

# Drawing Index

These sheets are a document set and should not be separated. Electrical information and references are contained on all sheets.

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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 \***

Discovery IGS  
Pre Installation Manual  
5507046-1-1EN

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](http://www.gehealthcare.com/siteplanning)

# GE Healthcare



## Interventional Site Planning

CUSTOMER ACCEPTANCE



imagination at work

# 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; 1. Secure area for equipment, 2. Power for drills and other test equipment, 3. Capability for image analysis, 4. Restrooms.
- Provide for refuse removal and disposal (e.g. crates, cartons, packing)
- Contact a radiation physicist or consultant to specify radiation containment requirements.

# GE Equipment Delivery 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 Healthcare Site Readiness Checklist Rev 19				
Before using this document ensure you have the latest Rev from MyWorkshop on DOC0422752				
GEHC Global Order #:	Customer:			
GEHC PMI:	FE / Installer:			
The customer is responsible for proper site preparation regardless of any GEHC measurements/inspections/assessments.				
Inspection Date:	Storage is ready?	PHI is ready?	FE is ready?	Comments If "N", enter comments or action plan
<b>1 MR Magnet Delivery Requirements:</b> Ensure oxygen venting system is available for magnet connection as defined by GEHC Pre-Installation Manual (PIM) requirements; exhaust fan system is installed and operational, 480V power, and chilled water supply is available 24x7 that meets system cooling requirements. External connectivity is available for magnet monitoring and phone service is available during delivery. Surface mount vibromat installed where required. Magnet room final flooring is in place.				
<b>2 MR RF Screen Room Requirements:</b> RF Screen Room is tested with copy of Test Report, emailed to <a href="mailto:563admin@GE-Healthcare.com">563admin@GE-Healthcare.com</a> , that it is compliant with GEHC specifications. Back seat and magnet anchors (if applicable) installed using 2 part anchor. For HDx systems, blower box mount bolts installed by RF vendor using 2 part anchors.				
<b>3 State Regulatory Requirements:</b> Facility registration number provided for states of <u>IL, KY, HI, RI, SC, TX, VA</u> . X-ray shielding plan and state acknowledgment letter provided to installer for <u>AR, DC, NC, SC, CO</u> .				
<b>4 Surface Penetration Requirements:</b> Customer/Contractor scheduled to provide required drilling or cutting into floors, ceilings, and walls, OR surface penetration permit available and posted in the room when GEHC will perform the work.				
<b>5 Pre-Delivery Route Requirements:</b> The equipment delivery route from the truck to the final destination within the facility has been reviewed with all key stakeholders to safely meet the minimum requirements for equipment access, and all communications/notifications have occurred. Arrangements have been made for special handling (elevator, rigging, floor protection, fork lift, rollback truck, etc).				
<b>6 Finished Room Requirements:</b> Rooms that will contain equipment, including storage areas not in scan suite, are dust free. Provisions taken to maintain a dust free room. Precautions must be taken to prevent dust from entering rooms containing equipment when construction is incomplete in adjacent areas. All walls primed (final coat not needed on Day 1). Shielding, doors, and windows are to be installed. No contractor work being done during or after the installation that will cause dust in the installation areas or potential equipment damage. Room security to prevent unauthorized access and theft has been discussed with customer. The customer is aware of these security issues, implications and responsibility. For Storage: Room must meet PIM requirements for storage.				
<b>7 Electrical Requirements:</b> Lockable (LOTO) Main Disconnect Panel (MDPI) is installed per GE guidelines and system power is available. Conduits, electrical cable ducting/dividers/cable trays, and access flooring is installed in proper location and height. Surface floor duct and load-side wires can be installed at time of system installation. Validate outlet location and requirements meet specifications for device/equipment.				
<b>8 HVAC Requirements:</b> The HVAC/Chilled Water systems designed to maintain the environment per spec/PIM is at running state and appears to provide the desired environmental conditions including location of vents, temperature and humidity for system operation.				
<b>9 Flooring Requirements:</b> Floor is clean and prepared for final floor covering. Floor levelness/flatness is measured and within tolerance, and there are no visible defects per GEHC specifications. Confirm customer anchoring plan aligns with designed floor thickness. Final flooring installed where required for network racks.				
<b>10 Ceiling Requirements:</b> Unistrut (or equivalent) location, levelness and spacing is measured (or vendor confirmed) and consistent with the requirement of the installation drawings. Ensure unistrut and rails are not used as mounting surfaces. Ceiling grid is installed. Permanent lighting is installed and operational. HVAC diffusers are installed and connected to ductwork. Ceiling tiles installed per PIM discretion.				
<b>11 Staging Requirements:</b> Space has been identified to support the active installation process only. This area meets PIM/project book requirements. Storage space has been identified, if needed. This secured space would be used to store equipment indefinitely. If offsite, transportation plan has been developed at customer expense. This space must meet PIM requirements.				
<b>12 Network Connectivity:</b> Hardware for network connectivity/network drop is in place prior to delivery with specified network firewall configuration where required. Site surveys for wireless mobile XR units have been completed.				
<b>13 Medical Gases Requirements:</b> Systems (hard piped or portable) in place to allow testing and calibration of equipment (anesthesia), including ventilation.				

GE Healthcare  
Healthcare Project Implementation - Design Center  
Milwaukee, Wisconsin  
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SHEET TITLE: SITE READINESS  
MODALITY TYPE: DISCOVERY IGS  
THIS PLAN IS SUBMITTED TO SURVEY LOCATION OF GE HEALTHCARE EQUIPMENT AND ASSOCIATED ELECTRICAL WIRING DETAILS AND ROOM ARRANGEMENTS. IN PREPARING THIS PLAN, EVERY EFFORT HAS BEEN MADE TO CONFORM DETAILS TO THE LATEST REVISED DRAWINGS AND THE COMPANY CANNOT ACCEPT ANY LIABILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:  
INTERVENTIONAL I.R.  
WITH ARM IMAGING  
MILWAUKEE, WISCONSIN

PROJECT	REVISION
4-96f	01
DATE:	22.Oct.15
DRAWN BY:	SLR
CHECKED BY:	TST

REVISION HISTORY:


SHEET  
C1

PIM R1  
RQ - 155703

**GE EQUIPMENT LISTING**

EQUIPMENT ON ORDER FROM GE HEALTHCARE, INSTALLED BY GE HEALTHCARE, PER : NEITHER A QUOTE OR GON WAS ISSUED AT THE DATE OF THESE DRAWINGS

NOTE: LOCAL CONDITIONS MAY DICTATE THAT ITEMS IDENTIFIED IN THIS CATEGORY BE INSTALLED BY OTHERS.

ITEM NO.	QUANTITY ORDERED	REFER TO SHEET "D"	ITEM DESCRIPTION (* = EXISTING/REINSTALL)	WEIGHT	HEAT OUTPUT (PER HOUR)	DETAIL NO.	STRUC PLAN	ELEC PLAN
1	2		19 in. MONITOR ON WALL SUPPORT	26 lbs	204 btu	C7619W	-	WBM2
2	1		COUNTERBALANCED EYE AND THYROID SHIELD WITH R96 LAMP	143 lbs		B5031E	B5031F	LMP S
3	2		LONGITUDINAL STATIONARY RAIL FOR XT SUSPENSION	68 lbs			B20078	C
4	1		MEDRAD MARK V INJECTOR ON PEDESTAL	90 lbs	320 btu	B5030	---	S
5	1		XR BUZZER (LOCATED ABOVE CEILING)	2 lbs		B5150H	---	XR-B
6	1		DISCOVERY IGS MOBILE GANTRY	2094 lbs	3020 btu	B5050S	B20086	DIGS
7	1		CABLE MANAGEMENT SYSTEM	330 lbs		B-1GS13	B20085	CMS
8	1		INNOVA IQ TABLE	1750 lbs	614 btu	B8162	---	LUS C
9	1		REFLECTOR TARGETS FOR GANTRY NAVIGATION SYSTEM				B20084	-
10	1		SUGGESTED GANTRY PARKING POSITIONS (MAXIMUM OF TWO) BASED UPON ROOM CONSTRAINTS			B-1GS21	---	-
11	1		UPS INTERFACE BOX			E45021B	---	UI-B
12	1		ATLAS CABINET(C2)	659 lbs	1825 btu	B0558C	---	C2 C
13	1		ATLAS CABINET(C1F)	1115 lbs	3389 btu	B0558C	---	C1F C
14	1		DETECTOR CHILLER	33 lbs	706 btu	B5049F	---	DC S
15	1		COOLIX 4100 WATER CHILLER	264 lbs	18730 btu	B-1GS03	---	CHLR C
16	1		COOLIX 4100 AUTOTRANSFORMER	66 lbs	153 btu	B-1GS03	---	AT
17	1		UPS CABINET	1170 lbs	4061 btu	E45025C	---	UPS
18	1		TABLESIDE CART			B-1GS06	---	-
19	1		LARGE DISPLAY MONITOR ON SINGLE MONITOR SUSPENSION	784 lbs	1706 btu	B2004	---	LDM C
20	1		LARGE DISPLAY MONITOR CABINET	253 lbs	3412 btu	B2014	---	LDC C
21	1		3 KVA UPS CABINET (LARGE DISPLAY SUBSYSTEM OPTION)	99 lbs	546 btu	B2016	---	UPS3 C
22	1		AW WORKSTATION	81 lbs	1201 btu	M1013AW	---	C
23	1		CONTROL ROOM MONITOR WITH DL KEYPAD	22 lbs	204 btu	C7412H	---	S
24	1		OPERATORS CONSOLE	22 lbs	546 btu	B5050C	---	WBC1 C
25	1		BOLUS CHASE HANDSWITCH	2 lbs		C7519D	---	WBC2

THE FOLLOWING ITEMS, WHICH HAVE BEEN ORDERED FROM GE HEALTHCARE, ARE TO BE INSTALLED BY THE CUSTOMER OR HIS CONTRACTOR.

69	1		DISCOVERY MAIN DISCONNECT, REFERENCE JUNCTION POINT, PDB, ON SHEET E1 FOR DETAILED DESCRIPTION.	326 lbs	1532 btu	E4502M	---	PDB
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**EQUIPMENT LAYOUT** REQUIRED CEILING HEIGHT = 9'-7" OR HIGHER

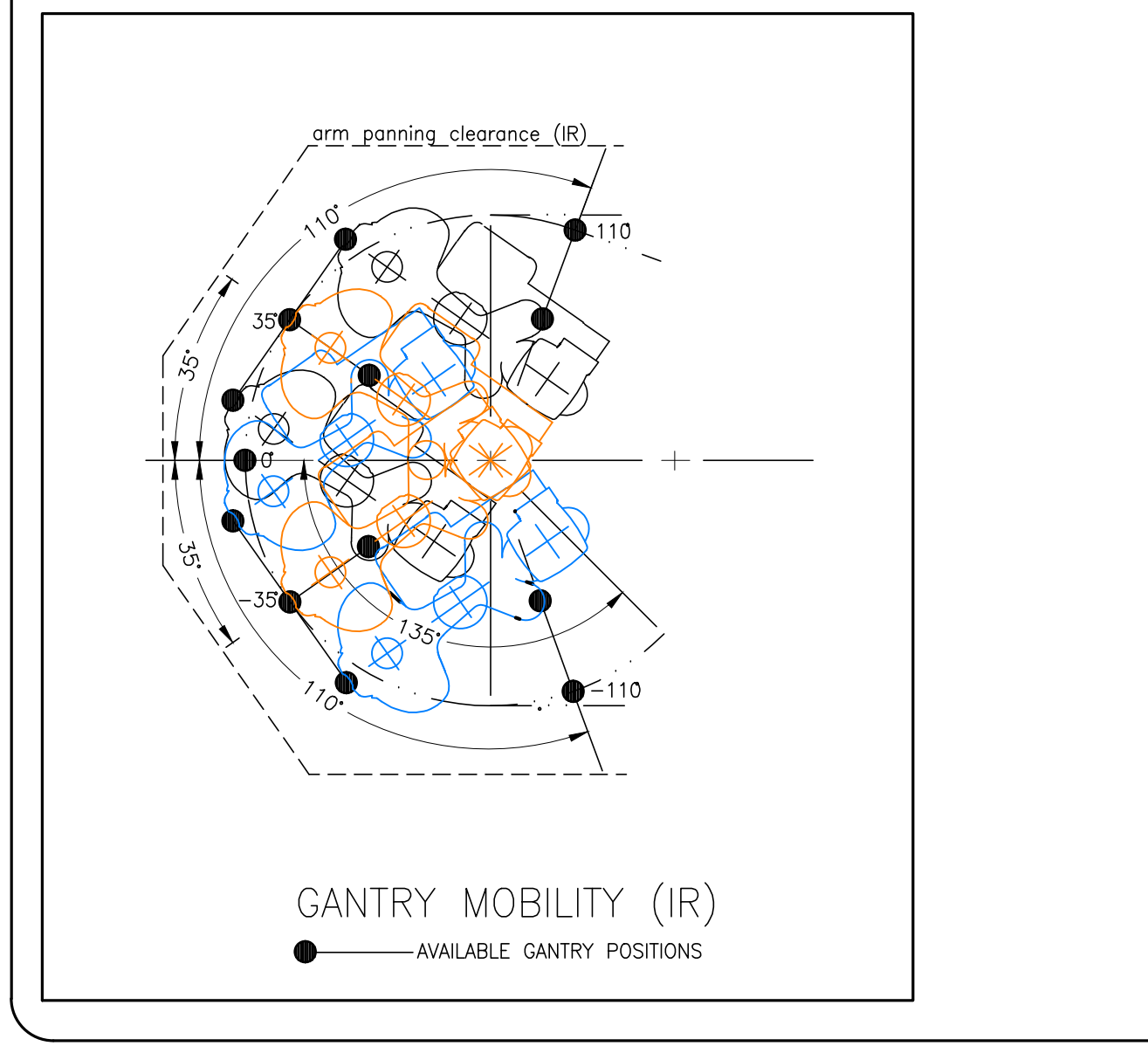
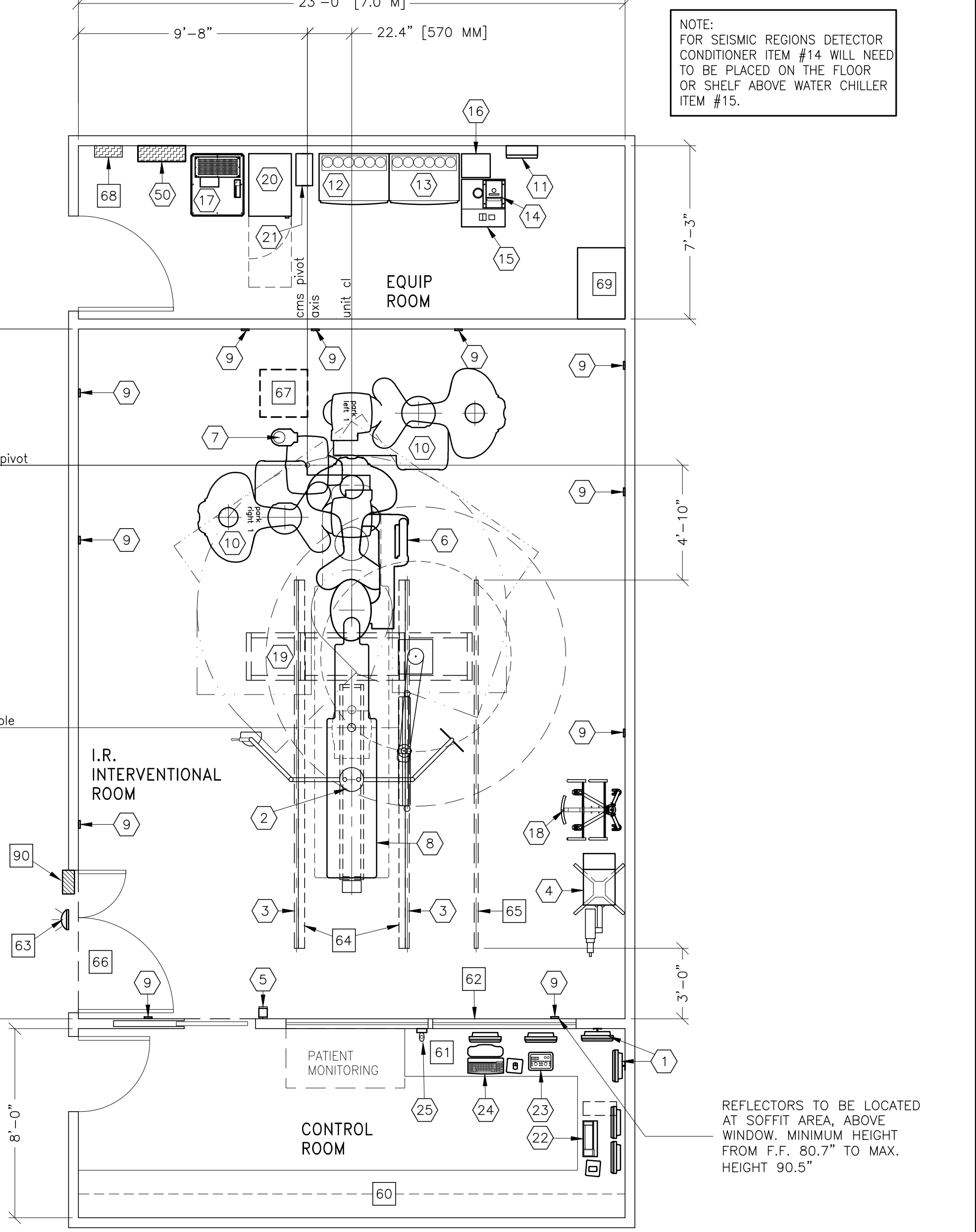
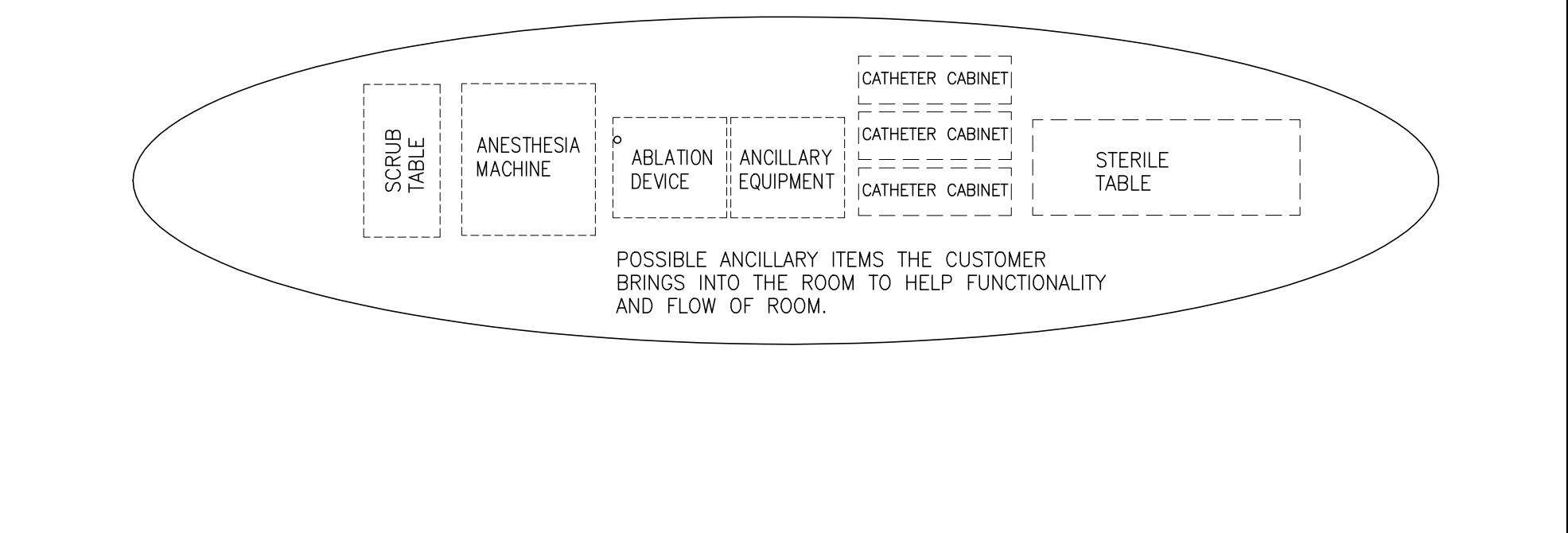
SCALE: 1/4" = 1'-0" This equipment layout indicates the placement and interconnection of the indicated equipment components. There may be federal, state, and/or local requirements that could impact the placement of these components. It remains the Customer's responsibility for ensuring the site and final equipment placement complies with all applicable federal, state, and/or local requirements.

**GANTRY MOTION OPTIONS - IR (ARM IMAGING) CAT NO. S18621TA**  
**AVAILABILITY DEPENDING ON THE OPTION PURCHASED.....THE FOLLOWING (✓) INDICATES PARK, BACKOUT, ARM IMAGING AND HORSESHOE POSITIONS AVAILABLE FOR THIS LAYOUT SHOWN IN DRAWING.**

NOTE: NOT ALL PARK & BACKOUT POSITIONS ARE REQUIRED. 0-2 PARK POSITIONS CAN BE CONFIGURED ON THE MACHINE PER AVAILABLE SPACE, AND AS MANY BACK-OUT POSITIONS THE AVAILABLE SPACE ALLOWS (60" [508MM] CLEARANCE REQUIRED BETWEEN GANTRY AND OBSTRUCTION SUCH AS WALLS, COLUMNS, CASEWORK ECT. FOR SAFETY CONCERNS).

PARK POSITION	BACKOUT POSITION	MIN.	MAX.	ARM IMAGING POSITIONS	HORSESHOE POSITIONS	IN
PARK RIGHT 1	HEAD LONG	✓	✓	LEFT PANNING +35°	HEAD	✓
PARK HEAD 1	HEAD RIGHT	✓	✓	RIGHT PANNING +35°	LEFT LATERAL	✓
PARK LEFT 1	HEAD LEFT	✓	✓	BACKIN +35°	RIGHT LATERAL	✓
	RIGHT SWIVEL	✓	✓	BACKIN +110°	LEFT FEET	✓
	LEFT SWIVEL	✓	✓	BACKIN -110°	RIGHT FEET	✓
				LEFT PANNING -35°	LEFT +35°	✓
				RIGHT PANNING -35°	RIGHT -35°	✓
				BACKIN -35°	LEFT +110°	✓
					RIGHT -110°	✓
					RIGHT -135°	✓

NOTE: ALL 3 PARK POSITIONS ARE POSSIBLE FOR THIS TYPICAL SITE BUT ONLY 2 ARE SHOWN IN THIS DRAWING PACKAGE.



**ANCILLARY ITEMS**

CUSTOMER/CONTRACTOR SUPPLIED AND INSTALLED ITEMS

ITEM NO.	ITEM DESCRIPTION (* INDICATES EXISTING)
60	COUNTER TOP WITH BASE AND WALL CABINETS
61	COUNTER TOP FOR EQUIPMENT-MINIMUM DEPTH 30 in. OR ADDITIONAL SHELVING MAY BE REQUIRED. PROVIDE DIMENSIONED OPENINGS AS REQUIRED TO ROUTE INTERCONNECT CABLES TO RACEWAY BELOW COUNTERTOP.
62	CONTROL WALL TO CEILING WITH LEAD GLASS VIEWING WINDOW.
63	X-RAY ON WARNING LIGHT - AVAILABLE FROM GE SUPPLY CALL: 800-800-9760 GE CAT. NO. WX1ABW-DF-XIU
64	BEARING BLOCK OUTLINE, SEE S1 FOR MORE INFORMATION.
65	CABLE DRAPE RAIL.
66	MIN. DOOR OPENING FOR GANTRY DELIVERY: 55.5" x 81.1" (1410mm x 2060mm) CONTINGENT UPON A 96" (2438mm) CORRIDOR. SEE DETAIL B-1GS14
67	CEILING SERVICE ACCESS PANEL
68	CIRCUIT BREAKER OR EQUIVALENT WITH LOTO CAPABILITY. MUST BE INSTALLED IN THE MAINS LINE TO THE PDB. THIS DEVICE MUST BE COMPATIBLE WITH THE POWER INPUT SPECIFICATIONS OF THE SYSTEM. THE CUSTOMER IS RESPONSIBLE FOR PROCUREMENT, DELIVERY, INSTALLATION OF THIS BREAKER
69	CUSTOMER SUPPLIED STORAGE CABINET

THE FOLLOWING ITEMS ARE AVAILABLE FROM GE HEALTHCARE TECHNOLOGIES. CONTACT YOUR LOCAL GE HEALTHCARE SERVICE REPRESENTATIVE FOR PRICING AND AVAILABILITY.

**GENERAL SPECIFICATIONS**

- THE REQUIRED CEILING HEIGHT INDICATED ON THESE PLANS IS TO ENSURE EQUIPMENT FUNCTION IS NOT INHIBITED. CONSULT WITH YOUR LOCAL GEHC SPECIALIST REGARDING ACCEPTABILITY OF OTHER CEILING HEIGHTS.
- CHECK ALL DOOR OPENINGS AND HALLWAYS FROM DELIVERY LOCATION TO WHERE EQUIPMENT IS TO BE INSTALLED TO ENSURE THE ROUTE PHYSICALLY AND STRUCTURALLY WILL ACCOMMODATE THE EQUIPMENT AS SHIPPED.
- RADIATION PROTECTION REQUIREMENTS ARE NOT INDICATED ON THIS PLAN. WHERE NEEDED PER NATIONAL OR LOCAL CODE THEY SHALL BE SPECIFIED BY A QUALIFIED RADIOLOGICAL PHYSICIST.
- THE DEVELOPMENT OF THE EQUIPMENT LAYOUT, ROOM DIMENSIONS, MECHANICAL AND 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..
- ALL WORK TO BE IN COMPLIANCE WITH NATIONAL AND LOCAL BUILDING SAFETY CODES.
- DIMENSIONS ARE TO FINISHED SURFACES OF ROOM

**SITE ENVIRONMENT SPECIFICATIONS**

- TECHNICAL ROOM AMBIENT OPERATING TEMPERATURE: 55 TO 77 DEGREES (F), [13 TO 25 DEGREES (C)], WITH 30% - 75% HUMIDITY. THE TARGET TEMPERATURE (BEST RECOMMENDED) IS 64 DEGREES (F), [18 DEGREES (C)].
- TECHNICAL ROOM WITH FLUORO UPS AMBIENT OPERATING TEMPERATURE: 68 TO 77 DEGREES (F), [20 TO 25 DEGREES (C)] WITH 30% - 75% HUMIDITY.
- EXAM ROOM AMBIENT OPERATING TEMPERATURE: DESIGN FOR PATIENT/OPERATOR COMFORT, WITH 30% - 70% HUMIDITY.
- CONTROL ROOM AMBIENT OPERATING TEMPERATURE: 68 TO 77 DEGREES (F), [20 TO 25 DEGREES (C)], WITH 30% - 75% HUMIDITY.
- ALTITUDE: NOT TO EXCEED 9,842 FT. [3,000 M] ABOVE SEA LEVEL.
- DO NOT RESTRICT THE AIR INTAKE AT THE LOWER FRONT OR AIR EXHAUST AT THE TOP OF THE ELECTRONICS CABINETS.

**MAGNETIC INTERFERENCE SPECIFICATIONS**

- DIGITAL FLAT PANEL MUST BE LOCATED IN AMBIENT STATIC MAGNETIC FIELDS OF LESS THAN 1 GAUSS TO GUARANTEE SPECIFIED IMAGING PERFORMANCE.
- 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 FIELDS OF LESS THAN 10 GAUSS TO OBTAIN SPECIFIED GEOMETRIC LINEARITY.

