

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 equipment IS 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 IS and operation of such equipment in compliance with GE Healthcare's written specifications and all applicable federal, state, and/or local requirements.

* REQUIRED REFERENCE *

Innova Plus
Pre Installation Manual
5314528-2-1EN

A mandatory component of this drawing set is the GE Healthcare Pre Installation manual. Failure to reference the preIS 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 Healthcare



Cardio-Vascular
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 18

Before using this document ensure you have the latest revision MyWorkshop on DOC0422762

GEHC Global Order # : Customer: GEHC PM # : FE / Installer:

The customer is responsible for proper site preparation regardless of any GEHC measurements/inspections/assessments.

Inspection Date:					
Item #	GEHC Minimum Requirements	Storage Is Item Ready?	PM Is Item Ready?	FE Is Item Ready?	Comments If "N", enter comments or action plan
1	MRI Magnet Delivery Requirements: Ensure oxygen venting system is designed and installed with objective evidence that it is compliant with the GEHC Pre-Installation Manual (PIM) requirements, exhaust fan system is installed and operational, 480V power, and chilled water supply is available that meets system cooling requirements. Electrical connectivity is available for magnet monitoring and phone service is available during delivery.				
2	MRI Screen Room Requirements: RF Screen Room is tested with objective evidence that it is compliant with GEHC specifications. Dock Bolt® installed using 2 part anchors for new systems, blowers beam bunk bolts installed by RF vendor using 2 part anchors.				
3	State Regulatory Requirements: Site Drawing Requirements: final version of equipment installation drawings (including red lined version) verified to match actual room and has been provided to installer. X-ray shielding plan and state acknowledgment letter provided to installer for AR, DC, NC, SC, CO & WA.				
4	Site Drawing Requirements: Final version of equipment installation drawings (including red lined version) verified to match actual room and has been provided to installer.				
5	Surface Penetration Requirements: Customer/contractor scheduled to provide required drilling or cutting into floors, ceilings, and walls. DR surface penetrations permit available and posted in the room where GEHC will perform the work.				
6	Delivery Route Requirements: 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/handoffs have occurred. Arrangements have been made for special handling (elevator, rigging, floor protection, fork lift, or forklift truck, etc).				
7	Finished Room Requirements: Rooms that will contain equipment, including storage areas not in clean suite, are dust free. Precautions taken to maintain rooms containing equipment when construction is incomplete in adjacent areas. All walls primed (final coat not needed on Day 1). 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.				
8	Electrical Requirements: Main Disconnect Panel (MDP) is installed 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 lead-side wires can be installed at time of system installation.				
9	HVAC Requirements: The HVAC/Chilled Water system is designed to maintain the environment and appear to provide the desired environmental conditions temperature and humidity for system operation.				
10	Flooring Requirements: 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.				
11	Ceiling Requirements: Unistrut for equipment location, levelness and spacing is measured (or vendor confirmed) and consistent with the requirements of the installation drawings. Ceiling grid is installed. Permanent lighting is installed and operational. HVAC diffusers are installed and connected to ductwork. Ceiling tiles installed per PIM direction.				

GE Healthcare

IS Services Design Center

Minneapolis, Wisconsin
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SHEET TITLE: SITE READINESS

MODALITY TYPE: INNOVA PLUS

THIS PLAN IS SUBMITTED TO CURRENT 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 LATEST GEHC DRAWING REVISIONS. IT IS NOT ALLOWED TO BE USED FOR ANY OTHER PROJECTS WITHOUT THE APPROVAL OF THE COMPANY. THE COMPANY CANNOT ACCEPT RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:

INTERVENTIONAL CARDIOLOGY

TYPICAL FINAL LAYOUT

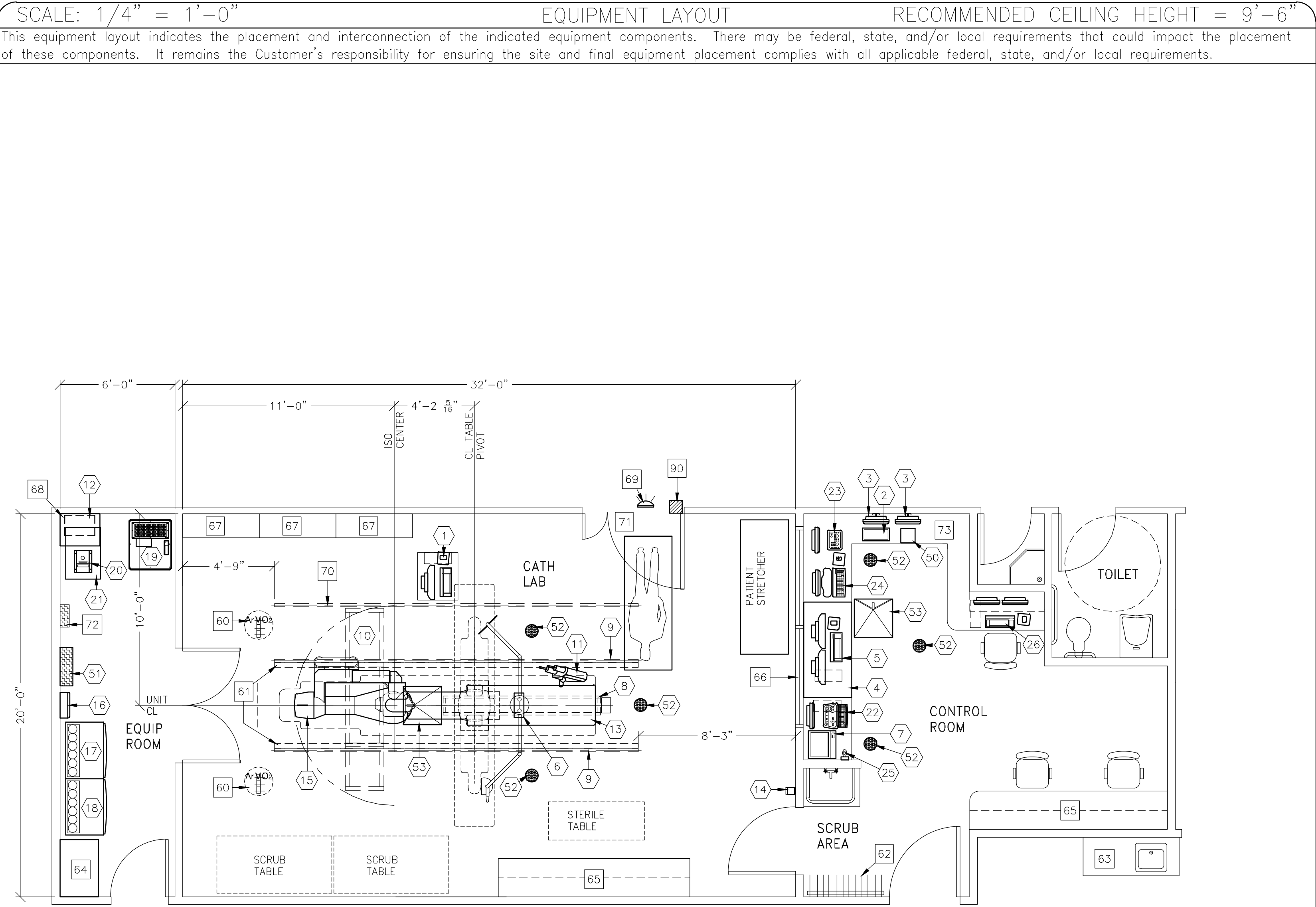
PROJECT	REVISION
5-90f	01
DATE:	02.May.11
DRAWN BY:	LLM
CHECKED BY:	TST

REVISION HISTORY:

SHEET

C1

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				EQUIPMENT CROSS REFERENCE CHART		
NOTE: LOCAL CONDITIONS MAY DICTATE THAT ITEMS IDENTIFIED IN THIS CATEGORY BE INSTALLED BY OTHERS.				SEISMIC STATUS	P = PREAPPROVAL C = CALCULATIONS/ PENDING APPROVAL S = SPECIFICATIONS ONLY	
ITEM NO.	QUANTITY ORDERED	REFER TO SHEET "D"				
ITEM NO.	ITEM DESCRIPTION (* = EXISTING/REINSTALL)	WEIGHT	HEAT OUTPUT (PER HOUR)	DETAIL NO.	STRC PLAN	ELEC PLAN
1	NURSING NOTES WORKSTATION (ON CUSTOMER SUPPLIED CART)	46 lbs	682 btu		-	S
2	REMOTE CONTROL FOR INJECTOR	4 lbs		B5028	-	IEC S
3	18 IN. MONITOR ON WALL SUPPORT	26 lbs	204 btu	C7617B	-	WBM2 C
4	WORKSTATION CART			---	---	-
5	MAC LAB CONSOLE, INCLUDES MONITORS AND KEYBOARD	566 lbs	2935 btu	---	PC	S
6	TRAM NET RACK	8 lbs		B5047	---	TRAM S
7	COLOR PRINTER		1054 btu	---	---	S
8	COUNTERBALANCED EYE AND THYROID SHIELD WITH 856 LAMP	143 lbs		B5031E	---	LMP S
9	LONGITUDINAL STATIONARY RAIL FOR XT SUSPENSION	68 lbs		B20 078	---	C
10	FOUR LCD MONITOR SUSPENSION ON 9 FT. 6 IN. XT INBOARD BRIDGE	485 lbs	1157 btu	B2004 B2010A	---	WBM1 C
11	INJECTOR HEAD ON TABLE RAIL	15 lbs		B5030A	---	IH S
12	INJECTOR ELECTRONICS	37 lbs	320 btu	B5028	---	IE S
13	OMEGA IV/V TABLE WITH ROTATING TOP	1750 lbs	614 btu	B50 43N	---	LU5 C
14	XR BUZZER (LOCATED ABOVE CEILING)	2 lbs		B5150H	---	XR B -
15	INNOVA POSITIONER (REFERENCE TABLE BASE-PLATE DETAIL FOR FLOOR MOUNTING INFORMATION)	1653 lbs	2416 btu	B5050A B5050B B5050C B5050D B5050E B5050F B5050H B5050J B5050P B5050R	---	LC1 C
16	UPS INTERFACE BOX			E45021B	---	UI B -
17	ATLAS CABINET (C2)	659 lbs	1825 btu	B0558C	S100 C2	C
18	ATLAS CABINET (C1)	1115 lbs	3389 btu	B0558C	S100 C1	C
19	UPS CABINET	1170 lbs	4061 btu	E45025G	---	UPS -
20	DETECTOR CHILLER	33 lbs	706 btu	B5049F	---	DC S
21	WATER CHILLER	449 lbs	18716 btu	M0917B	---	CHLR C
22	IVUS VOLCANO S51 CONSOLE, INCLUDES FLAT PANEL MONITOR AND KEYBOARD (DESK MOUNTED)	68 lbs	1631 btu	B551	---	IVUS -
23	CONTROL ROOM MONITOR WITH DIL KEYPAD	22 lbs	204 btu	C7412H C7617	---	S
24	OPERATORS CONSOLE	22 lbs	546 btu	C7617 C7502 B5050C	---	WBC1 C
25	BOLUS CHASE HANDSWITCH	2 lbs		---	---	WBBC -
26	AW WORKSTATION	81 lbs	1201 btu	M1013AW C7617	---	C
THE FOLLOWING ITEMS, WHICH HAVE BEEN ORDERED FROM GE HEALTHCARE, ARE TO BE INSTALLED BY THE CUSTOMER OR HIS CONTRACTOR.						
50	1 VITALING CONSOLE			B0566	-	-
51	1 INNOVA MAIN DISCONNECT, REFERENCE JUNCTION POINT (PDB) ON SHEET E1 FOR DETAILED DESCRIPTION.	386 lbs	1532 btu	E4502M	-	PDB -
52	6 VITALING SPEAKER				-	-
53	2 VITALING MICROPHONE				-	-



ANCILLARY ITEMS

CUSTOMER/CONTRACTOR SUPPLIED AND INSTALLED ITEMS

ITEM NO.	ITEM DESCRIPTION (* INDICATES EXISTING)
60	MED GASES IN CEILING
61	BEARING BLOCK OUTLINE, SEE S1 FOR MORE INFORMATION.
62	LEAD APRON RACK
63	COUNTER TOP WITH SINK AND BASE CABINETS
64	CUSTOMER SUPPLIED STORAGE CABINET
65	COUNTER TOP WITH BASE AND WALL CABINETS
66	CONTROL WALL TO CEILING WITH LEAD GLASS WINDOW
67	CATHETER CABINETS
68	SHELF - CUSTOMER TO PROVIDE ADEQUATE WALL SUPPORT
69	X-RAY ON WARNING LIGHT - AVAILABLE FROM GE SUPPLY CALL: 800-200-9760 GE CAT. NO. WXLABW-DF-XIU
70	CABLE DRAPE RAIL
71	MINIMUM DOOR OPENING FOR EQUIPMENT DELIVERY IS 44 IN. W X 83 IN. H (1118mm X 2108mm). CONTINGENT ON A 96 IN. (2438mm) CORRIDOR WIDTH
72	150-AMP LOCAL SERVICE DISCONNECT FOR LOCK-OUT/TAG-OUT CAPABILITY (MAY BE A FUSED DISCONNECT, CIRCUIT BREAKER OR SAFETY SWITCH.)
73	COUNTER TOP FOR EQUIPMENT- MINIMUM DEPTH 30 IN. OR ADDITIONAL SHELVING MAY BE REQUIRED TO PROVIDE GROMMETED OPENINGS AS REQUIRED TO ROUTE INTERCONNECT CABLES TO RACEWAY BELOW COUNTERTOP.
90	X-RAY ROOM WARNING LIGHT/ROOM LIGHTING CONTROL PANEL. REFERENCE JUNCTION POINT (PDB) ON SHEET E1 FOR DETAILED DESCRIPTION -CAT. NO. E4502SS FOR WARNING LIGHT & ROOM LIGHT CONTROL.

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 I.S. 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

- EQUIPMENT ROOM AMBIENT OPERATING TEMPERATURE: 55 TO 75 DEGREES (F). MAXIMUM ALLOWABLE TEMPERATURE CHANGE OF 15 DEGREES (F)/HOUR, WITH 20% - 75% HUMIDITY.
- EXAM ROOM AMBIENT OPERATING TEMPERATURE: 55 TO 75 DEGREES (F). MAXIMUM ALLOWABLE TEMPERATURE CHANGE OF 15 DEGREES (F)/HOUR, HUMIDITY: 10% - 70%.
- CONTROL ROOM AMBIENT OPERATING TEMPERATURE: 59 TO 75 DEGREES (F). MAXIMUM ALLOWABLE TEMPERATURE CHANGE OF 15 DEGREES (F)/HOUR, HUMIDITY: 30% - 80%.
- ALTITUDE: NOT TO EXCEED 8,000 FT. 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

IMAGE INTENSIFIERS 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

IS Services Design Center

Minneapolis, Wisconsin

SHEET TITLE: EQUIPMENT LAYOUT

MODALITY TYPE: INNOVA PLUS

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PROJECT TITLE:

INTERVENTIONAL CARDIOLOGY

TYPICAL FINAL LAYOUT

PROJECT	REVISION
5-90f	01

DATE: 02.May.11

DRAWN BY: LLM

CHECKED BY: TST

REVISION HISTORY:

SHEET

A1

THIS SHEET IS PART OF THE DOCUMENT SET LISTED ON SHEET C1 AND SHOULD NOT BE SEPARATED

TYPICAL WALL SUPPORT ELEVATIONS

S115

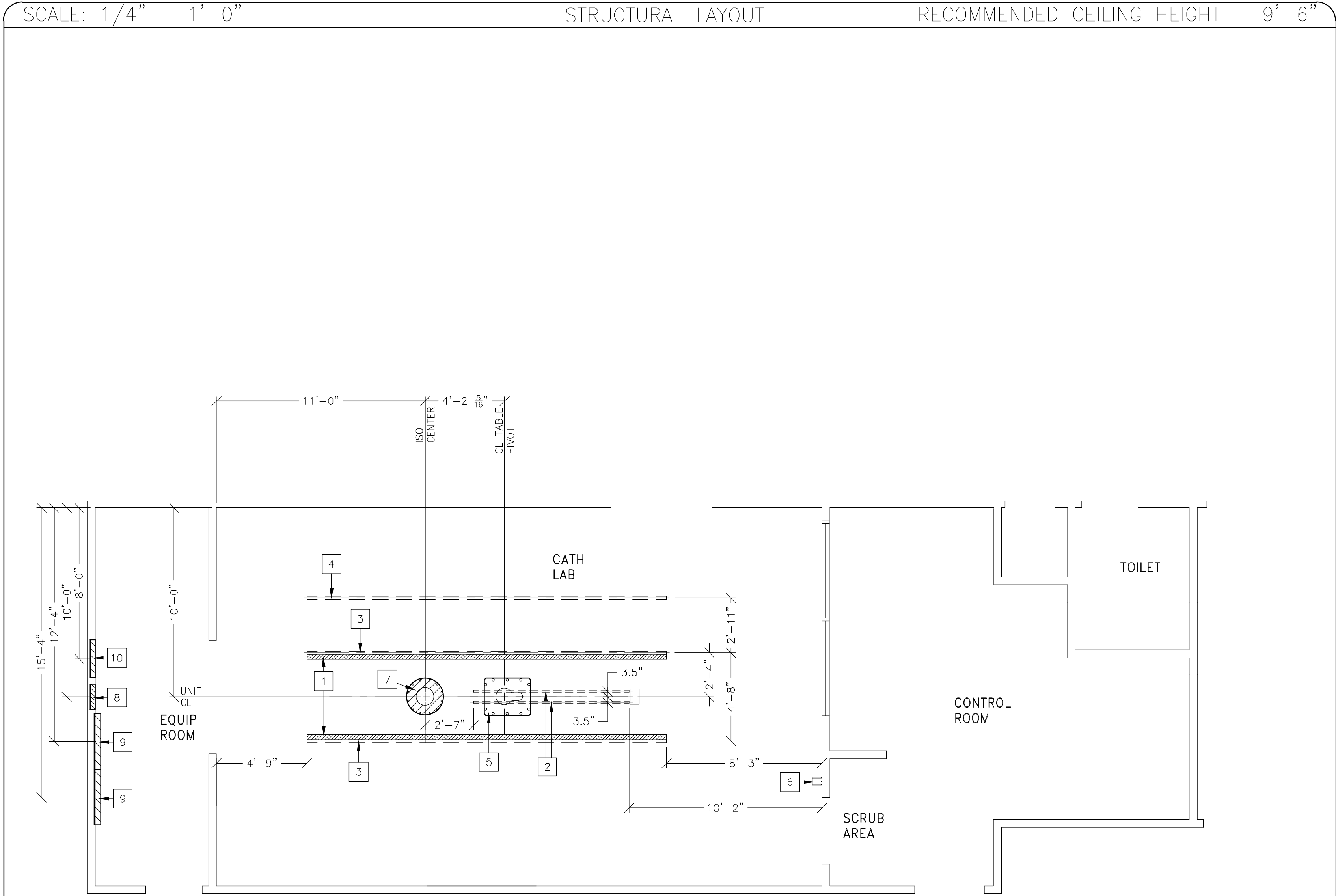
SUPPORT FOR UPS INTERFACE BOX
(NOT TO SCALE)

S100

SUPPORT FOR ATLAS/SYSTEMS CABINET
(NOT TO SCALE)

S107

SUPPORT FOR MAIN DISCONNECT CONTROL
(NOT TO SCALE)



STRUCTURAL SUPPORT METHODS

CUSTOMER/CONTRACTOR SUPPLIED AND INSTALLED ITEMS

ITEM NO.	ITEM DESCRIPTION (* INDICATES EXISTING)
1	HATCHED AREA INDICATES MONITOR BRIDGE BEARING BLOCK PATH.
2	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, FLUSH WITH FINISHED CEILING. SUSPENSION REQUIRES 102 LBS/BOLT SUPPORT. METHODS OF SUPPORT THAT WILL PERMIT ATTACHMENT TO STRUCTURAL STEEL OR THROUGH BOLTS IN CONCRETE CONSTRUCTION SHOULD BE FAVORED. DO NOT USE SCREW ANCHORS IN DIRECT TENSION.
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 2'-2" AND REQUIRE 350 LBS. <597 LBS. IN SEISMIC REGIONS> PER BOLT LOAD. METHODS OF SUPPORT THAT PERMIT ATTACHMENT TO STRUCTURAL STEEL OR THROUGH BOLTS IN CONCRETE SHOULD BE FAVORED. DO NOT USE SCREW ANCHORS IN DIRECT TENSION.
4	>>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 2'-2" AND REQUIRE 50 LBS. PER BOLT LOAD. METHODS OF SUPPORT THAT PERMIT ATTACHMENT TO STRUCTURAL STEEL OR THROUGH BOLTS IN CONCRETE SHOULD BE FAVORED. TO ORDER, CALL UNISTRUT WISCONSIN AT 262-796-8710.
5	AREA OCCUPIED BY GE SUPPLIED TABLE BASEPLATE
6	MOUNT XR BUZZER BRACKET ON WALL ABOVE CEILING
7	AREA OCCUPIED BY GE SUPPLIED POSITIONER BASEPLATE
8	SUPPORT BACKING, LOCATE AS SHOWN, REFER TO ELEVATION DETAIL S115 FOR UPS INTERFACE BOX.
9	SUPPORT BACKING, LOCATE AS SHOWN, REFER TO ELEVATION DETAIL S100, FOR ATLAS CABINET.
10	SUPPORT BACKING, LOCATE AS SHOWN, REFER TO ELEVATION DETAIL S107, FOR MAIN DISCONNECT CONTROL.

