# ABBREVIATIONS

AC. ADD. ADD'N. ABC AFF AGG.	ACOUSTIC/ACOUSTICAL ADDENDUM ADDITION AGGREGATE BASE COURSE ABOVE FINISH FLOOR AGGREGATE	FLOR. FTG. FND. FR. F.H.C. FV.
A.B. &	AIR CONDITIONING ALUMINUM ALTERNATE ANCHOR BOLT AND	GA. GL. GD. G.
ARCH. ASP. @ ACT &	ARCHITECT ASPHALT AT ACOUSTIC CEILING TILE/PANEL ANGLE	GRL. GRD. GND. G.S. GYP.
	BLOCKING	GWB/0
BSMT.	BASEMENT	H.R. HDN.
BM. B.M.	BEAM BENCHMARK	HDW.
BD.	BOARD	HDWD
B.O. BLDG.	BOTTOM OF BUILDING	HTR. HT.
DEDO.	BOILDING	H.P.
	CABINET	H.M.
C.I.P. C.B.	CAST IN PLACE CATCH BASIN	HORIZ H.B.
CLG.	CEILING	H.W.
CEM.	CEMENT/CEMENTITIOUS	
CG. CM	CENTIGRAM CENTIMETER	IN. I.D.
CL.	CENTER LINE	INSUL
CER.	CERAMIC	INT.
C.T. CHAN.	CERAMIC TILE CHANNEL	INV.
	CHANNEL	JAN.
CLR.	CLEAR	JT. JST.
C.O. CLOS.	CLEAN OUT CLOSET	001.
COL.	COLUMN	K.P.
	CONCRETE	LAM.
	CONNECTION CONSTRUCTION	LB.
C.J.	CONTROL JOINT	LDG. LTH.
CONT.	CONSTRUCTION JOINT CONTINUOUS	LIH. LAV.
	CONTRACTOR	LG.
	CORRUGATED	LOC. LT.
CTR. CTSK.	COUNTER COUNTERSUNK	L.W.C.
	CONCRETE MASONRY UNIT	LVR. LOC.
D.P.	DAMP PROOFING	200.
D.F. DB.	DECIBEL	М.О.
DIAG.	DIAGONAL	MAT'L. MFR.
DIAM. DIM.	DIAMETER DIMENSION	MB.
DISP.	DISPENSER	MAX. MECH
DWL.	DOWEL	MTL.
DN. D.S.	DOWN DOWNSPOUT	M.L.
DWG.	DRAWING	M. MIN.
		MLDG.
EA.	EACH	MULL.
	ELECTRIC ELECTRIC WATER COOLER	N.G.
EL.	ELEVATION	NOM.
	ELEVATOR	N.I.C.
EQ. EQUIP.	EQUAL EQUIPMENT	N.T.S. NO. / #
EXH.	EXHAUST	INU. / #
	EXPANSION	OBS.
E.J. EXIST.	EXPANSION JOINT EXISTING	0вз. 0.С.
	EXTERIOR	OPN'G
		0.A. 0.D.
FT.	FEET / FOOT	0.D. 0.F.S.
FIN. FIXT.	FINISH FIXTURE	O.F.D.
FIXT. FI	FIATURE	O.H.D.

F.D. FLOOR DRAIN

FL. FLASHING

FLR. FLOOR

FLOR. FLUORESCENT FTG. FOOTING FND. FOUNDATION FR. FRAME F.H.C. FIRE HOSE CAB. FIELD VERIFY

GAUGE

MTL.

MLDG.

GLASS / GLAZING GRADE GRAM GRILLE GRID GND. GROUND GALVANIZED STEEL GYPSUM GWB/G.B. GYPSUM BOARD

HAND RAIL HARDENER HARDWARE HDWD. HARDWOOD HEATER HEIGHT HIGH POINT

H.M. HOLLOW METAI HORIZ. HORIZONTAL H.B. HOSE BIB H.W. HOT WATER INCH / INCHES

INSIDE DIAMETER INSUL. INSULATION INTERIOR INVERT

JAN. JANITOR JOINT JOIST JST. K.P.

KICK PLATE LAMINATE POUND LANDING LATH LAVATORY LENGTH LOCATION

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

> MATERIAL MANUFACTURER MARKER BOARD MAXIMUM MECHANICAL METAL METAL LATH METER MINIMUM

MULL. MULLION N.G. NATURAL GRADE NOM. NOMINAL N.I.C. NOT IN CONTRACT N.T.S. NOT TO SCALE

NO. / # NUMBER

MOLDING

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

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

RISER, RISERS RAD. RADIUS R.D. ROOF DRAIN RESILIENT BASE REFER TO REGISTER RFG REQ'D. REQUIRED REV. REVISION RF'G. ROOFING RGH. ROUGH RM. ROOM RND. ROUND R.O. ROUGH OPENING

R.

RB.

SCHED. SCHEDULE S.C. SEALED CONCRETE SCR. SCREW SECT. SECTION SELECT SEL. SHG. SHEATHING SHT. SHEET SDG. SIDING SIM. SIMILAR SLDG. SLIDING SMOOTH SPEC. SPECIFICATION SQ. SQUARE STAINED

STD. STANDARD S.S. / ST.STL. STAINLESS STEE 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 VENT V.

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



# GE Saint Luke's East Hospital

**Rockhill Orthopedics X-Ray Renovations** 120 NE Saint Luke's Blvd, Suite 200 Lee's Summit, MO 64086

# **ROCKHILL X-RAY RENOVATION**

### ARCHITECT ACI BOLAND, INC.

1710 WYANDOTTE STREET KANSAS CITY, MO 64108 PHONE 816.763.9600 816.763.9757 FAX

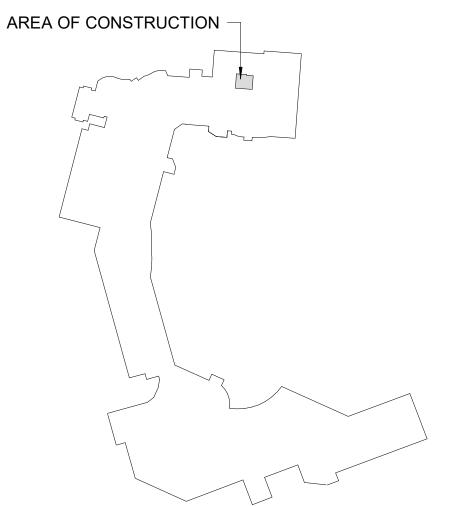
### **ENGINEER** IMEG Corp.

1600 BALTIMORE SUITE 300

KANSAS CITY, MO 64108 PHONE 816.842.8437

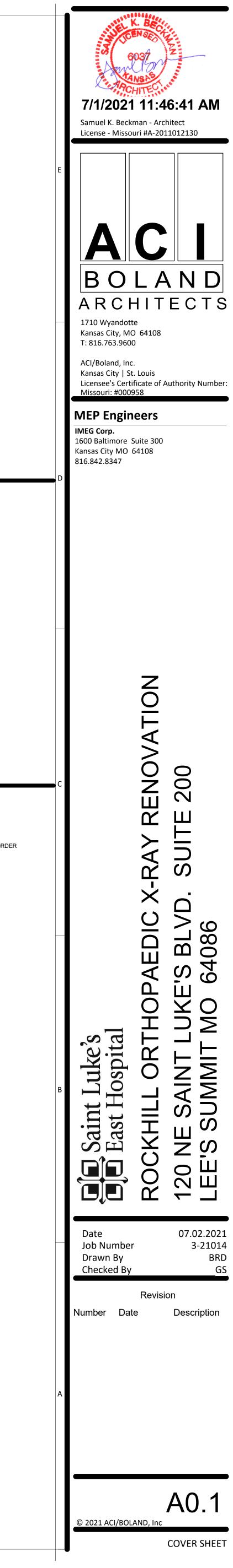
# LOCATION PLAN

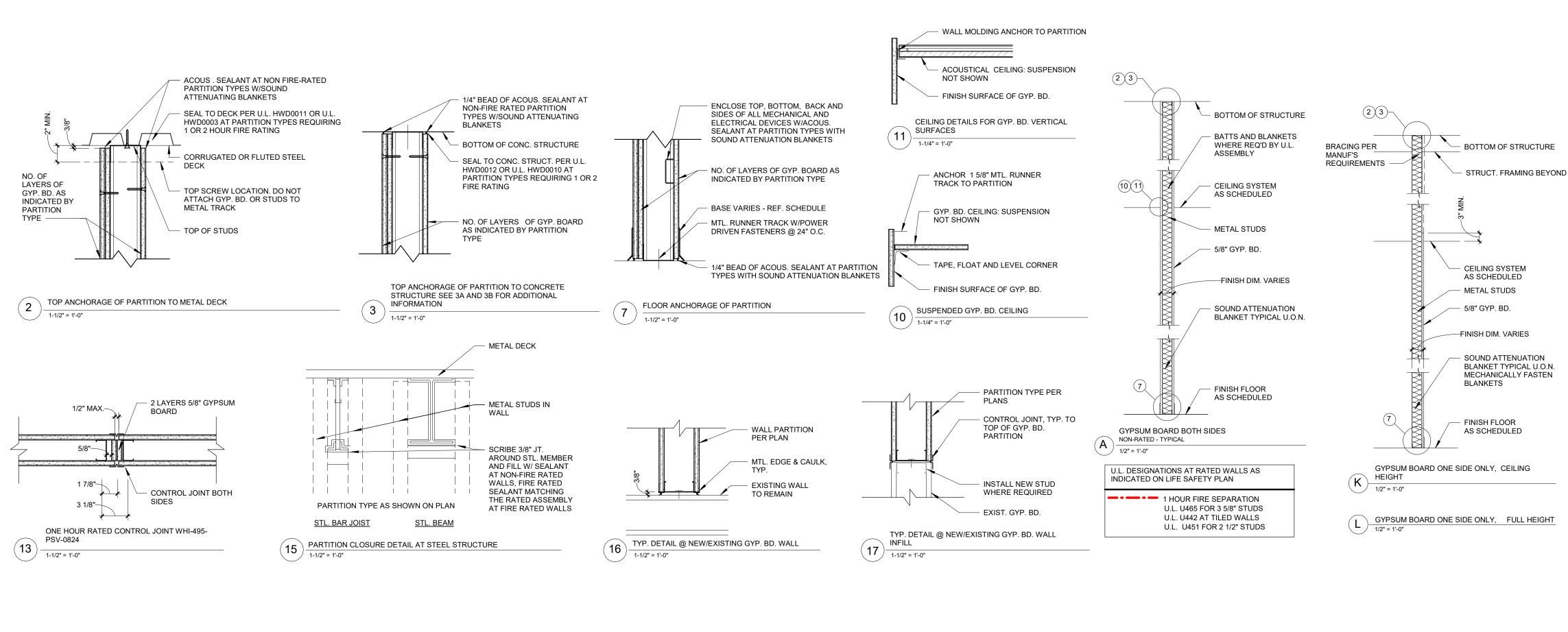
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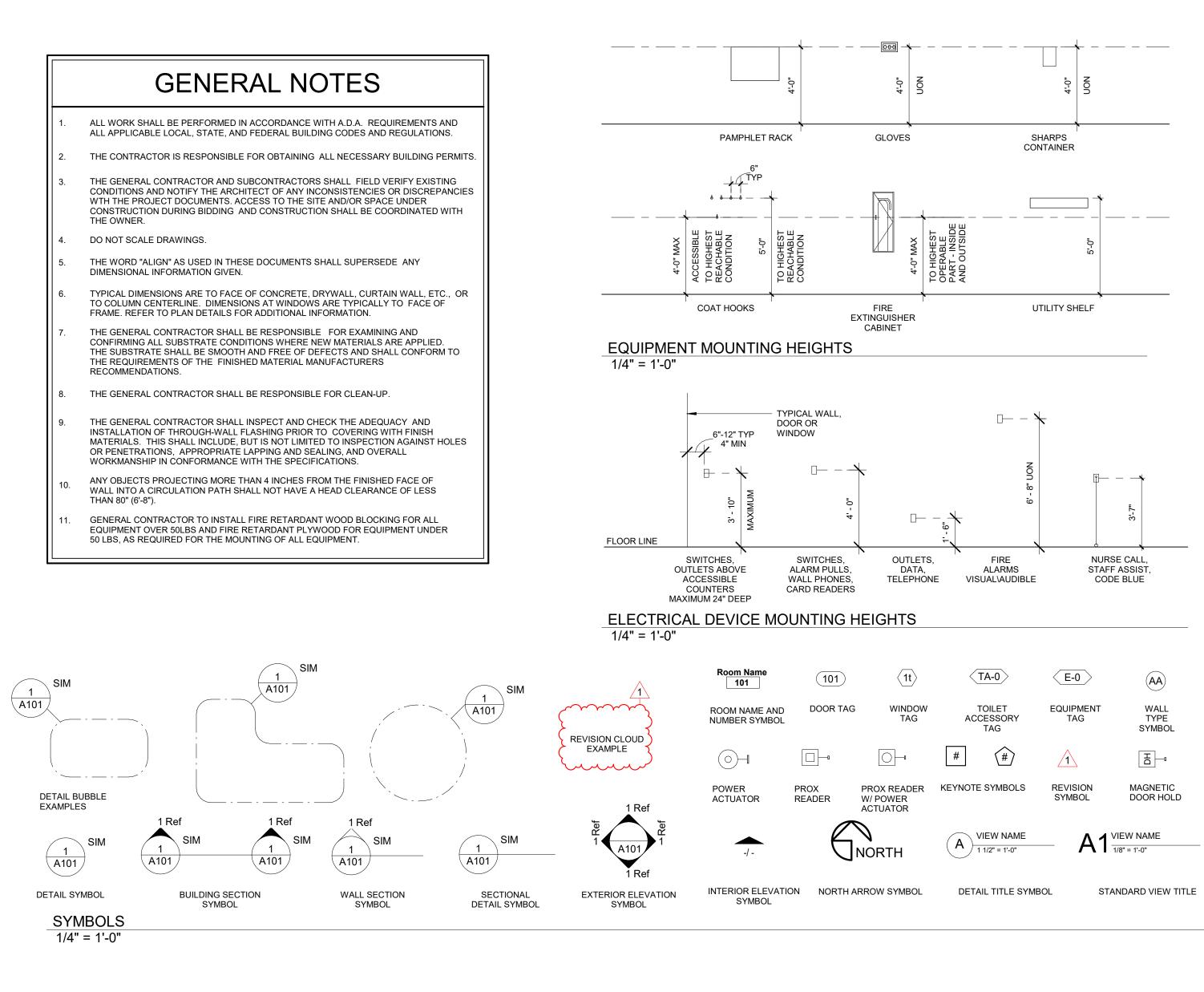


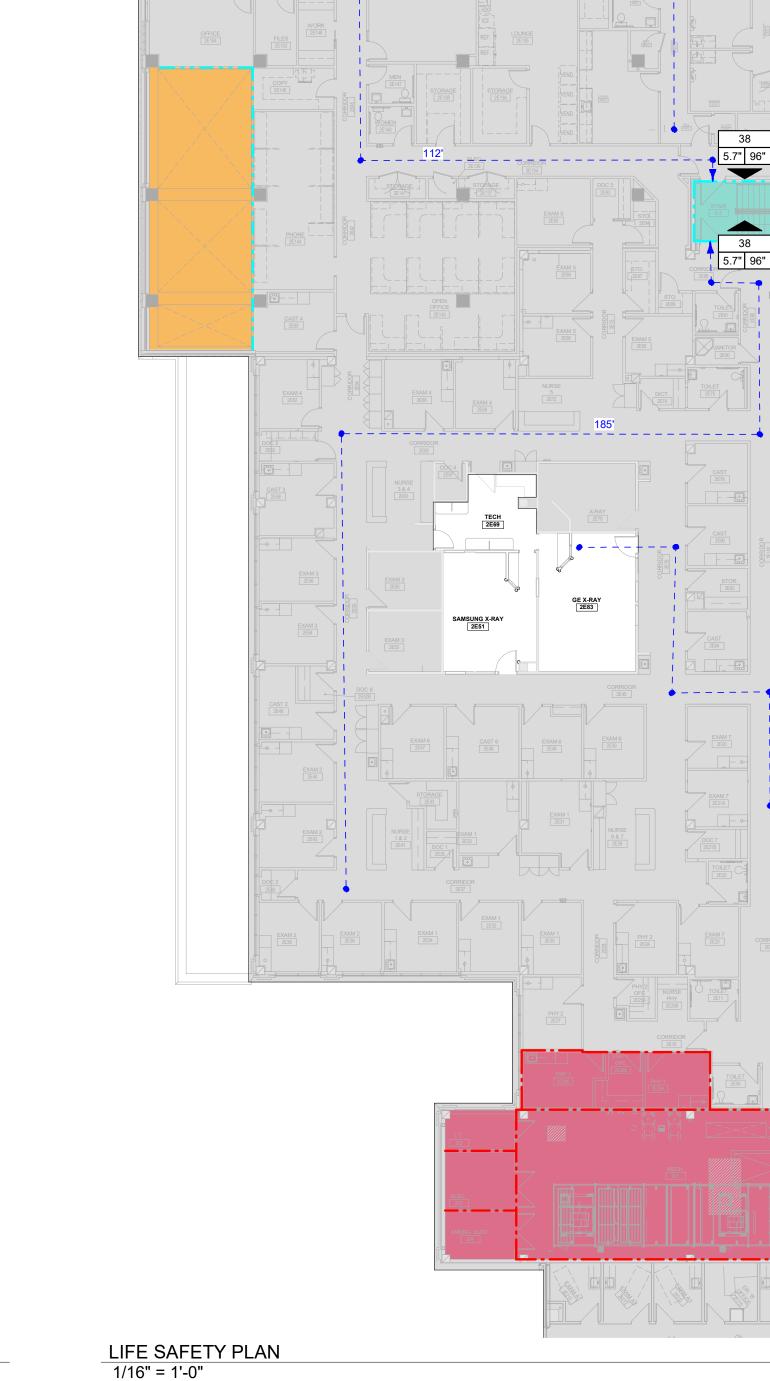
#### **GENERAL NOTES** ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH A.D.A. REQUIREMENTS AND ALL APPLICABLE LOCAL, STATE, AND FEDERAL BUILDING CODES AND REGULATIONS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY BUILDING PERMIT THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL FIELD VERIFY EXISTING CONDITIONS AND NOTIFY THE ARCHITECT OF ANY INCONSISTENCIES OR DISCREPANCIES WTH THE PROJECT DOCUMENTS. ACCESS TO THE SITE AND/OR SPACE UNDER CONSTRUCTION DURING BIDDING AND CONSTRUCTION SHALL BE COORDINATED WITH THE OWNER. DO NOT SCALE DRAWINGS. THE WORD "ALIGN" AS USED IN THESE DOCUMENTS SHALL SUPERSEDE ANY DIMENSIONAL INFORMATION GIVEN. TYPICAL DIMENSIONS ARE TO FACE OF CONCRETE, DRYWALL, CURTAIN WALL, ETC., OR TO COLUMN CENTERLINE. DIMENSIONS AT WINDOWS ARE TYPICALLY TO FACE OF FRAME. REFER TO PLAN DETAILS FOR ADDITIONAL INFORMATION. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR EXAMINING AND CONFIRMING ALL SUBSTRATE CONDITIONS WHERE NEW MATERIALS ARE APPLIED. THE SUBSTRATE SHALL BE SMOOTH AND FREE OF DEFECTS AND SHALL CONFORM TO THE REQUIREMENTS OF THE FINISHED MATERIAL MANUFACTURERS RECOMMENDATIONS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN-UP. THE GENERAL CONTRACTOR SHALL INSPECT AND CHECK THE ADEQUACY AND INSTALLATION OF THROUGH-WALL FLASHING PRIOR TO COVERING WITH FINISH MATERIALS. THIS SHALL INCLUDE, BUT IS NOT LIMITED TO INSPECTION AGAINST HOLES OR PENETRATIONS, APPROPRIATE LAPPING AND SEALING, AND OVERALL WORKMANSHIP IN CONFORMANCE WITH THE SPECIFICATIONS. ANY OBJECTS PROJECTING MORE THAN 4 INCHES FROM THE FINISHED FACE OF WALL INTO A CIRCULATION PATH SHALL NOT HAVE A HEAD CLEARANCE OF LESS THAN 80" (6'-8"). GENERAL CONTRACTOR TO INSTALL FIRE RETARDANT WOOD BLOCKING FOR ALL EQUIPMENT OVER 50LBS AND FIRE RETARDANT PLYWOOD FOR EQUIPMENT UNDER 50 LBS, AS REQUIRED FOR THE MOUNTING OF ALL EQUIPMENT.

	SHEET IN	DEX		
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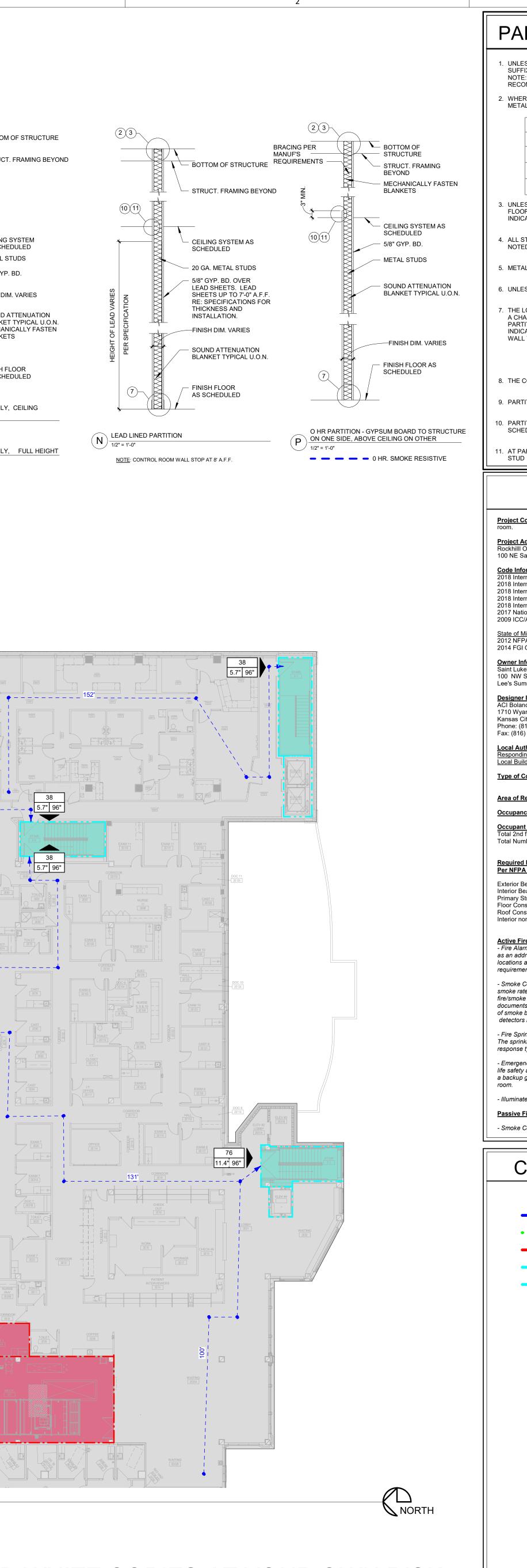


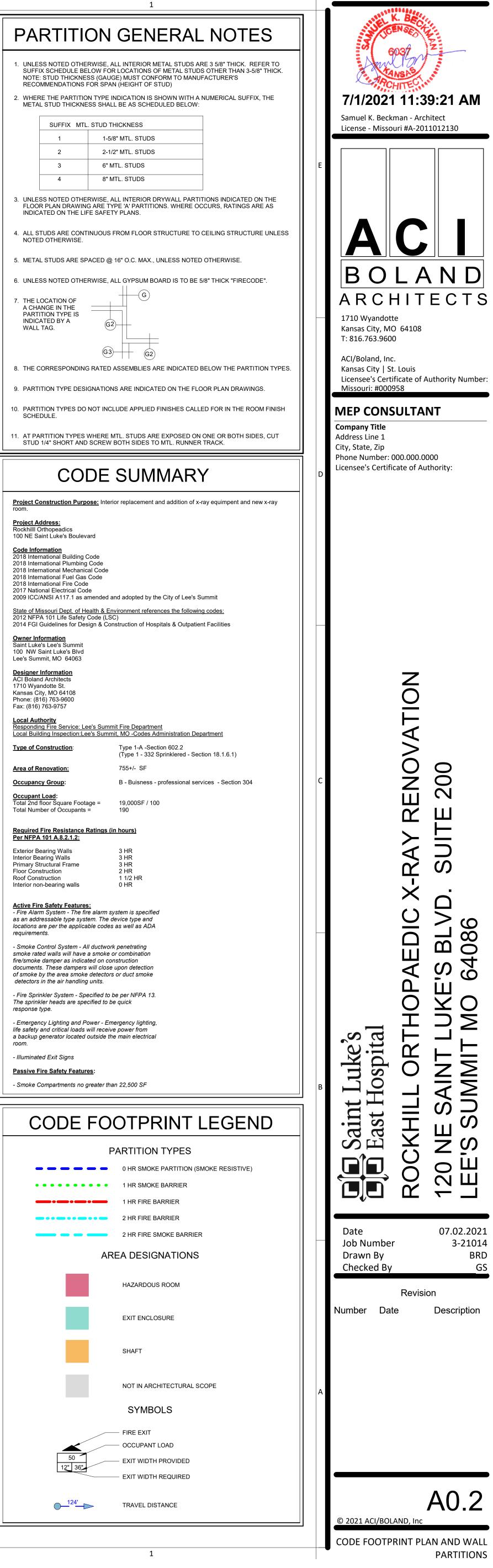


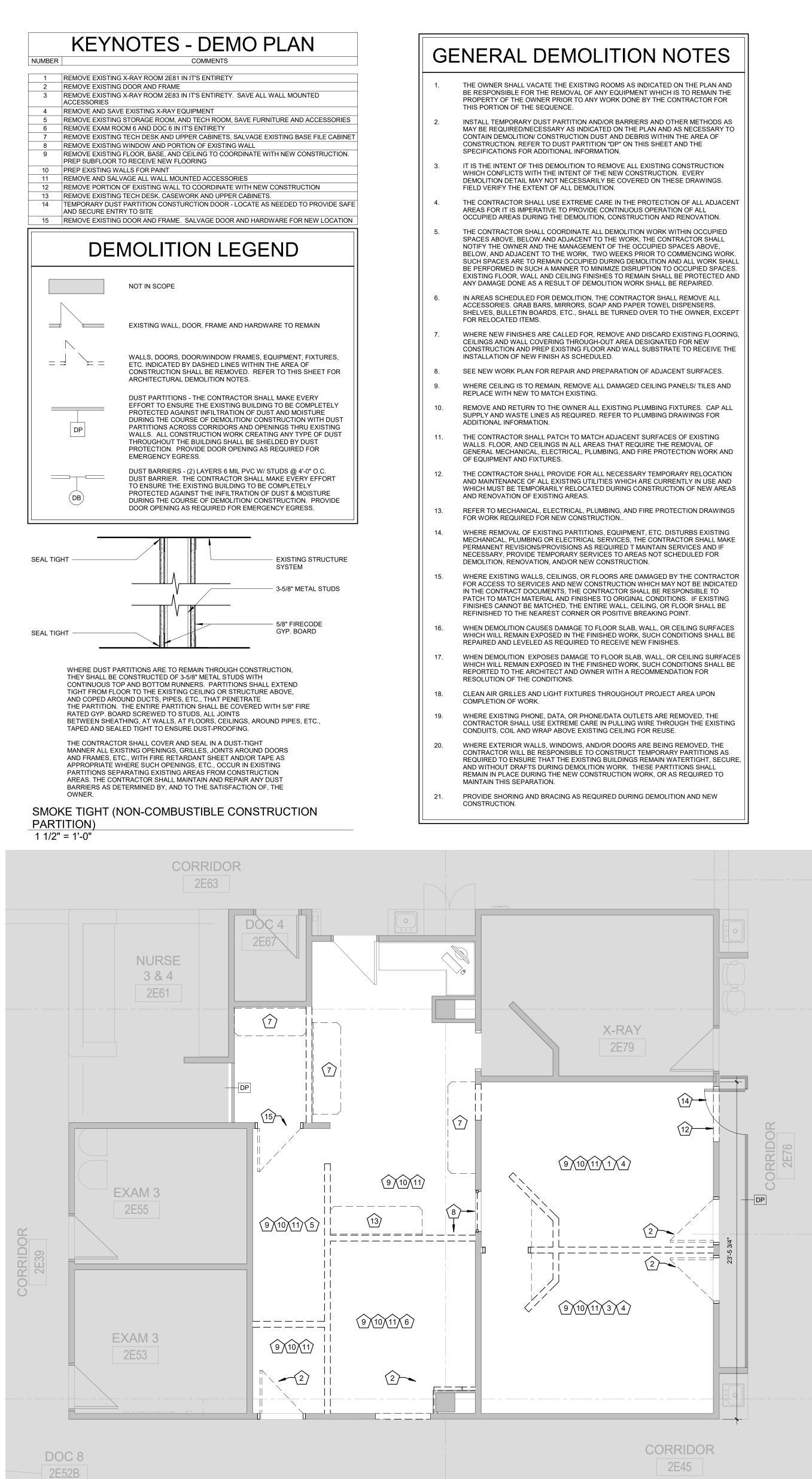




\*THIS DRAWING IS INTENDED TO BE PRINTED IN COLOR. USE BLACK AND WHITE COPIES AT YOUR OWN RISK.







# A4 DEMO FLOOR PLAN 1/4" = 1'-0"

NORTH

4

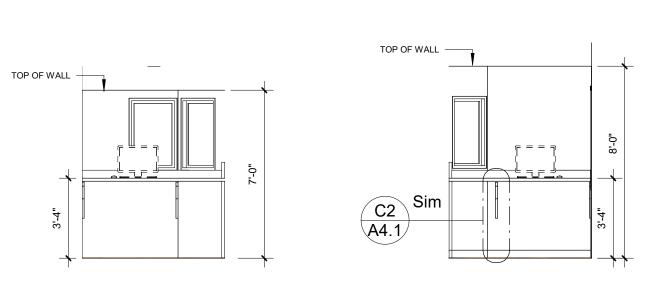
# A2 SECOND FLOOR PLAN 1/4" = 1'-0"

#### DÓC NURSE 3 & 4 2E61 TECH 2E69 ◶∟∟ ᠵ<u>ᠵ</u>ᢓᢖᢖ (N)( **N** ) → 1 EXAM 3 2E55 2'-0 1/2" 3'-0" 10'-5 1/2" SAMSUNG X-RAY 2E51 6 - 6 -| 9 |--EXAM 3 2E53 N 11 DOC 8 2F52B

CORRIDOR

2E63

## C3 X-RAY 1 CONTROL 1/4" = 1'-0"

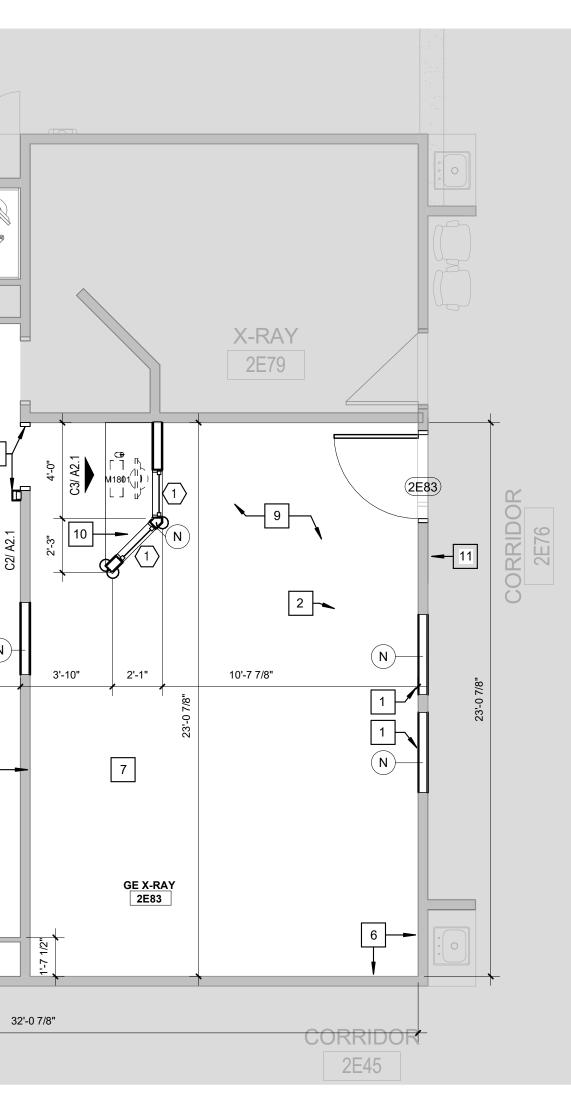


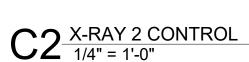
## D3 REFLECTED CEILING PLAN 1/4" = 1'-0"



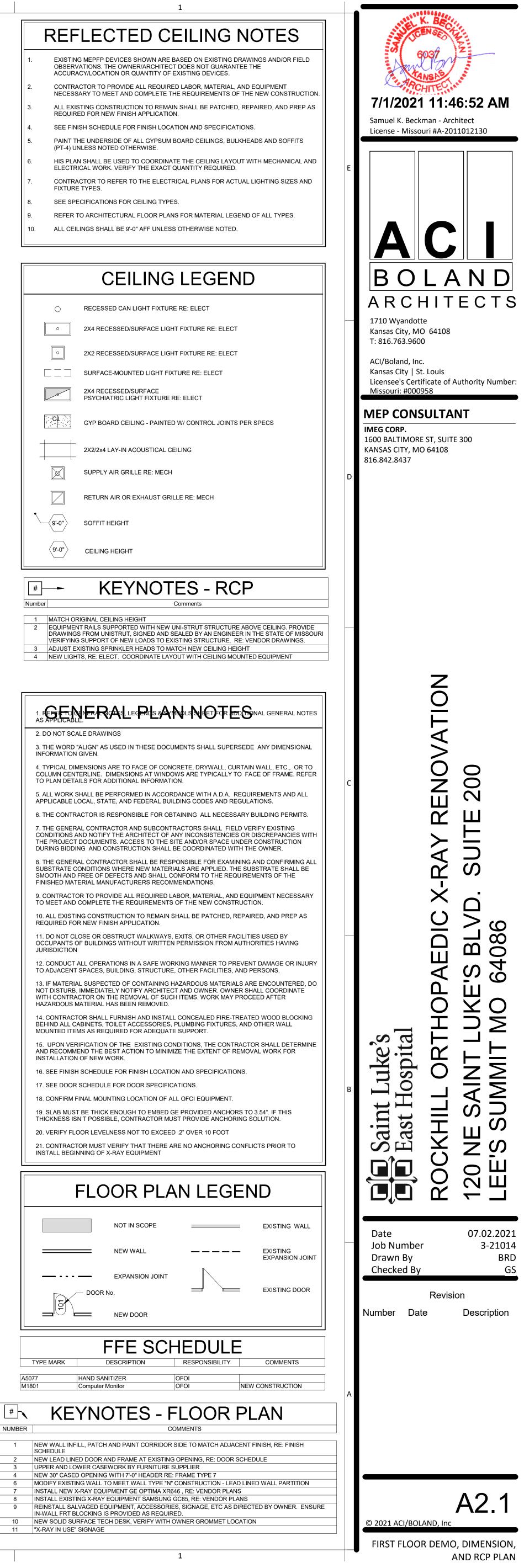


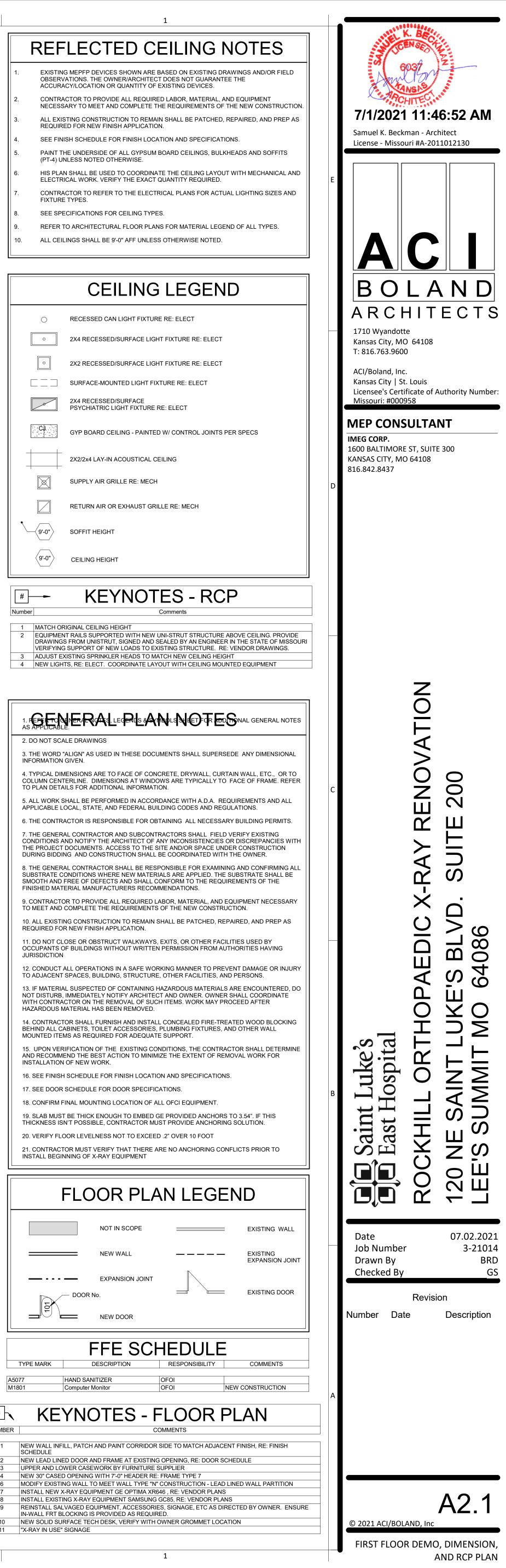
 $\square$ **NORTH** 





 $\bigwedge$ NORTH





### GENERAL FINISH NOTES

SUBMIT SAMPLES OF ALL FINISHES TO ARCHITECT FOR REVIEW PRIOR TO THE ORDERING OF MATERIAL

NO IRREGULARITIES OR IMPERFECTIONS SHALL BE PRESENT IN ANY OF THE MATERIAL BEING INSTALLED. IF SUCH ITEMS ARE IDENTIFIED DURING APPLICATION, WORK SHALL BE STOPPED AND THE ARCHITECT NOTIFIED.

- PROVIDE ALL MAINTENANCE MANUALS AND WARRANTY INFORMATION FOR EACH FINISH MATERIAL TO OWNER AT COMPLETION OF THE PROJECT.
- PAINT THE UNDERSIDE OF ALL GYPSUM BOARD CEILINGS, BULKHEADS AND SOFFITS (PT-4) UNLESS NOTED OTHERWISE. FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO COMPLETE WORK OF FINISH APPLICATIONS.
- ALL FINISHES SHALL BE INSTALLED AND MAINTAINED PER MANUFACTURER'S RECOMMENDATION AND INDUSTRY STANDARDS

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR EXAMINING AND CONFIRMING ALL SUBSTRATE CONDITIONS WHERE NEW MATERIALS ARE APPLIED. SUBSTRATE SHALL BE SMOOTH, FREE OF DEFECTS AND SHALL CONFORM TO THE REQUIREMENTS OF THE FINISHED MATERIAL MANUFACTURERS RECOMMENDATIONS.

ALL MATERIAL TO COMPLY WITH FLAME SPREAD CLASSIFICATION EITHER CLASS (1) ONE OR CLASS A DEPENDING ON GOVERNING CODE IN EFFECT.

SMOKE DEVELOPMENT RATING < 450 FOR ALL FINISHES.

		INT	ERIOR FINISI	H LEGEN	D	
MARK	ITEM	MANUFACTURER	MODEL/ PATTERN	COLOR	SIZE	REMARKS
FLOOR						
LVT-1	LUXURY VINYL TILE	MANNINGTON	AMTICO WOOD	REGENCY WALNUT AROW8200	4-1/2" X 36"	STRAIGHT EDGE ONLY. RANDOM INSTALLATION
RSF-1	RESILIENT SHEET FLOORING	ARMSTRONG	MEDINTONE, DIAMOND 10	#H5311- NATURAL WHITE	6'-0" ROLL	WELD ROD W0288. HOMOGENEOUS FLOORING
BASE						
IB-1	INTEGRAL BASE	ARMSTRONG	MEDINTONE, DIAMOND 10	#H5311- NATURAL WHITE	6" COVE	J' MOLD SCHLUTER STRIP AT THE TOP; TO BE USED WITH RSF-1
RB-2	RESILIENT BASE	ROPPE	PINNACLE	#129 DOLPHIN	4" COVE	ALL CAMPUSES- SUPPORT SERVICES SPACES
WALL						
CG-2	CORNER GUARD	C/S ACROVYN	SM-20AN-ACROVYN-4000	#858 PUMICE	3"	90 DEGREE. ABOVE BASE TO CEILING/INCLUDE ALL TRIM AND ACCESSORIES PIECES
CG-3	CORNER GUARD	C/S ACROVYN	SSM-25AN-ACROVYN-4000	#858 PUMICE	2"	END WALL. ABOVE BASE TO CEILING/ INCLUDE ALL TRIM AND ACCESSORIES PIECES
CG-4	CORNER GUARD	C/S ACROVYN	SSM-20MN-ACROVYN-4000	#858 PUMICE	3"x3	SURFACE, 135 DEGREE/ AVOVE BASE TO CEILING/ INCLUDE ALL TRIM AND ACCESSORIES PIECES
PT-1/PT-1A	PAINT / EPOXY PAINT	SHERWIN WILLIAMS	SW7036	ACCESSIBLE BEIGE		FIELD PAINT; EGSHELL FINISH/ EPOXY FINISH
PT-4	PAINT	SHERWIN WILLIAMS	SW7509	TIKI HUT		DOOR FRAME PAINT, SEMI-GLOSS FINISH
PT-8/PT-8A	PAINT / EPOXY PAINT	SHERWIN WILLIAMS	SW7621	SILVERMIST		ACCENT PAINT; EGGSHELL FINISH/ EPOXY FINIS
WP-2	WALL PROTECTION	C/S ACROVYN	ACROVYN-4000	#858 PUMICE	4' X 10' SHEETS; .040" THICK	TYPICAL OVERALL WALL PROTECTION UNLESS OTHERWISE NOTED
CASEWORK						
PLAM-1	PLASTIC LAMINATE	WILSONART	#7965K-12	WALNUT HEIGHTS		CUSTOM 3MM PVC DOELLKEN WALNUT HEIGHT 8707E5. RUN VERTICALLY
SSF-1	SOLID SURFACE	CORIAN		CLAM SHELL	1/2"; 30" X 144" SHEET 36" X 144"SHEET	
CEILING						
ACT-1	ACOUSTIC CEILING TILE	USG	RADAR CLIMA PLUS #2210	WHITE	2' X 2'	SQUARE EDGE, DONN DX TEE 15/16" GRID SYSTEM

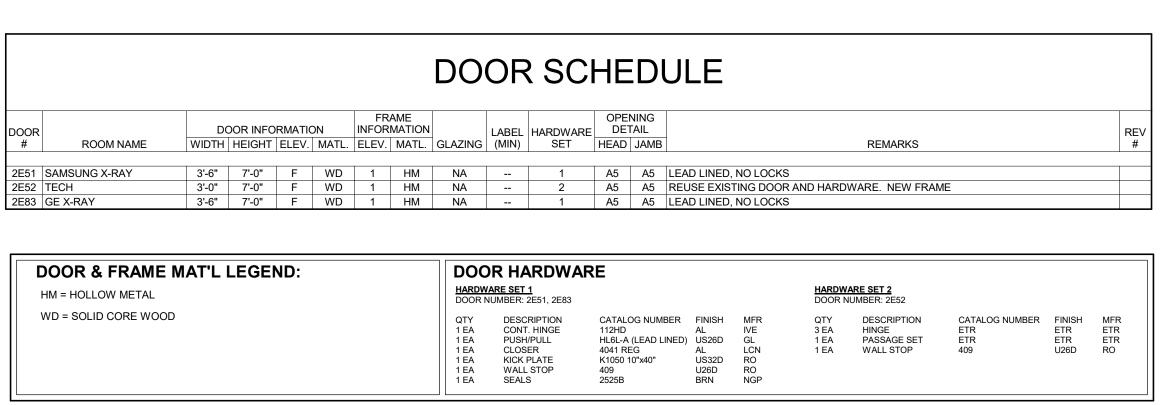
	ROOM FINISH SCHEDULE												
					WA	LLS			CAS	EWORK			
ROOM		FLOOR	BASE					BASE	WALL			1	
NUMBER	ROOM NAME	FINISH	FINISH	NORTH	EAST	SOUTH	WEST	CABINETS	CABINETS	COUNTERTOPS	SINKS	CEILING	NOTES
2E51	SAMSUNG X-RAY	RSF-1	IB-1	PT-1	PT-8		PT-1			SSF-1		ACT-1	
2E69	TECH	LVT-1	RB-2	PT-1	PT-1		PT-1					ACT-1	WORK STATIONS BY JA MARSHALL
2E83	GE X-RAY	RSF-1	IB-1	PT-1	PT-1		PT-1			SSF-1		ACT-1	

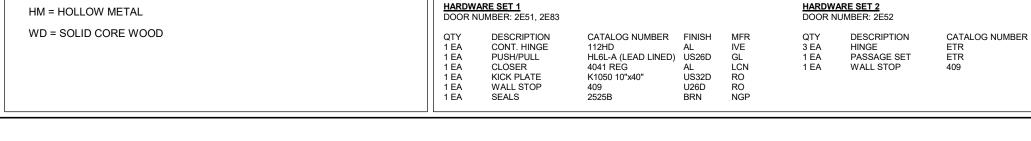
## GENERAL ROOM FINISH SCHEDULE NOTES

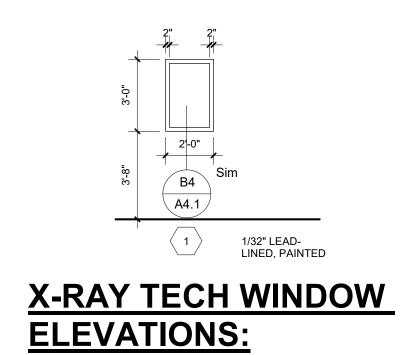
REFER TO FINISH PLAN AND INTERIOR ELEVATIONS FOR WALL FINISHES, WALL PROTECTION, CORNER GUARDS, WINDOW TREATMENTS, FLOOR FINISH APPLICATION AND LOCATIONS ALL SOLID WOOD, WOOD VENEER, AND PLASTIC LAMINATE GRAIN SHALL BE VERTICALLY ORIENTED UNLESS OTHERWISE NOTED DOOR FRAMES, HOLLOW METAL WINDOW FRAMES TO BE PT-4 UNLESS OTHERWISE NOTED ALL FACES AND UNDERSIDES OF SOFFITS AND HEADERS TO BE PT-1 UNLESS OTHERWISE NOTED WALL EXPANSION JOINTS TO BE PT-1 UNLESS OTHERWISE NOTED

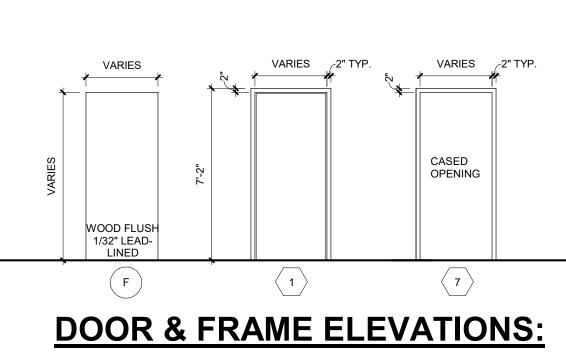
ALL ELECTRICAL PANELS AND METAL GRILLES SHALL BE PTD TO MATCH ADJACENT WALL SURFACE UNLESS OTHERWISE NOTED ALL COLUMN SURROUND FINISHES TO MATCH ADJACENT WALL SURFACE UNLESS OTHERWISE NOTED

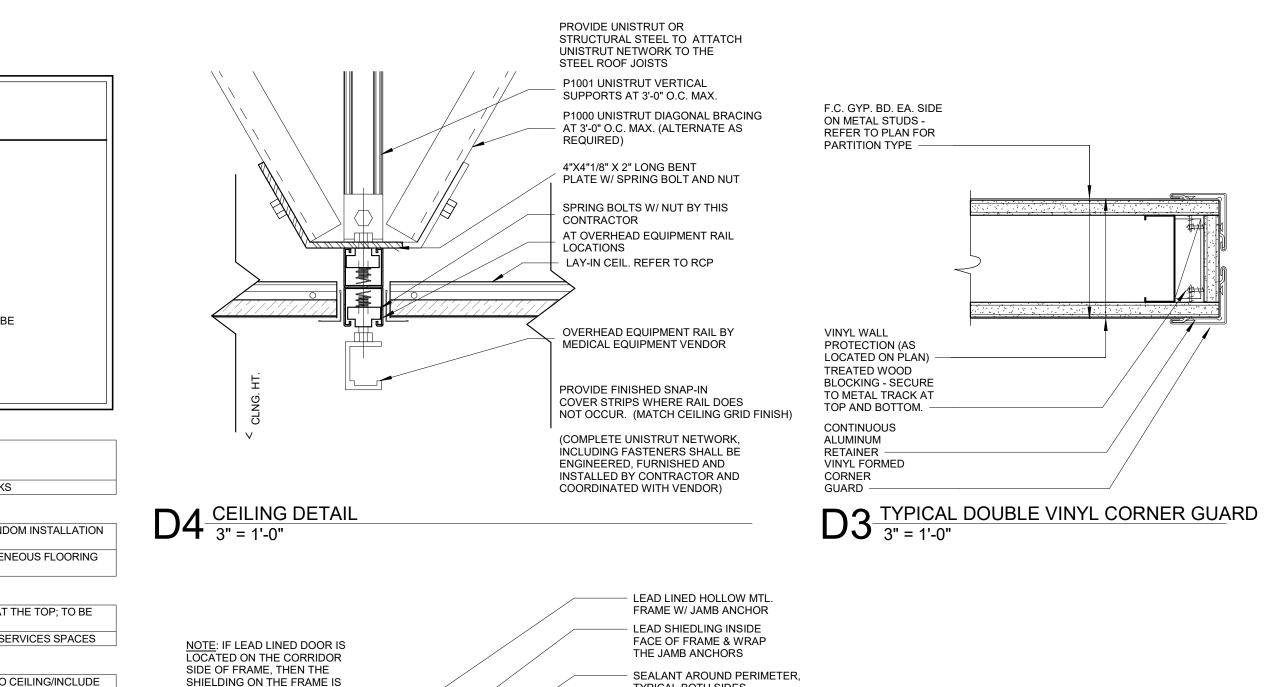
WHERE A WALL IS INDICATED TO HAVE PARTIAL OR FULL HT WALL PROTECTION, THE ENTIRE WALL IS TO BE PTD PRIOR TO WALL PROTECTION INSTALLATION EXTEND ALL FINISHES BENEATH, BEHIND, AROUND ALL CASEWORK, EQUIPMENT, SIGNAGE, ETC