**GE Healthcare**  
 Healthcare Project Implementation - Design Center  
 Milwaukee, WI

SHEET TITLE: **EQUIPMENT LAYOUT**  
 MODALITY TYPE: **DISCOVERY IGS**

THIS PLAN IS SUBMITTED TO ASSIST IN THE LOCATION OF GE HEALTHCARE EQUIPMENT AND ASSOCIATED ELECTRICAL WIRING DETAILS AND ROOM ARRANGEMENTS. IN PREPARING THIS PLAN, EVERY EFFORT HAS BEEN MADE TO CONFORM TO THE ACTUAL CONSTRUCTION PURPOSES, DIMENSIONS AND THE LAYOUT. GEHC ACCEPTS NO RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:  
**INTERVENTIONAL I.R. WITH ARM IMAGING**  
 MILWAUKEE, WISCONSIN

PROJECT	REVISION
4-96f	01

DATE: 22.Oct.15  
 DRAWN BY: SLR  
 CHECKED BY: TST

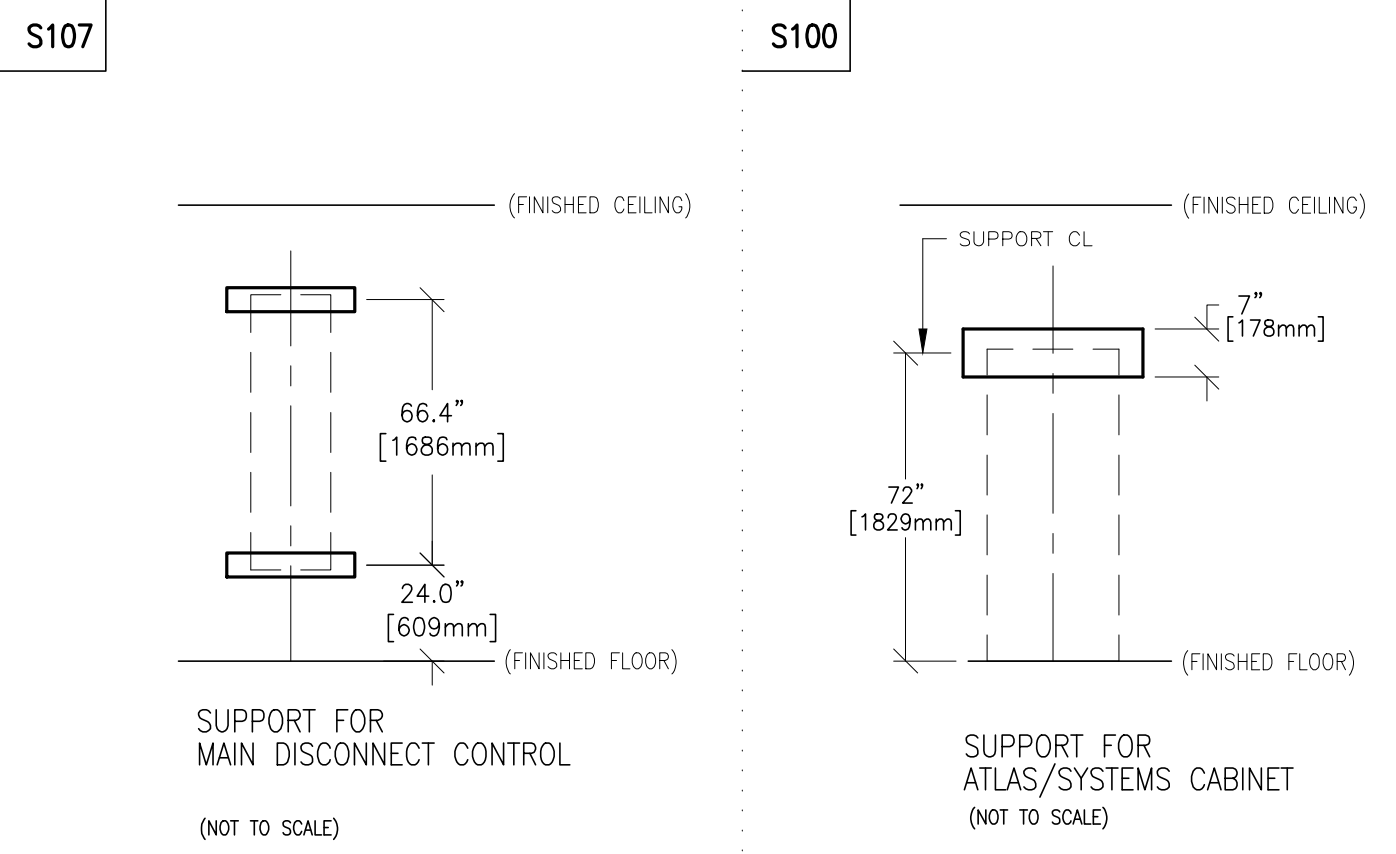
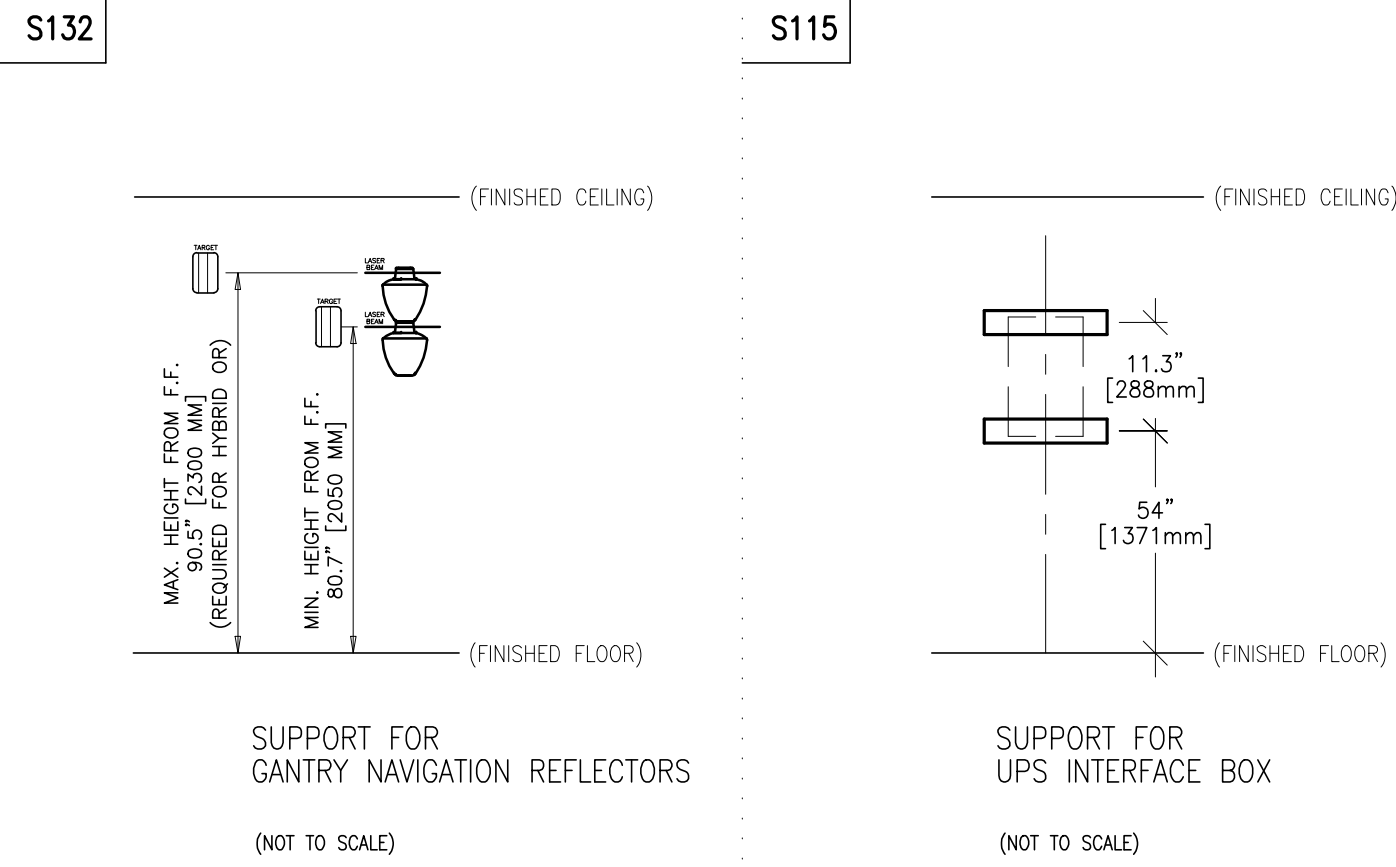
REVISION HISTORY:


SHEET  
**A1**

GE Project Manager: TYP\_FINAL DC  
 Telephone: \_\_\_\_\_

THE GE HR TECHNICAL SUPPORT GROUP IS AN ADDITIONAL RESOURCE THAT CAN PROVIDE ANSWERS FOR GENERAL GE PRODUCT SPINNING QUESTIONS AND CAN BE REACHED AT (877)-305-9677 OR MAILTO:HRTECH@GE.com

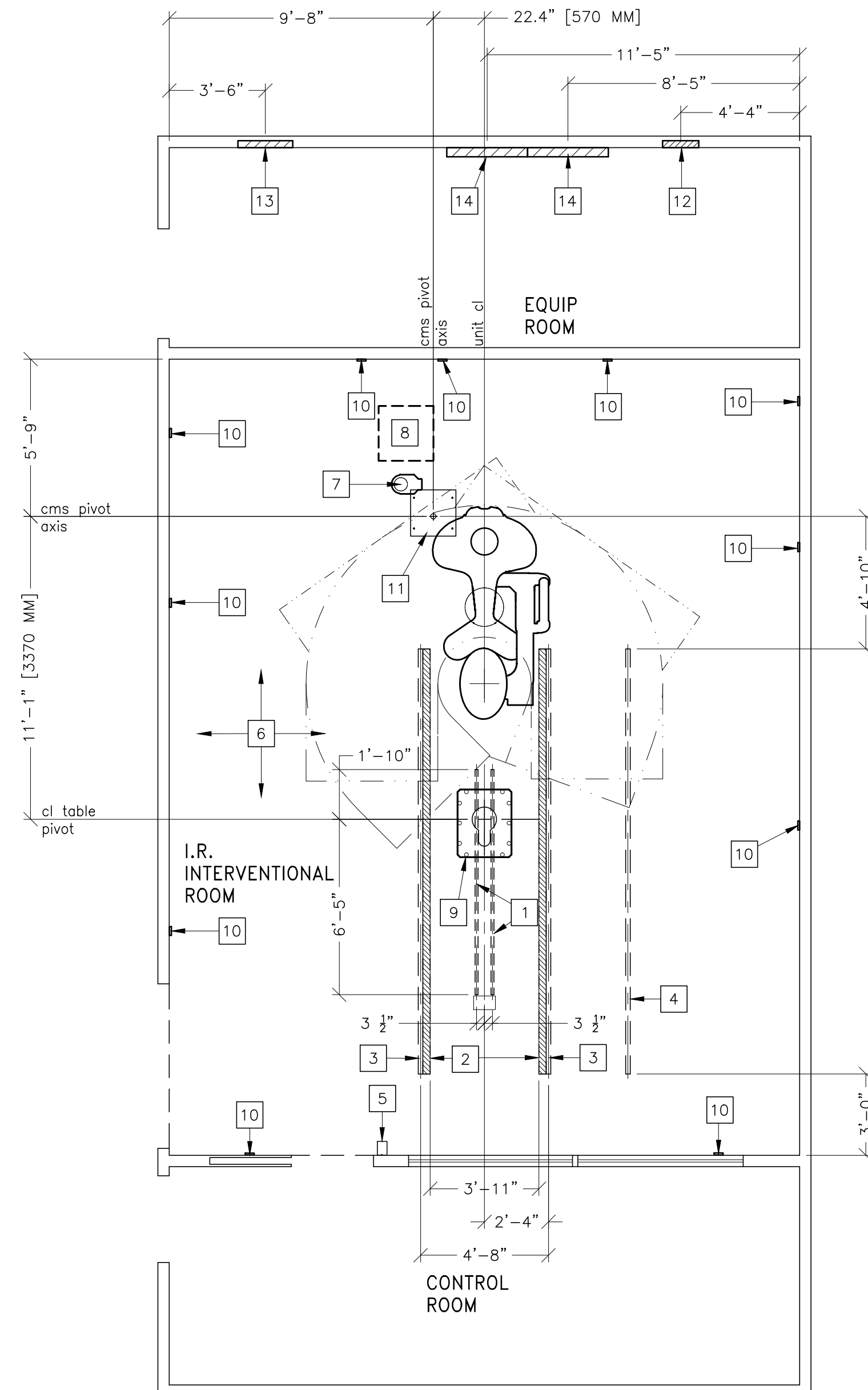
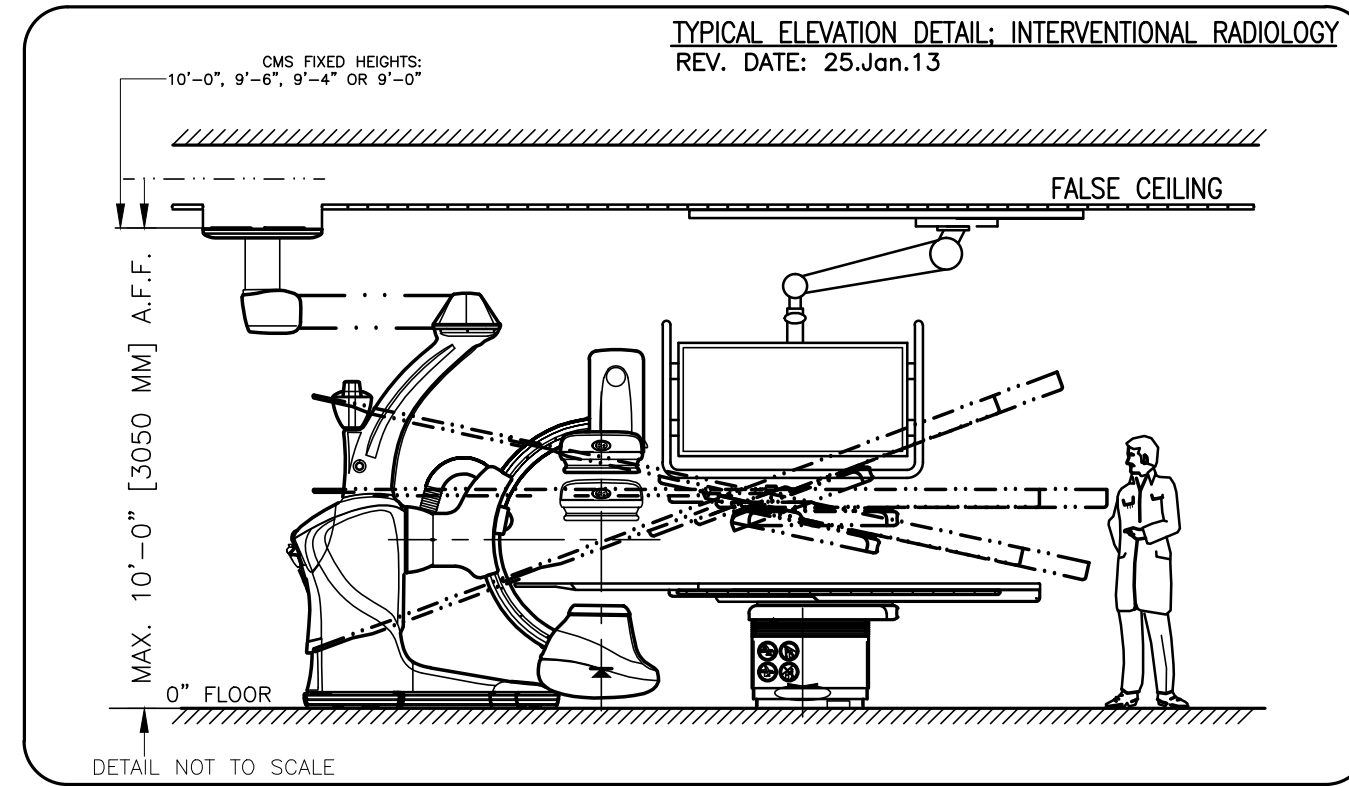
TYPICAL WALL SUPPORT ELEVATIONS



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

STRUCTURAL LAYOUT

REQUIRED CEILING HEIGHT = 9'-7" OR HIGHER



STRUCTURAL SUPPORT METHODS

ITEM NO.	ITEM DESCRIPTION (* INDICATES EXISTING)
1	UNISTRUT OR EQUIVALENT SUPPORTS FOR FASTENING THE OVERHEAD COUNTERPOISED SUSPENSION. SUPPORT TO BE LOCATED AS SHOWN. SUPPORT SHOULD RUN CONTINUOUS WITH NO FITTINGS EXTENDING BELOW FACE OF UNISTRUT CHANNEL. BE PARALLEL, SQUARE AND IN THE SAME HORIZONTAL PLANE. FINISHED CEILING SHALL BE FLUSH WITH THE FINISHED CEILING. RAILS ARE MOUNTED TO THESE SUPPORTS EVERY 24" PER BOLT. PERMIT ATTACHMENT TO THESE SUPPORTS AND REQUIREMENTS FOR BOLTS IN CONCRETE CONSTRUCTION SHOULD BE FAVORED. DO NOT USE SCREW ANCHORS IN DIRECT TENSION.
2	HATCHED AREA INDICATES MONITOR BRIDGE BEARING BLOCK PATH. NO CEILING MOUNTED EQUIPMENT SUCH AS SPRINKLER HEADS, LIGHTS, EXHAUST FANS ETC CAN BE PLACED IN THE HATCHED AREA.
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 SUPPORTS EVERY 24" PER BOLT. PERMIT ATTACHMENT TO THESE SUPPORTS AND REQUIREMENTS FOR BOLTS IN SEISMIC REGIONS PER BOLT LOAD. METHODS OF SUPPORT THAT PERMIT ATTACHMENT TO STRUCTURAL STEEL OR THROUGH BOLTS IN CONCRETE CONSTRUCTION SHOULD BE FAVORED. DO NOT USE SCREW ANCHORS IN DIRECT TENSION.
4	COMPONENTS FLUSH WITH CEILING. 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 SUPPORTS EVERY 24" PER BOLT. PERMIT ATTACHMENT TO THESE SUPPORTS AND REQUIREMENTS FOR BOLTS IN CONCRETE CONSTRUCTION SHOULD BE FAVORED. DO NOT USE SCREW ANCHORS IN DIRECT TENSION. CALL UNISTRUT WISCONSIN AT 866-796-8710.
5	MOUNT XR BUZZER BRACKET ON WALL. ABOVE CEILING
6	DISCOVERY IGS 730 IS NOT COMPATIBLE WITH TECHNICAL (RAISED) FLOORING. FINISH MATERIAL IS MANDATORY PRIOR TO INSTALLATION OF THE SYSTEM. COMPATIBLE FLOOR SYSTEM FOR DISCOVERY IGS 730: "MONIPUR 7MM" MONOLITHIC FLOORING SUPPLIED BY THE RPM COMPANY. CONTACT YOUR LOCAL REPRESENTATIVE FOR A LIST OF RPM CERTIFIED APPLICATORS OF THE FLOORING. FLOORING CONSISTS OF 4 LAYERS: 1. PRIMER LAYER 2. BULK LAYER 3. CONDUCTIVE ADHERENCE LAYER 4. SURFACE LAYER OF PU-CEMENT THREE COMPONENT MIX NO EXPANSION JOINT SHALL BE PRESENT IN THE CONCRETE IN THE AREA WHERE THE FLOORING SYSTEM WILL BE APPLIED. FLOOR CONDUCTIVITY SHALL BE IN AGREEMENT WITH LOCAL REGULATIONS. THE RESULTING FINISHED FLOOR SURFACE SHALL ALSO MEET THE FOLLOWING SPECIFICATIONS: 1. LEVELNESS 3mm/m 2. FLATNESS 3mm/m
7	CABLE MANAGEMENT SYSTEM (CMS). A SUPPORTING STRUCTURE IS THE RESPONSIBILITY OF CUSTOMER/CONTRACTOR. REFER TO DETAIL B20-085 AND B20-087 ON SHEET S2. THE SUPPORTING STRUCTURE (UNDER THE CUSTOMER CONTRACTOR RESPONSIBILITY) IS REQUIRED FOR THE CABLE MANAGEMENT SYSTEM (CMS).
8	CEILING SERVICE ACCESS PANEL (2 RECOMMENDED, 1 REQUIRED MAX. 12 IN. [300MM] FROM CMS MOUNTING PLATE)
9	AREA OCCUPIED BY GE SUPPLIED TABLE BASEPLATE
10	(1) REFLECTORS FOR GANTRY NAVIGATION SYSTEM. TARGETS SHOULD BE VISIBLE TO THE LASER SOURCE OF THE AGV AND THEREFORE SHOULD NOT BE MOUNTED ON MOVABLE SURFACES. (2) DOOR. SURFACES SHOULD NOT BE MOUNTED ON A SURFACE THAT COULD BE HIDDEN IN OPERATION BY DOOR OR MOVABLE COMPONENT. REFER TO ELEVATION DETAIL S107 FOR LASER TARGET RANGE FOR ADDITIONAL INFORMATION. SEE B20-084 ON SHEET S2 - TARGET HEIGHTS AND REFLECTOR SIZE. THE OPTIMIZATION OF THE TARGETS PLACEMENT WILL BE DONE DURING THE SYSTEM INSTALLATION, TO MAXIMIZE THEIR VISIBILITY VS. CEILING MOUNTED COMPONENTS (CAMERAS, LAMPS, ETC). THE MAXIMUM/MINIMUM TARGET HEIGHTS ARE 8300 MM (272' 5" IN) 2050 MM (68' 7" IN).
11	CUSTOMER SUPPLIED PLATE 20.5" [520MM] X 19.8" [502MM] SEE DETAILS B20-085 AND B20-087 ON SHEET S2
12	SUPPORT BACKING. LOCATE AS SHOWN. REFER TO ELEVATION DETAIL S115, FOR UPS INTERFACE BOX.
13	SUPPORT BACKING. LOCATE AS SHOWN. REFER TO ELEVATION DETAIL S107, FOR MAIN DISCONNECT CONTROL.
14	SUPPORT BACKING. LOCATE AS SHOWN. REFER TO ELEVATION DETAIL S100, FOR ATLAS CABINET.

STRUCTURAL NOTES

- ALL STEEL WORK AND PARTS NECESSARY TO SUPPORT CEILING MOUNTED TUBE HANGER 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.
- 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 AND DETAIL SHEETS FOR SUGGESTED LOCATIONS AND MOUNTING HOLE LOCATIONS.
- 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.
- CONTROL WALLS WITH TUBE HANGER PASSAGE ABOVE SHALL BE CONSTRUCTED TO 2130mm (7'-0") HIGH.
- FLOOR SLABS ON WHICH EQUIPMENT IS TO BE INSTALLED MUST BE LEVEL TO 3.17mm (1/8") IN 3050mm (10'-0")
- DIMENSIONS ARE TO FINISHED SURFACES OF ROOM.
- CUSTOMERS CONTRACTOR MUST PROVIDE ALL PENETRATIONS IN POST TENSION FLOORS. 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"

**GE Healthcare**  
Healthcare Project Implementation - Design Center  
Milwaukee, WI

SHEET TITLE: STRUCTURAL LAYOUT  
MODALITY TYPE: DISCOVERY IGS  
THIS PLAN IS SUBMITTED TO SURVEY LOCATION OF GE HEALTHCARE EQUIPMENT AND ASSOCIATED ELECTRICAL WIRING DETAILS AND ROOM ARRANGEMENTS. IN PREPARING THIS PLAN, EVERY EFFORT HAS BEEN MADE TO CONFORM TO DETAILS AND DIMENSIONS SHOWN ON THIS PLAN. GE HEALTHCARE DOES NOT ACCEPT LIABILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:  
**INTERVENTIONAL I.R. WITH ARM IMAGING**  
MILWAUKEE, WISCONSIN

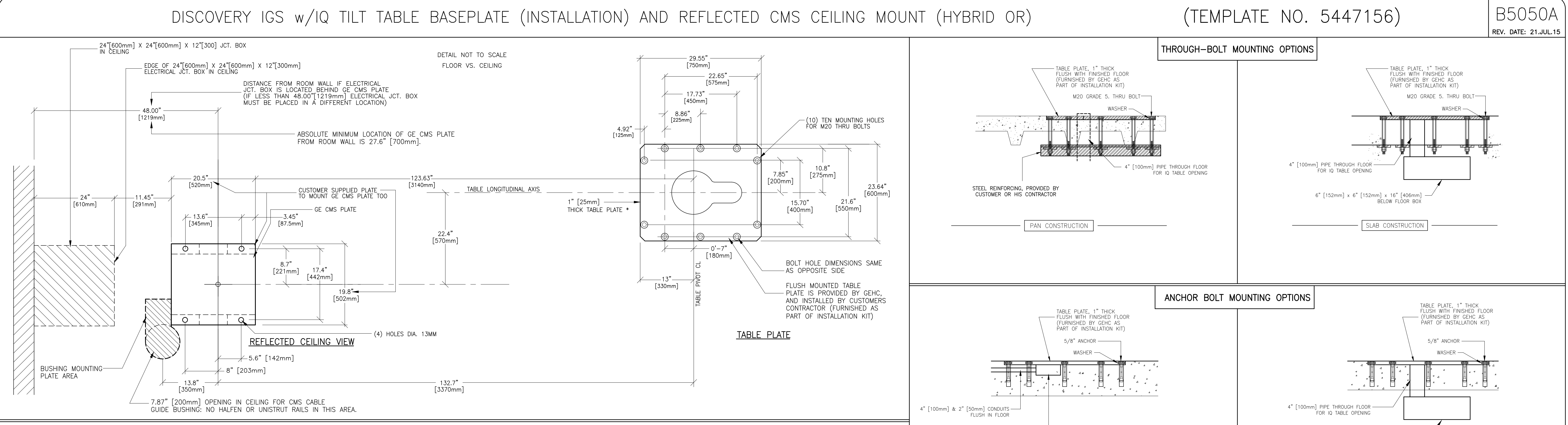
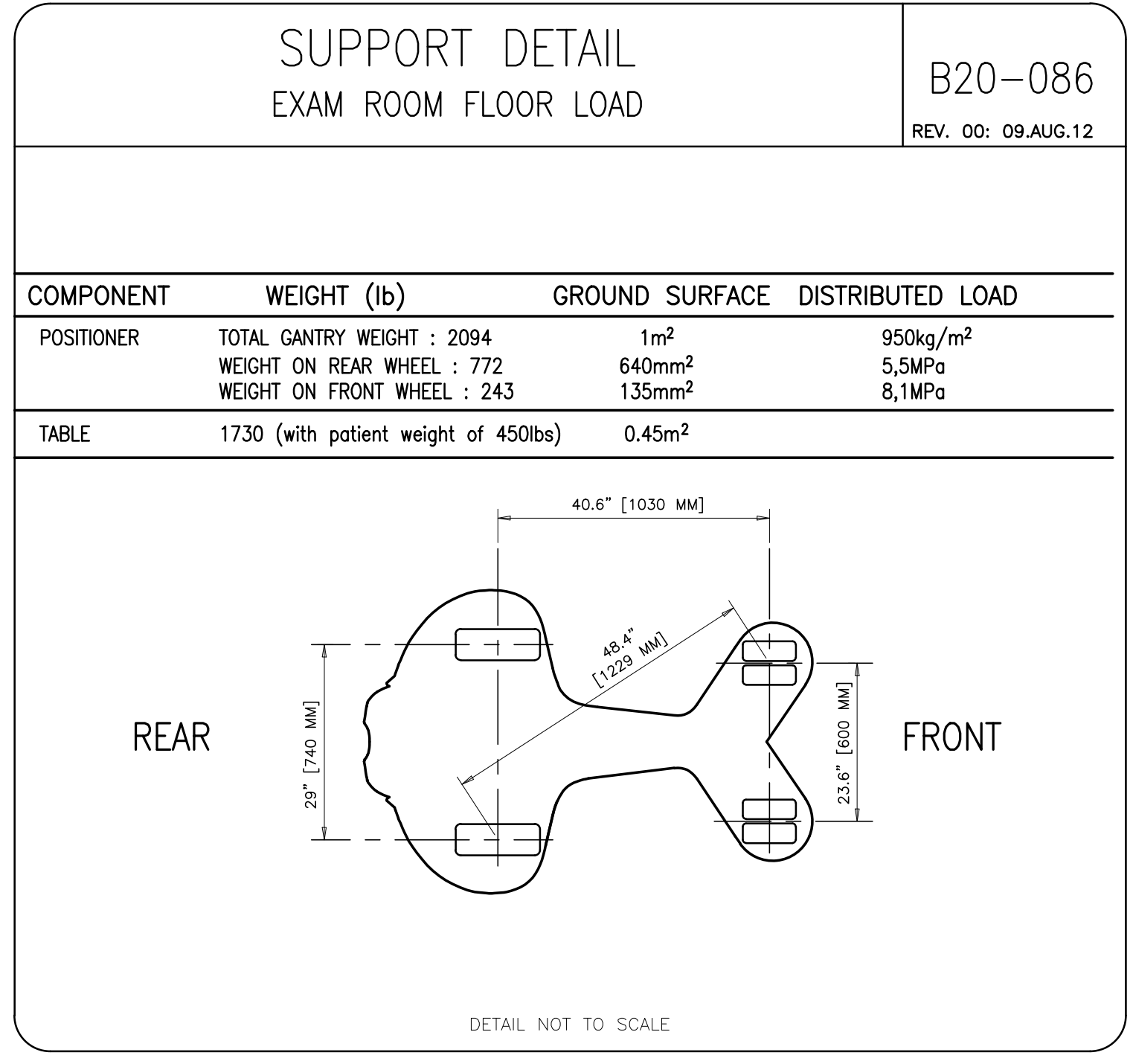
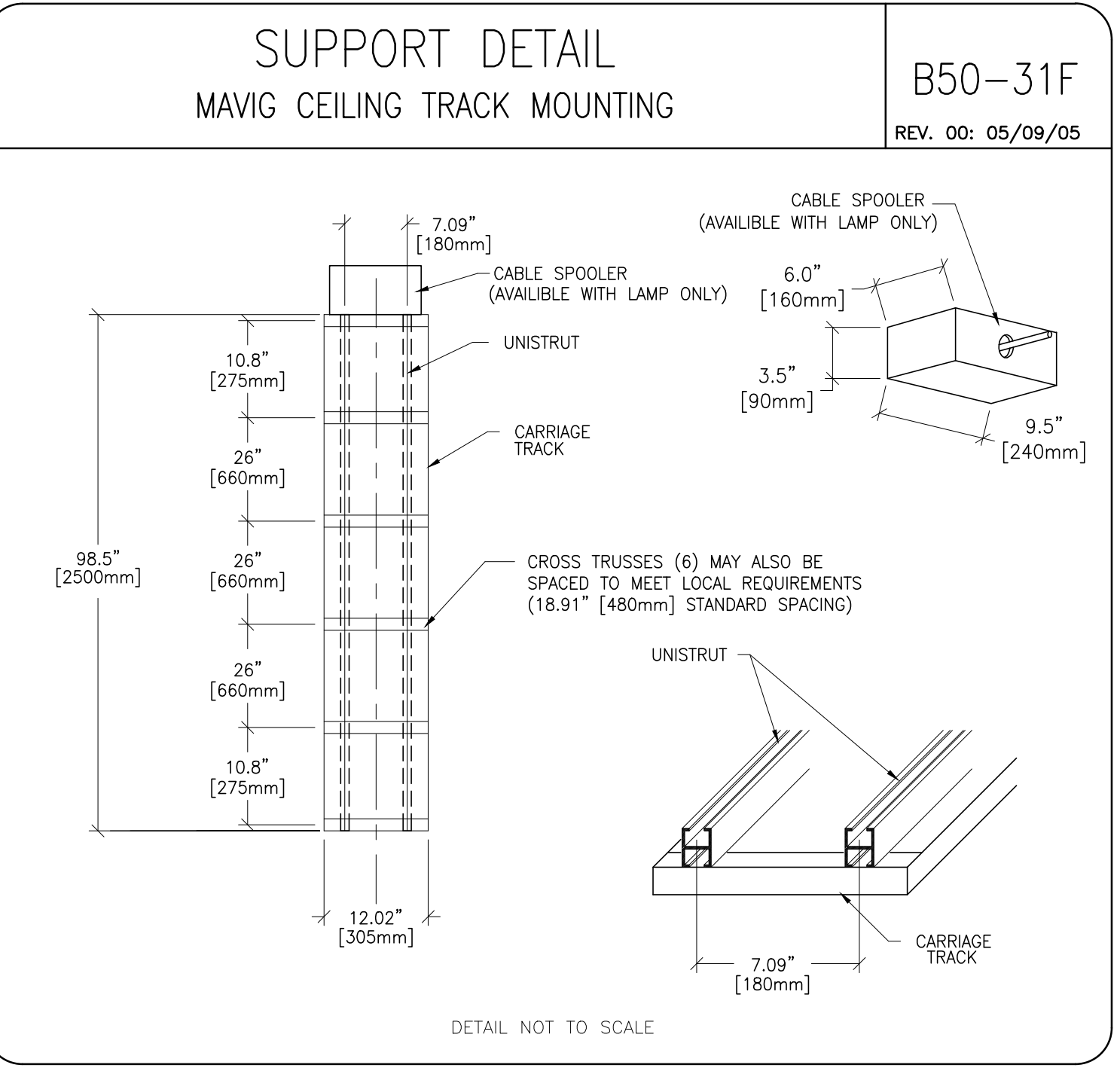
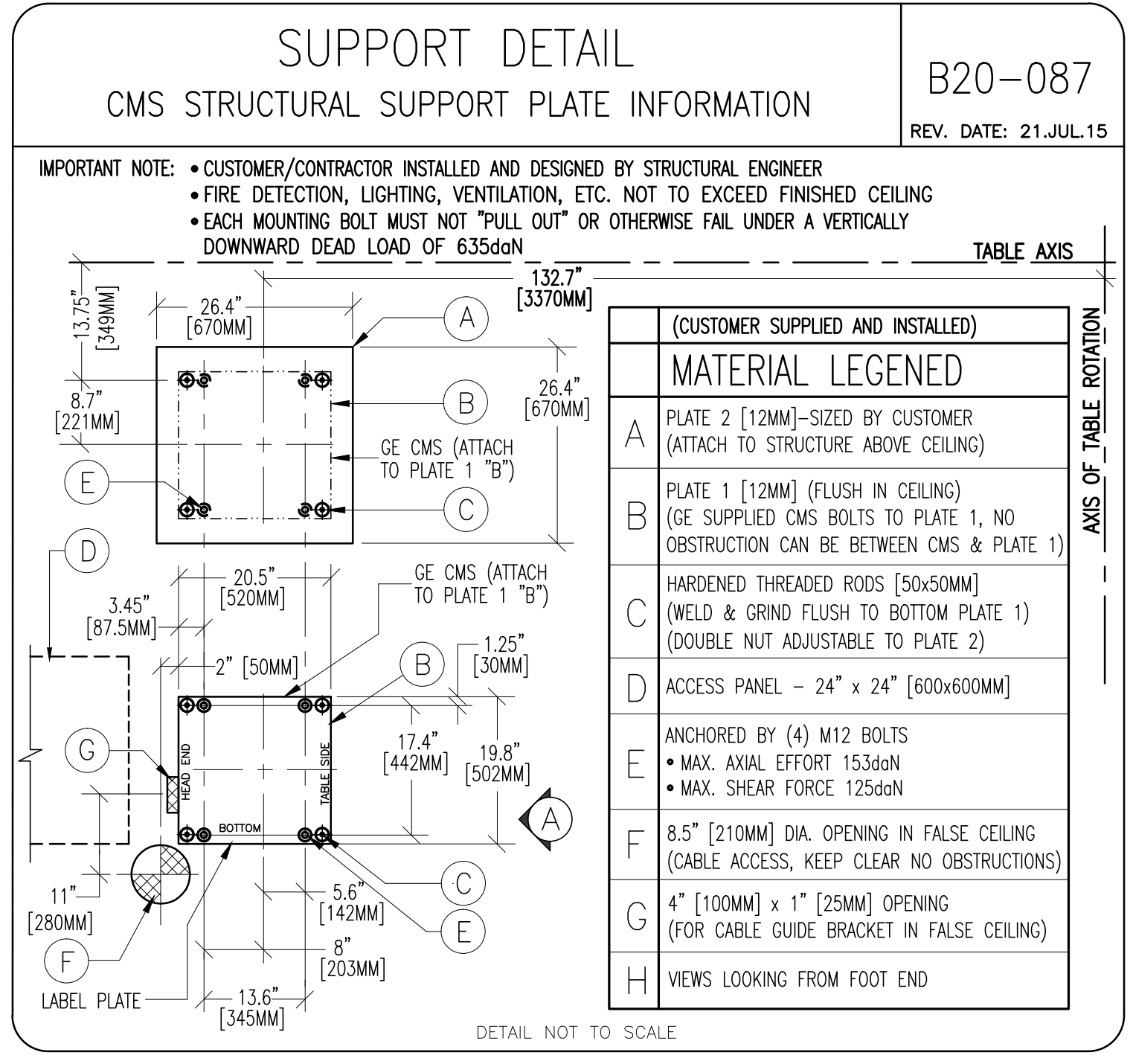
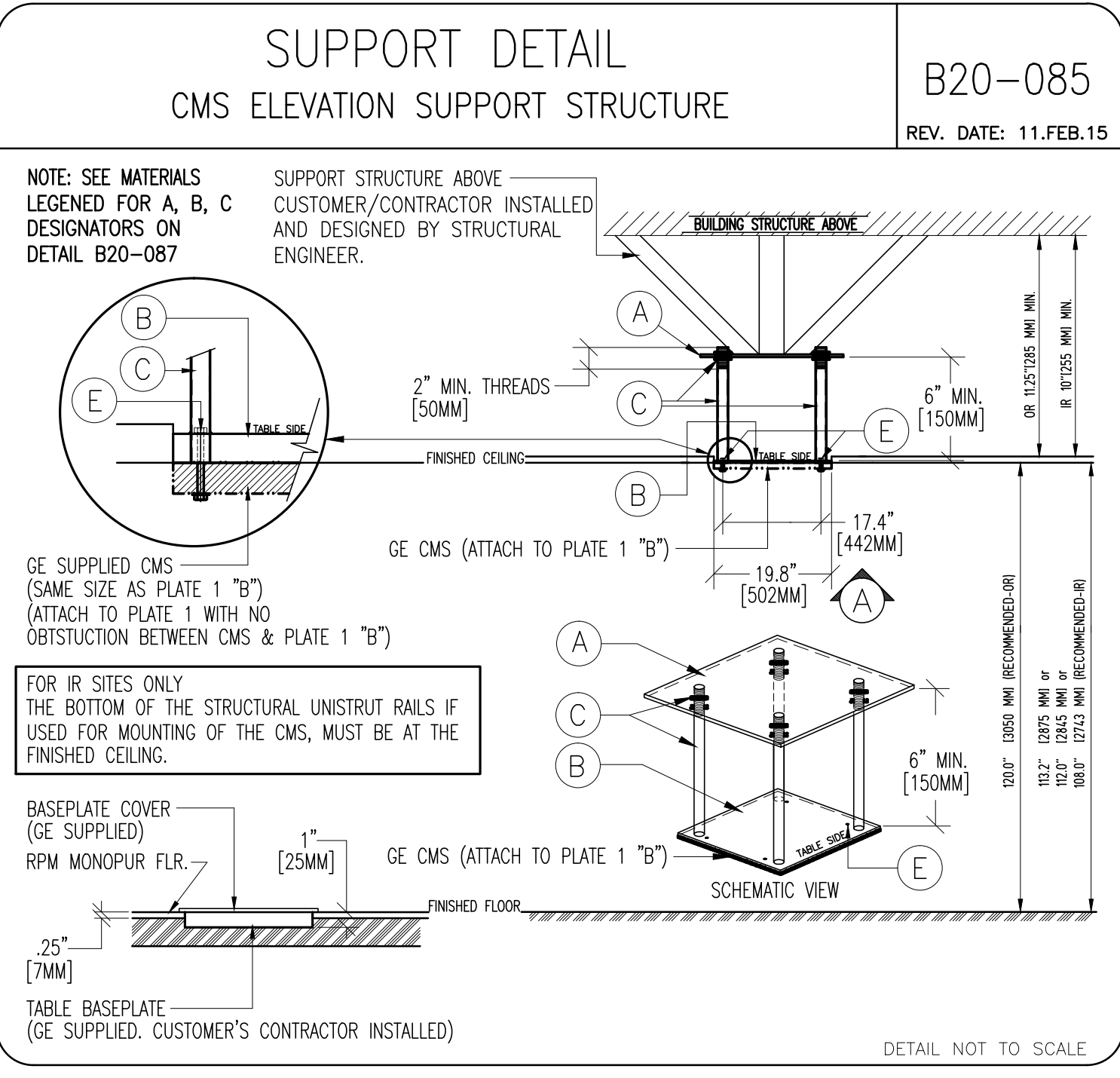
PROJECT	REVISION
4-96f	01