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.
(10) 12,7mm (1/2") DIA. x 38,1mm (1 1/2") LONG BOLTS WITH UNISTRUT 12,7mm (1/2") NUTS WITH SPRINGS ARE TO BE PROVIDED BY CUSTOMER OR HIS CONTRACTORS FOR EACH STATIONARY AND AUXILIARY SUPPORT RAIL. 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.
- 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"

PROJECT TITLE:

INTERVENTIONAL CARDIOLOGY

TYPICAL FINAL LAYOUT

PROJECT TITLE:

STRUCTURAL LAYOUT

MODALITY TYPE: INNOVA PLUS

THIS PLAN IS SUBMITTED TO CORRECT 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 ACTUAL CONSTRUCTION. HOWEVER, THE COMPANY CANNOT ACCEPT RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT

5-90f

DATE:

02.May.11

DRAWN BY:

LLM

CHECKED BY:

TST

REVISION

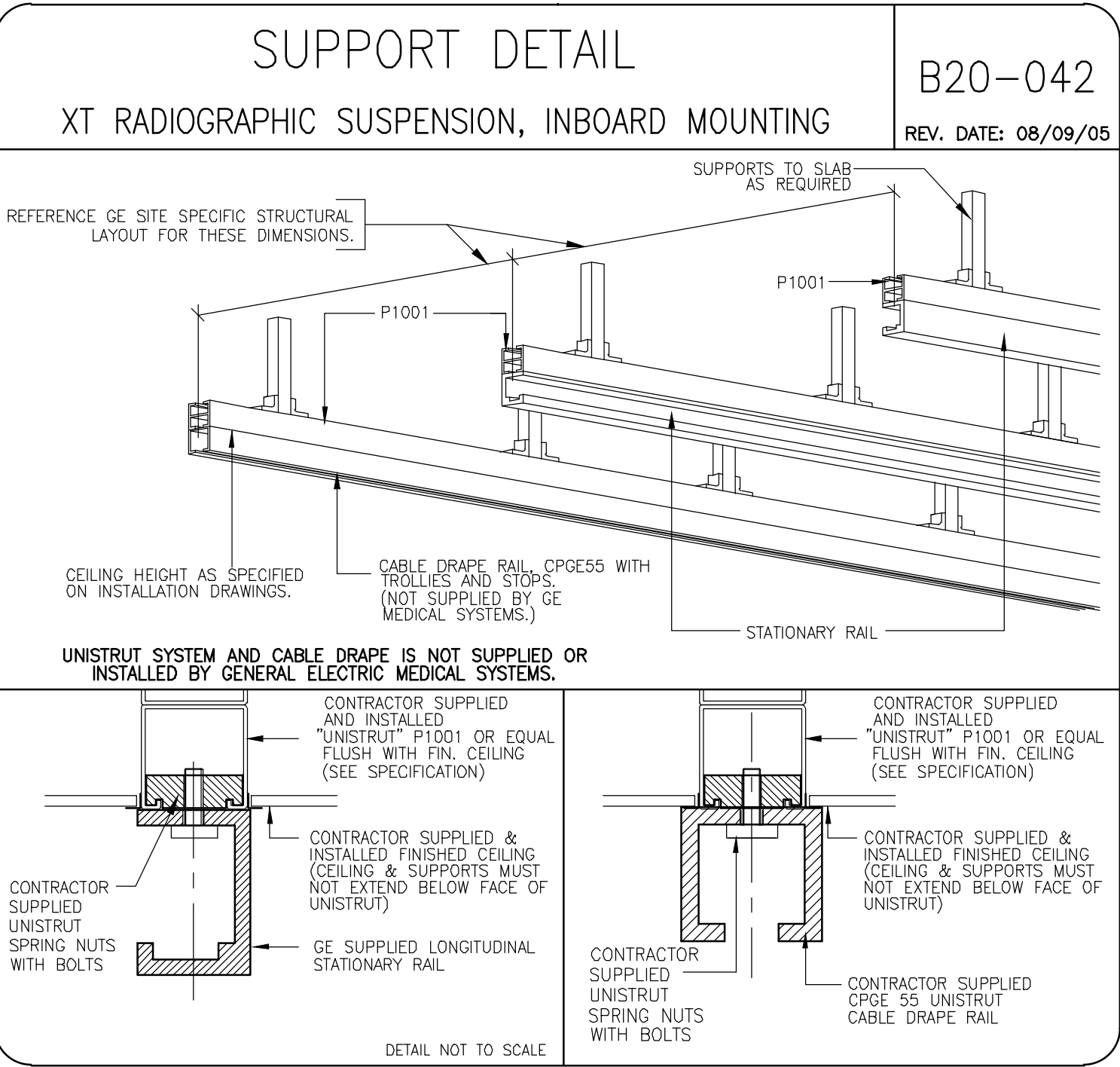
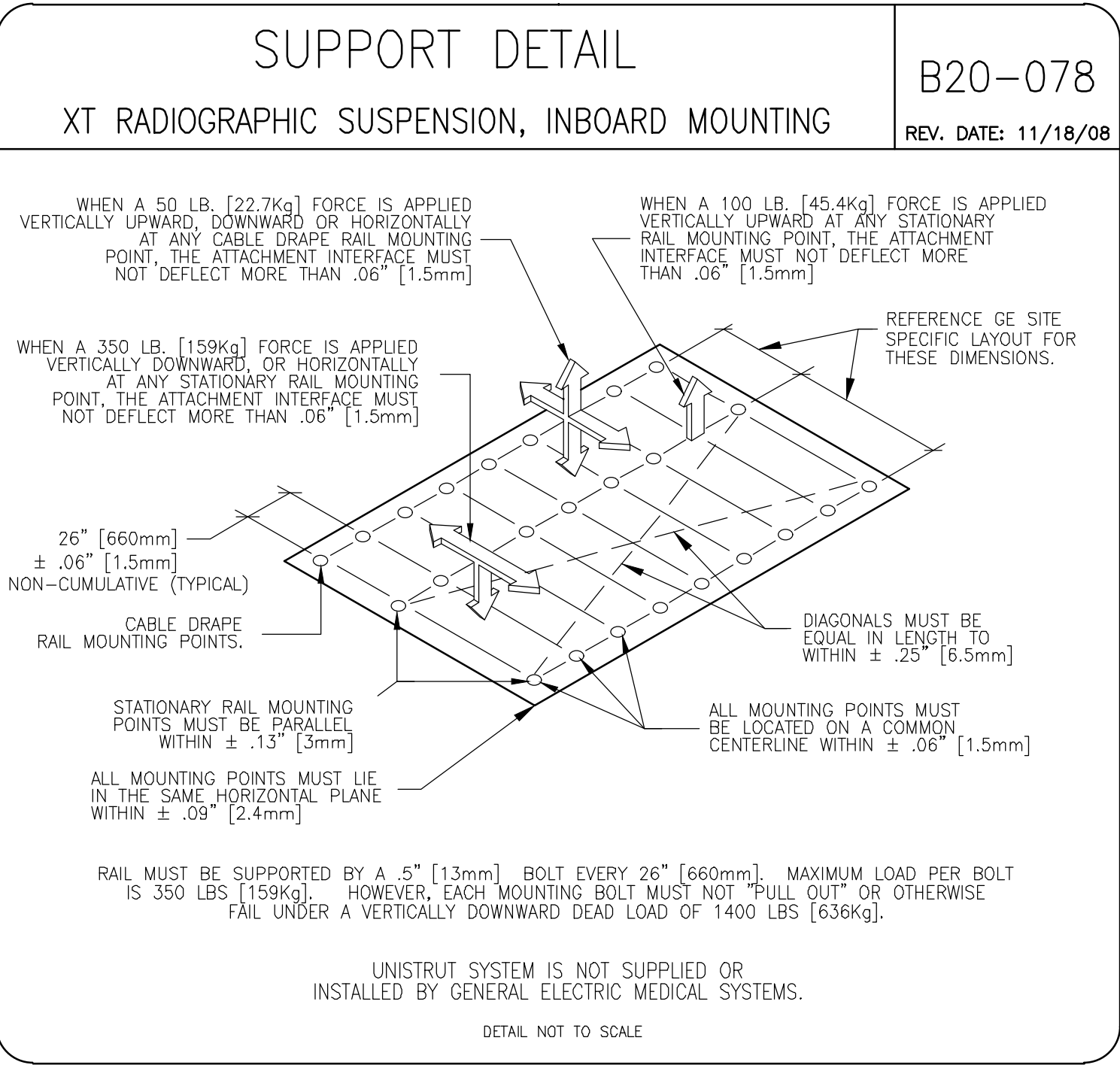
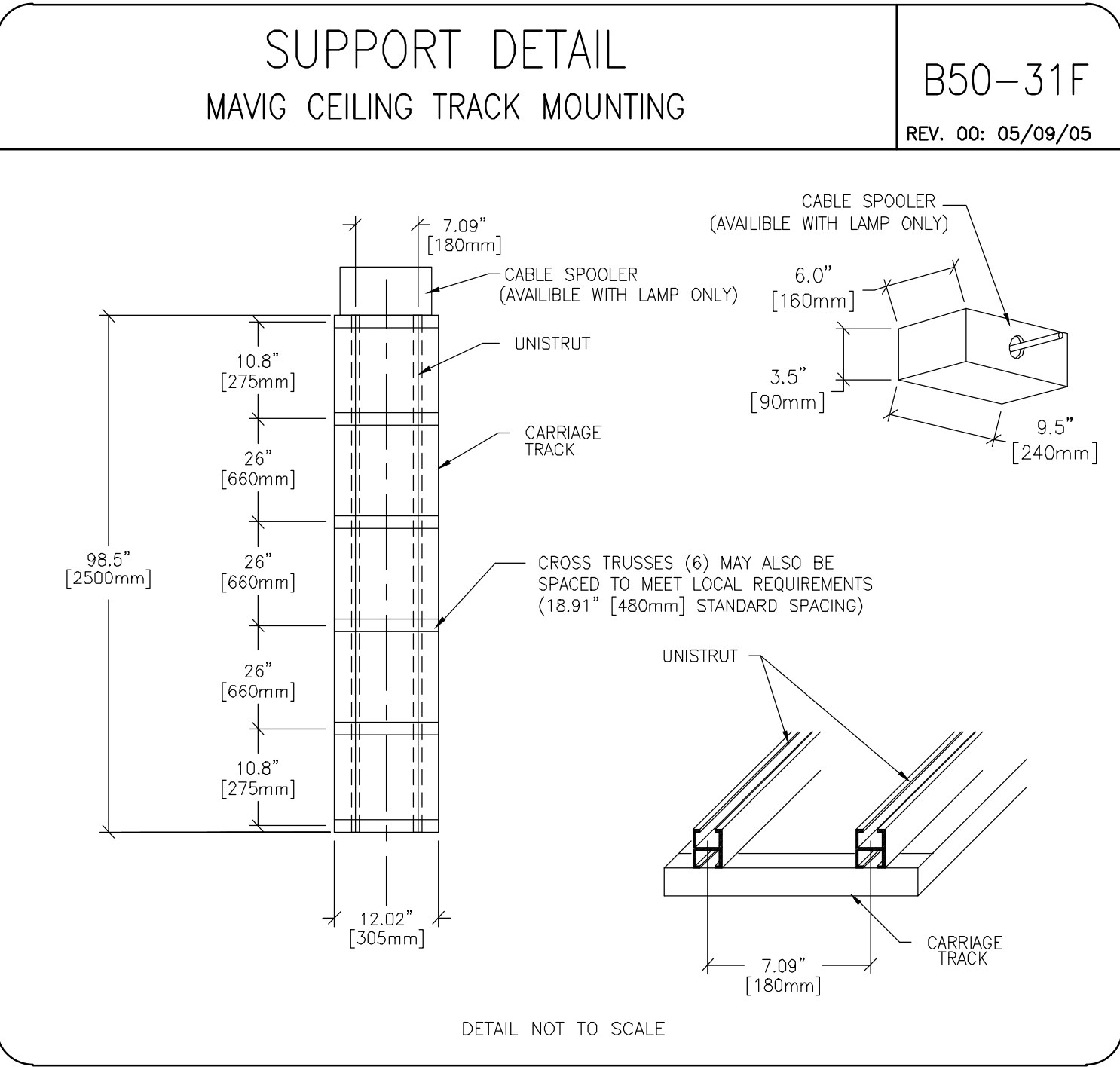
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REVISION HISTORY:

SHEET

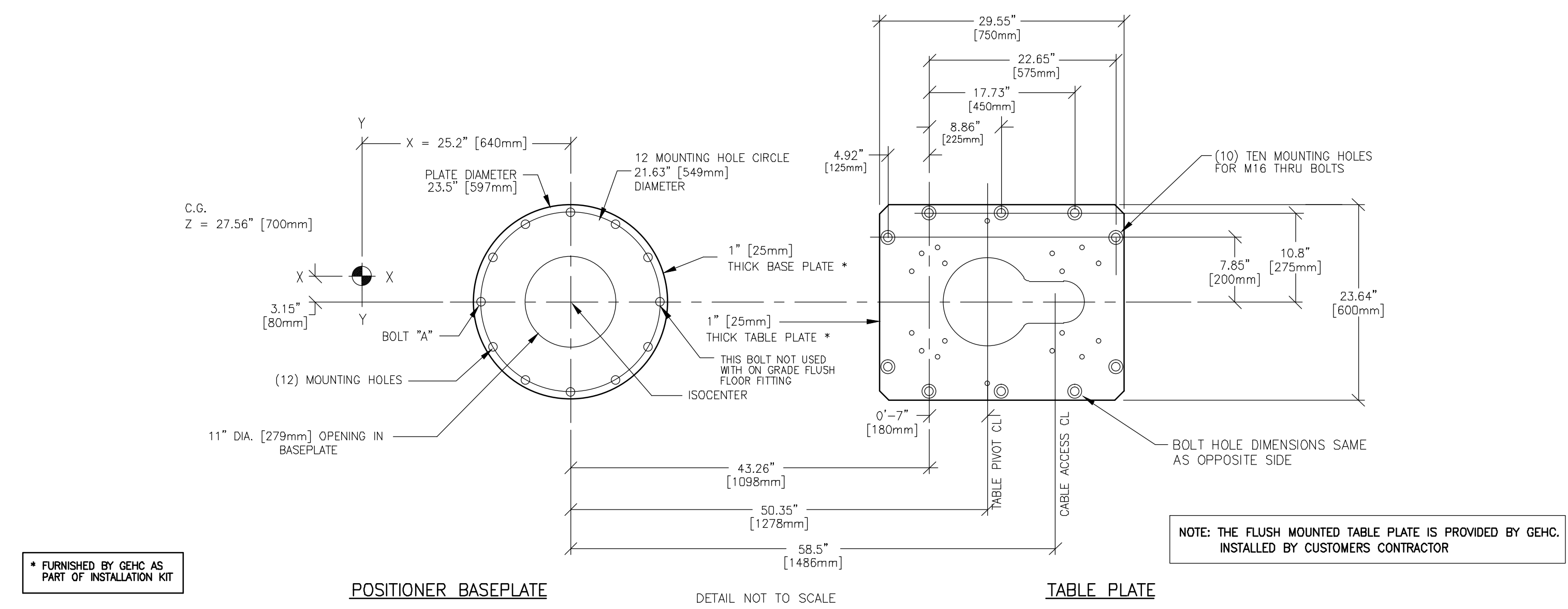
S1

THIS SHEET IS PART OF THE DOCUMENT SET LISTED ON SHEET C1 AND SHOULD NOT BE SEPARATED



FLOOR MOUNTING : INNOVA 2100-3100-4100 (UNITY)/OMEGA V LONG TABLE (WITH IQ TILT TABLE BASEPLATE) INSTALLATION (TEMPLATE NO. 2360133)

