

CONNECTIVITY REQUIREMENTS

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 utilizing 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).

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.
 - Aluminum or solid wires are not allowed.
 - 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.
- Conduit sizes shall be verified by the architect, electrical engineer or contractor, in accordance with local or national codes.
- Convenience outlets are not illustrated. Their number and location are to be specified by others. 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 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.
- 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 electrical codes.
- 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.
- The maximum point to point distances illustrated on this drawing must not be exceeded.
- 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.
- 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:
 - Ductwork shall be metal with dividers and have removable, accessible covers.
 - Ductwork shall be certified/rated for electrical power purposes.
 - Ductwork shall be electrically and mechanically bonded together in an approved manner.
 - 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.

ELECTRICAL LAYOUT ITEM LIST

1	Main Disconnect Panel
2	Suitable bushings & locknuts (Table)
3	Existing 10" x 3 1/2" [250 x 100] surface wall duct with minimum 2 dividers
4	Flush box - size per local code (Chest Unit)
5	Flush box - size per local code (Generator)
6	Flush box - size per local code (Access Point)
7	Flush box - size per local code (Detector Bin)
8	Existing 10" x 3 1/2" [250 x 100] Flush vertical wall duct with minimum 2 dividers
9	Box above ceiling - size per local code
10	Flush box in ceiling - size per local code (OTS)
11	One 1 1/2" [38] conduit above ceiling
12	One 2" [50] conduit above ceiling
13	One 2 1/2" [64] conduit above ceiling
14	One 3 1/2" [89] conduit above ceiling
15	One 2" [50] conduit below floor
16	Existing one 2 1/2" [64] Conduit below floor
17	8" x 3 1/2" [200 x 100] surface vertical wall duct with minimum 2 dividers
18	Grommet opening in duct for Operators Console
19	Flush box - size per local code (Operators Console)

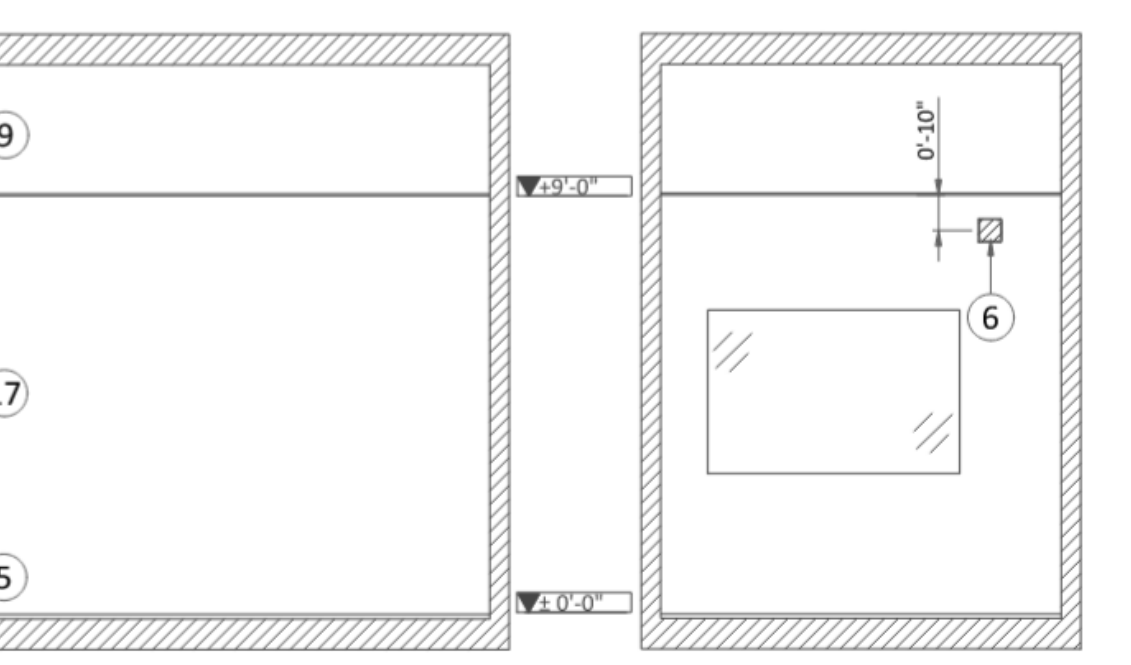
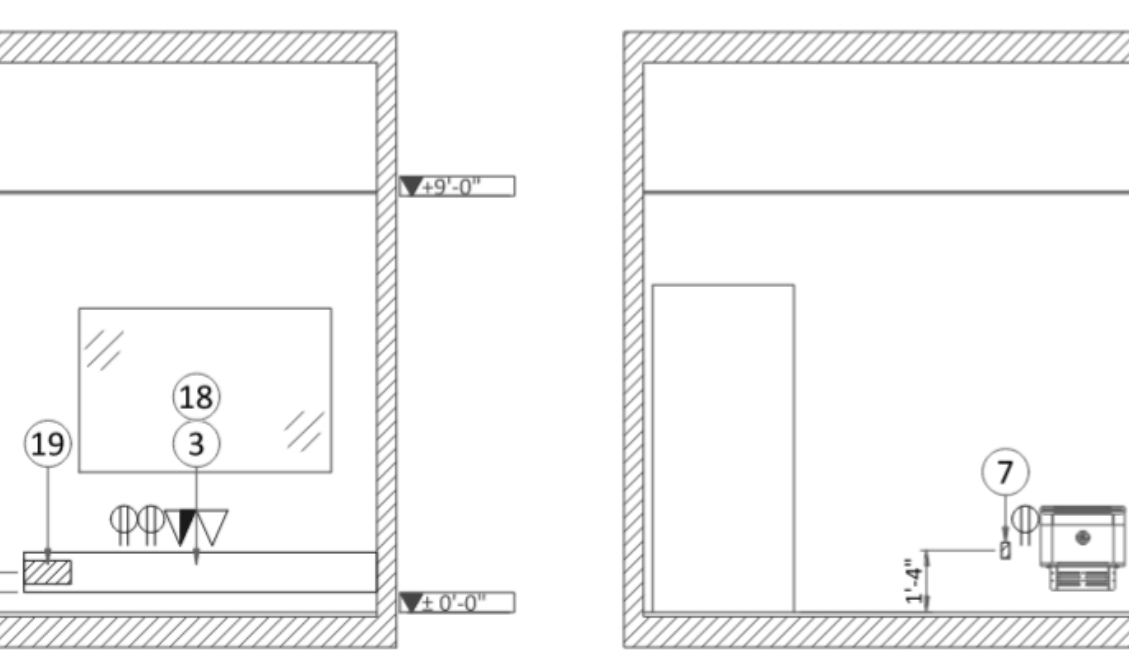
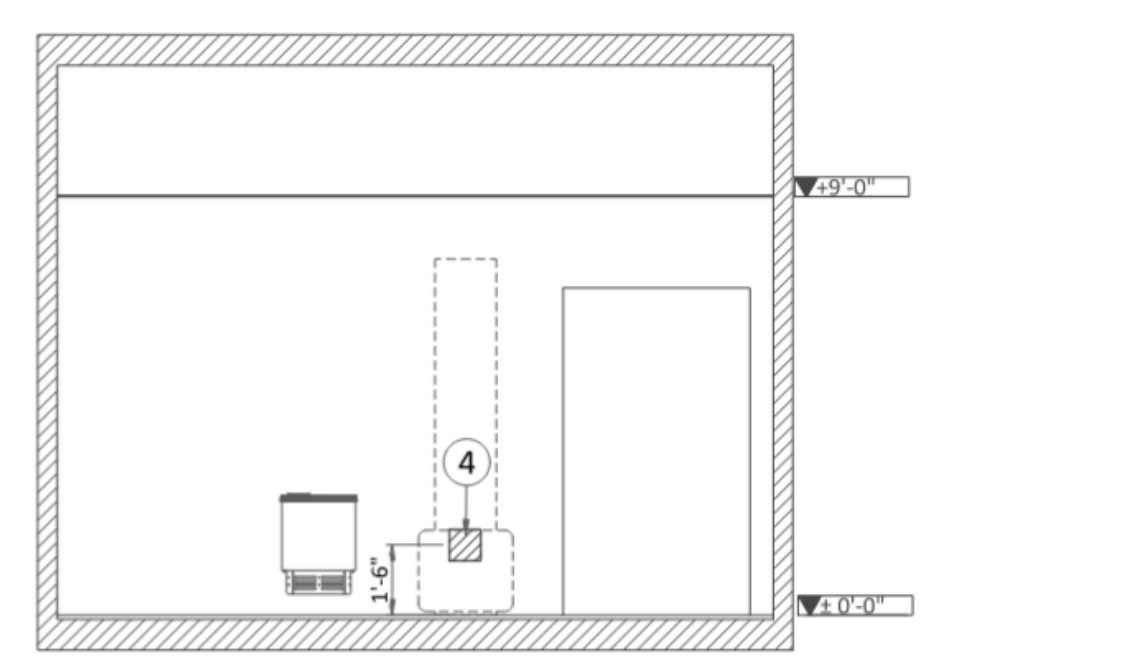
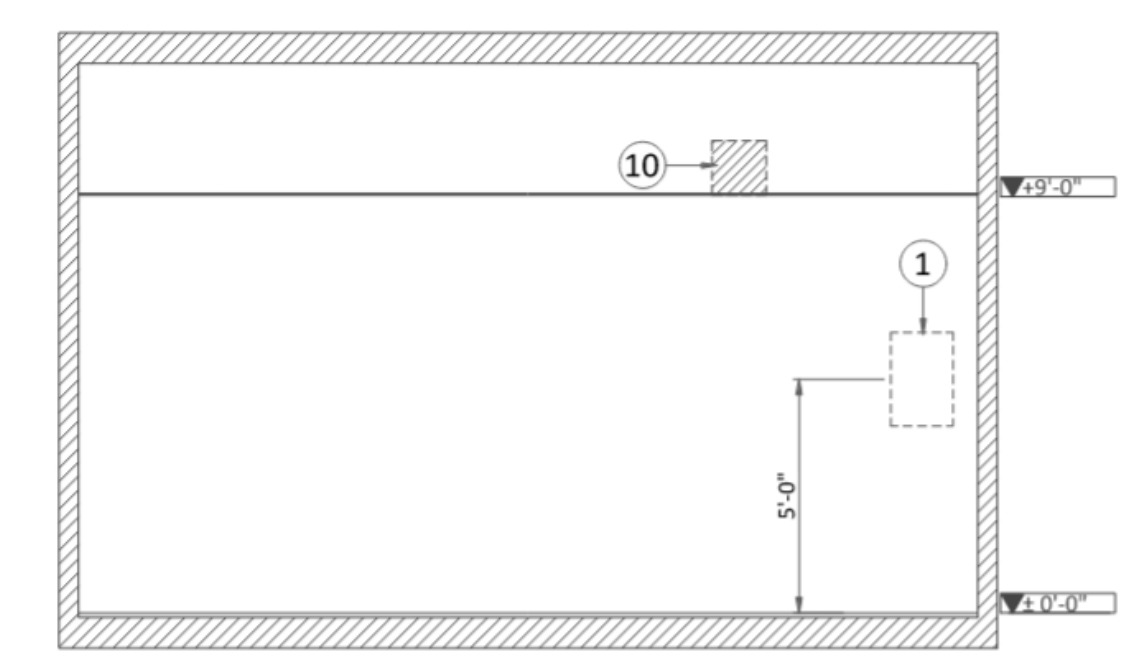
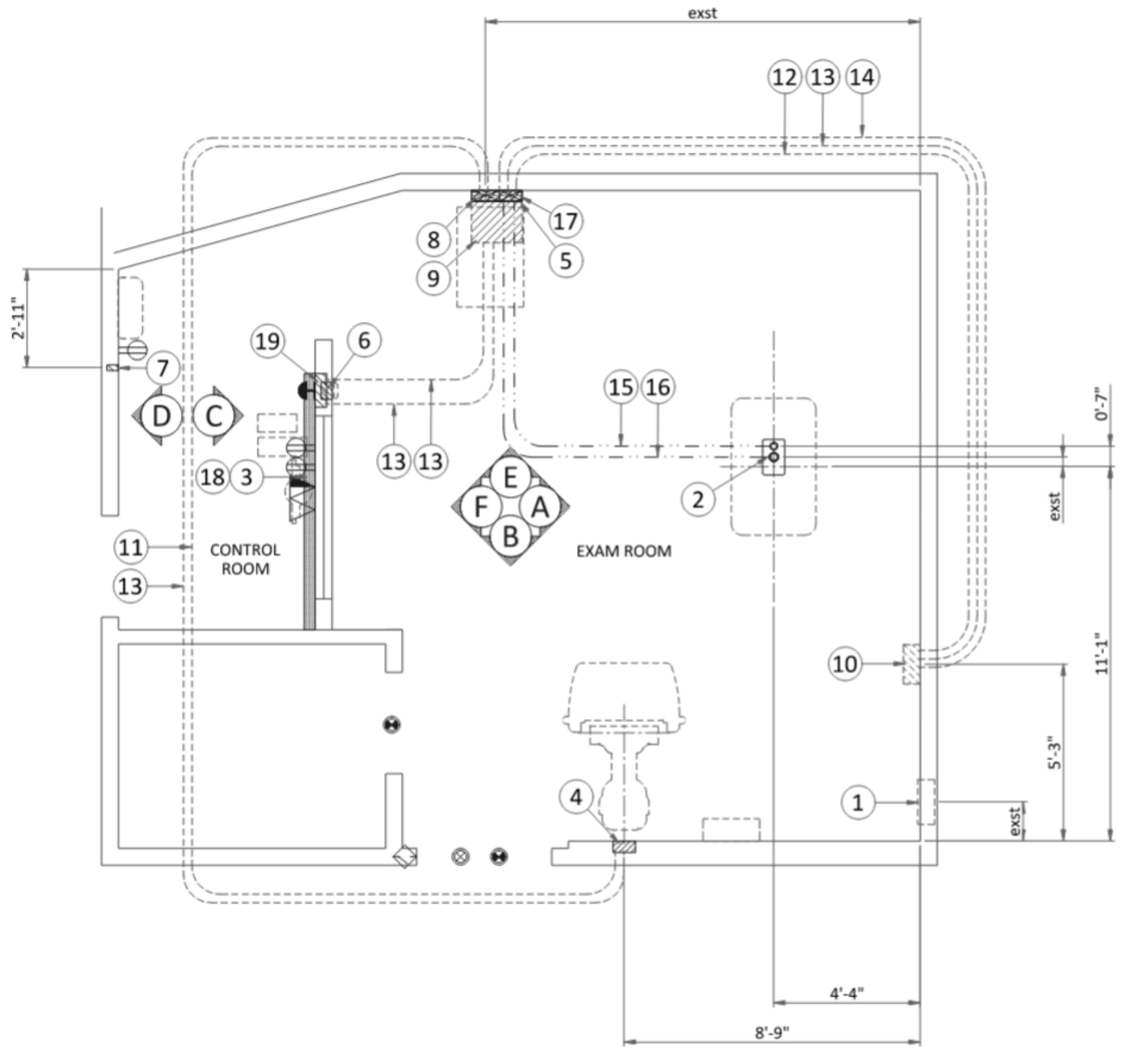
Outlet Legend for GE Equipment

⊕	System emergency off (SEO), (recommended height 1.2m [48"] above floor)
⊗	X-Ray room warning light control panel
⊙	X-Ray ON lamp (L1) - 24V
⊚	Door interlock switch (needed only if required by state/local codes)
⊛	Duplex hospital grade, dedicated wall outlet 120-v, single phase power
⊜	Dedicated telephone line(s)
⊝	Network outlet

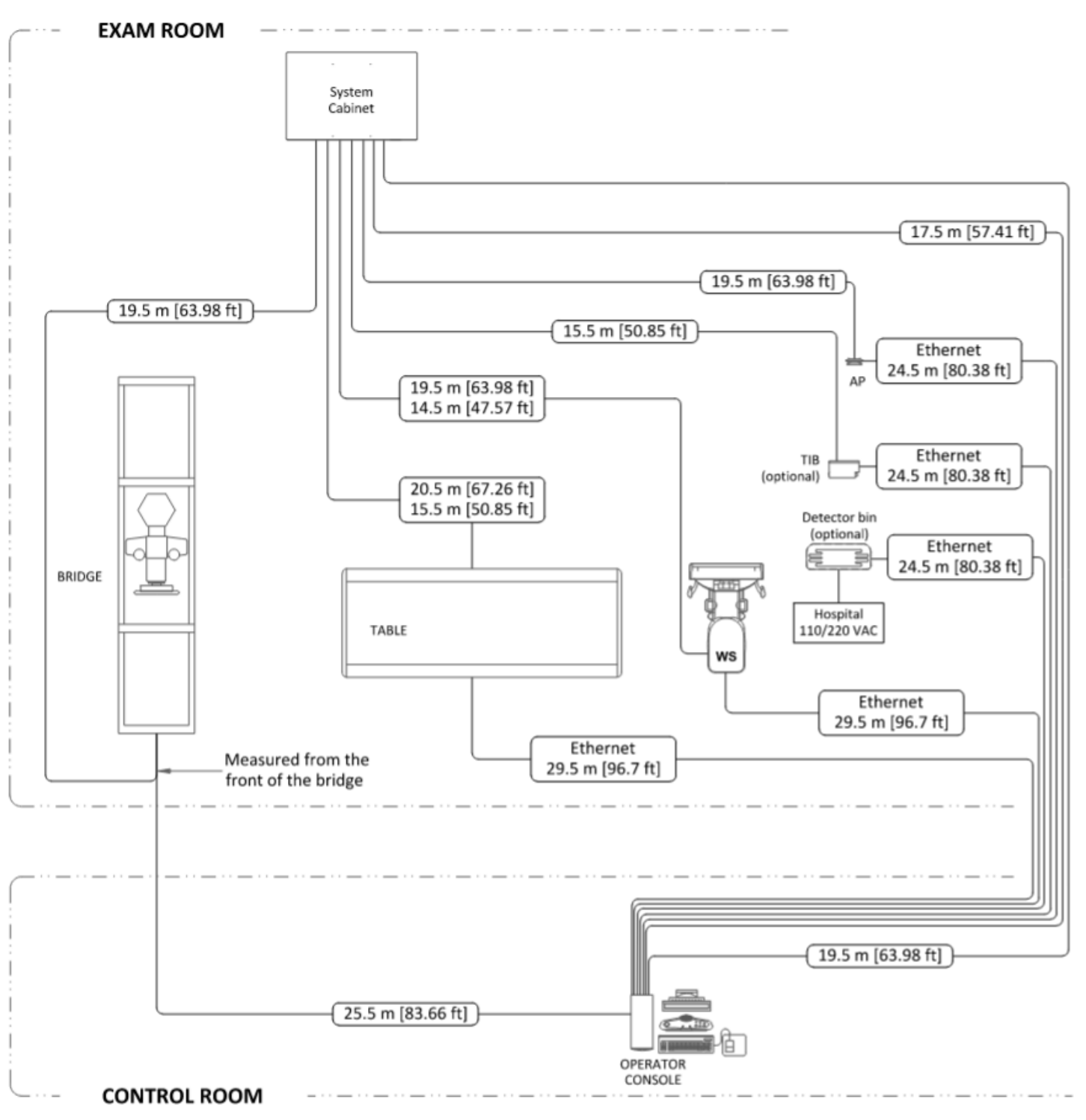
Existing Electrical Note:
Use existing duct/conduits where possible. Additional duct/conduit runs may be necessary if existing system is inadequate in size and/or location for this installation. Verify existing size and location.

Additional Conduit Runs
(Contractor Supplied and Installed)

From (Bubble # / Item)	To (Bubble # / Item)	Qty	Size	
			In.	mm
3 Phase Power	1 Main Disconnect	1	As req'd	As req'd
	Emergency Off	1	1/2	13
1 Main Disconnect	9 Systems Cabinet	1	As req'd	As req'd
Warning Light	Warning Light Control	1	1/2	13
1 Phase Power		1	As req'd	As req'd
		1	1/2	13
9 Systems Cabinet	Door Switch	1	1/2	16
	Access Point	1	1	27
	Detector Bin	1	1	27
19 Operators Console	Access Point	1	2	53

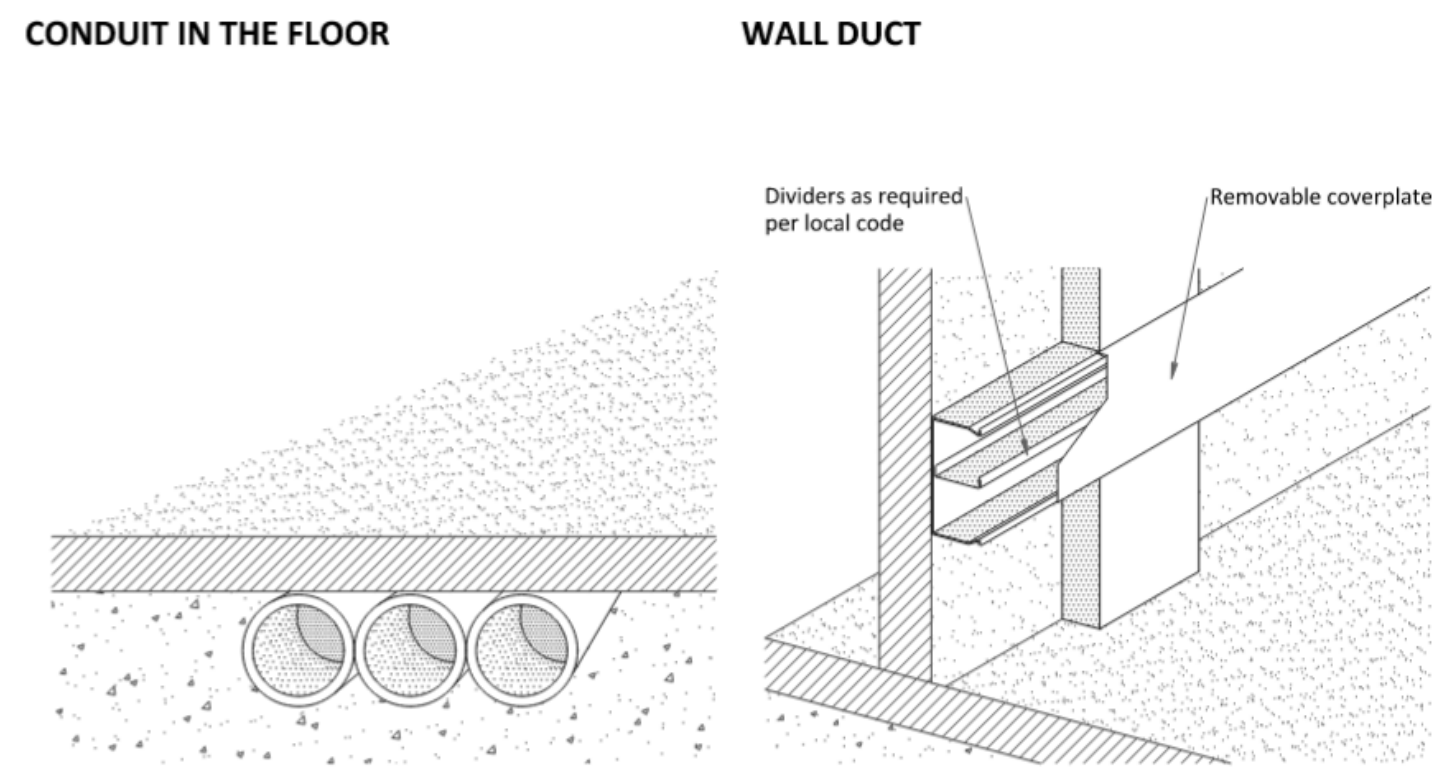


INTERCONNECTIONS



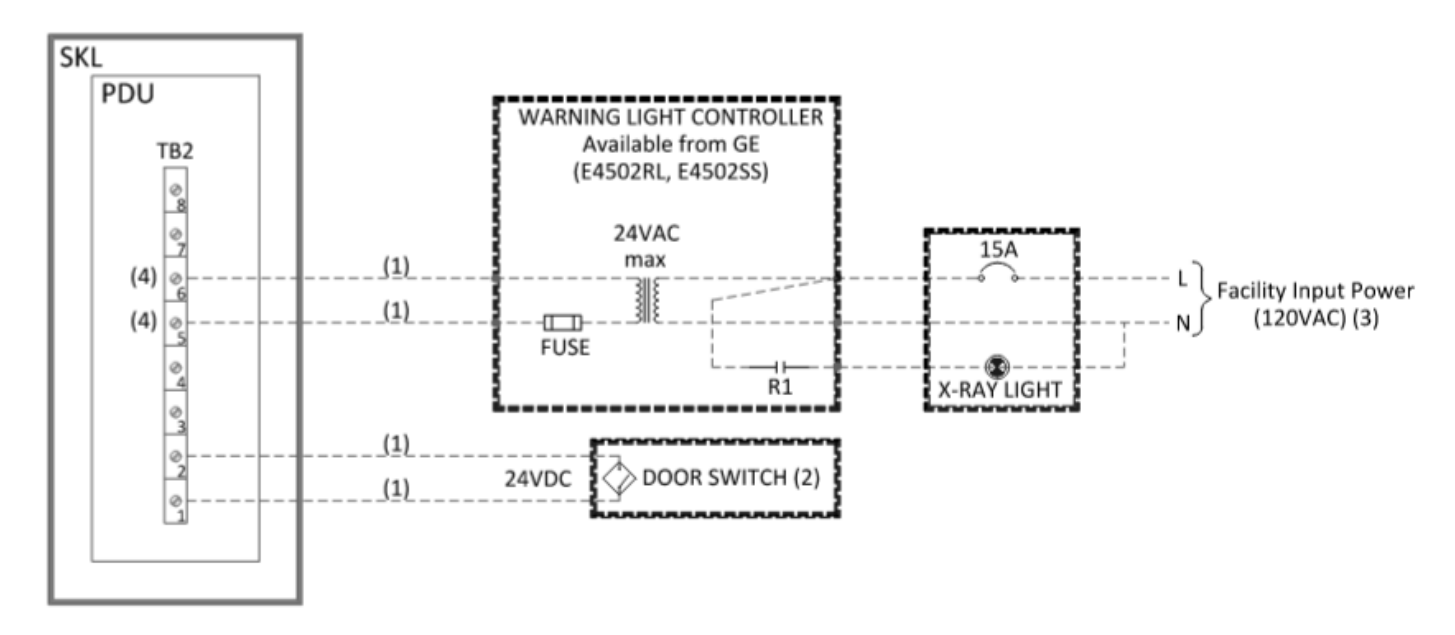
----- Long usable length
----- Standard usable length

