHEDULE UPS STARTUP PRIOR TO DELIVERY OF SIEMENS IMAGING EQUIPMENT.

 NON-SIEMENS (OEM) DISPLAY BOOMS CONTAINING SIEMENS MONITORS:

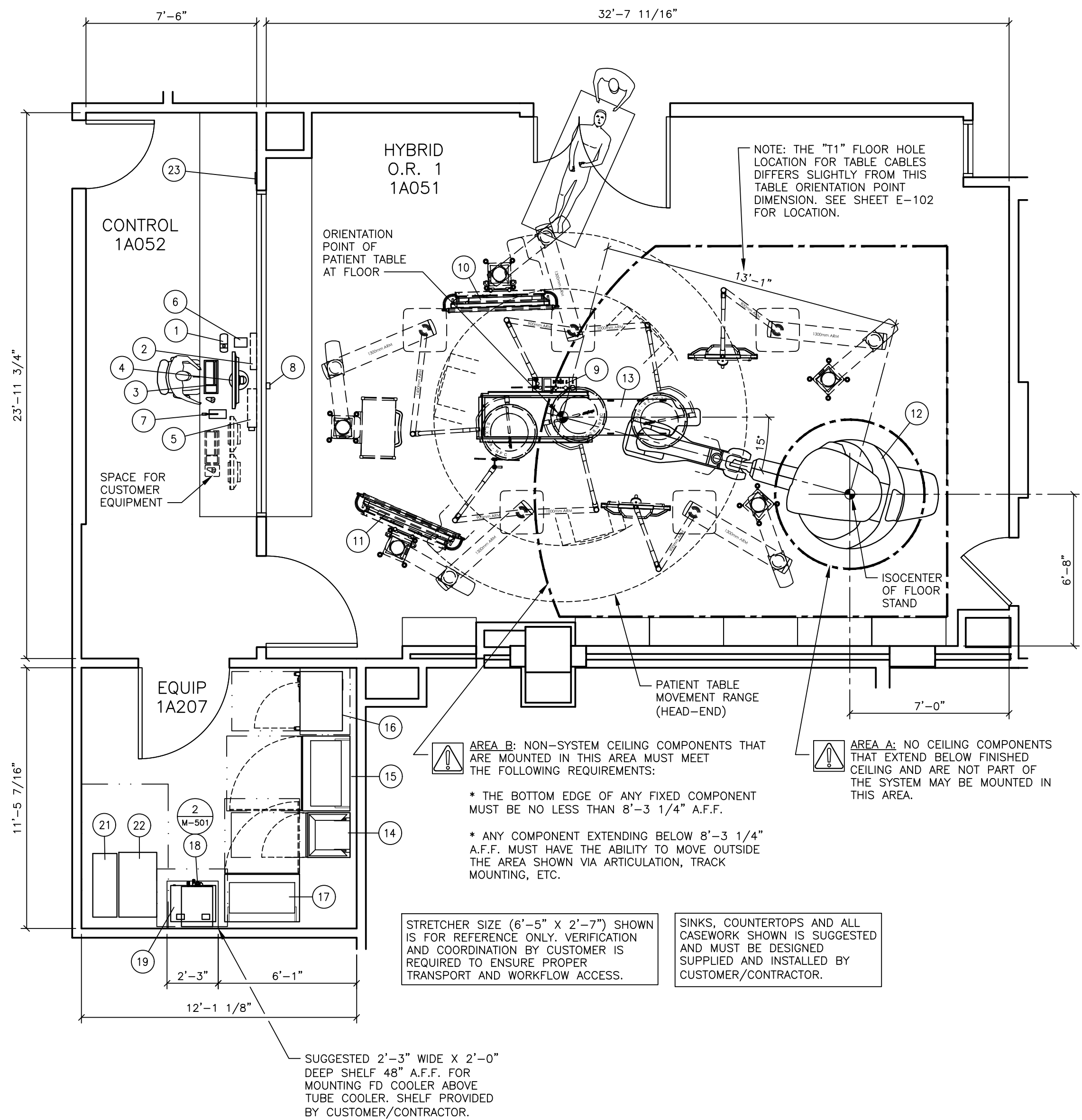
IMPORTANT SAFETY CRITERIA: FAILURE TO MEET THE FOLLOWING REQUIREMENTS MAY RESULT IN RISK OF INJURY TO PATIENTS, PERSONNEL OR DAMAGE TO THE EQUIPMENT!

1) IT MUST BE POSSIBLE TO MANUALLY MOVE THE BOOM VERTICALLY WITH A FORCE LESS THAN 85 N (19 LBS) WHEN POSITIONING THE DISPLAY BOOM OVER THE PATIENT.

2) TO AVOID THE RISK OF CRUSHING PERSONS OR DAMAGING EQUIPMENT IN THE EVENT THAT THE ANGIOGRAPHY SYSTEM COMES INTO CONTACT WITH THE DISPLAY BOOM, IT MUST BE POSSIBLE TO PUSH THE BOOM AWAY IN A HORIZONTAL DIRECTION WITH A FORCE LESS THAN 50 N (11 LBS).

3) MOTORIZED, HEIGHT-ADJUSTABLE DISPLAY BOOMS WHICH CANNOT MANUALLY BE PUSHED AWAY MAY NOT BE USED.

DELIVERY AND INSTALLATION: IT IS RECOMMENDED THAT INSTALLATION OF 3RD PARTY DISPLAY BOOMS BE COORDINATED WITH THE 3RD PARTY MANUFACTURER, IN ORDER TO ENSURE THE SIMULTANEOUS INSTALLATION OF THE SYSTEM AND THE DISPLAY BOOM, THE 3RD PARTY MANUFACTURER SHALL BE RESPONSIBLE FOR THE PLANNING PROCESS TO ENSURE THAT THE BOOM MANUFACTURER'S LEAD TIME CAN BE COORDINATED WITH THE SIEMENS LEAD TIME. SIEMENS WILL OBLIGATE THE THIRD-PARTY MANUFACTURER IS RESPONSIBLE FOR THE INSTALLATION, MAINTENANCE, AND SERVICE OF THE DISPLAY BOOM(S). THE 3RD PARTY MANUFACTURER IS RESPONSIBLE FOR INSTALLING THE SIEMENS COMPONENTS IN THE DISPLAY BOOM IN ACCORDANCE WITH SIEMENS INSTALLATION INSTRUCTIONS. SIEMENS ASSUMES NO RESPONSIBILITY FOR ANY DAMAGE TO SIEMENS COMPONENTS WHICH ARE NOT INSTALLED IN ACCORDANCE WITH SIEMENS INSTALLATION INSTRUCTIONS. SIEMENS TECHNICIANS MUST BE GIVEN INSTRUCTIONS AND/OR TRAINING AS APPROPRIATE BY THE 3RD PARTY MANUFACTURER FOR THE MAINTENANCE OF THE SIEMENS COMPONENTS (I.E. DISPLAY, CABLES), OR A TECHNICIAN FROM THE THIRD-PARTY MANUFACTURER MUST BE PRESENT WHENEVER ANY SERVICE WORK IS PERFORMED.



NO	DESCRIPTION	SMS SYM	WEIGHT (LBS)	BTU/HR TO AIR	DIMENSIONS (INCHES)			REMARKS
					W	D	H	
①	CPC (CENTRAL POWER CONTROL)	☰	3	N/A	9 5/8	4	2 1/2	ON CONTROL COUNTER
②	CONTROL INTERFACE BOARD	☰	18	342	19 1/4	3 1/4	13 1/2	ON WALL UNDER COUNTER
③	KEYBOARD	☰	2.2	342	17 1/2	6 1/8	2 1/8	MTD. UNDER COUNTER OR ON CONSOLE
④	32" LARGE CONTROL ROOM DISPLAY	☰	41	512	30	4	18 1/2	ON COUNTER OR CONSOLE
⑤	INJECTOR WALL BOX – CONTROL ROOM	☰	18	342	20 1/4	4 3/4	13 3/8	ON WALL UNDER COUNTER
⑥	INTERCOM POWER UNIT	☰	----	----	6 3/4	5	1 3/8	ON COUNTER
⑦	INTERCOM MICROPHONE/LOUDSPEAKER (CONTROL ROOM)	☰	----	----	4 1/2	9	2	ON COUNTER
⑧	INTERCOM LOUDSPEAKER (PROCEDURE ROOM)	☰	----	----	3 1/4	2	6	WALL MOUNTED
⑨	TABLE CONTROL MODULES	☰	13	----	23	7 1/2	4	ON TABLE OR TROLLEY
⑩	55" LARGE DISPLAY – BOOM 1 (MONITOR ONLY)	☰	90	1,706	49 3/4	5 1/4	29	OEM BOOM MOUNTED
⑪	55" LARGE DISPLAY – BOOM 2 (MONITOR ONLY)	☰	90	1,706	49 3/4	5 1/4	29	OEM BOOM MOUNTED
⑫	ARTIS PHENO FLOOR STAND W/ MOUNTING PLATE	☰	3,428	1,706	----	----	----	ROBOT FLOOR MOUNTED
⑬	PATIENT TABLE	☰	1,200	683	----	----	----	TABLE FLOOR MOUNTED
⑭	GENERATOR (ACX) (VE21 SOFTWARE)	☰	551	4,095	23 5/8	23 1/4	63 1/2	FLOOR MOUNTED
⑮	SYSTEM CONTROL CABINET	☰	870	13,649	39 1/2	25 1/2	74 3/4	FLOOR MOUNTED
⑯	FLOOR STAND CONTROL CABINET	☰	396	3,412	31 1/4	22 1/2	42	FLOOR MOUNTED
⑰	ATIS IMAGE SYSTEM (VE2x VERSION)	☰	772	5,971	39 1/2	25 1/2	74 3/4	FLOOR MOUNTED
⑱	TUBE COOLING UNIT	☰	80	15,355	16 1/2	28 1/4	19 1/4	FLOOR OR SHELF MOUNTED
⑲	FD COOLER	☰	55	1,979	23 5/8	19	11 3/4	FLOOR OR SHELF MOUNTED
⑳	MEDRAD ARTERION INJECTOR INTEGRATED PEDESTAL MOUNTED (REMOVED)	☰	146	----	47 5/16	22	57 3/8	SEE MFG REQUIREMENTS
㉑	EATON 9355 15KVA UPS AND BATTERY	☰	755	8,134	12 3/4	33 1/2	47 3/4	SEE MFG REQUIREMENTS
㉒	EATON 9355 OUTPUT TRANSFORMER CABINET	☰	490	----	20	34 1/8	66	SEE MFG REQUIREMENTS
㉓	EATON 9355 REMOTE MONITORING DEVICE	☰	0.5	----	6	1	3	SEE MFG REQUIREMENTS

- 1) ALL PRELIMINARY EQUIPMENT LAYOUTS SUBMITTED BY SIEMENS HEALTHCARE ARE BASED ON THE RECOMMENDED SPACE NECESSARY FOR THE OPERATION AND SERVICEABILITY OF THE EQUIPMENT BEING PROVIDED. SIEMENS SHALL BE RESPONSIBLE FOR ANY LAYOUT THAT IS NOT IN THE BEST INTEREST OF BOTH THE CUSTOMER AND SIEMENS. ALL EQUIPMENT LAYOUTS ARE BASED EITHER ON AN ACTUAL SITE SURVEY OR ARCHITECTURAL DRAWINGS SUPPLIED TO SIEMENS. SIEMENS WILL BE RESPONSIBLE FOR ANY LAYOUT THAT VIOLATES ANY CODES WITHIN DESIGNATED SAFETY AND SERVICE CLEARANCE ZONES AS INDICATED ON DRAWINGS (I.E. PIPE CHASES, VENTILATION DUCTS, CASEWORK, AND SOFFITS, ETC.) MADE BY THE CUSTOMER OR REQUIRED BY A CUSTOMER'S ARCHITECTURAL FIRM ONCE PRELIMINARY DRAWINGS HAVE BEEN SUBMITTED TO SIEMENS. SIEMENS SHALL BE RESPONSIBLE FOR SPECIFICATIONS AND/OR DIMENSIONS WITHOUT CONTACTING AND RECEIVING WRITTEN CONFIRMATION FROM SIEMENS PROJECT MANAGER.
- 2) SIEMENS HEALTHCARE IS NOT AN ARCHITECTURAL OR ENGINEERING FIRM. DRAWINGS SUBMITTED BY SIEMENS TO THE ARCHITECTURAL FIRM ARE FOR INFORMATION ONLY. THE DRAWINGS ARE TO BE USED ONLY FOR INFORMATION TO COMPLEMENT ACTUAL CONSTRUCTION DRAWINGS AVAILABLE FROM A CUSTOMER APPOINTED ARCHITECTURAL REPRESENTATIVE OR A CUSTOMER'S ENGINEERING DESIGN GROUP. THE CUSTOMER'S ARCHITECTURAL FIRM SHALL BE RESPONSIBLE FOR ANY ULTIMATELY REQUIRED FOR COMPLIANCE WITH ALL APPLICABLE CODES AND PROFESSIONAL DESIGN REQUIREMENTS INCLUDING OSHA/NEC SAFETY CLEARANCE REQUIREMENTS IN ADDITION TO SIEMENS-REQUIRED SAFETY/SERVICE CLEARANCE REQUIREMENTS.
- 3) THE CUSTOMER IS RESPONSIBLE FOR ALL ROOM AND AREA PREPARATION COSTS, PROFESSIONAL FEES, PERMITS, REPORTS, AND INSPECTION FEES.
- 4) EQUIPMENT WARRANTIES, EXPRESSED OR IMPLIED ON THE PART OF SIEMENS SHALL BE CONTINGENT UPON STRICT COMPLIANCE WITH THE ARCHITECTURAL, STRUCTURAL, ELECTRICAL, MECHANICAL AND RECOMMENDATIONS AND REQUIREMENTS CONTAINED IN THESE DRAWINGS, UNLESS SPECIFIED OTHERWISE.
- 5) DIMENSIONS SHOWN ARE FROM FINISHED SURFACES UNLESS SPECIFIED OTHERWISE.
- 6) THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR OBTAINING RADIATION SHIELDING REQUIREMENTS FROM A REGISTERED RADIATION PHYSICIST. ACTUAL PROTECTION REQUIREMENTS SHALL BE SPECIFIED BY A REGISTERED RADIATION PHYSICIST AT CUSTOMER'S ENGAGEMENT AND EXPENSE. INFORMATION AS TO ALL INFORMATION AS TO THE ROOM LOCATION, SIZE, USE, ANTICIPATED RADIATION DOSE, AND THE PERFORMED PER TIME PERIOD SHALL BE PROVIDED TO THE PHYSICIST BY THE CUSTOMER. THE CUSTOMER SHALL FURTHER TAKE ALL RESPONSIBILITY IN THE COMMUNICATION AND COORDINATION OF ACTUAL REQUIREMENTS OF THE RADIATION PHYSICIST AND THE ARCHITECTURAL REPRESENTATIVE.
- 7) SIEMENS HEALTHCARE SHALL BE RESPONSIBLE FOR SIEMENS EQUIPMENT INSTALLATION, CALIBRATION, CONNECTION AND INSTALLATION OF SIEMENS PROVIDED CABLES. THE CUSTOMER/ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING:
A) PROVIDE ALL CONTRACTOR-SUPPLIED CABLES TO SIEMENS EQUIPMENT. IN THE EVENT THAT SPECIFIC TRADE RULES OR LICENSE REQUIREMENTS PROHIBIT THIS, THE CUSTOMER SHALL INITIATE THE SERVICES OF APPROVED OTHER CONTRACTORS AND PROVIDE THE NECESSARY PERMITS TO PERFORM THIS WORK WITH SUPERVISION PROVIDED BY SIEMENS. CALIBRATION WHEN ACCOMPLISHED OUTSIDE OF NORMAL INSTALLATION SEQUENCES DUE TO CONTRACTOR OR TRADE RULE ACTIONS OR REQUIREMENTS SHALL BE SUPPORTED BY SIEMENS. SIEMENS SHALL BE RESPONSIBLE FOR THE CUSTOMER AS AN ADDITIONAL INSTALLATION EXPENSE.
- 8) THE CUSTOMER SHALL COORDINATE WITH SIEMENS PROJECT MANAGER THE LOCATIONS AND TRAVEL OF ALL ANCILLARY EQUIPMENT TO BE CEILING MOUNTED, WALL MOUNTED, OR FLOOR MOUNTED. THIS INCLUDES PHYSIOLOGICAL MONITORING INJECTORS, CRT PLATFORMS, SPRINKLER HEADS, SMOKE DETECTORS, ELECTRICAL OUTLETS, HVAC GRILLES, SPEAKERS, AND GENERAL ROOM LIGHTING, ETC.).
- 9) THE GENERAL CONTRACTOR/CUSTOMER SHALL BE RESPONSIBLE FOR ALL, WITHIN THE PROJECT, TO BE COMPLETED OR TRIM WORK WHICH NEEDS TO BE OR IS REQUIRED TO BE COMPLETED AFTER THE INSTALLATION OF THE SIEMENS EQUIPMENT AND ANY ASSOCIATED SUPPORT APPARATUS.
- 10) CUSTOMER/CONTRACTOR MUST ASSIST SIEMENS INSTALLERS WITH INSTALLATION OF EQUIPMENT ABOVE 14'-0", REFER TO THE ELECTRICAL NOTES ON SIEMENS SHEET E-101 FOR MORE DETAILS.