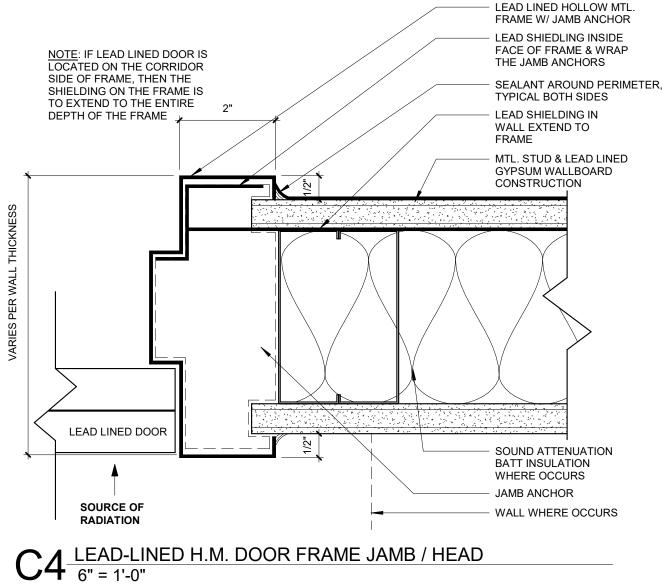


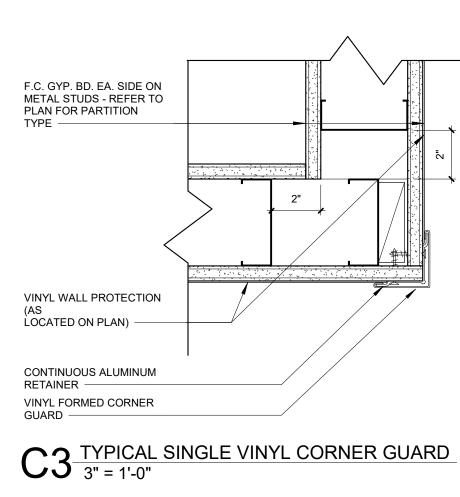




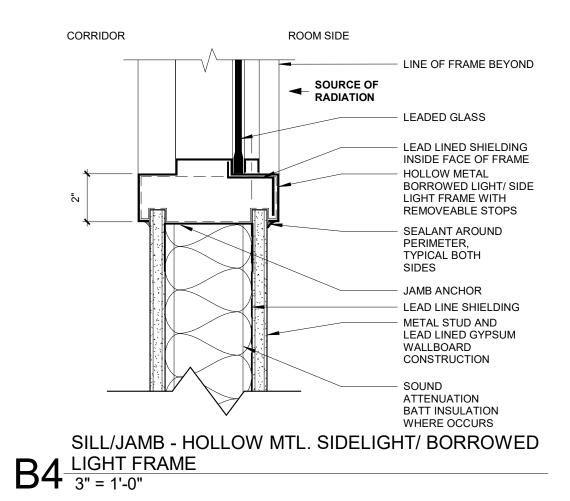


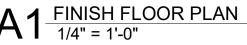


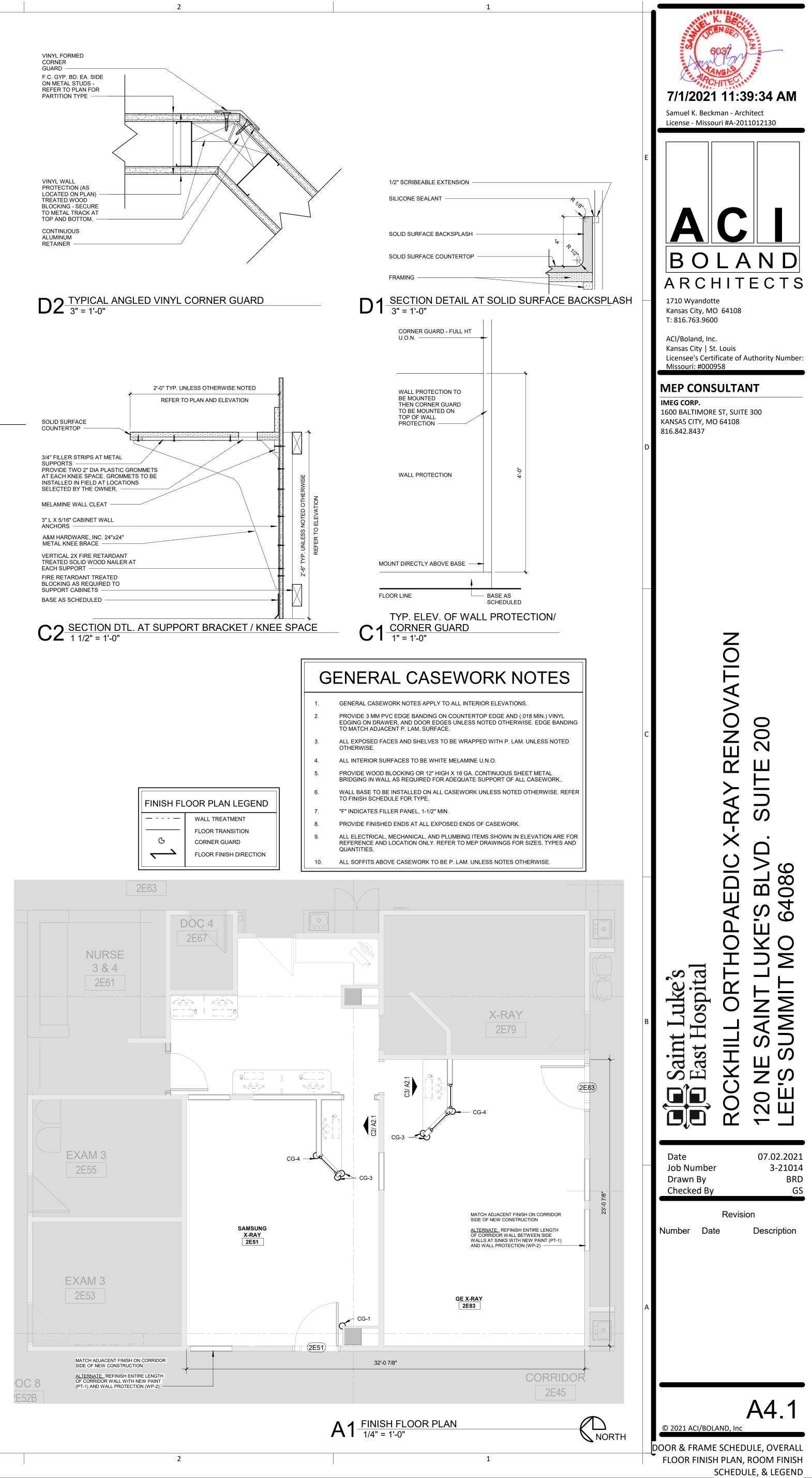


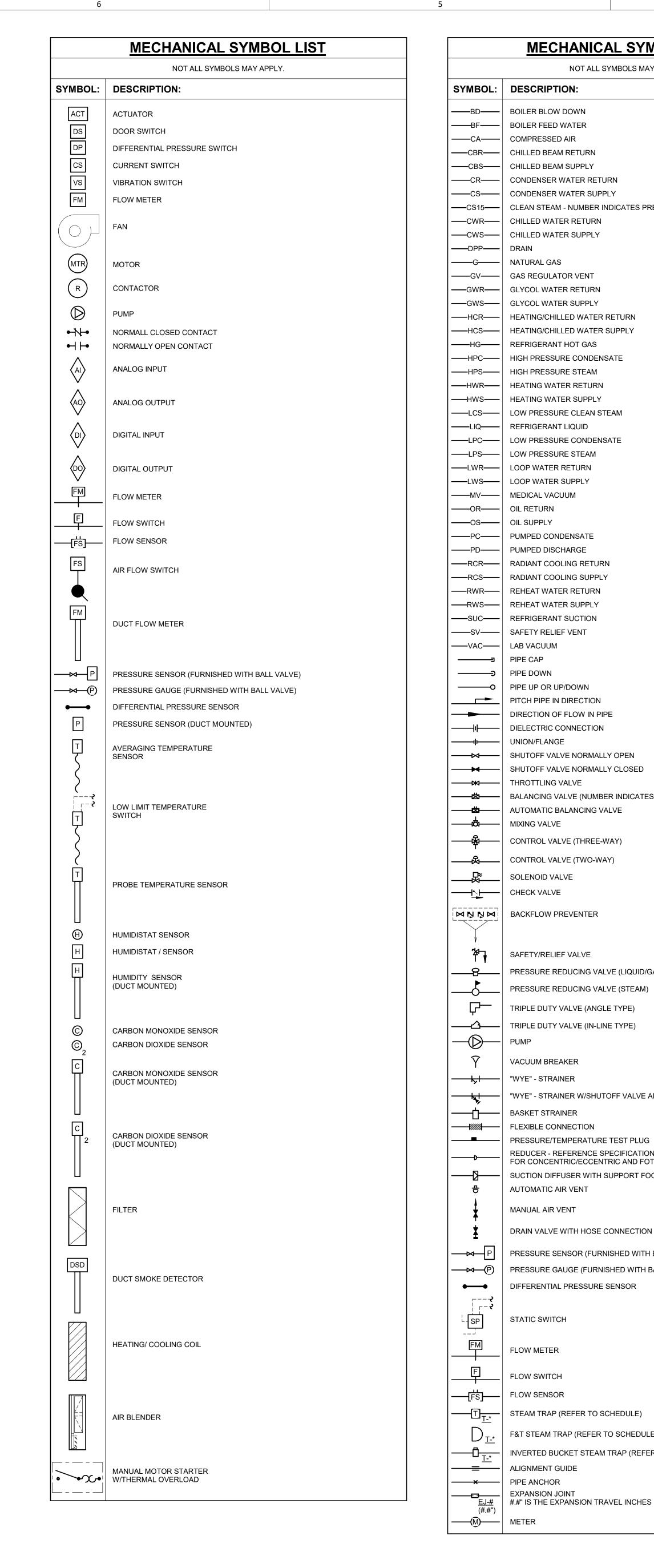












MECHANICAL SYMBOL LIST
NOT ALL SYMBOLS MAY APPLY.
ESCRIPTION:
ILER BLOW DOWN
ILER FEED WATER
ILLED BEAM RETURN
ILLED BEAM SUPPLY NDENSER WATER RETURN
NDENSER WATER SUPPLY
EAN STEAM - NUMBER INDICATES PRESSURE IN PSIG. ILLED WATER RETURN
ILLED WATER SUPPLY
AIN TURAL GAS
S REGULATOR VENT
YCOL WATER RETURN YCOL WATER SUPPLY
ATING/CHILLED WATER RETURN
ATING/CHILLED WATER SUPPLY
FRIGERANT HOT GAS GH PRESSURE CONDENSATE
GH PRESSURE STEAM
ATING WATER RETURN ATING WATER SUPPLY
W PRESSURE CLEAN STEAM
FRIGERANT LIQUID W PRESSURE CONDENSATE
W PRESSURE STEAM
OP WATER RETURN OP WATER SUPPLY
DICAL VACUUM
MPED CONDENSATE
MPED DISCHARGE DIANT COOLING RETURN
DIANT COOLING SUPPLY
HEAT WATER RETURN HEAT WATER SUPPLY
FRIGERANT SUCTION
FETY RELIEF VENT 3 VACUUM
PE CAP
YE DOWN YE UP OR UP/DOWN
CH PIPE IN DIRECTION
ELECTRIC CONNECTION
UTOFF VALVE NORMALLY CLOSED ROTTLING VALVE
LANCING VALVE (NUMBER INDICATES GPM)
TOMATIC BALANCING VALVE KING VALVE
NTROL VALVE (THREE-WAY)
NTROL VALVE (TWO-WAY)
LENOID VALVE
ECK VALVE
CKFLOW PREVENTER
ESSURE REDUCING VALVE (LIQUID/GAS) ESSURE REDUCING VALVE (STEAM)
IPLE DUTY VALVE (ANGLE TYPE)
IPLE DUTY VALVE (IN-LINE TYPE)
MP
CUUM BREAKER
YE" - STRAINER
YE" - STRAINER W/SHUTOFF VALVE AND HOSE CONNECTION WITH CAP
SKET STRAINER EXIBLE CONNECTION
ESSURE/TEMPERATURE TEST PLUG
DUCER - REFERENCE SPECIFICATION R CONCENTRIC/ECCENTRIC AND FOT/FOB
CTION DIFFUSER WITH SUPPORT FOOT TOMATIC AIR VENT
AIN VALVE WITH HOSE CONNECTION AND CAP
ESSURE SENSOR (FURNISHED WITH BALL VALVE) ESSURE GAUGE (FURNISHED WITH BALL VALVE)
FERENTIAL PRESSURE SENSOR
ATIC SWITCH
DW METER
- · · ··· <u>-</u> · <u>-</u> · ·
OW SWITCH
EAM TRAP (REFER TO SCHEDULE)
T STEAM TRAP (REFER TO SCHEDULE)
/ERTED BUCKET STEAM TRAP (REFER TO SCHEDULE) GNMENT GUIDE

	MECHANICAL SYMBOL LIST									
	NOT ALL SYMBOLS MAY APPLY.									
SYMBOL:	DESCRIPTION:									
-	DIRECTION OF AIR FLOW									
	FLEXIBLE DUCT									
	MANUAL VOLUME DAMPER									
- R	RISE IN DIRECTION OF AIR FLOW									
- D -	DROP IN DIRECTION OF AIR FLOW									
	DUCT CAP									
	DUCT DOWN									
	DUCT UP									
$\sum_{i=1}^{n}$	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									
<ul><li>✓ [###]</li></ul>	TERMINAL AIR BOX (REFER TO SCHEDULE)									
<b>≠</b> [ [###]	TERMINAL AIR BOX w/REHEAT COIL (REFER TO SCHEDULE)									
	FAN POWERED TERMINAL AIR BOX w/REHEAT COIL (REFER TO SCHEDULE)									
	HUMIDIFIER									
/\/\//	OPPOSED BLADE DAMPER (REFER TO SCHEDULE)									
///////	PARALLEL BLADE DAMPER (REFER TO SCHEDULE)									
÷ H	DIFFERENTIAL PRESSURE SENSOR HUMIDISTAT SENSOR									
Н	HUMIDISTAT / SENSOR									
Η © ©2	CARBON MONOXIDE SENSOR CARBON DIOXIDE SENSOR									
©2 (0)	OCCUPANCY SENSOR									
(Ē)	PRESSURE SENSOR/MONITOR									
Ρ	PRESSURE SENSOR (DUCT MOUNTED)									
<b>(</b> T <b>)</b>	THERMOSTAT/SENSOR									
T	TEMPERATURE SENSOR									
$\overline{\Box}$	THERMOSTAT/SENSOR WITH HEAVY DUTY ENCLOSURE									
[T] 	TEMPERATURE SENSOR WITH WELL									
(T) t	THERMOMETER WITH WELL (DIAL TYPE)									
[] 	THERMOMETER WITH WELL (FILLED TYPE)									
→ XX-Y	AIRFLOW MEASUREMENT SYMBOL XX - AHU SYMBOL Y - SEQUENTIAL NUMBER									

	MECHANICAL ABBREVIATION KEY
ABBR:	DESCRIPTION:
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
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)
UNO	UNLESS NOTED OTHERWISE

#### **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. PROVIDE DUCT TRAVERSE READINGS AT LOCATIONS DESIGNATED ON THE DRAWINGS BY THE "AIRFLOW MEASUREMENT SYMBOL". THOSE MEASUREMENTS SHALL BE INCLUDED IN THE PRE DEMOLITION REPORT AND SHALL BE DESIGNATED WITH THE IDENTIFIER AS MARKED ON THE DRAWINGS. READINGS SHALL BE DESIGNATED WITH THE ROOM NAME AND NUMBER AS MARKED ON THE DRAWINGS. IF FLOOR PLANS DO NOT HAVE UNIQUE ROOM NAMES AND NUMBERS, TAB CONTRACTOR SHALL INCLUDE FLOOR PLAN WITH UNIQUE NUMBER DESIGNATIONS ASSIGNED TO READINGS THAT MATCH THOSE USED IN THE FINAL PRE-DEMOLITION REPORT. DRAWINGS THAT ARE HAND-MARKED WITH RED INK ARE ACCEPTABLE, PROVIDED THEY ARE LEGIBLE. 3. 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. 4. TAKE A DUCT STATIC PRESSURE READING AT EACH LOCATION WHERE A DUCT TRAVERSE

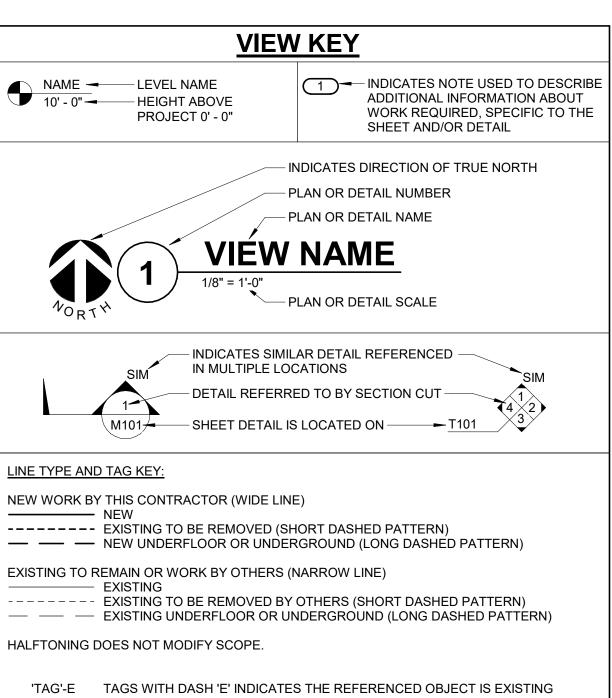
READING IS TAKEN AND INCLUDE IN THE FINAL PRE-DEMOLITION TAB REPORT. 5. TAB CONTRACTOR SHALL COMPILE AND SUBMIT FOUR COPIES OF THE FINAL PRE-DEMOLITION REPORT WITHIN 10 WORKING DAYS AFTER THE FIELD MEASUREMENTS ARE COMPLETED. FINAL TAB REPORT SHALL BE SUBMITTED FOR REVIEW TO THE ARCHITECT/ENGINEER. TESTING SHALL INCLUDE ALL ITEMS REQUIRED IN THE SPECIFICATIONS.

#### **TAB POST-CONSTRUCTION NOTES:**

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 FINAL 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 TAB REPORT.

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 SPECIFICATIONS.

	CONTRACTOR ABBREVIATION KEY
BBR:	DESCRIPTION:
A.C. A.V.C.	ASBESTOS ABATEMENT CONTRACTOR 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



UNDERLINED TEXT INDICATES ADDITIONAL INFORMATION CAN BE FOUND ELSEWHERE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL •

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

UNLESS NOTED OTHERWISE. 2. PIPE DRAIN LINES FROM EQUIPMENT TO NEAREST FLOOR DRAIN. . 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
- 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 AND WALL PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE. 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 MINIMUM 3'-6" CLEARANCE IN FRONT OF ALL ELECTRICAL PANELS, MOTOR
- STARTERS, SWITCHES, AND DISCONNECTS. 16. PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL EXTEND MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT.
- 17. 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 RENOVATION NOTES:**

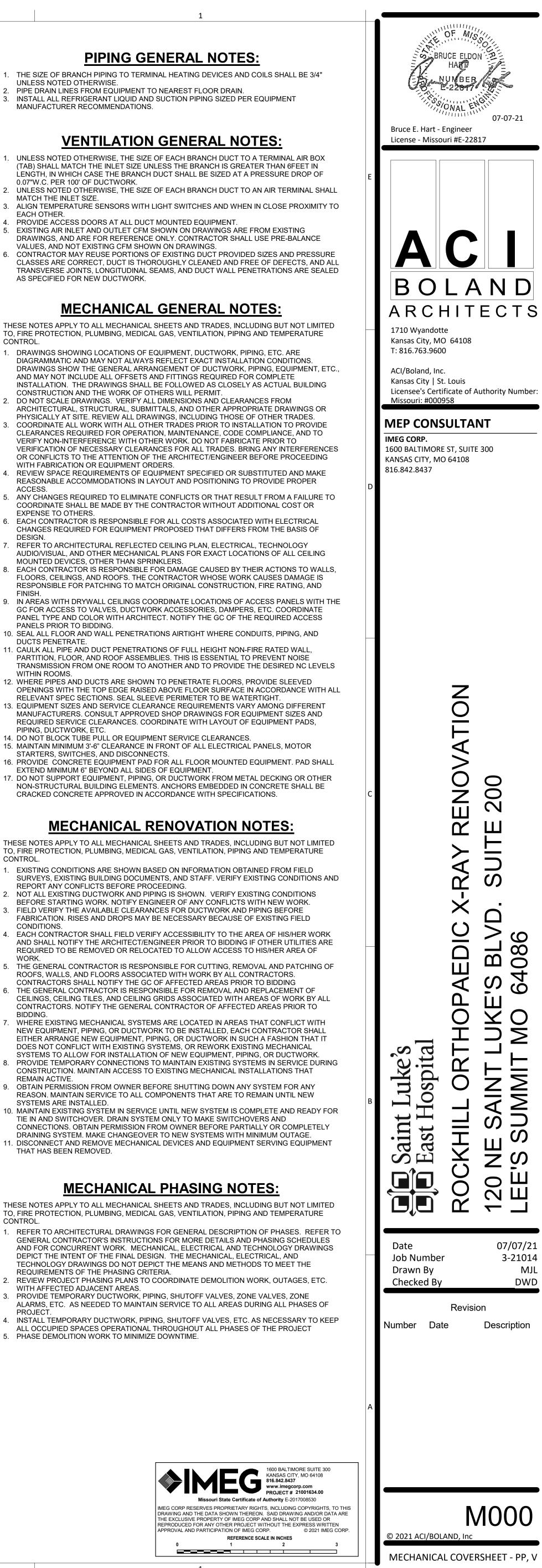
THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE CONTROL.

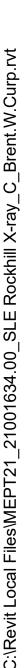
- SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
- NOT ALL EXISTING DUCTWORK AND PIPING IS SHOWN. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK.
- 3. FIELD VERIFY THE AVAILABLE CLEARANCES 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 HIS/HER WORK AND SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO BIDDING IF OTHER UTILITIES ARE REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO HIS/HER AREA 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 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.
- 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. 11. DISCONNECT AND REMOVE MECHANICAL DEVICES AND EQUIPMENT SERVING EQUIPMENT THAT HAS BEEN REMOVED.

#### **MECHANICAL PHASING NOTES:**

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

- 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.
- 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.





## <u>SECOND FLOOR DEMOLITION - PIPING</u>

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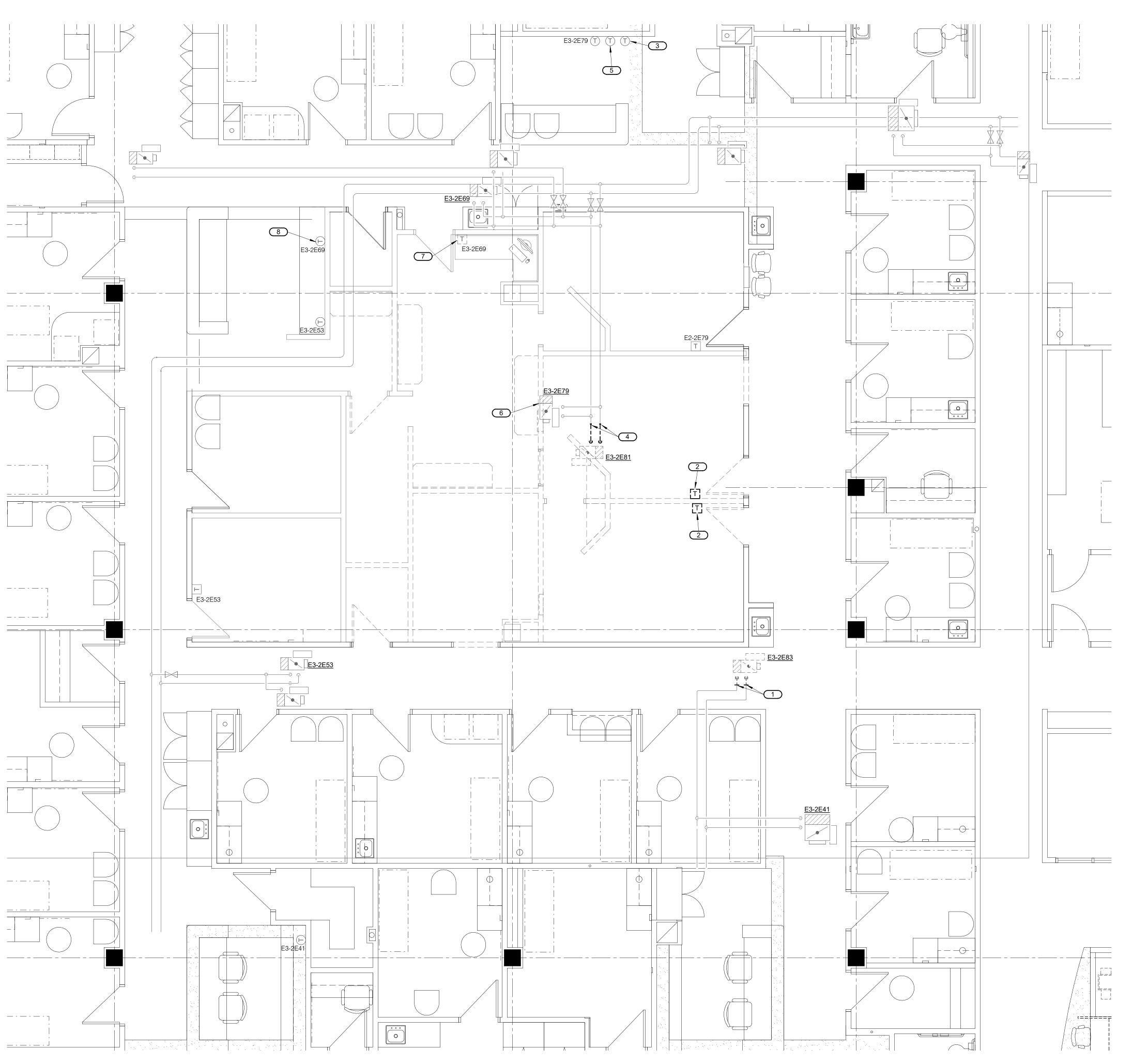
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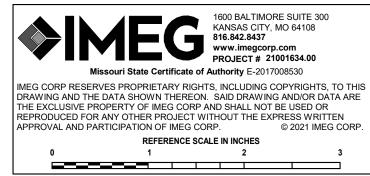
#### SHEET NOTES:

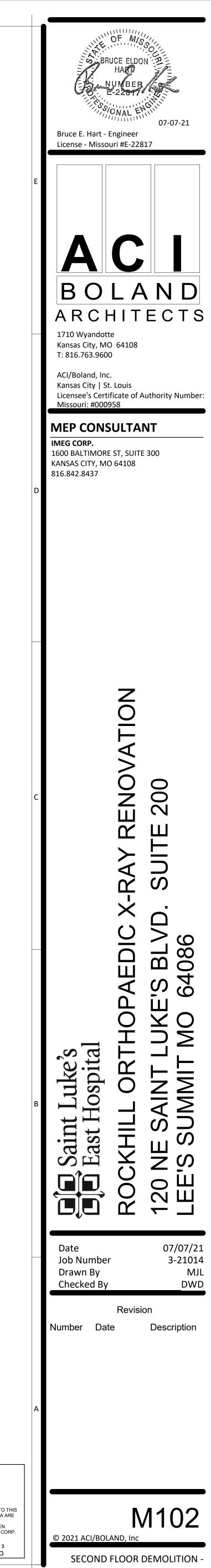
. REFER TO GENERAL NOTES ON SHEET M000.

- ACCORDING TO EXISTING BUILDING DOCUMENTS, EACH TERMINAL AIR BOX INCLUDES A THERMOSTAT (WITH TEMPERATURE ADJUSTMENT KNOB) IN A NURSE STATION AREA, BUT MOST BOXES ALSO HAVE A TEMPERATURE SENSOR (WITH BLANK COVER) IN THE SPACE SERVED BY THE BOX. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND COORDINATE WITH ENGINEER IF CONDITIONS DIFFER.
- TERMINAL AIR BOX TAGS ARE BASED ON ROOM NUMBERS SERVED AND MAY NOT MATCH THE BOX TAGS IN THE BUILDING MANAGEMENT SYSTEM.

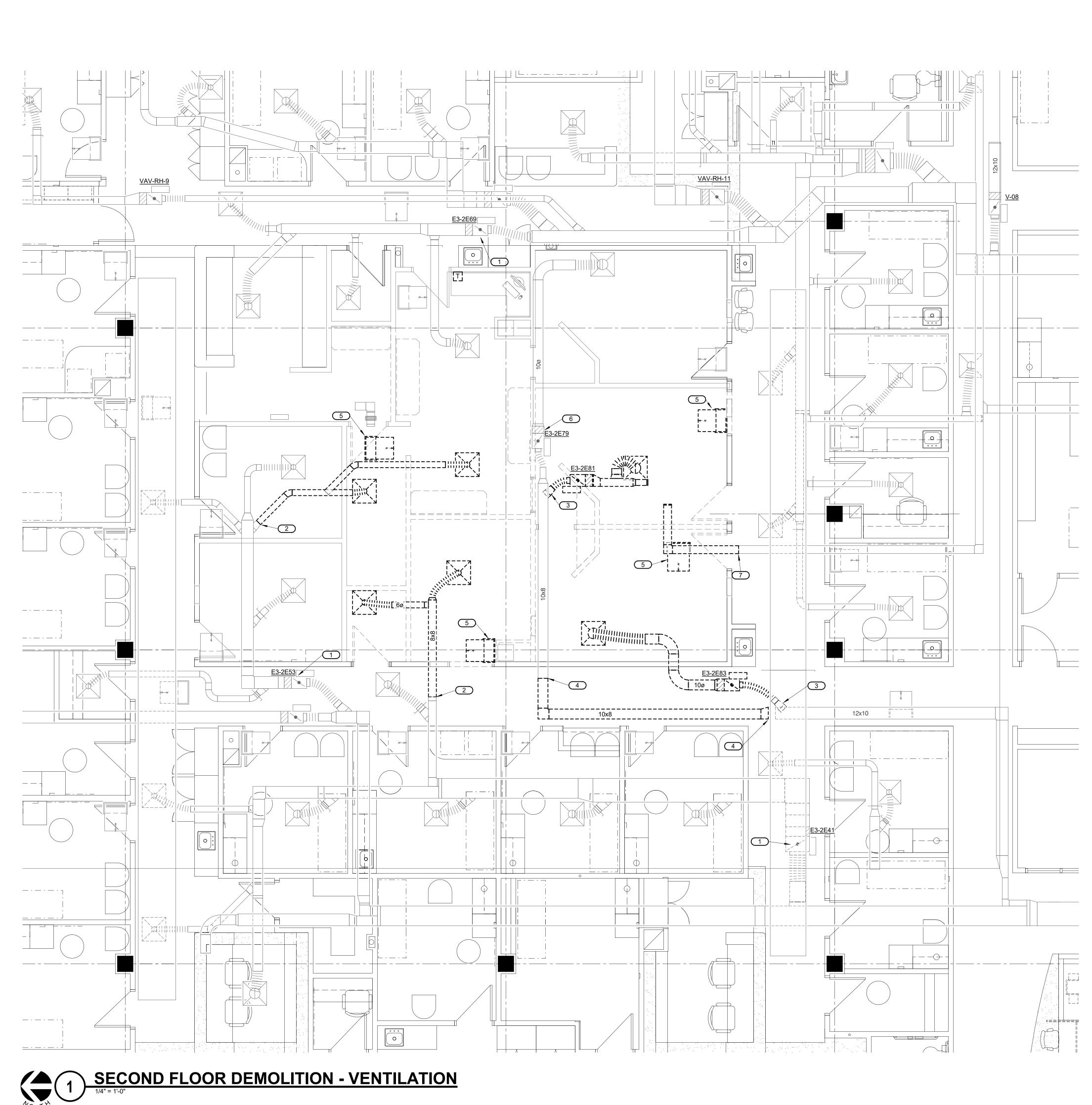
#### KEYNOTES: #

- . CUT 3/4" HWS AND HWR AND REMOVE PIPING TO BOX THAT IS BEING REMOVED, INCLUDING ACCESSORIES, PROTECT REMAINING PIPING FOR NEW CONNECTION, RE: SHEET M202. ALSO DISCONNECT DDC CONTROLLER ASSOCIATED WITH THIS BOX AND SALVAGE IT FOR RELOCATION AND RE-USE.
- FIELD VERIFY LOCATION OF TEMPERATURE SENSOR (WITH BLANK COVER). DISCONNECT AND SALVAGE SENSOR FOR RELOCATION AND RE-USE. REMOVE ANY CONTROL WIRING THAT CANNOT BE RE-USED.
- FIELD VERIFY LOCATION OF THERMOSTAT (WITH TEMPERATURE ADJUSTMENT KNOB) ÀSSOCIATED WITH TERMINAL AIR BOX E3-2E83. THE BOX IS BEING REMOVED, BUT THE THERMOSTAT SHALL REMAIN AND WILL BE RE-USED WITH A NEW BOX. THE NEW BOX IS SHOWN WITH SAME TAG, RE: SHEET M202.
- L. CUT AND CAP 3/4" HWS AND HWR AND REMOVE PIPING TO BOX THAT IS BEING REMOVED, INCLUDING ACCESSORIES. THIS PIPING WILL NOT BE RE-USED. ALSO DISCONNECT DDC CONTROLLER ASSOCIATED WITH THIS BOX AND SALVAGE IT FOR RELOCATION AND RE-USE.
- FIELD VERIFY LOCATION OF THERMOSTAT (WITH TEMPERATURE ADJUSTMENT KNOB) ASSOCIATED WITH TERMINAL AIR BOX E2-2E81. THE BOX IS BEING REMOVED, BUT THE THERMOSTAT SHALL REMAIN AND WILL BE RE-USED WITH A NEW BOX. THE NEW BOX IS SHOWN WITH A DIFFERENT TAG, RE: SHEET M202.
- TERMINAL BOX THAT SERVES X-RAY ROOM 2E79 SHALL REMAIN. IF THE BOX OR ITS PIPING WOULD INTERFERE WITH THE NEW G.E. X-RAY EQUIPMENT, OR NEEDS TO MOVE BECAUSE THE ASSOCIATED DUCTWORK WOULD INTERFERE, THEN CONTRACTOR SHALL DISCONNECT AND RELOCATE THE PIPING AS REQUIRED TO CLEAR SPACE FOR THE NEW WORK. MODIFY CONTROL WIRING OR PROVIDE NEW WIRING AS REQUIRED.
- EXISTING BUILDING DOCUMENTS SHOWED A TEMPERATURE SENSOR (WITH BLANK COVER) IN THIS LOCATION; HOWEVER, IT APPEARS THE SENSOR WAS PREVIOUSLY REMOVED. FIELD VERIFY LOCATION. IF SENSOR IS FOUND, DISCONNECT AND SALVAGE IT FOR RELOCATION AND RE-USE. REMOVE ANY CONTROL WIRING THAT CANNOT BE RE-USED
- FIELD VERIFY LOCATION OF THERMOSTAT (WITH TEMPERATURE ADJUSTMENT KNOB) ASSOCIATED WITH TERMINAL AIR BOX E3-2E69. THE BOX AND THERMOSTAT SHALL REMAIN, BUT WILL NOT BE USED FOR TEMPERATURE FEEDBACK, ONLY FOR SETPOINT ADJUSTMENT.





PIPING



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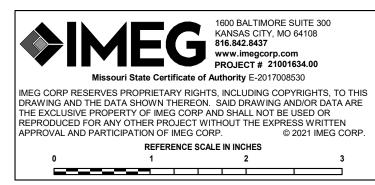
#### SHEET NOTES:

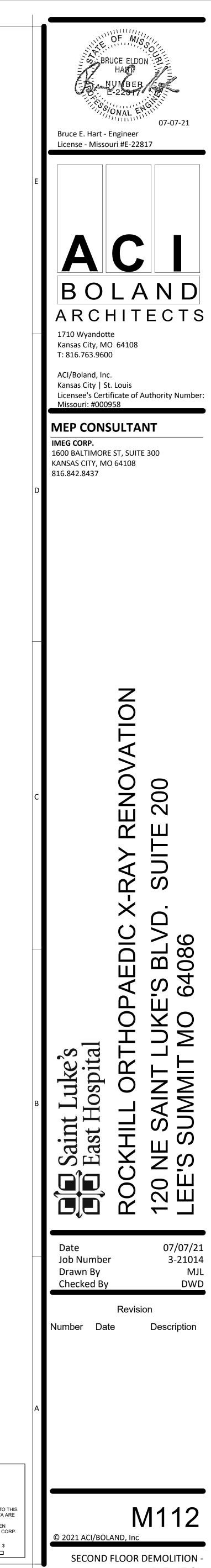
. REFER TO GENERAL NOTES ON SHEET M000. TERMINAL AIR BOX TAGS ARE BASED ON

ROOM NUMBERS SERVED AND MAY NOT MATCH THE BOX TAGS IN THE BUILDING MANAGEMENT SYSTEM.

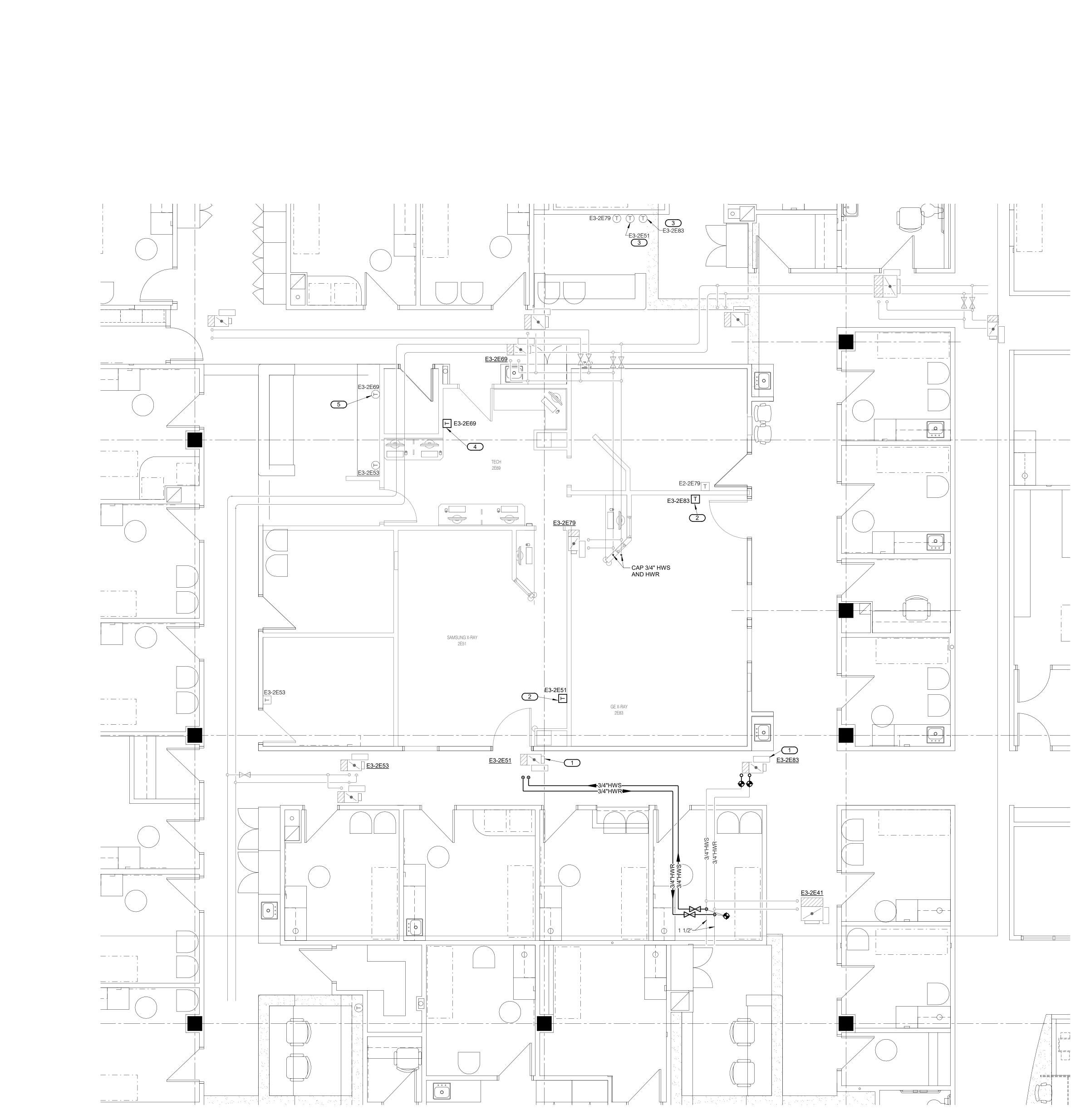
#### KEYNOTES: #

- . TAKE PRE-DEMOLITION AIRFLOW READINGS AT EXISTING TERMINAL AIR BOX, AND AT ALL SUPPPLY AIR TERMINALS SERVED BY THE BOX, INCLUDING THOSE OUTSIDE OF THE PROJECT AREA.
- CUT AND CAP SUPPLY AIR DUCT AND REMOVE DOWNSTREAM DUCTWORK AND AIR TERMINALS SHOWN DARK AND DASHED.
- CUT AND CAP SUPPLY AIR DUCT AND REMOVE DOWNSTREAM DUCTWORK, 6" TERMINAL AIR BOX, AND AIR TERMINAL SHOWN DARK AND DASHED. SALVAGE THE DDC CONTROLLER FROM THE TERMINAL AIR BOX AND PROTECT IT FOR RE-USE WITH A NEW TERMINAL AIR BOX, RE: SHEET M212. REMOVE ANY CONTROL WIRING THAT CANNOT BE USED.
- DISCONNECT AND REMOVE A PORTION OF 10" x8" SUPPLY AIR DUCTWORK AS INDICATED. PROTECT REMAINING DUCTWORK FOR NEW CONNECTIONS. RE: SHEET M212.
- DISCONNECT AND SALVAGE RETURN AIR TERMINAL WITH SOUND BOOT. CLEAN THE GRILLE AND PROTECT THE GRILLE AND BOOT FOR RE-USE. RE: SHEET M212.
- TERMINAL AIR BOX THAT SERVED X-RAY ROOM 2E79 SHALL REMAIN. IF THE BOX, OR THE SUPPLY AIR DUCTWORK ON EITHER SIDE OF THE BOX, WOULD INTERFERE WITH THE NEW G.E. X-RAY EQUIPMENT (OR STRUCTURAL SUPPORTS FOR SAME), THEN CONTRACTOR SHALL DISCONNECT AND RELOCATE THE BOX AND/OR DUCTWORK AS REQUIRED TO CLEAR SPACE FOR THE NEW WORK. COORDINATE WITH NEW WORK TO ENSURE THE BOX IS ACCESSIBLE FOR MAINTENANCE. MODIFY CONTROL WIRING OR PROVIDE NEW WIRING AS REQUIRED.
- CUT AND CAP THE (PREVIOUSLY ABANDONED) EXHAUST DUCT AND REMOVE DUCTWORK ABOVE X-RAY ROOM.





VENTILATION



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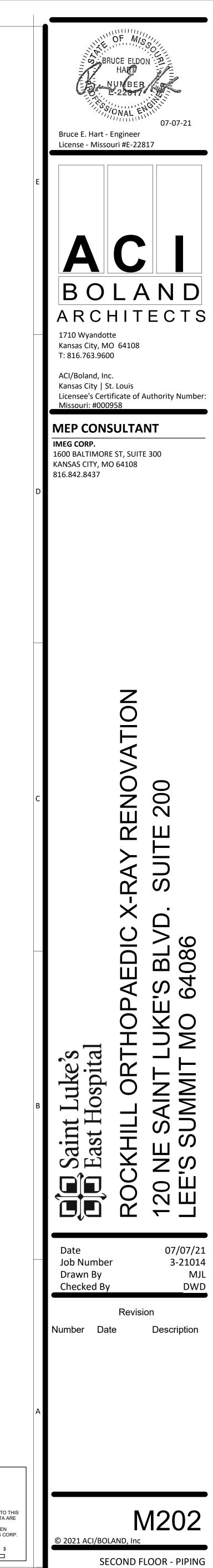
#### SHEET NOTES:

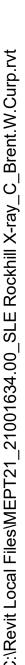
- . REFER TO GENERAL NOTES ON SHEET M000.
- ACCORDING TO EXISTING BUILDING DOCUMENTS, EACH TERMINAL AIR BOX INCLUDES A THERMOSTAT (WITH TEMPERATURE ADJUSTMENT KNOB) IN A NURSE STATION AREA, BUT MOST BOXES ALSO HAVE A TEMPERATURE SENSOR (WITH BLANK COVER) IN THE SPACE SERVED BY THE BOX. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND COORDINATE WITH ENGINEER IF CONDITIONS DIFFER.
- TERMINAL AIR BOX TAGS ARE BASED ON ROOM NUMBERS SERVED AND MAY NOT MATCH THE BOX TAGS IN THE BUILDING MANAGEMENT SYSTEM.

#### KEYNOTES: #

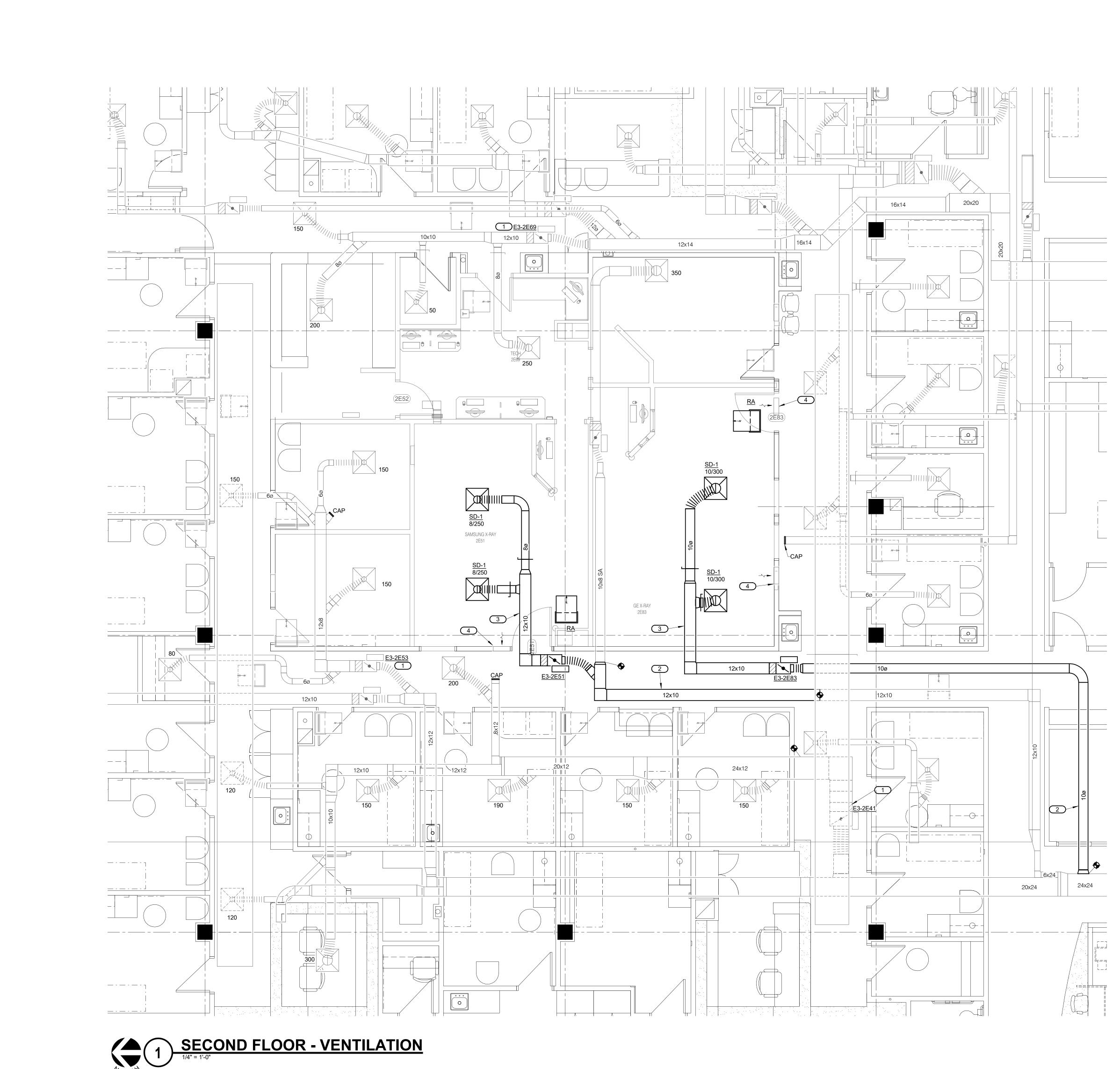
- 1. IF POSSIBLE, INSTALL DDC CONTROLLER THAT WAS SALVAGED DURING DEMOLITION AND INSTALL IT ON THE NEW TERMINAL AIR BOX. IF NOT POSSIBLE, THEN PROVIDE AND INSTALL A NEW DDC CONTROLLER. PROVIDE NEW CONTROL WIRING AND CONNECT TO EXISTING BUILDING MANAGEMENT SYSTEM (BMS). UPDATE SOFTWARE AND GRAPHICS ON BMS AS REQUIRED.
- NEW LOCATION FOR TEMPERATURE SENSOR (WITH BLANK COVER) THAT WAS SALVAGED DURING DEMOLITION. CONNECT TO TERMINAL AIR BOX CONTROLLER AS REQUIRED. TEST SENSOR FOR ACCURACY AND CALIBRATE OR REPLACE AS REQUIRED.
- CONNECT EXISTING THERMOSTAT (WITH TEMPERATURE ADJUSTMENT KNOB) TO TERMINAL AIR BOX CONTROLLER AS REQUIRED. UPDATE THE LABEL ON THE DEVICE TO INDICATE WHAT IT SERVES.
- NEW TEMPERATURE SENSOR (WITH BLANK COVER). CONNECT TO TERMINAL AIR BOX CONTROLLER AS REQUIRED. (IF AN EXISTING SENSOR WAS FOUND DURING DEMOLITION, IT CAN BE RE-USED AND SHALL BE RE-INSTALLED IN THIS LOCATION. TEST SENSOR FOR ACCURACY AND CALIBRATE OR REPLACE AS REQUIRED.)
- UPDATE LABEL ON EXISTING THERMOSTAT (WITH TEMPERATURE ADJUSTMENT KNOB) TO REFLECT THE ROOMS IT SERVES (I.E. BOTH TECH RM. 2E67 AND NURSE STATION).







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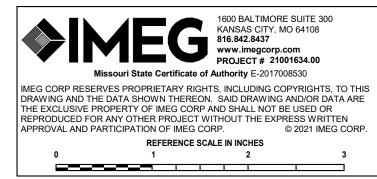
#### SHEET NOTES:

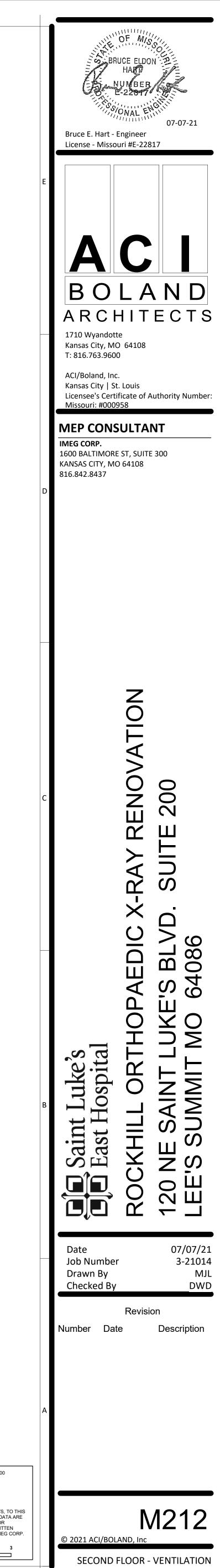
. REFER TO GENERAL NOTES ON SHEET M000.

2. TERMINAL AIR BOX TAGS ARE BASED ON ROOM NUMBERS SERVED AND MAY NOT MATCH THE BOX TAGS IN THE BUILDING MANAGEMENT SYSTEM.

#### KEYNOTES: #

- 1. ADJUST SETTINGS FOR EXISTING TERMINAL AIR BOX AND TEST, ADJUST AND BALANCE ALL AIR TERMINALS IN THIS ZONE TO THE NEW AIR FLOW RATES (CFM) INDICATED.
- COORDINATE ROUTING OF NEW SUPPLY DUCTWORK, AND EXACT LOCATIONS OF NEW TERMINAL AIR BOXES, WITH EXISTING WORK. MODIFY EXISTING WORK AS REQUIRED TO CLEAR A PATCH FOR NEW WORK.
- COORDINATE ROUTING OF DUCTWORK AND LOCATIONS OF AIR TERMINALS IN NEW X-RAY ROOM WITH THE X-RAY EQUIPMENT DRAWINGS. AVOID INSTALLING THESE ITEMS WHERE THEY COULD INTERFERE WITH NEW STRUCTURAL SUPPORTS OR NEW MEDICAL EQUIPMENT.
- EXISTING 18"x12" RETURN AIR TRANSFER DUCT SLEEVE OPENING IN WALL ABOVE CEILING TO REMAIN. IF NECESSARY, RAISE THE SLEEVE TO BE ABOVE THE NEW CEILING HEIGHT.

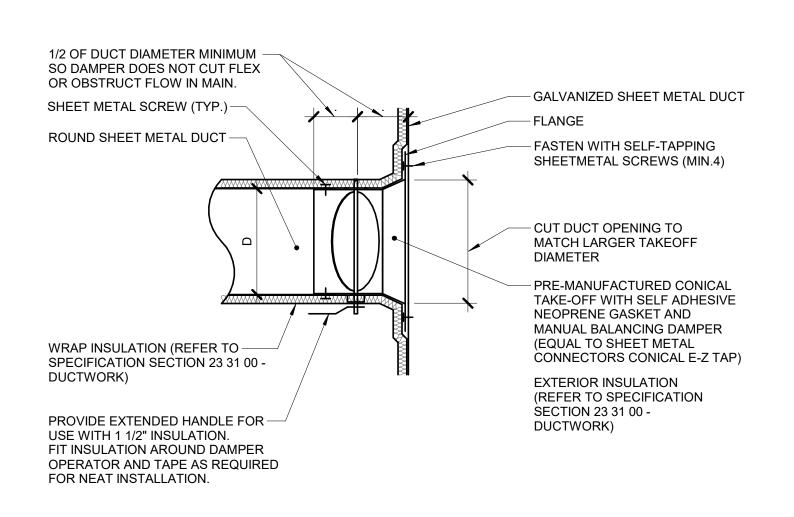






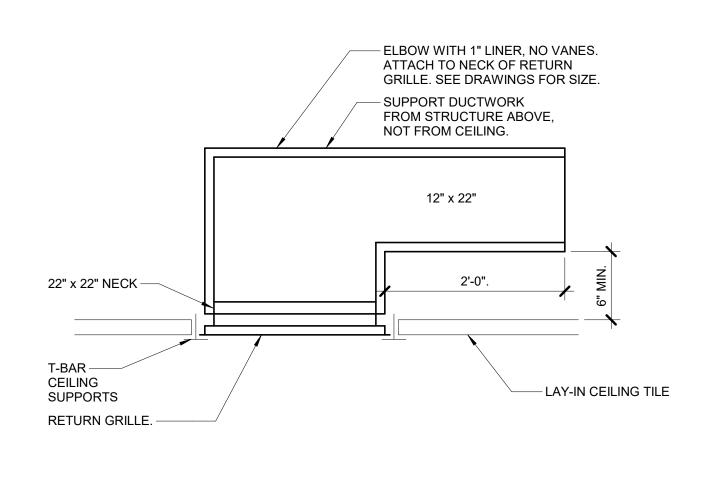
- NOT OVER 2" PRESSURE CLASS, AND ROUND DUCT IS NOT OVER 12" DIAMETER. 3. MANUFACTURED TAP/DAMPER COMBINATIONS WITH LESS THAN 1/2 DUCT DIAMETER SPACING BETWEEN THE MAIN DUCT AND THE DAMPER SHAFT ARE ACCEPTABLE ONLY IF THE DAMPER SHAFT IS INSTALLED PARALLEL TO THE AIR FLOW IN THE MAIN DUCT.
- 1. THIS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

NOTES:



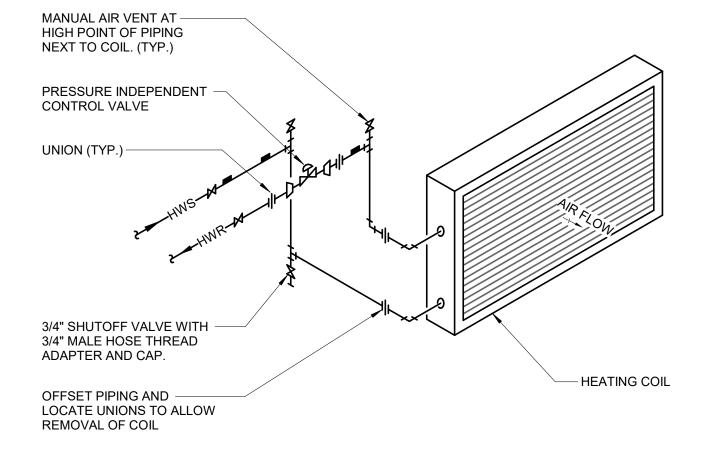
# 1) CEILING RETURN GRILLE

NOTES: 1. THIS DETAIL APPLIES TO ALL RETURN GRILLES.