TYPICAL CABLE MANAGEMENT

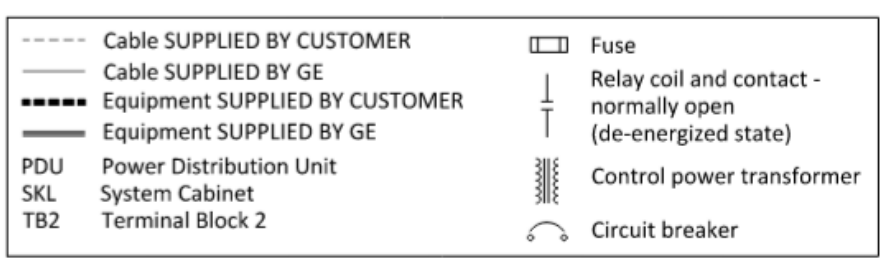


NOT TO SCALE

EXAM ROOM WARNING LIGHT AND DOOR INTERLOCK



- Notes:
- Wire size: 2mm² [14 AWG] at 24V
 - Door interlock circuit is jumpered on the detail, but must comply with local codes.
 - Grounding not shown on the detail, but must comply with local codes.
 - Normally open relay contact in cabinet



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 power distribution box (PDB/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 PDB/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.
- Cables for signals and remote control (Y, SEO, L...) will go to PDB with a pigtail length of 1.5m [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
 - Replacing cables (cableways should be large enough for cables to be replaced) metal cableways should be grounded.

POWER DISTRIBUTION

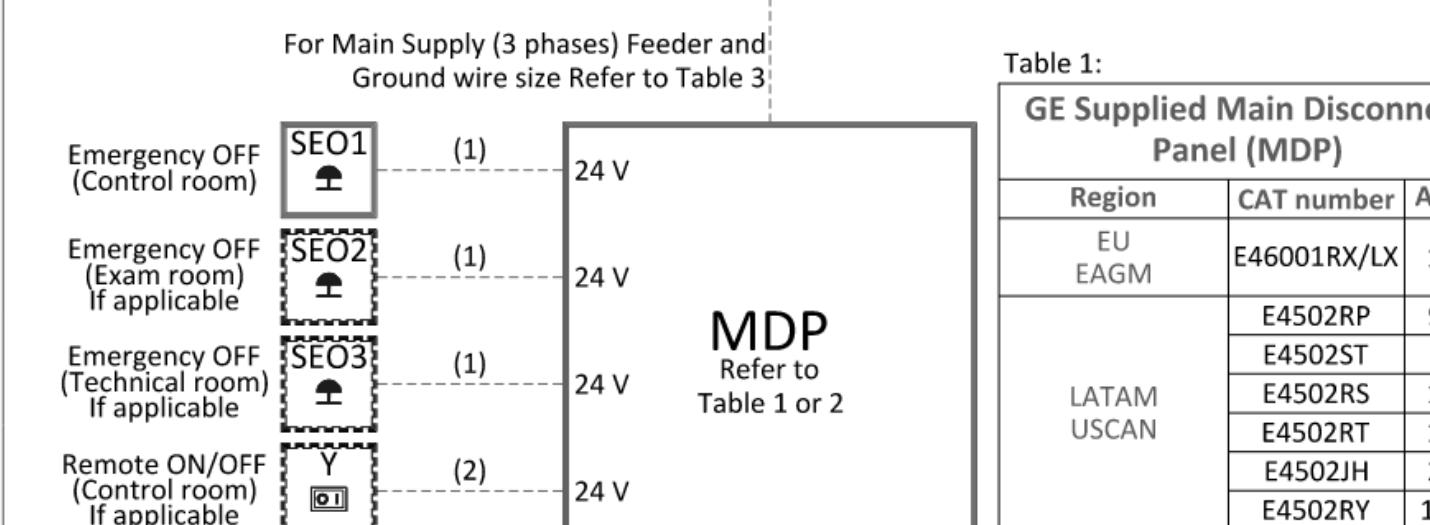


Table 1: GE Supplied Main Disconnect Panel (MDP)

Region	CAT number	Amps
EU EAGM	E46001RX/LX	150
LATAM USCAN	E4502RP	90*
	E4502ST	80
	E4502RS	110
	E4502RT	150
	E4502JH	225
E4502RY	125*	
United Kingdom, Ireland	E46001TC-PD	

*with auto restart

Table 2: Recommended minimum customer supplied Main Disconnect Panel (MDP) rating

Power/Voltage	65 kW
380 V	74 A
400 V	70 A
415 V	67 A
440 V	64 A
460 V	61 A
480 V	59 A

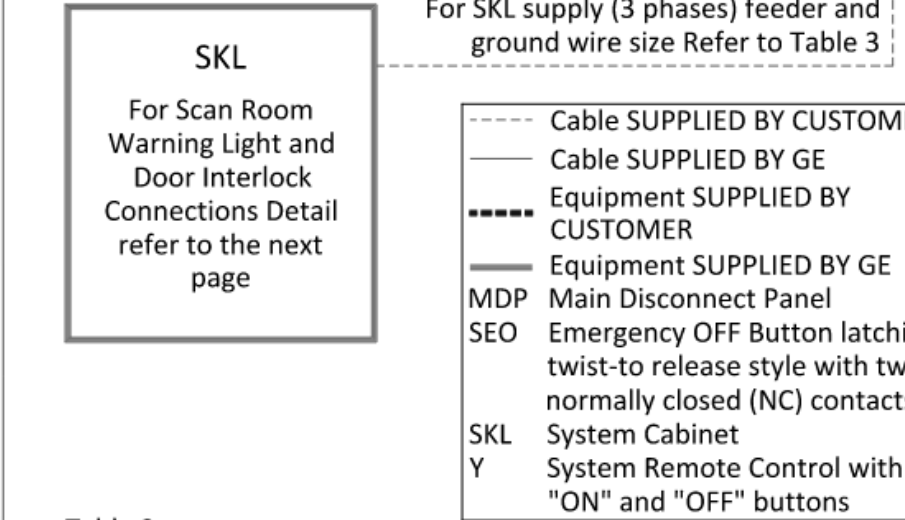


Table 3:

Feeder Table - JEDI 65kW Systems Cabinet

Calculations based on nominal voltage.
Recommended feeder sizes from distribution transformer to the power cabinet.
Neutral must be terminated inside the Main Disconnect Panel (MDP) and not at any GE cabinet.

Wire run length ft (m)	Minimum Wire Size, AWG or MCM (mm ²)/VAC					
	380 VAC	400 VAC	420 VAC	440 VAC	460 VAC	480 VAC
50 (15)	4 (22)*	4 (22)*	4 (22)*	4 (22)*	4 (22)*	4 (22)*
100 (30)	3 (16)	4 (22)*	4 (22)*	4 (22)*	4 (22)*	4 (22)*
150 (46)	2 (18)	2 (18)	2 (18)	3 (16)	3 (16)	4 (22)*
200 (61)	1/0 (55)	1 (45)	1 (45)	2 (18)	2 (18)	2 (18)
250 (76)	2/0 (70)	2/0 (70)	3/0 (55)	1 (45)	1 (45)	1 (45)
300 (91)	3/0 (85)	2/0 (70)	2/0 (70)	1/0 (55)	1/0 (55)	1/0 (55)
350 (107)	4/0 (100)	3/0 (85)	3/0 (85)	2/0 (70)	2/0 (70)	1/0 (55)
400 (122)	250M (125)	4/0 (100)	4/0 (100)	3/0 (85)	3/0 (85)	2/0 (70)
450 (138)	300M (150)	250M (125)	4/0 (100)	4/0 (100)	3/0 (85)	3/0 (85)

*minimum wire size for circuit breaker, based on recommended overcurrent protection

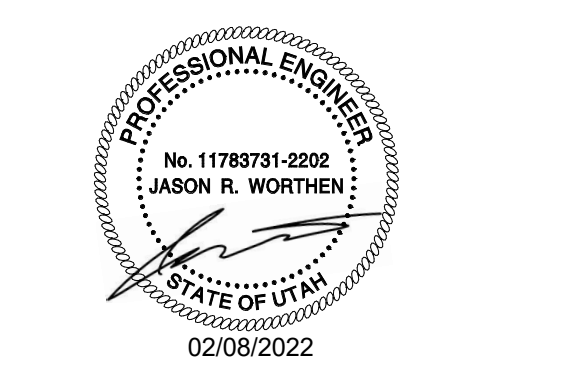
Grounding

The grounding conductor will be of same size as the feeder. This ground will run from the equipment back to the facility power source/main grounding point and always travel in the same conduit with the feeders and neutral.

Notes:
(1) Wire size: 2x1.5mm² [16AWG]
(2) Wire size: 6x2mm² [14AWG] and 1x2mm² [14AWG] GND



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5272 S. College Drive, Suite 104
Murray, Utah 84123
801.384.9259
www.njraarchitects.com



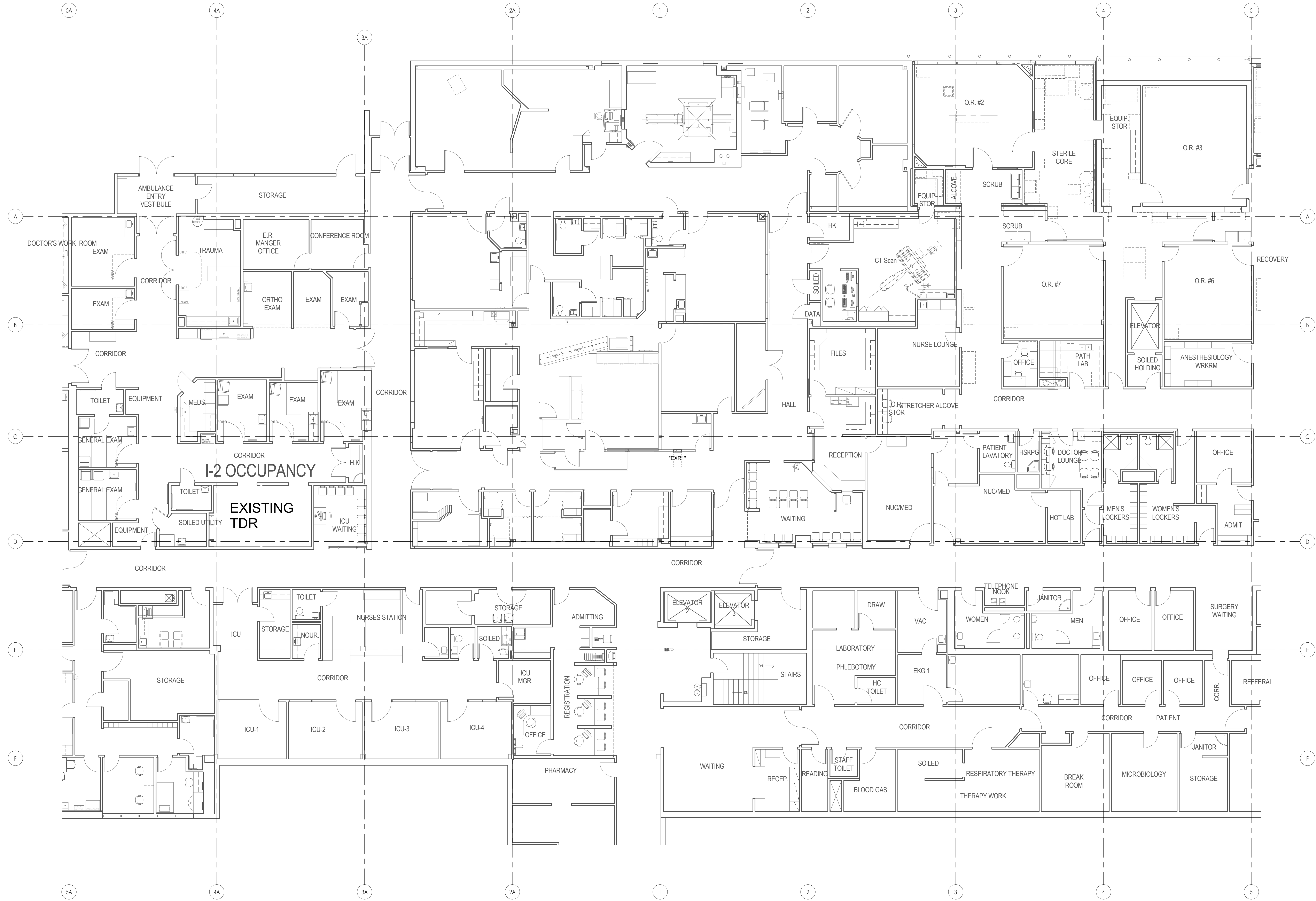
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324 S. State St., Suite 400
Salt Lake City, UT 84111
801-478-7077
801-328-5151
fax: 801-328-5155
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Intermountain Healthcare
Alta View Hospital
X-Ray Replacement

9400 S. 1300 E
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IMAGING
VENDOR
DRAWINGS

EE702



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1 LEVEL 2 OVERALL POWER PLAN
SCALE: 1/8" = 1'-0"

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NJRA Project # 21214.00
Schematic Design Dec. 8, 2021