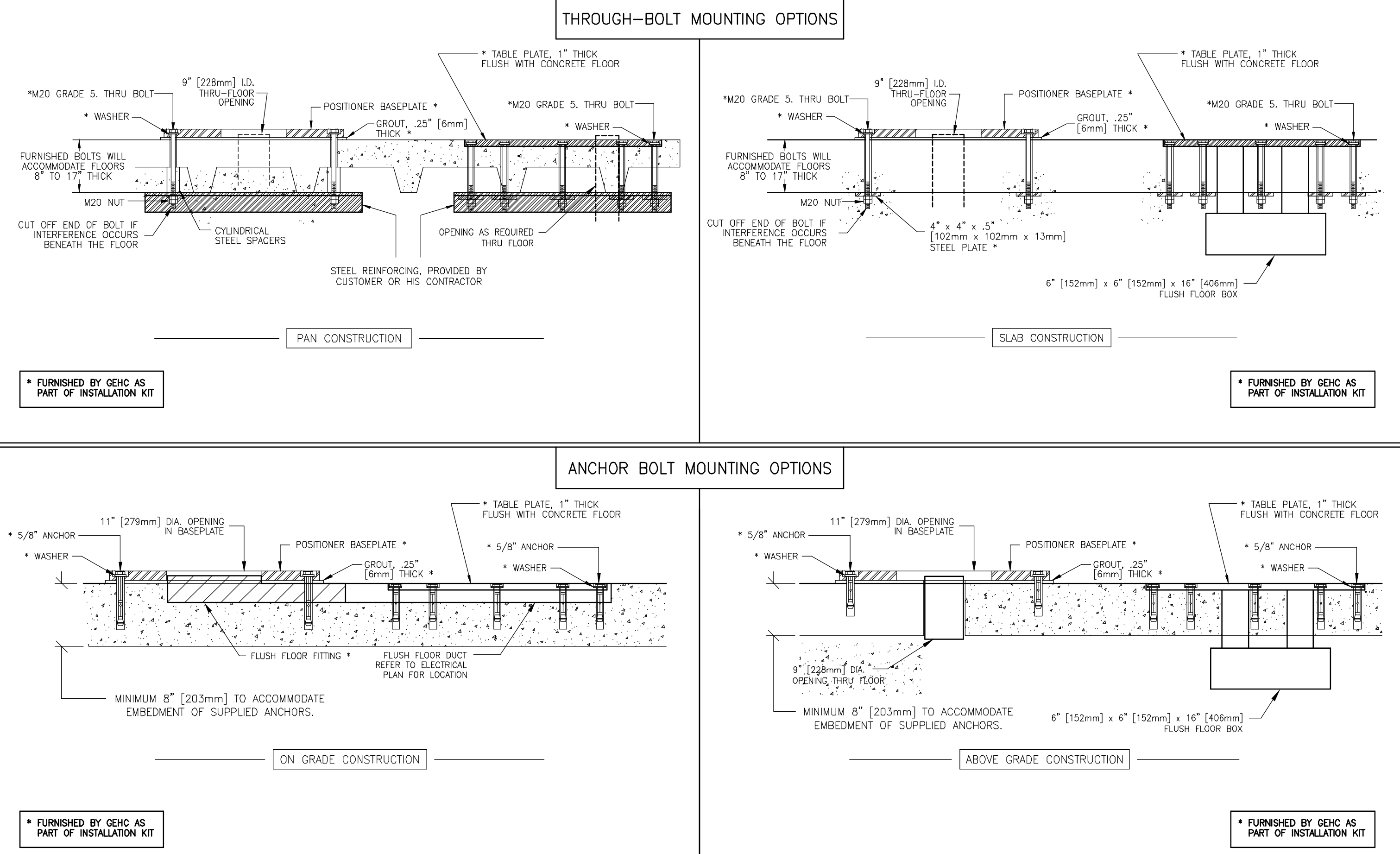
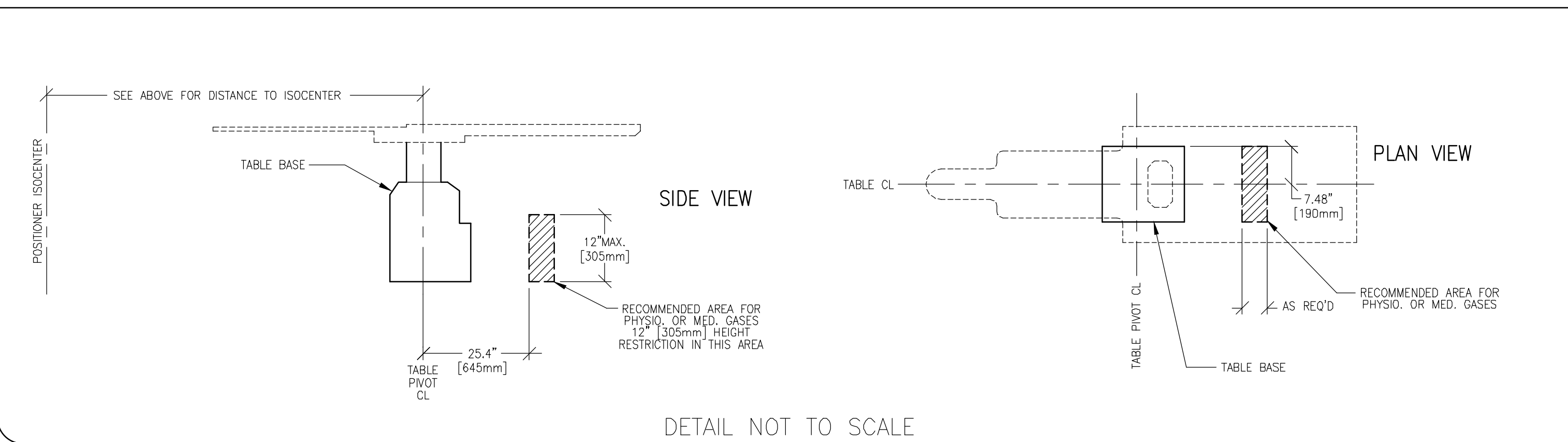
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REV. DATE: 06/04/09



WARNING!! THE RELATIONSHIP BETWEEN THE TABLE BASE AND THE POSITIONER BASEPLATE IS CRITICAL.

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.

MEDICAL GAS FLOOR EXIT LOCATIONS



Customer/Contractor Alert: It is the responsibility of the Customer or their Contractor to drill all anchor/thru-bolting holes for anchoring the positioner and table to the floor. Refer to GEHC document no. *2290880-2-100 for installation preparation and procedures.

NOTE: THRU BOLTING IS HIGHLY PREFERRED FOR THE INSTALLATION OF THE POSITIONER BASEPLATE AND OMEGA 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 HIS 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** SHOULD BE ORDERED. ANCHORS INCLUDED IN KIT SHOULD BE APPROVED BY CUSTOMERS STRUCTURAL ENGINEER.

NOTE: BASEPLATES MUST BE LEVEL WITHIN 1/32" [0.79mm]

POSITIONER BOLT FORCES FOR WORST CASE CONDITIONS		OMEGA TABLE BOLT FORCES FOR WORST CASE CONDITIONS	
LOADS	BOLT TENSION (AT BOLT "A") MAXIMUM TENSION = 881 lbs. [400 Kg]	LOADS	BOLT TENSION MAXIMUM TENSION = 1938 lbs. [880 Kg]/BOLT
HORIZONTAL ACCELERATION = 625 lbs. [284 Kg]	BOLT SHEAR (U-ARM LOCKED) MAXIMUM SHEAR = 120 lbs. [54 Kg]/BOLT	BOLT SHEAR MAXIMUM SHEAR = 407 lbs. [185 Kg]/BOLT	
VERTICAL ACCELERATION = 209 lbs. [95 Kg]			

GE Healthcare

IS Services Design Center

Minneapolis, Wisconsin

SHEET TITLE: STRUCTURAL DETAILS

MODALITY TYPE: INNOVA PLUS

PROJECT TITLE: INTERVENTIONAL CARDIOLOGY

TYPICAL FINAL LAYOUT

PROJECT	REVISION
5-90f	01

DATE: 02.May.11

DRAWN BY: LLM

CHECKED BY: TST

REVISION HISTORY:

SHEET

S2

THIS SHEET IS PART OF THE DOCUMENT SET LISTED ON SHEET C1 AND SHOULD NOT BE SEPARATED

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

ELECTRICAL PLAN

RECOMMENDED CEILING HEIGHT = 9'-6"

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(S) (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

DUCT HATCHING LEGEND

- ▨ ABOVE CEILING DUCT
- ▨ UNDER FLOOR DUCT
- ▨ TRENCH DUCT (FLUSH FLOOR)
- ▨ SURFACE FLOOR DUCT
- ▨ CABLE TRAY
- ABOVE CEILING CONDUIT
- BELOW FLOOR CONDUIT

JUNCTION POINT NOTES

- ALL JUNCTION BOXES, CONDUIT, DUCT, DUCT DIVIDERS, SWITCHES, CIRCUIT BREAKERS, 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 PIGTAILS 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.

JUNCTION POINT DESCRIPTIONS

POINT	DESCRIPTION	QTY.	HARDWARE	DETAIL NO., SHT. E3
C1	ATLAS CABINET	1	32 IN. OF GROMMET MATERIAL FOR 3 X 3 IN. OPENING IN DUCT COVER	ELEC-5 ELEC-6
C2	ATLAS CABINET	1	32 IN. OF GROMMET MATERIAL FOR 3 X 3 IN. OPENING IN DUCT COVER	ELEC-5 ELEC-6
CHLR	RECIRCULATING WATER CHILLER	2	12 IN. OF GROMMET MATERIAL FOR A 3 X 3 IN. OPENING IN DUCT COVER	ELEC-5 ELEC-6
DC	DETECTOR CHILLER	1	12 IN. OF GROMMET MATERIAL FOR A 3 X 3 IN. OPENING IN DUCT COVER	ELEC-5 ELEC-6
IE	INJECTOR ELECTRONICS	1	12 IN. OF GROMMET MATERIAL FOR A 3 X 3 IN. OPENING IN DUCT COVER	ELEC-5 ELEC-6
IEC	INJECTOR CONTROL	1	12 IN. OF GROMMET MATERIAL FOR A 3 X 3 IN. OPENING IN DUCT COVER	ELEC-5 ELEC-6
IH	INJECTOR HEAD	1	EXTERNALLY CONNECTED AT TABLE BASE	
IVUS	IVUS WORKSTATION	1	COVERPLATE (SHARED BOX W/MAC LAB)	ELEC-1 ELEC-13
LC1	INNOVA LC	1	COVERPLATE (SHARED BOX W/MAC LAB)	ELEC-100
LMP	SURGICAL LAMP	1	COVERPLATE (SHARED BOX W/MAC LAB)	ELEC-8
LUS	OMEGA TABLE	1	COVERPLATE (SHARED BOX W/MAC LAB)	ELEC-48 ELEC-134
PC	WORKSTATION	1	COVERPLATE (SHARED BOX WITH IVUS)	ELEC-1 ELEC-13
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
RML1	ROOM LIGHTS AVAILABLE FROM GE, CALL: 800-558-5102	1	COVERPLATE (SHARED BOX W/MAC LAB)	ELEC-157
TRAM	REMOTE ACQUISITION UNIT	1	COVERPLATE (SHARED BOX W/MAC LAB)	ELEC-13
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 3 X 3 IN. OPENING IN DUCT COVER	ELEC-5 ELEC-6
WBBC	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	COVERPLATE (SHARED BOX W/MAC LAB)	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	COVERPLATE (SHARED BOX W/MAC LAB)	ELEC-8
XRL1	WARNING LIGHT	1	COVERPLATE (SHARED BOX W/MAC LAB)	ELEC-157
XRLC	WARNING LIGHT & ROOM LIGHT CONTROL OR EQUIVALENT MAX 24V CONTROLLER	1	E4502SS WARNING LIGHT & ROOM LIGHT CONTROL OR EQUIVALENT MAX 24V CONTROLLER	ELEC-157

CONTACT YOUR LOCAL RADIO VISION 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 CABLES BE USED EITHER BY COLORED WIRES OR COLORED TAPE.

CONTRACTOR SUPPLIED AND INSTALLED WIRING

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

WIRE RUN, FROM - TO	QUANTITY, WIRE SIZE/COLOR
<22> 3 PHASE > PDB1	3-BLACK, 1-WHITE, 1-GREEN (REFER TO FEEDER TABLE)
<21> PDB1 > PDB	3-BLACK, 1-WHITE, 1-GREEN (REFER TO FEEDER TABLE)
<19> PDB > C1 (JEDI)	3-1/0 BLACK, 1-1/0 GREEN
<19> PDB > C1 (PDU)	2-ND. 10 BLACK, 1-ND. 10 GREEN
<19> PDB > C2	3-ND. 8 BLACK, 1-ND. 8 GREEN
<19> PDB > CHLR	3-ND. 10 BLACK, 1-ND. 10 GREEN
<15> PDB > UPS	6-ND. 6 BLACK, 1-ND. 6 WHITE, 2-ND. 6 GREEN
<17> PDB > RDS1	2-ND. 14 BLACK, 2-ND. 14 WHITE, 1-ND. 14 GREEN
<18> PDB > RDS2	2-ND. 14 BLACK, 2-ND. 14 WHITE, 1-ND. 14 GREEN
<5> RML1 > XRLC	1-ND. 14 BLACK, 1-ND. 14 WHITE, 1-ND. 14 GREEN
<7> XRLC > 1 PHASE	1-ND. 14 BLACK, 1-ND. 14 WHITE, 1-ND. 14 GREEN
<6> XRLC > C2	2-ND. 14 BLACK, 2-ND. 14 WHITE, 1-ND. 14 GREEN
<4> XRL1 > XRLC	1-ND. 14 BLACK, 1-ND. 14 WHITE, 1-ND. 14 GREEN
<11> 120-V > LMP	1-BLACK, 1-WHITE, 1-GREEN - <SIZE AS REQUIRED>

PIM R1

PROJECT 5-90f REVISION 01

DATE: 02.May.11
DRAWN BY: LLM
CHECKED BY: TST

REVISION HISTORY:

SHEET

E1

478-101

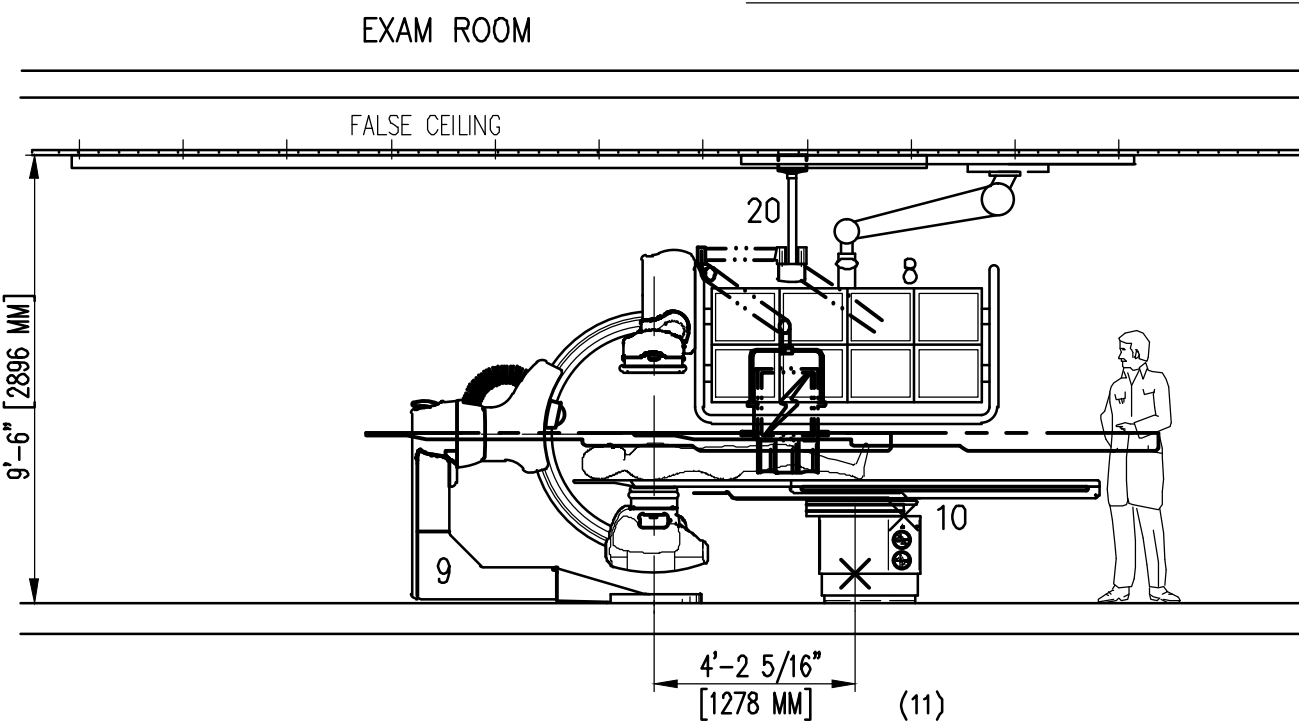
GE Healthcare
IS Services Design Center
Minneapolis, WisconsinSHEET TITLE: ELECTRICAL LAYOUT
MODALITY TYPE: INNOVA PLUSINTERVENTIONAL
CARDIOLOGY
TYPICAL FINAL LAYOUT

PROJECT TITLE:

THIS SHEET IS PART OF THE DOCUMENT SET LISTED ON SHEET C1 AND SHOULD NOT BE SEPARATED

INTERCONNECT DIAGRAM

TYPICAL VIEWS



EQUIPMENT DESCRIPTIONS

ITEM	DESCRIPTION	WEIGHT (lb)	HEAT DISSIPATION (btu)	DRAWING DESIGNATOR
1	XR BUZZER	2		XRB
2	ATLAS CABINET C2	659	1825	C2
3	ATLAS CABINET C1	1115	3389	C1
4	DETECTOR CONDITIONER	33	706	DC
5	WATER CHILLER	449	18716	CHLR
6	20kva UPS CABINET	1170	4061	UPS
7	UPS INTERFACE BOX			UIB
8	TV CEILING SUSPENSION (8 MONITOR)	557	1228	WSM1
9	INNOVA LC POSITIONER	1653	2416	LC1
10	OMEGA V LONG TABLE	1750	614	LU5
11	INNOVA VCIM HTH DL KEYBOARD CONSOLE	22	204	--
12	VCIM OPERATOR CONSOLE	22	546	WBC1
13	ROOM LIGHTS			RML1
14	XRAY WARNING LAMP			XRL1
15	XRAY WARNING LAMP CONTROLLER			XRLC
16	RDS1 PUSHBUTTON			RDS1
17	RDS2 PUSHBUTTON			RDS2
18	PDB MAIN DISCONNECT	326	1532	PDB
19	LOTO DISCONNECT BREAKER			PDB1

OPTIONS

ITEM	DESCRIPTION	WEIGHT (lb)	HEAT DISSIPATION (btu)	DRAWING DESIGNATOR
21	BOLUS CHASE HANDSWITCH	2		WBBC
22	ADVANTAGE WINDOWS WORKSTATION	81	1201	AW
23	IVUS VOLCANO CONSOLE	68	1631	IVUS
24	IVUS VOLCANO COLOR PRINTER	X	X	--
25	INJECTOR HEAD	15		IH
26	INJECTOR ELECTRONICS	37	320	IE
27	REMOTE CONTROL FOR INJECTOR	4		IEC
28	LAMP (RADIATION SHIELD TRACK)	143		LMP
29	CARROT MONITOR PROCESSOR	145	6143	PROC
30	CARROT LCD MONITOR	546	1706	CART
31	MACH 3 TRANSFORMER	70	X	M3T
32	MACLAB PHYSIO. MONITORING	566	2935	PC
33	PRINTER (PHYSIO.)	X	309	--
34	TRAM (PHYSIO.)	8	X	TRAM
35	REMOTE OPERATING TERMINAL (PHYSIO.)	46	682	RMOT
36	MICRO PACE (PHYSIO.)	X	X	MP
37	SKYTRON LIGHTING UNIT	50	341	SL
38	150 KVA UPS	2160	31802	UPS
39	UPS BATTERY CABINET	3529	X	--
40	MAINTENANCE BYPASS PANEL	350	X	MBP

INNOVA SYSTEMS

REV. DATE: 01/04/07

VOLTAGE PRIMARY SOURCE IS REQUIRED FOR ALL INSTALLATIONS.
RANGE OF LINE VOLTAGES
NOMINAL LINE VOLTAGE OF 360 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
INPUT
VOLTAGES/
CURRENT
DEMAND

NOMINAL VOLTAGE	NORMAL RANGE ±10 PERCENT	CURRENT (AMPS)	
		MAX. MOMENTARY	CONTINUOUS
360	324-396	304	32
380	342-418	289	31
400	360-440	274	29
420	378-462	264	28
440	396-484	249	26
460	414-506	238	25
480	432-528	228	24

ALL CALCULATIONS BASED UPON NOMINAL VOLTAGE

NOTE 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 0 TIMES PER HOUR.