<p>THE PRESENCE OF MAGNETIC FIELDS IN THE VICINITY OF EQUIPMENT MAY HAVE AN ADVERSE EFFECT. IT IS THE CUSTOMER'S RESPONSIBILITY TO VERIFY THAT THE FOLLOWING VALUES ARE NOT EXCEEDED.</p>	
<p>MAXIMUM ALLOWABLE MAGNETIC FIELD</p>	<p>DEVICES</p>
<p>1.0mT (10 GAUSS)</p>	<p>COMPUTERS, MAGNETIC DISK DRIVES, OSCILLOSCOPES, PROCESSORS</p>
<p>0.5mT (5 GAUSS)</p>	<p>X-RAY TUBES, B/W MONITORS, MAGNETIC DATA CARRIERS, DATA STORAGE DRIVES</p>
<p>0.2mT (2 GAUSS)</p>	<p>SIEMENS CT SCANNERS</p>
<p>0.15mT (1.5 GAUSS)</p>	<p>COLOR MONITORS, SIEMENS LINEAR ACCELERATORS</p>
<p>0.05mT (0.5 GAUSS)</p>	<p>X-RAY IMAGE INTENSIFIERS, GAMMA CAMERAS, PET/CYCLOTRON, OTHER LINEAR ACCELERATORS</p>
<p>MAGNETIC FIELDS SHOULD BE MEASURED PRIOR TO DELIVERY</p>	

PRIOR TO SIEMENS EQUIPMENT INSTALLATION, APPROVAL OF CONSTRUCTION OR STRUCTURAL MODIFICATIONS UTILIZING X-RAY FOR DIAGNOSTIC OR THERAPEUTIC PURPOSES, MUST BE OBTAINED BY THE CUSTOMER FROM THE APPROPRIATE STATE AGENCY, IF APPLICABLE.

DESIGNATION	PG NUMBER	DATE
ARTIS PHENO	ATHE-PGR.891.01.02.02	10.20

ARTIS PHENO
REV. 31

PROJECT MANAGER: MARK BUXTON
TEL: (417) 576-7820
VMAIL: EXT:
FAX:
EMAIL: MARK.BUXTON@SIEMENS-HEA

SIEMENS

ST LUKES EAST LEES SUMMIT

PROJECT #:
2102395

SHEET:
A-101

SHEET 1 OF 7	DRAWN BY: E. SANDIFER
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THE USE OR REPRODUCTION OF
THIS TITLE BLOCK WITHOUT
SIEMENS AUTHORIZATION WILL
RESULT IN PROSECUTION UNDER
FULL EXTENT OF THE LAW.
ALL RIGHTS ARE RESERVED.

SCALE: AS NOTED	REF. #: 30267218
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9'-1 1/16" - 10'-2"

FINISHED CEILING

FLOOR STAND

PATIENT TABLE

DISPLAY SUSPENSION

6" MAX.

2'-0"

3'-8" MIN.

4'-10" MAX.

5'-10" MIN.

2'-0" MAX.

2'-0"

T1

B10

ONLY SEE DIAGRAM FOR POSSIBLE BOX PLACEMENT AND HEIGHT OPTIONS. VALIDATE EXACT PROJECT MANAGER.

THE "B10" FIXPOINT IS A THRU-FLOOR PENETRATION PROVIDED AS A MEANS OF CONNECTING A TABLE, INJECTOR OR OTHER NON-SIEMENS ACCESSORIES AT THE TABLE FOR WHICH CABLE ROUTING THROUGH THE SIEMENS TABLE BASE WOULD BE PROHIBITED. THIS OPENING CAN BE ELIMINATED AS REQUIRED, OR IT CAN BE COMBINED INTO A CUSTOMER-SUPPLIED GAS/UTILITY BOX ON THE FLOOR. NOTE: THE 2'-0" DISTANCE FROM TABLE ISOCENTER SHOWN HERE APPLIES TO A CABLE PENETRATION POINT ONLY. SEE DIAGRAM FOR POSSIBLE BOX PLACEMENT AND HEIGHT OPTIONS. VALIDATE EXACT PROJECT MANAGER.

SCALE: $1/4" = 1'-0"$

IN SYSTEMS WITH FLAT PANEL DETECTORS, THE DETECTOR IS REMOVED FROM THE STAND FOR TRANSPORT TO THE CUSTOMER. THE LIMITED TRANSPORT AND STORAGE CONDITIONS APPLY FOR THE DETECTOR.

FLAT PANEL DETECTOR:

TEMPERATURE RANGE: -4° F TO 158° F

RELATIVE HUMIDITY: 10% TO 95% NON CONDENSING

AIR PRESSURE: 700 hPa TO 1060 hPa

	COMPONENT	LENGTH	WIDTH	HEIGHT	WEIGHT
LONGITUDINAL CASTORS	FLOOR STAND	80"	43"	73"	2,811 LBS.
	C-ARM	103"	39"	72"	1,102 LBS.
TRANSVERSE CASTORS	FLOOR STAND	80"	57"	73"	2,811 LBS.
	C-ARM	88"	53"	72"	1,102 LBS.

PROJECT MILESTONES TO BE COMPLETED BEFORE EQUIPMENT DELIVERY		REFERENCE SHEET
<input type="checkbox"/>	Storage area available for storing items during installation	A-101
<input type="checkbox"/>	Lead shielding (walls, doors, windows) complete	A-101
<input type="checkbox"/>	Climate control functioning 24 hours a day, 7 days a week	A-101
<input type="checkbox"/>	Delivery path verified for largest piece, including rails	A-101
<input type="checkbox"/>	Casework complete in control room	A-101
<input type="checkbox"/>	All walls primed and painted. Flooring installed	A-101
<input type="checkbox"/>	Room lighting complete and functional	A-101
<input type="checkbox"/>	Network drops active and IP addresses obtained for Siemens Remote Services (SRS)	A-102
<input type="checkbox"/>	Nothing hanging below ceiling in area shaded on drawing	A-102
<input type="checkbox"/>	Floor thickness and anchoring spec's verified. If req'd, all solutions per engineer of record in place	S-101
<input type="checkbox"/>	All conduits, troughs, in-floor pull boxes and/or core drills avoid conflict with floor plate anchors	S-101
<input type="checkbox"/>	Unistrut installed to correct height, location, and levelness (check minimum ceiling height)	S-102
<input type="checkbox"/>	Cable runs checked to ensure maximum lengths not exceeded	E-101
<input type="checkbox"/>	X-Ray warning light and wiring installed	E-101
<input type="checkbox"/>	Contractor supplied electrical wiring / pigtails installed	E-102
<input type="checkbox"/>	Cable inlets located per plans	E-102
<input type="checkbox"/>	EPO's installed and functional	E-102
<input type="checkbox"/>	UPS started and functional	E-102
<input type="checkbox"/>	Ancillary equipment (OEM items, booms, etc) installed	E-102
<input type="checkbox"/>	Breakers installed and facility power available	E-501
<input type="checkbox"/>	All rooms containing Siemens equipment are clean and dust-free	A-101

CEILING HEIGHT RANGE	RECOMMENDED CEILING HEIGHT
----------------------------	----------------------------------

9'-1 1/16" - 10'-2"

RECOMMENDED
CEILING
HEIGHT

9'-6"

			PROJECT MANAGER: MARK BUXTON
			TEL: (417) 576-7820
			VMAIL: EXT:
			FAX:
			E-MAIL: MARK.BUXTON@SIEMENS-HEALTHINEERS.COM

ST LUKES EAST LEES SUMMIT

PROJECT #:
2102395

SHEET:
A-101

SHEET 1 OF 7	DRAWN BY: E. SANDIFER
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SCALE: AS NOTED	REF. #: 30267218
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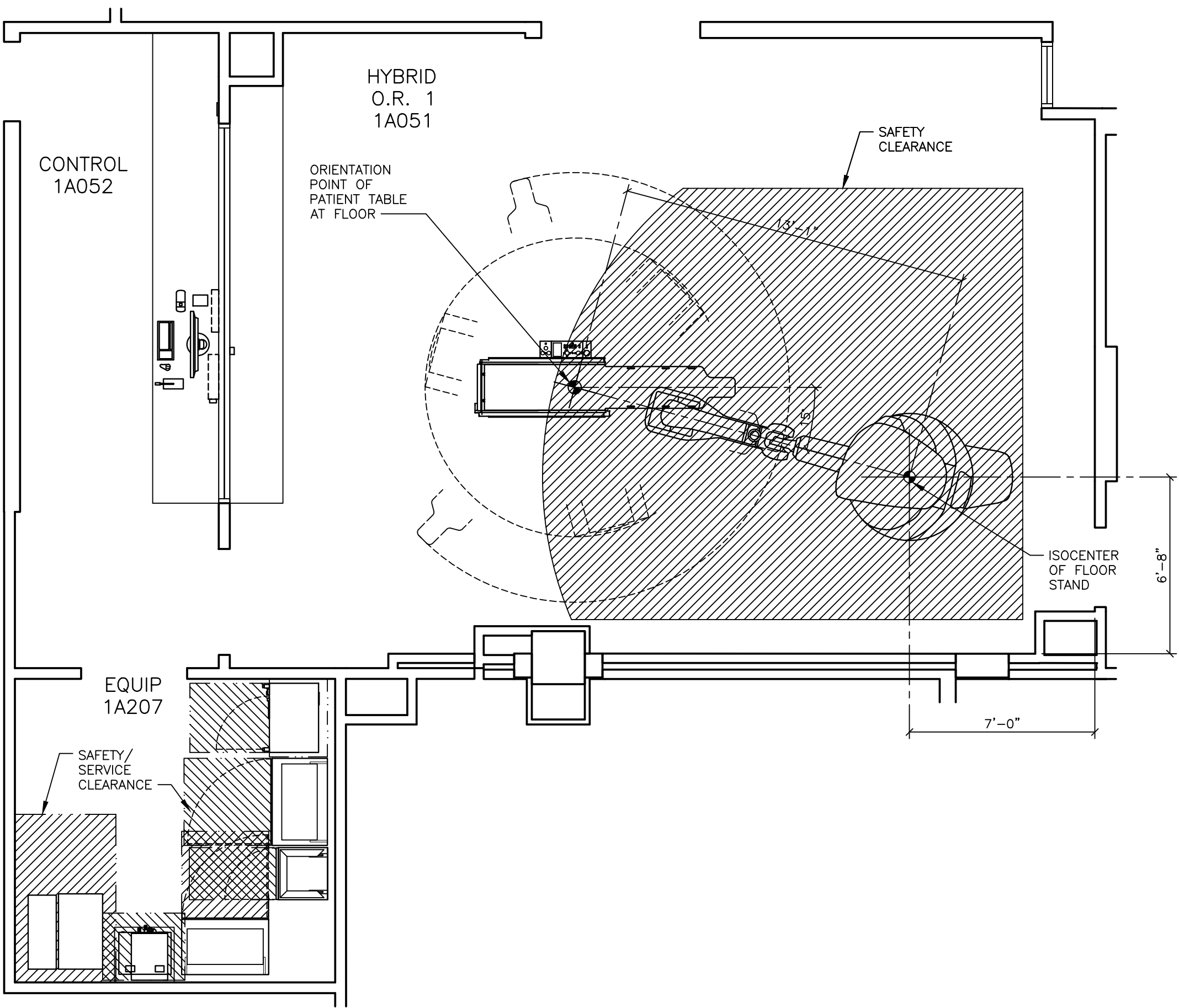
ATTENTION:

- THIS DRAWING IS DESIGNED TO CONFORM TO FEATURES AND EQUIPMENT REQUIREMENTS PRESENTED AT THE TIME OF THEIR PREPARATION. SINCE BOTH THESE FACTORS ARE SUBJECT TO DESIGN MODIFICATION, THEY ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES.

- THIS SET OF PLANS REPRESENTS A COMPLETE SET OF DETAILS AND SHOULD NOT BE SEPARATED.

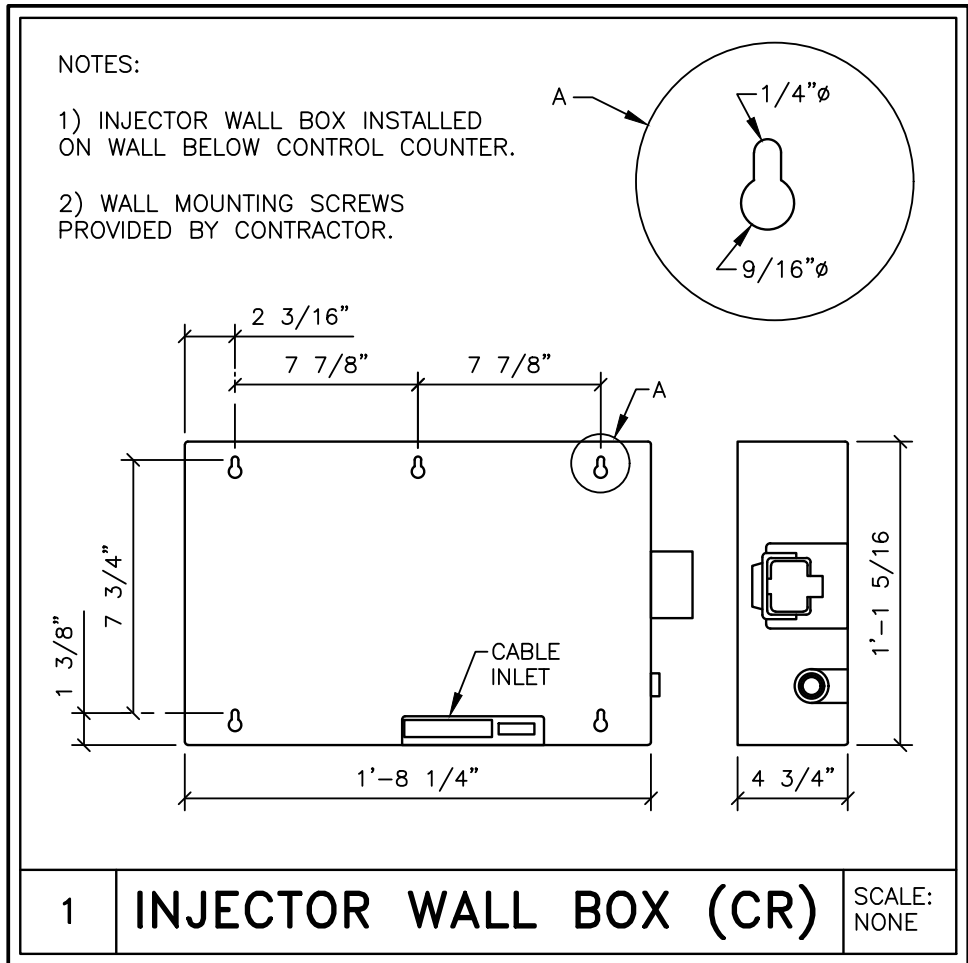
- IT IS RECOMMENDED THAT THE SIEMENS DRAWINGS BE INCORPORATED WITH THE CONSTRUCTION DOCUMENTS FOR REFERENCE.

— ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES.
— THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.



SAFETY/SERVICE CLEARANCE PLAN

SCALE: 1/4" = 1'-0"



CEILING NOTES

- 1) ALL CEILING MOUNTED LIGHT FIXTURES, MECHANICAL REGISTERS AND SPRINKLER HEADS SHALL BE FLUSH WITH FINISHED CEILING. SHALL BE OUTSIDE OF ALL HATCHED AREAS AND SHALL BE SPECIFIED BY THE ARCHITECT OF RECORD AND SUBSEQUENT CONSULTING ENGINEERS.
- 2) THE ACTUAL CEILING DESIGN AND COORDINATION OF LIGHTING AND MECHANICAL SYSTEMS SHALL BE THE RESPONSIBILITY OF THE ARCHITECT OF RECORD AND HIS SUBSEQUENT CONSULTING ENGINEERS.
- 3) THE CUSTOMER/CONTRACTOR SHALL BE RESPONSIBLE FOR FABRICATING, SUPPLYING AND INSTALLING ALL LIGHT, MECHANICAL AND STRUCTURAL SUPPORTING SYSTEMS. SIEMENS MEDICAL SOLUTIONS INC. IS ONLY RESPONSIBLE FOR THE SUPPLYING, INSTALLING AND CALIBRATION OF SMS EQUIPMENT AS SPECIFIED ON THE EQUIPMENT SCHEDULE AS SHOWN ON SHEET A-101.
- 4) ALL ELECTRICAL AND STRUCTURAL SYSTEMS SHOWN ON THE REFLECTED CEILING PLAN HAVE BEEN COORDINATED WITH THE EQUIPMENT LOCATIONS AS SHOWN ON THE 1/4" SCALE ARCHITECTURAL EQUIPMENT PLAN (SHEET A-101). ANY CHANGES TO THE SMS EQUIPMENT CONFIGURATION AS SHOWN, DUE TO PLACEMENT OF LIGHTING, STRUCTURAL, ELECTRICAL AND MECHANICAL SYSTEMS, MUST BE APPROVED IN WRITING BY THE SMS PROJECT MANAGER PRIOR TO THE COMPLETION OF CONSTRUCTION DOCUMENTS.

CEILING
HEIGHT
RANGE

9'-1 1/16" - 10'-2"

RECOMMENDED
CEILING
HEIGHT

9'-6"

PROJECT MANAGER: MARK BUXTON
TEL: (417) 576-7820 EXT:
VMAIL:
FAX:
EMAIL: MARK.BUXTON@SIEMENS-HEALTHINEERS.COM

SIEMENS

ST LUKES EAST LEES SUMMIT

100 NE SAINT LUKES BLVD, LEES SUMMIT, MO 64086
HYBRID OR 1 - ARTIS PHENO SURGERY PRO

PROJECT #:

2102395

SHEET:

A-102

SYM	DATE	DESCRIPTION
△	06/20/22	REMOVED INJECTOR PER SALES ORDER
△	06/08/22	PRELIMINARY VERSION BY DATED 04/19/22 APPROVED BY CUSTOMER FOR FINALS
-ISSUE BLOCK-		

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SCALE: AS NOTED REF. #: 30267218

SHEET 2 OF 7 DATE: 06/08/22

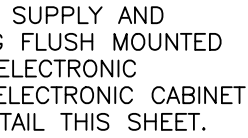
DRAWN BY: E. SANDIFER

ATTENTION:

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-THIS SET OF PLANS REPRESENTS A COMPLETE SET OF DETAILS AND SHOULD NOT BE SEPARATED.

-IT IS RECOMMENDED THAT THE SIEMENS DRAWINGS BE INCORPORATED WITH THE CONSTRUCTION DOCUMENTS FOR REFERENCE.

