# P R O J E C T T E A M

#### ARCHITECT ACI BOLAND, INC.

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FAX

## ABBREVIATIONS

ACOUSTIC/ACOUSTICAL AC ADD. ADDENDUM ADD'N. ADDITION ABC AGGREGATE BASE COURSE ABOVE FINISH FLOOR AFF AGG. AGGREGATE A/C AIR CONDITIONING ALUMINUM AL. ALT. ALTERNATE ANCHOR BOLT A.B. AND ARCH. ARCHITEC ASP. ASPHALT AT @ ACT ACOUSTIC CEILING TILE/PANEL ANGLE X BLKG. BLOCKING BSMT. BASEMENT

B.M. BENCHMARK BOARD BD. B.O. BOTTOM OF BLDG. BUILDING CAB'T. CABINET C.I.P. CAST IN PLACE C.B. CATCH BASIN

BEAM

BM.

CLG.

D.P.

DISP.

CEILING CEM. CEMENT/CEMENTITIOUS CG. CENTIGRAM CM CENTIMETER CENTER LINE CL CERAMIC CER. C.T. CERAMIC TILE CHAN. CHANNEL CHANNEL CLEAR CLR. C.O. CLEAN OUT CLOS. CLOSET COL. COLUMN CONC. CONCRETE CONN. CONNECTION CONST. CONSTRUCTION C.J. CONTROL JOINT CONSTRUCTION JOINT CONT. CONTINUOUS CONTR. CONTRACTOR

COR'G. CORRUGATED CTR. COUNTER CTSK. COUNTERSUNK C.M.U. CONCRETE MASONRY UNIT DAMP PROOFING DB. DECIBEL DIAG. DIAGONAL DIAM. DIAMETER DIM. DIMENSION

DWL. DOWEL DN. DOWN D.S. DOWNSPOUT DWG. DRAWING EA. EACH ELEC ELECTRIC E.W.C. ELECTRIC WATER COOLER EL. ELEVATION ELEV. ELEVATOR EQ. EQUAL

DISPENSER

EQUIP. EQUIPMENT EXH. EXHAUST EXPAN. EXPANSION E.J. EXPANSION JOINT EXIST. EXISTING EXT. EXTERIOR FT. FEET / FOOT

FIN. FINISH FIXT. FIXTURE FL. FLASHING FLR. FLOOR F.D. FLOOR DRAIN FLOR. FLUORESCENT FTG. FOOTING FOUNDATION FR. FRAME F.H.C. FIRE HOSE CAB. FIELD VERIFY FV. GA. GAUGE GLASS / GLAZING GD. GRADE

FND

GL.

GRL. GRD.

H.R.

HDN.

HDW.

H.P.

IN.

LD.

INT.

INV.

K.P.

LAM. LB.

LDG.

LTH. LAV.

LG.

LOC.

LVR.

LOC.

M.O.

MB.

M.L.

М.

MIN.

O.C.

O.D.

MULL.

MAT'L..

LT.

GRAM GRILLE GRID GND. GROUND G.S. GYP. GALVANIZED STEEL GYPSUM GWB/G.B. GYPSUM BOARD

HAND RAIL HARDENER HARDWARE HDWD. HARDWOOD HTR. HEATER HT. HEIGHT

HIGH POINT H.M. HOLLOW META HORIZ. HORIZONTAL HOSE BIB H.B. H.W. HOT WATER

INCH / INCHES INSIDE DIAMETER INSUL. INSULATION INTERIOR INVERT

JAN. JANITOR JT. JST. JOINT JOIST

KICK PLATE LAMINATED POUND LANDING LATH LAVATORY LENGTH LOCATION

LIGHT L.W.C. LIGHT WEIGHT CONCRETE LOUVER LOCATION MASONRY OPENING MATERIAL

MFR. MANUFACTURER MARKER BOARD MAX. MAXIMUM MECH. MECHANICAL MTL. METAL METAL LATH METER MINIMUM MLDG. MOLDING

N.G. NATURAL GRADE NOM. NOMINAL N.I.C. NOT IN CONTRACT N.T.S. NOT TO SCALE NO. / # NUMBER

MULLION

OBS. OBSCURE ON CENTER OPN'G. OPENING O.A. OVERALL OUTSIDE DIAMETER O.F.S. OVERFLOW SCUPPER O.F.D. OVERFLOW DRAIN O.H.D. OVERHEAD DOOR

PTD. PAINTED PG. PAGE PLAM. PLASTIC LAMINATE PR. PAIR PNL. PANEL PTN. PARTITION d PENNY PLATE PL PLBG. PLUMBING PLYWD. PLYWOOD PT. POINT P.S.I. POUNDS PER SQ. IN P.S.F. POUNDS PER SQ. FT. P.C. PRECAST P.L. PROPERTY LINE

RISER, RISERS RAD. RADIUS R.D. ROOF DRAIN RB. RESILIENT BASE REFER TO REG. REGISTER REQ'D. REQUIRED REV. REVISION RF'G. ROOFING RGH. ROUGH RM. ROOM

R.

RE.

ST.

RND. ROUND R.O. ROUGH OPENING SCHED. SCHEDULE S.C. SEALED CONCRETE

SCR. SCREW SECT. SECTION SEL. SELECT SHG. SHEATHING SHT. SHEET SDG. SIDING SIM. SIMILAR SLDG. SLIDING SMOOTH SM. SPEC. SPECIFICATION SQUARE SQ.

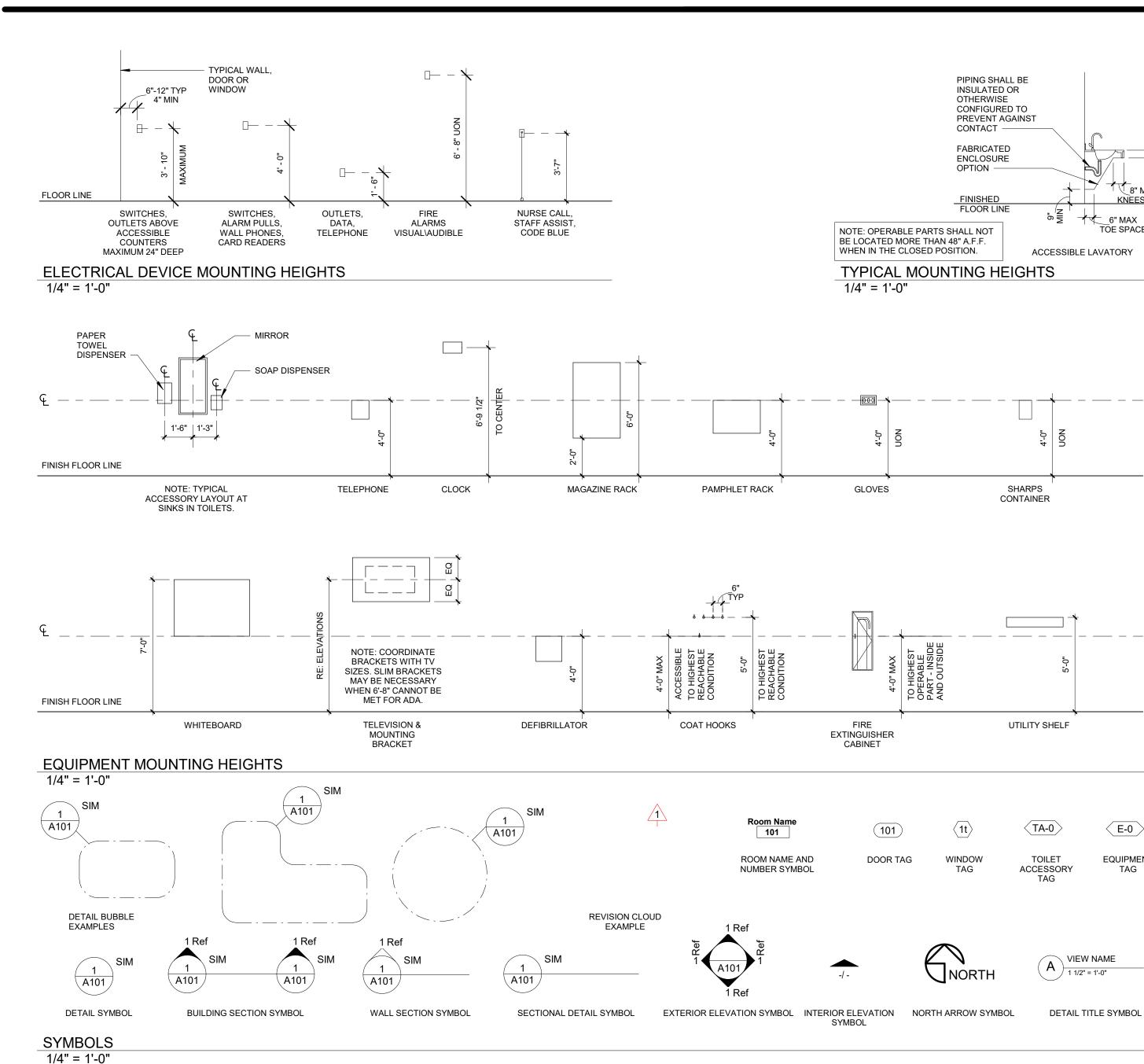
STAINED STD. STANDARD S.S. / ST.STL. STAINLESS STEEL STRUC. STRUCTURE SUSP. SUSPENDED SW.BD. SWITCHBOARD SYS. SYSTEM

TREAD T.C. TOP OF CURB T.G. TEMPERED GLASS T.O. TOP OF T.S.D. TOP OF STEEL DECK T.W. TEACHERS WARDROBE TYP. TYPICAL

U.O.N. UNLESS OTHERWISE NOTED V. VENT

VERT. VERTICAL V.G. VERTICAL GRAIN VEST. VESTIBULE V.C.T. VINYL COMPOSITION TILE VCP VITREOUS CLAY PIPE W.W.M. WELDED WIRE MESH W.C. WATER CLOSET

W.H. WATER HEATER W.F. WIDE FLANGE W/ WITH W/O WITHOUT WD. WOOD WDW. WINDOW W.W. WINDOW WALL



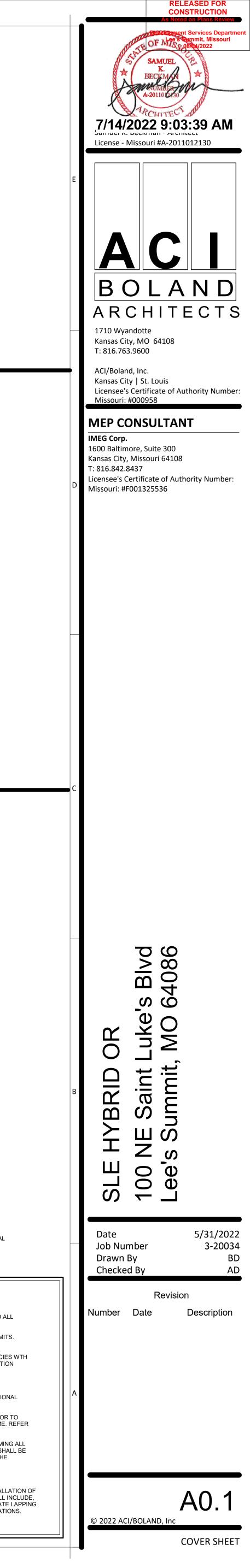
# Baint Luke's **EAST HOSPITAL**

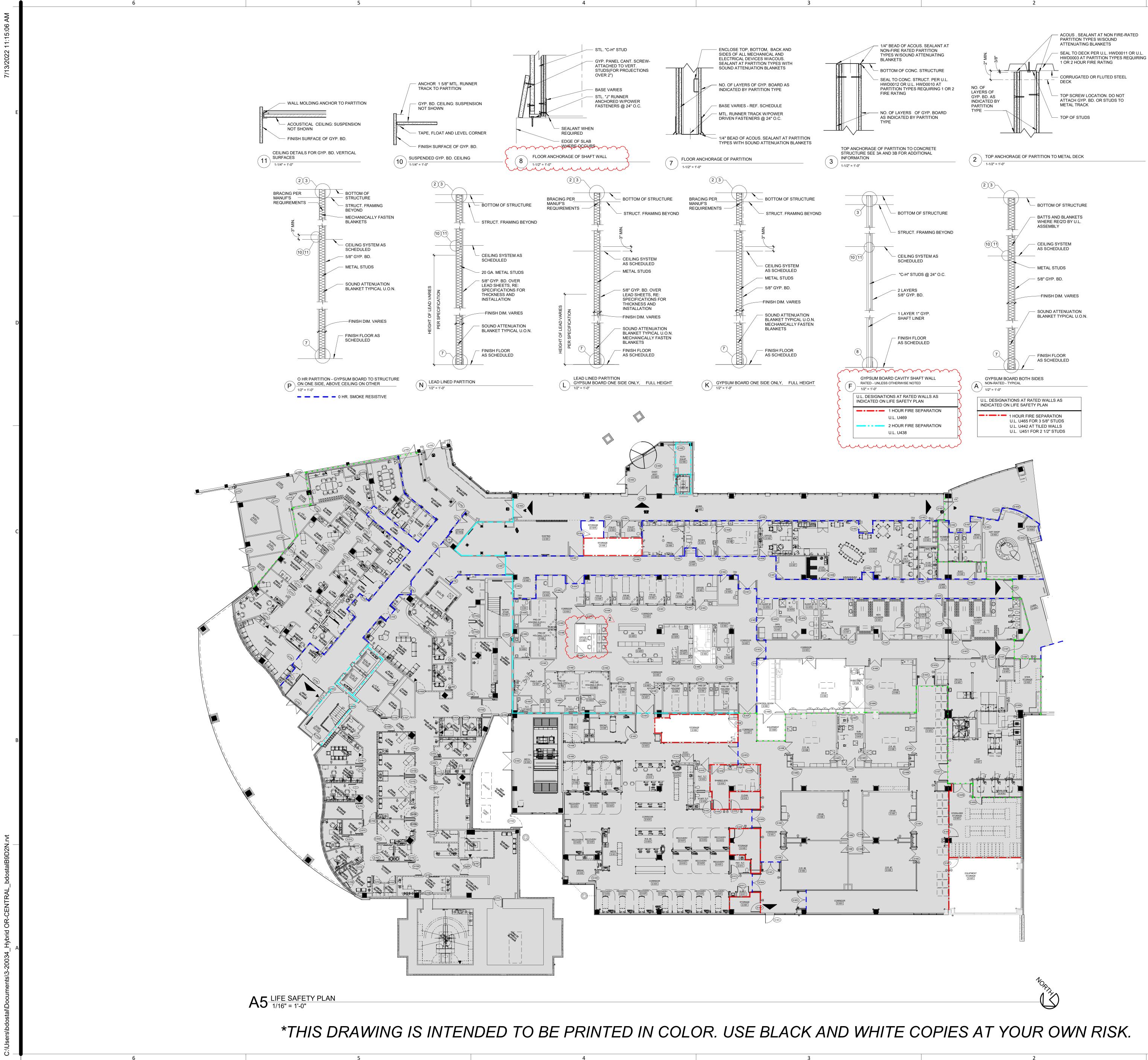
PROJECT AREAS BUILDING A - FIRS B С D LOCATION PLAN



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

									SHEET NUMBER	SHEET INDEX
									GENERAL	
			_		TOWEL SLOT				A0.1 A0.2 A0.3	COVER SHEET CODE FOOTPRINT PLAN U.L. DESIGN ASSEMBLIES
		4-0" MAX	TO HIGHEST OPERABLE PART OF DISPENSER	>	4-0 MAX O HIGHEST DPERABLE PART OF IISPENSER				DEMOLITION AD2.1	DEMOLITION PLAN
MIN <u>SPAC</u> E		CCESSIBLE SC DISPENSER	DAP	ACCES PAPER TOWEL	SIBLE				ARCHITECTURE A2.1 A2.2 A2.3 A3.1 A4.1 A4.2 A7.1	FIRST FLOOR OVERALL PLAN ENLARGED PLANS 2ND FLOOR PLANS FIRST FLOOR REFLECTED CEILING PLAN DOOR AND FRAME SCHEDULE AND DETAILS ROOM FINISH SCHEDULE & FINISH LEGEND INTERIOR ELEVATIONS & DETAILS
									PLUMBING P000 P111 P121 P210 P211 P221 P600	PLUMBING + MEDICAL GAS COVERSHEET FIRST FLOOR DEMOLITION - PLUMBING FIRST FLOOR DEMOLITION - MED GAS UNDERSLAB - PLUMBING FIRST FLOOR - PLUMBING FIRST FLOOR - MED GAS PLUMBING SCHEDULES
_									MECHANICAL M000 M111 M121 M211 M221 M400 M500 M600 ME212	MECHANICAL COVERSHEET FIRST FLOOR DEMOLITION - VENTILATION FIRST FLOOR DEMOLITION - PIPING FIRST FLOOR - VENTILATION FIRST FLOOR - PIPING MECHANICAL DETAILS TEMPERATURE CONTROL MECHANICAL SCHEDULES SECOND/THIRD FLOOR - VENTILATION/POWER
	<u>GENERAL I</u>	NOTES:							ELECTRICAL E000 E101 E111 E121 E201 E211 E221 E400	ELECTRICAL COVERSHEET FIRST FLOOR DEMOLITION - LIGHTING FIRST FLOOR DEMOLITION - POWER FIRST FLOOR DEMOLITION - SYSTEMS FIRST FLOOR - LIGHTING FIRST FLOOR - DOWER FIRST FLOOR - SYSTEMS LIGHTING DETAILS & SCHEDULES
_	INCHES FR A CIRCULA CLEARANC 2. GENERA RETARDAN EQUIPMEN PLYWOOD REQUIRED	ECTS PROJEC OM THE FINISI TION PATH SH E OF LESS TH L CONTRACTC IT WOOD BLOO T OVER 50LBS FOR EQUIPME FOR THE MOL	HED FACE O ALL NOT HA AN 80" (6'-8") OR TO INSTAI CKING FOR A AND FIRE R NT UNDER 5	F WALL INTO VE A HEAD ). LL FIRE ALL RETARDANT 50 LBS, AS					VENDER SIEMENS STRYKER PRICE ULTRASUITE	SIEMENS PHENO MACHINE STRYKER EQUIPMENT BOOM PRICE ULTRASUITE LAMINAR DIFFUSER - DEFERRED SUBMITTAL
-	EQUIPMEN'	Ι.							GE	NERAL NOTES
								1.	ALL WORK SHALL BE P	ERFORMED IN ACCORDANCE WITH A.D.A. REQUIREMENTS AND A ATE, AND FEDERAL BUILDING CODES AND REGULATIONS.
>		$\oplus$						2. 3.	THE GENERAL CONTRA CONDITIONS AND NOTI	RESPONSIBLE FOR OBTAINING ALL NECESSARY BUILDING PERMI CTOR AND SUBCONTRACTORS SHALL FIELD VERIFY EXISTING FY THE ARCHITECT OF ANY INCONSISTENCIES OR DISCREPANCIE
ENT	(AA) WALL	SPOT	POWE	RACTUATOR	PROX READER	PROX READER		4.		ENTS. ACCESS TO THE SITE AND/OR SPACE UNDER CONSTRUCTION CONSTRUCTION SHALL BE COORDINATED WITH THE OWNER.
	TYPE SYMBOL	ELEVATION				W/ POWER ACTUATOR		5.	THE WORD "ALIGN" AS INFORMATION GIVEN.	USED IN THESE DOCUMENTS SHALL SUPERSEDE ANY DIMENSIO
								6.	COLUMN CENTERLINE.	ARE TO FACE OF CONCRETE, DRYWALL, CURTAIN WALL, ETC., OF DIMENSIONS AT WINDOWS ARE TYPICALLY TO FACE OF FRAME. ADDITIONAL INFORMATION.
_	A1 <u>VIEW NAME</u> 1/8" = 1'-0"		#	(#)		DH		7.	SUBSTRATE CONDITIO SMOOTH AND FREE OF FINISHED MATERIAL MA	CTOR SHALL BE RESPONSIBLE FOR EXAMINING AND CONFIRMIN NS WHERE NEW MATERIALS ARE APPLIED. THE SUBSTRATE SH DEFECTS AND SHALL CONFORM TO THE REQUIREMENTS OF THE ANUFACTURERS RECOMMENDATIONS.
-	STANDARD VIEV	N TITLE	KEYNOTE	SYMBOLS	REVISION SYMBOL	MAGNETIC DOOR HOLD	_	8. 9.	THE GENERAL CONTRA THROUGH-WALL FLASH BUT IS NOT LIMITED TO	ACTOR SHALL BE RESPONSIBLE FOR CLEAN-UP. ACTOR SHALL INSPECT AND CHECK THE ADEQUACY AND INSTALL HING PRIOR TO COVERING WITH FINISH MATERIALS. THIS SHALL INSPECTION AGAINST HOLES OR PENETRATIONS, APPROPRIAT ERALL WORKMANSHIP IN CONFORMANCE WITH THE SPECIFICAT
					2					1

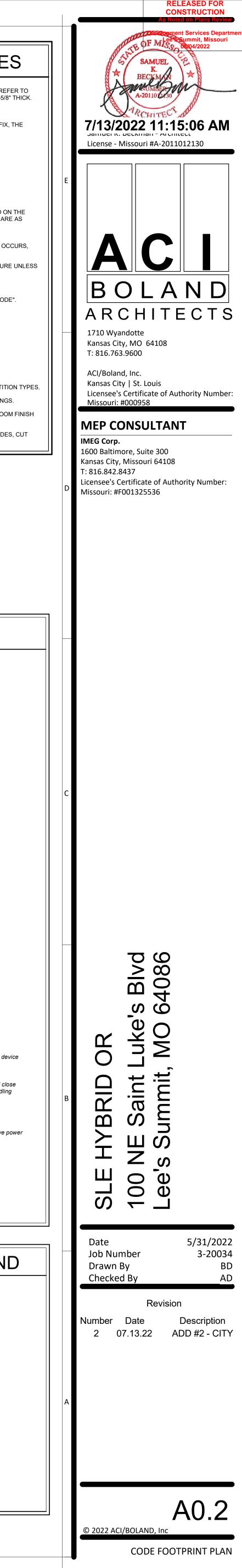




PA	RTITI	ON GENERA	L NOTE
SUFF NOTE	IX SCHEDULE BE	RWISE, ALL INTERIOR METAL STUDS LOW FOR LOCATIONS OF METAL STU SS (GAUGE) MUST CONFORM TO MAI FOR SPAN (HEIGHT OF STUD)	JDS OTHER THAN 3-5/8
		N TYPE INDICATION IS SHOWN WITH SS SHALL BE AS SCHEDULED BELO	
	SUFFIX MTL	. STUD THICKNESS	
	1	1-5/8" MTL. STUDS	
	2	2-1/2" MTL. STUDS	
	3	6" MTL. STUDS	
FLOC	R PLAN DRAWING	RWISE, ALL INTERIOR DRYWALL PAF G ARE TYPE 'A' PARTITIONS. WHERE E SAFETY PLANS.	
INDIC	ATED ON THE FL	RWISE, ALL INTERIOR MASONRY PAF OOR PLAN DRAWING ARE TYPE 'B' P. CATED ON THE LIFE SAFETY PLANS.	
	STUDS ARE CONT ED OTHERWISE.	INUOUS FROM FLOOR STRUCTURE 1	TO CEILING STRUCTUR
6. META	AL STUDS ARE SP	ACED @ 16" O.C. MAX., UNLESS NOT	ED OTHERWISE.
7. UNLE	SS NOTED OTHE	RWISE, ALL GYPSUM BOARD IS TO B	E 5/8" THICK "FIRECOD
A CH/ PART INDIC	LOCATION OF ANGE IN THE TITION TYPE IS CATED BY A L TAG.		
9. THE (	CORRESPONDING	RATED ASSEMBLIES ARE INDICATE	D BELOW THE PARTIT
10. PART	TITION TYPE DESI	GNATIONS ARE INDICATED ON THE F	LOOR PLAN DRAWING
	TITION TYPES DO EDULE.	NOT INCLUDE APPLIED FINISHES CA	LLED FOR IN THE ROO
		WHERE MTL. STUDS ARE EXPOSED ( SCREW BOTH SIDES TO MTL. RUNN	

CODE	ESUMMARY
Project Construction Purpose: Hyb	orid 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
2012 NFPA 101 Life Safety Code (LS	Environment references the following codes: SC) onstruction of Hospitals & Outpatient Facilities
<u>Owner Information</u> 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 Sum Local Building Inspection:Lee's Sum	mit Fire Department mit, 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
<u>Occupant Load</u> : Institutional Outpatient Total Square Footage:	100 gross Table 1004.5 2500 SF / 100 = 25 occupants total
Required Fire Resistance Ratings Per NFPA 101 A.8.2.1.2:	(in hours)
Exterior Bearing Walls	3 HR 3 HR
Interior Bearing Walls Primary Structural Frame	3 HR
Floor Construction Roof Construction	2 HR 1 1/2 HR
Interior non-bearing walls	0 HR
Active Fire Safety Features: - Fire Alarm System - The fire alarm type and locations are per the applic	system is specified as an addressable type system. The devic able codes as well as ADA requirements.
combination fire/smoke damper as in	ork penetrating smoke rated walls will have a smoke or ndicated on construction documents. These dampers will close smoke detectors or duct smoke detectors in the air handling
- Fire Sprinkler System - Specified to	be per NEPA 13
The sprinkler heads are specified to	
- Emergency Lighting and Power - E from a backup generator located out	mergency lighting, life safety and critical loads will receive pow side the main electrical room.
- Illuminated Exit Signs	
Passive Fire Safety Features:	
- Smoke Compartments no greater th	han 22,500 SF
[	
CODE FC	DOTPRINT 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



#### ONLINE CERTIFICATIONS DIRECTORY

#### Design No. U465 BXUV.U465 Fire-resistance Ratings - ANSI/UL 263

Page Bottom
Design/System/Construction/Assembly Usage Disclaimer
Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation

fied products, equipment, system, devices, and materials Authorities Having Jurisdiction should be consulted before construction. Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compapplicable requirements. The published information cannot always address every construction nuance encountered in the f
 When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the provided b manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Informat product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials

• Only products which bear UL's Mark are considered Certified. BXUV - Fire Resistance Ratings - ANSI/UL 263

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Cana

See General Information for Fire-resistance Ratings - ANSI/UL 263 See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada Design No. U465 August 25, 2016 Nonbearing Wall Rating — 1 HR. \* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certif as Canada), respectively

aan 1. Floor and Ceiling Runners – (Not Shown) – Channel shaped runners, 3-5/8 in. deep (min), 1-1/4 in. legs, f from min No. 25 MSG galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

1A. Framing Members\* – Floor and Ceiling Runners – (Not Shown) – As an alternate to Item 1 – Channel nin 3-5/8 in. deep, attached to floor and ceiling with fasteners 24 in. OC. I ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME Framing System

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV - Type SUPREME Framing System

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME Framing System

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME Framing System **STEEL CONSTRUCTION SYSTEMS INC** — Type SUPREME Framing System

UNITED METAL PRODUCTS INC — Type SUPREME Framing System

1B. Framing Members\* – Floor and Ceiling Runners – Not Shown – In lieu of Item 1 – For use with Item proprietary channel shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick gal attached to floor and ceiling with fasteners spaced 24 in. OC max.

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™ Track

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20<sup>™</sup> Track

1C. Floor and Ceiling Runners — (Not Shown) — For use with Item 2C — Channel shaped, fabricated from min corrosion-protected or galv steel, min depth to accommodate stud size, with min 1 in. long legs, attached to floor ceiling with fasteners spaced max 24 in. OC. 1D. Framing Members\* - Floor and Ceiling Runners - Not Shown - In lieu of Items 1 through 1C - For a

Item 2D and 4G only, proprietary channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. CLARKDIETRICH BUILDING SYSTEMS - CD ProTRAK

DMFCWBS L L C - ProTRAK

MBA METAL FRAMING — ProTRAK

**CRACO MFG INC** — SmartTrack20<sup>™</sup>

RAM SALES L L C — Ram ProTRAK

STEEL STRUCTURAL PRODUCTS L L C - Tri-S ProTRAK

1E. Framing Members\* - Floor and Ceiling Runners - Not Shown - In lieu of Items 1 through 1D - For the second seco Item 2E and 4I only, proprietary channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. TELLING INDUSTRIES L L C — TRUE-TRACK™

1E. Framing Members\* — Floor and Ceiling Runners — Not Shown — In lieu of Items 1 through 1E — For deep by min 3-5/8 in. wide fabricated from min 25 MSG steel, attache and ceiling with fasteners spaced 24 in. OC max. **KIRII (HONG KONG) LTD** — Type KIRII

1G. Framing Members\* - Floor and Ceiling Runners - Not Shown - In lieu of Items 1 through 1F - For u Item 2, channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide, attached to floor and ceiling with fastener 24 in. OC max. STUDCO BUILDING SYSTEMS — CROCSTUD Track

1H. Floor and Ceiling Runners – (Not Shown) – Channel shaped, fabricated from min 0.02 in. galv steel, mi accommodate stud size, with min 1 in. long legs, for use with studs specified below and fabricated from min 0.0 steel or thicker, attached to floor and ceiling with fasteners spaced max 24 in. OC. MARINO/WARE, DIV OF WARE INDUSTRIES INC - Viper20<sup>™</sup> Track VT100

11. Framing Members\* – Floor and Ceiling Runners – Not Shown – In lieu of Item 1 – For use with Item channel shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv attached to floor and ceiling with fasteners spaced 24 in. OC max. **TELLING INDUSTRIES L L C** − Viper20<sup>TM</sup> Track 2. Steel Studs - Channel shaped, 3-5/8 in. deep (min), formed from min No. 25 MSG galv steel spaced 24 in. O

tuds to be cut 3/4 in. less than assembly height 2A. Framing Members\* – Steel Studs – As an alternate to Item 2 – Channel shaped studs, min 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height. ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME Framing System

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV - Type SUPREME Framing System QUAIL RUN BUILDING MATERIALS INC — Type SUPREME Framing System

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME Framing System

**STEEL CONSTRUCTION SYSTEMS INC** — Type SUPREME Framing System

UNITED METAL PRODUCTS INC — Type SUPREME Framing System

2B. Framing Members\* – Steel Studs – Not Shown – In lieu of Item 2 – For use with Item 1B, proprietary 1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cu less in length than assembly height. CALIFORNIA EXPANDED METAL PRODUCTS CO − Viper20<sup>™</sup>

CRACO MFG INC — SmartStud20<sup>™</sup>

MARINO/WARE, DIV OF WARE INDUSTRIES INC - Viper20™

2C. **Steel Studs** – (As an alternate to Item 2, For use with Item 4E) – Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, 3-1/2 in. min depth, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height. 2D. Framing Members\* - Steel Studs - As an alternate to Items 2 through 2C - For use with Item 1D and 4G only, annel shaped studs, min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, spaced a max of 24 in. OC. Studs to be cut 1/2 in. less than assembly height.

CLARKDIETRICH BUILDING SYSTEMS - CD ProSTUD

DMFCWBS L L C - ProSTUD

MBA METAL FRAMING — ProSTUD

RAM SALES L L C — Ram ProSTUD

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProSTUD

2E. Framing Members\* — Steel Studs — As an alternate to Items 2 through 2D — For use with Item 1E and 4I only, channel shaped studs, min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, spaced a max of 24 in. OC. Studs

to be cut 1/2 in. less than assembly height. TELLING INDUSTRIES L L C — TRUE-STUD™

2E. Framing Members\* — Steel Studs — As an alternate to Items 2 through 2E — For use with Item 1E, channel shaped studs, min 3-5/8 in. wide fabricated from min 25 MSG steel, spaced a max of 24 in. OC. Studs to be cut 1/2 in. less than assembly height. **KIRII (HONG KONG) LTD** – Type KIRII

	4	3
		CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type LGFC6A, LGFC
	2G. Framing Members* – Steel Studs – Not Shown – In lieu of Item 2 through 2F – For use with Item 1G. Proprietary channel shaped studs, minimum 3-5/8 in. wide, Studs to be cut 1/2 in. less than the assembly height. STUDCO BUILDING SYSTEMS – CROCSTUD	NATIONAL GYPSUM CO — Types FSW
	2H. Framing Members* — Steel Studs — Not Shown — In lieu of Item 2 — For use with Item 1I, proprietary channel	UNITED STATES GYPSUM CO - Type SCX
	shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height. TELLING INDUSTRIES L L C — Viper20 <sup>™</sup>	<b>USG BORAL ZAWAWI DRYWALL L L C SFZ</b> — Type SCX
n and use of UL	2I. Framing Members* — Steel Studs — In lieu of Item 2 — For use with Item 1, channel shaped studs, fabricated	4H. <b>Gypsum Board* —</b> (As an alternate to Items 4 through 4G) — Nominal 5/8 in. thic
mpliance with e field. product	from min 25 MSG corrosion-protected steel, 3-5/8 in. deep (min), spaced 24 in. OC max. Studs to be cut 3/4 in. less than assembly height.  EB MéTAL INC — EB Stud	vertically and secured as described in Item 4. <b>PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM</b> — Type QuietRock ES
tion for each and alternate	2J. Framing Members* — Steel Studs — In lieu of Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, 3-5/8 in. deep (min), spaced 24 in. OC max. Studs to be cut 3/4 in. less than assembly height. OLMAR SUPPLY INC — PRIMESTUD	<ul> <li>4I. Gypsum Board* — (As an alternate to Items 4 through 4F) — For use with Items 1 wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S steel scn of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered assembly.</li> <li>UNITED STATES GYPSUM CO — Type SCX</li> </ul>
nada	2K. Framing Members* — Steel Studs — As an alternate to Item 2 — For use with Item 1B (3-5/8 in. wide track), channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, 1-1/4 in. wide by 3-5/8 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height. MARINO/WARE, DIV OF WARE INDUSTRIES INC — StudRite™	<b>USG BORAL ZAWAWI DRYWALL L L C SFZ</b> — Type SCX 4J. <b>Gypsum Board*</b> — (Not Shown) — (As an alternate to Item 4 when used as the ba wall. For direct attachment only to steel studs Item 2C) — Nom 5/8 in. thick lead backet
	3. Batts and Blankets* — (Optional) — Mineral wool or glass fiber batts partially or completely filling stud cavity.	square or tapered edges, applied vertically. Vertical joints centered over studs and stage opposite sides of studs. Gypsum board secured to studs with 1-1/4 in. long Type S-12 s perimeter and 12 in. OC in the field. To be used with Lead Batten Strips (see Item 9A) of
rtification (suc	See <b>Batts and Blankets</b> (BZJZ) category for names of Classified companies. 3A. <b>Fiber, Sprayed*</b> — As an alternate to Batts and Blankets (Item 3) — (100% Borate Formulation) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft <sup>3</sup> . Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft <sup>3</sup> , in accordance with the application instructions supplied with the product. <b>U S GREENFIBER L L C</b> — INS735& INS745 for use with wet or dry application. INS765LD and INS770LD are to be used	MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum 4K. Gypsum Board* — (As an alternate to Item 4 and 4A, not for use with Items 1D, 1 thick gypsum panels with beveled, square or tapered edges installed as described in Iter CGC INC — Type ULX
	for dry application only 3B. <b>Fiber, Sprayed* —</b> As an alternate to Batts and Blankets (Item 3) and Item 3A — Spray applied cellulose insulation	UNITED STATES GYPSUM CO — Type ULX
	material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft.	<b>USG MEXICO S A DE C V</b> — Type ULX 4L. <b>Gypsum Board* —</b> (Not Shown) — (As an alternate to Item 4 when used as the ba
, formed	3C. <b>Fiber, Sprayed*</b> — As an alternate to Batts and Blankets (Item 3) — Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft <sup>3</sup> . <b>INTERNATIONAL CELLULOSE CORP</b> — Celbar-RL	wall. For direct attachment only to steel studs Item 2C). Nom 5/8 in. thick lead backed square or tapered edges, applied vertically. Vertical joints centered over studs and stagg opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behi gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in thickness of 0.14 in. placed on the face of studs and attached to the stud with construct Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of t in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and the stude to the screw heads. Lead batten strips are strip and the stude to the screw heads. Lead batten strips are strip and the screw heads. Lead batten strip and the screw heads.
el shaped,	3D. Batts and Blankets* — For use with Item 8. Nom 3 in. thick, minimum 3.4 pcf mineral wool batts, friction fit between the studs and floor and ceiling runners.	a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall
	See <b>Batts and Blankets</b> (BZJZ) category for names of manufacturers. 3E. <b>Batts and Blankets*</b> — For use with Item 4P. Placed in stud cavities, any min. 3-1/2 in. thick glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance.	4M. Gypsum Board* — (For use with Item 8) — 5/8 in. thick, 4 ft wide, applied vertica (Item 8) with vertical joints located anywhere over stud cavities. Secured to mineral and G Screws spaced 8 in. OC along edges of each vertical joint and 12 in. OC in intermedia
	See <b>Batts and Blankets</b> (BKNV or BZJZ) Categories for names of Classified companies. 4. <b>Gypsum Board*</b> — 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced 8 in. OC. along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly. When attached to Items 6 (resilient channels) or 6A, 6B or 6C (furring channels), gypsum board is screw attached to furring channels with 1 in. long, Type S steel screws spaced 12 in. OC.	Board (Item 8). Secured to outermost studs and floor and ceiling runners with 2 in. long Gypsum Board joints covered with paper tape and joint compound. Screw heads covered AMERICAN GYPSUM CO — Type AG-C
	ACADIA DRYWALL SUPPLIES LTD — Type X, 5/8 Type X, Type Blueglass Exterior Sheathing AMERICAN GYPSUM CO — Types AG-C, AGX-1, M-Glass	CERTAINTEED GYPSUM INC — Type FRPC, Type C CGC INC — Types C, IP-X2, IPC-AR
	<b>BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO</b> — Type DBX-1	<b>CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C</b> — Type LGFC-C/A
i 2B, Ilv steel,	CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, USGX, WRC or WRX (Joint tape and compound, Item 5, optional for use with Type USGX)	<b>GEORGIA-PACIFIC GYPSUM L L C</b> — Types 5, DAPC, TG-C
	CERTAINTEED GYPSUM INC — Types 1, EGRG, GlasRoc, Type X, Type X-1, Type C, SilentFX, 5/8" Easi-Lite Type X	<b>NATIONAL GYPSUM CO</b> — Types eXP-C, FSK-C, FSW-C
	CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Types LGFC2A, LGFC6A, LGFC-C/A, LGFC-WD, LGLLX	PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-C
in 20 MSG	<b>GEORGIA-PACIFIC GYPSUM L L C</b> — Types 5, 6, 9, C, DAP, DD, DA, DAPC, DGG, DS, GPFS6, LS, Type X, Veneer Plaster Base - Type X, Water Rated - Type X, Sheathing - Type X, Soffit - Type X, TG-C, GreenGlass Type X, Type X	PANEL REY S A — Types PRC, PRC2
or and use with min	ComfortGuard Sound Deadening Gypsum Board, Type LWX, Veneer Plaster Base-Type LWX, Water Rated-Type LWX, Sheathing Type-LWX, Soffit-Type LWX, Type DGLW, Water Rated-Type DGLW, Sheathing Type- DGLW, Soffit-Type DGLW, Type LW2X, Veneer Plaster Base - Type LW2X, Water Rated - Type LW2X, Sheathing - Type LW2X, Soffit - Type LW2X, Type DGL2W, Water Rated - Type DGL2W, Sheathing - Type DGL2W	SAINT-GOBAIN GYPROC MIDDLE EAST FZE — Type Gyproc FireStop, Gyproc FireStop Gyproc FireStop ACTIV'Air, Gyproc FireStop MR ACTIV'Air, Gyproc FireStop M2TECH ACT DuraLine MR, Gyproc DuraLine M2TECH, Gyproc DuraLine ACTIV'Air, Gyproc DuraLine M M2TECH ACTIV'Air
	NATIONAL GYPSUM CO — Types eXP-C, FSK, FSK-C, FSK-G, FSMR-C, FSW-C, FSW-G, FSW, FSW-3, FSW-5, FSW-6, FSW-8, FSL	THAI GYPSUM PRODUCTS PCL — Type C
	PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types PG-C, PG-9, PG-11, PGS-WRS	<b>UNITED STATES GYPSUM CO</b> — Types C, IP-X2, IPC-AR
	PANEL REY S A — Types GREX, PRC, PRC2, PRX, RHX, MDX, ETX	USG BORAL ZAWAWI DRYWALL L L C SFZ — Type C
	SAINT-GOBAIN GYPROC MIDDLE EAST FZE — Type Gyproc FireStop, Gyproc FireStop MR, Gyproc FireStop M2TECH, Gyproc FireStop ACTIV'Air, Gyproc FireStop MR ACTIV'Air, Gyproc FireStop M2TECH ACTIV'Air, Gyproc DuraLine, Gyproc DuraLine MR, Gyproc DuraLine M2TECH, Gyproc DuraLine ACTIV'Air, Gyproc DuraLine MR ACTIV'Air, Gyproc DuraLine M2TECH ACTIV'Air	<ul> <li>USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR</li> <li>4N. Wall and Partition Facings and Accessories* — (As an alternate to Item 4) — N panels, applied vertically and secured as described in Item 4.</li> </ul>
use with min 0.018	SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1	PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 527
	THAI GYPSUM PRODUCTS PCL — Type X, Type C	40. Gypsum Board* — As an alternate to Items 4, 4A, 4B, and 4C — Two layers Nom. applied vertically or horizontally. Horizontal edge joints and horizontal butt joints on opp staggered or backed by steel framing. Horizontal joints on the same side need not be st horizontally, both layers of gypsum board fastened to each side of framing with 1 in. lor
ise with ed to floor	<b>UNITED STATES GYPSUM CO</b> — Type AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, USGX (Joint tape and compound, Item 5, optional for use with Type USGX)	in. OC and staggered 4 in. OC between layers. When applied vertically, both layers of gy of framing with 1 in. Iong Type 5 steel screws spaced 8 in. OC along vertical edges and in. OC between layers. Screws spaced a max 12 in. along the top and bottom edges of t
use with	<b>USG BORAL ZAWAWI DRYWALL L C SFZ</b> — Types C, SCX	NATIONAL GYPSUM CO — Type FSW 4P. Gypsum Board* — As an alternate to Item 4. For use with Item 3E, Batts and Bla
rs spaced	<ul> <li>USG MEXICO S A DE C V — Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, USGX, WRC or WRX (Joint tape and compound, Item 5, optional for use with Type USGX)</li> <li>4A. Gypsum Board* — (As alternate to Item 4) — Nom 5/8 in. thick gypsum panels with beveled, square or tapered</li> </ul>	attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws sp board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on When attached to item 6 (resilient channels) or 6A, 6B or 6C (furring channels), gypsun furring channels with 1 in. long, Type S steel screws spaced 12 in. OC.
n width to 2 in. galv	edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Panels attached to steel studs and floor runner with 1 in. long Type S steel screws spaced 8 in. OC when applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. When used in widths other than 48 in., gypsum panels to be installed horizontally. <b>CERTAINTEED GYPSUM INC</b> – Type X, Type X-1, Type C, Type EGRG/ GlasRoc	<ul> <li>UNITED STATES GYPSUM CO — Types ULIX</li> <li>5. Joint Tape and Compound — Vinyl, dry or premixed joint compound, applied in two paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an altern gypsum veneer plaster may be applied to the entire surface of Classified veneer basebo and joint compound may be omitted when gypsum boards are supplied with square edg</li> </ul>
2H, Ilv steel,	<b>CGC INC</b> — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, USGX, WRC or WRX (Joint tape and compound, Item 5, optional for use with Type USGX)	<ol> <li>Resilient Channel – (Optional – Not Shown) – 25 MSG galv steel resilient channel flange portion attached to each intersecting stud with 1/2 in. long type S-12 pan head s Item 4F or 4J.</li> <li>Steel Framing Members* – (Not Shown) – As an alternate to Item 6, furring characteristical tables)</li> </ol>
OC max. eep,	CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Types LGFC2A, LGFC6A, LGFC-C/A, LGFC-WD GEORGIA-PACIFIC GYPSUM L L C — Types DAP, DAPC, DGG, DS	as described below: a. <b>Furring Channels</b> — Formed of No. 25 MSG galv steel. 2-9/16 in. or in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to b. Ends of adjoining channels are overlapped 6 in. and tied together with
	SAINT-GOBAIN GYPROC MIDDLE EAST FZE — Type Gyproc FireStop, Gyproc FireStop MR, Gyproc FireStop M2TECH, Gyproc FireStop ACTIV'Air, Gyproc FireStop MR ACTIV'Air, Gyproc FireStop M2TECH ACTIV'Air, Gyproc DuraLine, Gyproc DuraLine MR, Gyproc DuraLine M2TECH, Gyproc DuraLine ACTIV'Air, Gyproc DuraLine MR ACTIV'Air, Gyproc DuraLine M2TECH ACTIV'Air	SWG galv steel wire near each end of overlap. As an alternate, ends of a overlapped 6 in. and secured together with two self-tapping No. 6 frami long at the midpoint of the overlap, with one screw on each flange of the b. Framing Members* — Used to attach furring channels (Item a) to s spaced 48 in. OC., and secured to studs with 1-5/8 in. wafer or hex hea through the center grommet. Furring channels are friction fitted into clip
	THAI GYPSUM PRODUCTS PCL — Type X, Type C	2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/3: channels. PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-1 (2.75)
	<b>UNITED STATES GYPSUM CO</b> — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, USGX (Joint tape and compound, Item 5, optional for use with Type USGX)	6B. <b>Framing Members*</b> — (Not Shown) — (Optional on one or both sides) — As an alt and Steel Framing Members as described below:
	USG BORAL ZAWAWI DRYWALL L L C SFZ — Types C, SCX	<ul> <li>a. Furring Channels — Formed of No. 25 MSG galv steel. 2-3/8 in. wid max. 24 in. OC perpendicular to studs. Channels secured to studs as des board attached to furring channels as described in Item 4.</li> <li>b. Steel Framing Members* — Used to attach furring channels (Item</li> </ul>
channel ıt 3/4 in.	<b>USG MEXICO S A DE C V</b> — Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, USGX, WRC or WRX (Joint tape and compound, Item 5, optional for use with Type USGX)	b. Steel Framing Members* — Used to attach furring channels (Item Clips spaced max. 48 in. OC. GENIECLIPS secured to studs with No. 8 x drilling, S-12 steel screw through the center grommet. Furring channels clips.
.,	4B. Gypsum Board* — (As an alternate to Items 4 or 4A) — Nom 3/4 in. thick, 4 ft wide, installed as described in Item 4A with screw length increased to 1-1/4 in. CGC INC — Types AR, IP-AR	PLITEQ INC — Type Genie Clip 6C. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel
		below:

UNITED STATES GYPSUM CO - Types AR, IP-AR

**USG MEXICO S A DE C V** — Types AR, IP-AR

**NATIONAL GYPSUM CO** — SoundBreak XP Type X Gypsum Board

4C. Gypsum Board\* – As an alternate to Items 4, 4A, and 4B – Nom. 5/8 in. thick gypsum panels, with square edges, applied horizontally. Gypsum panels fastened to framing with 1 in. long bugle head steel screws spaced a max 8 in. OC, with last 2 screws 3/4 in. and 4 in. from each edge of board. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs on interior walls need not be staggered or below the backed by steel framing. backed by steel framing. **GEORGIA-PACIFIC GYPSUM L L C** – Type DGG, GreenGlass Type X

4D. Gvosum Board\* — As an alternate to Items 4, 4A, 4B, and 4C — Nom. 5/8 in. thick gypsum panels applied vertically or horizontally. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Gypsum panels fastened to framing with 1 in. long Type S steel screws 8 in. OC along vertical edges and 12 in. OC in the field when panels are applied vertically. When gypsum panels applied horizontally, fasten to raming with 1 in. long Type S steel screws spaced 8 in. OC along vertical edges and in the field. Screws spaced a max 12 in. along the top and bottom edges of the wall for both vertical and horizontal applications. NATIONAL GYPSUM CO — Types eXP-C, FSK, FSK-C, FSK-G, FSL, FSW-C, FSW-G, FSW, FSW-3, FSW-5, FSW-6, FSW-8,

4E. Gypsum Board\* – (As an alternate to Items 4 through 4D) – Installed as described in Item 4. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically only and fastened to the studs and plates with 1 in. long, Type S steel screws spaced, 8 in, OC. Not to be used with item 6.

Blankets, Item 3D, and Adhesive, Item 11, are required.

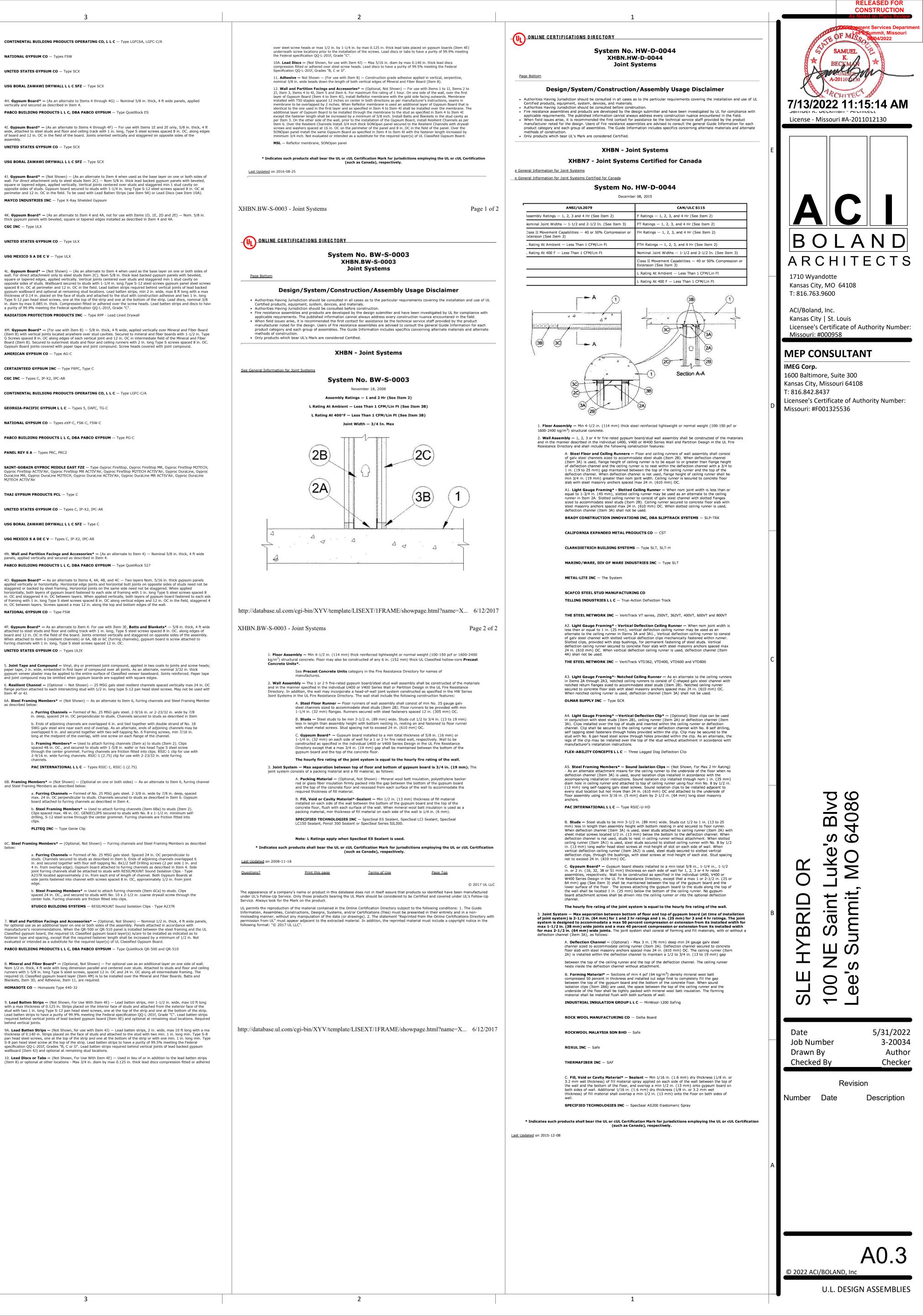
wallboard (Item 4J) and optional at remaining stud locations.

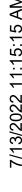
HOMASOTE CO — Homasote Type 440-32

behind vertical joints.