POWER
DEMAND

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

TABLE B
MAXIMUM
MOMENTARY
POWER
DEMAND.

DEMAND	ADVANTX 100
kva * POWER FACTOR AT	171 0.9
mA	1250
kVp	80

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

DISTRI-
BUTION
TRANS-
FORMER
FOR A SINGLE UNIT INSTALLATION, THE MINIMUM TRANSFORMER SIZE
IS 225 KVA.

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.

DIAGRAM KEY

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

SHEET TITLE: ELECTRICAL SPECIFICATIONS

MODALITY TYPE: INNOVA PLUS

THIS PLAN IS SUBMITTED TO SUBMIT 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 LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE AND TO BE USED FOR
ACTUAL CONSTRUCTION PURPOSES. HOWEVER, THE COMPANY CANNOT ACCEPT
RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:

INTERVENTIONAL
CARDIOLOGY
TYPICAL FINAL LAYOUT

PROJECT REVISION
5-90f 01

DATE: 02.May.11
DRAWN BY: LLM
CHECKED BY: TST

REVISION HISTORY:

REVISION HISTORY:

SHEET
E2

ELECTRICAL DETAIL
BOX WITH COVERPLATE AND NETWORK JACK

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

DETAIL NOT TO SCALE

ELECTRICAL DETAIL
HORIZONTAL WALL DUCT (TYPICAL)

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

DUCT WIDTH	MINIMUM DIVIDERS REQUIRED
24" (610mm)	2
18" (457mm)	2
10" (254mm)	2
6" (152mm)	1
4" (102mm)	1

DETAIL NOT TO SCALE

ELECTRICAL DETAIL
VERTICAL WALL DUCT (TYPICAL)

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

DUCT WIDTH	MINIMUM DIVIDERS REQUIRED
24" (610mm)	2
18" (457mm)	2
10" (254mm)	2
6" (152mm)	1
4" (102mm)	1

DETAIL NOT TO SCALE

ELECTRICAL DETAIL
HORIZONTAL WALL DUCT (TYPICAL)

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

DUCT WIDTH	MINIMUM DIVIDERS REQUIRED
24" (610mm)	2
18" (457mm)	2
10" (254mm)	2
6" (152mm)	1
4" (102mm)	1

DETAIL NOT TO SCALE

ELECTRICAL DETAIL
INSITE CONNECTION (TYPICAL)

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

ONE OF THE FOLLOWING TWO SELECTIONS MUST BE INSTALLED AT THE LOCATION SHOWN ON THE ELECTRICAL PLAN (SHEET E1) FOR GE INSITE CONNECTION BASED UPON SYSTEM CONFIGURATION.

A) ONE INTERNET ACCESSIBLE VIRTUAL PRIVATE NETWORK (VPN) CONNECTION WITH A STATIC IP ADDRESS, AND ONE TELEPHONE LINE - DEDICATED-DIRECT-DIALING, VOICE GRADE.

OR

B) TWO TELEPHONE LINES - ONE DEDICATED DIRECT-DISTANCE-DIALING, VOICE GRADE AND ONE A DEDICATED DATA LINE.

ALL ITEMS ILLUSTRATED ARE TO BE FURNISHED AND INSTALLED BY CUSTOMER OR THEIR CONTRACTOR.

DETAIL NOT TO SCALE

ELECTRICAL DETAIL
FLOOR BOX WITH NIPPLES (TYPICAL)

ELEC-13
REV. DATE: 09/30/94

DETAIL NOT TO SCALE

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
BOX WITH COVERPLATE (TYPICAL)

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

DETAIL NOT TO SCALE

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

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

DETAIL NOT TO SCALE

ELECTRICAL DETAIL
EMERGENCY OFF BUTTON

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

DETAIL NOT TO SCALE

ELECTRICAL DETAIL
TABLE INTERCONNECTION - BOX BELOW FLOOR

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

DETAIL NOT TO SCALE

ELECTRICAL DETAIL
TABLE INTERCONNECT DETAIL, UNDER FLOOR

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

NOTE: PIPE, JUNCTION BOX AND DUCT or CONDUIT ARE TO BE SUPPLIED AND INSTALLED BY CUSTOMER or CUSTOMER'S CONTRACTOR.

DETAIL NOT TO SCALE

GE Healthcare

IS Services Design Center

Minneapolis, Wisconsin

SHEET TITLE: ELECTRICAL DETAILS

MODALITY TYPE: INNOVA PLUS

THIS PLAN IS SUBMITTED TO SUBMIT 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 IN PREVIOUS EDITIONS OF THIS PLAN. IT IS NOT ALLOWED TO BE USED FOR ACTUAL CONSTRUCTION PURPOSES. OTHERWISE, THE COMPANY CANNOT ACCEPT RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:

INTERVENTIONAL CARDIOLOGY

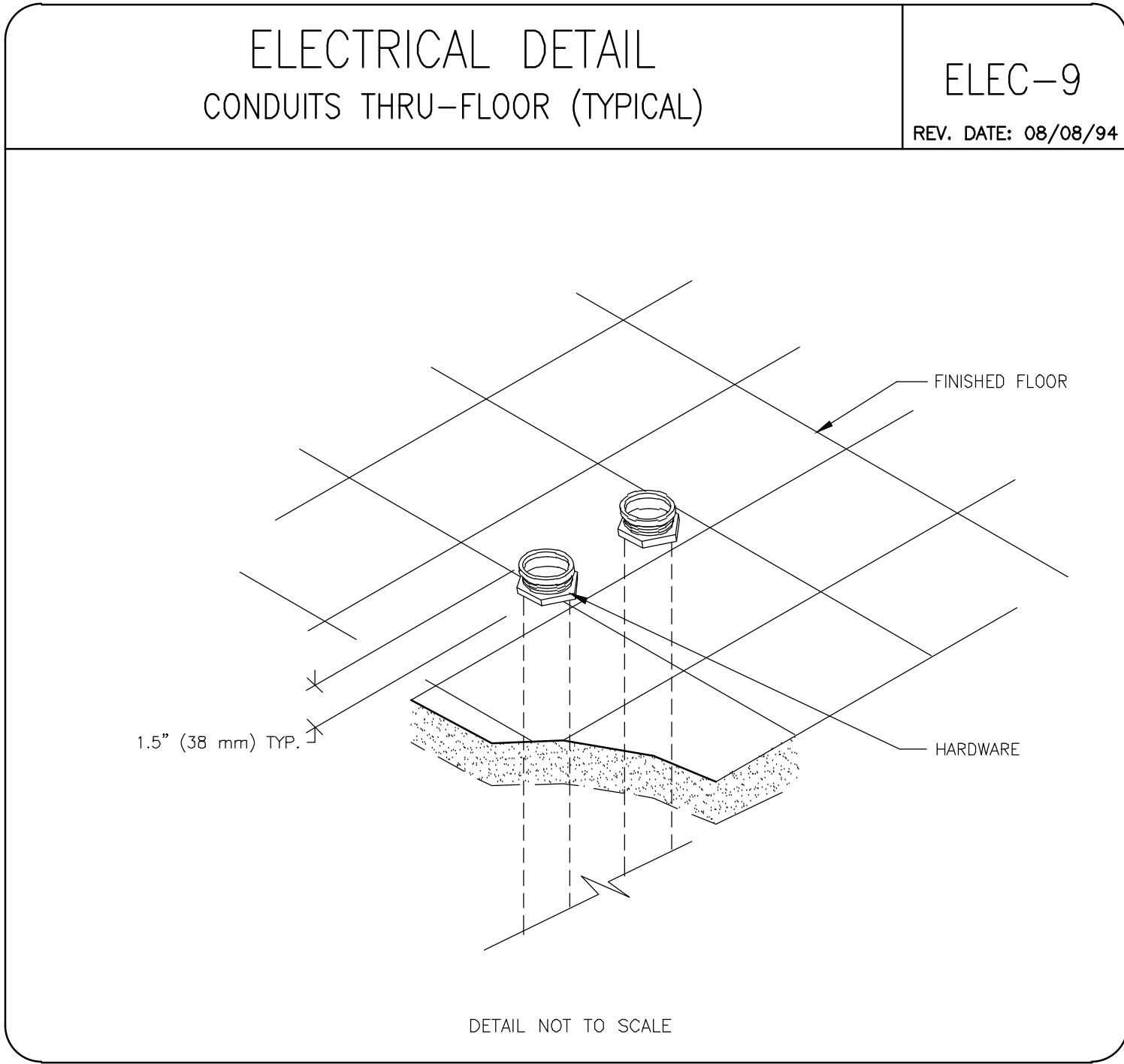
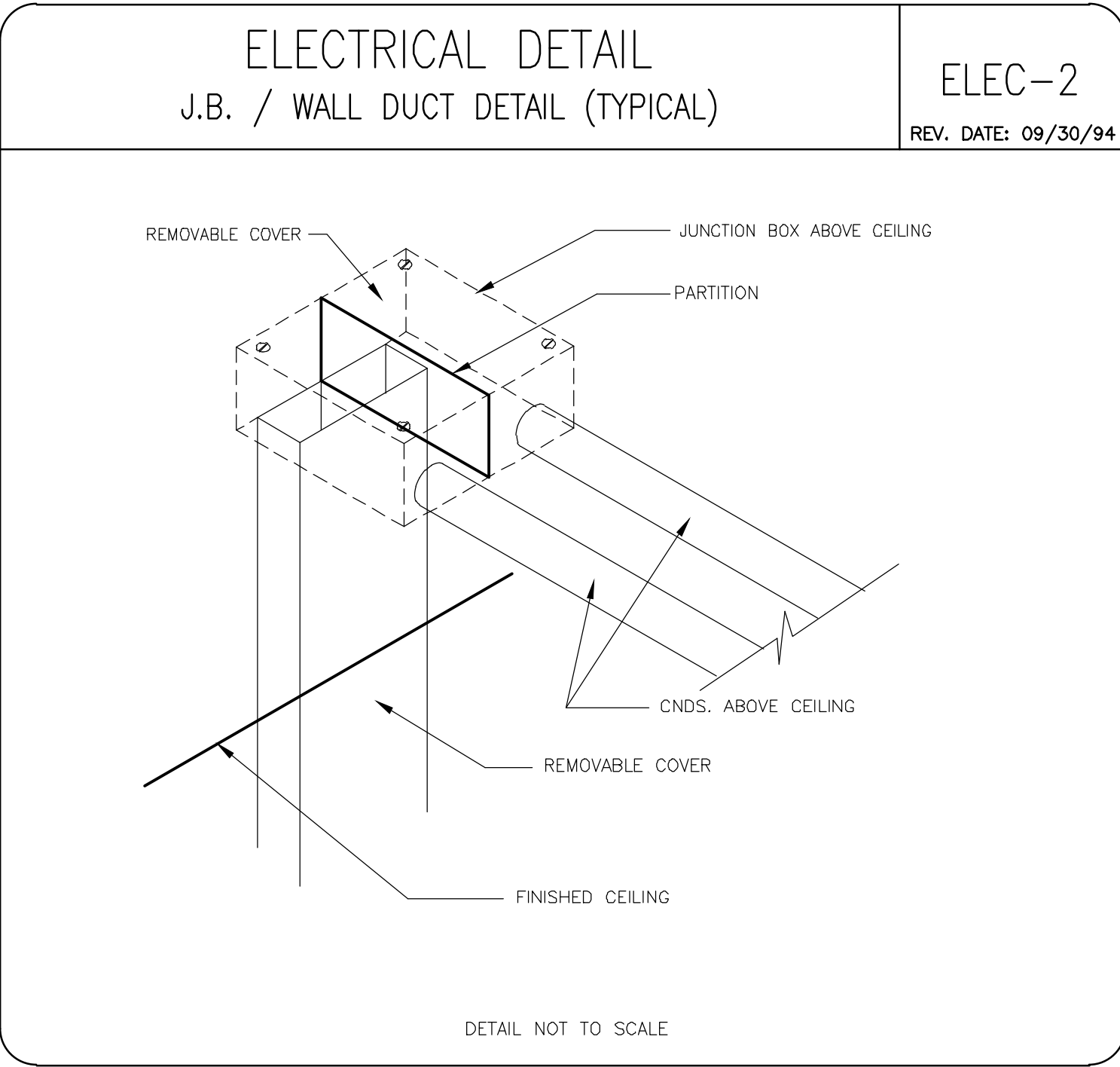
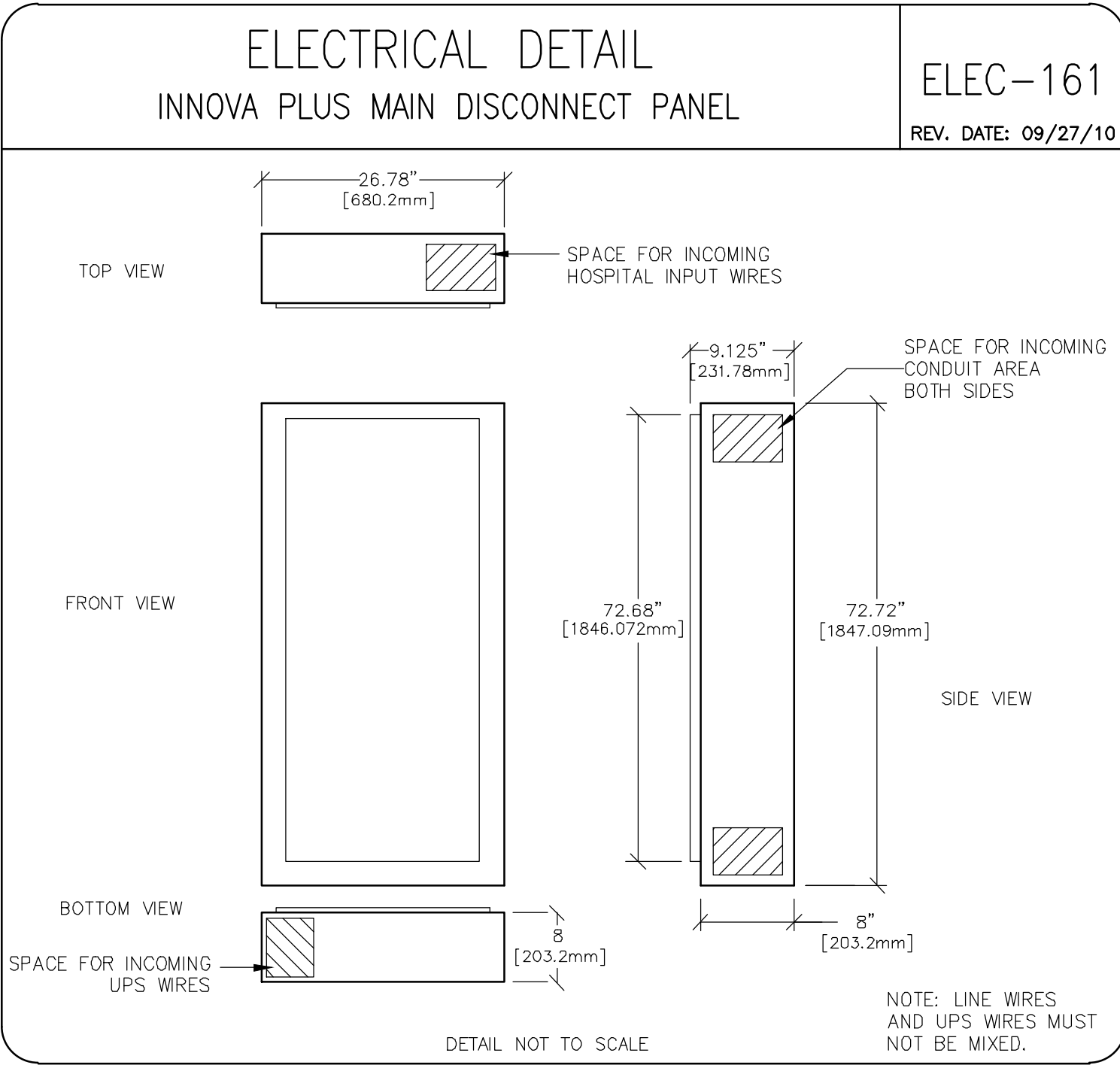
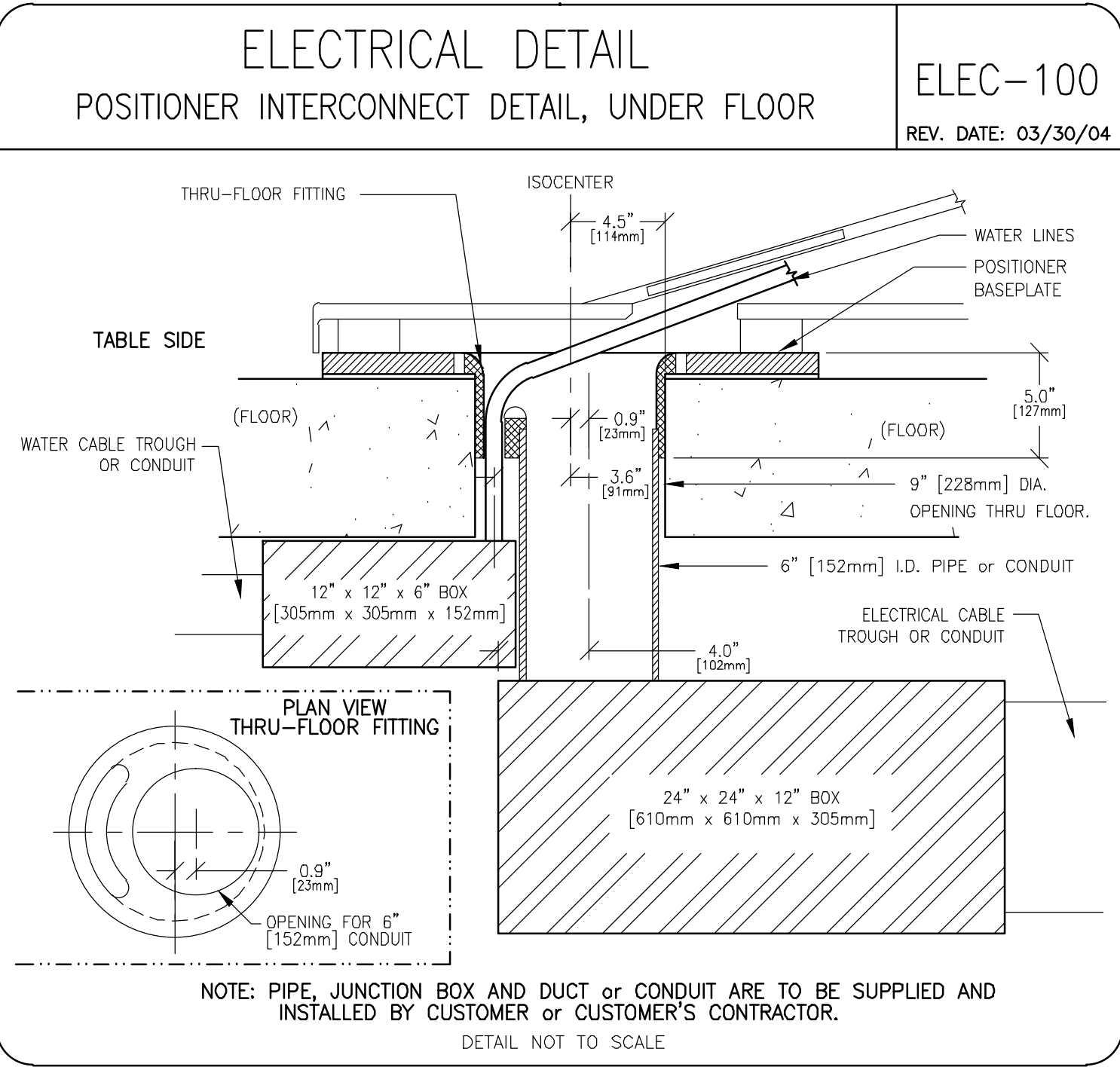
TYPICAL FINAL LAYOUT