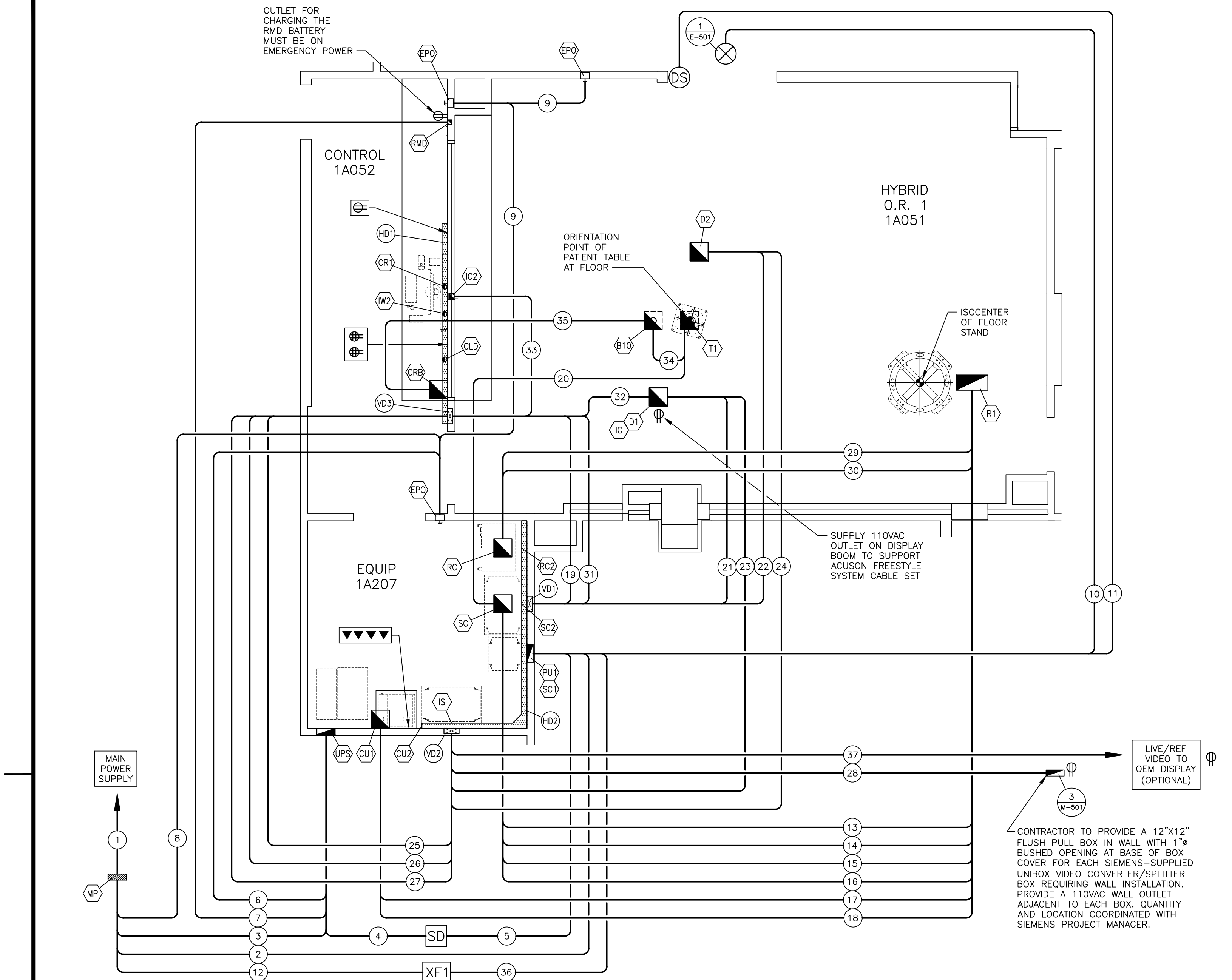
-ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES.
-THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.



S-101

OEM BOOM NOTE: FOR SYSTEMS WITH HARD CEILINGS, REMOVABLE OR DROP DOWN ACCESS PANELS ARE REQUIRED FOR INSTALLATION AND SERVICE OF SYSTEM CABLES. ACCESS MUST BE LARGE ENOUGH AND LOCATED SO THAT SERVICE PERSONNEL CAN ACCESS ALL SIDES OF DUCT OR PULL BOX. ACCESS PANELS ARE TO BE LOCATED BY CUSTOMER/CONTRACTOR IN COORDINATION WITH SIEMENS PROJECT MANAGER AT EVERY BOOM LOCATION, ABOVE CEILING CABLE DUCT JUNCTION, OR PULL BOX LOCATION.

NOTE: THE UPS IS SUPPLIED AND DELIVERED TO CUSTOMER'S LOADING DOCK BY SIEMENS. CUSTOMER'S ELECTRICIAN IS RESPONSIBLE FOR MOVING FROM LOADING DOCK TO FINAL LOCATION AND COMPLETING ALL CONNECTIONS. THE UPS MUST NOT BE LOCATED IN A PATIENT ENVIRONMENT. SIEMENS PROJECT MANAGER WILL SCHEDULE UPS STARTUP PRIOR TO DELIVERY OF SIEMENS IMAGING EQUIPMENT.



SCALE: 1/4" = 1'-0"

SYMBOLS	
ALL MAY NOT APPLY	
	CIRCUIT BREAKER BY CUSTOMER/CONTRACTOR
	OPENING IN RACEWAY OR TRENCH/DUCT
	PULLBOX IN (FLOOR/WALL/CEILING)
	OPENING IN ACCESS FLOORING
	WARNING LIGHT (X-RAY ON)
	DOOR SAFETY SWITCH
	(EPO) EMERGENCY POWER OFF BUTTON
	TRENCH DUCT
	CEILING DUCT
	UNDER FLOOR DUCT
	SURFACE DUCT
	VERTICAL DUCT
	ETHERNET CONNECTION TO CUSTOMER'S INFORMATION SYSTEMS NETWORK (VERIFY WITH SMS PROJECT MANAGER).
	110 VOLT, 20 AMP, HOSPITAL GRADE DUPLEX OUTLET
	110 VOLT, 20 AMP, HOSPITAL GRADE QUAD OUTLET

CEILING HEIGHT RANGE	RECOMMENDED CEILING HEIGHT
9'-1 1/16" - 10'-2"	9'-6"

SYM	DATE	DESCRIPTION
	06/20/22	REMOVED INJECTOR PER SALES ORDER
	06/08/22	PRELIMINARY VERSION BY DATED 04/19/22 APPROVED BY CUSTOMER FOR FINALS
-ISSUE BLOCK-		

PROJECT MANAGER: MARK BUXTON TELEPHONE: (417) 576-7820 FAX: (417) 576-7820 EMAIL: MARK.BUXTON@SIEMENS-HEALTHINEERS.COM	
PROJECT #: 2102395	
SHEET: E-101	
SHEET OF 7 DATE: 06/08/22	
DRAWN BY: E. SANDIFER	

ELECTRICAL LEGEND

SYM	SIZE	DESCRIPTION	REMARKS
	AS REQUIRED	PULL BOX MOUNTED FLUSH IN FINISHED FLOOR WITH REMOVABLE TOP COVER WITH 4" BUSHED OPENING.	TABLE ACCESSORIES
	3"	BUSHED OPENING IN TOP OF HORIZONTAL DUCT "HD1".	C-Room LD INPUTS
	3"	BUSHED OPENING IN TOP OF HORIZONTAL DUCT "HD1".	CONTROL ROOM DISTRIBUTOR
	AS REQUIRED	PULL BOX MOUNTED FLUSH IN FINISHED FLOOR WITH REMOVABLE TOP COVER. CONNECT TO RACEWAY "HD1".	CONTROL ROOM BOX
	AS REQUIRED	PULL BOX MOUNTED FLUSH IN FINISHED FLOOR WITH REMOVABLE TOP COVER AND (1) 5" BUSHING IN CENTER OF REMOVABLE COVER FOR CABLE EXIT.	COOLING UNITS
	----	OPENING AT END OF RACEWAY "HD2"	COOLING UNITS
	AS REQUIRED	PULL BOX MOUNTED ABOVE FINISHED CEILING WITH REMOVABLE BOTTOM COVER WITH 4" BUSHED OPENING.	LARGE DISPLAY 1
	AS REQUIRED	PULL BOX MOUNTED ABOVE FINISHED CEILING WITH REMOVABLE BOTTOM COVER WITH 4" BUSHED OPENING.	LARGE DISPLAY 2
	----	EMERGENCY OFF BUTTONS FOR CIRCUIT BREAKERS. EPO'S MUST PREVENT RESETTING OF CIRCUIT BREAKERS WHEN IN OFF POSITION. EPO'S MUST BE RECESSED OR SHIELDED. FINAL LOCATION DETERMINED BY CUSTOMER.	EMERGENCY POWER OFF
	----	FIXPOINT DESIGNATION, SAME PULL BOX AS "D1".	INTERCOM COMFORT MIC
	AS REQUIRED	PULL BOX MOUNTED FLUSH IN FINISHED WALL ABOVE CONTROL WINDOW	INTERCOM COMFORT SPEAKER
	6"	BUSHED OPENING IN HORIZONTAL DUCT "HD2" COVER AT FLOOR LINE	IMAGE SYSTEM
	3"	BUSHED OPENING IN TOP OF HORIZONTAL DUCT "HD1".	OPERATION IN CONTROL RM
	----	MAIN PANEL WITH MAIN BREAKER. LOCATION DETERMINED BY CUSTOMER/CONTRACTOR. SEE "POWER SCHEDULE"	BREAKER PANEL
	21" X 10"	CUSTOM PULL BOX MOUNTED FLUSH IN FINISHED FLOOR WITH DEPTH AS REQUIRED FOR BURIED CONDUIT CONNECTIONS. SEE DETAIL 1, SHEET E-102.	FLOOR STAND
	AS REQUIRED	PULL BOX MOUNTED FLUSH IN FINISHED FLOOR WITH 6" BUSHED OPENING IN TOP COVER.	FLOOR STAND CABINET
	6"	BUSHED OPENING IN HORIZONTAL DUCT "HD2" COVER AT FLOOR LINE	FLOOR STAND CABINET
	AS REQUIRED	SINGLE-GANG RJ45 JACK	UPS REMOTE DISPLAY
	AS REQUIRED	PULL BOX MOUNTED FLUSH IN FINISHED FLOOR WITH REMOVABLE TOP COVER WITH (2) 6" BUSHED OPENINGS.	SYSTEM CABINET
	AS REQUIRED	PULL BOX MOUNTED FLUSH IN FINISHED WALL AT FLOOR LINE. CONNECT BOX TO RACEWAY "HD2".	SYSTEM CABINET
	6"	BUSHED OPENING IN HORIZONTAL DUCT "HD2" COVER AT FLOOR LINE	SYSTEM CABINET
	30A	3-PHASE (PLUS N,G) 30A, 600V HD FUSIBLE SERVICE DISCONNECT LOCATED AT EYE-LEVEL, WITHIN 10' OF SIEMENS SYSTEM CABINET (SC1) AND 30A RKS FUSES. SEE POWER SCHEDULE.	UPS SERVICE DISCONNECT
	AS REQUIRED	PULL BOX MOUNTED FLUSH IN FINISHED FLOOR WITH REMOVABLE TOP COVER WITH 5" BUSHED OPENING. SEE DETAIL 4, SHEET S-101 FOR TABLE ANCHOR PATTERN. DO NOT CUT CONCRETE WITHIN 3 1/2" OF TABLE ANCHORS.	TABLE
	AS REQUIRED	PULL BOX MOUNTED FLUSH IN FINISHED WALL AT FLOOR LINE. PROVIDE BOX WITH REMOVABLE FRONT COVER WITH 4" BUSHED OPENING.	15KVA UPS
	1.5KVA	STEP-DOWN TRANSFORMER. SEE POWER SCHEDULE.	XFMR FOR TABLE OUTLET
	3 1/2" X 10"	HORIZONTAL DUCT MOUNTED ON FINISHED WALL AT FLOOR LINE. PROVIDE DUCT WITH REMOVABLE FRONT COVER. CONNECT TO VERTICAL DUCT "VD3" AS SHOWN.	HORIZONTAL WALL DUCT
	3 1/2" X 18"	HORIZONTAL DUCT MOUNTED ON FINISHED WALL AT FLOOR LINE. PROVIDE DUCT WITH REMOVABLE FRONT COVER. CONNECT TO VERTICAL DUCTS "VD1" AND "VD2" AS SHOWN.	HORIZONTAL WALL DUCT
	3 1/2" X 10"	VERTICAL DUCT MOUNTED FLUSH IN FINISHED WALL. BEGIN DUCT AT FLOOR LINE AND EXTEND UP WALL ABOVE FINISHED CEILING. PROVIDE JUNCTION BOX (SIZED BY E.C.) AT TOP OF DUCT FOR CONDUIT TRANSITIONS.	VERTICAL DUCT
	EC TO SIZE	CONDUIT FROM PANEL TO "MP"	SEE "POWER SCHEDULE"
	EC TO SIZE	CONDUIT FROM "MP" TO "PU1"	SEE "POWER SCHEDULE"
	EC TO SIZE	CONDUIT FROM "MP" TO "UPS" WITH FLEX CONDUIT FROM UPS BOX TO UPS CABINET.	SEE "POWER SCHEDULE"
	EC TO SIZE	CONDUIT FROM "UPS" TO "SD" WITH FLEX CONDUIT FROM UPS BOX TO OUTPUT XFMR CABINET.	SEE "POWER SCHEDULE"
	EC TO SIZE	CONDUIT FROM "SD" TO "SC1"	SEE "POWER SCHEDULE"
	3/4"	CONDUIT FROM "UPS" TO "EPO" WITH FLEX CONDUIT FROM UPS BOX TO UPS CABINET.	SEE "POWER SCHEDULE"
	3/4"	CONDUIT FROM "RMD" TO "UPS"	SEE "POWER SCHEDULE"
	3/4"	CONDUIT FROM "MP" TO "EPO"	SEE "POWER SCHEDULE"
	EC TO SIZE	CONDUIT FROM "EPO" TO "EPO"	SEE "POWER SCHEDULE"
	EC TO SIZE	CONDUIT FROM "SC1" TO "WL"	SEE "POWER SCHEDULE"
	EC TO SIZE	CONDUIT FROM "SC1" TO "DS"	SEE "POWER SCHEDULE"
	EC TO SIZE	CONDUIT FROM "MP" TO "XF1" (OPTIONAL)	SEE "POWER SCHEDULE"
	2"	CONDUIT FROM "R1" TO "SC" (PU1) IN FLOOR	MAX. CONDUIT LENGTH 50'
	(2) 3"	CONDUIT FROM "R1" TO "SC" (PU1) IN FLOOR	MAX. CONDUIT LENGTH 50'
	2"	CONDUIT FROM "R1" TO "SC" (SC1) IN FLOOR	MAX. CONDUIT LENGTH 47'
	4"	CONDUIT FROM "R1" TO "SC" (SC1) IN FLOOR	MAX. CONDUIT LENGTH 48'
	3"	CONDUIT FROM "R1" TO "CU1" IN FLOOR FOR LIQUID COOLING HOSES	MAX. CONDUIT LENGTH 90'
	2"	CONDUIT FROM "R1" TO "CU1" IN FLOOR FOR LIQUID COOLING HOSES	MAX. CONDUIT LENGTH 42'
	2"	CONDUIT FROM "VD1" (SC1) TO "VD3" (CR1)	MAX. CONDUIT LENGTH 31'
	(2) 3"	CONDUITS FROM "SC" (SC1) TO "T1" IN FLOOR	MAX. CONDUIT LENGTH 40'
	3"	CONDUIT FROM "VD1" (SC1) TO "D1"	MAX. CONDUIT LENGTH 50'
	3"	CONDUIT FROM "VD1" (SC1) TO "D2"	MAX. CONDUIT LENGTH 50'
	2 1/2"	CONDUIT FROM "VD2" (IS) TO "D1"	MAX. CONDUIT LENGTH 62'
	2 1/2"	CONDUIT FROM "VD2" (IS) TO "D2"	MAX. CONDUIT LENGTH 62'
	(2) 2"	CONDUITS FROM "VD2" (IS) TO "VD3" (CR1)	MAX. CONDUIT LENGTH 28'
	2 1/2"	CONDUITS FROM "VD2" (IS) TO "VD3" (CR1)	MAX. CONDUIT LENGTH 57'
	(2) 3"	CONDUITS FROM "VD2" (IS) TO "VD3" (CLD)	MAX. CONDUIT LENGTH 80'
	VARIES	CONDUIT(S) FROM "VD2" (IS) TO CUSTOMER SOURCES	MAX. CONDUIT LENGTH 80'
	6"	CONDUIT FROM "RC" TO "R1" IN FLOOR	MAX. CONDUIT LENGTH 40'
	3"	CONDUIT FROM "RC" TO "R1" IN FLOOR	MAX. CONDUIT LENGTH 40'
	2"	CONDUIT FROM "VD1" (SC1) TO "VD3" (W2)	MAX. CONDUIT LENGTH 31'
	3/4"	CONDUIT FROM "VD3" TO "IC"	MAX. CONDUIT LENGTH 62'
	3/4"	CONDUIT FROM "VD3" TO "IC2"	MAX. CONDUIT LENGTH 62'
	3"	CONDUIT FROM "T1" TO "B10" IN FLOOR	MAX. CONDUIT LENGTH 62'
	3"	CONDUIT FROM "CRB" TO "B10" IN FLOOR (OPTION) (CUSTOMER PATIENT MONITORING)	MAX. CONDUIT LENGTH 62'
	2"	CONDUIT FROM "XF1" TO "SC1" (T1) (OPTIONAL TABLE POWER OUTLET)	MAX. CONDUIT LENGTH 60'
	1 1/2"	CONDUIT FROM "VD2" (IS) TO "CUSTOMER MONITOR" (LIVE+REF VIDEO TO OEM OPTION)	MAX. CONDUIT LENGTH 80'