LEVEL 2
OVERALL
POWER PLAN

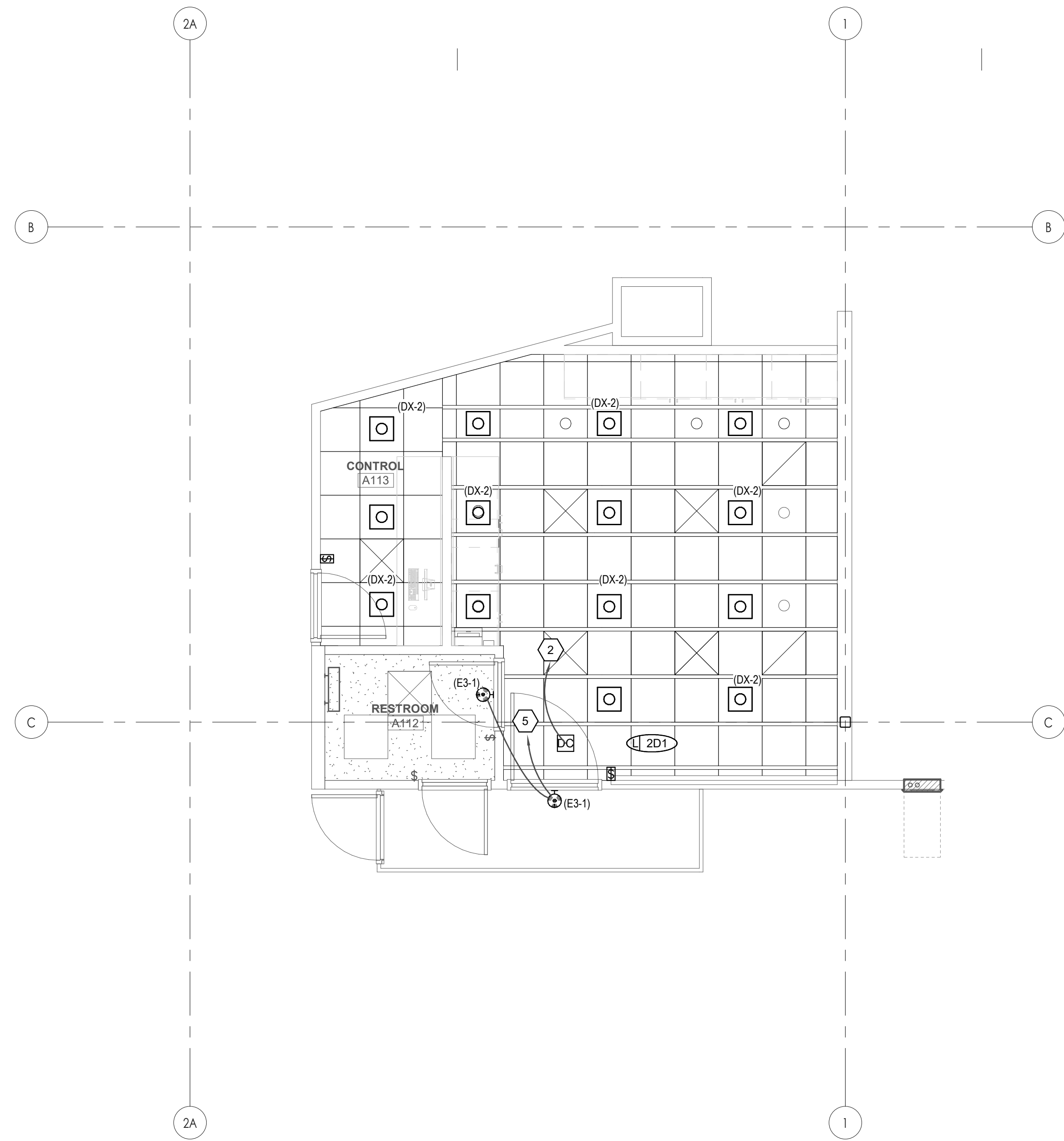
EP100



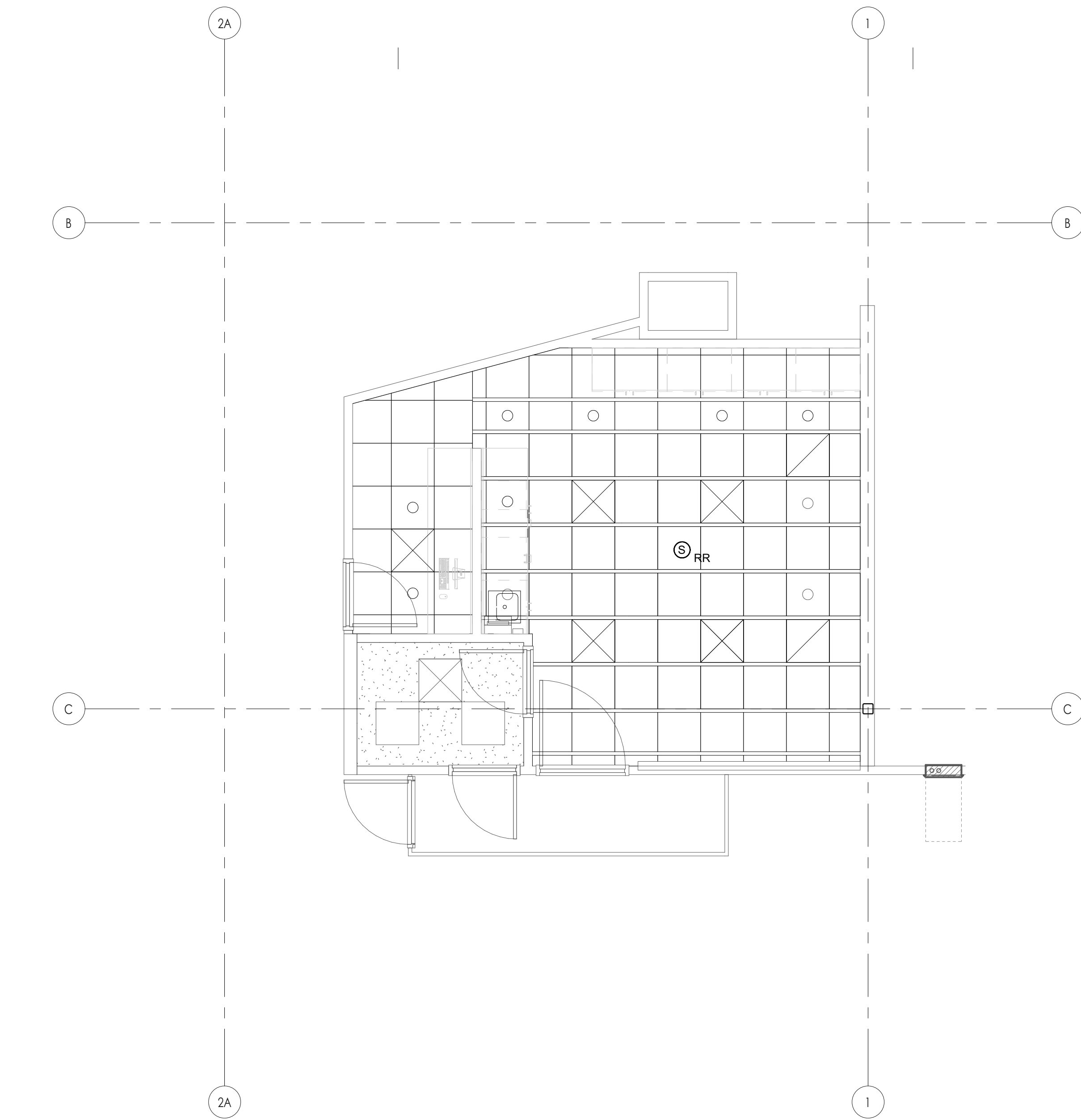
GENERAL SHEET NOTES

SHEET KEYNOTES

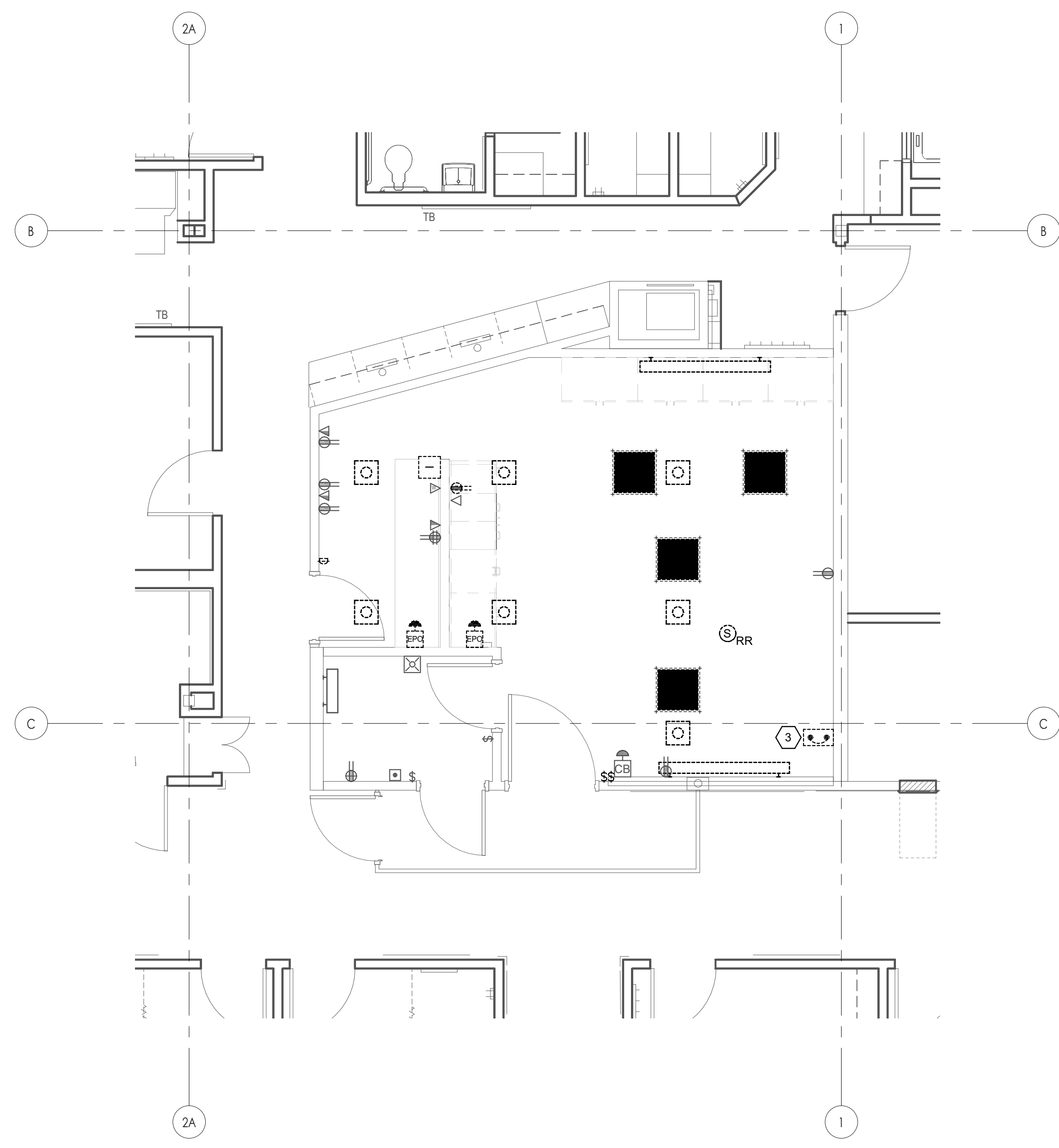
- 1 PROVIDE NEW GEI RECEPTACLE IN THE SAME LOCATION AND USING THE SAME CIRCUITING AS THE PREVIOUS RECEPTACLE IN THIS LOCATION.
- 2 CIRCUIT TO EXISTING LIGHTING CIRCUIT THAT PREVIOUSLY FED THE LIGHTING IN THIS SPACE.
- 3 REMOVE EXISTING 100A BREAKER, MAINTAIN EXISTING FEEDERS FOR USE WITH THE NEW CIRCUIT BREAKER. REFER TO POWER PLAN.
- 4 RE-USE EXISTING FEEDERS AND INSTALL THE NEW GE SUPPLIED BREAKER FOR NEW GE EQUIPMENT. REFER TO GE DRAWINGS FOR ALL CONTRACTOR RESPONSIBILITIES.
- 5 CIRCUIT WITH EXISTING 120V RECEPTACLE CIRCUIT IN THE ROOM.



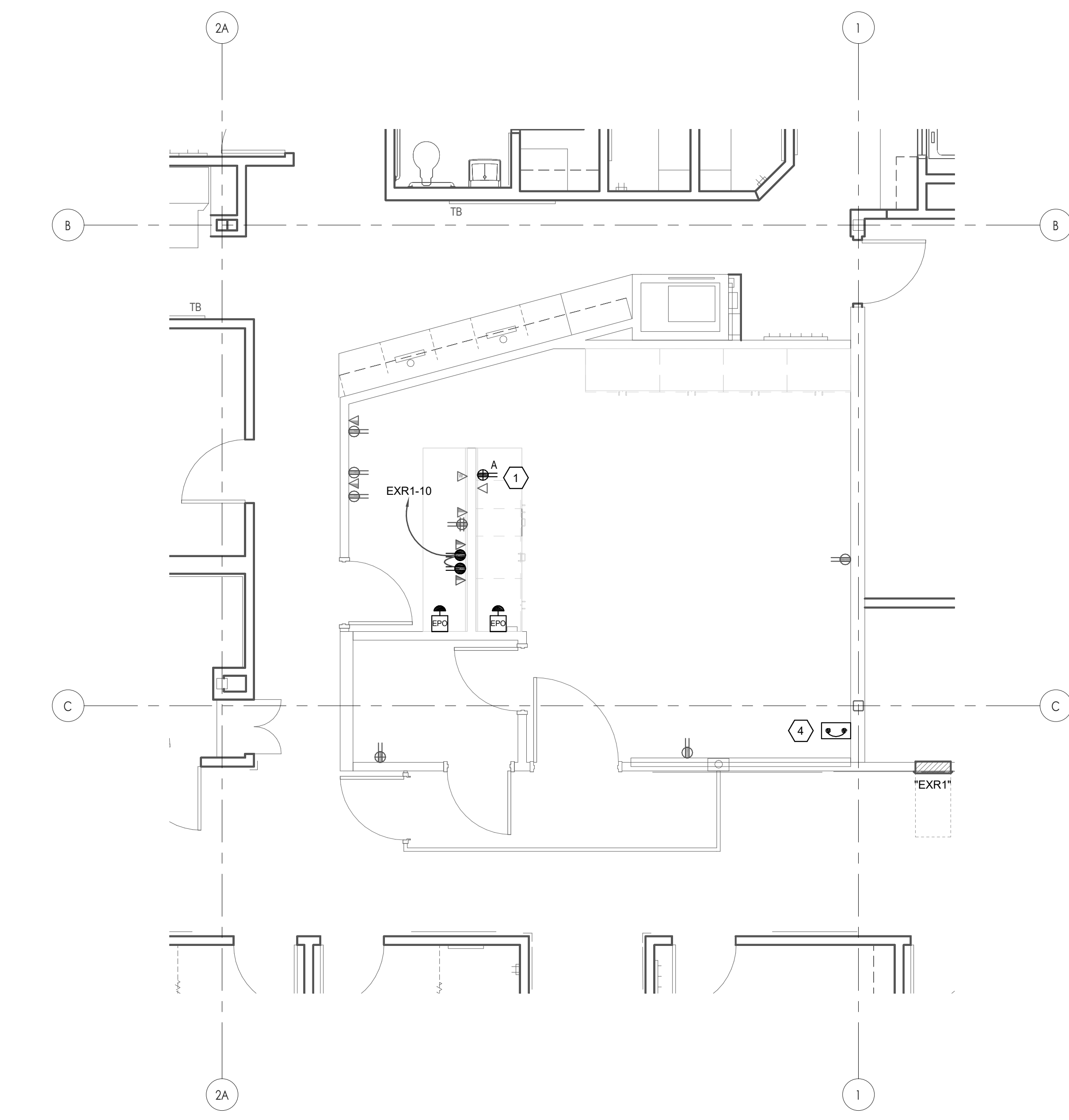
3 LEVEL 2 LIGHTING PLAN
SCALE: 1/4" = 1'-0"



4 LEVEL 2 AUXILIARY PLAN
SCALE: 1/4" = 1'-0"

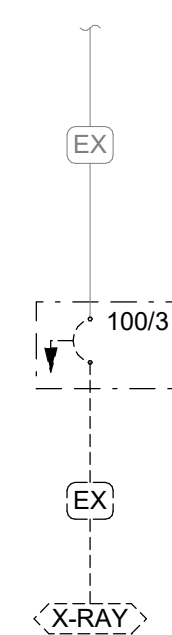


1 LEVEL 2 ELECTRICAL DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

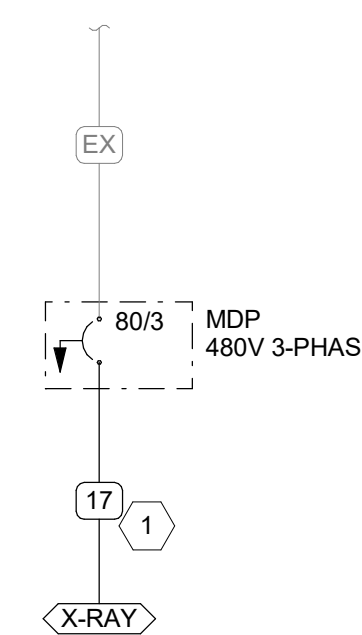


2 LEVEL 2 POWER PLAN
SCALE: 1/4" = 1'-0"

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1 DEMOLITION ONE-LINE DIAGRAM
NO SCALE



1 NEW WORK ONE-LINE DIAGRAM
NO SCALE

GENERAL SHEET NOTES

SHEET KEYNOTES

- PROVIDE EQUIPMENT GROUNDING CONDUCTOR THE SAME SIZE AS PHASE CONDUCTORS.

CONDUCTOR AND CONDUIT SCHEDULE

SCHEDULE NUMBER (E.G.) 5 IG
SUBSCRIPT (NOTE 5)

SYM	AMP	CONDUIT SIZE	CONDUCTOR(NOTE 1)			IG	SE	NOTES
			QTY	SIZE	G			
1	20	.75	2	12	12	12	8	2
2	20	.75	3	12	12	12	8	2,3
3	20	.75	4	12	12	12	8	2,3
4	30	.75	2	10	10	10	8	2
5	30	.75	3	10	10	10	8	2
6	30	.75	4	10	10	10	8	2
7	40	1	2	8	10	8	6	2
8	40	1	3	8	10	8	6	2
9	40	1	4	8	10	8	6	2
10	55	1	2	6	10	8	4	2
11	55	1	3	6	10	8	4	2
12	55	1.25	4	6	10	8	4	2
13	70	1	2	4	8	4	2	2
14	70	1.25	3	4	8	4	2	2
15	70	1.25	4	4	8	4	2	2
16	85	1.25	2	3	8	3	2	2
17	85	1.25	3	3	8	3	2	2
18	85	1.25	4	3	8	3	2	2
19	95	1.25	3	2	8	2	2	2
20	95	1.50	4	2	8	2	2	2
21	130	1.50	3	1	6	2	2	2
22	130	1.50	4	1	6	2	2	2
23	150	2	3	1/0	6	2	1/0	2
24	150	2	4	1/0	6	2	1/0	2
25	175	2	3	2/0	6	2	2/0	2
26	175	2	4	2/0	6	2	2/0	2
27	200	2	3	3/0	6	2	2/0	2
28	200	2.50	4	3/0	6	2	2/0	2
29	230	2.50	3	4/0	4	2	2/0	2
30	230	2.50	4	4/0	4	2	2/0	2
31	255	2.50	3	250	4	1	2/0	2
32	255	2.50	4	250	4	1	2/0	2
33	310	3	3	350	3	1/0	3/0	2
34	310	3	4	350	3	1/0	3/0	2
35	380	3.50	3	500	3	3/0	3/0	2
36	380	4	4	500	3	3/0	3/0	2
37	400	2 EA 2	3	3/0	3	3/0	3/0	2
38	400	2 EA 2.50	4	3/0	3	3/0	3/0	2
39	510	2 EA 2.50	3	250	1	4/0	3/0	2
40	510	2 EA 3	4	250	1	4/0	3/0	2
41	620	2 EA 3	3	350	1/0	4/0	3/0	2,4
42	620	2 EA 3	4	350	1/0	4/0	3/0	2,4
43	760	2 EA 3.50	3	500	1/0	4/0	3/0	2,4
44	760	2 EA 4	4	500	1/0	4/0	3/0	2,4
45	855	3 EA 3	3	300	2/0	4/0	3/0	2,4
46	855	3 EA 3	4	300	2/0	4/0	3/0	2,4
47	1000	3 EA 3.50	3	400	2/0	4/0	3/0	4
48	1000	3 EA 3.50	4	400	2/0	4/0	3/0	4
49	1140	3 EA 4	3	500	3/0	4/0	3/0	4
50	1140	3 EA 4	4	500	3/0	4/0	3/0	4
51	1240	4 EA 3	3	350	3/0	4/0	3/0	4
52	1240	4 EA 3	4	350	3/0	4/0	3/0	4
53	1675	5 EA 3.50	4	400	4/0	4/0	4/0	4
54	2010	6 EA 3.50	4	400	250	250	250	4
55	2660	7 EA 4	4	500	350	350	350	4
56	3040	8 EA 4	4	500	500	500	500	4
57	4180	11 EA 4	4	500	500	500	500	4
58		3 EA 4					6	
59		6					6	
60		8 EA 4					6	

CONDUCTOR AND CONDUIT SCHEDULE NOTES

- CONDUCTORS SHOWN ARE SHOWN FOR EACH CONDUIT WITH MODIFICATIONS AS NOTED IN NOTE 5. ALL CONDUCTORS SHOWN ARE THWN UNLESS OTHERWISE NOTED.
- PROVIDE EQUIPMENT GROUND CONDUCTORS PER TABLE 250-122 WHEN CIRCUIT BREAKERS ARE SIZED GREATER THAN AMPERE RATING SHOWN IN TABLE.
- PROVIDE #10 NEUTRALS FOR MULTIWIRE BRANCH CIRCUITS SERVING COMPUTERS.
- GROUND (G) CONDUCTOR MAY BE DELETED ON SERVICE ENTRANCE CONDUCTORS.
- WHEN SYMBOL SUBSCRIPT INDICATES 'IG', INCLUDE 'IG' OR INSULATED GROUND CONDUCTOR SCHEDULED ALONG WITH GROUND OR EQUIPMENT GROUND CONDUCTOR. WHEN SYMBOL SUBSCRIPT INDICATES 'SE', SUBSTITUTE 'SE' CONDUCTOR FOR 'G' CONDUCTOR SHOWN WHICH IS SIZED FOR THE GROUNDING OF THE SECONDARY OF THE SEPARATELY DERIVED SYSTEMS.
- RACEWAY ONLY. CONDUCTORS PROVIDED BY UTILITY.



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Murray, Utah 84123
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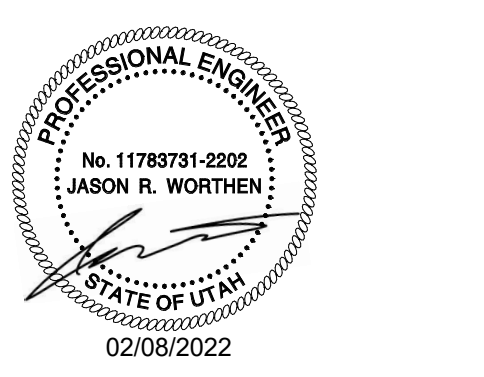
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Schematic Design Dec 8, 2021

**ONE-LINE
DIAGRAM**

EP601



INTERIOR LIGHTING FIXTURE SCHEDULE															ABBREVIATIONS					GENERAL NOTES									
MOUNTING B - BASE C - CEILING F - FLANGE G - GRID P - PENDANT PL - POLE R - RECESSED S - SURFACE W - WALL					LUMINAIRE OPTIONS ARHR - AIR RETURN AND HEAT REJECTION DL - DAMP LOCATION EDC - EARTHQUAKE CLIPS F - FUSING HLD - HINGED AND LATCHED DOOR HS - HOUSE SIDE SHIELD PS - PHOTOCELL SWITCH QRS - QUARTZ RESTRIKE ST - STATIC WG - WIRE GUARD WL - WET LOCATION					FINISH MW - MATTE WHITE BL - BLACK SL - SILVER CL - CLEAR PW - PAINTED WHITE EA - EXTRUDED ALUMINUM S - STEEL GS - GALVANIZED STEEL C - CAST CBA - COLOR BY ARCHITECT SCBA - STANDARD COLOR BY ARCHITECT CCA - CUSTOM COLOR BY ARCHITECT FS - MEETS FEDERAL STANDARD 209D TP - THERMALLY PROTECTED FL - FLUSH R - REGRESS M - MITERED					DIFFUSER/LENS #A - ACRYLIC #THICK #GA - ACRYLIC #THICK (OPAL) GC - GLASS (CLEAR) GO - GLASS (OPAL) GF - GLASS (FROSTED) SGL - SOFT GLOW LENS HPL - HIGH PERFORMANCE LENS DO - DROP OPAL COL - CONVEX GLASS LENS S - SATIN LENS					REFLECTOR OP - NONE/OPEN SP - SPECULAR SS - SEMI-SPECULAR D - DIFFUSE (WHITE ENAMEL) SC - SPECULAR (COLORED) PR - PRISMATIC FDR - FULL DEPTH REFLECTOR DS - DIFFUSE (SEMI SPECULAR) SILVER LI - LOW IRESCENT IR - IRESCENT SL - SILVER GL - GOLD CA - CLEAR ALZAK					1. PROVIDE UNIT PRICES AND FIXTURE BRAND SELECTED FOR ADD/DELETE CHANGES FOR EACH FIXTURE TYPES SHOWN WITHIN 48 BUSINESS HOURS OF THE BID DATE. FAILURE TO COMPLY WITH THIS REQUIREMENT MAY DISQUALIFY THE PRODUCTS AND EMPOWER THE ENGINEER TO DETERMINE FAIR VALUE FOR FIXTURE AND INSTALLATION CHANGES, WITHOUT FURTHER INPUT FROM THE CONTRACTOR OR INSTALLER. 2. CONTRACTOR ALLOWANCE PRICES ARE ACCURATE WHEN THIS JOB WAS SPECIFIED. CONTRACTOR AND ELECTRICAL DISTRIBUTOR SHALL VERIFY THIS ALLOWANCE AND REPORT ANY PROBLEMS TO THE ENGINEER BEFORE THE BID. ALLOWANCE PRICE MAY OR MAY NOT INCLUDE LAMP(S) OR FREIGHT AS NOTED, AND DO NOT INCLUDE ANY TAXES. 3. SUBSTITUTIONS AND/OR EQUAL FIXTURES MUST RECEIVE APPROVAL PRIOR TO BIDDING. THEY MUST BE SUBMITTED TO THE ENGINEER NO LESS THAN 2 WEEKS PRIOR TO BID OPENING. 4. SAMPLES MUST BE PROVIDED FOR ANY AND ALL FIXTURES UPON A/E REQUEST PRIOR TO RELEASING FIXTURES. 5. ALL FIXTURES SHALL BE LISTED AND APPROVED FOR THEIR INTENDED USE AND LOCATION. 6. VERIFY THE PROPER MOUNTING KITS OR ACCESSORIES TO FACILITATE INSTALLATION AS SHOWN AT EACH LOCATION ON THE DRAWINGS. 7. COMPLY WITH THE "INTERIOR LIGHTING" SECTION OF THE SPECIFICATIONS. 8. REFER TO SPECIFICATIONS FOR IMPORTANT TECHNICAL REQUIREMENTS FOR LIGHTING FIXTURES, DRIVERS, AND LAMPS. 9. ALL LIGHT FIXTURES TO BE EITHER "DLC" OR "LIGHTING FACTS" LISTED OR TO BE APPROVED BY ARCHITECT/ENGINEER AND OWNER.				
ID	DESCRIPTION	LENGTH	DEPTH	HEIGHT	DIAMETER/APERTURE	MOUNTING	TYPE	COLOR TEMP	CRI	DRIVER CONFIGURATION	VOLTAGE	WATTS	FINISH	FIXTURE LUMENS	DIFFUSER/LENS	REFLECTOR	OPTIONS	NOTES	MANUFACTURER (CATALOG SERIES)										
(DX-2)	6" ROUND, RECESSED LED DOWNLIGHT, SEMI-SPECULAR REFLECTOR, WHITE TRIM FINISH	-	-	-	0" - 6"	CR	LED	3500K		0-10V DIMMING (10%)	120/277	3	-	2000					OPTION 1 GOTHAM (EVO-35/20-6AR-WD-LSS-MVOLT-EZ10)	OPTION 2 LITON (LHALDR25)	OPTION 3 HALO (HC6)								
(E3-1)	X-RAY IN USE SIGN	-	-	-	-	UNV	LED	RED		NO DIMMING	120	3	-	0					ISOLITE (RL-AC-R-U-WH-MTEB-CW - X-RAY IN USE)										