PROJECT	REVISION
5-90f	01
DATE:	02.May.11
DRAWN BY:	LLM
CHECKED BY:	TST

REVISION HISTORY:

SHEET

E3





IS Services Design Center
Milwaukee, Wisconsin

GE Healthcare

SHEET TITLE: ELECTRICAL DETAILS
MODALITY TYPE: INNOVA PLUS

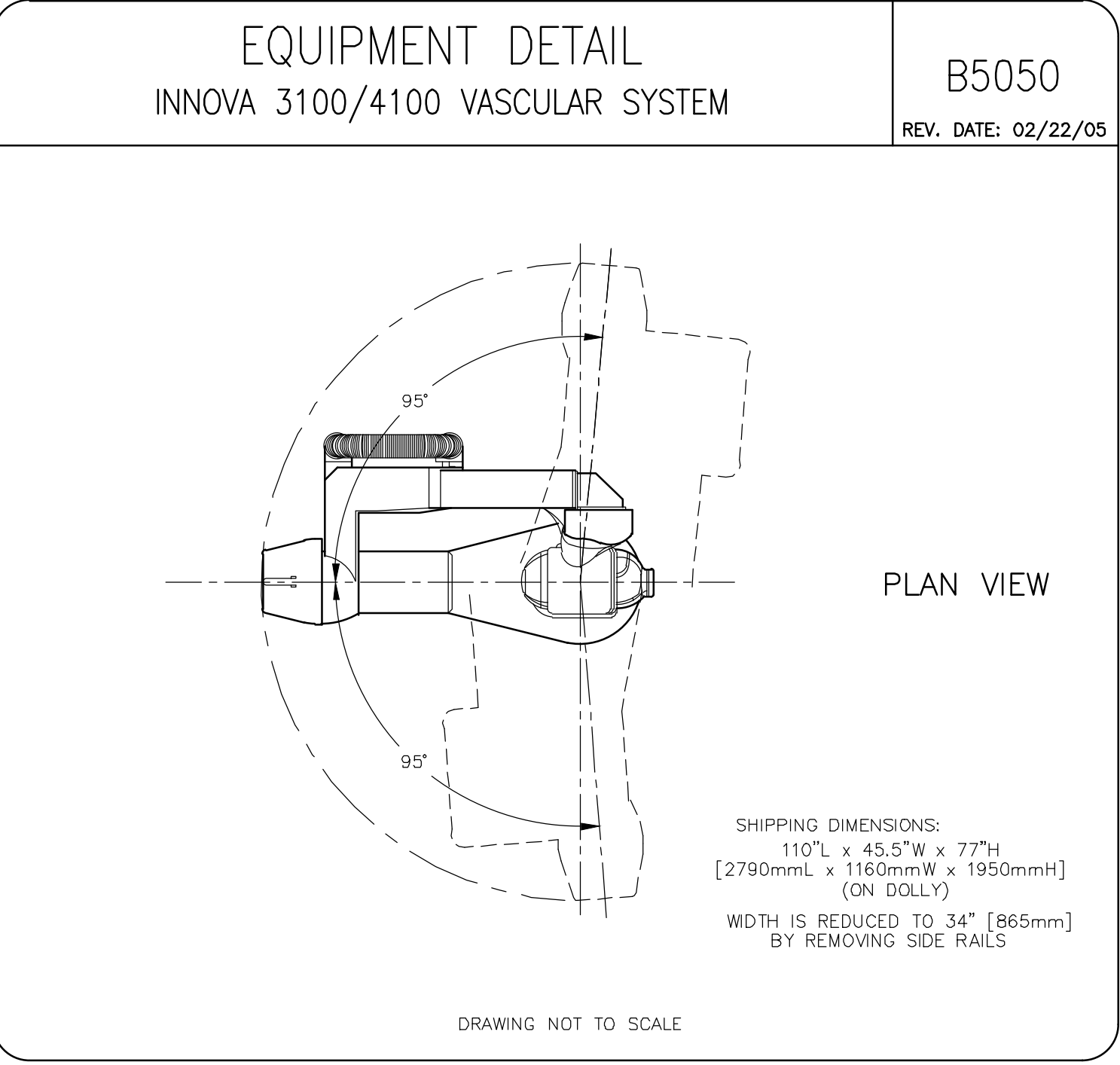
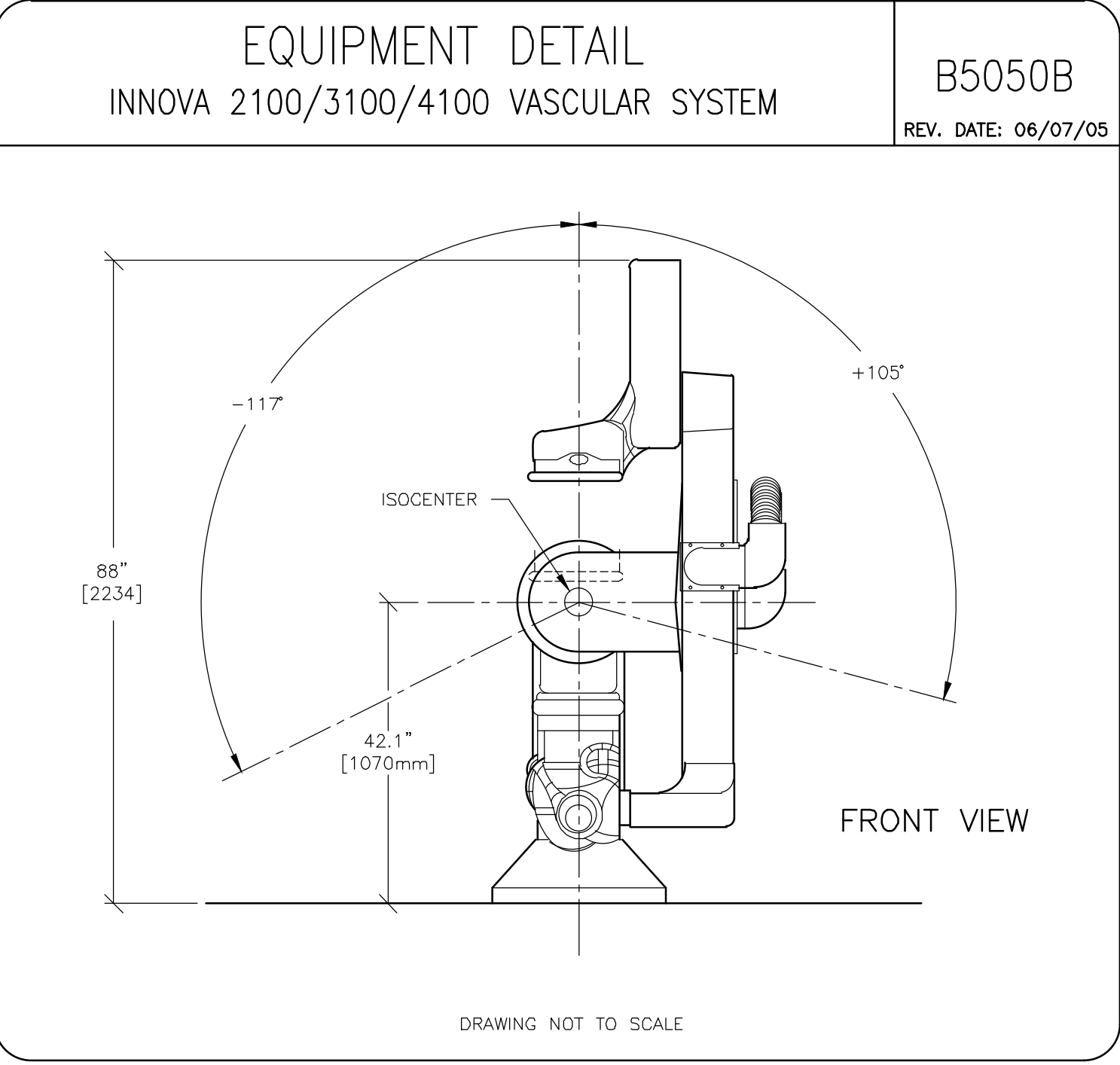
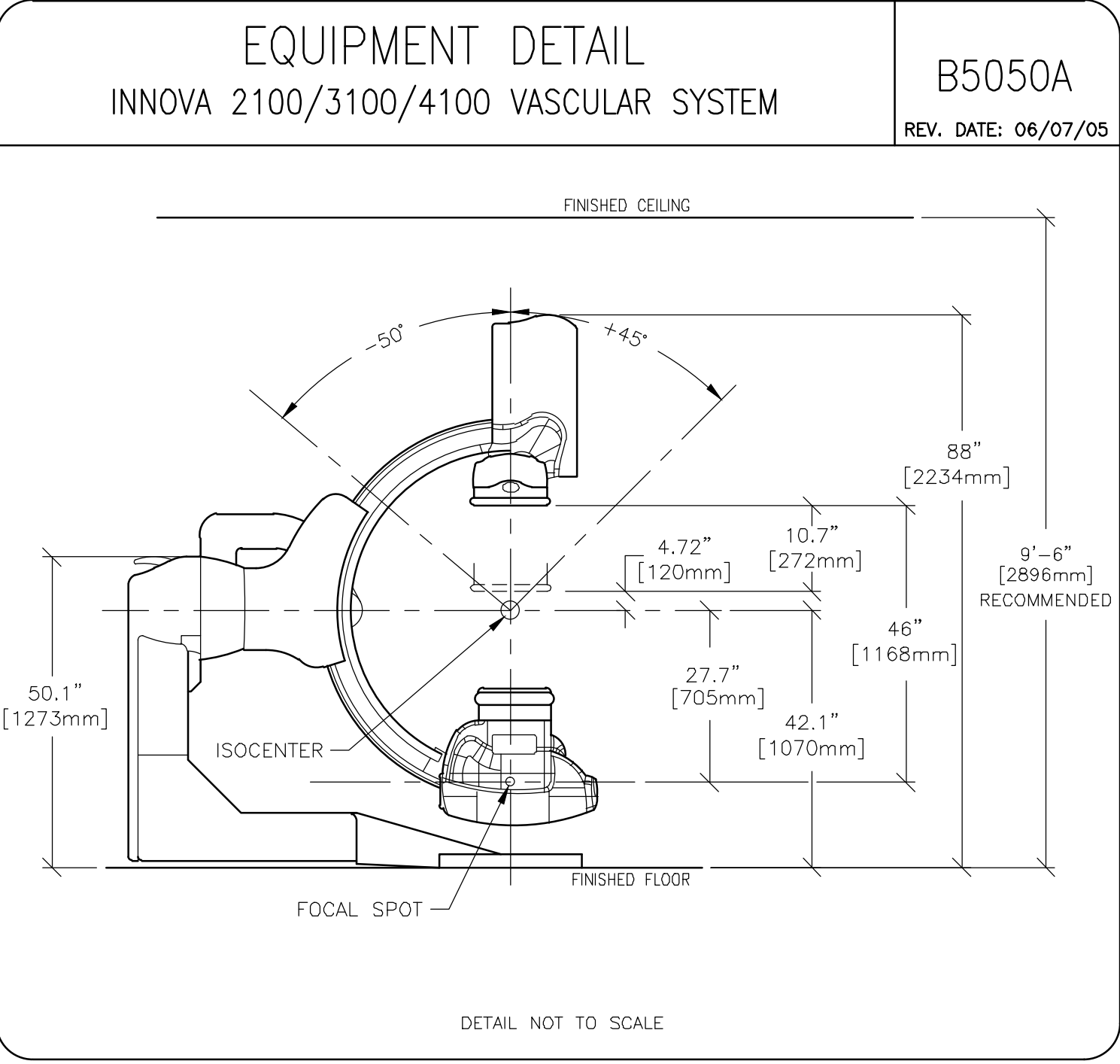
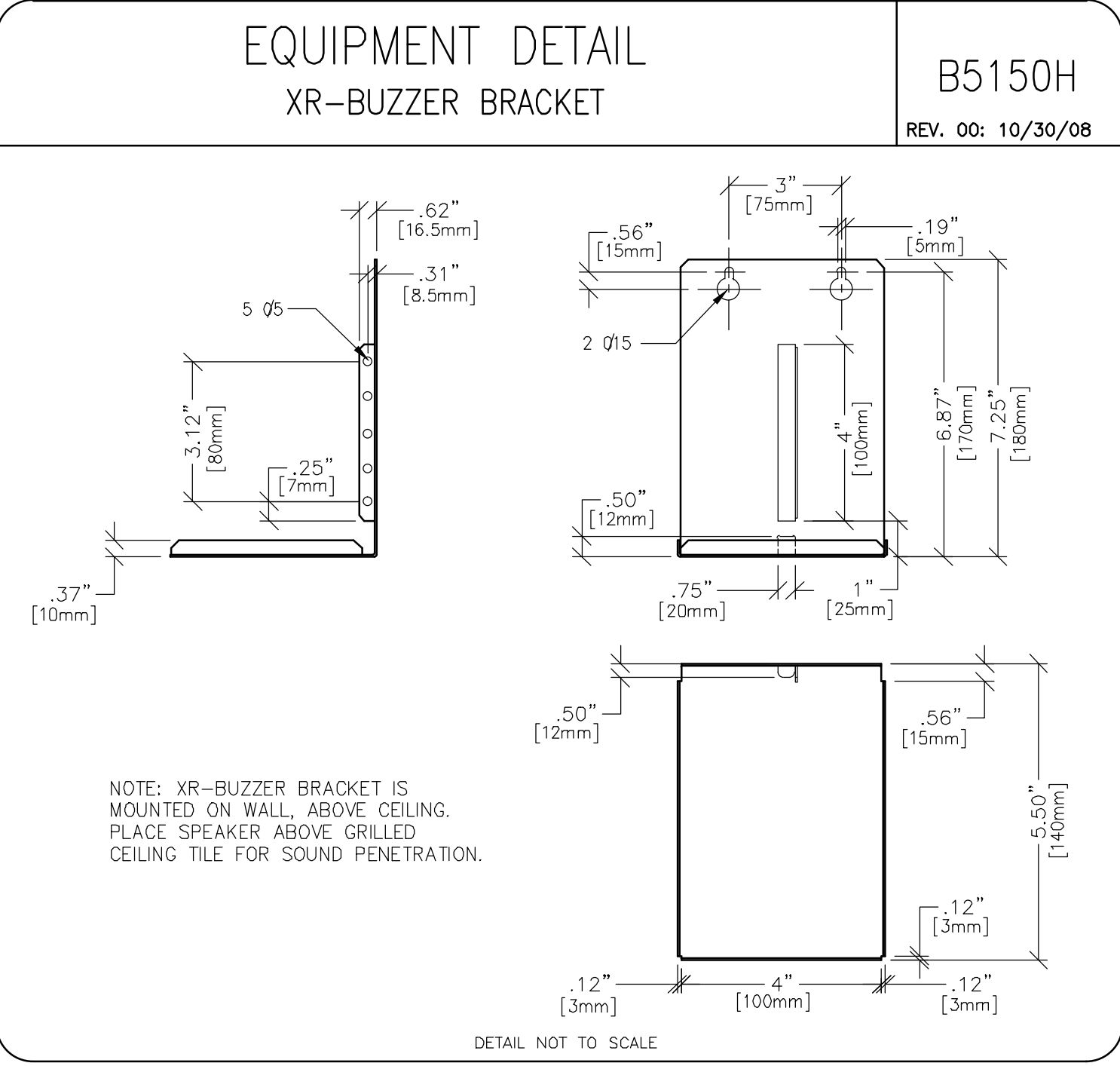
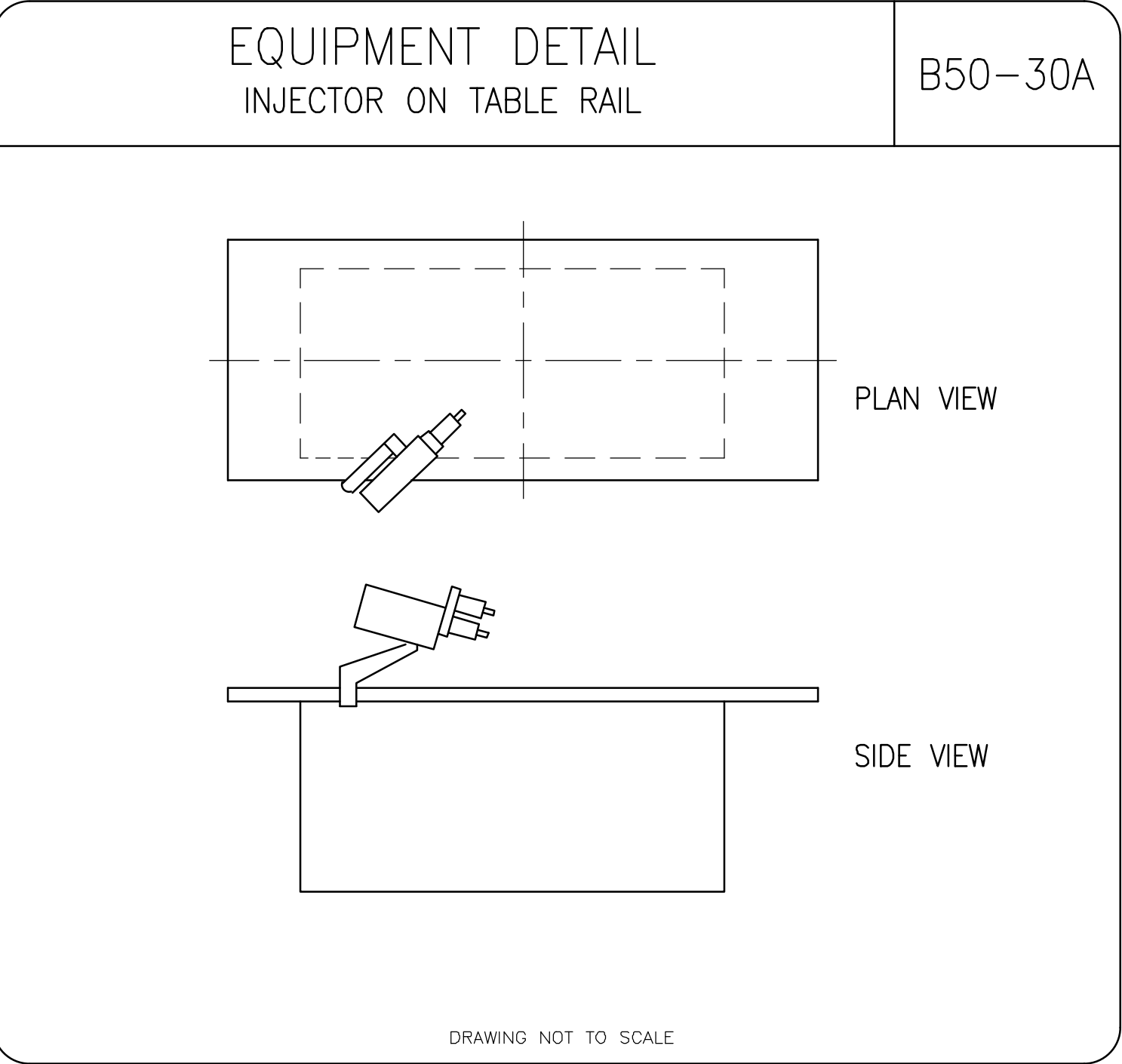
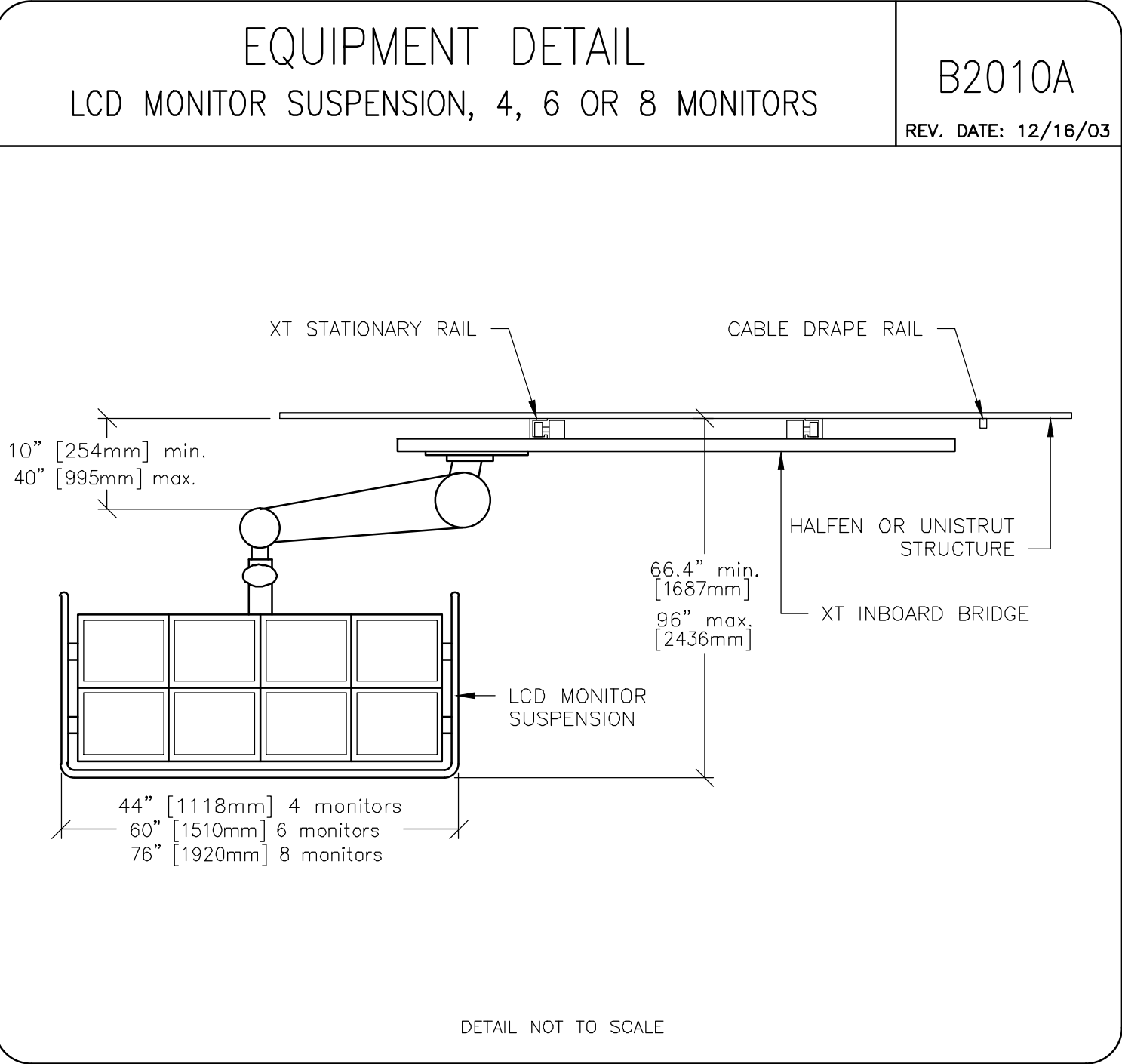
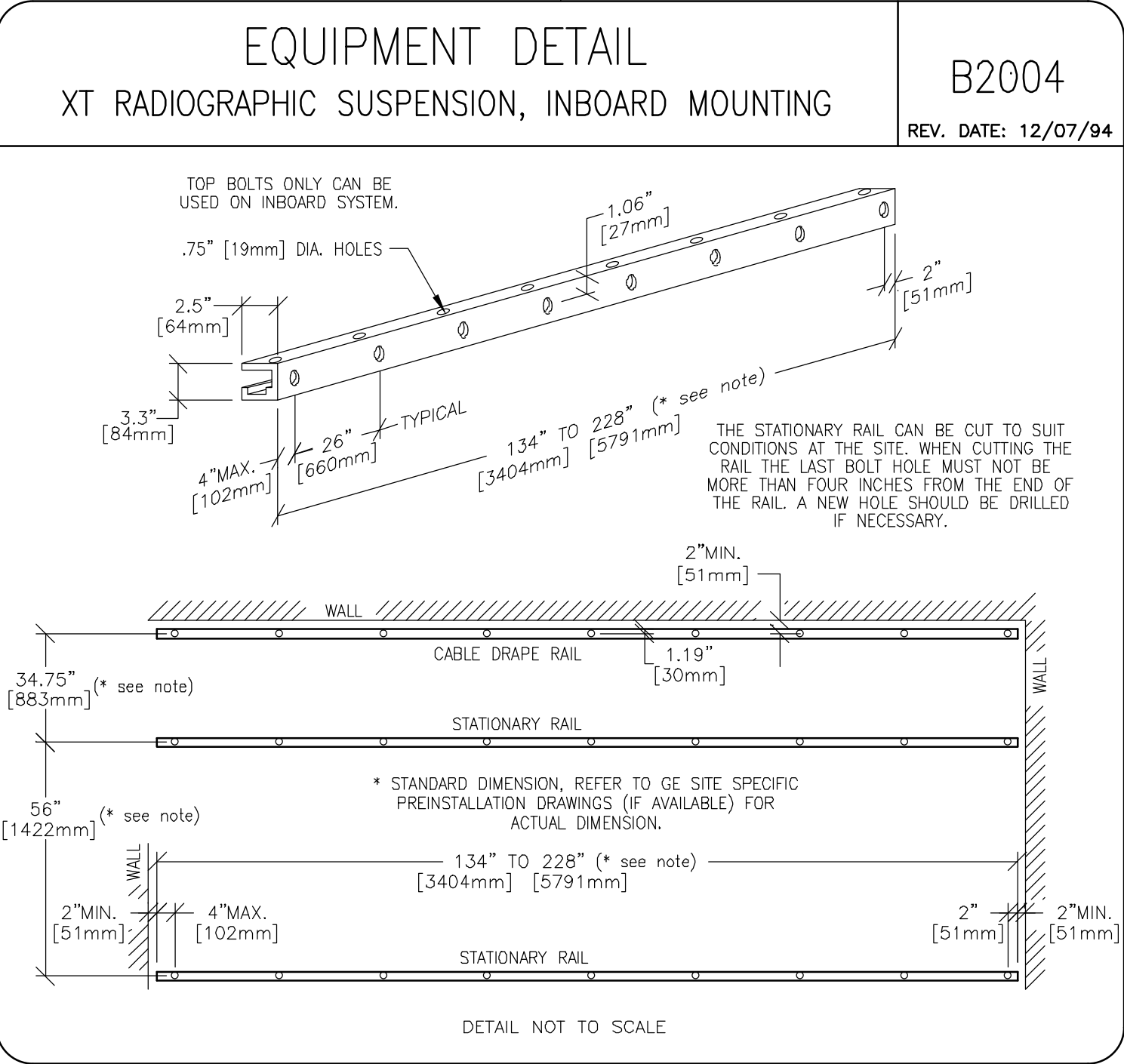
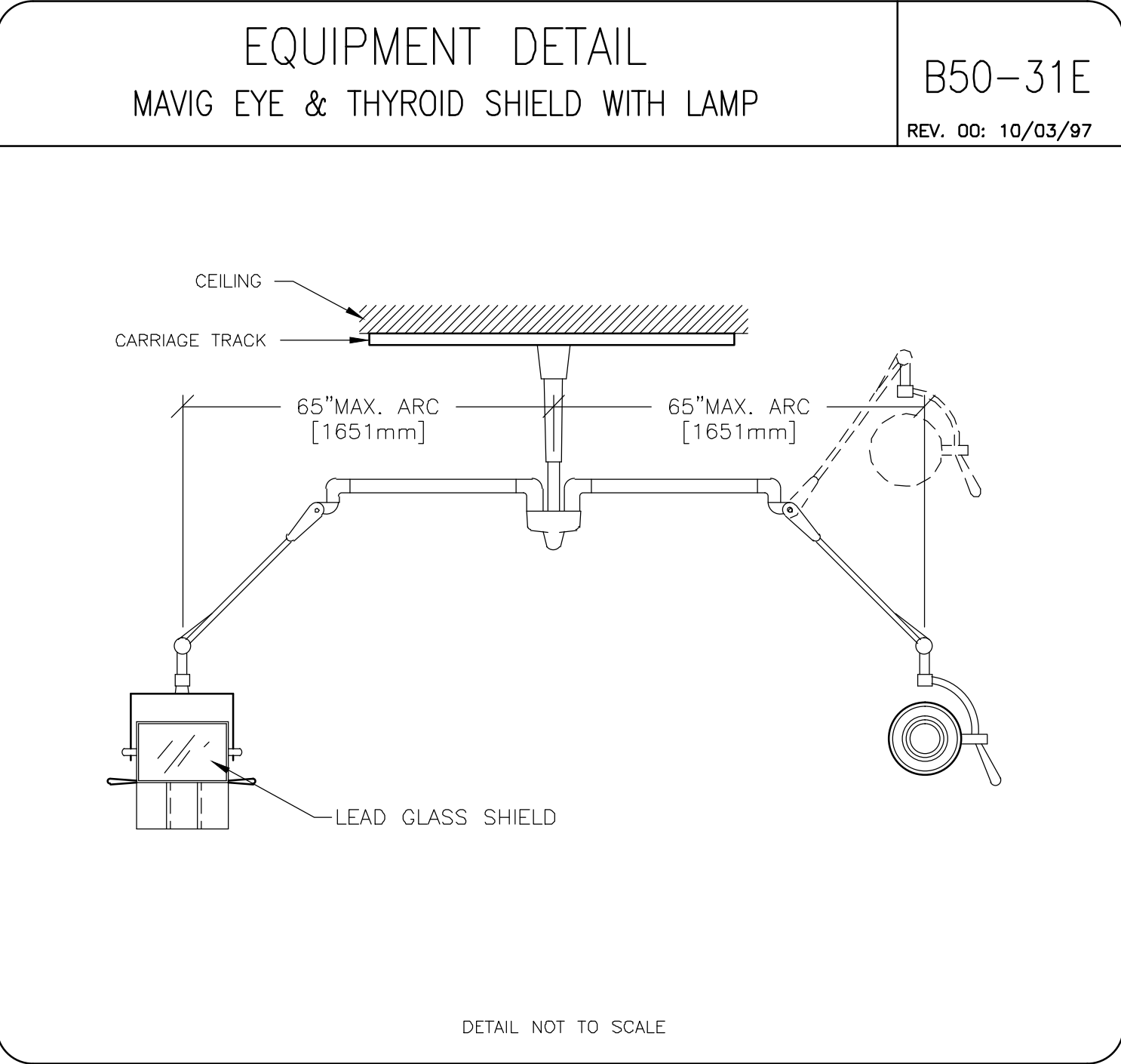