4F. **Gypsum Board\*** — (Not Shown) — (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C) - Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. RAY-BAR ENGINEERING CORP — Type RB-LBG

4G. **Gypsum Board\*** — (As an alternate to Items 4 through 4F) — For use with Items 1D and 2D only, 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced 8 in. OC. along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly





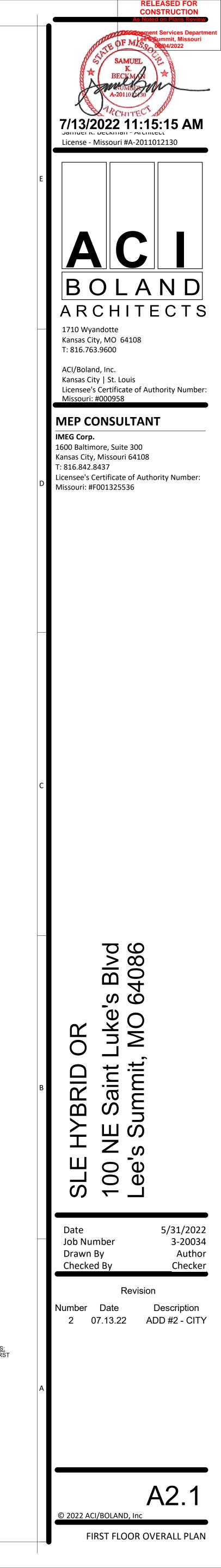


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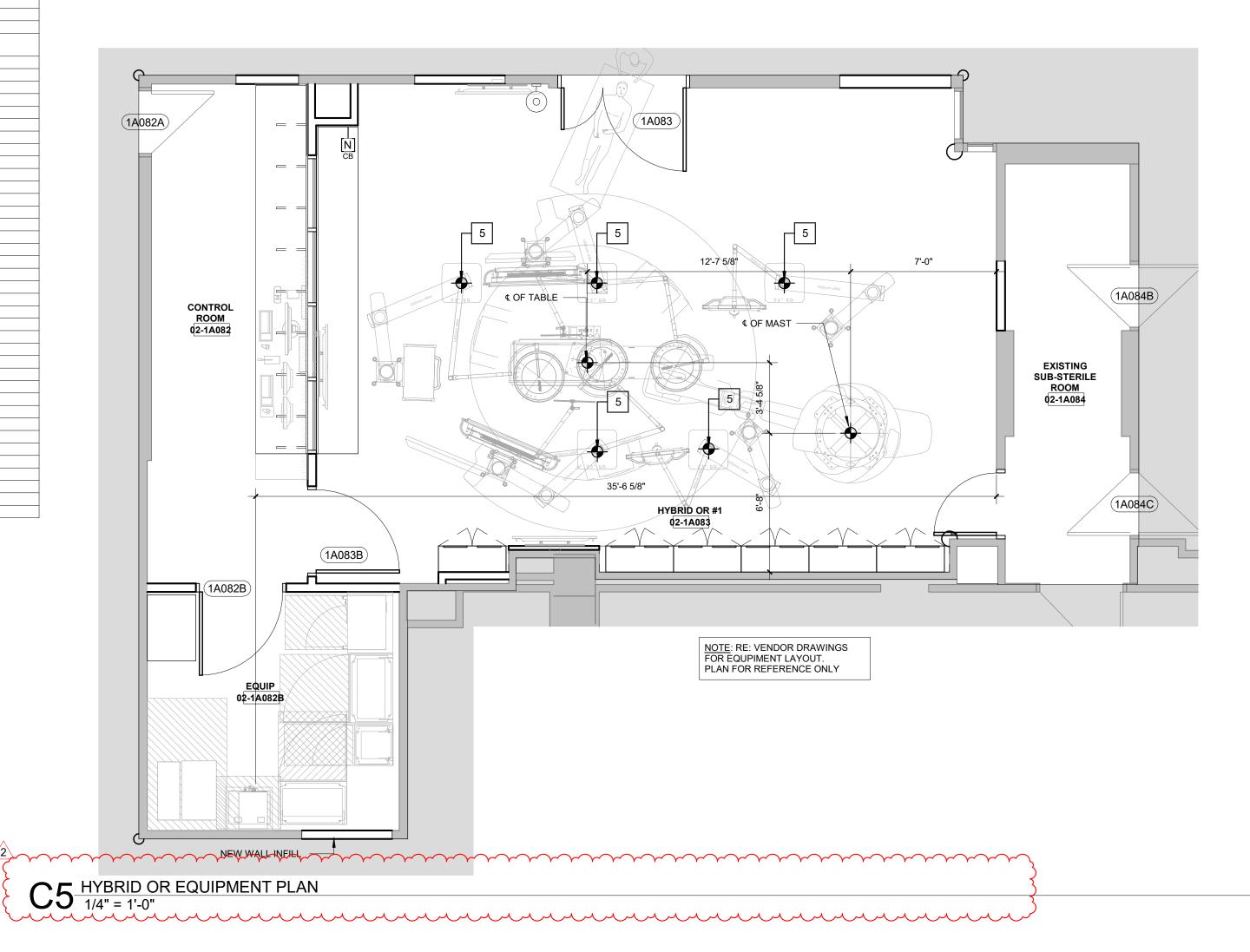
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₀ F ∽∕ E PROJECT AREAS: BUILDING A - FIRST FLOOR 

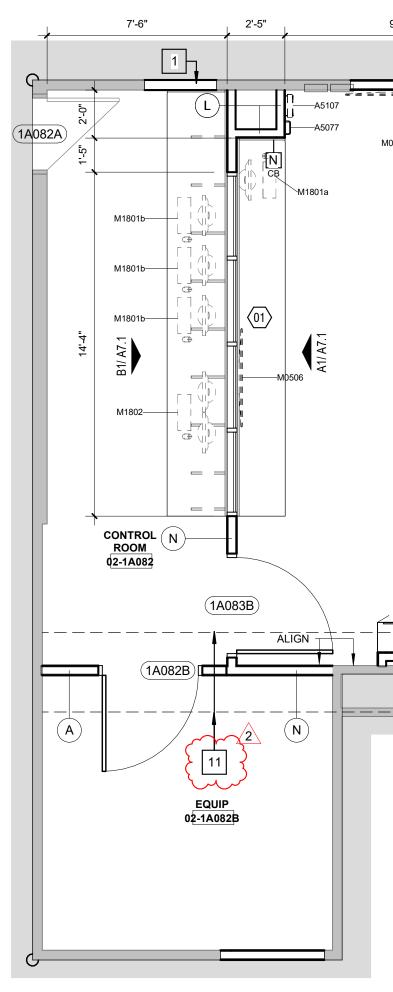


# FFF SCHEDULE

	FFE SC	JHEDU	JLE
JSN	DESCRIPTION	RESPONSIBILITY	COMMENTS
	LEICA CM MACHINE	VEVI	
A4015			REINSTALLED FROM EXISTING OR
A4015 A5075	SOAP DISPENSER	OFOI	REINSTALLED FROM EXISTING OR
A5075 A5077	Dispenser, Hand Sanitizer	OFOI	
A5077 A5082	PAPER TOWEL DISPENSER	OFOI	
A5082 A5107	GLOVE BOX	OFCI	
E0222	48" WORK STATION WITH UPPER	VFCI	BY J.A. MARSHALL
<b>E</b> 0000	CABINETS	0501	
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	
M0506	Monitor, Television	OFCI	
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"x44"	OFOI	
U1001	SHOULDER POSITIONER	OFOI	
U1002	OPTHALMOLOGY LIGHT	OFOI	
U1003	LIPOSUCTION TOWER	OFOI	
U1004	ALLY UTERINE POSITIONER	OFOI	
U1005	MINI C-ARM	OFOI	
U1006	PNEUMATIC TOURNIQUET	OFOI	
U1007	SPARQ ULTRASOUND	OFOI	
U1008	MOBILE MONITOR CART	OFOI	
U1009	AQUILEX FLUID CONTROL SYSTEM	OFOI	
U1010	STERIS SURGICAL TABLE	OFOI	
U1011	VERSANA PREMIER ULTRASOUND UNIT	OFOI	
U1012	ORTHO GLASS CART	OFOI	
U1012	MEDTRONIC IPC	OFOI	
U1014	MIZUHOSI POSITIONER	OFOI	
U1015	LEICA MICROSCOPE	OFOI	
U1016	STRYKER SPY PHI TOWER	OFOI	
U1010	TRIDENT TOWER	OFOI	
U1018	OLYMPUS SHCOK-PULSE UNIT	OFOI	
U1019	AQUAMANTYS SYSTEM	OFOI	
U1020	BACK TABLE	OFOI	
U1020	OLYMPIC PLASMA BUTTON TOWER	OFOI	
U1021	CAUTERY CART	OFOI	
U1022	NOVASURE TOWER	OFOI	
U1024	FUSION ENT NAVIGATION TOWER	OFOI	
U1025		OFOI	
U1026		OFOI	
U1027	BERKLEY SUCTION D&C MACHINE	OFOI	
U1028	STEPPER/ POSITIONER	OFOI	
U1029		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	

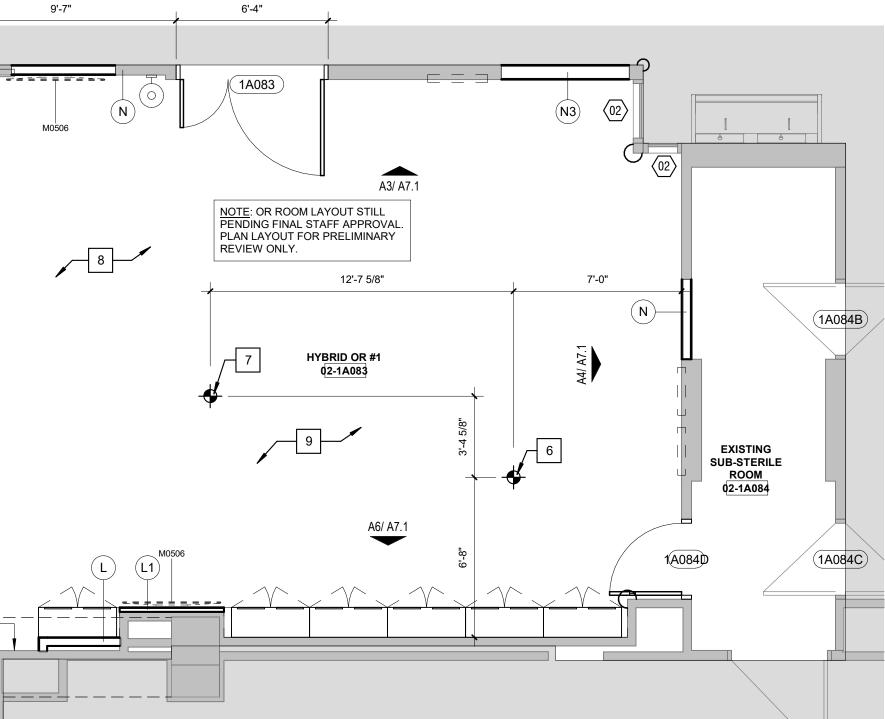


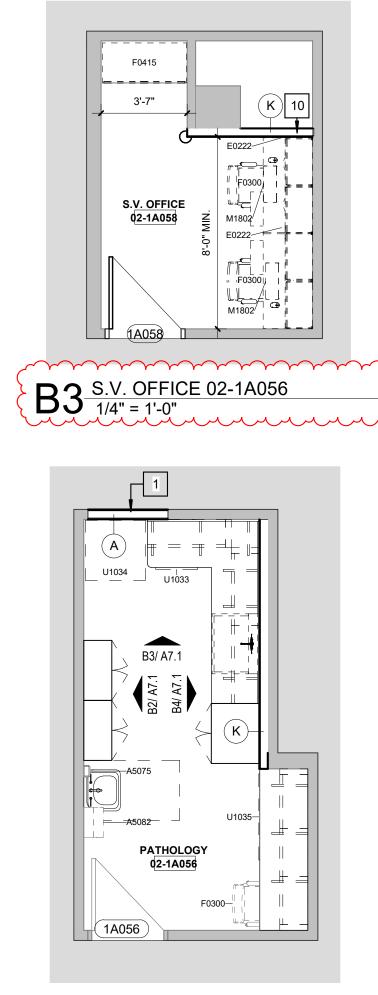
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A5 HYBRID OR PLAN 1A083

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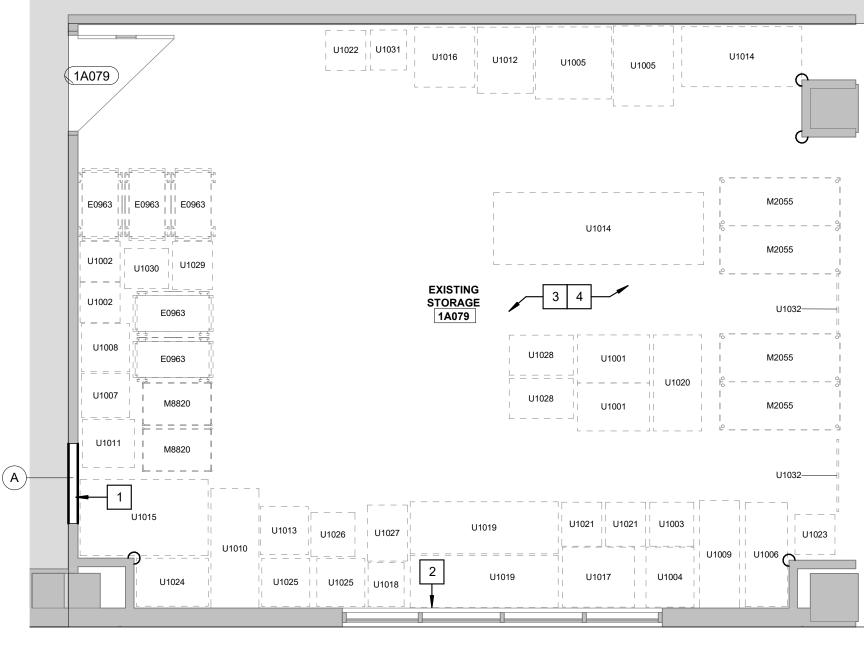
A3 PATHOLOGY ROOM 1A056 1/4" = 1'-0"

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

M2055

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

M2055

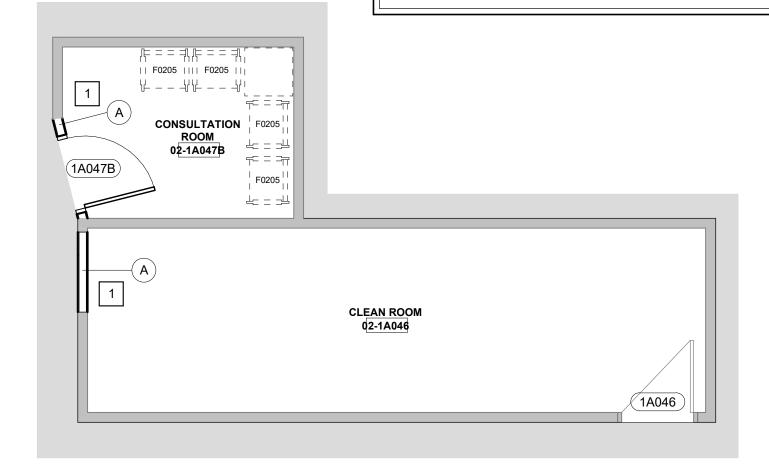


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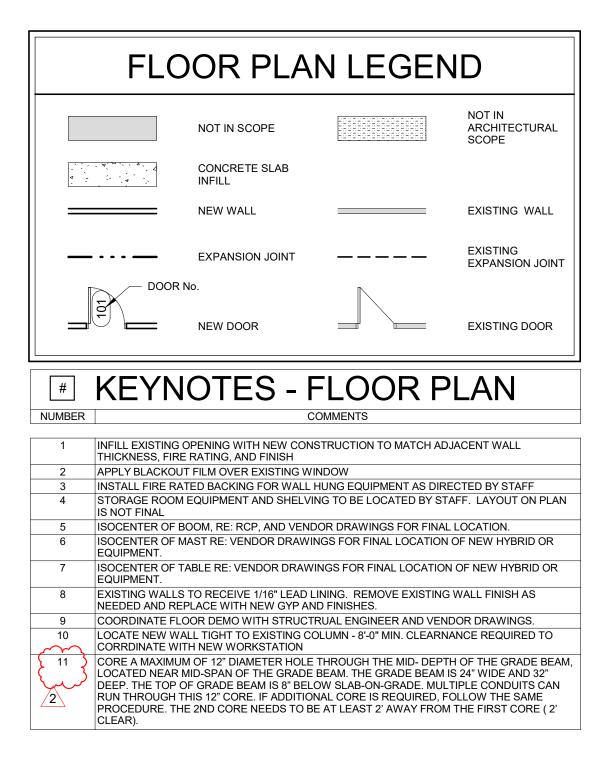
STORAGE 02-1A094 3 4

GRAPHIC PURPOSES ONLY

# C2 CLEAN ROOM AND CONSULTATION ROOM



PERSONS.



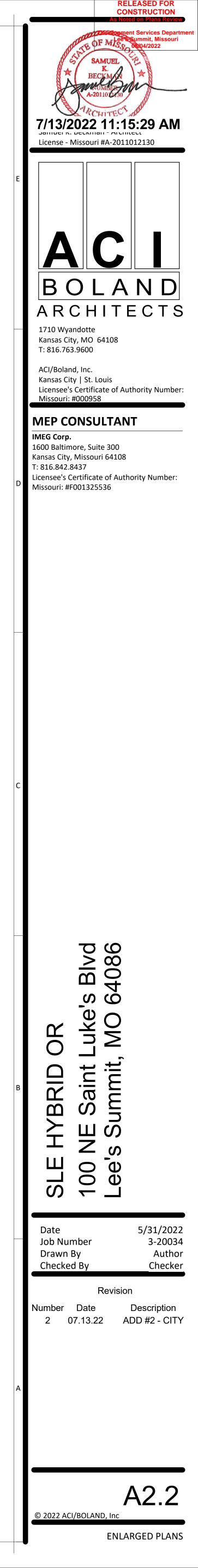
10.	THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR EXAMINING AND CONFIRMING ALL SUBSTRATE CONDITIONS WHERE NEW MATERIALS ARE APPLIED. THE SUBSTRATE SHALL BE SMOOTH AND FREE OF DEFECTS AND SHALL CONFORM TO THE REQUIREMENTS OF THE FINISHED MATERIAL MANUFACTURERS RECOMMENDATIONS.
11.	CONTRACTOR TO PROVIDE ALL REQUIRED LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO MEET AND COMPLETE THE REQUIREMENTS OF THE NEW CONSTRUCTION.
12.	ALL EXISTING CONSTRUCTION TO REMAIN SHALL BE PATCHED, REPAIRED, AND PREP AS REQUIRED FOR NEW FINISH APPLICATION.
13.	DO NOT CLOSE OR OBSTRUCT WALKWAYS, EXITS, OR OTHER FACILITIES USED BY OCCUPANTS OF BUILDINGS WITHOUT WRITTEN PERMISSION FROM AUTHORITIES HAVING JURISDICTION
14.	CONDUCT ALL OPERATIONS IN A SAFE WORKING MANNER TO PREVENT DAMAGE OR INJURY TO ADJACENT SPACES, BUILDING, STRUCTURE, OTHER FACILITIES, AND

15. SEE FINISH SCHEDULE FOR FINISH LOCATION AND SPECIFICATIONS.

16. SEE DOOR SCHEDULE FOR DOOR SPECIFICATIONS.

- SPACE UNDER CONSTRUCTION DURING BIDDING AND CONSTRUCTION SHALL BE COORDINATED WITH THE OWNER. ORM TO
- 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
- ALL APPLICABLE LOCAL, STATE, AND FEDERAL BUILDING CODES AND REGULATIONS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY BUILDING
- OTHER WALL MOUNTED ITEMS AS REQUIRED FOR ADEQUATE SUPPORT. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH A.D.A. REQUIREMENTS AND
- CONTRACTOR SHALL FURNISH AND INSTALL CONCEALED FIRE-TREATED WOOD BLOCKING BEHIND ALL CABINETS, TOILET ACCESSORIES, PLUMBING FIXTURES, AND
- IF MATERIAL SUSPECTED OF CONTAINING HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT DISTURB. IMMEDIATELY NOTIFY ARCHITECT AND OWNER. OWNER SHALL COORDINATE WITH CONTRACTOR ON THE REMOVAL OF SUCH ITEMS. WORK MAY PROCEED AFTER HAZARDOUS MATERIAL HAS BEEN REMOVED.
- TYPICAL DIMENSIONS ARE TO FACE OF CONCRETE, DRYWALL, CURTAIN WALL, ETC., OR TO COLUMN CENTERLINE. DIMENSIONS AT WINDOWS ARE TYPICALLY TO FACE OF FRAME. REFER TO PLAN DETAILS FOR ADDITIONAL INFORMATION.
- DO NOT SCALE DRAWINGS THE WORD "ALIGN" AS USED IN THESE DOCUMENTS SHALL SUPERSEDE ANY DIMENSIONAL INFORMATION GIVEN.
- REFER TO GENERAL NOTES, LEGENDS & SYMBOLS SHEET FOR ADDITIONAL GENERAL NOTES AS APPLICABLE.

# **GENERAL PLAN NOTES**



(1A094)

M2055

5

5

4

3

#### **KEYNOTES - 2ND FLOOR PLAN** COMMENTS NUMBER

 12
 1-hr RATED CHASE AROUND NEW MECH DUCT. COORDINATE SIZE WITH MECH DRAWINGS. PROVIDE WALL PROTECTION, PAINT, AND BASE TO MATCH EXISTING ROOM FINISHES.

 13
 REMOVE AND REINSTALL PORTION OF CEILING TO COORDINATE WITH NEW MECH DUCT, REF.

 MECH PLANS 

 MECH PLANS

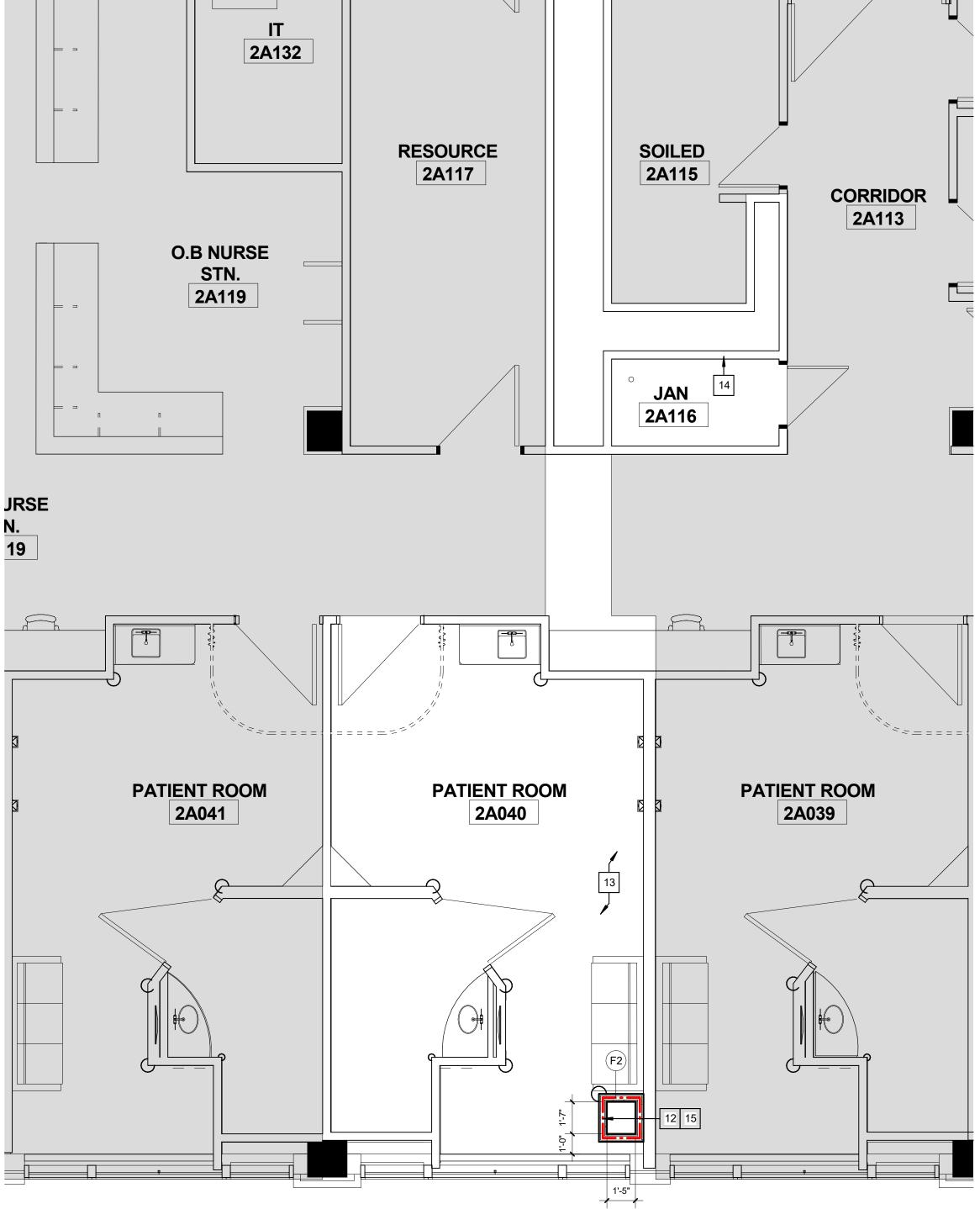
 14
 CUT AND PATCH PORTION OF EXISTING JANITOR WALL TO INSTALL NEW MECH. DUCT., REF. MECH FOR SIZE AND LOCATION

 15
 NEW OPENING IN CONCRETE FLOOR TO BE 1/2" LARGER AT ALL SIDES THAN NEW DUCT SIZE. PRIOR TO CUTTING THE OPENING, THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF EXISTING BEAMS AND JOISTS. THE OPENING MUST MISS THE EXISTING BEAMS AND JOISTS. THE OPENING MUST BE CUT NEATLY. OVERCUTTING THE OPENING AND/OR SAW OVERRUNNING AT THE CORNERS ARE NOT ACCEPTABLE.

4

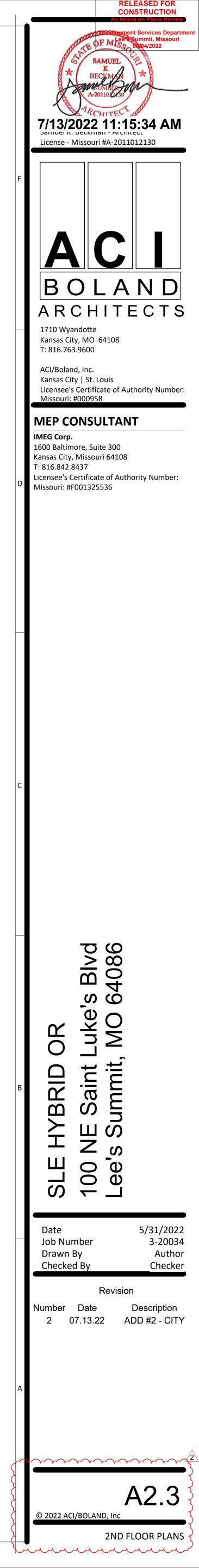


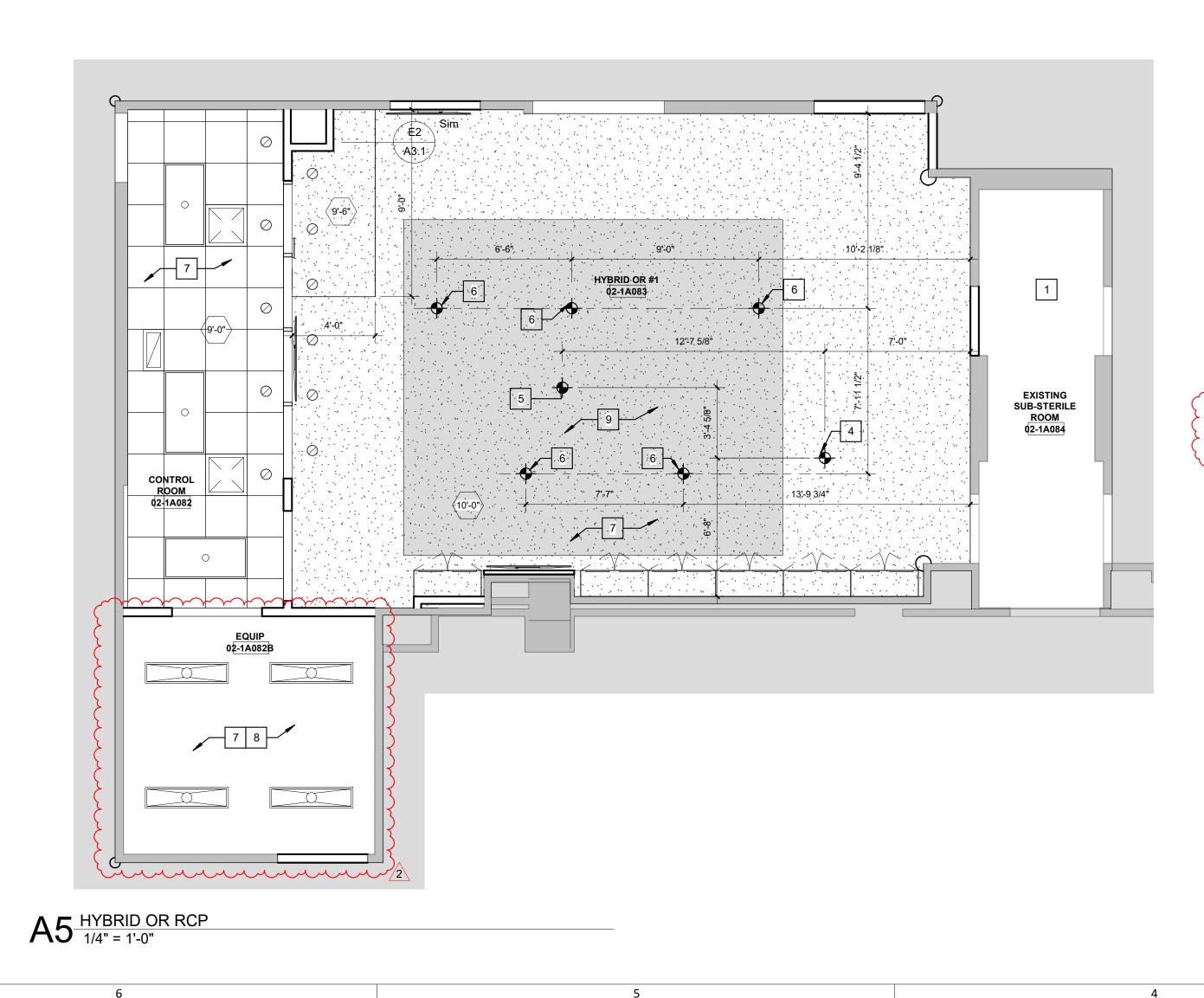
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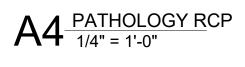


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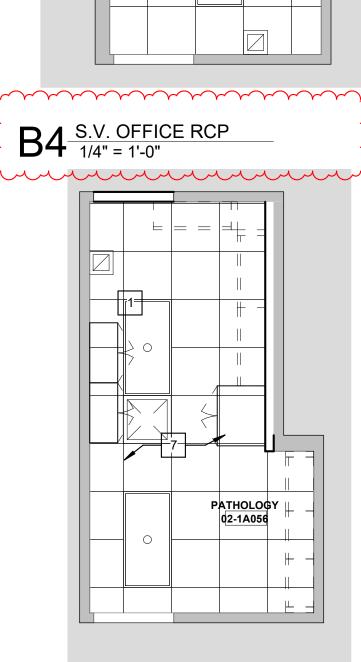






# A3 STORAGE ROOM RCP 1/4" = 1'-0"

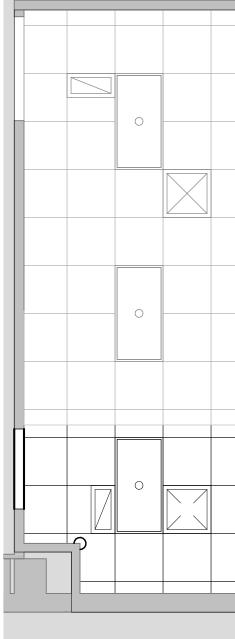
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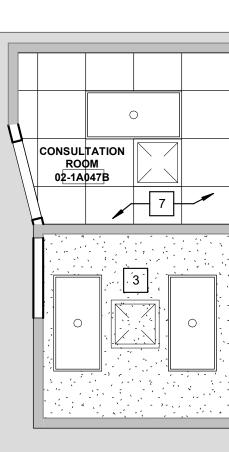
S.V. OFFICE 02-1A058



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

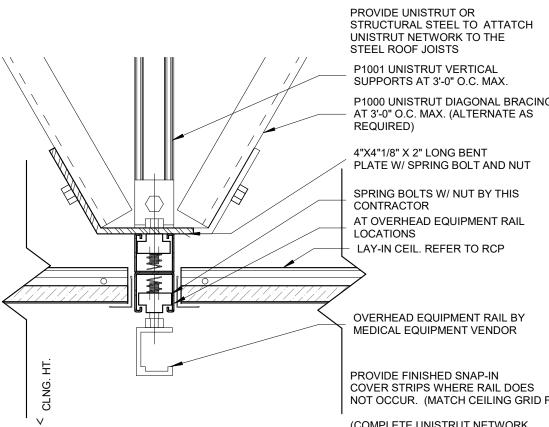


# C1/4" = 1'-0"



<u>Section</u>

# E4 <u>CEILING DETAIL</u> 3" = 1'-0"



#### PROVIDE FINISHED SNAP-IN COVER STRIPS WHERE RAIL DOES NOT OCCUR. (MATCH CEILING GRID FINISH) (COMPLETE UNISTRUT NETWORK, INCLUDING FASTENERS SHALL BE ENGINEERED, FURNISHED AND INSTALLED BY CONTRACTOR AND

COORDINATED WITH VENDOR)

# OVERHEAD EQUIPMENT RAIL BY MEDICAL EQUIPMENT VENDOR

P1000 UNISTRUT DIAGONAL BRACING – AT 3'-0" O.C. MAX. (ALTERNATE AS REQUIRED) 4"X4"1/8" X 2" LONG BENT PLATE W/ SPRING BOLT AND NUT SPRING BOLTS W/ NUT BY THIS CONTRACTOR AT OVERHEAD EQUIPMENT RAIL LOCATIONS - LAY-IN CEIL. REFER TO RCP

4

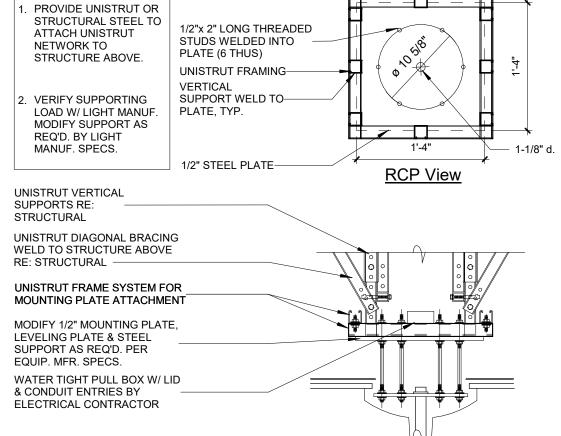
#### EQUIP. MFR. SPECS. WATER TIGHT PULL BOX W/ LID & CONDUIT ENTRIES BY ELECTRICAL CONTRACTOR

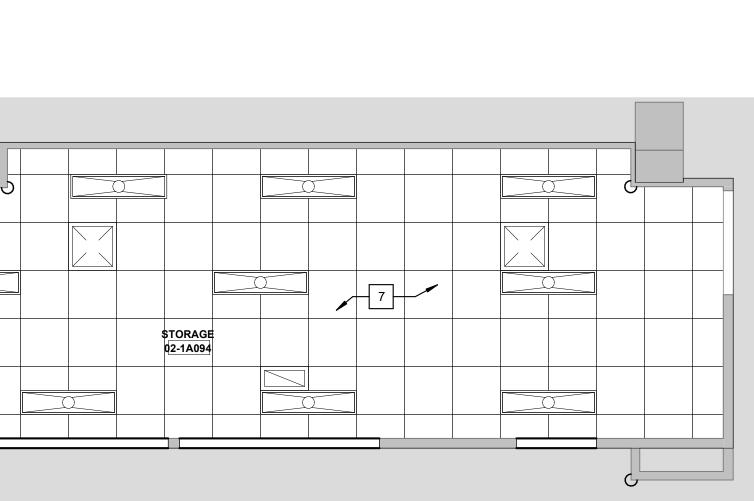
E3 LIGHT SUPPORT 1" = 1'-0"

SUPPORTS RE: STRUCTURAL UNISTRUT DIAGONAL BRACING WELD TO STRUCTURE ABOVE RE: STRUCTURAL UNISTRUT FRAME SYSTEM FOR

#### 2. VERIFY SUPPORTING REQ'D. BY LIGHT MANUF. SPECS.

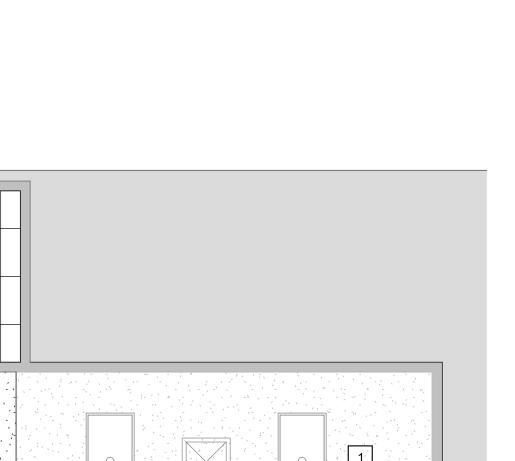
NOTE:

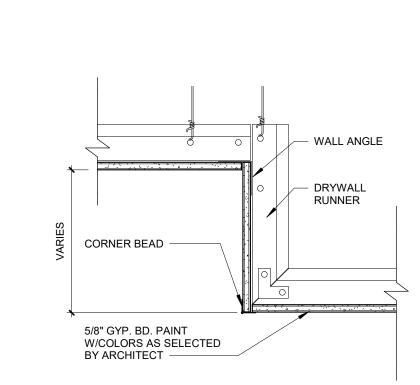




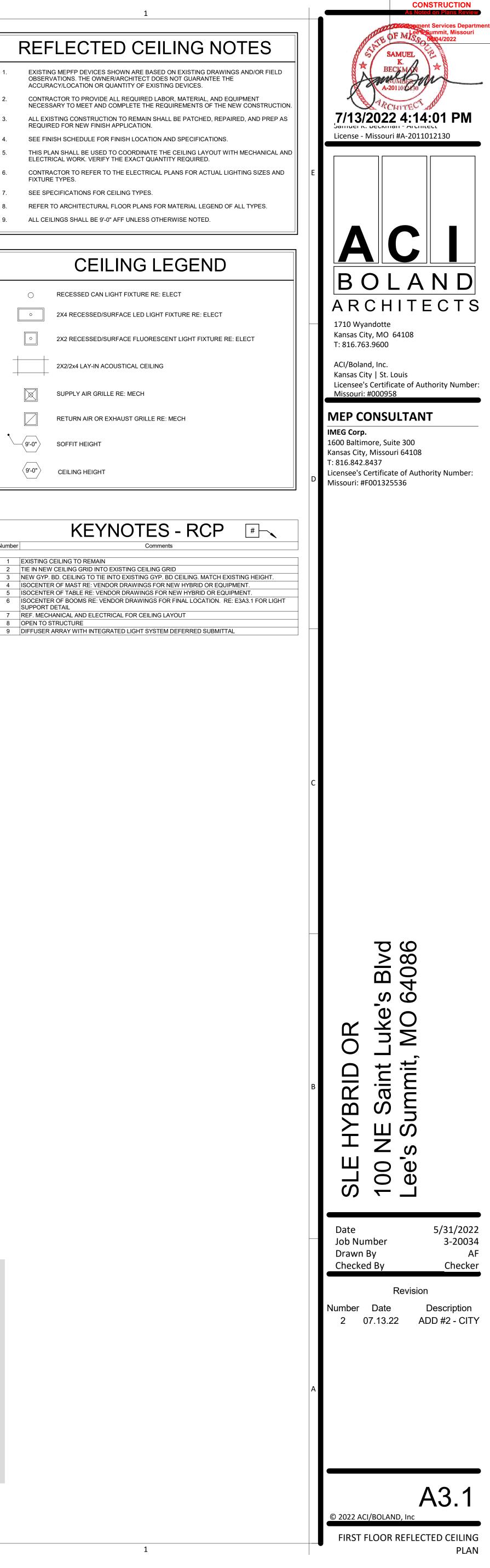
0		0 -		0		0	C	
		1						
	EXISTING STORAGE 1A079	0 -		 0		0		
0	2	0 -		 0		0		
			- 7 -			G		

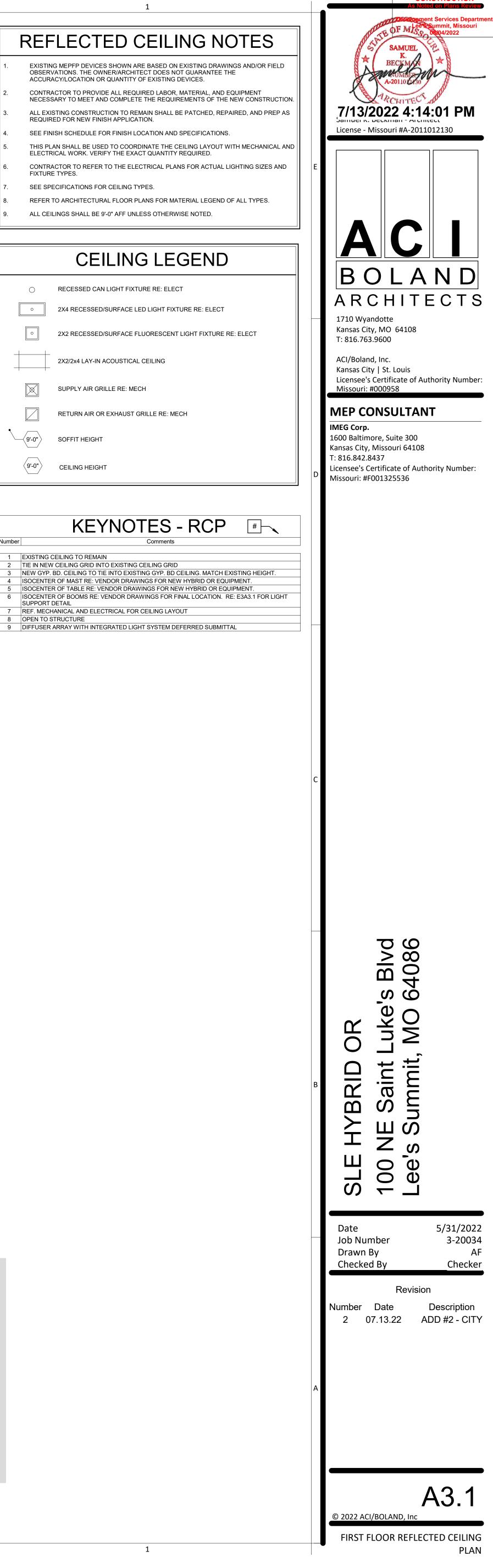
		CLEAN F 02-1A	200M					
 0		0		0		0	C C	
		1						







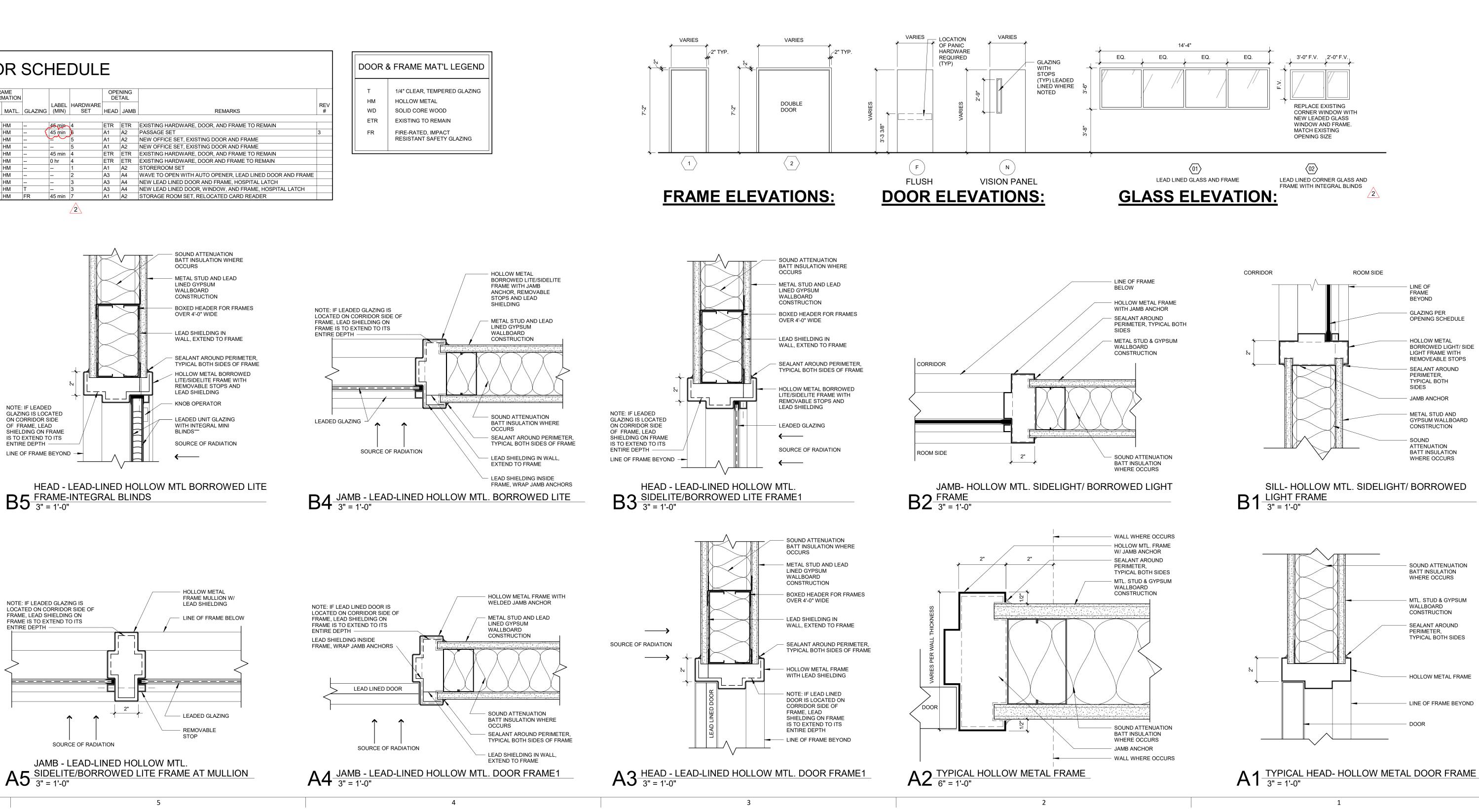


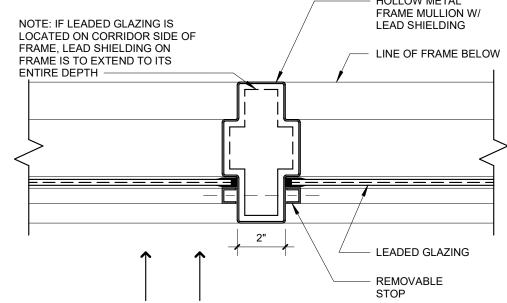


	KEYNOTES - RCP
Number	Comments
1	EXISTING CEILING TO REMAIN
2	TIE IN NEW CEILING GRID INTO EXISTING CEILING GRID
3	NEW GYP. BD. CEILING TO TIE INTO EXISTING GYP. BD CEILING. MATCH EXISTING HEI
4	ISOCENTER OF MAST RE: VENDOR DRAWINGS FOR NEW HYBRID OR EQUIPMENT.
5	ISOCENTER OF TABLE RE: VENDOR DRAWINGS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

							D	C	R	SCł	ΗEI	DULI	Ε		
				DOOR INF	ORMATION				AME MATION	1			OPENING DETAIL		
DOOR #	ROOM NAME	WIDTH	HEIGHT	NO. OF LEAVES	UNEQUAL LEAF WIDTH	ELEV.	MATL.	ELEV.	MATL.	GLAZING		HARDWARE SET		JAMB	REMARKS
			1		r	1		1		1		r			
1A046	CLEAN ROOM	3'-0"	7'-0"	1		F	WD	1	HM		45 min		ETR	ETR	EXISTING HARDWARE, DOOR, AND FRAME TO RE
1A047B	CONSULTATION ROOM	3'-0"	7'-0"	1		F	WD	1	HM	{	45 min	6	A1	A2	PASSAGE SET
1A056	PATHOLOGY	3'-0"	7'-0"	1		F	WD	1	HM	``		5	A1	A2	NEW OFFICE SET, EXISTING DOOR AND FRAME
1A058	S.V. OFFICE	3'-0"	7'-0"	1		F	WD	1	HM			5	A1	A2	NEW OFFICE SET, EXISTING DOOR AND FRAME
1A079	EXISTING STORAGE	4'-0"	7'-0"	1		V	WD	1	HM		45 min	4	ETR	ETR	EXISTING HARDWARE, DOOR, AND FRAME TO RE
1A082A	CONTROL ROOM	3'-0"	7'-0"	1		F	WD	1	HM		0 hr	4	ETR	ETR	EXISTING HARDWARE, DOOR AND FRAME TO RE
1A082B	EQUIP	4'-0"	7'-0"	1		F	WD	1	HM			1	A1	A2	STOREROOM SET
1A083	HYBRID OR #1	4'-0"	7'-0"	2	2'-0"	F/F	WD	2	HM			2	A3	A4	WAVE TO OPEN WITH AUTO OPENER, LEAD LINE
1A083B	HYBRID OR #1	4'-0"	7'-0"	1		F	WD	1	HM			3	A3	A4	NEW LEAD LINED DOOR AND FRAME, HOSPITAL
1A084D	HYBRID OR #1	3'-0"	7'-0"	1		N	WD	1	HM	Т		3	A3	A4	NEW LEAD LINED DOOR, WINDOW, AND FRAME,
1A094	STORAGE	4'-0"	7'-0"	1		N	WD	1	HM	FR	45 min	7	A1	A2	STORAGE ROOM SET, RELOCATED CARD READE

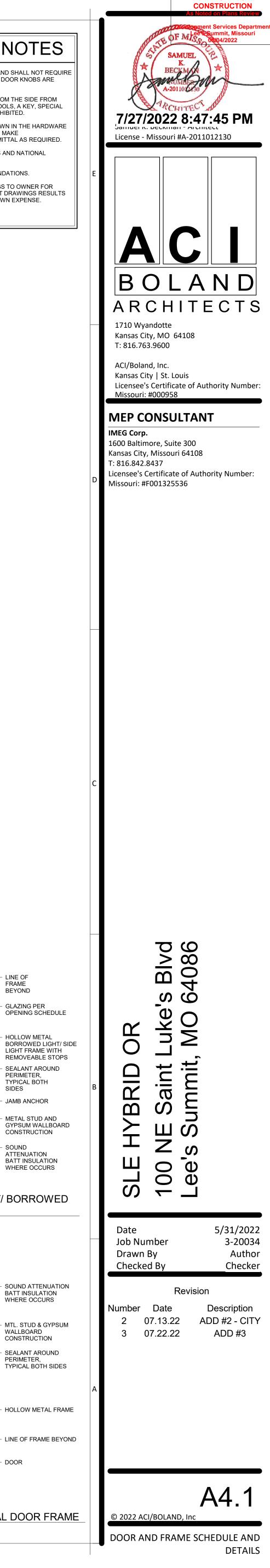


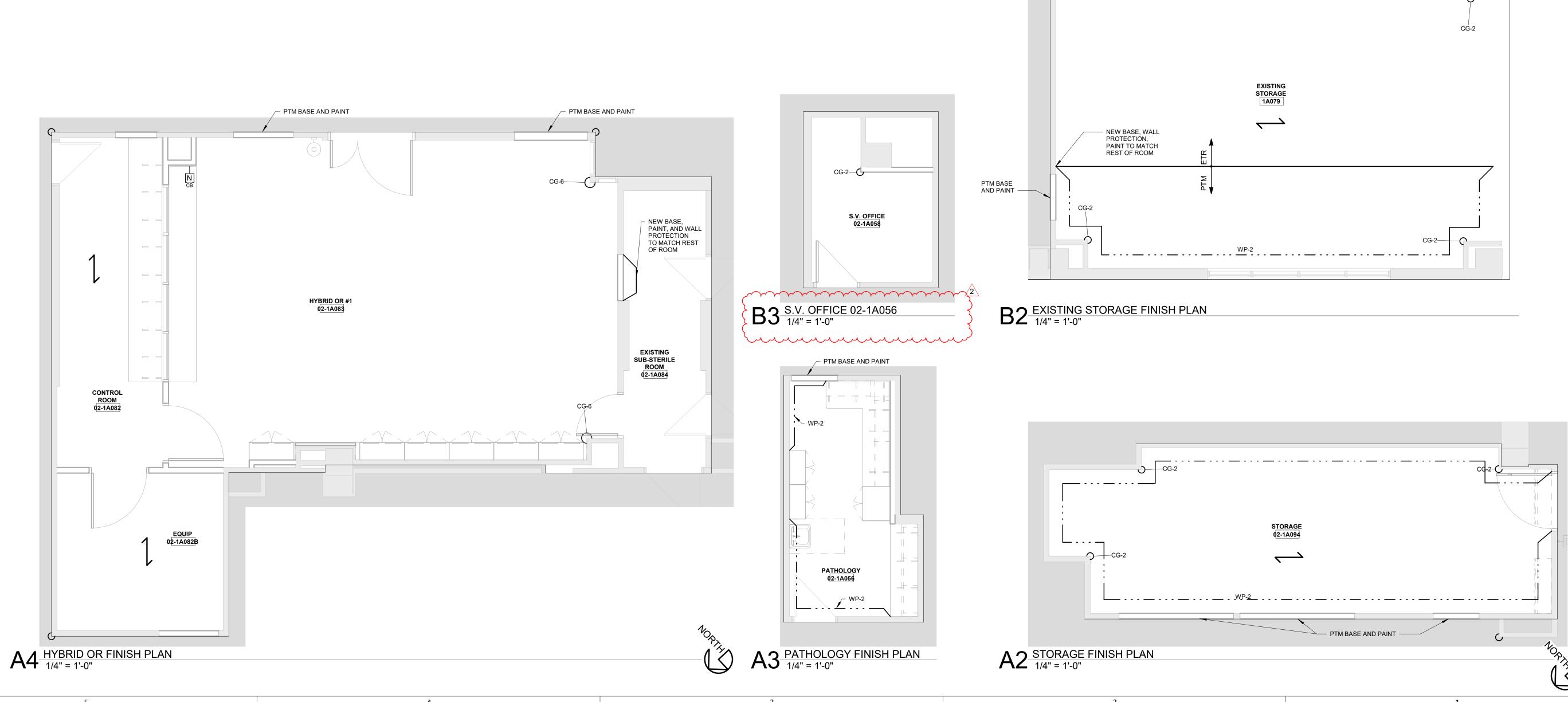




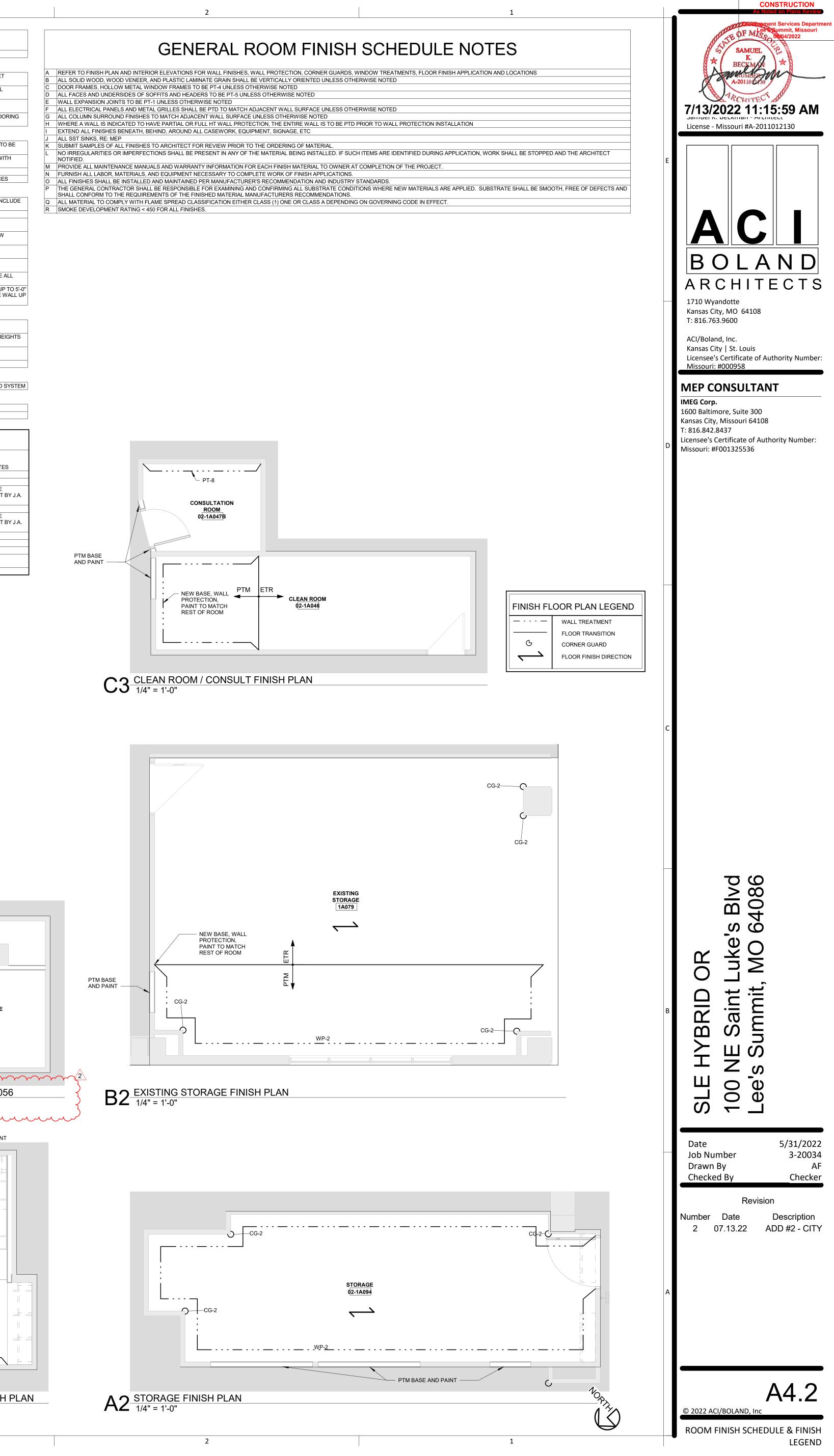
# DOOR AND HARDWARE NOTES

- 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.