LIGHTING/SPACE CONTROL TYPE SCHEDULE																				
WIRING LEGEND		APPROVED MANUFACTURERS		LIGHTING CONTROL ID		GENERAL NOTES					GENERAL NOTES									
_____ LINE VOLTAGE WIRING - - - - - 0-10V WIRING CATSE CABLING _____ WIRING BY OTHERS ○---○ TMP SEGMENT NETWORK CABLING		1. WATTSTOPPER (BASIS OF DESIGN) 2. NLIGHT 3. HUBBEL BUILDING AUTOMATION 4. GREENGATE		1. # = NUMBER OF ZONES 2. D = DIMMING, S = SWITCHING 3. P = DAYLIGHT PHOTOCELL 4. L = PLUG LOAD CONTROLLER 5. # = INSTANCE		1. COORDINATE INITIAL PROGRAMMING WITH OWNER AND MODIFY CONTROL TIMES AND OPERATION AS REQUESTED BY OWNER. 2. PROVIDE FINE TUNING PROGRAMMING AND ADJUSTMENTS UPON REQUEST BY OWNER WITHIN FIRST 6 MONTHS AFTER SUBSTANTIAL COMPLETION. 3. PROVIDE CUSTOMIZED ENGRAVED PERMANENT BUTTON LABELS ON EACH SWITCH, LABEL TO MATCH BUTTON LABEL ID OR AS DIRECTED BY OWNER. 4. PART NUMBERS SHOWN ARE BASED ON WATTSTOPPER AS THE BASIS OF DESIGN. ALL APPROVED MANUFACTURERS ARE SUBJECT TO MEETING ALL FUNCTIONS AND CAPABILITIES OF THE BASIS OF DESIGN SYSTEM AND PRODUCTS. FAILURE TO MEET THESE SHALL REQUIRE THE CONTRACTOR TO PROVIDE A SYSTEM THAT DOES AT NOT ADDITIONAL COST.					5. REFER TO PLANS FOR LOCATIONS AND QUANTITIES OF DEVICES. 6. INSTALL ONE OF EACH CONTROL TYPE WITH PROGRAMMING, ADJUST, AND OBTAIN OWNERS APPROVAL PRIOR TO PROGRAMMING THE REMAINING CONTROLS. 7. WIRING MAY VARY BETWEEN MANUFACTURERS. CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE REQUIRED WIRING THAT WILL BOTH MEET THE MANUFACTURERS REQUIREMENTS AND MATCH WITH THE SHOWN SYSTEM. 8. PROVIDE COMPLETE SHOP DRAWING SUBMITTALS INCLUDING OCCUPANCY SENSOR LAYOUT AND COVERAGE PATTERNS. PROVIDE ADDITIONAL SENSORS AS REQUIRED FOR 100% COVERAGE OF SPACES WITH OCCUPANCY SENSOR CONTROL.									
ID	DETAIL	LIGHTS ON CONTROL	LIGHTS OFF CONTROL	LIGHTING CONTROL TYPE	DAYLIGHT SENSOR SETTING (FC)	TIME DELAY TO OFF (MIN)	BAS AUX RELAY SIGNAL	PLUG LOAD CONTROLLER	NETWORKED CONTROLS	BUTTON_1	BUTTON_2	BUTTON_3	BUTTON_4	BUTTON_5	BUTTON_6	BUTTON_7	BUTTON_8	BUTTON_9	NOTES	
ZD1		MANUAL & OCCUPANCY	MANUAL OR OCCUPANCY	DIMMING 0-10V	-	15	RELAY CLOSED ON OCCUPANCY			TOGGLE: PRESS: TOP-ON, PRESS: BOTTOM-OFF, HOLD: TOP-RAISE, HOLD: BOTTOM-OFF/LOWER	FUNCTION: PRESS: PRESET SCENE #01 ZONE "a" 75% DIMMING LABEL ID: "PRE #1"	FUNCTION: PRESS: PRESET SCENE #02 ZONE "b" 0% DIMMING LABEL ID: "PRE #2"	FUNCTION: PRESS: SELECT ZONE "a" FOR DIMMING LABEL ID: "ZONE a"	FUNCTION: PRESS: SELECT ZONE "b" FOR DIMMING LABEL ID: "ZONE b"						

CABLE/OUTLET COLOR SCHEDULE	
COLOR	TYPE
BLUE	DATA
BLUE	IP SECURITY CAMERAS
YELLOW	WIRELESS

STATION PATCH CORD SCHEDULE			
(CATEGORY 6A F/UTP CABLES W/RJ-45 CONNECTORS)			
LENGTH (FEET)	COLOR	QUANTITY	UNIT COST (EACH)
7'	BLUE	40% OF TOTAL PORTS IN TDR'S	
10'	BLUE	40% OF TOTAL PORTS IN TDR'S	
15'	BLUE	20% OF TOTAL PORTS IN TDR'S	

WIRELESS PATCH CORD PATCH CORD SCHEDULE			
(CATEGORY 6A F/UTP W RJ45 CONNECTORS)			
LENGTH (METER)	COLOR	QUANTITY	UNIT COST (EACH)
7'	YELLOW	100% OF TOTAL PORTS IN TDR'S	

EQUIPMENT/CABLE LIST

THE ITEMS INDICATED BELOW SHALL NOT BE CONSIDERED AS A "BILL OF MATERIALS". THIS LIST IDENTIFIES ITEMS OF SIGNIFICANCE USED DURING THE DESIGN OF THE CABLING INSTALLATION. WHERE THE ITEMS INDICATED ARE ONE PORTION OF AN ASSEMBLY, THE ENTIRE ASSEMBLY SHALL BE PROVIDED UNLESS SPECIFIED OTHERWISE. PROVIDE ALL MISCELLANEOUS HARDWARE AND SUPPORTS WHICH MAY NOT BE LISTED HERE, FOR A COMPLETE INSTALLATION. COMPARE CATALOG NUMBERS WITH DESCRIPTIONS AND NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO BID. IF CATALOG NUMBERS DO NOT MATCH DESCRIPTIONS, THE DESCRIPTIONS TAKE PRECEDENCE. PROVIDE COMPLETE SUBMITTAL FOR APPROVAL PRIOR TO PURCHASING ANY EQUIPMENT OR CABLE. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

SYMBOL	ITEM DESCRIPTION	ACCEPTABLE TYPES
	STATION CABLE, DATA - CATEGORY 6A FUTP RISER, DATA, BLUE	SIEMON 9A6R4-A5-06-R1A
	STATION CABLE, DATA - CATEGORY 6A FUTP PLENUM, WIRELESS, YELLOW	SIEMON 9A6P4-A5-05-R1A
	STATION CABLE, DATA - CATEGORY 6A FUTP PLENUM, SECURITY, BLUE	SIEMON 9A6P4-A5-06-R1A
	STATION CABLE, DATA - CATEGORY 5E RISER, GREEN VENDOR NETWORK	SIEMON 9C3R4-E2-07-R1A
	DATA OUTLET, SINGLE GANG FACEPLATE, WHITE, 4 POSITION	SIEMON 10GMX-FPS04-02
▽	CATEGORY 6A JACK - DATA, BLUE	SIEMON 26A-S06
	BLANK INSERT, WHITE	SIEMON MX-BL-02
▽ A	DATA OUTLET, SINGLE GANG FACEPLATE, WHITE, 4 POSITION ("A" = ABOVE COUNTER)	SIEMON 10GMX-FPS04-02
	CATEGORY 6A JACK - DATA, BLUE	SIEMON 26A-S06
▽	DATA OUTLET, SINGLE GANG FACEPLATE, WHITE, 3 POSITION	SIEMON 10GMX-FPS04-02
	CATEGORY 6A JACK - DATA, BLUE	SIEMON 26A-S06
▽	DATA OUTLET, SINGLE GANG FACEPLATE, WHITE, 4 POSITION	SIEMON 10GMX-FPS04-02
	CATEGORY 6A JACK - DATA, BLUE	SIEMON 26A-S06
G	DATA OUTLET, SURFACE MOUNT BOX, WHITE, 2 POSITION	SIEMON MX-SMZ2-02
	CATEGORY 6A JACK - DATA, BLUE	SIEMON 26A-S06
C	DATA OUTLET, SURFACE MOUNT BOX, WHITE, 3 POSITION	SIEMON MX-SMZ2-02
	CATEGORY 6A JACK - DATA, BLUE	SIEMON 26A-S06
(n)	DATA OUTLET, SURFACE MOUNT BOX, WHITE, 2 POSITION	SIEMON MX-SMZ2-02
	CATEGORY 6A JACK - WIRELESS, YELLOW	SIEMON 26A-S05
	DATA OUTLET, SURFACE MOUNT BOX, WHITE, 1 POSITION	SIEMON MX-SMZ1-02
	CATEGORY 6A JACK - SECURITY, BLUE	SIEMON 26A-S06
SPP1	48 PORT, TRU ANGLE PATCH PANEL, WITH OUTLETS	SIEMON 26AS-P4-48
HWM	HORIZONTAL WIRE MANAGERS, 4RU	PANOLIT NCM-PAEF4
WVM	VERTICAL WIRE MANAGERS, DOUBLE SIDED, BLACK, 10" WIDE x 8'-0" HIGH	CHATSWORTH 40006-715
	EQUIPMENT RACK 19" WIDE x 8'-0" HIGH, 52RU, BLACK	CHATSWORTH 55053-715
	CABLE RUNWAY - 24", BLACK WITH ALL REQUIRED MOUNTING ACCESSORIES	CHATSWORTH 10250-724
	BUTT SPLICE KIT, BLACK	CHATSWORTH 11301-701
	JUNCTION SPLICE KIT, BLACK	CHATSWORTH 11302-701
	FOOT KIT, BLACK	CHATSWORTH 11309-701
	6" CHANNEL RACK TO RUNWAY, BLACK	CHATSWORTH 12409-724
	TRIANGLE BRACKETS, BLACK	CHATSWORTH 11746-724
	END CLOSING KIT, CABLE RUNWAY, BLACK	CHATSWORTH 11700-724
	WALL ANGLE SUPPORT KIT, CABLE RUNWAY, BLACK	CHATSWORTH 11421-724
	CABLE RUNWAY ELEVATION KIT, 6"	CHATSWORTH 10596-706
	CABLE RUNWAY RADIUS DROP	CHATSWORTH 12100-712
	PLYWOOD BACKBOARD, 4' X 8', GRADE AC, FIRE TREATED & PAINTED	
	TELECOMMUNICATIONS MAIN GROUNDING BUS BAR	
	TELECOMMUNICATIONS GROUNDING BUS BAR	

NOTE: ALL RACKS, LADDER, PATCH PANELS AND ACCESSORIES SHALL BE BLACK IN COLOR.

GENERAL PROJECT NOTES

- UNLESS OTHERWISE NOTED, INSTALL ALL CABLE INSIDE RACEWAY SYSTEMS. WHERE RACEWAY SYSTEMS HAVE NOT BEEN PROVIDED OR SPECIFIED, INSTALL CABLE THROUGH THE SPECIFIED "CADDY" CLIPS AT THE MINIMUM INTERVALS IDENTIFIED IN THE SPECIFICATIONS. SUPPORT "CADDY" CLIPS DIRECTLY FROM THE BUILDING STRUCTURE, NOT FROM OTHER BUILDING SYSTEM SUPPORT WIRES OR CABLE.
- PROVIDE PLENUM RATED CABLE IN ALL AIR PLENUMS. IF A PLENUM RATED CABLE IS NOT SPECIFIED, PROVIDE THE PLENUM RATED EQUIVALENT TO THE SPECIFIED CABLE.
- LABEL ALL CABLE INSTALLED UNDER THIS CONTRACT REGARDLESS OF LENGTH.
- THE EQUIPMENT LABELING IDENTIFIED ON DETAILS IN THESE DRAWINGS ARE EXAMPLES ONLY OF THE ACTUAL LABELING WHICH IS REQUIRED AS PART OF THIS CONTRACT. PRIOR TO FABRICATION, SUBMIT THE NOMENCLATURE FOR ALL LABELS TO THE OWNER FOR REVIEW. THIS REQUIREMENT INCLUDES BUT IS NOT LIMITED TO ALL CABLE LABELING, AND ALL EQUIPMENT LABELING.
- IF OUTLET IS TERMINATED IN CEILING SPACE, LABEL THE T-BAR GRID WITH THE OUTLET NUMBER FOR EASY LOCATION AND IDENTIFICATION.
- GROUND ALL EQUIPMENT RACKS INSTALLED UNDER THIS CONTRACT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS.
- FOR EVERY CABLE PULL SPECIFIED, COIL 15' OF EXCESS CABLE AT THE STATION END FOR FUTURE USE. NEATLY COIL 15' ABOVE THE CEILING OR BELOW FLOOR WHERE APPLICABLE.
- PROVIDE THE QUANTITY OF PATCH PANELS REQUIRED +20% FOR THE TOTAL DATA OUTLETS SHOWN ON FLOOR PLANS FOR THE PARTICULAR LEVEL.
- RACK SPACE ALLOCATION SHOULD BE FOLLOWED PER DRAWINGS. IF YOU HAVE A SYSTEM THAT HAS NOT RACK ALLOCATION PLEASE CALL BOE SAUSED AT 801-707-3805.
- ALL DATA LOCATIONS ARE NOT SHOWN IN ET SHEETS. REFER TO ENLARGED POWER PLANS FOR DATA LOCATIONS IF NOT SHOWN ON ET SHEETS.

ABBREVIATIONS

NOTE: ALL ABBREVIATIONS MAY NOT BE USED.

A	AUGMENTED
CAT	CATEGORY
E	ENHANCED
EA	EACH
ER	EQUIPMENT ROOM
FPP	FIBER PATCH PANEL
GIG	GIGA HERTZ
HWM	HORIZONTAL WIRE MANAGEMENT
NIC	NOT IN CONTRACT
OE	OWNER ELECTRONICS
PNM	PLENUM
PR	PAIR
PS	POWER SUPPLY
RPP	RISER PATCH PANEL
SPP	STATION PATCH PANEL
TC	TELECOMMUNICATIONS ROOM
TYP	TYPICAL
WVM	VERTICAL WIRE MANAGEMENT

DEFINITIONS

NOTE: ALL DEFINITIONS MAY NOT BE USED.

INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE. NO LIMITATION ON LOCATION IS INTENDED.

DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", "AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.

APPROVE: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.

FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."

INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."

PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."

INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE OPERATIONS THEY ARE ENGAGED TO PERFORM.

ELECTRONIC SYSTEMS: THE TERM "ELECTRONIC SYSTEMS" IS USED TO DESCRIBE ALL LOW VOLTAGE SYSTEMS GENERALLY REFERRED TO AS "SPECIAL SYSTEMS". THESE SYSTEMS INCLUDE BUT ARE NOT NECESSARILY LIMITED TO ALL SYSTEMS WHICH UTILIZE VOLTAGES OF LESS THAN 71 VOLTS SUCH AS SOUND SYSTEMS, VIDEO SYSTEMS, TV SYSTEMS, SECURITY SYSTEMS, VOICE AND DATA CABLING SYSTEMS, ETC...



NJRA Architects, Inc.
5272 S. College Drive, Suite 104
Murray, Utah 84123
801.364.9259
www.njraarchitects.com



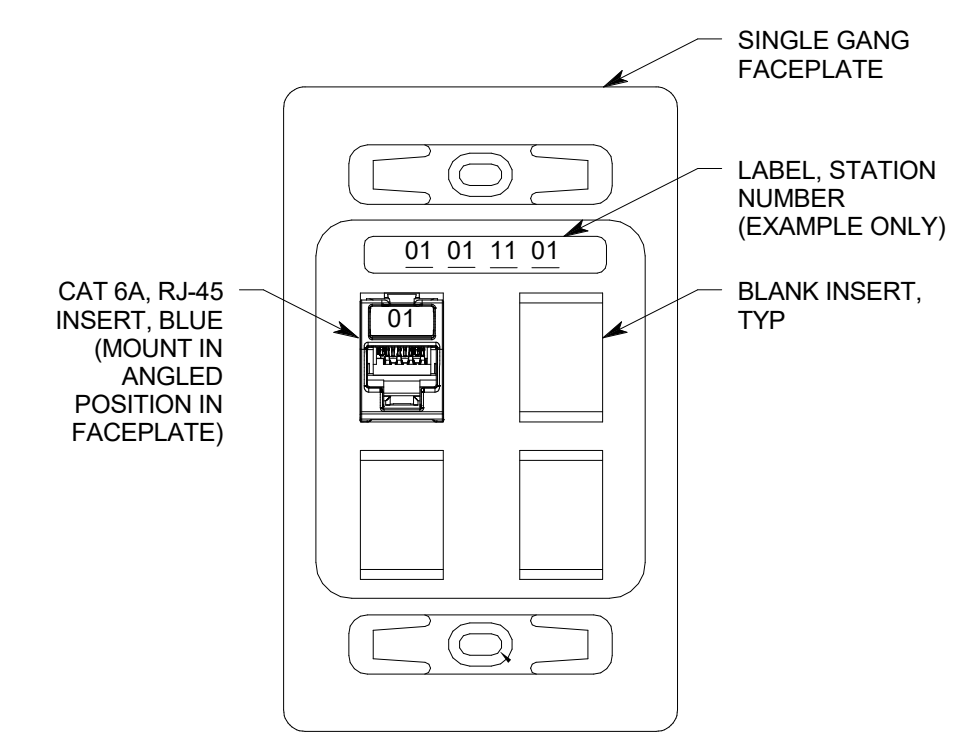
SPECTRUM ENGINEERS
324 S. State St., Suite 400
Salt Lake City, UT 84111
801-478-7077
801-328-5151
fax: 801-328-5155
www.spectrum-engineers.com

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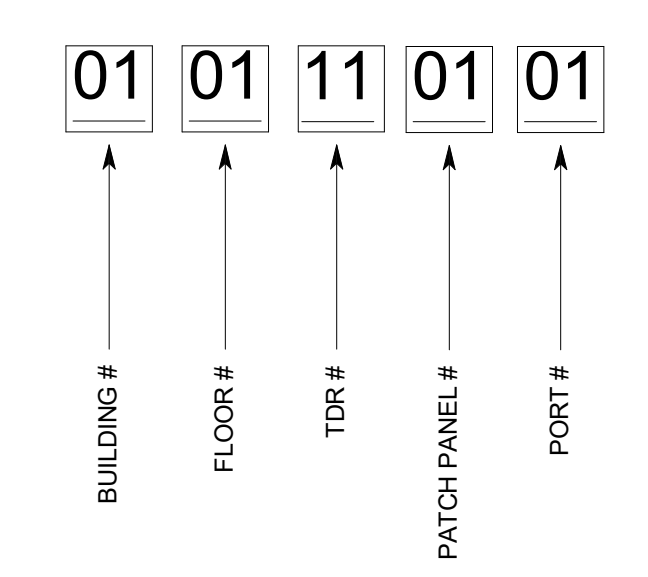
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Schematic Design Dec 8, 2021

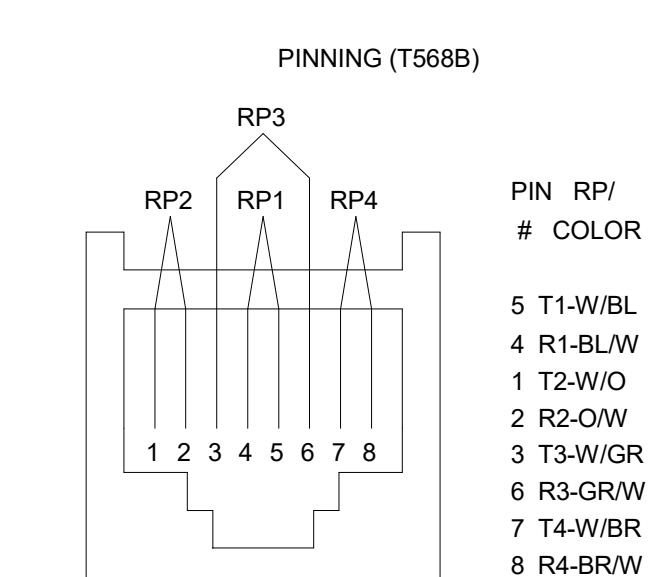
TELECOM
SYMBOLS
AND
GENERAL
NOTES
ET001



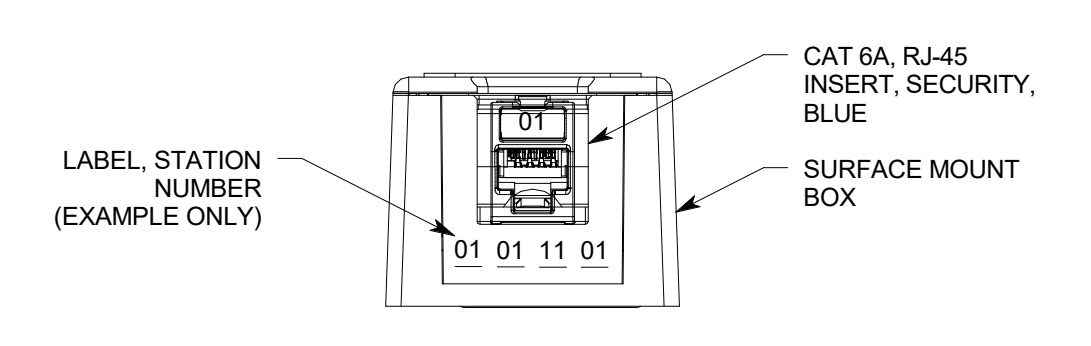
9 TYPICAL 1-PORT WALL DATA OUTLET
NO SCALE



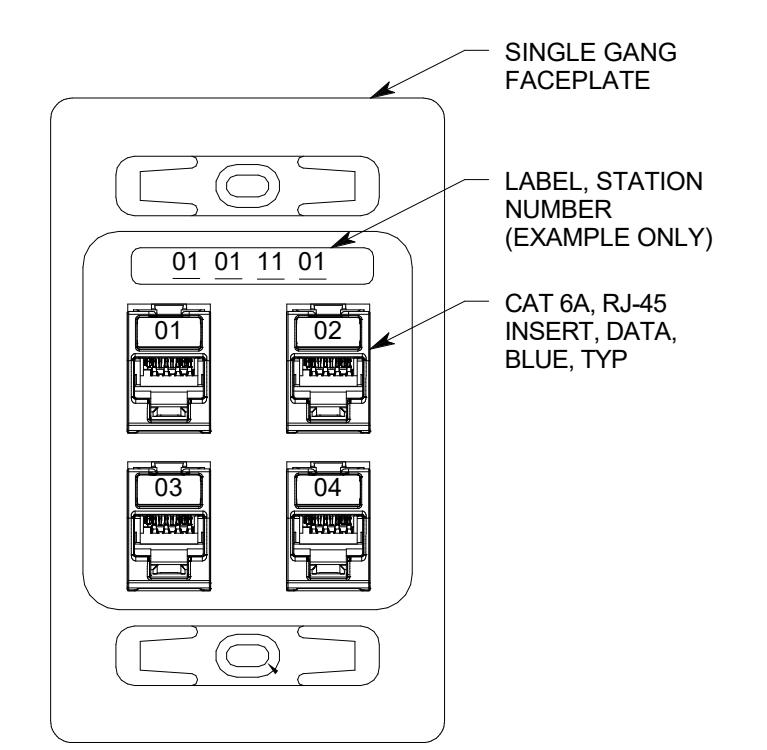
10 CABLE ID EXAMPLE DETAIL
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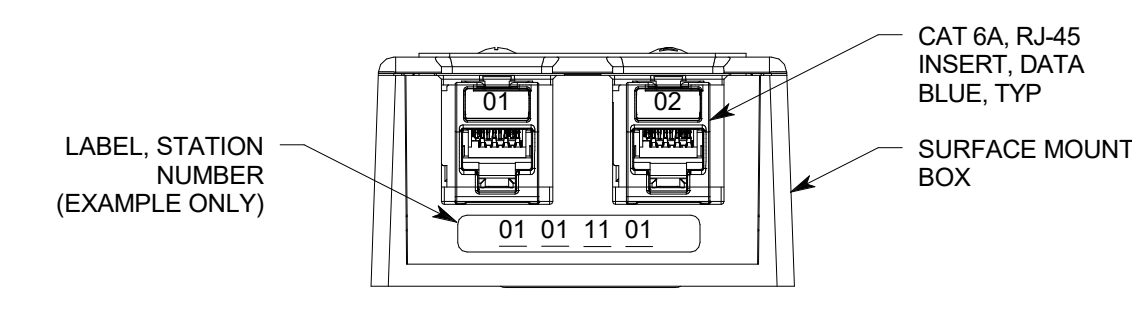
7 TYPICAL VOICE-DATA OUTLET PINNING DETAIL
NO SCALE