# 5 HOT WATER COIL PIPING NO SCALE

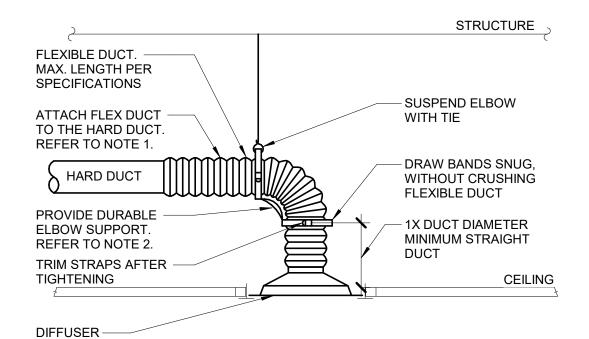
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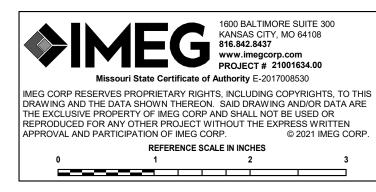
WRAPS; ONE FOR THE INNER LINER AND ONE FOR THE OUTER SHELL. FOLD THE OUTER SHELL INSIDE ITSELF SO IT HAS NEAT EDGES PRIOR TO TIE WRAPPING. 2. DURABLE ELBOW SUPPORT ACCEPTABLE MANUFACTURER AND MODEL: HART AND COOLEY - SMARTFLOW, THERMAFLEX -FLEXFLOW, TITUS - FLEXRIGHT, OR APPROVED EQUAL.

1. TO ATTACH FLEX DUCT TO THE HARD DUCT, TAPE THE INNER LINER TO THE HARD DUCT THEN ATTACH WITH TWO NYLON TIE

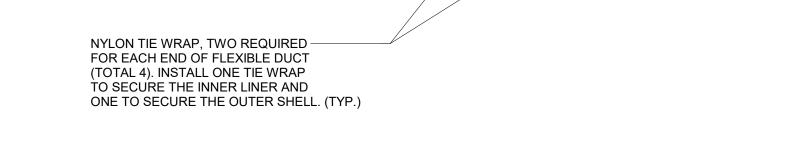


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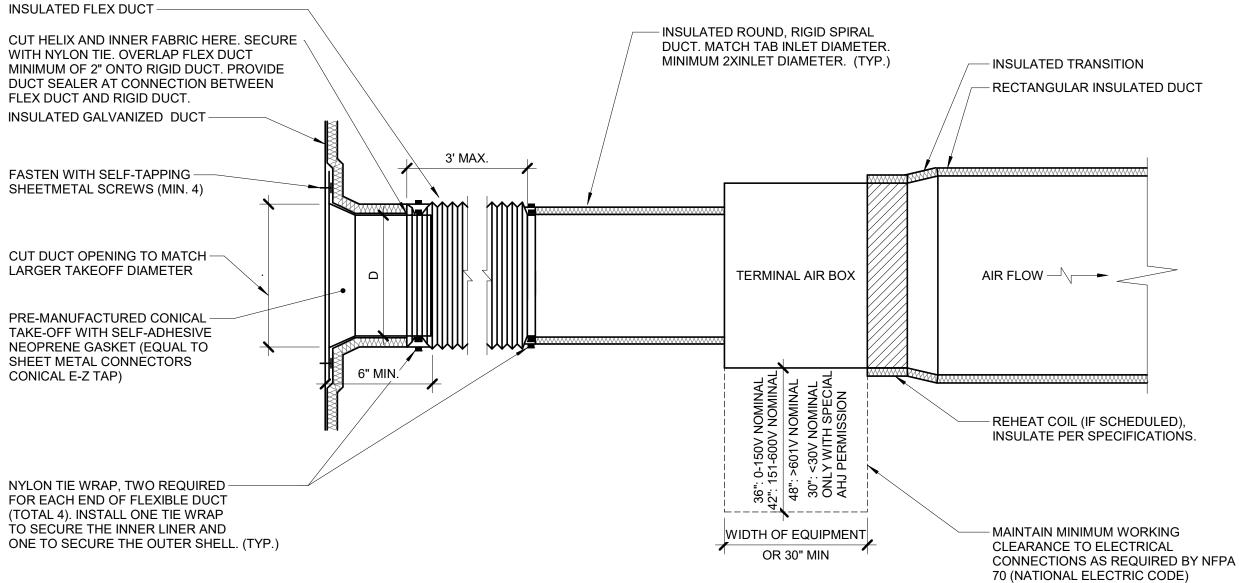


#### **TERMINAL AIR BOX DETAIL** 6 (WR, NO SCALE (WRAPPED MAIN)



NOTES:

UPSTREAM.



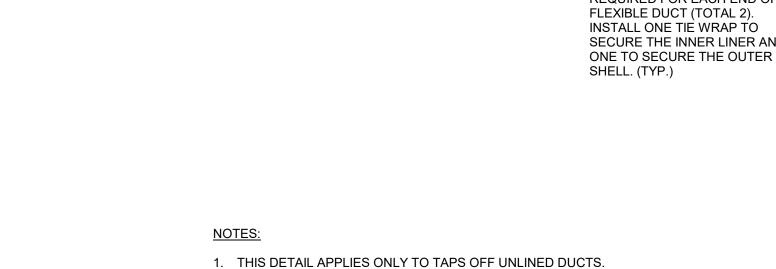
1. THIS DETAIL APPLIES ONLY TO TAPS OFF WRAPPED DUCTS.

4. MAINTAIN VAPOR BARRIER FROM MAIN TO BRANCH DUCT.

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

# FLEX DUCT CONNECTION (3) (CONICAL/WRAPPED) NO SCALE

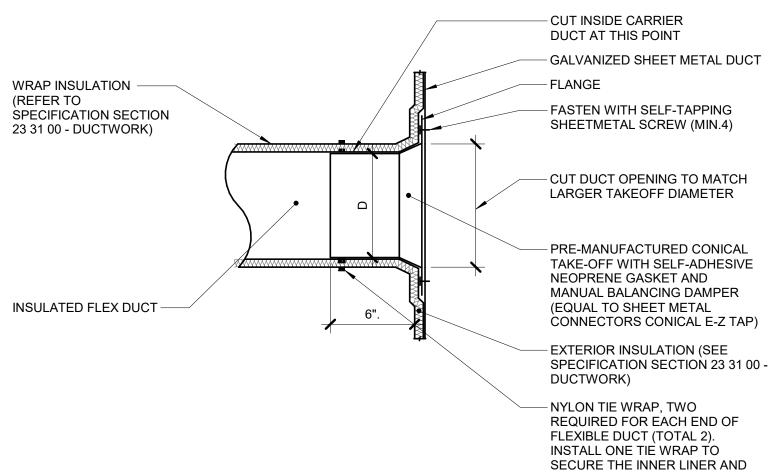


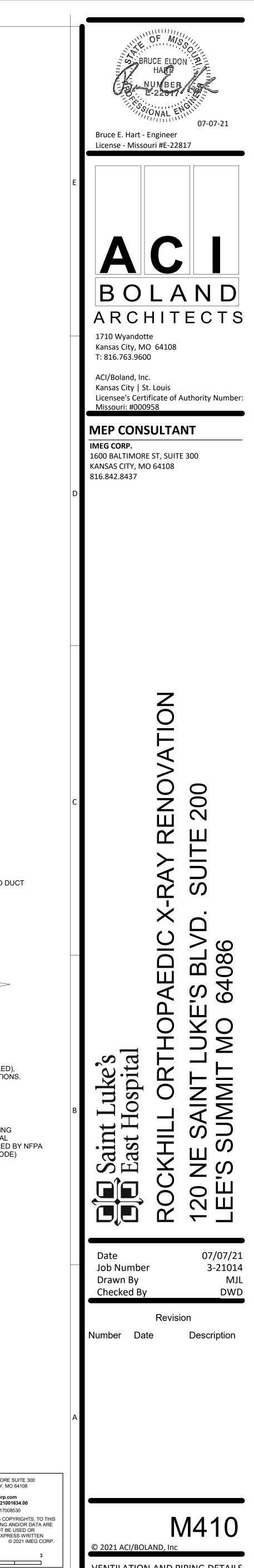
OVER 12" DIAMETER.

2. TAP DOES NOT NEED TO BE CONICAL IF THE TAP IS NOT

LOCATED BETWEEN FANS AND TERMINAL AIR BOXES, DUCT IS

NOT OVER 2" PRESSURE CLASS, AND ROUND DUCT IS NOT





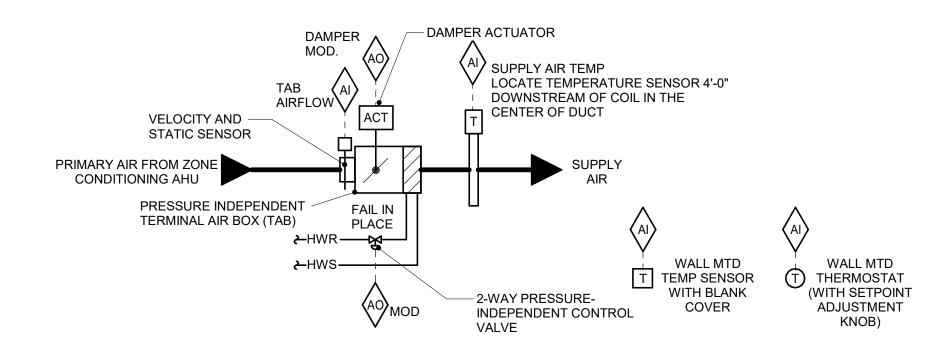
VENTILATION AND PIPING DETAILS

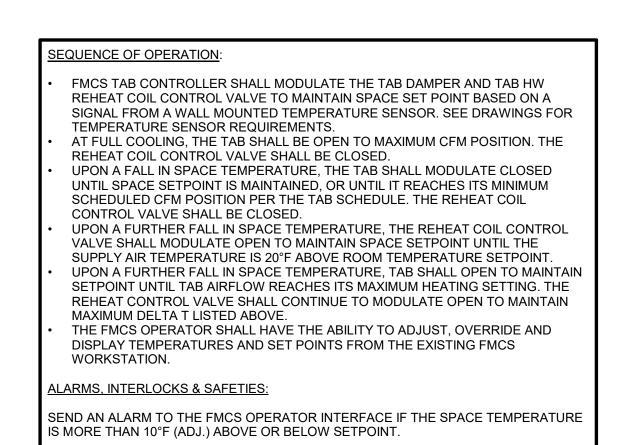
AIR T	ERMINA
NOTES: 1.CONTRAC 2.REFER TO	CTOR SHALL DE D DRAWINGS F
TAG NAME	FACE SIZE (I (NOTE 2)
RA	24x12
SD-1	24x24

## AL SCHEDULE

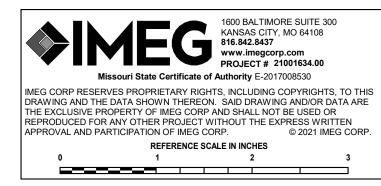
	MINE PROPER BORDE IECK SIZE. ALL BRANC					LESS NOTED OTHERWI	SE.	
IN.)	TYPE	BORDER (NOTE 1)	MATERIAL	FINISH	VOLUME DAMPER REQUIRED	MANUFACTURER	MODEL	NOTES
	HORIZONTAL FACE 45° DEFLECTION	LAY-IN	STEEL	WHITE	NO	TITUS	23RL	OMIT SCREW HOLES IN LAY-IN CEILING
	SQUARE PLAQUE	LAY-IN	STEEL	WHITE	NO	TITUS	OMNI	

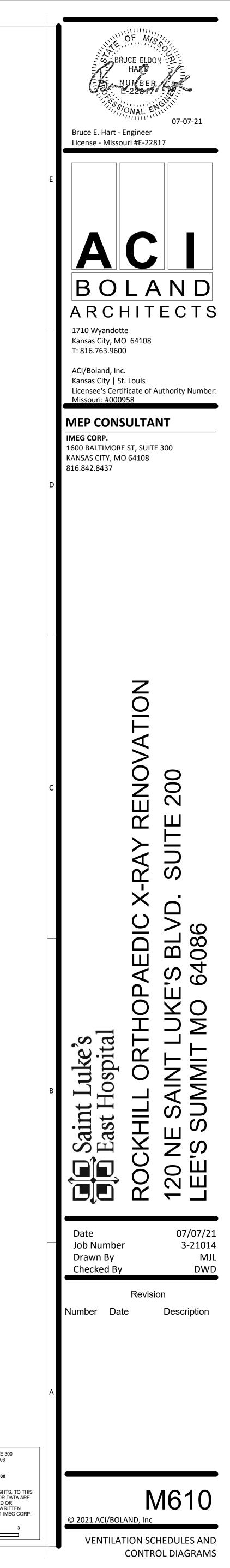
TERM	IINAL A	AIR BO	X SC	HED	ULE	- S	INGL	E DUCT			
DENSITY M 2.TOTAL AI 3.HEATING REQUIRED 4.HEATING	INERAL FIBEI IR PRESSURE COIL IS BASE TO MEET WA COIL SELEC	R CEILING TIL DROP OF TA D ON HEATIN TER PRESSU	E. B AND R IG AIR FI RE DROI E BASEI	EHEAT ( LOW. WA P REQUIE D ON A FI	COIL SHA ATER PR REMENT IXED LEA	ALL NOT ESSURE S. WHE	EXCEED DROP O N LAT °F,	0.50" WC. F REHEAT COIL EWT °F, AND GP	S SHALL NOT EXCEED 5 M VALUES ARE BLANK, F	. PROVIDE REHEA HEATING COIL IS N	STANDARD 885-2008 USING 5/8" 20-LB T COILS SEPARATE FROM BOXES IF OT REQUIRED FOR TAB. XIMUM FLOW RATE (GPM) TO TEST &
		CFM		HEAT	TING CO	IL (NOTE	ES 3, 4)				
TAG	COOLING	HEATING				EWT	MAX.	MIN. INLET		MODEL	
NAME	MAX.	MAX.	MIN.	EAT °F	LAT °F	°F	GPM	SIZE (IN.) DIA.	MANUFACTURER	(NOTES 1, 2)	NOTES
E3-2E51	500	500	500	55.0	85.0	180	1.1	8"	TITUS	DESV	NOTES 1, 2, 3, 4
E3-2E83	600	600	600	55.0	85.0	180	1.3	8"	TITUS	DESV	NOTES 1, 2, 3, 4





1 TAB CONTROL W/ HOT WATER REHEAT - TAB-X



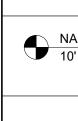


	PLUMBING SYMBOL LIST	
	NOT ALL SYMBOLS MAY APPLY.	
BOL:	DESCRIPTION:	
/ V	ACID VENT ACID WASTE	
۷ <u> </u>	COMPRESSED AIR	
v——	COLD WATER - POTABLE	
	DRAIN	
	DEIONIZED WATER	
ſ——		
	NATURAL GAS	
.V——	GAS REGULATOR VENT	
AN /	SANITARY DRAINAGE (GREASE SANITARY DRAINAGE) GREASE VENT	
v	HOT WATER - POTABLE	
′C——	HOT WATER CIRCULATING - POTABLE	
140—	HOT WATER - POTABLE NUMBER INDICATES TEMP	
140—	HOT WATER CIRC POTABLE NUMBER INDICATES TEMP	
<u> </u>		
۹ G	MEDICAL AIR MEDIUM PRESSURE GAS	
/	MEDICAL VACUUM	
	NITROGEN	
w—	NON-POTABLE COLD WATER	
w—	NON-POTABLE HOT WATER	
)— 		
۲ <u> </u>	OIL RETURN OIL SUPPLY	
	OXYGEN	
	PROPANE GAS	
) <u> </u>		
v— >	PURE WATER REVERSE OSMOSIS WATER	
N	SANITARY DRAINAGE	
w—	SOFT COLD WATER	
w—	SOFT HOT WATER	
000)—		
s N	STORM DRAINAGE (SECONDARY) SOFT TEMPERED WATER	
v	TEMPERED WATER	
·	VENT	
с—	LAB VACUUM	
	SERVICE WATER - POTABLE	
GD—	WASTE ANETHESIA GAS DISPOSAL	
<del></del> ~	PIPE CONTINUATION	
	PIPE DOWN PIPE UP OR UP/DOWN	
	PIPE SERVING FIXTURE ON FLOOR ABOVE	
FD	(EXAMPLE: FD = FLOOR DRAIN)	
	PITCH PIPE IN DIRECTION DIRECTION OF FLOW IN PIPE	
	ROUTE TO DRAIN	
<u>-1</u>	SVMDOL	
1000)	SIZE (ROOF SQ. FT.)	
	DIELECTRIC CONNECTION UNION/FLANGE	
	SHUTOFF VALVE NORMALLY OPEN	
<b>—</b>	SHUTOFF VALVE NORMALLY CLOSED	
GPM_	BALANCING VALVE (NUMBER INDICATES GPM)	
	CHECK VALVE	
ŇM	BACKFLOW PREVENTER	
≈	SOLENOID VALVE	
۹ ۱۹-۲	SAFETY/RELIEF VALVE	
<b>1</b>		
Ē		
-(P)	PRESSURE GAUGE (FURNISHED WITH BALL VALVE)	
-[P] 1	PRESSURE SENSOR (FURNISHED WITH BALL VALVE)	
] F	TEMPERATURE SENSOR WITH WELL	
)	THERMOMETER WITH WELL (DIAL TYPE)	
F		
 F	THERMOMETER WITH WELL (FILLED TYPE)	
	REDUCER - REFERENCE SPECIFICATION	
<u>}</u>	FOR CONCENTRIC/ECCENTRIC AND FOT/FOB PRESSURE REDUCING VALVE (LIQUID/GAS)	
<b>}</b>	PUMP	
9 i)	METER	
;/ <b>=</b>	ALIGNMENT GUIDE	I
!/ =	ALIGNMENT GUIDE PIPE ANCHOR	

ABBR:

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> 'TAG'-<u>TAG-</u>

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	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
	NOT IN CONTRACT
	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 NOTED OTHERWISE
	YARD CLEANOUT
-	

(	CONTRACTOR ABBREVIATION KEY				
	DESCRIPTION:				
	ASBESTOS ABATEMENT CONTRACTOR				
	AUDIO/VISUAL CONTRACTOR				
	CIVIL CONTRACTOR				
	CONSTRUCTION MANAGER				
	ELECTRICAL CONTRACTOR				
	FIRE PROTECTION CONTRACTOR				
	FOOD SERVICE CONTRACTOR				
	GENERAL CONTRACTOR				
	HEATING CONTRACTOR				
	MECHANICAL CONTRACTOR				
	NURSE CALL CONTRACTOR				
	PLUMBING CONTRACTOR				
	SECURITY CONTRACTOR				
	TECHNOLOGY CONTRACTOR				
	TEMPERATURE CONTROLS CONTRACTOR				
	VENTILATION CONTRACTOR				

	VIEW	<u>/ KEY</u>
AME — )' - 0" —		1
	1	NDICATES DIRECTION OF TRUE NORTH
	— P	LAN OR DETAIL NUMBER
	P	PLAN OR DETAIL NAME
$\bigwedge$	<b>VIÉW</b>	NAME
	1/8" = 1'-0"	
NORTH		PLAN OR DETAIL SCALE
	SIM IN MULTIPLE LOC	ED TO BY SECTION CUT
PE AND 1	TAG KEY:	
	THIS CONTRACTOR (WIDE LINE	Ξ)
E	XISTING TO BE REMOVED (SH	IORT DASHED PATTERN) RGROUND (LONG DASHED PATTERN)
	MAIN OR WORK BY OTHERS (N	NARROW LINE)
E		OTHERS (SHORT DASHED PATTERN) NDERGROUND (LONG DASHED PATTERN)
NING DC	DES NOT MODIFY SCOPE.	
G'-E T	AGS WITH DASH 'E' INDICATES	S THE REFERENCED OBJECT IS EXISTING
		ADDITIONAL INFORMATION CAN BE FOUND MATERIAL LIST, OR SYMBOL LIST
	NDICATES AN EXISTING SYSTE	EM'S POINT OF CONNECTION/REMOVAL

#### **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
- 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. REFER TO SPECIFICATION SECTION 22 05 05 FOR ADDITIONAL DEMOLITION INFORMATION.
- 10. P.C. SHALL CUT AND PATCH EXISTING AS REQUIRED FOR NEW OR DEMOLITION WORK UNLESS NOTED OTHERWISE. REFER TO SPECIFICATION SECTION 22 05 05 FOR ADDITIONAL INFORMATION.

## **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 FINISH 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 AND WALL PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND
- DUCTS PENETRATE 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 MINIMUM 3'-6" CLEARANCE IN FRONT OF ALL ELECTRICAL PANELS, MOTOR
- STARTERS, SWITCHES, AND DISCONNECTS. 16. PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL
- EXTEND MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT. 17. 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.

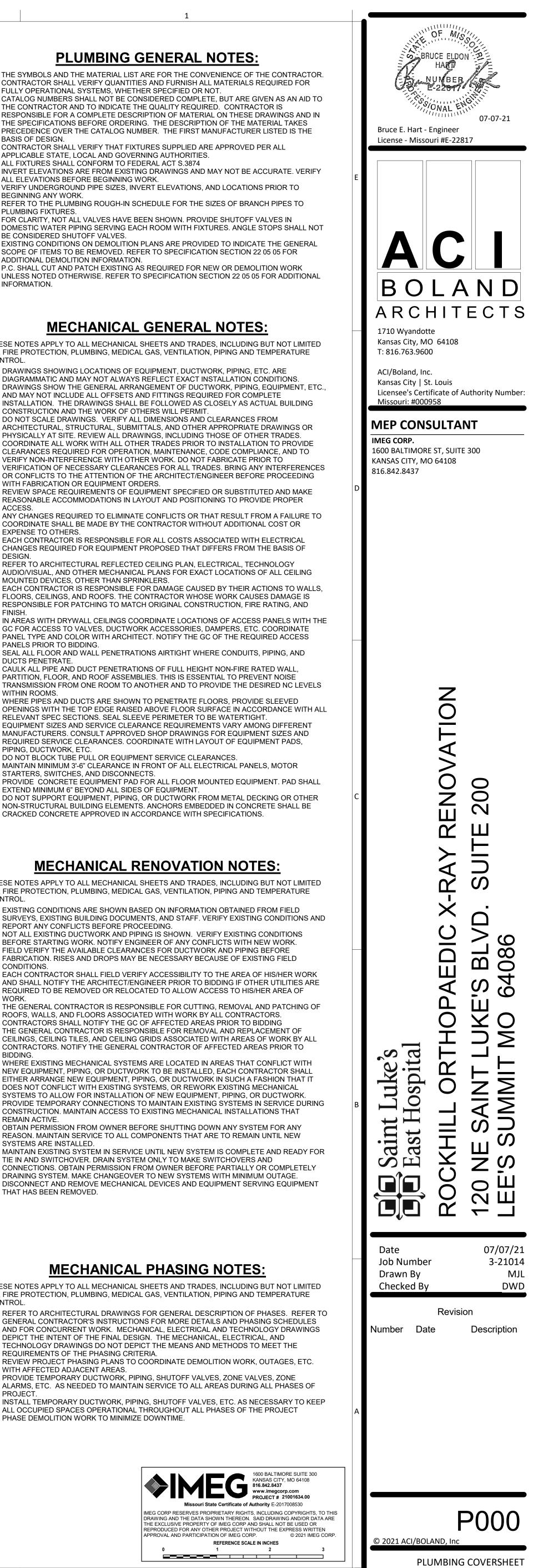
## **MECHANICAL RENOVATION NOTES:**

- THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE CONTROL. 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 HIS/HER WORK AND SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO BIDDING IF OTHER UTILITIES ARE REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO HIS/HER 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. 11. DISCONNECT AND REMOVE MECHANICAL DEVICES AND EQUIPMENT SERVING EQUIPMENT THAT HAS BEEN REMOVED.

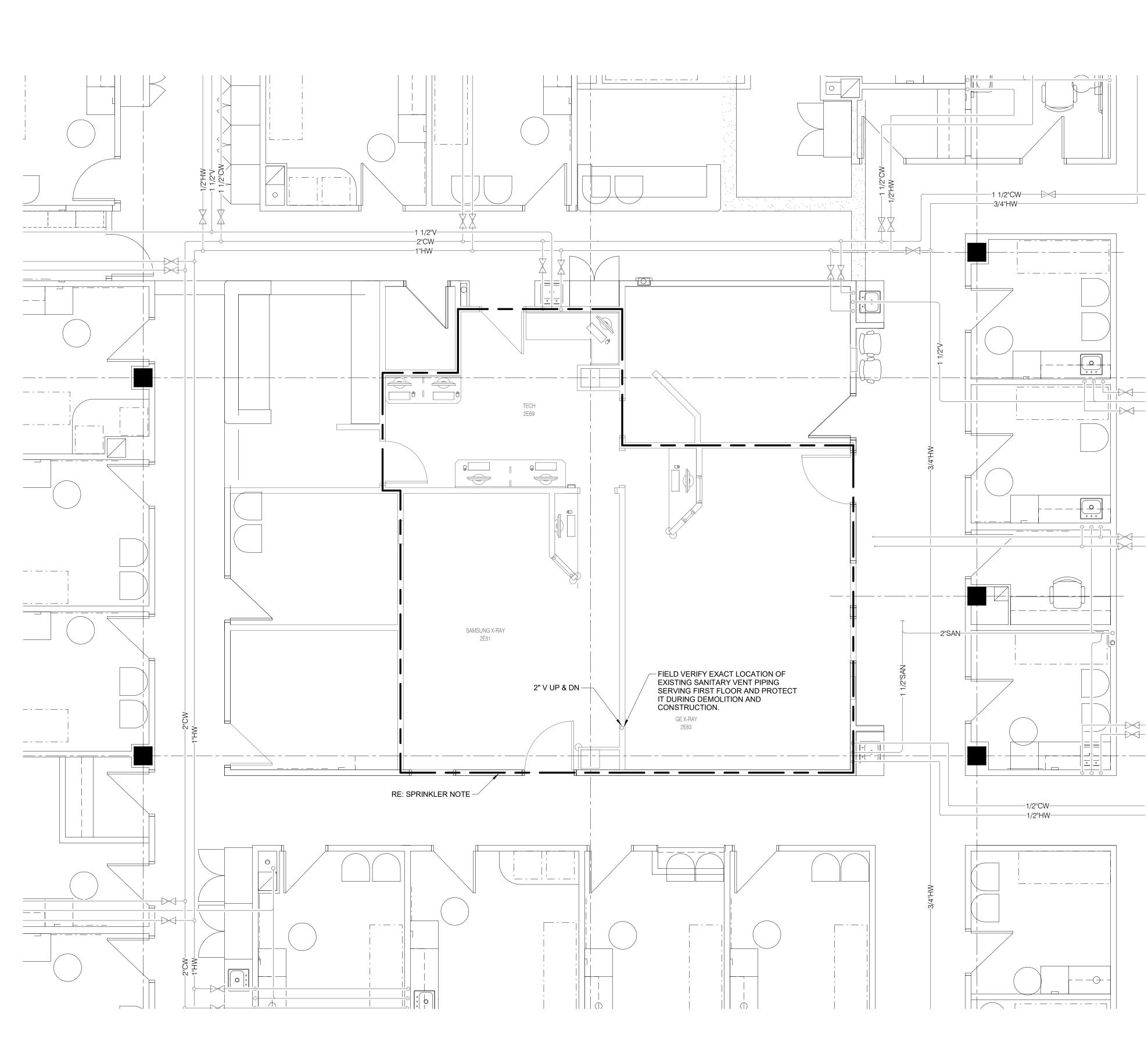
### **MECHANICAL PHASING NOTES:**

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

- 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.



5



4

3

3

SECOND FLOOR - PLUMBING

4

"0R"

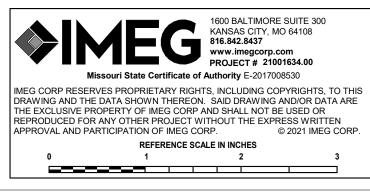
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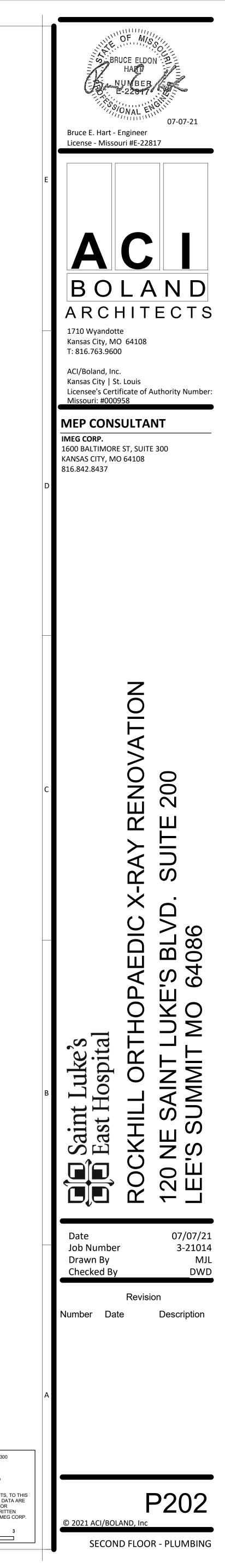
SHEET NOTES:

1. REFER TO GENERAL NOTES ON SHEET P000.

#### SPRINKLER NOTE:

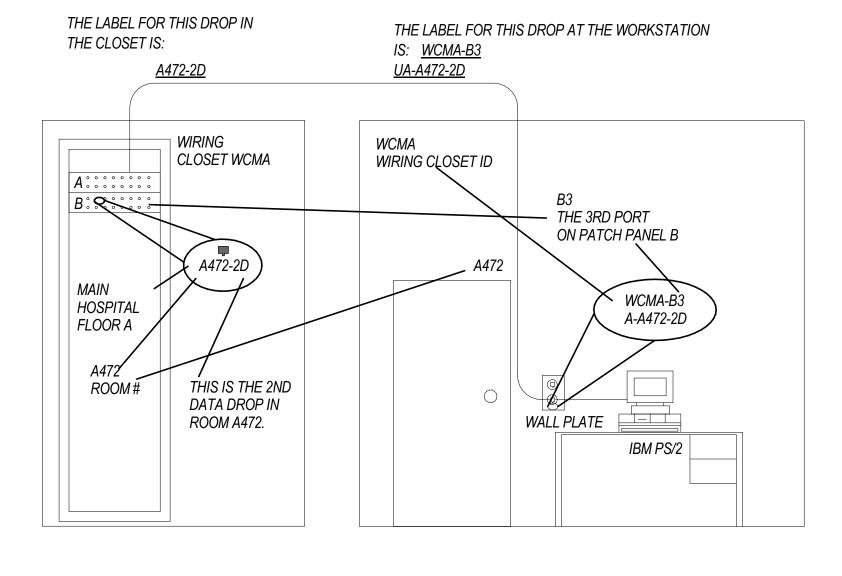
SPRINKLER CONTRACTOR SHALL DISCONNECT, REMOVE AND RELOCATE ANY AND/OR ALL SPRINKLER PIPING AND SPRINKLER HEADS AS REQUIRED BY MECHANICAL, ELECTRICAL AND GENERAL CONTRACTORS. AFTER ALL LARGER DUCTWORK AND PIPING HAVE BEEN INSTALLED, SPRINKLER CONTRACTOR SHALL REINSTALL SPRINKLER PIPING AND HEADS REQUIRED TO SPRINKLER REMODELED SPACE. SPRINKLER CONTRACTOR SHALL ALSO INSTALL NEW SPRINKLER HEADS AND/OR PIPING AS REQUIRED BY REMODEL OF SPACE. ALL SPRINKLER HEADS SHALL BE CONCEALED TYPE. SPRINKLERS MAY NOT BE ALLOWED IN CERTAIN AREASS OF THE CEILING, WHERE RESTRICTED IN THE X-RAY EQUIPMENT DRAWINGS.





		AV SYMBOL LIST				AV SYMBOL LIST		ELECTRICA	L SYMBOL LIST		ELEC	TRICAL SYMBOL LIST		ELECTRIC	AL SYMBOL LIST
YMBOL:	EQUIPMENT LIST	DESCRIPTION:	NOTE:	SYMBOL:	EQUIPMENT LIST	DESCRIPTION: NOTE:	SYMBOL:	TAG:	DESCRIPTION:	SYMBOL:	TAG:	DESCRIPTION:	SYMBOL:	TAG:	DESCRIPTION:
L	ABBREVIATION:					:	GB	GB	GROUND BUS	S	<u>SW-1P</u>	SWITCH - SINGLE POLE		FA-110	FIRE FIGHTERS PHONE
S1	<u>PA-S1-C</u>	FACILITY PAGING SPEAKER (CEILING) TYPE 1		AA	ID-AA-W	INTRUSION DETECTION AUDIBLE ALARM (WALL)	IBT	IBT	INTERSYSTEM BONDING TERMINATION	S <sub>M</sub>	<u>SW-1P-M</u>	SWITCH - MOMENTARY CONTACT	SD SD	FA-120	FIRE ALARM SMOKE DETECTOR - CE MOUNTED
S1	<u>PA-S1-W</u>	FACILITY PAGING SPEAKER (WALL) TYPE 1		DC	ID-DC-W	INTRUSION DETECTION DOOR CONTACT SWITCH (WALL) .	E	ECONN	ELECTRICAL CONNECTION	S <sub>2</sub>	<u>SW-2P</u> <u>SW-3W</u>	SWITCH - TWO POLE SWITCH - THREE WAY		FA-122	FIRE ALARM DUCT SMOKE DETECTO
	<u>1 A-01-W</u>							IR	JUNCTION BOX	S <sub>4</sub>	<u>SW-4W</u>	SWITCH - FOUR WAY		FA-122 FA-123	FIRE ALARM IN DUCT SMOKE DETECTO
H1	<u>PA-H1-W</u>	FACILITY PAGING LOUD SPEAKER HORN (WALL) TYPE 1		<b>D</b> R	ID-DR-UC	INTRUSION DETECTION DURESS/PANIC BUTTON (UNDER COUNTER)		36		D <sub>D</sub>	SW-D-LED	DIMMER - LED, COMPATIBLE WITH FIXTURE		FA-130	FIRE ALARM MANUAL PULL STATION
CR	N/A	SECURITY CREDENTIAL READER (WALL) EXISTING		DR	ID-DR-W	INTRUSION DETECTION DURESS/PANIC BUTTON (WALL)		FB-#	FLOOR POKE-THRU - DUPLEX RECEPTACLE		SW-D3-LED	DRIVER DIMMER - LED - 3-WAY, COMPATIBLE WITH		FA-140	FIRE ALARM HEAT DETECTOR
CR1	AC-CR1-W	SECURITY CREDENTIAL READER (WALL) TYPE 1		MD	ID-MD-C	INTRUSION DETECTION MOTION DETECTOR (CEILING)		FB-# FB-#	FLOOR POKE-THRU - DUAL COMPARTMENT			FIXTURE DRIVER		FA-150	FIRE ALARM CARBON
							Ø <sub>SV</sub>	FB-#	FLOOR - SERVICE FITTING		<u>SW-OC-D-W</u>	OCCUPANCY SENSOR - DUAL TECHNOLOGY - WALL MOUNTED			MONOXIDE/HEAT/SMOKE DETECTOR
DC	AC-DC-W	SECURITY DOOR CONTACT SWITCH (WALL)		MD	<u>ID-MD-W</u>	INTRUSION DETECTION MOTION DETECTOR (WALL)		RI-TV	TV ANTENNA OUTLET ROUGH-IN	\$ <sub>O2</sub>	<u>SW-OC-P-O2</u>	SWITCH - OCCUPANCY SENSOR AND DUAL SWITCH	MM	FA-160	FIRE ALARM ADDRESSABLE MONITO
DR	<u>AC-DR-S</u>	SECURITY DURESS/PANIC BUTTON (SURFACE)		SP	N/A	AV PERFORMANCE AUDIO SPEAKER (CEILING) EXISTING .		WM-#	MULTI OUTLET SYSTEM		SW-OC-P-P	OCCUPANCY SENSOR - PASSIVE INFRARED	AR (SD)	FA-161 FA-170	FIRE ALARM RELAY SMOKE DETECTOR - STAND ALONE
DR	AC-DR-W	SECURITY DURESS/PANIC BUTTON (WALL)		(SP1)	<u>AV-SP1-C</u>	AV PERFORMANCE AUDIO SPEAKER (CEILING) TYPE 1		WW-#	ELECTRICAL WIREWAY w/ DEVICES SHOWN		<u>SW-OC-P-P2</u>	360 DEGREE COVERAGE OCCUPANCY SENSOR - PASSIVE INFRARED		FA-171	SMOKE DETECTOR - STAND ALONE 1
$\frown$		SECURITY ELECTRONIC DOOR RELEASE						PANEL '###'	PANELBOARD - RECESS MOUNT			100 DEGREE COVERAGE			CANDELA
(EDR)	AC-EDR-UC	(UNDERCOUNTER)		♥	N/A	VIDEO SURVEILLANCE DOME CAMERA .		PANEL '###'	PANELBOARD - SURFACE MOUNT	OC P	<u>SW-OC-P-W</u>	OCCUPANCY SENSOR - PASSIVE INFRARED - WALL MOUNTED		FA-200	FIRE ALARM VISUAL NOTIFICATION DEVICE - WALL MOUNTED
EDR	AC-EDR-W	SECURITY ELECTRONIC DOOR RELEASE (WALL)			N/A	VIDEO SURVEILLANCE LINEAR CAMERA .		MX-#/MS-# /CB-#/CS-#	MANUAL SWITCH / STARTER / COMBINATION STARTER/ CIRCUIT BREAKER.	ω	<u>SW-OC-U</u>	OCCUPANCY SENSOR - ULTRASONIC 360 DEGREE COVERAGE		FA-201	FIRE ALARM VISUAL NOTIFICATION
KP	N/A	SECURITY KEYPAD (WALL) EXISTING		## - ##				DS-#	DISCONNECT		<u>SW-OC-U2</u>	OCCUPANCY SENSOR - ULTRASONIC 35'X30'			DEVICE - CEILING MOUNTED
	<u>AC-KP1-W</u>	SECURITY KEYPAD (WALL) TYPE 1		## - ##	N/A	VIDEO SURVEILLANCE PANERAMIC 180 CAMERA					<u>SW-OC-U-A</u>	HAND MOTION COVERAGE OCCUPANCY SENSOR - ULTRASONIC TWO	V11 V33 V77 VHH	<u>FA-202</u>	EMERGENCY NOTIFICATION - VISUAL WALL MOUNTED
	<u>//o ni i w</u>	· · · · ·			N/A	VIDEO SURVEILLANCE PANERAMIC 360 CAMERA .		ELECTRICA	L SYMBOL LIST		<u>311-00-0-A</u>	SIDED CORRIDOR COVERAGE		FA-210	FIRE ALARM AUDIO NOTIFICATION DE
PP		PUSH PAD/PUSH TO EXIT					SYMBOL:	TAG:	DESCRIPTION:	OC U	<u>SW-OC-U-W</u>	OCCUPANCY SENSOR - ULTRASONIC - WALL MOUNTED			WALL MOUNTED
C# □ <b>▼</b>	<u>SC-IO-FB</u>	ELECTRICAL FLOOR BOX WITH TECHNOLOGY	1,2	<b>9</b> ## - ##	N/A	VIDEO SURVEILLANCE PTZ PANORAMIC CAMERA	<b>-</b>	REC-DUP	DUPLEX RECEPTACLE, 125V	SW	<u>SW</u>	WALL CONTROL STATION	A7 AH	FA-211	FIRE ALARM AUDIO/VISUAL NOTIFICA DEVICE - WALL MOUNTED
© <sup>C#</sup>	<u>SC-IO-C</u>	INFORMATION OUTLET (CEILING)	1,2	СМ-# ##-##	<u>VS-CM-#</u>	VIDEO SURVEILLANCE CAMERA 180° FOV (CEILING/HORIZONTAL SURFACE)	₩ ₩	REC-DUP-GFI	DUPLEX GFI RECEPTACLE, 125V	TC	<u>TC-#</u>	TIME SWITCH	AS		
				См-#	<u>VS-CM-#</u>	VIDEO SURVEILLANCE CAMERA 180° FOV (WALL/VERTICAL SURFACE)	U =	REC-USB	DUPLEX RECEPTACLE, USB CHARGING				A11 A33 A77 AHH	<u>FA-220</u>	EMERGENCY NOTIFICATION - AUDIO/VISUAL - WALL MOUNTED
	N/A	INFORMATION OUTLET (CEILING) EXISTING				VIDEO SURVEILLANCE CAMERA 270° FOV		REC-SIM-520R REC-SIM-530R	SIMPLEX RECEPTACLE, 125V RECEPTACLE, 125V	[#B#F]	<u>SW-LCS</u>	DIMMER CONTROL STATION WITH FADERS	AS#		
▼ <sup>C#</sup>	<u>SC-IO-F</u>	INFORMATION OUTLET (FLOOR)	1,2	(Õ) CM-# ##-##	<u>VS-CM-#</u>	(CEILING/HORIZONTAL SURFACE)		REC-SIM-550R	RECEPTACLE 125V, 50A, 125V	s s	<u>SW-LV</u> <u>SW-OC-P-O</u>	WATTSTOPPER DSW-301 SERIES DUAL	A1)A33A77	<u>FA-221</u>	EMERGENCY NOTIFICATION -
$\bigtriangledown$	N/A	INFORMATION OUTLET (FLOOR) EXISTING		(Õ) CM-#	<u>VS-CM-#</u>	VIDEO SURVEILLANCE CAMERA 270° FOV (WALL/VERTICAL SURFACE)	<b>□ □</b>	REC-SIM-620R	RECEPTACLE, 6-20R, 250V	<b>3</b> 0	<u>3W-0C-P-0</u>	TECHNOLOGY WALL SWITCH WITH MOTION SENSOR	(1)(33(77)		AUDIO/VISUAL - CEILING MOUNTED
C#		INFORMATION OUTLET (WALL)	1.0	© CM-#	<u>VS-CM-#</u>	VIDEO SURVEILLANCE CAMERA 360° FOV (CEILING/HORIZONTAL SURFACE)		REC-SIM-630R	RECEPTACLE, 6-30R, 250V	D	<u>SW-OD</u>	WATTSTOPPER DW-311 SERIES 0-10V		<u>FA-222</u>	EMERGENCY NOTIFICATION - VISUAL ONLY - CEILING MOUNTED
•	<u>SC-IO-W</u>	INFORMATION OUTLET (WALL)	1,2			VIDEO SURVEILLANCE CAMERA 360° FOV		REC-SIM-650R REC-SIM-1420R	RECEPTACLE, 6-50R, 250V RECEPTACLE, 14-20R, 125/250V	0		DIMMABLE WALL SWITCH WITH DUAL TECHNOLOGY MOTION SENSOR		FA-230	FIRE ALARM AUDIO NOTIFICATION
$\bigtriangledown$	N/A	INFORMATION OUTLET (WALL) EXISTING		<b>()</b> CM-# ##-##	<u>VS-CM-#</u>	(WALL/VERTICAL SURFACE)		REC-SIM-1420R	RECEPTACLE, 14-20R, 125/250V RECEPTACLE, 14-30R, 125/250V	s <sub>T</sub>	<u>SW-1P-ADJ</u>	WATTSTOPPER TS-400 SERIES DIGITAL TIME SWITCH.			DEVICE - CEILING MOUNTED
RI-AV# ▼	<u>AV-RI-AV#</u>	INFORMATION OUTLET AV ROUGH-IN (WALL)	1,2	(O) CM-# ##-##	<u>VS-CM-#</u>	VIDEO SURVEILLANCE CAMERA DUAL LENS FOV (CEILING/HORIZONTAL SURFACE)	⇒	REC-SIM-1450R	RECEPTACLE, 14-50R, 125/250V	#B <sub>XX</sub>	SW-DCS	WATTSTOPPER DIGITAL LIGHTING	A1A3 A7AH	FA-231	FIRE ALARM AUDIO/VISUAL NOTIFICA DEVICE - CEILING MOUNTED
$\nabla$	N/A	INFORMATION OUTLET AV ROUGH-IN (WALL) EXISTING		( <b>C)</b> CM-#	<u>VS-CM-#</u>	VIDEO SURVEILLANCE CAMERA DUAL LENS FOV (WALL/VERTICAL SURFACE)		REC-SIM-L520R	RECEPTACLE, LOCKING TYPE, L5-20R, 125V			MANAGEMENT CONTROL STATION KEYPAD WITH PROGRAMMABLE FUNCTION BUTTONS. REFER TO DETAILS FOR		FA-232	FIRE ALARM CM LOUD SPEAKER
∼ RI					<u>VS-CM-#</u>	VIDEO SURVEILLANCE CAMERA SINGLE LENS FOV		REC-SIM-L530R REC-SIM-L620R	RECEPTACLE, LOCKING TYPE, L5-30R, 125V RECEPTACLE, LOCKING L6-20R, 250V			ADDITIONAL REQUIREMENTS. XX INDICATES TYPE:	MH	FA-233	FIRE ALARM AUDIO NOTIFICATION DE
	<u>SC-RI-C</u>	INFORMATION OUTLET ROUGH-IN (CEILING)		O CM-# ##-##		(CEILING/HORIZONTAL SURFACE)	l –∎i	REC-SIM-L630R	RECEPTACLE, LOCKING L6-30R, 250V			S1: ONE BUTTON KEYPAD S2: TWO BUTTON KEYPAD		FA-242	WALL MOUNTED - MINI-HORN FIRE ALARM REMOTE INDICATOR
$\bigcirc$	N/A	INFORMATION OUTLET ROUGH-IN (CEILING) EXISTING		• CM-# ##-##	<u>VS-CM-#</u>	(WALL/VERTICAL SURFACE)	-\$1	REC-SIM-L1420R	RECEPTACLE, LOCKING L14-20R, 125/250V			S3: THREE BUTTON KEYPAD S4: FOUR BUTTON KEYPAD		FA-241	AND TEST SWITCH FIRE ALARM REMOTE INDICATOR
RI	SC-RI-F	INFORMATION OUTLET ROUGH-IN (FLOOR)		CAM	VS-CAM-W	CLOSED CIRCUIT TELEVISION (CCTV) WALL CAMERA		REC-SIM-L1430R REC-TAMP	RECEPTACLE, LOCKING L14-30R, 125/250V DUPLEX RECEPTACLE. TAMPER RESISTANT, 125V			S5: FIVE BUTTON KEYPAD S8: EIGHT BUTTON KEYPAD	SD	FA-250	FIRE ALARM SMOKE DAMPER
								REC-TAMP-GFI	GFI DUPLEX RECEPTACLE,	R <sub>x</sub>		D1: ONE ROCKER BUTTON KEYPAD WATTSTOPPER DIGITAL LIGHTING	ARD	FA-251	SMOKE OR FIRE DAMPER CONTROL
$\bigtriangledown$	N/A	INFORMATION OUTLET ROUGH-IN (FLOOR) EXISTING		CAM	VS-CAM-C	CLOSED CIRCUIT TELEVISION (CCTV) CEILING CAMERA		REC-TAMP-QUAD	TAMPER RESISTANT, 125V QUAD RECEPTACLE, TAMPER RESISTANT, 125V			MANAGEMENT ROOM CONTROLLER. REFER TO DETAILS FOR SYSTEM	HDS <sub>#</sub>	FA-253	FIRE ALARM HOISTWAY DAMPER SW
RI ▼	<u>SC-RI-W</u>	INFORMATION OUTLET ROUGH-IN (WALL)				GENERAL NOTES:		REC-QUAD	QUAD RECEPTACLE, 125V			INTERCONNECTION REQUIREMENTS. X INDICATES TYPE. A. ONE RELAY SWITCHING CONTROLLER:	(SD)	FA-254	FIRE ALARM SMOKE DAMPER WITH D
				REFER TO	THE GENERAL	EVIATIONS LISTED MAY NOT BE APPLICABLE TO THIS PROJECT. TECHNOLOGY EQUIPMENT SCHEDULE FOR MORE COMPLETE		REC-QUAD-GFI	QUAD GFI RECEPTACLE, 125V			A. ONE RELAT SWITCHING CONTROLLER. LMRC-101 B. TWO RELAY SWITCHING CONTROLLER:	(FS)	FA-260	FIRE ALARM FLOW SWITCH TO MONI
w	<u>SC-IO-W</u>	INFORMATION OUTLET WALL PHONE (WALL)	2	2. ALL SYMBO		VIATIONS REFER TO TECHNOLOGY SHEETS ONLY AS DEFINED ON		REC-QUAD-USB	QUAD RECEPTACLE, USB 125V POWER POLE			LMRC-102 C. ONE RELAY SWITCHING OR 0-10V		FA-261	PROTECTION SYSTEM FIRE ALARM MONITOR SWITCH TO
•	<u>00 10 W</u>			INFORMAT	FION.	VE ARE FOR REFERENCE ONLY. REFER TO PLAN AND LINE TYPE						DIMMING CONTROLLER: LMRC-211 D. TWO RELAY SWITCHING OR 0-10V		FA-201	MONITOR FIRE PROTECTION SYSTEM
$\bigtriangledown$	N/A	INFORMATION OUTLET WALL PHONE (WALL) EXISTING		KEY FOR N INFORMAT		TO REMAIN AND TO BE REMOVED ITEMS FOR ADDITIONAL		ELECTRICA	L SYMBOL LIST			DIMMING CONTROLLER: LMRC-212 E. THREE RELAY SWITCHING OR 0-10V DIMMING CONTROLLER: LMRC213	PIV	FA-262	FIRE ALARM POST INDICATOR VALVE CONNECTION
WAP	<u>SC-WAP-C</u>	WIRELESS ACCESS POINT WITH ENCLOSURE (CEILING)				TECHNOLOGY SYMBOL NOTES:	SYMBOL:	TAG: SPEC					EB	FA-263	FIRE ALARM ELECTRONIC BELL FOR SPRINKLER SYSTEM
WAP	<u>SC-WAP-W</u>	WIRELESS ACCESS WITH POINT ENCLOSURE (WALL)		CONFIGUR		F DATA CABLES FOR INFORMATION OUTLET FACEPLATE TO CABLE LABELING STANDARD DETAIL ON THIS SHEET FOR		SECTION	LINEAR LUMINAIRES	R <sub>BMS</sub>		WATTSTOPPER DIGITAL LIGHTING MANAGEMENT INPUT/OUTPUT INTERFACE FOR BMS CONTROL OF LIGHTING. PROVIDE	DH	FA-270	FIRE ALARM ELECTROMAGNETIC DC
				ADDITIONA		Ν.			TROFFER			ALL LOW VOLTAGE CABLING AS REQUIRED: LM10-101.		FA-272	HOLD DEVICE FIRE ALARM HOLD OPEN OVERRIDE
									WALL SCONCE LUMINAIRE		<u>SW-OC-D</u>	WATTSTOPPER DIGITAL LIGHTING			CONNECTION
									DOWNLIGHT LUMINAIRE			MANAGEMENT LMDC-100 SERIES DUAL TECHNOLOGY CEILING MOUNT OCCUPANCY		FA-280 DB	ISOLATION MODULE
									AIMABLE OR WALL WASH LUMINAIRE			SENSOR. OCCUPANCY SENSOR SHALL TURNS OFF LIGHTS AFTER 20 MINUTES OF INACTIVITY. PROVIDE ALL LOW VOLTAGE		HD	HAND DRYER
								REFER TO LUMINAIRE	INDUSTRIAL LUMINAIRE			CABLING AS REQUIRED.	PP	PP	PUSH PAD
								SCHEDULE	WALL BRACKET LUMINAIRE	LS)	<u>SW-LS</u>	WATTSTOPPER DIGITAL LIGHTING MANAGEMENT LMLS-105 SERIES	[PB] <sub>EPO</sub>		"EMERGENCY POWER OFF" PUSHBU
									POLE MOUNTED LUMINAIRE			PHOTOCELL. PROVIDE ALL LOW VOLTAGE CABLING AS REQUIRED.		NC-D-C	NURSE CALL DOME LIGHT (CEILING)
							$\otimes$		SINGLE FACE EXIT SIGN	ALCR		WATTSTOPPER ELCU-200 SERIES EMERGENCY LIGHTING CONTROL UNIT.	NE	NC-NE-W	NURSE CALL EMERGENCY CALL STA (WALL)
							$\otimes$		DOUBLE FACE EXIT SIGN			UPON LOSS OF NORMAL POWER,		<u> </u>	
							484		WALL/CEILING EMERGENCY EXIT SIGN			EMERGENCY LIGHTING SHALL TURN ON REGARDLESS OF SWITCH POSITION.			

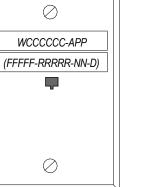
3

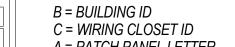


WORKSTATION THE WORKSTATION LABEL WILL BE BASED ON THE LOCATION OF THE DESTINATION IN THE WIRING CLOSET. THE LABEL WILL BE PREFIXED WITH THE WIRING CLOSET IDENTIFICATION THIS IDENTIFICATION IS CROSS REFERENCED IN AN ATTACHED DOCUMENT. A DASH WILL SEPARATE THE PREFIX FROM THE SUFFIX. THE SUFFIX WILL CONSIST OF THE DESTINATION PATCH PANEL LETTER. THE PATCH PANEL LETTER IS DETERMINED BY A LABEL ON THE PATCH PANEL IN THE WIRING CLOSET. THE REMAINDER OF THE SUFFIX WILL CORRESPOND WITH THE PORT NUMBER ON THE PATCH PANEL IN THE WIRING CLOSET.

<u>WIRING CLOSET</u> THE WIRING CLOSET LABEL WILL BE BASED ON THE LOCATION OF THE DESTINATION ROOM. THE LABEL WILL BE PREFIXED WITH THE ROOM NUMBER. A DASH WILL SEPARATE THE PREFIX FROM THE SUFFIX. THE SUFFIX IS DETERMINED BY THE NUMBER OF DROPS IN THE ROOM. THIS NUMBER IS CONVERTED INTO AN ALPHABETIC REPRESENTATION I.E. A=1, B=2 AND C=3.