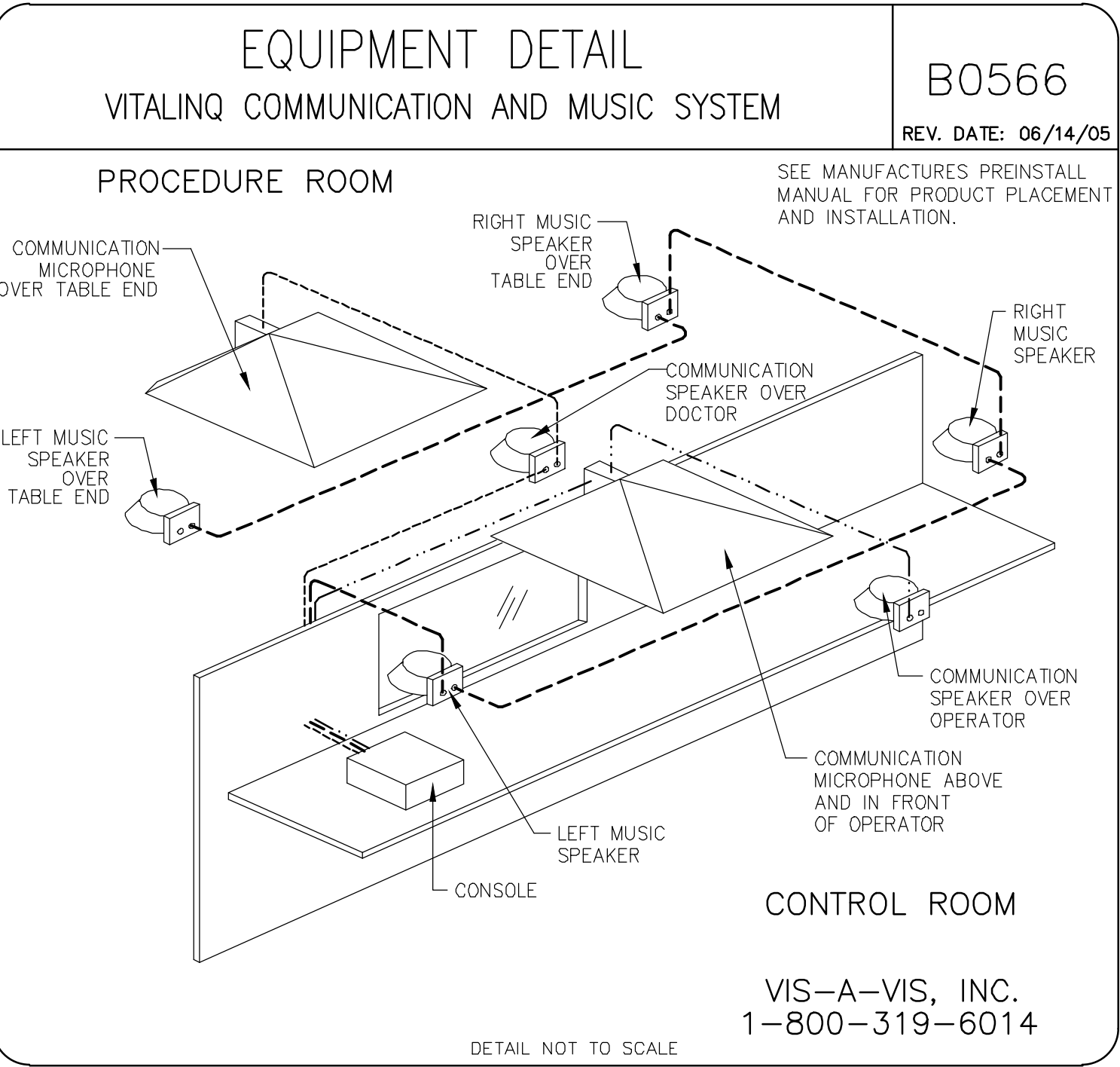
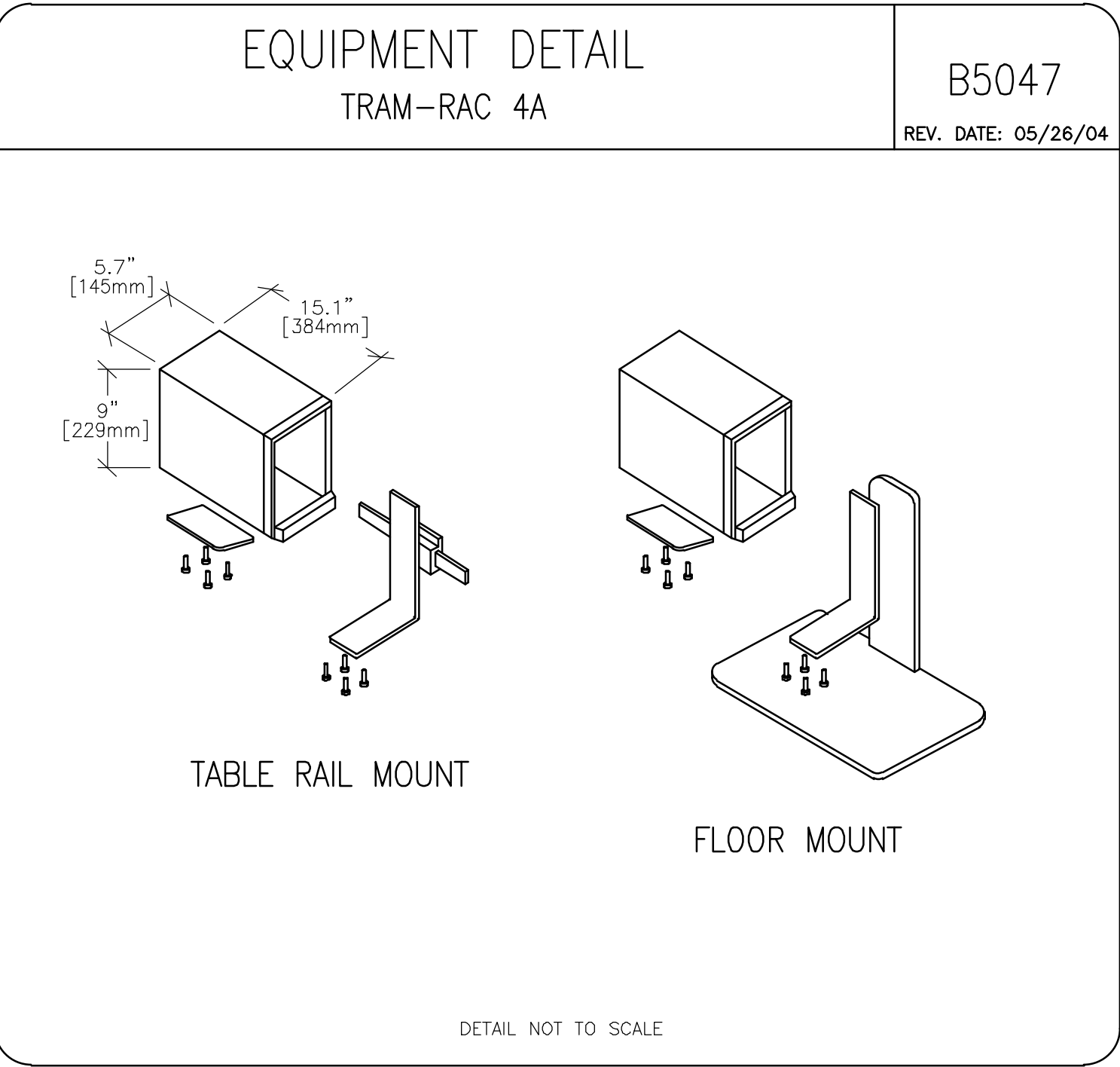
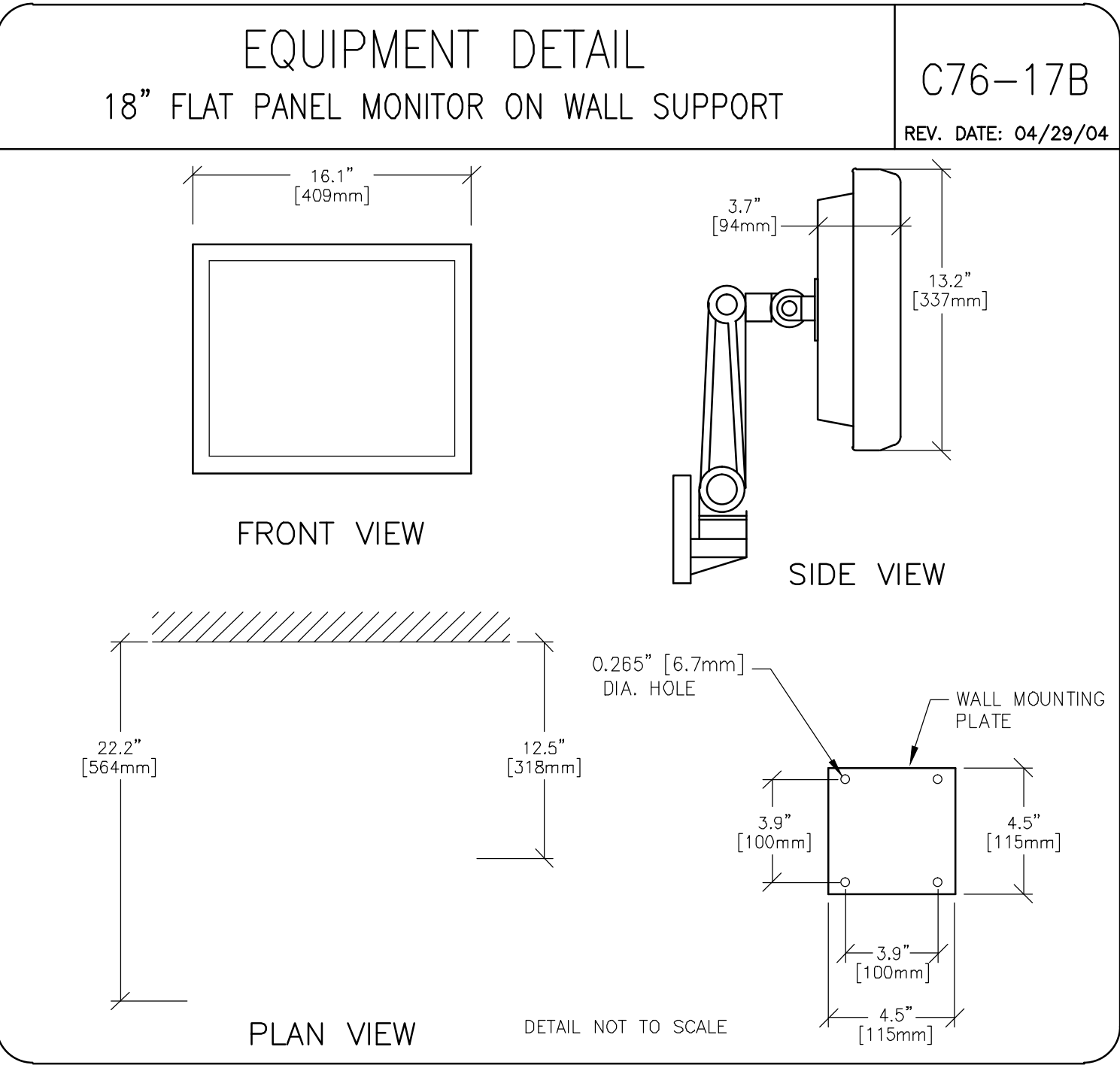
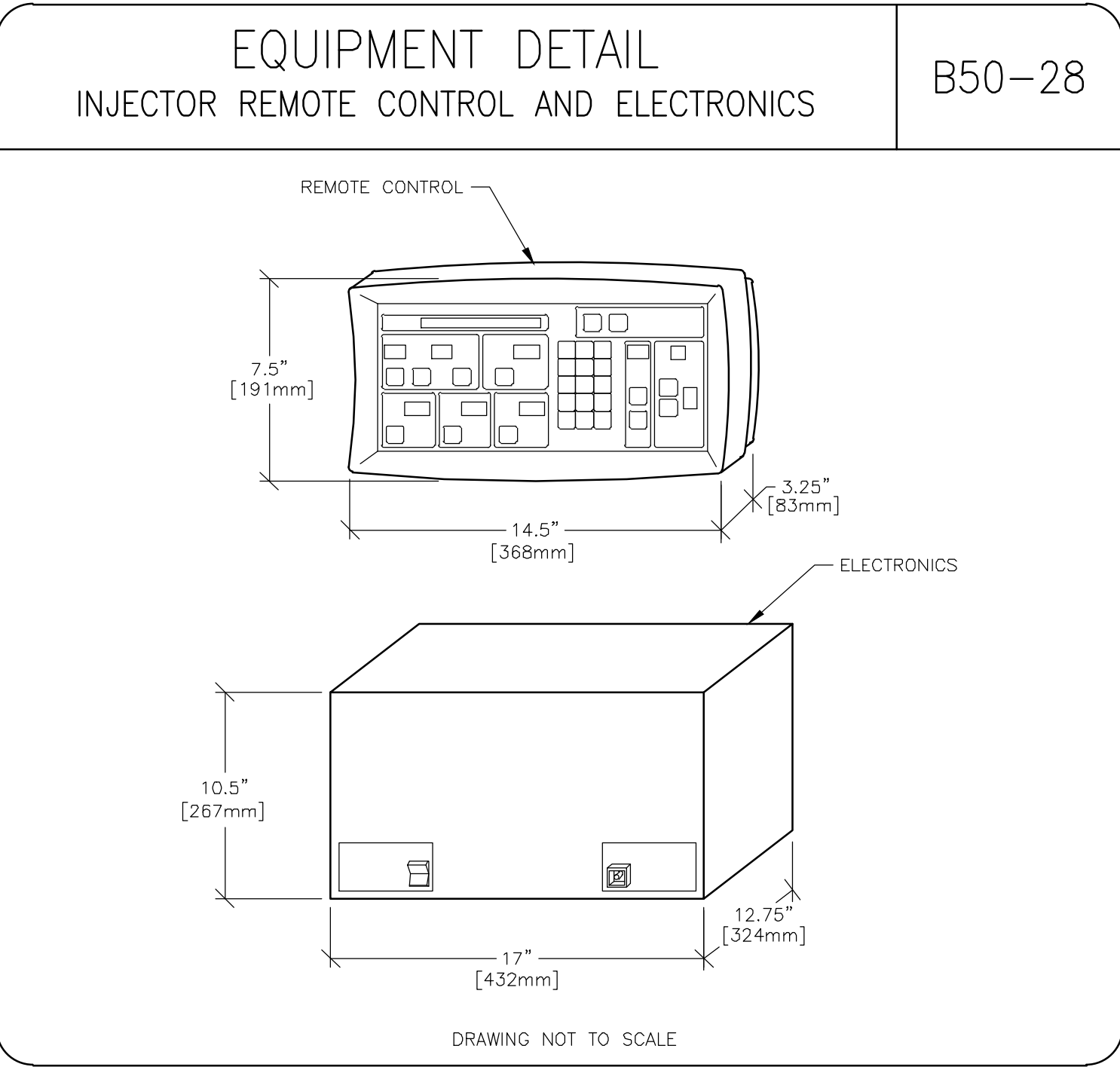
THIS PLAN IS SUBMITTED TO CURRENT LOCATION OF GE HEALTHCARE EQUIPMENT AND ASSOCIATED APPARATUS. ELECTRICAL WIRING DETAILS AND ROOM ARRANGEMENTS IN PREPARING THIS PLAN, EVERY EFFORT HAS BEEN MADE TO CONFORM DETAILS TO PREVIOUSLY SUBMITTED ELECTRICAL WIRING DETAILS. IT IS NOT TO BE USED FOR ACTUAL CONSTRUCTION PURPOSES. CONSTRUCTION OF THE COMPANY CANNOT ACCEPT RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