DATE: 22.Oct.15  
DRAWN BY: SLR  
CHECKED BY: TST

REVISION HISTORY:


SHEET  
**S1**

GE Project Manager: TYP\_FINAL DC  
Telephone: -  
THE GE HR TECHNICAL SUPPORT GROUP IS AN ADDITIONAL RESOURCE THAT CAN PROVIDE ANSWERS FOR GENERAL GE PRODUCT SPRING QUESTIONS AND CAN BE REACHED AT (877)-305-9677 OR MAILTO:HRTECH@GE.COM



**WARNING!! THE CMS FIXATION POINT IS IN A FIXED POSITION WITH RESPECT TO THE TABLE POSITION, AS SHOWN IN THE DRAWING ABOVE:**

PRIOR TO DRILLING MOUNTING HOLES CONTACT LOCAL GE HEALTHCARE INSTALLATION PROJECT MANAGER OR LEAD FIELD ENGINEER TO VERIFY THAT THE PROPER FULL SIZE FLOOR MOUNTING TEMPLATE IS USED.

**Customer/Contractor Alert:** It is the responsibility of the Customer or their Contractor to drill all anchor/thru-bolting holes for anchoring the table to the floor. Contact your local GE Project Installation Manager for the latest Preinstallation details.

**NOTE: THRU BOLTING IS HIGHLY PREFERRED FOR THE INSTALLATION OF THE TABLE.**  
HARDENED BOLTS AND 4" x 4" [102mm x 102mm] STEEL PLATES TO BE USED ARE SUPPLIED BY GE HEALTHCARE AS INDICATED ON THE ACTUAL DETAIL DRAWING. BE ADVISED, HOWEVER, THAT ADDITIONAL SUPPORT STRUCTURES: STEEL BEAMS, PLATES, CORE BORING OF MOUNTING HOLES, ETC., ARE TO BE SUPPLIED AND INSTALLED BY THE CUSTOMER OR THEIR CONTRACTOR.

**NOTE:** IF THRU BOLTING IS NOT POSSIBLE, FLOOR ANCHORS CAN BE USED IF APPROVED BY CUSTOMERS STRUCTURAL ENGINEER. FOR ON GRADE INSTALLATIONS, MOUNTING KIT CAT. NO. 2286398 BE ORDERED. ANCHORS INCLUDED IN KIT SHOULD BE APPROVED BY CUSTOMERS STRUCTURAL ENGINEER. **NOTE: BASEPLATES MUST BE LEVEL WITHIN 1/32" [0.79mm]**

**TILT TABLE BOLT FORCES FOR WORST CASE CONDITIONS**

LOADS	
BOLT TENSION	BOLT SHEAR
MAXIMUM TENSION = 1938 lbs. [880 Kg]/BOLT	MAXIMUM SHEAR = 407 lbs. [185 Kg]/BOLT

**GE Healthcare**  
Healthcare Project Implementation - Design Center  
Milwaukee, Wisconsin

SHEET TITLE: STRUCTURAL DETAILS  
MODALITY TYPE: DISCOVERY IGS

THIS PLAN IS SUBMITTED TO SURVEY LOCATION OF GE HEALTHCARE EQUIPMENT AND ASSOCIATED ELECTRICAL WIRING DETAILS AND ROOM ARRANGEMENTS. IN PREPARING THIS PLAN, EVERY EFFORT HAS BEEN MADE TO CONFORM TO DETAILS AND DIMENSIONS SHOWN ON THE DRAWING. THE COMPANY CANNOT ACCEPT LIABILITY FOR ANY DAMAGES RESULTING THEREFROM.

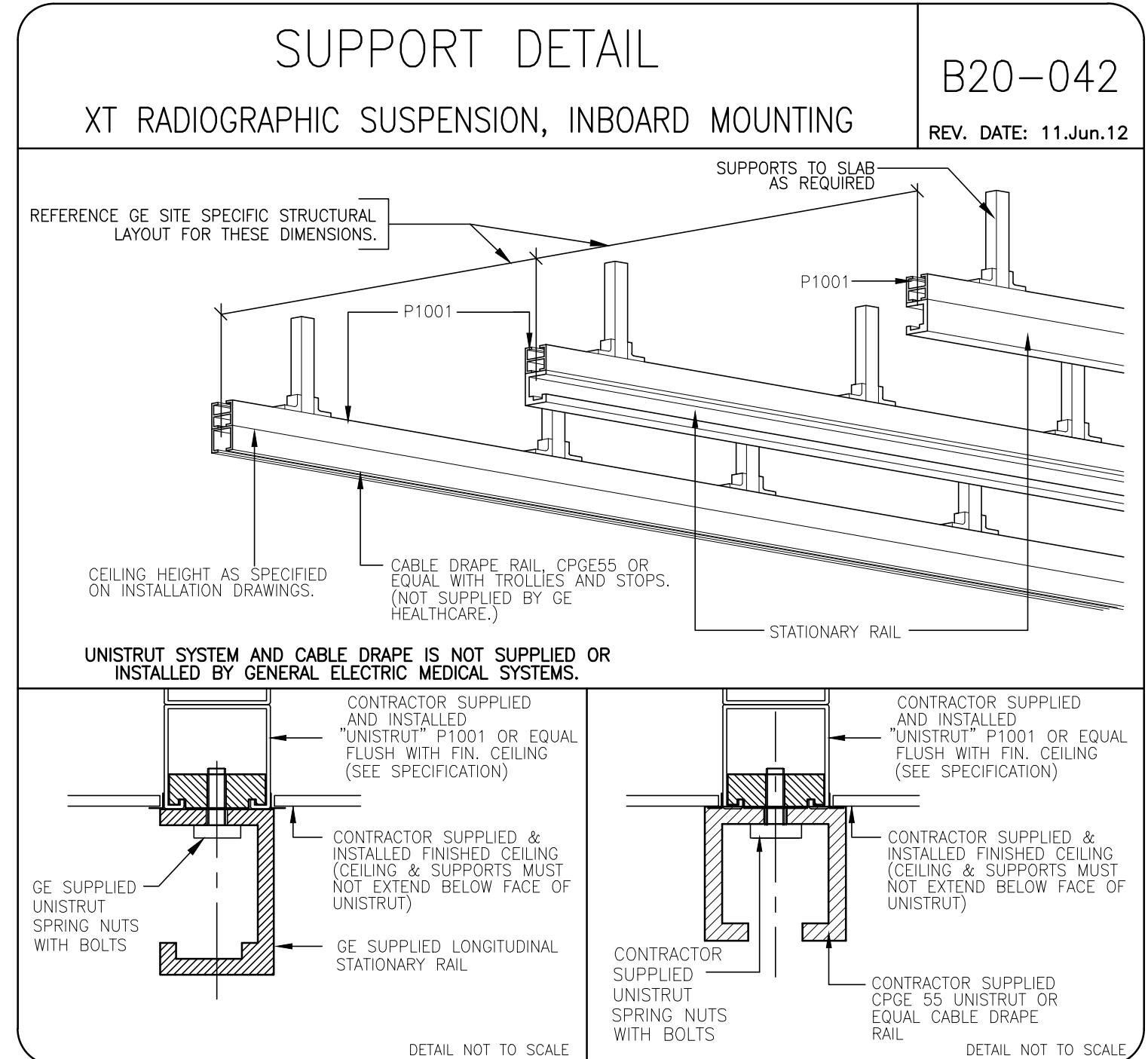
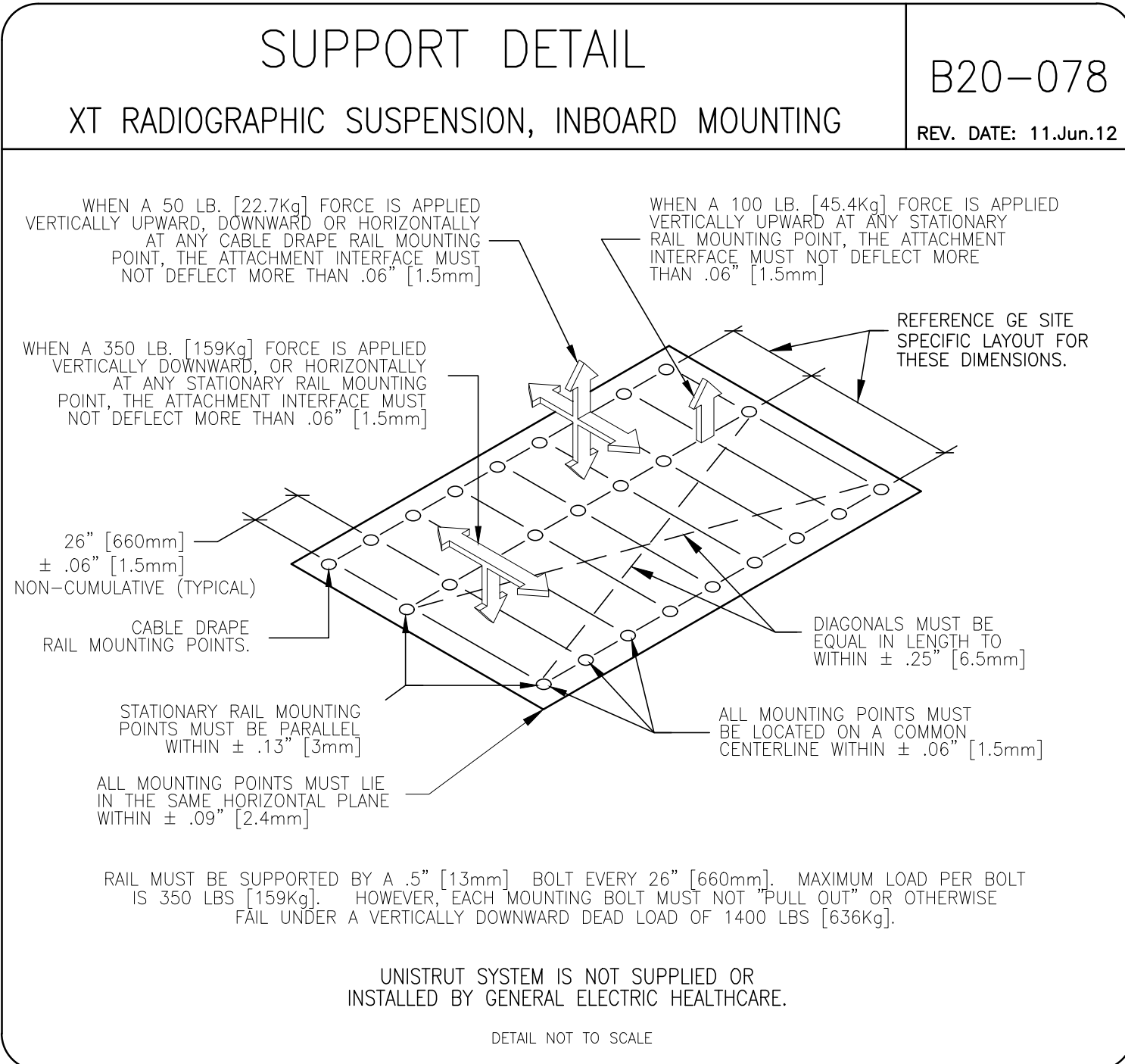
PROJECT TITLE:  
**INTERVENTIONAL I.R. WITH ARM IMAGING**  
MILWAUKEE, WISCONSIN

PROJECT	REVISION
4-96f	01

DATE: 22.Oct.15  
DRAWN BY: SLR  
CHECKED BY: TST

REVISION HISTORY:


SHEET  
**S2**



**GE Healthcare**  
 Healthcare Project Implementation - Design Center  
 Milwaukee, Wisconsin

SHEET TITLE: **DISCOVERY IGS**  
 MODALITY TYPE: **DISCOVERY IGS**

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 TO THE MANUFACTURER'S INSTRUCTIONS TO THE USER AND THE COMPANY CANNOT ACCEPT ANY LIABILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:  
**INTERVENTIONAL I.R. WITH ARM IMAGING**  
 MILWAUKEE, WISCONSIN

PROJECT	REVISION
4-96f	01
DATE:	22.Oct.15
DRAWN BY:	SLR
CHECKED BY:	TST

REVISION HISTORY:

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SHEET  
**S3**

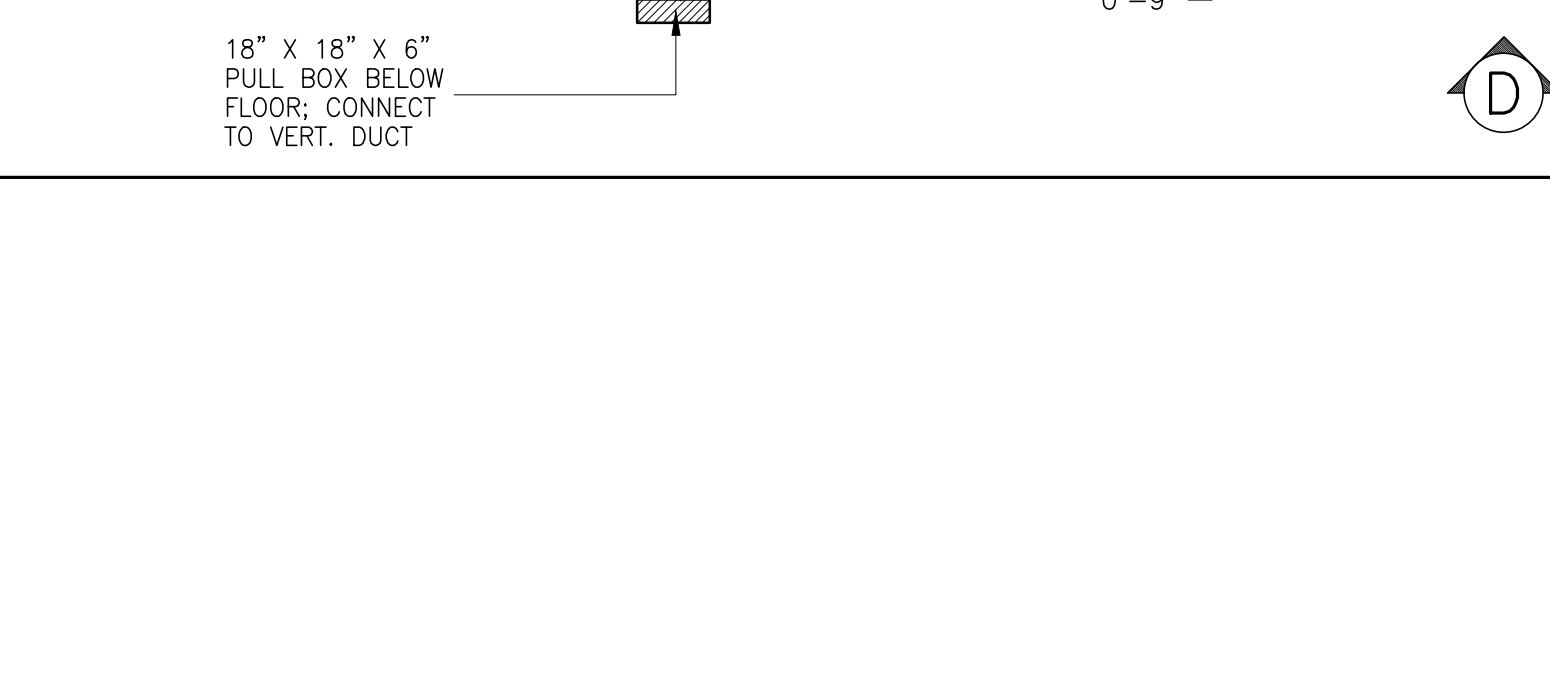
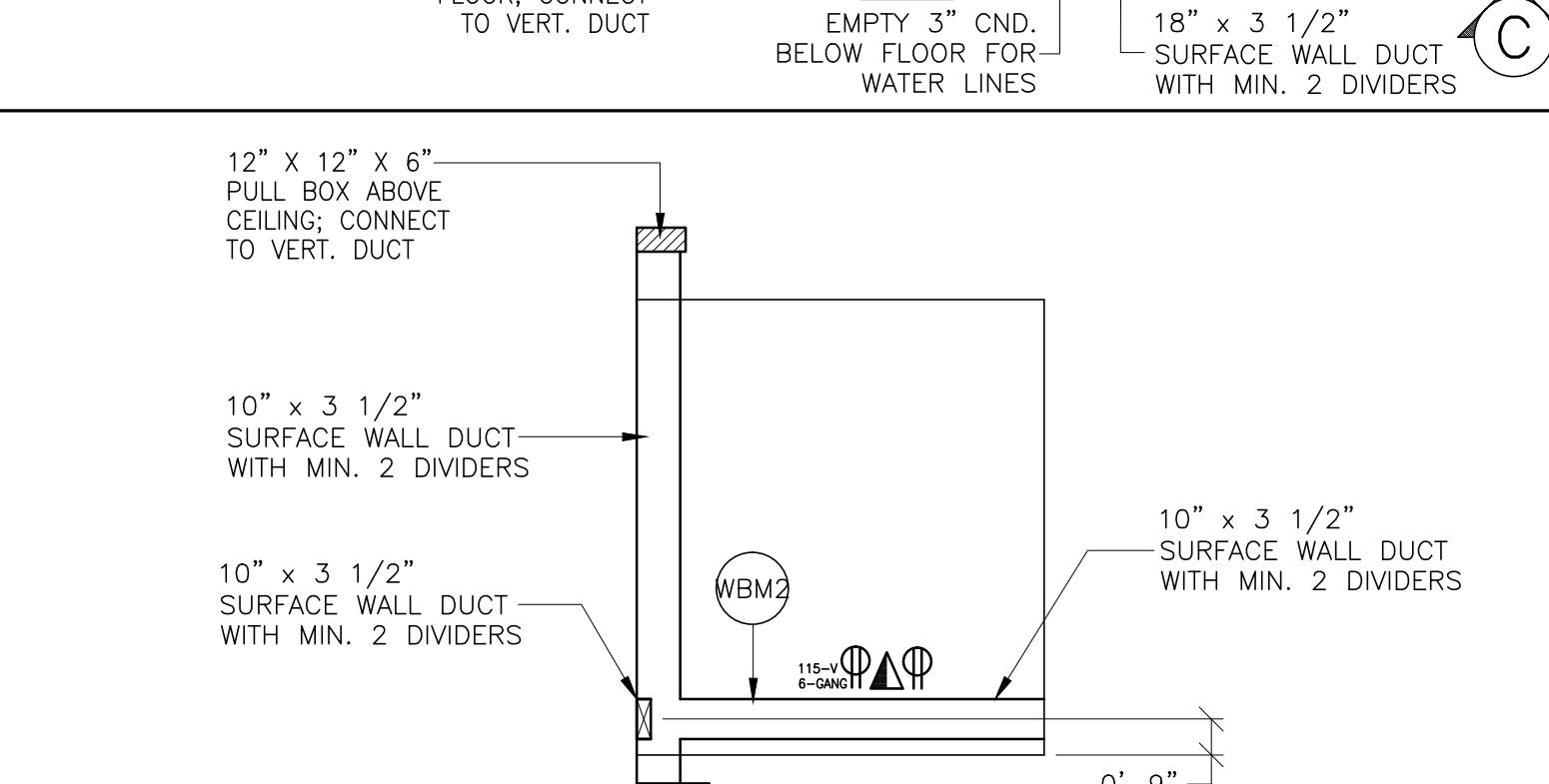
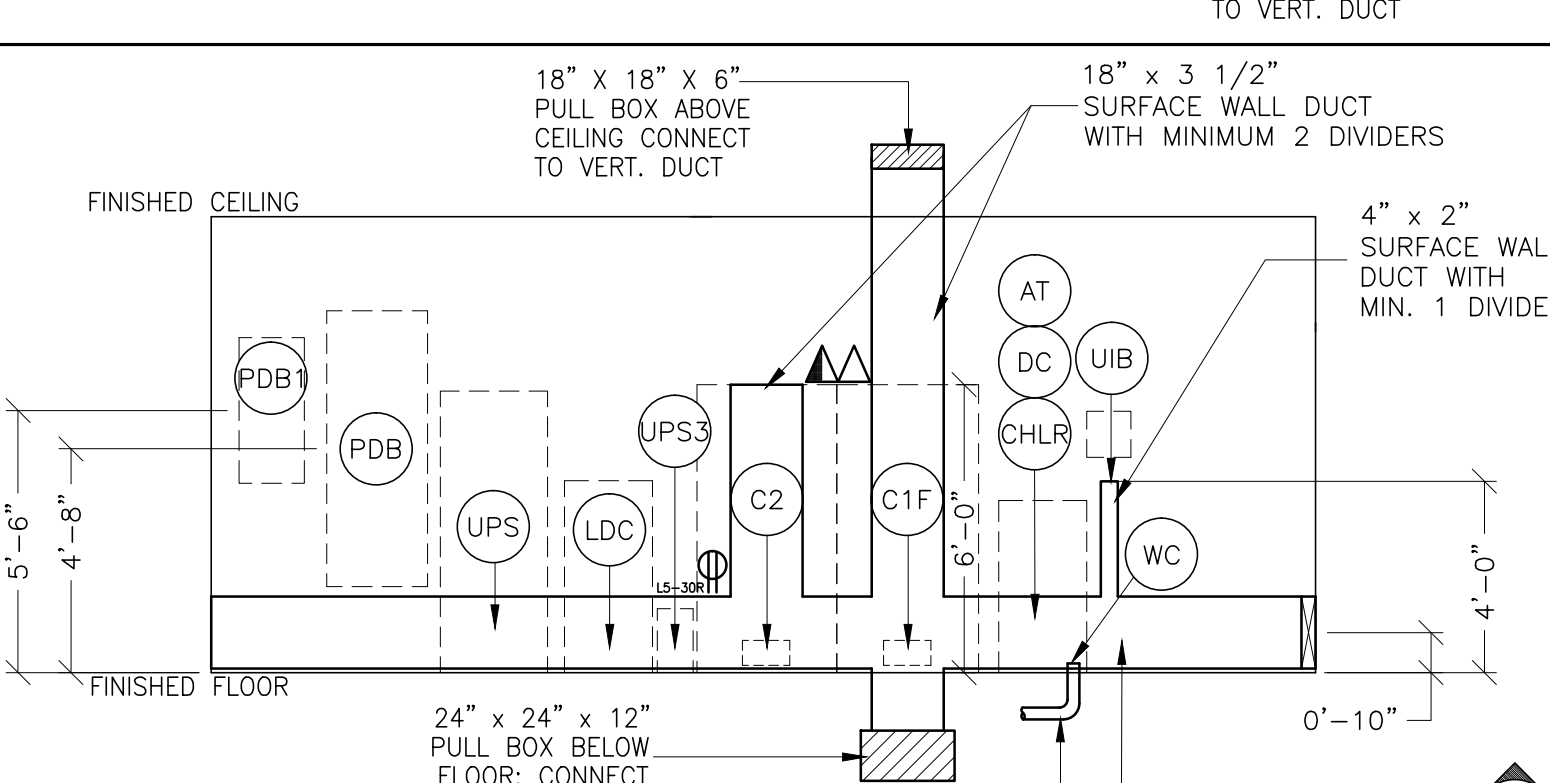
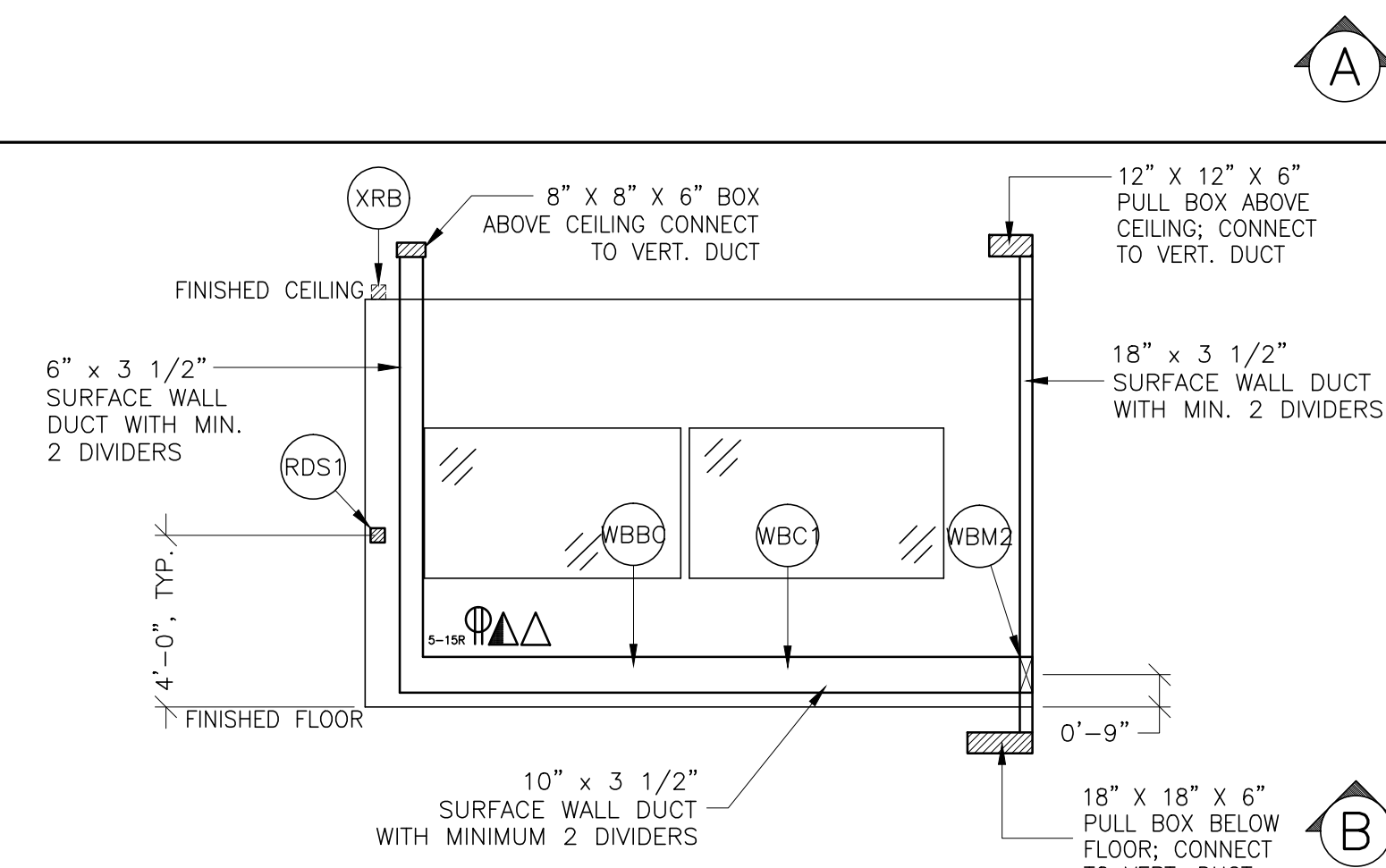
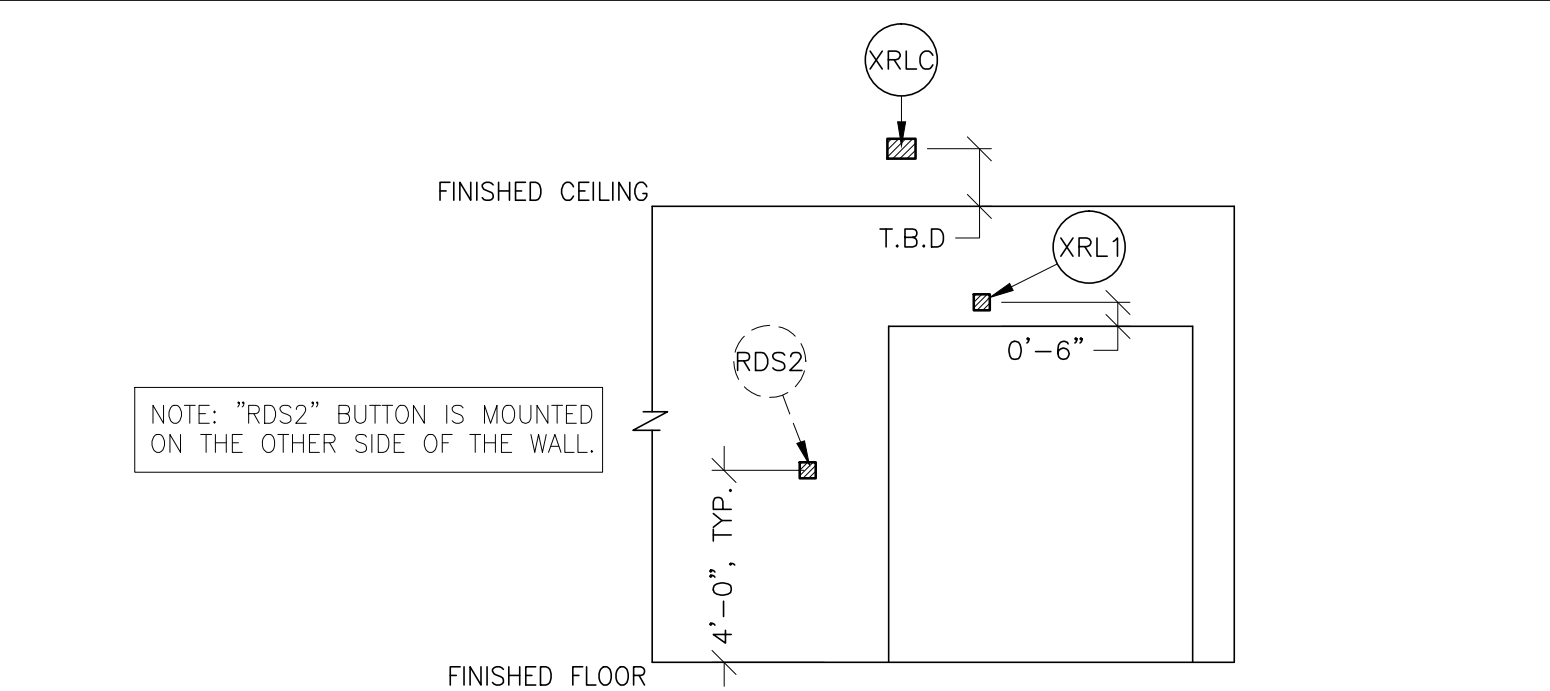
PIM R1  
 RQ - 155703