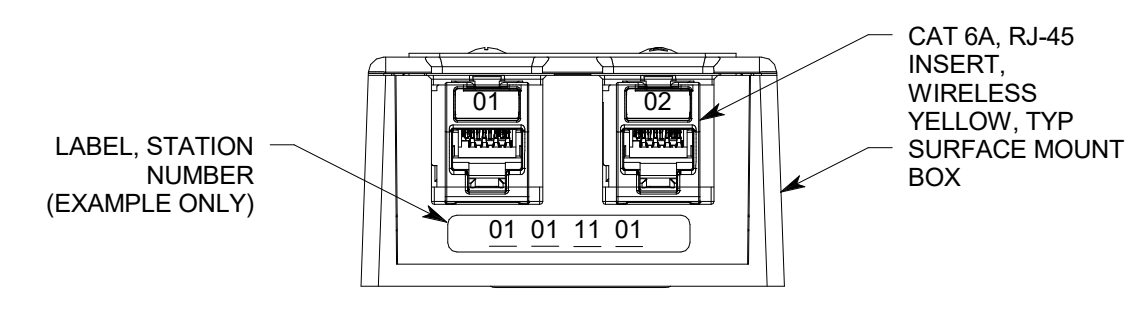
8 TYPICAL 1-PORT CAMERA DATA OUTLET
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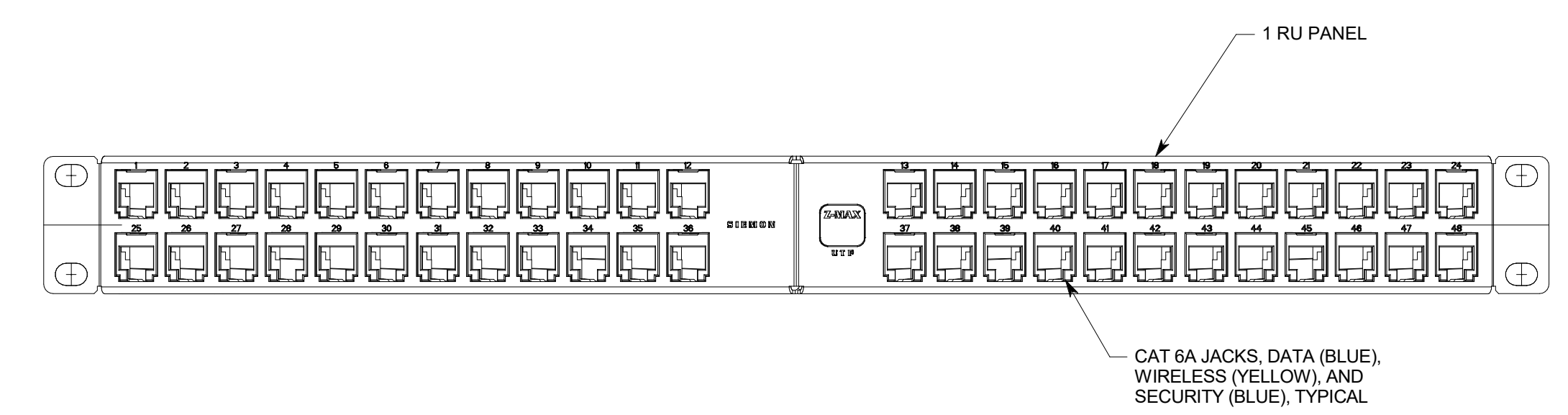
4 TYPICAL 4-PORT WALL DATA OUTLET
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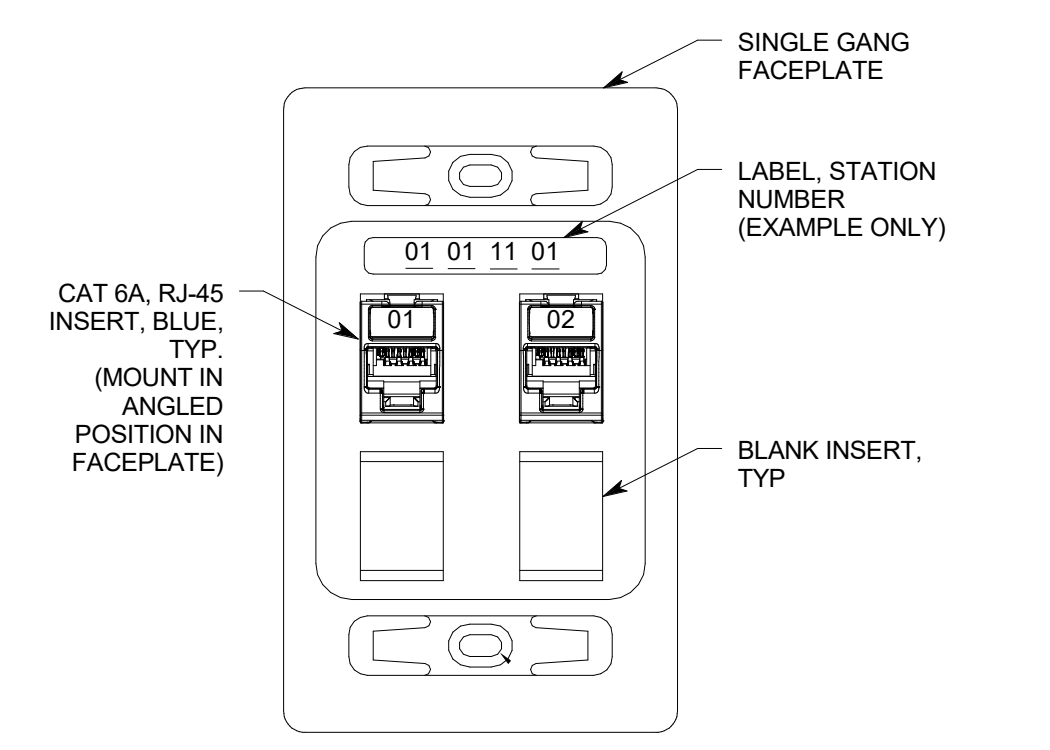
5 TYPICAL 2-PORT CEILING DATA OUTLET
NO SCALE



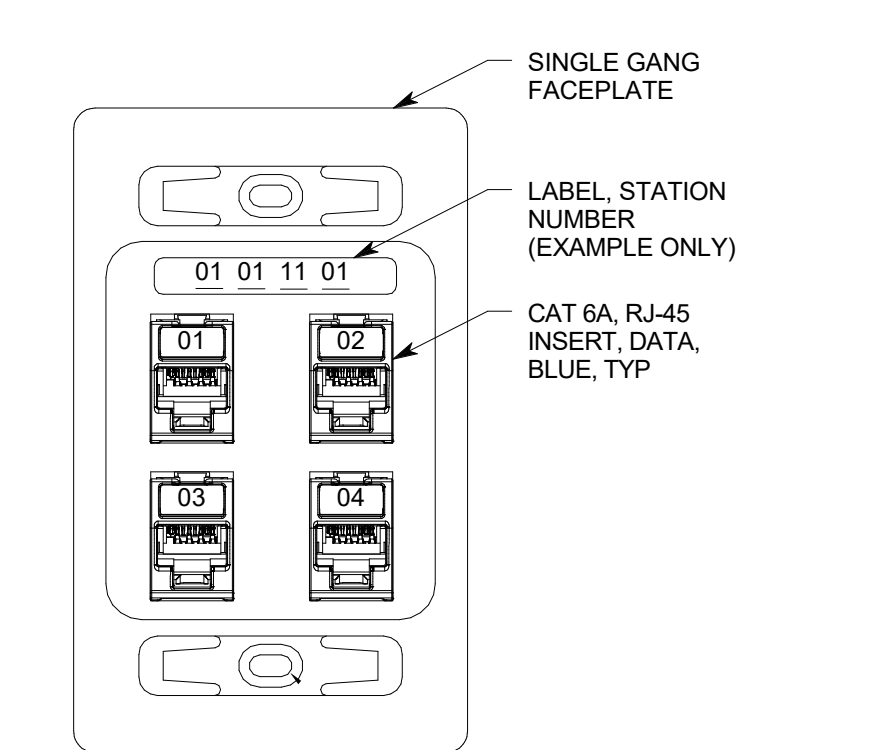
6 TYPICAL 'WAP' CEILING DATA OUTLET
NO SCALE



1 STATION PATCH PANEL, (SPP1)
NO SCALE



2 TYPICAL 2-PORT WALL DATA OUTLET
NO SCALE



3 TYPICAL 4-PORT WALL DATA OUTLET
NO SCALE

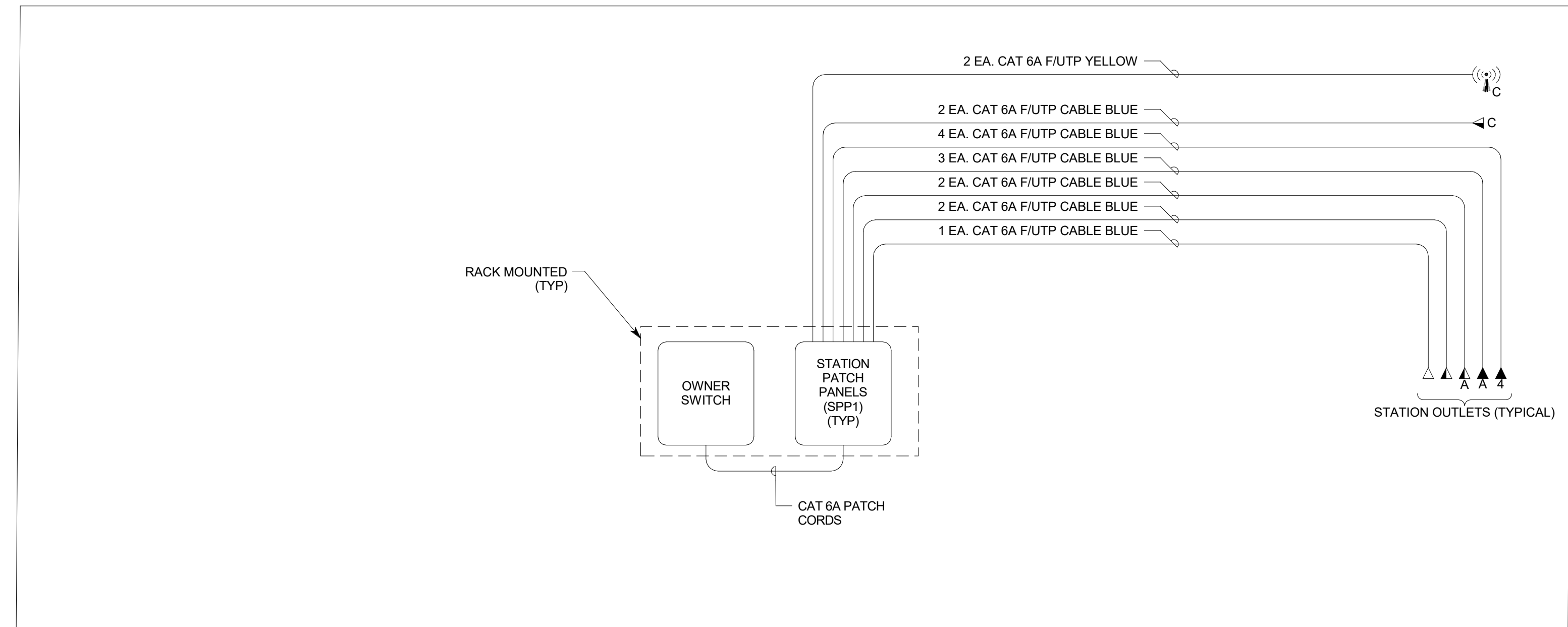
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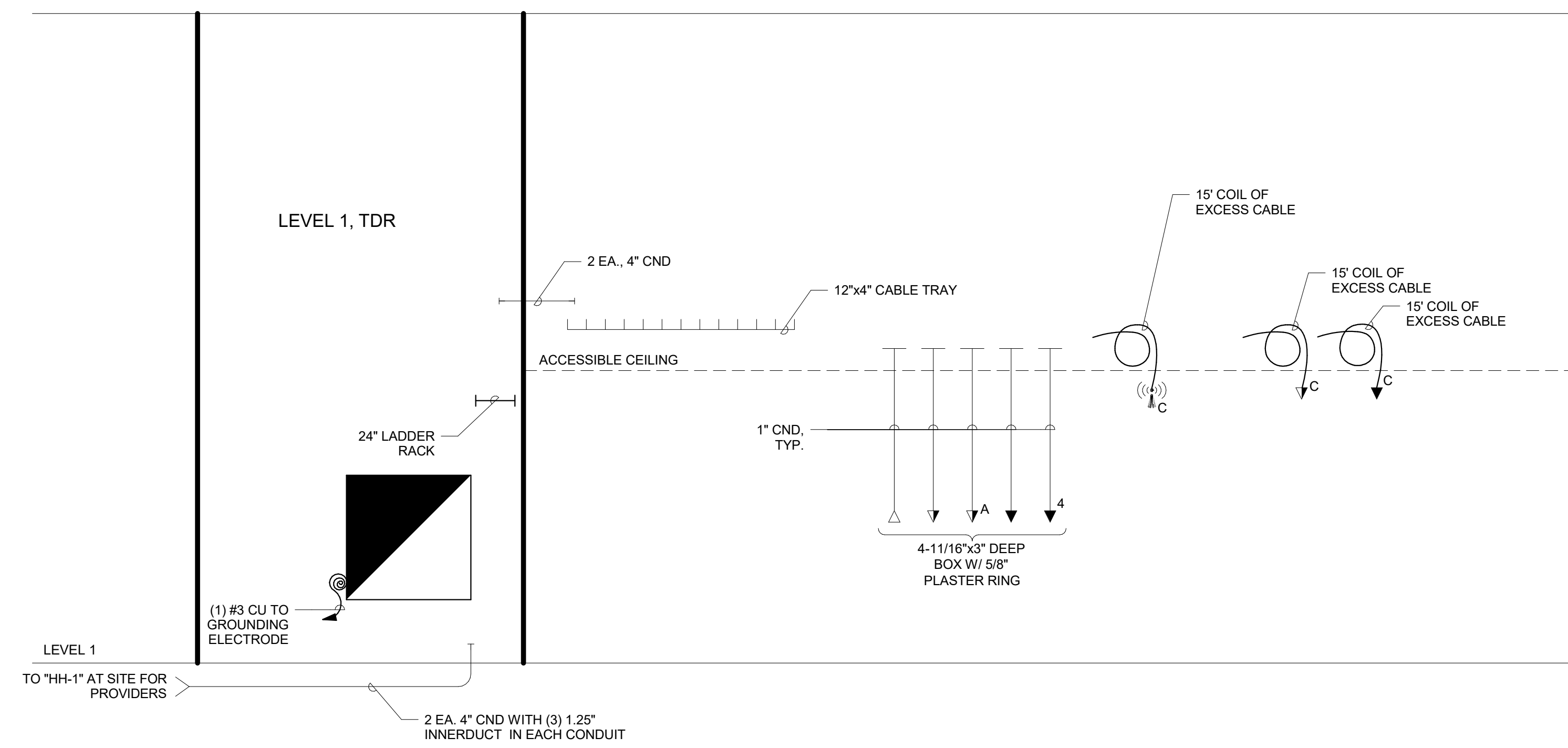
NJRA Project # 21214.00
Schematic Design Dec 8, 2021

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DETAILS

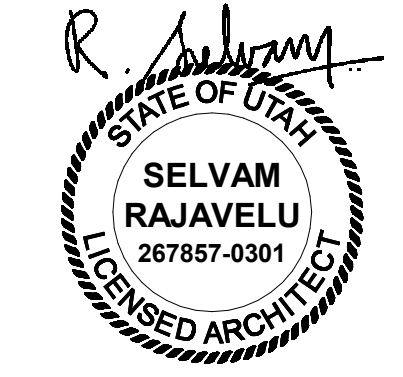
ET501



C4 TELECOM CABLE RISER DIAGRAM
NO SCALE



A4 TELECOM CONDUIT RISER DIAGRAM
NO SCALE



ALL INFORMATION IN THIS DRAWING SET IS PRELIMINARY, SUBJECT TO CHANGE!

		Alta View Hospital Sandy, Utah USA	
		GE Healthcare	
		DEFINIUM TEMPO/TEMPO PRO FINAL STUDY	
		Wendel Larson 801-891-9934 Wendel.larson@ge.com	
REV	DATE	Final DC-328411	MODIFICATIONS
A	24/Jan/2022		
01 - C1			10 - S3 - Structural Details (1)
02 - C2			11 - S4 - Structural Details (2)
03 - A1			12 - E1 - Electrical Notes
04 - A2			13 - E2 - Electrical Layout
05 - A3			14 - E3 - Electrical Elevations
06 - A4			15 - E4 - Details-Interconnections
07 - M1			16 - E5 - Power Requirements
08 - S1			
09 - S2			
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			
GE does not take responsibility for any damages resulting from changes on drawings made by others. Errors may occur by not referring to the complete set of final issue drawing. GE cannot accept responsibility for any damage due to the partial use of GE final issue drawings, however caused. All dimensions are in millimeters unless otherwise specified. Do not scale from printed pdf files. GE accepts no responsibility or liability for defective work due to scaling from these drawings.			
Drawn by	Verified by	Concession	S.O. (GON)
TST	TST	-	2007945133.6
Format	Scale	File Name	Date
A3	1/4"=1'-0"	RAD-M264986-FIN-00-A.DWG	24/Jan/2022
PIM Manual	Rev		
5743002-1EN	3		
Sheet			
01/16			

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 structural 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 conformance 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

Alta View Hospital | DEFINIUM TEMPO/TEMPO PRO | RAD-M264986-FIN-00-A.DWG | - | Rev A | Date 24/Jan/2022 | C2 - Disclaimer - Site Readiness | 02/16

GLOBAL SITE READINESS CHECKLIST (DI)

DOC1809666 Rev. 7	
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.	

CUSTOMER SITE READINESS REQUIREMENTS

- Any deviation from these drawings must be communicated in writing to and reviewed by your local GE 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,
 - Power for drills and other test equipment,
 - Capability for image analysis,
 - Restrooms.
- Provide for refuse removal and disposal (e.g. crates, cartons, packing)
- For CT, MR, PET/CT, and SPECT systems it is required to minimize vibrations within the scan room. It is the customer's responsibility to contract a vibration consultant/engineer to implement site design modifications to meet the GE vibration specification. Refer to the system preinstallation manual for vibration specifications.

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.
In-use: less than 65 dBA
Stand-by: less than 60 dBA

ALTITUDE AND ATMOSPHERIC PRESSURE
Maximum height above sea level: 3000m [9843 ft]
Minimum depth below sea level: -30m [-98 ft]
Maximum atmospheric pressure: 106 kPa
Minimum atmospheric pressure: 70 kPa
Allowable in-use rate of change: <1.8 kPa/hour
Allowable storage rate of change (equipment in original shipping containers): <76 kPa/hour

Alta View Hospital | DEFINIUM TEMPO/TEMPO PRO | RAD-M264986-FIN-00-A.DWG | Rev A | Date 24/Jan/2022 | A1 - General Notes | 03/16

LEGEND					
BY	ITEM	DESCRIPTION	MAX HEAT OUTPUT (btu)*	WEIGHT (lbs)	MAX HEAT OUTPUT (W)*
A	1	Patient Table	-	1367	620
A	2	System Cabinet	-	705	320
A	3	Standard Wall Stand	-	624	284
A	4	Image Hanging Barrier	-	120	54.5
A	5	Access Point	-	1.3	0.6
A	6	Grid Holder	-	30.4	13.8
A	7	Operators Console	-	56.6	25.7
A	8	Cable Chain Support	-	-	-
A	9	10' 4" Longitudinal Stationary Rail for OTS	-	138	63
A	10	Longitudinal Drive Belt and Anchor Rails	-	73.3	33.3
A	11	OTS with 3in Bridge	-	1437	652
B	12	Main Disconnect Panel	-	-	-
A	13	Partial UPS	-	76	34.5
A	14	Detector Bin (Wall mounted)	-	26	11.8
E	15	Minimum opening for equipment delivery is 36 in. w x 66.9 in. h, contingent on a 96 in. corridor width (Note: Image Paste option requires an 80.9 in H opening)	-	-	-
E	16	Counter top for equipment- provide grommeted openings as required to route cables	-	-	-
E	17	Control wall to ceiling with lead glass viewing window	-	-	-
E	18	Counter top with sink and base cabinets	-	-	-
E	19	Cabinets	-	-	-
E	20	Med gas	-	-	-

*Refer to heat dissipation detail on page M1 for system heat load information

Applications

The chart shows the application possible to perform with the present equipment positioning, however the sales contract may not include it.