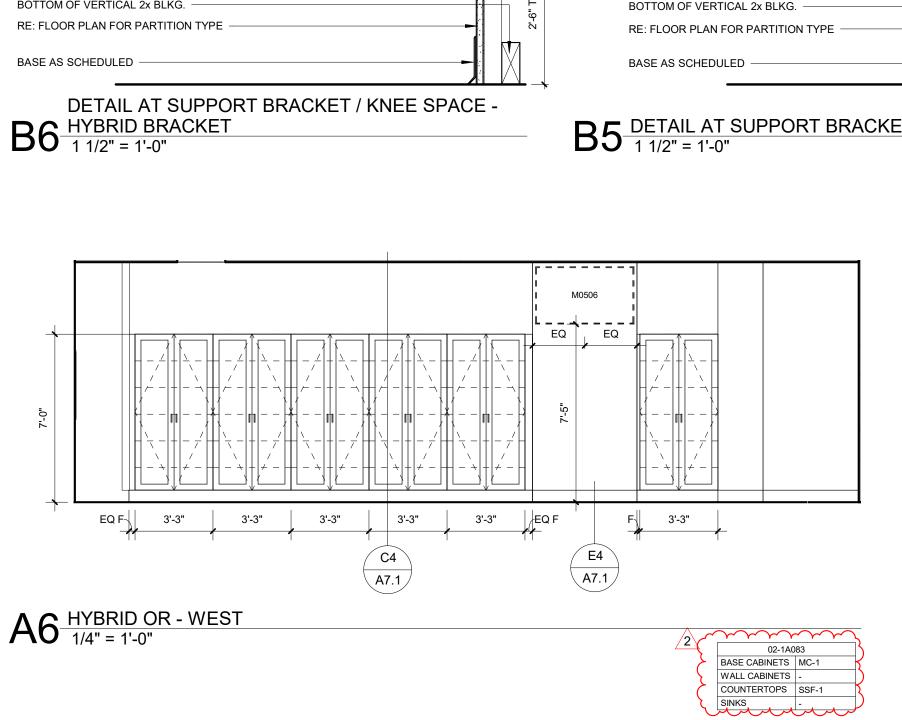


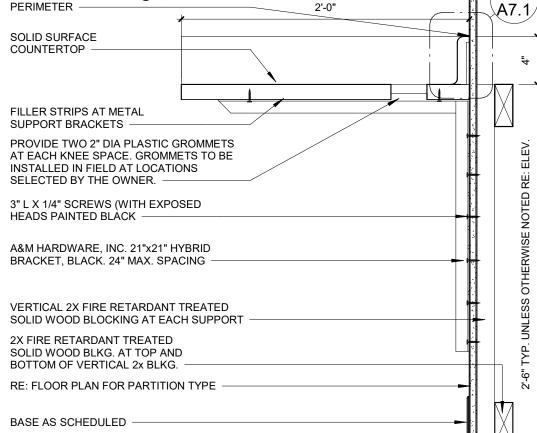


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				INT	<b>FERIC</b>	DR FI	INISH	łL	EGI	ΞN	D					
MARK	ITEM		MANUFACT	URER		MODEL/ PATT	ERN		COLOR			SIZE		REMAR	RKS	
FLOOR																
	LUXURY VINYL TILE	MANNINGTO	N		AMTICO W	VOOD		REGENCY WALNUT AROW8200					EDGE ONLY. RA	NDOM OFFSE		
LVT-2	T-2 LUXURY VINYL TILE MANNINGTON AI		AMTICO S	STONE		-	78200 NTHIAN MA	RBLE	18" X 18		NSTALLATI STRAIGHT E	ON EDGE ONLY. AS	HLAR INSTAL			
RES-1	SEAMLESS RESINOUS	DESCO						AROSTV13 S#0714-434TG		-	ſ		CO-POLYMER			
	FLOOR COVERING				BIO-FINISI	QUARTZ CREMONA TG / OR WITH BIO-FINISH										
RSF-1	RESILIENT SHEET FLOORING	ARMSTONG			MEDINTO	NE, DIAMOND	10	WHITE	1 - NATUR E	AL	6'-0" ROLL		WELD ROD	WS129. HOMOG	GENEOUS FLO	
BASE																
IB-1	INTEGRAL BASE	ARMSTRONG	6		MEDINTO	NE, DIAMOND	10	#H531 WHITE	1 - NATUR	AL	6" COVE		I' MOLD SCI JSED WITH	HLUTER STRIP	AT THE TOP:	
IB-3	SEAMLESS RESINOUS INTEGRAL COVE BASE	DESCO				QUARTZ CREMONA TG / OR WITH BIO-FINISH PINNACLE					6" COVE		-	CO-POLYMER. T	O BE USED V	
RB-1		ROPPE									4 5/8"			S - PUBLIC SPA	CES	
RB-2	RESILIENT BASE	ROPPE			PINNACLE			#129 [	OLPHIN		4" COVE	. A	ALL CAMPU	S - SUPPORT S	ERVICE SPAC	
WALL		0/0 • 6 = 5 5			<b></b>			110-	100101		0"				0.000	
	CORNER GUARDS C/S ACROVYN					ACROVYN-400	0	#933 MISSION WHITE			3"			. ABOVE BASE 1 ND ACCESSORI		
	G     CORNER GUARDS     C/S ACROVYN       /PT-     PAINT/ EPOXY PAINT     SHERWIN WILLIAMS					INLESS STEEL		#4 SATIN FINISH SW7008 ALABASTER			3.5" WIN	-	LOOR TO C			
1A		SHERWIN WI				DSS FINISH										
								SW7046 ANONYMOUS -			F	ALL HOLLOW METAL DOOR AND WINDOW FRAMES				
PT-5/PT- 5A	PAINT/ EPOXY PAINT	SHERWIN WI	LLIAMS		FLAT FINI	SH / EPOXY FII	NISH	SW70	08 ALABAS	TER	-	0				
PT-8/PT- 8A	PAINT/ EPOXY PAINT	SHERWIN WI	LLIAMS		EGGSHEL	L FINISH / EPC	DXY FINISH	SW76	21 SILVERI	MIST	-	ŀ	ACCENT PA	INT		
WP-2	WALL PROTECTION	C/S ACROVY	N		ACROVYN	N 4000		#933 N	/ISSION W	HITE	4' X 10' S THICK			ECTION AT 48" IES AND TRIM F		
WS-1	WALL SYSTEM	DESCO COA	TINGS		WALLGLA GLOSS FII	ASS FC, SMOOT	TH TEXTURE,		H SHERWI		-			S FC (FIBERGL/ GLASS FX THE		
									ASTER				<b>FO CEILING</b>			
CASEWC																
MC-1	METAL CABINETS	MOTT MANUI	FACTURER		#601006			WARN	1 GRAY		-		COLOR SHA	ALL MATCH IF U URER	SING OTHER	
PLAM-1	PLASTIC LAMINATE	WILSONART			#796K-12			WALNUT HEIGHT					IM PVC DOELKE N VERTICALLY	EN WALNUT H		
SSF-1	SOLID SURFACE	CORIAN			-	-			CLAM SHELL		1/2": 30" X 144" SHEET, -					
SST	STAINLESS STEEL	RE:MEP			-	-			- 36" X 144" SHEET							
CEILING																
	ACOUSTIC CEILING TILE	USG			RADAR CL	LIMA PLUS #22	10	WHITE	1		2' X 2'	5	SQUAR EDG	GE, DONN DX TE	E 15/16" GRI	
MISC.																
ETR	EXISTING TO REMAIN	-			-			-			-	-				
PTM	РАТСН ТО МАТСН	-			-			-			-	-				
							SH SC	าม								
									Cυ							
ROOM	м	FLOOR	BASE		W	/ALLS			BASE	W	CASEW(	ORK		-		
NUMB 1A079		FINISH	FINISH RB-2	NORTH PT-1/WP-2	EAST PT-1/WP-2	SOUTH PT-1/WP-2	WEST	C	ABINETS			COUNTERTOPS	SINKS	CEILING ACT-1	NO	
02-1A046		PTM	PTM	PT-1/WP-2 PTM	PT-T/WP-2 PTM	-	PT-17 WP-2 PTM	-		-	-		-	PT-5A		
02-1A047	B CONSULTATION ROOM	LVT-1	RB-1	PT-1	PT-8	PT-1	PT-1	-		-	-		-	ACT-1	FURNITURI	
02-14056		RSF-1	IB-1	PT-1A / WP-2	-		PT-1A / WP-2	2 -		MC-1	5	SST	SST	ETR	MARSHALL	
02-1A058	S.V. OFFICE	LVT-1	RB-2	PT-1	PT-1	PT-8	PT-1	-						ACT-1	FURNITUR	
02-1A082	کرر CONTROL ROOM	LVT-2	RB-2	PT-1	PT-1	PT-1	PT-1		^			SSF-1			MARSHALL	
02-1A082 02-1A082		LVT-2	RB-2 RB-2	PT-1 PT-1/WP-2	PT-1 / WP-2	PT-1 / WP-2			2	-	-		- (	AGT-1 OPEN 2		
02-1A083	B HYBRID OR #1	RES-1	IB-3	WS-1	WS-1	WS-1	WS-1	<del>{</del> мс	· .	-	5	SSF-1	-	PT-5A		
02-1A083 02-1A084	EXISTING SUB-STERILE	ETR	PTM	PTM	ETR	ETR	ETR	· · ·	$\sim$					ETR		





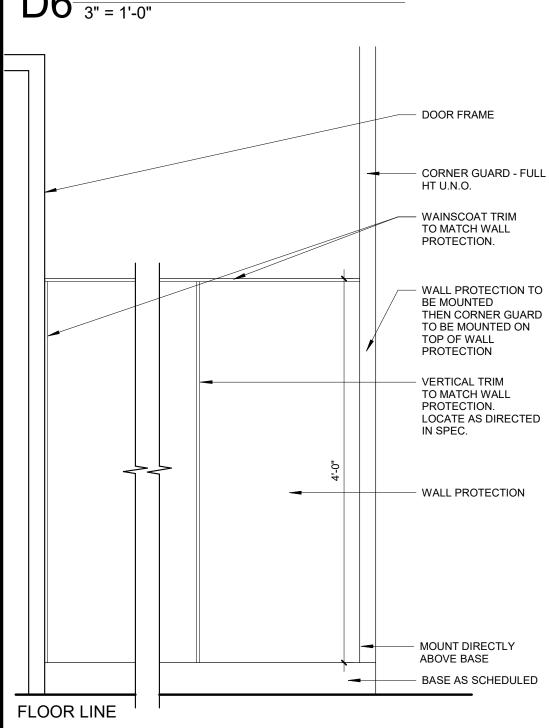




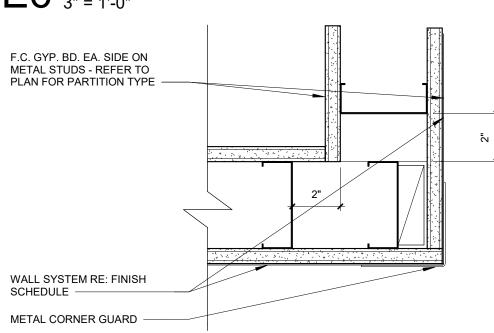


SOLID SURFACE BACK &

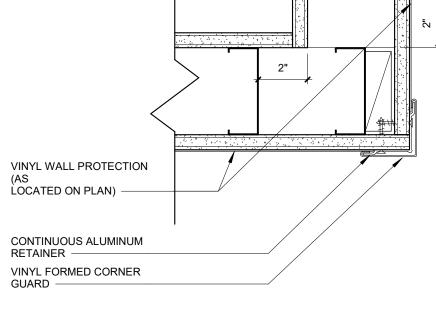
SIDESPLASH - SEALANT @

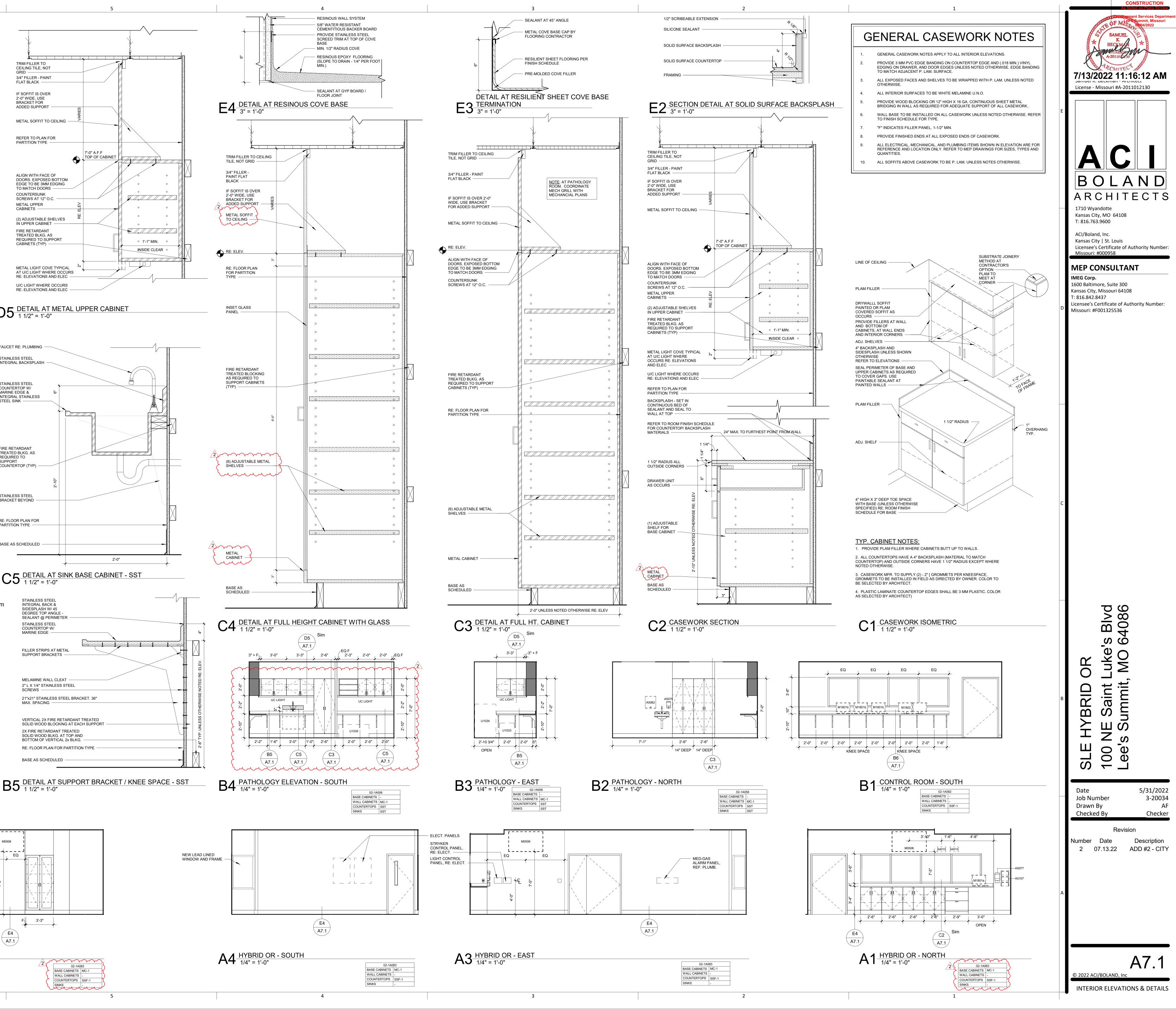






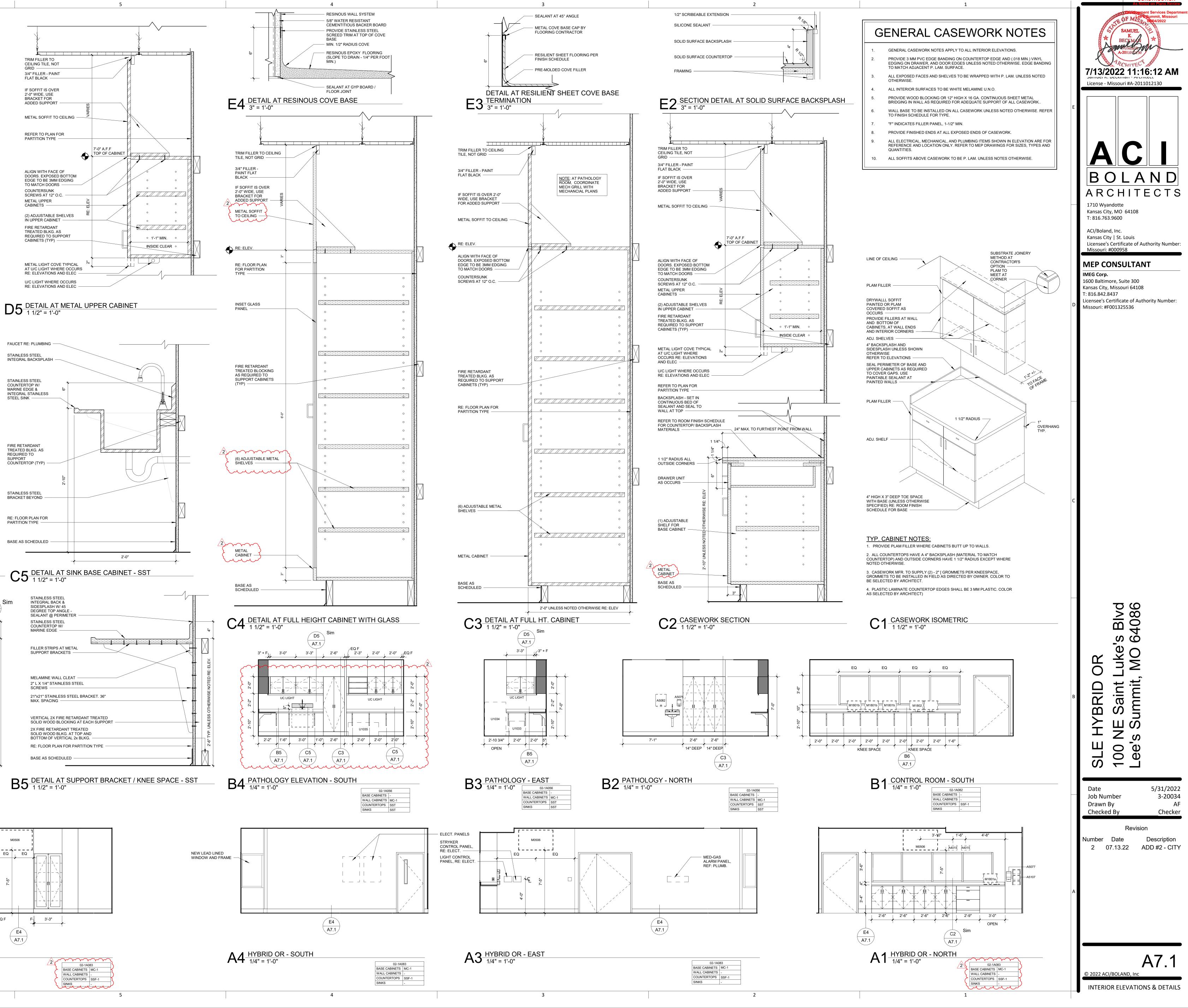


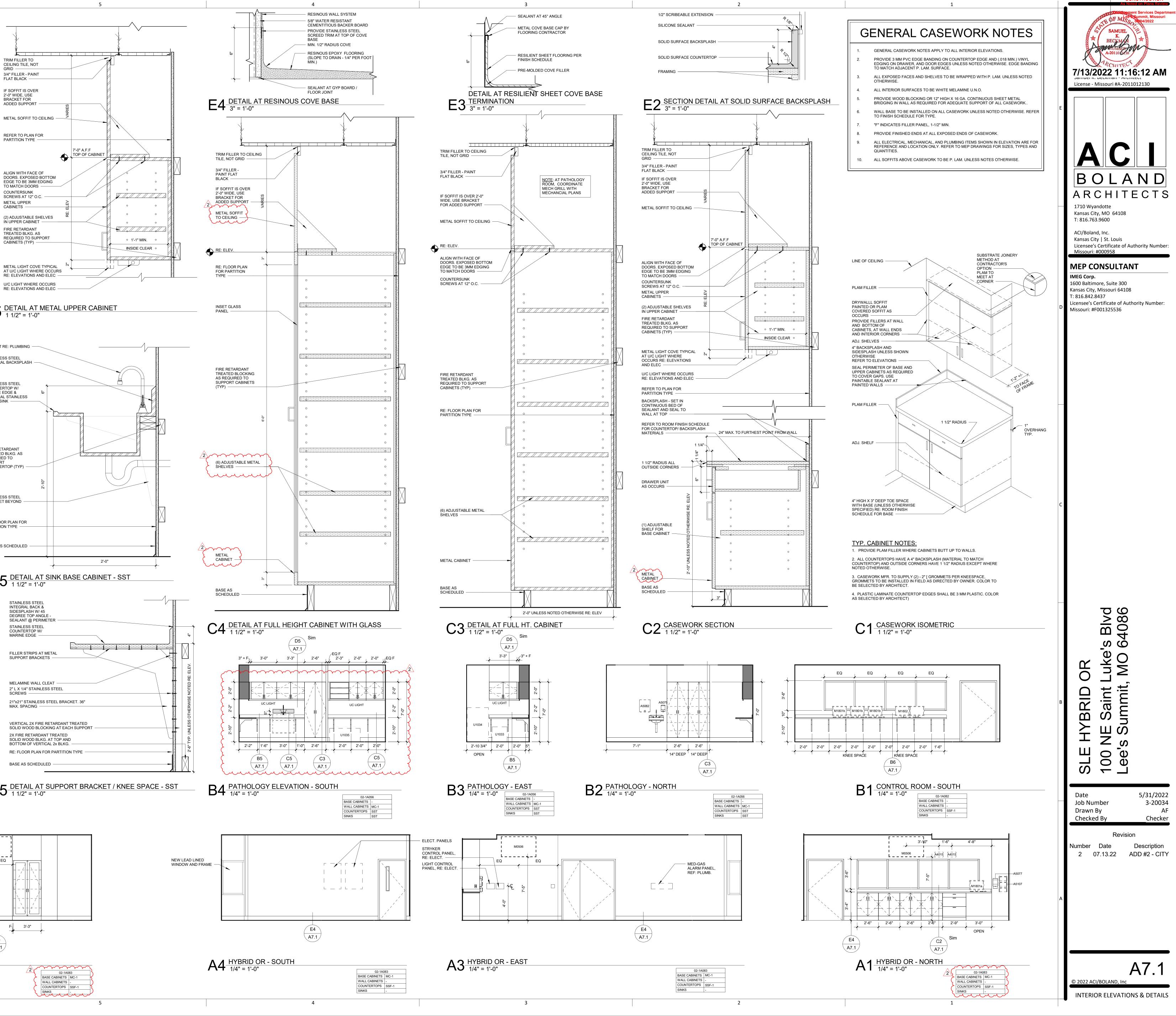




INTEGRAL BACK & SIDESPLASH W/ 45 DEGREE TOP ANGLE - SEALANT @ PERIMETER
STAINLESS STEEL COUNTERTOP W/ MARINE EDGE
FILLER STRIPS AT METAL SUPPORT BRACKETS
MELAMINE WALL CLEAT
21"x21" STAINLESS STEEL BRACKET. 36" MAX. SPACING
VERTICAL 2X FIRE RETARDANT TREATED SOLID WOOD BLOCKING AT EACH SUPPORT
2X FIRE RETARDANT TREATED SOLID WOOD BLKG. AT TOP AND BOTTOM OF VERTICAL 2x BLKG.
RE: FLOOR PLAN FOR PARTITION TYPE





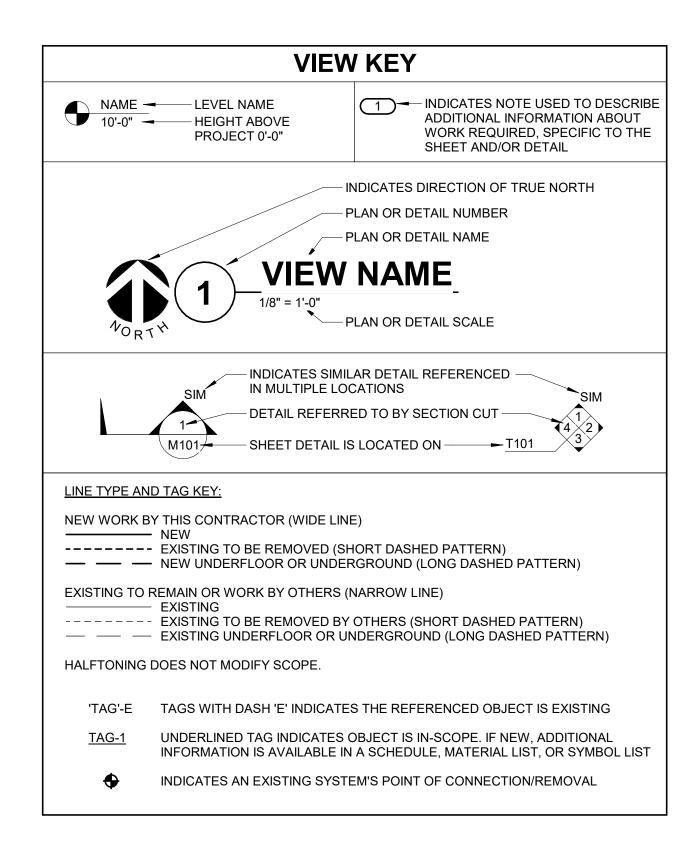


F.C. GYP. BD. EA. SIDE ON

METAL STUDS - REFER TO

PLAN FOR PARTITION

TYPE -



ABBR:	DESCRIPTION:
A.C.	ASBESTOS ABATEMENT CONTRACTOR
A.V.C.	AUDIO/VISUAL 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

**CONTRACTOR ABBREVIATION KEY** 

	PL
SYMBOL:	DESCRI
AV—	ACID VENT
AW	ACID WAST
——СА——	COMPRESS
CO2	
CW D	COLD WAT DRAIN
DI	DEIONIZED
——DMG——	DRAIN - ME
DT	DRAIN TILE
EA	MEDICAL E
FOR	EMERGEN FUEL OIL R
—FOS—	FUEL OIL S
——-G——-	NATURAL C
GRV	GAS REGU
—GSAN— —GV—	SANITARY I GREASE VE
——————————————————————————————————————	HOT WATE
—HWC—	HOT WATE
—HW140—	HOT WATE
—HWC140—	HOT WATE
——IA——	
——MA—— ——MPG——	MEDICAL A
MV	MEDICAL V
N	NITROGEN
——NCW—	NON-POTA
——NHW—— ——NO——	NON-POTA NITROUS C
0	OXYGEN
——Р—— ——РD——	PROPANE ( PUMPED D
PW	PURE WAT
RO	REVERSE (
SAN	SANITARY
——SCW—— ——SHW——	SOFT COLE
—ST(1,000)-	STORM DR
sts	STORM DR
——STW—	SOFT TEMP
TW	TEMPERED VENT
VAC	LAB VACUL
W	SERVICE W
WAGD	WASTE AN
	PIPE CONT
o	PIPE UP OF
o FD	PIPE SERV (EXAMPLE:
	PITCH PIPE
	DIRECTION
7	ROUTE TO
<u>RD-1</u> 6"(1000)	ROOF DRA
	DIELECTRI
	UNION/FLA SHUTOFF \
	SHUTOFF \
<b>&amp;</b> GPM_	BALANCING
	CHECK VAL
NŅŅN	BACKFLOW
' <b>⊡</b> ≈	SOLENOID
&	
	"WYE" - STI "WYE" - STI
	AND HOSE
<b> </b>	FLEXIBLE C
	MANUAL AI
± 1	DRAIN VAL
_	
* <b>`</b> ₹ ▽	SAFETY/RE
Υ 	VACUUM B
——≫—® ——≫—₽	PRESSURE
	TEMPERAT
U	THERMOM
	THERMOM
──── <u>─</u> ───	REDUCER
 	FOR CONC PRESSURE
	PUMP
	METER
	ALIGNMEN
	PIPE ANCH EXPANSION
EJ-#	#.#" IS THE

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

(#.#")

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UMBING SYMBOL LIST	
NOT ALL SYMBOLS MAY APPLY.	
PTION:	
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SED AIR IOXIDE	
ER - POTABLE	
WATER	
EDICAL GAS	
QUIPMENT AIR CY OXYGEN	
UPPLY BAS	
LATOR VENT	
DRAINAGE (GREASE SANITARY DRAINAGE) ENT	
R - POTABLE	
R CIRCULATING - POTABLE R - POTABLE NUMBER INDICATES TEMP	
R CIRC POTABLE NUMBER INDICATES TEMP	
NT AIR	
IR RESSURE GAS	
ACUUM	
BLE COLD WATER	
BLE HOT WATER XIDE	
GAS ISCHARGE	
ER DSMOSIS WATER	
DRAINAGE	
) WATER WATER	
AINAGE (ROOF SQUARE FOOTAGE)	
AINAGE (SECONDARY)	
PERED WATER	
11/1	
JM /ATER - POTABLE	
ETHESIA GAS DISPOSAL	
INUATION	
Ν	
R UP/DOWN ING FIXTURE ON FLOOR ABOVE	
FD = FLOOR DRAIN)	
OF FLOW IN PIPE	
DRAIN	
IN PROPERTIES <u>SYMBOL</u> SIZE (ROOF SQ. FT.)	
C CONNECTION NGE	
NGE /ALVE NORMALLY OPEN	
/ALVE NORMALLY CLOSED G VALVE (NUMBER INDICATES GPM)	
VALVE (NUMBER INDICATES GPM)	
/ PREVENTER	
VALVE	
RAINER	
RAINER W/SHUTOFF VALVE CONNECTION WITH CAP	
CONNECTION	
R VENT	
VE WITH HOSE CONNECTION AND CAP	
REAKER	
GAUGE (FURNISHED WITH BALL VALVE)	
SENSOR (FURNISHED WITH BALL VALVE)	
URE SENSOR WITH WELL	
ETER WITH WELL (DIAL TYPE)	
ETER WITH WELL (FILLED TYPE)	
REFERENCE SPECIFICATION	
ENTRIC/ECCENTRIC AND FOT/FOB REDUCING VALVE (LIQUID/GAS)	
T GUIDE	
OR CONTRACTOR CONT	
N JOINT EXPANSION TRAVEL INCHES	
TANCE VALVE	

PLUMBING ABBREVIATION KEY
DESCRIPTION:
ACCESS DOOR
ABOVE FINISHED FLOOR
BACKFLOW PREVENTER
BATHTUB
CATCH BASIN
CAST IRON
CLEANOUT
CLINICAL SINK
DIALYSIS BOX
DRINKING FOUNTAIN
DUCTILE IRON
EXISTING
EMERGENCY EYEWASH
EMERGENCY SHOWER
EMERGENCY SHOWER/EYEWASH
ELECTRIC WATER COOLER
FLOOR CLEANOUT
FLOOR DRAIN
FLOW METER
FLOOR SINK
GARBAGE DISPOSER
GREASE INTERCEPTOR
HOSE BIBB
INVERT ELEVATION (FOR REFERENCE ONLY)
LAVATORY
MOP BASIN
MANHOLE
MIXING VALVE
NORMALLY CLOSED
NOT IN CONTRACT
NORMALLY OPEN
NEUTRALIZATION TANK
OIL SEPARATOR
ROOF DRAIN
SHORT CIRCUIT CURRENT RATING
SHOWER
SINK
SERVICE SINK
TRENCH DRAIN
TRAP PRIMER
TYPICAL
URINAL
VENT THROUGH ROOF
WATER CLOSET
WALL CLEANOUT
WASH FOUNTAIN
WATER HEATER
WASHING MACHINE FIXTURE
WATER METER
WATER SOFTENER
UTILITY BOX
UNLESS OTHERWISE NOTES
YARD CLEANOUT

**ABBR** 

AD

AFF

ESE

EWC

FCO

FD

N.C.

N.O.

OS

RD

SCCR

WCO

WF

WMF

WM

WS

UB

UON

YCO

CONTROL

CONTROL

#### **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

1. 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. 2. NOT ALL EXISTING DUCTWORK AND PIPING IS SHOWN. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK.

3. FIELD VERIFY THE AVAILABLE CLEARANCES FOR DUCTWORK AND PIPING BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS. 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 REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO THEIR AREA OF WORK.

5. 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. 6. 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.

7. 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. 8. PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS THAT

REMAIN ACTIVE. 9. 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. 10. 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

1. 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. 2. REVIEW PROJECT PHASING PLANS TO COORDINATE DEMOLITION WORK, OUTAGES, ETC. WITH AFFECTED ADJACENT AREAS. 3. PROVIDE TEMPORARY DUCTWORK, PIPING, SHUTOFF VALVES, ZONE VALVES, ZONE ALARMS, ETC. AS NEEDED TO MAINTAIN SERVICE TO ALL AREAS DURING ALL PHASES OF PROJECT 4. INSTALL TEMPORARY DUCTWORK, PIPING, SHUTOFF VALVES, ETC, AS NECESSARY TO KEEP ALL OCCUPIED SPACES OPERATIONAL THROUGHOUT ALL PHASES OF THE PROJECT 5. PHASE DEMOLITION WORK TO MINIMIZE DOWNTIME.

# **PLUMBING GENERAL NOTES:**

- 1. 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. 2. 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.
- 3. CONTRACTOR SHALL VERIFY THAT FIXTURES SUPPLIED ARE APPROVED PER ALL APPLICABLE STATE, LOCAL AND GOVERNING AUTHORITIES. 4. ALL FIXTURES SHALL CONFORM TO FEDERAL ACT S.3874
- 5. INVERT ELEVATIONS ARE FROM EXISTING DRAWINGS AND MAY NOT BE ACCURATE. VERIFY ALL ELEVATIONS BEFORE BEGINNING WORK. 6. VERIFY UNDERGROUND PIPE SIZES, INVERT ELEVATIONS, AND LOCATIONS PRIOR TO
- BEGINNING ANY WORK. 7. REFER TO THE PLUMBING ROUGH-IN SCHEDULE FOR THE SIZES OF BRANCH PIPES TO
- PLUMBING FIXTURES. 8. 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. 9. EXISTING CONDITIONS ON DEMOLITION PLANS ARE PROVIDED TO INDICATE THE GENERAL
- SCOPE OF ITEMS TO BE REMOVED. 10. P.C. SHALL CUT AND PATCH EXISTING AS REQUIRED FOR NEW OR DEMOLITION WORK UNLESS NOTED OTHERWISE.

### **MEDICAL GAS GENERAL NOTES:**

- 1. 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. 3. COORDINATE EXACT LOCATIONS/ELEVATIONS OF MEDICAL GAS OUTLETS WITH
- ARCHITECTURAL DRAWINGS. 4. 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

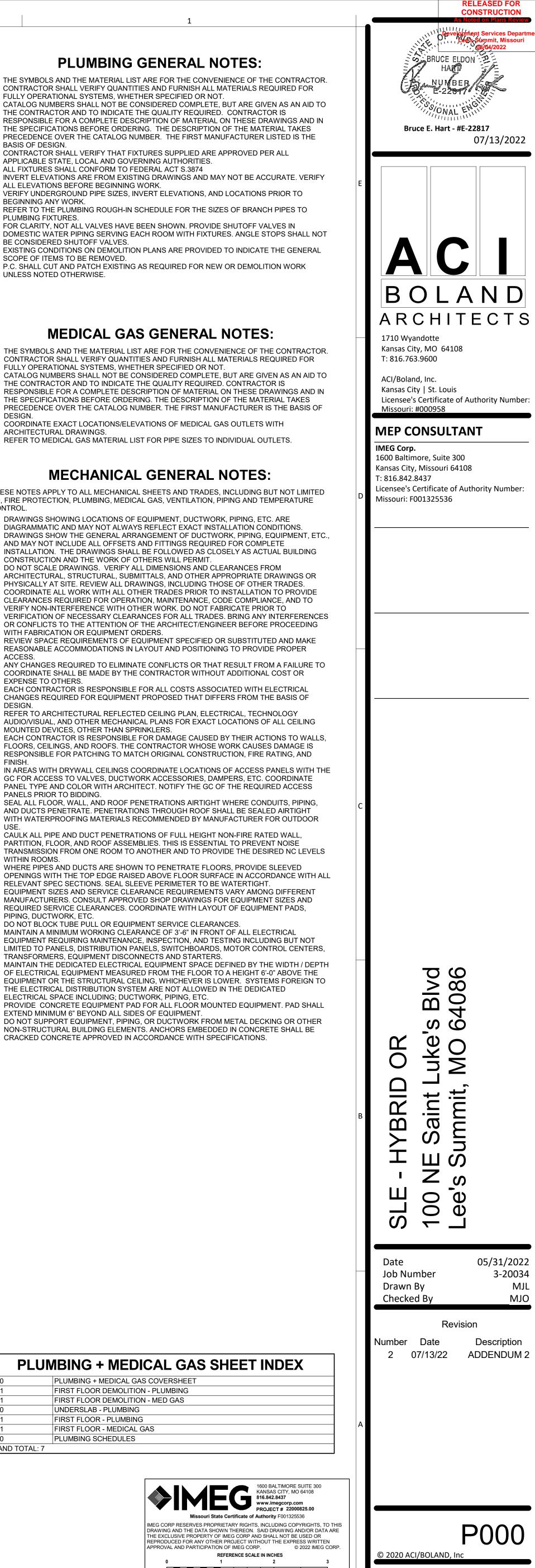
- 1. DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC, ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING
- CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT 2. 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.
- 3. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
- 4. REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS. 5. 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.
- 6. EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN 7. 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.
- 8. 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
- 9. 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. 10. 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 11. 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. 12. 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. 13. 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. 14. DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES. 15. 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. 16. 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. 17. PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL EXTEND MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT. 18. DO NOT SUPPORT EQUIPMENT, PIPING, OR DUCTWORK FROM METAL DECKING OR OTHER

CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.

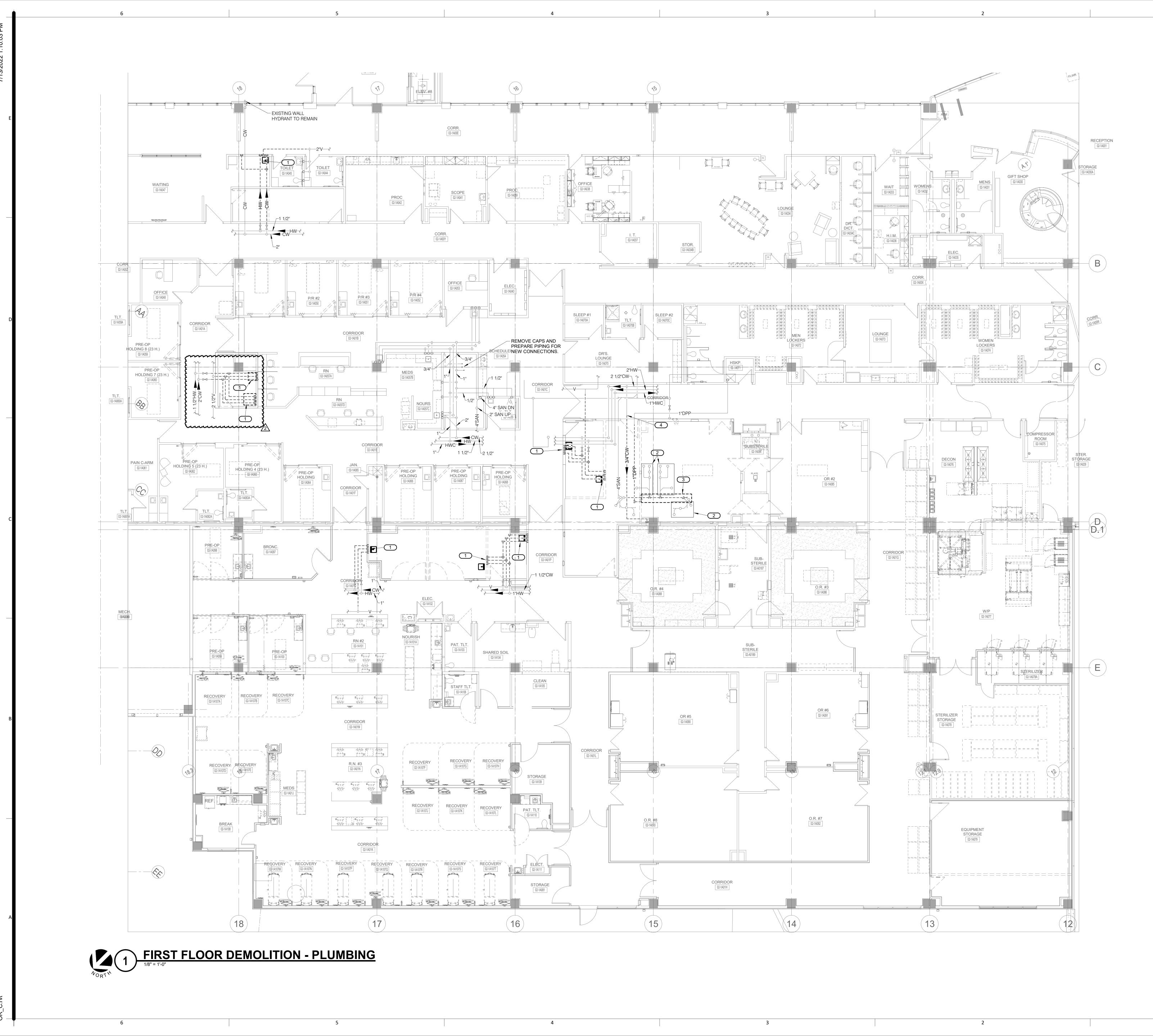
#### **PLUMBING + MEDICAL GAS SHEET INDEX** PLUMBING + MEDICAL GAS COVERSHEET

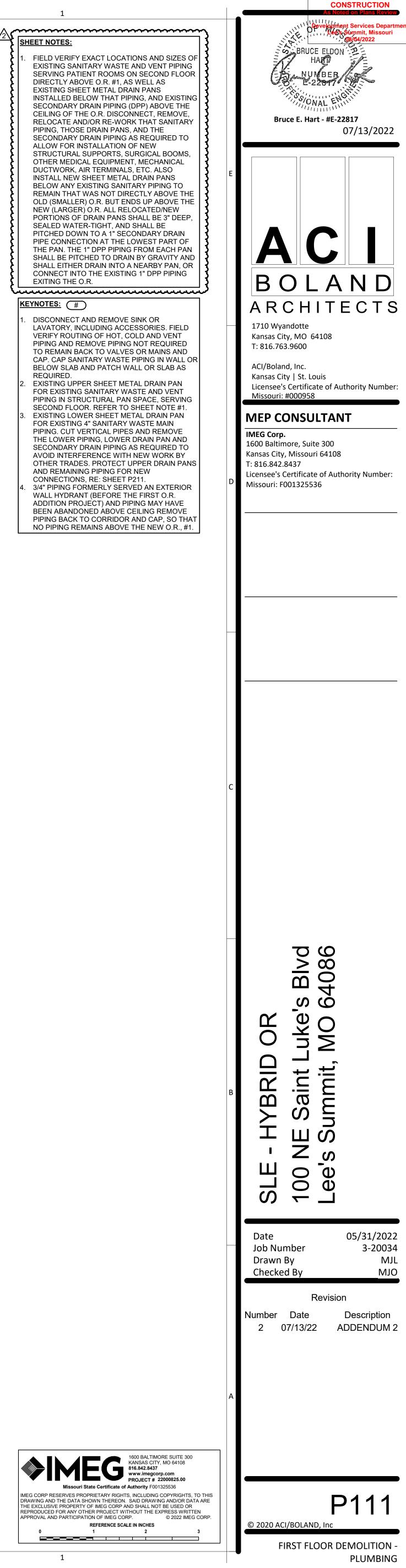
00	
11	FIRST FLOOR DEMOLITION - PLUMBING
21	FIRST FLOOR DEMOLITION - MED GAS
10	UNDERSLAB - PLUMBING
11	FIRST FLOOR - PLUMBING
21	FIRST FLOOR - MEDICAL GAS
00	PLUMBING SCHEDULES
RAND TOTAL: 7	

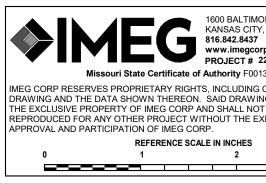
1600 BALTIMORE SUITE 300 KANSAS CITY, MO 64108 816.842.8437 www.imegcorp.com PROJECT # 22000825.00 Missouri State Certificate of Authority F001325536 MEG CORP RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG CORP AND SHALL NOT BE USED OR PRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG CORP. REFERENCE SCALE IN INCHES 

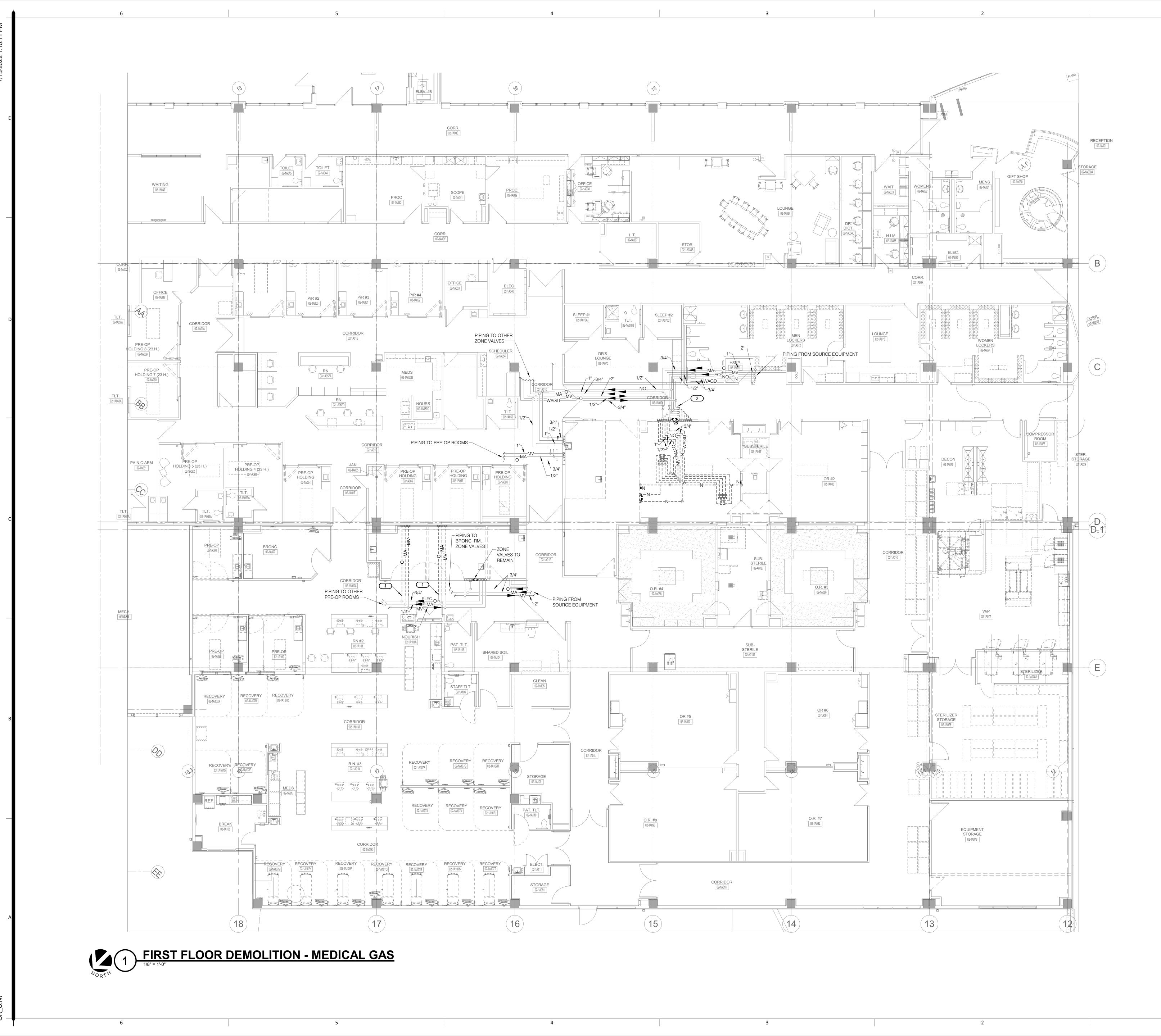


PLUMBING + MEDICAL GAS COVERSHEET







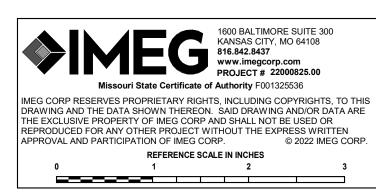


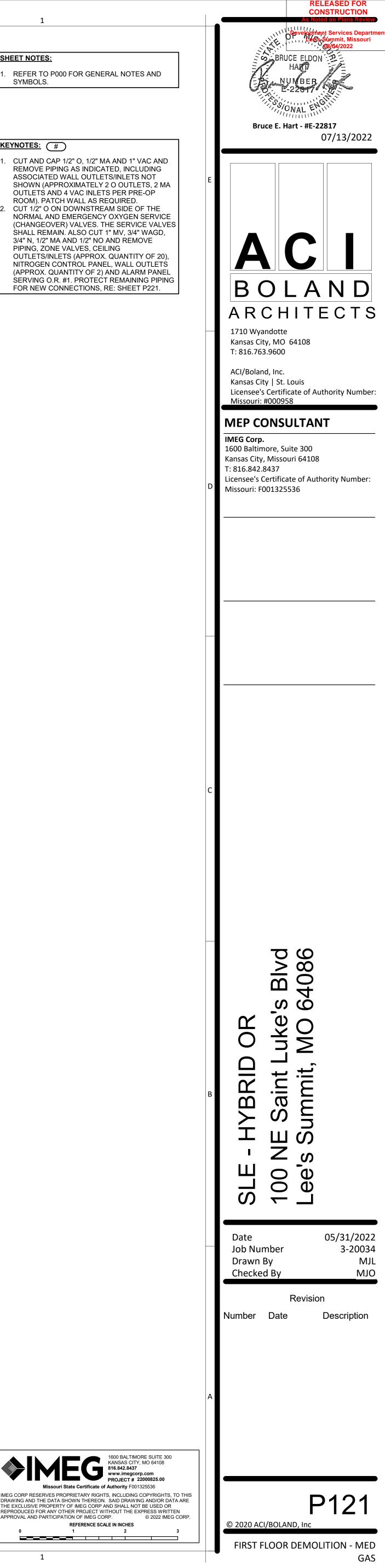
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#### SHEET NOTES:

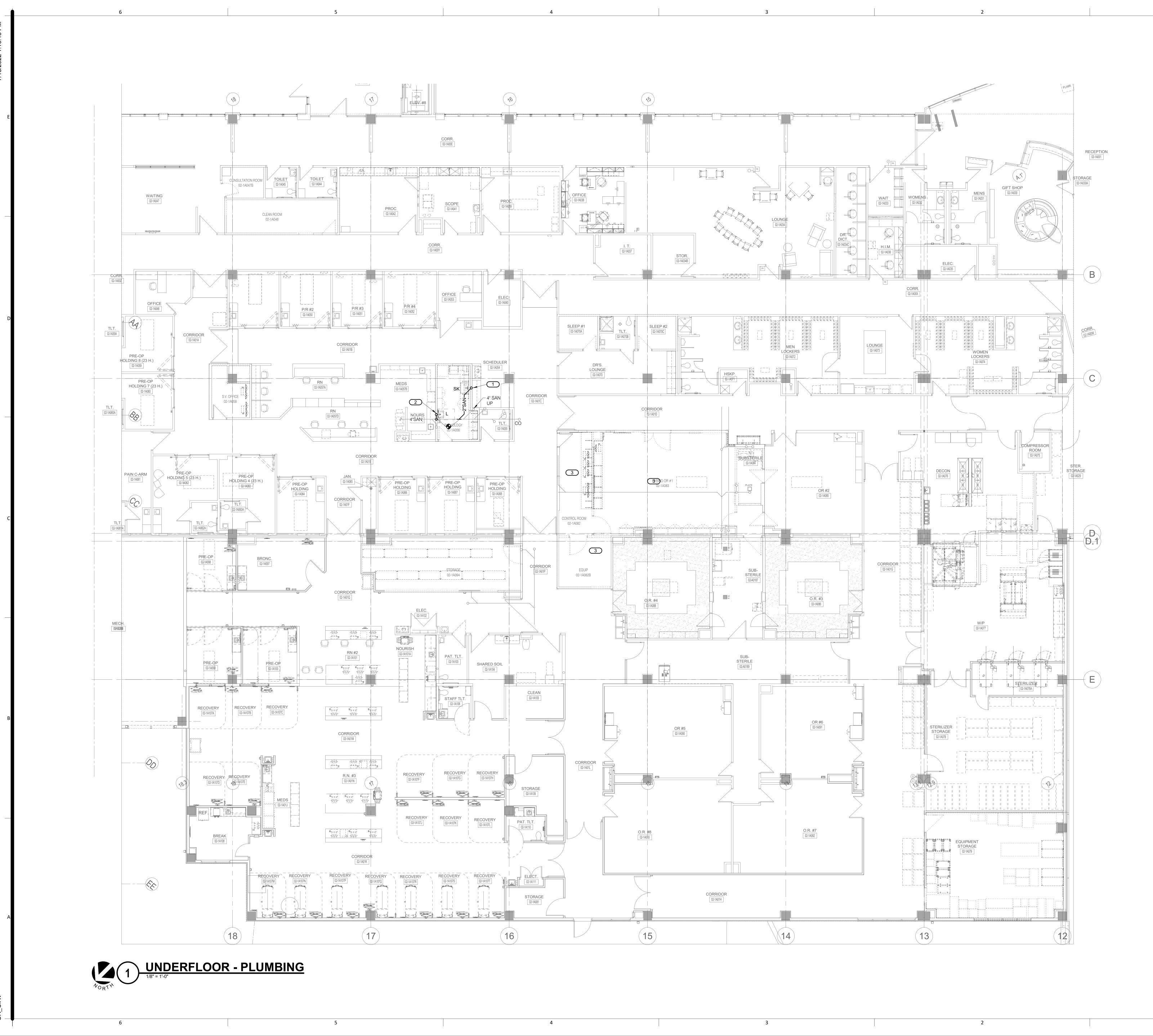
. REFER TO P000 FOR GENERAL NOTES AND SYMBOLS.

## KEYNOTES: # . 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









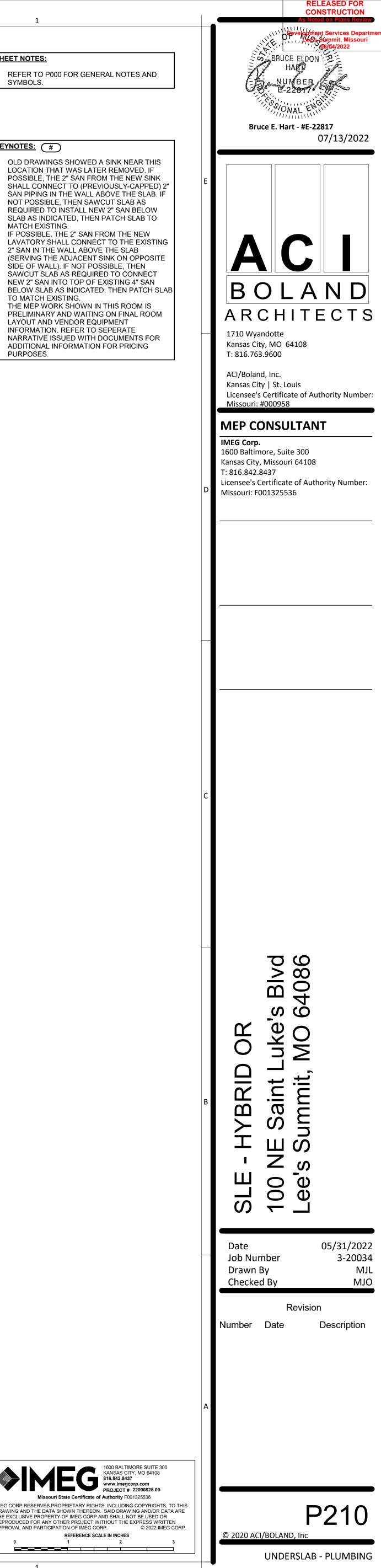
# SHEET NOTES:

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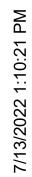
. REFER TO P000 FOR GENERAL NOTES AND SYMBOLS.

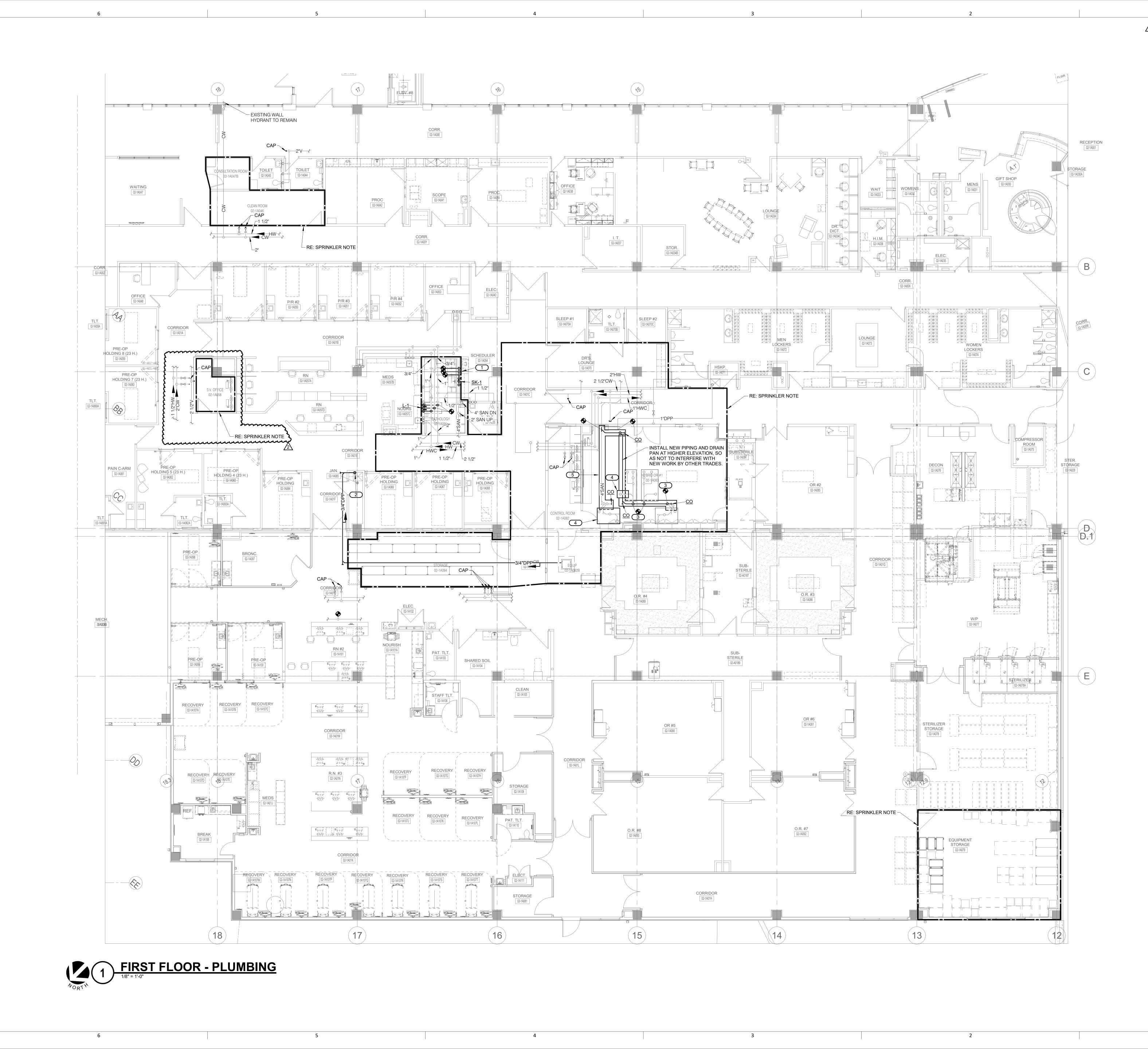
#### KEYNOTES: # OLD DRAWINGS SHOWED A SINK NEAR THIS LOCATION THAT WAS LATER REMOVED. IF POSSIBLE, THE 2" SAN FROM THE NEW SINK SHALL CONNECT TO (PREVIOUSLY-CAPPED) 2" SAN PIPING IN THE WALL ABOVE THE SLAB. IF NOT POSSIBLE, THEN SAWCUT SLAB AS REQUIRED TO INSTALL NEW 2" SAN BELOW SLAB AS INDICATED, THEN PATCH SLAB TO SLAB AS INDICATED, THEN ATOMOLOGIES TO MATCH EXISTING. 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. THE MEP WORK SHOWN IN THIS ROOM IS PRELIMINARY AND WAITING ON FINAL ROOM LAYOUT AND VENDOR EQUIPMENT INFORMATION. REFER TO SEPERATE NARRATIVE ISSUED WITH DOCUMENTS FOR

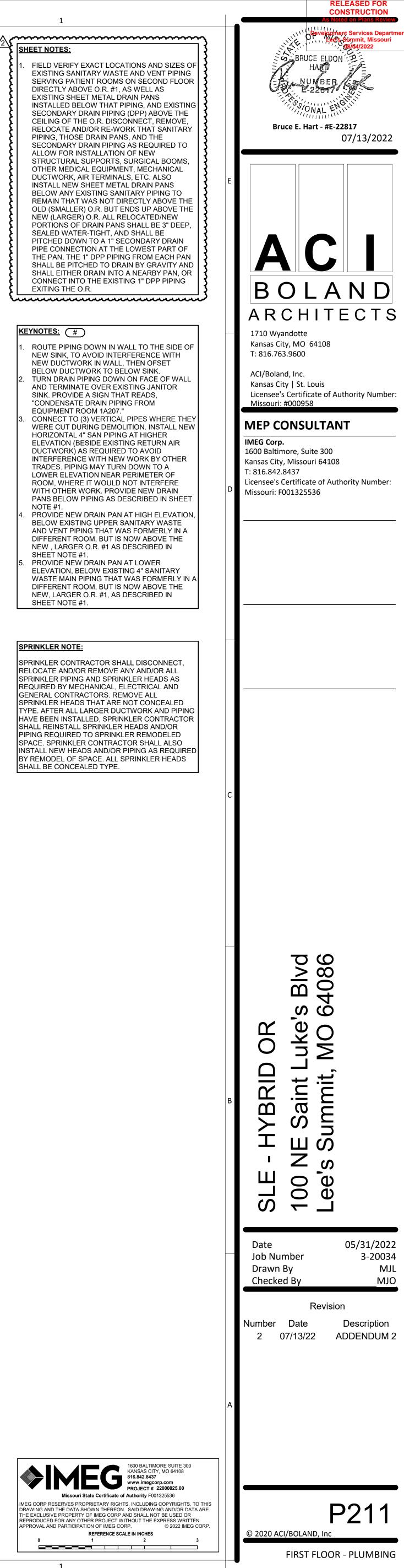
1600 BALTIMORE SUITE 300 KANSAS CITY, MO 64108 816.842.8437 www.imegcorp.com PROJECT # 22000825.00 Missouri State Certificate of Authority F001325536 IMEG CORP RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG CORP AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG CORP. © 2022 IMEG CO REFERENCE SCALE IN INCHES 1 2 

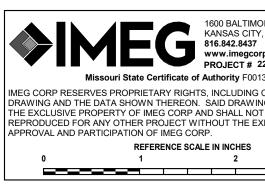


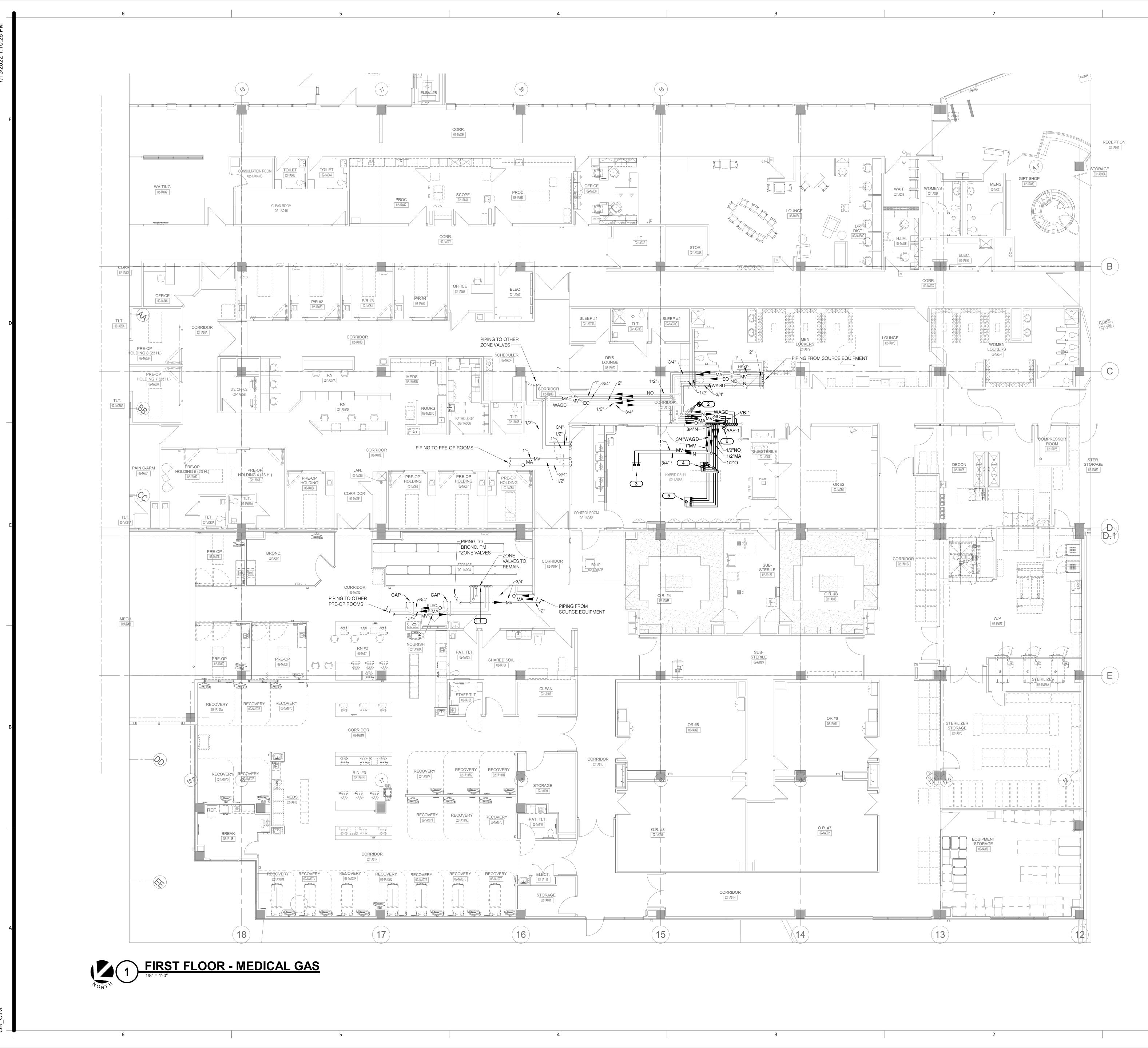










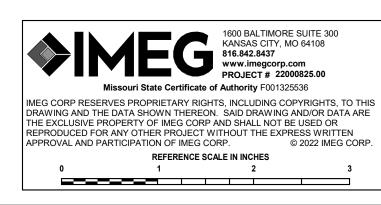


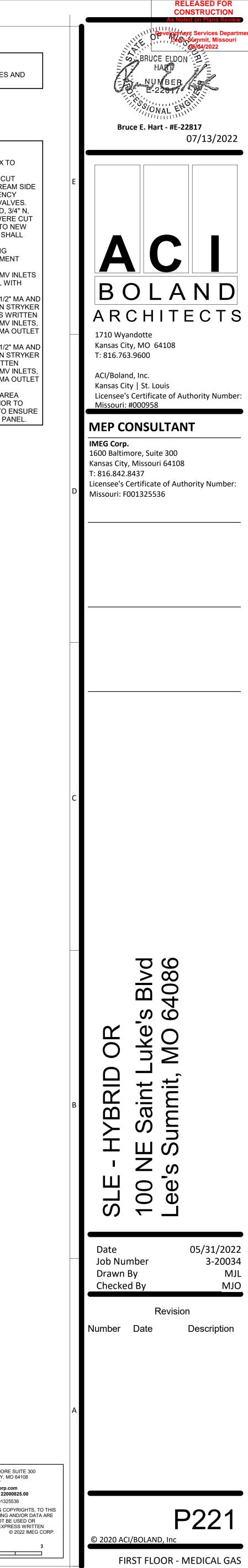
# SHEET NOTES:

#### I. REFER TO P000 FOR GENERAL NOTES AND SYMBOLS.

#### KEYNOTES: # UPDATE LABEL ON ZONE VALVE BOX TO REFLECT ROOMS SERVED. 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. CONNECT 1" MV AND 3/4" N TO PIPING CONNECTIONS ON STRYKER EQUIPMENT BOOM, PER STRYKER'S WRITTEN INSTRUCTIONS. BOOM TO HAVE (4) MV INLETS AND (1) NITROGEN CONTROL PANEL WITH OUTLET. 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. BOOM TO HAVE (2) MV INLETS, (1) WAGD INLET, (2) O OUTLETS, (1) MA OUTLET ÀŃD (1) NO OUTLÈT. CONNECT 1" MV, 3/4" WAGD, 1/2" O, 1/2" MA AND

- 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. BOOM TO HAVE (2) MV INLETS, (1) WAGD INLET, (2) O OUTLETS, (1) MA OUTLET AND (1) NO OUTLET.
   COORDINATE EXACT LOCATION OF AREA ALARM BANEL WITH ADCULTECT DRIOP TO
- ALARM PANEL WITH ARCHITECT PRIOR TO INSTALLATION OF PIPING IN WALL, TO ENSURE PIPING DOES NOT INTERFERE WITH PANEL.