#### WORKSTATION





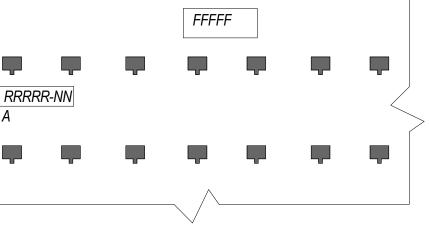


R = ROOM NUMBER

N = UNIQUE SEQUENTIAL NUMBER (IN ROOM) D = DATA

4

#### PATCH PANEL IN CLOSET

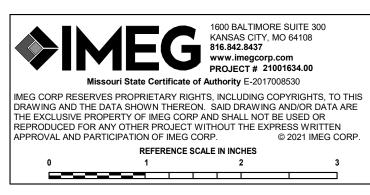


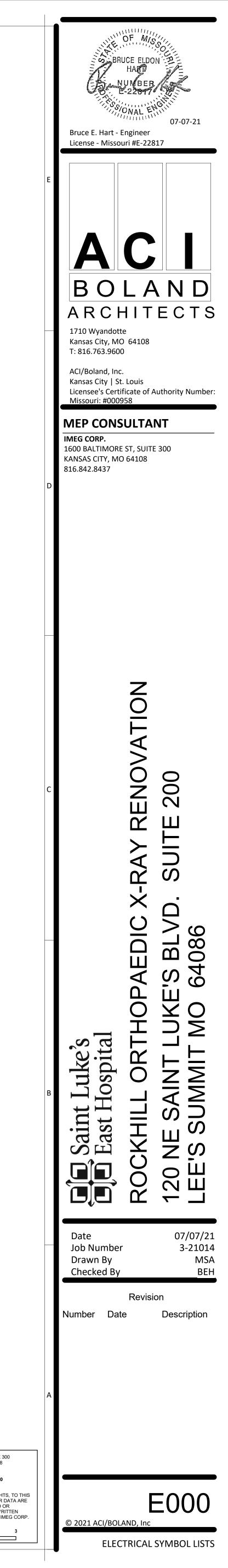
TYPICAL SLHS DATA CABLE LABELING STANDARD

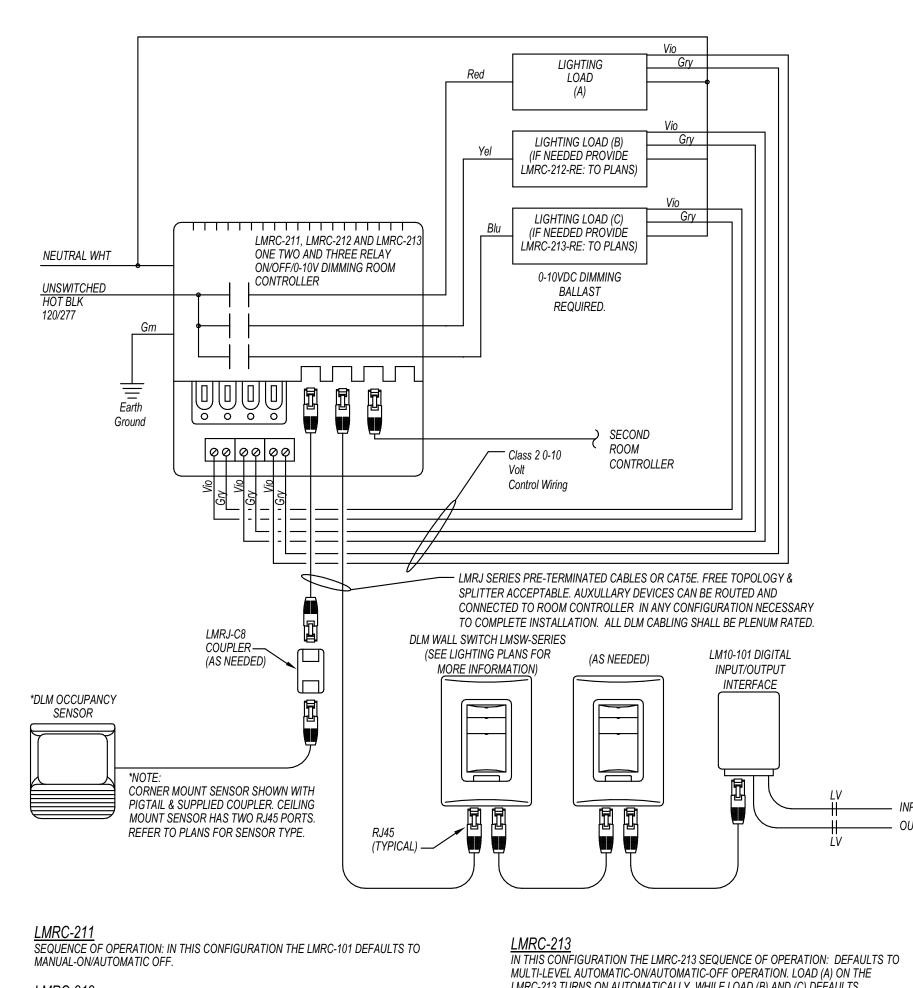
5

	ELECTRICAL ABBREVIATION KEY
ABBR:	DESCRIPTION:
AFF	ABOVE FINISHED FLOOR
С	CONDUIT
EM	INDICATES LIGHT OR DEVICE CONNECTED TO EMERGENCY POWER OR FURNISHED WITH A BATTERY PACK CONNECTED TO A NON-SWITCHED HOT WIRE
GFI	GROUND FAULT INTERRUPTER
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
RL	EXISTING DEVICE OR LIGHT RELOCATED
SV	SOLENOID VALVE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE

SYMBOL:       DESCRIPTION:         O       NORMAL BRANCH LUMINAIRE         O       CRITICAL BRANCH LUMINAIRE         O       EMERGENCY LIFE SAFETY BRANCH LUMINAIRE		LUMINAIRE SYMBOL KEY
CRITICAL BRANCH LUMINAIRE	SYMBOL:	DESCRIPTION:
	o	NORMAL BRANCH LUMINAIRE
EMERGENCY LIFE SAFETY BRANCH LUMINAIRE	Ø	CRITICAL BRANCH LUMINAIRE
		EMERGENCY LIFE SAFETY BRANCH LUMINAIRE







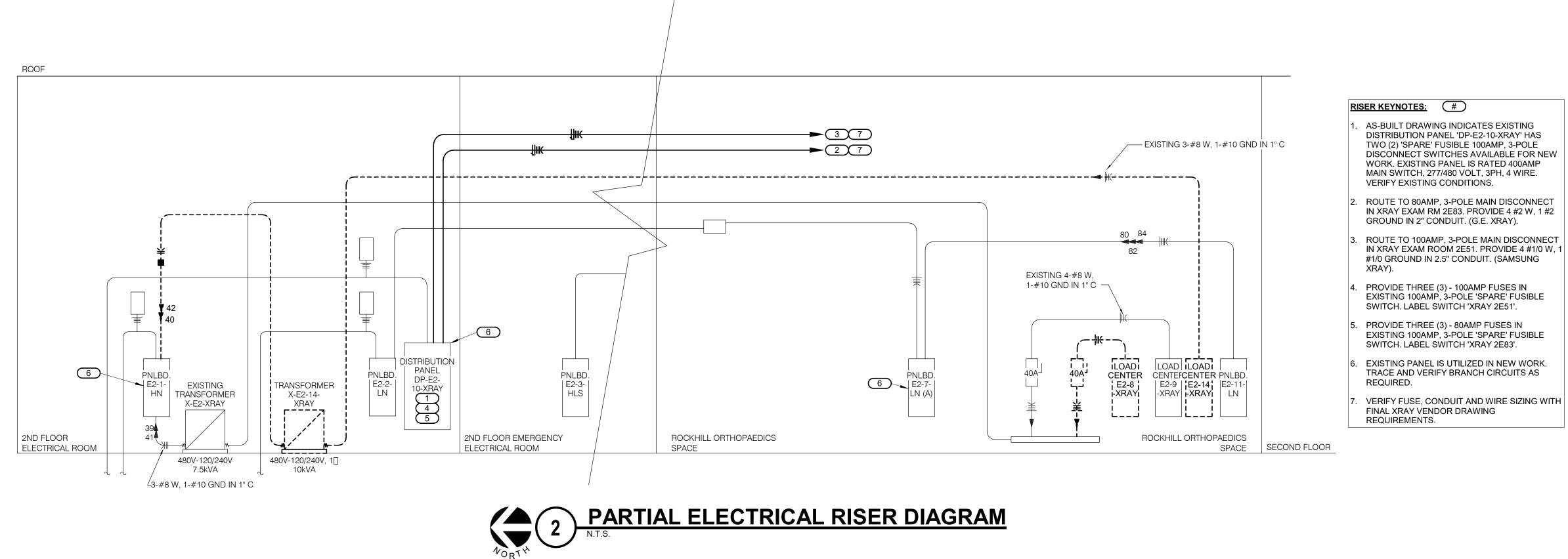
<u>LMRC-212</u> SEQUENCE OF OPERATION: IN THIS CONFIGURATION THE LMRC-102 DEFAULTS TO MULTI-LEVEL AUTOMATIC-ON/AUTOMATIC OFF. LOAD (A) TURNS ON AUTOMATICALLY AND LOAD (B) DEFAULTS TO MANUAL-ON CONTROL; BOTH LOADS TURN AUTOMATICALLY OFF.

LMRC-213 TURNS ON AUTOMATICALLY, WHILE LOAD (B) AND (C) DEFAULTS ENHANCED ROOM TO MANUAL-ON CONTROL; ALL RELAYS TURN OFF AUTOMATICALLY.

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

OWNER.

## DETAIL OF LMRC-211, LMRC-212 AND LMRC-213 ROOM **CONTROLLER CABLING**



	JLE									1. REFER TO DRAWINGS CON
(DESC) DOOR:	DIST	RIBUTION	:		BEAMWIDTH		(L/L) LENS/LOUVER:		K19 - KSH19 .156" ACRYLIC	SHALL MATCH FINAL EQUIP
FA - FLAT ALUMINUM				TRIBUTION		ARROW SPOT			M - MATTE DIFFUSE CLEAR	REFER TO SPECIFICATIONS 2. "NL" INDICATES LUMINAIRE
FS - FLAT STEEL	III - A	ANSI/IES T	PE 3 DIS	STRIBUTION	SP - SPOT		B - BAFFLE/LOUVER		N - NONE	3. "SE" INDICATES LUMINAIRE
RA - REGRESSED ALUMINUM	IV - /	ANSI/IES T	YPE 4 DI	STRIBUTION	MD - MEDIUN	l	C - CLEAR ALZAK		P - POLYCARBONATE	OPERATES FROM EMERGE
RS - REGRESSED STEEL	V - A	ANSI/IES TY	PE 5 DIS	TRIBUTION	WD - WIDE		F - FROSTED ACRYL	С	R - HIGH IMPACT DR ACRYLIC	<ol> <li>SHADED LUMINAIRE OR DEV EMERGENCY CIRCUIT.</li> </ol>
FINISH:					VWD - VERY	WIDE	G - TEMPERED GLAS	S	SS - SEMI-SPECULAR CLEAR	5. REFER TO THIS SHEET FOR
PAF - PAINT AFTER FABRICATION	N				WW - WALL \	VASH	K - KSH12 .125" ACR)	Ί.IC	O - OTHER (SEE DESCRIPTION)	6. REFER TO SHEET E2 FOR LI
CFSA - COLOR-FINISH SELECTIO									[DESIGN SPECIFIC BLANKS]	7. { B#} PUSH BUTTON REFERS
(TYPE) LIGHT SOURCE TECHNOLOGY:							(MTG) MOUNTING:		PL - POLE	OF RAISE/LOWER AND SWIT SHEETS. COORDINATE QUA
DLED - DYNAMIC TUNABLE LED	FL -	FLUORES	CENT		CC - COLD C	ATHODE	CL - CEILING SURFA	CE.	RE - RECESSED	CONTROL MANUFACTURER
LED - LIGHT EMITTING DIODE		COMPACT		SCENT	IND - INDUCT		CV - COVE	-	SP - SUSPENDED	8. VACANCY/OCCUPANCY SEN
OLED - ORGANIC LED		HALOGEN			O - OTHER (S		FR - FLANGED RECE	SSED	SU - SURFACE	DESIGN INTENT AND MAY N
RGB - COLOR CHANGING LED		- HALOGEN				LL DLOO)	O - OTHER (SEE DES		UC - UNDER CABINET	SPECIFIC FLOOR PLAN LAY OF EACH CONTROL DEVICE
RGBA - COLOR CHANGING LED		INCANDES					P - PERIMETER	CITE HON)		MULTIPLE SENSOR DEVICES
									WL - WALL	MANUFACTURER-APPROVE
RGBW - COLOR CHANGING + WH				SODIUM			<b>\</b>	- FIXTURE, FT - F	,	DRAWINGS, EITHER IN PRIN
RLED - RETROFIT LED		- METAL HA					(TYPE) BALLAST/DR		HL - HIGH/LOW (100%/50%) STEP DIM	
TLED - TUBULAR LED LAMP		I - SUPER I					#BF - BALLAST FACT	-	HP - HIGH PERFORMANCE / LBF	LUMINAIRE KEY:
WLED - WARM DIM LED				/ETAL HALIDE			0-10V - 0-10V DIMMIN		LINE - LINE VOLTAGE DIMMING	F1 = FIXTURE TA
O - OTHER (SEE DESCRIPTION)		I - CERAMI					DALI - DIGITAL ADDR		ML - MULTI-LEVEL SWITCHING	1 = CIRCUIT NUM
				UORESCENT			DMX - DIGITAL MULT	PLEX	MV - MULTI-VOLTAGE ELECTRONIC	LUMINAIRE NL = SUBSCRIPT
	XLP	- EXTEND	ED LIFE 8	& OUTPUT FLU			EB - ELECTRONIC		REM - REMOTE	
					JRESCENT					Z = ZONE DESIGN
					JRESCENT		ELV - ELECTRONIC L		O - OTHER (SEE DESCRIPTION)	
CATALOG NUMBER SHALL NOT BE CONS				HALL NOT BE (	ORDERED BY M		ELV - ELECTRONIC L EM - EMERGENCY B/ AND CATALOG NUMBE	TTERY	O - OTHER (SEE DESCRIPTION)	*IF LABEL IS ORIE INFORMATION. E
CATALOG NUMBER SHALL NOT BE CONS SPECIFICATION SHALL BE COORDINATE DESIGN. VERIFY AND COORDINATE ALL CEILING CONFIRM ALL COLORS AND FINISHES OI UNLESS INDICATED ON LIGHTING PLANS MOUNTING HEIGHTS.	ED WITH THE CATAL TYPES WITH LUMIN OF ALL LUMINAIRE CO	.OG NUMBI IAIRE MOU OMPONEN	ER TO DE NTING AI TS WITH	HALL NOT BE ( TERMINE THE ND TRIM REQU ARCHITECT A	DRDERED BY M EXACT MATER IREMENTS PRION ND INTERIOR D	AL AND ACCES OR TO THE RELI ESIGNER PRIOF	ELV - ELECTRONIC L EM - EMERGENCY B/ AND CATALOG NUMBE SORIES TO BE ORDER EASE OF THE LUMINAI	ATTERY RONLY. THE COM ED. THE FIRST MA RE ORDER. THE LUMINAIRE C	O - OTHER (SEE DESCRIPTION) MPLETE DESCRIPTION AND THE ANUFACTURER LISTED IS THE BASIS OF ORDER.	*IF LABEL IS ORIE INFORMATION. E DEVICE KEY: DEVICE A = MOUNTING (IF 1 = CIRCUIT NUME *IF LABEL IS ORIEI INFORMATION. EX
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#### LECTRICAL GENERAL NOTES: INGS CONTAINING ELECTRICAL SCHEDULES. PERMANENT NAMEPLATE

- IAL EQUIPMENT NOMENCLATURE, NOT ELECTRICAL EQUIPMENT TAG NAME, FICATIONS.
- JMINAIRE IS UNSWITCHED FOR NIGHT LIGHT. UMINAIRE IS SWITCHED/CONTROLLED DURING NORMAL OPERATION AND EMERGENCY CIRCUIT UPON LOSS OF POWER.
- RE OR DEVICE INDICATES LUMINAIRE OR DEVICE IS CONNECTED TO AN
- HEET FOR LIGHTING CONTROL DETAILS. E2 FOR LUMINAIRE SCHEDULE.
- IN REFERS TO SCENE QUANTITY. CONTROL STATION SHALL BE CAPABLE AND SWITCHING ON/OFF FOR MULTIPLE SCENES AS INDICATED ON NATE QUANTITIES OF BUTTONS FOR CONTROL STATIONS WITH LIGHTING ACTURER. REFER TO DETAILS THIS SHEET. PANCY SENSOR LAYOUT: SENSORS ARE SHOWN ON THE PLANS FOR ND MAY NOT REPRESENT EVERY DEVICE. PROVIDE MANUFACTURER
- PLAN LAYOUTS SHOWING LOCATION, ORIENTATION, AND COVERAGE AREA DL DEVICE. SENSOR. AND CONTROLLER/INTERFACE. AREAS REQUIRING OR DEVICES FOR APPROPRIATE COVERAGE, SUBMIT SPECIFIC APPROVED SENSOR LAYOUT AS AN OVERLAY DIRECTLY ON THE PROJECT ER IN PRINT OR APPROVED ELECTRONIC FORM.
- CUIT NUMBER **ITCH DESIGNATION** UBSCRIPT (IF APPLICABLE) NE DESIGNATION

#### BEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS MATION. EX: F1 / 1 / a / NL

UNTING (IF APPLICABLE) CUIT NUMBER

#### EL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS MATION. EX: A / 1

- NG SUBSCRIPT KEY: +6" TO CENTERLINE ABOVE COUNTER OR BACKSPLASH
- T CEILING RIENTED HORIZONTALLY
- I CASEWORK I MODULAR FURNITURE
- SURFACE RACEWAY WATER COOLER

#### **CTRICAL INSTALLATION NOTES:**

- NSTALLATION SHALL BE IN ACCORDANCE WITH THE ADA STANDARDS FOR IGN. REFER TO THE ADA GUIDELINES FOR ALL CONFIGURATION DETAILS ON DDITIONAL INFORMATION. S ARE SHOWN FOR CIRCUIT IDENTIFICATION. CIRCUITING SHALL AGREE G ON THE PANEL PROVIDED. COMMON NEUTRALS MAY NOT BE USED FOR
- S. BALANCE THE LOAD ON PANEL AS EVENLY AS POSSIBLE BETWEEN EACH E SAFETY AND CRITICAL, EQUIPMENT BRANCH WIRING FOR FEEDERS AND S SHALL BE ROUTED IN SEPARATE RACEWAY, JUNCTION BOXES, PULL
- INETS. WIRING FOR EACH BRANCH SHALL BE INDEPENDENT FROM OTHER UDING THE NORMAL BRANCH. L LIGHTING CONTROL DEVICES AT +42" FROM FLOOR (CENTERLINE
- (CEPT 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. 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. REFER TO ARCHITECTURAL SPECIFICATIONS FOR
- ADDITIONAL INFORMATION AND REQUIREMENTS SPECIFIC TO FIRESTOPPING. 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. CONTRACTOR SHALL REMOVE AND REINSTALL ALL CEILING TILES AS REQUIRED FOR THE EXECUTION OF ELECTRICAL WORK. CONTRACTOR SHALL REPLACE CEILING TILES WITH IDENTICAL MATERIAL WHERE DAMAGED BY THIS CONTRACTOR. 16. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIO/VISUAL, AND OTHER ELECTRICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING
- MOUNTED DEVICES, OTHER THAN SPRINKLERS. 17. ALL EXISTING BRANCH CIRCUITS REQUIRE FIELD VERIFICATION AND SHALL BE TRACED FROM
- SOURCE PANEL TO DEVICES, LIGHT FIXTURES AND EQUIPMENT REQUIRED TO REMAIN OR RELOCATE. UTILIZE INFORMATION TO PROVIDE ACCURATE UPDATED TYPE-WRITTEN PANEL SCHEDULES. 18. ALL ELECTRICAL WORK SHALL COMPLY WITH NEC 2017 ARTICLE 517 FOR HEALTHCARE

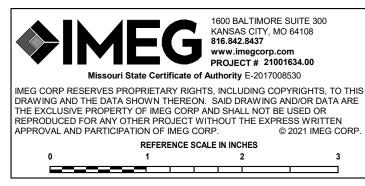
#### **ELECTRICAL PHASING NOTES:**

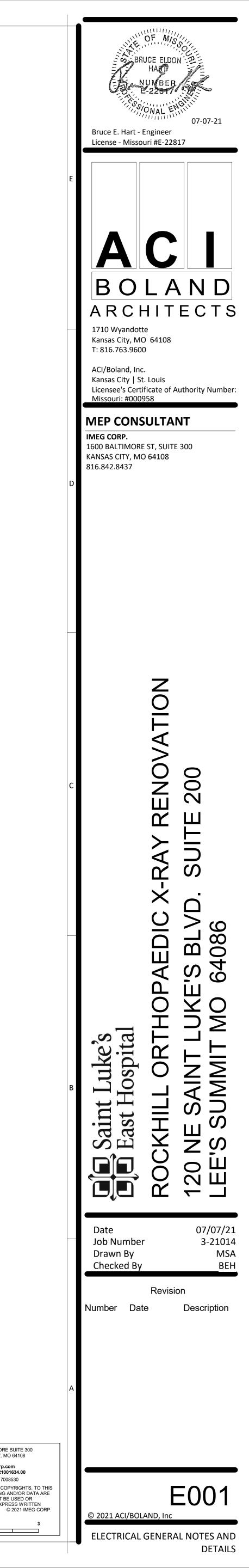
FACILITIES.

- THESE NOTES APPLY TO ALL ELECTRICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, LIGHTING, POWER, AND SYSTEMS. 1. REFER TO ARCHITECTURAL DRAWINGS FOR GENERAL DESCRIPTION OF PHASES. REFER TO CONSTRUCTION MANAGER'S/GENERAL CONTRACTOR'S/ARCHITECT'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 LIGHTING, POWER, SYSTEMS, ETC. AS NEEDED TO MAINTAIN SERVICE TO ALL AREAS DURING ALL PHASES OF PROJECT.
- 4. INSTALL TEMPORARY LIGHTING, CIRCUITS, ETC. AS NECESSARY TO KEEP ALL OCCUPIED SPACES OPERATIONAL THROUGHOUT ALL PHASES OF THE PROJECT 5. PHASE DEMOLITION WORK TO MINIMIZE DOWNTIME.

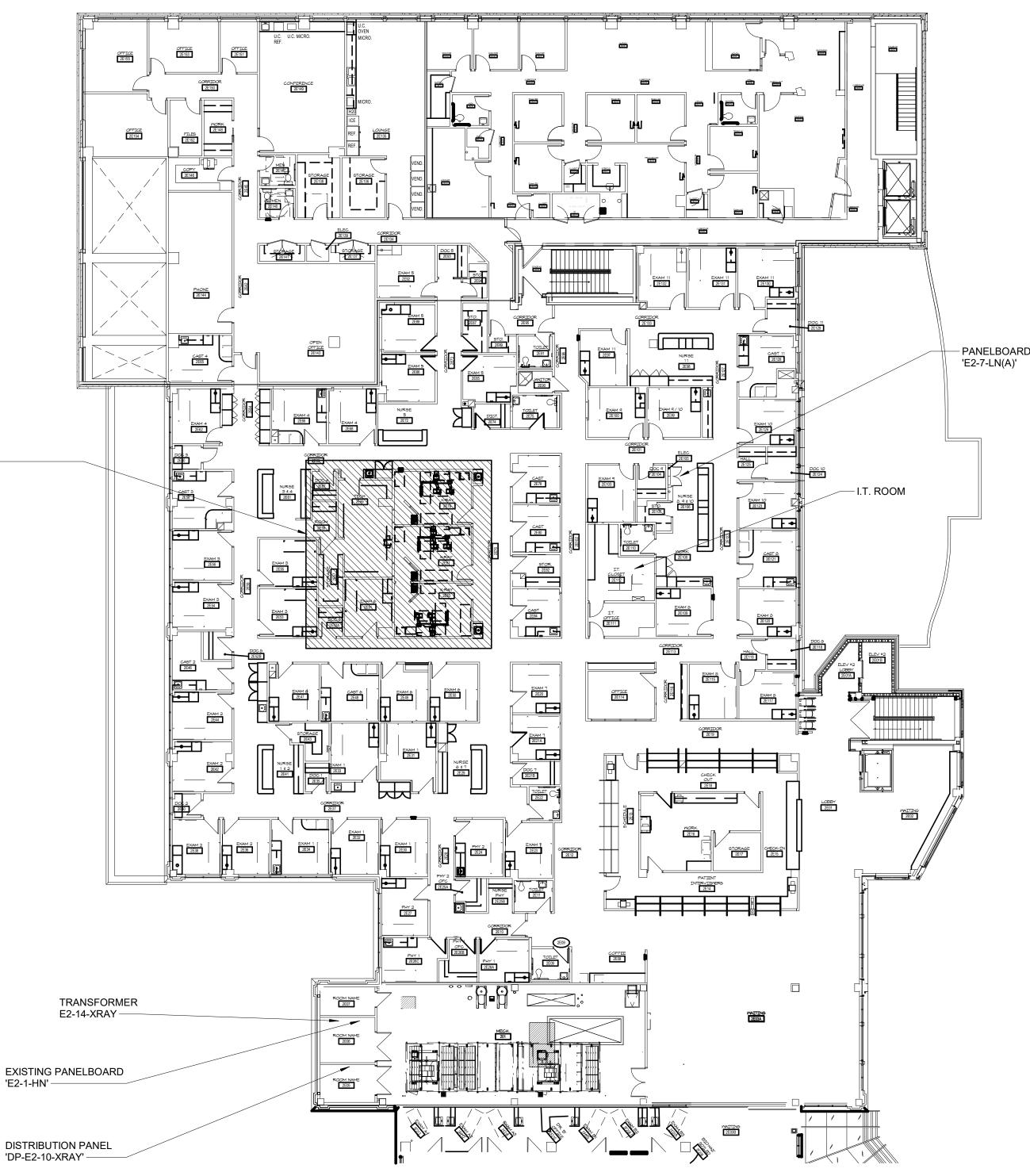
#### **TYPICAL NEW CONSTRUCTION:**

- 1. HALF-SHADED FIXTURES INDICATE EMERGENCY LUMINAIRES THAT ARE TO BE CONNECTED VIA AN EMERGENCY TRANSFER DEVICE (ALCR) TO TURN LIGHTS ON UPON LOSS OF
- POWER. THE THIRD LEG OF THE ETD IS CONNECTED TO THE EMERGENCY LIGHTING PANEL. 2. 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. 3. #B PUSH BUTTON REFERS TO SCENE QUANTITY. COORDINATE NUMBER OF BUTTONS FOR CONTROL STATIONS WITH LIGHTING CONTROL MANUFACTURER. CONTROL SHALL BE CAPABLE OF DIMMING UP/DOWN AND SWITCHING ON/OFF FOR MULTIPLE ZONES AS
- INDICATED. 4. COORDINATE LUMINAIRE IN MECHANICAL ROOMS WITH DUCTWORK, PIPING AND ANY MECHANICAL EQUIPMENT. PROVIDE LUMINAIRE WITH CHAINS OR HANGAR KIT WHERE REQUIRED. BOTTOM OF FIXTURE TO ALIGN WITH BOTTOM OF NEAREST BEAM/TRUSS. COORDINATE MOUNTING PRIOR TO ORDERING LUMINAIRES.



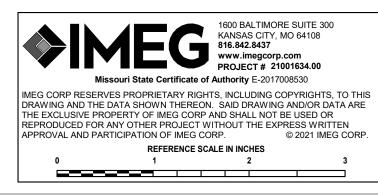


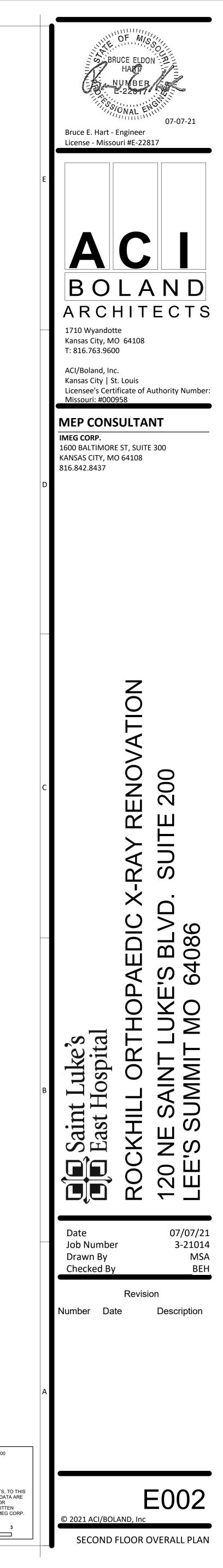


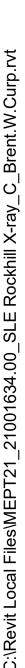


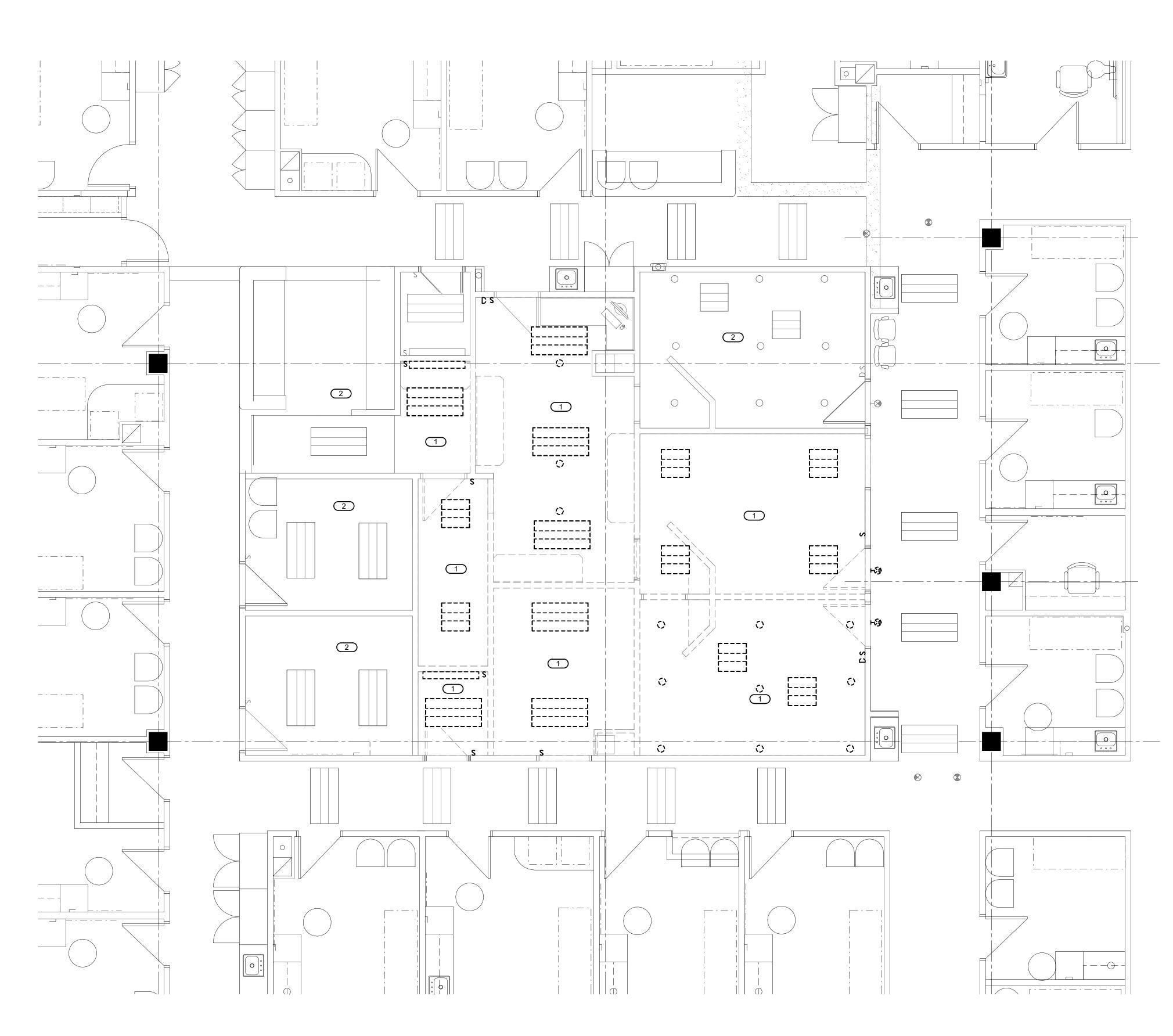


**SECOND FLOOR PLAN** 1/16" = 1'-0"

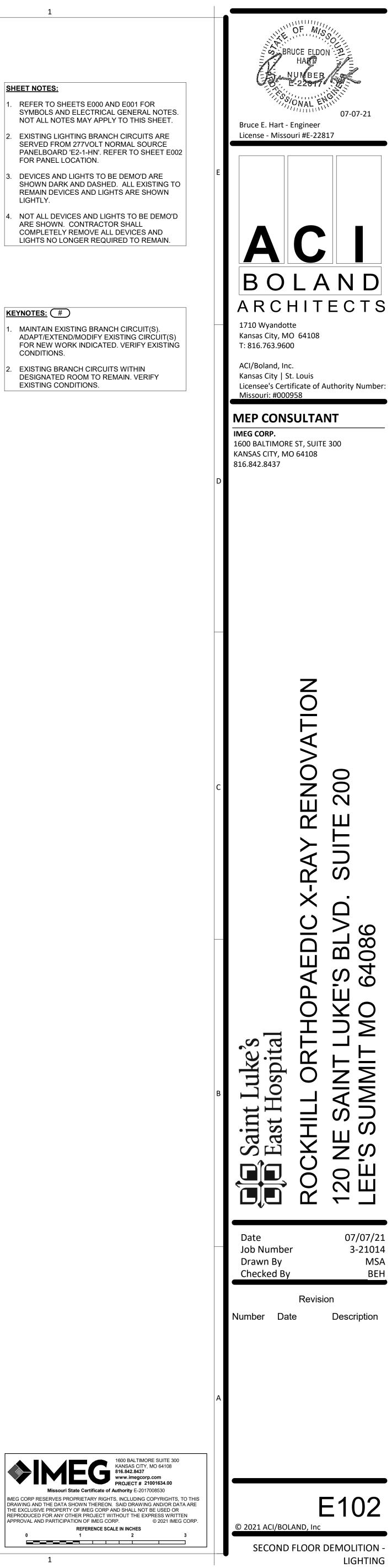


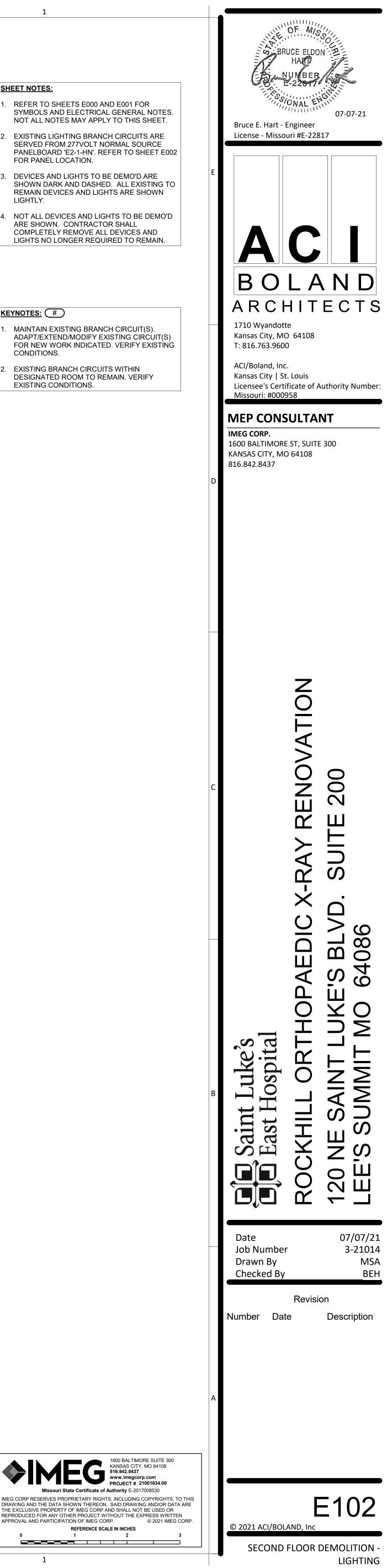


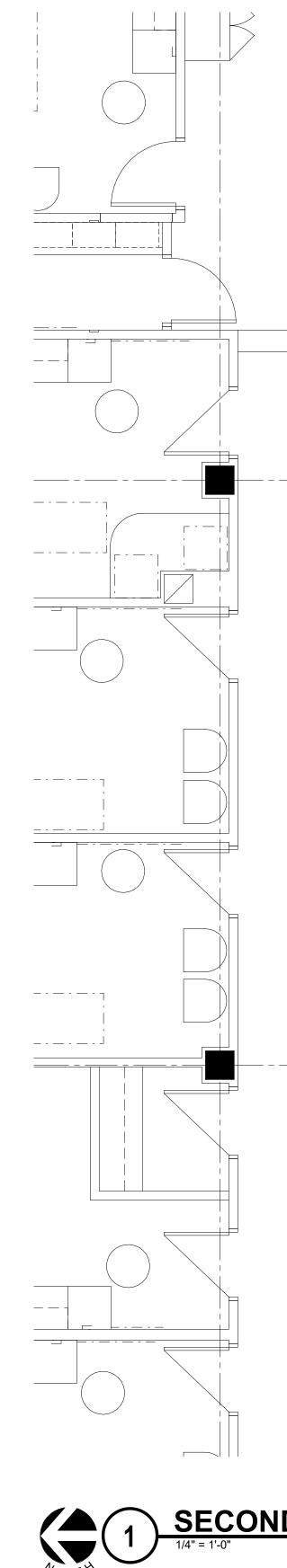






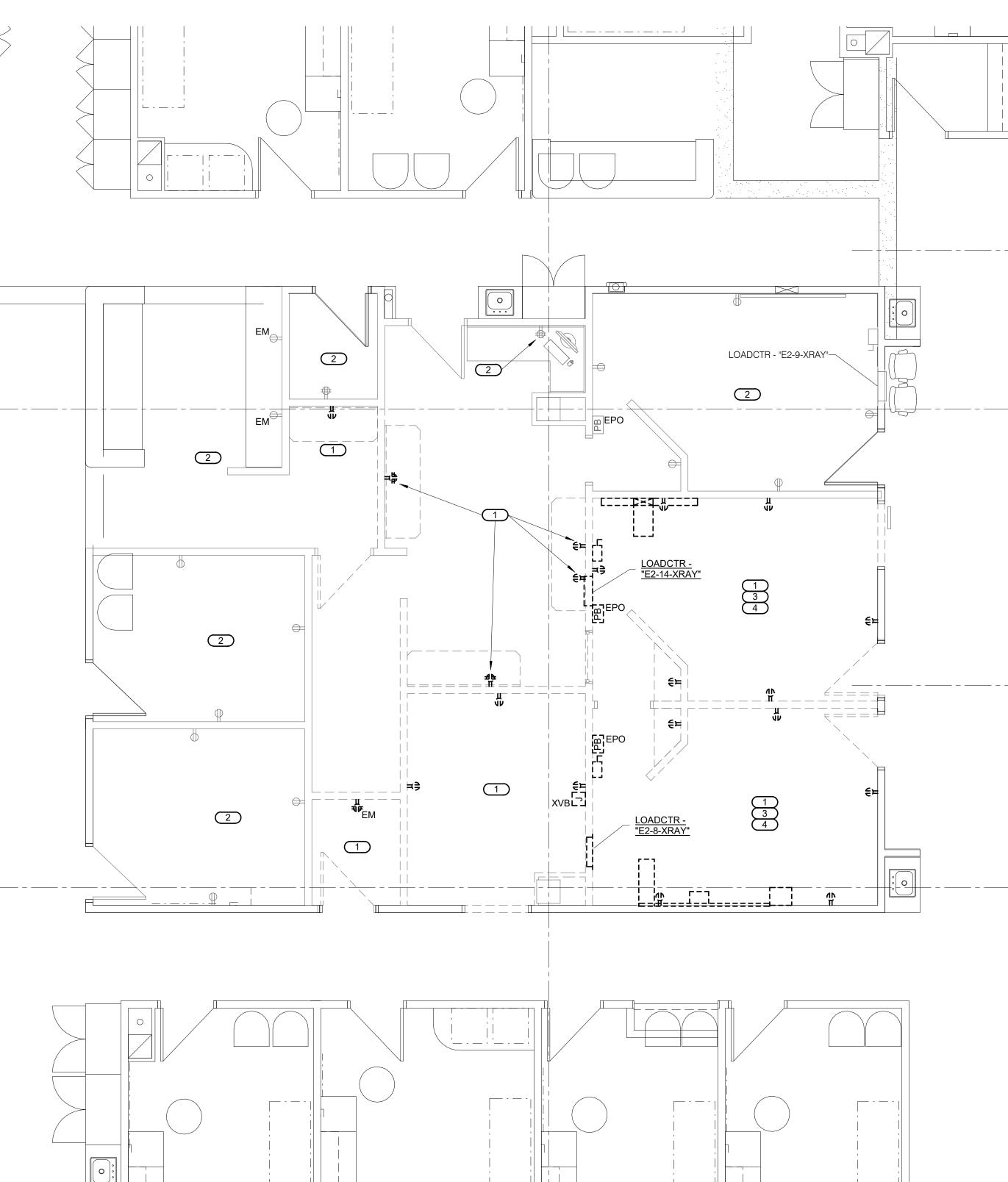






"OR"

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 $\parallel \mid \square$ 

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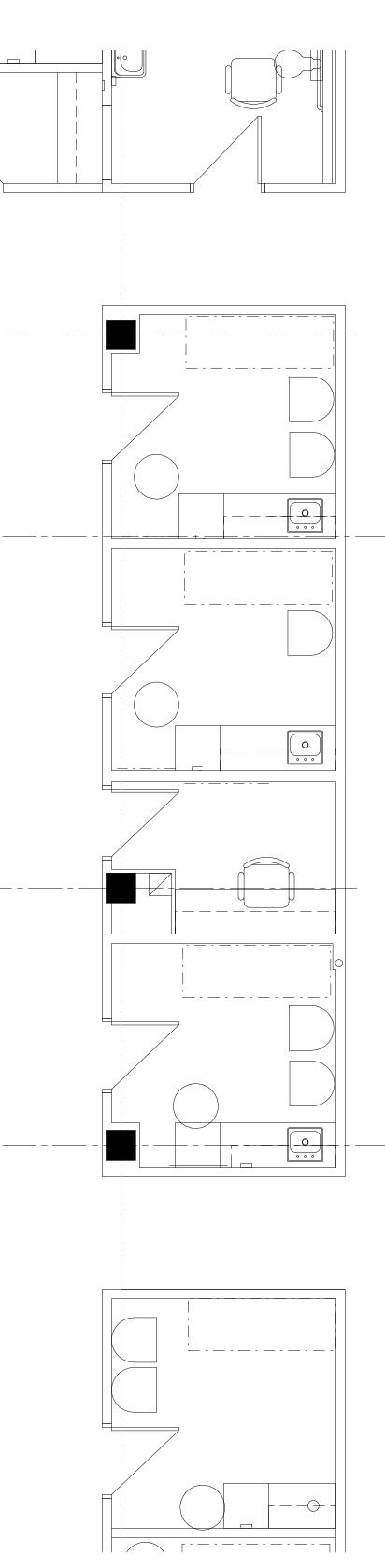
# **SECOND FLOOR DEMOLITION - POWER**

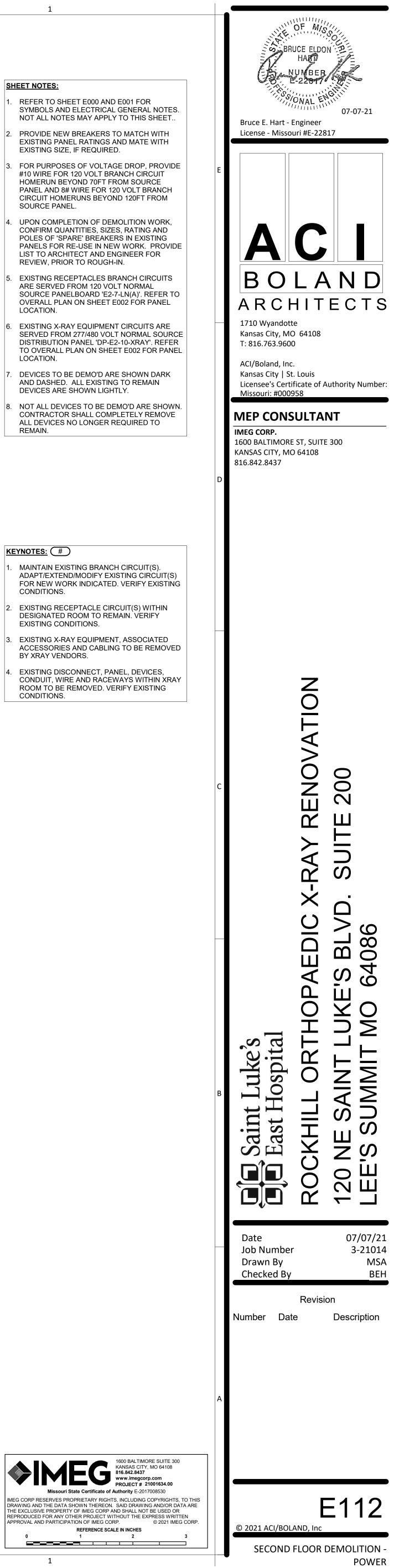
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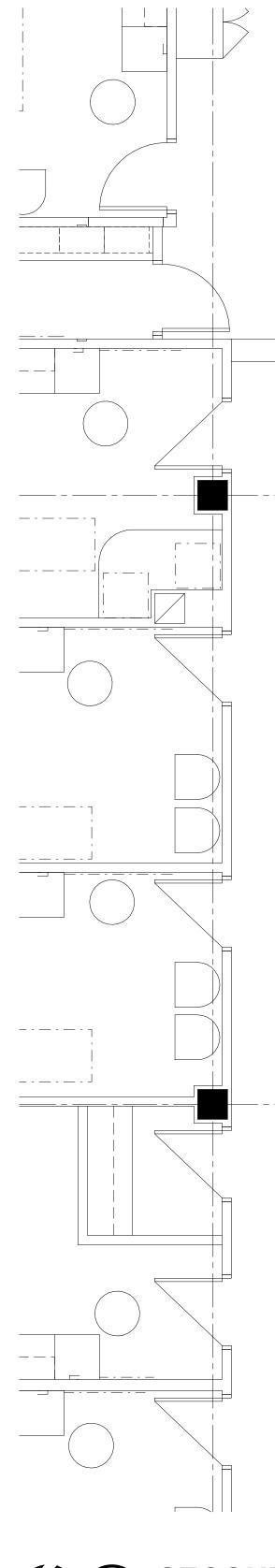


- SOURCE PANEL.
- LOCATION.
- LOCATION.
- DEVICES ARE SHOWN LIGHTLY.

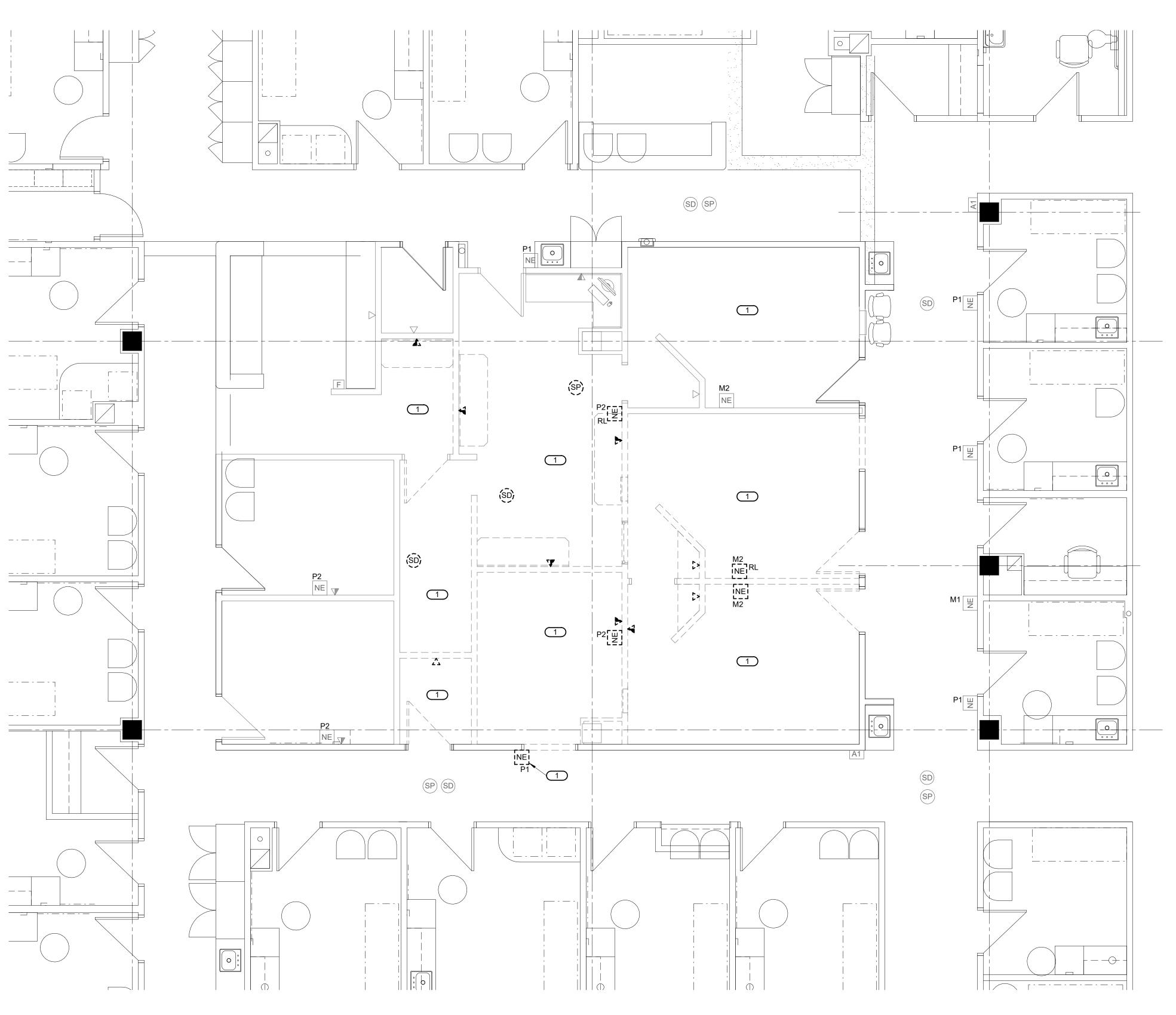
- CONDITIONS.
- EXISTING CONDITIONS.

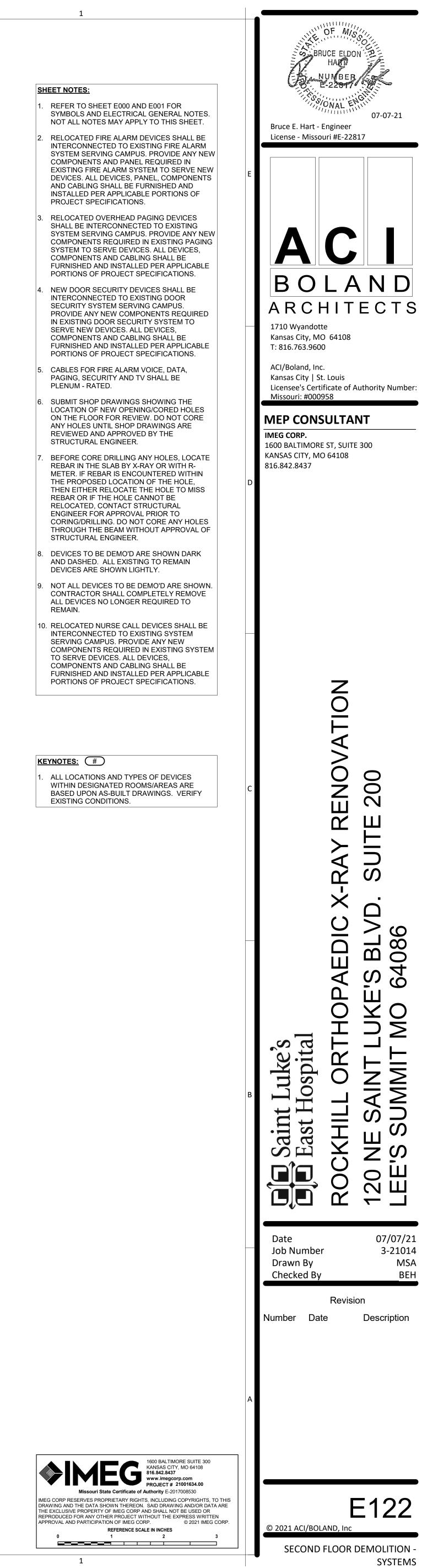




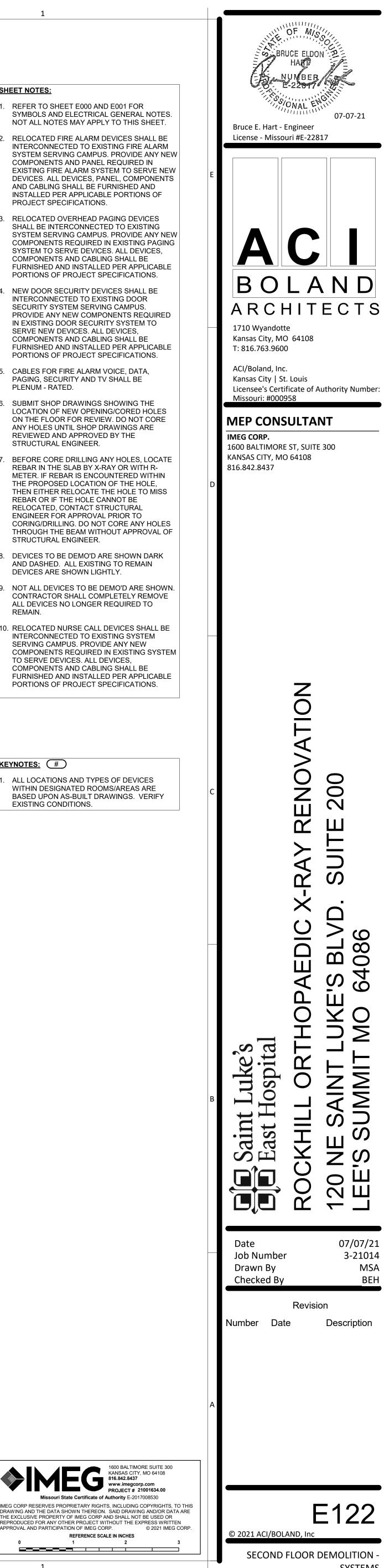


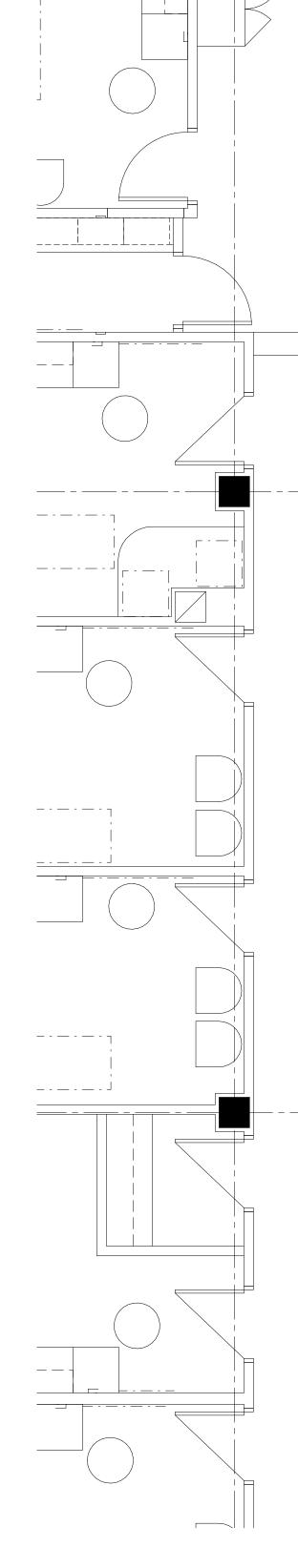






•	ALL LOCATIONS AND TYPES OF DEVICES WITHIN DESIGNATED ROOMS/AREAS ARE BASED UPON AS-BUILT DRAWINGS. VERI
	EXISTING CONDITIONS.