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

ELECTRICAL PLAN

REQUIRED CEILING HEIGHT = 9'-7" OR HIGHER

JUNCTION POINT DESCRIPTIONS



**ELECTRICAL OUTLET LEGEND**

CUSTOMER/CONTRACTOR SUPPLIED AND INSTALLED ITEMS. HEIGHT ABOVE FLOOR DETERMINED BY LOCAL CODES UNLESS OTHERWISE SPECIFIED.

- Ⓢ DUPLEX HOSPITAL GRADE, DEDICATED WALL OUTLET 120-V, SINGLE PHASE POWER
- Ⓢ DEDICATED TELEPHONE LINE (SEE ELECTRICAL DETAIL ELEC-1 OR ELEC-67)
- Ⓢ NETWORK OUTLET (SEE ELECTRICAL DETAILS ELEC-83 AND ELEC-84 OR ELEC-87)
- Ⓢ 5-15R NEMA RECEPTACLE, DEDICATED OUTLET 120-V, SINGLE PHASE POWER
- Ⓢ DUPLEX HOSPITAL GRADE, DEDICATED OUTLET 120-V EMERGENCY, SINGLE PHASE POWER, 15A
- Ⓢ 6-GANG HOSPITAL GRADE, DEDICATED WALL OUTLET 115-V, SINGLE PHASE POWER
- Ⓢ NEMA 15-30R RECEPTACLE, DEDICATED OUTLET 120-V, SINGLE PHASE POWER

CONTACT YOUR LOCAL CARDIO VASCULAR PROJECT MANAGER, INSTALLATIONS (CVPM) FOR ANY MODIFICATIONS TO ROOM LAYOUT.

BEFORE PROCEEDING WITH INSTALLATION OF CEILING MOUNTED FIXTURES, PLEASE REFER TO STRUCTURAL SHEET S1 FOR LOCATIONS OF UNISTRUT AND OTHER STRUCTURAL SUPPORTED EQUIPMENT IN CEILING.

NOTE: SUGGESTION THAT COLOR CODED PHASE CABLEING BE USED EITHER BY COLORED WIRES OR COLORED TAPE.

A COMPLETE REVIEW OF ELECTRICAL OPTIONS MUST BE DISCUSSED WITH YOUR GE PROJECT MANAGER OF INSTALLATIONS, BEFORE BIDDING BEGINS.

**CONDUIT RUNS: DISCOVERY IGS 730**

**CONDUITS REQUIRED FOR BASE SYSTEM (CONDUITS ARE LOCATED ABOVE CEILING)**

CMS TO C1F/C2 FOUR 4" CNDS. REV DATE: 09.AUG.12  
USABLE CABLE LENGTH 42'-8" (13M)

**CONDUITS REQUIRED FROM POINT "WBM1"/LDM (CONDUITS ARE LOCATED ABOVE CEILING) - LARGE DISPLAY MONITOR OPTION -**

WBM1 TO C1F TWO 2 1/2" CNDS. (UP TO FOUR MONITOR SUBSYSTEMS) USABLE CABLE LENGTH 100 FT. REV DATE: 23.OCT.12  
LDM TO LDC ONE 3" & ONE 3/4" CND. CABLE LENGTH 100 FT.  
LDC TO WBC1 TWO 3" CNDS.  
LDC TO TRAM TWO 3" CNDS. (RAN TO FLOOR BOX FOR PHYSIO)

**CONDUITS REQUIRED FOR BASE SYSTEM (CONDUITS ARE LOCATED BELOW FLOOR)**

LUS TO C1F/C2 TWO 4" CNDS. REV DATE: 09.AUG.12  
USABLE CABLE LENGTH 42'-8" (13.2M)

WBC1 TO C1F/C2 ONE 3 1/2" & TWO 2 1/2" CNDS. USABLE CABLE UP TO 67' (19M)

**CONDUITS REQUIRED FROM POINT "XRLC" (CONDUITS ARE LOCATED ABOVE CEILING)**

XRLC TO XRL1 ONE 1/2" CND. REV DATE: 17.MAY.12  
XRLC TO C2 ONE 1/2" CND.  
XRLC TO 120-V 1Φ POWER CND. AS REQ'D

**CONDUITS REQUIRED FROM POINT "WBC" (CONDUITS ARE LOCATED BELOW FLOOR)**

WBC TO LUS ONE 2 1/2" CND. CABLE LENGTH 80' (24.6M)

**CONDUITS REQUIRED FROM POINT "XRB" (CONDUITS ARE LOCATED ABOVE CEILING)**

XRB TO C1F ONE 3/4" CND. REV DATE: 17.MAY.12

**CONDUITS REQUIRED FROM POINT "LMP" (CONDUITS ARE LOCATED ABOVE CEILING)**

LMP TO 120-V 1Φ POWER CND. AS REQ'D REV DATE: 10/01/08

**CONDUITS REQUIRED FROM POINT "WC" (CONDUIT IS LOCATED ABOVE CEILING)**

WC TO CMS ONE EMPTY 3" CND. (FOR WATER LINES) REV DATE: 17.MAY.12

**CONDUITS REQUIRED FROM POINT "PDB" (CONDUITS ARE LOCATED ABOVE CEILING) \*CABLES THAT COULD RUN IN DUCT SYSTEM INSTEAD**

PDB TO UPS \*TWO CNDS. AS REQ'D. REV DATE: 09.AUG.12  
PDB TO UIB \*ONE 1 1/2" CND. USABLE CABLE LENGTH TO (21.3M)  
PDB TO RDS1 ONE 1/2" CND.  
PDB TO RDS2 ONE 1/2" CND.  
PDB TO C1F \*TWO 2 1/2" CNDS. FOR FOUR CUSTOMER SUPPLIED POWER / GROUND RUNS (AND GE SUPPLIED SIGNAL CABLES) CABLE LENGTH 70' (21M)  
PDB TO PDB1 ONE CND. AS REQ'D.  
PDB1 TO 480-V 3Φ POWER CND. AS REQ'D

**CONDUIT RUNS: PHYSIO MONITORING/ IVUS**

PC TO WBM1 ONE 3" CND. (LOCATED ABOVE CEILING) REV DATE: 17.MAY.12  
PC/WJS TO TRAM TWO 3" CNDS. (LOCATED IN/BELOW FLOOR)

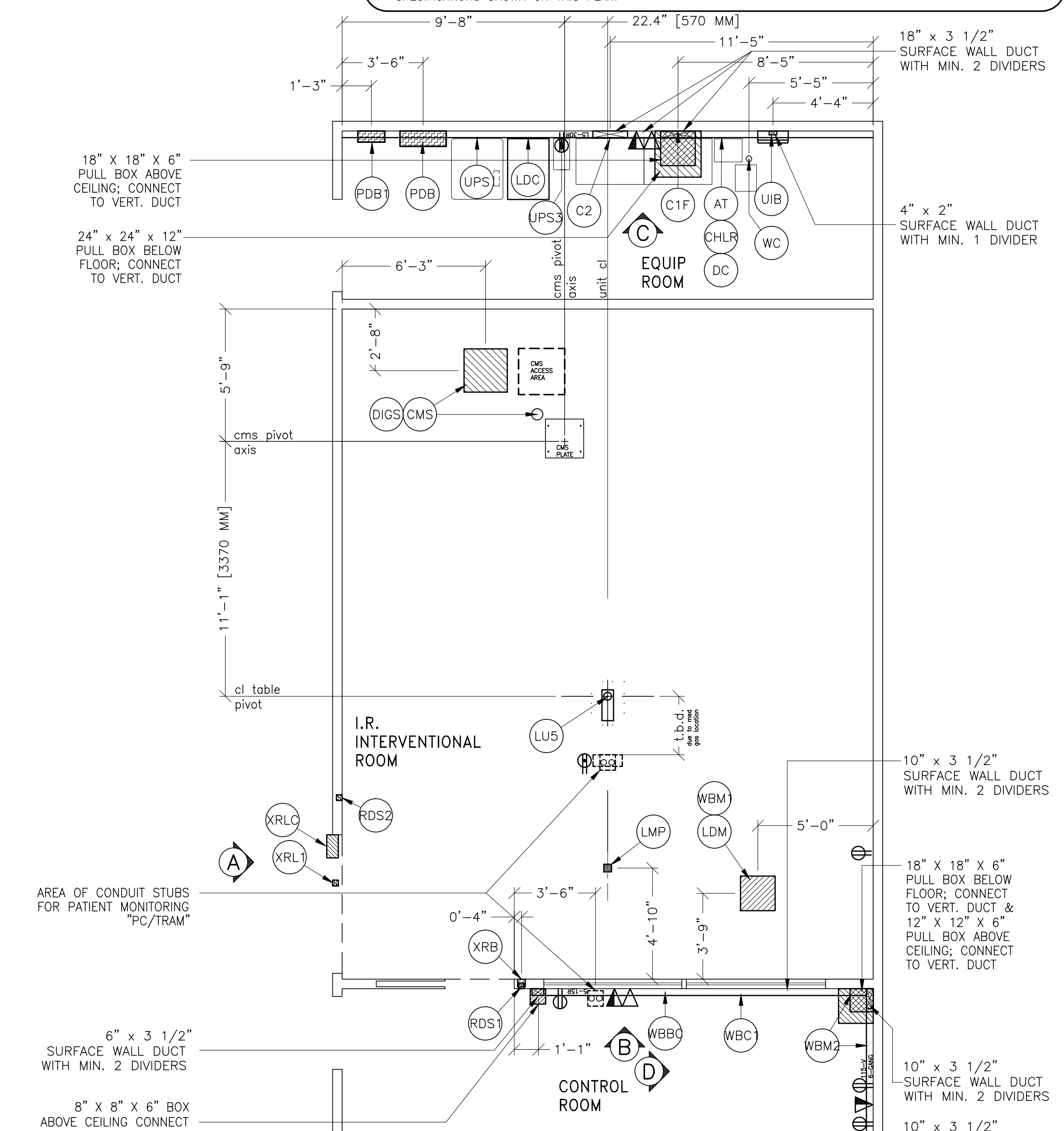
**FEEDER TABLE** REV. DATE: 10.AUG.12

\* CALCULATIONS BASED UPON NOMINAL VOLTAGE, WIRE SIZE IN AWG.  
\* RECOMMENDED FEEDER SIZES FROM DIST. SOURCE TO ROOM DISCONNECT. CALCULATIONS ARE AT NOMINAL VOLTAGE BASED UPON 1/0 WIRE SIZE FROM ROOM DISCONNECT TO POWER CABINET WITH A MAXIMUM RUN OF 25 FT.  
\* NEUTRAL MUST BE TERMINATED INSIDE THE MAIN DISCONNECT PANEL AND NOT AT ANY GE CABINET.  
\* THE GROUNDING CONDUCTOR ( ) WILL BE A 2 AWG MINIMUM OR MEET LOCAL CODE REQUIREMENTS, WHICHEVER IS LARGER. THIS GROUNDING WILL RUN FROM THE EQUIPMENT BACK TO THE POWER SOURCE/MAIN GROUNDING POINT AND ALWAYS TRAVEL IN THE SAME CONDUIT WITH THE FEEDERS AND NEUTRAL.  
\* MINIMUM WIRE SIZE FOR CIRCUIT BREAKER, BASED ON RECOMMENDED OVERCURRENT PROTECTION.  
\* FOR A FULL SYSTEM UPS, REFER TO ELECTRICAL DETAILS FOR UPS FEEDER WIRES.  
\* IF THE FEEDER IS BIGGER THAN 3/0, THE HOSPITAL MUST PROVIDE AND INSTALL A REDUCTION BOX.

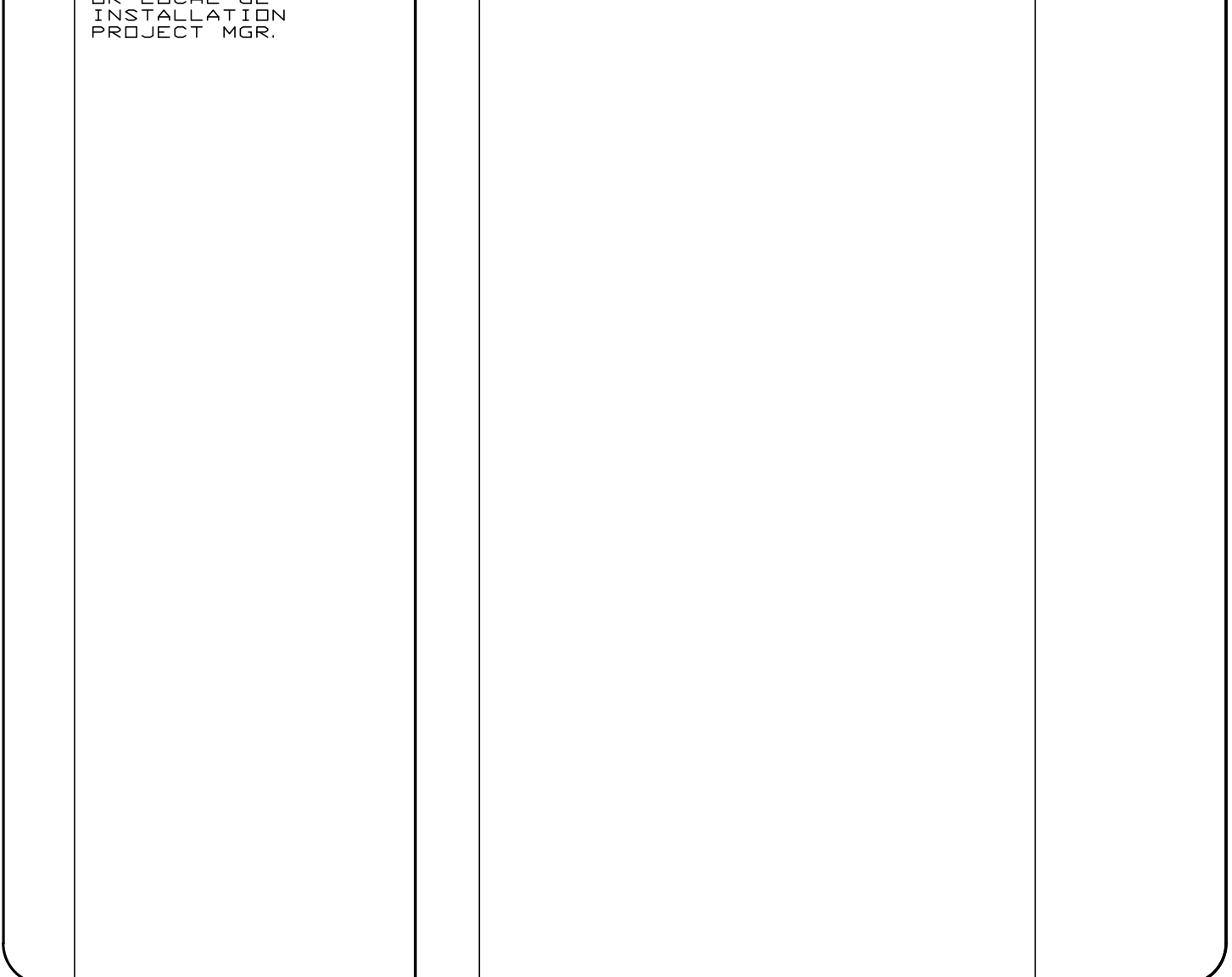
RUN LENGTH IN FEET	POWER SUPPLY VOLTAGE			
	342-418 380	360-440 400	378-462 415	432-528 480
50	FEEDER GROUND	FEEDER GROUND	FEEDER GROUND	FEEDER GROUND
100	*1/0 (2)	*1/0 (2)	*1/0 (2)	*1/0 (2)
150	*1/0 (2)	*1/0 (2)	*1/0 (2)	*1/0 (2)
200	2/0 (2)	2/0 (2)	1/0 (2)	*1/0 (2)
250	4/0 (2)	3/0 (2)	3/0 (2)	1/0 (2)
300	300M (2)	250M (2)	4/0 (2)	3/0 (2)
350	350M (2)	300M (2)	300M (2)	4/0 (2)
400	900M (2)	400M (2)	350M (2)	4/0 (2)
450	600M (2)	500M (2)	400M (2)	300M (2)

**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 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 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 PITGALS AT ALL JUNCTION POINTS.
- ALL WIRING MUST BE THIN 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 SPECIFICATIONS SHOWN ON THIS PLAN.



POINT	DESCRIPTION	QTY.	HARDWARE	DETAIL NO., SHT. E3
AT	COOLIX 4100 WATER TRANSFORMER	1	EXTERNALLY CONNECTED TO 'CHLR'	
C1F	ATLAS CABINET	1	32 IN. OF GROMMET MATERIAL FOR AN 8 X 8 IN. OPENING IN DUCT COVER	ELEC-5 ELEC-6
C2	ATLAS CABINET	1	32 IN. OF GROMMET MATERIAL FOR AN 8 X 8 IN. OPENING IN DUCT COVER	ELEC-5 ELEC-6
CHLR	COOLIX 4100 WATER CHILLER	1	12 IN. OF GROMMET MATERIAL FOR A 3 X 3 IN. OPENING IN DUCT COVER	ELEC-5 ELEC-6
CMS	CABLE MANAGEMENT SYSTEM	1	COVERPLATE 54 X 24 X 12IN. FLUSH CEILING BOX DIVIDING PARTITION	ELEC-8
DC	DETECTOR CHILLER	1	12 IN. OF GROMMET MATERIAL FOR A 3 X 3 IN. OPENING IN DUCT COVER	ELEC-5 ELEC-6
DIGS	DISCOVERY IMAGE GUIDED SYSTEM	1	EXIT POINT AT 'CMS' (CABLE MANAGEMENT SYSTEM) IN CEILING	
LDC	LARGE DISPLAY CABINET	1	12 IN. OF GROMMET MATERIAL FOR A 3 X 3 IN. OPENING IN DUCT COVER	ELEC-6 ELEC-2
LDM	LARGE DISPLAY MONITOR	1	COVERPLATE 19 X 18 X 6 IN. FLUSH CEILING BOX 3/4 IN. DIA CHASE NIPPLE	ELEC-8
LMP	SURGICAL LAMP	1	COVERPLATE 4 X 4 X 4 IN. BDX 1/2 IN. DIA. CHASE NIPPLE	ELEC-8
LUS	LUA POSITIONER	1	COVERPLATE 4 IN. DIA. BUSHING & LOCKNUT 6 X 6 X 16 IN. BDX	ELEC-48 ELEC-134
PDB	MAIN DISCONNECT	1	150-AMP PANEL INCLUDED IN ORDER	ELEC-161
PDB1	LOCAL SERVICE DISCONNECT	1	150-AMP LOCAL SERVICE DISCONNECT (CUSTOMER SUPPLIED)	
RDS1	EMERGENCY OFF	1	PROVIDE A SINGLE GANG, 2 1/8 IN. DEEP, FLUSH MTD. WALL BOX.	ELEC-16
RDS2	EMERGENCY OFF	1	PROVIDE A SINGLE GANG, 2 1/8 IN. DEEP, FLUSH MTD. WALL BOX.	ELEC-16
UIB	UPS INTERFACE BOX	1	12 IN. OF GROMMET MATERIAL FOR A 3 X 3 IN. OPENING IN DUCT COVER	ELEC-5 ELEC-6
UPS	UPS CABINET	1	32 IN. OF GROMMET MATERIAL FOR AN 8 X 8 IN. OPENING IN DUCT COVER 16 FT. OF 2 IN. FLEX CONDUIT AND CONNECTORS	ELEC-5 ELEC-6
UPS3	3 KVA UPS (L.D SUBSYSTEM)	1	EXTERNALLY CONNECTED TO LARGE DISPLAY CABINET - 'LDC'	
WBC	BOLUS WALLBOX	1	12 IN. OF GROMMET MATERIAL FOR A 3 X 3 IN. OPENING IN DUCT COVER	ELEC-5 ELEC-6
WBC1	OPERATORS CONSOLE	1	12 IN. OF GROMMET MATERIAL FOR A 3 X 3 IN. OPENING IN DUCT COVER	ELEC-5 ELEC-6
WBM1	TV MONITOR	1	SHARED CEILING BOX WITH 'LDM'	ELEC-8
WBM2	TV MONITOR	1	12 IN. OF GROMMET MATERIAL FOR A 3 X 3 IN. OPENING IN DUCT COVER	ELEC-5 ELEC-6
WC	WATER CHILLER HOSE OUTLET	1	3 IN. CONDUIT STUBBED 2 IN. ABOVE FLOOR	ELEC-9
XRB	XR BUZZER (LOCATED ABOVE CEILING)	1	SINGLE GANG BOX	ELEC-8
XRL1	WARNING LIGHT	1	COVERPLATE 7 X-RAY ON! INCANDESCENT LIGHT FIXTURE - DO NOT USE FLUORESCENT FIXTURES.	ELEC-157
XRLC	WARNING LIGHT CONTROLLER AVAILABLE FROM GEHC CALL: 800-879-7925 OR LOCAL GE INSTALLATION PROJECT MGR.	1	6490SSS WARNING LIGHT ROOM LIGHT CONTROL OR EQUIVALENT MAX 24V CONTROLLER	ELEC-157



**CONTRACTOR SUPPLIED AND INSTALLED WIRING**

ELECTRICAL CONTRACTOR SHALL RING OUT, TAG AND TERMINATE ALL WIRES AT BOTH ENDS.

WIRE RUN, FROM - TO	QUANTITY, WIRE SIZE/COLOR
3 PHASE > PDB1	3-BLACK, 1-WHITE, 1-GREEN (REFER TO FEEDER TABLE)
PDB1 > PDB	3-BLACK, 1-WHITE, 1-GREEN (REFER TO FEEDER TABLE)
PDB > C1F (JEDI)	3-1/0 BLACK, 1-1/0 GREEN
PDB > C1F (PDU)	2-ND. 10 BLACK, 1-ND. 10 GREEN
PDB > C2	3-ND. 8 BLACK, 1-ND. 8 GREEN
PDB > AT	3-ND. 10 BLACK, 1-ND. 10 GREEN
PDB > UPS	6-ND. 6 BLACK, 1-ND. 6 WHITE, 2-ND. 6 GREEN
PDB > RDS1	2-ND. 14 BLACK, 2-ND. 14 WHITE, 1-ND. 14 GREEN
PDB > RDS2	2-ND. 14 BLACK, 2-ND. 14 WHITE, 1-ND. 14 GREEN
XRLC > 1 PHASE	1-ND. 14 BLACK, 1-ND. 14 WHITE, 1-ND. 14 GREEN
XRLC > C2	2-ND. 14 BLACK, 2-ND. 14 WHITE, 1-ND. 14 GREEN
XRL1 > XRLC	1-ND. 14 BLACK, 1-ND. 14 WHITE, 1-ND. 14 GREEN
LDC > HOSPITAL GROUND	1-ND. 10 GREEN
LMP > 120V	2-ND. 14 BLACK, 1 ND. 14 GREEN

**GE Healthcare**

Healthcare Project Implementation - Design Center

Wisconsin

SHEET TITLE: ELECTRICAL LAYOUT

MODALITY TYPE: DISCOVERY IGS

THIS PLAN IS SUBMITTED TO REQUEST FOR THE EQUIPMENT AND ASSOCIATED APPARATUS, ELECTRICAL WIRING DETAILS AND ROOM ARRANGEMENTS. IN PREPARING THIS PLAN, EVERY EFFORT HAS BEEN MADE TO CONFORM TO DETAILS AND SPECIFICATIONS OF THE MANUFACTURER'S LITERATURE AND THE COMPANY'S ACTUAL CONSTRUCTION PRACTICES. GE HEALTHCARE AND THE COMPANY CANNOT ACCEPT RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE: INTERVENTIONAL I.R. WITH ARM IMAGING