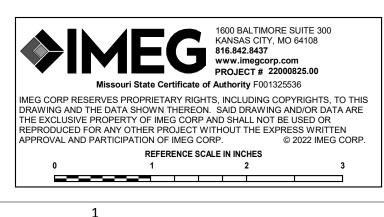


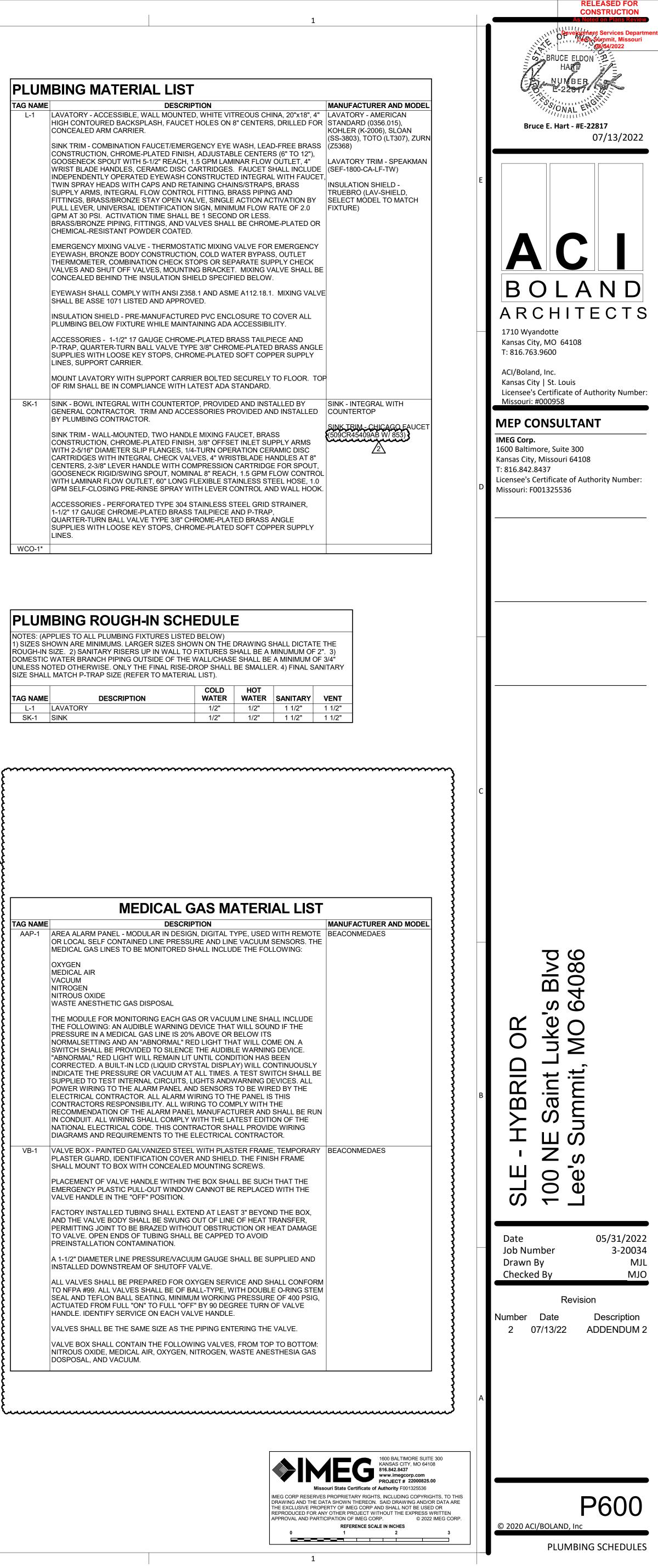
<ul> <li>L-1</li> <li>LAVATORY - ACCESSIBLE, WALL MOUNTED, WHITE VITREOUS CHINA, 20"x18", 4" HIGH CONTOURED BACKSPLASH, FAUCET HOLES ON 8" CENTERS, DRILLED FOR S CONCEALED ARM CARRIER.</li> <li>SINK TRIM - COMBINATION FAUCET/EMERGENCY EYE WASH, LEAD-FREE BRASS CONSTRUCTION, CHROME-PLATED FINISH, ADJUSTABLE CENTERS (6" TO 12"), GOOSENECK SPOUT WITH 51/2" REACH, 1.5 GPM LAMINAR FLOW OUTLET, 4" WRIST BLADE HANDLES, CERAMIC DISC CARRIDGES. FAUCET SHALL INCLUDE ( INDEPENDENTLY OPERATED EYEWASH CONSTRUCTED INTEGRAL WITH FAUCET, TWIN SPRAY HEADS WITH CAPS AND RETAINING CHAINS/STRAPS, BRASS INDEPENDENTLY OPERATED EYEWASH CONSTRUCTED INTEGRAL WITH FAUCET, TWIN SPRAY HEADS WITH CAPS AND RETAINING CHAINS/STRAPS, BRASS INDEPENDENTLY OPERATED EYEWASH CONSTRUCTED INTEGRAL WITH FAUCET, TWIN SPRAY HEADS WITH CAPS AND RETAINING CHAINS/STRAPS, BRASS INDEPENDENTLY OPERATED EYEWASH CONSTRUCTED INTEGRAL WITH FAUCET, TWIN SPRAY HEADS WITH CAPS AND RETAINING CHAINS/STRAPS, BRASS INDEPENDENTLY OPERATED EYEWASH CONSTRUCTION ACTIVATION BY PULL LEVER, UNIVERSAL IDENTIFICATION SIGN, MINIMUM FLOW RATE OF 2.0 GPM AT 30 PSI. ACTIVATION TIME SHALL BE 1 SECOND OR LESS. BRASS/BRONZE PIPING, FITTINGS, AND VALVES SHALL BE CHROME-PLATED OR CHEMICAL-RESISTANT POWDER COATED.</li> <li>EMERGENCY MIXING VALVE - THERMOSTATIC MIXING VALVE FOR EMERGENCY EYEWASH, BRONZE BODY CONSTRUCTION, COLD WATER BYPASS, OUTLET THERMOMETER, COMBINATION CHECK STOPS OR SEPARATE SUPPLY CHECK VALVES AND SHUT OFF VALVES, MOUNTING BRACKET. MIXING VALVE SHALL BE CONCEALED BEHIND THE INSULATION SHIELD SPRCIFIED BELOW.</li> <li>EYEWASH SHALL COMPLY WITH ANSI Z358.1 AND ASME A112.18.1. MIXING VALVE SHALL BE ASSE 1071 LISTED AND APPROVED.</li> <li>INSULATION SHIELD - PRE-MANUFACTURED PVC ENCLOSURE TO COVER ALL PLUMBING BELOW FIXTURE WHILE MAINTAINING ADA ACCESSIBILITY.</li> <li>ACCESSORIES - 1-1/2" 17 GAUGE CHROME-PLATED BRASS TAILPIECE AND P-TRAP, QUARTER-TURN BALL VALVE TYPE 38" CHROME-PLATED BRASS ANGLE SUPPLIES WITH LOOSTERCTOR.</li> <li>SINK TR</li></ul>	
<ul> <li>HIGH CONTOURED BACKSPLASH, FAUCET HOLES ON 8" CENTERS, DRILLED FOR S CONCEALED ARM CARRIER.</li> <li>SINK TRIM - COMBINATION FAUCET/EMERGENCY EYE WASH, LEAD-FREE BRASS (2)</li> <li>SINK TRIM - COMBINATION FAUCET/EMERGENCY EYE WASH, LEAD-FREE BRASS (2)</li> <li>SINK TRIM - COMBINATION FAUCET/EMERGENCY EYE WASH, LEAD-FREE BRASS (2)</li> <li>CONSTRUCTION, CHROME-PLATED FINISH, ADJUSTABLE CENTERS (6" TO 12"), GOOSENECK SPOUT WITH 5-1/2" REACH, 1.5 GPM LAMINAR FLOW OUTLET, 4"</li> <li>WRIST BLADE HANDLES, CERAMIC DISC CARTRIDGES. FAUCET SHALL INCLUDE (1)</li> <li>INDEPENDENTLY OPERATED EYEWASH CONSTRUCTED INTEGRAL WITH FAUCET.</li> <li>TWIN SPRAY HEADS WITH CAPS AND RETAINING CHAINS/STRAPS, BRASS (1)</li> <li>SUPPLY ARMS, INTEGRAL FLOW CONTROL FITTING, BRASS PIPING AND T FITTINGS, BRASS/BRONZE STAY OPEN VALVE, SINGLE ACTION ACTIVATION BY PULL LEVER, UNIVERSAL IDENTFICATION SIGN, MINIMUM FLOW RATE OF 2.0 GPM AT 30 PSI. ACTIVATION TIME SHALL BE 1 SECOND OR LESS.</li> <li>BRASS/BRONZE PIPING, FITTINOS, AND VALVES SHALL BE CHROME-PLATED OR CHEMICAL-RESISTANT POWDER COATED.</li> <li>EMERGENCY MIXING VALVE - THERMOSTATIC MIXING VALVE FOR EMERGENCY EYEWASH, BRONZE BODY CONSTRUCTION, COLD WATER BYPASS, OUTLET THERMOMETER, COMBINATION CHECK STOPS OR SEPARATE SUPPLY CHECK VALVES AND SHUT OF VALVES, MOUNTING BRACKET. MIXING VALVE SHALL BE CONCEALED BEHIND THE INSULATION SHIELD SPECIFIED BELOW.</li> <li>EYEWASH SHALL COMPLY WITH ANSI Z358.1 AND ASME A112.18.1. MIXING VALVE SHALL BE ASSE 1071 LISTED AND APPROVED.</li> <li>INSULATION SHIELD - PRE-MANUFACTURED PVC ENCLOSURE TO COVER ALL PLUMBING BELOW FIXTURE WHILE MAINTAINING ADA ACCESSIBILITY.</li> <li>ACCESSORIES - 1-1/2" 17 GAUGE CHROME-PLATED BRASS TAILPIECE AND P-TRAP, QUARTER. TURB BALL VALVE TYPE 3%" CHROME-PLATED BRASS ANOLE SUPPLIES WITH LOOSE KEY STOPS, CHROME-PLATED SECURELY TO FLOOR. TOP OF RIM SHALL BE IN COMPLIANCE WITH LATEST ADA STANDARD.</li> <li>SIKK - BOWL INTEGRAL WITH COUNTERTOP, PROVIDED AN</li></ul>	MANUFACTURER AND MODE
GENERAL CONTRACTOR. TRIM AND ACCESSORIES PROVIDED AND INSTALLED BY PLUMBING CONTRACTOR. SINK TRIM - WALL-MOUNTED, TWO HANDLE MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, 3/8" OFFSET INLET SUPPLY ARMS WITH 2-5/16" DIAMETER SLIP FLANGES, 1/4-TURN OPERATION CERAMIC DISC CARTRIDGES WITH INTEGRAL CHECK VALVES, 4" WRISTBLADE HANDLES AT 8" CENTERS, 2-3/8" LEVER HANDLE WITH COMPRESSION CARTRIDGE FOR SPOUT, GOOSENECK RIGID/SWING SPOUT, NOMINAL 8" REACH, 1.5 GPM FLOW CONTROL	<ul> <li>R STANDARD (0356.015), KOHLER (K-2006), SLOAN (SS-3803), TOTO (LT307), ZUF (Z5368)</li> <li>E LAVATORY TRIM - SPEAKMA (SEF-1800-CA-LF-TW)</li> <li>INSULATION SHIELD - TRUEBRO (LAV-SHIELD, SELECT MODEL TO MATCH FIXTURE)</li> <li>R</li> <li>VE</li> <li>LE</li> </ul>
WITH LAMINAR FLOW OUTLET, 60" LONG FLEXIBLE STAINLESS STEEL HOSE, 1.0 GPM SELF-CLOSING PRE-RINSE SPRAY WITH LEVER CONTROL AND WALL HOOK. ACCESSORIES - PERFORATED TYPE 304 STAINLESS STEEL GRID STRAINER, 1-1/2" 17 GAUGE CHROME-PLATED BRASS TAILPIECE AND P-TRAP, QUARTER-TURN BALL VALVE TYPE 3/8" CHROME-PLATED BRASS ANGLE SUPPLIES WITH LOOSE KEY STOPS, CHROME-PLATED SOFT COPPER SUPPLY LINES.	SINK TRIM - CHICAGO FAUCI (509CR45409AB W/ 853) 2 2