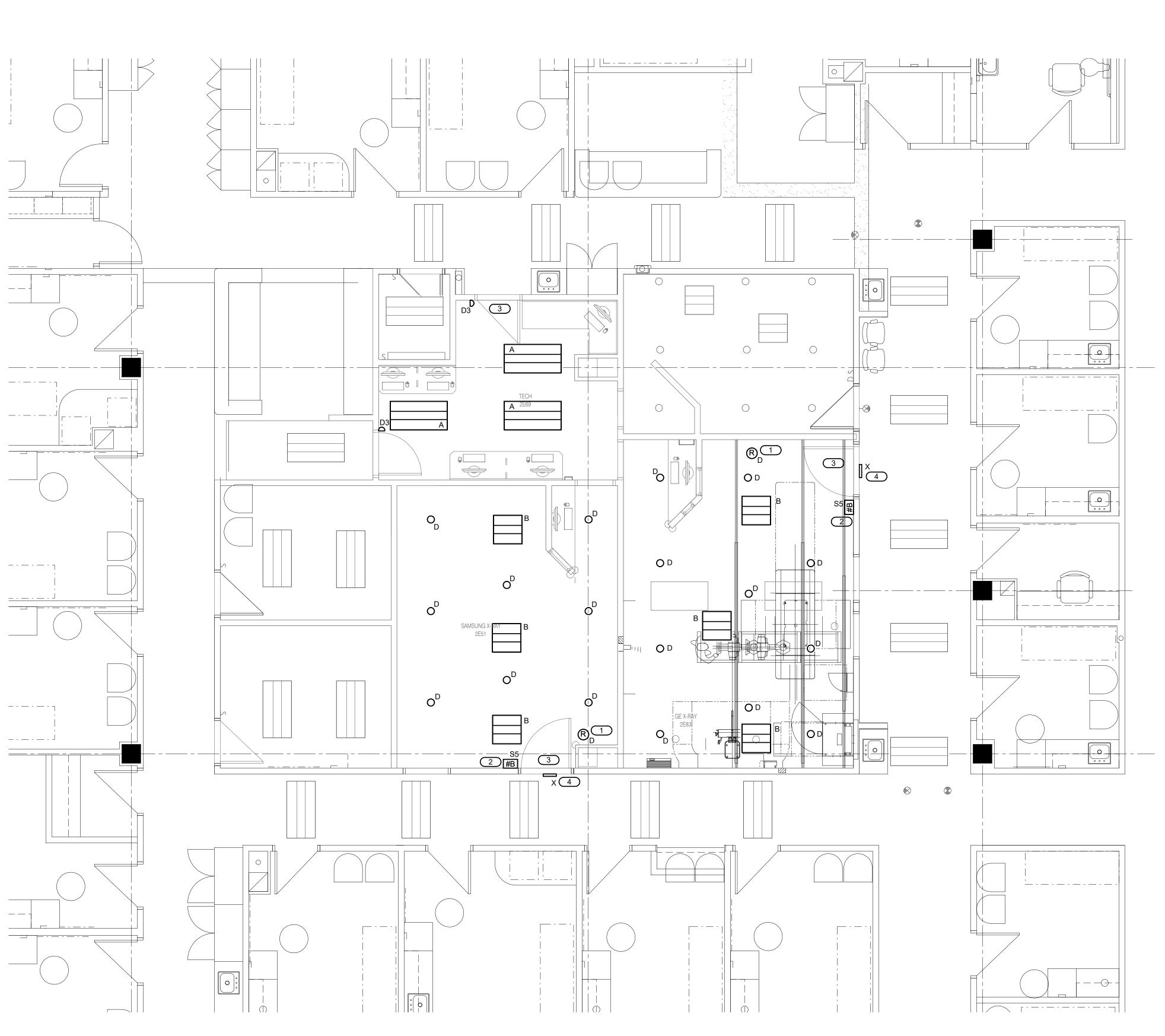




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#### SHEET NOTES:

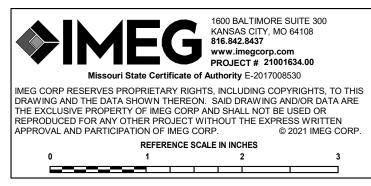
- . REFER TO SHEETS E000 AND E001 FOR SYMBOLS AND ELECTRICAL GENERAL NOTES. NOT ALL NOTES MAY APPLY TO THIS SHEET.
- 2. EXISTING LIGHTING BRANCH CIRCUITS ARE SERVED FROM 277VOLT NORMAL SOURCE PANELBOARD 'E2-1-HN'. REFER TO SHEET E002 FOR PANEL LOCATION.

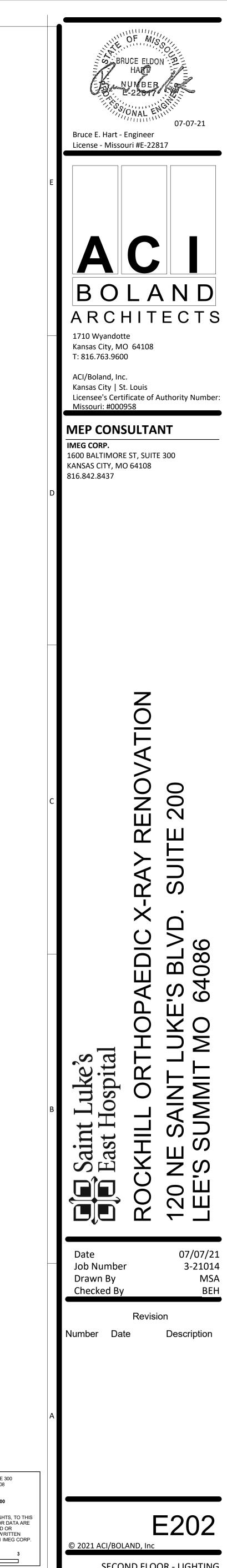
AS-BUILT DRAWINGS INDICATES EXISTING PANEL 'E2-1-HN' AS HAVING SIX (6) 1P 20AMP SPARES AND EIGHTEEN (18) 1-POLE SPACES. PANEL IS RATED 225AMP, 277/480 VOLT, 3-PHASE, 4 WIRE, 42 CIRCUIT. VERIFY EXISTING CONDITIONS.

#### KEYNOTES: #

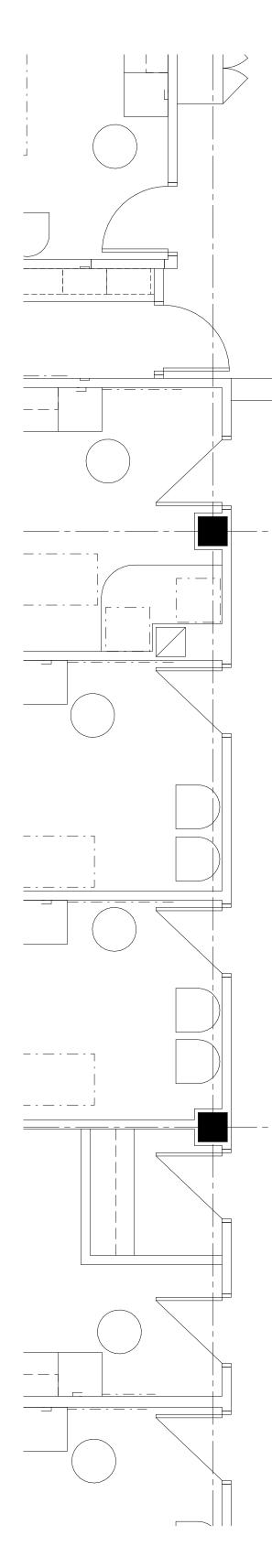
VENDOR.

- 1. WATTSTOPPER DLM DIMMING ROOM CONTROLLER #LRMC-212, 0-10 VOLT UNIT. REFER TO DETAIL.
- WATTSTOPPER DLM #LMSW-105 SERIES DIMMABLE WALL SWITCH WITH 2 UP/2 DN 5-BUTTON CONTROL WITH ONE BUTTON MASTER ON/OFF CONTROL. REFER TO DETAIL.
- . INTERCEPT, EXTEND AND CONNECT LIGHTING TO EXISTING 277 VOLT BRANCH CIRCUIT(S) IN X-RAY ROOM AREA. TAKE READINGS TO ENSURE CIRCUIT(S) WILL NOT BECOME OVERLOADED. TRACE AND VERIFY EXISTING CONDITIONS AND LOADS PRIOR TO ROUGH-IN.
- PROVIDE NEW "IN-USE" SIGN, INTERCONNECT WITH X-RAY EQUIPMENT AS DIRECTED BY

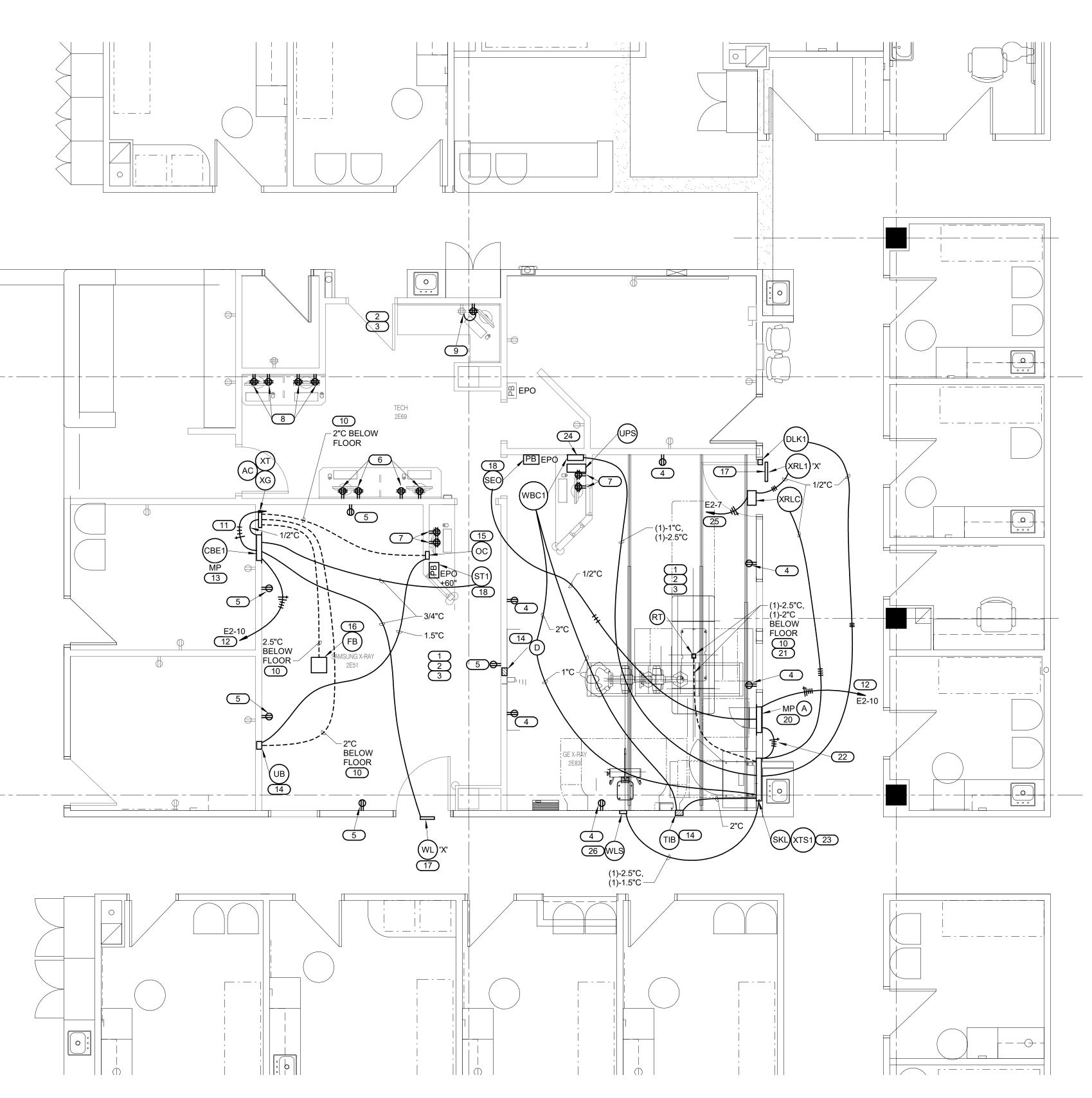




SECOND FLOOR - LIGHTING







4

REFER TO SHEET E000 AND E001 FOR SYMBOLS AND ELECTRICAL GENERAL NOTES. NOT ALL NOTES MAY APPLY TO THIS SHEET ... PROVIDE NEW BREAKERS TO MATCH WITH EXISTING PANEL RATINGS AND MATE WITH

EXISTING SIZE, IF REQUIRED.

SOURCE PANEL.

SHEET NOTES:

- FOR PURPOSES OF VOLTAGE DROP, PROVIDE #10 WIRE FOR 120 VOLT BRANCH CIRCUIT HOMERUN BEYOND 70FT FROM SOURCE PANEL AND 8# WIRE FOR 120 VOLT BRANCH CIRCUIT HOMERUNS BEYOND 120FT FROM
- UPON COMPLETION OF DEMOLITION WORK, CONFIRM QUANTITIES, SIZES, RATING AND POLES OF 'SPARE' BREAKERS IN EXISTING PANELS FOR RE-USE IN NEW WORK. PROVIDE LIST TO ARCHITECT AND ENGINEER FOR
- REVIEW, PRIOR TO ROUGH-IN. EXISTING RECEPTACLES BRANCH CIRCUITS ARE SERVED FROM 120 VOLT NORMAL SOURCE PANELBOARD 'E2-7-LN(A)'. REFER TO OVERALL PLAN ON SHEET E002 FOR PANEL LOCATION.
- EXISTING X-RAY EQUIPMENT CIRCUITS ARE SERVED FROM 277/480VOLT NORMAL SOURCE DISTRIBUTION PANEL 'DP-E2-10-XRAY'. REFER TO OVERALL PLAN ON SHEET E002 FOR PANEL LOCATION.
- AS-BUILT DRAWING INDICATES EXISTING PANEL 'E2-7-GN(A)' AS HAVING THIRTEEN (13) 1P 20AMP SPARES AND NO SPACES. PANEL IS RATED 225 AMP MAIN BREAKER, 120/208 VOLT, 3-PHASE, 4 WIRE, 84 CIRCUIT. VERIFY EXISTING CONDITIONS.
- REFER TO RADSOURCE IMAGING TECHNOLOGIES - SAMSUNG VENDOR DRAWINGS - SITE SPECIFIC - "SAMSUNG GC85", FOR ALL INTERCONNECTING CABLING, CONDUIT AND WIRING, DESCRIPTION OF ITEMS TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR. IN ADDITION, REFER TO MANUFACTURER INSTALLATION MANUAL FOR ADDITIONAL REFERENCE MATERIAL

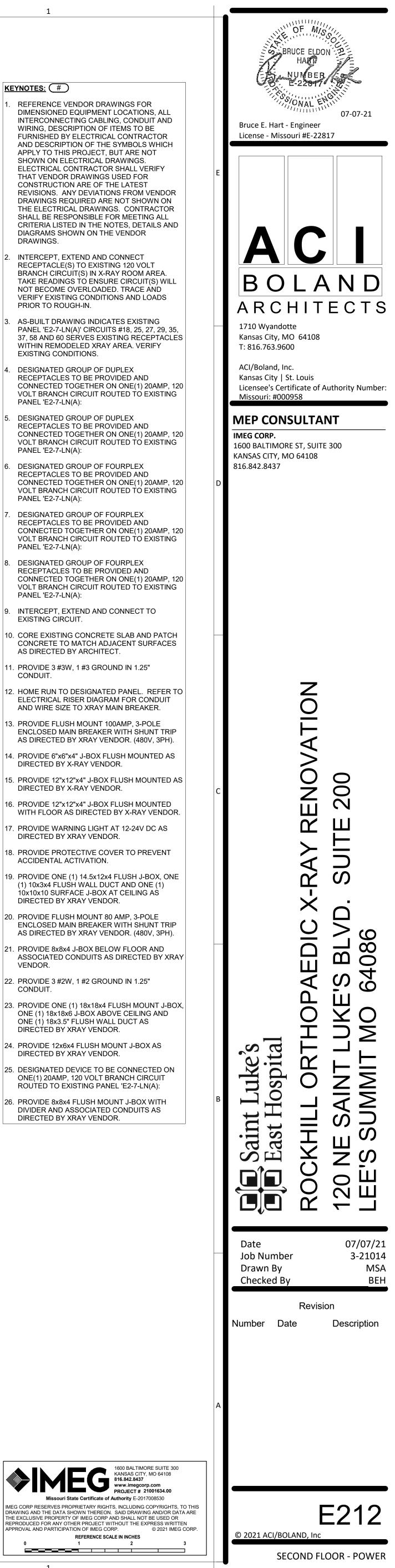
ASSOCIATED WITH THIS INSTALLATION.

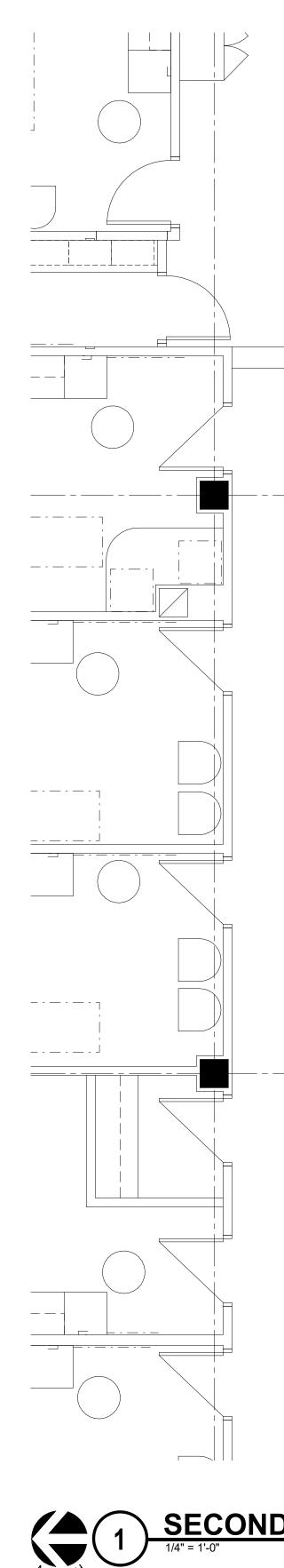
- NOT ALL ELECTRICAL WORK IS SHOWN. REFER TO FINAL SAMSUNG AND G.E. HEALTHCARE SITE SPECIFIC DRAWINGS FOR ALL INTERCONNECTING CABLING, CONDUIT, J-BOXES, ELECTRICAL DEVICES AND DESCRIPTION OF SYMBOLS WHICH APPLY TO THIS PROJECT. DESIGN INDICATED ON THIS PROJECT IS SHOWN FOR BIDDING PURPOSES AND MAY NOT BE FINAL SITE SPECIFIC.
- 10. NOT ALL DEVICES, J-BOXES, RACEWAYS, CABLING, ETC. ARE SHOWN. CONTRACTOR SHALL REFER TO ATTACHED FINAL SAMSUNG AND G.E. HEALTHCARE DRAWINGS FOR ADDITIONAL REQUIREMENTS. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK INDICATED ON SAMSUNG AND G.E. HEALTHCARE DRAWINGS AS OWNER OR CONTRACTOR FURNISHED AND/OR INSTALLED.
- . CONTRACTOR SHALL CAREFULLY COORDINATE EXACT LOCATION OF ALL DEVICES AND EQUIPMENT WITH FINAL SAMSUNG AND GE HEALTHCARE PRIOR TO INSTALLATION.
- 2. PROVIDE NEW CIRCUIT BREAKERS TO MATE WITH EXISTING PANELBOARDS SIZE AND MATCH PANEL RATINGS, IF REQUIRED.
- 13. REFER TO GE HEALTHCARE VENDOR DRAWINGS TITLED "1-150f TYPICAL FINAL-RAD SITE PLANNING/READINESS-OPTIMA XR646". IN ADDITION, REFER TO PREINSTALLATION MANUAL #5643854-1EN FOR ADDITIONAL MATERIAL ASSOCIATED WITH RELOCATION INSTALLATION. ALL INTERCONNECTING CABLING, CONDUIT AND WIRING, DESCRIPTION OF ITEMS TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
- 14. ALL CONDUIT RUNS MUST TAKE THE MOST DIRECT ROUTE AND SHALL BE FURNISHED WITH PULL STRINGS.

- DIAGRAMS SHOWN ON THE VENDOR
- INTERCEPT, EXTEND AND CONNECT
- EXISTING CONDITIONS.
- PANEL 'E2-7-LN(A):
- PANEL 'E2-7-LN(A):
- DESIGNATED GROUP OF FOURPLEX RECEPTACLES TO BE PROVIDED AND
- RECEPTACLES TO BE PROVIDED AND PANEL 'E2-7-LN(A):
- PANEL 'E2-7-LN(A):
- EXISTING CIRCUIT.
- AS DIRECTED BY ARCHITECT.

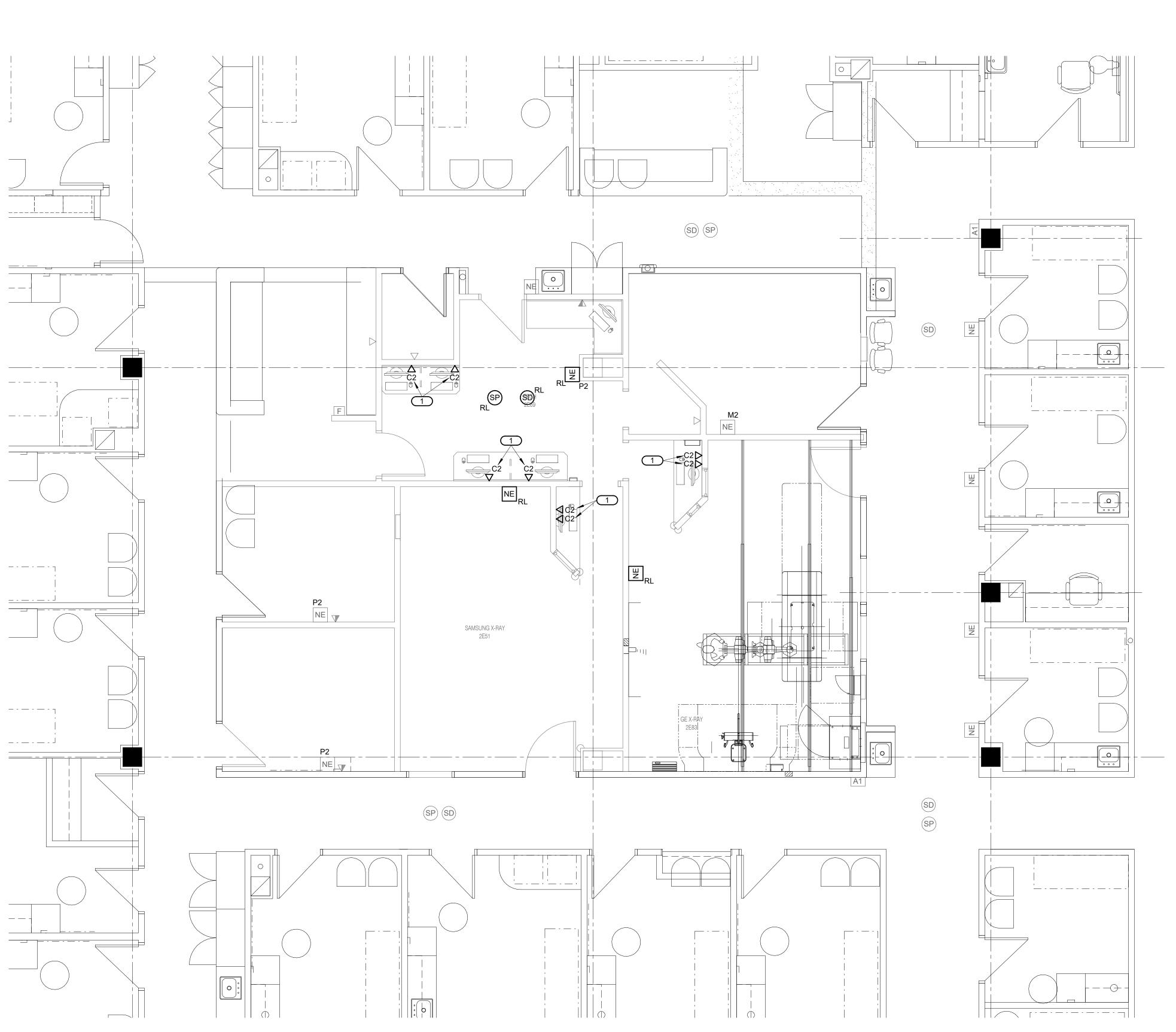
- DIRECTED BY XRAY VENDOR.

- 22. PROVIDE 3 #2W, 1 #2 GROUND IN 1.25" CONDUIT.
- ONE (1) 18x3.5" FLUSH WALL DUCT AS DIRECTED BY XRAY VENDOR.
- DIRECTED BY XRAY VENDOR.

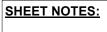


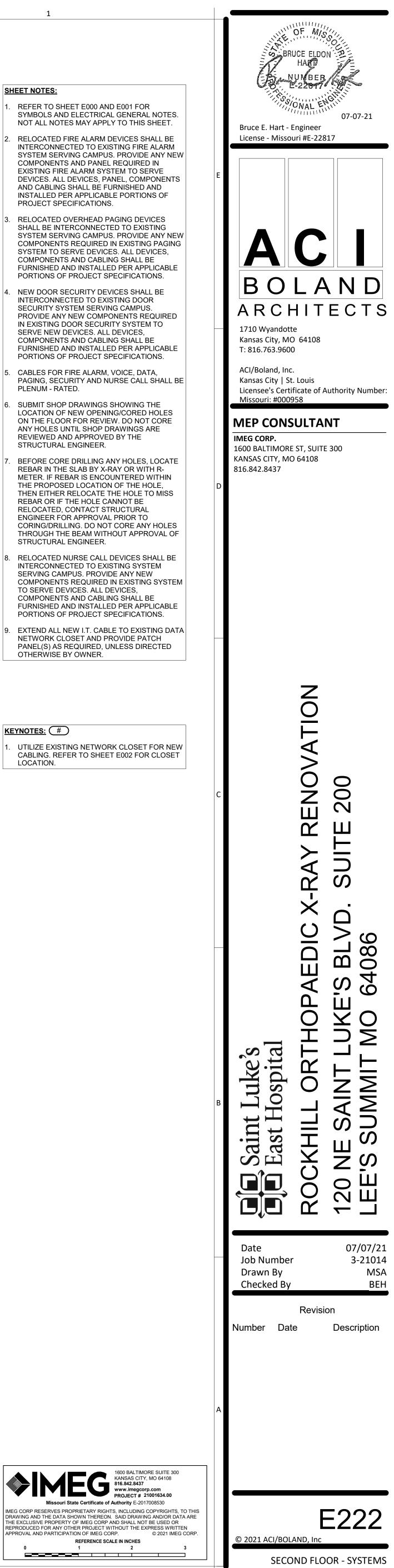


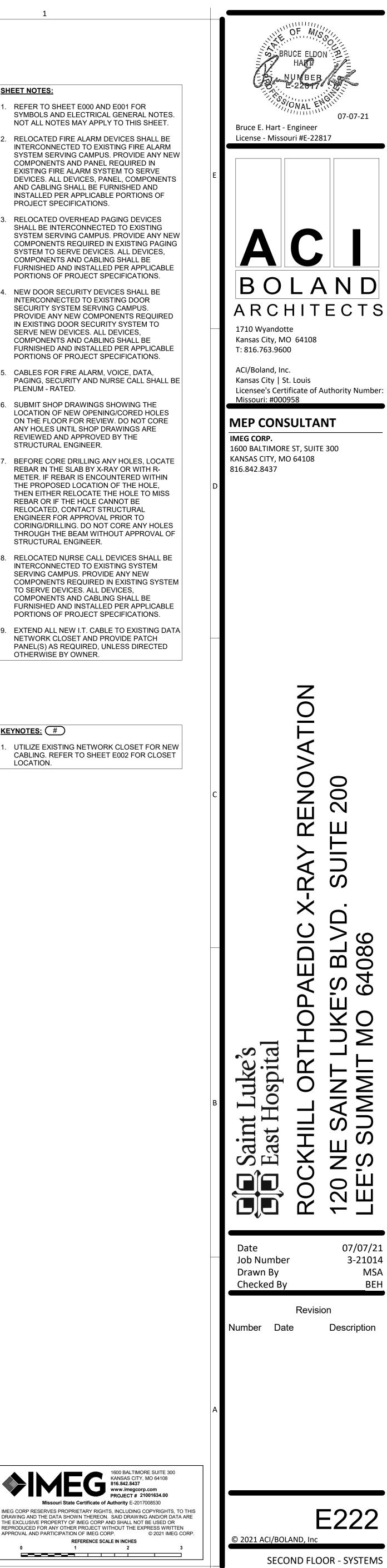
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**SECOND FLOOR - SYSTEMS** 







Drawing I	ndex	
These sheets are a document set and Electrical information and references o		J
SITE READINESS	C1	
EQUIPMENT LAYOUT (Equipment locations, heat loads, component weigh	A1 nts, environmental specs)	
STRUCTURAL LAYOUT (Structural support/mounting locations for floor/wa	S1 all/ceiling, wall support elevations)	
STRUCTURAL DETAILS	S2	(c
(Floor and Ceiling loading information) ELECTRICAL LAYOUT (Contractor supplied wiring, interconnect methods,	E1 junction point locations and descriptions)	5
ELECTRICAL SPECIFICATIONS (Maximum wiring run lengths, interconnect diagram		Ŷ
ELECTRICAL DETAILS	E3 THRU E4	
EQUIPMENT DETAILS	D1 THRU D2	

These drawings indicate the placement and interconnection of the listed equipment components. These drawings are not construction or site preparation drawings. Customer remains ultimately responsible for preparing the site to accommodate the operation of such equipment in compliance with GE Healthcare's written specifications and all applicable federal, state, and/or local requirements.

# \* REQUIRED REFERENCE \*

# Optima XR646

# Pre Installation Manual

# 5643854 - 1 EN

A mandatory component of this drawing set is the GE Healthcare Pre Installation manual. Failure to reference the Pre Installation manual will result in incomplete documentation required for site design and preparation.

Pre Installation documents for GE Healthcare products can be accessed on the web at:

www.gehealthcare.com/siteplanning

# Generation Sector Secto



# RAD Site Planning



# Customer Site Readiness Requirements

- prior to making changes.
- analysis, 4. Restrooms.
- containment requirements.

The items on the GE Healthcare Site Readiness Checklist are REQUIRED to facilitate equipment delivery to the IS site. Equipment will not be delivered if these requirements are not satisfied.

	GE
	GEHC Global Order # : GEHC PMI Name :
	The customer is response Escalate Site Readiness issues to
	GEHC Minimun
1	MR Magnet Delivery Requirements: Ensure cryc connection as defined by GEHC Pre-Installation N installed and operational, 480V power, and chille
2	MR RF Screen Room Requirements: RF Screen R compliant with GEHC specifications. Dock Bolt ar 2 part anchor. For HDx systems, blower box mou
3	State Regulatory Requirements: Facility registration number provided for states of X-ray shielding plan and state acknowledgment l & WA. Site Drawing Requirements: Final version o
4	Surface Penetration Requirements: Customer/C or cutting into floors, ceilings, and walls; OR surfo the room when GEHC will perform the work.
5	<b>Pre-Delivery Route Requirements:</b> The equipme destination within the facility has been reviewed minimum requirements for equipment access, ar
6	Finished Room Requirements: Rooms that will ca scan suite, are dust free. Provisions taken to mai taken to prevent dust from entering rooms conta
7	Electrical Requirements: Lockable (LOTO) Main D guidelines and system power is available. Condu and access flooring is installed in proper location
8	Power and Ground Audit: Workflow created
9	HVAC Requirements: The HVAC/Chilled Water sy spec/PIM is at running state and appears to provi including location of vents, temperature and hum
10	Flooring Requirements: Floor is clean and prepar levelness/flatness is measured and within tolera specifications. Confirm customer anchoring plan
11	<b>Ceiling Requirements:</b> Unistrut (or equivalent) loc vendor confirmed) and consistent with the requir unistrut and rails are not used as mounting surfa
12	Staging Requirements: Space has been identifie This area meets PIM/project book requirements. Storage space has been identified, if needed. Thi equipment indefinitely
13	Network Connectivity: Hardwire for network cor delivery with specified network firewall configure mobile XR units have been completed.
14	Insite Readiness: Confirmation of VPN tunnel rea
15	Medical Gases Requirements: Systems (hard pip calibration of equipment (anesthesia), including v

• Any deviation from these drawings must be communicated in writing to and reviewed by your local GE Healthcare Installation Project Manager

 Make arrangements for any rigging, special handling, or facility modifications that must be made to deliver the equipment to the installation site. If desired, your local GE Healthcare Installation Project Manager can supply a reference list of rigging contractors.

• New construction requires the following; 1. Secure area for equipment, 2. Power for drills and other test equipment, 3. Capability for image

• Provide for refuse removal and disposal (e.g. crates, cartons, packing)

• Contact a radiation physicist or consultant to specify radiation

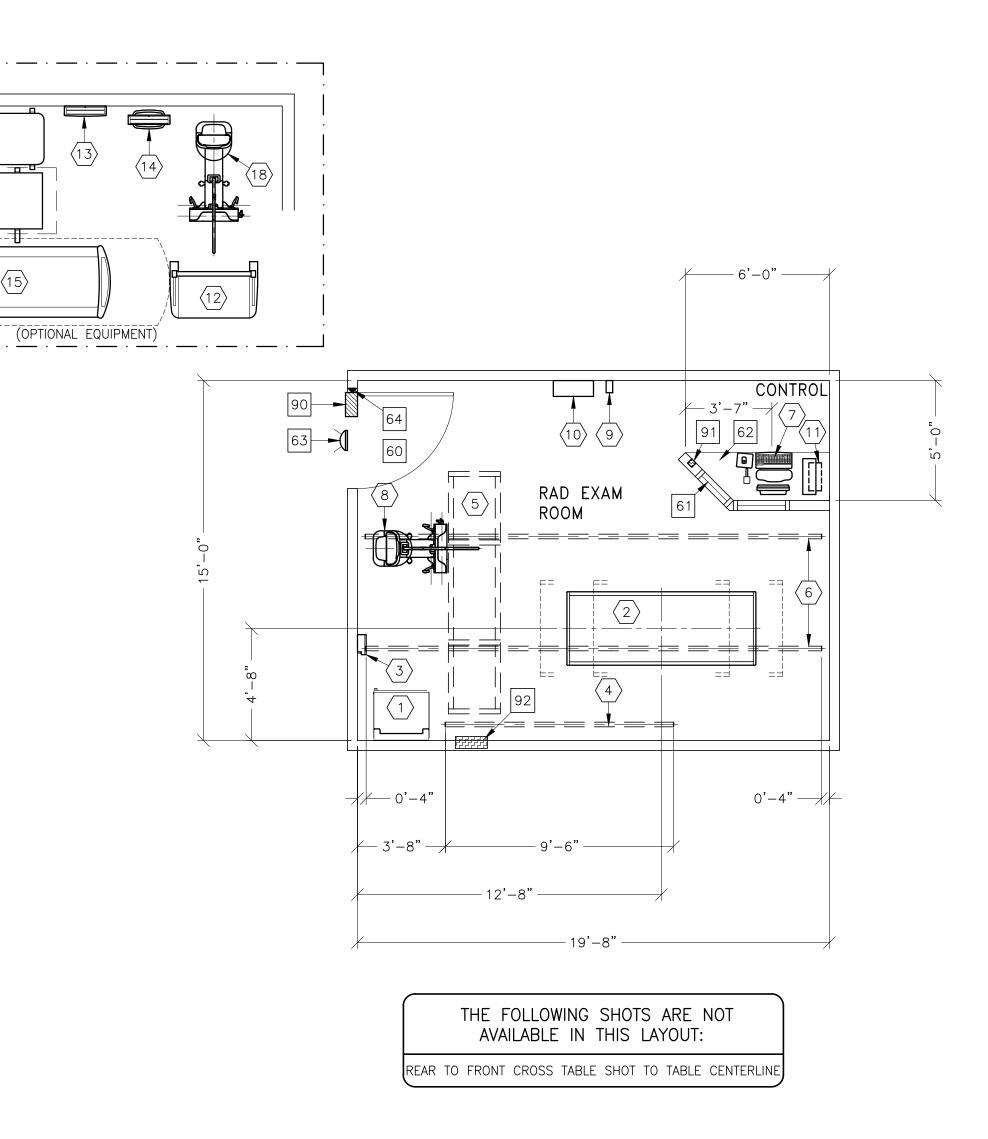
# GE Equipment Delivery Requirements

Healthcare Site Readiness Checklist Rev 21 ng this document ensure you have the latest Rev from MyWorkshop on DOC0422752								
C	ustomer:			<u></u>				
	S Name:							
onsible for proper site preparation regardless of a								
the Zone ISL: East- Dan Pruent 352 255 7052, Centra Inspection Date:	1000 RC	-yers 940 /	-55 <del>8</del> 425, W					
n Requirements	Storage Is item ready?	PMI ls item ready?	FE Is item ready?	Comments If "N", enter comments or action plan				
ogen venting system is available for magnet Manual (PIM) requirements, exhaust fan system is Id water supply is avail								
toom is tested with copy of Test Report that it is nd magnet anchors ( if applicable) installed using int bolts installe								
f <u>III, KY, HI, RI, SC, TX.</u> letter provided to installer for <u>AR, DC, NC, SC, CO</u>								
Contractor scheduled to provide required drilling ace penetration permit available and posted in								
ent delivery route from the truck to the final with all key stakeholders to safely meet the nd all communications/noti								
ontain equipment, including storage areas not in Intain a dust free room. Precautions must be ining equipment wh								
Disconnect Panel (MDP) is installed per GE uits, electrical cable ducting/dividers/cable trays, and height. S								
vstems designed to maintain the environment per ide the desired environmental conditions nidity for system operation.								
red for final floor covering. Floor nce, and there are no visible defects per GEHC aligns with designed floor								
ation, levelness and spacing is measured (or ement of the installation drawings. Ensure ces. Ceiling grid								
ed to support the active installation process only. s secured space would be used to store								
nectivity(network drop) is in place prior to ation where required. Site Surveys for wireless								
uested. ed or portable) in place to allow testing and rentilation.								

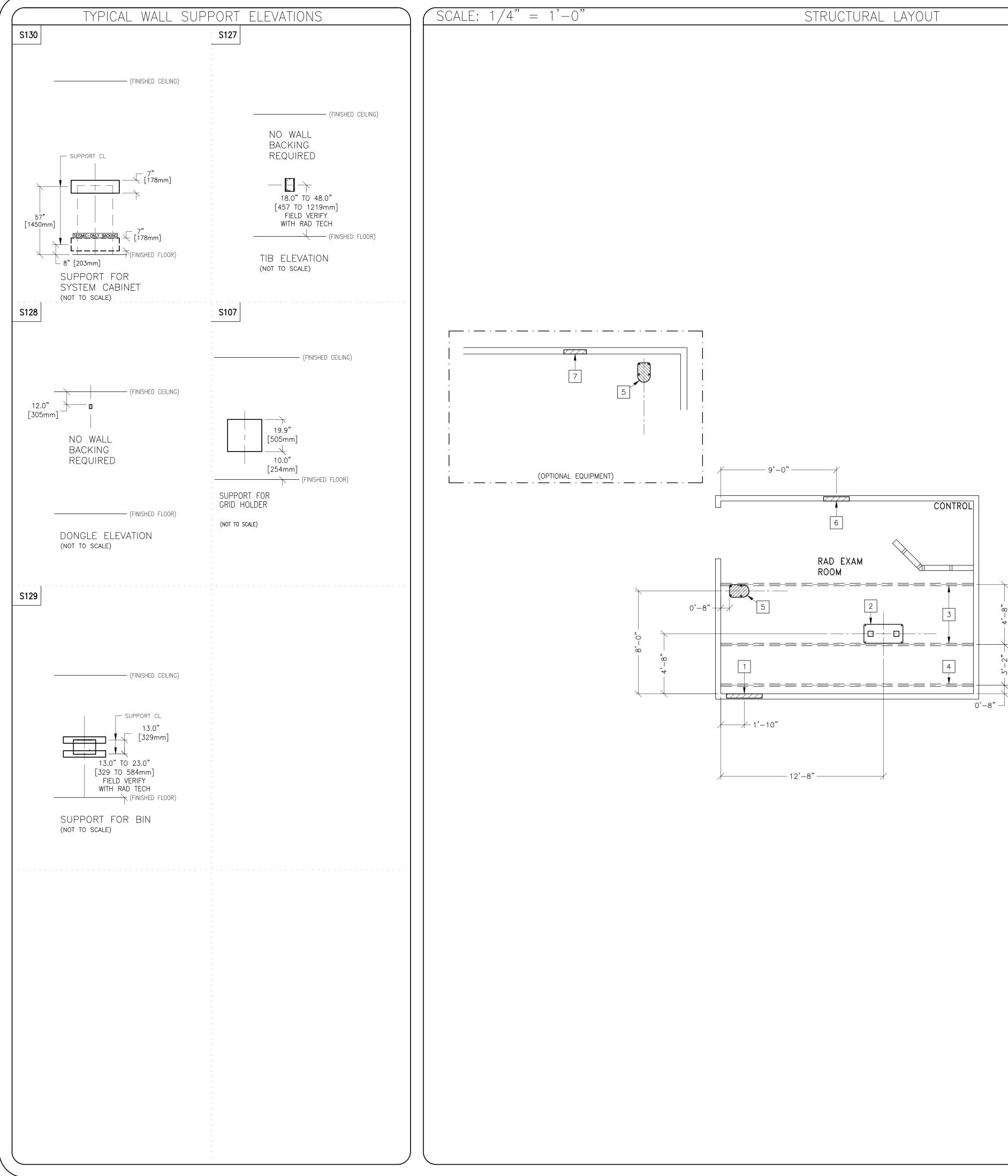
	<b>GE Healthcare</b> <b>Bealthcare</b> Realthcare Project Implementation – Design Center Milwaukee, Copyright 2009 General Electric Company – Proprietary to GE
	SHEET TITLE: SITE READINESS MODALITY TYPE: OPTIMA XR646 THIS PLAN IS SUBMITTED TO SUGGEST LOCATION OF GE HEALTHCARE EQUIPMENT AND ASSOCIATED APPARATUS, ELECTRICAL WIRING DETAILS AND ROOM ARRANGEMENTS. IN PREPARING THIS PLAN, EVERY EFFORT HAS BEEN MADE TO CONFORM DETAILS IN PREPARING THIS PLAN, EVERY EFFORT HAS BEEN MADE TO CONFORM DETAILS TO ACTUAL EQUIPMENT EXPECTED TO BE INSTALLED. IT IS NOT TO BE USED FOR ACTUAL CONSTRUCTION PURPOSES, HOWEVER, AND THE COMPANY CANNOT ACCEPT RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.
	PROJECT TILE 1-150f TYPICAL FINAL
PIM R5	PROJECT       REVISION         1-150f       03         DATE:       09.Sep.16         DRAWN       BY:       JDR         CHECKED       BY:       REK         REVISION       HISTORY:
RQ – 163687	SHEET C 1 cssh0000-29.JMJ.2013

PER NOT	N E:	IENT ON ORDER FROM GE HEALTHCARE, INSTALI EITHER A QUOTE OR GON WAS ISSUED AT THE LOCAL CONDITIONS MAY DICTATE THAT ITEMS IDEN STALLED BY OTHERS.	DATE OF THE	SE DWGS	REFER P SEISMIC C STATUS	= SPECI	HART PROVAL ILATIONS/ NG APPRO	OVAL	This equipment layout indicates the plo of these components. It remains the
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- QUANTITY ORDERED REFER TO SHEET "D"  ITEM DESCRIPTION (* = EXISTING/REINSTALL)  SYSTEM CABINET X8636 G2/646 DIGITAL CLEVATING TABLE TETHER INTERFACE BOX CABLE DRAPE RAIL. XT RADIDGRAPHIC SUSPENSION WITH NDORTUDINAL STATIONARY RAIL FOR XT SUSPENSION OPERATORS CONSOLE  DIGITAL CHEST UNIT DONGLE GRID HOLDER (FIELD VERIFY IDEAL LOCATION) - CPTIONAL	WEIGHT 705 lbs 970 lbs 15 lbs 182 lbs 68 lbs 595 lbs 4 lbs 30 lbs 33 lbs 33 lbs 683 lbs 617 lbs 617 lbs	372 btu 10 btu 105 btu 604 btu 136 btu 30 btu	DETAIL NO. B8125 B0557V B8126 B2020 CG1DCB B6566E B6566E B6566F B8138B B0557F B8137 B0557W	ONLY STRC PLAN - B055 58N - B200 079 B201 041 - B279 B201 041 - B57G - B57G - B57K - - B57K - - - - - - - - - - - - - - - - - - -	ELEC PLAN SKL RT TIB XTS1 WBC1 WLS D	С	
	TH AF	TE FOLLOWING ITEMS, WHICH HAVE BEEN C RE TO BE INSTALLED BY THE CUSTOMER O	RDERED FRO R HIS CONT	DM GE HEAL RACTOR.					

EQUIPMENT LAYOUT	RECOMMENDED CEILING HEIGHT
placement and interconnection of the indicated equipment components. There may be federal, s	state, and/or local requirements that could impact th
e Customer's responsibility for ensuring the site and final equipment placement complies with a	III applicable federal, state, and/or local requirements.