MILWAUKEE, WISCONSIN

PROJECT	REVISION
4-96f	01

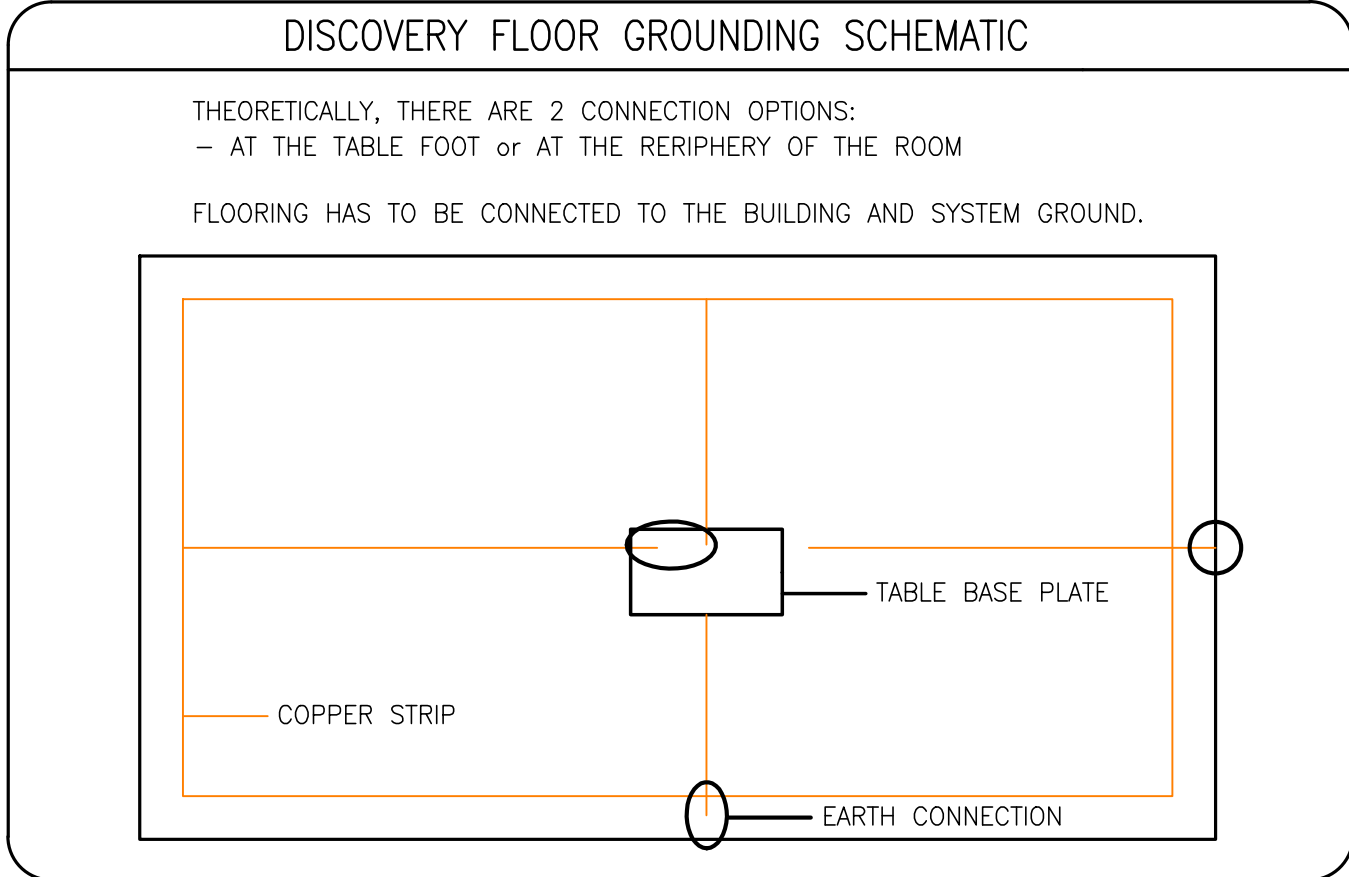
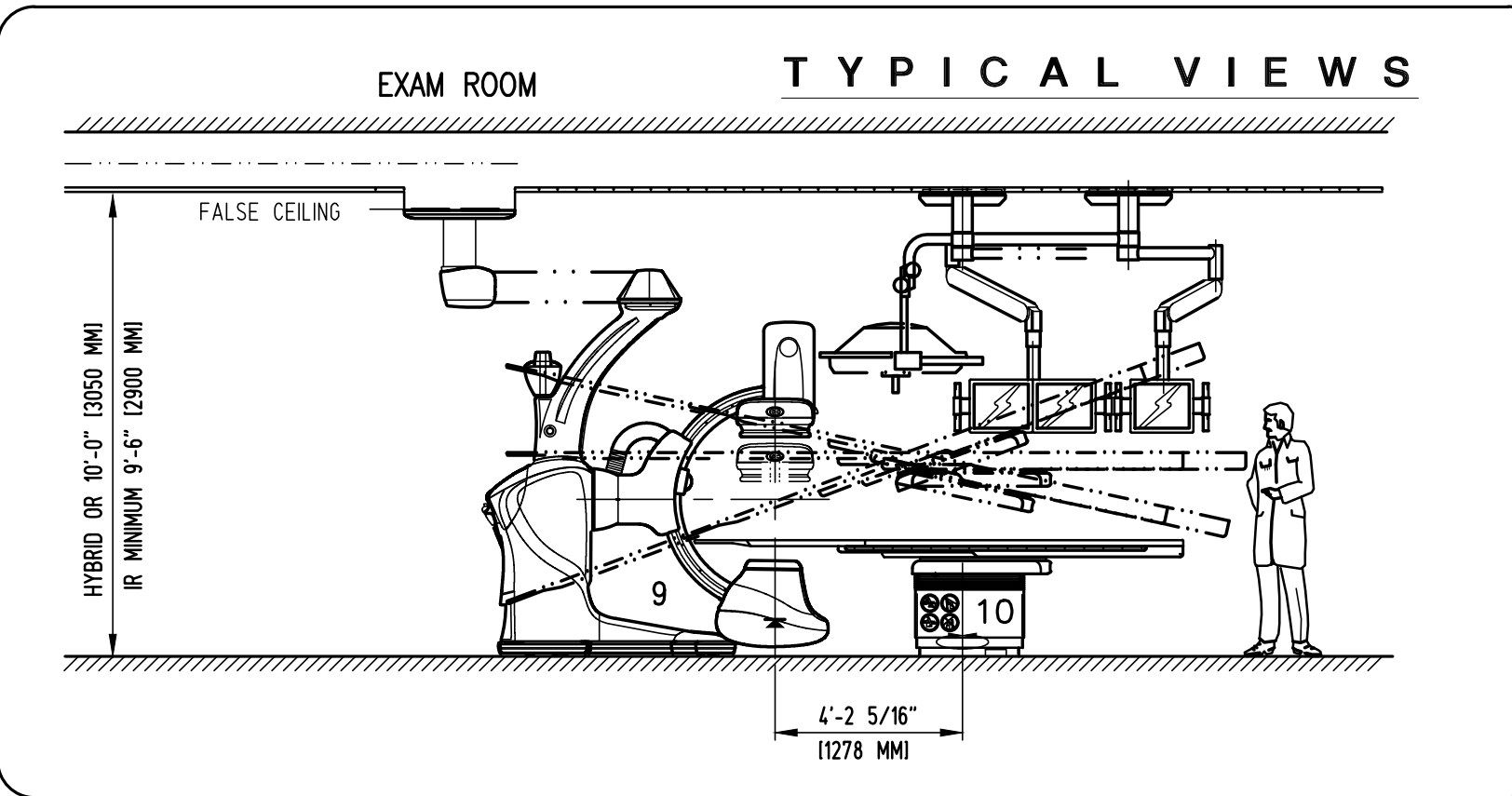
DATE: 22.OCT.15  
DRAWN BY: SLR  
CHECKED BY: TST

REVISION HISTORY:


SHEET

E1

INTERCONNECT DIAGRAM



POWER SPECIFICATIONS

DISCOVERY IGS SYSTEM  
REV. DATE: 10.AUG.12

VOLTAGE: PRIMARY SOURCE IS REQUIRED FOR ALL INSTALLATIONS.  
RANGE OF LINE VOLTAGES:  
NOMINAL LINE VOLTAGE OF 380 TO 480, 3 PHASE, 50 OR 60 HZ  
REQUIRED POWER SUPPLY: WYE DISTRIBUTION  
MAXIMUM DAILY VOLTAGE VARIATION MUST FALL WITHIN ONE OF THE RANGES IN TABLE A.

TABLE A ALLOWABLE VOLTAGES/CURRENT DEMAND

NOMINAL VOLTAGE	NORMAL RANGE ±10 PERCENT	CURRENT (AMPS)	
		MAX. MOMENTARY	CONTINUOUS
380	342-418	260	30
400	360-440	247	29
415	374-456	238	28
480	432-528	206	24

ALL CALCULATIONS BASED UPON NOMINAL VOLTAGE

LOW LINE CONDITIONS MAY INHIBIT SOME HIGH KVP TECHNIQUES. THE GENERATOR AUTOMATICALLY ESTABLISHES THESE INHIBITS BASED ON ACTUAL LINE CONDITIONS AND SYSTEM REGULATION.

PHASE-BALANCE: PHASE-TO-PHASE VOLTAGES MUST BE WITHIN +2 PERCENT OF THE LOWEST PHASE-TO-PHASE VOLTAGE. MAXIMUM ALLOWABLE TRANSIENT VOLTAGE EXCURSIONS ARE 2.5 PERCENT OF RATED LINE VOLTAGE AT A MAXIMUM DURATION OF 5 CYCLES AND FREQUENCY OF 10 TIMES PER HOUR.

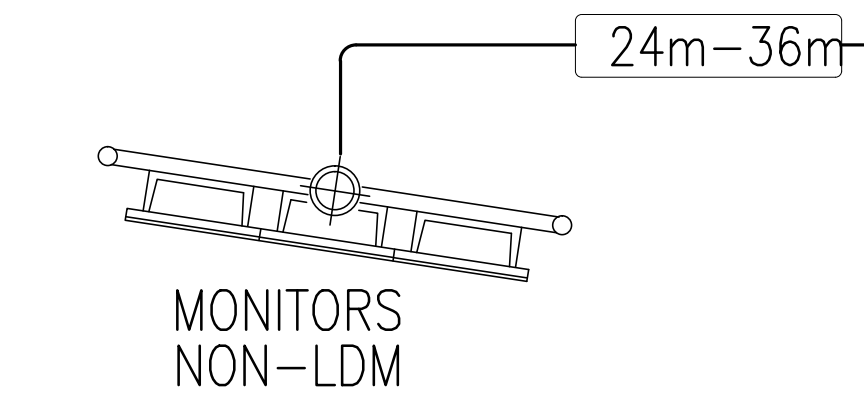
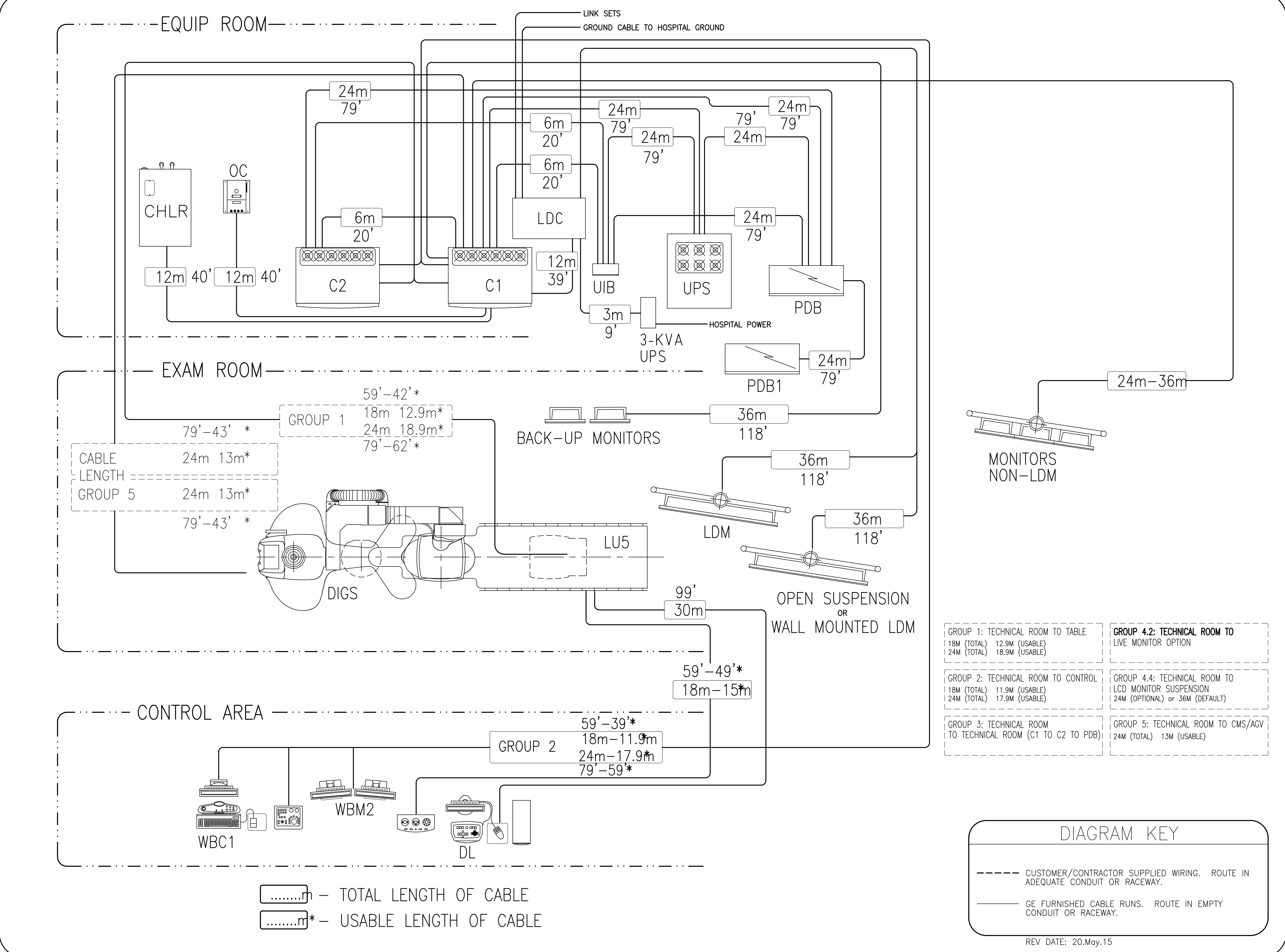
DEMAND: CONTINUOUS POWER DEMAND = 20KVA. (MAX DEMAND = 171 KVA)

TABLE B MAXIMUM MOMENTARY DEMAND.

DEMAND	GENERATOR SYSTEM
kVA * POWER FACTOR AT	171 0.9
mA	1250
kVp	80

\* DEMAND INCLUDES POWER FOR ENTIRE GENERATOR SYSTEM. LINE VOLTAGE REGULATION AT MAXIMUM POWER DEMAND MUST BE LESS THAN OR EQUAL TO 6 PERCENT.

DISTRIB-TRANSFORMER: FOR A SINGLE UNIT INSTALLATION, THE MINIMUM TRANSFORMER SIZE IS 225 KVA.



GROUP 1: TECHNICAL ROOM TO TABLE 18M (TOTAL) 12.9M (USABLE) 24M (TOTAL) 18.9M (USABLE)	GROUP 4: TECHNICAL ROOM TO LIVE MONITOR OPTION
GROUP 2: TECHNICAL ROOM TO CONTROL 18M (TOTAL) 11.9M (USABLE) 24M (TOTAL) 17.9M (USABLE)	GROUP 4: TECHNICAL ROOM TO LCD MONITOR SUSPENSION 24M (OPTIONAL) or 36M (DEFAULT)
GROUP 3: TECHNICAL ROOM TO TECHNICAL ROOM (C1 TO C2 TO PDB)	GROUP 5: TECHNICAL ROOM TO CMS/AGV 24M (TOTAL) 13M (USABLE)

DIAGRAM KEY

- CUSTOMER/CONTRACTOR SUPPLIED WIRING. ROUTE IN ADEQUATE CONDUIT OR RACEWAY.
- GE FURNISHED CABLE RUNS. ROUTE IN EMPTY CONDUIT OR RACEWAY.

REV DATE: 20.May.15

ELECTRICAL NOTES

- NOTE 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. ALUMINUM OR SOLID WIRES ARE NOT ALLOWED.
- NOTE 2: WIRE SIZES GIVEN ARE FOR USE OF EQUIPMENT. LARGER SIZES MAY BE REQUIRED BY LOCAL CODES.
- NOTE 3: IT IS RECOMMENDED THAT ALL WIRES BE COLOR CODED, AS REQUIRED IN ACCORDANCE WITH NATIONAL AND LOCAL ELECTRICAL CODES.
- NOTE 4: CONDUIT SIZES SHALL BE VERIFIED BY THE ARCHITECT, ELECTRICAL ENGINEER OR CONTRACTOR, IN ACCORDANCE WITH LOCAL OR NATIONAL CODES.
- NOTE 5: 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.
- NOTE 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.
- NOTE 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).
- NOTE 8: CONDUIT TURNS TO HAVE LARGE, SWEEPING BENDS WITH MINIMUM RADIUS IN ACCORDANCE WITH NATIONAL AND LOCAL ELECTRICAL CODES.
- NOTE 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.
- NOTE 10: THE MAXIMUM POINT TO POINT DISTANCES ILLUSTRATED ON THIS DRAWING MUST NOT BE EXCEEDED.
- NOTE 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.
- NOTE 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.

GE Healthcare  
Healthcare Project Implementation - Design Center  
Milwaukee, Wisconsin

SHEET TITLE: ELECTRICAL SPECIFICATIONS  
MODALITY TYPE: DISCOVERY IGS

THIS PLAN IS SUBMITTED TO ASSIST IN THE 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 TO DETAILS AND DIMENSIONS SHOWN ON ARCHITECTURAL PLANS AND THE COMPANY CANNOT ACCEPT RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:  
INTERVENTIONAL I.R.  
WITH ARM IMAGING  
MILWAUKEE, WISCONSIN

PROJECT	REVISION
4-96f	01

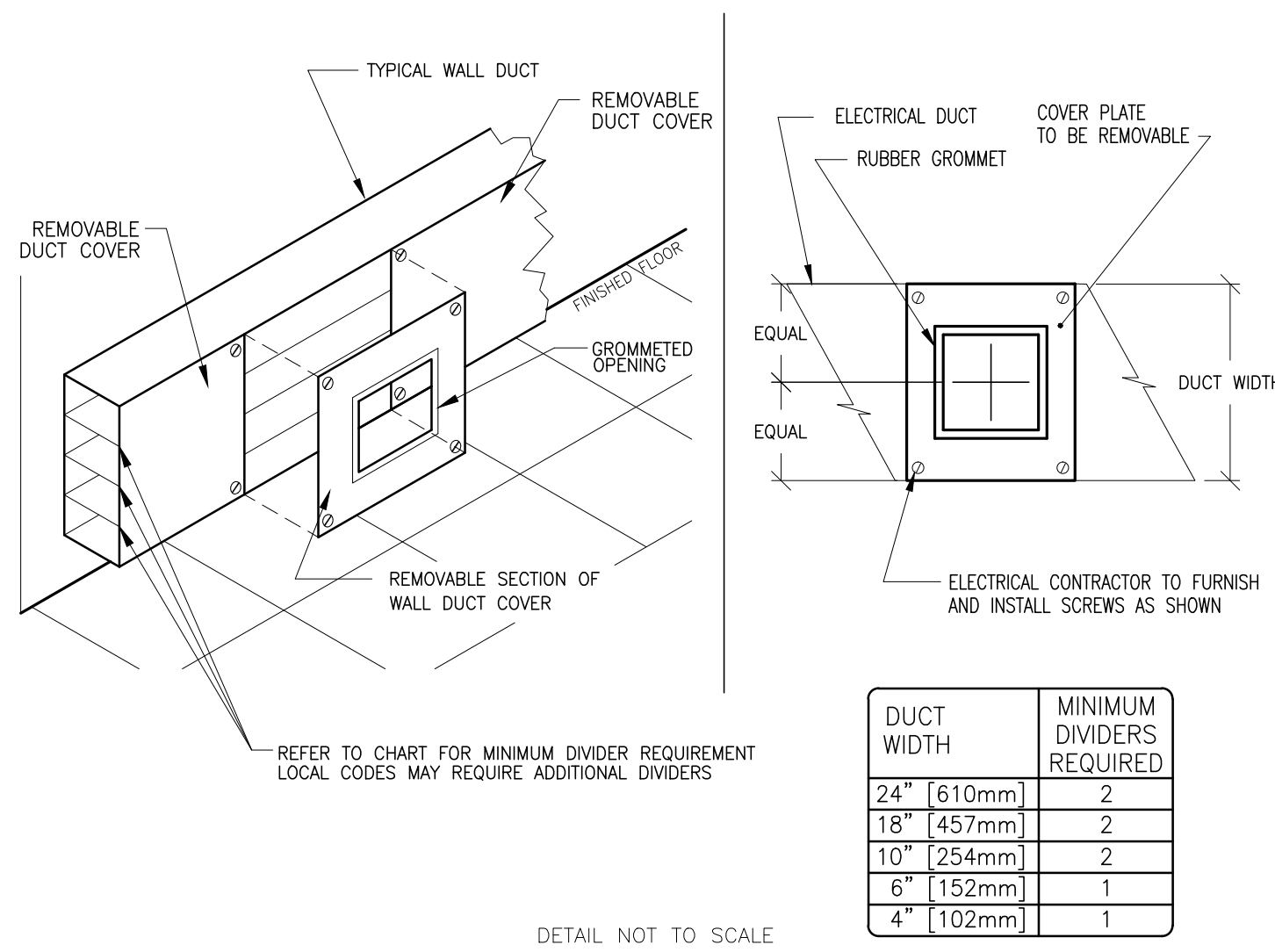
DATE: 22.Oct.15  
DRAWN BY: SLR  
CHECKED BY: TST

REVISION HISTORY:


SHEET  
E2

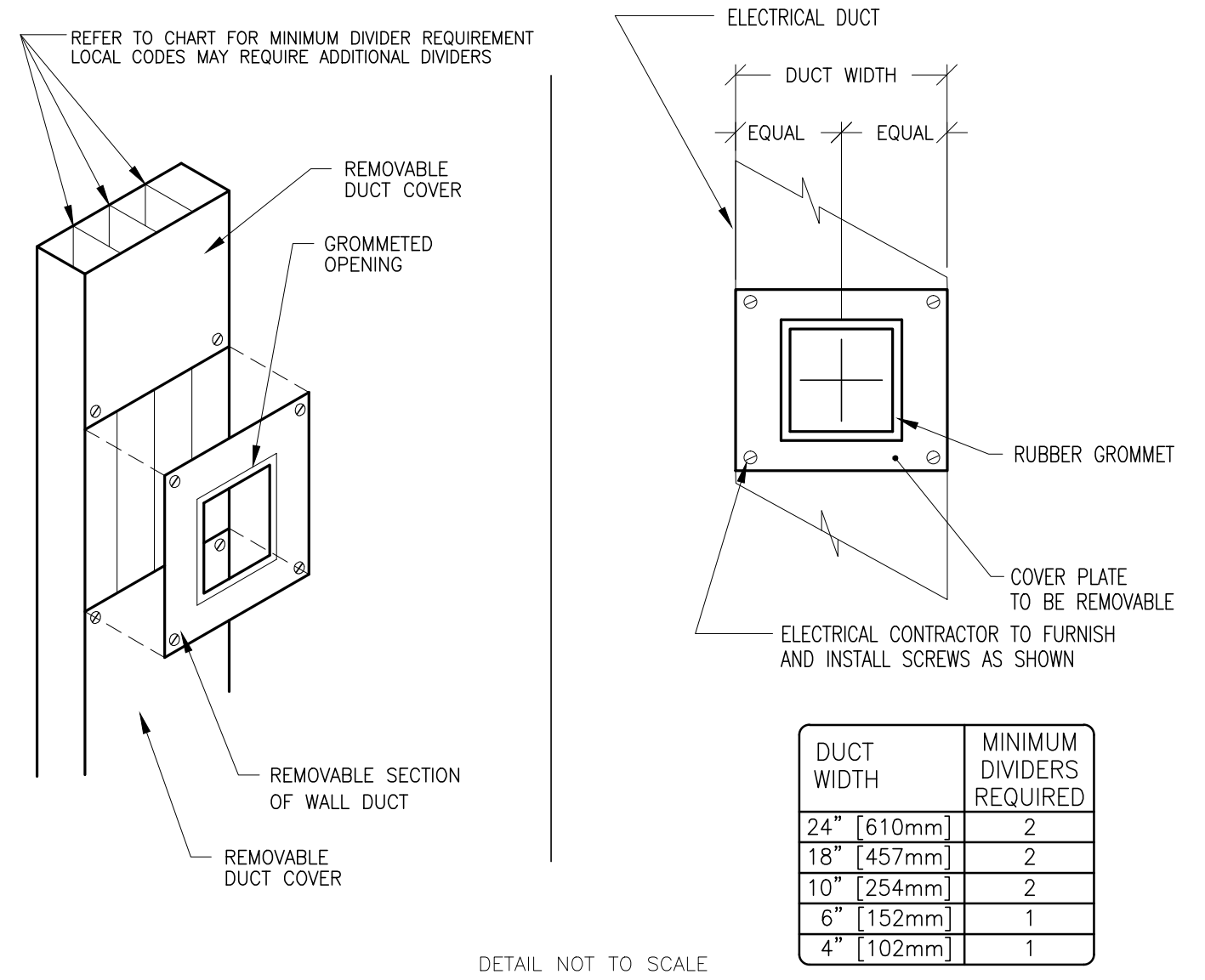
ELECTRICAL DETAIL  
HORIZONTAL WALL DUCT (TYPICAL)

ELEC-5  
REV. DATE: 03/19/04



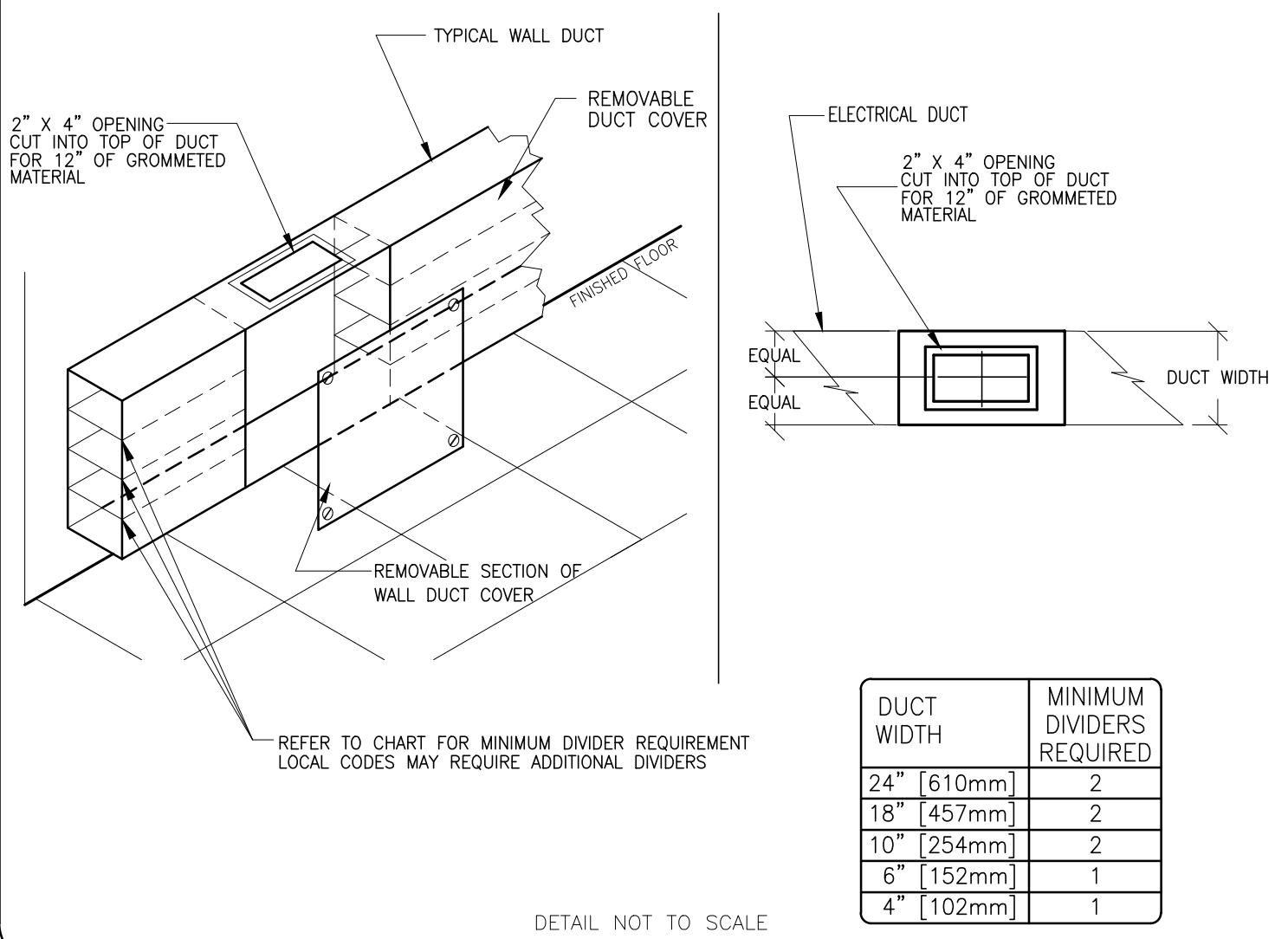
ELECTRICAL DETAIL  
VERTICAL WALL DUCT (TYPICAL)

ELEC-6  
REV. DATE: 03/19/04



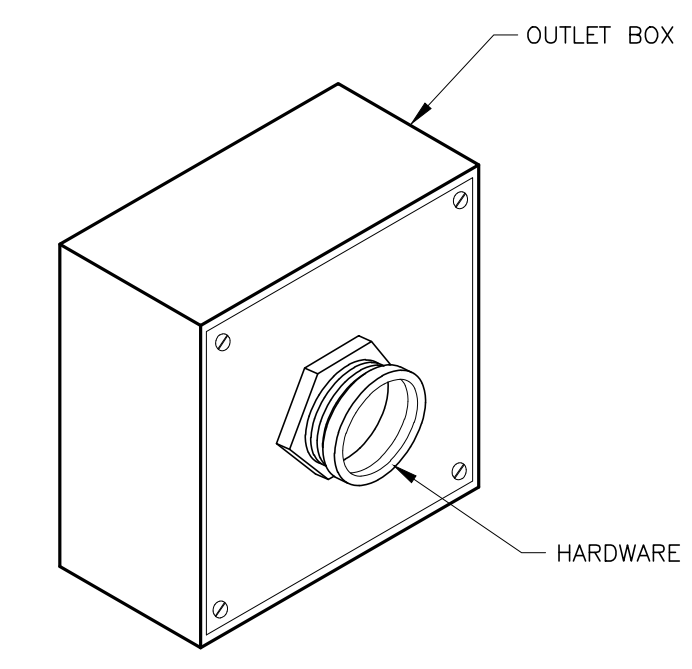
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HORIZONTAL WALL DUCT (TYPICAL)

ELEC-5A  
REV. DATE: 06/16/08



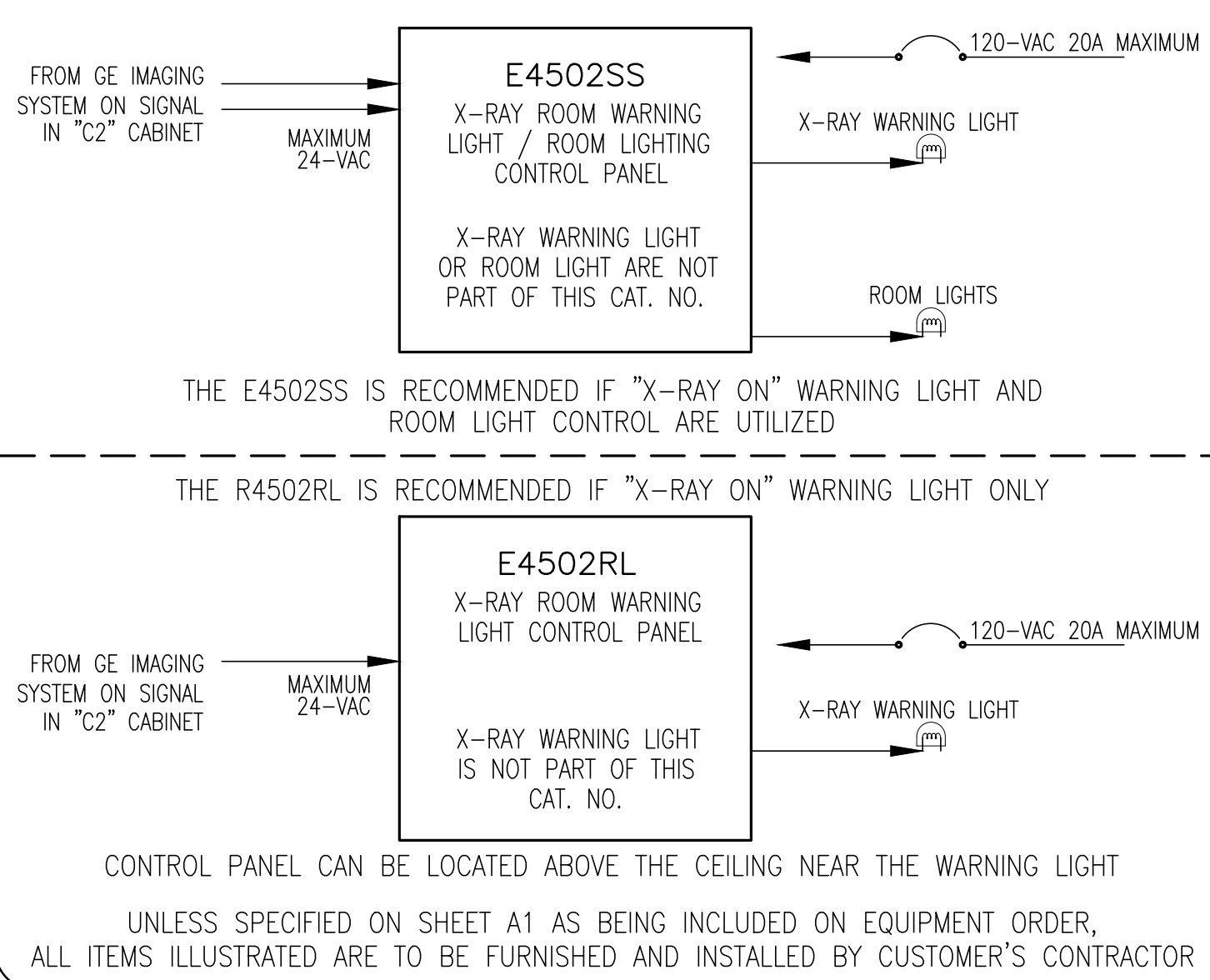
ELECTRICAL DETAIL  
BOX WITH COVERPLATE (TYPICAL)