Auto Image Pasting at Wall Stand	YES
----------------------------------	-----

The following shots are NOT available in this layout

Rear to front cross table shot

EXAM ROOM HEIGHT	
Finished ceiling height	9'-0"

For Accessory Sales: (866) 281-7545 Options 1, 2, 1, 2 or mail to: gehealthcareaccessories@ge.com

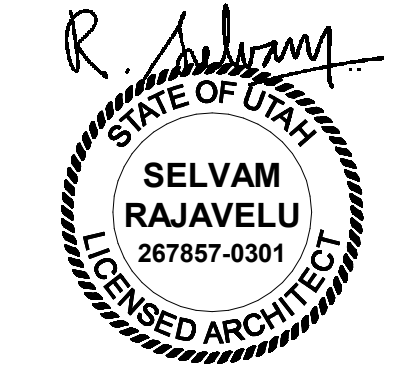
Alta View Hospital | DEFINIUM TEMPO/TEMPO PRO | RAD-M264986-FIN-00-A.DWG | 1/4"=1'-0" Rev A | Date 24/Jan/2022 | A2 - Equipment Layout | 04/16

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Alta View Hospital
X-Ray Replacement

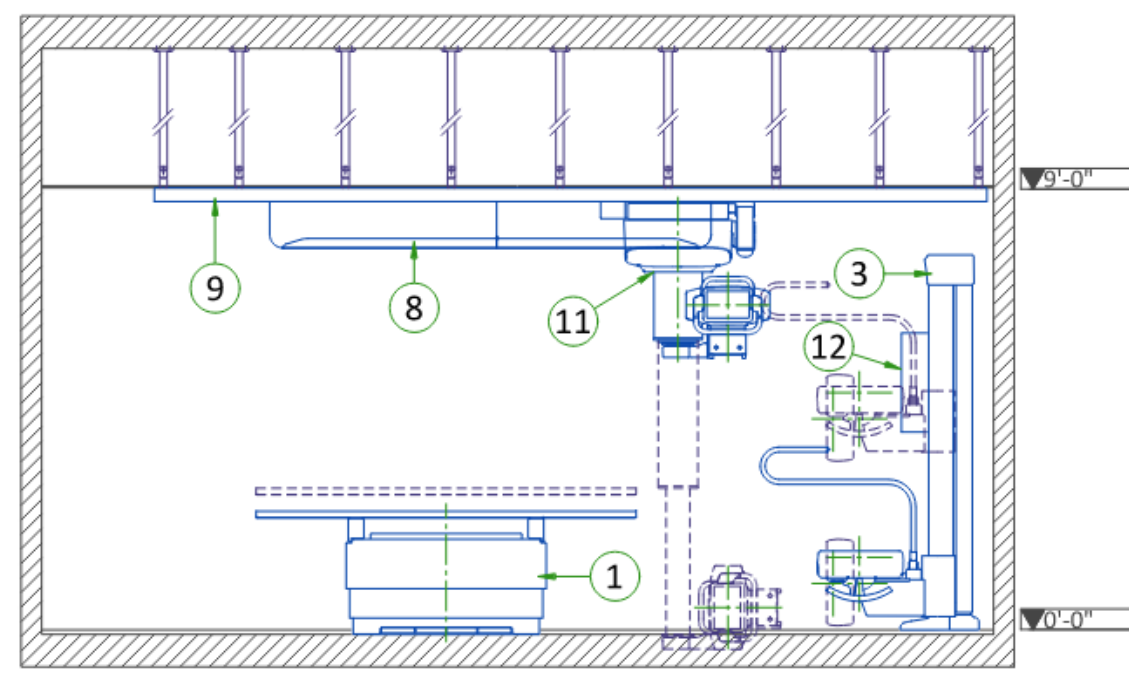
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FRONT VIEW A-A'



EXAM ROOM CEILING HEIGHTS

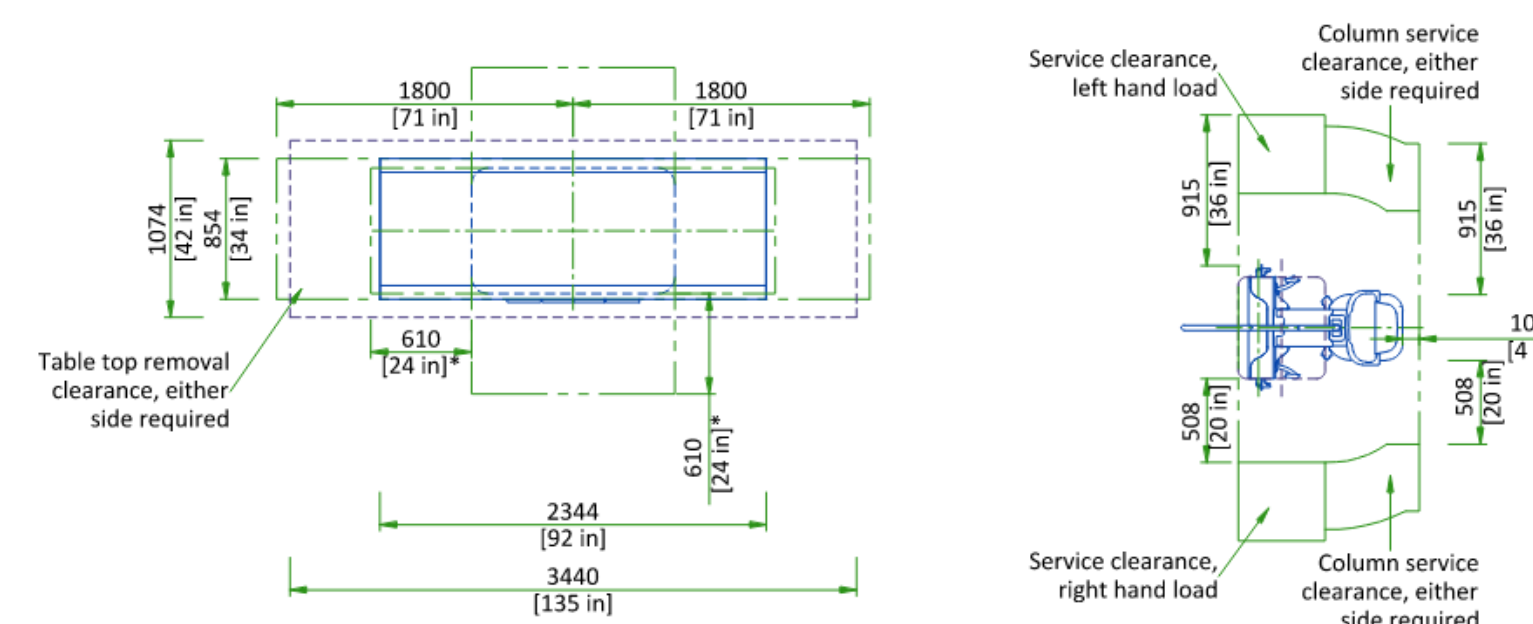
SYSTEM CONFIGURATION	WALLSTAND POSITION	SPECIFICATION	CEILING HEIGHT
2m or 3m Bridge	Any	Recommended	2850 mm [9'-4"]
Table + Extended WS	Foot	Range	2715-2887 mm [8'-11" to 9'-5"]
	Head	Range	2587-2887 mm [8'-6" to 9'-5"]
Table + Standard WS	Foot with OTS column 180°	Range	2587-2887 mm [8'-6" to 9'-5"]
	Head	Range	2845-2887 mm [9'-4" to 9'-5"]
Table + Non-tilting WS	Foot or rear	Range	2587-2687 mm [8'-6" to 8'-10"]
	Front or rear	Range	2715-2887 mm [8'-11" to 9'-5"]

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

ADAPTER	APPLICABLE CEILING HEIGHT
Long (standard)	2587-2687 mm [8'-6" to 8'-10"]
Medium	2687-2787 mm [8'-10" to 9'-2"]
Short	2787-2887 mm [9'-2" to 9'-5"]

CLEARANCE AREAS

PERFORMANCE TABLE WITH STANDARD WALLSTAND



*Recommended service access clearance is 915 mm [3 ft].

SCALE 1:50

DELIVERY

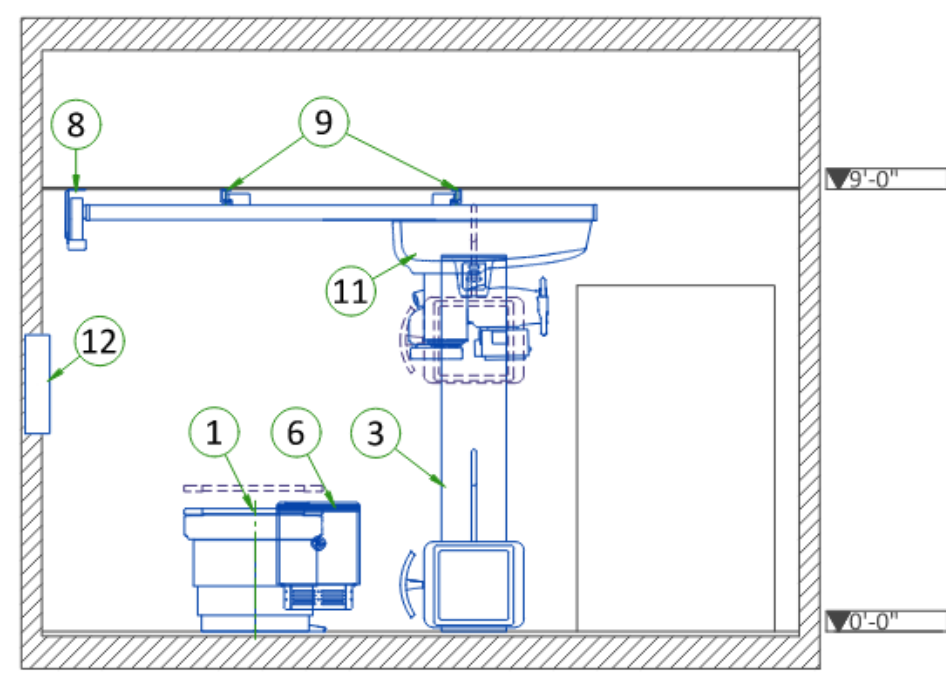
THE CUSTOMER/CONTRACTOR SHOULD:

- Provide an area adjacent to the installation site for delivery and unloading of the GE equipment.
- Ensure that the dimensions of all doors, corridors, ceiling heights are sufficient to accommodate the 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 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 WITH DOLLY TRANSPORT EQUIPMENT

EQUIPMENT	DIMENSIONS		WEIGHT	
STANDARD WALLSTAND	LENGTH	2111 mm 83.1 in	464 kg + dolly	1023 lbs + dolly
	WIDTH	911 mm 35.9 in		
	HEIGHT	1860 mm 73.2 in		
PERFORMANCE TABLE	LENGTH	2400 mm 94.5 in	440 kg + dolly	970 lbs + dolly
	WIDTH	940 mm 37 in		
	HEIGHT	800 mm 31.5 in		
STATIONARY RAILS (5.79 m) (set of 2 rails)	LENGTH	5920 mm 233 in	62.6 kg+ fixture	138 lbs+ fixture
	WIDTH	178 mm 7 in		
	HEIGHT	76 mm 3 in		
OTS	LENGTH	900 mm 35.4 in	217 kg	478 lbs
	WIDTH	940 mm 37 in		
	HEIGHT	1020 mm 40 in		

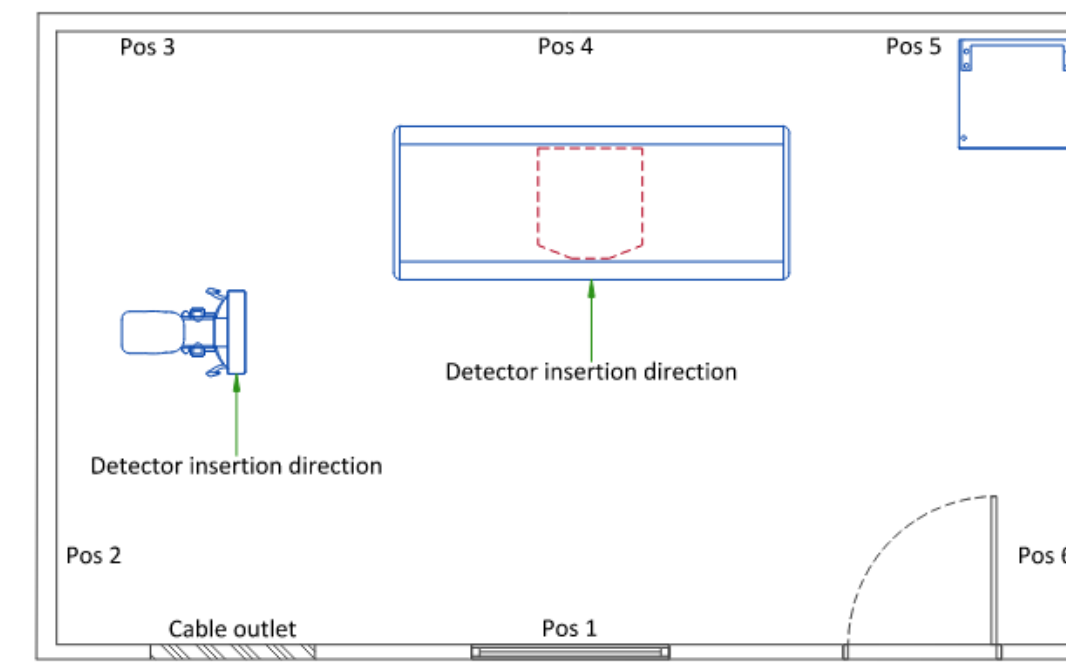
SIDE VIEW B-B'



ACCESS POINT POSITION

AP Wall-mounting position:

- There are 6 different positions available for AP wall-mounting.
- Install at more than 2.5 m [8.2 ft] height from floor level to avoid potential blocking from human or other obstacles.
- One Ethernet cable to Magic PC and one power cable to system cabinet are connected on the back of the AP.
- Use wall mount adapter included with AP.
- AP is only provided for wireless system, it is not included in Non Wireless Configuration system.



TEMPERATURE AND HUMIDITY SPECIFICATIONS

IN-USE CONDITIONS

	EXAM ROOM		CONTROL ROOM	
	Min	Max	Min	Max
Temperature	15°C [59°F]	32°C [89.6°F]	15°C [59°F]	32°C [89.6°F]
Temperature gradient	< 10°C/h [$\leq 50^\circ\text{F/h}$]		< 10°C/h [$\leq 50^\circ\text{F/h}$]	
Relative humidity (1)	20% to 75%		20% to 75%	
Humidity gradient	< 30%/h		< 30%/h	

STORAGE CONDITIONS

Temperature	-5°C [23°F] to +50°C [122°F]
Temperature gradient	< 20°C/h [$\leq 68^\circ\text{F/h}$]
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

SYSTEM POWER CONSUMPTION	HEAT OUTPUT	
	STANDBY	IN-USE
Standby Power	1.0 kW	3412 BTU/hr
Standby Current	2.0 A	
Continuous Power		2.2 kW
Continuous Current		4.5 A

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 groud pad provided by the contractor is required to meet this specification. The maximum pad thickness is 6.3 mm (0.25 in).