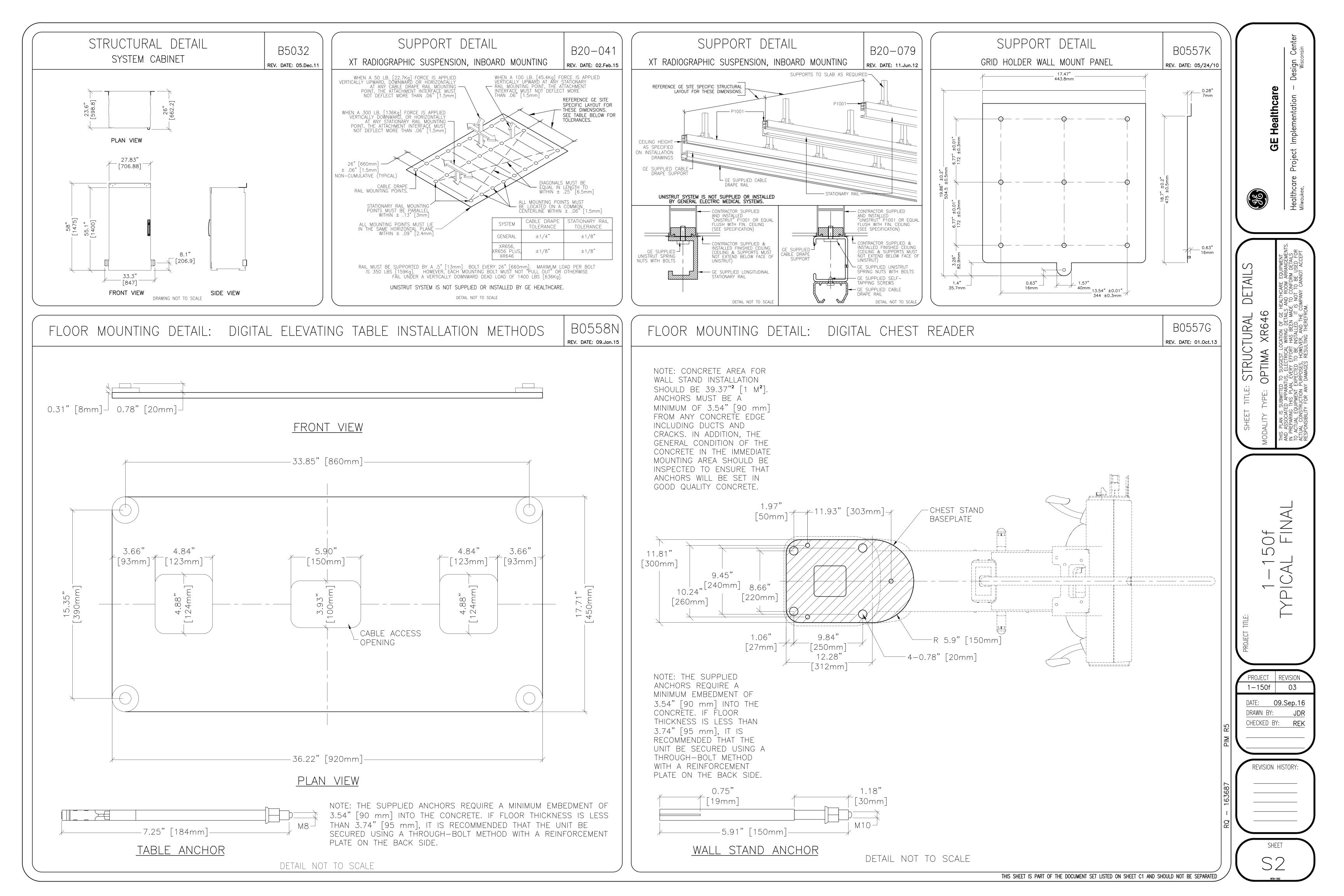


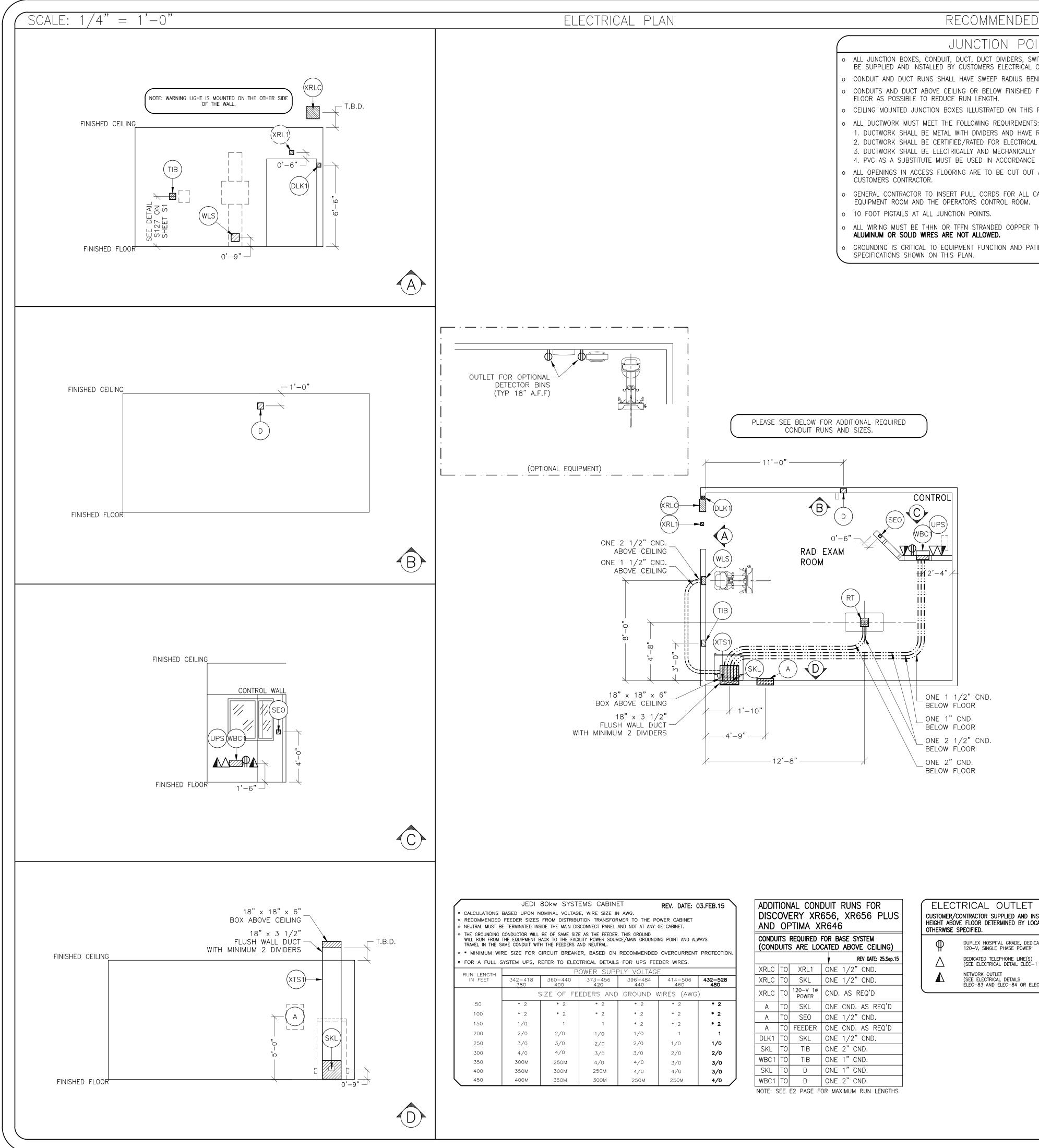
9'-6" placement	ANCILLARY ITEMS CUSTOMER/CONTRACTOR SUPPLIED AND INSTALLED	Center
·	ITEM	Design Ce <sup>Wisconsin</sup>
	NO. ITEM DESCRIPTION (* INDICATES EXISTING)	ition - tion
	60MINIMUM DOOR OPENING FOR EQUIPMENT DELIVERY IS 37.5 IN. W × 75 IN. H [950mm × 1900mm], CONTINGENT ON A 98.5 IN. [2500mm] CORRIDOR WIDTH NOTE: IMAGE PASTE OPTION REQUIRES AN 82 IN. H [2100mm] HIGH OPENING FOR ACCESS.61CONTROL WALL, 7 FT. HIGH WITH LEAD GLASS VIEWING	<b>GE Healthcare</b> Project Implementation -
	62 WINDOW. 62 COUNTER TOP FOR EQUIPMENT- MINIMUM DEPTH 24 IN. AND ADDITIONAL SHELVING MAY BE REQUIRED BELOW COUNTER TOP FOR PC TOWER. PROVIDE GROMMETED OPENINGS AS REQUIRED TO ROUTE CABLES.	ect Imp
	63X-RAY ON WARNING LIGHT - AVAILABLE FROM GE SUPPLY CALL: 800-200-9760 GE CAT. NO. WXIABWW-DF-XIU64DOOR LIMIT SWITCH (NEEDED ONLY IF REQUIRED BY STATE/LOCAL CODES)	
		Healthcare Milwaukee,
	THE FOLLOWING ITEMS ARE AVAILABLE FROM GE HEALTHCARE TECHNOLOGIES. CONTACT YOUR LOCAL GE HEALTHCARE SERVICE REPRESENTATIVE FOR PRICING AND AVAILABILITY.	MENT LAYOUT XR646 Cortion of ge healthcare equipment Location of ge healthcare equipment L wiring details and room arrangements. It has been made to conform details installed. It is not to be used for ever, and the company cannot accept Julting therefrom.
	90 X-RAY ROOM WARNING LIGHT CONTROL PANEL REFERENCE JUNCTION POINT 'XRLC' ON SHEET 'E1' FOR DETAILED DESCRIPTION -E4502RL FOR WARNING LIGHT CONTROL ONLY.	ARE EQUIP DOM ARRAN DNFORM DE TO BE USE CANNOT A
	91EMERGENCY OFF SWITCH (NEEDED ONLY IF REQUIRED BY STATE/LOCAL CODES)92MAIN DISCONNECT, REFERENCE JUNCTION POINT 'A' ON SHEET E1. <16" W × 24" H × 6" D)	LAYOUT 6 HEALTHCARE EG AND ROOM AF ADE TO CONFORM IT IS NOT TO BE COMPANY CANNU ROM.
		AFOR OF CE MIRING DETAILS MIRING DETAILS MIRING DETAILS MAING THE NSTALLED. IT NG THEREFRO
		LCX LCX LX
	GENERAL SPECIFICATIONS	TTTLE TYPE: SUBMITTE ATED APPAR UG THIS PLA UG THIS PLA USTRUCTION
	<ul> <li>THE REQUIRED CEILING HEIGHT INDICATED ON THESE PLANS IS TO ENSURE EQUIPMENT FUNCTION IS NOT INHIBITED. CONSULT WITH YOUR LOCAL GEHC IS SPECIALIST REGARDING ACCEPTABILITY OF OTHER CEILING HEIGHTS.</li> <li>CHECK ALL DOOR OPENINGS AND HALLWAYS FROM DELIVERY LOCATION TO WHERE</li> </ul>	SHEET SHEET MODALITY THIS PLAN IS AND ASSOCIAT IN PREPARING TO ACTUAL EC ACTUAL CONS RESPONSIBILIT
	<ul> <li>CHECK ALL DOOR OPENINGS AND HALLWAYS FROM DELIVERY LOCATION TO WHERE EQUIPMENT IS TO BE INSTALLED TO ENSURE THE ROUTE PHYSICALLY AND STRUCTURALLY WILL ACCOMODATE THE EQUIPMENT AS SHIPPED.</li> <li>RADIATION PROTECTION REQUIREMENTS ARE NOT INDICATED ON THIS PLAN. WHERE</li> </ul>	
	<ul> <li>NEEDED PER NATIONAL OR LOCAL CODE THEY SHALL BE SPECIFIED BY A QUALIFIED RADIOLOGICAL PHYSICIST.</li> <li>THE DEVELOPMENT OF THE EQUIPMENT LAYOUT, ROOM DIMENSIONS, MECHANICAL AND</li> </ul>	
	ELECTRICAL SUGGESTIONS IS PREDICATED UPON THE BEST INFORMATION OBTAINABLE FROM THE SITE, COUPLED WITH THE CUSTOMER'S KNOWN DESIRES. ARCHITECTURAL OR ELECTRICAL CHANGES INCLUDING RELOCATION OF EQUIPMENT ILLUSTRATED ON THIS DRAWING IS ALLOWED ONLY WITH NOTIFICATION, IN WRITING, AND REVIEW BY GEHC SERVICE DEPARTMENT. EQUIPMENT OPERATION, SERVICEABILITY, AND RESTRICTING CABLE LENGTHS, ETC., MAKE THIS ESSENTIAL FOR A PROPER IS. GEHC RESERVES THE RIGHT TO MAKE ON THE JOB CHANGES BECAUSE OF CUSTOMER REQUIREMENTS AND/OR OBSTACLES IN CONSTRUCTION, ETC	)f TINAL
	<ul><li>ALL WORK TO BE IN COMPLIANCE WITH NATIONAL AND LOCAL BUILDING SAFETY CODES.</li><li>DIMENSIONS ARE TO FINISHED SURFACES OF ROOM</li></ul>	
	SITE ENVIRONMENT SPECIFICATIONS	Ŭ Ì Ŭ
	<ul> <li>AMBIENT OPERATING TEMPERATURE: 59 TO 95 DEGREES (F), MAXIMUM ALLOWABLE TEMPERATURE CHANGE OF 10 DEGREES (C)/HOUR.</li> </ul>	
	<ul> <li>HUMIDITY: REFER TO PREINSTALLATION MANUAL FOR THE EQUIPMENT ILLUSTRATED ON THIS DRAWING.</li> <li>REFER TO PREINSTALLATION MANUAL FOR THE EQUIPMENT ILLUSTRATED ON THIS DRAWING</li> </ul>	
	<ul> <li>THE ENVIRONMENT FOR THE ELECTRONICS CABINET MUST BE CONTROLLED SO THE ABOVE RESTRICTIONS ARE NOT EXCEEDED.</li> <li>DO NOT RESTRICT THE AIR INTAKE AT THE LOWER FRONT OR AIR EXHAUST AT THE TOP OF THE ELECTRONICS CABINETS.</li> </ul>	PROJECT
		PROJECT REVISION
		1-150f 03 DATE: 09.Sep.16
		DRAWN     BY:     JDR       CHECKED     BY:     REK
	X-RAY TUBES MUST BE LOCATED IN AMBIENT STATIC MAGNETIC FIELDS OF LESS THAN 10 GAUSS TO GUARANTEE SPECIFIED PERFORMANCE.	
	SYSTEM ELECTRONICS MUST BE LOCATED IN AMBIENT STATIC MAGNETIC FIELDS OF LESS THAN 10 GAUSS TO GUARANTEE DATA INTEGRITY. OPERATORS CONSOLE EQUIPMENT MUST BE LOCATED IN AMBIENT STATIC MAGNETIC	REVISION HISTORY:
		SHEET
	THIS SHEET IS PART OF THE DOCUMENT SET LISTED ON SHEET C1 AND SHOULD NOT BE SEPARATED	A1



RECOMMENDED CEILING HEIGHT =

9'-6"	STRUCTURAL SUPPORT METHODS	La
	CUSTOMER/CONTRACTOR SUPPLIED AND INSTALLED	ign Center <sup>Wisconsin</sup>
	ITEM NO. ITEM DESCRIPTION	. Design
	(* INDICATES EXISTING)          I SUPPORT BACKING, LOCATE AS SHOWN, REFER TO ELEVATION	Icare
	DETAIL S130, FOR SYSTEMS CABINET       2     FLOOR CONTACT AREA FOR TABLE	<b>GE Healthcare</b> Project Implementation -
	3 UNISTRUT OR EQUIVALENT SUPPORT IN CEILING FOR FASTENING CEILING SUPPORTED EQUIPMENT, SUPPORTS TO RUN CONTINUOUS WITH NO FITTINGS EXTENDING BELOW FACE OF UNISTRUT CHANNEL, RUN WALL TO WALL, BE PARALLEL, SQUARE, AND IN THE SAME HORIZONTAL PLANE, FLUSH WITH THE FINISHED CEILING, RAILS ARE MOUNTED TO THESE	ct Impl
	SUPPORTS EVERY 2'-2" AND REQUIRE 350 LBS. (597 LBS. IN SEISMIC REGIONS) PER BOLT LOAD. METHODS OF SUPPORT THAT PERMIT ATTACHMENT TO STRUCTURAL STEEL OR THROUGH BOLTS IN CONCRETE SHOULD BE FAVORED. DO NOT USE SCREW ANCHORS IN DIRECT TENSION.	
	4 UNISTRUT OR EQUIVALENT SUPPORT IN CEILING FOR FASTENING CABLE DRAPE RAIL, SUPPORTS TO RUN CONTINUOUS WITH NO FITTINGS EXTENDING BELOW FACE OF UNISTRUT CHANNEL, RUN WALL TO WALL, BE PARALLEL, SQUARE, AND IN THE SAME HORIZONTAL PLANE, FLUSH WITH THE FINISHED CEILING. RAILS ARE MOUNTED TO THESE	Healthcare
	SUPPORTS EVERY 2'-2" AND REQUIRE 50 LBS. PER BOLT LOAD. METHODS OF SUPPORT THAT PERMIT ATTACHMENT TO STRUCTURAL STEEL OR THROUGH BOLTS IN CONCRETE SHOULD BE FAVORED. DO NOT USE SCREW ANCHORS IN DIRECT TENSION.	Milwo
	<ul> <li>5 FLOOR CONTACT AREA FOR CHEST READER</li> <li>6 SUPPORT BACKING, REFER TO ELEVATION DETAIL S107, FOR GRID HOLDER.</li> </ul>	
	7 SUPPORT BACKING, LOCATE AS SHOWN, REFER TO ELEVATION Detail S129	MENT NGEMENTS ETAILS ED FOR ACCEPT
		LAYOUT EALTHCARE EQUIF AND ROOM ARRA TO CONFORM D NOT TO BE US MPANY CANNOT
		COMPANY COMPANY COMPANY
		SHEET TITLE: STRUCTURAL LAYOUT ODALITY TYPE: STRUCTURAL LAYOUT THIS PLAN IS SUBMITTED TO SUGGEST LOCATION OF GE HEALTHCARE EQUIPMENT AND ASSOCIATED APPARATUS, ELECTRICAL WIRING DETAILS AND ROOM ARRANGEMENTS IN PREPARING THIS PLAN, EVERY EFFORT HAS BEEN MADE TO CONFORM DETAILS IN PREPARING THIS PLAN, EVERY EFFORT HAS BEEN MADE TO CONFORM DETAILS ACTUAL CONSTRUCTION PURPOSES, HOWEVER, AND THE COMPANY CANNOT ACCEPT RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.
		UCTU MAX FEORT HAY RESULTING RESULTING
		STRUC OPTIMA OPTIMA TUS, ELECTRICAL A, EVERY EFFORT CXPECTED TO BE DURPOSES, HOWE
		TTLE: TYPE: ( SUBMITTED THIS PLAN THIS PLAN TRUCTION PUTTON PUTTUCTION PUTTUR
		SHEET ALITY T ALITY T ALITY T ASSOCIATEI REPARING 1 CTUAL EQU AL CONSTRING 1 CONSTRING 1 CONSTRING 1
		SHEE MODALITY MODALITY THIS PLAN IS AND ASSOCIA IN PREPARIN TO ACTUAL CON RESPONSIBIL
	STRUCTURAL NOTES     ALL STEEL WORK AND PARTS NECESSARY TO SUPPORT CEILING MOUNTED TUBE HANGER     OP OTHER FOLUENTATE TO BE SUPPLYED BY THE CUSTOMER OF HIS CONTRACTORS	Of FINAL
	OR OTHER EQUIPMENT ARE TO BE SUPPLIED BY THE CUSTOMER OR HIS CONTRACTORS. THE UNISTRUT OR EQUIVALENT STRUCTURE SHOULD RUN CONTINUOUS WITH NO FITTINGS EXTENDING BELOW FACE OF UNISTRUT CHANNEL, RUN WALL TO WALL, BE PARALLEL, SQUARE AND IN THE SAME HORIZONTAL PLANE FLUSH WITH FINISHED CEILING. THE	
	SYSTEM IS TO BE CROSS BRACED VERTICALLY, HORIZONTALLY AND DIAGONALLY TO ALLOW NO MOVEMENT AND A MAXIMUM OF 1,58mm(1/16") DEFLECTION. CLOSURE STRIPS SHALL BE PROVIDED FOR AREAS OF UNISTRUT EXPOSED AND WITHOUT MOUNTING UNITS.	$\square \square \square$
	<ul> <li>METHODS OF SUPPORT FOR THE STEELWORK THAT WILL PERMIT ATTACHMENT TO STRUCTURAL STEEL OR THROUGH BOLTS IN CONCRETE CONSTRUCTION SHOULD BE FAVORED. DO NOT USE CONCRETE OR MASONRY ANCHORS IN DIRECT TENSION.</li> </ul>	
	<ul> <li>AVORED. DO NOT USE CONCRETE OR MASONRY ANCHORS IN DIRECT TENSION.</li> <li>ALL UNITS THAT ARE WALL MOUNTED OR WALL SUPPORTED ARE TO BE PROVIDED WITH SUPPORTS WHERE NECESSARY. WALL SUPPORTS ARE TO BE SUPPLIED AND INSTALLED BY</li> </ul>	PROJECT TITLE:
	THE CUSTOMER OR HIS CONTRACTORS. SEE PLAN AND DETAIL SHEETS FOR SUGGESTED LOCATIONS AND MOUNTING HOLE LOCATIONS.	PROJE
	<ul> <li>ALL CEILING MOUNTED FIXTURES, AIR VENTS, SPRINKLERS, ETC. TO BE FLUSH MOUNTED, OR SHALL NOT EXTEND MORE THAN 6,35mm (1/4") BELOW THE FINISHED CEILING.</li> <li>CONTROL WALLS, WITH TUBE HANGER PASSAGE ABOVE SHALL BE CONSTRUCTED TO 2130mm (7", 0"), WICH.</li> </ul>	PROJECT REVISION
	2130mm (7'-0") HIGH. o FLOOR SLABS ON WHICH EQUIPMENT IS TO BE INSTALLED MUST BE LEVEL TO 3,17mm (1/8") in 3050mm (10'-0")	1-150f 03 DATE: 09.Sep.16
	<ul> <li>DIMENSIONS ARE TO FINISHED SURFACES OF ROOM.</li> <li>CUSTOMERS CONTRACTOR MUST PROVIDE ALL PENETRATIONS IN POST TENSION FLOORS.</li> </ul>	DRAWN BY: JDR CHECKED BY: REK
	DOCUMENTS FOR STANDARD ANCHORING METHODS ARE INCLUDED WITH GE EQUIPMENT DRAWINGS FOR GEOGRAPHIC AREAS THAT REQUIRE SUCH DOCUMENTATION.	
	OCUSTOMERS CONTRACTOR MUST PROVIDE AND INSTALL HARDWARE FOR THROUGH THE FLOOR" ANCHORING AND/OR ANY BRACING UNDER ACCESS FLOORS. THIS CONTRACTOR MUST ALSO PROVIDE FLOOR DRILLING THAT CANNOT BE COMPLETED BECAUSE OF AN OBSTRUCTION ENCOUNTERED WHILE DRILLING BY THE GE INSTALLER SUCH AS REBAR ETC.	REVISION HISTORY:
	• IT IS THE CUSTOMER'S RESPONSIBILITY TO PERFORM ANY FLOOR OR WALL PENETRATIONS THAT MAY BE REQUIRED. THE CUSTOMER IS ALSO RESPONSIBLE FOR ENSURING THAT NO SUBSURFACE UTILITIES (E.G., ELECTRICAL OR ANY OTHER FORM OF WIRING CONDUITS DIRING DUCT WORK OR STRUCTURAL SUBDORTS (LE DOST TENSION)	63687
	PENETRATION OPERATIONS (E.G. DRILLING AND INSTALLATION OF ANCHORS/SCREWS) PERFORMED DURING THE INSTALLATION PROCESS. TO ENSURE WORKER SAFETY, GE	
	INSTALLERS WILL PERFORM SURFACE PENETRATION OPERATIONS ONLY AFTER THE CUSTOMER'S VALIDATION AND COMPLETION OF THE "GE SURFACE PENETRATION PERMIT"	
		SHEET
	THIS SHEET IS PART OF THE DOCUMENT SET LISTED ON SHEET C1 AND SHOULD NOT BE SEPARATED	





#### RECOMMENDED CEILING HEIGHT = 9'-6'

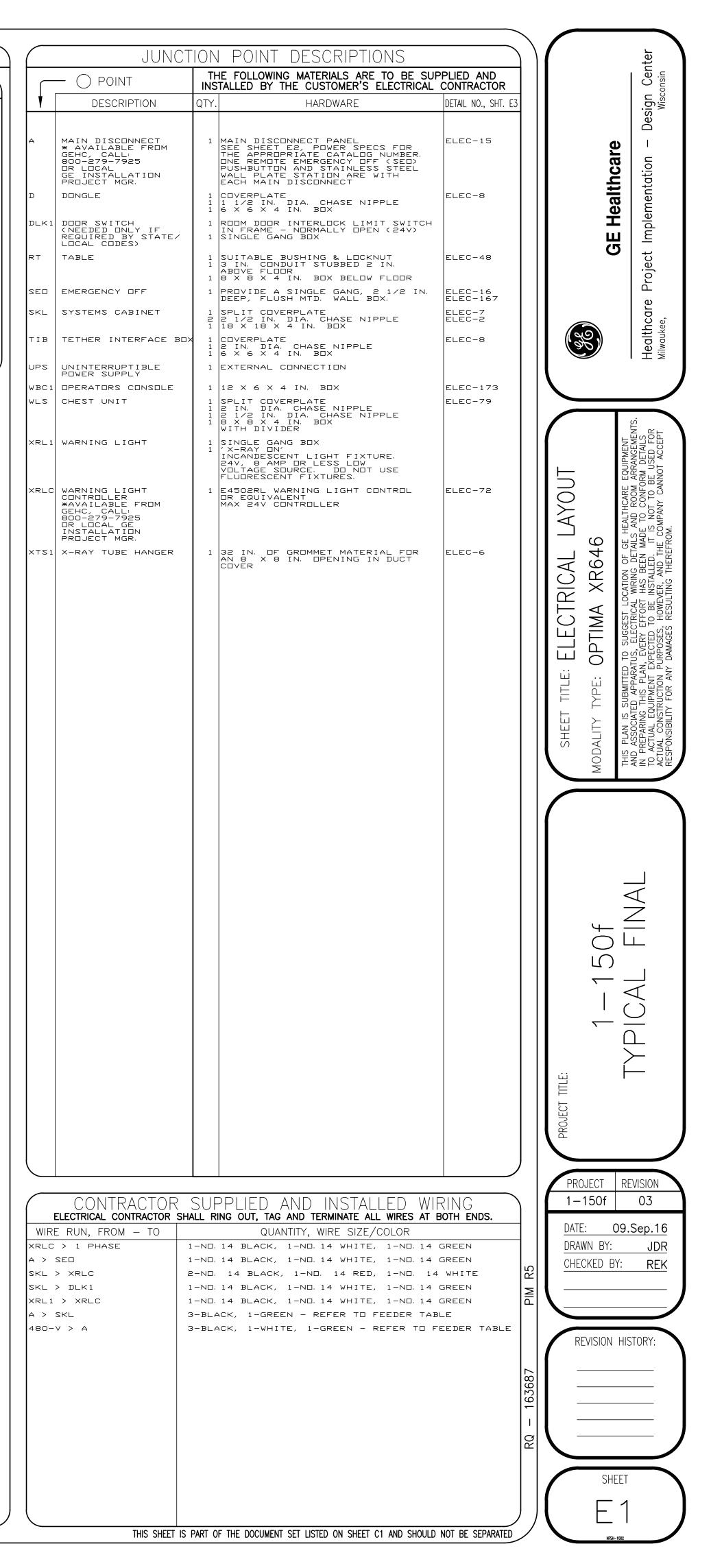
#### JUNCTION POINT NOTES

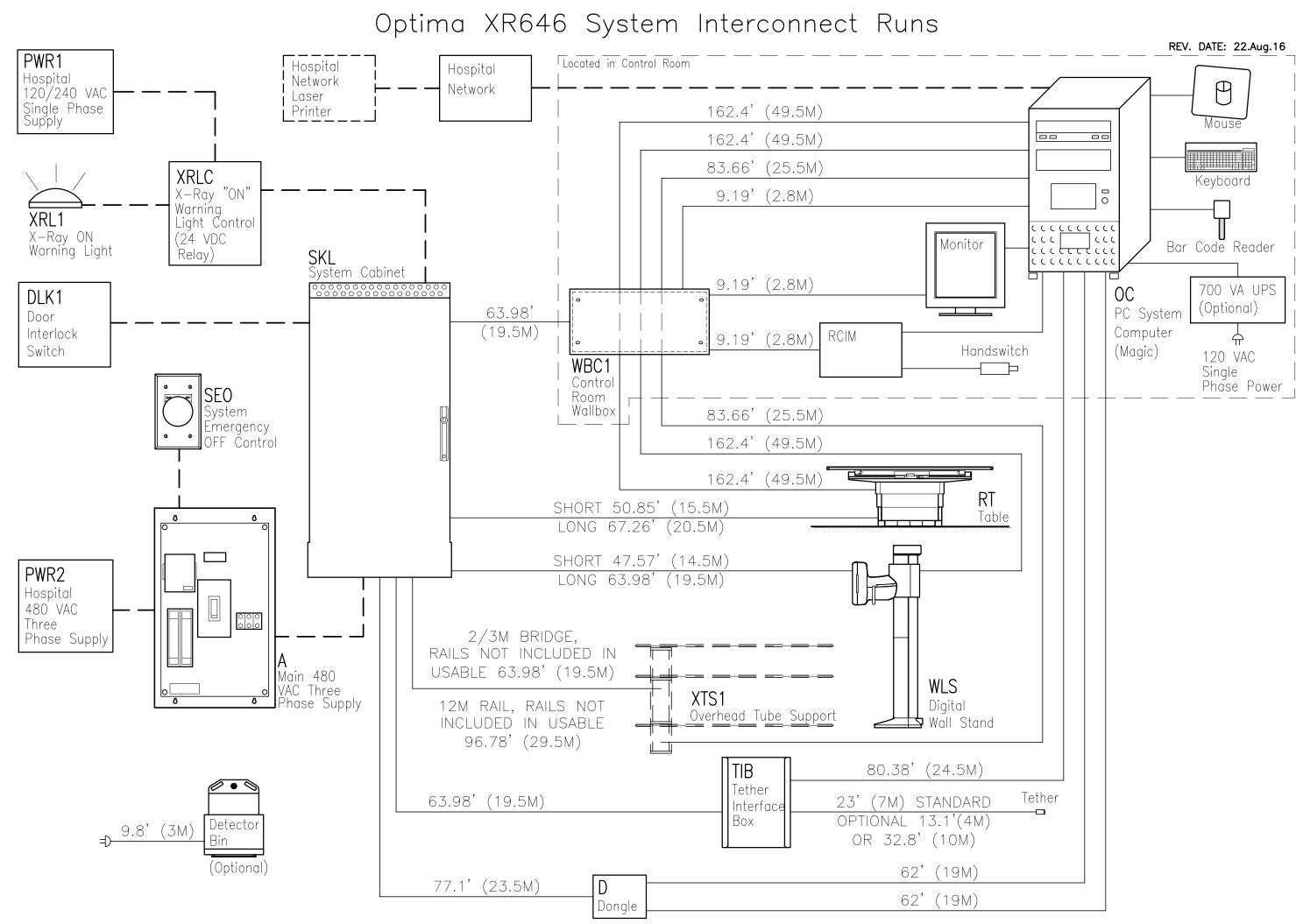
- ALL JUNCTION BOXES, CONDUIT, DUCT, DUCT DIVIDERS, SWITCHES, CIRCUIT BREAKERS, CABLE TRAY, ETC., ARE TO BE SUPPLIED AND INSTALLED BY CUSTOMERS ELECTRICAL CONTRACTOR.
- CONDUIT AND DUCT RUNS SHALL HAVE SWEEP RADIUS BENDS
- CONDUITS AND DUCT ABOVE CEILING OR BELOW FINISHED FLOOR MUST BE INSTALLED AS NEAR TO CEILING OR
- CEILING MOUNTED JUNCTION BOXES ILLUSTRATED ON THIS PLAN MUST BE INSTALLED FLUSH WITH FINISHED CEILING.
- 1. DUCTWORK SHALL BE METAL WITH DIVIDERS AND HAVE REMOVABLE, ACCESSIBLE COVERS.
- 2. DUCTWORK SHALL BE CERTIFIED/RATED FOR ELECTRICAL POWER PURPOSES.
- 3. DUCTWORK SHALL BE ELECTRICALLY AND MECHANICALLY BONDED TOGETHER IN AN APPROVED MANNER. 4. PVC AS A SUBSTITUTE MUST BE USED IN ACCORDANCE WITH ALL LOCAL AND NATIONAL CODES.
- ALL OPENINGS IN ACCESS FLOORING ARE TO BE CUT OUT AND FINISHED OFF WITH GROMMET MATERIAL BY THE
- GENERAL CONTRACTOR TO INSERT PULL CORDS FOR ALL CABLE RUN CONDUITS BETWEEN THE
- ALL WIRING MUST BE THHN OR TFFN STRANDED COPPER THERMOPLASTIC 600 VOLT OR EQUIVALENT INSULATION. ALUMINUM OR SOLID WIRES ARE NOT ALLOWED.
- GROUNDING IS CRITICAL TO EQUIPMENT FUNCTION AND PATIENT SAFETY. SITE MUST CONFORM TO WIRING