ELEC-8  
REV. DATE: 09/30/94



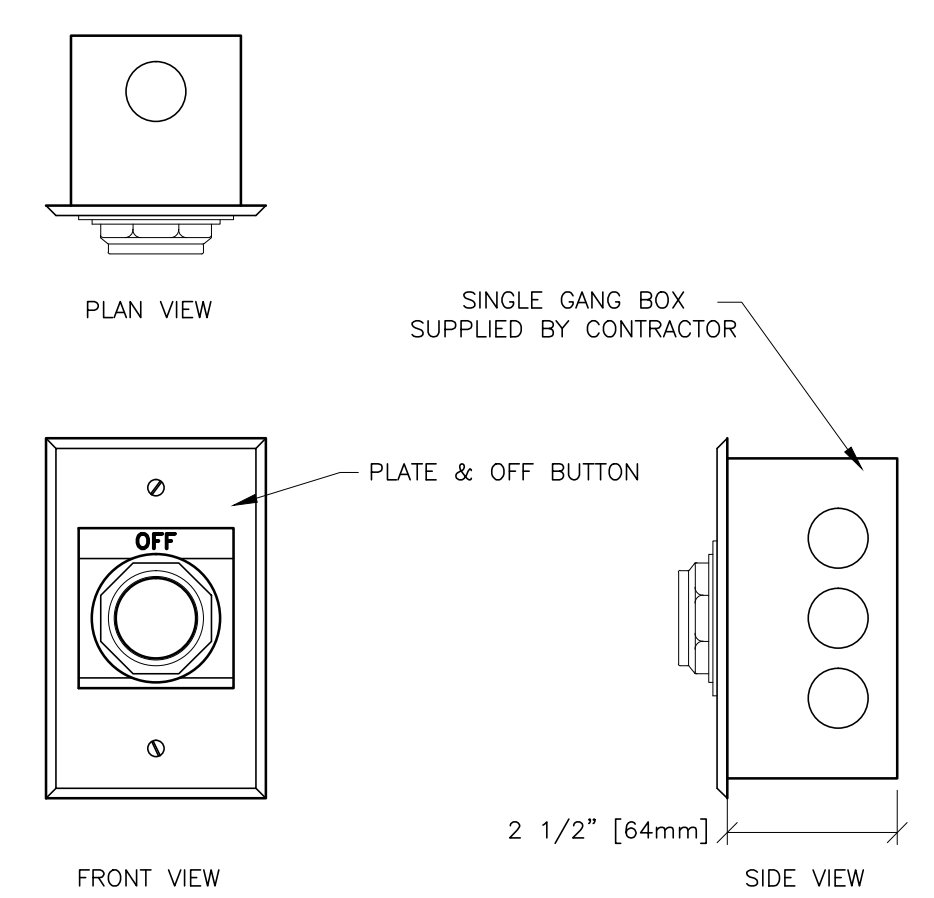
ELECTRICAL DETAIL  
X-RAY WARNING LIGHT & ROOM LIGHT CONTROL PANEL

ELEC-157  
REV. DATE: 04/23/09



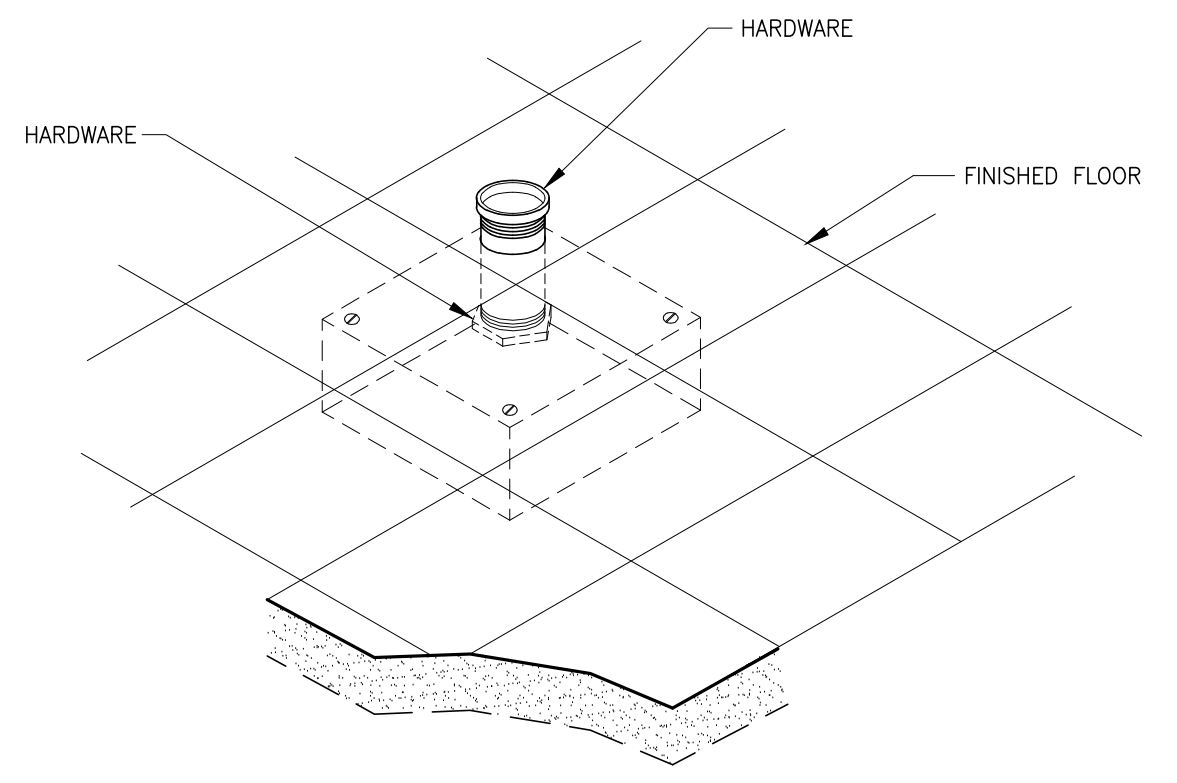
ELECTRICAL DETAIL  
EMERGENCY OFF BUTTON

ELEC-16  
REV. DATE: 05/14/09



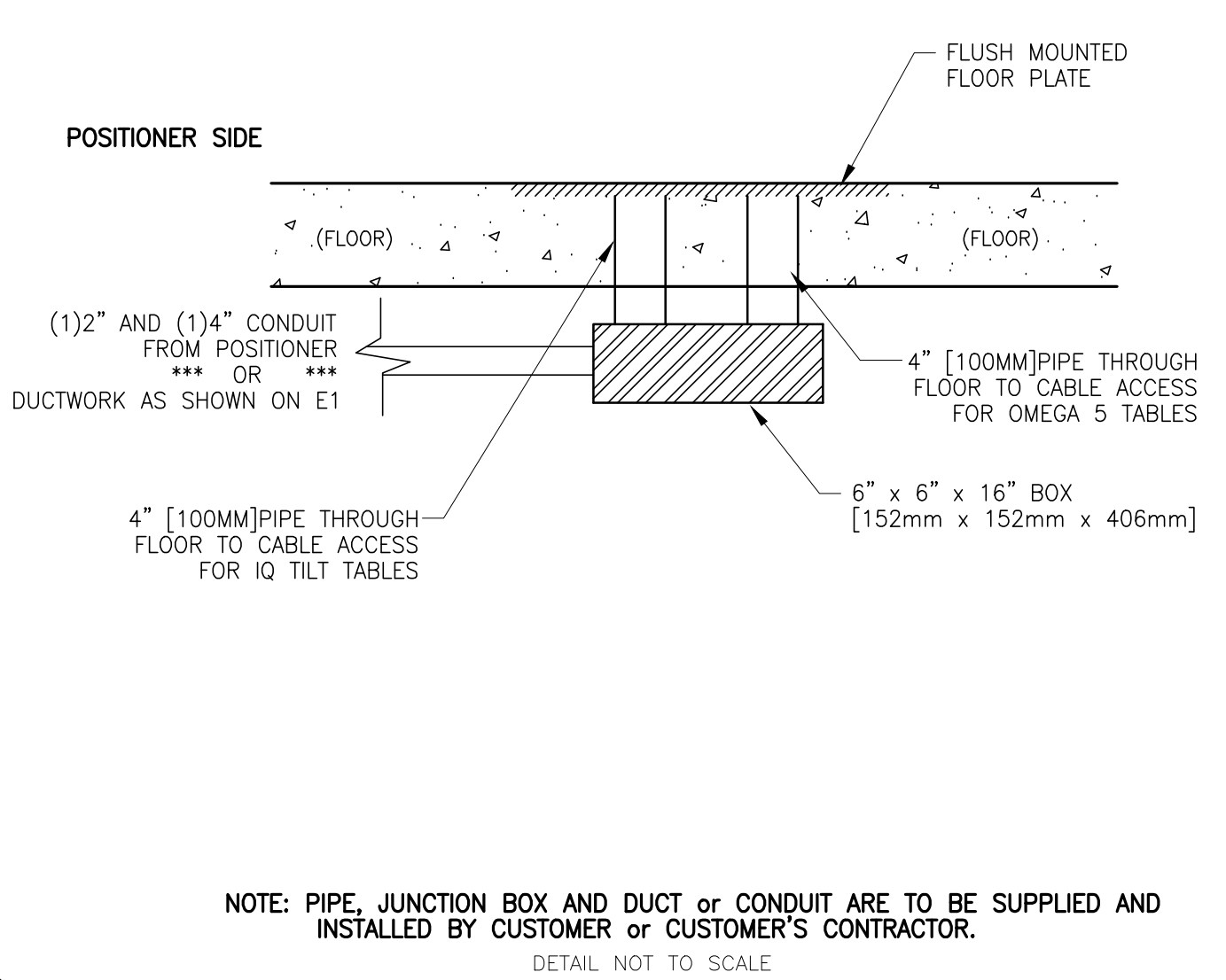
ELECTRICAL DETAIL  
TABLE INTERCONNECTION - BOX BELOW FLOOR

ELEC-48  
REV. DATE: 01/04/96



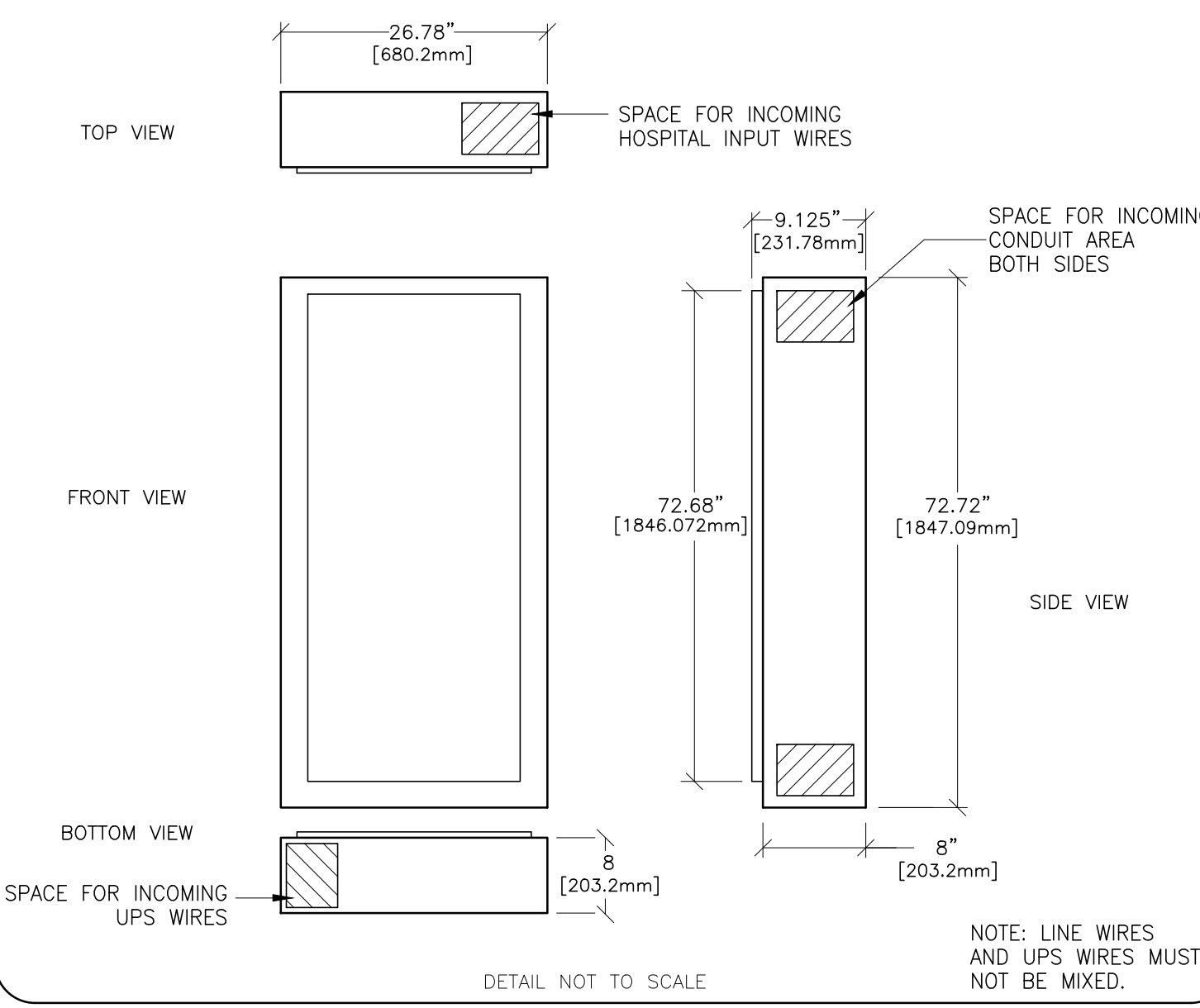
ELECTRICAL DETAIL  
TABLE INTERCONNECT DETAIL, UNDER FLOOR

ELEC-134  
REV. DATE: 05/10/04



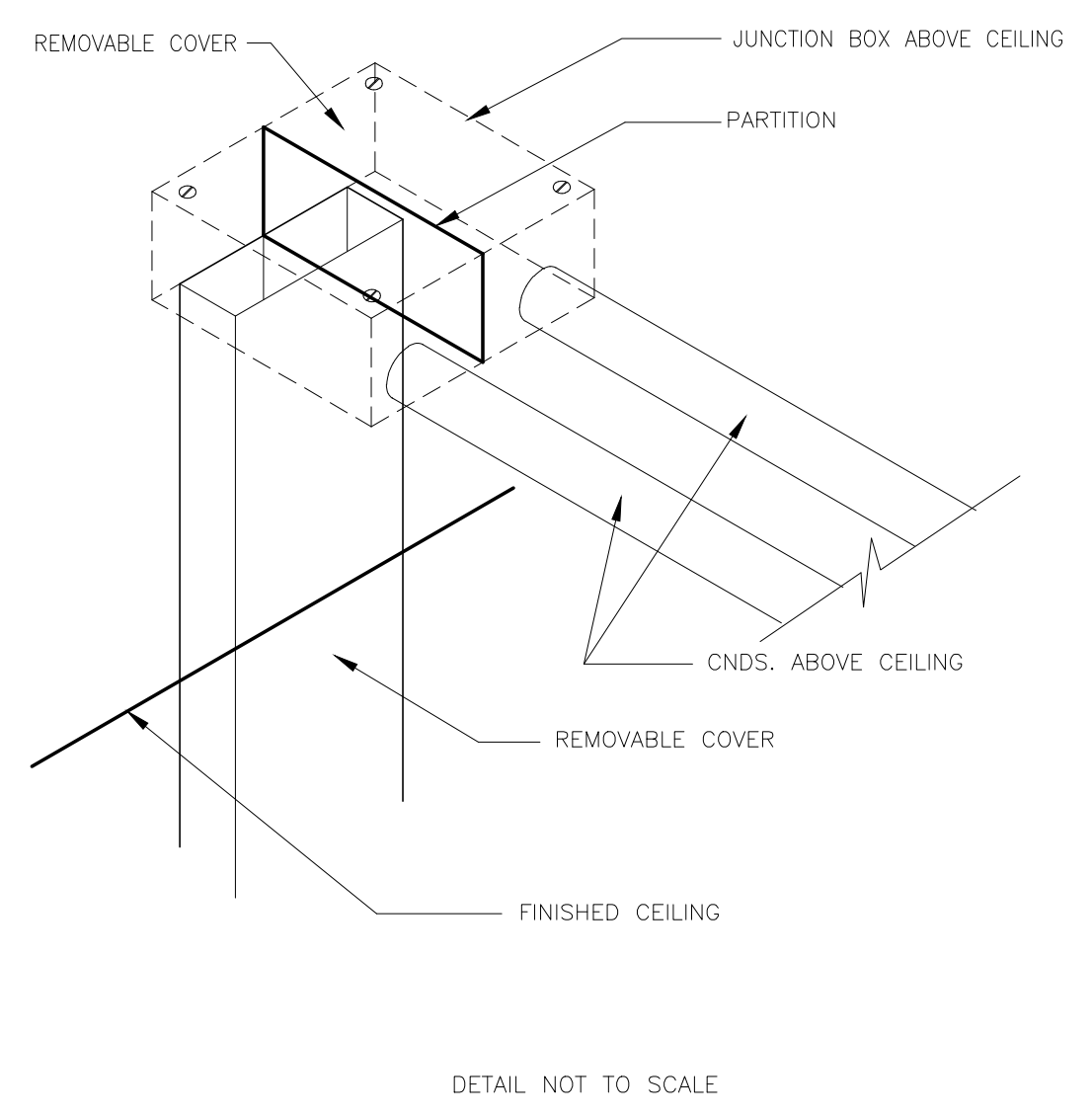
ELECTRICAL DETAIL  
INNOVA PLUS MAIN DISCONNECT PANEL

ELEC-161  
REV. DATE: 09/27/10



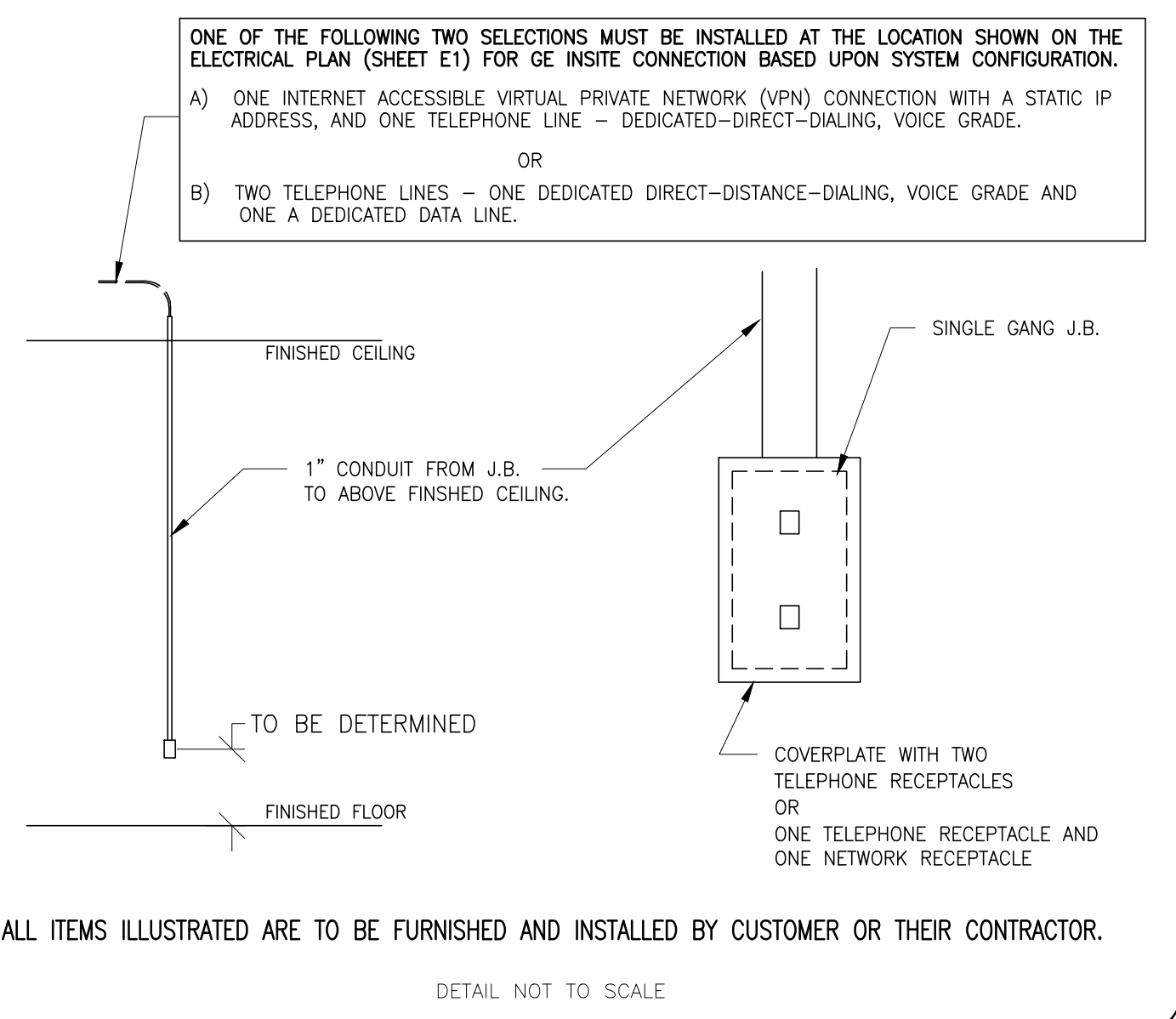
ELECTRICAL DETAIL  
J.B. / WALL DUCT DETAIL (TYPICAL)

ELEC-2  
REV. DATE: 09/30/94



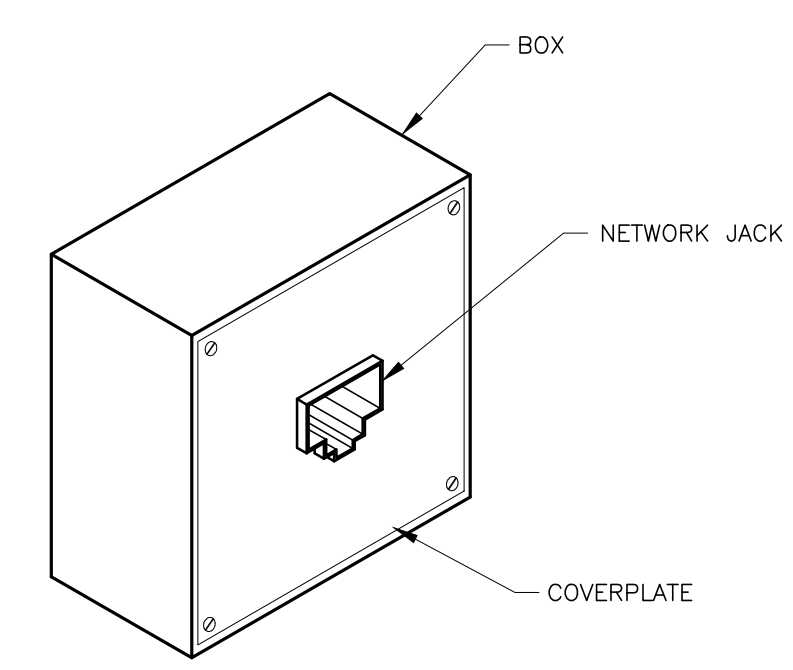
ELECTRICAL DETAIL  
INSITE CONNECTION (TYPICAL)

ELEC-1  
REV. DATE: 04/24/02



ELECTRICAL DETAIL  
BOX WITH COVERPLATE AND NETWORK JACK

ELEC-83  
REV. DATE: 10/06/98



PROJECT	REVISION
4-96f	01

DATE: 22.Oct.15  
DRAWN BY: SLR  
CHECKED BY: TST

REVISION HISTORY:


PIM R1  
RQ - 155703

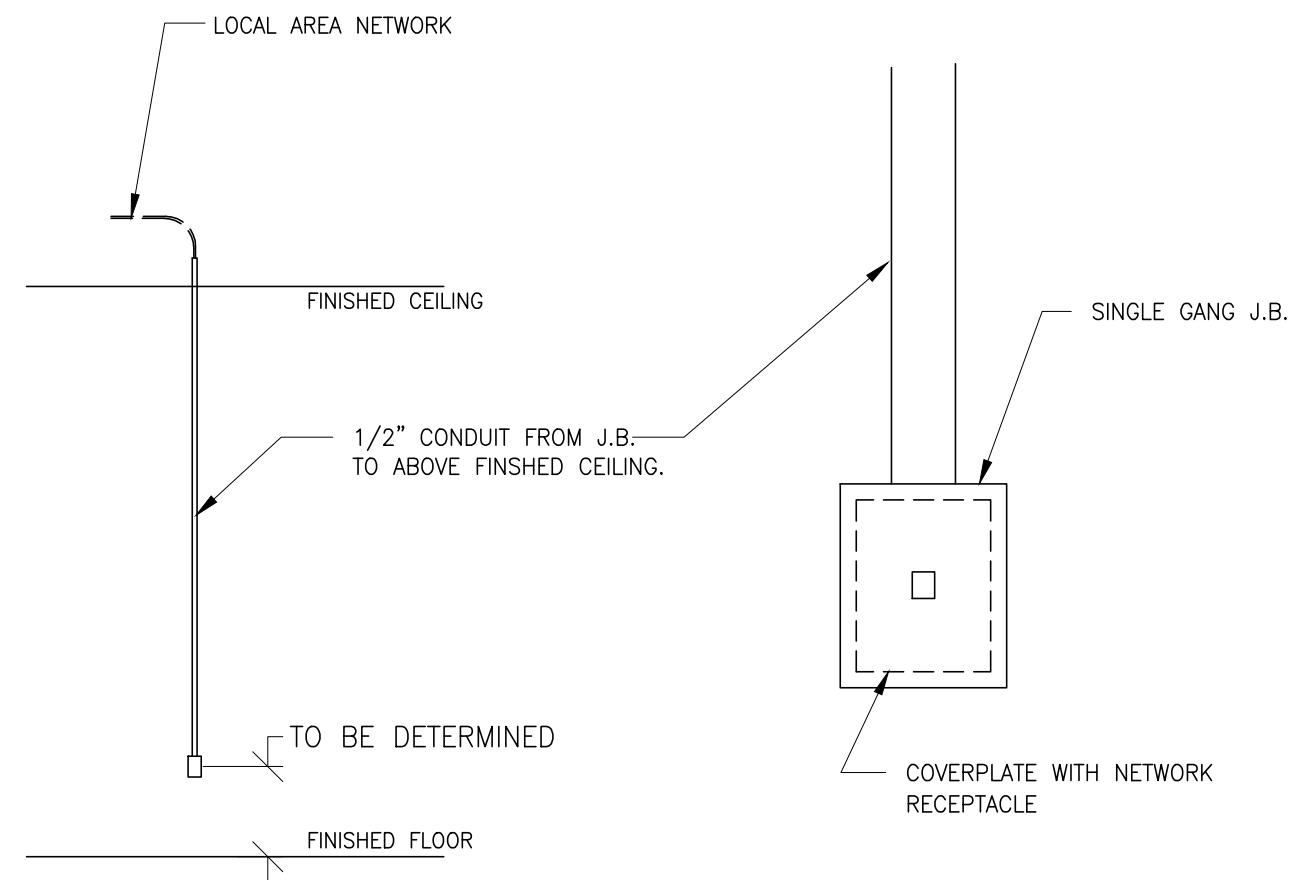


ELECTRICAL DETAIL  
NETWORK CONNECTION (TYPICAL)

ELEC-84

REV. DATE: 03/06/04

FOR NUCLEAR SYSTEMS A DIRECT NETWORK CONNECTION IS TO BE MADE BETWEEN THE SYSTEM AND THE REVIEW WORKSTATION.