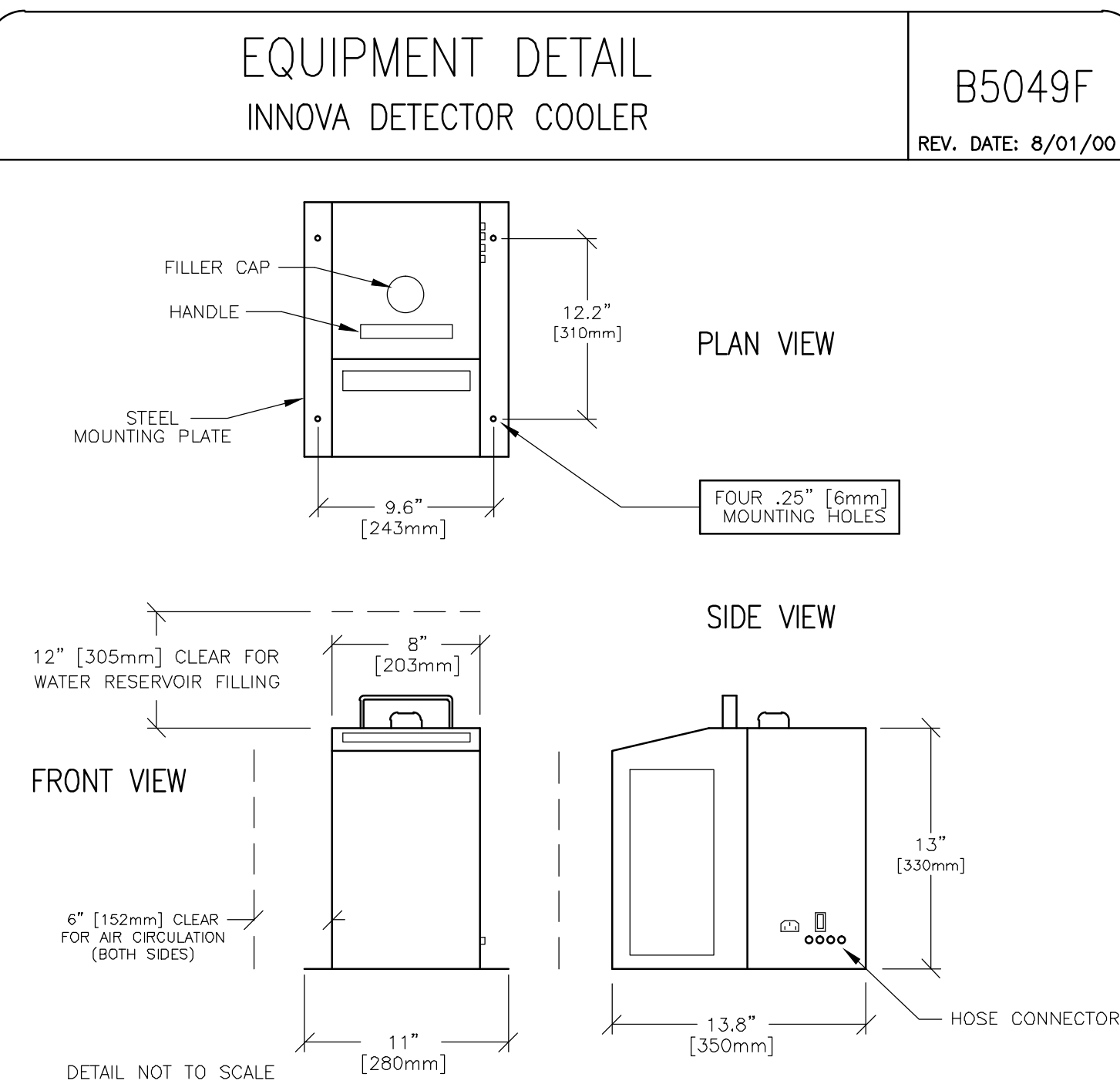
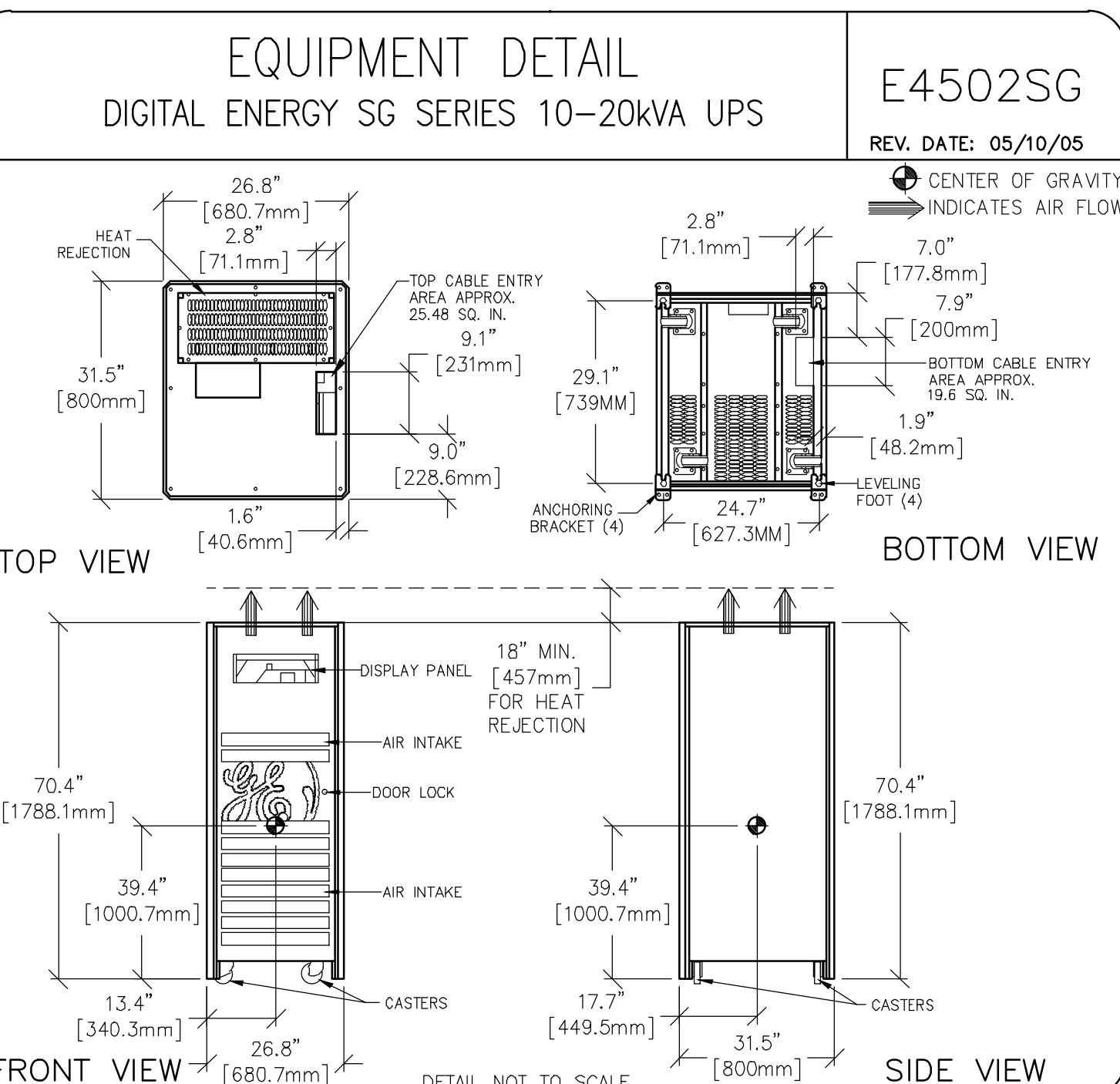
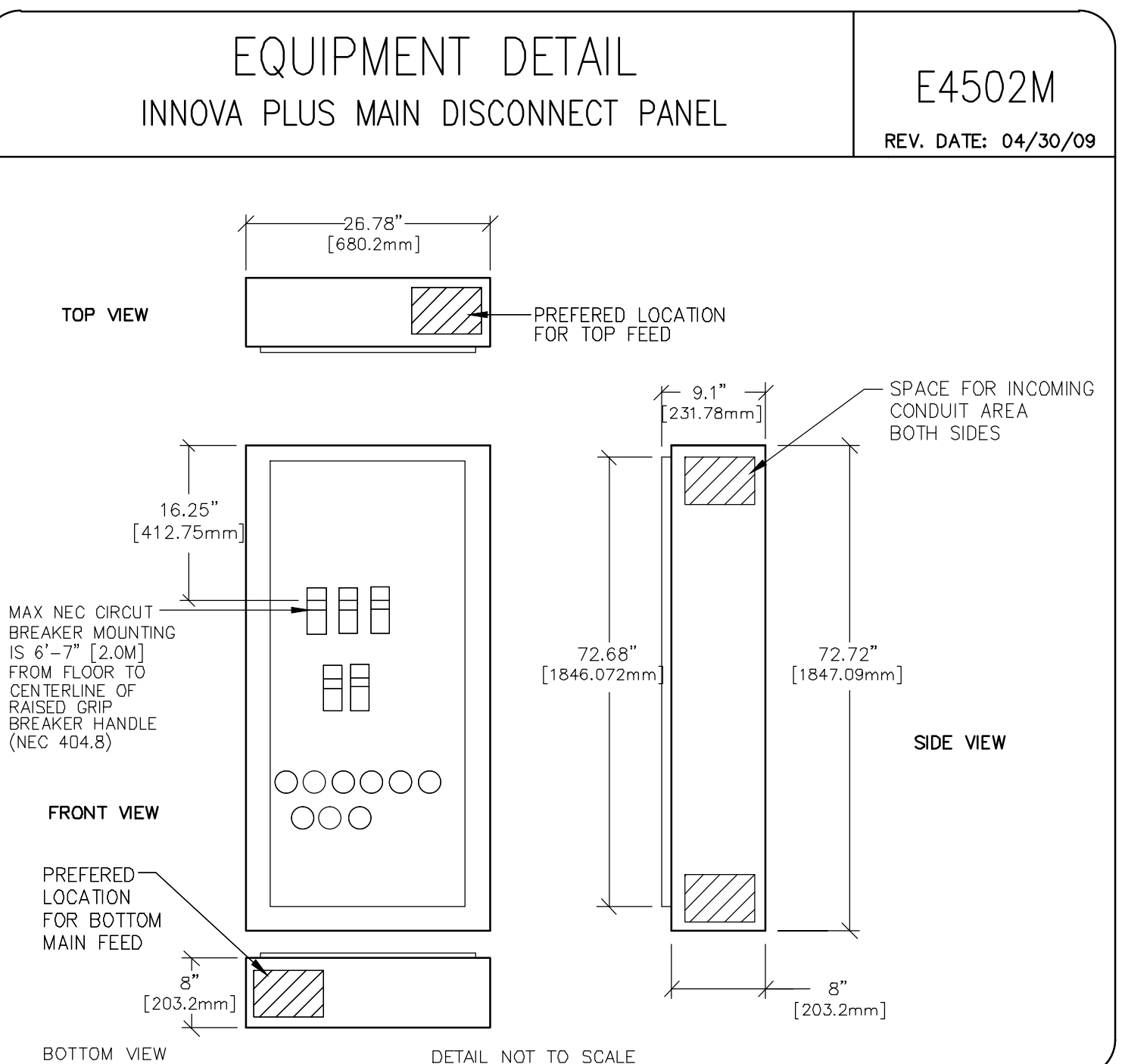
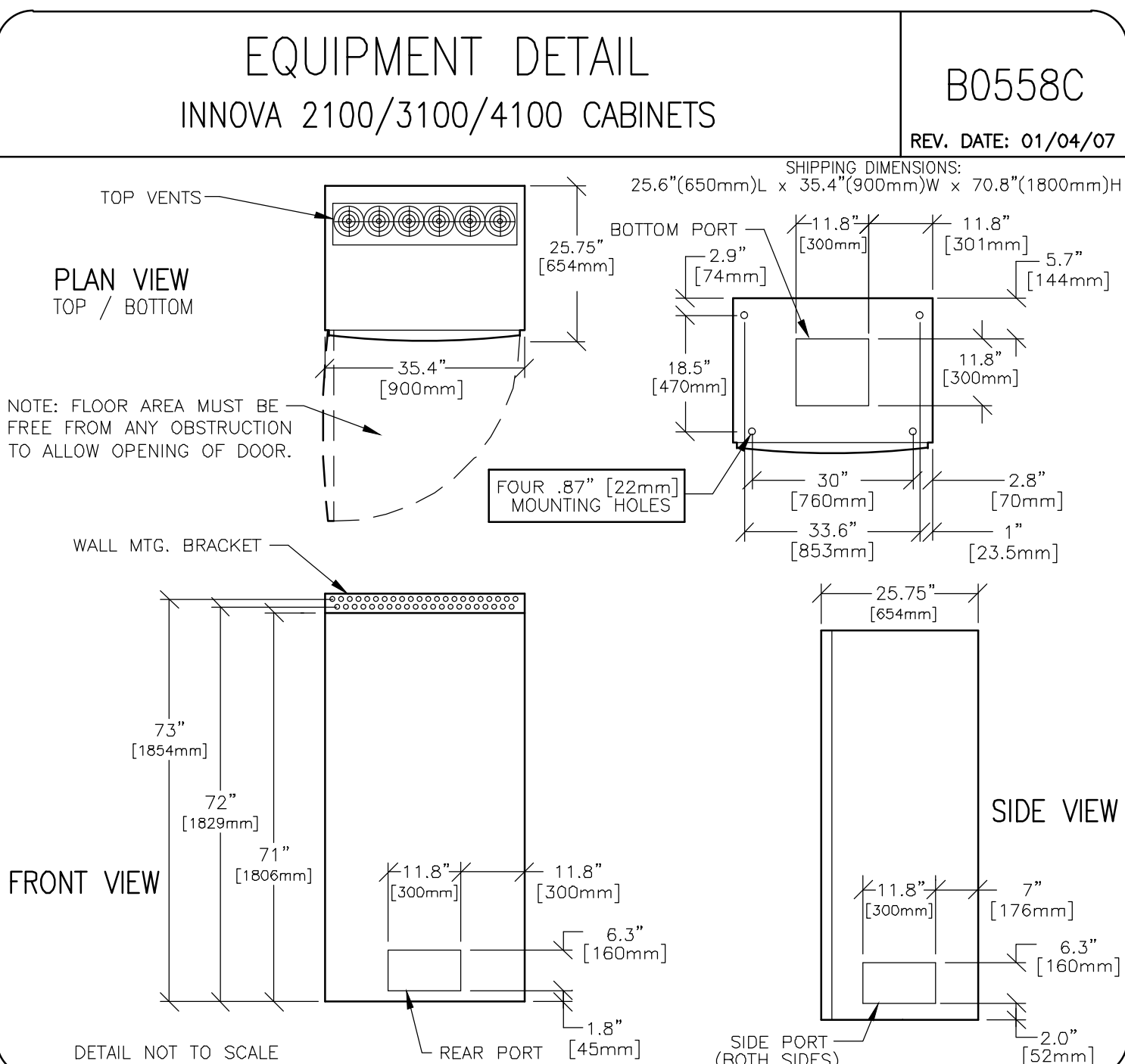