CEILING REQUIREMENTS

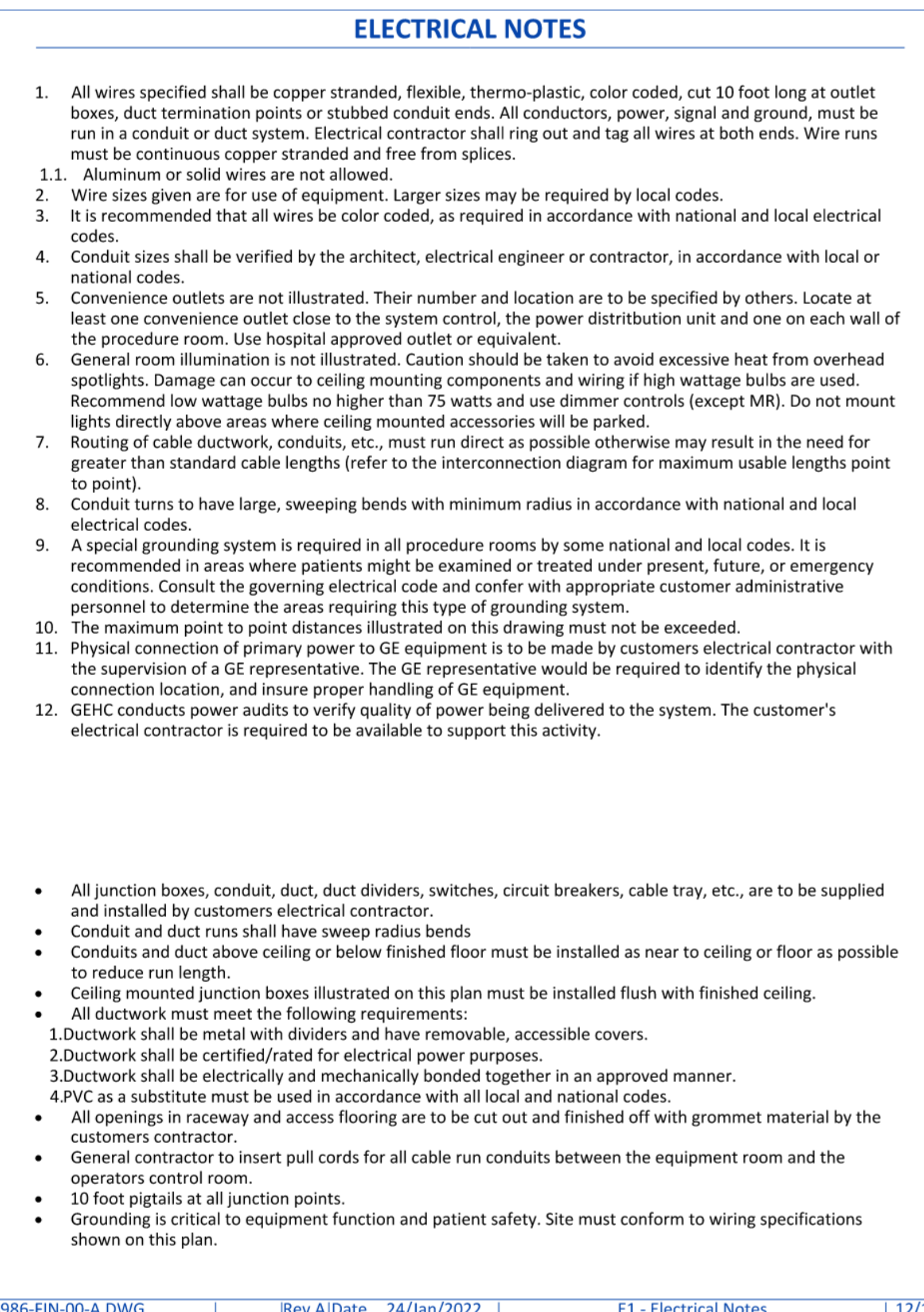
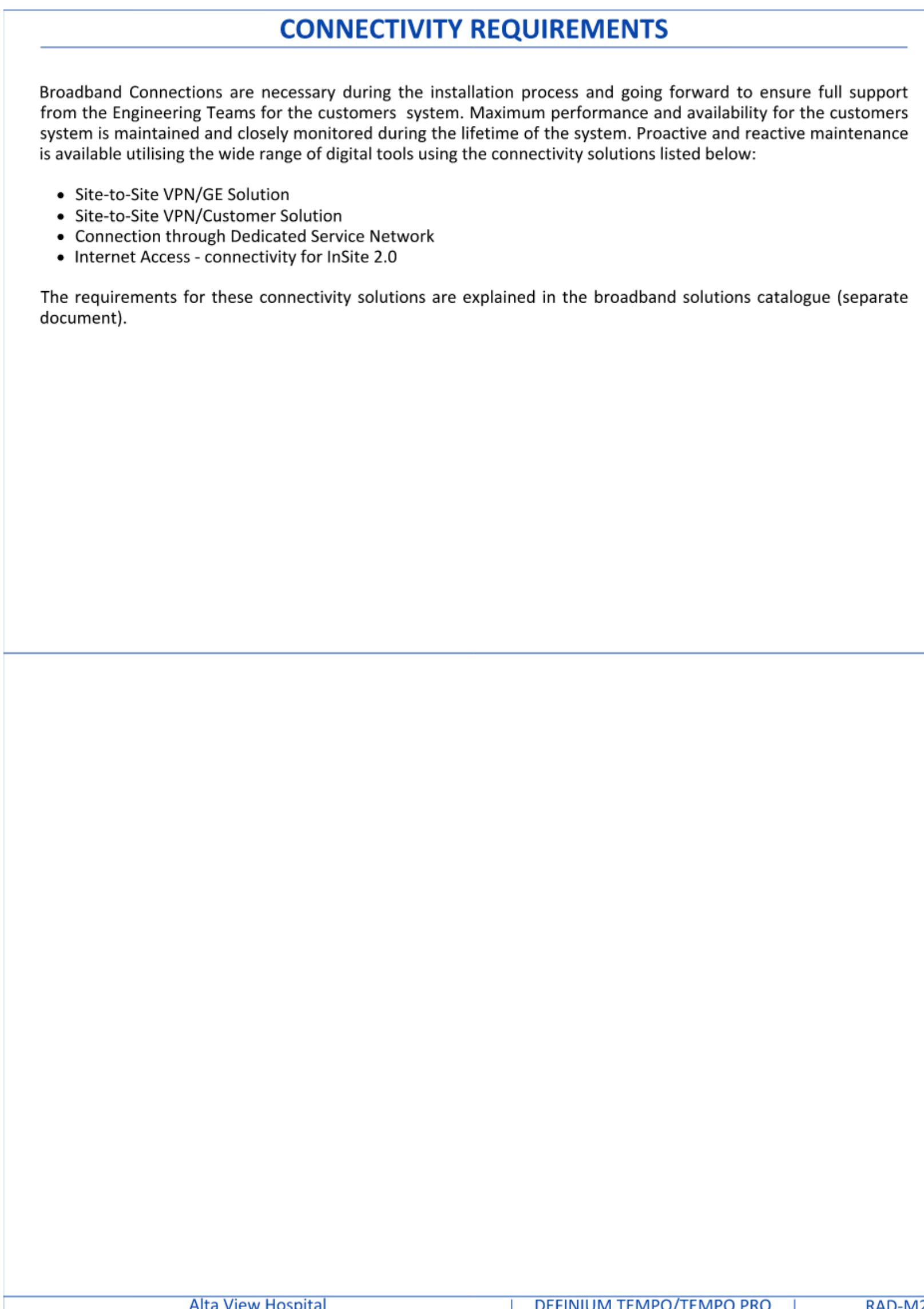
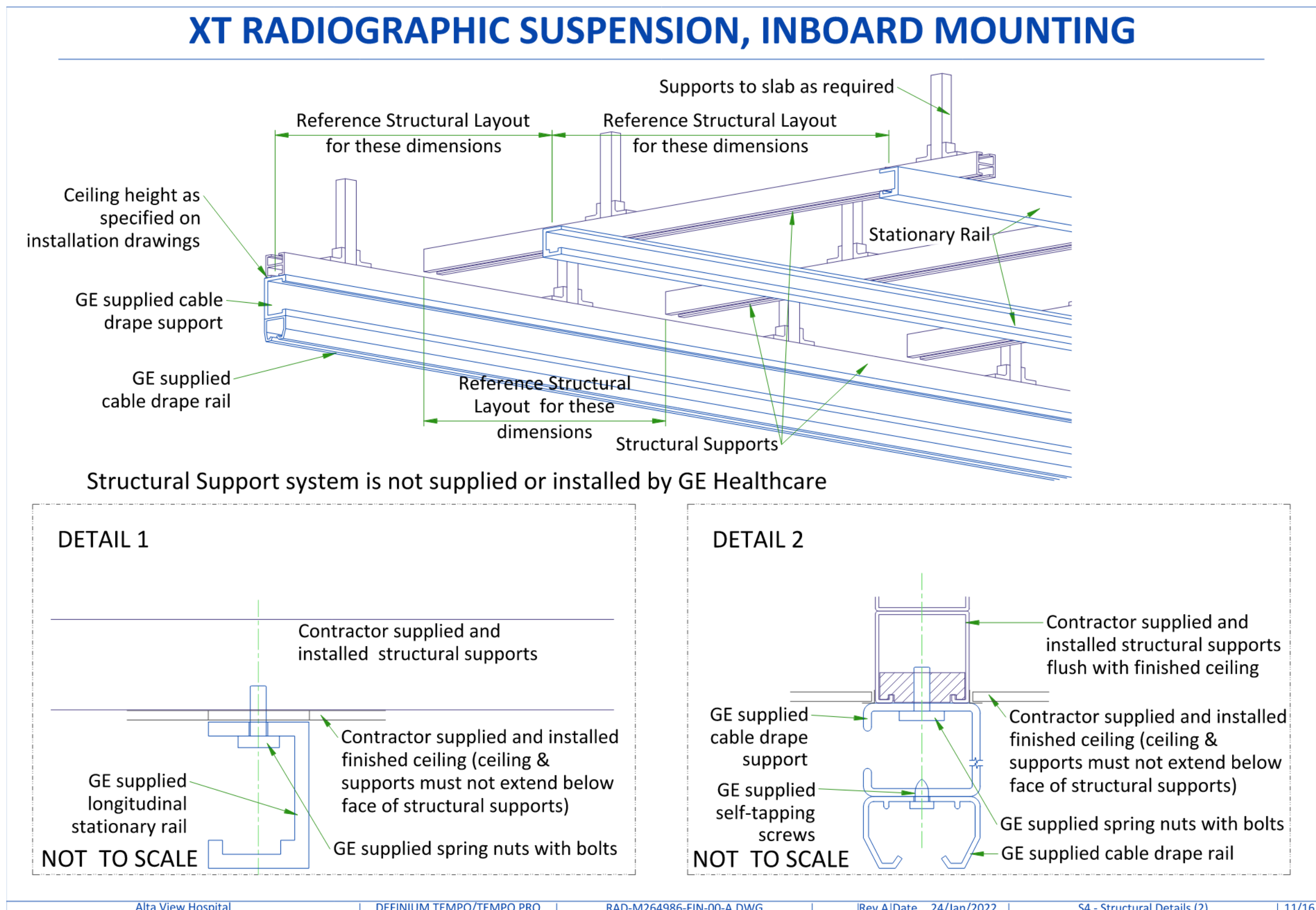
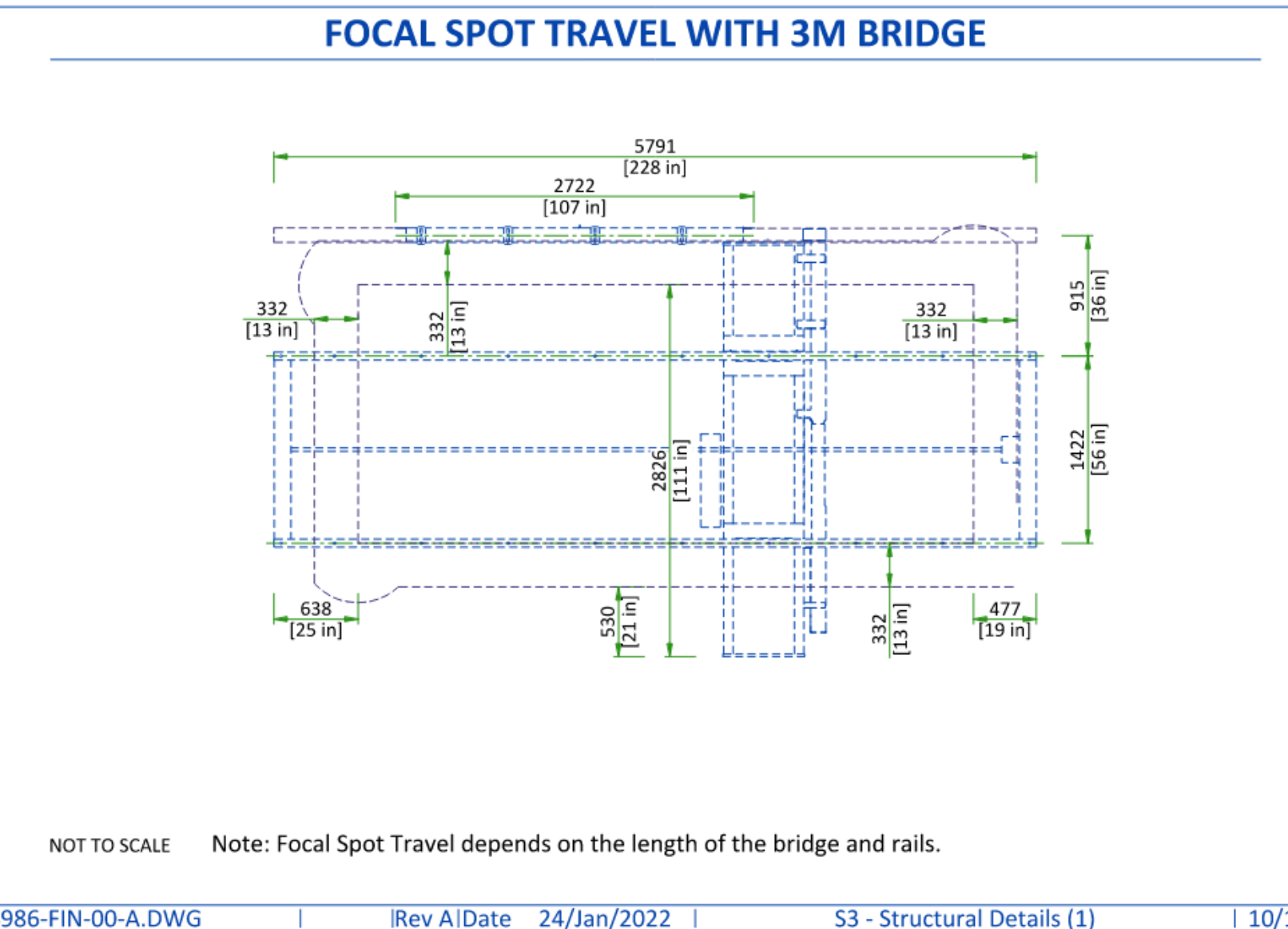
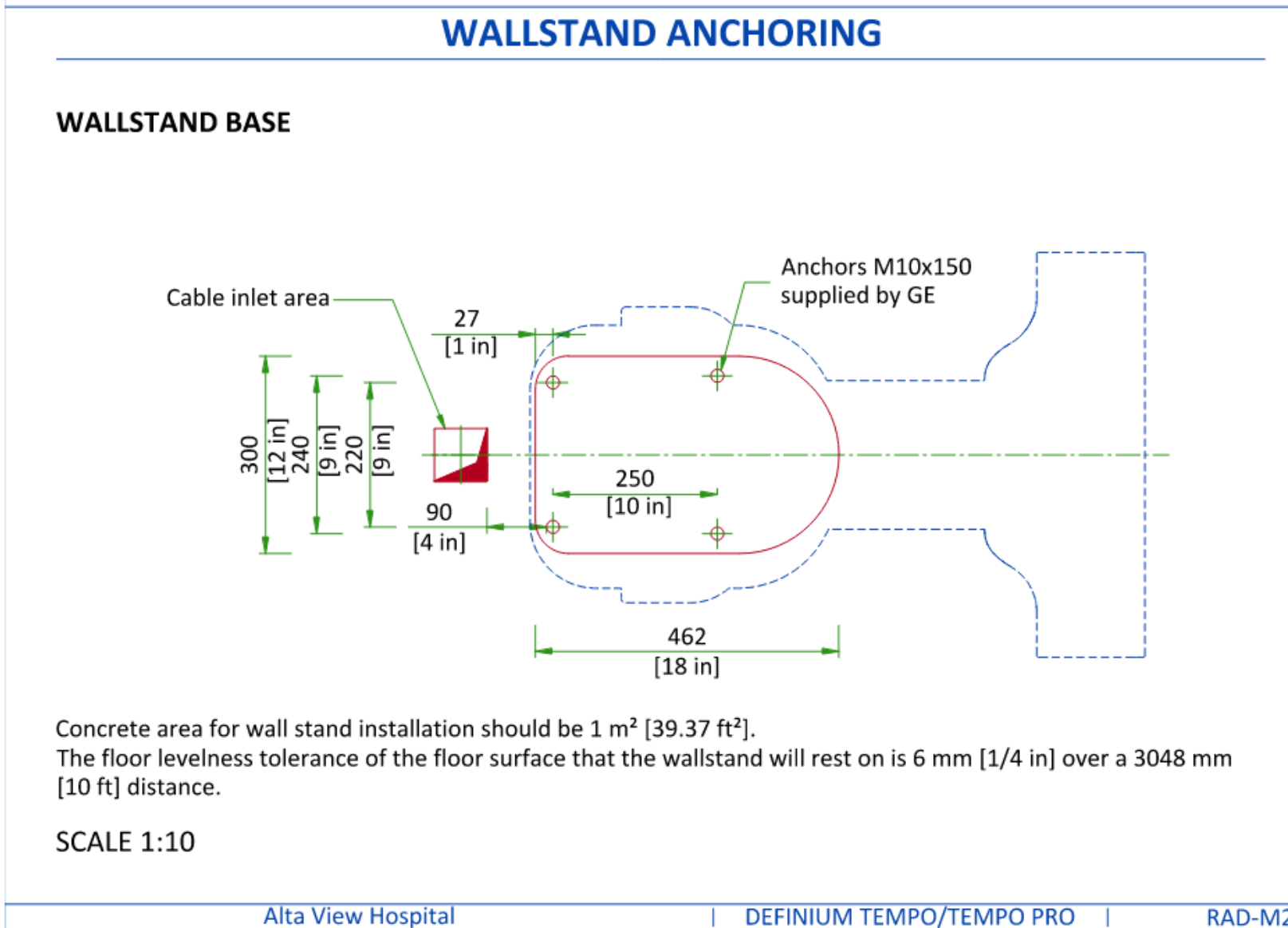
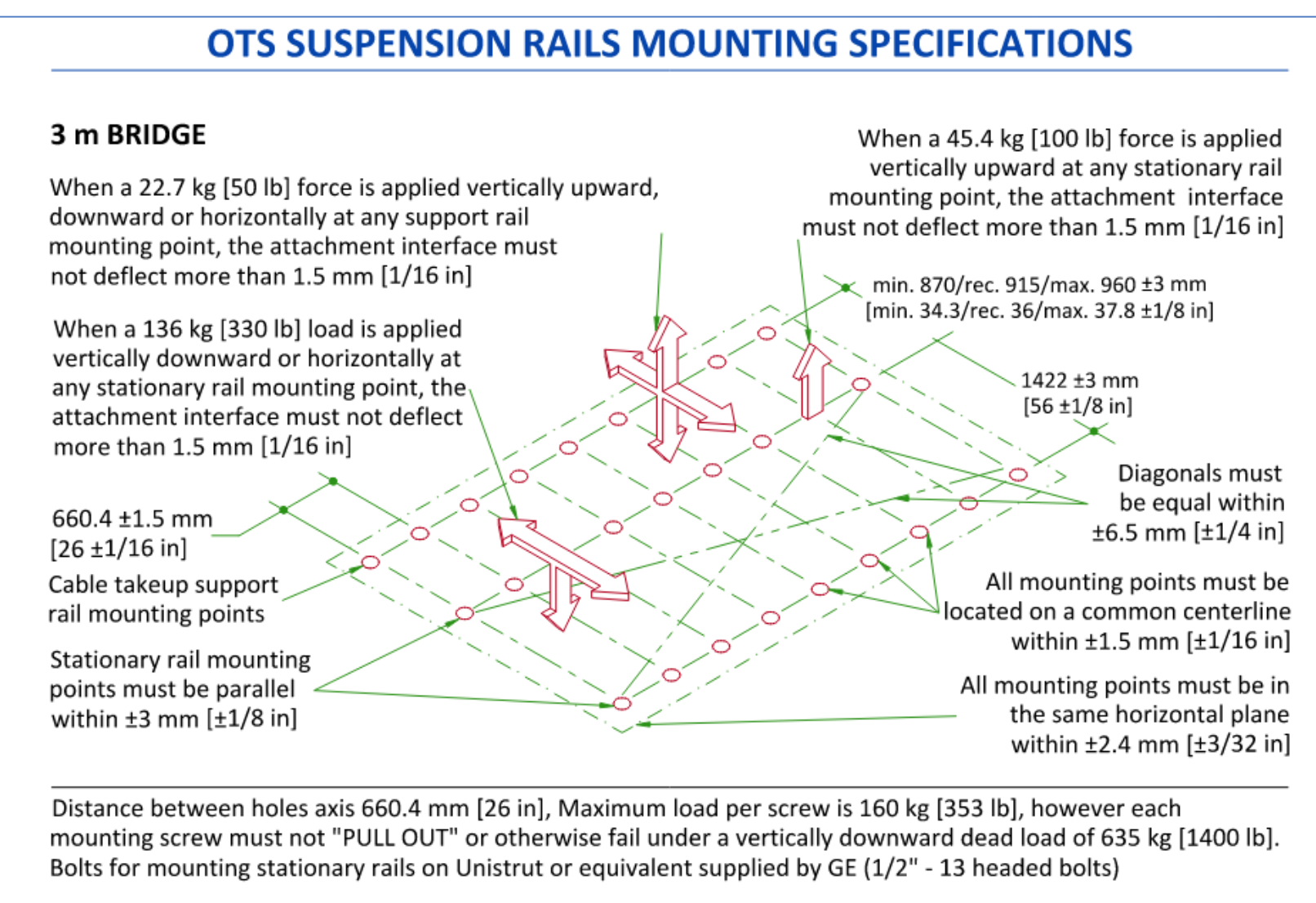
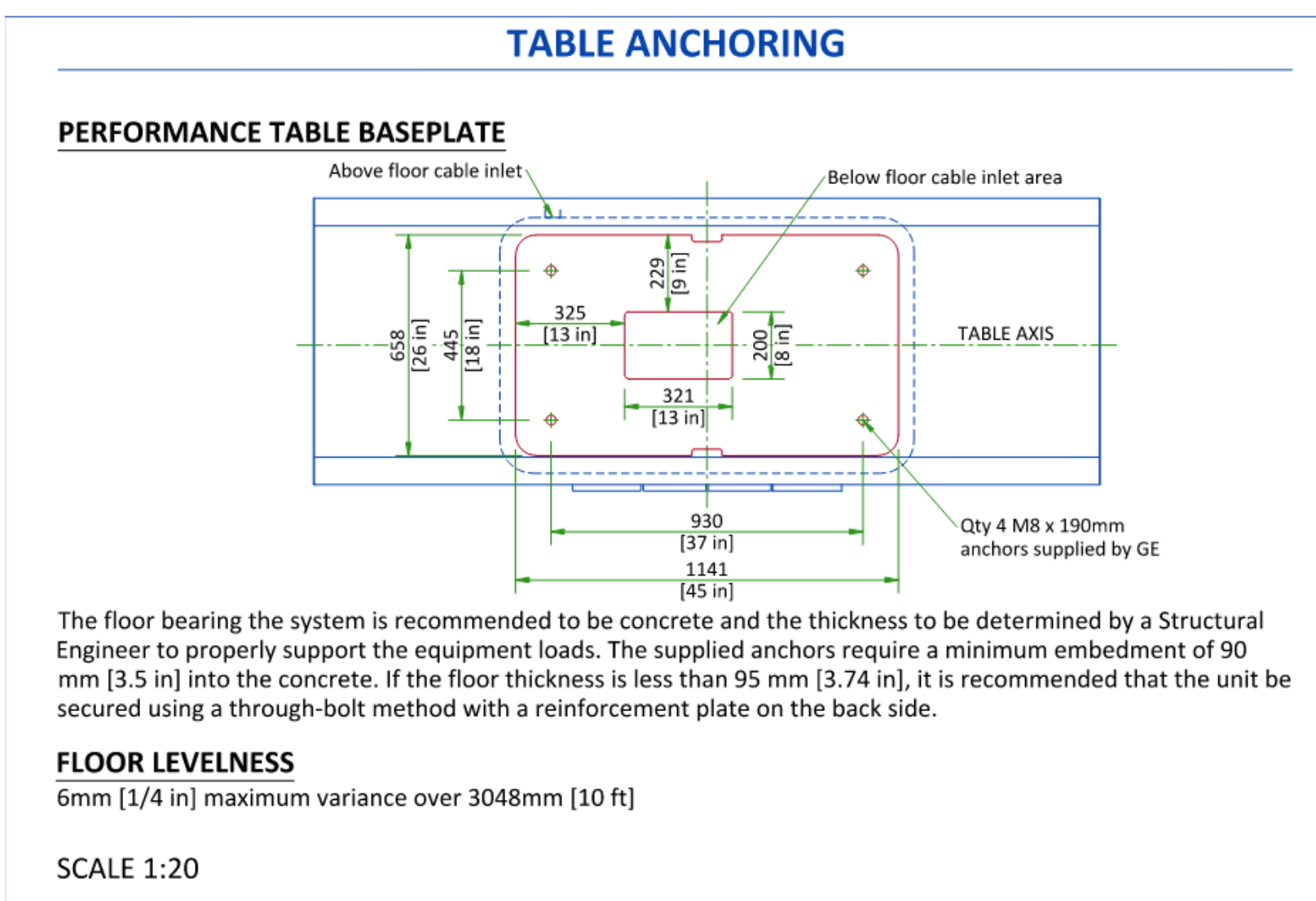
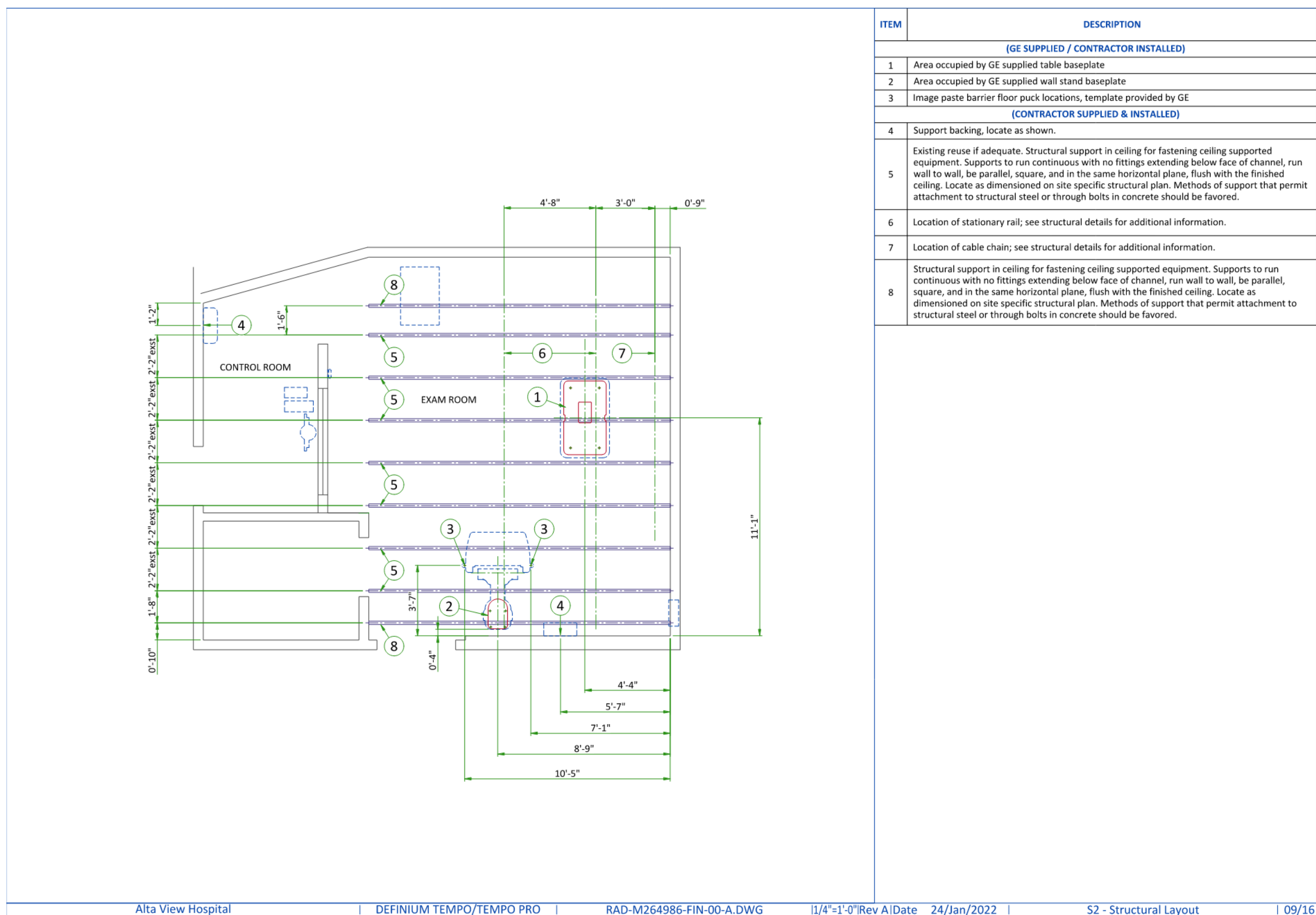
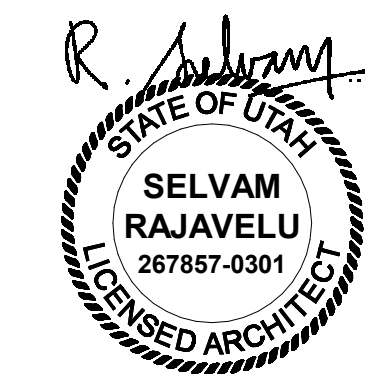
To allow installation of the stationary rail cross-members, clearance is required between the ends of the stationary rails and the walls.