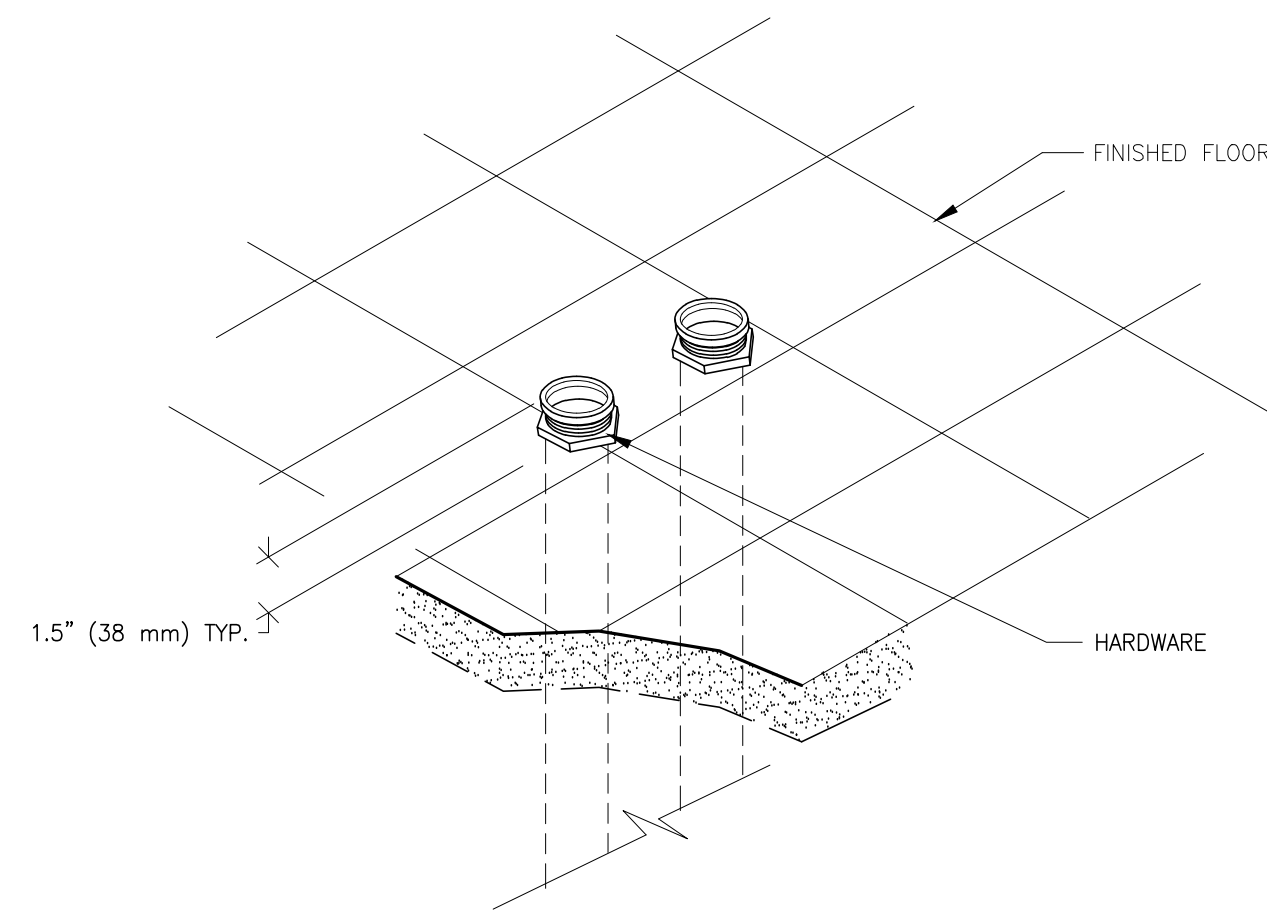


DETAIL NOT TO SCALE

ELECTRICAL DETAIL  
CONDUITS THRU-FLOOR (TYPICAL)

ELEC-9

REV. DATE: 08/08/94



DETAIL NOT TO SCALE



**GE Healthcare**  
Healthcare Project Implementation - Design Center  
Milwaukee, Wisconsin

SHEET TITLE: ELECTRICAL DETAILS  
MODALITY TYPE: DISCOVERY IGS

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PROJECT TITLE:

**INTERVENTIONAL I.R.  
WITH ARM IMAGING**  
MILWAUKEE, WISCONSIN

PROJECT	REVISION
4-96f	01

DATE: 22.Oct.15  
DRAWN BY: SLR  
CHECKED BY: TST

REVISION HISTORY:

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SHEET

**E4**

RQ - 155703 PIM R1

**EQUIPMENT DETAIL**  
19" FLAT PANEL MONITOR ON WALL SUPPORT

C7619W  
REV. DATE: 20.MAR.12

FRONT VIEW  
SIDE VIEW  
PLAN VIEW

DETAIL NOT TO SCALE

**EQUIPMENT DETAIL**  
MAVIG EYE & THYROID SHIELD WITH LAMP

B50-31E  
REV. 00: 10/03/97

CEILING  
CARRIAGE TRACK  
65" MAX. ARC [1651mm]  
65" MAX. ARC [1651mm]  
LEAD GLASS SHIELD

DETAIL NOT TO SCALE

**EQUIPMENT DETAIL**  
INJECTOR ON MOBILE PEDESTAL

B50-30  
REV. DATE: 28.JUN.12

PLAN VIEW

DRAWING NOT TO SCALE

**EQUIPMENT DETAIL**  
XR-BUZZER BRACKET

B5150H  
REV. 00: 10/30/08

NOTE: XR-BUZZER BRACKET IS MOUNTED ON WALL, ABOVE CEILING. PLACE SPEAKER ABOVE GRILLED CEILING TILE FOR SOUND PENETRATION.

DETAIL NOT TO SCALE

**EQUIPMENT DETAIL**  
DISCOVERY IGS RADIATION SCATTER PLOTS

B5050S  
REV. DATE: 18.JUL.12

UNITS: RELATIVE AIR KERMA:  $\mu\text{Gy}/\mu\text{Gym}^2$   
DISTANCES: RADIUS AT 1, 2 AND 3 METERS

NOTE: FOR REFERENCE ONLY. PLEASE REFER TO OPERATOR'S MANUAL FOR ADDITIONAL INFORMATION.

VERTICAL 1 METER  
VERTICAL 1.5 METERS

5-1 GANTRY IN VERTICAL POSITION - DOSE AT 1 METER FROM GROUND  
5-2 GANTRY IN VERTICAL POSITION - DOSE AT 1.5 METER FROM GROUND

NOTE: REFER TO OPERATOR MANUAL FOR APPLICABLE SCATTER PLOTS

DETAIL NOT TO SCALE

**EQUIPMENT DETAIL**  
DISCOVERY IGS RADIATION SCATTER PLOTS

B5050T  
REV. DATE: 18.JUL.12

UNITS: RELATIVE AIR KERMA:  $\mu\text{Gy}/\mu\text{Gym}^2$   
DISTANCES: RADIUS AT 1, 2 AND 3 METERS

NOTE: FOR REFERENCE ONLY. PLEASE REFER TO OPERATOR'S MANUAL FOR ADDITIONAL INFORMATION.

LATERAL 1 METER  
LATERAL 1.5 METERS

5-3 GANTRY IN LATERAL POSITION - DOSE AT 1 METER FROM GROUND  
5-4 GANTRY IN LATERAL POSITION - DOSE AT 1.5 METER FROM GROUND

NOTE: REFER TO OPERATOR MANUAL FOR APPLICABLE SCATTER PLOTS

DETAIL NOT TO SCALE

**EQUIPMENT DETAIL**  
LASER TARGET IMPLEMENTATION

B-IGS10  
REV. DATE: 30.AUG.12

REFLECTOR ID:	ANGLE:
1	21°
2	39°
3	79°
4	109°
5	146°
6	167°
7	214°
8	246°
9	271°
10	312°
11	339°

DETAIL NOT TO SCALE

**EQUIPMENT DETAIL**  
DISCOVERY IGS POSITIONER - FRONT VIEW

B-IGS01  
REV. DATE: 10.APR.12

DETAIL NOT TO SCALE

**EQUIPMENT DETAIL**  
SHIPPING DOLLY FOR DISCOVERY IGS GANTRY

B-IGS12  
REV. DATE: 11.SEP.12

DISCOVERY IGS GANTRY (ON SHIPPING DOLLY)  
FULL CONFIGURATION

GANTRY (MOVING): LEFT TOP HANDLE REMOVED AND RIGHT TOP HANDLE INSIDE. HEIGHT: 81.1" [2060] / WIDTH: 50.4" [1280] / LENGTH: 113.7" [2890 MM]

GANTRY (MOVING): SHORT LIFTS CONFIGURATION. HEIGHT: 83.5" [2120] / WIDTH: 50.4" [1280] / LENGTH: 90.5" [2300]

GANTRY (MOVING): NO DOLLY CONFIGURATION. HEIGHT: 78.7" [2000] / WIDTH: 49.6" [1260] / LENGTH: 84.6" [2150]

NOTE: DOLLY CAN BE REMOVED TO FACILITATE MOVEMENT OF DISCOVERY GANTRY INTO EXAM ROOM.

SHIPPING WEIGHT (FULL CONFIGURATION): 2425 lbs. (1100 kg)

DETAIL NOT TO SCALE

**EQUIPMENT DETAIL**  
SHIPPING CRATE FOR IQ TABLE; DISCOVERY SYSTEM

B-IGS13  
REV. DATE: 25.JUL.12

INNOVA IQ TABLE

INNOVA IQ TABLE  
INNOVA IQ TABLE BASE ASSEMBLY ON PALLET

SHIPPING WEIGHT: 1653 lbs (750 kg)

DETAIL NOT TO SCALE

**EQUIPMENT DETAIL**  
DISCOVERY IGS - GANTRY DELIVERY PATH

B-IGS14  
REV. DATE: 26.JUN.13

DISCOVERY IGS GANTRY

NOTE: MINIMUM DOOR HEIGHT (TO ACCOMMODATE GANTRY ON SHIPPING DOLLY) IS 81.1" [2060 MM]  
\* IF DOOR HEIGHT IS LIMITED TO 79" [2007 MM], YOU WILL NEED TO MOVE IT IN "NO DOLLY" CONFIGURATION

NOTE: MINIMUM DOOR WIDTH (TO ACCOMMODATE GANTRY ON SHIPPING DOLLY) IS:  
- 55.5" [1410 MM] WITH PROTECTIVE SIDE RAIL  
- 50.4" [1280 MM] WITH LEFT TOP HANDLE REMOVED AND RIGHT TOP HANDLE INSIDE

CORRIDOR WIDTH (FOR GANTRY DELIVERY)	DOOR SIZE (FOR GANTRY DELIVERY)
96" WIDE	55.5" OPENING

NOTE: DOOR WIDTHS ARE BASED ON A "STRAIGHT-IN" APPROACH, REQUIRING A 96" [2438 MM] WIDE CORRIDOR.

NOTE: WHEN DELIVERING GANTRY FROM CORRIDOR TO CORRIDOR, THE SAME HOLDS TRUE AS CORRIDOR TO DOOR SIZE.

DETAIL NOT TO SCALE

**EQUIPMENT DETAIL**  
LASER TARGET REFLECTOR

B-IGS07  
REV. DATE: 09.AUG.12

MAXIMUM CMS INTERFACE ROOM HEIGHT: 130" (3205 MM)

DETAIL NOT TO SCALE

**GE Healthcare**  
Healthcare Project Implementation - Design Center  
Milwaukee, WI

SHEET TITLE: EQUIPMENT DETAILS  
MODALITY TYPE: DISCOVERY IGS

THIS PLAN IS SUBMITTED TO SURVEY LOCATION OF GE HEALTHCARE EQUIPMENT AND ASSOCIATED ELECTRICAL WIRING DETAILS AND ROOM ARRANGEMENTS. IN PREPARING THIS PLAN, EVERY EFFORT HAS BEEN MADE TO CONFORM TO ALL APPLICABLE REGULATIONS AND STANDARDS. GE HEALTHCARE DOES NOT ACCEPT LIABILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:  
**INTERVENTIONAL I.R. WITH ARM IMAGING**  
MILWAUKEE, WISCONSIN