ABIN	ΞT	REV. DATE: 0	)3.FEB.15
PANEL FEEDER	N AWG. RMER TO THE PO AND NOT AT ANY . THIS GROUND RCE/MAIN GROUNDI	GE CABINET.	MAYS
RAL.			
	RECOMMENDED		PROTECTION.
	S FOR UPS FEE		
<u>50PF</u> 456 0	PLY VOLTAG 396-484 440	414-506 460	432-528 480
AND	GROUND V	VIRES (AWG	)
2	* 2	* 2	* 2
2	* 2	* 2	* 2
1	* 2	* 2	* 2
<b>´</b> 0	1/0	1	1
0	2/0	1/0	1/0
0	3/0	2/0	2/0
0	4/0	3/0	3/0
MC	4/0	4/0	3/0
~~~	0.5014	05014	

ADDITIONAL CONDUIT RUNS FOR DISCOVERY XR656, XR656 PLUS AND OPTIMA XR646					
			FOR BASE SYSTEM CATED ABOVE CEILING)		
			REV DATE: 25.Sep.15		
XRLC	ТО	XRL1	ONE 1/2" CND.		
XRLC	ТО	SKL	ONE 1/2" CND.		
XRLC	то	120-V 1ø POWER	CND. AS REQ'D		
А	ТО	SKL	ONE CND. AS REQ'D		
А	ТО	SEO	ONE 1/2" CND.		
А	ТО	FEEDER	ONE CND. AS REQ'D		
DLK1	ΤO	SKL	ONE 1/2" CND.		
SKL	ΤO	TIB	ONE 2" CND.		
WBC1	ТΟ	TIB	ONE 1" CND.		
SKL	ΤO	D	ONE 1" CND.		
WBC1	ΤO	D	ONE 2" CND.		
NOTE: S	FF	F2 PAGE E	OR MAXIMUM RUN LENGTHS		

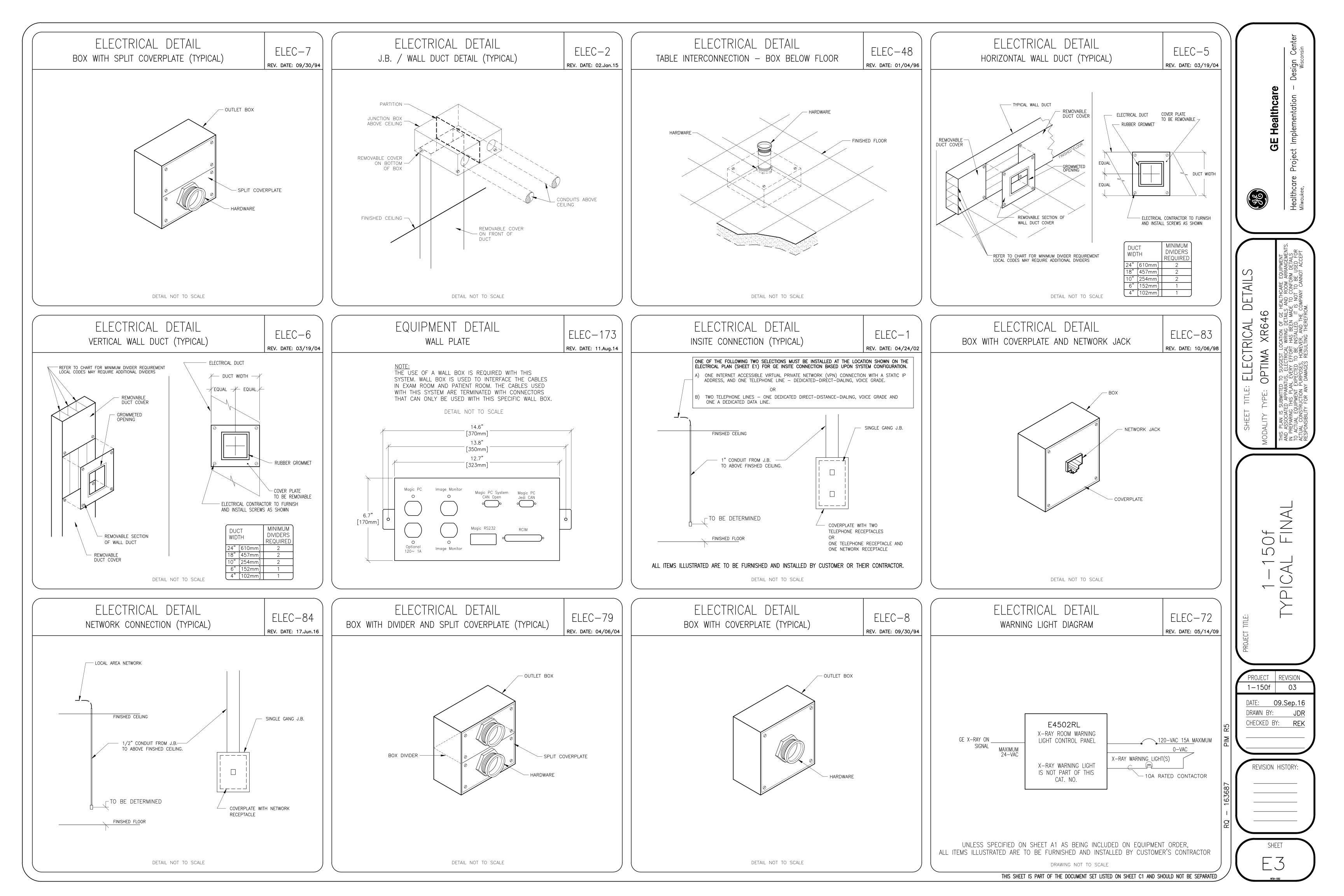
ELEC CUSTOMER/ HEIGHT ABO OTHERWISE	TRICAL OUTLET LEGEND CONTRACTOR SUPPLIED AND INSTALLED ITEMS. VE FLOOR DETERMINED BY LOCAL CODES UNLESS SPECIFIED.
Φ	DUPLEX HOSPITAL GRADE, DEDICATED OUTLET 120–V, SINGLE PHASE POWER
	DEDICATED TELEPHONE LINE(S) (SEE ELECTRICAL DETAIL ELEC–1 OR ELEC–67)
	NETWORK OUTLET (SEE ELECTRICAL DETAILS ELEC–83 AND ELEC–84 OR ELEC–87)

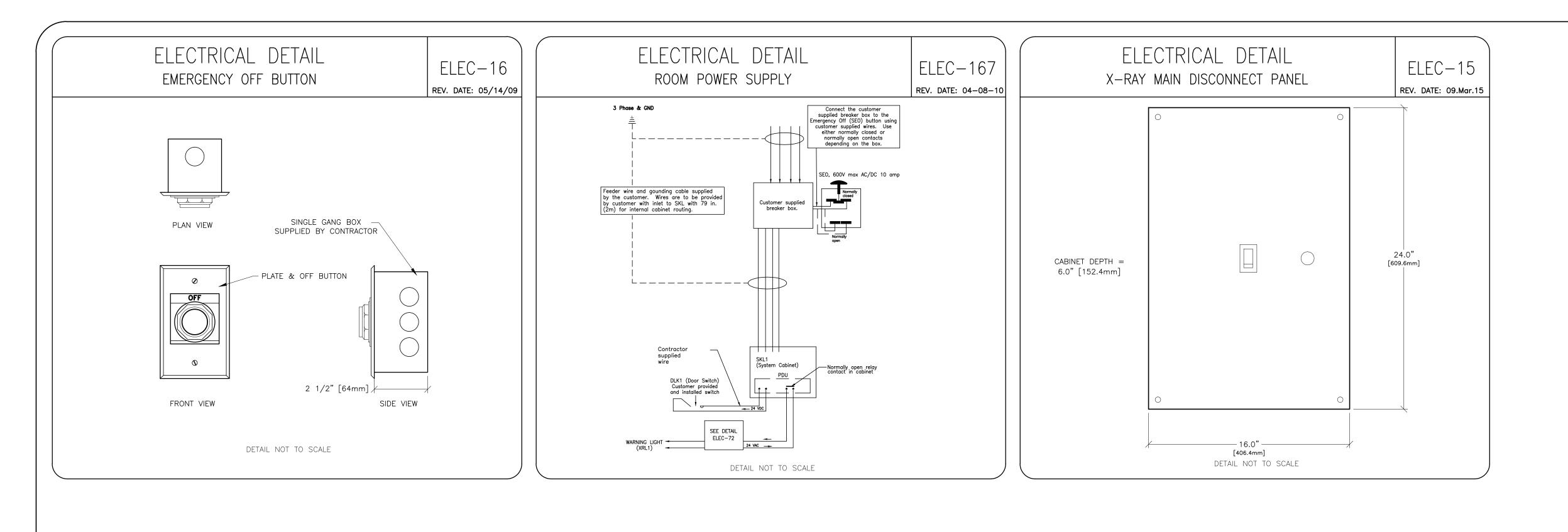


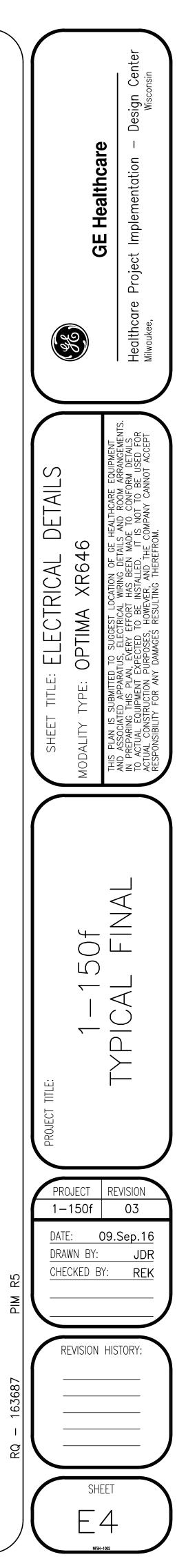


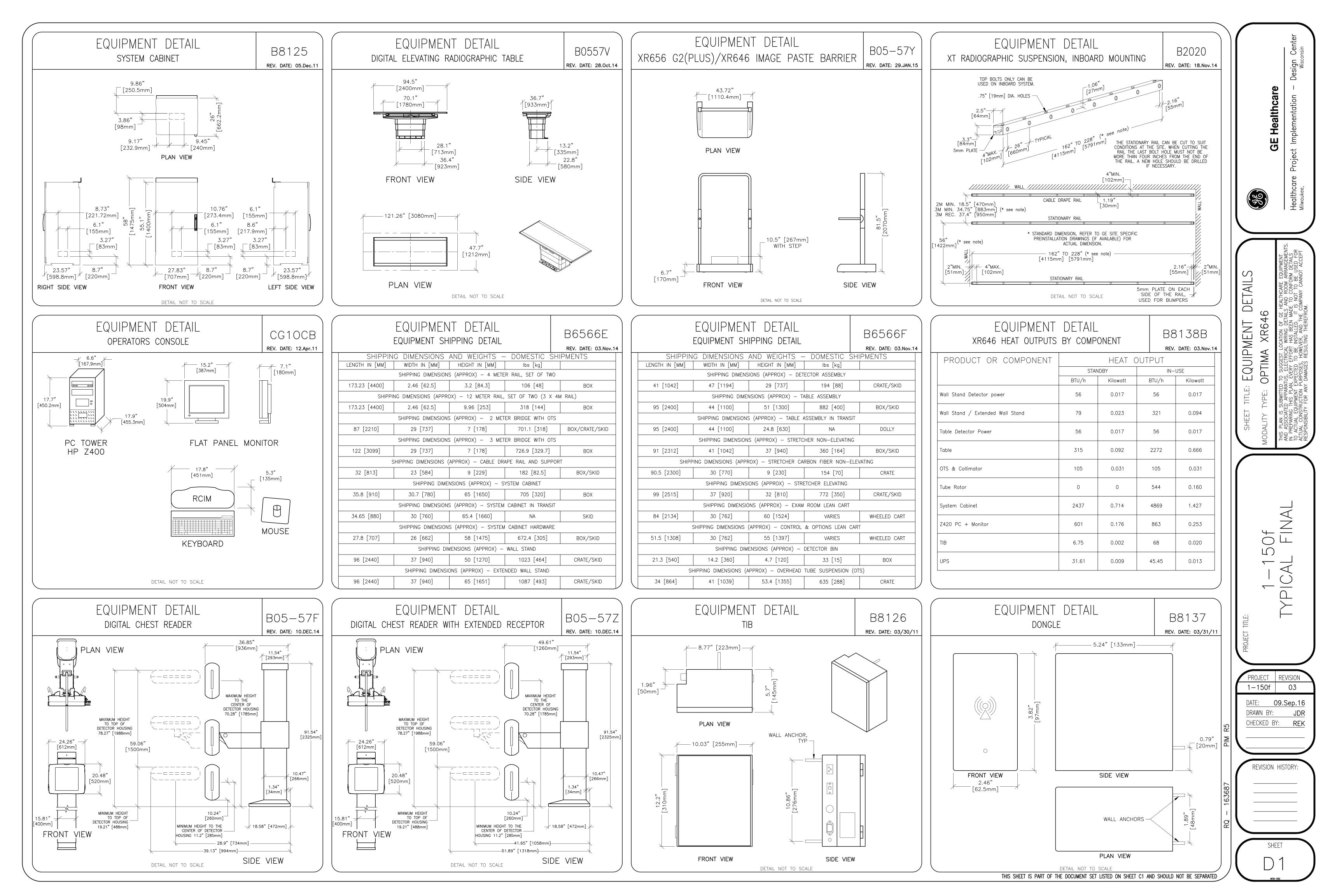
#### INTERCONNECT DIAGRAM

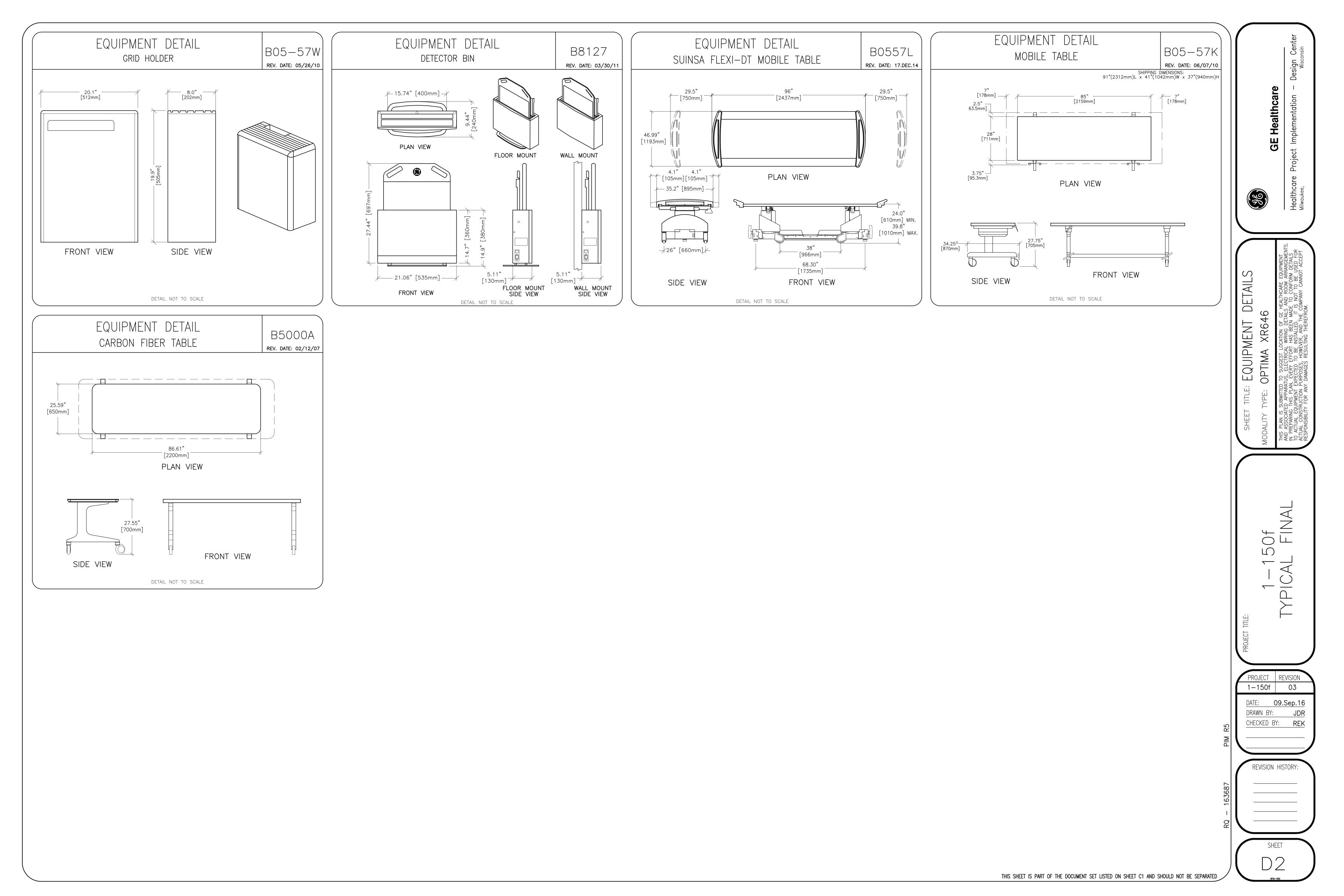
	PO	WER SPEC	IFICATIO	NS					 Center
		W SYSTEMS			/. DATE: 20.Mar.15				Design Cer <sup>Wisconsin</sup>
VOLTAGE PRIMARY SOURCE IS REQUIRED FOR ALL INSTALLATIONS. RANGE OF LINE VOLTAGES : NOMINAL LINE VOLTAGE OF 380 TO 480, 3 PHASE, WITHOUT NEUTRAL, 50 OR 60 Hz.								٩	
			Healthcare	tation					
TABLE A ALLOWABLE INPUT	THE RANGES I	NORMAL RANGE ±10 PERCENT	CURRENT MAX.	(AMPS)	MINIMUM OVERCURRENT			Неан	Project Implementation
VOLTAGES/ CURRENT DEMAND	380	342-418	MOMENTARY 190	CONTINUOUS	PROTECTION 95-A			Ц	set Im
	400 415	360-440 373-456	180 170	6.7 6.2	90-A 85-A				
	440 460	396-484 414-506	163 156	6 5.7	82-A 78-A				Healthcare <sup>Milwaukee,</sup>
	480 ALL CALCULA	432-528	0N NOMINAL	5.5 VOLTAGE	75-A			F)	Heal
NOTE	LOW LINE CON THE GENERATO BASED ON AC	NDITIONS MAY INF DR AUTOMATICALLY TUAL LINE CONDI	HIBIT SOME Y ESTABLISH TIONS AND	HIGH kVp T IES THESE SYSTEM REI	ECHNIQUES. INHIBITS GULATION.				
PHASE— BALANCE	PHASE-TO-PH OF THE LOWES TRANSIENT VO LINE VOLTAGE	HASE VOLTAGES M ST PHASE-TO-PH LTAGE EXCURSION AT A MAXIMUM [	IUST BE WIT HASE VOLTAG NS ARE 2.5	THIN +2 PE Ge. Maximi Percent ( F 5 cycles	um allowable	Ē	SN		PMENT INGEMENTS. DETAILS SED FOR ACCEPT
POWER DEMAND	FREQUENCI U	F 10 TIMES PER	HUUK.			4)	CATIO		ARE EQUIPME DOM ARRANGI INFORM DETA TO BE USED CANNOT ACC
TABLE B		DEMAND	VALUE				SPECIFICATIONS		EALTHCAR AND ROO TO CONI S NOT TO MPANY C.
MAXIMUM MOMENTARY POWER DEMAND.		kVa * POWER FACTOR AT	125 0.73	-			SPE	346	OF GE HE DETAILS / EN MADE ED. IT IS D THE CO
		mA kVp	630 80				ICAL	XR646	OCATION WIRING HAS BE INSTALLE VER, AND
	* DEMAND Line Vol Must be	INCLUDES POWER TAGE REGULATION LESS THAN OR	: FOR ENTIR I AT MAXIMU EQUAL TO (	E SYSTEM. JM POWER 6 PERCENT.	DEMAND		ELECTRICAI	OPTIMA	GGEST L( LECTRICAL Y EFFORT D TO BE ES, HOWE
DISTRIBUTION TRANSFORMER	FOR A SINGLE	UNIT INSTALLATI SYNTHESIZED POV	ON, THE MI	NIMUM TRAN	NSFORMER SIZ	E		DPT	TED TO SU ARATUS, EL ILAN, EVER' IT EXPECTE N PURPOSE
		MP DISCONNECT						ТҮРЕ:	SUBMITTE D APPAR THIS PLA JIPMENT RUCTION
STANDARD DISCONNECTS	E4502RS 110 A	MP DISCONNECT MP DISCONNECT							
	E4502RS 110 A E4502RT 150 A E4502RP 90 A E4502SA 110 A		AUTO-RESTART	-					LAN IS SSOCIATI EPARING TUAL EQ CONST
	E4502RS 110 A E4502RT 150 A E4502RP 90 A E4502SA 110 A	MP DISCONNECT MP DISCONNECT WITH MP DISCONNECT WITH	AUTO-RESTART	-			SHEET	MODALITY T	THIS PLAN IS AND ASSOCIATI IN PREPARING TO ACTUAL EQ ACTUAL CONST
	E4502RS 110 A E4502RT 150 A E4502RP 90 A E4502SA 110 A	MP DISCONNECT MP DISCONNECT WITH MP DISCONNECT WITH	AUTO-RESTART	-					THIS PLAN IS AND ASSOCIATI IN PREPARING TO ACTUAL CONST ACTUAL CONST
	E4502RS 110 A E4502RT 150 A E4502RP 90 A E4502SA 110 A	MP DISCONNECT MP DISCONNECT WITH MP DISCONNECT WITH	AUTO-RESTART	-					THIS PLAN IS AND ASSOCIATI IN PREPARING TO ACTUAL EQ ACTUAL CONST
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01 - C1 - Cover Sheet 02 - C2 - Disclaimer - Site Readiness 03 - A1 - General Notes 04 - A2 - Equipment Layout 05 - A3 - Section Views 06 - A4 - Equipment Details & Delivery	10 - S4 - Structural Details (2) 11 - M1 - HVAC 12 - E1 - Electrical Notes 13 - E2 - Electrical Layout 14 - E3 - Electrical Elevations 15 - E4 - Details-Interconnections	(ge)	G	E Health		9 Cody	Cody Ayers 13-251-0235 y.ayers@ge.com	
07 - S1 - Structural Notes 08 - S2 - Structural Layout 09 - S3 - Structural Details (1)	51 - Structural Notes 16 - E5 - Power Requirements 52 - Structural Layout				OPTIMA FINAL S	TUDY		
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#### DISCLAIMER

#### **GENERAL SPECIFICATIONS**

- GE is not responsible for the installation of developers and associated equipment, lighting, cassette trays and protective screens or derivatives not mentioned in the order.
- The final study contains recommendations for the location of GE equipment and associated devices, electrical wiring and room arrangements. When preparing the study, every effort has been made to consider every aspect of the actual equipment expected to be installed.
- The layout of the equipment offered by GE, the dimensions given for the premises, the details provided for the pre-installation work and electrical power supply are given according to the information noted during on-site study and the wishes expressed by the customer.
- The room dimensions used to create the equipment layout may originate from a previous layout and may not be accurate as they may not have been verified on site. GE cannot take any responsibility for errors due to lack of information.
- Dimensions apply to finished surfaces of the room.
- Actual configuration may differ from options presented in some typical views or tables.
- If this set of final drawings has been approved by the customer, any subsequent modification of the site must be subject to further investigation by GE about the feasibility of installing the equipment. Any reservations must be noted.
- The equipment layout indicates the placement and interconnection of the indicated equipment components. There may be local requirements that could impact the placement of these components. It remains the customer's responsibility to ensure that the site and final equipment placement complies with all applicable local requirements.
- All work required to install GE equipment must be carried out in compliance with the building regulations and the safety standards of legal force in the country concerned.
- These drawings are not to be used for actual construction purposes. The company cannot take responsibility for any damage resulting therefrom.

#### CUSTOMER RESPONSIBILITIES

- It is the responsibility of the customer to prepare the site in accordance with the specifications stated in the final study. A detailed site readiness checklist is provided by GE. It is the responsibility of the customer to ensure all requirements are fulfilled and that the site conforms to all specifications defined in the checklist and final study. The GE Project Manager of Installation (PMI) will work in cooperation with the customer to follow up and ensure that actions in the checklist are complete, and if necessary, will aid in the rescheduling of the delivery and installation date.
- Prior to installation, a structrual engineer of record must ensure that the floor and ceiling is designed in such a way that the loads of the installed system can be securely borne and transferred. The layout of additional structural elements, dimensioning and the selection of appropriate installation methods are the sole responsibility of the structural engineer. Execution of load bearing structures supporting equipment on the ceiling, floor or walls are the customer's responsibility.

#### **RADIO-PROTECTION**

Suitable radiological protection must be determined by a qualified radiological physicist in conformation with local regulations. GE does not take responsibility for the specification or provision of radio-protection.

THE UNDERSIGNED, HEREBY CERTIFIES THAT I HAVE READ AND APPROVED THE PLANS IN THIS DOCUMENT.					
DATE	NAME	SIGNATURE			
DATE	NAME	SIGNATURE			

#### St Lukes Hospital of Kansas City

#### Rev A Date 30/Jun/2021

#### Site Ready Checks at Installation **EHS Site Requirements** Overall access route to the scan room free from obstruction / high hazards. Enough space to store tools, equipment, parts, install waste and the general area free from obstruction and trip hazards. Enough necessary facilities for the GE employees available. No 3rd parties working in the area that may affect the safety of the installation activity. Area free from any chemical, gas, dust, welding fume exposure and has painting been completed and dry. All emergency routes identified, signed and clear from obstruction. Accessible single source lockable panel that LOTO can be applied to for GE equipment installation (MDP and/or PDU). There are no other conditions or hazards that you have observed or have been made aware of by the customer or contractors on site. **Required for Mechanical Install start** Room dimensions, including ceiling height, for all Exam, Equipment/Technical & Control rooms meets GE specifications. Ceiling support structure, if indicated on the GE drawing, is in the correct location and at the correct height according to the Original Equipment Manufacturer specifications. Levelness and spacing has been measured, and is ready for the installation of any GE supplied components. Overhead support Structure (unistrut) has been confirmed with customer/contractor to meet required GE provided criteria. Finished ceiling is installed. If applicable ceiling tiles installed per PMI discretion. Floor levelness/flatness is measured and within tolerance, and there are no visible defects per GEHC specifications. Entry door threshold meets PIM requirement. Rooms that will contain equipment, including staging areas if applicable, are construction debris free. Precautions must be taken to prevent debris from entering rooms containing equipment. Cable ways (floor/wall/ceiling/Access Flooring) are available for installation of GE cables are of correct length and diameter. Cable ways routes per GE Final drawings and cable access openings areas installed at a time determined by GEHC PM. Surface floor duct can be installed at time of system installation. Adequate room illumination installed and working. Customer supplied countertops where GE equipment will be installed are in place. **Required for Calibration Start** HVAC systems Installed, and the site meets minimum environmental operational system requirements. System power & grounding (PDB/MDP) is available as per GE specifications. System power & grounding (PDB/MDP) is installed at point of final connection and ready to use. Lock Out Tag Out is available. PMI to confirm all feeder wires and breaker are size appropriately. EPO installed if needed. PMI to confirm with electrician all power and signal cables are well terminated ensuring there are no loose connections. Network outlets installed. Computer network available and working. Lead doors and windows complete or scheduled to be installed. If applicable, radiation protection (shielding) finished & radioprotection regulatory approval for installation obtained.

Note: The details shown here are only an extract from DOC1809666. For the complete document please contact your PMI.

#### **GLOBAL SITE READINESS CHECKLIST (DI)**

#### DOC1809666 Rev. 7

#### **CUSTOMER SITE READINESS REQUIREMENTS**

- Any deviation from these drawings must be communicated in writing to and reviewed by your local GE ٠ healthcare installation project manager prior to making changes.
- Make arrangements for any rigging, special handling, or facility modifications that must be made to deliver • the equipment to the installation site. If desired, your local GE healthcare installation project manager can supply a reference list of rigging contractors.
- New construction requires the following;
  - Secure area for equipment, 1.
  - 2. Power for drills and other test equipment,
  - Capability for image analysis, 3.
  - 4. Restrooms.
- Provide for refuse removal and disposal (e.g. crates, cartons, packing)
- It is the customer's responsibility to contract a vibration consultant/engineer to implement site design ٠ modifications to meet the GE vibration specification. Refer to the system preinstallation manual for the vibration specification.

#### **ENVIRONMENTAL SPECIFICATIONS**

#### **MAGNETIC INTERFERENCE**

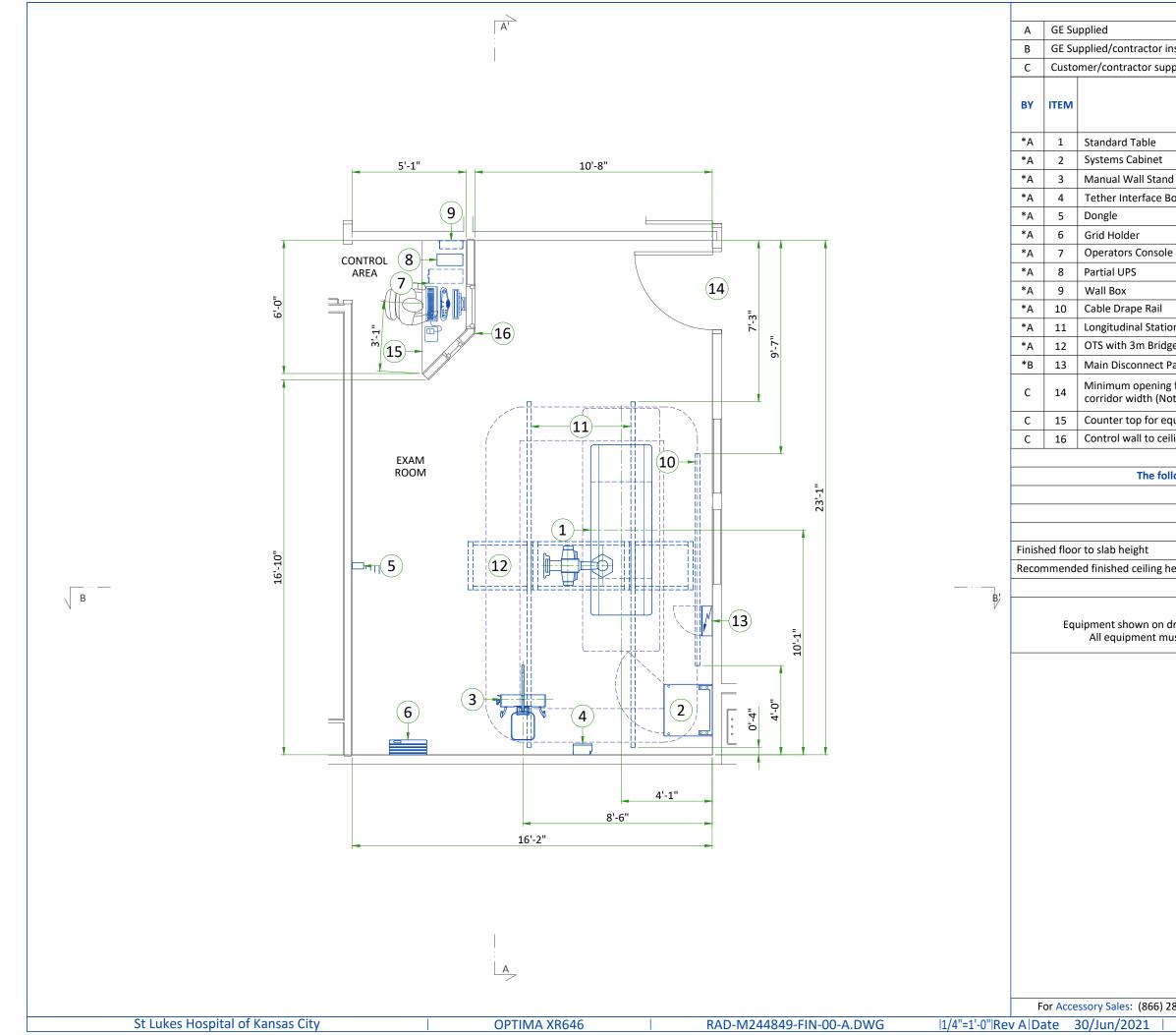
In order to avoid interference on the system, static field limits from the surrounding environment must be less than <1 Gauss around the unit.

#### LIGHT REQUIREMENTS

For the electronic ballast of fluorescent lamp in exam room, the operating frequency should be above 42 kHz.

#### ACOUSTIC OUTPUT

Measured 1 m [3.28 ft] from any point in system. less than 55 dBA In-use: Stand-by: less than 55 dBA

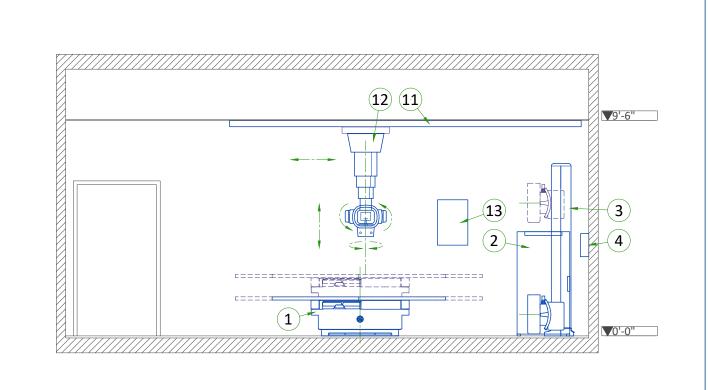


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	height <u>Room Move</u> drawing is being reloca	Note: ted/re				

# **EXAM ROOM CEILING HEIGHTS**

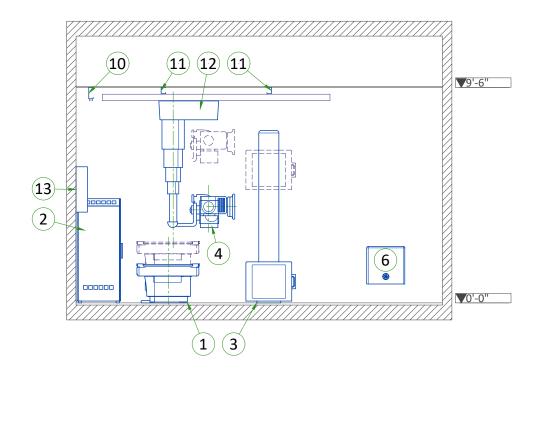
RECOMMENDED AND MINIMUM ROOM HEIGHTS						
CONFIGURATION	SPECIFICATIONS	CEILING	HEIGHT			
2M or 3M Bridge	Recommended	2986 mm	117.6 in			
2M or 3M Bridge	Minimum	2686 mm	105.75 in			
2M or 3M Bridge with Extended Wallstand at Foot Position	Minimum	2750 mm	108.27 in			

Note : measured from the floor to the top of the longitudinal rails

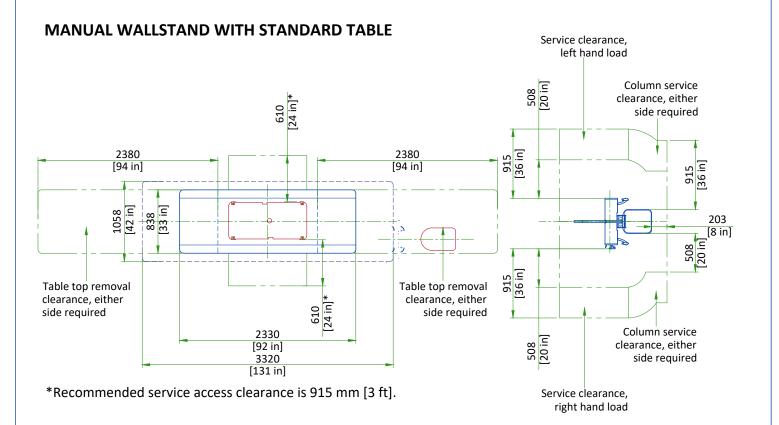


SIDE VIEW A-A'

# **FRONT VIEW B-B'**



# **CLEARANCE AREAS**

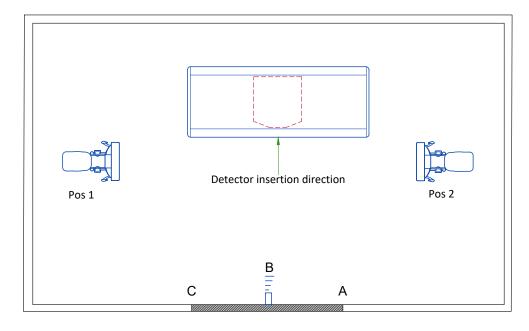


**SCALE 1:50** 

# **DONGLE POSITIONING**

#### DONGLE DEFAULT LOCATION AND ADJUSTING RANGE:

- Dongle shall be positioned at the wall of detector insertion direction. ٠
- B is the best position which is in the middle of the wall. •
- The height requirement of dongle is 30 cm [11.8 in] lower than the ceiling. ٠
- Position "A" to "C" (around ±1 m [±39.4 in]) are acceptable locations for dongle.
- ٠ There shall be no obstructions in the path between dongle and detector applications.



## THE CUSTOMER/CONTRACTOR SHOULD:

- Provide an area adjacent to the installation site for delivery and unloading of the GE equipment.
- movement of GE equipment from the delivery area into the definitive installation room.
- Ensure that access routes for equipment will accommodate the weights of the equipment and any ٠ transportation, lifting and rigging equipment.
- Ensure that all necessary arrangements for stopping and unloading on public or private property not • belonging to the customer have been made.

## **DIMENSIONS OF DELIVERY IN TRANSIT**

EQUIPMENT		DIMENSIONS			IGHT
	LENGTH	1999 mm	78.7 in		
MANUAL WALLSTAND	WIDTH	911 mm	35.9 in	240 kg + dolly	530 lbs + dolly
	HEIGHT	1840 mm	72.4 in		
	LENGTH	1319 mm	51.9 in		500 7 11
STANDARD TABLE	WIDTH	833 mm	32.8 in	267.5 kg + dolly	589.7 lbs + dolly
	HEIGHT	570 mm	24.5 in		

Pay attention to the lengths of the rails! They can also be 5.79 m [19 ft] and have a shipping dimension of 5.92 m x 178 mm x 76 mm [16'-10" x 7" x 3"].



Ensure that the dimensions of all doors, corridors, ceiling heights are sufficient to accommodate the

# **STRUCTURAL NOTES**

- Methods of support for the steelwork that will permit attachment to structural steel or through bolts in • concrete construction should be favored. Do not use concrete or masonry anchors in direct tension.
- All units that are wall mounted or wall supported are to be provided with supports where necessary. Wall supports are to be supplied and installed by the customer or his contractors. See plan for suggested locations.
- Control walls shall be constructed to minimum 2130mm (7'-0") high.
- Dimensions are to finished surfaces of room.
- Customers contractor must provide all penetrations in post tension floors.
- Customers contractor must provide and install any non-standard anchoring. Documents for standard anchoring methods are included with GE equipment drawings for geographic areas that require such documentation.
- Customers contractor must provide and install hardware for "through the floor" anchoring and/or any bracing under access floors. This contractor must also provide floor drilling that cannot be completed because of an obstruction encountered while drilling by the GE installer such as rebar etc.
- It is the customer's responsibility to perform any floor or wall penetrations that may be required. The customer is also responsible for ensuring that no subsurface utilities (e.g., electrical or any other form of wiring, conduits, piping, duct work or structural supports (i.e. post tension cables or rebar)) will interfere or come in contact with subsurface penetration operations (e.g. drilling and installation of anchors/screws) performed during the installation process. To ensure worker safety, GE installers will perform surface penetration operations only after the customer's validation and completion of the "GE surface penetration permit".
- Different anchor types are used to install the components of the system. Refer to Structural Requirements Section(s) of the Pre-Installation Manual for each anchor requirement.
- Refer to the Structural Requirements Section for the required minimum embedment.
- The ground surface must be flat and leveled, maximum tolerance for leveling is ±1.5 mm per 1 m (0.2 in per 10 feet). A grout pad provided by the contractor is required to meet this specification. The maximum pad thickness is 6.3 mm (0.25 in).

# **CEILING REQUIREMENTS**

To allow installation of the stationary rail cross-members, clearance is required between the ends of the stationary rails and the walls.

It is recommended that sprinkler heads not be placed between the stationary rails. All sprinkler heads should be mounted so they do not extend downward more than 6.35 mm [1/4 in] from the ceiling while in the 'resting' position.

In addition, there should not be anything mounted in the ceiling (i.e. lights, A/C returns, etc) between the stationary rails. This is because the OTS longitudinal drive belt assembly is located on the movable bridge, approximately centered between the two stationary rails, and may come into contact with those ceiling-mounted items during normal use.

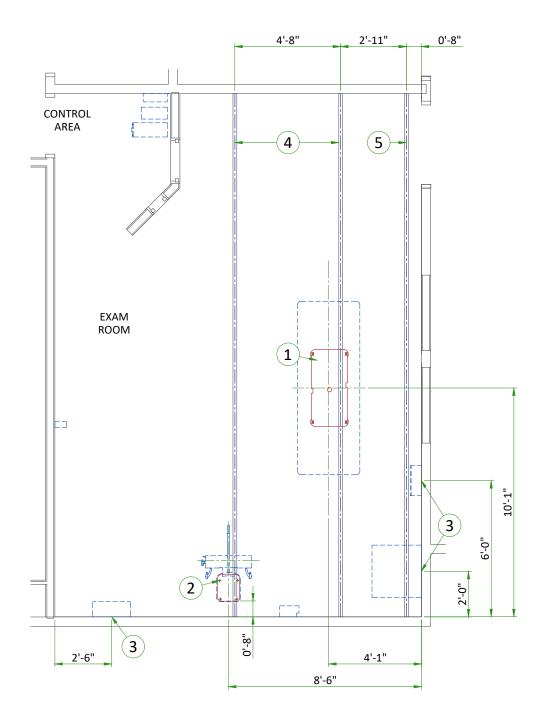
Stationary rails are designed for top (ceiling) mounting. Rails can be ordered and are supplied in the following sizes: - 5131 mm [16 ft 10 in]

- 4115 mm [13 ft 6 in]
- 4318 mm [14 ft 2 in]
- 4521 mm [14 ft 10 in]
- 4724 mm [15 ft 6 in]
- 4928 mm [16 ft 2 in]

- 5334 mm [17 ft 6 in]
- 5537 mm [18 ft 2 in]
- 5791 mm [19 ft]

The choice of length depends on room size, configuration and the possible presence of obstructions.

ITEM	
	(GI
1	Area occupied by GE sup
2	Area occupied by GE sup
	(!
3	Support backing, locate a
4	Structural support in ceil continuous with no fittin square, and in the same l these supports every 2'-2 Methods of support that should be favored. Do no
5	Structural support in ceili fittings extending below horizontal plane, flush wi 2'-2" and require 50 lbs. I structural steel or throug direct tension.
	1



**OPTIMA XR646** 

#### DESCRIPTION

#### GE SUPPLIED / CONTRACTOR INSTALLED)

pplied table baseplate

pplied wall stand baseplate

(CONTRACTOR SUPPLIED & INSTALLED)

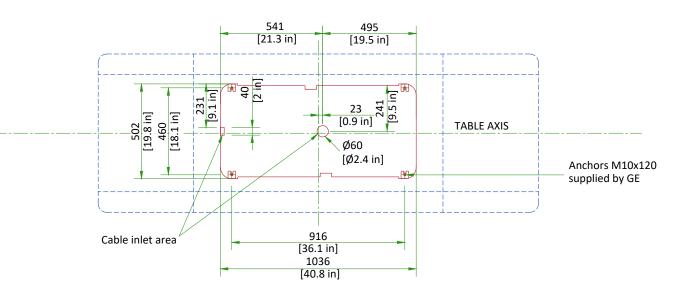
as shown.

iling for fastening ceiling supported equipment. Supports to run ngs extending below face of channel, run wall to wall, be parallel, horizontal plane, flush with the finished ceiling. Rails are mounted to -2" and require 350 lbs. (597 lbs. In seismic regions) per bolt load. It permit attachment to structural steel or through bolts in concrete not use screw anchors in direct tension.

iling for fastening cable drape rail. Supports to run continuous with no r face of channel, run wall to wall, be parallel, square, and in the same with the finished ceiling. Rails are mounted to these supports every . Per bolt load. Methods of support that permit attachment to gh bolts in concrete should be favored. Do not use screw anchors in

# **TABLE ANCHORING**

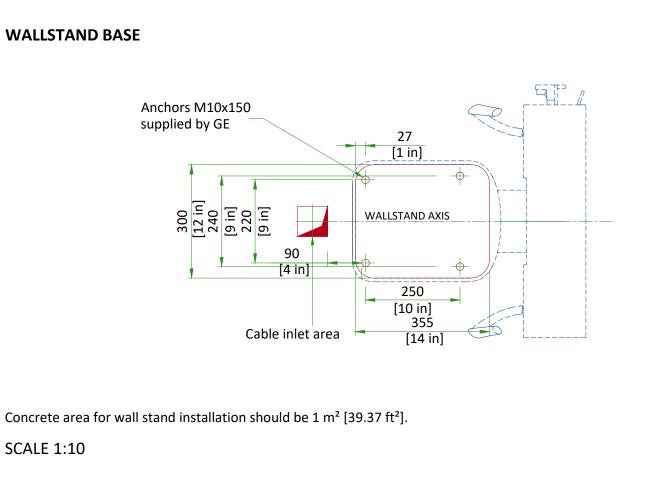
#### STANDARD TABLE STAND



The floor bearing the system is recommended to be concrete and the thickness to be determined by a Structural Engineer to properly support the equipment loads. The supplied anchors require a minimum embedment of 90 mm [3.5 in] into the concrete. If the floor thickness is less than 95 mm [3.7 in], it is recommended that the unit be secured using a through-bolt method with a reinforcement plate on the back side.

SCALE 1:20

# WALLSTAND ANCHORING



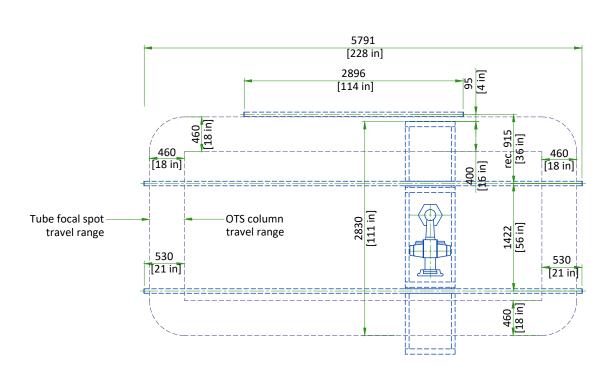
# **OTS SUSPENSION RAILS MOUNTING SPECIFICATIONS**

### 3 m BRIDGE

When a 22.7 kg [50 lb] force is applied vertically upward, downward or horizontally at any support rail mounting point, the attachment interface must not deflect more than 1.5 mm [1/16 in] When a 136 kg [330 lb] load is applied vertically downward or horizontally at any stationary rail mounting point, the attachment interface must not deflect more than 1.5 mm [1/16 in] 660.4 ±1.5 mm [26 ±1/16 in] Cable takeup support rail mounting points Stationary rail mounting points must be parallel within  $\pm 3 \text{ mm} [\pm 1/8 \text{ in}]$ 

Distance between holes axis 660.4 mm [26 in], Maximum load per screw is 160 kg [353 lb], however each mounting screw must not "PULL OUT" or otherwise fail under a vertically downward dead load of 635 kg [1400 lb]. Bolts for mounting stationary rails on Unistrut or equivalent supplied by GE (1/2" - 13 headed bolts)

# FOCAL SPOT TRAVEL WITH 3M BRIDGE



NOT TO SCALE Note: Focal Spot Travel depends on the length of the bridge, rails and position of bridge.

46 |

When a 45.4 kg [100 lb] force is applied vertically upward at any stationary rail mounting point, the attachment interface must not deflect more than 1.5 mm [1/16 in]

min. 883/rec. 950 ±3 mm [min. 34.75/rec. 37.4 ±1/8 in]

> 1422 ±3 mm [56 ±1/8 in]

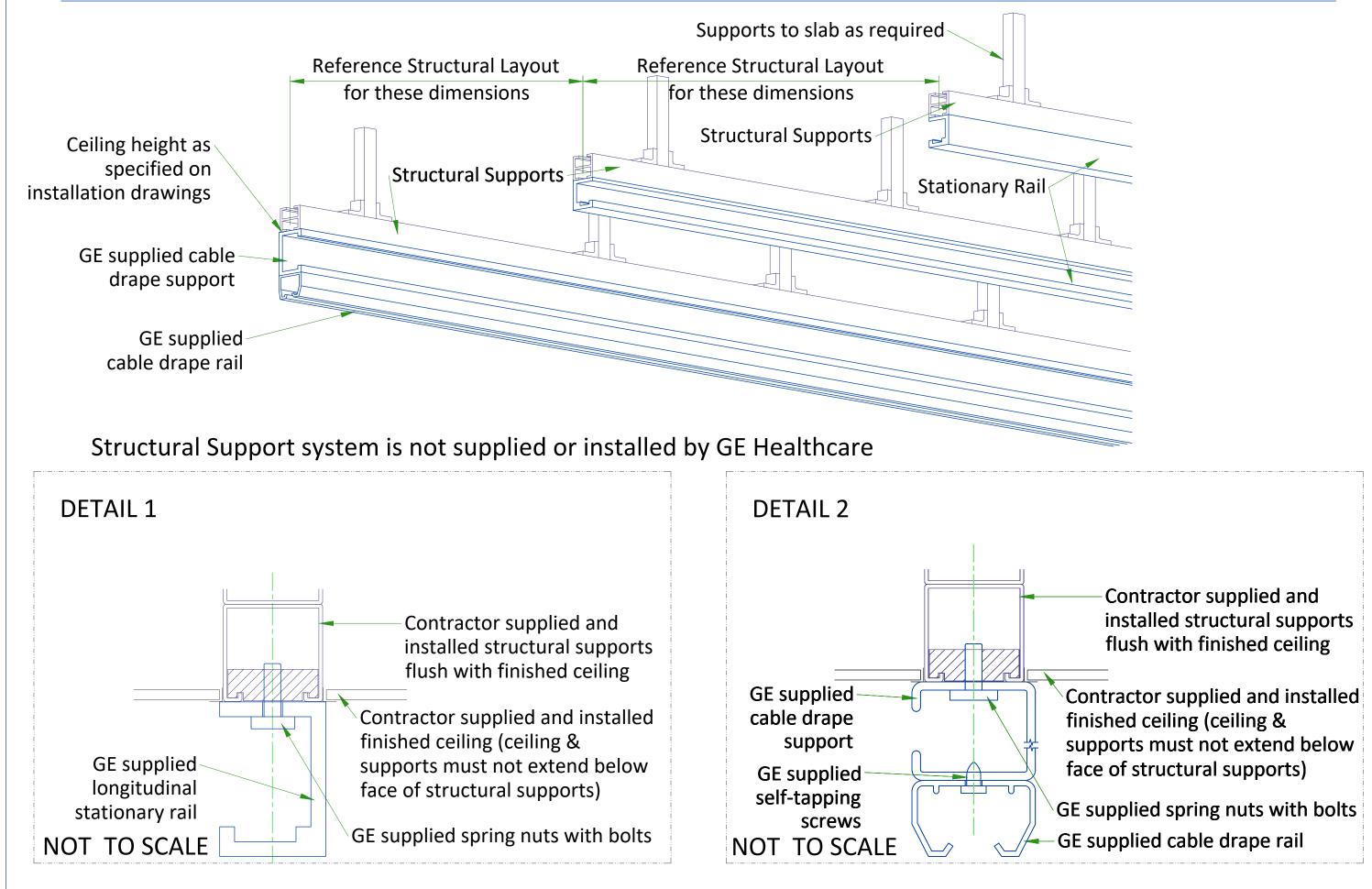
> > Diagonals must be equal within ±6.5 mm [±1/4 in]

All mounting points must be located on a common centerline within ±1.5 mm [±1/16 in]

All mounting points must be in the same horizontal plane within ±2.4 mm [±3/32 in]

| 09/16

# **XT RADIOGRAPHIC SUSPENSION, INBOARD MOUNTING**



# **TEMPERATURE AND HUMIDITY SPECIFICATIONS**

### **IN-USE CONDITIONS**

	EXAM ROOM		CONTROL ROOM	
Temperature	Min         Max           15°C [59°F]         35°C [95°F]		Min	Max
			15°C [59°F]	35°C [95°F]
Temperature gradient	< 10°C/h [< 50°F/h]		< 10°C/h [< 50°F/h]	
Relative humidity (1)	30% to 60%		30% to 60%	
Humidity gradient	< 30%/h		< 30%/h	

#### **STORAGE CONDITIONS**

Temperature	-5°C [23°F] to +50°C [122°F]
Temperature gradient	< 20°C/h [< 68°F/h]
Relative humidity (1)	10% to 85%
Humidity gradient	< 30%/h

Storage longer than 90 days is not recommended.

(1) Non-condensing

#### **AIR RENEWAL**

According to local standards.

NOTE

In case of using air conditioning systems that have a risk of water leakage it is recommended not to install it above electric equipment or to take measures to protect the equipment from dropping water.

# **HEAT DISSIPATION DETAILS**

ROOM	DESCRIPTION		SIPATION W)	HEAT DISSIPATION (BTU/hr)	
		STANDBY	IN-USE	STANDBY	IN-USE
	Table (Standard/G2)	0.092	0.666	315	2272
	Table Detector power	0.017	0.017	56	56
	Wall Stand (Standard/Extended/Manual)	0.023	0.094	79	321
	WS Detector power	0.017	0.017	56	56
Exam Room	System Cabinet	0.714	1.427	2437	4869
	OTS & Collimator	0.031	0.031	106	106
	Tube Rotor	0	0.160	0	544
	ТІВ	0.002	0.020	6.75	68
	TOTAL	0.896	2.432	3055.8	8292.0
	PC and Monitor	0.176	0.253	601	863
Control Room	UPS	0.009	0.013	31.61	45.45
	TOTAL	0.185	0.266	632.6	908.5

M1 - HVAC

| 11/16

# **CONNECTIVITY REQUIREMENTS**

# **ELECTRICAL NOTES**

Broadband Connections are necessary during the installation process and going forward to ensure full support from the Engineering Teams for the customers system. Maximum performance and availability for the customers system is maintained and closely monitored during the lifetime of the system. Proactive and reactive maintenance is available utilising the wide range of digital tools using the connectivity solutions listed below:

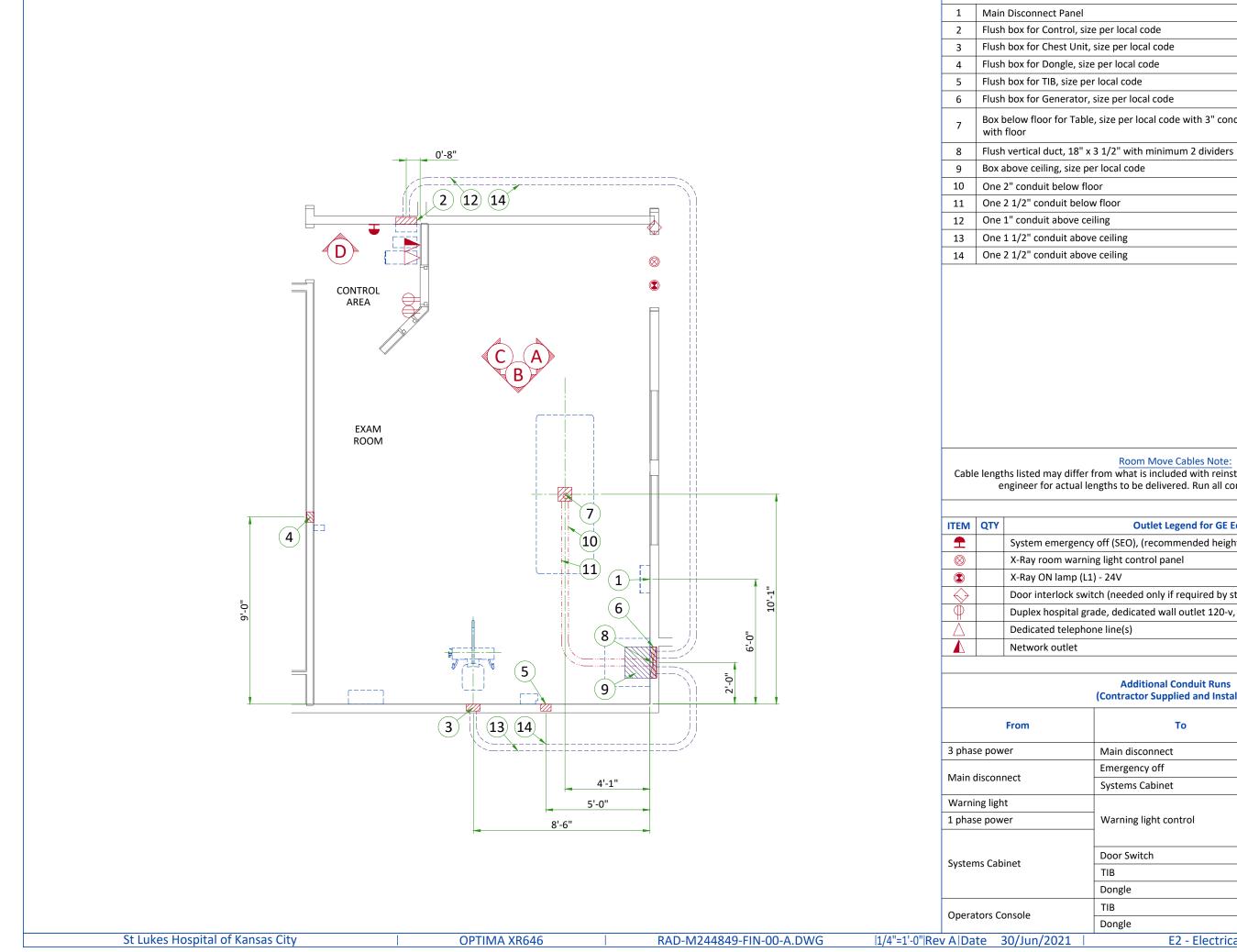
- Site-to-Site VPN/GE Solution
- Site-to-Site VPN/Customer Solution
- Connection through Dedicated Service Network
- Internet Access connectivity for InSite 2.0

The requirements for these connectivity solutions are explained in the broadband solutions catalogue (separate document).

- 1. All wires specified shall be copper stranded, flexible, thermo-plastic, color coded, cut 10 foot long at outlet boxes, duct termination points or stubbed conduit ends. All conductors, power, signal and ground, must be run in a conduit or duct system. Electrical contractor shall ring out and tag all wires at both ends. Wire runs must be continuous copper stranded and free from splices.
- 1.1. Aluminum or solid wires are not allowed.
- 2. Wire sizes given are for use of equipment. Larger sizes may be required by local codes.
- It is recommended that all wires be color coded, as required in accordance with national and local electrical 3. codes.
- Conduit sizes shall be verified by the architect, electrical engineer or contractor, in accordance with local or 4. national codes.
- Convenience outlets are not illustrated. Their number and location are to be specified by others. Locate at 5. least one convenience outlet close to the system control, the power distribution unit and one on each wall of the procedure room. Use hospital approved outlet or equivalent.
- 6. General room illumination is not illustrated. Caution should be taken to avoid excessive heat from overhead spotlights. Damage can occur to ceiling mounting components and wiring if high wattage bulbs are used. Recommend low wattage bulbs no higher than 75 watts and use dimmer controls (except MR). Do not mount lights directly above areas where ceiling mounted accessories will be parked.
- 7. Routing of cable ductwork, conduits, etc., must run direct as possible otherwise may result in the need for greater than standard cable lengths (refer to the interconnection diagram for maximum usable lengths point to point).
- Conduit turns to have large, sweeping bends with minimum radius in accordance with national and local 8. electrical codes.
- 9. A special grounding system is required in all procedure rooms by some national and local codes. It is recommended in areas where patients might be examined or treated under present, future, or emergency conditions. Consult the governing electrical code and confer with appropriate customer administrative personnel to determine the areas requiring this type of grounding system.
- 10. The maximum point to point distances illustrated on this drawing must not be exceeded.
- 11. Physical connection of primary power to GE equipment is to be made by customers electrical contractor with the supervision of a GE representative. The GE representative would be required to identify the physical connection location, and insure proper handling of GE equipment.
- 12. GEHC conducts power audits to verify quality of power being delivered to the system. The customer's electrical contractor is required to be available to support this activity.
- All junction boxes, conduit, duct, duct dividers, switches, circuit breakers, cable tray, etc., are to be supplied and installed by customers electrical contractor.
- Conduit and duct runs shall have sweep radius bends
- Conduits and duct above ceiling or below finished floor must be installed as near to ceiling or floor as possible to reduce run length.
- Ceiling mounted junction boxes illustrated on this plan must be installed flush with finished ceiling.
- All ductwork must meet the following requirements: 1. Ductwork shall be metal with dividers and have removable, accessible covers. 2. Ductwork shall be certified/rated for electrical power purposes. 3.Ductwork shall be electrically and mechanically bonded together in an approved manner. 4.PVC as a substitute must be used in accordance with all local and national codes.
- All openings in raceway and access flooring are to be cut out and finished off with grommet material by the customers contractor.
- General contractor to insert pull cords for all cable run conduits between the equipment room and the operators control room.
- 10 foot pigtails at all junction points.
- Grounding is critical to equipment function and patient safety. Site must conform to wiring specifications shown on this plan.

E1 - Electrical Notes

| 12/16|



#### ELECTRICAL LAYOUT ITEM LIST

Box below floor for Table, size per local code with 3" conduit stubbed up thru and cut flush

#### Room Move Cables Note:

Cable lengths listed may differ from what is included with reinstalled system. Contact the local field engineer for actual lengths to be delivered. Run all conduits straight as possible.

#### **Outlet Legend for GE Equipment**

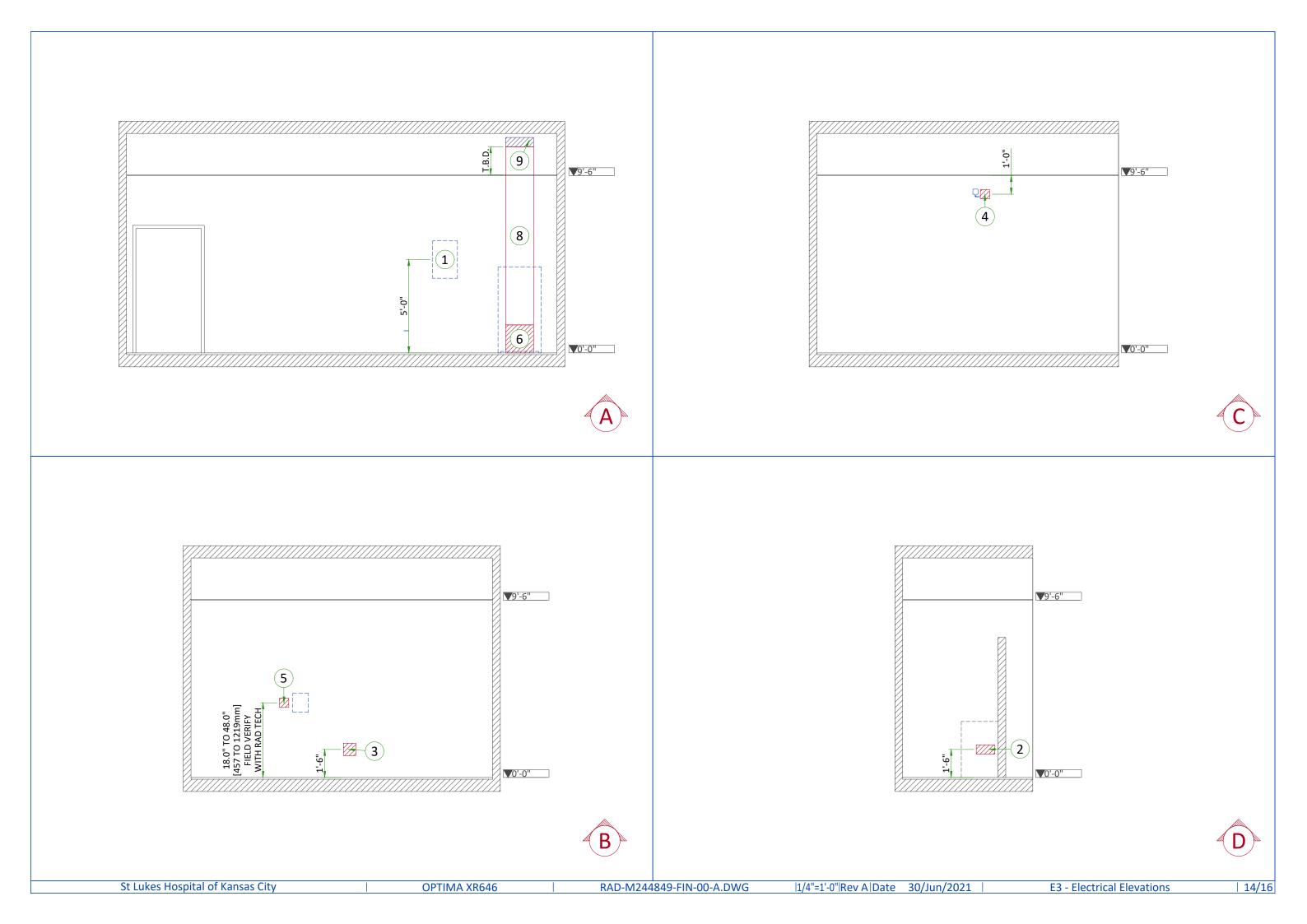