ELECTRICAL NOTES

- 1) COMPLIANCE: ELECTRICAL WORK SHALL BE IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE (NECA-70), O.S.H.A. REGULATIONS, AS WELL AS APPLICABLE REGULATIONS OF CITY, COUNTY, STATE AND FEDERAL AGENCIES. PROVIDE MATERIALS AND EQUIPMENT THAT COMPLY WITH ANSI, IEEE AND NEMA STANDARDS AND ARE U.L. LISTED AND LABELED. THE CUSTOMER'S/CONTRACTOR'S WORK AND ALL EQUIPMENT INSTALLED SHALL COMPLY WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE ADOPTED/ENFORCED BY THE AUTHORITY HAVING JURISDICTION.
- 2) QUALITY ASSURANCE: THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD TO INSURE THAT THE NEW WORK WILL FIT INTO THE EXISTING STRUCTURE AS SHOWN ON THE DRAWINGS. SHOULD ANY CONDITIONS EXIST OR BE DISCOVERED THAT PREVENT THE INSTALLATION OF WORK AS SHOWN, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO FABRICATION OF EQUIPMENT, OR THE PERFORMANCE OF ANY WORK THAT MAY BE AFFECTED. DO NOT ALTER DRAWINGS, DIMENSIONS, OR SPECIFICATIONS IN ANY WAY WITHOUT CONTACTING AND RECEIVING WRITTEN CONFIRMATION FROM SIEMENS PROJECT MANAGER. ALL DIMENSIONS ARE FROM FINISHED SURFACES. CONDUIT AND PULL BOXES TO BE INSTALLED BY THE CUSTOMER/CONTRACTOR WITH LOCATIONS BEING FIELD VERIFIED BY THE SIEMENS PROJECT MANAGER.
- 3) POWER SUPPLY SOURCE: POWER SUPPLIES FOR SIEMENS HEALTHCARE EQUIPMENT SHALL BE FROM A MEDICAL IMAGING PANEL OR BUILDING SERVICE EQUIPMENT THAT IS A GROUNDING 3 OR 4-WIRE "WYE" SOURCE PER THE SPECIFIC EQUIPMENT OPERATION REQUIREMENTS. A DEDICATED CIRCUIT SHALL BE PROVIDED THAT IS KEPT ENTIRELY FREE AND INDEPENDENT OF ALL OTHER BUILDING WIRING. NO ELEVATORS, GENERATORS, PUMPS, HVAC OR SIMILAR EQUIPMENT SHALL BE CONNECTED TO THE SAME CIRCUIT OR MEDICAL IMAGING PANEL THAT SERVES THE SIEMENS HEALTHCARE EQUIPMENT. IF THE POWER SUPPLY SOURCE DOES NOT MEET THE SPECIFIC SIEMENS EQUIPMENT POWER REQUIREMENTS, THE CONTRACTOR SHALL PROVIDE THE NECESSARY EQUIPMENT REQUIRED TO ESTABLISH THE POWER SUPPLY IN ACCORDANCE WITH THE REQUIRED POWER SUPPLY PARAMETERS OF THE SIEMENS EQUIPMENT. THE CONTRACTOR SHALL COORDINATE THIS WORK WITH THE CUSTOMER AND/OR UTILITY COMPANY FIELD REPRESENTATIVE.
- 4) WORK FURNISHED BY CUSTOMER/CONTRACTOR: WORK NOT PROVIDED BY SIEMENS HEALTHCARE BUT SHOWN ON DRAWINGS TO BE FURNISHED AND INSTALLED BY CUSTOMER/CONTRACTOR INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING, UNLESS NOTED OTHERWISE: ELECTRICAL RACEWAYS AND DUCTS, WIRING TROUGHS, PULL BOXES, CONDUITS, CIRCUIT BREAKERS, ACCESS PANELS, EMERGENCY OFF BUTTONS, DOOR SWITCHES, WARNING LIGHTS, WIRING DEVICES, CONNECTORS, LIGHTING EQUIPMENT AND GROUNDING.
- 5) RACEWAY AND CONDUIT NOTES: ALL CONDUITS SHALL BE INSTALLED IN COMPLIANCE WITH THE CURRENT ENFORCED EDITION OF THE NATIONAL ELECTRICAL CODE.
CONDUIT BODIES SHALL NOT BE USED, WHERE A CONDUIT ENTERS A BOX, FITTING, OR OTHER ENCLOSURE, AN INSULATED THROAT CONNECTOR SHALL BE PROVIDED TO PROTECT THE WIRE FROM ABRASION. ALL CONNECTORS FOR EMT SHALL BE COMPRESSION OR DOUBLE SET SCREW TYPE.
KEEP RACEWAYS AT LEAST 6 INCHES AWAY FROM PARALLEL RUNS OF FLUES OR STEAM AND HOT WATER PIPES. INSTALL RACEWAYS RUNS ABOVE WATER AND STEAM PIPES PROVIDED THAT CABLE RUN DISTANCES ARE MAINTAINED. USE TEMPORARY CLOSURES TO PREVENT FOREIGN MATTER FROM ENTERING RACEWAY.
CONDUIT RUNS ARE SHOWN SCHEMATICALLY. INSTALL CONDUIT WITH A MINIMUM OF BENDS IN THE SHORTEST PRACTICAL DISTANCE CONSIDERING THE BUILDING CONSTRUCTION AND OBSTRUCTIONS, EXCEPT AS OTHERWISE INDICATED. THE CONTRACTOR SHALL MAKE CERTAIN THAT ANY CONDUIT/RACEWAY RUNS CONTAINING SIEMENS HEALTHCARE CABLES DO NOT EXCEED THE SPECIFIED MAXIMUM DISTANCES AS SHOWN ON THE ELECTRICAL DETAILS. LISTED CONDUIT SIZES FOR SIEMENS-SUPPLIED CABLES MUST BE MAINTAINED IN ORDER TO ENABLE THE TOTAL CABLE BUNDLE INCLUDING CONNECTORS TO BE PULLED THROUGH WITHOUT DAMAGE.
PROVIDE ENCLOSED METAL WIRE DUCT RACEWAY SYSTEM WHERE SHOWN ON DRAWINGS WITH DIVIDERS TO SEPARATE THE DUCT INTO TWO OR THREE SEPARATE COMPARTMENTS AS SHOWN ON THE SIEMENS PLANS (FOR POWER AND SIEMENS HEALTHCARE CABLES). DIVIDERS AND CROSSOVER PIECES TO BE PROVIDED AS NECESSARY. THE CABLE TO CABLE AS WELL AS THE CIRCUIT TO CIRCUIT SEPARATION REQUIREMENT WAS EVALUATED DURING THE UL SYSTEM CERTIFICATION OF THE EQUIPMENT. ADDITIONAL SEPARATION OF THE SYSTEM CABLE ASSEMBLIES INTO SEPARATE OR PARTITIONED RACEWAYS, UNLESS OTHERWISE NOTED, IS NOT NECESSARY TO INSURE SEPARATION OF CIRCUITS.
PROVIDE WIRE DUCT/RACEWAY WITH ACCESSIBLE REMOVABLE COVERS. LOCATIONS OF BUILDING MATERIAL OPENINGS (I.E. ACCESS PANELS) TO BE CUT IN FIELD ARE TO BE COORDINATED WITH THE DRAWING REQUIREMENTS AND BUILDING STRUCTURE. THOSE THAT ARE NOT INDICATED OR INTERFERE WITH BUILDING ELEMENTS SHALL BE COORDINATED WITH SIEMENS PROJECT MANAGER. ELECTRICAL PULL BOXES AND RACEWAY COVERS SHALL BE INSTALLED IN A MANNER TO ALLOW ACCESSIBILITY FOR INSTALLATION AND MAINTENANCE. CONTRACTORS MUST PROVIDE PULL STRINGS FOR ALL CONDUIT AND WIRE DUCT/RACEWAY. IN-FLOOR TRENCH DUCT AND FLUSH FLOOR BOXES SHALL BE PROVIDED WITH FULLY GASKETED REMOVABLE COVERS.
WHEN JUNCTION BOXES AND WIRE DUCT/RACEWAY ARE MOUNTED HIGHER THAN 14 FEET ABOVE FINISHED FLOOR, THE ELECTRICAL CONTRACTOR SHALL PROVIDE TWO ELECTRICIANS TO HELP THE SIEMENS INSTALLERS PULL SIEMENS SUPPLIED CABLES AT CUSTOMER'S EXPENSE. WHEN JUNCTION BOXES AND WIRE DUCT/RACEWAY ARE MOUNTED ABOVE A HARD CEILING (I.E. SHEET ROCK), A 24" X 24" ACCESS PANEL IS REQUIRED AT EACH JUNCTION BOX AND WITHIN 2 FEET OF EACH RACEWAY TRANSITION (SUCH AS A 90 DEGREE ELBOW OR TEE) IN DUCT/RACEWAY. THERE MUST BE FREE AND CLEAR ACCESS TO JUNCTION BOXES AND WIRE DUCT/RACEWAY. WHEN ACCESS PANELS ARE LOCATED MORE THAN 3 FEET FROM JUNCTION BOXES AND WIRE DUCT/RACEWAY THE ELECTRICAL CONTRACTOR SHALL PROVIDE TWO ELECTRICIANS TO HELP SIEMENS INSTALLERS PULL SIEMENS SUPPLIED CABLES AT CUSTOMER'S EXPENSE.
- 6) WIRING: ALL WIRING INSTALLED SHALL BE 600 VOLT CLASS, STRANDED TYPE THHN/THWN-2, SINGLE CONDUCTOR ANNEALED COPPER FOR A MAXIMUM OPERATING TEMPERATURE OF 90° C (194° F). SIZED AS INDICATED, INSTALLED IN METAL RACEWAYS. THE CUSTOMER/CONTRACTOR SHALL LEAVE A MINIMUM 10 FEET OF WIRE TAILS AT ALL OUTLET POINTS WITH WIRE IDENTIFICATION TAGGED AT BOTH ENDS FOR FINAL CONNECTION BY THE CUSTOMER/ELECTRICAL CONTRACTOR.
- 7) SHORT CIRCUIT REQUIREMENTS: ALL CIRCUIT BREAKERS SUPPLIED FOR THE SIEMENS EQUIPMENT REQUIREMENTS SHALL BE RATED HIGHER THAN THE SHORT CIRCUIT AVAILABLE AT THE TERMINUS OF THE ELECTRICAL EQUIPMENT AS DETERMINED BY THE ENGINEER OF RECORD, BUT NOT LESS THAN 35,000A RMS SYMMETRICAL AT 480V, 3-PHASE, 60 HERTZ. THE CONTRACTOR SHALL OBTAIN THE CORRECT SHORT CIRCUIT CURRENT RATING OF ALL THE NEW EQUIPMENT FOR INSTALLATION FROM THE ENGINEER OF RECORD.

CONDUIT LENGTH CALCULATIONS

IF SITE-SPECIFIC CONDITIONS EXCEED THE FOLLOWING ASSUMED VALUES, THEN ADDITIONAL LENGTH MUST BE SUBTRACTED BY THE ELECTRICAL CONTRACTOR FROM THE MAXIMUM CONDUIT LENGTHS LISTED.

IF DUCT LOCATIONS ARE ALTERED FROM THE SHOWN LAYOUT, IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO RECALCULATE THE MAXIMUM CONDUIT LENGTHS.

ASSUMED VALUES USED IN CALCULATING STATED MAXIMUM CONDUIT LENGTHS:

VERTICAL DUCTS - 12'-0"

FLOOR PENETRATIONS - 3'-0"

ATTENTION:

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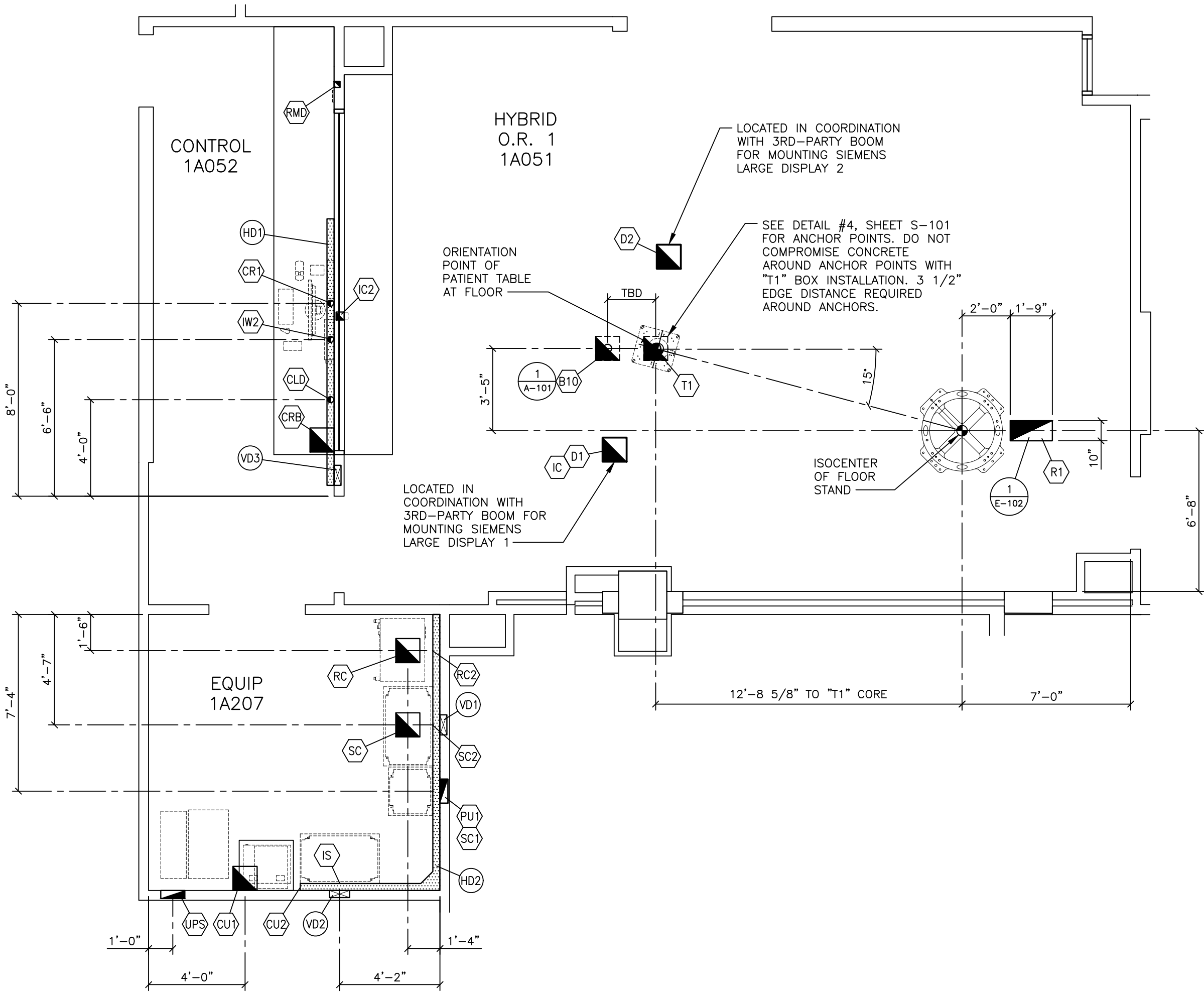
- THIS SET OF PLANS REPRESENTS A COMPLETE SET OF DETAILS AND SHOULD NOT BE SEPARATED.

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- ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES.

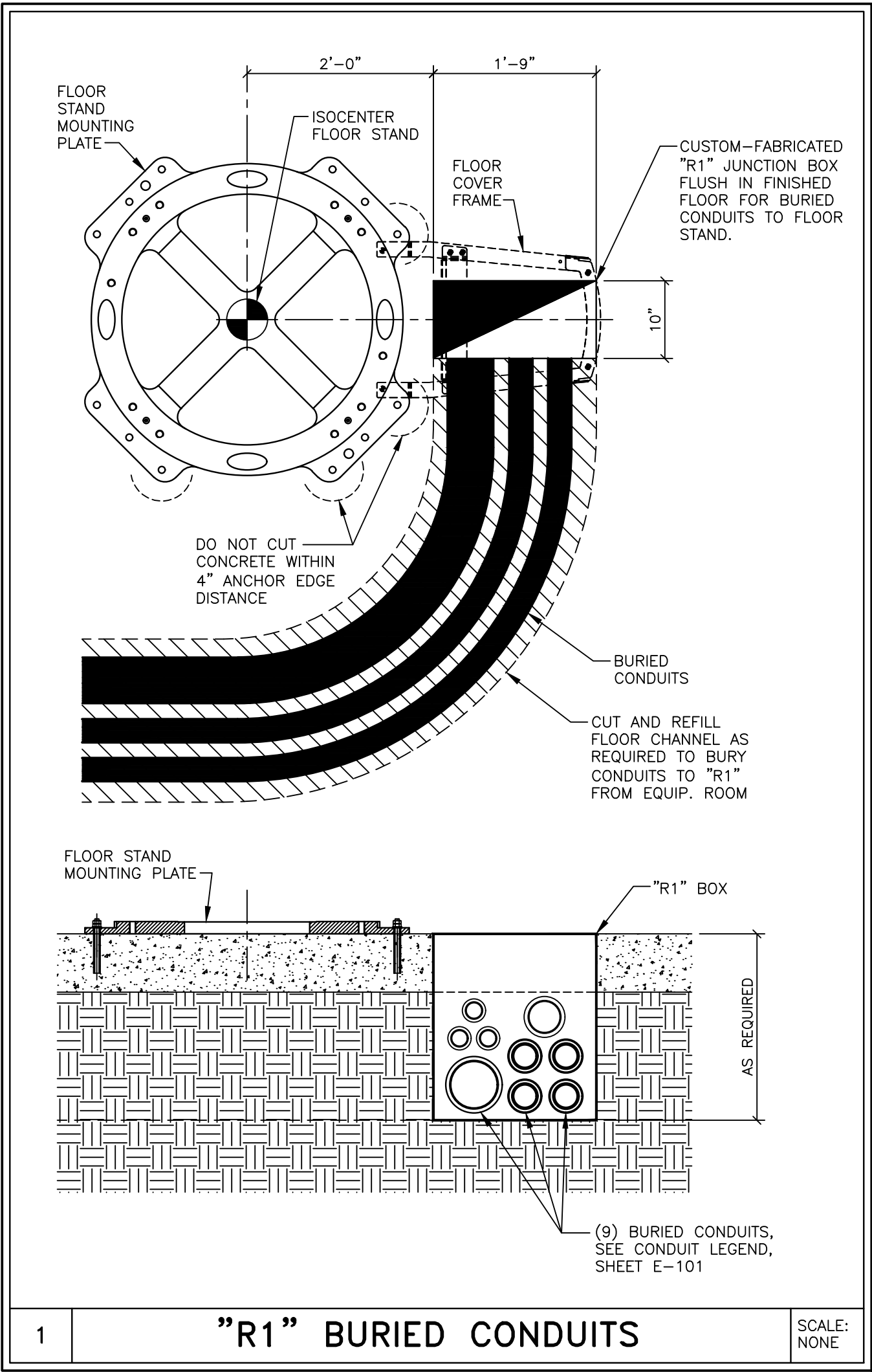
- THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