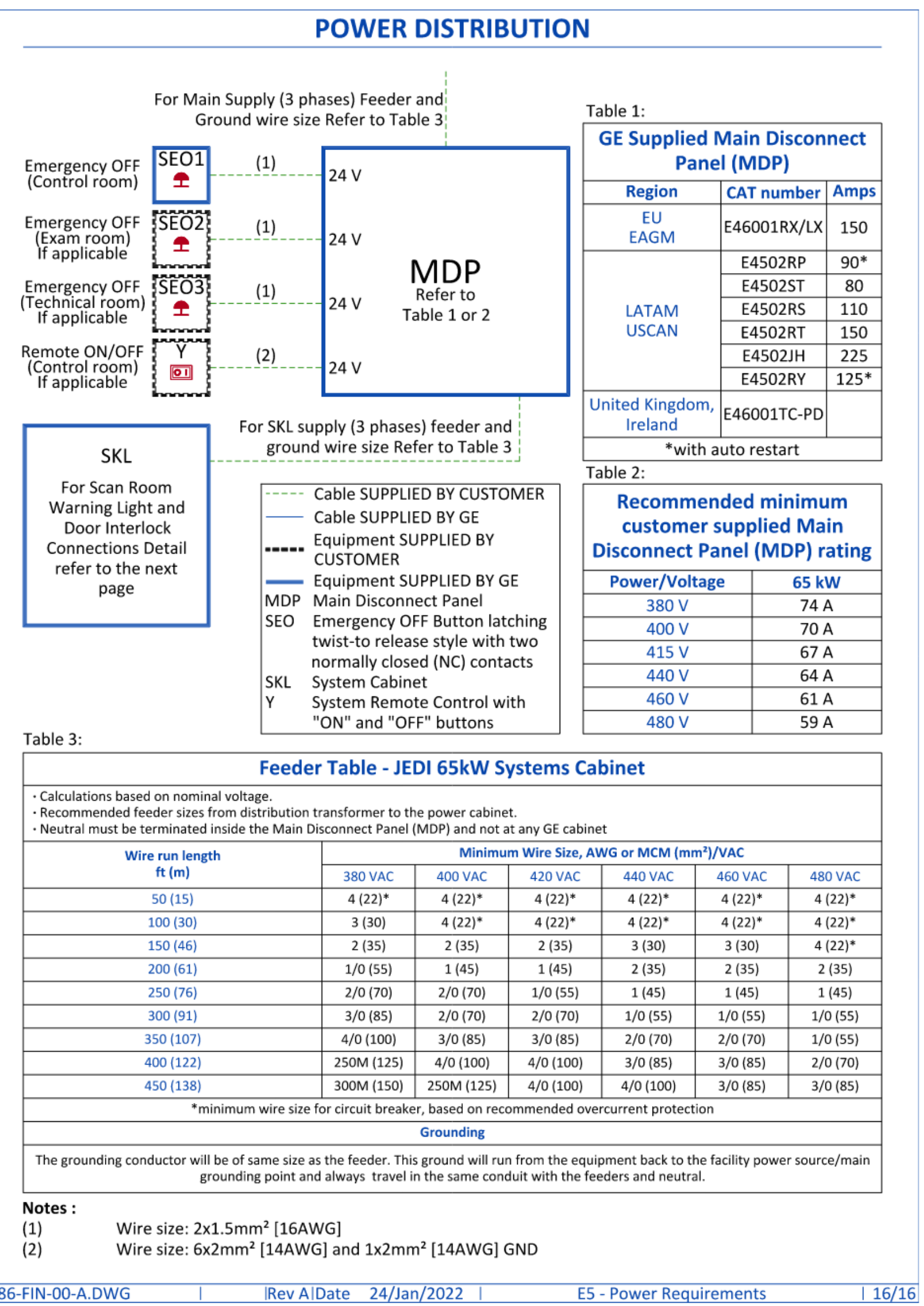
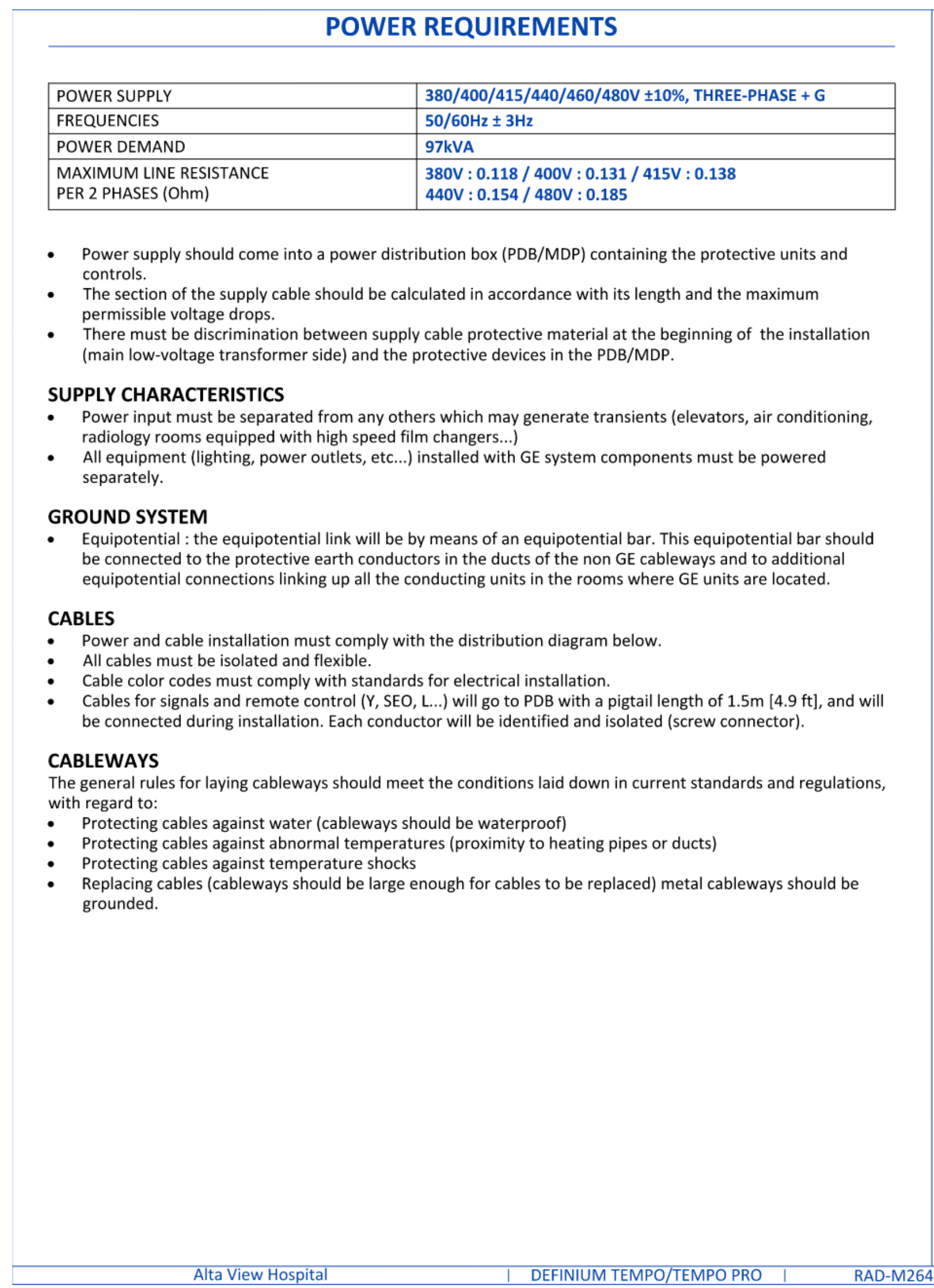
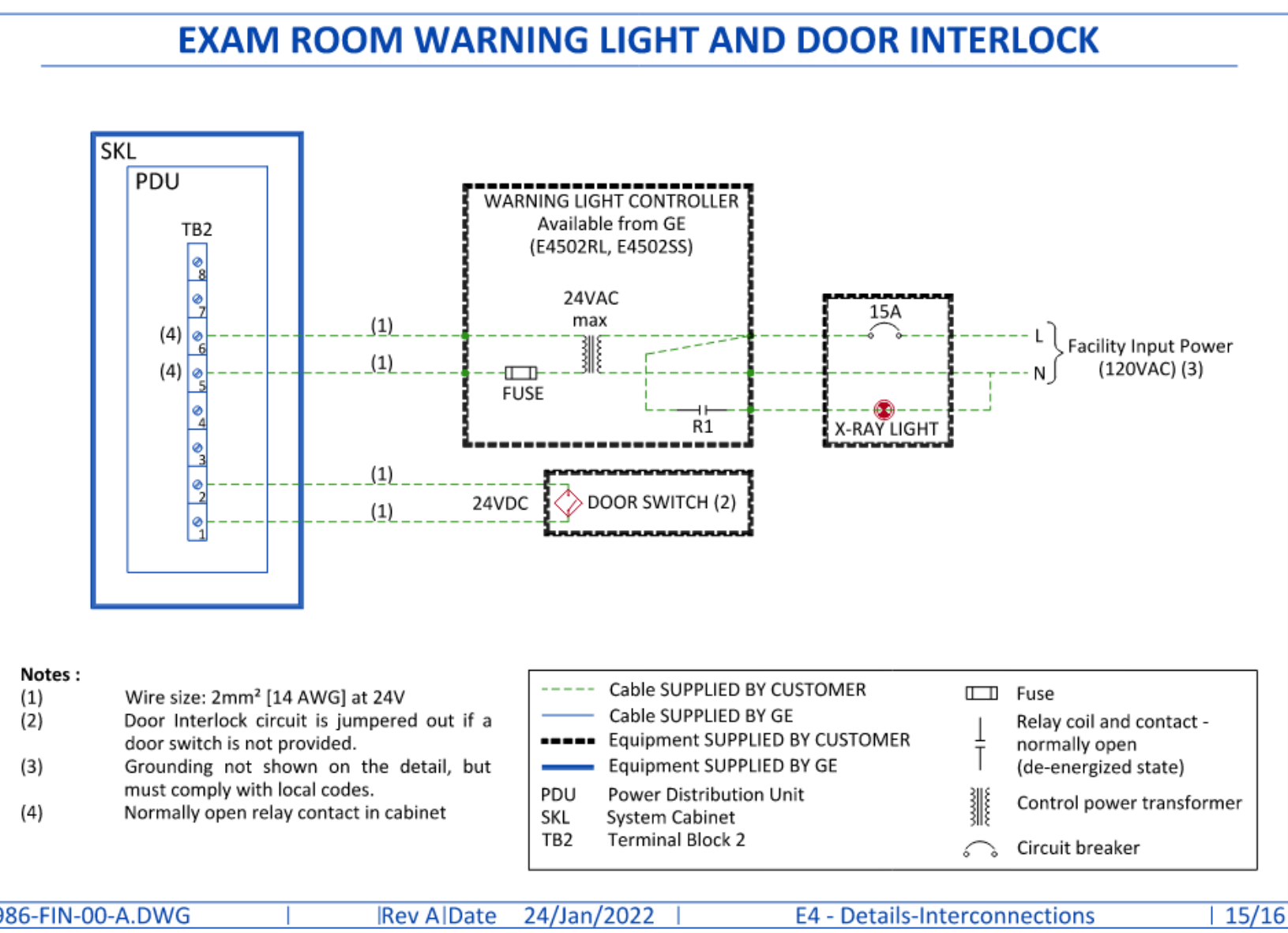
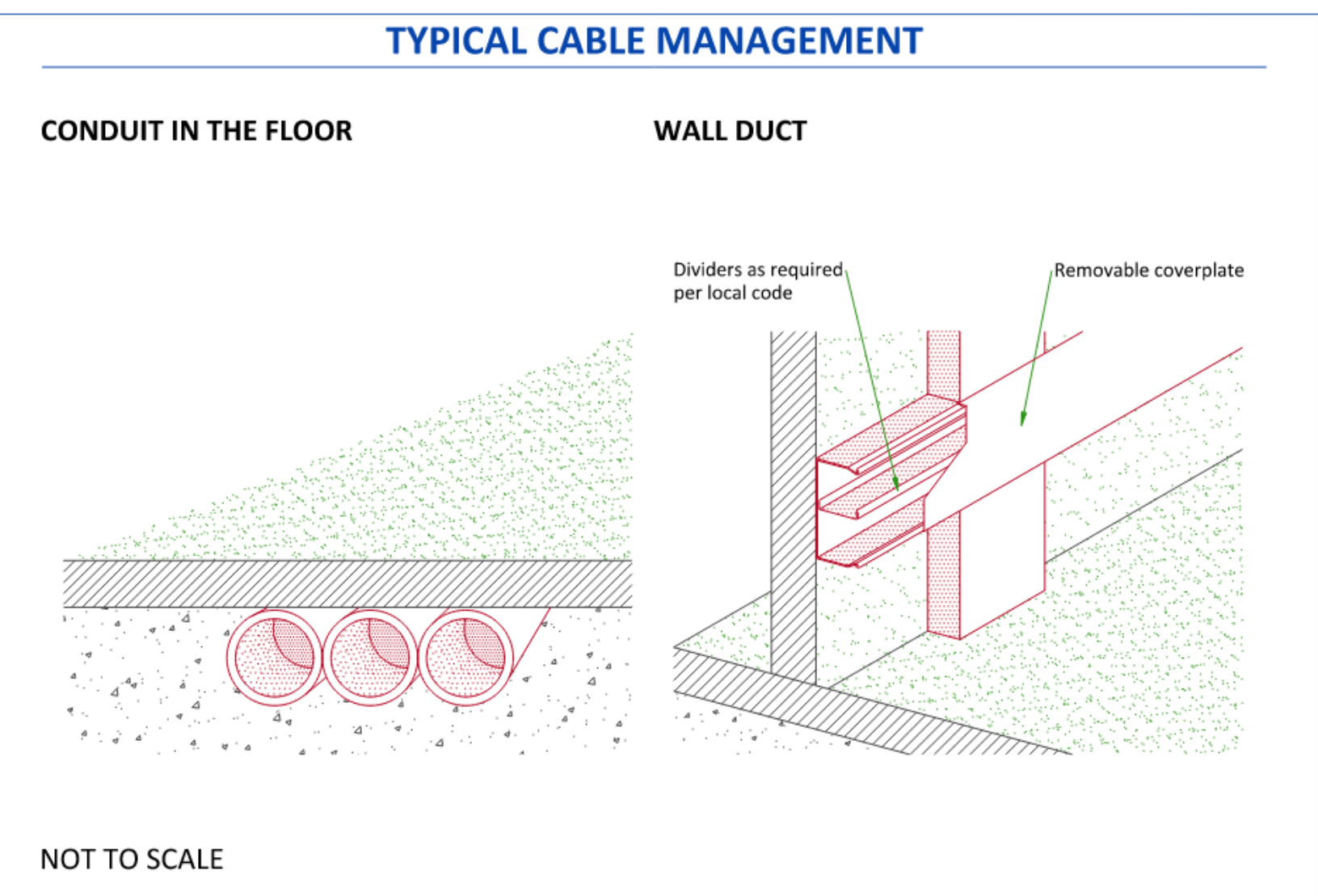
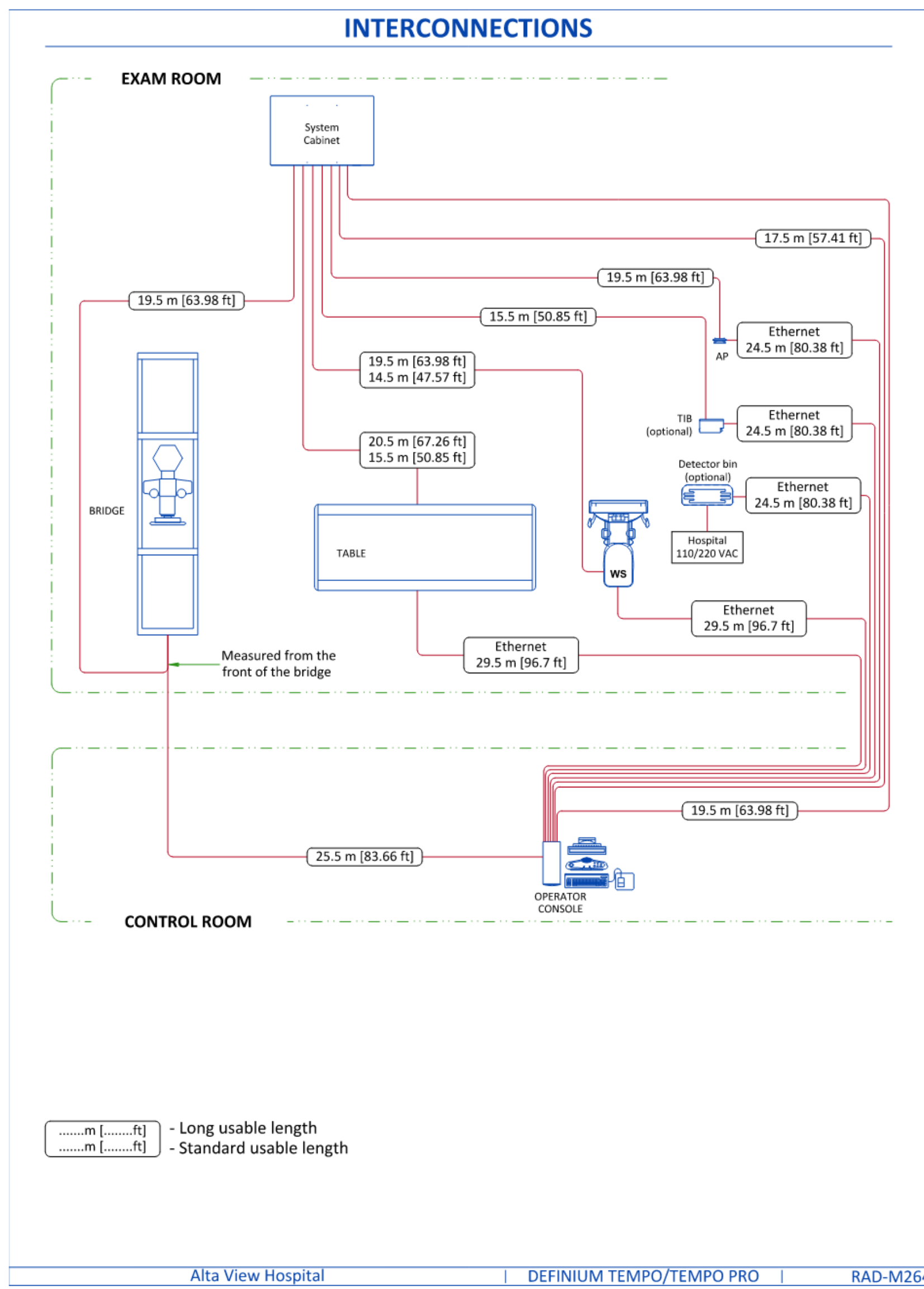
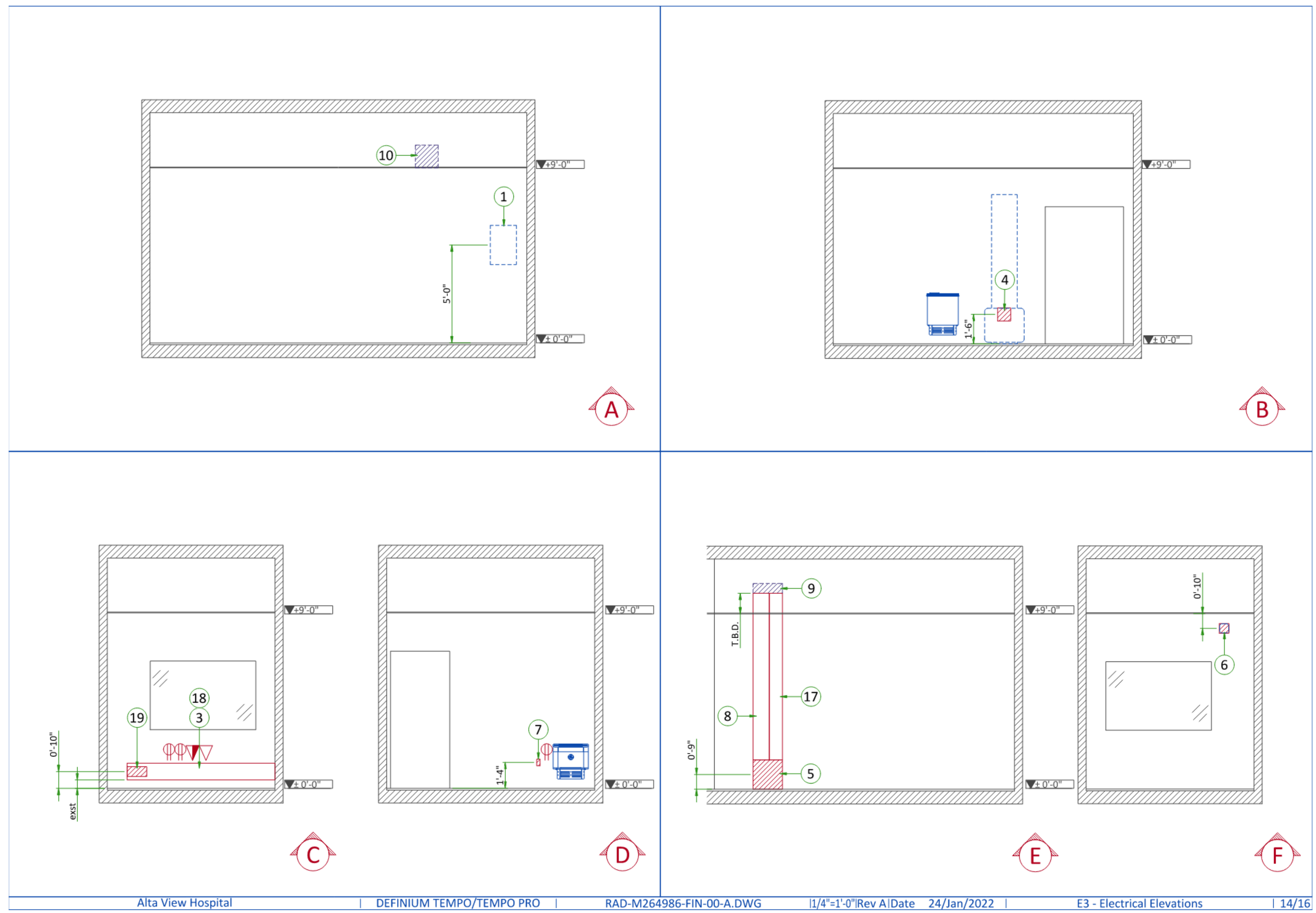
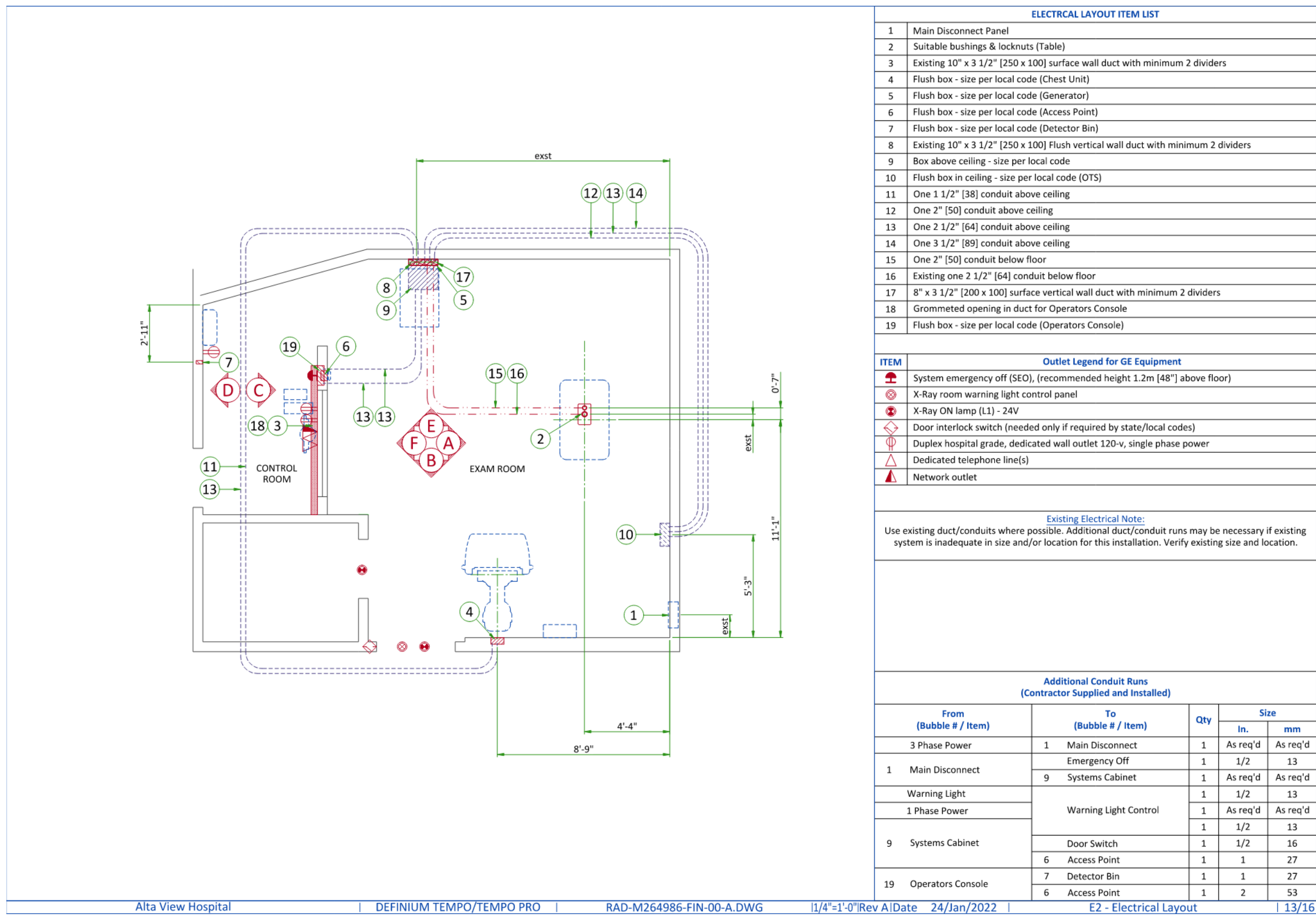
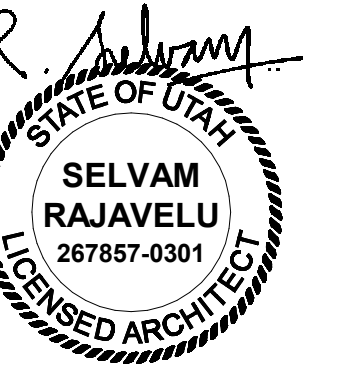
It is recommended that sprinkler heads not be placed between the stationary rails. All sprinkler heads should be mounted so they do not extend downward more than 6.35 mm [1/4 in] from the ceiling while in the 'resting' position.

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:
- 4115 mm [13'-6"]
 - 4220 mm [14'-6"]
 - 4720 mm [15'-6"]
 - 5030 mm [16'-6"]
 - 5330 mm [17'-6"]
 - 5640 mm [18'-6"]
 - 5790 mm [19'-0"]

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





2/14/2022 1:26:49 PM

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Alta View Hospital
X-Ray Replacement

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