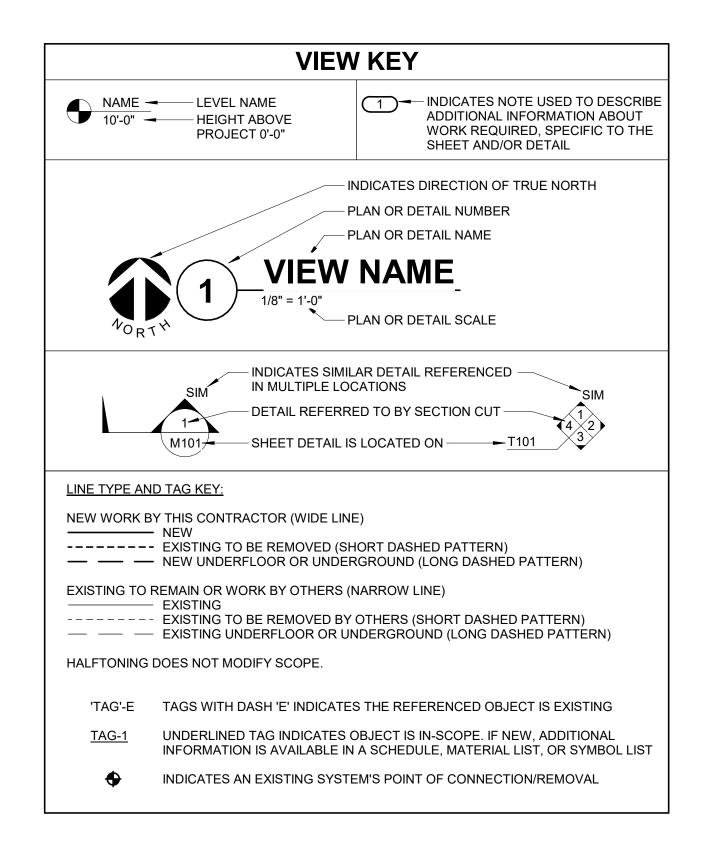
#### PLUMBING ROUGH-IN SCHEDULE

NOTES: (APPLIES TO ALL PLUMBING FIXTURES LISTED BELOW)					
1) SIZES SF	1) SIZES SHOWN ARE MINIMUMS. LARGER SIZES SHOWN ON THE DRAWING SHALL DICTATE THE				
ROUGH-IN S	ROUGH-IN SIZE. 2) SANITARY RISERS UP IN WALL TO FIXTURES SHALL BE A MINUMUM OF 2". 3)				
	DOMESTIC WATER BRANCH PIPING OUTSIDE OF THE WALL/CHASE SHALL BE A MINIMUM OF 3/4"				
	UNLESS NOTED OTHERWISE. ONLY THE FINAL RISE-DROP SHALL BE SMALLER. 4) FINAL SANITARY				
SIZE SHALL MATCH P-TRAP SIZE (REFER TO MATERIAL LIST).					
SIZE SHALL WATCH FTRAF SIZE (REFER TO WATERIAL LIST).					
SIZE SHALL	MATCH P-TRAP SIZE (REFER TO MATERIA	AL LIST).			
	MATCH P-TRAP SIZE (REFER TO MATERI/	,	нот		
	``````````````````````````````````````	COLD	HOT		VENT
TAG NAME	``````````````````````````````````````	,	HOT WATER	SANITARY	VENT
TAG NAME	``````````````````````````````````````	COLD		<b>SANITARY</b> 1 1/2"	<b>VENT</b> 1 1/2"

<b></b>		
	MEDICAL GAS MATERIAL LIST	
TAG NAME AAP-1	AREA ALARM PANEL - MODULAR IN DESIGN, DIGITAL TYPE, USED WITH REMOTE OR LOCAL SELF CONTAINED LINE PRESSURE AND LINE VACUUM SENSORS. THE	MANUFACTURER AND MODE
	MEDICAL GAS LINES TO BE MONITORED SHALL INCLUDE THE FOLLOWING:	
	MEDICAL AIR VACUUM	
	NITROGEN NITROUS OXIDE WASTE ANESTHETIC GAS DISPOSAL	
	THE MODULE FOR MONITORING EACH GAS OR VACUUM LINE SHALL INCLUDE THE FOLLOWING: AN AUDIBLE WARNING DEVICE THAT WILL SOUND IF THE DRESSURE IN A MEDICAL CAS LINE IS 20% ABOVE OR BELOW ITS	
	PRESSURE IN A MEDICAL GAS LINE IS 20% ABOVE OR BELOW ITS NORMALSETTING AND AN "ABNORMAL" RED LIGHT THAT WILL COME ON. A SWITCH SHALL BE PROVIDED TO SILENCE THE AUDIBLE WARNING DEVICE.	
	"ABNORMAL" RED LIGHT WILL REMAIN LIT UNTIL CONDITION HAS BEEN CORRECTED. A BUILT-IN LCD (LIQUID CRYSTAL DISPLAY) WILL CONTINUOUSLY	
	INDICATE THE PRESSURE OR VACUUM AT ALL TIMES. A TEST SWITCH SHALL BE SUPPLIED TO TEST INTERNAL CIRCUITS, LIGHTS ANDWARNING DEVICES. ALL	
	POWER WIRING TO THE ALARM PANEL AND SENSORS TO BE WIRED BY THE ELECTRICAL CONTRACTOR. ALL ALARM WIRING TO THE PANEL IS THIS	
	CONTRACTORS RESPONSIBILITY. ALL WIRING TO COMPLY WITH THE RECOMMENDATION OF THE ALARM PANEL MANUFACTURER AND SHALL BE RUN IN CONDUIT. ALL WIRING SHALL COMPLY WITH THE LATEST EDITION OF THE	
	NATIONAL ELECTRICAL CODE. THIS CONTRACTOR SHALL PROVIDE WIRING DIAGRAMS AND REQUIREMENTS TO THE ELECTRICAL CONTRACTOR.	
VB-1	VALVE BOX - PAINTED GALVANIZED STEEL WITH PLASTER FRAME, TEMPORARY PLASTER GUARD, IDENTIFICATION COVER AND SHIELD. THE FINISH FRAME SHALL MOUNT TO BOX WITH CONCEALED MOUNTING SCREWS.	BEACONMEDAES
	PLACEMENT OF VALVE HANDLE WITHIN THE BOX SHALL BE SUCH THAT THE EMERGENCY PLASTIC PULL-OUT WINDOW CANNOT BE REPLACED WITH THE VALVE HANDLE IN THE "OFF" POSITION.	
	FACTORY INSTALLED TUBING SHALL EXTEND AT LEAST 3" BEYOND THE BOX, AND THE VALVE BODY SHALL BE SWUNG OUT OF LINE OF HEAT TRANSFER, PERMITTING JOINT TO BE BRAZED WITHOUT OBSTRUCTION OR HEAT DAMAGE TO VALVE. OPEN ENDS OF TUBING SHALL BE CAPPED TO AVOID PREINSTALLATION CONTAMINATION.	
	A 1-1/2" DIAMETER LINE PRESSURE/VACUUM GAUGE SHALL BE SUPPLIED AND INSTALLED DOWNSTREAM OF SHUTOFF VALVE.	
	ALL VALVES SHALL BE PREPARED FOR OXYGEN SERVICE AND SHALL CONFORM TO NFPA #99. ALL VALVES SHALL BE OF BALL-TYPE, WITH DOUBLE O-RING STEM SEAL AND TEFLON BALL SEATING, MINIMUM WORKING PRESSURE OF 400 PSIG, ACTUATED FROM FULL "ON" TO FULL "OFF" BY 90 DEGREE TURN OF VALVE HANDLE. IDENTIFY SERVICE ON EACH VALVE HANDLE.	
	VALVES SHALL BE THE SAME SIZE AS THE PIPING ENTERING THE VALVE.	
	VALVE BOX SHALL CONTAIN THE FOLLOWING VALVES, FROM TOP TO BOTTOM: NITROUS OXIDE, MEDICAL AIR, OXYGEN, NITROGEN, WASTE ANESTHESIA GAS DOSPOSAL, AND VACUUM.	







ABBR:	DESCRIPTION:
A.C.	ASBESTOS ABATEMENT CONTRACTOR
A.V.C.	AUDIO/VISUAL 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

**CONTRACTOR ABBREVIATION KEY** 

	MECHANICAL SYMBOL LIST
	NOT ALL SYMBOLS MAY APPLY.
SYMBOL:	DESCRIPTION:
BD	BOILER BLOW DOWN
——BF———	BOILER FEED WATER
CA	
—CBR—— —CBS——	CHILLED BEAM RETURN CHILLED BEAM SUPPLY
CR	CONDENSER WATER RETURN
CS	CONDENSER WATER SUPPLY
—CS15——	CLEAN STEAM - NUMBER INDICATES PRESSURE IN PSIG.
—CWR—— —CWS——	CHILLED WATER RETURN CHILLED WATER SUPPLY
—DPP——	DRAIN
—FOR—	FUEL OIL RETURN
—FOS—	FUEL OIL SUPPLY
G	NATURAL GAS GAS REGULATOR VENT
GWR	GLYCOL WATER RETURN
—GWS——	GLYCOL WATER SUPPLY
HCR-	
—HCS—— —HG——	HEATING/CHILLED WATER SUPPLY REFRIGERANT HOT GAS
-HPC	HIGH PRESSURE CONDENSATE
—HPS——	HIGH PRESSURE STEAM
-HWR	HEATING WATER RETURN
—HWS—— —LCS——	HEATING WATER SUPPLY LOW PRESSURE CLEAN STEAM
— —LIQ—	REFRIGERANT LIQUID
-LPC	LOW PRESSURE CONDENSATE
LPS-	LOW PRESSURE STEAM
—LWR—— —LWS——	LOOP WATER RETURN LOOP WATER SUPPLY
MV	MEDICAL VACUUM
—_PC—	PUMPED CONDENSATE
PD	PUMPED DISCHARGE
-RCR	RADIANT COOLING RETURN
—RCS—— —RWR——	RADIANT COOLING SUPPLY REHEAT WATER RETURN
—RWS—	REHEAT WATER SUPPLY
—suc—	REFRIGERANT SUCTION
SV	SAFETY RELIEF VENT
—VAC——	LAB VACUUM PIPE CAP
	PIPE DOWN
o	PIPE UP OR UP/DOWN
	PITCH PIPE IN DIRECTION
	DIRECTION OF FLOW IN PIPE DIELECTRIC CONNECTION
	UNION/FLANGE
—⋈——	SHUTOFF VALVE NORMALLY OPEN
<b>—</b>	SHUTOFF VALVE NORMALLY CLOSED
X	THROTTLING VALVE BALANCING VALVE (NUMBER INDICATES GPM)
	AUTOMATIC BALANCING VALVE
	MIXING VALVE
<u> </u>	CONTROL VALVE (THREE-WAY)
	CONTROL VALVE (TWO-WAY)
	SOLENOID VALVE
	CHECK VALVE
NNNN	BACKFLOW PREVENTER
nen_	
	SAFETY/RELIEF VALVE
<u></u>	PRESSURE REDUCING VALVE (LIQUID/GAS)
<u>_</u>	PRESSURE REDUCING VALVE (STEAM)
Ç-	TRIPLE DUTY VALVE (ANGLE TYPE)
_ <u>_</u>	TRIPLE DUTY VALVE (IN-LINE TYPE)
-	PUMP
Ŷ	VACUUM BREAKER
	"WYE" - STRAINER
	"WYE" - STRAINER W/SHUTOFF VALVE AND HOSE CONNECTION WITH CA
	BASKET STRAINER
— <b>I</b>	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
غ	
¦	STATIC SWITCH
FM	FLOW METER
[ 	FLOW SWITCH
—FS	FLOW SENSOR

 $- T_{T_{-}}$  STEAM TRAP (REFER TO SCHEDULE)

EJ-# #.#" IS THE EXPANSION TRAVEL INCHES

ALIGNMENT GUIDE

EXPANSION JOINT

(#.#")

—— Meter

F&T STEAM TRAP (REFER TO SCHEDULE)

	3
	MECHANICAL SYMBOL LIST
	NOT ALL SYMBOLS MAY APPLY.
SYMBOL:	DESCRIPTION:
	DIRECTION OF AIR FLOW
	FLEXIBLE DUCT
	MANUAL VOLUME DAMPER
	RISE IN DIRECTION OF AIR FLOW
	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
$\square$	4-WAY DIFFUSER WITH BLANKOFF IN ONE DIRECTION
<u>SD-1</u> 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)
H <u> </u>	HUMIDIFIER
	OPPOSED BLADE DAMPER (REFER TO SCHEDULE)
///////	PARALLEL BLADE DAMPER (REFER TO SCHEDULE)
₩ ₩	DIFFERENTIAL PRESSURE SENSOR HUMIDISTAT SENSOR
н ©	HUMIDISTAT / SENSOR
© © <sub>2</sub>	CARBON MONOXIDE SENSOR CARBON DIOXIDE SENSOR
©_2	OCCUPANCY SENSOR
Ð	PRESSURE SENSOR/MONITOR
P	PRESSURE SENSOR (DUCT MOUNTED)
Ū	THERMOSTAT/SENSOR
T	TEMPERATURE SENSOR
Ð	THERMOSTAT/SENSOR WITH HEAVY DUTY ENCLOSURE
Ţ	TEMPERATURE SENSOR WITH WELL
	THERMOMETER WITH WELL (DIAL TYPE)
	THERMOMETER WITH WELL (FILLED TYPE)
×x-y	AIRFLOW MEASUREMENT SYMBOL XX - AHU SYMBOL Y - SEQUENTIAL NUMBER

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

### **MECHANICAL RENOVATION NOTES:**

CONTROL

CONTROL

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

1. 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. 2. NOT ALL EXISTING DUCTWORK AND PIPING IS SHOWN. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK.

3. FIELD VERIFY THE AVAILABLE CLEARANCES FOR DUCTWORK AND PIPING BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.

- 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 REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO THEIR AREA OF WORK. 5. 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. 6. 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 7. 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. 8. PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION, MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS THAT
- REMAIN ACTIVE 9. 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. 10. 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

1. 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. 2. REVIEW PROJECT PHASING PLANS TO COORDINATE DEMOLITION WORK, OUTAGES, ETC. WITH AFFECTED ADJACENT AREAS. 3. PROVIDE TEMPORARY DUCTWORK, PIPING, SHUTOFF VALVES, ZONE VALVES, ZONE ALARMS, ETC. AS NEEDED TO MAINTAIN SERVICE TO ALL AREAS DURING ALL PHASES OF PROJECT

4. INSTALL TEMPORARY DUCTWORK, PIPING, SHUTOFF VALVES, ETC. AS NECESSARY TO KEEP ALL OCCUPIED SPACES OPERATIONAL THROUGHOUT ALL PHASES OF THE PROJECT 5. PHASE DEMOLITION WORK TO MINIMIZE DOWNTIME.

#### **TAB PRE-DEMOLITION NOTES:**

1. 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. 2. 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 READING, OR EC MOTOR SPEED ADJUSTMENT SETTING 3. 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. 4. 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 LOCATION(S), TAB CONTRACTOR SHALL INCLUDE A DRAWING THAT SHOWS THE LOCATIONS WHERE THE ACTUAL MEASUREMENTS WERE TAKEN. 5. TAKE A DUCT STATIC PRESSURE READING AT EACH LOCATION WHERE A DUCT TRAVERSE READING IS TAKEN AND INCLUDE IN THE PRE-DEMOLITION TAB REPORT.

6. TAB CONTRACTOR SHALL COMPILE AND SUBMIT FOUR COPIES OF THE PRE-DEMOLITION REPORT WITHIN 10 WORKING DAYS AFTER THE FIELD MEASUREMENTS ARE 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:**

1. 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 2. 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). 3. 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. 4. 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

5. TAB CONTRACTOR SHALL COMPILE AND SUBMIT COPIES OF THE FINAL POST-CONSTRUCTION TAB REPORT AS REQUIRED BY SECTION 23 05 93. 6. THE FINAL POST CONSTRUCTION REPORT SHALL INCLUDE ALL ITEMS REQUIRED IN THE

#### **PIPING GENERAL NOTES:**

1. THE SIZE OF BRANCH PIPING TO TERMINAL HEATING DEVICES AND COILS SHALL BE 3/4" UNLESS NOTED OTHERWISE. 2. PIPE DRAIN LINES FROM EQUIPMENT TO NEAREST FLOOR DRAIN. 3. INSTALL ALL REFRIGERANT LIQUID AND SUCTION PIPING SIZED PER EQUIPMENT MANUFACTURER RECOMMENDATIONS

#### **VENTILATION GENERAL NOTES:**

- 1. 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 6FEET IN LENGTH, IN WHICH CASE THE BRANCH DUCT SHALL BE SIZED AT A PRESSURE DROP OF
- 0.07"W.C. PER 100' OF DUCTWORK. 2. UNLESS NOTED OTHERWISE, THE SIZE OF EACH BRANCH DUCT TO AN AIR TERMINAL SHALL MATCH THE INLET SIZE.
- 3. ALIGN TEMPERATURE SENSORS WITH LIGHT SWITCHES AND WHEN IN CLOSE PROXIMITY TO EACH OTHER. 4. PROVIDE ACCESS DOORS AT ALL DUCT MOUNTED EQUIPMENT.
- 5. 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.
- 6. 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.

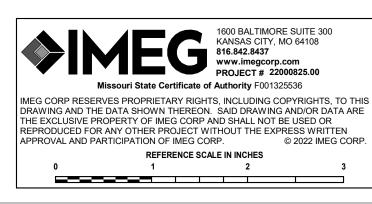
#### **MECHANICAL GENERAL NOTES:**

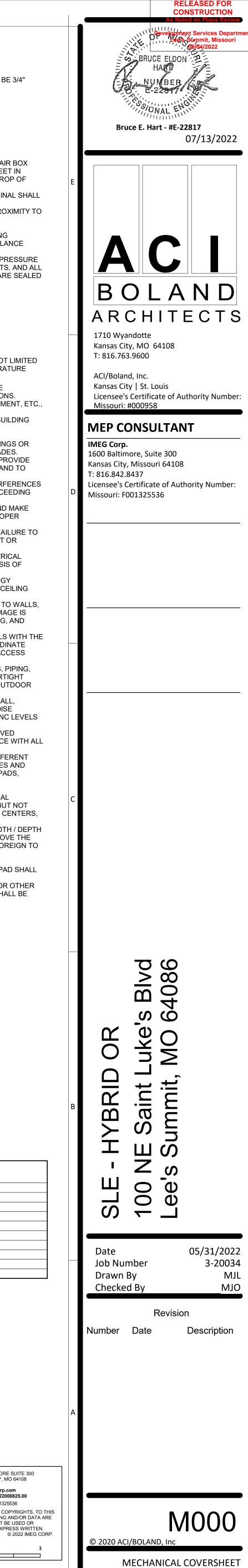
THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE CONTROL

- 1. 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
- 2. 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. 3. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES
- OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS. 4. REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS
- 5. 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.
- 6. EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF
- DESIGN. 7. 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.
- 8. 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
- 9. 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. 10. 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 11. 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 12. 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. 13. 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.
- 14. DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES. 15. 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. 16. 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. 17. PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL EXTEND MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT. 18. 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.

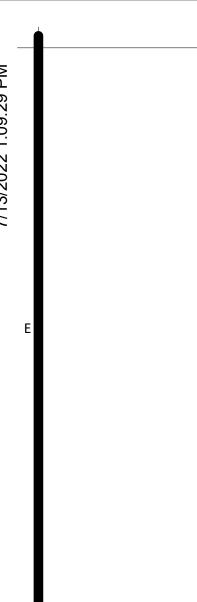
	MECHANICAL SHEET INDEX
M000	MECHANICAL COVERSHEET
M111	FIRST FLOOR DEMOLITION - VENTILATION
M121	FIRST FLOOR DEMOLITION - PIPING
M211	FIRST FLOOR - VENTILATION
M221	FIRST FLOOR - PIPING
M400	MECHANICAL DETAILS
M500	TEMPERATURE CONTROL
M600	MECHANICAL SCHEDULES
ME212	SECOND/THIRD FLOOR - VENTILATION/POWER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

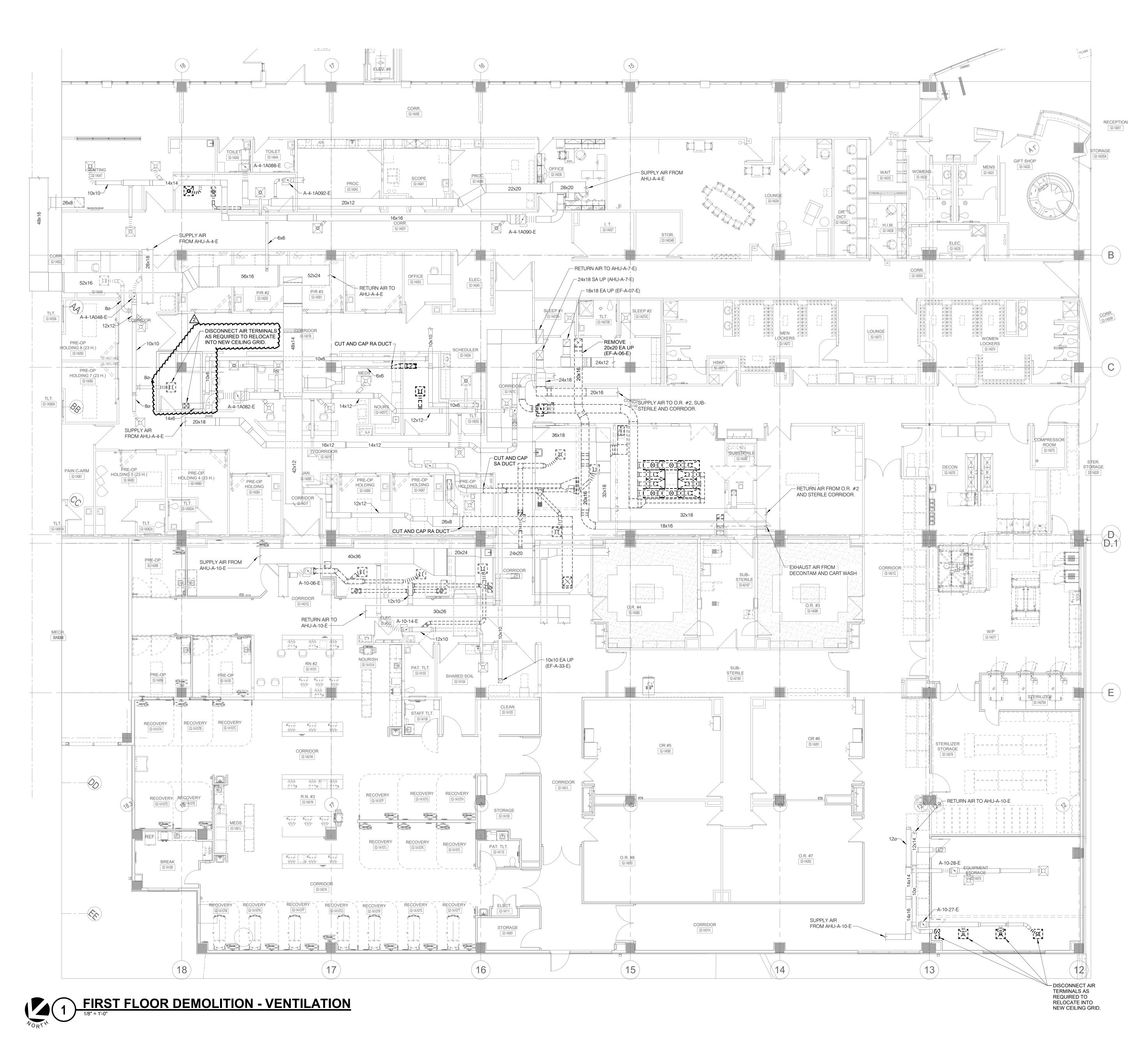




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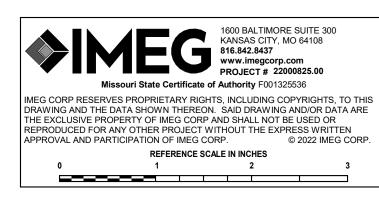


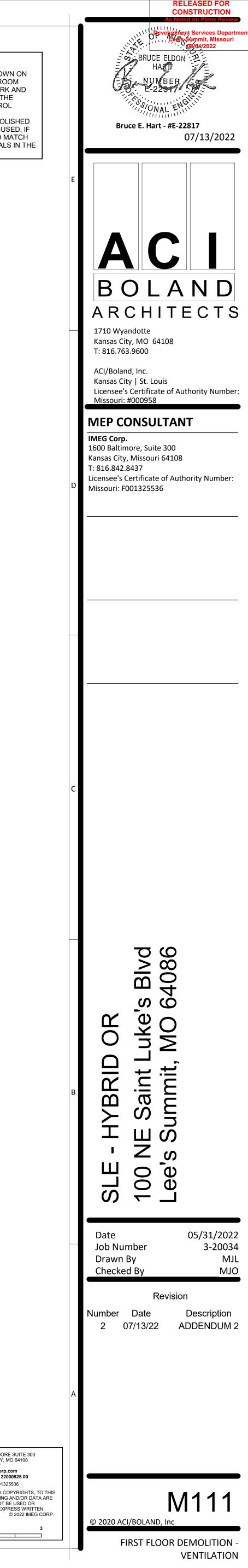
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#### SHEET NOTES: 1. SOME TERMINAL AIR BOX TAGS SHOWN ON THESE DRAWINGS ARE BASED ON ROOM NUMBERS SERVED IN THE NEW WORK AND MAY NOT MATCH THE BOX TAGS IN THE FACILITY MANAGEMENT AND CONTROL SYSTEM (FMCS). 2. AIR TERMINALS SHOWN TO BE DEMOLISHED

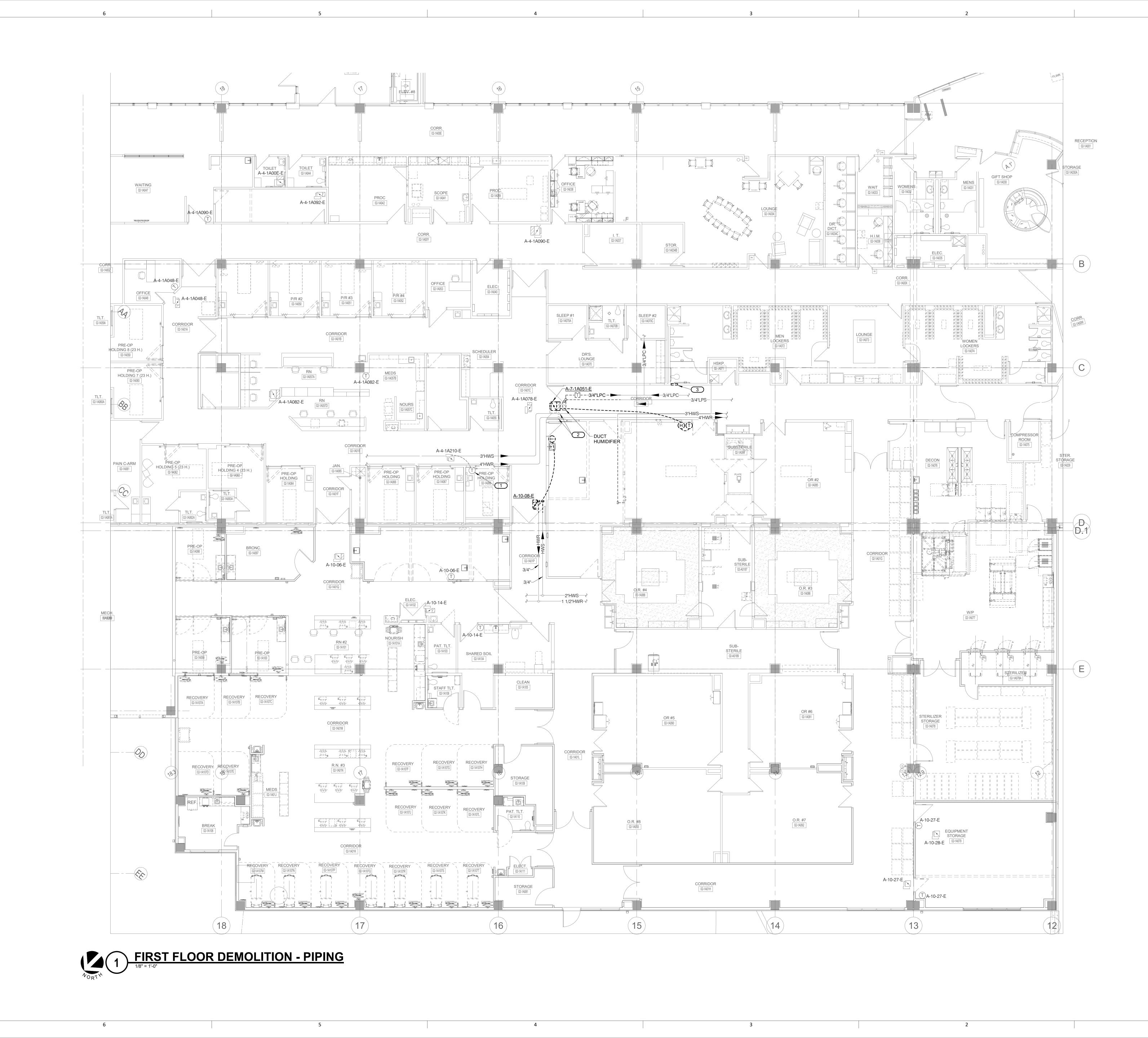
MAY INSTEAD BE CLEANED AND RE-USED, IF THEY ARE IN GOOD CONDITION AND MATCH THE TYPE AND SIZE OF AIR TERMINALS IN THE NEW DESIGN.











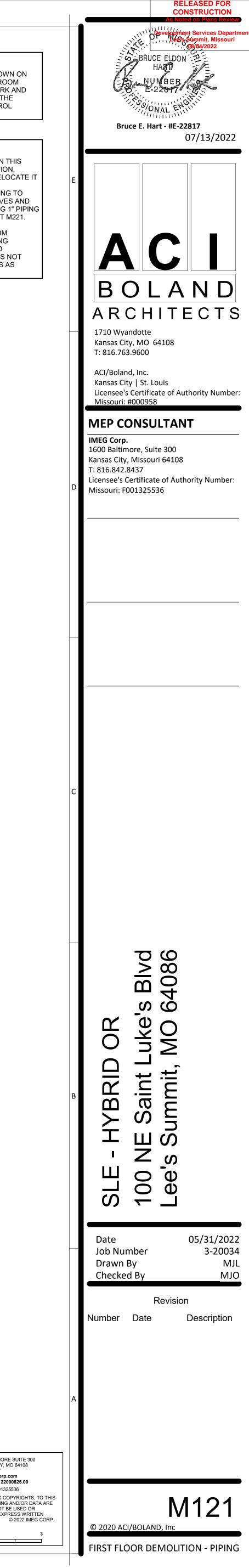
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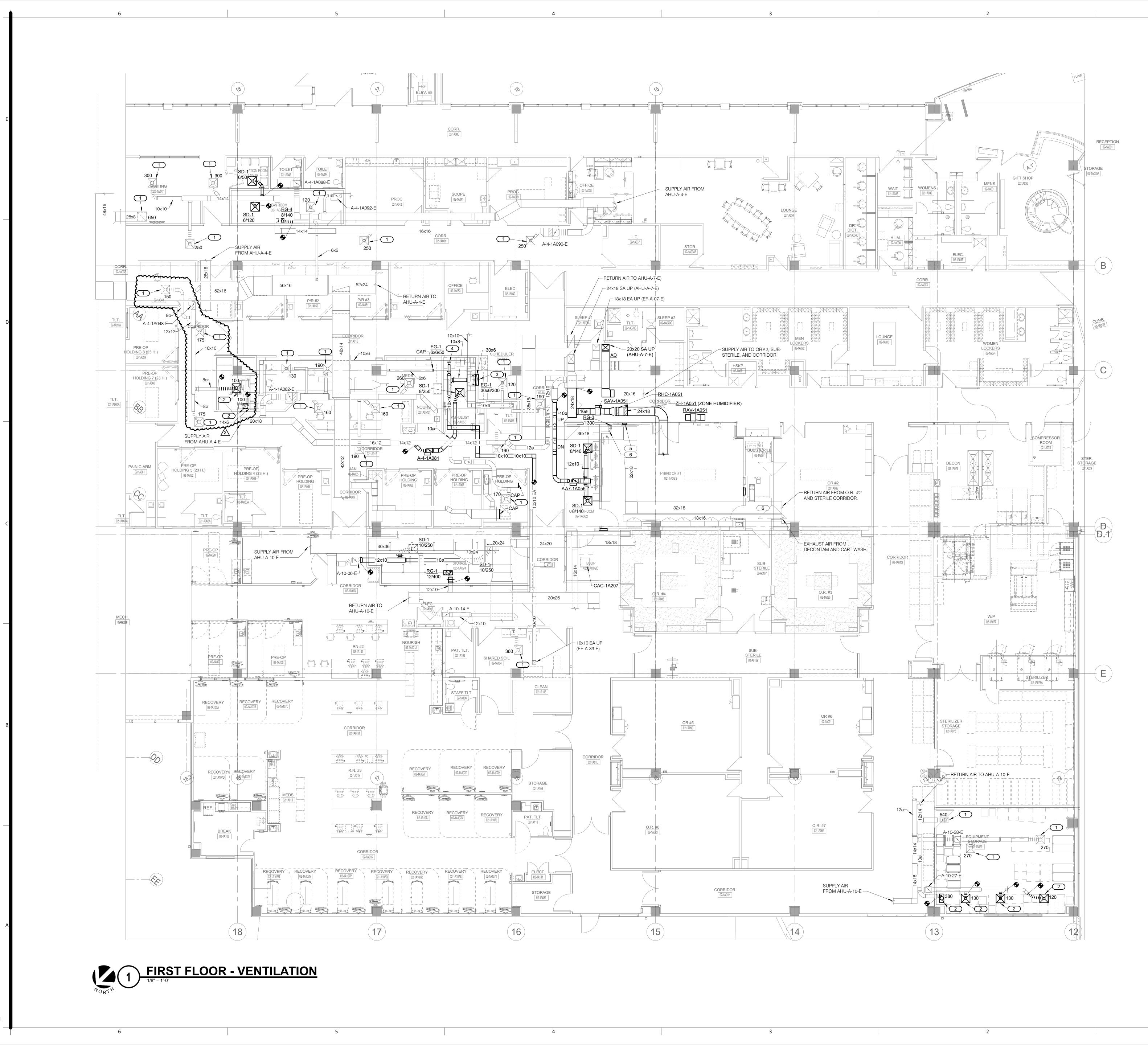
#### KEYNOTES: #

- . VERIFY THERMOSTAT IS LOCATED IN THIS ROOM. IF NOT, FIELD VERIFY LOCATION, DISCONNECT THERMOSTAT AND RELOCATE IT
- TO THIS ROOM. 2. CUT 1" HWS/HWR AND REMOVE PIPING TO TERMINAL AIR BOX, INCLUDING VALVES AND
- ACCESSORIES. PROTECT REMAINING 1" PIPING FOR NEW CONNECTIONS, RE: SHEET M221. DISCONNECT AND REMOVE OR #1
- TEMPERATURE, HUMIDITY AND ROOM PRESSURE ALARM PANEL, INCLUDING
- ASSOCIATED CONTROL WIRING AND PRESSURE SENSOR CEILING PLATES NOT SHOWN. PATCH WALL AND CEILINGS AS REQUIRED.





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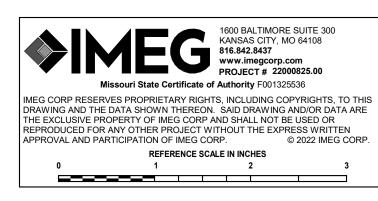
BIM 360://22000825.00 - STLH-Lee-s Summit- MO-Hybrid OR/MEP21\_22000825.00\_STLH-Lee-s Summit- M OR C.rvt

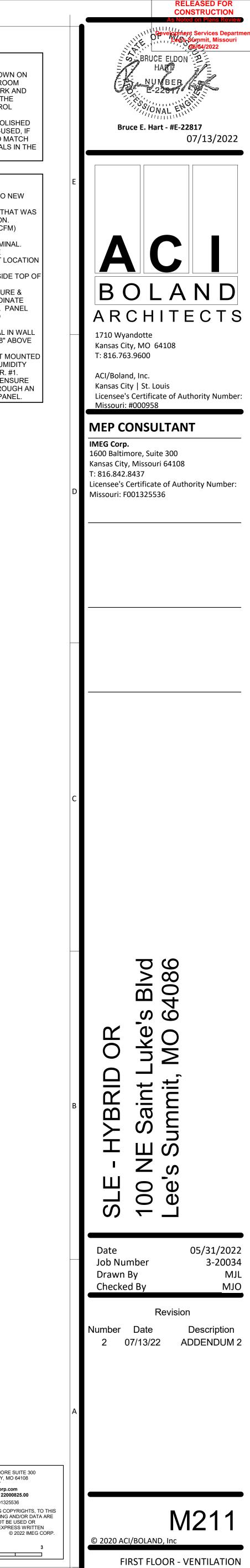
# SHEET NOTES:

- 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
- THEY ARE IN GOOD CONDITION AND MATCH THE TYPE AND SIZE OF AIR TERMINALS IN THE NEW DESIGN.

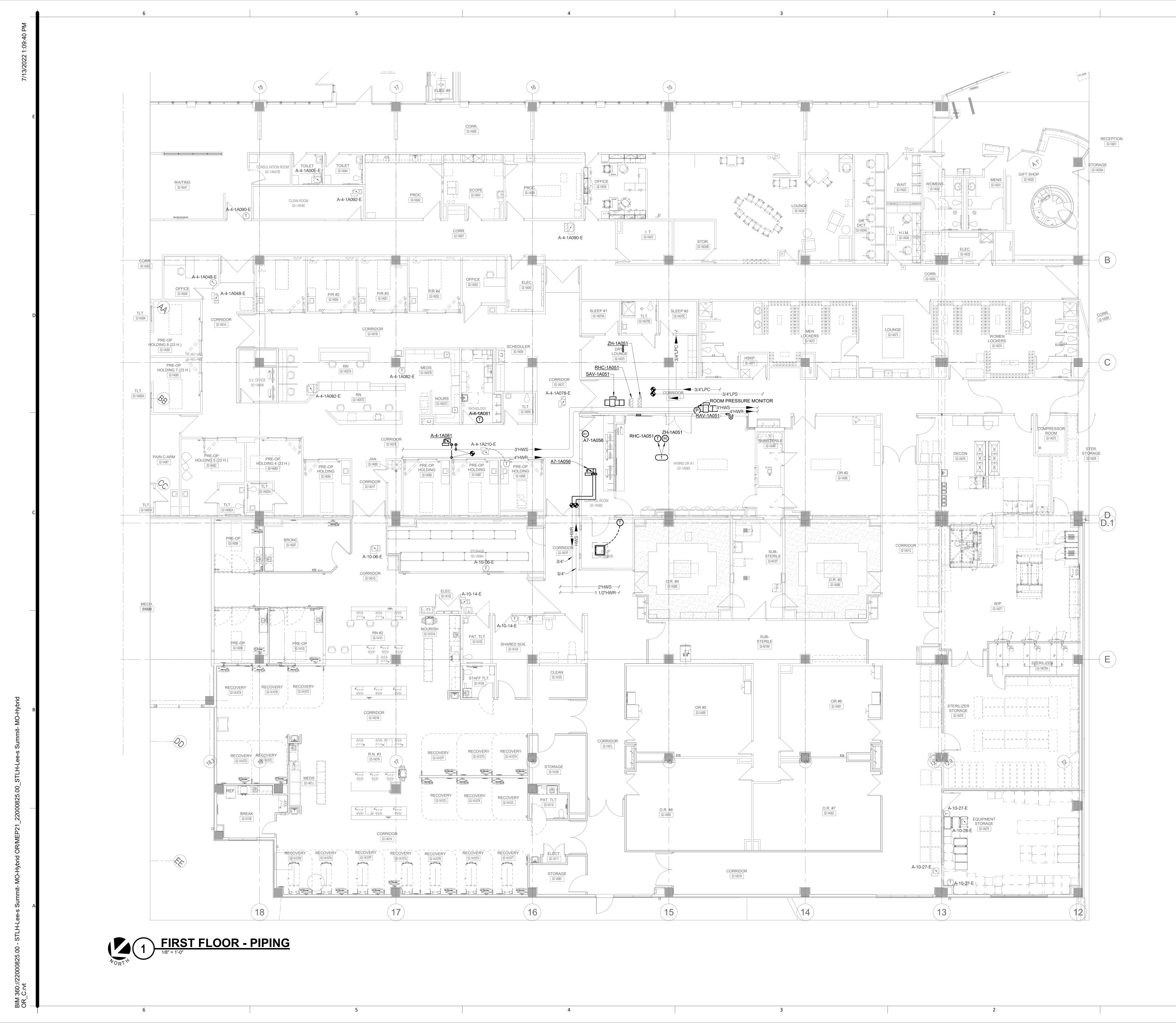
#### KEYNOTES: #

- 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. 4. 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
- COORDINATE EXACT LOCATION TO ENSURE THESE ITEMS ARE ACCESSIBLE THROUGH AN ARCHITECTURAL CEILING ACCESS PANEL.



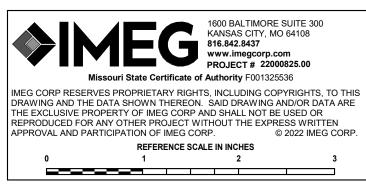


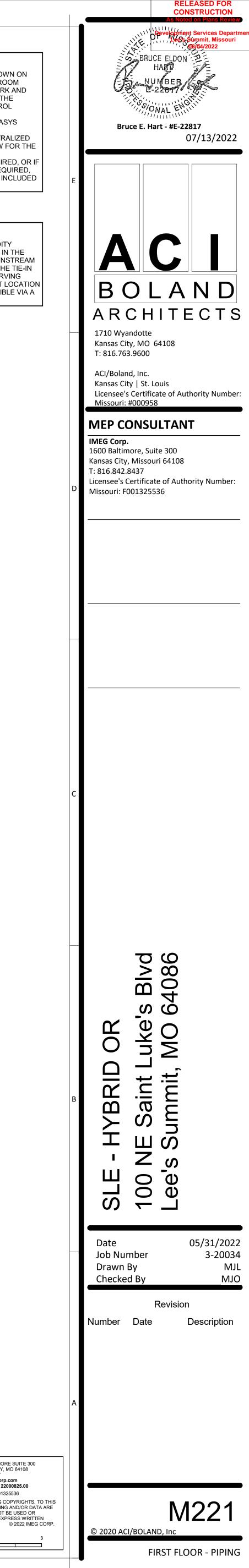
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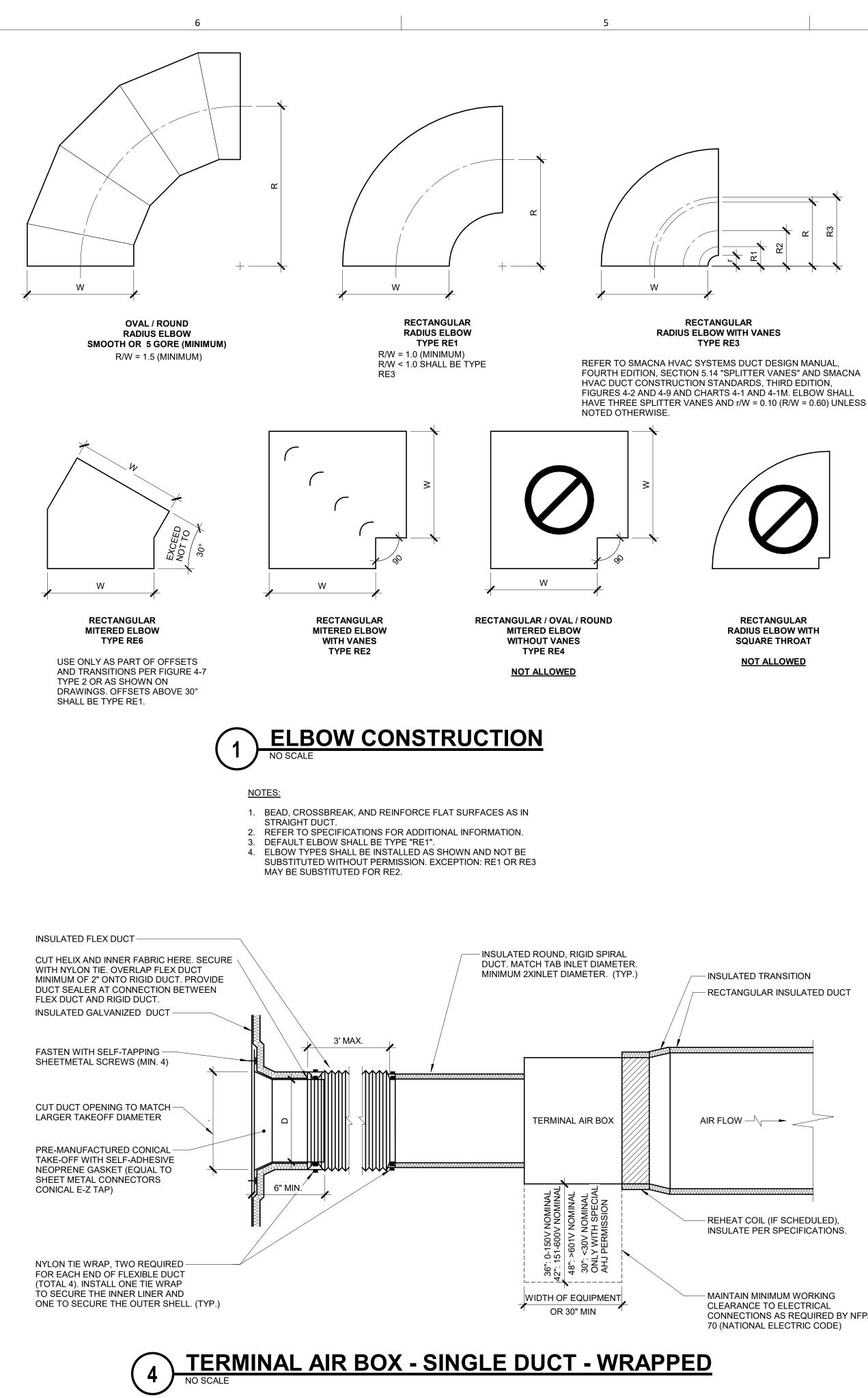


# SHEET NOTES: SOME TERMINAL AIR BOX TAGS SHOWN ON THESE DRAWINGS ARE BASED ON ROOM NUMBERS SERVED IN THE NEW WORK AND MAY NOT MATCH THE BOX TAGS IN THE FACILITY MANAGEMENT AND CONTROL SYSTEM (FMCS). EXISTING FMCS IS A JOHNSON METASYS SYSTEM. IF A NEW FMCS NETWORK CONTROLLER OR ANY OTHER CENTRALIZED HARDWARE IS REQUIRED TO ALLOW FOR THE NEW CONTROLS, OR IF NEW COMMUNICATIONS WIRING IS REQUIRED, OR IF FMCS SOFTWARE UPDATES ARE REQUIRED, THEN ANY/ALL OF THOSE SHALL BE INCLUDED IN THE SCOPE OF WORK. 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.





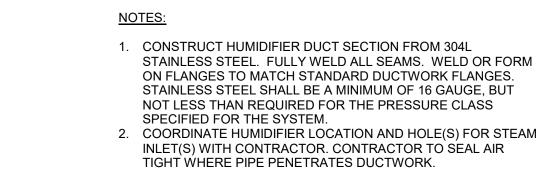


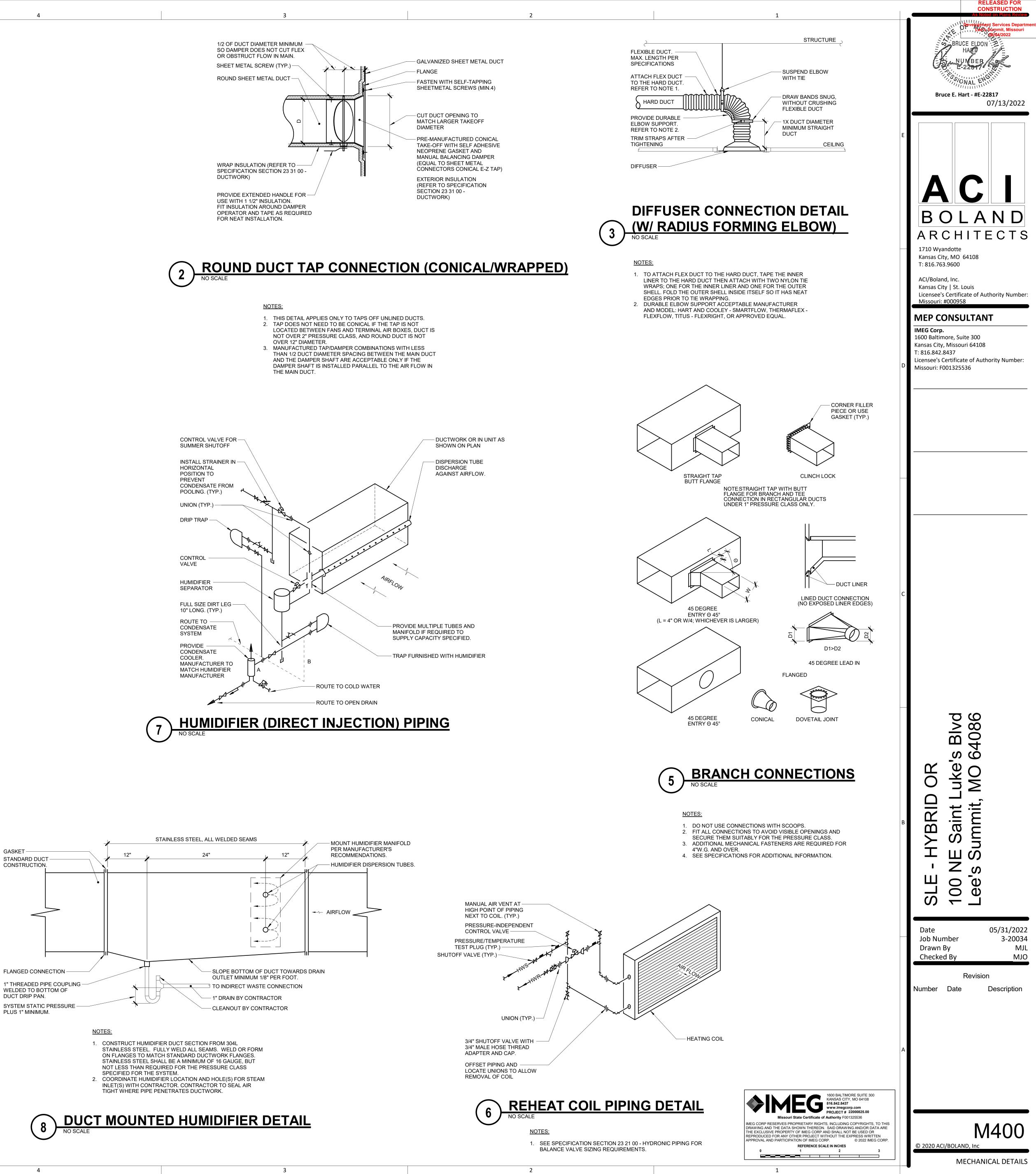
NOTES:

1. THIS DETAIL APPLIES ONLY TO TAPS OFF WRAPPED DUCTS. 2. THIS DETAIL APPLIES TO TERMINAL AIR BOXES WITH ROUND INLETS AND

RECTANGULAR OUTLETS. 3. DUCT LEADING TO TAB INLET MUST BE STRAIGHT FOR 1.5 DIAMETER

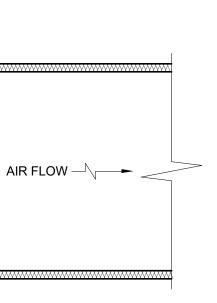
UPSTREAM. 4. MAINTAIN VAPOR BARRIER FROM MAIN TO BRANCH DUCT





#### - MAINTAIN MINIMUM WORKING CLEARANCE TO ELECTRICAL CONNECTIONS AS REQUIRED BY NFPA

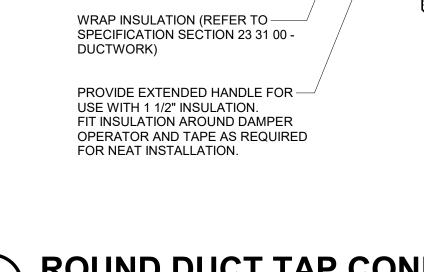
#### - REHEAT COIL (IF SCHEDULED), INSULATE PER SPECIFICATIONS.

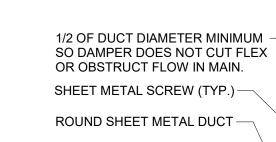


#### - INSULATED TRANSITION - RECTANGULAR INSULATED DUCT

## RECTANGULAR RADIUS ELBOW WITH SQUARE THROAT NOT ALLOWED







	CONTROL S	YMBOL	LIST
	NOT ALL SYMB	OLS MAY APPLY	
SYMBOL:	DESCRIPTION:		
CR	CONDENSER WATER RETURN		
CS	CONDENSER WATER SUPPLY CLEAN STEAM - NUMBER INDIC.		
CWR	CHILLED WATER RETURN	ATES FRESSURE	
—CWS—	CHILLED WATER SUPPLY		
——GWR——	GLYCOL WATER RETURN		
GWS	GLYCOL WATER SUPPLY		
——HCR—— ——HCS——	HEATING/CHILLED WATER RET		
——HPC——	HIGH PRESSURE CONDENSATE		
——HPS——	HIGH PRESSURE STEAM		
—HWR—	HEATING WATER RETURN		
HWS	HEATING WATER SUPPLY		
LPC	LOW PRESSURE CONDENSATE		
LWR	LOOP WATER RETURN		
LWS	LOOP WATER SUPPLY		
——PC——	PUMPED CONDENSATE REHEAT WATER RETURN		
—RWS—	REHEAT WATER SUPPLY		
VAC	LAB VACUUM		
—————————————————————————————————————	CONTROL VALVE (THREE-WAY)		
—————————————————————————————————————	CONTROL VALVE (TWO-WAY)		
	CHECK VALVE		
$\bigcirc$	THERMOSTAT THERMOSTAT/SENSOR WITH H		
T	TEMPERATURE SENSOR (DUCT		
	TEMPERATURE SENSOR WITH	WELL	
U	THERMOMETER WITH WELL (DI	AL TYPE)	
Q	THERMOMETER WITH WELL (FI	LLED TYPE)	
ئ 	()	·· <b>—</b> ,	
Ļ	AVERAGING TEMPERATURE SENSOR		
>			
2			
	LOW LIMIT TEMPERATURE		
T	SWITCH		
5			
5			
Η̈́	PROBE TEMPERATURE SENSO	R	
— <b>⋈</b> —Р	PRESSURE SENSOR (FURNISH	ED WITH BALL V	ALVE)
— <b>⋈</b> —℗	PRESSURE GAUGE (FURNISHE	D WITH BALL VAI	LVE)
	DIFFERENTIAL PRESSURE SEN	SOR	
Р	PRESSURE SENSOR (DUCT MO	UNTED)	
ר–– <b>⊰</b> ¦ ר–۶			
L - SP	STATIC SWITCH		
'		•	
AI	ANALOG INPUT		DIGITAL INPUT
$\checkmark$			
(AO)	ANALOG OUTPUT		DIGITAL OUTPUT
			HUMIDISTAT SENSOR
FM	FLOW METER	н	HUMIDISTAT / SENSOR
F	FLOW SWITCH		
— <del></del>			HUMIDITY SENSOR (DUCT MOUNTED)
— <u>FS</u> —	FLOW SENSOR		
FS	AIR FLOW SWITCH		
		©	CARBON MONOXIDE SENSOR
			CARBON DIOXIDE SENSOR
FM			
	DUCT FLOW METER		CARBON MONOXIDE SENSOR (DUCT MOUNTED)
	HUMIDIFIER	C	CARBON DIOXIDE SENSOR
		2	(DUCT MOUNTED)
DSD			
	DUCT SMOKE DETECTOR		<b>_</b>
			FILTER
Ц			
	HEATING/ COOLING COIL		TERMINAL AIR BOX
			TERMINAL AIR BOX W/ REHEAT
	AIR BLENDER	© ©	OCCUPANCY SENSOR
			SENSOR
100		ACT	
		DS	DOOR SWITCH DIFFERENTIAL PRESSURE
•~~•	MANUAL MOTOR STARTER W/THERMAL OVERLOAD	DP	SWITCH
		CS	CURRENT SWITCH
	FAN	VS	VIBRATION SWITCH
		• • •	NORMALL CLOSED CONTACT
(MTR)	MOTOR		NORMALLY OPEN CONTACT OPPOSED BLADE DAMPER
$\sim$			PARALLEL BLADE DAMPER
R	CONTACTOR		
(R)	PUMP		

TEMP	ERATURE CON
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 NO

BIM

NTROLS ABBREVIATION KEY	
	BACNET TRUNK
	CAC SYSTEM
DTES	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 SYS
	VELOCITY AND AIRFLOW ACT
	PRIMARY AIR FROM ZONE
	PRESSURE INDEPENDENT FAIL IN TERMINAL AIR BOX (TAB) PLACE
	لــــــــــــــــــــــــــــــــــــ

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#### 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 $10^\circ\mathrm{F}$ (ADJ.) ABOVE OR BELOW SETPOINT. **TAB CONTROL W/ HOT WATER REHEAT** $\left(2\right)$

SEQUENCE OF OPERATION:

CONTROL VALVE SHALL BE CLOSED.

SENSOR.

VALVE

#### **TEMPERATURE CONTROL GENERAL NOTES:**

- 1. 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.
- 2. 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.
- 3. ALL WIRING, CONTROL COMPONENTS, DEVICES AND PROGRAMMING SHOWN ON THESE CONTROL DRAWINGS SHALL BE PROVIDED BY THE TCC UNLESS SPECIFICALLY NOTED OTHERWISE.
- 4. TEMPERATURE CONTROL CABLING, CONDUIT, BOXES, IDENTIFICATION: REFER TO THE SPECIFICATIONS FOR A COMPLETE LIST OF REQUIREMENTS. 5. 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. 6. MODULATING SIGNALS SHALL BE DISPLAYED AS % OPEN (SIGNALS DISPLAYED AS %
- CLOSED ARE NOT ACCEPTABLE). 7. 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. 8. 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. 9. 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.
- 10. 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. 11. 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.
- 12. TCC SHALL PROVIDE THERMOSTATS FOR AUTOMATIC CONTROL OF EQUIPMENT AS REQUIRED BY THESE CONTROL DRAWINGS. THERMOSTAT CONTACT AMP RATING SHALL BE MINIMUM 125% 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. 13. 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.
- 14. 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.

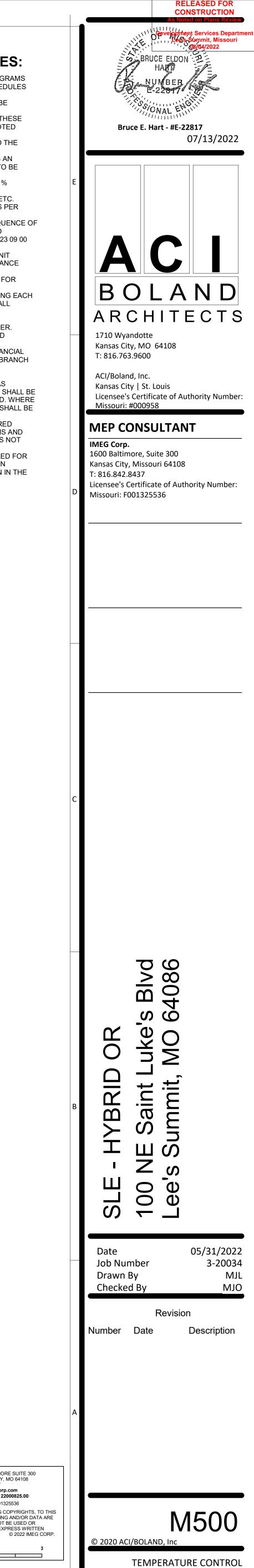
# STEM CONTROL DIAGRAM

## ACTUATOR JPPLY AIR TEMP

WALL MTD TEMP SENSOR - 2-WAY PRESSURE-INDEPENDENT CONTROL

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 AT FULL COOLING, THE TAB SHALL BE OPEN TO MAXIMUM CFM POSITION. THE REHEAT COIL 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

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PLIT S	YSTEM	UNIT	SCHEDUL	E
TEO.				

		INDOOR UNIT															OUTDOOR UNIT	-							
							COOLING		N	AX. DIMENSION	IS								OUTSIDE	E UNIT MAX. DIM	ENSIONS		1	DISCO	NNECT
L	AG NAME	AREA SERVED	CFM	MCA	VOLTAGE	PHASE	MBH	<b>HEATING MBH</b>	LENGTH	WIDTH	HEIGHT	WEIGHT	MODEL	SEER	MCA	MOCP	VOLTAGE	PHASES	HEIGHT	LENGTH	WIDTH	WEIGHT	MODEL	BY (NOTE A)	TYPE (
С	AC-1A027		1200	2.0	208	1	33.9	0	38"	38"	12"	70	TPLAOA0421EA70B	21	25	31	208	1	4'-5"	3'-6"	1'-3"	215	TRUYAO	E.C.	
																							421KA70NA		

#### 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. 3.CONTROL TYPE: 1-TAB WITH HOT WATER REHEAT. 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 TERMPERATURE CONTROLS CONTRACTORS.

		CFM		HE	ATING COII	L (NOTES	5, 6)	MIN. INLET	CONTROL TYPE	SENSOR TYPE		MODEL	
TAG NAME	COOLING MAX.	HEATING MAX.	MIN.	EAT °F	LAT °F	EWT °F	MAX. GPM	SIZE (IN.) DIA.	(NOTE 3)	(NOTE 4)	MANUFACTURER	(NOTES 1, 2)	NOTES
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

#### 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.													
						AV SIZE, CO	NFIGURATION						
	AREA	COOLING		HEATING	PRESSURE	AV SIZE, CO MIN. INLET SIZE			SENSOR TYPE				
TAG NAME	AREA SERVED	COOLING MAX.	MIN.	HEATING MAX.	PRESSURE DROP			CONTROL TYPE (NOTE 4)	SENSOR TYPE (NOTE 5)	MANUFACTURER	MODEL	NOTES	
TAG NAME RAV-1A051			<b>MIN.</b> 2350			MIN. INLET SIZE		CONTROL TYPE (NOTE 4) VARIABLE VOLUME WITH ELECTRIC ACTUATOR AND FLOW FEEDBACK		MANUFACTURER CRC	MODEL CRC-CLV-16	NOTES	

COIL SCHEDUL	.E - \	NATE	ER																
NOTES: 1.																			
		E	AT	L	۹T	TOTAL	A.P.D. IN.				W.P.D. FT.	M	AX. DIMENSION	IS	v	/EIGHT			
TAG NAME AREA SERVED	CFM	DB °F	WB °F	DB °F	WB °F	MBH	W.C.	EWT °F	LWT °F	GPM	HEAD	LENGTH	WIDTH	HEIGHT	DRY	OPERATING	MANUFACTURER	MODEL	NOTES
RHC-1A051	2600	42.0	0.0	85.0	0.0	120	0.40	190	160	8.0	5.0	24		18	0	0			

5

AIR T	ERMINAL	SCHEDU	JLE												
	OTES: CONTRACTOR SHALL DETERMINE PROPER BORDER TYPE TO MATCH CEILING CONSTRUCTION. 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							
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							

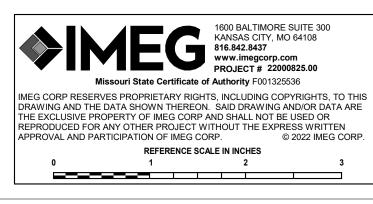
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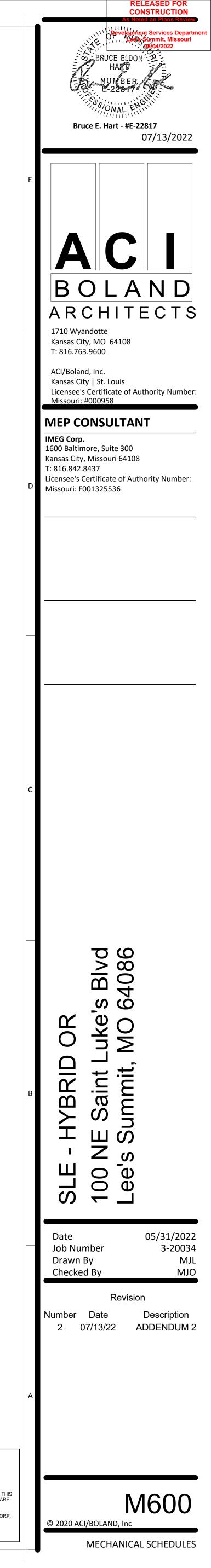
F	EXISTING T	<b>ERMIN</b>	AL AIR BOX	BALAN	ICING SCHED	ULE	
	TAGNAME	INLET SIZE	COQLING MAX-CEM		HEATING WAXIMUM CEVI	REHEATCOLGPM	J
Ł	A-4-1A048-E	8"	600	600	600	1.3	5
۲	A-4-1AU82-E	the former	1590	1590	1,590	3.4	
	A-4-1A090-E	16"	1640	1640	1,640	3.5	1
	A-4-1A210-E	8"	170	170	170		I
	A-10-06-E	12"	500	500	500	1.6	1
	A-10-14-E	8"	360	360	360	1.2	1

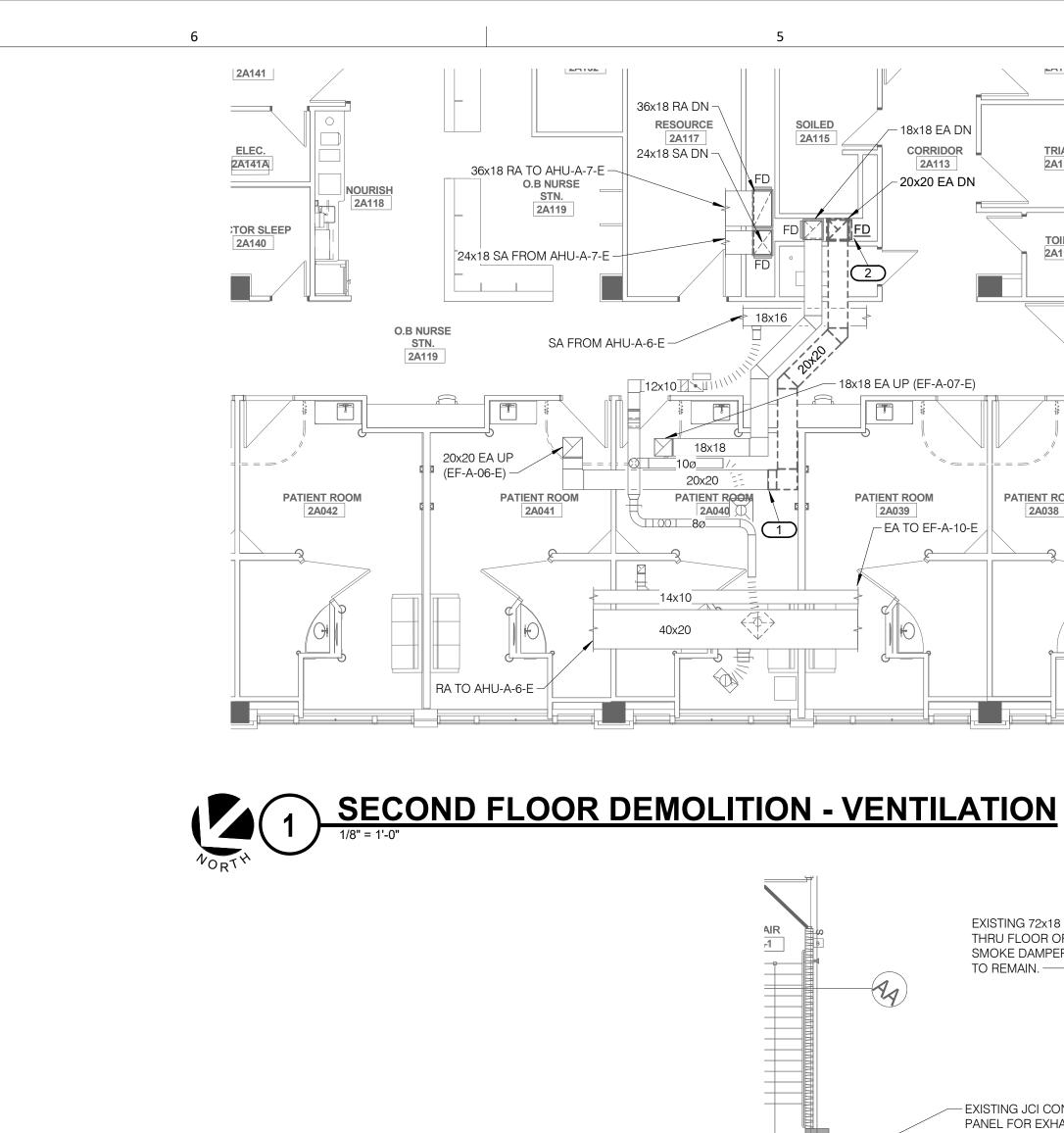
NOTES		

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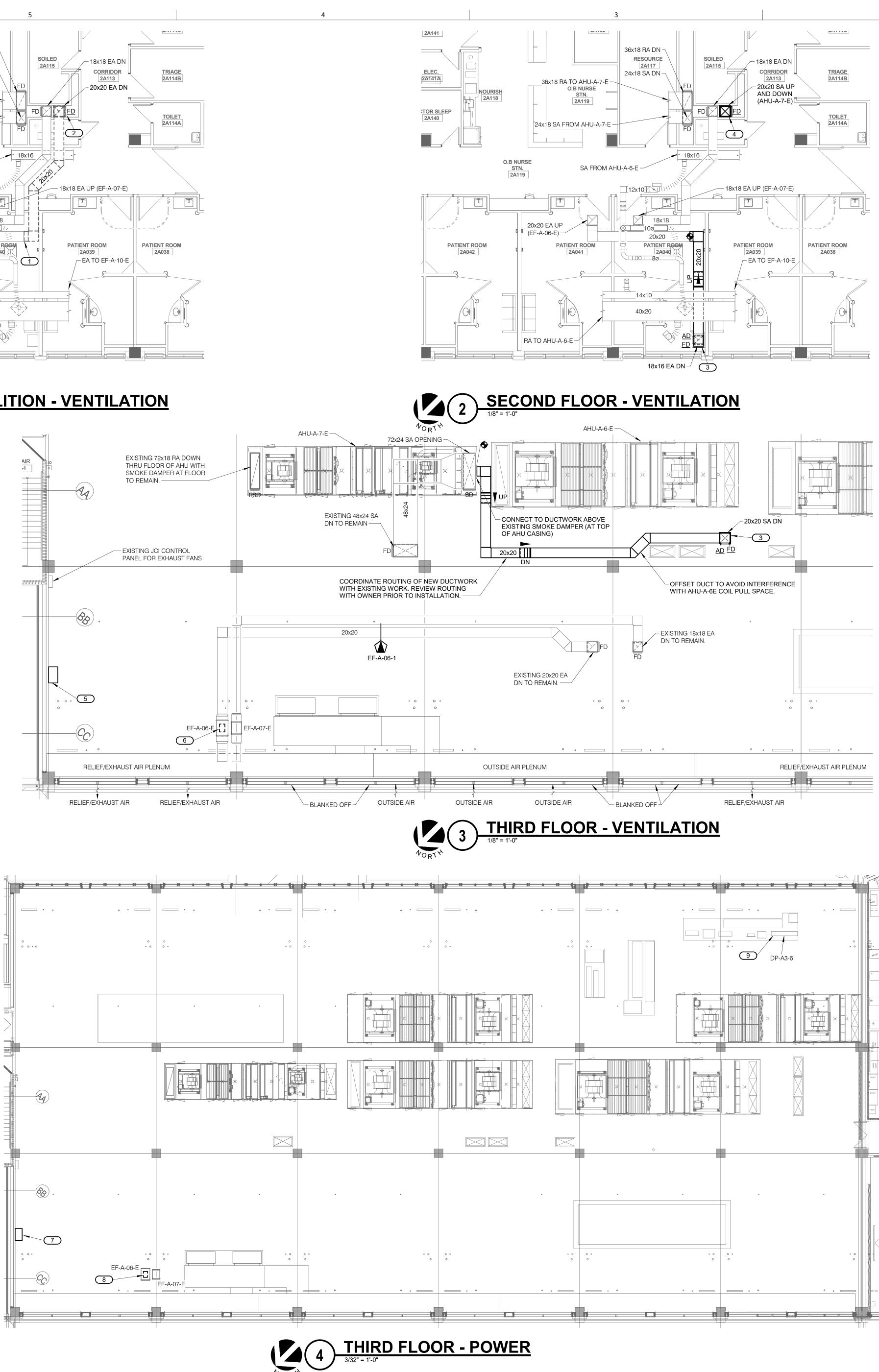