ARTIS PHENO
REV. 31



ELECTRICAL DIMENSION PLAN

SCALE: 1/4" = 1'-0"



CONTRACTOR SUPPLIED CABLES

FROM	VIA	TO	DESCRIPTION	REMARKS
PANEL	1	MP	ELECTRICAL CONTRACTOR TO SIZE PLUS GROUND	SEE "POWER SCHEDULE"
MP	2	PU1	3#2, 1#2 GROUND AND CONNECT	SEE "POWER SCHEDULE"
MP	3	UPS	ELECTRICAL CONTRACTOR TO SIZE	SEE "POWER SCHEDULE"
UPS	4	SD	ELECTRICAL CONTRACTOR TO SIZE PLUS GROUND	SEE "POWER SCHEDULE"
SD	5	SC1	ELECTRICAL CONTRACTOR TO SIZE PLUS GROUND (MAX #6 AWG)	SEE "POWER SCHEDULE"
UPS	6	EPO	2#12	SEE "POWER SCHEDULE"
RMD	7	UPS	CAT 5 NETWORK CABLE, UP TO 328'	SEE "POWER SCHEDULE"
MP	8	EPO	2#12	SEE "POWER SCHEDULE"
EPO	9	EPO	4#12, PLUS GROUND	SEE "POWER SCHEDULE"
SC1	10	WL	14-18 AWG	SEE "LIGHTING DETAIL" SHEET E-501
SC1	11	DS	24V SIGNAL, 2#14-18 AWG	DOOR SWITCH
MP	12	XF1	EC TO SIZE (OPTIONAL TABLE POWER OUTLET)	SEE "POWER SCHEDULE"

SIEMENS SUPPLIED CABLES

FROM	VIA	TO	DESCRIPTION	REMARKS
R1	13,SC	PU1		MAXIMUM LENGTH 57'
R1	14,SC	PU1	(2) HIGH VOLTAGE CABLES	MAXIMUM LENGTH 57'
R1	15,SC	SC1		MAXIMUM LENGTH 51'
R1	16,SC	SC1		MAXIMUM LENGTH 52'
R1	17	CU1	LIQUID COOLING HOSES (KLIVER TUBE COOLER)	MAXIMUM LENGTH 96'
R1	18	CU1	LIQUID COOLING HOSES (FD COOLER)	MAXIMUM LENGTH 52'
SC1	19,VD1,VD3,HD1	CR1	FOR CONTROL ROOM OPTIONS (CONTROL MODULES, FOOT SWITCH, DISPLAY, ECC)	MAXIMUM LENGTH 62'
SC1	20,SC	T1		MAXIMUM LENGTH 45'
SC1	HD2	CU1	KLIVER TUBE COOLER	MAXIMUM LENGTH 98'
SC1	HD2	CU2	FD COOLER	MAXIMUM LENGTH 32'
SC1	CABINET BASE	PU1		MAXIMUM LENGTH 16'
SC1	HD2	IS		MAXIMUM LENGTH 26'
SC1	21,VD1	D1	LARGE DISPLAY 1	MAXIMUM LENGTH 62'
SC1	22,VD1	D2	LARGE DISPLAY 2	MAXIMUM LENGTH 62'
IS	23,VD2	D1	LARGE DISPLAY 1	MAXIMUM LENGTH 75'
IS	24,VD2	D2	LARGE DISPLAY 2	MAXIMUM LENGTH 75'
IS	25,VD2,VD3,HD1	CR1		MAXIMUM LENGTH 59'
IS	26,VD2,VD3,HD1	CR1		MAXIMUM LENGTH 88'
T1	CONDUIT 20	IS	CAT AND FIBER CABLES	MAXIMUM LENGTH 118'
T1	CONDUIT 20	IS	FIBER CABLES FOR LD INPUTS AT TABLE SIDE	MAXIMUM LENGTH 118'
IS	27,VD2,VD3,HD1	CLD	CUSTOMER LD INPUTS IN CONTROL ROOM	MAXIMUM LENGTH 118'
IS	28,VD2	CUSTOMER SOURCES	CUSTOMER LD INPUTS IN PROCEDURE ROOM	MAXIMUM LENGTH 118'
SC1	HD1	RC		MAXIMUM LENGTH 32'
RC	29	R1		MAXIMUM LENGTH 44'
RC	30	R1		MAXIMUM LENGTH 44'
SC1	31,VD1,VD3,HD1	IW2	2ND OPERATION IN CONTROL RM (HANDSWITCH, INJECTOR, ETC.)	MAXIMUM LENGTH 62'
VD3	32	IC	INTERCOM PROCEDURE ROOM MICROPHONE	MAXIMUM LENGTH 82'
VD3	33	IC2	INTERCOM PROCEDURE ROOM LOUDSPEAKER	MAXIMUM LENGTH 82'
T1	34	B10		
CRB	35	B10	CUSTOMER PATIENT MONITORING, ETC.	
XF1	36	T1	OPTIONAL TABLE POWER OUTLET	MAXIMUM LENGTH 91'
IS	37,VD2	CUSTOMER MONITOR	LIVE+REF VIDEO TO OEM (OPTION)	MAXIMUM LENGTH 110'

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— THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

ARTIS PHENO
REV. 31

CEILING HEIGHT RANGE	RECOMMENDED CEILING HEIGHT
9'-1 1/16" - 10'-2"	9'-6"

PROJECT MANAGER: MARK BUXTON
TELL: (417) 576-7820
VMAIL: EXT:
FAX:
EMAIL: MARK.BUXTON@SIEMENS-HEALTHINEERS.COM

SIEMENS

ST LUKES EAST LEES SUMMIT
100 NE SAINT LUKES BLVD, LEES SUMMIT, MO 64086
HYBRID OR 1 - ARTIS PHENO SURGERY PRO

PROJECT #:
2102395

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SCALE: AS NOTED

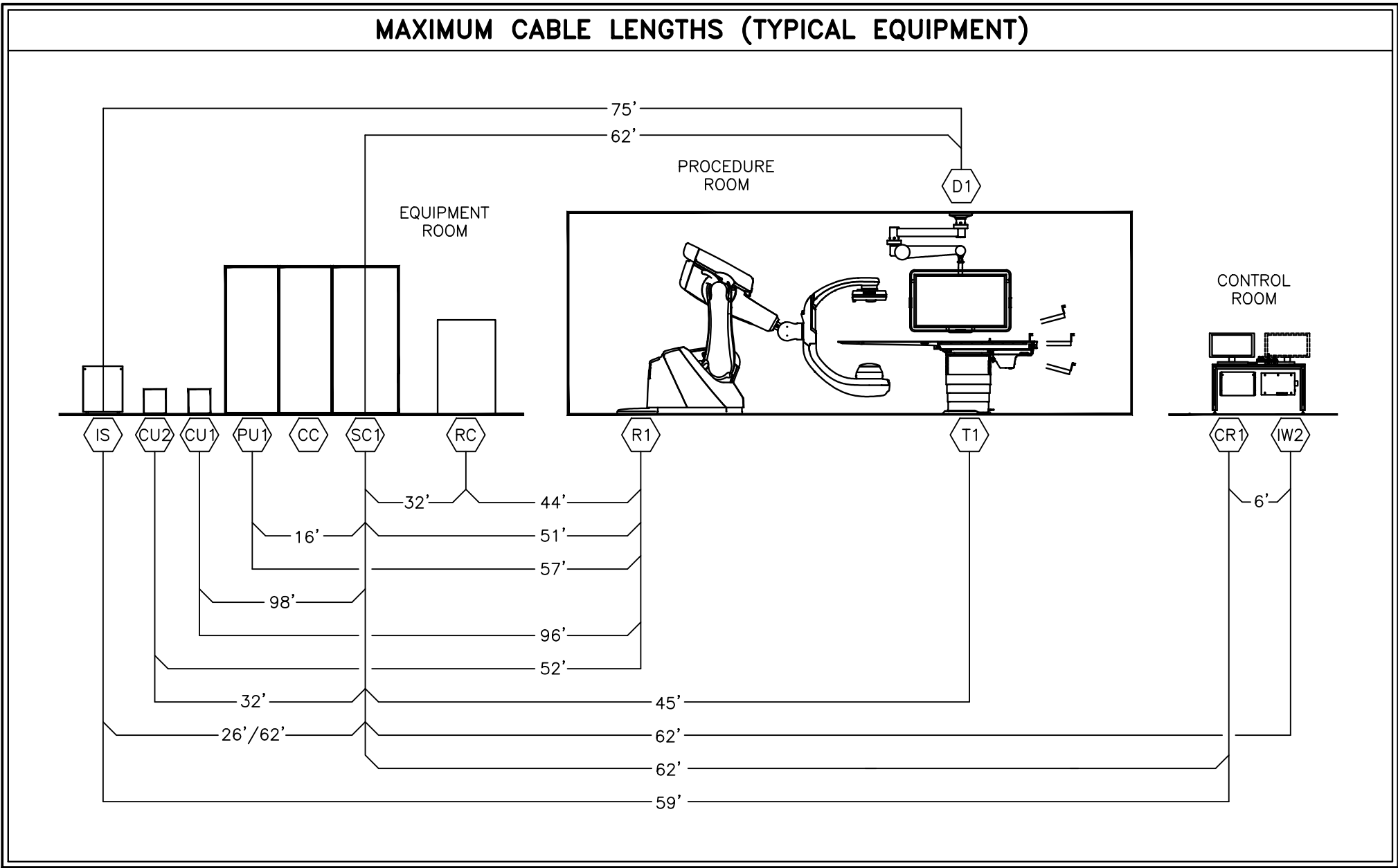
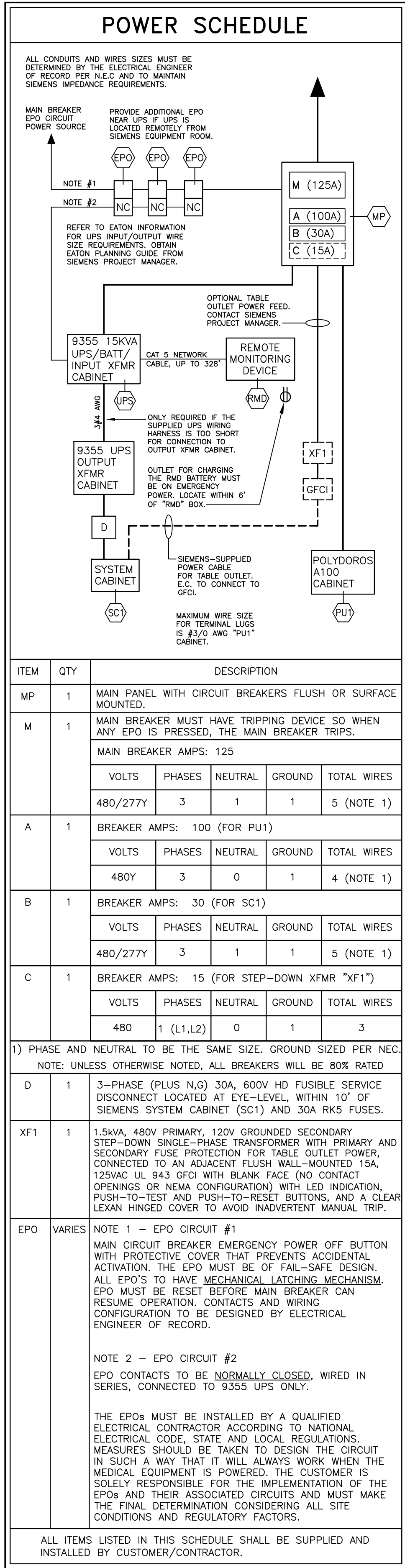
REF. # 30267218

DATE: 06/08/22

SHEET 5 OF 7

DRAWN BY: E. SANDIFER

SHEET: **E-102**



POWER REQUIREMENTS

WIRING SYSTEM: 480Y/277V, 3 PHASE, 5-WIRE, 60 HZ.

MINIMUM POWER SUPPLY:

IF AN ON-SITE TRANSFORMER IS REQUIRED TO OBTAIN OPERATING VOLTAGE, IT MUST BE OF SUFFICIENT CAPACITY AND CHARACTERISTICS TO MAINTAIN SUPPLY VOLTAGE AND IMPEDANCE REQUIREMENTS (TRANSFORMER AND CONDUCTORS).

EQUIPMENT	POWER REQUIREMENTS
X-RAY GENERATOR (PU1) MOMENTARY RATING: (RADIOGRAPHIC EXPOSURE)	162 KVA
X-RAY GENERATOR (PU1) LONG-TIME RATING: (FLUOROSCOPY)	8 KVA
SYSTEM CABINET (SC1) LONG-TIME RATING:	17.2 KVA
LINE IMPEDANCE	≤125 mΩ (A100 GENERATOR) ≤400 mΩ (ACX GENERATOR)

POWER QUALITY PARAMETERS

PARAMETER	VALUE
MAXIMUM LINE VOLTAGE VARIATION	±10% OF SYSTEM VOLTAGE
PHASE IMBALANCE:	2%
FREQUENCY VARIATION:	± 1 HZ

POWER SUPPLY NOTES:

- INCOMING POWER SUPPLIES FOR SIEMENS EQUIPMENT SHOULD BE DEDICATED (BACK TO SOURCE), ISOLATED AND INSULATED FROM ANY OTHER EQUIPMENT SUCH AS ELEVATORS, GENERATORS, HVAC SYSTEMS, ETC.
- SIEMENS HEALTHCARE REQUIRES THAT THE INCOMING POWER MEETS THE POWER QUALITY REQUIREMENTS.

GROUNDING NOTES

EQUIPMENT GROUNDING CONDUCTOR TO COMPLY WITH THE FOLLOWING:

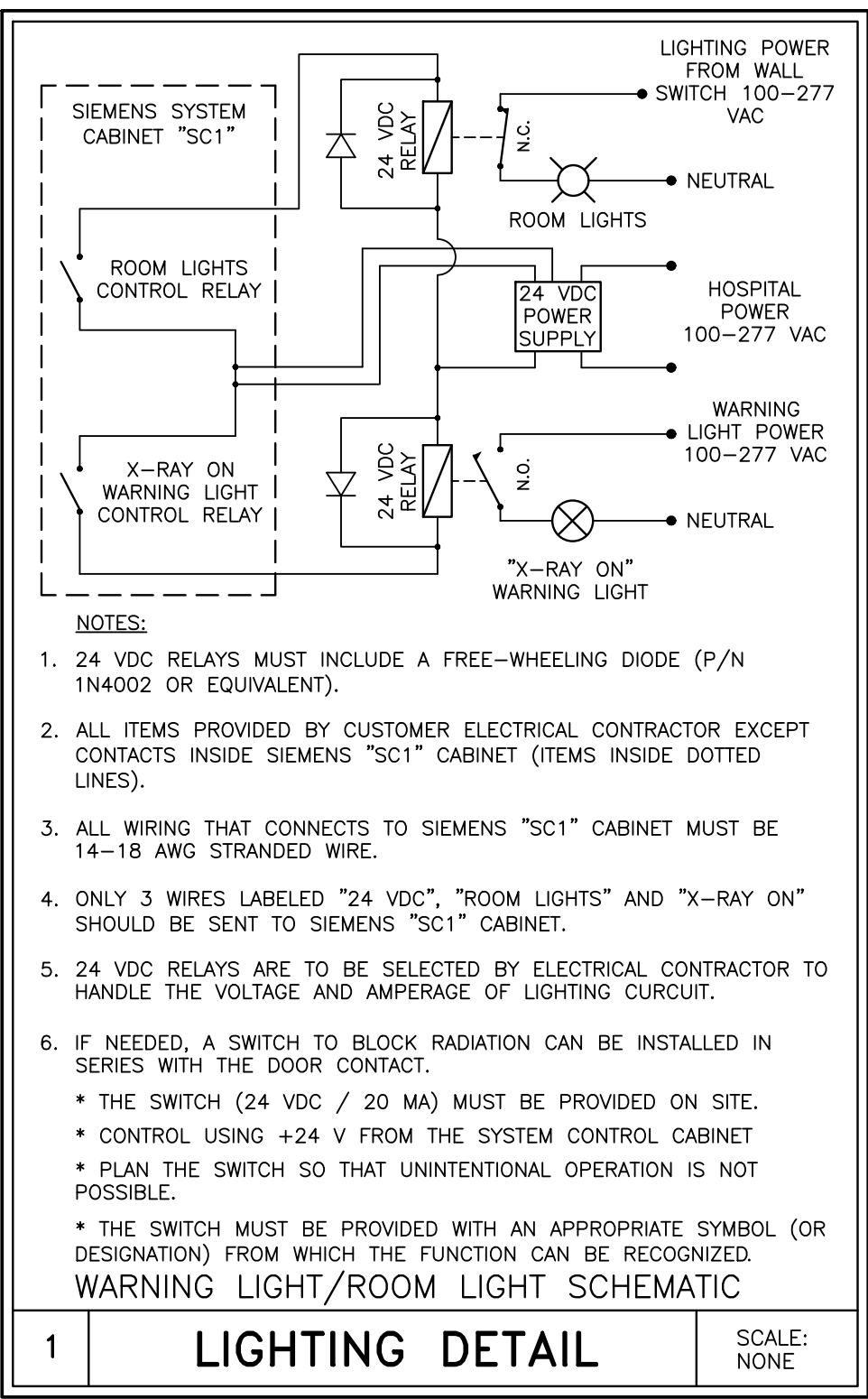
- SIZE GROUNDING WIRE TO SIEMENS EQUIPMENT PER POWER SCHEDULE REQUIREMENTS.
- DERIVED FROM THE ELECTRICAL SERVICE, TRANSFORMER OR MAIN DISTRIBUTION PANEL FEEDING THE SIEMENS EQUIPMENT.
- RUN IN THE SAME CONDUIT, TROUGH OR RACEWAY AS THE PHASE CONDUCTORS.
- CONTINUOUS, WITH NO BREAKS OR USE OF CONDUIT, CHASSIS OR EARTH AS THE SOLE GROUNDING PATH.
- BONDED TO CHASSIS AND/OR CONDUIT IN ACCORDANCE WITH THE NEC REQUIREMENTS.
- MINIMIZE CONNECTIONS OR TERMINALS TO ENSURE CONTINUITY OVER THE LIFE OF THE INSTALLATION.
- AS A NORM, THERE SHOULD NOT BE ANY CURRENT PRESENCE ON THE GROUND CONDUCTOR, BUT IT IS ACCEPTABLE TO HAVE ≤500mA DURING OPERATION OF THE IMAGING EQUIPMENT.