System emergency off (SEO), (recommended height 1.2m [48"] above floor)

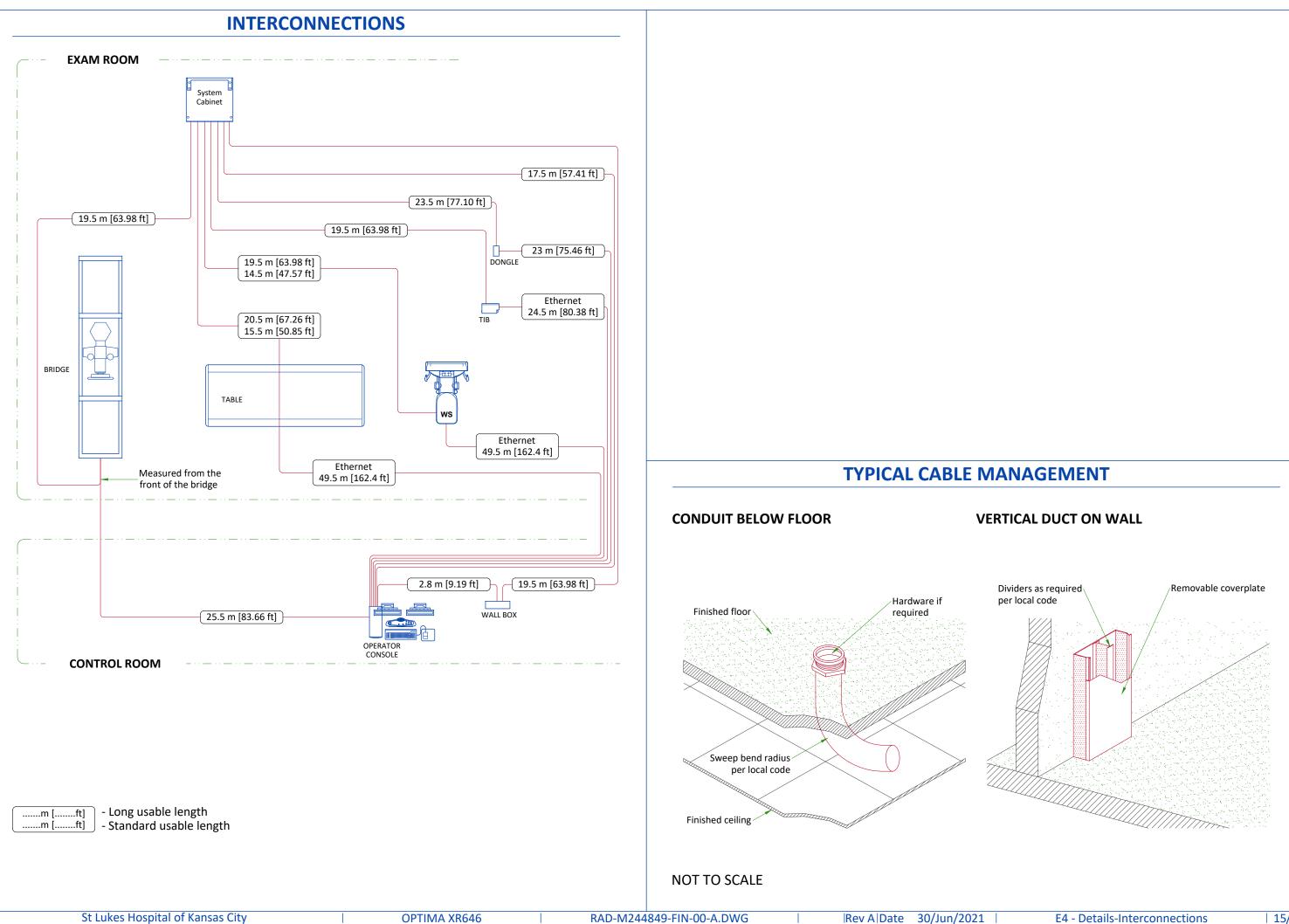
Door interlock switch (needed only if required by state/local codes)

Duplex hospital grade, dedicated wall outlet 120-v, single phase power

#### **Additional Conduit Runs** (Contractor Supplied and Installed)

То		Size			
10	Qty	In.	mm		
Main disconnect	1	AS REQ'D	AS REQ'D		
Emergency off	1	1/2	16		
Systems Cabinet	1	AS REQ'D	AS REQ'D		
	1	1/2	16		
Warning light control	1	AS REQ'D	AS REQ'D		
	1	1/2	16		
Door Switch	1	1/2	16		
ТІВ	1	2	53		
Dongle	1	1	27		
ТІВ	1	1	27		
Dongle	1	2	53		
E2 - Electrical Layout   13					





| 15/16

# POWER REQUIREMENTS

POWER SUPPLY	380/400/415/440/460/480V ±10%, THREE-PHASE + G
FREQUENCIES	50/60Hz ± 3Hz
POWER DEMAND	97kVA
MAXIMUM LINE RESISTANCE PER 2 PHASES (Ohm)	380V : 0.118 / 400V : 0.131 / 415V : 0.138 440V : 0.154 / 480V : 0.185

- Power supply should come into a main disconnect panel (MDP) containing the protective units and controls.
- The section of the supply cable should be calculated in accordance with its length and the maximum permissible voltage drops.
- There must be discrimination between supply cable protective material at the beginning of the installation (main low-voltage transformer side) and the protective devices in the MDP.

#### SUPPLY CHARACTERISTICS

- Power input must be separated from any others which may generate transients (elevators, air conditioning, radiology rooms equipped with high speed film changers...)
- All equipment (lighting, power outlets, etc...) installed with GE system components must be powered separately.

#### **GROUND SYSTEM**

Equipotential : the equipotential link will be by means of an equipotential bar. This equipotential bar should • be connected to the protective earth conductors in the ducts of the non GE cableways and to additional equipotential connections linking up all the conducting units in the rooms where GE units are located.

#### CABLES

- Power and cable installation must comply with the distribution diagram below.
- All cables must be isolated and flexible.
- Cable color codes must comply with standards for electrical installation.

Case MDP furnished by GE : The cables for signals and remote control (SEO, XRL1...) will go to MDP with a pigtail length of 1.5 m (4.9 ft), and will be connected during installation. Each conductor will be identified and isolated (screw connector).

#### **CABLEWAYS**

The general rules for laying cableways should meet the conditions laid down in current standards and regulations, with regard to:

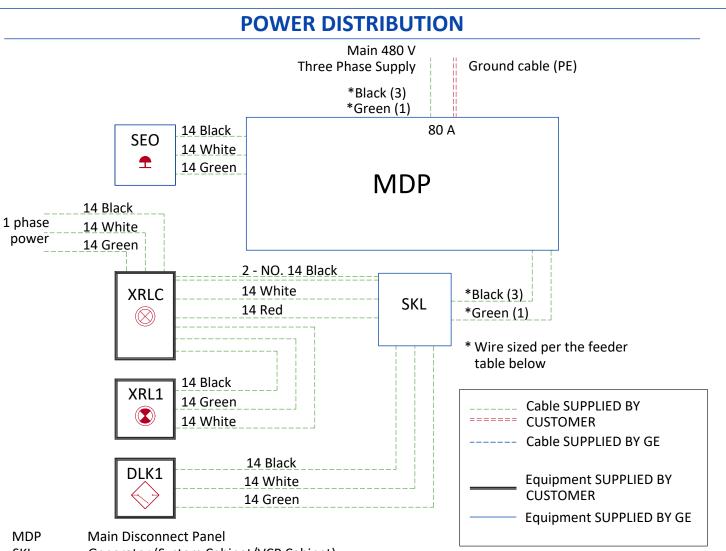
- Protecting cables against water (cableways should be waterproof) •
- Protecting cables against abnormal temperatures (proximity to heating pipes or ducts)
- Protecting cables against temperature shocks •

St Lukes Hospital of Kansas City

Replacing cables (cableways should be large enough for cables to be replaced) metal cableways should be . grounded.

		FEE	DER TAB	LE					
MIN. FEEDER WIRE SIZE, AWG OR MCM MINIMUM FEEDER WIRE LENGTH - ft (m)									
(sq. mm)/VAC	50 (15)	100 (30)	150 (46)	200 (61)	250 (76)	300 (91)	350 (107)	400 (122)	450 (137)
480 VAC	4 (21)	4 (21)	4 (21)	2 (34	1 (45)	1/0 (54)	1/0 (54)	2/0 (68)	3/0 (85)
			NERAL NOTE	-					
In all cases qualified personnel must verif	y that the fe	•	e point of tal ted in the PII		the run to	the GE sys	tem meet a	ill the requ	irements
For a single unit installation,	he minimu	m transform	ner size is 11	2.5 kVA, Sy	ynthesized	power feed	d is not acco	eptable	
Grounding conductor will be of the san			his ground v avel in the sa		•	•	to the po	wer source	/main

**OPTIMA XR646** 



Main Disconnect Panel
Generator (System Cabinet/VCP Cabinet)
Emergency OFF button (Control Room), located 1
Warning Light Control

XRL1 Warning Light

RAD-M244849-FIN-00-A.DWG

DLK1 Door Interlock Switch (needed only if required by state/local codes)

1.50m (4.9') above floor

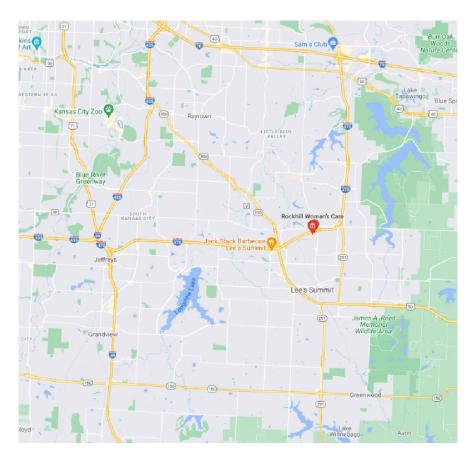
# S LUKES ROCKHILL

# SAMSUNG GC 85

120 NE SAINT LUKE'S BLVD SUITE 200, LEE'S SUMMIT, MO 64086



$\sim DRA$	WING INDEX ~
AQ	EQUIPMENT LAYOUT
AN	NOTES
E1	ELECTRICAL LAYOUT GC85
E1.1	ELECTRICAL DETAILS
E1.3	MAIN PANEL DETAILS (OPTIONAL)
S1	OVERHEAD STRUCTURAL
	LAYOUT
S2	STRUCTURAL NOTES GENERAL
	CONNECTION DETAILS
S3	STRUCTURAL NOTES
Q1	EQUIPMENT DETAILS GC85
QE1	EQUIPMENT CABLE LENGTH GC85
PROJECT MANAGER:	
	8121 N.W. 97TH TERR
	KANSAS CITY, MISSOURI 64153
	04103
OFFICE PHONE	816.741.5558
CELL PHONE	816.223.6378
E-MAIL	GNOWACZYK@RADSOURCE.NET



# **INSTALL LOCATION MAP**

## - SITE PROGRESS CHECKLIST -

- □ REVIEW EQUIPMENT ORDER FOR EXACT ITEMS PURCHASED. OPTIO FUTURE ITEMS NOT ON ORDER MAY BE INDICATED ON THESE PLANS
- □ ALL ROOM DIMENSIONS ARE CRITICAL! IMMEDIATELY CONTACT GEN AT RADSOURCE IF CHANGES OCCUR OR DIMENSIONS ARE NOT COF
- □ CONTACT A RADIATION PHYSICIST OR CONSULTANT TO SPECIFY **REQUIREMENTS FOR RADIATION CONTAINMENT.**
- □ PROVIDE A LOCKABLE EQUIPMENT HOLDING AREA CLOSE TO THE INSTALLATION FOR STORING TOOLS AND TEST EQUIPMENT.
- □ MAKE ARRANGEMENTS FOR ANY RIGGING, SPECIAL HANDLING, OR MODIFICATIONS THAT MUST BE MADE IN ORDER FOR THE EQUIPMENT DELIVERED TO THE INSTALLATION SITE. IF DESIRED, YOUR LOCAL R. TEAM REPRESENTATIVE CAN SUPPLY A REFERENCE LIST OF RIGGEF
- □ MAKE SURE A DUST FREE, TEMPERATURE AND HUMIDITY CONTROLLED ENVIRONMENT IS AVAILABLE FOR STORING THE EQUIPMENT IF YOUR SITE IS NOT READY FOR INSTALLATION AT THE TIME OF DELIVERY. ONCE THE SITE IS PREPARED, YOU ARE THEN RESPONSIBLE FOR DELIVERING THE EQUIPMENT TO THE SITE.

DNAL/- S.	
NE NOWACZYK RRECT.	
FACILITY	
NT TO BE	
RADSOURCE	
RS.	

WITHIN THE NOTES, DETAILS AND SPECIFICATION CONTAINED IN THIS SET OF DOCUMENTS, THE SINGLE TERM "RADSOURCE" IS USED FOR INDICATING "RADSOURCE IMAGING TECHNOLOGIES INC.

## **CUSTOMER**

ALL REQUIREMENTS FOR THIS EQUIPMENT ARE NOT NOTED ON THIS SHEET. IT IS SUGGESTED THAT THESE DRAWINGS BE REVIEWED BY QUALIFIED **PROFESSIONALS WHO CAN ASSIST** WITH MAKING DECISIONS REGARDING RADIATION CONTAINMENT, MAGNETIC FIELD CONTAINMENT, ELECTRICAL, STRUCTURAL AND MECHANICAL **REQUIREMENTS. ALTHOUGH THE** EQUIPMENT MAY BE INSTALLED IN AN EXISTING ROOM OF SIMILAR FUNCTION, REQUIREMENTS STILL NEED TO BE CHECKED.

### SITE VISIT

NORMAL PROCEDURE IS TO ATTEND AN INITIAL CONSTRUCTION MEETING AND THEN PERFORM AN INSPECTION OF THE ELECTRICAL BUILD OUT AT OR ABOUT THE SAME TIME AS THE ELECTRICAL ROUGH IN (PRIOR TO SHEETROCK OR LEAD BEING INSTALLED), ADDITIONAL VISITS MAY BE REQUIRED

## **RECEIPT OF DRAWING** FINAL/REVIEW

THIS SIGNATURE PRINTED OR OTHERWISE REPRESENTS RECEIPT OF THIS SET OF PLANS, IT IS UNDERSTOOD THAT ANY DEVIATION FROM THESE DRAWINGS, DETAILS AND SPECIFICATIONS MAY ENCROACH UPON THE EQUIPMENT **OPERATION, SERVICEABILITY, OR SAFETY** GUIDELINES. ALSO I AM AWARE THAT ANY CHANGES MADE AFTER 7 June 2021 COULD RESULT IN ADDITIONAL EXPENSES BEING INCURRED IF RADSOURCE IS NOT NOTIFIED IN WRITING i.e. E-MAIL ETC... NEW SHEETS WILL BE ISSUED AS ADDITIONS AND REVISIONS WILL HAVE CURRENT DATES ADDED. DATE: NAME:

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DATE: NAME:

PRINTED COMPANY

LAST PLOT DATE: 7 June 2021

LAST REVIEW: 6/7/2021 1:23:34 PM



GENE NOWACZYK MFP SITE PLANNING & PROJECT DEVELOPMENT

OFFICE: 816-741-5558 CELL: 816-223-6378 FAX: 816-587-2423 EMAIL: GNOWACZYK@RADSOURCE.NET 8121 N.W. 97TH TERR KANSAS CITY, MISSOURI 64153

# PROJECT

# SAMSUNG GC 85

S LUKES ROCKHILL

120 NE SAINT LUKE'S BLVD SUITE 200, LEE'S SUMMIT, MO 64086

**ARCHITECT: BRIAN DOSTAL** p.816.728.1999 BDOSTAL@ACIBOLAND.COM

ELECTRICAL CONTRACTOR:

m.XXX-XXX-XXXX

GENERAL CONTRACTOR:

p.---m.----

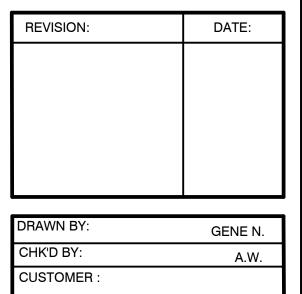
PROJECT MANAGER FOR CUSTOMER:

p.----

IT MANAGER XXX p. XXX

XXX

RADIOLOGY DIRECTOR



SCALE: NOTED

<sup>DATE:</sup> 5/19/2021 9:22:12 AM

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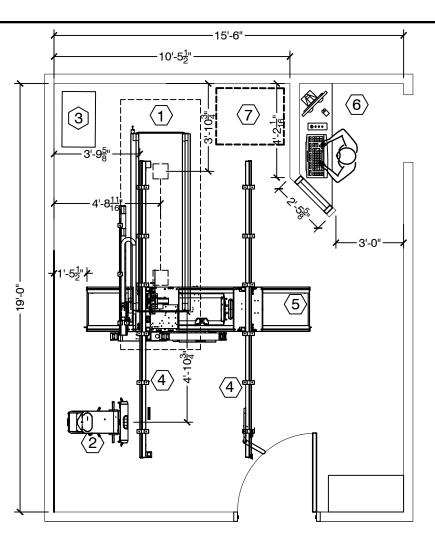
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#### NOTE: THIS SAMSUNG ROOM CONFIGURATION UTILIZES 3 METER TRANSVERSE BRIDGE AND 4 METER LONGITUDE RAILS

COUNTER TOP IN OPERATORS AREA SHOULD BE 40°-42° A.F.F. COUNTER TOP HEIGHT NEEDS APPROVAL BY S LUKES ROCKHILL

CONTROL WALL DOES NOT GO ALL THE WAY TO CEILING

THIS SYSTEM REQUIRES 480 VAC 3 PHASE POWER AND RECONFIGURING OF THE ABOVE CEILING SUPER STRUCTURE



#### NOTE:

ARCHITECT / CONTRACTOR IS TO VERIFY ALL DIMENSIONS ON THIS DRAWING AGAINST AS-BUILT. DIMENSIONS ILLUSTRATED WITHIN HAVE BEEN USED FOR PROPER EQUIPMENT PLACEMENT AND MAY BE USED IN THE FUTURE FOR RADIATION SHIELDING PROTECTION BY THE CUSTOMERS SELECTED PHYSICIST.

EACH RESPECTIVE ROOM WILL HAVE AN ENLARGED VIEW ILLUSTRATING THE PLACEMENT OF THE RADIOLOGY EQUIPMENT FOR THE ASSOCIATED ROOM IDENTIFICATION AS SHOWN ON SHEETS LABELED WITH THE LETTER "AQ-?".

#### SUPPLEMENTAL NOTES:

ALL ITEMS LISTED BELOW ARE TO BE PROVIDED / DESIGNED BY THE ARCHITECT ACI. THE ARCHITECT ACI SHALL CONSULT WITH S LUKES ROCKHILL FOR ANY ADDITIONAL INFORMATION.

- ALL DIAGNOSTIC ROOMS INCLUDING X-RAY, MAMMO, R/F, CT, ETC., SHALL HAVE " LED" CAN LIGHTING AND/OR FLORESCENT LIGHT FIXTURES. THE LED FIXTURES ARE TO BE DISTRIBUTED AROUND THE ROOM AND SHOULD BE PROVIDED WITH DIMMER CONTROLS. THE DIMMER CONTROLS SHOULD BE LOCATED NEAR THE ENTRANCES AND IN THE CONTROL AREAS.
- IT IS RECOMMENDED THAT ALL DIAGNOSTIC ROOMS SHOULD HAVE TILE OR VINYL FLOORING.
- A TILE DROP CEILING IS RECOMMENDED FOR ANY DIAGNOSTIC ROOMS. MINIMUM CEILING HEIGHT 9'-4"
- ALL CABINETRY WORK IS TO BE DESIGNED BY THE ARCHITECT AND PROVIDED BY S LUKES ROCKHILL AND OR ----- RECOMMEND ALL COUNTERS SHALL HAVE ROUNDED CORNERS.
- PROVIDE FOR REFUSE REMOVAL AND DISPOSAL (E.G. CRATES, CARTONS, PACKING)
- PROVIDE A WORKING RESTROOM WITH SUPPLIES
   WITHIN THE FACILITY

### ImagingTechnologies GENE NOWACZYK SITE PLANNING & OJECT DEVELOPMENT DEFICE: 816-741-5558 CELL: 816-223-6378 AX: 816-587-2423 EMAIL: GNOWACZYK@RADSOURCE.NET 8121 N.W. 97TH TERR KANSAS CITY, MISSOURI 64153 PROJECT SAMSUNG GC 85 S LUKES ROCKHILL 120 NE SAINT LUKE'S BLVD SUITE 200, LEE'S SUMMIT, MO 64086 ABCHITECT BRIAN DOSTAL 0.816.728.1999 BDOSTAL@ACIBOLAND.COM ELECTRICAL CONTRACTOR: n.XXX-XXX-XXXX GENERAL CONTRACTOR: PROJECT MANAGER FOR CUSTOMER: XXX . XXX xx RADIOLOGY DIRECTOR

Kansource

REVISION:	DATE:
DRAWN BY:	GENE N.
CHK'D BY: CUSTOMER :	A.W.
SCALE:	NOTED
<sup>DATE:</sup> 6/7/2021 1::	23:34 PM
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ROOM LAYOUT - X-RAY
---------------------

SCALE: 1/2" = 1'-0" MINIMUM CEILING HEIGHT: 9'-4" MAXIMUM CEILING HEIGHT: 9'-6"

C	1'	2'	3'	4'	5'	6'	7'	8'	9'	10'	
ш											
5	_		1	m		2	2m			3m	

#### EQUIPMENT LEGEND SAMSUNG XGEO-GC85

OWNER: S LUKES ROCKHILL						
ITEM	QUANTITY	DESCRIPTION	WEIGHT	HEAT OUTPUT	PROVIDED BY	INSTALLED BY
1	1	PATIENT TABLE	440LBS	2,046 BTU	OWNER	RADSOURCE
2	1	WALL / CHEST STAND	330 LBS	511 BTU	OWNER	RADSOURCE
3	1	GENERATOR CABINET	220 LBS	5,968 BTU	OWNER	RADSOURCE
4	1	CEILING RAIL	140 LBS	N/A	OWNER	RADSOURCE
5	1	CEILING MOUNTED TUBE HEAD	616 LBS	1,909 BTU	OWNER	RADSOURCE
6	1	WORK STATION	35 LBS	1,364 BTU	OWNER	RADSOURCE
7	1	STITCHING STAND	235 LBS	N/A BTU	OWNER	RADSOURCE

#### NOTE:

SPECIAL DELIVERY TO BUILDING NOT COVERED BY RADSOURCE IMAGING TECHNOLOGIES INC, TO BE COORDINATED BETWEEN "S LUKES ROCKHILL AND/OR ----\* AND RADSOURCE IMAGING TECHNOLOGIES INC. ENVIRONMENT

AMBIENT OPERATION TEMPERATURE: 55-75° (F) ALLOWABLE TEMPERATURE CHANGE: 15° (F) PER HOUR HUMIDITY: 20-80 PERCENT NON CONDENSING ALLOWABLE HUMIDITY CHANGE: 10 PERCENT PER HOUR

#### MINIMUM SITE PREPARATION REQUIREMENTS

WALLS TO BE PAINTED OR COVERED, BASEBOARDS INSTALLED, FLOORS TO BE TILED AND/OR COVERED. CEILING SHALL HAVE GRID TILES AND LIGHTING FIXTURES INSTALLED.

DOORS AND WINDOWS. ESPECIALLY RADIATION PROTECTION BARRIERS. INSTALLED AND FINISHED WITH LOCK SETS OPERATIONAL.

ALL ELECTRICAL CONVENIENCE, CONDUIT, RACEWAY AND JUNCTION BOXES INSTALLED.

INCOMING MAINS POWER OPERATIONAL AND CONNECTED TO X-RAY ROOM BREAKER.

115 VOLTS CONVENIENCE OUTLETS OPERATIONAL.

ALL SUPPORT STRUCTURES CORRECTLY INSTALLED.

ALL CHANNELS, PIPES, BEAM'S AND OR OTHER SUPPORTING DEVICES SHOULD BE LEVEL, PARALLEL AND FREE OF LATERAL OR LONGITUDINAL MOVEMENTS.

ALL CONTRACTOR SUPPLIED CABLES PULLED AND TERMINATED.

A DUST FREE ENVIRONMENT IN AND AROUND THE PROCEDURE ROOM.

ALL HEATING AND VENTILATION / AIR-CONDITIONING INSTALLED AND OPERATIONAL.

A CLEAR DOOR OPENING FOR MOVING EQUIPMENT INTO THE BUILDING MUST BE 42 IN, X 82 IN, OR LARGER CONTINGENT ON AN 8' CORRIDOR WIDTH.

## NOTICE:

THIS DRAWING SET IS THE SOLE PROPERTY OF RADSOURCE IMAGING TECHNOLOGIES. INC.

ITS USE IS AUTHORIZED ONLY FOR THE CUSTOMER S LUKES ROCKHILL/CONTRACTOR ---- TO DESIGN AND INCORPORATE OUR CONCEPT INTO CONSTRUCTION AND PREPARATION FOR IMAGING EQUIPMENT INSTALLATION. THESE DRAWINGS SHALL NOT BE USED FOR ANY PURPOSE OTHER THAN THE AGREED UPON DESIGN BETWEEN RADSOURCE IMAGING AND THEIR CUSTOMER.

THE CUSTOMER S LUKES ROCKHILL IS RESPONSIBLE FOR ALL ROOM PREPARATION COSTS, FEES, PERMITS AND INSPECTIONS UNLESS OTHERWISE SPECIFIED IN THE GENERAL ORDER FOR THE EQUIPMENT PURCHASE.

PHYSICIST.

RADIATION SHIELDING IS NOT SHOWN ON THESE PLANS. HOWEVER, THE CUSTOMER S LUKES ROCKHILL SHALL, AT THEIR OWN EXPENSE, HAVE SHIELDING CALCULATIONS FOR THE ROOM PREPARED BY A LICENSED RADIATION

# PREFACE

THESE DRAWINGS HAVE BEEN PREPARED BY RADSOURCE IMAGING TECHNOLOGIES, INC., THEIR PURPOSE IS TO PROVIDE THE SITING, ELECTRICAL, MECHANICAL AND ENVIRONMENTAL SPECIFICATIONS REQUIRED TO ACCOMMODATE THE INSTALLATION AND OPERATION OF THE DIAGNOSTIC IMAGING EQUIPMENT AND SUB-COMPONENTS ILLUSTRATED.

THE LAYOUT(S) PROVIDED FOR ALL COMPONENTS PURCHASED FROM AND/OR PROVIDED BY THE EQUIPMENT MANUFACTURER SHALL SERVE AS A GUIDE FOR INSTALLATION BY THE LOCAL SERVICE/INSTALLATION REPRESENTATIVES.

INFORMATION IN THESE DRAWINGS RELATING TO BUILDING/FACILITY SPECIFICATIONS THAT WILL SUPPORT IMAGING EQUIPMENT COMPONENTS SUCH AS ELECTRICAL, STRUCTURAL, MECHANICAL AND ENVIRONMENTAL REQUIREMENTS SHALL BE UTILIZED AS A GUIDE BY THE CUSTOMER'S ARCHITECT ACI AND/OR CONTRACTOR ----. FACILITY CONDITIONS MAY DICTATE ACTUAL CONSTRUCTION METHODS AND MATERIALS APPLIED. HOWEVER, ALL METHODS AND MATERIALS MUST COMPLY WITH EQUIPMENT MANUFACTURER SPECIFICATIONS, AS WELL AS LOCAL AND/OR NATIONAL BUILDING CODES.

THE REQUIRED CEILING HEIGHT OF 9'-4" INDICATED ON THESE PLANS IS TO INSURE EQUIPMENT FUNCTION IS NOT INHIBITED. CONSULT WITH YOUR EQUIPMENT INSTALLATION SPECIALIST REGARDING ACCEPTABILITY OF THE OTHER CEILING HEIGHTS. CHECK ALL DOOR **OPENINGS FROM DELIVERY LOCATION TO WHERE** EQUIPMENT IS TO BE INSTALLED.

THE QUALITY OF CONSTRUCTION METHODS, MATERIALS AND CONFORMANCE TO EQUIPMENT MANUFACTURER SPECIFICATIONS AND TOLERANCES, WILL AFFECT EQUIPMENT PERFORMANCE.

# MAGNETIC INTERFERENCE SPECIFICATIONS

DIGITAL FLAT PANEL MUST BE LOCATED IN AMBIENT STATIC MAGNETIC FIELDS OF LESS THAN ONE GAUSS TO GUARANTEE SPECIFIED IMAGING PERFORMANCE.

X-RAY TUBES AND EQUIPMENT MUST BE LOCATED IN AMBIENT STATIC MAGNETIC FIELDS OF LESS THAN TEN GAUSS TO GUARANTEE SPECIFIED PERFORMANCE DATA INTEGRITY

SYSTEM ELECTRONICS / EQUIPMENT MUST BE LOCATED IN AMBIENT STATIC MAGNETIC FIELDS OF LESS THAN TEN GAUSS TO GUARANTEE DATA INTEGRITY

CONSOLE EQUIPMENT MUST BE LOCATED IN AMBIENT STATIC MAGNETIC FIELDS OF LESS THAN ONE GAUSS TO OBTAIN SPECIFIED GEOMETRIC LINEARITY.

# SITE ENVIRONMENT SPECIFICATIONS

AMBIENT OPERATING TEMPERATURE: 60° TO 75° F (16° TO 24° C) MAXIMUM

ALLOWABLE TEMPERATURE CHANGE OF 5° F, (3° C) / HOUR MAXIMUM ROOM

TEMPERATURE GRADIENT 5° F, (3° C)

HUMIDITY: 30 TO 60 PERCENT NON-CONDENSING, MAXIMUM ALLOWABLE CHANGE OF 5 PERCENT / HOUR

ALTITUDE: NOT TO EXCEED 10,000 FT (3050M) ABOVE SEA LEVEL

THE ENVIRONMENT FOR THE ELECTRONICS CABINET MUST BE CONTROLLED SO THE ABOVE RESTRICTIONS ARE NOT EXCEEDED.

DO NOT RESTRICT THE AIR INTAKE OR AIR EXHAUST OF THE SYSTEM COMPONENTS.

ENVIRONMENTAL CONDITIONS LISTED ABOVE MUST BE MAINTAINED AT ALL TIMES, INCLUDING OVERNIGHT AND HOLIDAYS.



GENE NOWACZYK SITE PLANNING & PROJECT DEVELOPMENT

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# PROJECT

# SAMSUNG GC 85

S LUKES ROCKHILL

120 NE SAINT LUKE'S BLVD SUITE 200, LEE'S SUMMIT. MO 64086

**ARCHITECT: BRIAN DOSTAL** p.816.728.1999 BDOSTAL@ACIBOLAND.COM

ELECTRICAL CONTRACTOR:

m.XXX-XXX-XXXX

**GENERAL CONTRACTOR:** 

m.----

PROJECT MANAGER FOR CUSTOMER:

p.---

XXX p. XXX

XXX

RADIOLOGY DIRECTOR

REVISION: DATE:

DRAWN BY:	GENE N.
CHK'D BY:	A.W.
CUSTOMER :	

NOTED

SCALE: DATE: 6/7/2021 1:23:34 PM

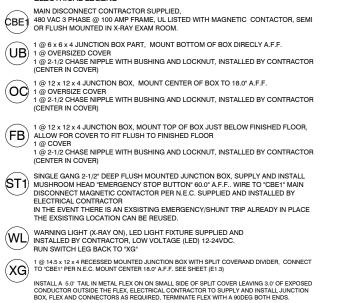
FILE NAME:

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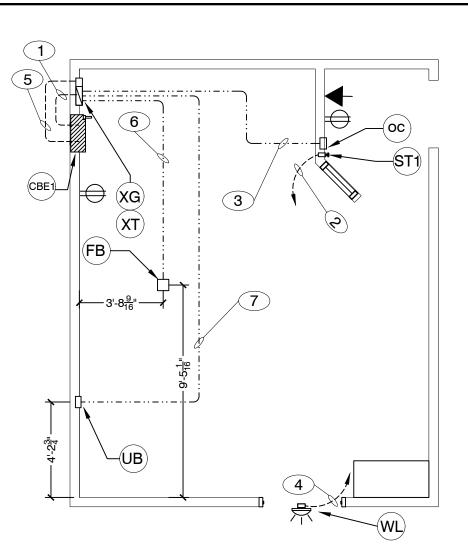
#### ELECTRICAL LEGEND



1 @ 10 x 3 x 4 RECESSED MOUNTED WALL DUCT WITH COVERS, MOUNT MOUNT ONTOP OF "XG" WITH (XT SUPPLIED CONNECTORS IN KIT. SEE SHEET (E1.3)

1 @ 10 x 10 x 10 JUNCTION BOX, SURFACE MOUNT AT FINISHED CEILING TO WALL DUCT (THIS WILL (AC) BE USED AS A PASS THROUGH, SEE SHEET (E1.3)

REQUIRED CONDUIT RUNS FOR BASE SYSTEM BY CONTRACTOR					
1	CBE1	то	XG	CONDUIT ABOVE CEILING PER N.E.C., PULL 3 @ #3AWG; PULSE 1 @ #3 AWG GROUND. CONNECT WIRE TO BREAKER AND LEAVE 6' TAILS AT "XG". LABEL "FOR X-RAY POWER"	
2	CBE1	то	ST1	CONDUIT AS REQUIRED PER N.E.C. ABOVE CEILING, PULL 2 @ # CONNECT TO SHUNT TRIP EMERGENCY STOP DEVICE	
3	XG	то	ос	2.0" CONDUIT, BELOW GRADE	
4	CBE1	то	WL	NO CONDUIT REQUIRED WITH KIT, WITH OUT KIT USE 3/4" CND	
5	CBE1	то	XG	1/2" CNDUIT ABOVE CEILING, PULL 18-2 AWG THEROMOSTATE WIRE, LEAVE 3.0' AT CBE1 AND 12.0' AT XG, LABLE BOTH ENDS "FOR WARNING LIGHT"	
6	XG	то	FB	2.5" CONDUIT, BELOW GRADE	
7)	FB	то	UB	2.0° CONDUIT, BELOW GRADE	
8	INCOMING MAINS	то	CBE1	CONDUIT AS REQUIRED	
9	UB	o	ос	1.5" CND, ABOVE CEILING OR BELOW GRADE	



SCALE: 3/8" = 1'-0" MINIMUM CEILING HEIGHT: 9'-4'

ELECTRICAL LAYOUT DRGEM PREMIUM

SYMBOLS LEGEND

- <del>O</del> GROUND FAULT INTERRUPT RECEPTACLE
- € 110/115VAC 20 AMP
- PHONE / DATA

- PHONE
- DATA
- WALL MOUNTED PHONE 48"A.F.F.
- ABOVE CEILING CONDUIT BELOW GRAD CONDUIT

3 x 10 HORIZONTAL WALL DUCT

3 x 10 FLUSH TO FINISHED FLOOR DUCT

 $\sim$ 3 x 10 VERTICAL WALL DUCT

CEILING MOUNTED JUNCTION BOX

#### RadSource **Imaging**Technologies GENE NOWACZYK ITE PLANNING & BOJECT DEVELOPMENT DEFICE: 816-741-5558 CELL: 816-223-6378 AX: 816-587-2423 EMAIL: GNOWACZYK@RADSOURCE.NET 8121 N.W. 97TH TERR KANSAS CITY, MISSOURI 64153 PROJECT SAMSUNG GC 85 S LUKES ROCKHILL 120 NE SAINT LUKE'S BLVD SUITE 200, LEE'S SUMMIT, MO 64086 RCHITECT: BRIAN DOSTAL .816.728.1999 BDOSTAL@ACIBOLAND.COM ELECTRICAL CONTRACTOR n.XXX-XXX-XXXX GENERAL CONTRACTOR: ROJECT MANAGER FOR CUSTOMER: xx o. XXX RADIOLOGY DIRECTOR **BEVISION** DATE RAWN B GENE N. CHK'D BY A.W. CUSTOMER SCALE: NOTED DATE: 6/7/2021 1:23:34 PM FILE NAME: Rockhill 2021 Samsung GC85.dwg DRAWING SHEET # E1-X-RAY

#### ELECTRICAL NOTES

ALL WIRES SPECIFIED SHALL BE COPPER STRANDED, FLEXIBLE, THERMO-PLASTIC, COLOR CODED, CUT 10 FOOT LONG AT OUTLET BOXES, DUCT TERMINATION POINTS OR STUBBED CONDUIT ENDS. ALL CONDUCTORS, POWER, SIGNAL AND GROUND, MUST BE RUN IN A CONDUIT OR DUCT SYSTEM. ELECTRICAL CONTRACTOR SHALL RING OUT AND TAG ALL WIRES AT BOTH ENDS. WIRE RUNS MUST BE CONTINUOUS COPPER STRANDED AND FREE FROM SPLICES. MIN 2 PULL STRINGS PER CONDUIT RUN.

WIRE SIZES GIVEN ARE FOR USE OF EQUIPMENT. LARGER SIZES MAY BE REQUIRED BY LOCAL CODES.

IT IS RECOMMENDED THAT ALL WIRES BE COLOR CODED, AS REQUIRED IN ACCORDANCE WITH NATIONAL AND LOCAL ELECTRICAL CODES.

LOCATE AT LEAST ONE CONVENIENCE OUTLET CLOSE TO THE SYSTEM CONTROL, THE POWER DISTRIBUTION UNIT AND ONE ON EACH WALL OF THE PROCEDURE ROOM. USE HOSPITAL APPROVED OUTLET OR EQUIVALENT.

GENERAL ROOM ILLUMINATION IS NOT ILLUSTRATED. CAUTION SHOULD BE TAKEN TO AVOID EXCESSIVE HEAT FROM OVERHEAD SPOTLIGHTS. DAMAGE CAN OCCUR TO CEILING MOUNTING COMPONENTS AND WIRING IF HIGH WATTAGE BULBS ARE USED. RECOMMEND LED BULBS, USE DIMMER CONTROLS (EXCEPT MR). DO NOT MOUNT LIGHTS DIRECTLY ABOVE AREAS WHERE CEILING MOUNTED ACCESSORIES WILL BE PARKED.

ROUTING OF CABLE DUCTWORK, CONDUITS, ETC., MUST RUN DIRECT AS POSSIBLE OTHERWISE MAY RESULT IN THE NEED FOR GREATER THAN STANDARD CABLE LENGTHS (REFER TO THE INTERCONNECTION DIAGRAM FOR MAXIMUM USABLE LENGTHS POINT TO POINT). SHEET QE1

CONDUIT TURNS TO HAVE LARGE, SWEEPING BENDS WITH MINIMUM RADIUS IN ACCORDANCE WITH NATIONAL AND LOCAL ELECTRICAL CODES.

PHYSICAL CONNECTION OF PRIMARY POWER TO SAMSUNG EQUIPMENT IS TO BE MADE BY CUSTOMERS ELECTRICAL CONTRACTOR ---- WITH THE SUPERVISION OF A RADSOURCE IMAGING REPRESENTATIVE. THE RADSOURCE IMAGING REPRESENTATIVE WOULD BE REQUIRED TO IDENTIFY THE PHYSICAL CONNECTION LOCATION, AND INSURE PROPER HANDLING OF SAMSUNG EQUIPMENT.

ALL ELECTRICAL CONVEINCE, NETWORKIING AND PHONE OUTLETS TO BE 18.0' A.F.F. UNLESS OTHER WISE NOTED

FEILD VERIFY EXACT LOCATIONS OF EXISTING ELECTRICAL PANELS, CONDUITS, JUNCTION BOXES ETC FOR NEW CONNECTIONS.

LENGTH OF FLEXIBLE CONDUIT SHALL NOT EXCEED 6FT

ALL CONDUITS & CONDUCTERS SHALL BE INSTALLED INSIDE WALLS OR ABOVE CEILING, NO EXPOSED CONDUIT OR CONDUCTORS WILL BE ALLOWED.

ALL WIRE RUNS WILL BE A MINIMUM OF FLEXIBLE METAL CONDUIT (FMC)



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#### PROJECT

SAMSUNG GC 85

S LUKES ROCKHILL

120 NE SAINT LUKE'S BLVD SUITE 200, LEE'S SUMMIT, MO 64086

ARCHITECT: BRIAN DOSTAL p.816.728.1999 BDOSTAL@ACIBOLAND.COM

ELECTRICAL CONTRACTOR:

D.----TI.XXX-XXX-XXXX

ENERAL CONTRACTOR:

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ROJECT MANAGER FOR CUSTOMER:

T XXX

o. XXX XXX

RADIOLOGY DIRECTOR

REVISION: DATE:

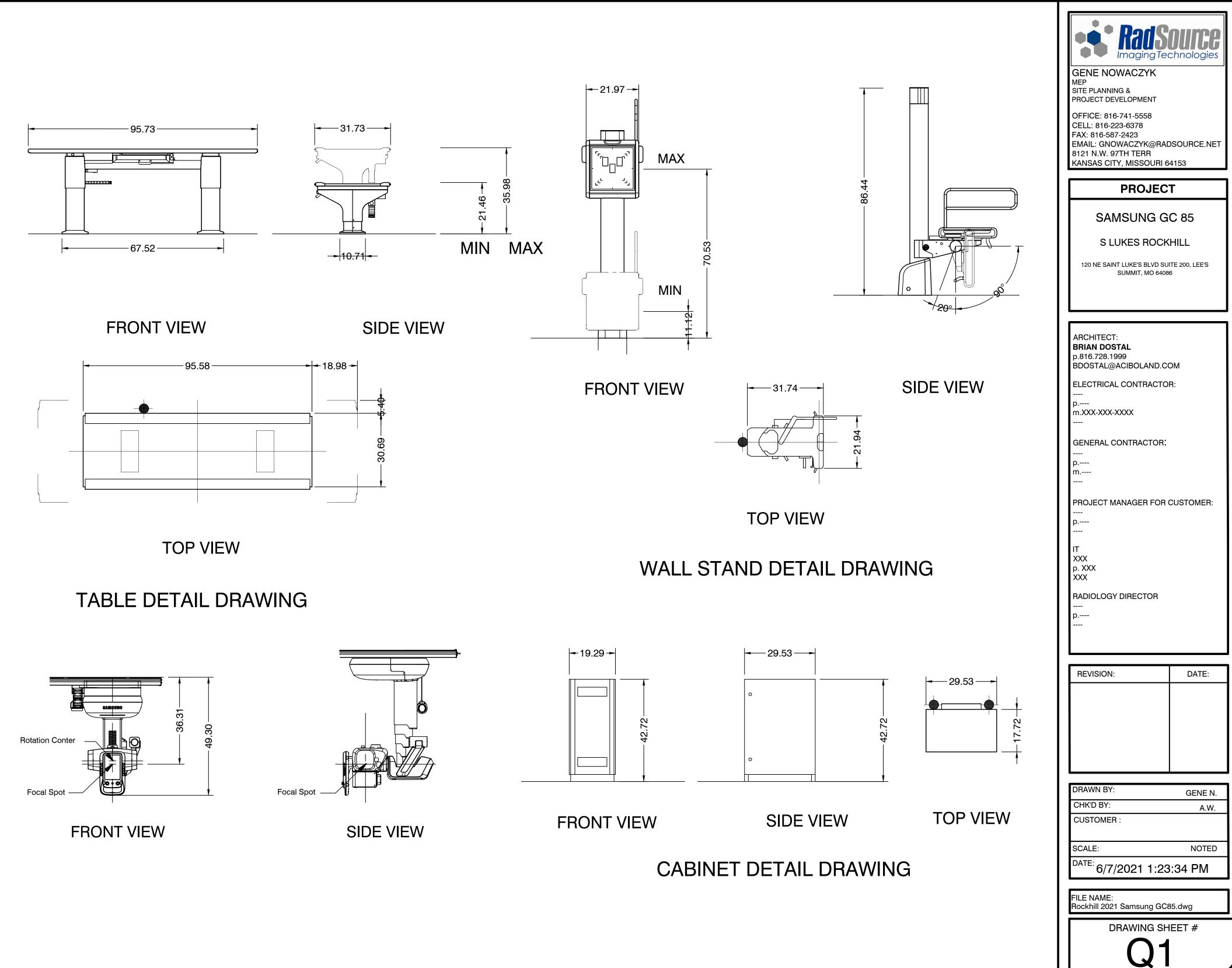
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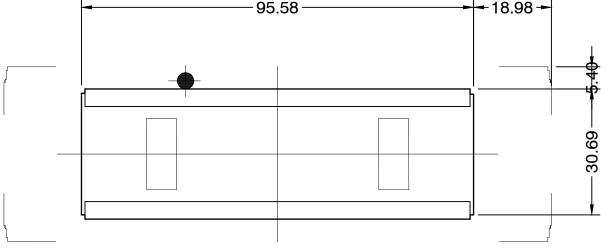
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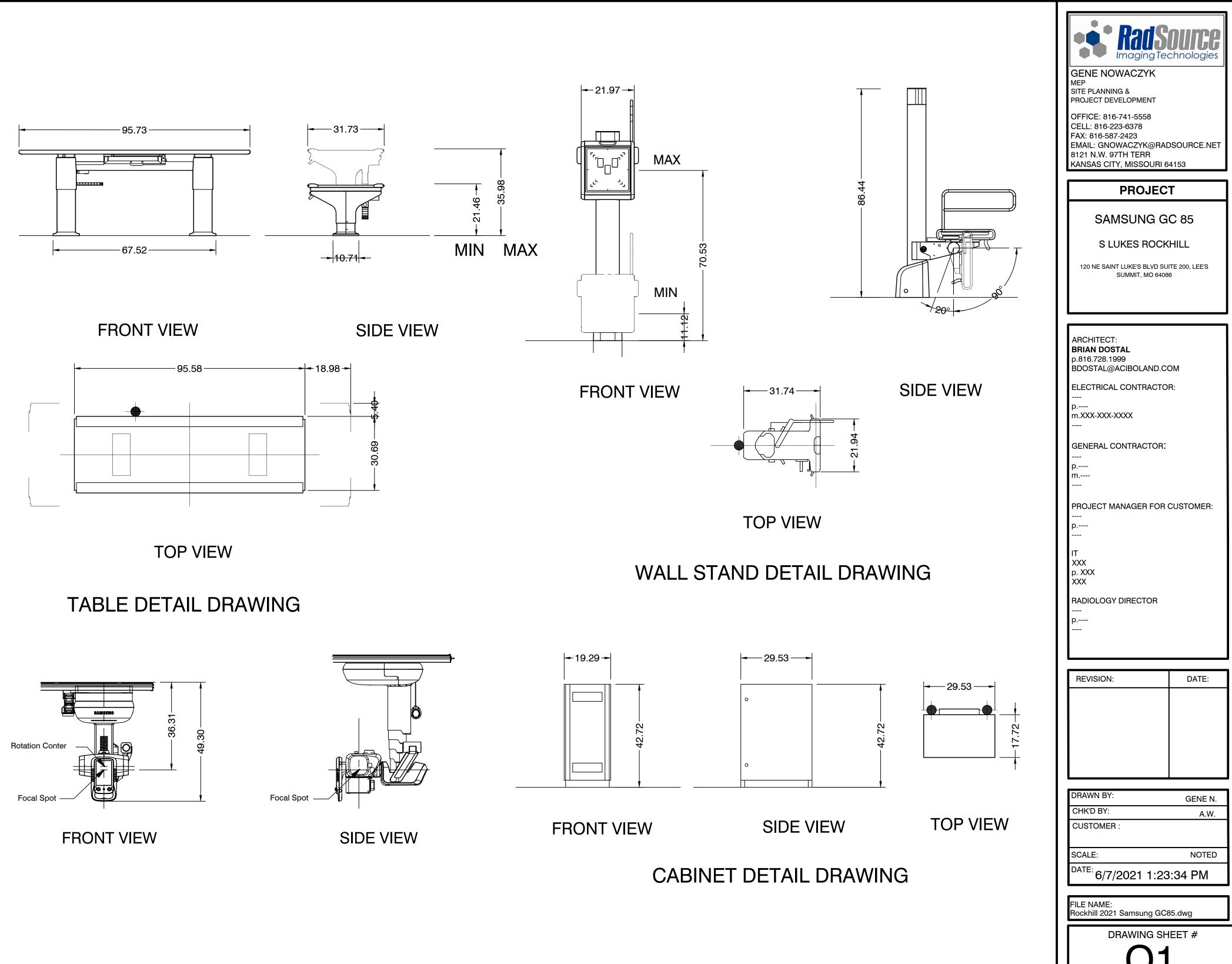
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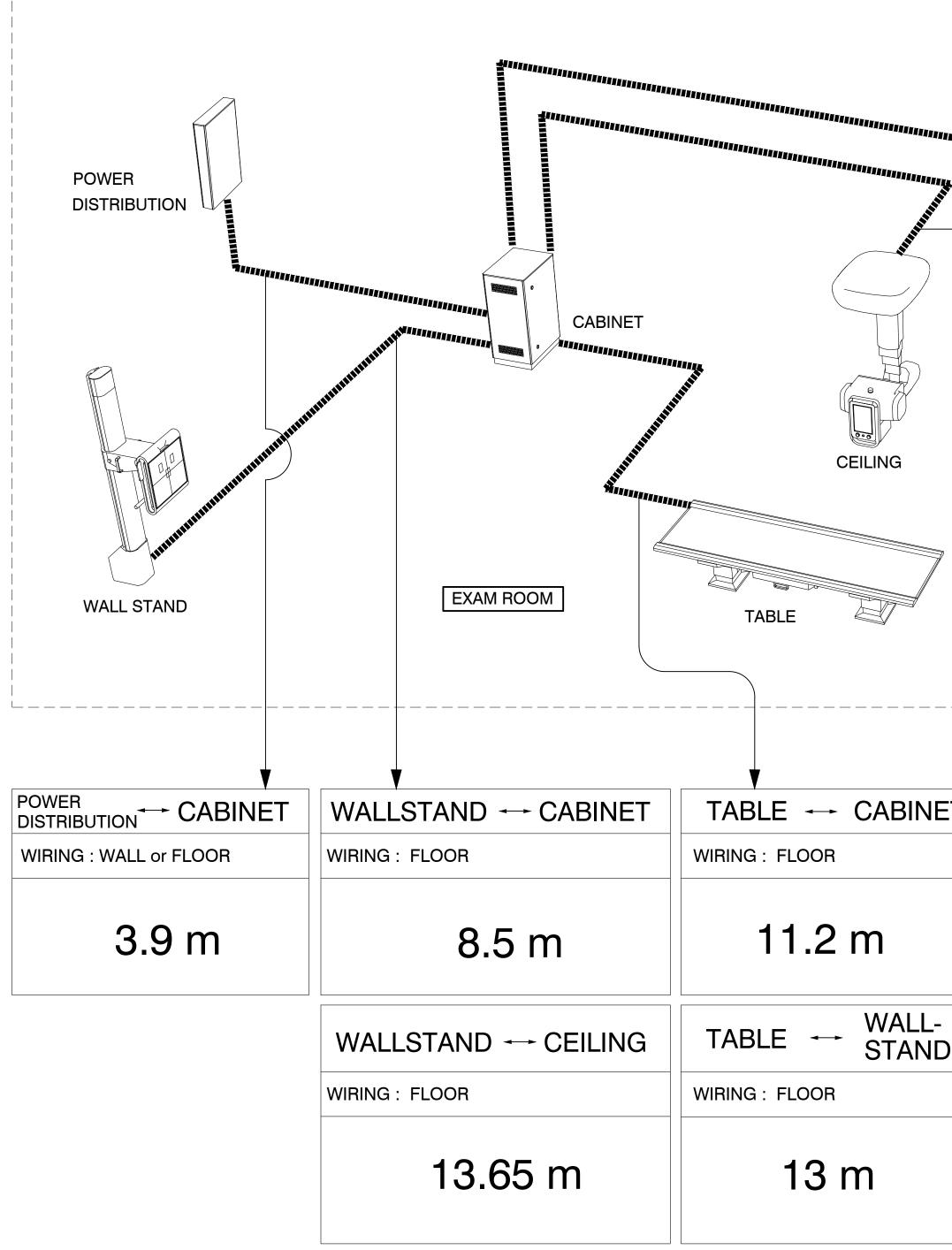




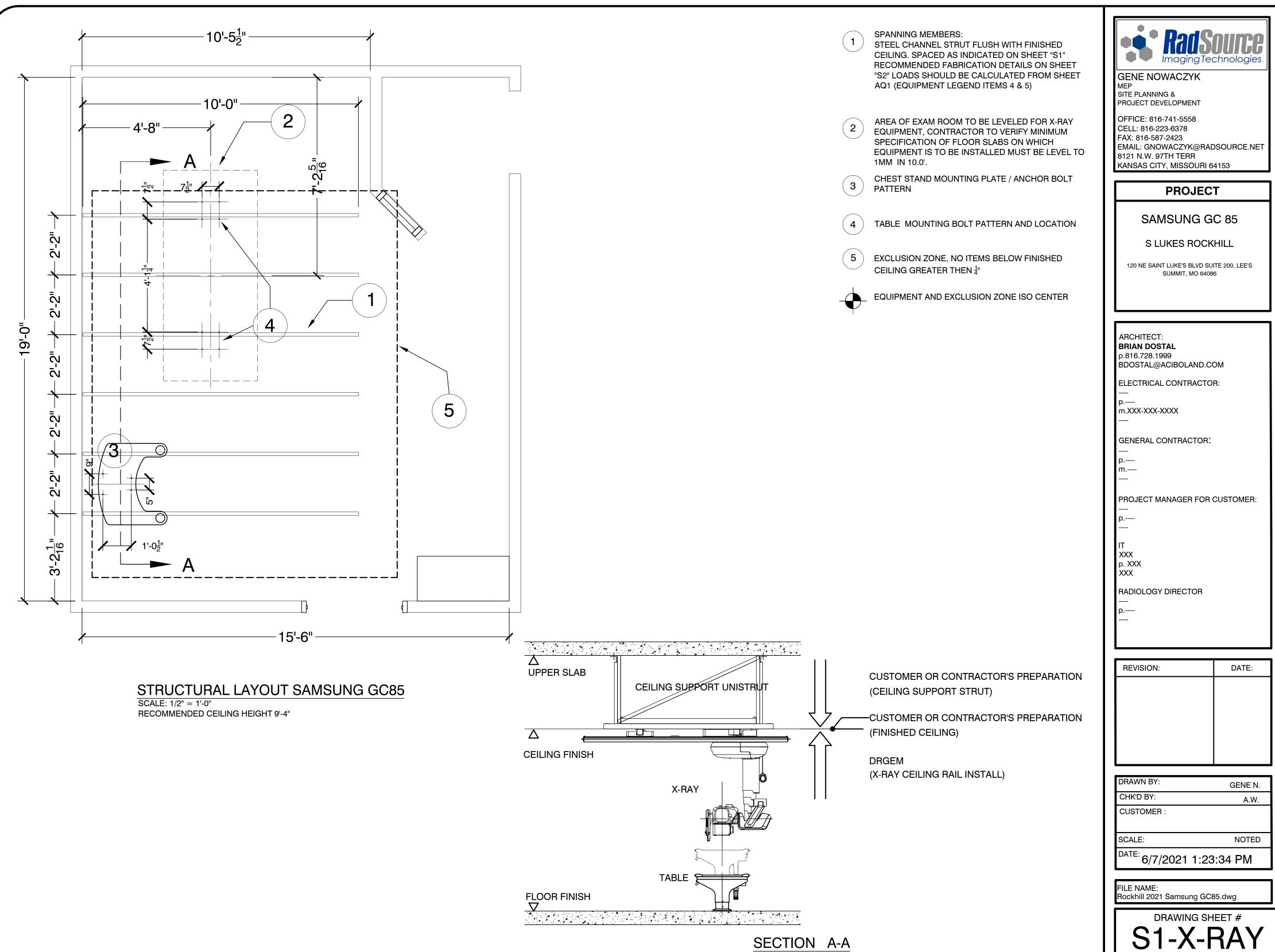


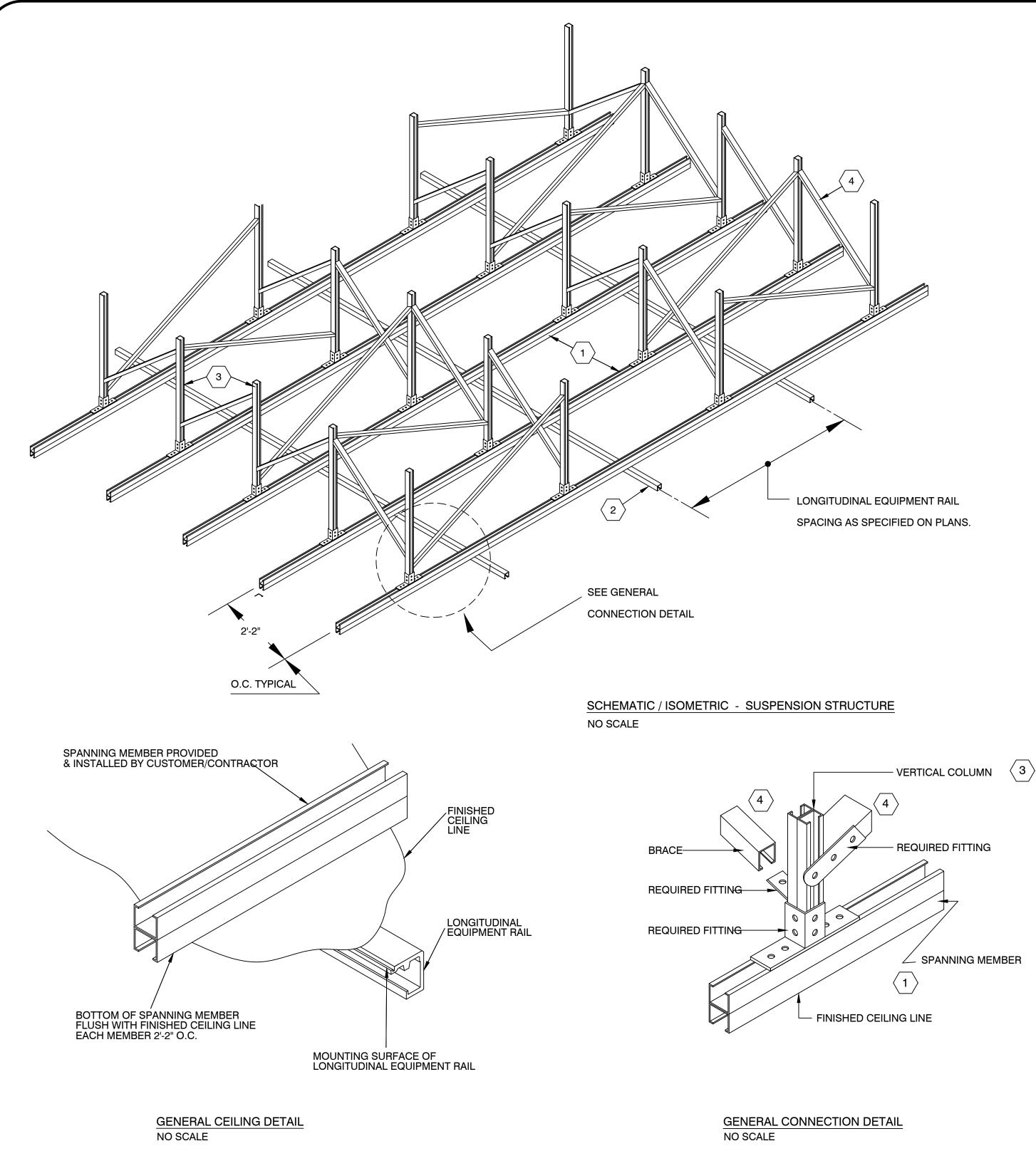


# INTERCONNECT OF XGE



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	CABINET → CEILING	PROJECT DEVELOPMENT OFFICE: 816-741-5558
	WIRING : WALL AND CEILING	CELL: 816-223-6378 FAX: 816-587-2423 EMAIL: GNOWACZYK@RADSOURCE.NET
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	7.85 m	S LUKES ROCKHILL
		120 NE SAINT LUKE'S BLVD SUITE 200, LEE'S SUMMIT, MO 64086
	► CABINET → WORK-	ARCHITECT: BRIAN DOSTAL p.816.728.1999 BDOSTAL@ACIBOLAND.COM
	STATION	ELECTRICAL CONTRACTOR:
	WIRING : FLOOR	p m.XXX-XXX-XXXX 
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## STRUT CHANNEL SUPPORT FRAME NOTES

RECOMMENDED UNIVERSAL STEEL STRUT CHANNEL SUPPORT FRAME.

ALLOWS FOR TRANSVERSE AND LONGITUDINAL ADJUSTMENT AT TIME OF EQUIPMENT INSTALLATION. DETERMINATION OF THE ACTUAL DESIGN SHALL BE COORDINATED AND APPROVED BY THE ENGINEER OF RECORD. ALL STEEL STRUT MEMBERS SHALL BE PROVIDED AND INSTALLED BY CUSTOMER / THEIR CONTRACTOR.

- SPANNING MEMBERS: STEEL CHANNEL STRUT  $\langle 1 \rangle$ FLUSH WITH FINISHED CEILING. SPACED AS INDICATED ON SHEET "S1"
- LONGITUDINAL EQUIPMENT RAILS: FASTENED  $\langle 2 \rangle$ TO UNDERSIDE OF SPANNING MEMBERS.
- COLUMNS: STEEL CHANNEL STRUT ATTACHED  $\langle 3 \rangle$ TO SPANNING MEMBERS AS SHOWN ON GENERAL CEILING DETAIL. NUMBER AND LOCATION OF VERTICAL COLUMNS SHALL VARY DEPENDING ON BUILDING CONSTRUCTION.

BRACES: STEEL CHANNEL STRUT ATTACHED TO 〈 4 〉 VERTICAL COLUMNS AS SHOWN ON DETAIL.

> THE ATTACHED DRAWINGS ARE FOR LAYOUT PURPOSES AND GENERAL MEANS OF FABRICATION. THE CUSTOMER'S ENGINEER OF RECORD OR AGENT SHALL PREPARE CONSTRUCTION DOCUMENTS.

> THESE DRAWINGS INDICATE PLACEMENT OF THE PURCHASED EQUIPMENT, AS WELL AS DESCRIBE THE STRUCTURAL REQUIREMENTS FOR THAT EQUIPMENT. RADSOURCE WILL NOT BE RESPONSIBLE FOR OTHER DESIGNS AND CONSTRUCTION.

EVERY EFFORT HAS BEEN MADE TO ASSURE THAT THE EQUIPMENT DEPICTED ON THE ATTACHED RECOMMENDED LAYOUT, CONFIGURES THE LAYOUT PLAN TO ALLOW OPTIMUM OPERATION OF THE EQUIPMENT. THE CUSTOMER'S ENGINEER OF RECORD AND / OR AGENT SHALL BEAR SOLE RESPONSIBILITY FOR COMPLIANCE WITH APPLICABLE CODES ...

---- SHALL PROVIDE AND INSTALL ALL MATERIALS ALONG WITH ANY OTHER FEATURES CALLED OUT IN THE PLANS.

THE CONTRACTOR ---- IS RESPONSIBLE FOR ANY FINAL PAINT OR TOUCH-UP WORK WHICH SHALL BE COMPLETED AFTER THE INSTALLATION OF THE PURCHASED SYSTEM.

EXISTING SERVICES THAT WILL NOT BE USED (PLUMBING, JUNCTION BOXES, FLOOR DRAINS ETC.) MUST BE CAPPED OR COVERED PRIOR TO COMMENCEMENT OF EQUIPMENT INSTALLATION.

# MINIMUM CEILING HEIGHT: 9'-4"



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# PROJECT

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120 NE SAINT LUKE'S BLVD SUITE 200, LEE'S SUMMIT, MO 64086

ARCHITECT: **BRIAN DOSTAL** p.816.728.1999 BDOSTAL@ACIBOLAND.COM

ELECTRICAL CONTRACTOR:

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GENERAL CONTRACTOR:

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PROJECT MANAGER FOR CUSTOMER:

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#### GENERAL STRUCTURAL CEILING SUPPORT REQUIREMENTS

A WELDED OR FABRICATED STRUCTURAL SUPPORT IS REQUIRED FOR CEILING MOUNTED X-RAY UNITS. IT'S TOP MEMBER IS FASTENED TO THE FLOOR SLAB (OR BUILDING STEEL) ABOVE THE EXAM ROOM. THE BOTTOM OF IT'S LOWEST SPANNING MEMBER IS FLUSH WITH THE FINISHED CEILING TO WHICH THE STATIONARY CEILING TRACKS ARE FASTENED.

THE DETAILS PROVIDED HERE INDICATE A BASIC SUPPORT METHOD THAT PERMITS TRANSVERSE AND LONGITUDINAL ADJUSTMENT OF BOLT CENTERS AT THE INSTALLATION SITE. IT CAN BE ADAPTED TO ACCOMMODATE THE VARIOUS ARCHITECTURAL CIRCUMSTANCES ENCOUNTERED AT EACH INSTALLATION.

THE SUPPORT MUST BE RIGID, SECURELY BRACED AND LEVEL IN BOTH DIRECTIONS AT THE FINISHED CEILING LINE. LENGTH AND LOADING CAPACITY WILL DEPEND ON THE SELECTED CEILING UNIT AND NUMBER OF CARRIAGE ASSEMBLIES TO BE BORNE. ACTUAL EQUIPMENT LOADS FOR EACH ROOM ARE SPECIFIED ON SITE PLANNING DRAWINGS UNDER THE STRUCTURAL DETAIL SPECIFICATIONS.

IT IS SUGGESTED THAT THROUGH BOLTING THE SUPPORT STRUCTURE TO BUILDING STRUCTURE OCCUR WHENEVER POSSIBLE. APPLICABLE CONDITIONS WILL ALSO ACCEPT THE APPLICATION OF HILTI EXPANSION ANCHORS (OR EQUAL) IN LIEU OF THROUGH BOLTING. ACTUAL METHODS AND MATERIALS SHALL BE DETERMINED BY THE ENGINEER OF RECORD. ALL SUPPORT MEMBERS, ANCHOR BOLTS AND HARDWARE SHALL BE PROVIDED AND INSTALLED BY THE CUSTOMER/CONTRACTOR. THE LENGTH OF BOLTS SHALL BE DETERMINED TO MEET SPECIFIC SITE REQUIREMENTS BY THE ENGINEER OF RECORD.

CENTERLINES OF THE TWO LONGITUDINAL RAILS HOLDING THE SUSPENDED WEIGHTS ARE SHOWN. STEEL CHANNEL STRUT FLUSH FINISHED CEILING SHALL BE IDENTIFIED AS THE SPANNING MEMBERS. THESE MEMBERS MUST BE LEVEL IN BOTH DIRECTIONS TO WITHIN 1MM AND BRACED TO PREVENT MOVEMENT IN ANY DIRECTION. THEY MUST BE SECURED TO THE SLAB ABOVE AND/OR TO THE BUILDING STRUCTURE TO HOLD THE DEAD WEIGHTS INDICATED. SEE EQUIPMENT LEGEND "SHEET A1"

INSTALLATION OF THE SUPPORT MAY BE AFFECTED BY OTHER ARCHITECTURAL OR MECHANICAL PROVISIONS WHICH MAY BE LOCATED IN THE SAME AREA. IN THIS CASE, COORDINATION OF THE REPRESENTATIVE MUST BE CONSULTED BEFORE ANY DEVIATION FROM THE SITE PLANNING DRAWINGS IS UNDERTAKEN.

1. CUSTOMER S LUKES ROCKHILL CAN ALSO UTILIZE AN EXISTING SUPPORT STRUCTURE, ONLY IF THE STRUCTURE IS CERTIFIED BY A

LICENSED/PROFESSIONAL STRUCTURAL ENGINEER.

2. SUPPORT STRUCTURE MUST MEET ALL REQUIRED EQUIPMENT SUPPORT NEEDS FOR WIDTH, DEPTH, STRENGTH, ETC.

3. CUSTOMER S LUKES ROCKHILL IS RESPONSIBLE FOR MEETING SITE CONDITIONS FOR STATIC LOADS, LEVELNESS, ETC.

## GENERAL STRUCTURAL NOTES

FLOOR SLABS ON WHICH EQUIPMENT IS TO BE INSTALLED MUST BE LEVEL TO 1MM IN 10.0'.

DIMENSIONS ARE TO FINISHED SURFACES OF ROOM.

CUSTOMERS CONTRACTOR ---- MUST PROVIDE ALL PENETRATIONS IN POST TENSION FLOORS.

CUSTOMERS CONTRACTORS ----MUST PROVIDE AND INSTALL ALL HARDWARE FOR "THROUGH THE FLOOR" ANCHORING AND/OR ANY BRACING UNDER SLAB AND/OR ACCESS FLOORS. THE CONTRACTOR MUST ALSO PROVIDE FLOOR DRILLING THAT CAN NOT BE COMPLETED BECAUSE OF AN OBSTRUCTION ENCOUNTERED BY THE INSTALLER SUCH AS REBAR ETC...

IT IS THE RESPONSIBILITY OF THE CUSTOMER S LUKES ROCKHILL/CONTRACTOR ---- TO PERFORM ANY FLOOR OR WALL PENETRATIONS THAT MAY BE REQUIRED. THE CUSTOMER S LUKES ROCKHILL/CONTRACTOR ---- IS ALSO RESPONSIBLE FOR ENSURING THAT NO SUBSURFACE UTILITIES i.e. ELECTRICAL, PLUMBING OR ANY OTHER FORM OF WIRING, CONDUITS, PIPING, DUCT WORK OR STRUCTURAL SUPPORTS E.G. POST TENSION CABLES OR REBAR WILL INTERFERE OR COME IN CONTACT WITH SUBSURFACE PENETRATION OPERATIONS, E.G. DRILLING AND INSTALLATION OF ANCHORING PERFORMED DURING THE INSTALLATION PROCESS. TO ENSURE WORKERS SAFETY INSTALLERS WILL ONLY PERFORM SURFACE PENETRATION OPERATIONS ONLY AFTER THE CUSTOMERS CONTRACTOR HAS VALIDATED THE SURFACE TO BE PENETRATED.

ALL CEILING MOUNTED FIXTURES SUCH AS AIR VENTS, SPRINKLERS etc. TO BE FLUSH MOUNTED OR NOT TO EXTEND MORE THEN 1/4" BELOW THE FINISHED CEILING.

ALL STEEL WORK AND PARTS NECESSARY TO SUPPORT CEILING MOUNTED EQUIPMENT IS TO BE SUPPLIED BY THE CUSTOMER S LUKES ROCKHILL OR THEIR CONTRACTOR ----.

ALL UNITS THAT ARE WALL MOUNTED OR WALL SUPPORTED ARE TO BE PROVIDED WITH SUPPORTS WHERE NECESSARY. WALL SUPPORTS ARE TO BE SUPPLIED AND INSTALLED BY THE CUSTOMER S LUKES ROCKHILL OR THEIR CONTRACTOR ----.



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ELECTRICAL CONTRACTOR: ---p.---m.XXX-XXX-XXXX

GENERAL CONTRACTOR:

p.---m.----

PROJECT MANAGER FOR CUSTOMER:

p.----

XXX p. XXX XXX

RADIOLOGY DIRECTOR

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