								5						4						3					2	
PLIT SYSTEM UNI	IIT SC	HEDULE																								
S: DOR UNIT IS CEILING CASSETTE DLING CAPACITY IS BASED ON IN I SHALL BE CAPABLE OF CONTIN INISH SYSTEM WITH FACTORY-M DVIDE SYSTEM WITH REFRIGER	INDOOR/EI INUOUS O -MOUNTEE	NTERING IAR CON PERATION AT OUT ) CONTROLS, INC	DITIONS OF 7 DOOR AMBIE LUDING COM	75°F DB AND 4 NT TEMPERAT MUNICATIONS	5% RH AND OUTDO TUE AS LOW AS -20 CARD TO ALLOW	OOR AMBIENT )°F. PROVIDE \ REMOTE ACC	TEMPERATURE WITH WIND BAF ESS TO THE CO	OF 105°F. SENS FFLES AS REQUIF DNTROLS THROL	RED. IGH A BACNET	COMMUNICATIONS LIN	IK, A DRAIN PA	N/LEVEL SENS		FF INDOOR UNIT	TO PREVENT D	RAIN PAN OVEF	RFLOW), A WALI	MOUNTED (NO	ſ HANDHELD) C	ONTROLLER, AI	ND A COMMON AL	ARM CONTACT.				
					INDOC										OUTDOOR UNI	Г						ELEC	TRICAL			
				COOLING			MAX. DIMENSIC	DNS								OUTSID	E UNIT MAX. DI	MENSIONS			DISCO	ONNECT	CONTROLLER	STARTER		
G NAME AREA SERVED CFM	м и	ICA VOLTAGE	PHASE	MBH	HEATING MBH	LENGTH	WIDTH	HEIGHT	WEIGHT	MODEL	SEER	MCA	MOCP	VOLTAGE	PHASES	HEIGHT	LENGTH	WIDTH	WEIGHT	MODEL	BY (NOTE A)	TYPE (NOTE B)	BY (NOTE A)	SCCR	MANUFACTURER	NOTES
-1A027 1200	00 2	2.0 208	1	33.9	0	38"	38"	12"	70	TPLAOA0421EA70B	21	25	31	208	1	4'-5"	3'-6"	1'-3"	215	TRUYAO 421KA70NA	E.C.	NF	MFR	5000	MITSUBISHI TRANE	SEE NOTES ABOVE.











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#### KEYNOTES: #

1.	CUT 20x20 EA AND REMOVE UPSTREAM DUCTWORK BACK DOWN TO FIRST FLOOR. REMOVAL OF DUCTWORK ABOVE CORRIDO WOULD REQUIRE A SHUTDOWN OF CORRID COORDINATE WITH OWNER. OWNER MAY ALLOW THAT DUCT WORK TO BE CAPPED O BOTH SIDES OF CORRIDOR AND ABANDONE IN PLACE.
2.	CUT WALL OF JANITOR CLOSET AS REQUIR TO REMOVE DUCT RISER.
3.	COORDINATE EXACT LOCATION OF NEW DU RISER WITH ARCHITECT AND STRUCTURAL ENGINEER. SAWCUT SLAB AS DIRECTED BY STRUCTURAL ENGINEER. INSTALL DUCT ACCESS DOOR ABOVE SLAB AND COORDIN WITH GENERAL CONTRACTOR TO INSTALL ARCHITECTURAL ACCESS DOOR IN FRONT THE DUCT ACCESS DOOR, IF REQUIRED FO ACCESS.
4.	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 ACCESSIB LOCATION BELOW SLAB. PATCH WALL OF JANITOR CLOSET AS REQUIRED.
5.	DISCONNECT AND REMOVE MOTOR CONTROLS (COMBINATION STARTER/DISCONNECT SWITCH) FOR EF-A- 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 VFD. 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 #EF-A-06-E WITH 6.25A FUSES. NEW FUSES SHALL MATCH

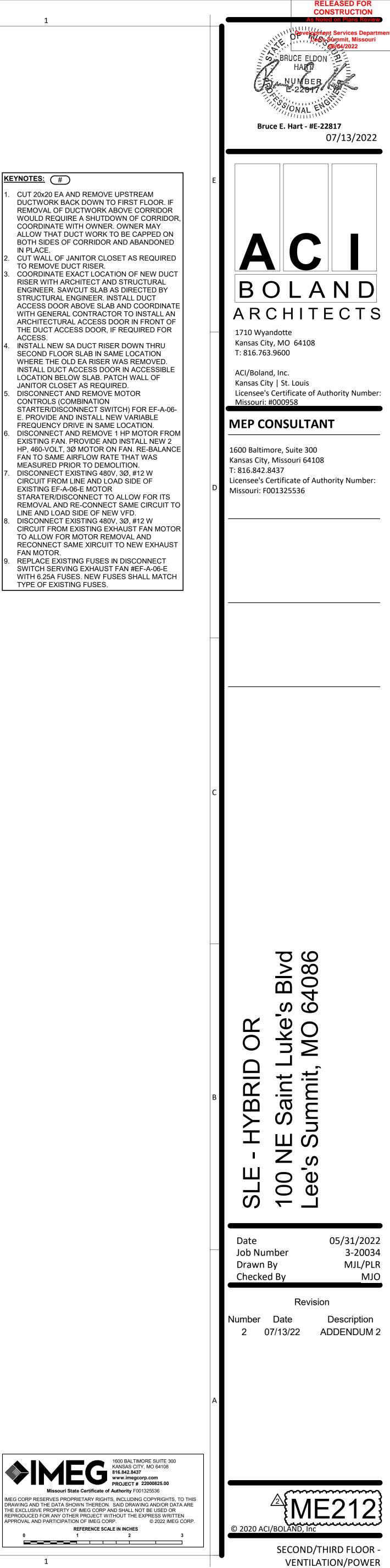
TYPE OF EXISTING FUSES.

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REFERENCE SCALE IN INCHES

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ELECTRICAL SYN **VIEW KEY** SYMBOL: | DESCRIPTION: 🖵 10'-0" 🚽 HEIGHT ABOVE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE PROJECT 0'-0" SWITCH - SINGLE POLE SHEET AND/OR DETAIL SWITCH - THREE WAY - INDICATES DIRECTION OF TRUE NORTH DIMMER - LED - PLAN OR DETAIL NUMBER WATTSTOPPER DUAL  $D_{O}$ - PLAN OR DETAIL NAME DIMMING LINE VOLTAG SENSOR: DSW-311 and a second and a second s WATTSTOPPER DIGITA D# MANAGEMENT ROOM REFERS TO NUMBER C REFERS TO 0-10V DIMM - PLAN OR DETAIL SCALE ©<sub>D</sub> WATTSTOPPER DUAL **CEILING OCCUPANCY** - INDICATES SIMILAR DETAIL REFERENCED -IN MULTIPLE LOCATIONS WATTSTOPPER DUAL \$<sub>02</sub> LINE VOLTAGE WALL C - DETAIL REFERRED TO BY SECTION CUT — SENSOR: DSW-301 \ M101<del>/-</del>--#B WATTSTOPPER DIGITAL MANAGEMENT CONTRC WITH PROGRAMMABLE LINE TYPE AND TAG KEY: **BUTTONS. # INDICATES** SWITCHES. NEW WORK BY THIS CONTRACTOR (WIDE LINE) \_\_\_\_\_ NEW ZZ INDICATES TYPE: ----- EXISTING TO BE REMOVED (SHORT DASHED PATTERN) SX: BUTTON PAD — — MEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN) BUTTONS D1: ONE BUTTON DIMMING ROCKER EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE) SWITCH – EXISTING ----- EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN) ALCR AUTOMATIC LOAD CONTROL RELAY -— — EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN) WATTSTOPPER EMERGENCY LIGHTING CONTROL UNIT. UPON LOSS OF NORMAL HALFTONING DOES NOT MODIFY SCOPE. BROUGHT TO FULL BRIGHTNESS REGARDLESS OF SWITCH POSITION. 'TAG'-E TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING PROVIDE ALL LOW VOLTAGE CABLING AS REQUIRED: ELCU-200 UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

	CONTRACTOR ABBREVIATION KEY
ABBR:	DESCRIPTION:
A.C.	ASBESTOS ABATEMENT CONTRACTOR
A.V.C.	AUDIO/VISUAL 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

ELEC	TRICAL SYMBOL LIST				
SYMBOL:	DESCRIPTION:				
	LINEAR LUMINAIRES				
	TROFFER				
0	DOWNLIGHT LUMINAIRE				
$\otimes$	SINGLE FACE EXIT SIGN				
8	DOUBLE FACE EXIT SIGN				
*♥* *♥	WALL/CEILING EMERGENCY EXIT SIGN				
	EMERGENCY UNIT				
LUM	INAIRE SYMBOL KEY				
SYMBOL:	DESCRIPTION:				
0	NORMAL BRANCH LUMINAIRE				
Ø	CRITICAL BRANCH LUMINAIRE				

MBOL LIST	
Ξ	
TECHNOLOGY SE WALL OCCUPANCY	
L LIGHTING CONTROLLER. # - DF RELAYS AND D MING CONTROLLER	
TECHNOLOGY SENSOR: LMDC-100	
TECHNOLOGY DCCUPANCY	
L LIGHTING OL STATION KEYPAD E FUNCTION S NUMBER OF	
X NUMBER OF	

POWER, EMERGENCY LIGHTING SHALL BE

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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, L16-20R, 480V, 3PH

RECEPTACLE, L16-30R, 480V, 3PH

QUAD RECEPTACLE, 125V

QUAD GFI RECEPTACLE, 125V

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, LOCKING L21-20R, 120/208V, 3PH

RECEPTACLE, LOCKING L21-30R, 120/208V, 3PH

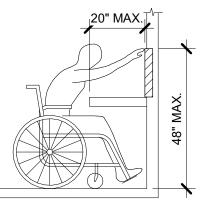
ELE	CTRICAL SYMBOL LIST
SYMBOL:	DESCRIPTION:
- L	JUNCTION BOX
C# ▼	INFORMATION OUTLET, WALL
© <sup>C#</sup>	INFORMATION OUTLET, CEILING
W	TECHNOLOGY ROUGH-IN, WALL PHONE
WAP	WIRELESS ACCESS POINT WITH ENCLOSURE CEILING
SP	SPEAKER, CEILING
TV	TV ANTENNA OUTLET
₩▼	ELECTRICAL WIREWAY WITH DEVICES SHOW
PB	MOMENTARY PUSHBUTTON OPERATOR
	PANELBOARD - RECESS MOUNT
	PANELBOARD - SURFACE MOUNT
	ISOLATED POWER PANEL
PM	OPERATING ROOM POWER MODULE
	CIRCUIT BREAKER - SURFACE MOUNTED.
Ξ	CIRCUIT BREAKER - FLUSH MOUNTED.
	DISCONNECT SWITCH

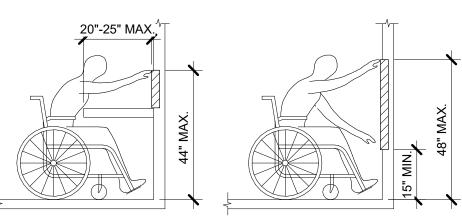
(WAP) SP IV ■ EB I I I I I I I I I I I I I	WIRELESS ACCESS POINT WITH ENCLOSURE, CEILING SPEAKER, CEILING TV ANTENNA OUTLET ELECTRICAL WIREWAY WITH DEVICES SHOWN MOMENTARY PUSHBUTTON OPERATOR PANELBOARD - RECESS MOUNT PANELBOARD - SURFACE MOUNT	Ø	Ϋ́	COS = C CARBOI H = COM DETECT ION = IC ID = IN I SA = ST SB = SC SV = ST AND 177 FIRE AL OR WAL # = CAM
	ISOLATED POWER PANEL			CD = CA DESIGN
PM	OPERATING ROOM POWER MODULE	F d	₽Ą #	AUDIO H OR WAL
	CIRCUIT BREAKER - SURFACE MOUNTED.			M = MIN S = SLE
	CIRCUIT BREAKER - FLUSH MOUNTED.			COMBIN
	DISCONNECT SWITCH			VISUAL MOUNT
				# = CAN
				CD = CA DESIGN
ELE	CTRICAL SYMBOL LIST			
ELE SYMBOL:	CTRICAL SYMBOL LIST DESCRIPTION:			DESIGN
		S	ECU	
SYMBOL:	DESCRIPTION:		ECU BOL:	DESIGN
SYMBOL: ≠⊖ ≠⊖ =⊕	DESCRIPTION: DUPLEX RECEPTACLE, 125V	SYM		
SYMBOL: = <del>0</del> + <del>0</del>	DESCRIPTION: DUPLEX RECEPTACLE, 125V DUPLEX GFI RECEPTACLE, 125V			
SYMBOL: ≠⊖ ≠⊖ =⊕	DESCRIPTION: DUPLEX RECEPTACLE, 125V DUPLEX GFI RECEPTACLE, 125V ISOLATED GROUND RECEPTACLE, 125V ISOLATED GROUND RECEPTACLE WITH SURGE	SYM	BOL:	DESIGN
SYMBOL: +⊕ +⊕ S S +⊕ S +⊕ +⊕	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	SYM CR	BOL:	DESIGN
SYMBOL: +⊕ +⊕ S +⊕ -⊕ +⊕	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		BOL:	DESIGN
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, 125V		BOL:	DESIGN
SYMBOL: +⊕ +⊕ S +⊕ -⊕ +⊕	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		BOL:	DESIGN

ELEC	TRICAL SYMBOL LIST
SYMBOL:	DESCRIPTION:
S <sup>#</sup> S <sub>#</sub>	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 / HEAT COS = 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
αŸ	FIRE ALARM VISUAL ALARM DEVICE, CEILING OR WALL MOUNT
	# = CANDELA RATING. CD = CANDELA RATING SELECTED BY NICET DESIGNER
	AUDIO HORN/CHIME ALARM DEVICE, 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

SECL	JRITY SYMBOLS LIST				
SYMBOL:	DESCRIPTION:				
CR	SECURITY CREDENTIAL READER (EXISTING), WALL				
CR1	SECURITY CREDENTIAL READER TYPE 1, WALL				
MD	INTRUSTION DETECTION MOTION DETECTOR, CEILING				
MD	INTRUSTION DETECTION MOTION DETECTOR, WALL				
AA	INTRUSTION DETECTION MOTION AUDIBLE ALARM, WALL				
DC	INTRUSTION DETECTION DOOR CONTACT SWITCH, WALL				
NURS	E CALL SYMBOL LIST				
SYMBOL:	DESCRIPTION:				
DTY	NURSE CALL DUTY STATION, WALL				

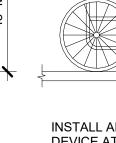
NB	NURSE CALL BED INTERFACE, WALL
Ν	NURSE CALL SINGLE PATIENT BED STATION, WALL
NC	NURSE CALL CODE BLUE STATION, WALL
NA	NURSE CALL STAFF ASSIST STATION, WALL
D	NURSE CALL DOME LIGHT, CEILING
DZ	NURSE CALL ZONE DOME LIGHT, CEILING





INSTALL ABOVE COUNTER DEVICE AT 44" ABOVE FINISHED FLOOR.

INSTALL ABOVE COUNTER INSTALL DEVICE AT 18" ABOVE FINISHED FLOOR. DEVICE AT 40" ABOVE FINISHED FLOOR. ADA GUIDELINES - FRONT ACCESS



# **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 AND DO NOT INDICATE EVERY BOX. CONDUIT, OR WIRE THAT MUST BE REMOVED. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING A BID AND VERIFY EXISTING CONDITIONS. 2. EQUIPMENT 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. BALLASTS MANUFACTURED PRIOR TO 1980 CONTAIN PCBs AND SHALL BE DISPOSED OF BY

A FEDERAL OR STATE E.P.A. APPROVED METHOD AND IN ACCORDANCE WITH SPECIFICATIONS. 4. HID AND FLUORESCENT LAMPS 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 CONDUIT AND WIRE WHERE SHOWN, MISSING OR REQUIRED TO INSTALL THE NEW LIGHT FIXTURES. 6. VERIFY MANUFACTURERS INSTALLATION GUIDELINES WITH EXISTING FIELD CONDITIONS PRIOR TO BIDDING AND 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 WHERE NECESSARY TO COVER ANY FIELD CONDITIONS THAT WOULD ALLOW INTRUSION OF WATER AND CAULK WHERE NECESSARY. 8. COORDINATE EXISTING LIGHTING CONTROL AS NECESSARY TO MEET EXISTING CONTROL SEQUENCES. 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 REPORT ANY CONFLICTS BEFORE PROCEEDING. 2. NOT ALL EXISTING EQUIPMENT, LUMINAIRES, 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

AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS. 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 REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO THEIR AREA OF WORK. 5. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CUTTING, REMOVAL AND PATCHING OF WALLS AND FLOORS ASSOCIATED WITH WORK BY ALL CONTRACTORS. CONTRACTORS SHALL NOTIFY THE GC OF AFFECTED AREAS PRIOR TO BIDDING. 6. 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 ELECTRICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, CONDUIT, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING ELECTRICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK. 8. COORDINATE ALL LUMINAIRE LOCATIONS WITH STRUCTURAL TRUSS AND BEAMS PRIOR TO ROUGH-IN

9. FULLY SHADED FIXTURES INDICATE EMERGENCY LUMINAIRES. 10. WHERE LUMINAIRE QUANTITIES OR LAYOUT DIFFER BETWEEN ELECTRICAL LIGHTING PLANS AND ARCHITECTURAL REFLECTED CEILING PLANS. HIGHER QUANTITY SHALL TAKE PRECEDENCE. CONTRACTOR SHALL CONFIRM QUANTITY AND LAYOUT WITH DESIGN TEAM.

#### **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 LAMPS, LENS OR SUBSET OF LUMINAIRES SHOULD BE TURNED OVER FOR ATTIC STOCK. 2. REMOVE EXISTING LUMINAIRES AND WALL SWITCHES WHERE SHOWN. LOCATE AND IDENTIFY ELECTRICAL CIRCUIT SERVING REMOVED LUMINAIRES FOR REUSE WITH NEW DEVICES.

3. COORDINATE HOURS OF ACCESS WITH OWNER. 4. REMOVE EXISTING LUMINAIRE AND PREPARE FOR INSTALLATION OF NEW LUMINAIRE IN SAME LOCATION OR NEW LOCATION. REFER TO E201 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

SWITCH PLATE. 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. COORDINATE NEW RUNS WITH OWNER PRIOR TO INSTALLATIONS. 8. REUSE EXISTING CONDUIT, WIRE, CONTROL AND JUNCTION BOXES. PROVIDE NEW IF REQUIRED TO INSTALL THE NEW LUMINAIRE. 9. PROVIDE (1) UNSWITCHED LEG FROM PANEL SERVING THE EMERGENCY FIXTURES TO THE SENSOR LEG SERVING THE NEW BATTERY BACK UP IN NEW LUMINAIRES. 10. CONNECT NEW LUMINAIRES TO CIRCUIT THAT SERVED PREVIOUSLY REMOVED LUMINAIRE USING THE SAME SIZE WIRE AND CONDUIT. EXTEND CONDUIT AND CONDUCTORS AS REQUIRED TO MAKE CONNECTION. CONDUIT IN GOOD CONDITION SHALL BE REUSED IN PLACE.

11. NEW OCCUPANCY SENSORS TO BE INSTALLED IN A MANUAL ON/AUTO OFF' CONFIGURATION 12. REPLACE CEILING TILES WITH LIKE IN AREAS WITH A REDUCTION IN LUMINAIRE. REUSE EXISTING CEILING TILES WHERE APPLICABLE. PROVIDE NEW TO MATCH EXISTING IF REQUIRED. ADJUST AND MOVE AIR RETURN GRILLS AS REQUIRED TO COORDINATE WITH REVISED LUMINAIRE LAYOUT IN AREAS WITH A LAYIN CEILING. 13. COORDINATE LOCATIONS OF NEW LUMINAIRES WITH EXISTING DUCT, PIPING, STRUCTURAL AND CEILING MOUNTED DEVICES.

# **ELECTRICAL GENERAL NOTES:**

LIGHTING SEQUENCE OF OPERATION MATRIX ON SHEET E400. 2. "NL" INDICATES LUMINAIRE IS UNSWITCHED FOR NIGHT LIGHT.

- 3. "SE" INDICATES LUMINAIRE IS SWITCHED/CONTROLLED DURING NORMAL OPERATION AND OPERATES FROM EMERGENCY CIRCUIT UPON LOSS OF POWER.
- 4. SHADED LUMINAIRE 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 RAISE/LOWER AND/OR SWITCHING ON/OFF FOR MULTIPLE SCENES AS INDICATED ON SHEETS AND THE LIGHTING SEQUENCE OF OPERATIONS {L##}. COORDINATE QUANTITIES OF BUTTONS FOR CONTROL STATIONS WITH LIGHTING CONTROL MANUFACTURER. REFER TO SHEET E600.
- 7. VACANCY/OCCUPANCY SENSOR LAYOUT: SENSORS ARE SHOWN ON THE PLANS FOR DESIGN INTENT AND MAY NOT REPRESENT EVERY DEVICE. PROVIDE MANUFACTURER SPECIFIC FLOOR PLAN LAYOUTS SHOWING LOCATION, ORIENTATION, AND COVERAGE AREA OF EACH CONTROL DEVICE, SENSOR, AND CONTROLLER/INTERFACE. AREAS REQUIRING MULTIPLE SENSOR DEVICES FOR APPROPRIATE COVERAGE, SUBMIT SPECIFIC

LUMINAIRE KEY:

- F1 = FIXTURE TAG 1 = CIRCUIT NUMBER LUMINAIRE
  - 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 HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: A / 1 ELECTRICAL MOUNTING SUBSCRIPT KEY MOUNT AT +6" TO CENTERLINE ABOVE COUNTER OR BACKSPLASH MOUNT AT CEILING MOUNT ORIENTED HORIZONTALLY
- MOUNT IN CASEWORK MOUNT IN MODULAR FURNITURE
- 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 ON THIS PAGE FOR ADDITIONAL INFORMATION.
- 2. CIRCUIT NUMBERS ARE SHOWN FOR CIRCUIT IDENTIFICATION. CIRCUITING SHALL AGREE WITH NUMBERING ON THE PANEL PROVIDED. COMMON NEUTRALS MAY NOT BE USED FOR
- PHASE 3. LIFE SAFETY, CRITICAL, EQUIPMENT BRANCH WIRING FOR FEEDERS AND BRANCH CIRCUITS SHALL BE ROUTED IN SEPARATE RACEWAY, JUNCTION BOXES, PULL BOXES, AND CABINETS. WIRING FOR EACH BRANCH SHALL BE INDEPENDENT FROM OTHER BRANCHES, INCLUDING
- THE NORMAL BRANCH. 4. FLUSH MOUNT ALL LIGHTING CONTROL DEVICES AT +42" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. DEVICES MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED. 5. FLUSH MOUNT ALL DUPLEX RECEPTACLES AND TECHNOLOGY OUTLETS AT +18" FROM
- FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. RECEPTACLES AND OUTLETS MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED. MOUNT EXTERIOR LOCATED RECEPTACLES WITH WHILE-IN-USE COVERS AT +20" FROM FINISHED GRADE (CENTER DIMENSIONS) TO MAINTAIN INSTALLATION ADA COMPLIANCE. 6. ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL
- BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIRESTOPS. 7. CONNECTION FOR ELECTRIC WATER COOLERS (EWC) SHALL BE A JUNCTION BOX CONCEALED BEHIND WATER COOLER ACCESS PLATE OR BE A GFI RECEPTACLE LOCATED
- DIRECTLY BELOW AND CENTERED ON EWC. CONTRACTOR SHALL VERIFY TYPE OF EWC TO BE INSTALLED. 8. MOUNT ALL FIRE ALARM PULL STATIONS AT +42" FROM FLOOR (CENTERLINE DIMENSION)
- EXCEPT WHERE OTHERWISE NOTED. 9. INSTALL ALL WALL MOUNTED FIRE ALARM 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. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL CEILING MOUNTED DEVICES AND EQUIPMENT WITH LUMINAIRES, SPRINKLER, AND CEILING DIFFUSERS. CENTER ALL DEVICES IN CEILING TILE PATTERN. SMOKE DETECTORS AND OCCUPANCY/VACANCY SENSORS SHALL BE LOCATED NO CLOSER THAN 3 FEET TO AN AIR SUPPLY DIFFUSER OR RETURN GRILLE.
- 11. CONTRACTOR SHALL VERIFY ALL FURNITURE. MODULAR FURNITURE. AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS, AND REVIEWED SHOP DRAWINGS. PRIOR TO MAKING THE ACTUAL ELECTRICAL INSTALLATION, THIS CONTRACTOR SHALL ADJUST RECEPTACLES, OUTLETS, OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT.
- 12. ELECTRICAL AND TECHNOLOGY EQUIPMENT SHALL BE MOUNTED TO AVOID IMPEDANCE OF, OPERATION OF, AND/OR ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF ELECTRICAL AND TELECOMMUNICATIONS EQUIPMENT, ON 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 AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS. 14. ALL WELDING SHALL BE ACCORDING TO AMERICAN WELDING SOCIETY STANDARDS.
- CONTRACTOR SHALL FURNISH TO THE ARCHITECT/ENGINEER CERTIFICATES QUALIFYING EACH WELDER. PRIOR TO START OF WORK. THE ARCHITECT/ENGINEER RESERVES THE RIGHT TO REQUIRE QUALIFYING DEMONSTRATION, AT THE CONTRACTOR'S EXPENSE, OF ANY WELDERS ASSIGNED TO THE JOB.
- 15. EACH CONTRACTOR IS RESPONSIBLE FOR 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.

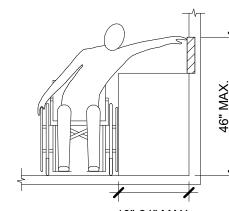
#### **ELECTRICAL ABBREVIATION KEY**

ADDR.	DESCRIPTION.
AFF	ABOVE FINISHED FLOOR
С	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	

ADA STANDARDS FOR ACCESSIBLE DESIGN



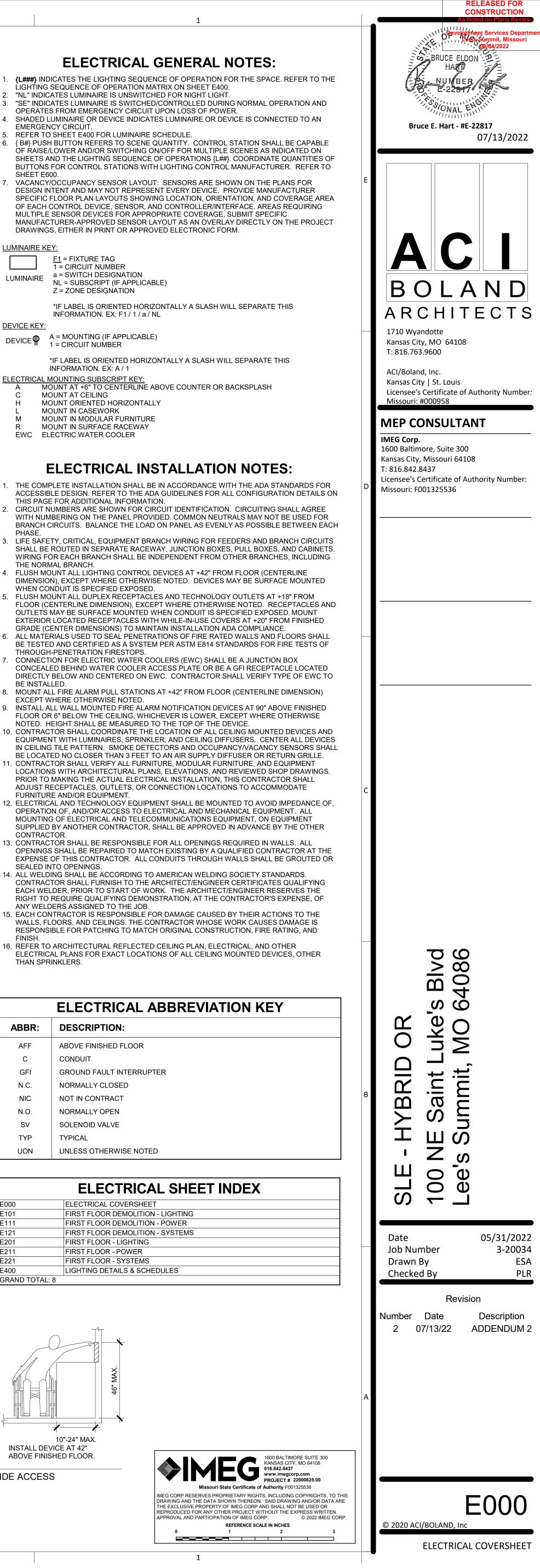
10"-24" MAX. INSTALL DEVICE AT 42" ABOVE FINISHED FLOOR.

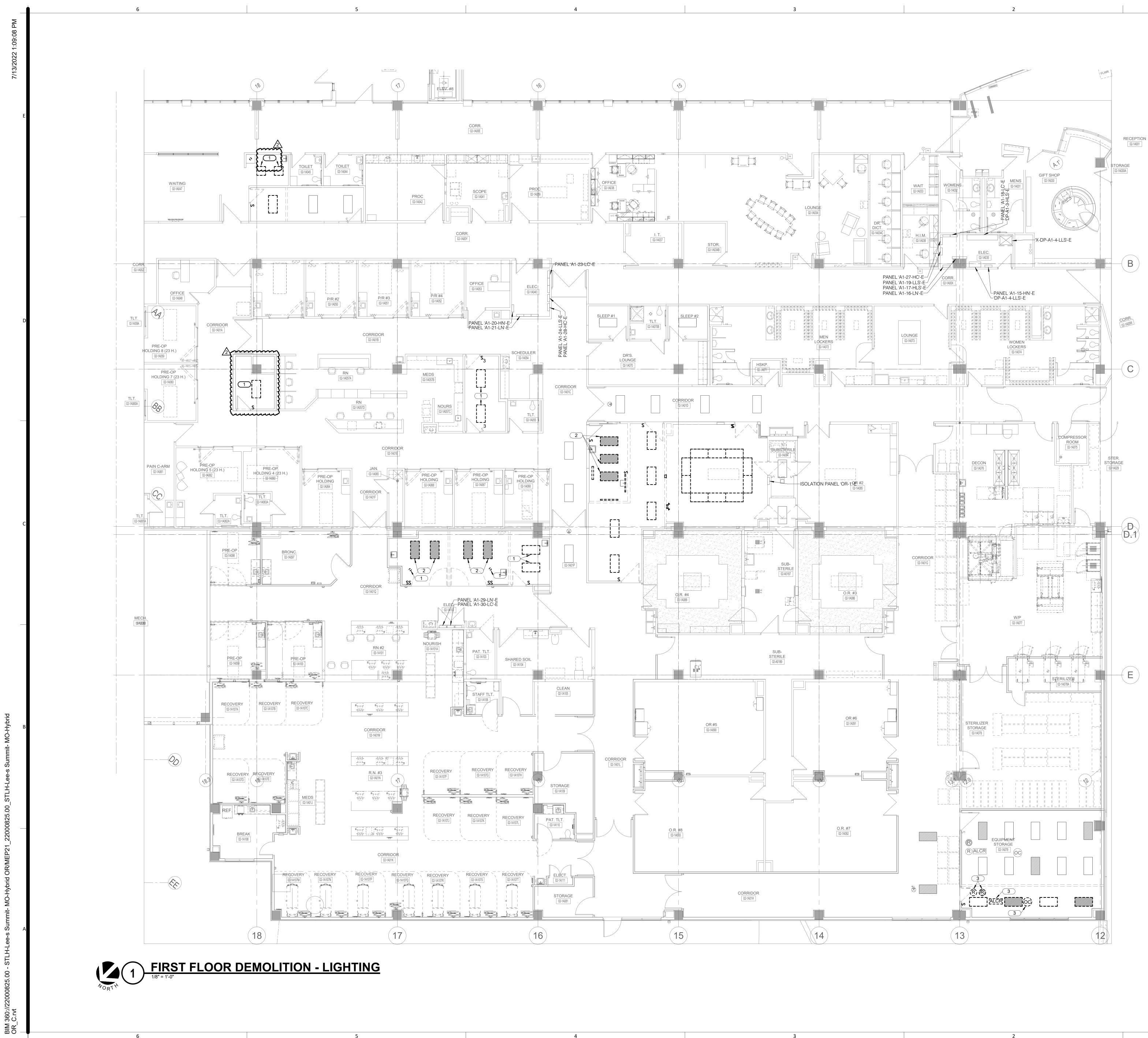
1 10" MAX.

ADA GUIDELINES - SIDE ACCESS

INSTALL DEVICE AT 44"

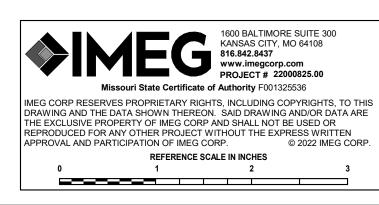
ABOVE FINISHED FLOOR

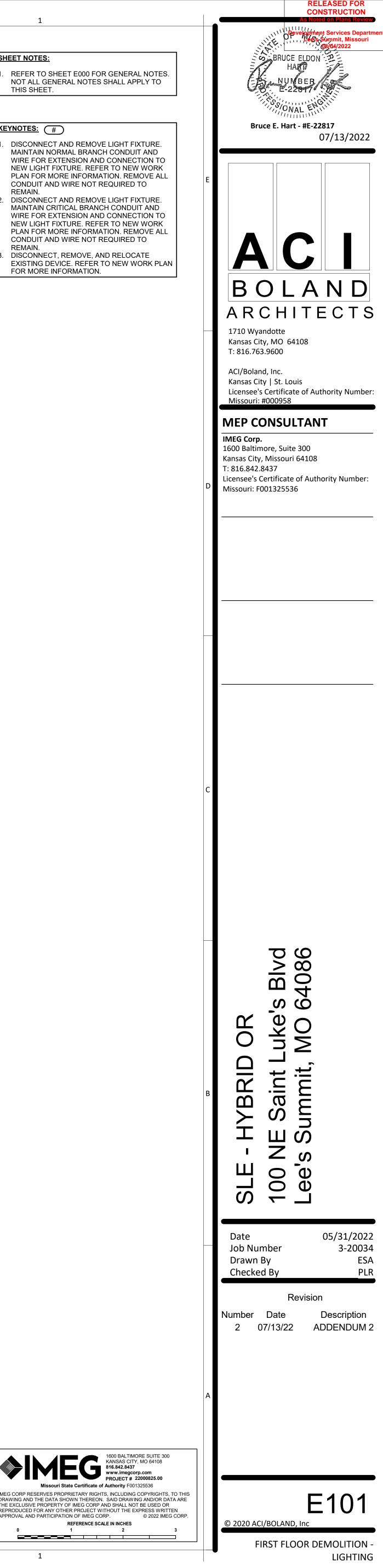




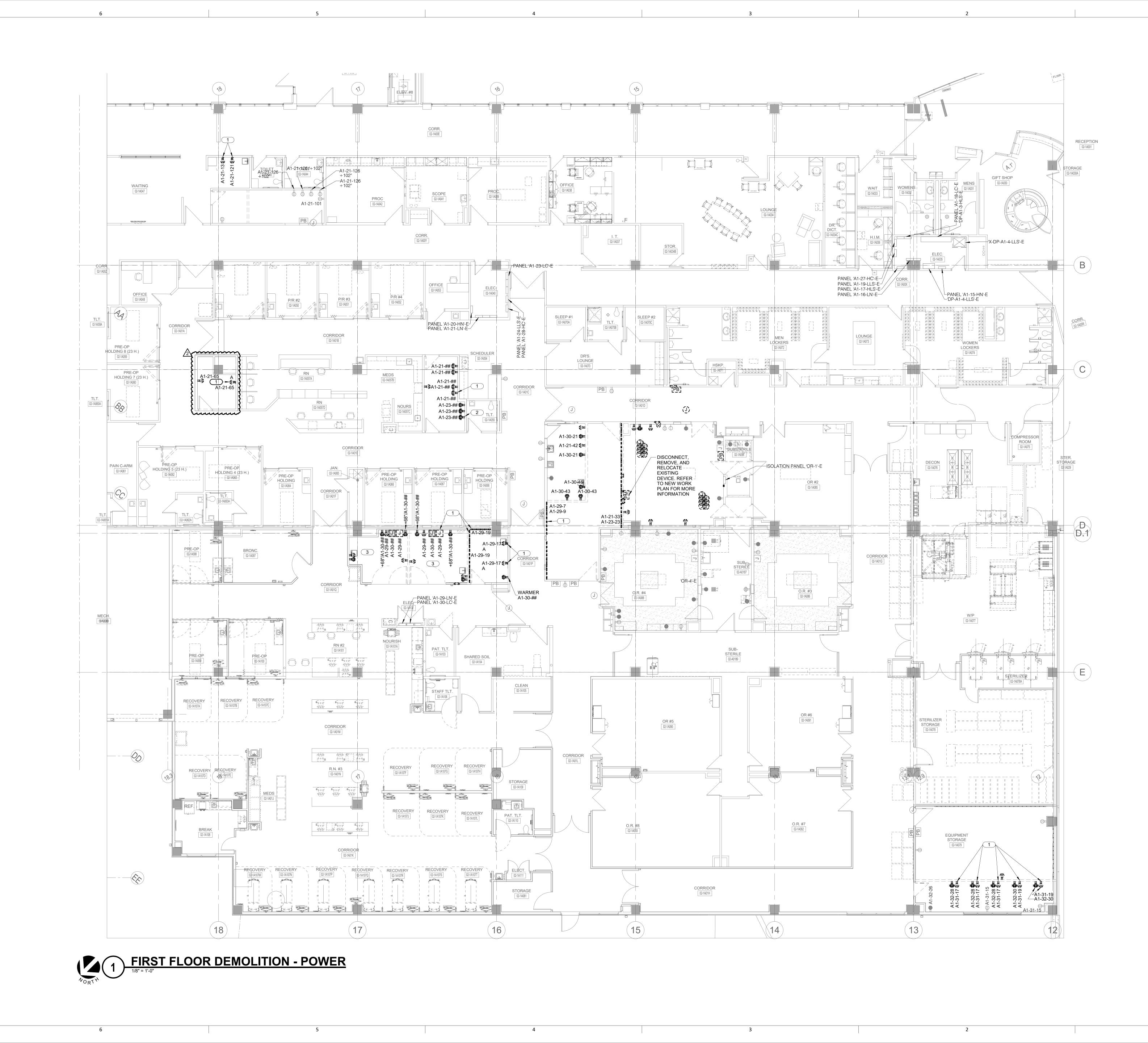
#### KEYNOTES: # DISCONNECT AND REMOVE LIGHT FIXTURE. MAINTAIN NORMAL BRANCH CONDUIT AND WIRE FOR EXTENSION AND CONNECTION TO NEW LIGHT FIXTURE. REFER TO NEW WORK PLAN FOR MORE INFORMATION. REMOVE ALL CONDUIT AND WIRE NOT REQUIRED TO REMAIN. DISCONNECT AND REMOVE LIGHT FIXTURE. MAINTAIN CRITICAL BRANCH 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. DISCONNECT, REMOVE, AND RELOCATE EXISTING DEVICE. REFER TO NEW WORK PLAN FOR MORE INFORMATION.

SHEET NOTES:







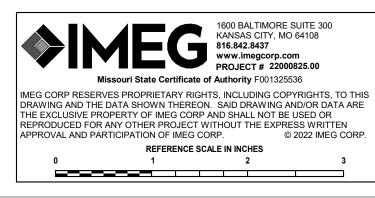


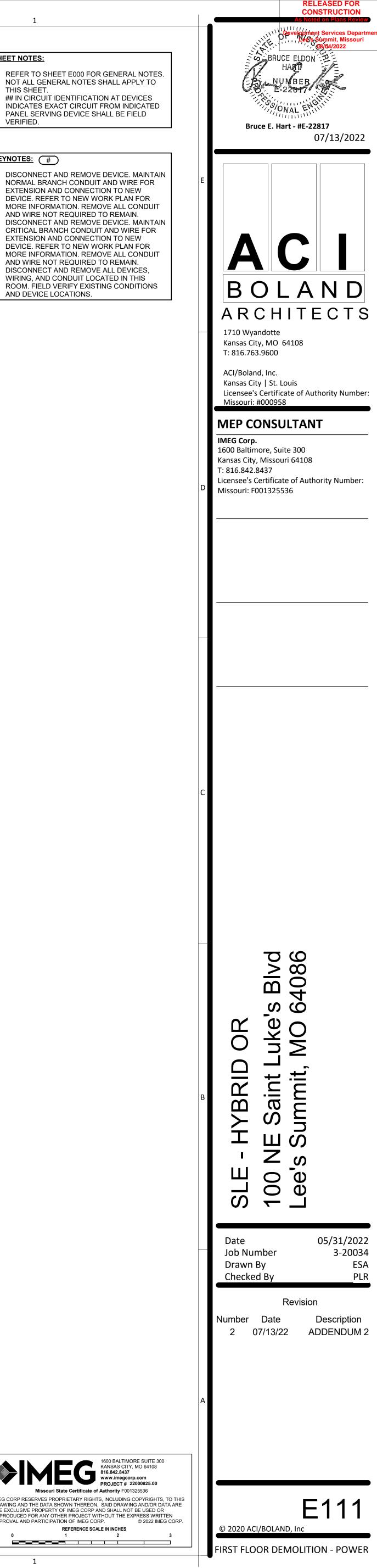
#### SHEET NOTES:

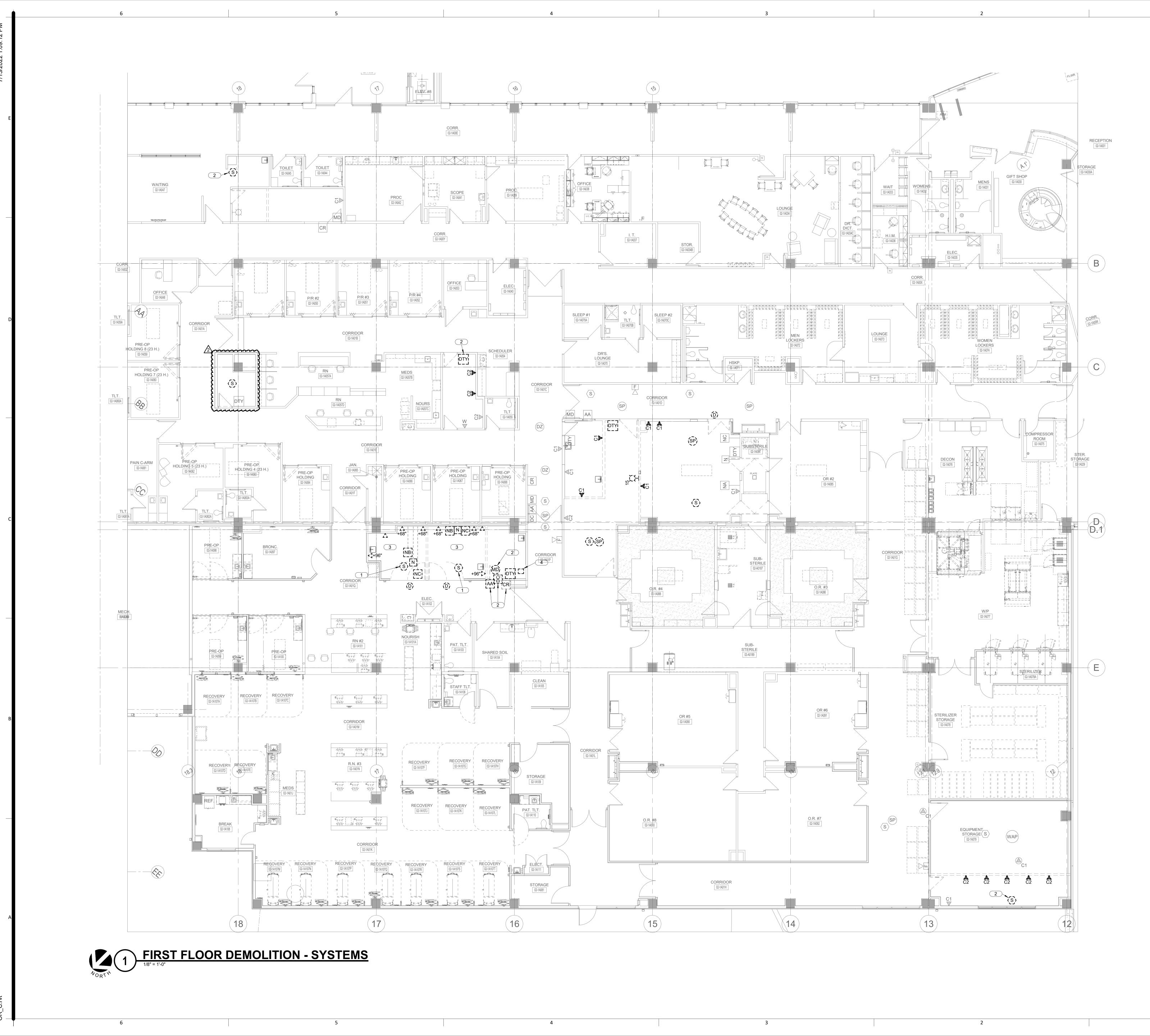
 REFER TO SHEET E000 FOR GENERAL NOTES. NOT ALL GENERAL NOTES SHALL APPLY TO THIS SHEET. 2. ## IN CIRCUIT IDENTIFICATION AT DEVICES INDICATES EXACT CIRCUIT FROM INDICATED PANEL SERVING DEVICE SHALL BE FIELD VERIFIED.

#### KEYNOTES: #

- NORMAL BRANCH CONDUIT AND WIRE FOR EXTENSION AND CONNECTION TO NEW DEVICE. REFER TO NEW WORK PLAN FOR MORE INFORMATION. REMOVE ALL CONDUIT AND WIRE NOT REQUIRED TO REMAIN. DISCONNECT AND REMOVE DEVICE. MAINTAIN CRITICAL BRANCH CONDUIT AND WIRE FOR
- EXTENSION AND CONNECTION TO NEW DEVICE. REFER TO NEW WORK PLAN FOR MORE INFORMATION. REMOVE ALL CONDUIT AND WIRE NOT REQUIRED TO REMAIN.
- DISCONNECT AND REMOVE ALL DEVICES, WIRING, AND CONDUIT LOCATED IN THIS ROOM. FIELD VERIFY EXISTING CONDITIONS AND DEVICE LOCATIONS.







BIN OR

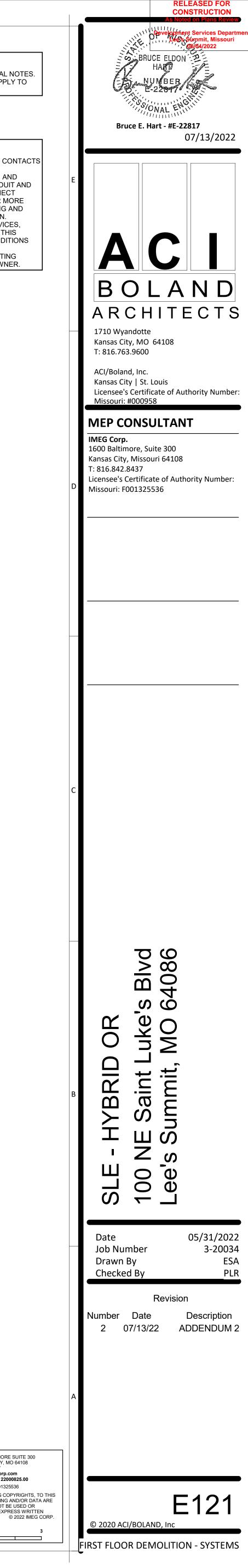
## SHEET NOTES:

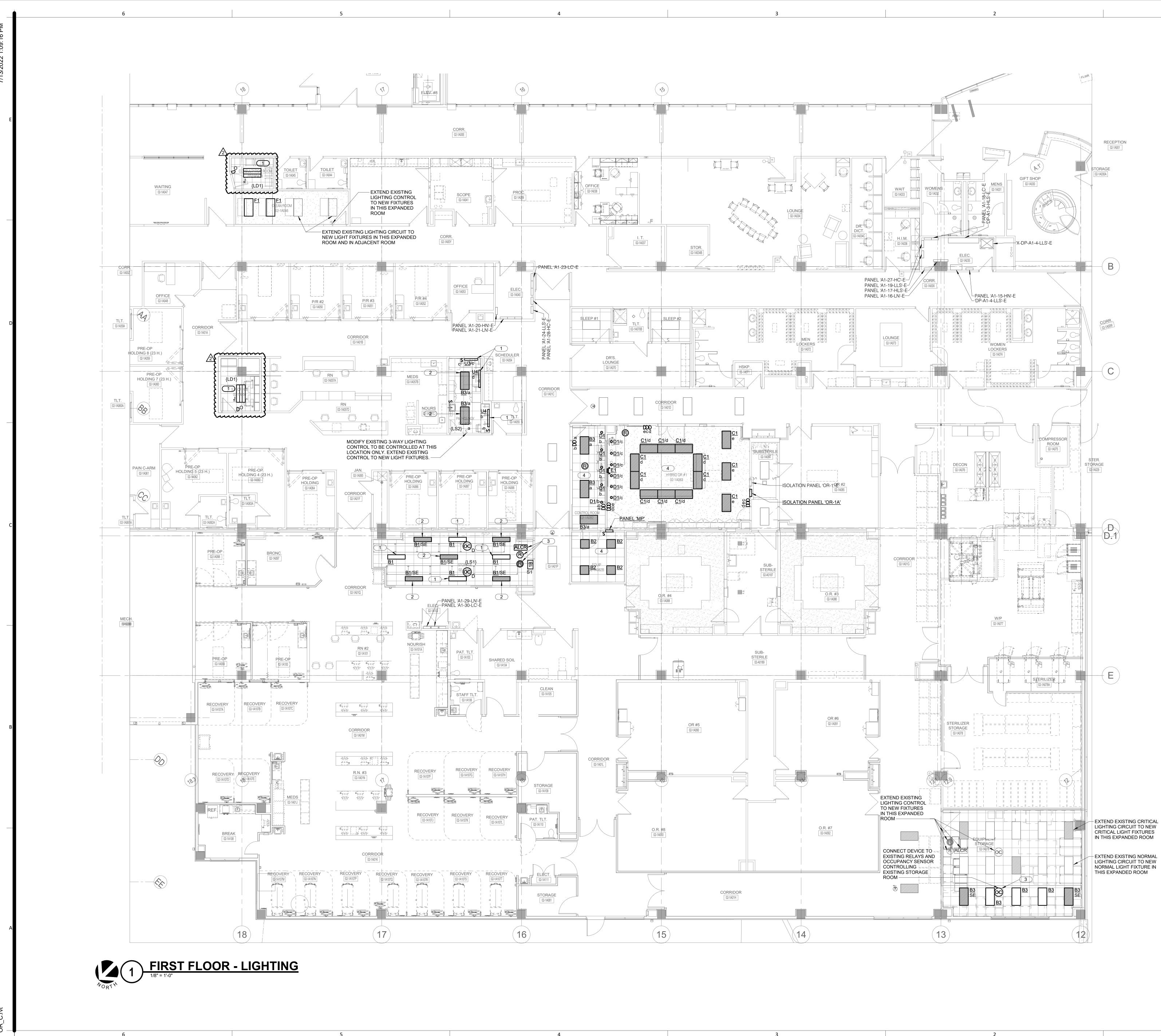
REFER TO SHEET E000 FOR GENERAL NOTES. NOT ALL GENERAL NOTES SHALL APPLY TO THIS SHEET.

#### KEYNOTES: #

- SMOKE DETECTOR WITH AUXILIARY CONTACTS FOR NURSE CALL INTERFACE.
   DISCONNECT, REMOVE, RELOCATE, AND
- RECONNECT DEVICE. EXTEND CONDUIT AND CABLING AS REQUIRED TO RECONNECT
- DEVICE. REFER TO NEW WORK FOR MORE INFORMATION. REMOVE ALL CABLING AND CONDUIT NOT REQUIRED TO REMAIN.
- CONDUIT NOT REQUIRED TO REMAIN.
   DISCONNECT AND REMOVE ALL DEVICES, WIRING, AND CONDUIT LOCATED IN THIS ROOM. FIELD VERIFY EXISTING CONDITIONS AND DEVICE LOCATIONS.
   COORDINATE RELOCATION OF EXISTING CEILING MOUNTED DEVICE WITH OWNER.





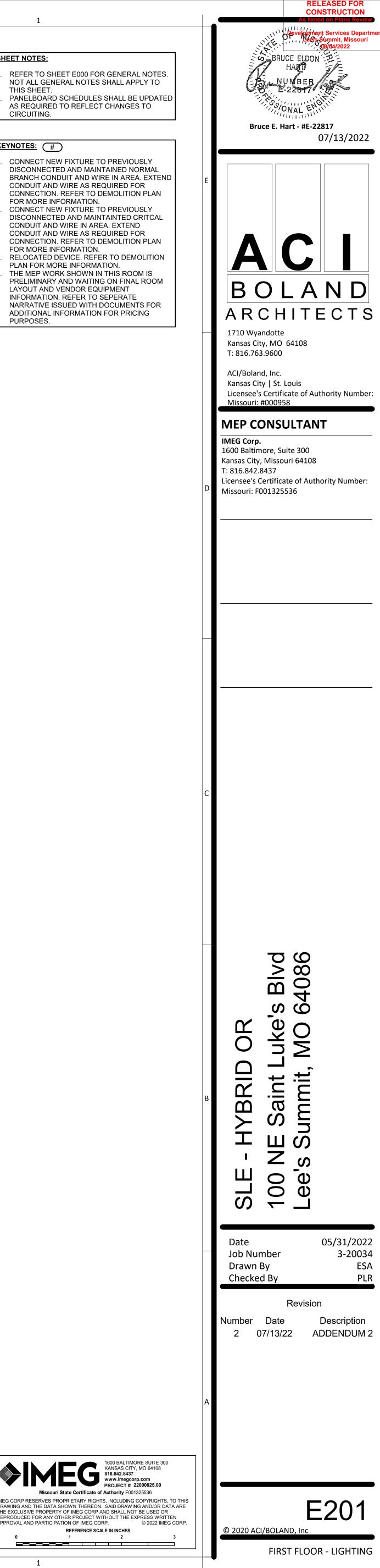


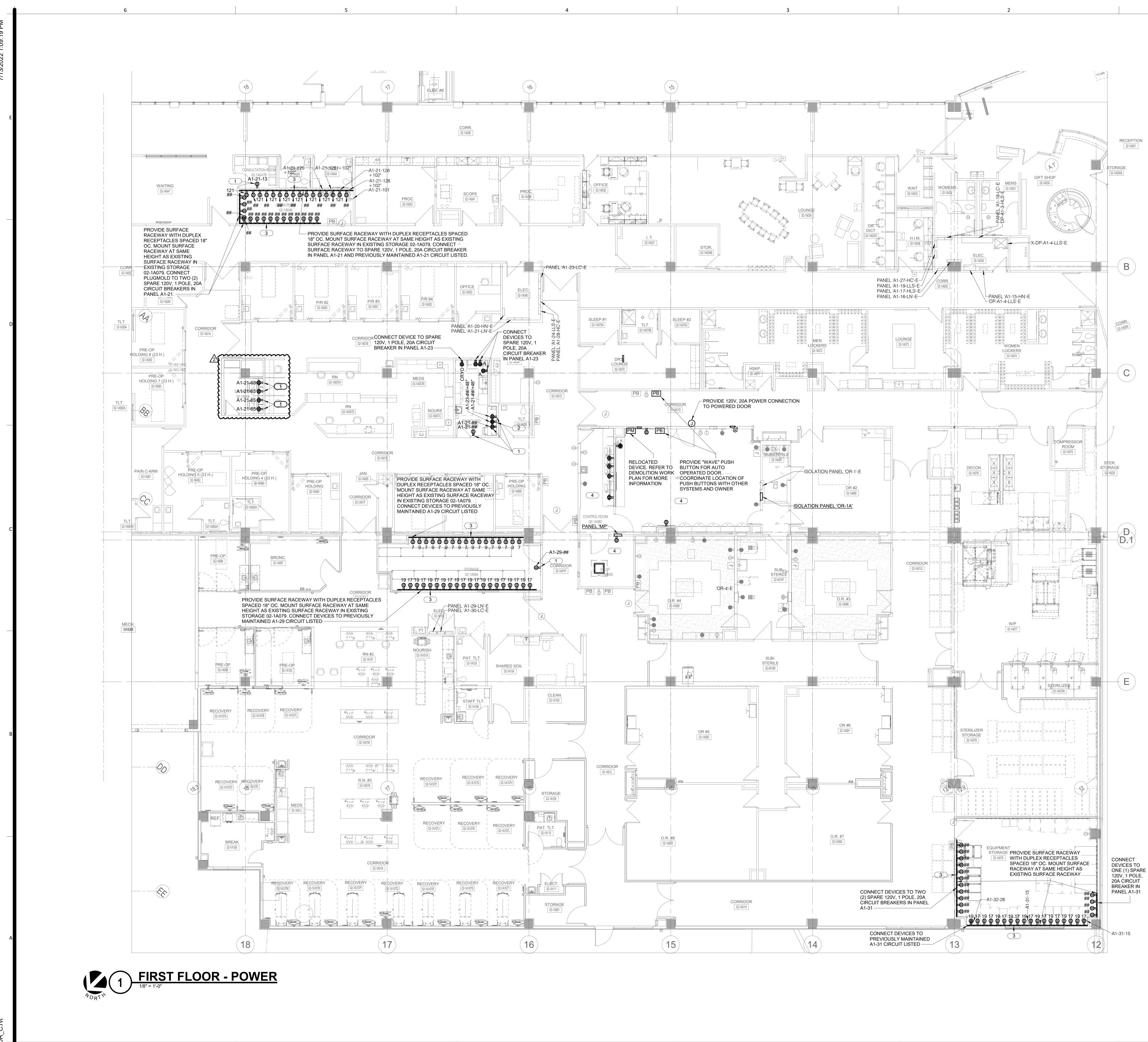
BIN OR

#### THIS SHEET. 2. PANELBOARD SCHEDULES SHALL BE UPDATED AS REQUIRED TO REFLECT CHANGES TO CIRCUITING. KEYNOTES: # 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. CONNECT NEW FIXTURE TO PREVIOUSLY DISCONNECTED AND MAINTAINTED CRITCAL CONDUIT AND WIRE IN AREA. EXTEND CONDUIT AND WIRE AS REQUIRED FOR CONNECTION. REFER TO DEMOLITION PLAN FOR MORE INFORMATION. RELOCATED DEVICE. REFER TO DEMOLITION PLAN FOR MORE INFORMATION. THE MEP WORK SHOWN IN THIS ROOM IS PRELIMINARY AND WAITING ON FINAL ROOM LAYOUT AND VENDOR EQUIPMENT INFORMATION. REFER TO SEPERATE NARRATIVE ISSUED WITH DOCUMENTS FOR ADDITIONAL INFORMATION FOR PRICING PURPOSES.

SHEET NOTES:

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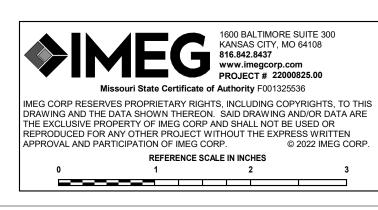


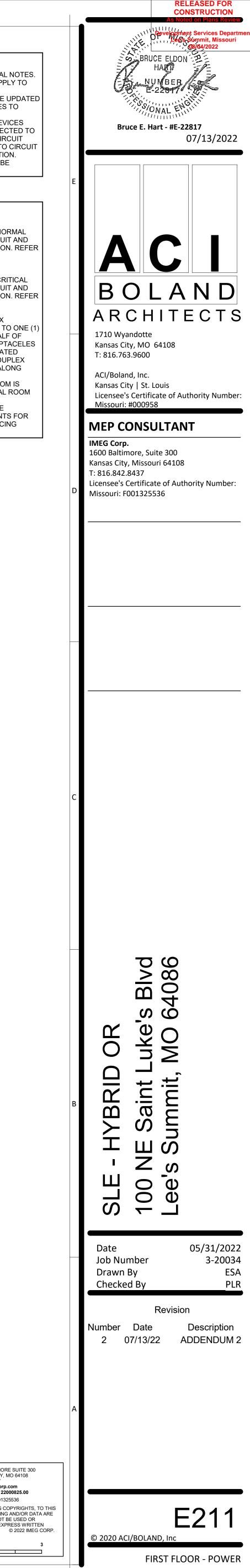


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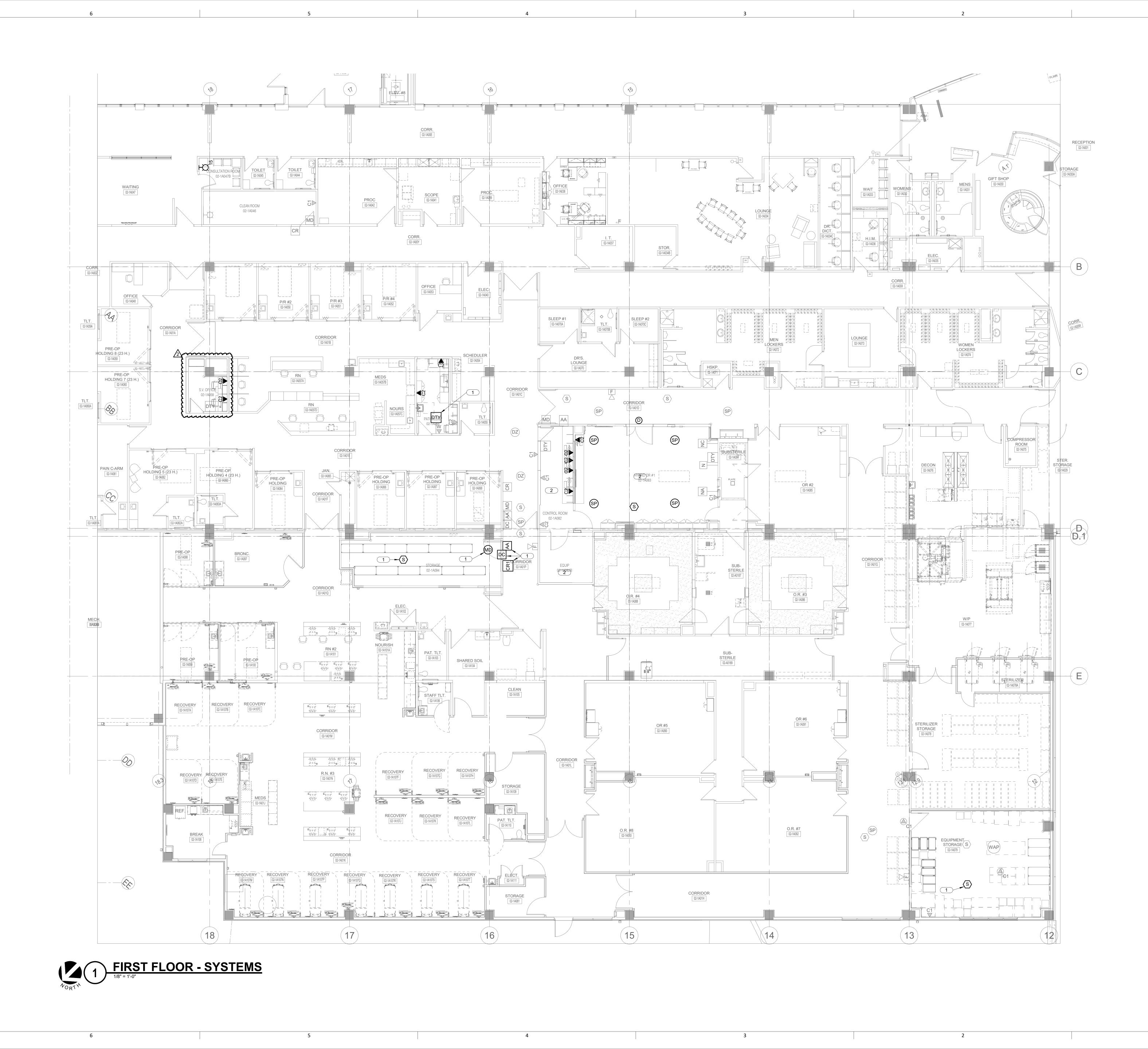
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SH	EET NOTES:
1.	REFER TO SHEET E000 FOR GENERAL NO NOT ALL GENERAL NOTES SHALL APPLY THIS SHEET.
2.	PANELBOARD SCHEDULES SHALL BE UP AS REQUIRED TO REFLECT CHANGES TO CIRCUITING.
3.	## IN CIRCUIT IDENTIFICATION AT DEVICE INDICATES DEVICE SHALL BE CONNECTE EXISTING SPARE 20A, 1P BRANCH CIRCU BREAKER IN INDICATED PANEL OR TO CI BREAKER MADE SPARE BY DEMOLITION. CIRCUIT NUMBERS UTILIZED SHALL BE
	INDICATED ON AS-BUILT MARK-UPS.
KE	YNOTES: #
1.	CONNECT DEVICE TO PREVIOUSLY DISCONNECTED AND MAINTAINED NORM CONDUIT AND WIRE. EXTEND CONDUIT A WIRE AS REQUIRED FOR CONNECTION. I TO DEMOLITION PLAN FOR MORE INFORMATION.
2.	CONNECT DEVICE TO PREVIOUSLY DISCONNECTED AND MAINTAINED CRITIC CONDUIT AND WIRE. EXTEND CONDUIT A WIRE AS REQUIRED FOR CONNECTION. I TO DEMOLITION PLAN FOR MORE INFORMATION.
3.	HALF OF SUFACE RACEWAY DUPLEX RECEPTACLES SHALL BE CONNECT TO C DEDICATED CIRCUIT AND OTHER HALF O SURFACE RACEWAY DUPLEX RECEPTAC SHALL BE TO ONE (1) OTHER DEDICATED CIRCUIT. CIRCUIT CONNECTED TO DUPLI RECEPTACLES SHALL ALTERNATE ALON SURFACE RACEWAY.
4.	THE MEP WORK SHOWN IN THIS ROOM IS PRELIMINARY AND WAITING ON FINAL RO LAYOUT AND VENDOR EQUIPMENT INFORMATION. REFER TO SEPERATE NARRATIVE ISSUED WITH DOCUMENTS F ADDITIONAL INFORMATION FOR PRICING PURPOSES.









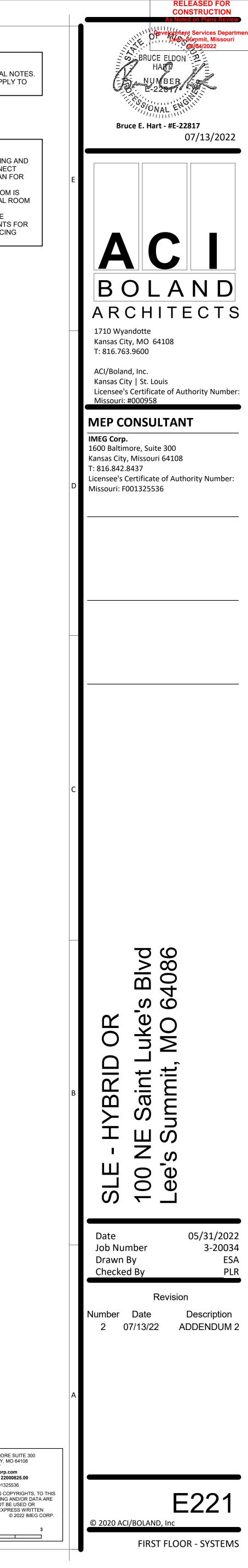
#### SHEET NOTES:

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

#### KEYNOTES: #

- I. RELOCATED DEVICE. EXTEND CABLING AND CONDUIT AS REQUIRED TO RECONNECT DEVICE. REFER TO DEMOLITION PLAN FOR 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 SEPERATE
- NARRATIVE ISSUED WITH DOCUMENTS FOR ADDITIONAL INFORMATION FOR PRICING PURPOSES.





	D LUMINAIRE SCHEDUL					DE AM	WIDTH				(  /  )   [	ENS/LOUVER:		K19
DESC		IES TYPE :	2 DISTR		J			IARROW	/ SPOT			" ACRYLIC		M -
		IES TYPE				SP - S			0101			FLE/LOUVER		N -
	RA - REGRESSED ALUMINUM IV - ANS	IES TYPE	4 DISTF	RIBUTIO	N	MD - N	/EDIUM	l				AR ALZAK		P -
	RS - REGRESSED STEEL V - ANSI	IES TYPE	5 DISTR	IBUTIO	N	WD-V	VIDE				F - FRC	STED ACRYLIC		R -
	FINISH:						VERY					IPERED GLASS		SS
	PAF - PAINT AFTER FABRICATION CFSA - COLOR-FINISH SELECTION BY ARCHI	TECT				WW - Y	WALL V	VASH			K - KSF	112 .125" ACRYLIC	,	0 - [DE
(MTG)	MOUNTING: RE - REC										(WATT)	PER: FIX	( - FIXTURE, F	•
(		PENDED									(TYPE)		,	RGI
	CV - COVE SU - SUF	RFACE									LED - L	IGHT EMITTING D	IODE	RGI
		DER CABIN	IET									TUBULAR LED LA	MP	RG