UPS BACKUP REQUIREMENT

IF A SIEMENS TILTING/O.R. TABLE IS PURCHASED, A UPS PROVIDING TABLE MOVEMENT IS REQUIRED. IF NOT PURCHASED FROM SIEMENS, IT IS THE CUSTOMER'S RESPONSIBILITY TO PROVIDE A UPS THAT ALLOWS A TILTING/O.R. TABLE TO BE MOVED TO A ZERO DEGREE TILT POSITION DESIGNATED FOR CPR WITHIN 15 SECONDS. IF THE CUSTOMER OR SIEMENS-SUPPLIED UPS SOLUTION IS NOT INSTALLED AND OPERATIONAL AT THE TIME OF THE SIEMENS IMAGING SYSTEM INSTALLATION, SIEMENS CANNOT AND WILL NOT TURN OVER THE AFFECTED SIEMENS SYSTEM!

TABLE POWER OUTLET SAFETY

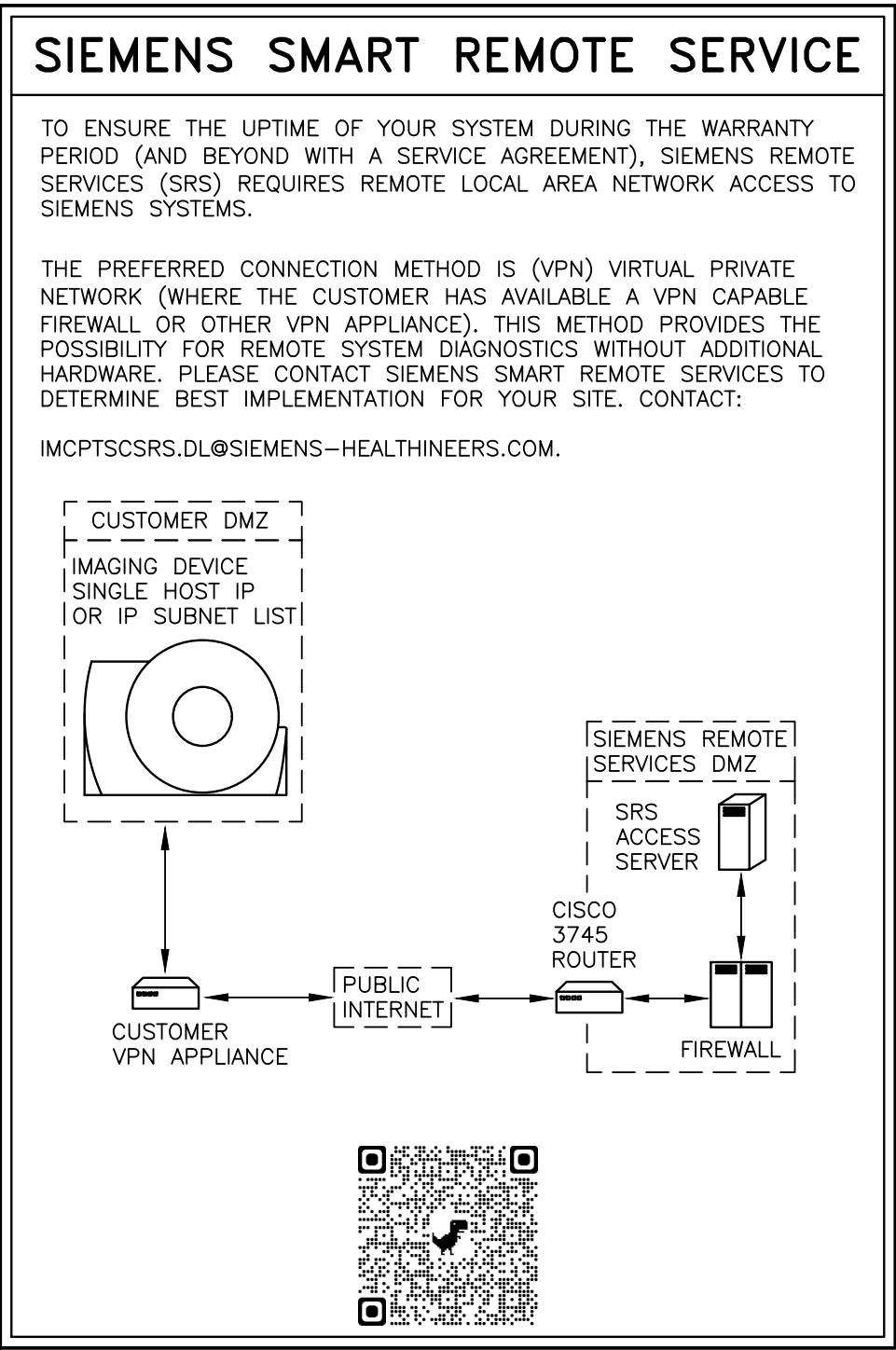
NOTE: LIFE-SUSTAINING EQUIPMENT MUST NOT BE CONNECTED TO THE TABLE POWER OUTLET (IF INSTALLED) IN THE SIEMENS PATIENT TABLE. POWER WILL BE DISCONNECTED IF EPO BUTTON IS PRESSED. TABLE OUTLET IS 120V, FUSED AT 5A.



POWER QUALITY

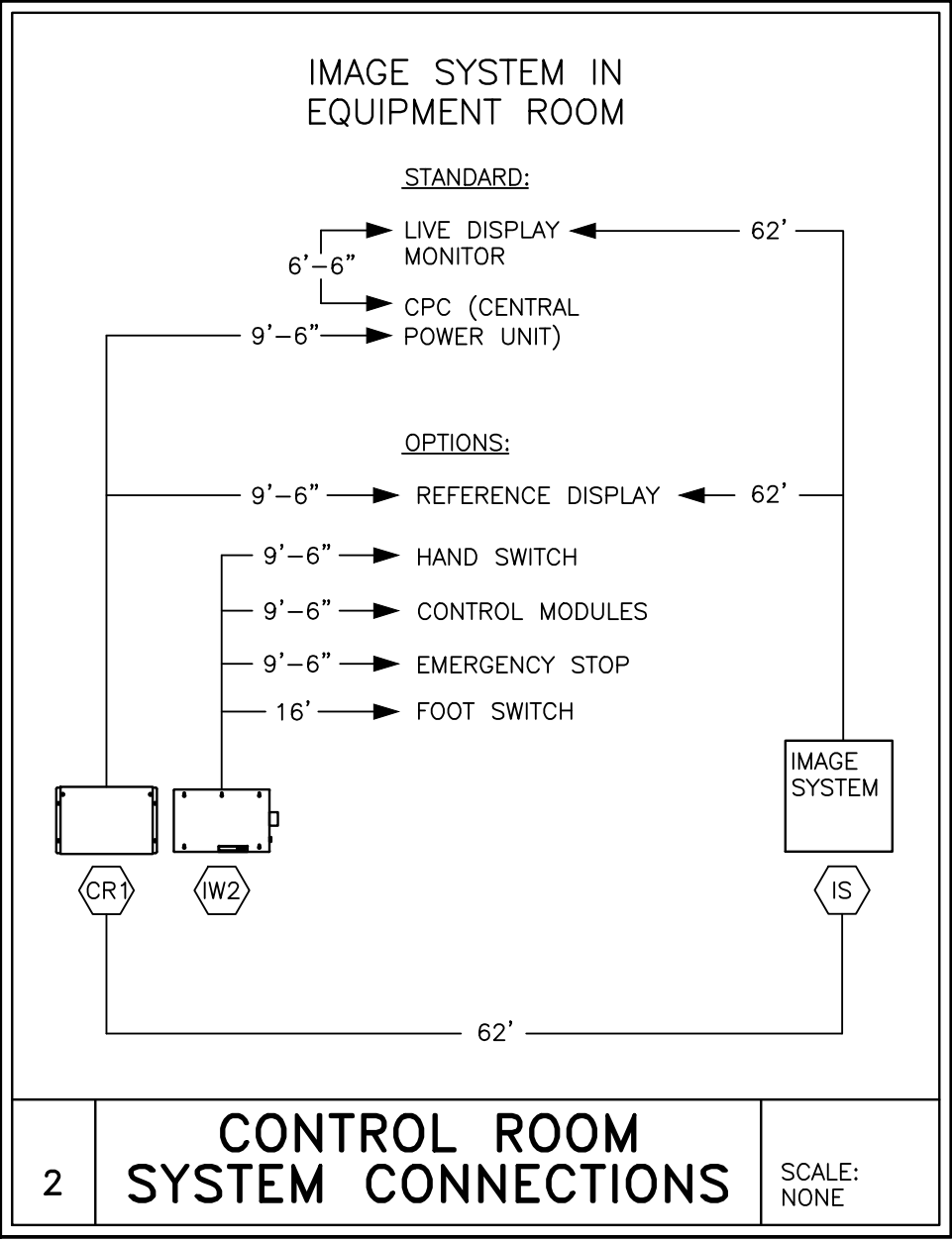
POOR POWER WILL ALTER EQUIPMENT PERFORMANCE

IT IS IN THE CUSTOMER'S INTEREST THAT THE ELECTRICAL CONTRACTOR BE RESPONSIBLE FOR TESTING AND VERIFYING THAT THE EQUIPMENT POWER SUPPLY COMPLIES WITH THE SIEMENS SPECIFICATIONS.



NETWORK REQUIREMENT

A GIGABIT NETWORK IS REQUIRED FOR ADEQUATE IMAGE DATA TRANSFER SPEED BETWEEN THE IMAGER AND 3D RECONSTRUCTION WORKSTATION. WORKFLOW AND CLINICAL NEEDS DEMAND 3D IMAGES BE AVAILABLE FOR REVIEW BY CLINICAL STAFF IMMEDIATELY UPON ACQUISITION.



CABLE PROTECTION

CABLES ARE NOT PLENUM RATED. ALL CABLES MUST BE ROUTED IN CABLE DUCTS OR CABLE CONDUITS.

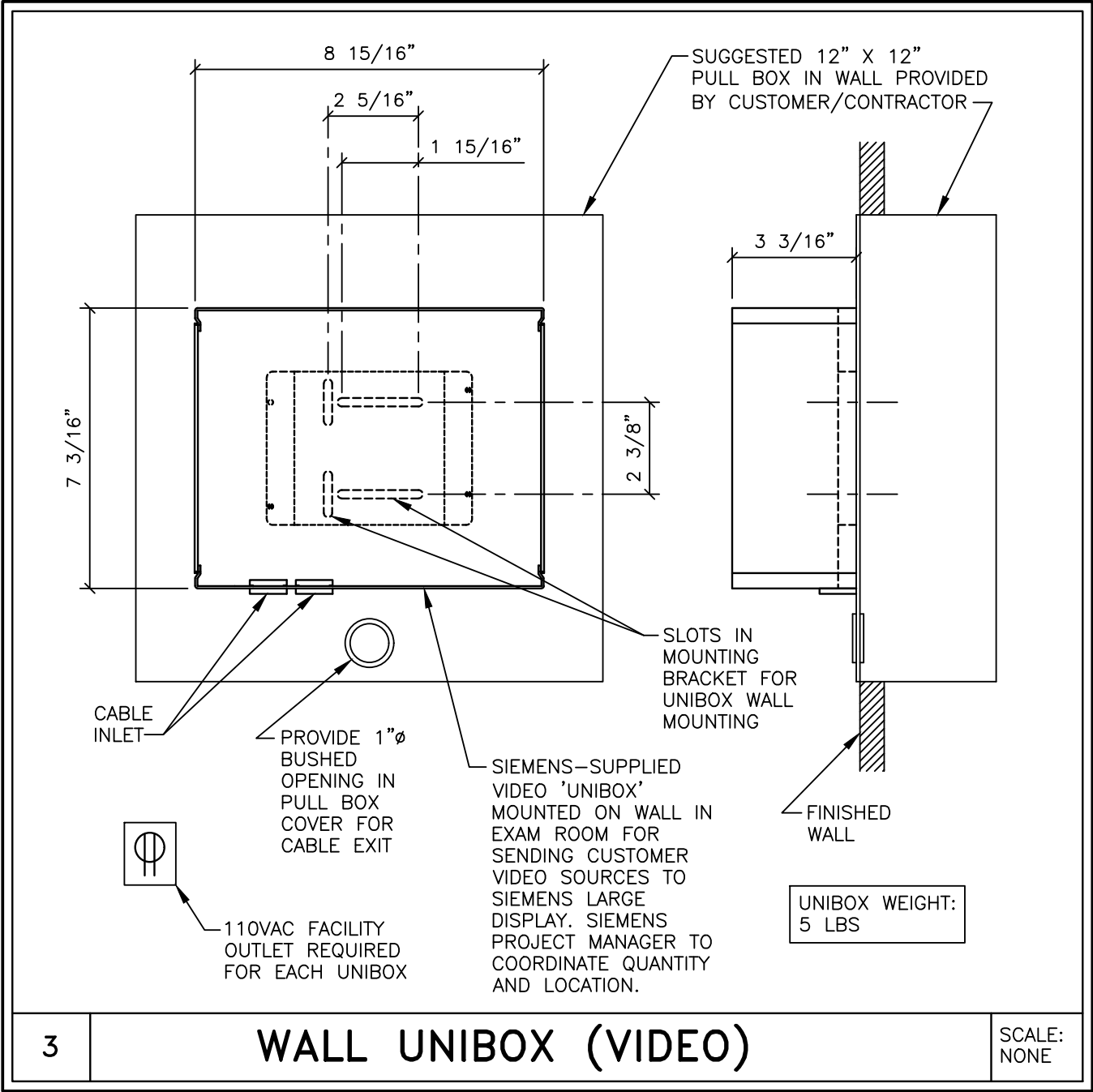
ATTENTION:

THIS DRAWING IS DESIGNED TO CONFORM TO FEATURES AND EQUIPMENT REQUIREMENTS PRESENTED AT THE TIME OF THEIR PREPARATION. SINCE BOTH THESE FACTORS ARE SUBJECT TO DESIGN MODIFICATION, THEY ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES.

IT IS RECOMMENDED THAT THE SIEMENS DRAWINGS BE INCORPORATED WITH THE CONSTRUCTION DOCUMENTS FOR REFERENCE.

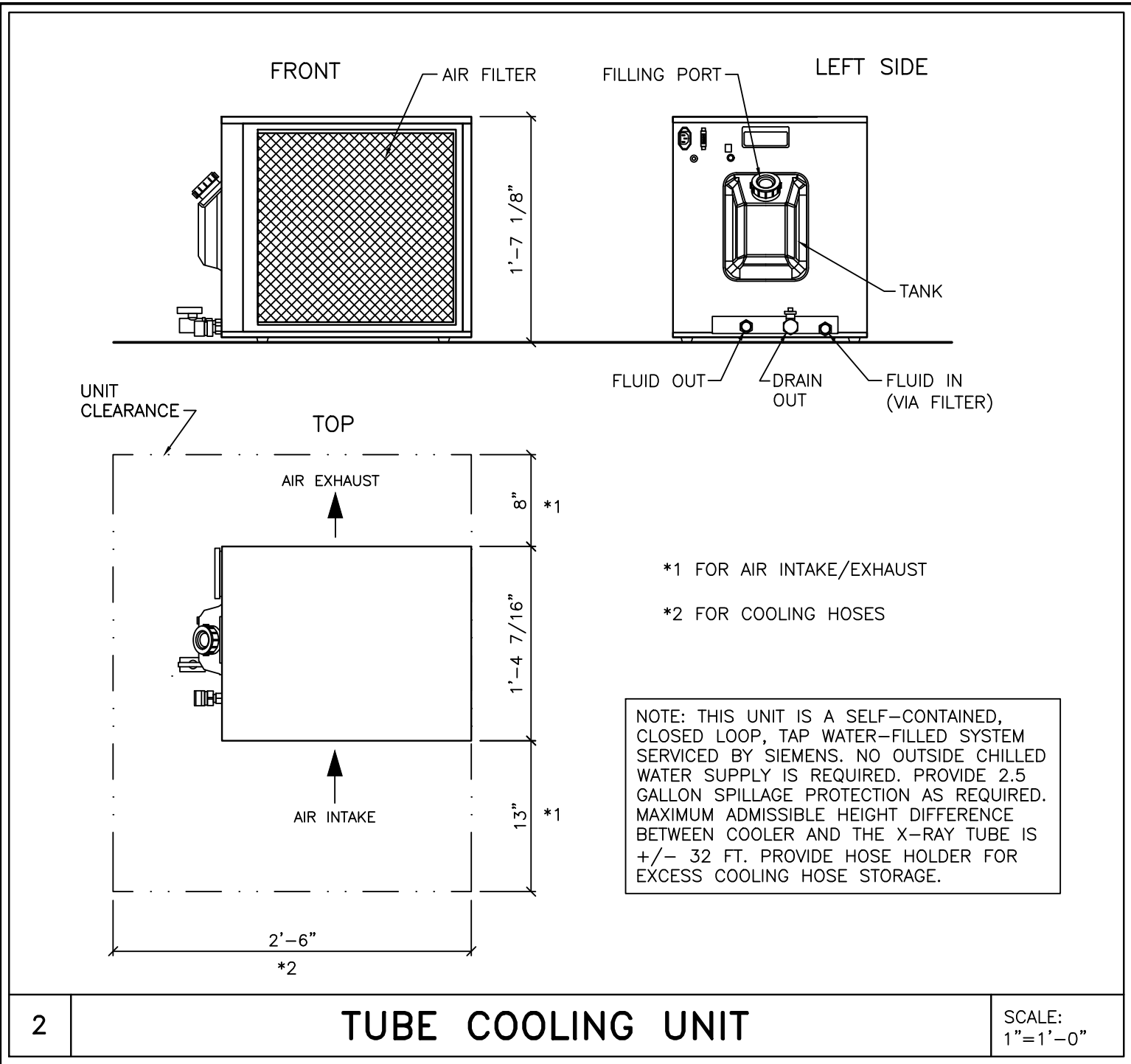
ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES. THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

PROJECT MANAGER: MARK BUXTON TEL: (417) 576-7820 VMAIL: EXT: FAX: EMAIL: MARK.BUXTON@SIEMENS-HEALTHINEERS.COM			SIEMENS		
ST LUKES EAST LEES SUMMIT 100 NE SAINT LUKES BLVD, LEES SUMMIT, MO 64086 HYBRID OR 1 - ARTIS PHENO SURGERY PRO					
PROJECT #: 2102395			SHEET: E-501		
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SCALE: AS NOTED	REF. # 30267218	DATE: 06/08/22	DRAWN BY: E. SANDIFER		
SYM DATE DESCRIPTION			-ISSUE BLOCK-		



HEAT LOADS
FOR BTU'S OF SIEMENS EQUIPMENT, REFER TO THE EQUIPMENT LEGEND, SHEET A-101.