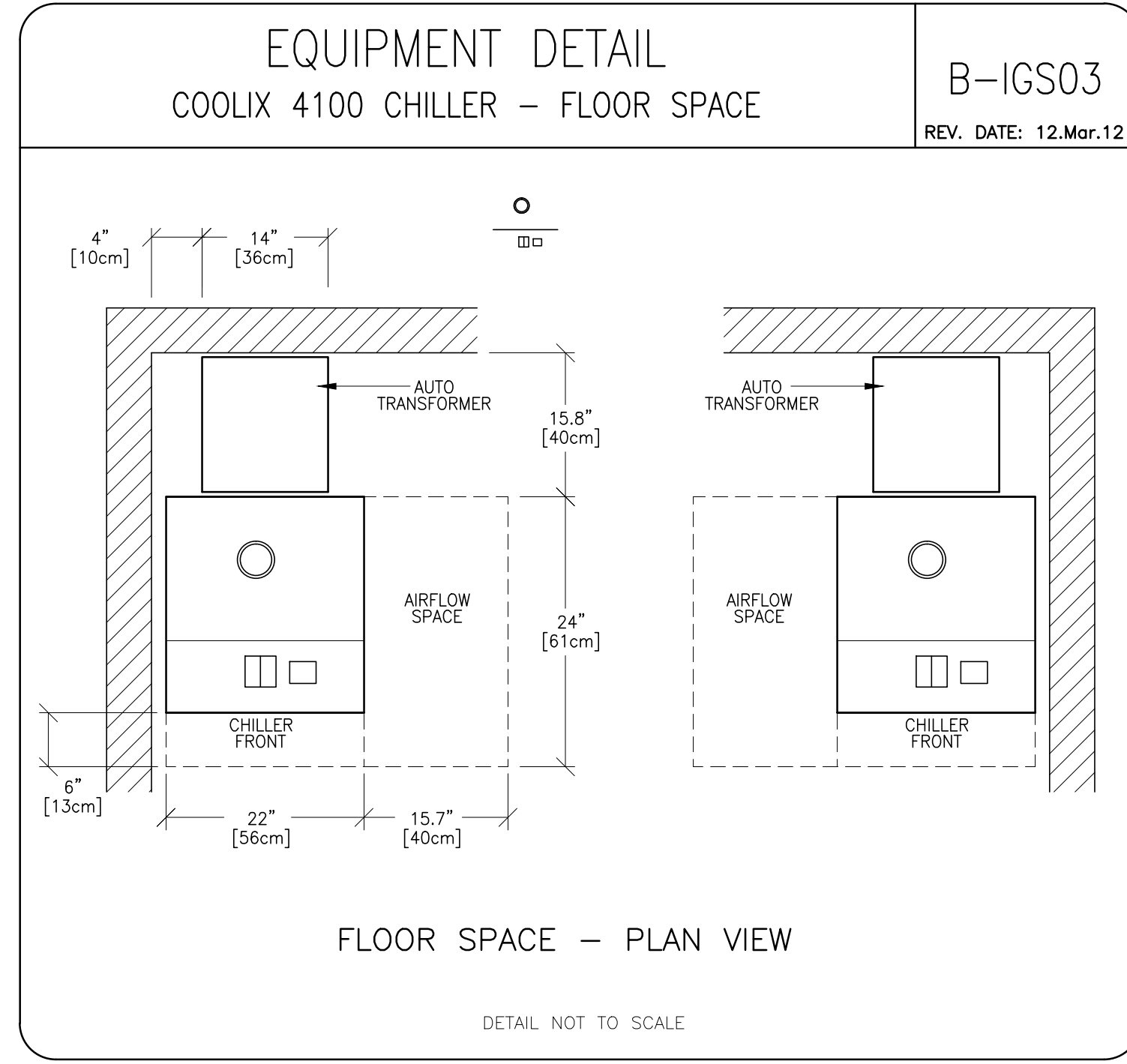
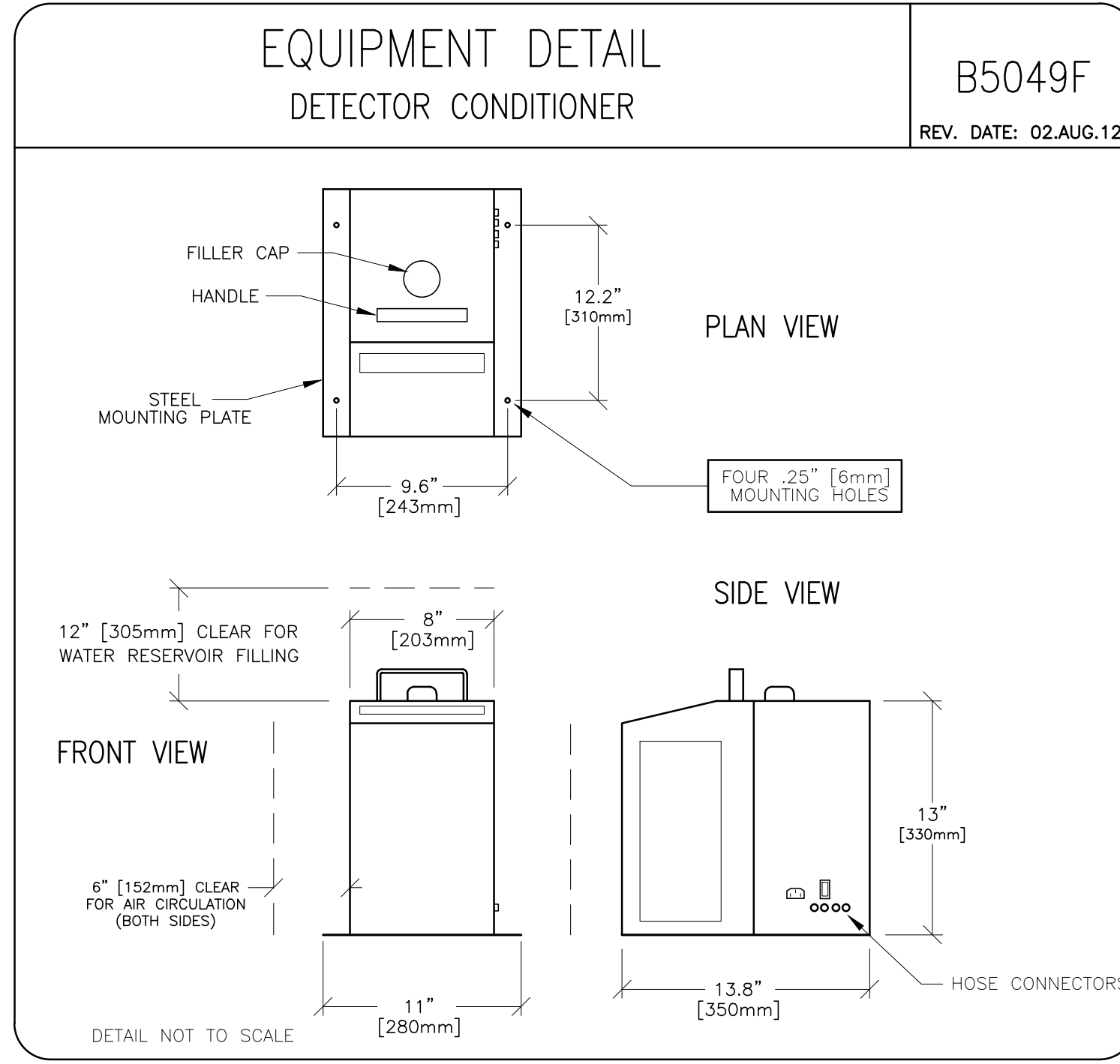
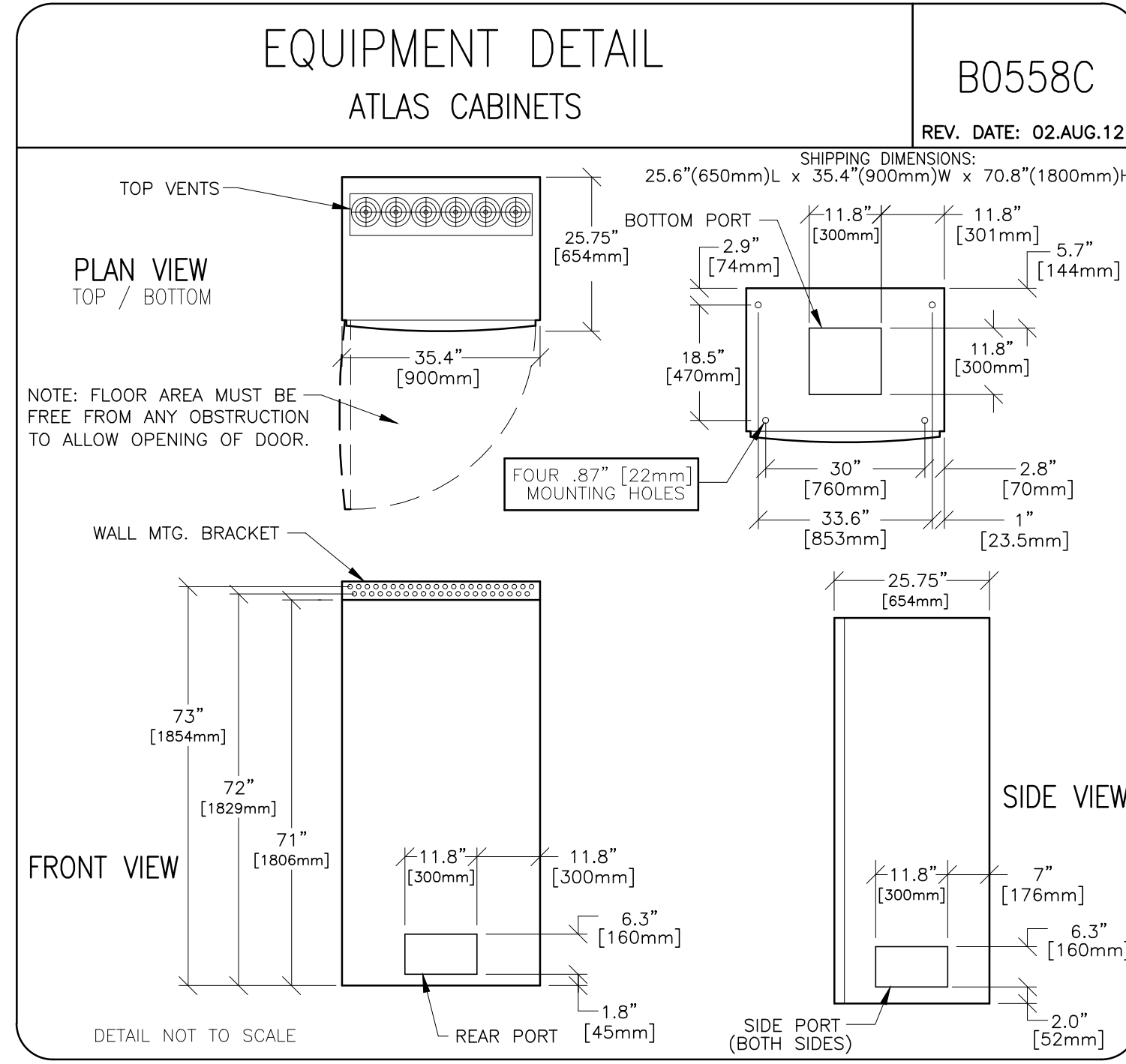
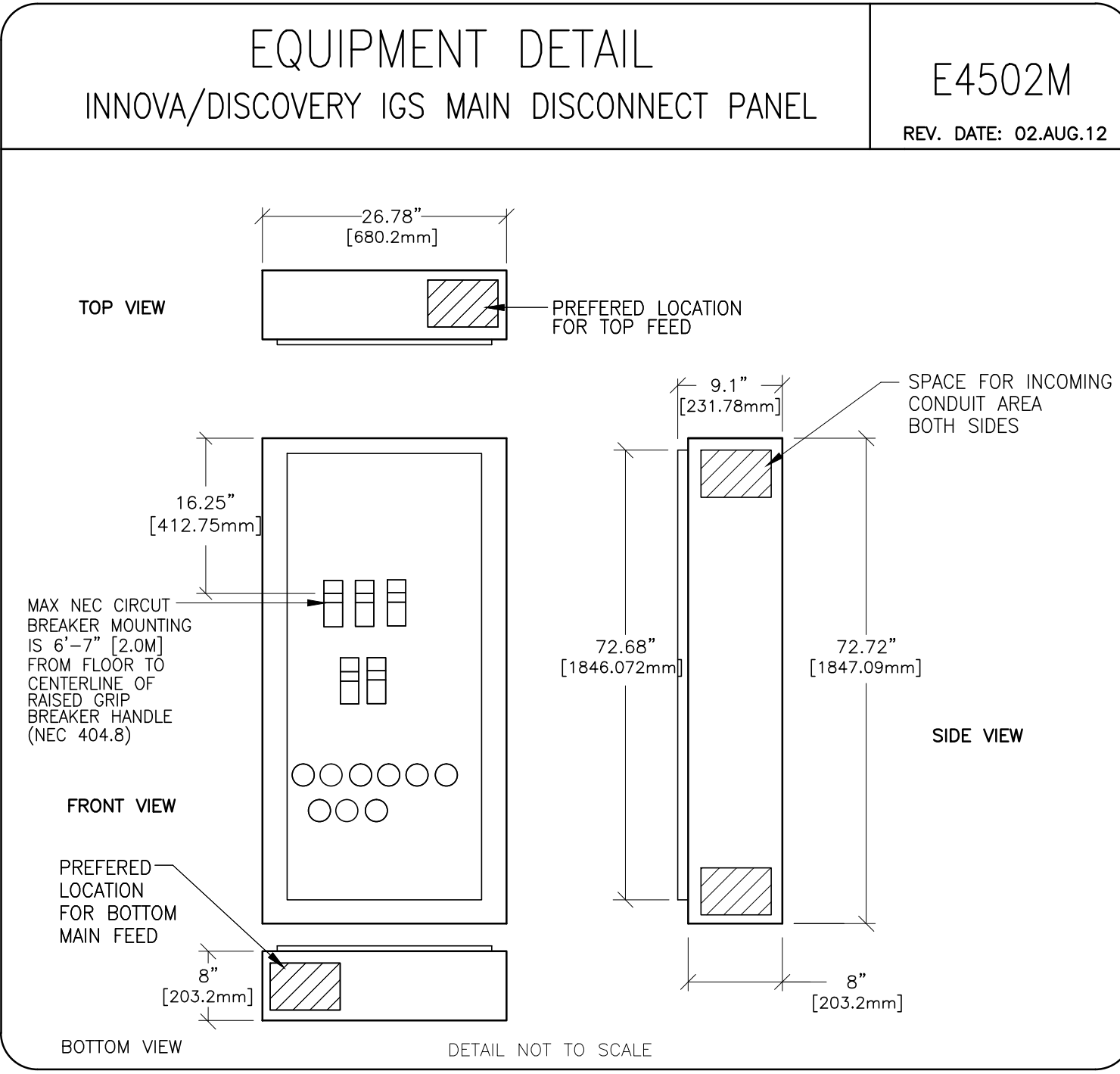
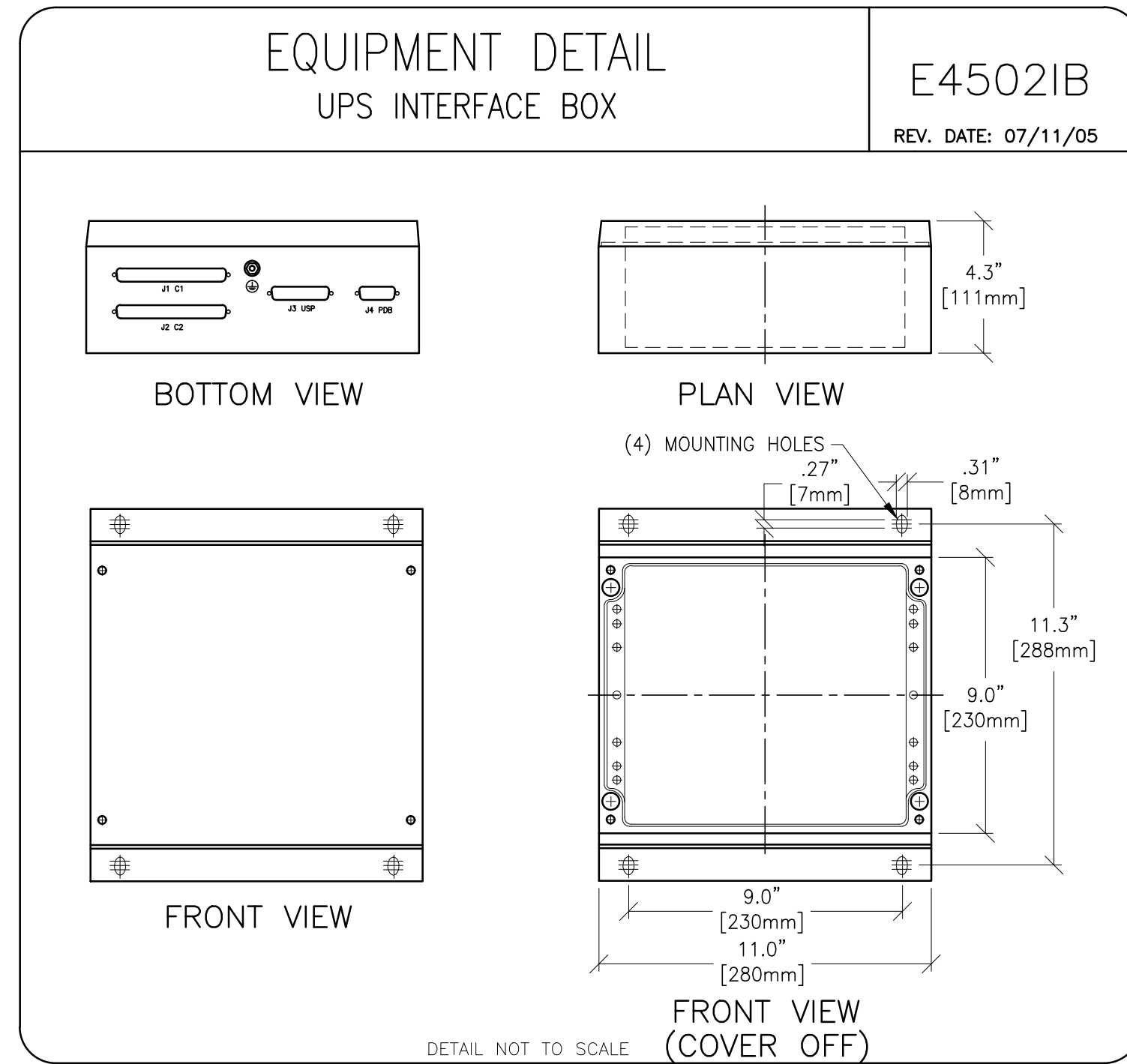
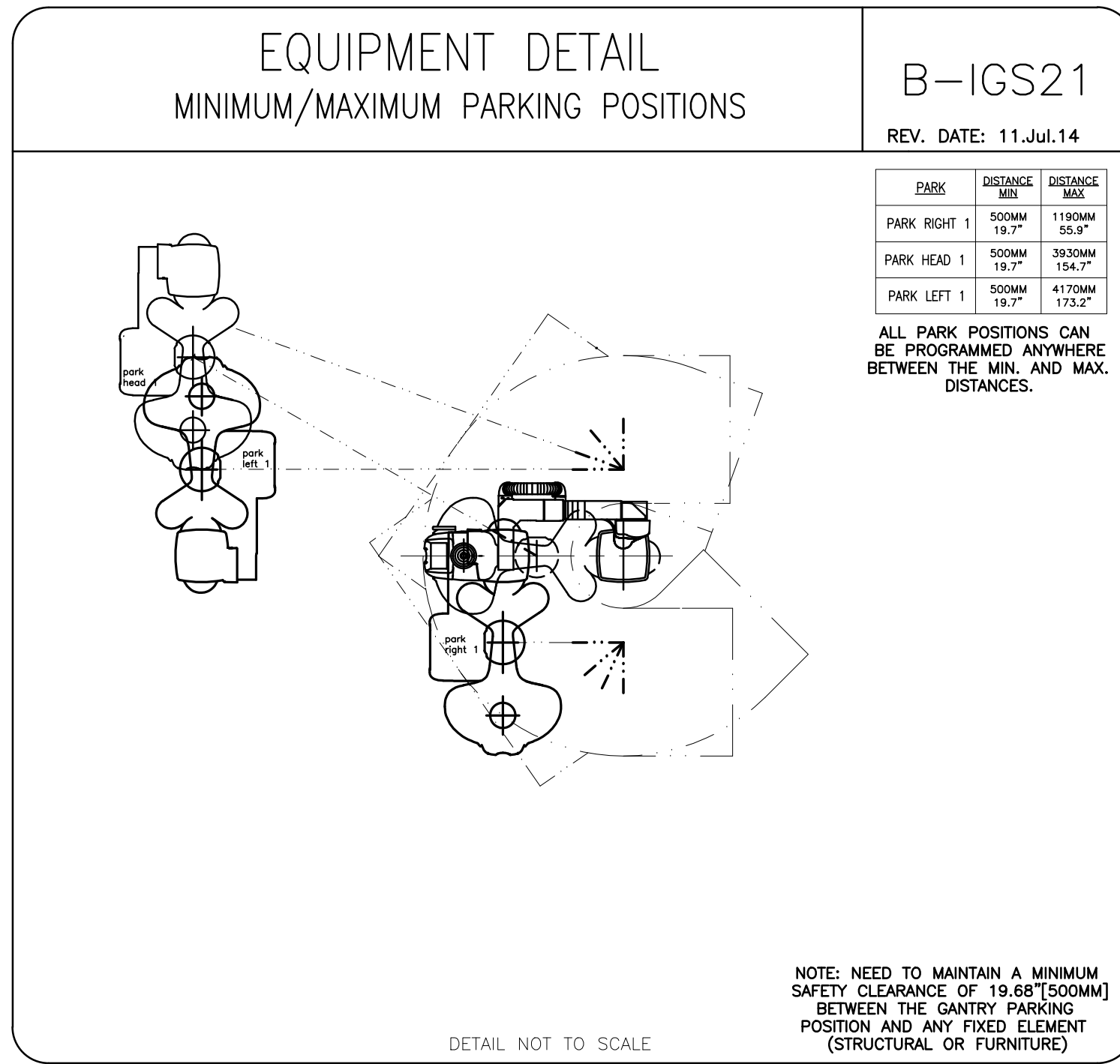
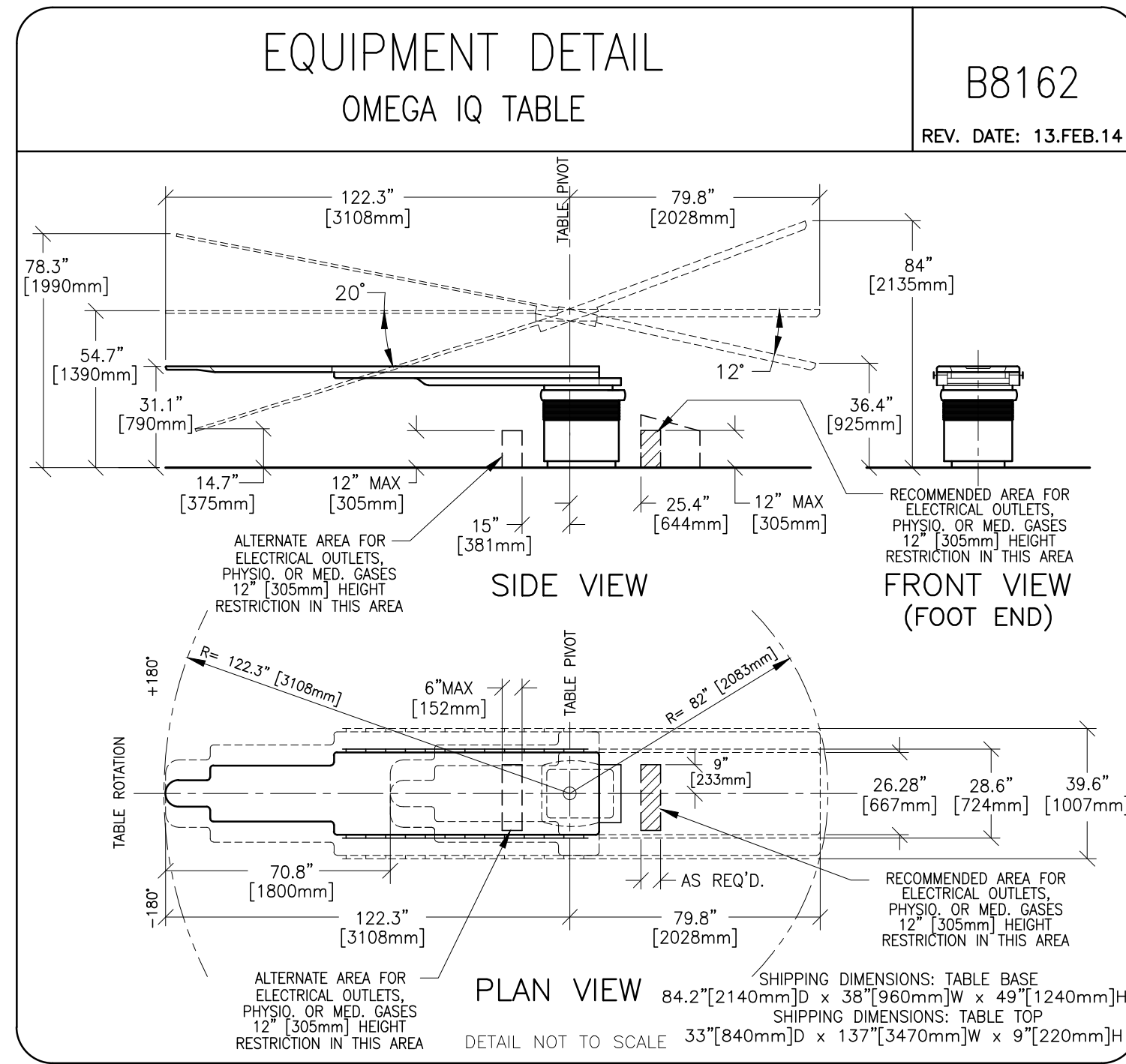
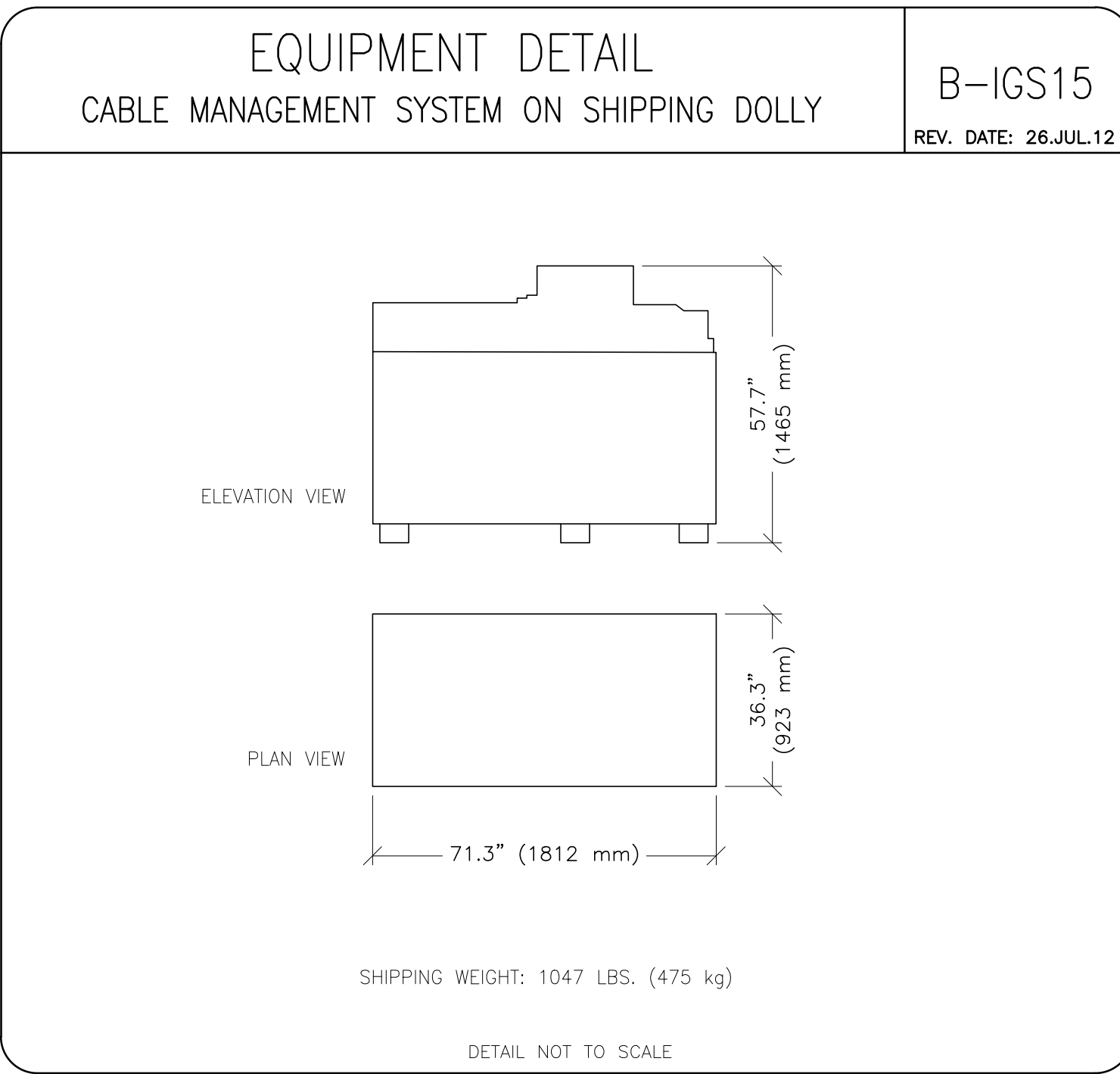
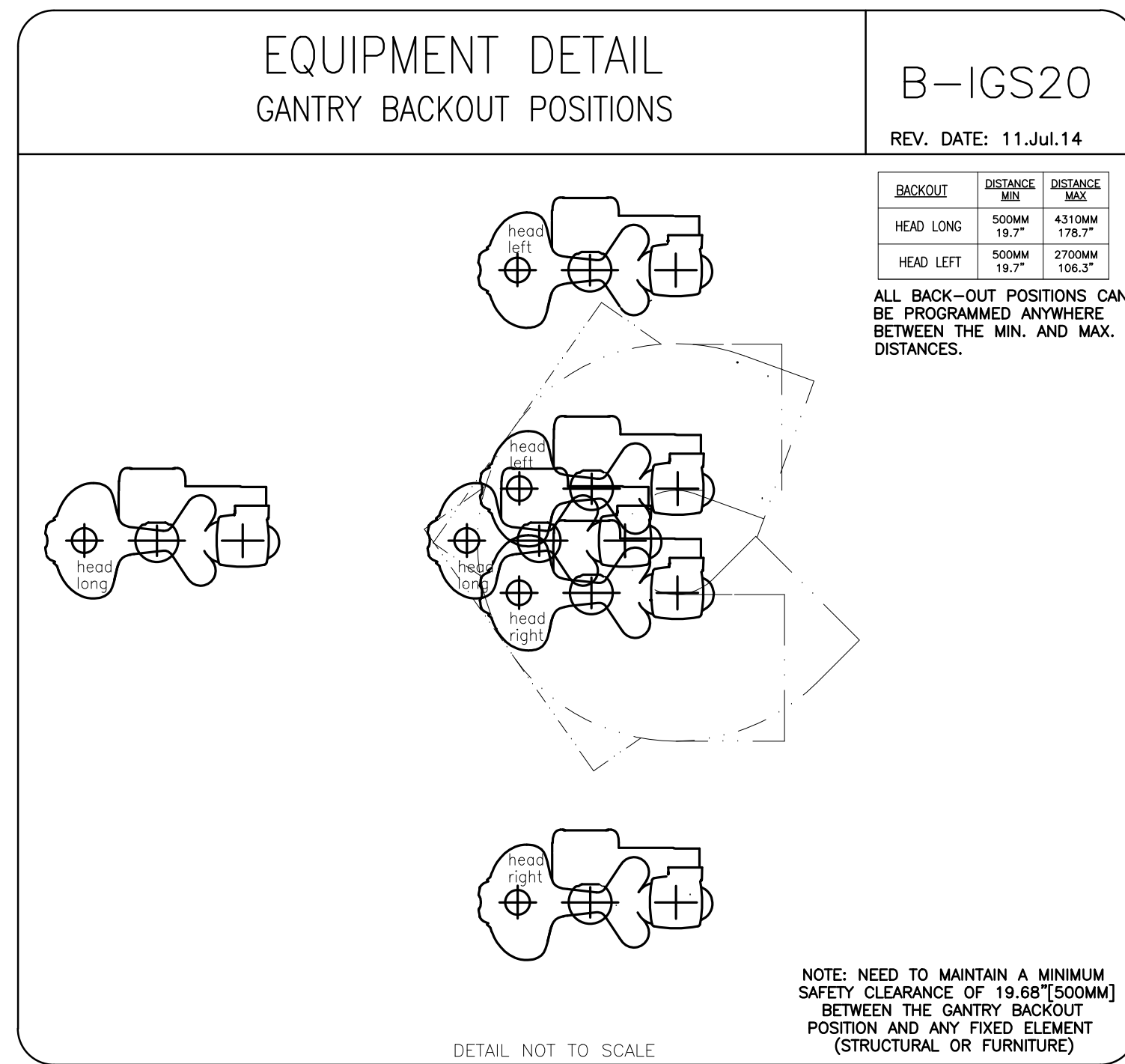
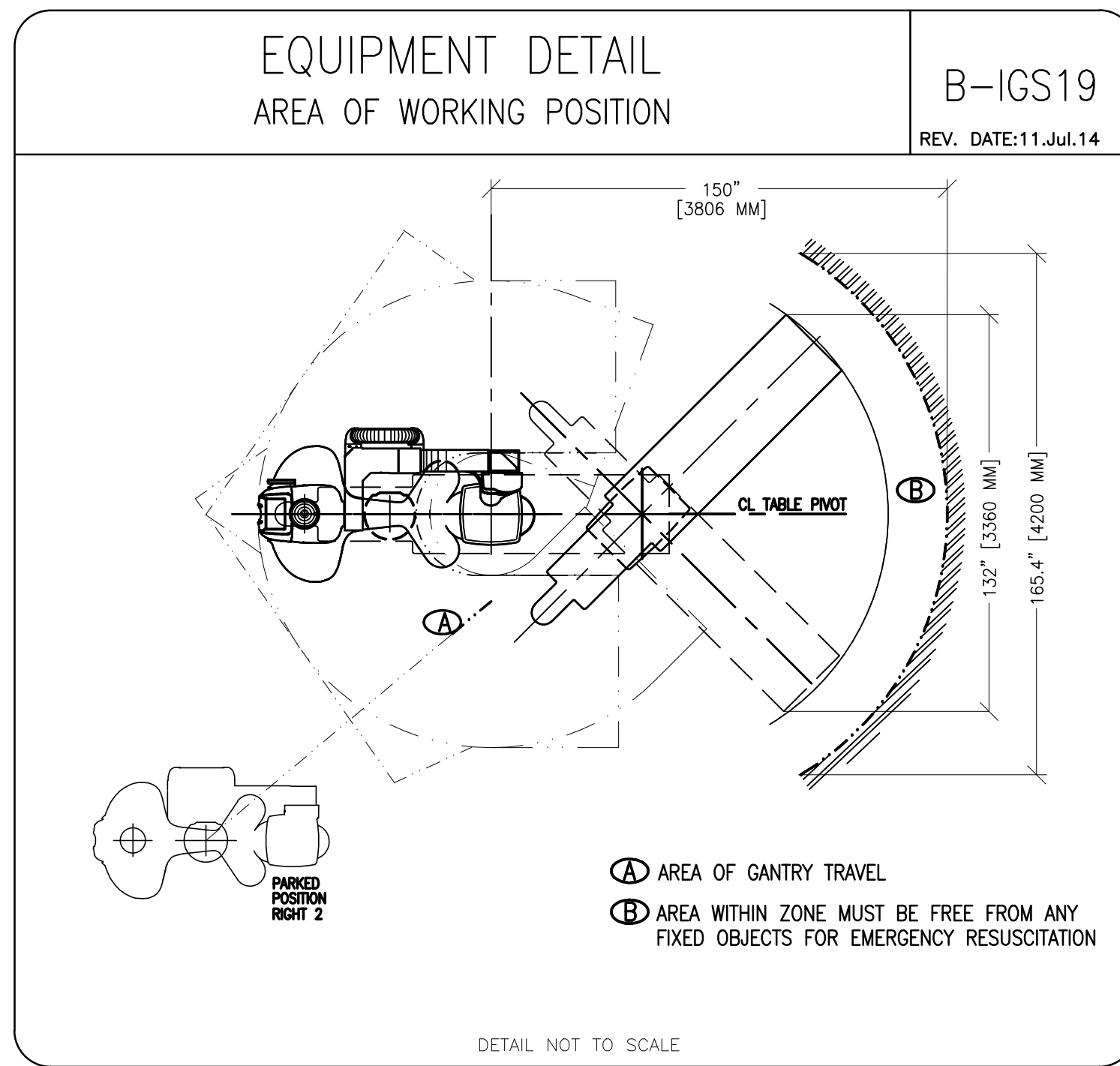
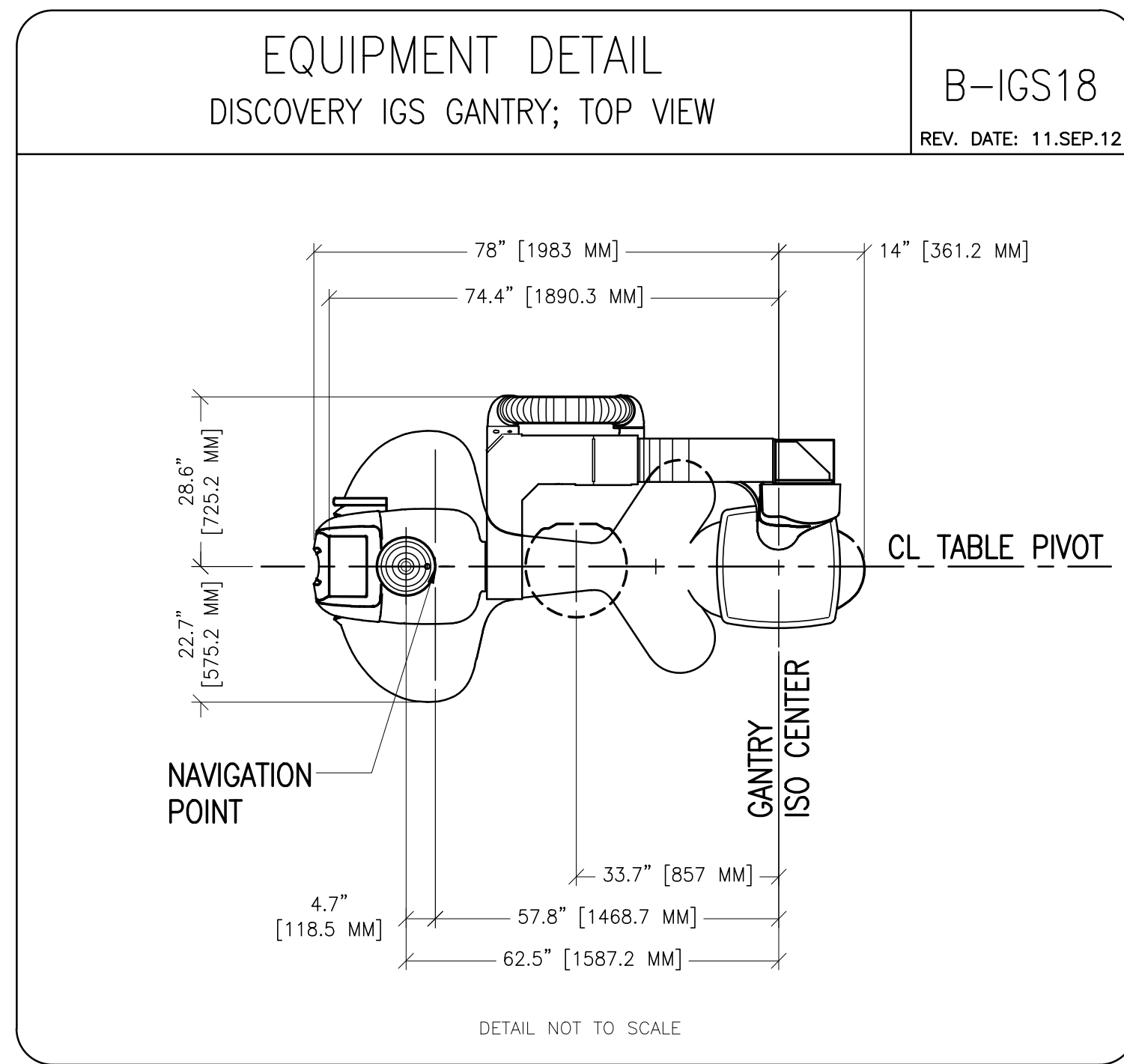
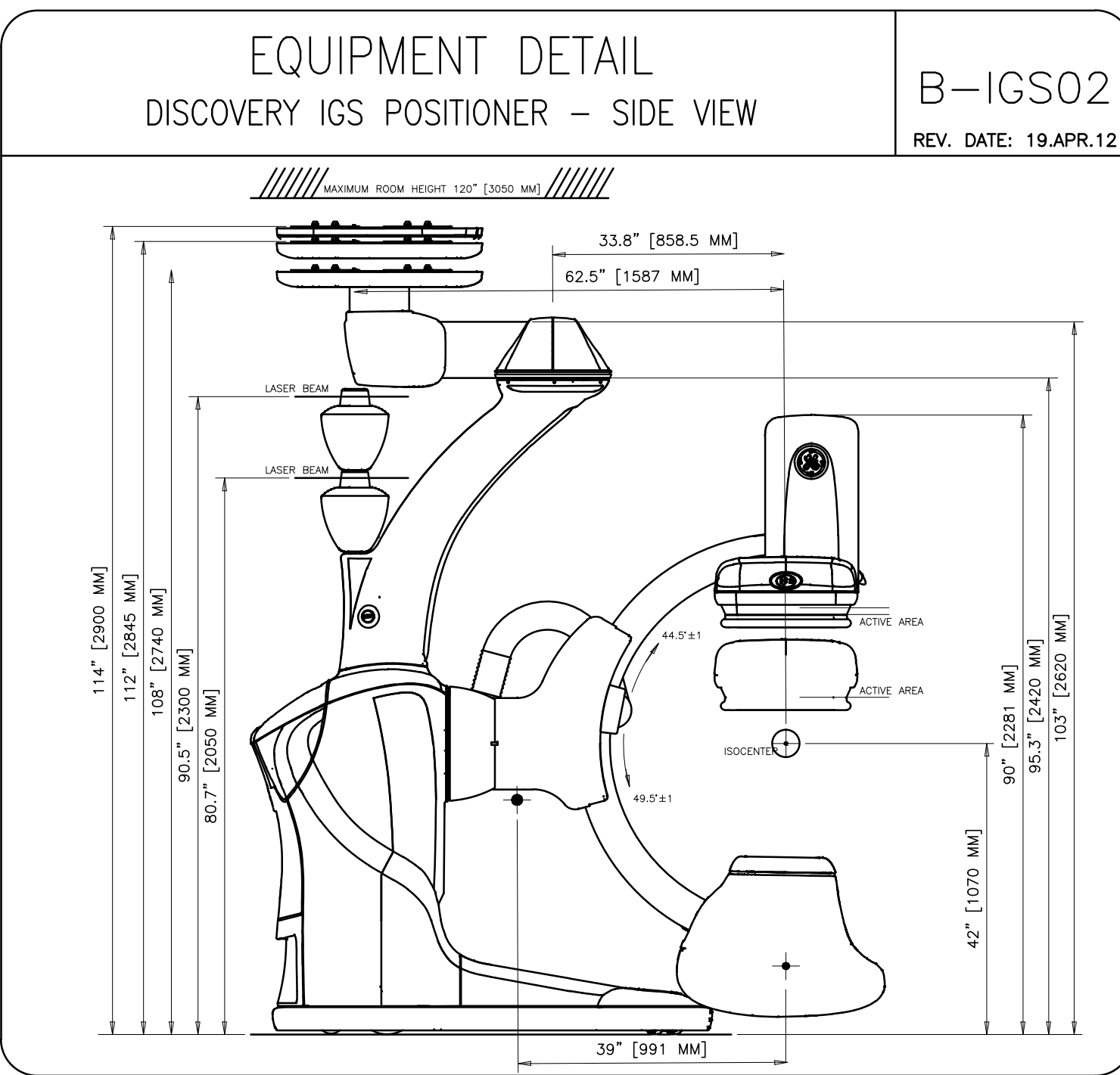
PROJECT	REVISION
4-96f	01

DATE: 22.Oct.15  
DRAWN BY: SLR  
CHECKED BY: TST

REVISION HISTORY:

SHEET  
**D1**

PIM R1  
RQ - 155703



**GE Healthcare**

Healthcare Project Implementation – Design Center  
Milwaukee, Wisconsin

SHEET TITLE: EQUIPMENT DETAILS  
MODALITY TYPE: DISCOVERY IGS

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PROJECT TITLE:  
**INTERVENTIONAL I.R. WITH ARM IMAGING**  
MILWAUKEE, WISCONSIN

PROJECT	REVISION
4-96f	01
DATE:	22.Oct.15
DRAWN BY:	SLR
CHECKED BY:	TST

REVISION HISTORY:

SHEET  
**D2**

**EQUIPMENT DETAIL**  
COOLIX 4100 CHILLER AND AUTOTRANSFORMER

**B-IGS04**  
REV. DATE: 12.MAR.12

47.2" [120cm]

DETAIL NOT TO SCALE

**EQUIPMENT DETAIL**  
COOLIX 4100 CHILLER AUTOTRANSFORMER

**B-IGS05**  
REV. DATE: 12.MAR.12

12" [304mm]

13.4" [340mm]

5" [11.5mm]

FRONT VIEW

15.2" [386mm]

13.4" [340mm]

SIDE VIEW

15.7" [40cm]

24" [61cm]

19.7" [50cm]

47.2" [120cm]

SIDE SPACE - ELEVATION VIEW

PLAN VIEW

DETAIL NOT TO SCALE

**EQUIPMENT DETAIL**  
DIGITAL ENERGY SG SERIES 10-20KVA UPS

**E4502SG**  
REV. DATE: 05/10/05

26.8" [680.7mm]

31.5" [800mm]

TOP VIEW

2.8" [71.1mm]

29.1" [739mm]

1.6" [40.6mm]

9.0" [228.6mm]

24.7" [627.3mm]

7.0" [177.8mm]

7.9" [200mm]

48.2mm

LEVELING FOOT (4)

BOTTOM VIEW

70.4" [1788.1mm]

39.4" [1000.7mm]

13.4" [340.3mm]

26.8" [680.7mm]

17.7" [449.5mm]

31.5" [800mm]

FRONT VIEW

70.4" [1788.1mm]

39.4" [1000.7mm]

SIDE VIEW

DETAIL NOT TO SCALE

**EQUIPMENT DETAIL**  
TABLESIDE CART

**B-IGS06**  
REV. DATE: 12.APR.12

31.7" [804mm]

47.6" [1210mm]

21.6" [549mm]

CART - FRONT VIEW

CART - TOP VIEW

CART - SIDE VIEW

DETAIL NOT TO SCALE

**EQUIPMENT DETAIL**  
XT RADIOGRAPHIC SUSPENSION, INBOARD MOUNTING

**B2004**  
REV. DATE: 18.APR.11

7.5" [19mm] DIA. HOLES

1.06" [27mm]

2.5" [64mm]

3.3" [84mm]

4" MAX. [102mm]

26" [660mm]

134" TO 228" (\* see note) [3404mm] [5791mm]

4" MIN. [102mm]

WALL

1.19" [30mm]

34.75" [883mm] (\* see note)

STATIONARY RAIL

56" [1422mm] (\* see note)

2" MIN. [51mm]

4" MAX. [102mm]

2" MIN. [51mm]

WALL

2" MIN. [51mm]

4" MAX. [102mm]

STATIONARY RAIL

DETAIL NOT TO SCALE

**EQUIPMENT DETAIL**  
LARGE DISPLAY MONITOR SUSPENSION

**B2015**  
REV. DATE: 15.MAR.12

10" [254mm] min.  
40" [995mm] max.

XT STATIONARY RAIL

CABLE DRAPE RAIL

HALFEN OR UNISTRUT STRUCTURE

XT INBOARD BRIDGE

35.4" [900mm]

62.2" [1580mm]

LARGE DISPLAY MONITOR:  
(USING LARGE DISPLAY MONITOR SUSPENSION)

GE MONITORS, MOUNTED TO  
BACKSIDE OF LARGE DISPLAY MONITOR

DETAIL NOT TO SCALE

**EQUIPMENT DETAIL**  
LARGE DISPLAY CABINET

**B2014**  
REV. DATE: 15.MAR.12

30.6" [778mm]

21.5" [545mm]

48.3" [1226mm]

PLAN VIEW

SIDE VIEW

FRONT VIEW

DETAIL NOT TO SCALE

**EQUIPMENT DETAIL**  
3kVA UPS (LARGE DISPLAY SUBSYSTEM OPTION)

**B2016**  
REV. DATE: 15.MAR.12

13.62" [346mm]

8.43" [214mm]

16.22" [412mm]

FRONT VIEW

PLAN VIEW

DETAIL NOT TO SCALE

**EQUIPMENT DETAIL**  
DL KEYPAD

**C7412H**  
REV. DATE: 02.AUG.12

3.23" [82mm]

9.37" [238mm]

11.82" [300mm]

DETAIL NOT TO SCALE

**EQUIPMENT DETAIL**  
19" FLAT PANEL MONITOR WITH STAND

**C7619D**  
REV. DATE: 20.MAR.12

16.6" [422.5mm]

17.7" [448.4mm]

13.7" [348.5mm]

3.7" [95mm]

FRONT VIEW

SIDE VIEW

PLAN VIEW

DETAIL NOT TO SCALE

**EQUIPMENT DETAIL**  
ADVANTAGE WINDOWS WORKSTATION

**M1013AW**  
REV. DATE: 20.MAR.12

15.75" [400mm]

6.93" [176mm]

17.1" [435mm]

ULTRAPARC STATION

16.6" [422.5mm]

17.7" [448.4mm]

7.9" [200mm]

19" FLAT PANEL MONITOR

18.0" [457mm]

7.25" [184mm]

2.25" [57mm]

KEYBOARD

DETAIL NOT TO SCALE

**EQUIPMENT DETAIL**  
RCIM WITH DL KEYBOARD CONSOLE

**C75-02**  
REV. DATE: 10/25/10

6.5" [165mm]

16.5" [420mm]

17.35" [440.7mm]

17.32" [440mm]

18" [458mm]

13.1" [337mm]

3.7" [94mm]

PC TOWER XW6400

FRONT VIEW

SIDE VIEW

PLAN VIEW

8.3" [210mm]

17.9" [455mm]

20.7" [525mm]

PC TOWER XW8200

18.1" [460mm]

6.5" [165mm]

KEYBOARD

DETAIL NOT TO SCALE

**GE Healthcare**

Healthcare Project Implementation - Design Center

Milwaukee, WI

SHEET TITLE: EQUIPMENT DETAILS

MODALITY TYPE: DISCOVERY IGS

THIS PLAN IS SUBMITTED TO ASSIST IN THE LOCATION OF GE HEALTHCARE EQUIPMENT AND ASSOCIATED ELECTRICAL WIRING DETAILS AND ROOM ARRANGEMENTS. IN PREPARING THIS PLAN, EVERY EFFORT HAS BEEN MADE TO CONFORM TO THE DETAILS AND DIMENSIONS SHOWN ON THE DRAWINGS. GE HEALTHCARE CANNOT BE HELD RESPONSIBLE FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:

**INTERVENTIONAL I.R. WITH ARM IMAGING**

MILWAUKEE, WISCONSIN

PROJECT	REVISION
4-96f	01

DATE: 22.Oct.15

DRAWN BY: SLR

CHECKED BY: TST

REVISION HISTORY:

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SHEET

**D3**