	P - PERIMETER WL - WA PL - POLE O - OTHE											ORGANIC LED DYNAMIC TUNAB		RLE WLI
	PL-POLE 0-01H	R (SEE DI	ESCRIP	HON)							O - OTH		LE LED	VVL
(TYPE)	) DRIVER:													
		CTRONIC						•	⊳/50%) S⊺					MV
					Ξ									REN
САТАІ	DMX - DIGITAL MULTIPLEX EM - EM OG NUMBER SHALL NOT BE CONSIDERED CO	ERGENCY			SHALL N									0 - MPLETE
INTER	IOR CORRELATED COLOR TEMPERATURE 350	OK, COLOF	RENDE	ERING I	NDEX (C	RI) AT O	R ABO∖	/E 80, UN	VLESS N	OTED O	THERW	ISE.		
					DIMEN	ISIONS			ATT		<b>L</b>	ED	DRIVE	R
ITEM	DESCRIPTION		МТС					ANSI WATT		TYPE		DELIVERED		
<b>ITEM</b> B1	DESCRIPTION DIRECT TROFFER WITH PRISMATIC LENS.	L/L O	MTG RE	L 4'-0"	<b>DIMEN</b> <b>W</b> 1'-0"	H 4 3/8"	DIA.	ANSI		TYPE LED	L QTY 1		<b>DRIVE</b> <b>VOLTS</b> 120 V	ER TYPE 0-10V
B1	DIRECT TROFFER WITH PRISMATIC LENS. SPRING LOADED CAM ACTION LATCHES. ALI FIXTURE STEEL POST PAINTED BAKED WHIT ENAMEL.	0			<b>W</b> 1'-0"	н	DIA.	ANSI WATT S	PER FIX		QTY	DELIVERED LUMENS (MIN)	VOLTS	TYPE
	DIRECT TROFFER WITH PRISMATIC LENS. SPRING LOADED CAM ACTION LATCHES. ALI FIXTURE STEEL POST PAINTED BAKED WHIT	0 E 0			w	н	DIA.	ANSI WATT S	PER		QTY	DELIVERED LUMENS (MIN)	VOLTS	TYPE
B1	DIRECT TROFFER WITH PRISMATIC LENS. SPRING LOADED CAM ACTION LATCHES. ALI FIXTURE STEEL POST PAINTED BAKED WHIT ENAMEL. DIRECT TROFFER WITH PRISMATIC LENS. SPRING LOADED CAM ACTION LATCHES. ALI FIXTURE STEEL POST PAINTED BAKED WHIT ENAMEL. DIRECT TROFFER WITH PRISMATIC LENS.	0 E 0 E 0	RE	4'-0"	<b>W</b> 1'-0"	H 4 3/8"	DIA.	ANSI WATT S 20 W	PER FIX	LED	<b>QTY</b> 1	DELIVERED LUMENS (MIN) 2,700 LUMENS	<b>VOLTS</b> 120 V	0-10V 0-10V 0-10V MV
B1 B2 B3	DIRECT TROFFER WITH PRISMATIC LENS. SPRING LOADED CAM ACTION LATCHES. ALI FIXTURE STEEL POST PAINTED BAKED WHIT ENAMEL. DIRECT TROFFER WITH PRISMATIC LENS. SPRING LOADED CAM ACTION LATCHES. ALI FIXTURE STEEL POST PAINTED BAKED WHIT ENAMEL. DIRECT TROFFER WITH PRISMATIC LENS. SPRING LOADED CAM ACTION LATCHES. ALI FIXTURE STEEL POST PAINTED BAKED WHIT ENAMEL.		RE	4'-0" 2'-0" 4'-0"	w           1'-0"           2'-0"           2'-0"	H 4 3/8" 4 3/8" 4 3/8"	DIA.	ANSI WATT S 20 W 21 W 25 W	PER FIX FIX FIX	LED	<b>QTY</b> 1 1 1 1	DELIVERED LUMENS (MIN) 2,700 LUMENS 2,600 LUMENS 3,300 LUMENS	VOLTS 120 V 120 V 120 V	0-10V
B1 B2	DIRECT TROFFER WITH PRISMATIC LENS. SPRING LOADED CAM ACTION LATCHES. ALL FIXTURE STEEL POST PAINTED BAKED WHIT ENAMEL. DIRECT TROFFER WITH PRISMATIC LENS. SPRING LOADED CAM ACTION LATCHES. ALL FIXTURE STEEL POST PAINTED BAKED WHIT ENAMEL. DIRECT TROFFER WITH PRISMATIC LENS. SPRING LOADED CAM ACTION LATCHES. ALL FIXTURE STEEL POST PAINTED BAKED WHIT ENAMEL. DIRECT SURGICAL TROFFER WITH SYMMETRIC ACRYLIC SHIELDING AND TRIPL GASKETING. SPRING LOADED CAM ACTION		RE	4'-0" 2'-0"	<b>w</b> 1'-0" 2'-0"	H 4 3/8" 4 3/8"	DIA.	ANSI WATT S 20 W 21 W	PER FIX FIX FIX	LED	<b>QTY</b> 1 1	DELIVERED LUMENS (MIN) 2,700 LUMENS 2,600 LUMENS	<b>VOLTS</b> 120 V 120 V	0-10V 0-10V 0-10V MV
B1 B2 B3 C1	DIRECT TROFFER WITH PRISMATIC LENS. SPRING LOADED CAM ACTION LATCHES. ALL FIXTURE STEEL POST PAINTED BAKED WHIT ENAMEL. DIRECT TROFFER WITH PRISMATIC LENS. SPRING LOADED CAM ACTION LATCHES. ALL FIXTURE STEEL POST PAINTED BAKED WHIT ENAMEL. DIRECT TROFFER WITH PRISMATIC LENS. SPRING LOADED CAM ACTION LATCHES. ALL FIXTURE STEEL POST PAINTED BAKED WHIT ENAMEL. DIRECT SURGICAL TROFFER WITH SYMMETRIC ACRYLIC SHIELDING AND TRIPL GASKETING. SPRING LOADED CAM ACTION LATCHES. WHITE ANTI-MICROBIAL FINISH. PROVIDE CUSTOM LUMEN PACKAGE.		RE	4'-0" 2'-0" 4'-0"	w           1'-0"           2'-0"           2'-0"	H 4 3/8" 4 3/8" 4 3/8" 4 9/16"		ANSI WATT S           20 W           21 W           25 W           114 W	PER FIX FIX FIX FIX	LED	QTY 1 1 1 1 1 1 1	DELIVERED LUMENS (MIN) 2,700 LUMENS 2,600 LUMENS 3,300 LUMENS 14,700 LUMENS	VOLTS 120 V 120 V 120 V 120 V	0-10V 0-10V MV 0-10V MV 0-10V MV
B1 B2 B3 C1 D1	DIRECT TROFFER WITH PRISMATIC LENS. SPRING LOADED CAM ACTION LATCHES. ALI FIXTURE STEEL POST PAINTED BAKED WHIT ENAMEL. DIRECT TROFFER WITH PRISMATIC LENS. SPRING LOADED CAM ACTION LATCHES. ALI FIXTURE STEEL POST PAINTED BAKED WHIT ENAMEL. DIRECT TROFFER WITH PRISMATIC LENS. SPRING LOADED CAM ACTION LATCHES. ALI FIXTURE STEEL POST PAINTED BAKED WHIT ENAMEL. DIRECT SURGICAL TROFFER WITH SYMMETRIC ACRYLIC SHIELDING AND TRIPL GASKETING. SPRING LOADED CAM ACTION LATCHES. WHITE ANTI-MICROBIAL FINISH. PROVIDE CUSTOM LUMEN PACKAGE. 6" APERATURE DOWNLIGHT WITH MEDIUM DISTRIBUTION. SATIN-GLOW ANODIZE REFLECTOR WITH TOP DIFFUSE LENS.		RE RE RE RE	4'-0" 2'-0" 4'-0"	w           1'-0"           2'-0"           2'-0"	H 4 3/8" 4 3/8" 4 3/8" 4 9/16" 6 5/8"	DIA.	ANSI WATT S           20 W           21 W           25 W           114 W           9 W	PER FIX FIX FIX FIX	LED LED LED LED	<b>QTY</b> 1 1 1 1 1 1 1 1 1	DELIVERED LUMENS (MIN) 2,700 LUMENS 2,600 LUMENS 3,300 LUMENS 14,700 LUMENS 1,000 LUMENS	VOLTS 120 V 120 V 120 V 120 V 120 V	TYPE           0-10V           0-10V           0-10V           0-10V           0-10V           MV           0-10V           MV
B1 B2 B3 C1	DIRECT TROFFER WITH PRISMATIC LENS. SPRING LOADED CAM ACTION LATCHES. ALI FIXTURE STEEL POST PAINTED BAKED WHIT ENAMEL. DIRECT TROFFER WITH PRISMATIC LENS. SPRING LOADED CAM ACTION LATCHES. ALI FIXTURE STEEL POST PAINTED BAKED WHIT ENAMEL. DIRECT TROFFER WITH PRISMATIC LENS. SPRING LOADED CAM ACTION LATCHES. ALI FIXTURE STEEL POST PAINTED BAKED WHIT ENAMEL. DIRECT SURGICAL TROFFER WITH SYMMETRIC ACRYLIC SHIELDING AND TRIPL GASKETING. SPRING LOADED CAM ACTION LATCHES. WHITE ANTI-MICROBIAL FINISH. PROVIDE CUSTOM LUMEN PACKAGE. 6" APERATURE DOWNLIGHT WITH MEDIUM DISTRIBUTION. SATIN-GLOW ANODIZE		RE	4'-0" 2'-0" 4'-0"	w           1'-0"           2'-0"           2'-0"	H 4 3/8" 4 3/8" 4 3/8" 4 9/16"		ANSI WATT S           20 W           21 W           25 W           114 W	PER FIX FIX FIX FIX	LED	QTY 1 1 1 1 1 1 1	DELIVERED LUMENS (MIN) 2,700 LUMENS 2,600 LUMENS 3,300 LUMENS 14,700 LUMENS	VOLTS 120 V 120 V 120 V 120 V	0-10V 0-10V MV 0-10V MV 0-10V MV 0-10V MV
B1 B2 B3 C1 D1	DIRECT TROFFER WITH PRISMATIC LENS. SPRING LOADED CAM ACTION LATCHES. ALI FIXTURE STEEL POST PAINTED BAKED WHIT ENAMEL. DIRECT TROFFER WITH PRISMATIC LENS. SPRING LOADED CAM ACTION LATCHES. ALI FIXTURE STEEL POST PAINTED BAKED WHIT ENAMEL. DIRECT TROFFER WITH PRISMATIC LENS. SPRING LOADED CAM ACTION LATCHES. ALI FIXTURE STEEL POST PAINTED BAKED WHIT ENAMEL. DIRECT SURGICAL TROFFER WITH SYMMETRIC ACRYLIC SHIELDING AND TRIPL GASKETING. SPRING LOADED CAM ACTION LATCHES. WHITE ANTI-MICROBIAL FINISH. PROVIDE CUSTOM LUMEN PACKAGE. 6" APERATURE DOWNLIGHT WITH MEDIUM DISTRIBUTION. SATIN-GLOW ANODIZE REFLECTOR WITH TOP DIFFUSE LENS. EMERGENCY UNIT, TWO ADJUSTABLE HEADS, WHITE THERMOPLASTIC HOUSING. SELF TEST & DIAGNOSTICS OF INVERTER AND LAMPS. DIRECT TROFFER WITH SOLID SIDES AND PRISMATIC LENS. SPRING LOADED CAM ACTION LATCHES. ALL FIXTURE STEEL POS PAINTED BAKED WHITE ENAMEL. PROVIDE		RE RE RE RE	4'-0" 2'-0" 4'-0"	w           1'-0"           2'-0"           2'-0"	H 4 3/8" 4 3/8" 4 3/8" 4 9/16" 6 5/8"		ANSI WATT S           20 W           21 W           25 W           114 W           9 W	PER FIX FIX FIX FIX	LED LED LED LED	<b>QTY</b> 1 1 1 1 1 1 1 1 1	DELIVERED LUMENS (MIN) 2,700 LUMENS 2,600 LUMENS 3,300 LUMENS 14,700 LUMENS 1,000 LUMENS	VOLTS 120 V 120 V 120 V 120 V 120 V	TYPE           0-10V           0-10V           0-10V           0-10V           0-10V           0-10V           MV           0-10V           MV
B1 B2 B3 C1 D1 E1 F1	DIRECT TROFFER WITH PRISMATIC LENS. SPRING LOADED CAM ACTION LATCHES. ALL FIXTURE STEEL POST PAINTED BAKED WHIT ENAMEL.DIRECT TROFFER WITH PRISMATIC LENS. SPRING LOADED CAM ACTION LATCHES. ALL FIXTURE STEEL POST PAINTED BAKED WHIT ENAMEL.DIRECT TROFFER WITH PRISMATIC LENS. SPRING LOADED CAM ACTION LATCHES. ALL FIXTURE STEEL POST PAINTED BAKED WHIT ENAMEL.DIRECT SURGICAL TROFFER WITH SYMMETRIC ACRYLIC SHIELDING AND TRIPL GASKETING. SPRING LOADED CAM ACTION LATCHES. WHITE ANTI-MICROBIAL FINISH. PROVIDE CUSTOM LUMEN PACKAGE.6" APERATURE DOWNLIGHT WITH MEDIUM DISTRIBUTION. SATIN-GLOW ANODIZE REFLECTOR WITH TOP DIFFUSE LENS.EMERGENCY UNIT, TWO ADJUSTABLE HEADS, WHITE THERMOPLASTIC HOUSING. SELF TEST & DIAGNOSTICS OF INVERTER AND LAMPS.DIRECT TROFFER WITH SOLID SIDES AND PRISMATIC LENS. SPRING LOADED CAM ACTION LATCHES. ALL FIXTURE STEEL POST PAINTED BAKED WHITE ENAMEL. PROVIDE GUSTOM-LUMEN PACKAGE-RECESSED INDIRECT/DIRECT, PERFORATED METAL LAMP SHIELD WITH ACRYLIC DIFFUSER.		RE RE RE RE WL SU RE	4'-0" 2'-0" 4'-0" 4'-0" 4'-0" 4'-0"	w           1'-0"           2'-0"           2'-0"           3 3/4"           2'-0"	H         4 3/8"         4 3/8"         4 3/8"         4 3/8"         4 3/8"         4 9/16"         6 5/8"         4 9/16"         3 13/16"         5 1/2"	6"	ANSI WATT S           20 W           21 W           25 W           114 W           9 W           2 W           2 W           49 W	PER         FIX         FIX	LED LED LED LED LED	QTY 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DELIVERED           LUMENS (MIN)           2,700 LUMENS           2,600 LUMENS           3,300 LUMENS           14,700           LUMENS           1,000 LUMENS           LED           3,300 LUMENS           5,800 LUMENS	VOLTS         120 V         120 V	TYPE           0-10V           0-10V           0-10V           0-10V           0-10V           0-10V           MV           0-10V           MV
B1 B2 B3 C1 D1 E1 F1	DIRECT TROFFER WITH PRISMATIC LENS. SPRING LOADED CAM ACTION LATCHES. ALI FIXTURE STEEL POST PAINTED BAKED WHIT ENAMEL. DIRECT TROFFER WITH PRISMATIC LENS. SPRING LOADED CAM ACTION LATCHES. ALI FIXTURE STEEL POST PAINTED BAKED WHIT ENAMEL. DIRECT TROFFER WITH PRISMATIC LENS. SPRING LOADED CAM ACTION LATCHES. ALI FIXTURE STEEL POST PAINTED BAKED WHIT ENAMEL. DIRECT SURGICAL TROFFER WITH SYMMETRIC ACRYLIC SHIELDING AND TRIPL GASKETING. SPRING LOADED CAM ACTION LATCHES. WHITE ANTI-MICROBIAL FINISH. PROVIDE CUSTOM LUMEN PACKAGE. 6" APERATURE DOWNLIGHT WITH MEDIUM DISTRIBUTION. SATIN-GLOW ANODIZE REFLECTOR WITH TOP DIFFUSE LENS. EMERGENCY UNIT, TWO ADJUSTABLE HEADS, WHITE THERMOPLASTIC HOUSING. SELF TEST & DIAGNOSTICS OF INVERTER AND LAMPS. DIRECT TROFFER WITH SOLID SIDES AND PRISMATIC LENS. SPRING LOADED CAM ACTION LATCHES. ALL FIXTURE STEEL POS PAINTED BAKED WHITE ENAMEL. PROVIDE <b>GUSTOM-DIRECT/DIRECT, PERFORATED</b> METAL LAMP SHIELD WITH ACRYLIC		RE RE RE RE WL SU RE	4'-0" 2'-0" 4'-0" 4'-0" 4'-0" 4'-0"	w           1'-0"           2'-0"           2'-0"           3 3/4"           2'-0"	H         4 3/8"         4 3/8"         4 3/8"         4 3/8"         4 3/8"         4 9/16"         6 5/8"         4 9/16"         3 13/16"         5 1/2"	6"	ANSI WATT S           20 W           21 W           25 W           114 W           9 W           2 W           2 W           49 W	PER         FIX         FIX	LED LED LED LED LED	QTY 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DELIVERED           LUMENS (MIN)           2,700 LUMENS           2,600 LUMENS           3,300 LUMENS           14,700           LUMENS           1,000 LUMENS           LED           3,300 LUMENS	VOLTS         120 V         120 V	TYPE           0-10V           0-10V           0-10V           0-10V           0-10V           0-10V           MV           0-10V           MV

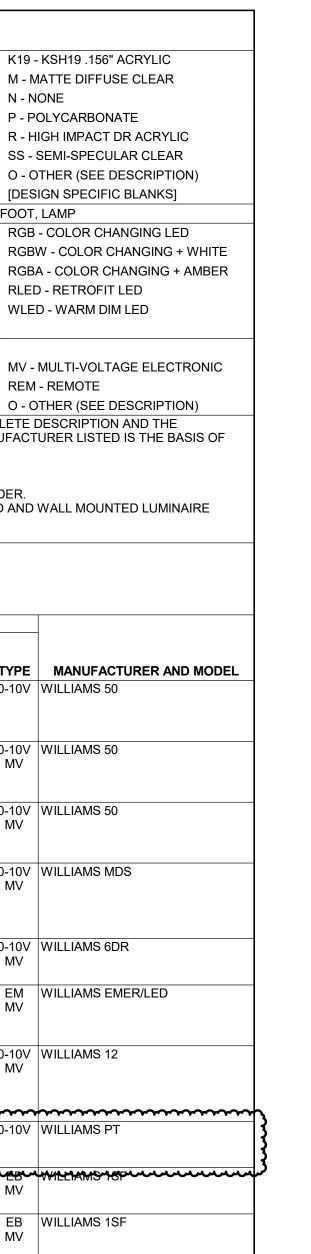
#### LIGHTING SEQUENCE OF OPERATION

1. {L##} DENOTES THE LIGHTING SEQUENCE OF OPERATIONS FOR THIS SPACE. 2. [#B] PUSH BUTTON REFERS TO SCENE QUANTITY. CONTROL STATION SHALL BE CAPABLE OF [RAISE/LOWER AND] SWITCHING ON/OFF FOR MULTIPLE SCENES AS INDICATED ON SHEETS AND THE LIGHTING SEQUENCE OF OPERATIONS {L##}. COORDINATE QUANTITIES OF BUTTONS FOR CONTROL STATIONS WITH LIGHTING CONTROL MANUFACTURER. 3. [Z#] DENOTES LIGHTING CONTROL ZONE. PROVIDE SEPARATE CONTROL OF EACH CONTROLLED ZONE. LUMINAIRES ASSOCIATED WITH THE SAME ZONE SHALL OPERATE TOGETHER WITHIN THE SAME PROGRAMMED SCENE. 4. a = SWITCH DESIGNATION FOR LIGHTING CONTROL

5. VERIFY AND COORDINATE ALL TIME CLOCK SETTINGS WITH OWNER PRIOR TO FINAL PROGRAMMING. 6. VERIFY AND COORDINATE ALL PUSH BUTTON WALL DEVICES AND QUANTITIES OF INDIVIDUAL BUTTONS WITH SCENES AND ZONES PER LOCATION. 7. VERIFY AND COORDINATE ALL PUSH BUTTON QUANTITIES AND SCENE NAMES WITH OWNER PRIOR TO SUBMITTING ENGRAVING TEMPLATE TO MANUFACTURER.

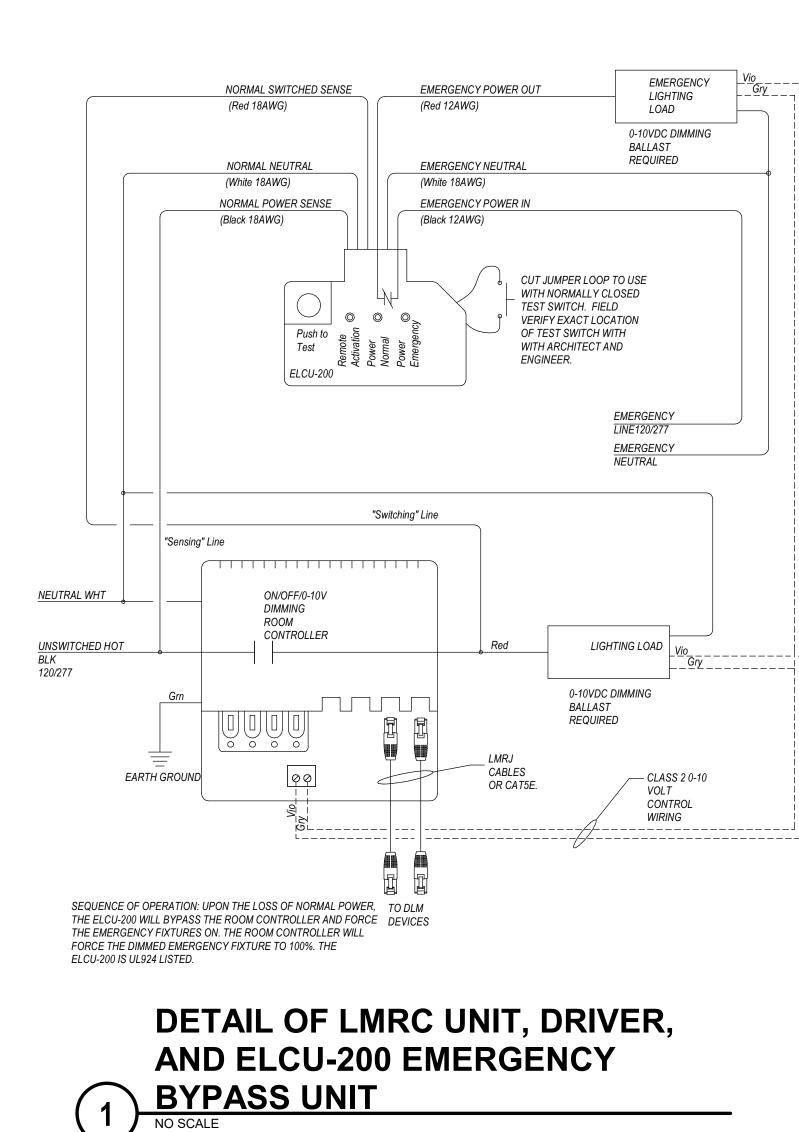
PLANIA	᠇ᡣᠬᠬᠬᠬᠬᠬᠬᠬᠬᠬᠬᠬᠬᠬ᠇᠇᠇ᠰ᠖ᡰ᠋ᡘᠯᢂ᠋ᡃ᠋᠖ᢌᢂᠰᠮ᠍ᠺᡰᡰᢄᡃ᠋
{LD1}	Sequence: Dimmed lights are vacancy controlled in this space. ON: The lights are turned on using wall dimmer. CONTROL: The lights are dimmed using wall dimmer. OFF: After the space has been vacant for 15 minutes, the lights will automatically turn off.
an <u>le</u> ffa	Scruence: Switched lights are vacantly controlled in this space.     ON: The lights turned on using switches.     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.

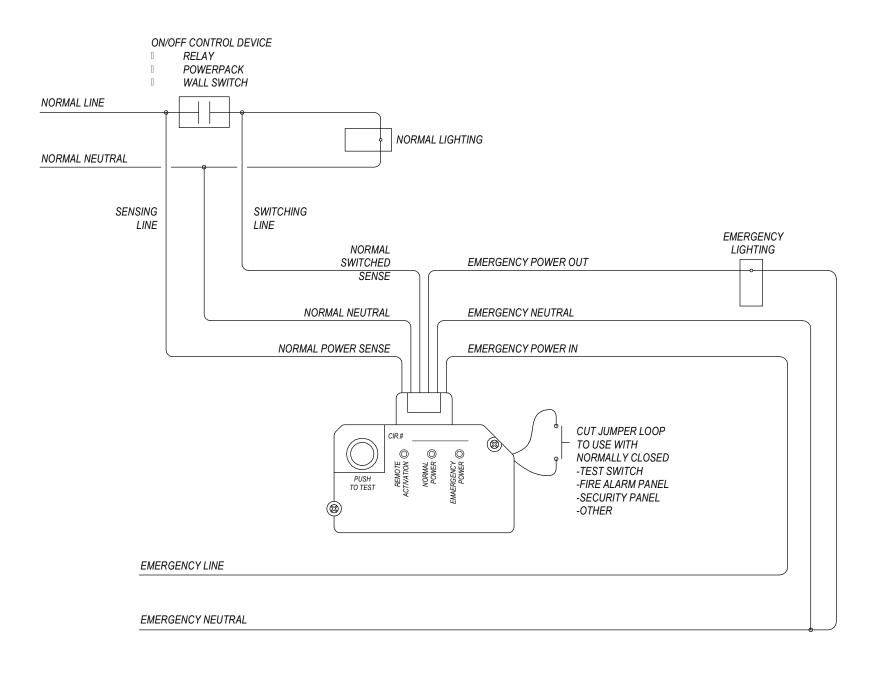
BIN OR



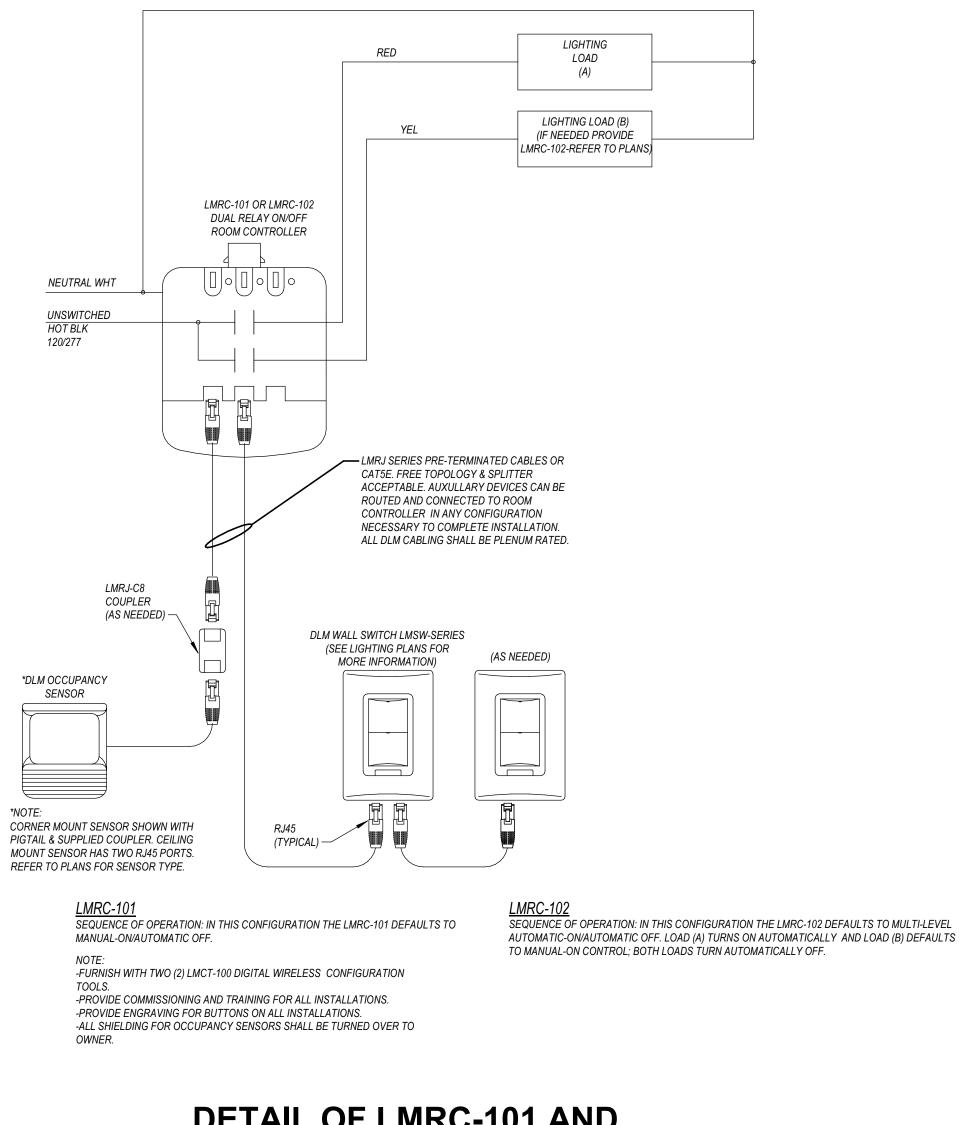
4

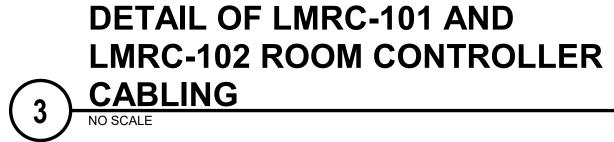
4

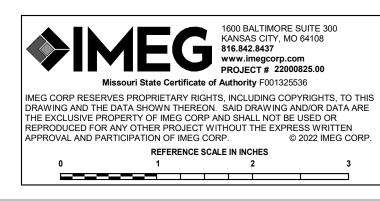


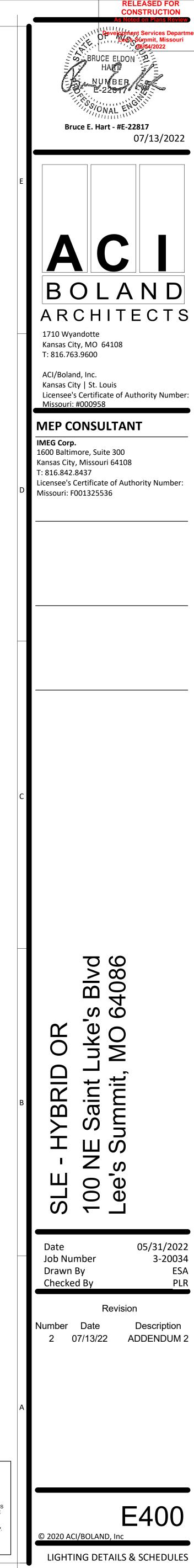


#### DETAIL OF AUTOMATIC LIGHTING **CONTROL RELAY - NORMAL AND EMERGENCY SWITCHED** NO SCALE 2

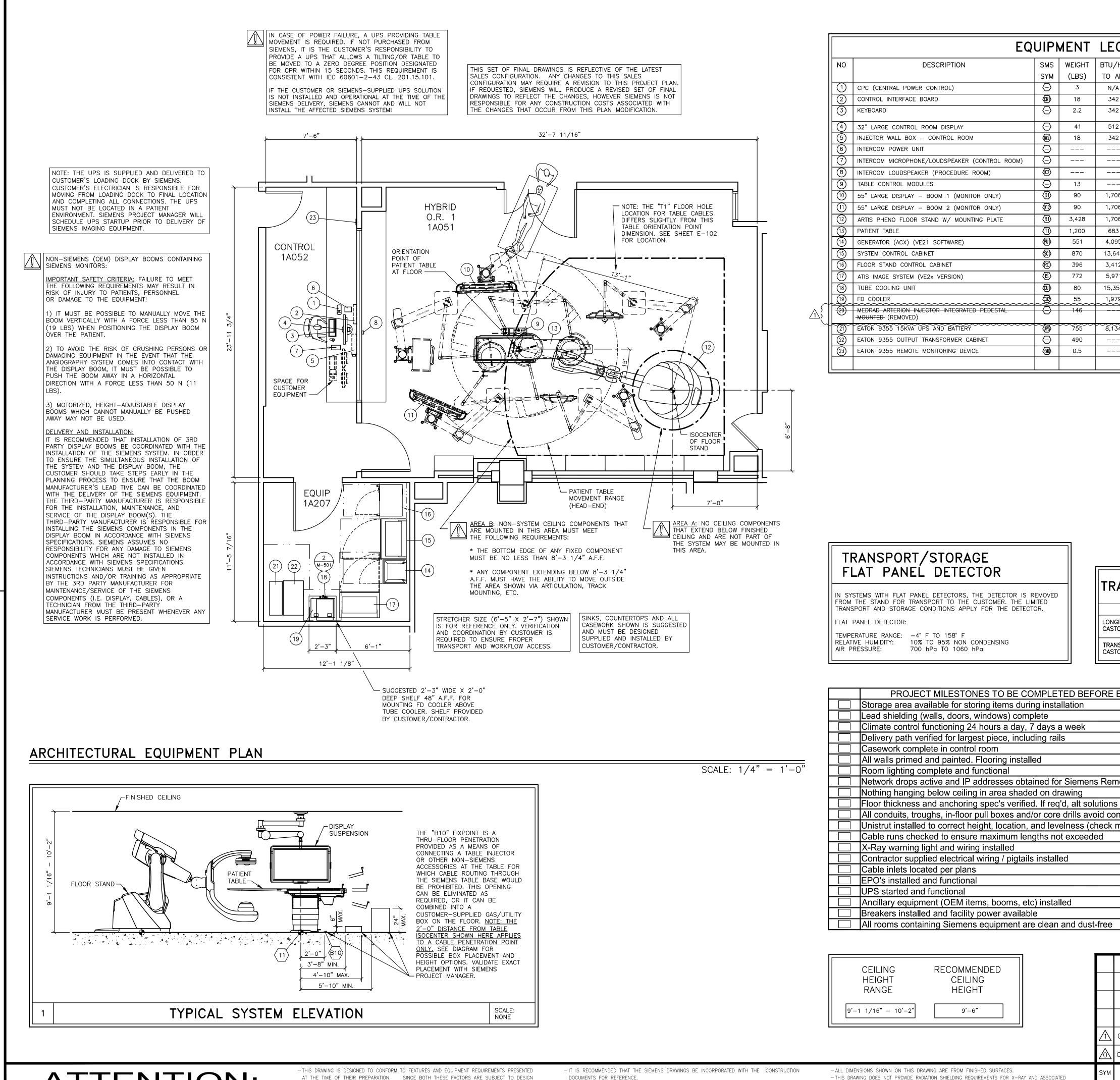








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**ATTENTION:** 

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. 08/04/2022

					ъ.
LEGE	ND				
BTU/HR	DIMEN	ISIONS (IN	CHES)	REMARKS	
TO AIR	W	D	н		
N/A	9 5/8	4	2 1/2	ON CONTROL COUNTER	
342	19 1/4	3 1/4	13 1/2	ON WALL UNDER COUNTER	1
342	17 1/2	6 1/8	2 1/8	MTD. UNDER COUNTER OR ON CONSOLE	
512	30	4	18 1/2	ON COUNTER OR CONSOLE	
342	20 1/4	4 3/4	13 3/8	ON WALL UNDER COUNTER	
	6 3/4	5	1 3/8	ON COUNTER	
	4 1/2	9	2	ON COUNTER	
	3 1/4	2	6	WALL MOUNTED	
	23	7 1/2	4	ON TABLE OR TROLLEY	1
1,706	49 3/4	5 1/4	29	OEM BOOM MOUNTED	1
1,706	49 3/4	5 1/4	29	OEM BOOM MOUNTED	1
1,706				ROBOT FLOOR MOUNTED	1
683				TABLE FLOOR MOUNTED	1
4,095	23 5/8	23 1/4	63 1/2	FLOOR MOUNTED	1
13,649	39 1/2	25 1/2	74 3/4	FLOOR MOUNTED	1
3,412	31 1/4	22 1/2	42	FLOOR MOUNTED	1
5,971	39 1/2	25 1/2	74 3/4	FLOOR MOUNTED	1
15,355	16 1/2	28 1/4	19 1/4	FLOOR OR SHELF MOUNTED	1
1,979	23 5/8	19	11 3/4	FLOOR OR SHELF MOUNTED	
	47 5/16	22	57 3/8	SEE MFG REQUIREMENTS	
8,134	12 3/4	33 1/2	47 3/4	SEE MFG REQUIREMENTS	忄
	20	34 1/8	66	SEE MFG REQUIREMENTS	1
	6	1	3	SEE MFG REQUIREMENTS	
					-

EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION

PHYSICIST TO SPECIFY RADIATION PROTECTION.

TRANSPORT	FRAME	REQUIREMENTS

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

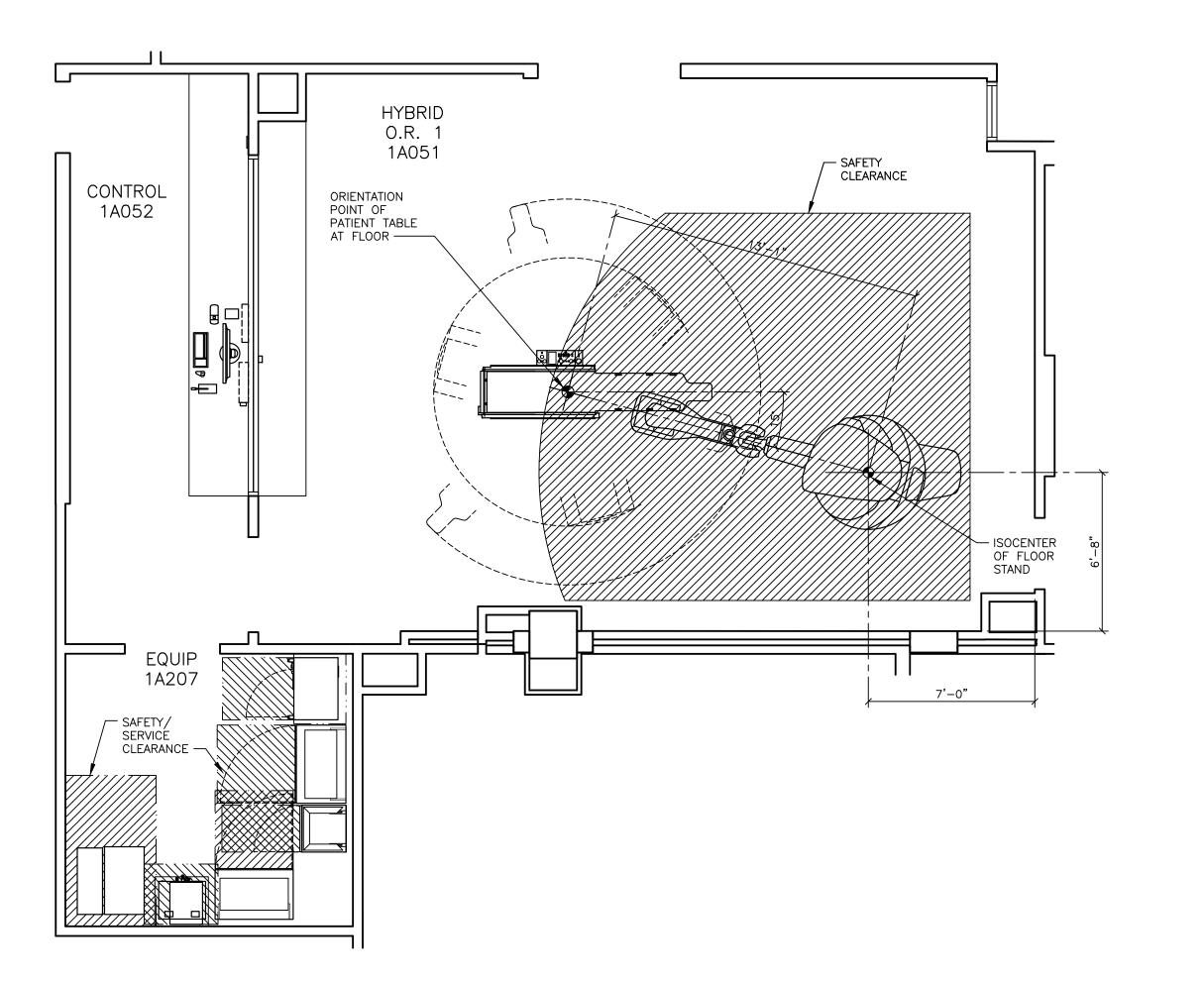
EFERENCE SHEET
A-101
A-102
A-102
S-101
S-101
S-102
E-101
E-101
E-102
E-501
A-101

ARCHI	TECTU	RAL	NOTES	, )
1) ALL PRELIMINARY EQU HEALTHCARE ARE BASED	ON THE RECO	OMMENDED	SPACE NECE	ESSARY F
THE OPERATION AND SE PROPOSED. SIEMENS WIL	RVICEABILITY O .L NOT SUBMIT	F THE EQU AN EQUIP	IIPMENT BEIN MENT LAYOU	IG T THAT IS
NOT IN THE BEST INTER ALL EQUIPMENT LAYOUTS	EST OF BOTH	THE CUSTO	MER AND S	EMENS.
SURVEY OR ARCHITECTU	RAL DRAWINGS	SUPPLIED	TO SIEMENS	. SIEMEN
VILL NOT BE RESPONSIE VITHIN DESIGNATED SAFE				
NDICATED ON DRAWINGS	(I.E PIPE CH	HASES, VEN	ITILATION DU	CTS,
CASEWORK, AND SOFFITS BY A CUSTOMER'S ARCH				
AVE BEEN SUBMITTED /	AND APPROVED	. DO NOT	ALTER ANY	
RECEIVING WRITTEN CON	FIRMATION FRO	M SIEMENS	PROJECT N	IANAGER.
2) SIEMENS HEALTHCARE FIRM. DRAWINGS SUPPLIE				
DRAWINGS. THEREFORE,	THESE DRAWIN	GS ARE TO	BE USED C	NLY FOR
INFORMATION TO COMPLE AVAILABLE FROM A CUST	OMER APPOIN	FED ARCHIT	ECTURAL	
REPRESENTATIVE OR A C CUSTOMER'S ARCHITECT				
ULTIMATELY RESPONSIBLE AND PROFESSIONAL DES	E FOR COMPLI	ANCE WITH	ALL APPLICA	ABLE COD
SAFETY CLEARANCE REQ	UIREMENTS IN			
SAFETY/SERVICE CLEARA 3) THE CUSTOMER IS RI			OM AND ARE	Ā
PREPARATION COSTS, PR				
INSPECTION FEES. 4) EQUIPMENT WARRANTI				
SÍEMENS SHALL BE CON ARCHITECTURAL, STRUCT	TINGENT UPON	STRICT CO	OMPLIANCE W	
RECOMMENDATIONS AND	REQUIREMENTS			DRAWING
JNLESS SPECIFIED OTHE 5) ALL DIMENSIONS SHO		FINISHED	SURFACES L	JNLESS
SPECIFIED OTHERWISE. 6) THIS DRAWING DOES				
RÉQUIREMENTS FOR X-F	RAY AND ASSO	CIATED EQU	IPMENT. THE	
IS RESPONSIBLE FOR CO PHYSICIST. ACTUAL PROT	INSULTING WIT	⊣ A KEGIST REMENTS S	ERED RADIA <sup>-</sup> HALL BE SPI	iiun Ecified e
A REGISTERED RADIATION EXPENSE. RESPONSIBILIT	I PHYSICIST AT	CUSTOME	R'S ENGAGEN	IENT AND
LOCATION, USE, AND NU	MBER OF ANTI	CIPATED E>	AMINATIONS	TO BE
PERFORMED PER TIME P BY THE CUSTOMER. THE	ERIOD SHALL CUSTOMER SH	BE PROVID	LD TO THE F	-HYSICIST L
RESPONSIBILITY IN THE ACTIVITIES OF THE RADIA	COMMUNICATION	N AND COC	RDINATION C	)F
REPRESENTATIVE.				
7) SIEMENS HEALTHCARE EQUIPMENT INSTALLATION	I, CALIBRATION,	CONNECTI	ON AND INS	TALLATION
OF SIEMENS PROVIDED ( IS RESPONSIBLE FOR TE				
CONTRACTOR-SUPPLIED	CABLES TO SI	EMENS EQU	JIPMENT. IN	THE EVEN
THE CUSTOMER SHALL II	NITIATE THE SE	RVICES OF	APPROVED	OTHER
CONTRACTORS AND PAY THIS WORK WITH SUPER	VISION PROVIDI	ED BY SIEN	IENS. CALIBR	RATION
WHEN ACCOMPLISHED OU DUE TO CONTRACTOR OF	JTSIDE OF NOF	RMAL INSTA	LLATION SEQ	UENCES
SHALL BE SUPPORTED E CUSTOMER AS AN ADDIT	BY, CHARGED T	O, AND AC	CEPTED BY	
8) THE CUSTOMER SHAL	L COORDINATE	WITH SIEM	IENS PROJEC	
THE LOCATIONS AND TRACE	TED (I.E.: O.R.	LIGHTS, M	EDICAL GAS	COLUMNS
PHYSIOLOGICAL MONITOR HEADS, SMOKE DETECTO	ING INJECTORS	, CRT PLA	FORMS, SPR	RINKLER
SPEAKERS, AND GENERA	L ROOM LIGHT	ING, ETC.).		
9) THE GENERAL CONTR ALL FINAL PAINT, TOUCH	I-UP ÁND ANY	COSMETIC	OR TRIM W	ORK WHI
NEEDS TO BE OR IS RE	QUIRED TO BE	COMPLETE	D AFTER TH	E
INSTALLATION OF THE SI SUPPORT APPARATUS.				
10) CUSTOMER/CONTRAC INSTALLATION OF EQUIPM	IENT ABOVE 14	4'-0". REF	ER TO THE E	
NOTES ON SIEMENS SHE		K MORE DE	TAILS.	
MAGNETIC	FIELD	PRE	CAUTI	ONS
THE PRESENCE OF MA	GNETIC FIFLDS	IN THE VI	CINITY OF FO	
MAY HAVE AN ADVERSE	E EFFECT. IT IS	S THE CUS	TOMER'S RES	SPONSIBI
TO VERIFY THAT THE F	ULLOWING VAL			.D.
MAXIMUM ALLOWABLE MAGNETIC FIELD		DEVICES		
1.0mT (10 GAUSS)	COMPUTERS,			, ,
	OSCILLOSCOP			
0.5mT (5 gauss)	DATA CARRIE	RS, DATA S	TORAGE DRI	VES
0.2mT (2 GAUSS)	SIEMENS CT	SCANNERS		
	COLOR MONI		ENS LINEAD	
0.15mT(1.5 GAUSS)	ACCELERATOR		LINCAR	
0.05mT(0.5 GAUSS)	X-RAY IMAGE		ERS, GAMMA	CAMERAS
MAGNETIC FIELDS SHO	PEI/CICLUIP			
W SHENG HILLDS SHU				
			EVIEW	1
STATE	AGEN			
PRIOR TO SIEMENS EQ CONSTRUCTION OR STR	UIPMENT INSTA	LLATION, A	PPROVAL OF UTILIZING X-	-RAY FO
PRIOR TO SIEMENS EQ	UIPMENT INSTA RUCTURAL MOD PEUTIC PURPOS	LLATION, A IFICATIONS SES, MUST	PPROVAL OF UTILIZING X- BE OBTAINE	-RAY FOI D BY TH
PRIOR TO SIEMENS EQ CONSTRUCTION OR STF DIAGNOSTIC OR THERAF	UIPMENT INSTA RUCTURAL MOD PEUTIC PURPOS APPROPRIATE	ILLATION, A IFICATIONS SES, MUST STATE AGEI	PPROVAL OF UTILIZING X- BE OBTAINE NCY, IF APPL	-RAY FOI D BY TH ICABLE.
PRIOR TO SIEMENS EQ CONSTRUCTION OR STE DIAGNOSTIC OR THERAF CUSTOMER FROM THE <b>RESOURCE</b> DESIGNATION	UIPMENT INSTA RUCTURAL MOD PEUTIC PURPOS APPROPRIATE	ALLATION, A IFICATIONS SES, MUST STATE AGEN STATE AGEN SMS	PPROVAL OF UTILIZING X- BE OBTAINE NCY, IF APPL	-RAY FOI D BY TH ICABLE. DNLY
PRIOR TO SIEMENS EQ CONSTRUCTION OR STE DIAGNOSTIC OR THERAF CUSTOMER FROM THE <b>RESOURCE</b> DESIGNATION	UIPMENT INSTA RUCTURAL MOD PEUTIC PURPOS APPROPRIATE	ALLATION, A IFICATIONS SES, MUST STATE AGEN STATE AGEN SMS	PPROVAL OF UTILIZING X- BE OBTAINE NCY, IF APPL	-RAY FOI D BY TH LICABLE. DINLY
PRIOR TO SIEMENS EQ CONSTRUCTION OR STE DIAGNOSTIC OR THERAF CUSTOMER FROM THE <b>RESOURCE</b> DESIGNATION	UIPMENT INSTA RUCTURAL MOD PEUTIC PURPOS APPROPRIATE	ALLATION, A IFICATIONS SES, MUST STATE AGEN STATE AGEN SMS	PPROVAL OF UTILIZING X- BE OBTAINE NCY, IF APPL	-RAY FOI D BY TH ICABLE. DNLY
PRIOR TO SIEMENS EQ CONSTRUCTION OR STE DIAGNOSTIC OR THERAF CUSTOMER FROM THE	UIPMENT INSTA RUCTURAL MOD PEUTIC PURPOS APPROPRIATE	ALLATION, A IFICATIONS SES, MUST STATE AGEI SMS PG ATHE-PGR.	PPROVAL OF UTILIZING X- BE OBTAINE NCY, IF APPL	-RAY FOI D BY TH ICABLE. DI 2 10 AR

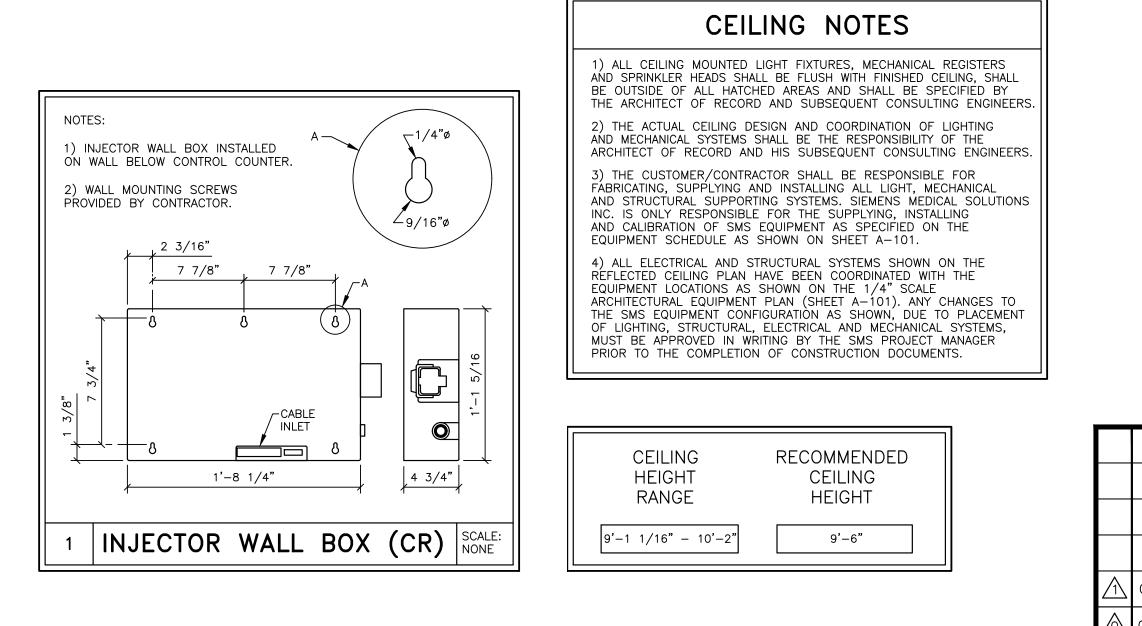
							ARTIS PHENO REV. 31
		TEL: (417) 576 VMAIL: FAX:	R: MARK BUXTON -7820 EXT: ON@SIEMENS-HEAL	THINEERS.COM		SIEME	ENS
		STL	100 NE	SEAS SAINT LUKES BLVD, (BRID OR 1 - ARTIS	, LEES SUMMIT, MO	64086	MIT
6/20/22	REMOVED INJECTOR PER SALES ORDER	THIS TITLE B	PRODUCTION OF LOCK WITHOUT	PROJECT #:		SHEET:	
6/08/22	PRELIMINARY VERSION 'B' DATED 04/19/22 APPROVED BY CUSTOMER FOR FINALS	RESULT IN PROS	ORIZATION WILL SECUTION UNDER OF THE LAW.	2102	2395	Λ 1	$\Lambda 1$
DATE	DESCRIPTION		RE RESERVED.	SHEET OF 1 7	DRAWN BY: E. SANDIFER		UI
-ISSU	E BLOCK-	SCALE: AS NOTED	REF. #: 30267218	DATE: 06/08/22			<b>-</b>

# 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.



#### SAFETY/SERVICE CLEARANCE PLAN



- 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.

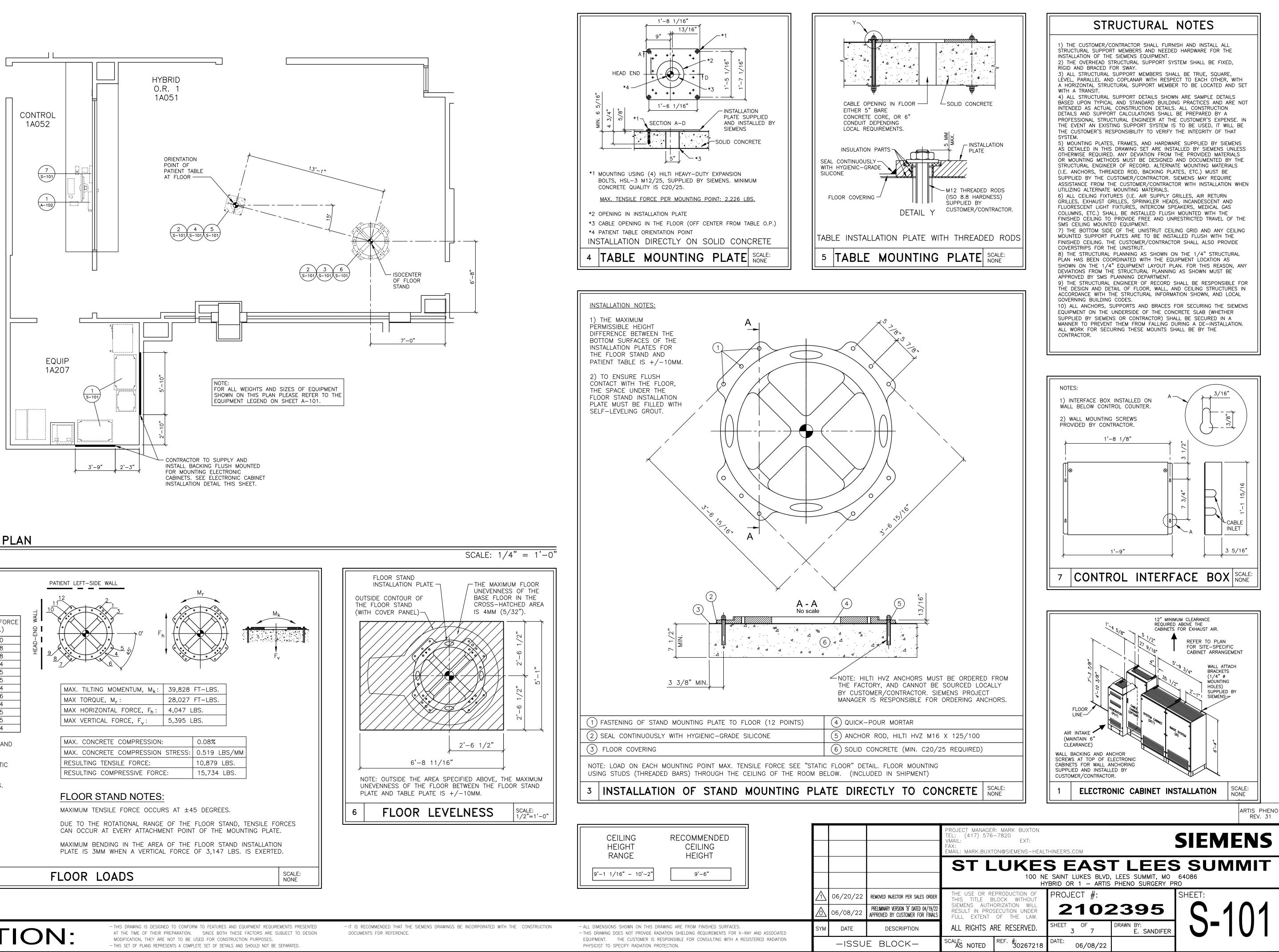
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ARTIS PHENO REV. 31

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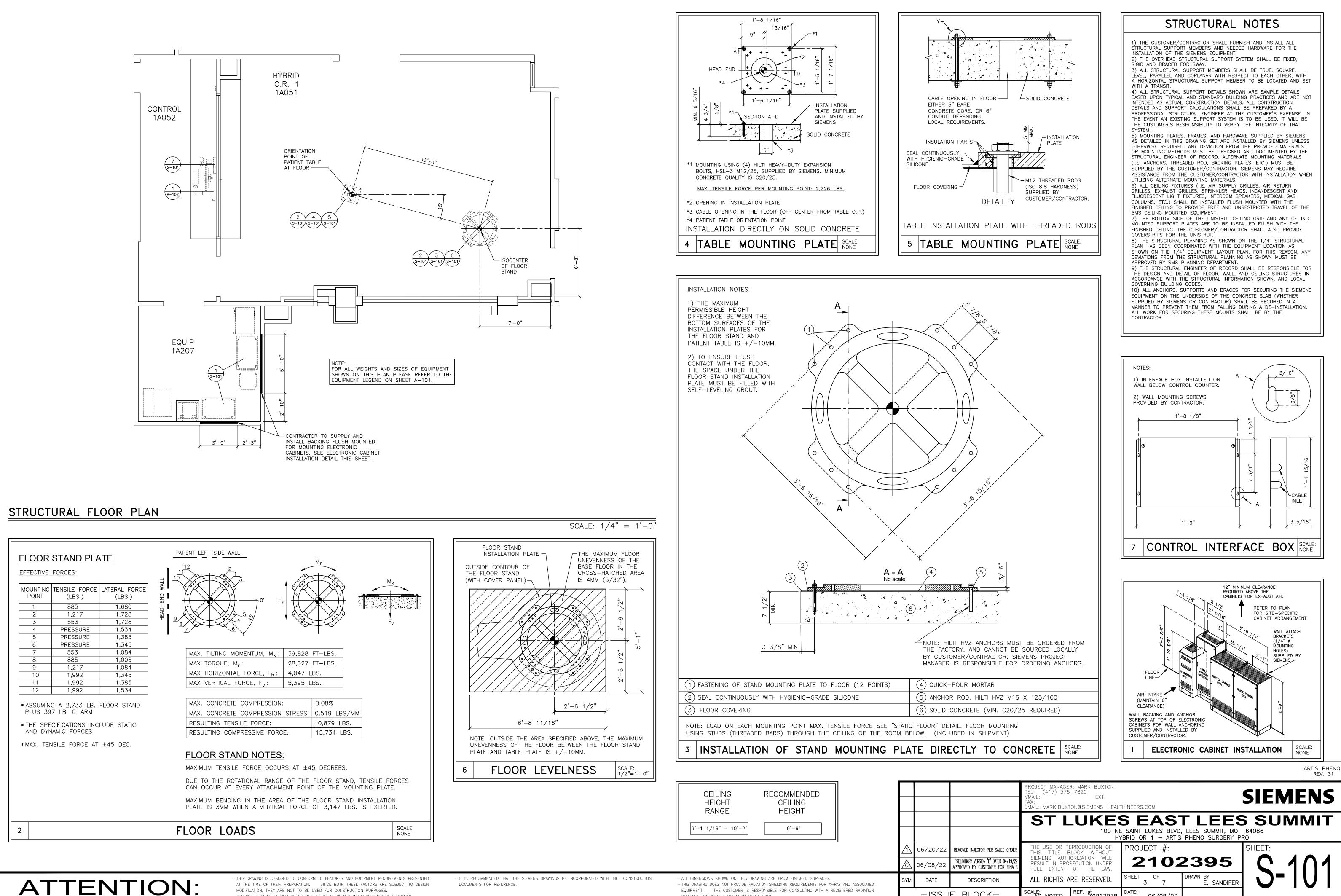
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		TEL: (417) 576 VMAIL: FAX:	R: MARK BUXTON —7820 EXT: ON@SIEMENS—HEAL <sup>-</sup>	THINEERS.COM		SIEM	ENS
		ST L	100 NE	SEAS SAINT LUKES BLVD, BRID OR 1 - ARTIS	LEES SUMMIT, MO	64086	ΜΙΤ
06/20/22	REMOVED INJECTOR PER SALES ORDER		EPRODUCTION OF LOCK WITHOUT	PROJECT #:		SHEET:	
06/08/22	Preliminary version 'b' dated 04/19/22 APPROVED BY CUSTOMER FOR FINALS	OILMENO / TOTH	ORIZATION WILL SECUTION UNDER OF THE LAW.	2102	2395	ΙΛ 1	1
DATE	DESCRIPTION	ALL RIGHTS A		SHEET OF 2 7	DRAWN BY: E. SANDIFER		UZI
-ISSU	E BLOCK-	SCALE: AS NOTED	REF. #: 30267218	DATE: 06/08/22			• —



PHYSICIST TO SPECIFY RADIATION PROTECTION.

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



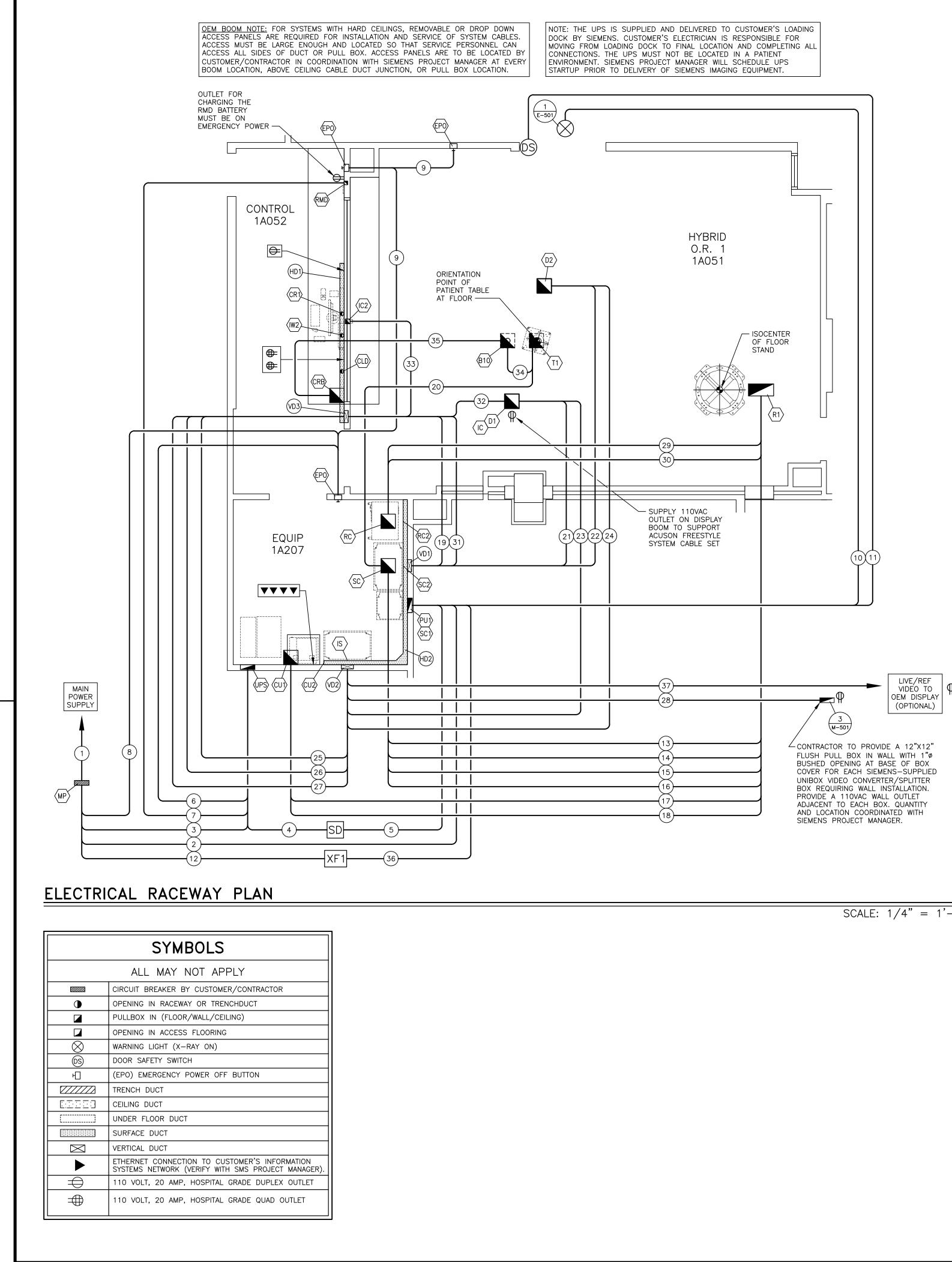


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-ISSUE BLOCK-

DATE:

06/08/22



**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.

SCALE: 1/4" = 1'-0

SYM	SIZE		DEMADIC
IM	SIZE	DESCRIPTION SUPPLIED AND INSTALLED BY CUSTOMER/CONTRACTOR	REMARKS
<b>@10</b>	AS REQUIRED	PULL BOX MOUNTED FLUSH IN FINISHED FLOOR WITH REMOVABLE TOP COVER WITH 4"Ø BUSHED OPENING.	TABLE ACCESSORIES
	3"ø	BUSHED OPENING IN TOP OF HORIZONTAL DUCT "HD1".	C-ROOM LD INPUTS
(CR1)	3"ø	BUSHED OPENING IN TOP OF HORIZONTAL DUCT "HD1".	CONTROL ROOM DISTRIBUT
(RB)	AS REQUIRED	PULL BOX MOUNTED FLUSH IN FINISHED FLOOR WITH REMOVABLE TOP COVER. CONNECT TO RACEWAY "HD1".	CONTROL ROOM BOX
Ŵ	AS REQUIRED	PULL BOX MOUNTED FLUSH IN FINISHED FLOOR WITH REMOVABLE TOP COVER AND (1) 5"Ø BUSHING IN CENTER OF REMOVABLE COVER FOR CABLE EXIT.	COOLING UNITS
©2 (1)		OPENING AT END OF RACEWAY "HD2"	COOLING UNITS
_	AS REQUIRED	PULL BOX MOUNTED ABOVE FINISHED CEILING WITH REMOVABLE BOTTOM COVER WITH 4"Ø BUSHED OPENING.	LARGE DISPLAY 1
	AS REQUIRED	PULL BOX MOUNTED ABOVE FINISHED CEILING WITH REMOVABLE BOTTOM COVER WITH 4"Ø BUSHED OPENING.	LARGE DISPLAY 2
蝍		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 SPEAK
	6"ø 3"ø	BUSHED OPENING IN HORIZONTAL DUCT "HD2" COVER AT FLOOR LINE BUSHED OPENING IN TOP OF HORIZONTAL DUCT "HD1".	OPERATION IN CONTROL RI