ENVIRONMENTAL CONDITIONS		
EXAMINATION AND CONTROL ROOM	TEMPERATURE RANGE:	59°F–86°F (RECOMMENDED TEMPERATURE 72°F)
	RELATIVE HUMIDITY:	20% – 75% NON-CONDENSING
IMAGE SYSTEM (IS)	TEMPERATURE RANGE:	59°F–95°F (RECOMMENDED TEMPERATURE 72°F)
	RELATIVE HUMIDITY:	20%–75% NON CONDENSING
	MAX. TEMP. GRADIENT:	18° F/HR
	AIR FLOW VOLUME:	509 CFM
	MAX. NOISE GENERATION:	53 dB(A)
POLYDOROS GENERATOR (PU1)	TEMPERATURE RANGE:	59°F–86°F (RECOMMENDED TEMPERATURE 72°F)
	RELATIVE HUMIDITY:	20%–75% NON CONDENSING
	MAX. TEMP. GRADIENT:	9° F/HR
	AIR FLOW VOLUME:	94 CFM
	MAX. NOISE GENERATION:	55 dB(A)
SYSTEM CONTROL CABINET (SC1)	TEMPERATURE RANGE:	59°F–86°F (RECOMMENDED TEMPERATURE 72°F)
	RELATIVE HUMIDITY:	20%–75% NON-CONDENSING
	MAX. TEMP. GRADIENT:	9° F/HR
	AIR FLOW VOLUME:	300 CFM
	MAX. NOISE GENERATION:	55 dB(A)
TUBE COOLING UNIT (CU1)	TEMPERATURE RANGE:	41°F–86°F (RECOMMENDED TEMPERATURE 70°F)
	RELATIVE HUMIDITY:	FROST FREE
	AIR FLOW VOLUME:	559 CFM
	MAX. NOISE GENERATION:	59 dB(A)
FD COOLING UNIT (CU3)	TEMPERATURE RANGE:	59°F–86°F (RECOMMENDED TEMPERATURE 72°F)
	RELATIVE HUMIDITY:	20% – 75% NON-CONDENSING
	MAX. NOISE GENERATION:	48 dB(A)
FLOOR STAND ROBOTIC CABINET (RC)	TEMPERATURE RANGE:	50°F–95°F (RECOMMENDED TEMPERATURE 70°F)
	MAX. NOISE GENERATION:	67 dB(A)
FLOOR STAND WITH FLAT DETECTOR (R1)	MAXIMUM TEMPERATURE GRADIENT:	9° F/HR
	ATMOSPHERIC PRESSURE:	700hPa – 1040hPa
	SHOCKS:	MAXIMUM 10G/16MS
	VIBRATIONS:	MAXIMUM 0.1 G/10–200HZ
	MAX. NOISE GENERATION:	<55 dB(A)



CEILING HEIGHT RANGE	RECOMMENDED CEILING HEIGHT
9'-1 1/16" – 10'-2"	9'-6"

ATTENTION:

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—THIS SET OF PLANS REPRESENTS A COMPLETE SET OF DETAILS AND SHOULD NOT BE SEPARATED.

—IT IS RECOMMENDED THAT THE SIEMENS DRAWINGS BE INCORPORATED WITH THE CONSTRUCTION DOCUMENTS FOR REFERENCE.

—ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES.
—THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

			PROJECT MANAGER: MARK BUXTON TEL: (417) 576-7820 EXT: VMAIL: FAX: EMAIL: MARK.BUXTON@SIEMENS-HEALTHINEERS.COM		ARTIS PHENO REV. 31	
			SIEMENS			
			ST LUKES EAST LEES SUMMIT			
			100 NE SAINT LUKES BLVD, LEES SUMMIT, MO 64086 HYBRID OR 1 – ARTIS PHENO SURGERY PRO			
			THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW.		PROJECT #: 2102395	
			ALL RIGHTS ARE RESERVED.		SHEET: M-501	
			SCALE: AS NOTED REF. # 30267218		SHEET 7 OF 7 DRAWN BY: E. SANDIFER	
			—ISSUE BLOCK—		DATE: 06/08/22	

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HYBRID OR 1
-
100 NE ST LUKES BLVD,
LEE'S SUMMIT, MO 64086
DATE: 05 JUL 22

DIRECTORY

SALES REP: TRACEY WISTROM TRACEY.WISTROM@STRYKER.COM	417.693.4606
PROJECT MANAGER: FRED SIMPSON FRED.SIMPSON@STRYKER.COM	573.772.0405
ENGINEER: TRAVIS ZUBER TRAVIS.ZUBER@STRYKER.COM	314.591.3166

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EQUIPMENT LAYOUTS (R) SHEET SECTION

PRE-INSTALL NOTES(P) SHEET SECTION

ENGINEERING APPROVAL

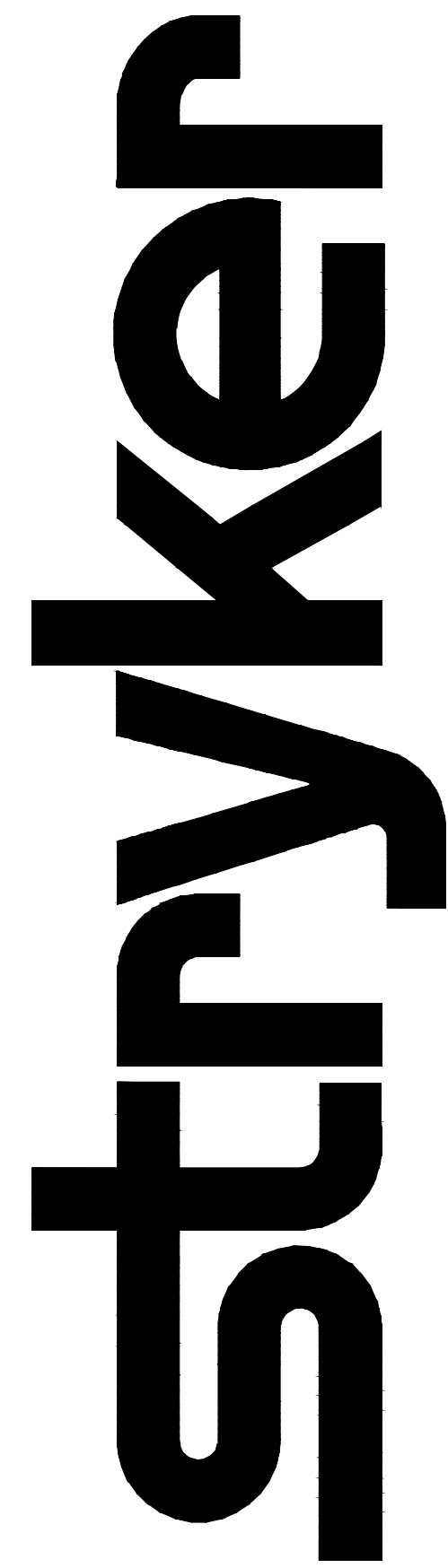
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APPROVED REVISION: 7

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REP: TRACEY WISTROM
PM: FRED SIMPSON

SHEET:
TITLE

NOTES: (UNLESS OTHERWISE SPECIFIED)

SUMMARY LIST OF CHANGES		
KEY #	DESCRIPTION OF CHANGE	ROOM #
1	CHANGED MOUNT "D" FROM POWERED TO FIXED BOOM	HYBRID OR 1
2	ADDED LOCATION OF PTZ CAMERA TO WEST WALL	HYBRID OR 1
3	CHANGED LIGHT/LEAD SHIELD ARMS FROM $\frac{1000}{900}$ TO $\frac{1100}{1000}$ ON MOUNTS "F" AND "F1"	HYBRID OR 1
4	ADDED IN-LIGHT CAMERA TO MOUNT "F"	HYBRID OR 1
5	CHANGED MOUNT "E1" FROM ANESTHESIA TO UTILITY BOOM	HYBRID OR 1
6	ADDED CONDUIT FOR PTZ CAMERA TO CONDUIT SCHEDULE	HYBRID OR 1
7	ADDED CONDUIT FOR "L-X" IN CONDUIT SCHEDULE	HYBRID OR 1

SCALE: 3/8" = 1'

FINAL

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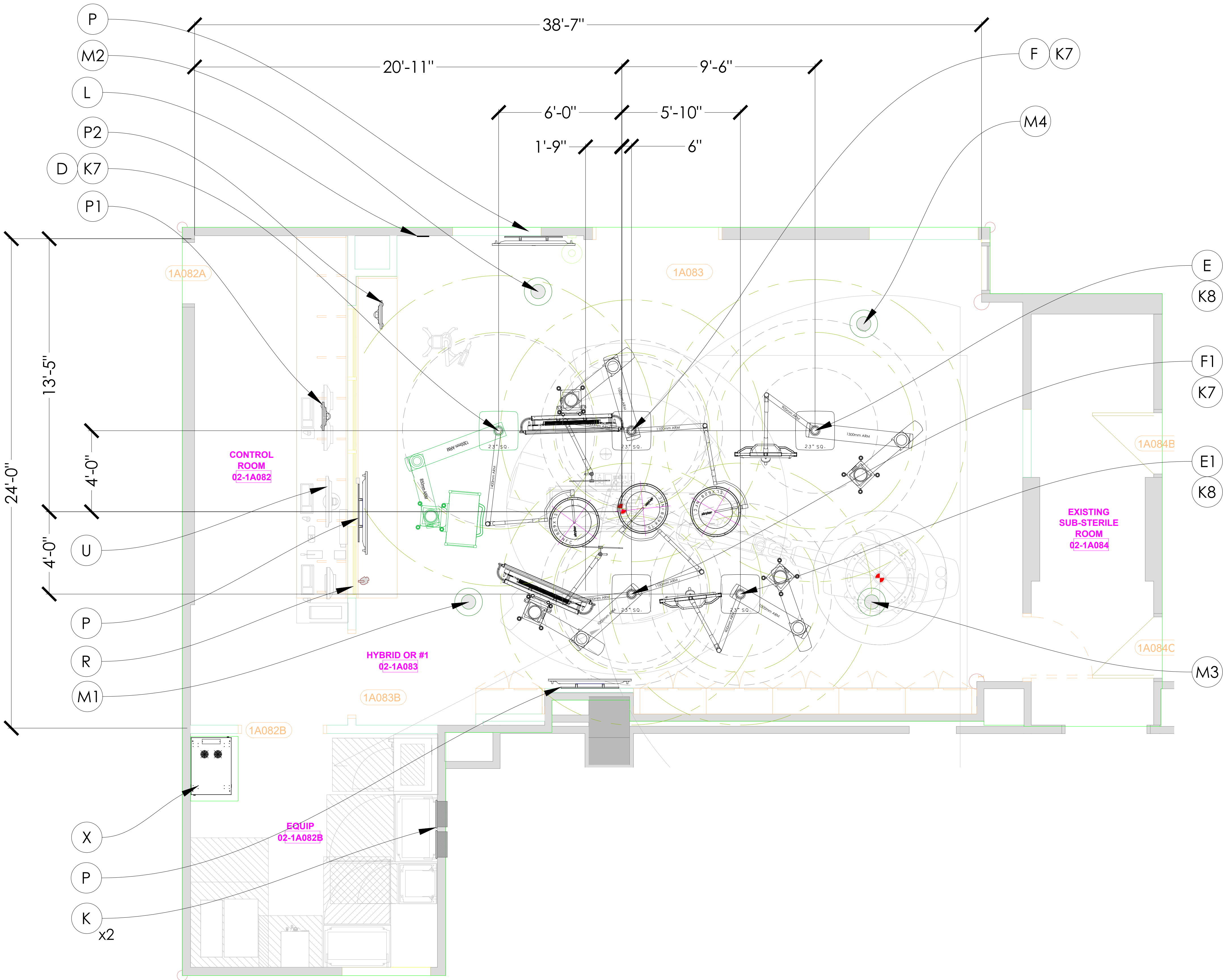
REP: TRACEY WISTROM PM: FRED SIMPSON
SHEET: C - 1

NOTES: (UNLESS OTHERWISE SPECIFIED)

EQUIPMENT SCHEDULE		
KEY ITEM	NAME	QTY
D	S-SERIES SFS-3-C EQUIPMENT BOOM 1300mm TOP ARM & 850mm BOTTOM ARM WITH 1400mm 628 NFC ARM	1
E	S-SERIES SPS-2-C ANESTHESIA BOOM 1300mm TOP ARM WITH 900mm UDM ARM	1
E1	S-SERIES SPS-2-C UTILITY BOOM 1000mm TOP ARM WITH 900mm UDM ARM	1
F	S-SERIES SPS-2-C MONITOR BOOM 1000mm TOP ARM WITH 1100mm SLX 628 NFC ARM & 1000mm LEAD SHIELD ARM WITH IN-LIGHT CAMERA	1
F1	S-SERIES SPS-2-C MONITOR BOOM 1000mm TOP ARM WITH 1100mm SLX 628 NFC ARM & 1000mm LEAD SHIELD ARM	1
K	SLX SK BOX (RECESSED)	2
K7	TC LIGHT JUNCTION BOX	3
K8	TC UDM JUNCTION BOX	2
L	SLX WALL CONTROL (RECESSED)	1
M1-M4	CEILING MOUNTED CIRCULAR SPEAKERS	4
P	55" WALL MONITOR	3
P1	PRIMARY COR IP TOUCHPANEL	1
P2	SECONDRAY COR IP TOUCHPANEL	1
R	WALL MOUNTED PTZ CAMERA	1
U	CONTROL ROOM DESK	1
X	COR IP RACK (ADJACENT)	1

CONDUIT SCHEDULE		
CONDUIT RUN ITEM - ITEM	CONDUIT QTY	CONDUIT SIZE
D - F	1	1"
D - X	2	2"
E - X	1	2"
E1 - X	1	2"
F - F1	1	1"
F - X	1	2"
K - L	1	1"
K - *	1	1"
K7 - K	2	1"
K8 - X	1	1 1/4"
L - X	1	1"
M1 - M2	1	3/4"
M1 - X	1	3/4"
M3 - M4	1	3/4"
M3 - X	1	3/4"
P - X	1	1 1/4"
P1 - X	1	1 1/4"
P2 - X	1	1 1/4"
R - X	1	1 1/4"
U - X	3	1 1/2"
* - NEAREST ELECTRICAL PANEL		

SCALE: 3/8" = 1'



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SHEET:	

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NOTES: (UNLESS OTHERWISE SPECIFIED)

1. ALL CONDUIT RUNS INCLUDE INSULATED BUSHINGS AND PULL STRINGS.
2. CONDUIT RUNS CANNOT EXCEED 45' FROM END-TO-END. DO NOT EXCEED FOUR (4) 90 DEGREE BENDS.
3. CABLES BETWEEN ITEMS OVER 45 FEET IN LENGTH ARE PROVIDED BY THE CUSTOMER / CONTRACTOR. PLEASE REFER TO EQUIPMENT LIST FOR CABLE SPECIFICATIONS.
4. THE PRE-INSTALL MANUAL REQUIREMENTS SUPERSEDE ALL PRE-INSTALL NOTES IN THIS DRAWING PACKAGE.
5. EQUIPMENT LIST:

PRE-INSTALL NOTES SCHEDULE	
KEY ITEM	NAME
D F F1	<div>S-SERIES TC BOOM WITH LIGHT</div> <div>S-SERIES TC BOOM WITH LIGHT/LEAD SHIELD</div> <div>STRUCTURAL: - STRYKER COMMON PRE-INSTALL PLATE SHALL BE INSTALLED BY CUSTOMER/CONTRACTOR AT 3-INCH, ± .25-INCH ABOVE FINISHED CEILING PER CUSTOMER PROVIDED STRUCTURAL ENGINEER SPECS. CONTRACTOR IS RESPONSIBLE FOR PROTECTING THREADED HOLES DURING THE PLATE WELDING/INSTALLATION PROCESS, TO PREVENT SLAG FROM OBSTRUCTING THREADED HOLES. - TO ENSURE ADEQUATE ROOM FOR INSTALLATION OF THE S-SERIES BOOM THE OWNER AND/OR CONTRACTOR MUST ENSURE THAT STRUCTURAL/UTILITY COMPONENTS DO NOT INTERFERE WITH ANY PART OF THE S-SERIES BOOM. THIS “NO-FLY” ZONE EXTENDS 12-INCHES FROM THE MOUNTING PLATE ON ALL SIDES, AND 16-INCHES UP FROM THE FINISHED CEILING. - REQUIRED: A 21-INCH SQUARE HOLE CENTERED ON STRYKER PRE-INSTALL PLATE IN THE FINISHED CEILING IS REQUIRED FOR INSTALLATION. A 23-INCH SQUARE CEILING COVER CONCEALS HOLE AFTER BOOM IS INSTALLED POWER: - REFER TO S-SERIES MANUFACTURING SERVICE MODULE DRAWING FOR ELECTRICAL CIRCUIT COUNT. - THE CONTRACTOR / ELECTRICIAN TO HARDWIRE STRYKER ELECTRICAL WHIP DURING STRYKER INSTALLATION. - ALL ELECTRICAL CIRCUITS SHALL BE CONNECTED TO S-SERIES JUNCTION BOX OR BOXES. - THE S-SERIES JUNCTION BOX (7.4" x 3.5" x 3.74") ARRIVES ATTACHED TO THE S-SERIES BOOM FLANGE BY A GROUND WIRE. THE JUNCTION BOX MUST BE MOUNTED ADJACENT TO THE MED GAS LINES BY THE CUSTOMER/CONTRACTOR ACCORDING TO NATIONAL AND LOCAL BUILDING CODES. - A SEPARATE TC JUNCTION BOX (SUPPLIED BY STRYKER) MUST BE MOUNTED WITHIN 3-FEET OF BOOM MOUNT.AND ACCESSIBLE FROM THE ACCESS PANEL. THIS IS MOUNTED BY AN ELECTRICIAN AND IS REQUIRED FOR SURGICAL LIGHT POWER. REQUIRED ACCESS PANEL: - ONE (1) 24-INCH X 24-INCH ACCESS PANEL ADJACENT TO BOOM, SO JUNCTION BOXES, TC JUNCTION BOX AND MED GAS LINES CAN BE EASILY ACCESSED. CONDUIT: - REFER TO ROOM LAYOUT FOR CONDUIT SIZE. TERMINATE ALL CONDUITS WITHIN 18-INCHES OF THE CENTER OF THE CEILING MOUNT. PLUMBING: - INSTALL VALVE BRIDGE TO TOP OF PRE-INSTALL PLATE. ALL GAS LINES MUST BE TERMINATED WITH STRYKER SUPPLIED GAS RISERS BY CUSTOMER/MEDGAS INSTALLER. - ALL FINAL DISS CONNECTIONS TO BE MADE BY CUSTOMER/MEDGAS INSTALLER AFTER STRYKER INSTALLATION. (REV A)</div>

PRE-INSTALL NOTES SCHEDULE	
KEY ITEM	NAME
E E1	<div>S-SERIES TC BOOM WITH UDM</div> <div>STRUCTURAL: - STRYKER COMMON PRE-INSTALL PLATE SHALL BE INSTALLED BY CUSTOMER/CONTRACTOR AT 3-INCH, ± .25-INCH ABOVE FINISHED CEILING PER CUSTOMER PROVIDED STRUCTURAL ENGINEER SPECS. CONTRACTOR IS RESPONSIBLE FOR PROTECTING THREADED HOLES DURING THE PLATE WELDING/INSTALLATION PROCESS, TO PREVENT SLAG FROM OBSTRUCTING THREADED HOLES. - TO ENSURE ADEQUATE ROOM FOR INSTALLATION OF THE S-SERIES BOOM THE OWNER AND/OR CONTRACTOR MUST ENSURE THAT STRUCTURAL/UTILITY COMPONENTS DO NOT INTERFERE WITH ANY PART OF THE S-SERIES BOOM. THIS “NO-FLY” ZONE EXTENDS 12-INCHES FROM THE MOUNTING PLATE ON ALL SIDES, AND 16-INCHES UP FROM THE FINISHED CEILING. - REQUIRED: A 21-INCH SQUARE HOLE CENTERED ON STRYKER PRE-INSTALL PLATE IN THE FINISHED CEILING IS REQUIRED FOR INSTALLATION. A 23-INCH SQUARE CEILING COVER CONCEALS HOLE AFTER BOOM IS INSTALLED POWER: - REFER TO S-SERIES MANUFACTURING SERVICE MODULE DRAWING FOR ELECTRICAL CIRCUIT COUNT. - THE CONTRACTOR / ELECTRICIAN TO HARDWIRE STRYKER ELECTRICAL WHIP DURING STRYKER INSTALLATION. - ALL ELECTRICAL CIRCUITS SHALL BE CONNECTED TO S-SERIES JUNCTION BOX OR BOXES. - TWO SEPARATE JUNCTION BOXES: A TC JUNCTION BOX AND UDM JUNCTION BOX (BOTH SUPPLIED BY STRYKER AND MEASURE 10-INCH HEIGHT X 8-INCH WIDTH X 4-INCH DEPTH) MUST BE MOUNTED WITHIN 18-INCHES OF BOOM MOUNT AND ACCESSIBLE FROM THE ACCESS PANEL. THESE ARE MOUNTED BY AN ELECTRICIAN AND IS REQUIRED FOR POWER AND CABLING. - IF UDM MONITOR IS POWERED VIA AC POWER. CONTRACTOR TO PROVIDE AN AC CIRCUIT TO THE AC TERMINAL BLOCK IN THE TC JUNCTION BOX. - THE S-SERIES JUNCTION BOX (7.4" x 3.5" x 3.74") ARRIVES ATTACHED TO THE S-SERIES BOOM FLANGE BY A GROUND WIRE. THE JUNCTION BOX MUST BE MOUNTED ADJACENT TO THE MED GAS LINES BY THE CUSTOMER/CONTRACTOR ACCORDING TO NATIONAL AND LOCAL BUILDING CODES. REQUIRED ACCESS PANEL: - ONE (1) 24-INCH X 24-INCH ACCESS PANEL ADJACENT TO BOOM, SO JUNCTION BOX(ES), UDM JB AND MED GAS LINES CAN BE EASILY ACCESSED. CONDUIT: - REFER TO ROOM LAYOUT FOR CONDUIT SIZE. TERMINATE ALL CONDUITS WITHIN 18-INCHES OF THE CENTER OF THE CEILING MOUNT. PLUMBING: - INSTALL VALVE BRIDGE TO TOP OF PRE-INSTALL PLATE. ALL GAS LINES MUST BE TERMINATED WITH STRYKER SUPPLIED GAS RISERS BY CUSTOMER/MEDGAS INSTALLER. - ALL FINAL DISS CONNECTIONS TO BE MADE BY CUSTOMER/MEDGAS INSTALLER AFTER STRYKER INSTALLATION. (REV A)</div>

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		DRC367895		

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PRE-INSTALL NOTES

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LEE'S SUMMIT, MO 64086

REP: TRACEY WISTROM
PM: FRED SIMPSON

SHEET:
P-1

FINAL

NOTES: (UNLESS OTHERWISE SPECIFIED)

1. ALL CONDUIT RUNS INCLUDE INSULATED BUSHINGS AND PULL STRINGS.
2. CONDUIT RUNS CANNOT EXCEED 45' FROM END-TO-END. DO NOT EXCEED FOUR (4) 90 DEGREE BENDS.
3. CABLES BETWEEN ITEMS OVER 45 FEET IN LENGTH ARE PROVIDED BY THE CUSTOMER / CONTRACTOR. PLEASE REFER TO EQUIPMENT LIST FOR CABLE SPECIFICATIONS.
4. THE PRE-INSTALL MANUAL REQUIREMENTS SUPERSEDE ALL PRE-INSTALL NOTES IN THIS DRAWING PACKAGE.
5. EQUIPMENT LIST:

PRE-INSTALL NOTES SCHEDULE	
KEY ITEM	NAME
K	<div>CHROMOPHARE SK BOX (RECESSED)</div> <div>ENCLOSURE DIMENSIONS/MOUNTING:<ul style="list-style-type: none">- RECESSED MOUNT COLLAR IS REQUIRED FOR INSTALLATION- SINGLE ENCLOSURE RECESSED DIMENSIONS 19.69" X 15.75" x 7.87" (1-2 LIGHTHEADS), WEIGHT = 69 LBS INCLUDING DECORATIVE TRIM- DOUBLE ENLCOSURE RECESSED DIMENSIONS 19.69" x 31.5" X 7.87" (3-4 LIGHTHEADS), WEIGHT = 135 LBS INCLUDING DECORATIVE TRIM- WALL CUTOUT MUST ALLOW AN ADDITIONAL 0.39" ON ALL 4 SIDES TO ACCOMODATE DECORATIVE TRIM FRAME- CONTRACTOR SHOULD MEASURE TARGET WALL BEFORE INSTALLATION TO VERIFY SUFFICIENT DEPTH TO ACCOMODATE ENCLOSURE DIMENSIONS- REQUIRES RECESSED MOUNT COLLAR AND (OPTIONAL) DECORATIVE TRIM PLATE- INTEGRATED LIGHT CONTROL (OPTIONAL) MUST BE INDICATED AT TIME OF ORDER. ADD 2 LBS</div> <div>CONDUIT:<ul style="list-style-type: none">- MAXIMUM LENGTH OF 45 FEET (15M) OF CONDUIT RUN TO BOTH THE MOUNTING PLATE AND THE TO WALL CONTROL BOX- TWO (2) 1" FROM SK ENCLOSURE TO EACH LIGHT MOUNTING LOCATION,- ONE (1) 1" BETWEEN LIGHT MOUNTING LOCATIONS,- ONE (1) 1" FOR MAINS 120VAC TO SK ENCLOSURE (UP TO TWO(2)) LIGHTS PER CIRCUIT).</div> <div>POWER:<ul style="list-style-type: none">- MAINS AC POWER SHOULD BE 120 VAC, 50/60 HZ CONNECTED WITH 3 WIRE, 12 AWG MIN., 600 V TERMINATED TO FUSED TERMINAL BLOCK INSIDE THE SK ENCLOSURE- DC WIRING FROM SK ENCLOSURE TO MOUNTING PLATE SHOULD BE 12 AWG, 600 VOLT, 1 WIRE PAIR PER LIGHT HEAD AND 1 GROUND WIRE PER MOUNTING PLATE. WIRES TERMINAT AT NON-FUSED TERMINAL BLOCK INSIDE THE SK ENCLOSURE AND FALL A MINIMUM OF 18 INCHES BELOW THE CEILING AT THE MOUNTING PLATE- CONTRACTOR IS RESPONSIBLE FOR RUNNING POWER FROM AN AC MAINS SUPPLY TO THE SK BOX- CONTRACTOR IS RESPONSIBLE FOR RUNNING DC WIRING FROM THE SK ENCLOSURE TO THE SURGICAL LIGHT MOUNTING PLATE- CONTRACTOR IS RESPONSIBLE FOR MAKING BOTH AC AND DC CONNECTIONS IN THE SK ENCLOSURE"</div>
K7	<div>TC LIGHT JUNCTION BOX</div> <div>IS TO BE MOUNTED WITHIN 3FT OF BOOM MOUNT AND ACCESSABLE FROM THE ACCESS PANEL.<ul style="list-style-type: none">- UPON EQUIPMENT INSTALLTION AN ELECTRONICS MODULE WILL BE INSTALLED BY STRYKER INSTALLATION TEAM AND THE LOW VOLTAGE CAN BE TERMINATED TO THE MODULE PLATE BY THE ELECTRICIAN.(REV A)</div>
L	<div>CHROMOPHARE WALL CONTROL PLATE (RECESSED)</div> <div>CONDUIT: ONE (1) 1" CONDUIT WITH FINISH GROMMETS TO SK ENCLOSURE OR ON TUBE ELECTRONICS.</div> <div>BACK BOX: NONE. WALL CONTROL RECEIVES CONDUIT.</div> <div>POWER: NONE</div>

PRE-INSTALL NOTES SCHEDULE	
KEY ITEM	NAME
M1-M4	<div>FLUSH MOUNTED CIRCULAR CEILING SPEAKERS</div> <div>CONDUIT:<ul style="list-style-type: none">- REFER TO ROOM LAYOUT FOR CONDUIT QUANTITY AND SIZESTRUCTURAL:<ul style="list-style-type: none">- CUSTOMER/CONTRACTOR TO CUT ONE 10 ¾" DIA. CIRCLE AT SPEAKER MOUNTING LOCATION.- OUTER DIA. DIMENSION IS 13.4"- PROVIDE 5" MINIMUM CEILING CLEARANCE.(REV A)</div>
P	<div>55" WALL MONITOR</div> <div>CONDUIT:<ul style="list-style-type: none">- REFER TO ROOM LAYOUT FOR CONDUIT QUANTITY AND SIZEBACK BOX:<ul style="list-style-type: none">- ONE (1) 4"W X 4"H JUNCTION BOX WITH SINGLE-GANG MUD RING- MOUNTED DIRECTLY ABOVE THE TOP OF THE MOUNTING BRACKET.POWER:<ul style="list-style-type: none">- ONE (1) STANDARD DUPLEX OUTLET MOUNTED ADJACENT TO JUNCTION BOX.STRUCTURAL:<ul style="list-style-type: none">- CUSTOMER/CONTRACTOR TO MOUNT STRYKER PROVIDED BRACKET TO THE WALL IN THE DESIRED LOCATION WITH PROPER REINFORCEMENT TO SUPPORT THE MONITOR PRIOR TO STRYKER INSTALLATION.DIMENSIONS: 48.8" x 28.1" x 2.7"</div> <div>STRYKER-PROVIDED WALL BRACKET DEPTH: 2.7"</div> <div>NOTE: STRYKER PROJECT MANAGER WILL PROVIDE MOUNTING SPECIFICATIONS.</div>
P1	<div>COR IP TOUCHPANEL (PRIMARY)</div> <div>CONDUIT:<ul style="list-style-type: none">- REFER TO ROOM LAYOUT FOR CONDUIT QUANTITY AND SIZEBACK BOX:<ul style="list-style-type: none">- ONE (1) 4"W X 4"H JUNCTION BOX WITH SINGLE-GANG MUD RING- MOUNT J-BOX WITHIN 18" OF TOUCH PANEL LOCATIONPOWER:<ul style="list-style-type: none">- TWO (2) QUAD OUTLETS WITHIN 18" OF TOUCH PANEL LOCATION.(Rev A)</div>
P2	<div>COR IP TOUCHPANEL (SECONDARY)</div> <div>CONDUIT:<ul style="list-style-type: none">- REFER TO ROOM LAYOUT FOR CONDUIT QUANTITY AND SIZEBACK BOX:<ul style="list-style-type: none">- ONE (1) 4"W X 4"H JUNCTION BOX WITH SINGLE-GANG MUD RING- MOUNT J-BOX WITHIN 18" OF TOUCH PANEL LOCATIONPOWER:<ul style="list-style-type: none">- ONE (1) QUAD OUTLET WITHIN 18" OF TOUCH PANEL LOCATION.(Rev A)</div>

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1410 LAKESIDE PARKWAY, SUITE 100
FLOWER MOUND, TEXAS 75028
PHONE: (877) 789-8106
FAX: (972) 410-7001
www.stryker.com

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PRE-INSTALL NOTES

ST. LUKES EAST HOSPITAL
HYBRID OR 1
LEES SUMMIT, MO 64086

REP: TRACEY WISTROM
PM: FRED SIMPSON

SHEET:

P-2



NOTES: (UNLESS OTHERWISE SPECIFIED)

1. ALL CONDUIT RUNS INCLUDE INSULATED BUSHINGS AND PULL STRINGS.
2. CONDUIT RUNS CANNOT EXCEED 45' FROM END-TO-END. DO NOT EXCEED FOUR (4) 90 DEGREE BENDS.
3. CABLES BETWEEN ITEMS OVER 45 FEET IN LENGTH ARE PROVIDED BY THE CUSTOMER / CONTRACTOR. PLEASE REFER TO EQUIPMENT LIST FOR CABLE SPECIFICATIONS.
4. THE PRE-INSTALL MANUAL REQUIREMENTS SUPERSEDE ALL PRE-INSTALL NOTES IN THIS DRAWING PACKAGE.
5. EQUIPMENT LIST:

PRE-INSTALL NOTES SCHEDULE	
KEY ITEM	NAME
R	<div>WALL MOUNTED HD PTZ CAMERA</div> <div>CONDUIT: REFER TO ROOM LAYOUT FOR CONDUIT QUANTITY AND SIZE</div> <div>BACK BOX: - ONE (1) 4"W X 4"H JUNCTION BOX WITH SINGLE-GANG MUD RING - FLUSH MOUNT J-BOX IN WALL 12" BELOW FINISHED CEILING</div> <div>DATA: - ADD SINGLE DATA PLATE WITHIN 6" OF PTZ MOUNT</div> <div>POWER: NONE</div> <div>STRUCTURAL: - CUSTOMER/CONTRACTOR TO MOUNT STRYKER PROVIDED BRACKET TO THE WALL IN THE DESIRED LOCATION WITH PROPER REINFORCEMENT TO HD PAN/TILT/ZOOM CAMERA PRIOR TO STRYKER INSTALLATION. (REV A)</div>
X	<div>COR IP ADJACENT RACK (CUSTOMER PROVIDED)</div> <div>CONNECTED OR IP SYSTEM (<65' from OR)</div> <div>THE BELOW COUNTS ARE PER OR</div> <div>SPACE REQUIREMENTS: - CUSTOMER-SUPPLIED FOUR POST, 19" RACK, 29" Depth - MUST ACCOMMODATE UP TO 24RU PER ROOM. SPECIFIC RU REQUIREMENT CAN BE CONFIRMED BY STRYKER ENGINEERING.</div> <div>DATA: TWO (2) ETHERNET CONNECTIONS</div> <div>BACKBOX: N/A</div> <div>NOTE: ALL CONDUITS CONSOLIDATED TO THE RACK LOCATION WITHIN THE A/V CLOSET</div> <div>POWER: - TWELVE (12) ELECTRICAL RECEPTACLES - THREE (3) 20A ELECTRICAL CIRCUITS TOTAL. EACH QUAD WILL HAVE ONE (1) 20A CIRCUIT - ALL CIRCUIT REQUIREMENTS SHOULD BE BASED OFF LOCAL BUILDING CODE OR WHAT IS SPECIFIED UNDER THE IBC. - A UPS IS REQUIRED FOR AT LEAST (1) OF THE 20A CIRCUITS - IF POWERSTRIPS ARE NOT ALLOWED, CONSULT YOUR STRYKER PM FOR NUMBER OF OUTLETS. - CONNECT RACK TO BUILDING'S EARTH GROUND USING 8 AWG. (Rev A)</div>

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FLOWER MOUND, TEXAS 75028
PHONE: (877) 789-8106
FAX: (972) 410-7001
www.stryker.com

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ST. LUKES EAST HOSPITAL
HYBRID OR 1
LEE'S SUMMIT, MO 64086

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