w l		MAIN PANEL WITH MAIN BREAKER. LOCATION DETERMINED BY CUSTOMER/CONTRACTOR. SEE	BREAKER PANEL
(R1)	21" X 10"	"POWER SCHEDULE". CUSTOM PULL BOX MOUNTED FLUSH IN FINISHED FLOOR WITH DEPTH AS REQUIRED FOR BURIED	FLOOR STAND
_		CONDUIT CONNECTIONS. SEE DETAIL 1, SHEET E-102.	
<u>®</u>	AS REQUIRED	PULL BOX MOUNTED FLUSH IN FINISHED FLOOR WITH 6"Ø BUSHED OPENING IN TOP COVER. BUSHED OPENING IN HORIZONTAL DUCT "HD2" COVER AT FLOOR LINE	FLOOR STAND CABINET
(RMD)	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"Ø	SYSTEM CABINET
	AS REQUIRED	BUSHED OPENINGS. PULL BOX MOUNTED FLUSH IN FINISHED WALL AT FLOOR LINE. CONNECT BOX TO RACWAY "HD2".	SYSTEM CABINET
\$02	6"ø	BUSHED OPENING IN HORIZONTAL DUCT "HD2" COVER AT FLOOR LINE	SYSTEM CABINET
<u></u>	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 RK5 FUSES. SEE POWER SCHEDULE.	UPS SERVICE DISCONNECT
	AS REQUIRED	PULL BOX MOUNTED FLUSH IN FINISHED FLOOR WITH REMOVABLE TOP COVER WITH 5"Ø 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"Ø BUSHED OPENING.	15KVA UPS
(F)	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
H2	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
M1 (V12) (V13)	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"
2 (3)	EC TO SIZE	CONDUIT FROM "MP" TO "PU1"	SEE "POWER SCHEDULE"
(3) (4)	EC TO SIZE	CONDUIT FROM "MP" TO "UPS" WITH FLEX CONDUIT FROM UPS BOX TO UPS CABINET. CONDUIT FROM "UPS" TO "SD" WITH FLEX CONDUIT FROM UPS BOX TO OUTPUT XFMR CABINET.	SEE "POWER SCHEDULE" SEE "POWER SCHEDULE"
5	EC TO SIZE	CONDUIT FROM "SD" TO "SC1"	SEE "POWER SCHEDULE"
6	3/4"ø	CONDUIT FROM "UPS" TO "EPO" WITH FLEX CONDUIT FROM UPS BOX TO UPS CABINET.	SEE "POWER SCHEDULE"
$\bigcirc$	3/4"ø	CONDUIT FROM "RMD" TO "UPS"	SEE "POWER SCHEDULE"
8	3/4"ø	CONDUIT FROM "MP" TO "EPO"	SEE "POWER SCHEDULE"
<u>9</u> (10)	EC TO SIZE	CONDUIT FROM "EPO" TO "EPO" CONDUIT FROM "SC1" TO "WL"	
(1)	EC TO SIZE	CONDUIT FROM "SC1" TO "WE CONDUIT FROM "SC1" TO "DS"	
12	EC TO SIZE	CONDUIT FROM "MP" TO "XF1" (OPTIONAL)	TABLE POWER OUTLET
(13)	2"ø	CONDUIT FROM "R1" TO "SC" (PU1) IN FLOOR	MAX. CONDUIT LENGTH 50'
(14)	(2) 3"ø	CONDUIT FROM "R1" TO "SC" (PU1) IN FLOOR	MAX. CONDUIT LENGTH 50'
(15)	2"ø	CONDUIT FROM "R1" TO "SC" (SC1) IN FLOOR	MAX. CONDUIT LENGTH 47'
	4"ø	CONDUIT FROM "R1" TO "SC" (SC1) IN FLOOR	MAX. CONDUIT LENGTH 48'
(17) (18)	3"ø 2"ø	CONDUIT FROM "R1" TO "CU1" IN FLOOR FOR LIQUID COOLING HOSES CONDUIT FROM "R1" TO "CU1" IN FLOOR FOR LIQUID COOLING HOSES	MAX. CONDUIT LENGTH 90' MAX. CONDUIT LENGTH 42'
<u>(1)</u>	2 Ø 2ӯ	CONDUIT FROM "VD1" (SC1) TO "VD3" (CR1)	MAX. CONDUIT LENGTH 42 MAX. CONDUIT LENGTH 31
20	(2) 3"ø	CONDUITS FROM "SC" (SC1) TO "T1" IN FLOOR	MAX. CONDUIT LENGTH 40
21	3"ø	CONDUIT FROM "VD1" (SC1) TO "D1"	MAX. CONDUIT LENGTH 50
22	3"ø	CONDUIT FROM "VD1" (SC1) TO "D2"	MAX. CONDUIT LENGTH 50'
23	2 1/2"ø	CONDUIT FROM "VD2" (IS) TO "D1"	MAX. CONDUIT LENGTH 62'
24	2 1/2"ø	CONDUIT FROM "VD2" (IS) TO "D2"	MAX. CONDUIT LENGTH 62
25	(2) 2"ø	CONDUITS FROM "VD2" (IS) TO "VD3" (CR1)	MAX. CONDUIT LENGTH 28
26 27	2 1/2"ø	CONDUITS FROM "VD2" (IS) TO "VD3" (CR1)	MAX. CONDUIT LENGTH 57
27) 28	(2) 3"ø VARIES	CONDUITS FROM "VD2" (IS) TO "VD3" (CLD) CONDUIT(S) FROM "VD2" (IS) TO CUSTOMER SOURCES	MAX. CONDUIT LENGTH 80' MAX. CONDUIT LENGTH 80'
29	6"ø	CONDUIT(S) FROM VD2 (IS) TO CUSTOMER SOURCES	MAX. CONDUIT LENGTH 80
30	3"ø	CONDUIT FROM "RC" TO "R1" IN FLOOR	MAX. CONDUIT LENGTH 40'
31	2"ø	CONDUIT FROM "VD1" (SC1) TO "VD3" (IW2)	MAX. CONDUIT LENGTH 31'
32	3/4"ø	CONDUIT FROM "VD3" TO "IC"	MAX. CONDUIT LENGTH 62'
33	3/4"ø	CONDUIT FROM "VD3" TO "IC2"	MAX. CONDUIT LENGTH 62'
34	3"ø	CONDUIT FROM "T1" TO "B10" IN FLOOR	
35	3"ø	CONDUIT FROM "CRB" TO "B10" IN FLOOR (OPTION) (CUSTOMER PATIENT MONITORING)	
36 37	2"ø	CONDUIT FROM "XF1" TO "SC1" ("T1") (OPTIONAL TABLE POWER OUTLET)	MAX. CONDUIT LENGTH 60'
	1 1/2"ø	CONDUIT FROM "VD2" (IS) TO "CUSTOMER MONITOR" (LIVE+REF VIDEO TO OEM OPTION)	MAX. CONDUIT LENGTH 80'

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

PHYSICIST TO SPECIFY RADIATION PROTECTION.

_	- 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
	DUVSICIST TO SPECIEV PADIATION OPOTECTION

#### ELECTRICAL NOTES

RELEASED FOR CONSTRUCTION As Noted on Plans Review

08/04/2022

ment Services Departmen

1) COMPLIANCE: ELECTRICAL WORK SHALL BE IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE (NFPA-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. POWER SUPPLY SOURCE: POWER SUPPLIES FOR SIEMENS HEALTHCARE EQUIPMENT SHALL BE FROM A MEDICAL IMAGING PANEL OR BUILDING SERVICE EQUIPMENT THAT IS A GROUNDED 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 SÍEMENS 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, 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

KEEP RACEWAYS AT LEAST 6 INCHES AWAY FROM PARALLEL RUNS OF FLUES OR STEAM AND HOT WATER PIPES. INSTALL RACEWAY 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 CABLING). 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.

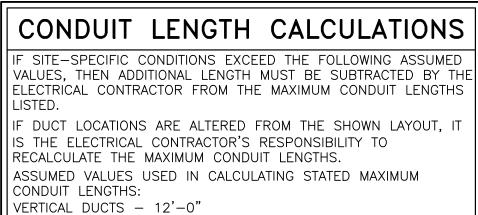
LOCATIONS OF BUILDING MATERIAL OPENINGS (I.E. ACCESS PANELS) TO BE CUT IN FIELD ARE TO BE COORDINATED WITH THE DRAWING REQUIRMENTS AND BUILDING STRCTURE. THOSE THAT ARE NOT INDICATED OR INTERFER WITH BUILDING ELEMENTS SHALL BE COORDINATED WITH SIEMENS PROJECT MANAGER. ELECTRICAL PULL BOXES AND RACEWAY COVERS SHALL BE NSTALLED 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" × 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.

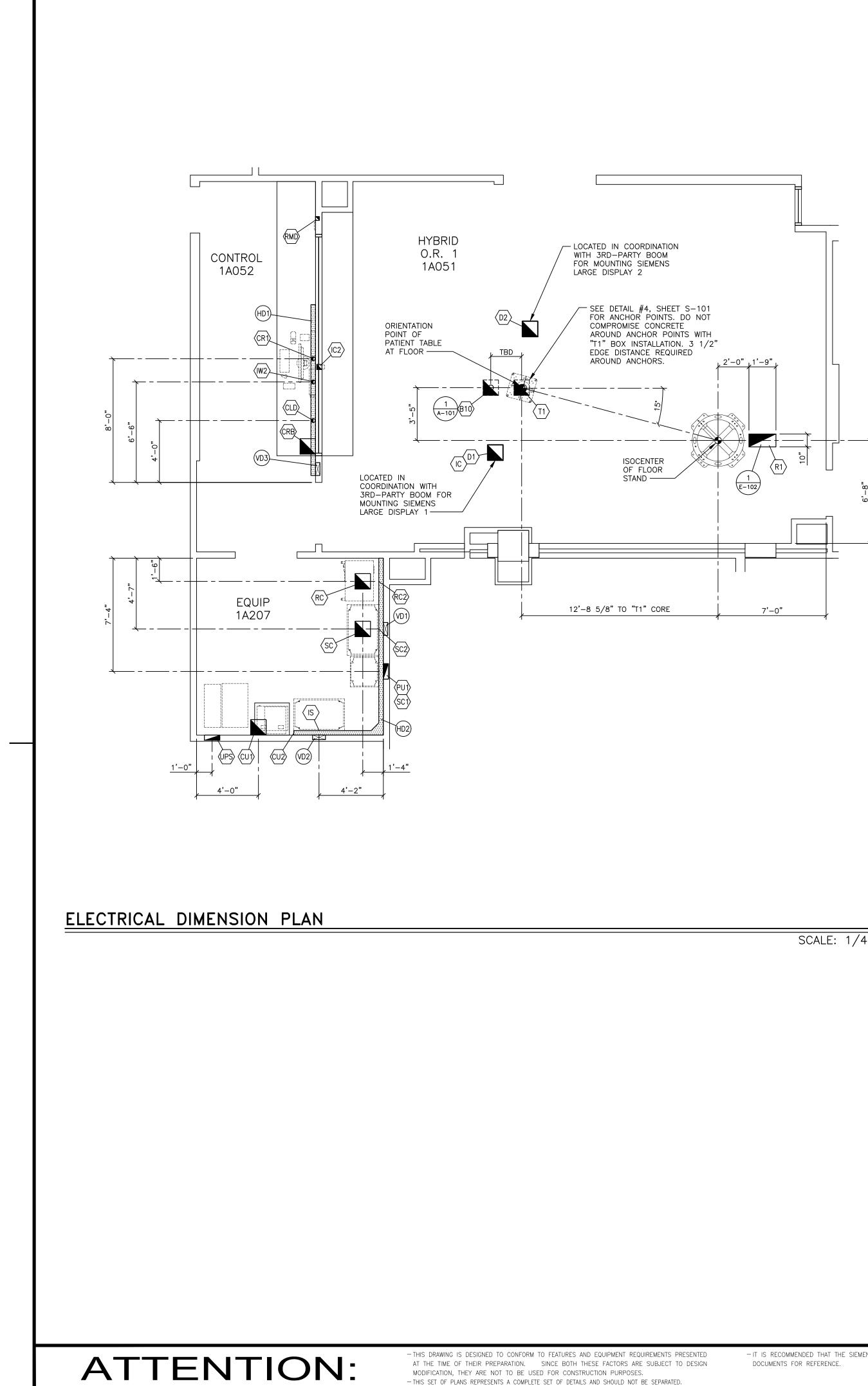
7) SHORT CIRCUIT REQUIREMENTS: ALL CIRCUIT BREAKERS SUPPLIED FOR THE SIEMENS EQUIPMENT REQUIREMENTS SHALL BE RATED HIGHER THAN THI SHORT CIRCUIT AVAILABLE AT THE TERMINALS OF THE ELECTRICAL EQUIPMENT AS DETERMINED BY THE ENGINEER OF RECORD, BUT NOT LESS THAN 35,000A RMS SYMMETRICAL AT 480V, 3-PHASE, 60 HERTZ. THE CONTRACTOR SHALL OBTAIN THE CORRECT SHORT CIRCUIT CURRENT RATING OF ALL THE NEW EQUIPMENT FOR INSTALLATION FROM THE ENGINEER OF RECORD.

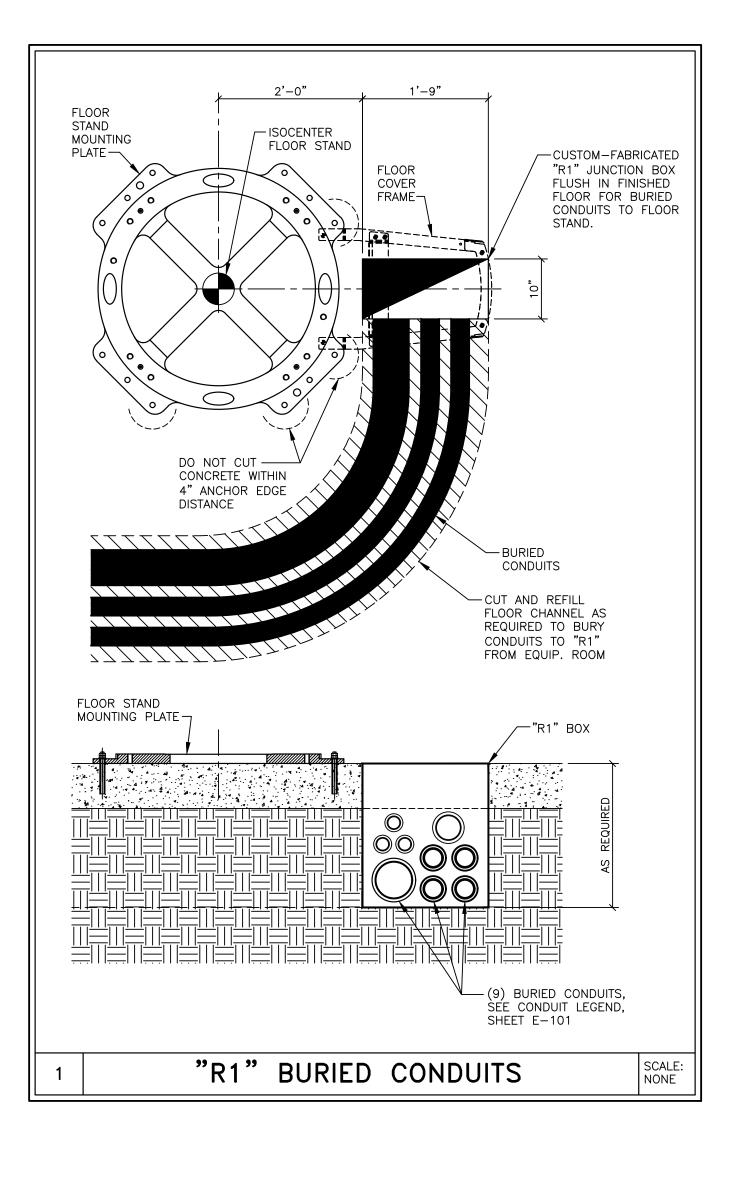


FLOOR PENETRATIONS - 3'-0"

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

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



- 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.

- IT IS RECOMMENDED THAT THE SIEMENS DRAWINGS BE INCORPORATED WITH THE CONSTRUCTION

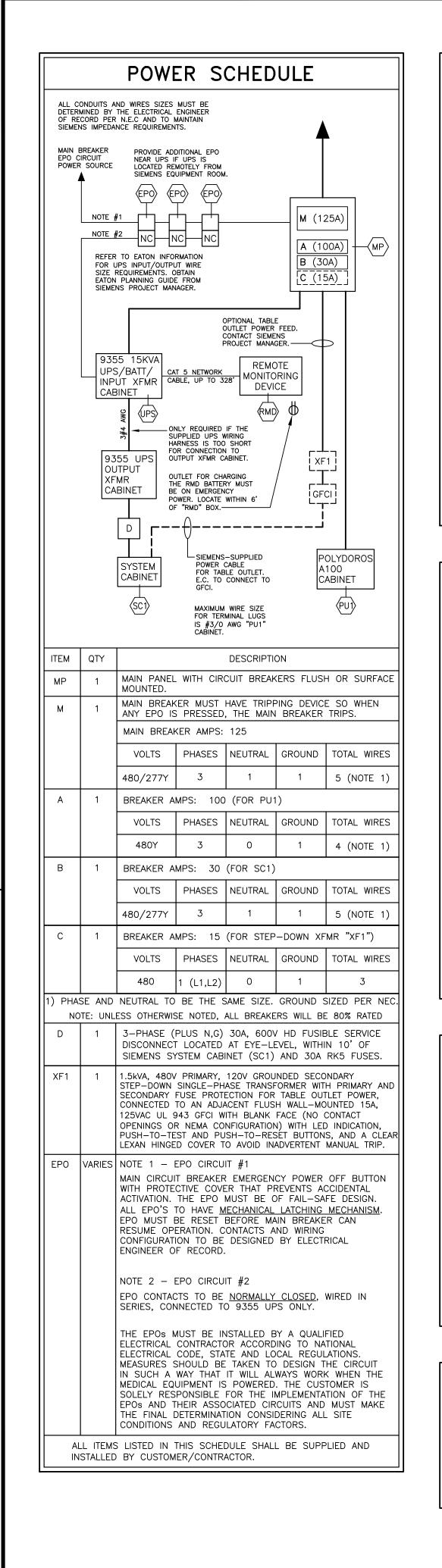
08/04/2022

		00	NTRACTOR SUPPLIED CABLES	
FROM	VIA	то	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"

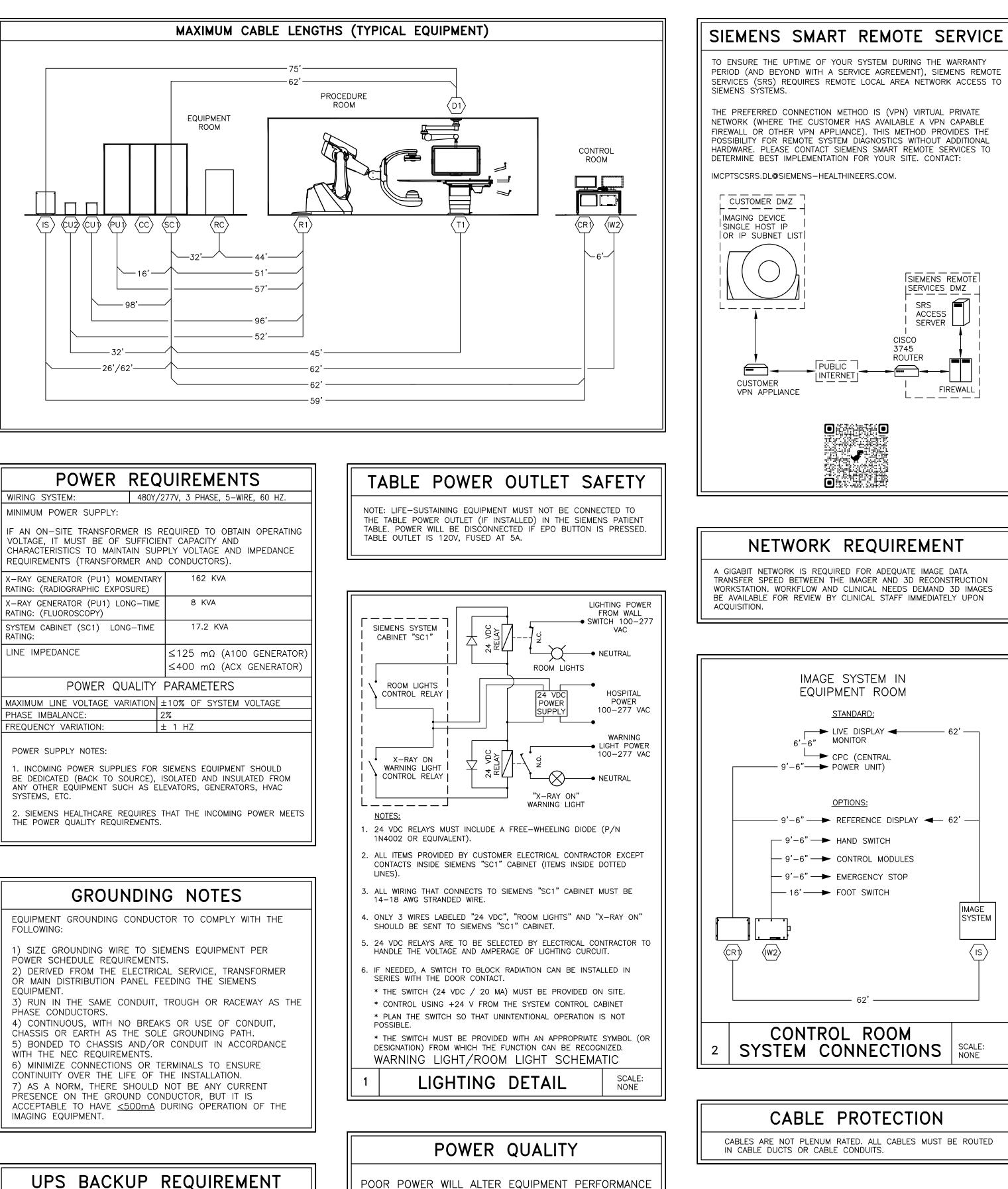
		S	EMENS SUPPLIED CABLES	
FROM	VIA	то	DESCRIPTION	REMARKS
R1	13,SC	PU1		MAXIMUM LENGTH 57'
R1	14,SC	PU1	(2) HIGH VOLTAGE CABLES	MAXIMUM LENGTH 57'
R1	15,SC	SC1		MAXIMUM LENGTH 51'
R1	16,SC	SC1		MAXIMUM LENGTH 52'
R1	17	CU1	LIQUID COOLING HOSES (KLUVER TUBE COOLER)	MAXIMUM LENGTH 96'
R1	18	CU1	LIQUID COOLING 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	KLUVER 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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		PROJECT MANAGEF TEL: (417) 576- VMAIL: FAX: EMAIL: MARK.BUXT		THINEERS.COM		SIEMENS
		ST L	100 NE	SAINT LUKES BLVD	LEES SUMMIT, MO PHENO SURGERY PI	
06/20/22	REMOVED INJECTOR PER SALES ORDER		LOCK WITHOUT	PROJECT #:		SHEET:
06/08/22	PRELIMINARY VERSION 'B' DATED 04/19/22 APPROVED BY CUSTOMER FOR FINALS		DRIZATION WILL SECUTION UNDER OF THE LAW.	2102	2395	
DATE	DESCRIPTION	ALL RIGHTS A		SHEET OF 5 7	DRAWN BY: E. SANDIFER	
-ISSU	E BLOCK-	SCALE: AS NOTED	REF. #: 30267218	DATE: 06/08/22		



ATTENTION:



POWER REC	UIREMENTS
WIRING SYSTEM: 480Y	/277V, 3 PHASE, 5-WIRE, 60 HZ.
MINIMUM POWER SUPPLY:	
IF AN ON-SITE TRANSFORMER IS VOLTAGE, IT MUST BE OF SUFFICI CHARACTERISTICS TO MAINTAIN SU REQUIREMENTS (TRANSFORMER AN	ENT CAPACITY AND PPLY VOLTAGE AND IMPEDANC
X-RAY GENERATOR (PU1) MOMENTAR RATING: (RADIOGRAPHIC EXPOSURE)	Y 162 KVA
X-RAY GENERATOR (PU1) LONG-TIM RATING: (FLUOROSCOPY)	E 8 KVA
SYSTEM CABINET (SC1) LONG-TIME RATING:	17.2 KVA
LINE IMPEDANCE	≤125 mΩ (A100 GENERA
	≤400 mΩ (ACX GENERAT
POWER QUALITY	PARAMETERS
MAXIMUM LINE VOLTAGE VARIATION	±10% OF SYSTEM VOLTAGE
PHASE IMBALANCE:	2%
FREQUENCY VARIATION:	± 1 HZ
POWER SUPPLY NOTES:	

GROUNDING	NOTES
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#### 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 TURNOVER THE AFFECTED SIEMENS SYSTEM!

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.

IT IS IN THE CUSTOMER'S INTEREST THAT THE ELECTRICAL

SPECIFICATIONS.

CONTRACTOR BE RESPONSIBLE FOR TESTING AND VERIFYING THAT

THE EQUIPMENT POWER SUPPLY COMPLIES WITH THE SIEMENS

- 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.

- 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

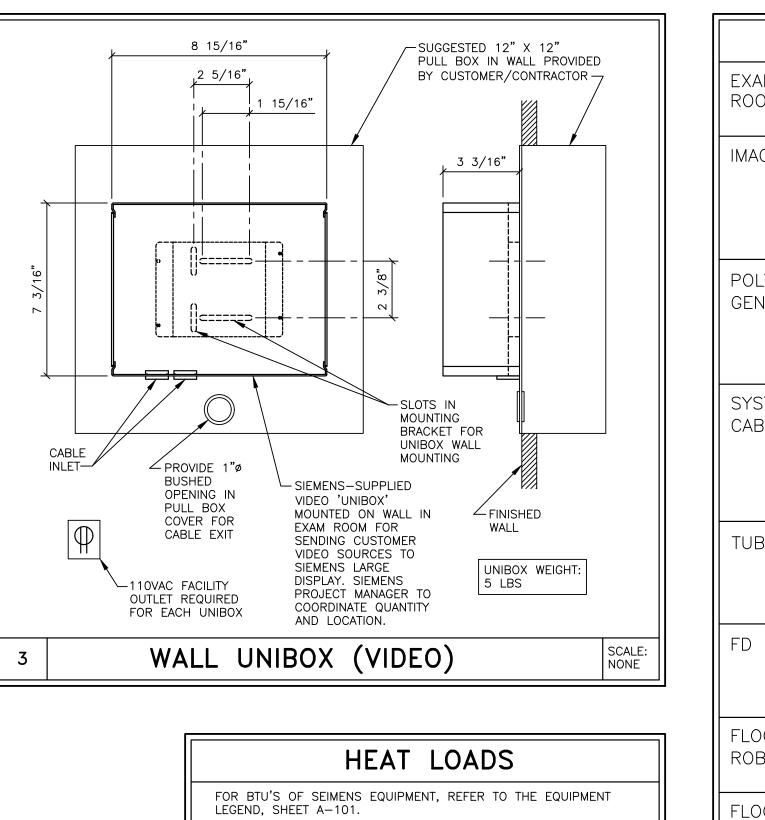
RELEASED FOR CONSTRUCTION As Noted on Plans Review pment Services De Lee's Summit, Missouri 08/04/2022

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		PROJECT MANAGEF TEL: (417) 576 VMAIL: FAX: EMAIL: MARK.BUXT		THINEERS.COM		SIEMENS
		ST L	100 NE	S EAS SAINT LUKES BLVD, (BRID OR 1 - ARTIS	LEES SUMMIT, MO	
06/20/22	REMOVED INJECTOR PER SALES ORDER		PRODUCTION OF LOCK WITHOUT	PROJECT #:		SHEET:
06/08/22	PRELIMINARY VERSION 'B' DATED 04/19/22 APPROVED BY CUSTOMER FOR FINALS	DESLIET IN DRAG	ORIZATION WILL SECUTION UNDER OF THE LAW.	2102	2395	
DATE	DESCRIPTION	ALL RIGHTS A		SHEET OF 6 7	DRAWN BY: E. SANDIFER	
-ISSU	E BLOCK-	SCALE: AS NOTED	REF. #: 30267218	DATE: 06/08/22		



- 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.



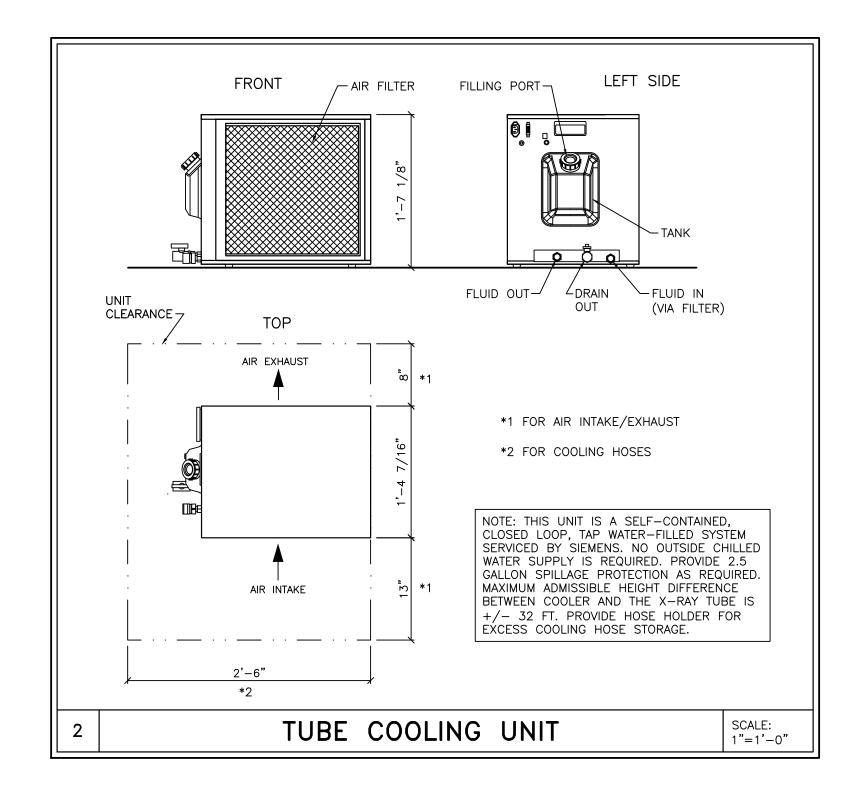
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CEILING	RECOMMENDED		
HEIGHT	CEILING		
RANGE	HEIGHT		
9'-1 1/16" - 10'-2"	9'-6"		

— IT	IS	RECO
DC	CU	MENTS

- 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.

	ENVIRONMENTAL	CONDITIONS
AMINATION AND CONTROL	TEMPERATURE RANGE: RELATIVE HUMIDITY:	59°F—86°F (RECOMMENDED TEMPERATURE 72°F) 20% – 75% NON–CONDENSING
AGE SYSTEM (IS)	RELATIVE HUMIDITY: MAX. TEMP. GRADIENT:	509 CFM
DLYDOROS ENERATOR (PU1)	RELATIVE HUMIDITY: MAX. TEMP. GRADIENT:	94 ĆFM
'STEM CONTROL ABINET (SC1)	TEMPERATURE RANGE: RELATIVE HUMIDITY: MAX. TEMP. GRADIENT: AIR FLOW VOLUME: MAX. NOISE GENERATION:	59°F-86°F (RECOMMENDED TEMPERATURE 72°F) 20%-75% NON-CONDENSING 9° F/HR 300 CFM 55 dB(A)
JBE COOLING UNIT (CU1)	TEMPERATURE RANGE: RELATIVE HUMIDITY: AIR FLOW VOLUME: MAX. NOISE GENERATION:	41°F-86°F (RECOMMENDED TEMPERATURE 70°F) FROST FREE 559 CFM 59 dB(A)
) COOLING UNIT (CU3)	TEMPERATURE RANGE: RELATIVE HUMIDITY: MAX. NOISE GENERATION:	59°F-86°F (RECOMMENDED TEMPERATURE 72°F) 20% – 75% NON-CONDENSING 48 dB(A)
OOR STAND DBOTIC CABINET (RC)	TEMPERATURE RANGE: MAX. NOISE GENERATION:	
OOR STAND WITH AT DETECTOR (R1)	MAXIMUM TEMPERATURE G ATMOSPHERIC PRESSURE: SHOCKS: VIBRATIONS: MAX. NOISE GENERATION:	,



			PROJECT MANAGEF TEL: (417) 576 VMAIL: FAX: EMAIL: MARK.BUXT		HINEERS	5.COM		SIEMENS
			ST L	100 NE		LUKES BLVD,	LEES SUMMIT, MO PHENO SURGERY PI	
0	6/20/22	REMOVED INJECTOR PER SALES ORDER		PRODUCTION OF LOCK WITHOUT		JECT #:		SHEET:
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	DATE	DESCRIPTION	ALL RIGHTS A	RE RESERVED.	SHEET	OF 7 7	DRAWN BY: E. SANDIFER	
-ISSUE BLOCK-		E BLOCK-	SCALE: AS NOTED	REF. #: 30267218	DATE:	06/08/22		

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evelopment Services Department Lee's Summit, Missouri 08/04/2022

# ST. LUKES EAST HOSPITAL 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

PROJECT MANAGER: FRED SIMPSON FRED.SIMPSON@STRYKER.COM

ENGINEER: TRAVIS ZUBER TRAVIS.ZUBER@STRYKER.COM

# TABLE OF CONTENTS

REVISION SUMMARY
EQUIPMENT LAYOUTS
PRE-INSTALL NOTES

ENGINEERING APPROVAL AUTHORIZED SIGNATURE: DRAWING#: MO-1026094\_7 APPROVED REVISION:7 DISCLAIMER: THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY 417.693.4606 INFORMATION OF STRYKER. NEITHER THIS DOCUMENT NOR THE INFORMATION HEREIN MAY BE REPRODUCED, USED, OR DISCLOSED TO OR FOR THE BENEFIT OF ANY THIRD PARTY WITHOUT THE PRIOR WRITTEN CONSENT OF STRYKER. 573.772.0405 314.591.3166 .....(C) SHEET SECTION .....(R) SHEET SECTION .....(P) SHEET SECTION FINA



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Lee's Summit, Missou

REP: TRACEY WISTROM PM: FRED SIMPSON

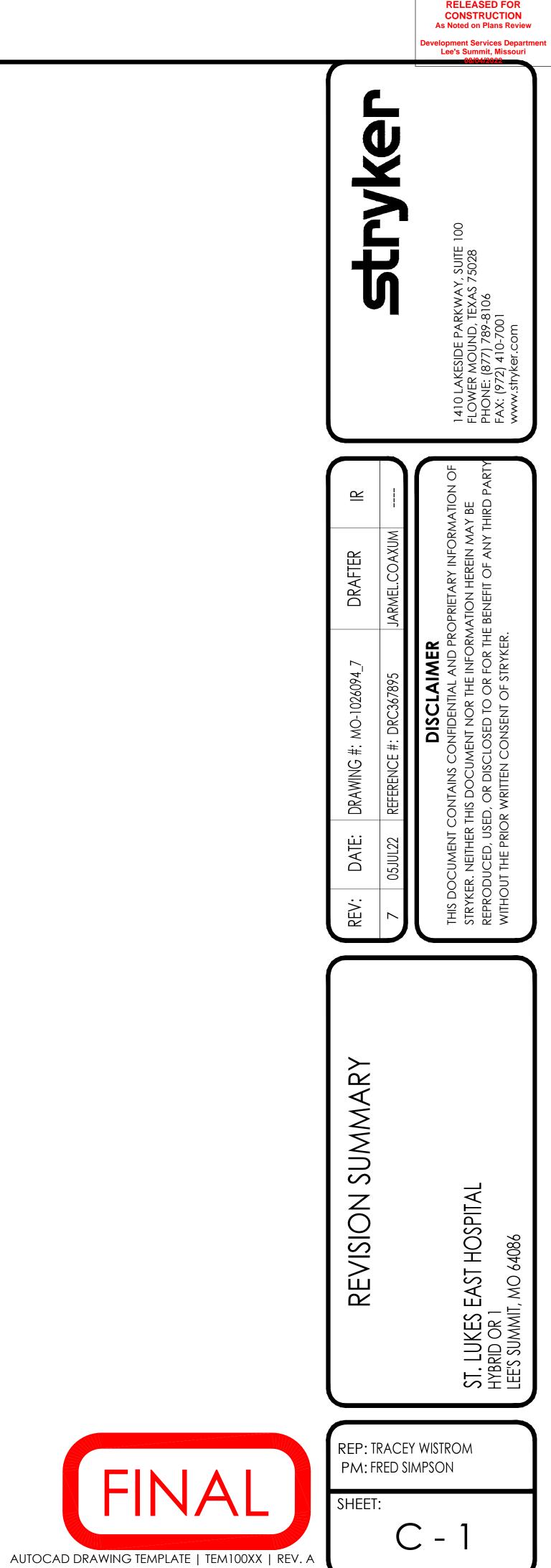
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SUMMARY LIST OF CHANGES					
KEY #	DESCRIPTION OF CHANGE	ROOM #			
1	CHANGED MOUNT "D" FROM POWERED TO FIXED BOOM	HYBRID OR			
2	ADDED LOCATION OF PTZ CAMERA TO WEST WALL	HYBRID OR			
3	Changed Light/Lead Shield arms from $\frac{1000}{900}$ to $\frac{1100}{1000}$ on mounts "F" and "F1"	HYBRID OR			
4	ADDED IN-LIGHT CAMERA TO MOUNT "F"	HYBRID OR			
5	Changed mount "e1" from anesthesia to utility boom	HYBRID OR			
6	ADDED CONDUIT FOR PTZ CAMERA TO CONDUIT SCHEDULE	HYBRID OR			
7	ADDED CONDUIT FOR "L-X" IN CONDUIT SCHEDULE	HYBRID OR			

DR 1



PLOT STAMP:COAXUM, JARMEL | DATE: 7/5/2022 2:21 PM

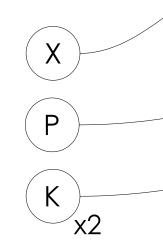
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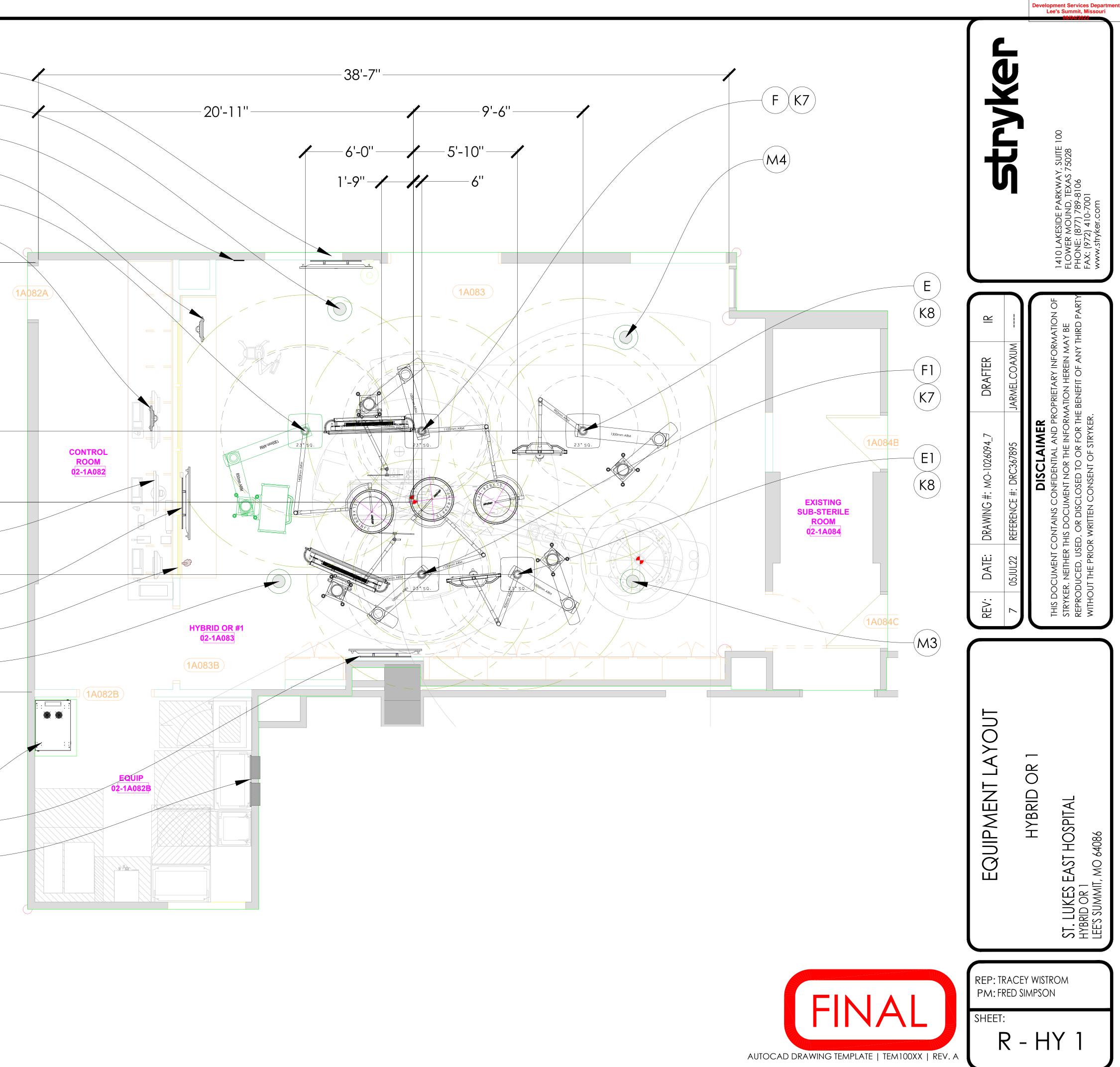
EQUIPMENT SCHEDULE					
KEY ITEM	NAME	QTY			
D	S-SERIES SFS-3-C EQUIPMENT BOOM 1300mm TOP ARM & 850mm BOTTOM ARM WITH 1400mm 628 NFC ARM	1			
Е	S-SERIES SPS-2-C ANESTHESIA BOOM 1300mm TOP ARM WITH 900mm UDM ARM	1			
E1	S-SERIES SPS-2-C UTILITY BOOM 1000mm TOP ARM WITH 900mm UDM ARM	1			
F	S-SERIES SPS-2-C 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			
1-M4	CEILING MOUNTED CIRCULAR SPEAKERS	4			
Ρ	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			
Х	COR IP RACK (ADJACENT)	1			

CONDUIT SCHEDULE CONDUIT RUN CONDUIT CONDUIT					
ITEM - ITEM	QTY	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 <u>1</u> ''			
L – X	1	1"			
M1 - M2	1	<u>3</u> 4			
M1 - X	1	<u>3</u> 4			
M3 - M4	1	<u>3</u> 4			
M3 - X	1	<u>3</u> 11 4			
P - X	1	$1 \frac{1}{4}$			
P1 - X	1	$1 \frac{1}{4}$			
P2 - X	1	$1 \frac{1}{4}$			
R - X	1	$1 \frac{1}{4}$			
U - X	3	1 <u>1</u> "			
* - NEAREST ELECTRICAL PANEL					

(M2) L (P2) D K7 (P1) 13'-5" Ō 4 4'-0"  $\left( \mathbf{U} \right)$ Ρ R 

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PLOT STAMP:COAXUM, JARMEL | DATE: 7/5/2022 2:21 PM

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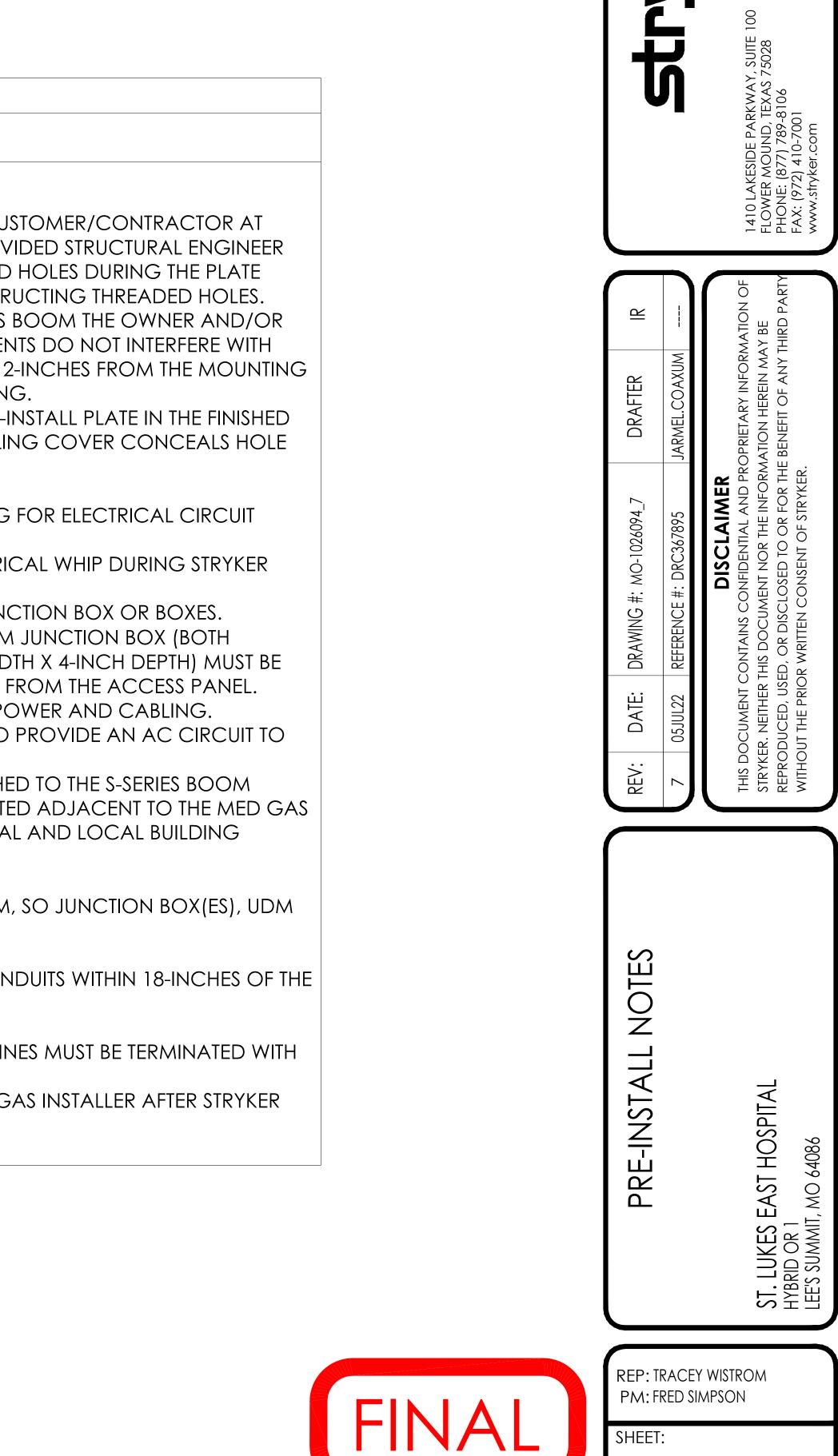
#### NOTES: (UNLESS OTHERWISE SPECIFIED)

- ALL CONDUIT RUNS INCLUDE INSULATED BUSHINGS AND PULL STRINGS. 1.
- CONDUIT RUNS CANNOT EXCEED 45' FROM END-TO-END. DO NOT EXCEED FOUR (4) 90 DEGREE BENDS. 2. CABLES BETWEEN ITEMS OVER 45 FEET IN LENGTH ARE PROVIDED BY THE CUSTOMER / CONTRACTOR. PLEASE 3.
- **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		PRE-INSTALL NOTES SCHEDULE
( /	NAME	KEY ITEM	NAME
<b>/</b> \	S-SERIES TC BOOM WITH LIGHT	E	S-SERIES TC BOOM WITH UDM
	S-SERIES TC BOOM WITH LIGHT/LEAD SHIELD	Ē1	STRUCTURAL:
	STRUCTURAL:		- STRYKER COMMON PRE-INSTALL PLATE SHALL BE INSTALLED BY CUS
	- STRYKER COMMON PRE-INSTALL PLATE SHALL BE INSTALLED BY CUSTOMER/CONTRACTOR AT		$3$ -INCH, $\pm$ .25-INCH ABOVE FINISHED CEILING PER CUSTOMER PROVI
	3-INCH, ± .25-INCH ABOVE FINISHED CEILING PER CUSTOMER PROVIDED STRUCTURAL ENGINEER		SPECS. CONTRACTOR IS RESPONSIBLE FOR PROTECTING THREADED
	SPECS. CONTRACTOR IS RESPONSIBLE FOR PROTECTING THREADED HOLES DURING THE PLATE		WELDING/INSTALLATION PROCESS, TO PREVENT SLAG FROM OBSTRU
	WELDING/INSTALLATION PROCESS, TO PREVENT SLAG FROM OBSTRUCTING THREADED HOLES.		- TO ENSURE ADEQUATE ROOM FOR INSTALLATION OF THE S-SERIES E
	- TO ENSURE ADEQUATE ROOM FOR INSTALLATION OF THE S-SERIES BOOM THE OWNER AND/OR		CONTRACTOR MUST ENSURE THAT STRUCTURAL/UTILITY COMPONEN
	CONTRACTOR MUST ENSURE THAT STRUCTURAL/UTILITY COMPONENTS DO NOT INTERFERE WITH		ANY PART OF THE S-SERIES BOOM. THIS "NO-FLY" ZONE EXTENDS 12
	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
	PLATE ON ALL SIDES, AND 16-INCHES UP FROM THE FINISHED CEILING.		- REQUIRED: A 21-INCH SQUARE HOLE CENTERED ON STRYKER PRE-II
	- REQUIRED: A 21-INCH SQUARE HOLE CENTERED ON STRYKER PRE-INSTALL PLATE IN THE FINISHED		CEILING IS REQUIRED FOR INSTALLATION. A 23-INCH SQUARE CEILIN
	CEILING IS REQUIRED FOR INSTALLATION. A 23-INCH SQUARE CEILING COVER CONCEALS HOLE		AFTER BOOM IS INSTALLED
	AFTER BOOM IS INSTALLED		POWER:
	POWER:		- REFER TO S-SERIES MANUFACTURING SERVICE MODULE DRAWING
	- REFER TO S-SERIES MANUFACTURING SERVICE MODULE DRAWING FOR ELECTRICAL CIRCUIT		COUNT.
	COUNT.		- THE CONTRACTOR / ELECTRICIAN TO HARDWIRE STRYKER ELECTRIC
	- THE CONTRACTOR / ELECTRICIAN TO HARDWIRE STRYKER ELECTRICAL WHIP DURING STRYKER		INSTALLATION.
	INSTALLATION.		- ALL ELECTRICAL CIRCUITS SHALL BE CONNECTED TO S-SERIES JUNC
	- ALL ELECTRICAL CIRCUITS SHALL BE CONNECTED TO S-SERIES JUNCTION BOX OR BOXES.		- TWO SEPARATE JUNCTION BOXES: A TC JUNCTION BOX AND UDM
	- THE S-SERIES JUNCTION BOX (7.4" x 3.5" x 3.74") ARRIVES ATTACHED TO THE S-SERIES BOOM		SUPPLIED BY STRYKER AND MEASURE 10-INCH HEIGHT X 8-INCH WID
	FLANGE BY A GROUND WIRE. THE JUNCTION BOX MUST BE MOUNTED ADJACENT TO THE MED GAS		MOUNTED WITHIN 18-INCHES OF BOOM MOUNT AND ACCESSIBLE F
	LINES BY THE CUSTOMER/CONTRACTOR ACCORDING TO NATIONAL AND LOCAL BUILDING		THESE ARE MOUNTED BY AN ELECTRICIAN AND IS REQURIED FOR PC
	CODES.		- IF UDM MONITOR IS POWERED VIA AC POWER, CONTRACTOR TO
	- A SEPARATE TC JUNCTION BOX (SUPPLIED BY STRYKER) MUST BE MOUNTED WITHIN 3-FEET OF		THE AC TERMINAL BLOCK IN THE TC JUNCTION BOX.
	BOOM MOUNT.AND ACCESSIBLE FROM THE ACCESS PANEL. THIS IS MOUNTED BY AN ELECTRICIAN		- THE S-SERIES JUNCTION BOX (7.4" x 3.5" x 3.74") ARRIVES ATTACHE
	AND IS REQURIED FOR SURGICAL LIGHT POWER.		FLANGE BY A GROUND WIRE. THE JUNCTION BOX MUST BE MOUNTE
	REQUIRED ACCESS PANEL:		LINES BY THE CUSTOMER/CONTRACTOR ACCORDING TO NATIONA
	- ONE (1) 24-INCH X 24-INCH ACCESS PANEL ADJACENT TO BOOM, SO JUNCTION BOXES, TC		CODES.
	JUNCTION BOX AND MED GAS LINES CAN BE EASILY ACCESSED.		REQUIRED ACCESS PANEL:
	CONDUIT:		- ONE (1) 24-INCH X 24-INCH ACCESS PANEL ADJACENT TO BOOM,
	- REFER TO ROOM LAYOUT FOR CONDUIT SIZE. TERMINATE ALL CONDUITS WITHIN 18-INCHES OF THE		JB AND MED GAS LINES CAN BE EASILY ACCESSED.
	CENTER OF THE CEILING MOUNT.		CONDUIT:
	PLUMBING:		- REFER TO ROOM LAYOUT FOR CONDUIT SIZE. TERMINATE ALL CON
	- INSTALL VALVE BRIDGE TO TOP OF PRE-INSTALL PLATE. ALL GAS LINES MUST BE TERMINATED WITH		CENTER OF THE CEILING MOUNT.
	STRYKER SUPPLIED GAS RISERS BY CUSTOMER/MEDGAS INSTALLER.		PLUMBING:
	- ALL FINAL DISS CONNECTIONS TO BE MADE BY CUSTOMER/MEDGAS INSTALLER AFTER STRYKER		- INSTALL VALVE BRIDGE TO TOP OF PRE-INSTALL PLATE. ALL GAS LIN
	INSTALLATION.		STRYKER SUPPLIED GAS RISERS BY CUSTOMER/MEDGAS INSTALLER.
	(REV A)		- ALL FINAL DISS CONNECTIONS TO BE MADE BY CUSTOMER/MEDG/
			INSTALLATION.
			(REV A)



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PLOT STAMP:COAXUM, JARMEL | DATE: 7/5/2022 2:21 PM

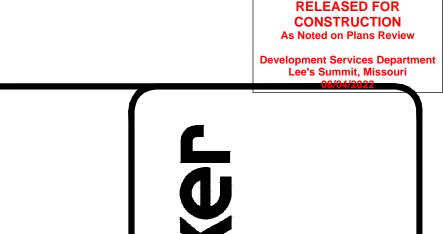
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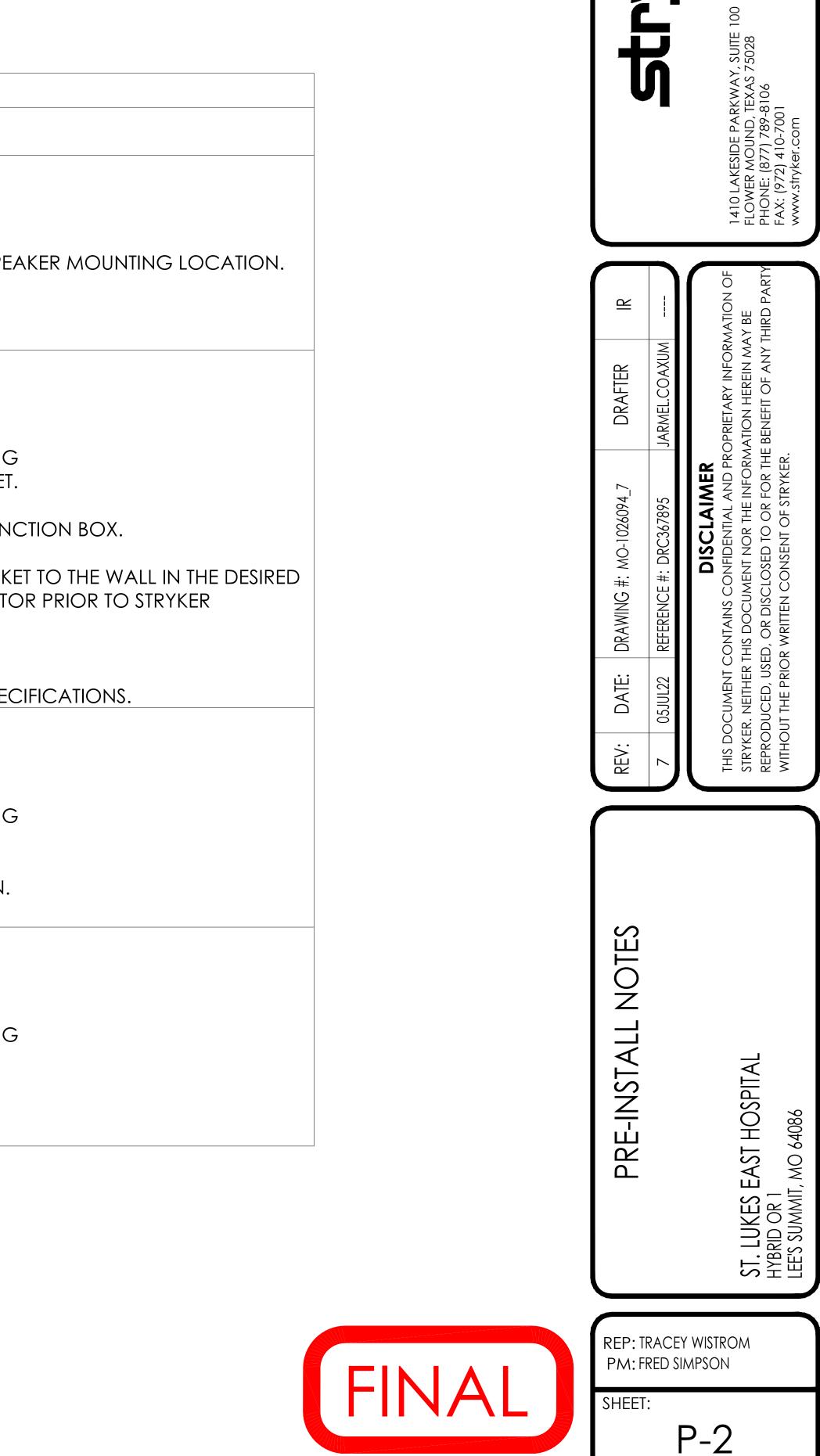
P-1

#### 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		PRE-INSTALL NOTES SCHEDULE
KEY ITEM	NAME	KEY ITEM	NAME
	CHROMOPHARE SK BOX (RECESSED) ENCLOSURE DIMENSIONS/MOUNTING: - 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 REAME - 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 CONDUT: - 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"" BETWEEN LIGHT MOUNTING LOCATIONS, - ONE (1) 1"" FOR MAINS 120VAC TO SK ENCLOSURE (UP TO TWO(2)) LIGHTS PER CIRCUIT). POWER: - 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 - 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 - 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		<ul> <li>FLUSH MOUNTED CIRCULAR CEILING SPEAKERS CONDUIT: <ul> <li>REFER TO ROOM LAYOUT FOR CONDUIT QUANTITY AND SIZE</li> <li>STRUCTURAL:</li> <li>CUSTOMER/CONTRACTOR TO CUT ONE 10 <sup>3</sup>/<sub>4</sub>" DIA. CIRCLE AT SPEA</li> <li>OUTER DIA. DIMENSION IS 13.4"</li> <li>PROVIDE 5" MINIMUM CEILING CLEARANCE.</li> <li>(REV A)</li> </ul> </li> <li>55" WALL MONITOR CONDUIT: <ul> <li>REFER TO ROOM LAYOUT FOR CONDUIT QUANTITY AND SIZE</li> <li>BACK BOX: <ul> <li>ONE (1) 4"W X 4"H JUNCTION BOX WITH SINGLE-GANG MUD RING</li> <li>MOUNTED DIRECTLY ABOVE THE TOP OF THE MOUNTING BRACKET.</li> <li>POWER: <ul> <li>ONE (1) STANDARD DUPLEX OUTLET MOUNTED ADJACENT TO JUNC</li> </ul> </li> <li>STRUCTURAL: <ul> <li>CUSTOMER/CONTRACTOR TO MOUNT STRYKER PROVIDED BRACKET</li> <li>POWER:</li> <li>ONE (1) STANDARD DUPLEX OUTLET MOUNTED ADJACENT TO JUNC</li> <li>STRUCTURAL: </li> <li>CUSTOMER/CONTRACTOR TO MOUNT STRYKER PROVIDED BRACKET</li> <li>LOCATION WITH PROPER REINFORCEMENT TO SUPPORT THE MONITO</li> <li>INSTALLATION.</li> <li>DIMENSIONS: 48.8" x 28.1"" x 2.7""</li> <li>STRYKER-PROVIDED WALL BRACKET DEPTH: 2.7""</li> <li>NOTE: STRYKER PROJECT MANAGER WILL PROVIDE MOUNTING SPEC</li> <li>COR IP TOUCHPANEL (PRIMARY)</li> <li>CONDUIT: <ul> <li>REFER TO ROOM LAYOUT FOR CONDUIT QUANTITY AND SIZE</li> <li>BACK BOX:</li> <li>ONE (1) 4"W X 4"H JUNCTION BOX WITH SINGLE-GANG MUD RING</li> <li>MOUNT J-BOX WITHIN 18" OF TOUCH PANEL LOCATION</li> <li>POWER:</li> <li>TWO (2) QUAD OUTLETS WITHIN 18" OF TOUCH PANEL LOCATION.</li> </ul> </li> </ul></li></ul></li></ul></li></ul>
	- CONTRACTOR IS RESPONSIBLE FOR MAKING BOTH AC AND DC CONNECTIONS IN THE SK ENCLOSURE''	P2	COR IP TOUCHPANEL (SECONDARY) CONDUIT:
K7 L	TC LIGHT JUNCTION BOX         IS TO BE MOUNTED WITHIN 3FT OF BOOM MOUNT AND ACCESSABLE FROM THE ACCESS PANEL.         - 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)         CHROMOPHARE WALL CONTROL PLATE (RECESSED)         CONDUIT: ONE (1) 1" CONDUIT WITH FINISH GROMMETS TO SK ENCLOSURE OR ON TUBE         ELECTRONICS.         BACK BOX: NONE. WALL CONTROL RECEIVES CONDUIT.         POWER: NONE		<ul> <li>- REFER TO ROOM LAYOUT FOR CONDUIT QUANTITY AND SIZE BACK BOX:</li> <li>- ONE (1) 4"W X 4"H JUNCTION BOX WITH SINGLE-GANG MUD RING</li> <li>- MOUNT J-BOX WITHIN 18" OF TOUCH PANEL LOCATION POWER:</li> <li>- ONE (1) QUAD OUTLET WITHIN 18" OF TOUCH PANEL LOCATION. (Rev A)</li> </ul>





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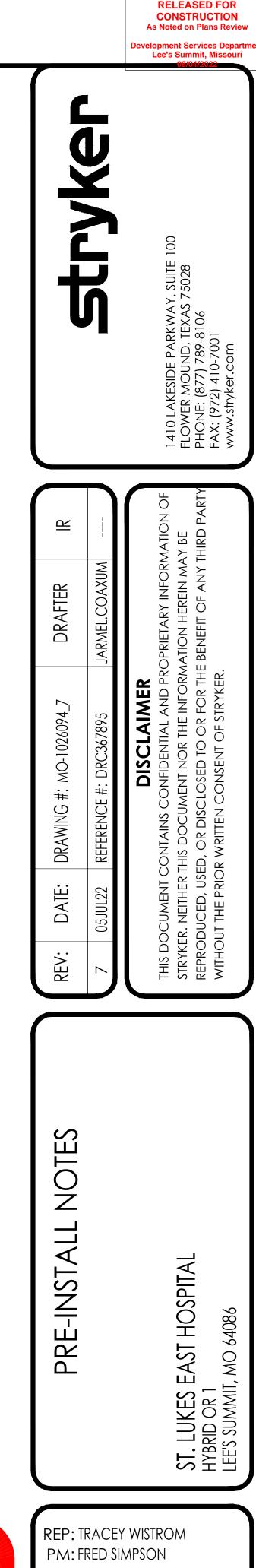
#### NOTES: (UNLESS OTHERWISE SPECIFIED)

- 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.**
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## PRE-INSTALL NOTES SCHEDULE

KEY ITEM	NAME
R	WALL MOUNTED HD PTZ CAMERA CONDUIT: REFER TO ROOM LAYOUT FOR CONDUIT QUANTITY AND SIZE 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 DATA: - ADD SINGLE DATA PLATE WITHIN 6"" OF PTZ MOUNT POWER: NONE STRUCTURAL: - CUSTOMER/CONTRACTOR TO MOUNT STRYKER PROVIDED BRACKET TO THE WALL IN THE DESIR LOCATION WITH PROPER REINFORCEMENT TO HD PAN/TILT/ZOOM CAMERA PRIOR TO STRYKER INSTALLATION.
Χ	(REV A) <b>COR IP ADJACENT RACK (CUSTOMER PROVIDED)</b> CONNECTED OR IP SYSTEM (<65' from OR) THE BELOW COUNTS ARE PER OR SPACE REQUIREMENTS: - CUSTOMER-SUPPLIED FOUR POST, 19'' RACK, 29''' Depth - MUST ACCOMMODATE UP TO 24RU PER ROOM. SPECIFIC RU REQUIREMENT CAN BE CONFIRM BY STRYKER ENGINEERING. DATA: TWO (2) ETHERNET CONNECTIONS BACKBOX: N/A NOTE: ALL CONDUITS CONSOLIDATED TO THE RACK LOCATION WITHIN THE A/V CLOSET 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)

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