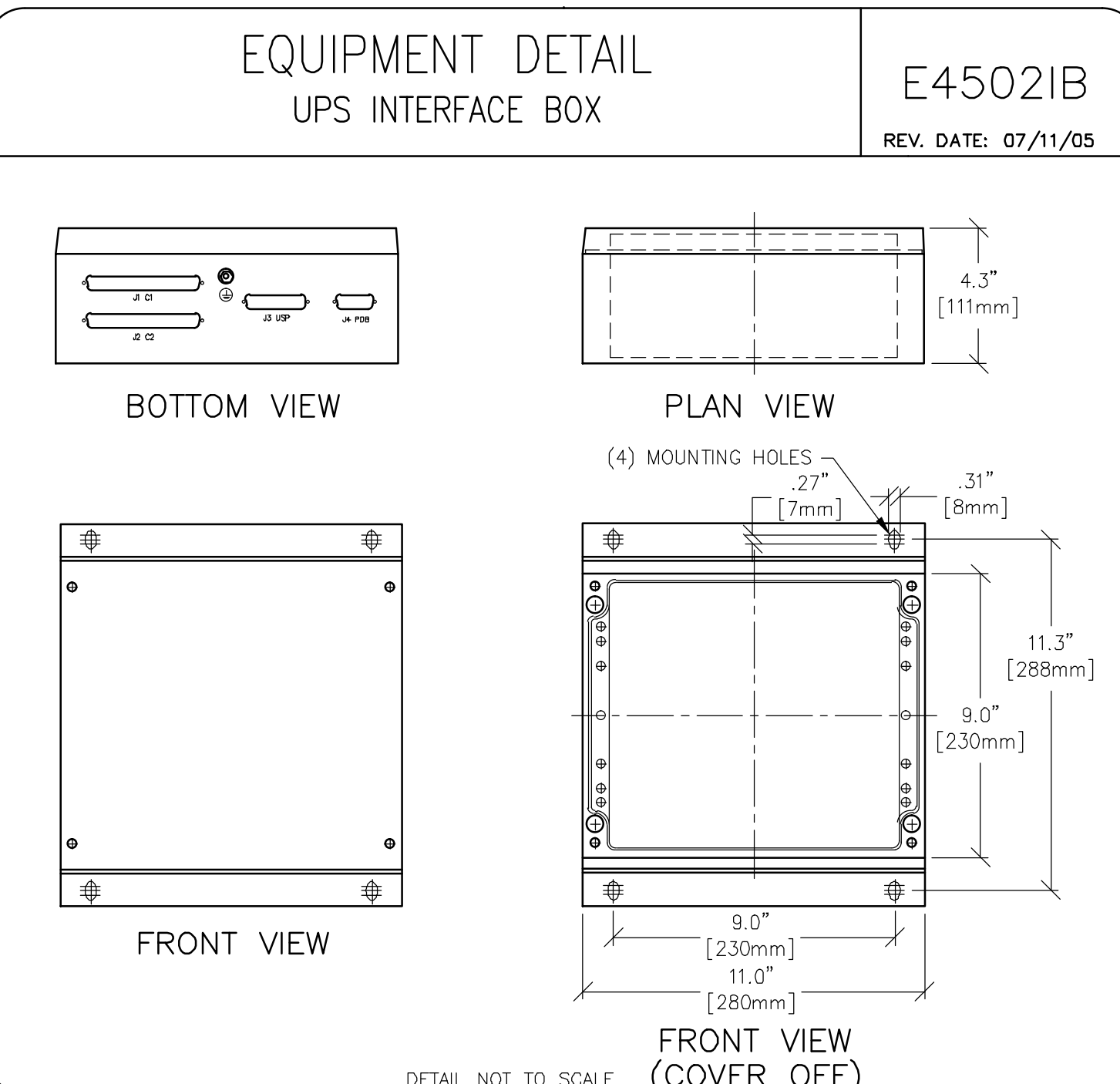
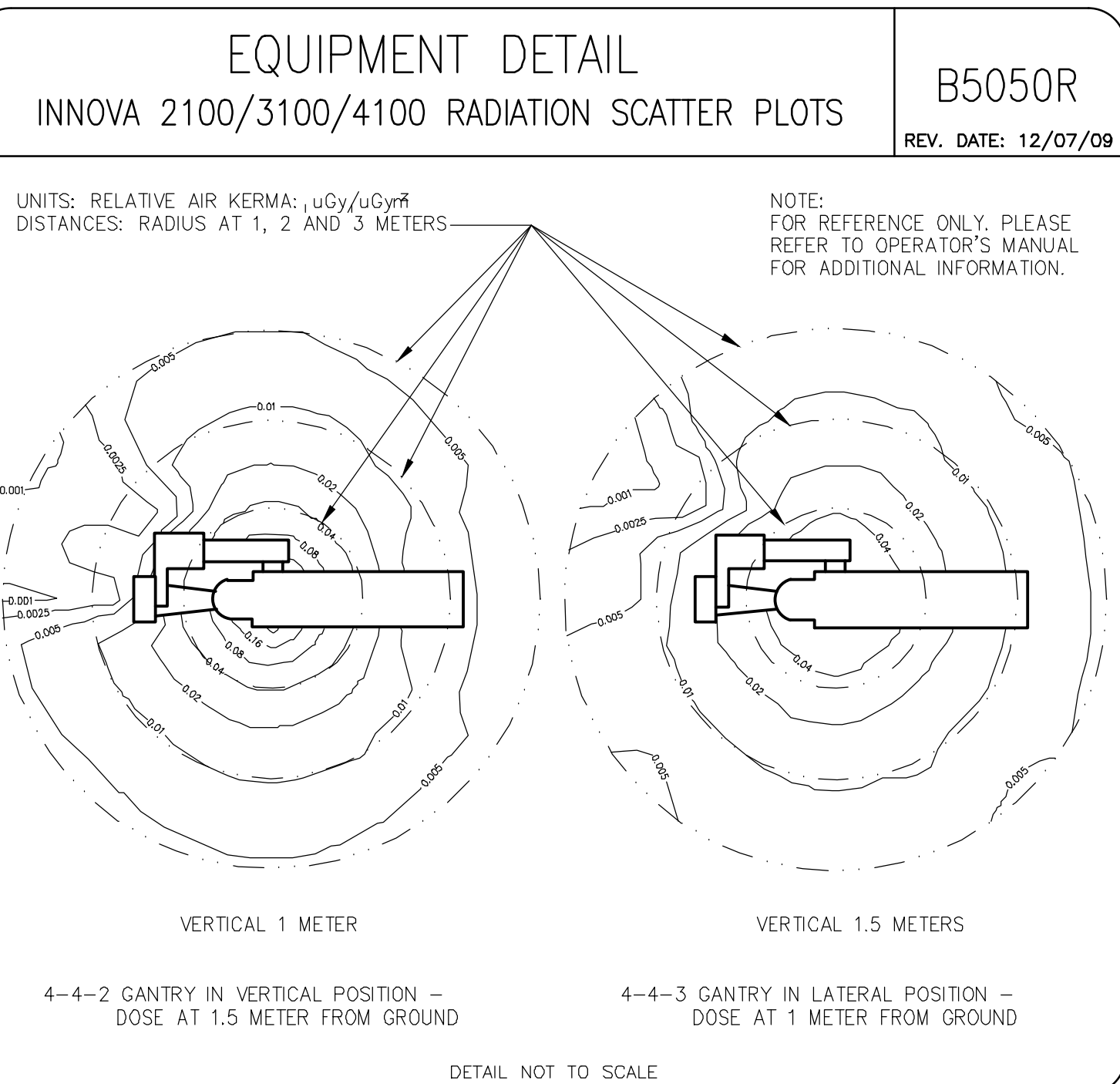
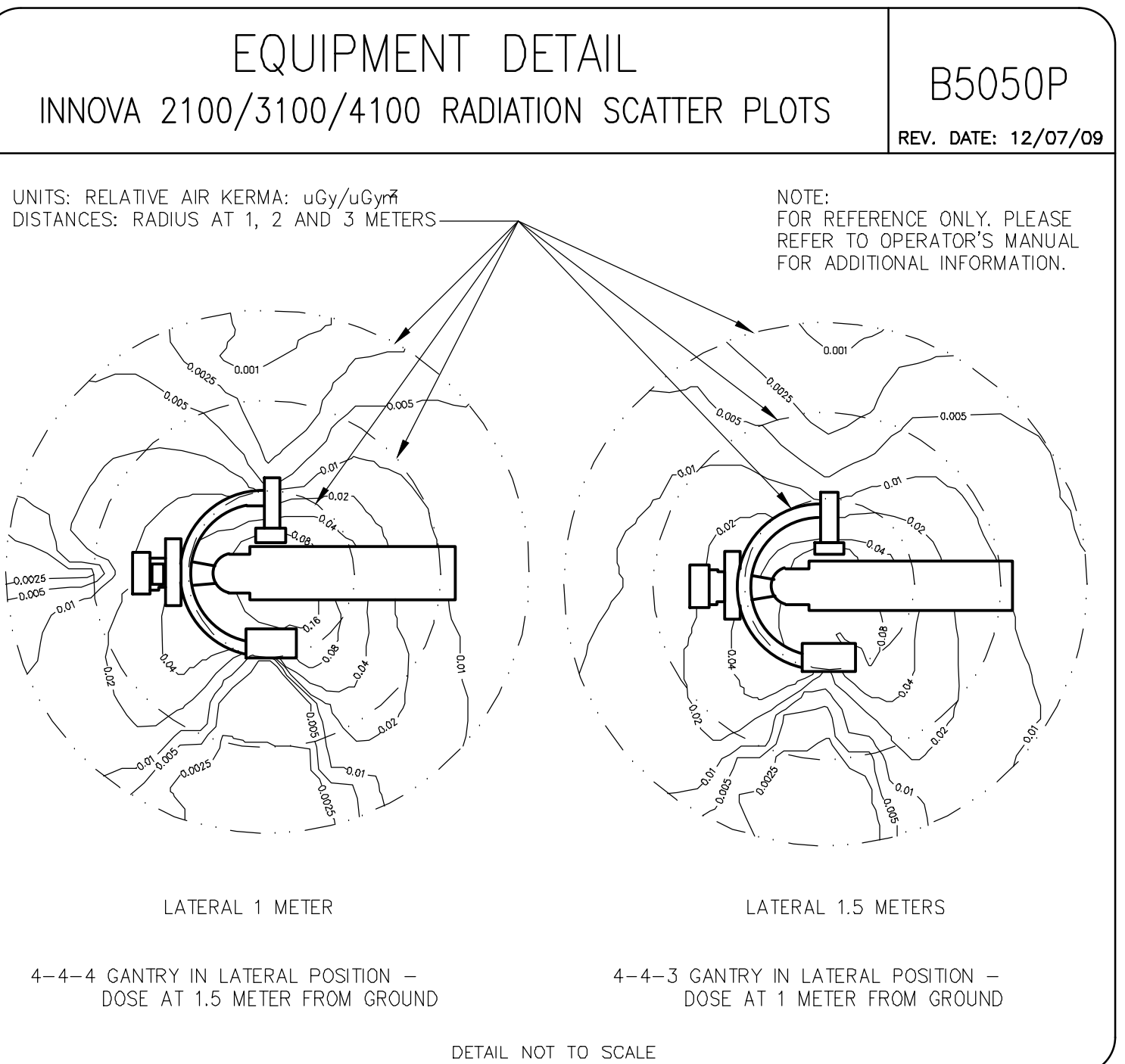
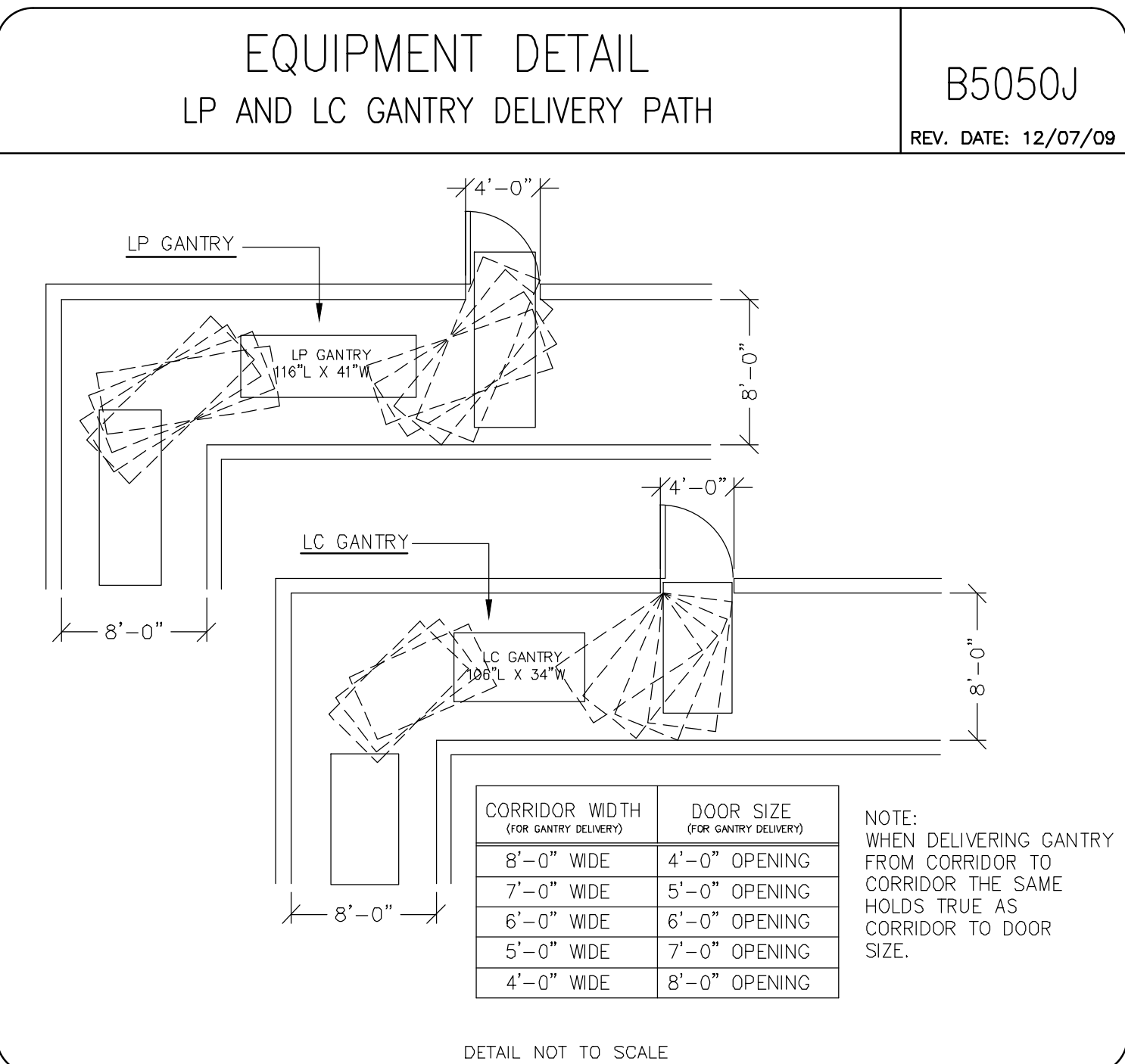
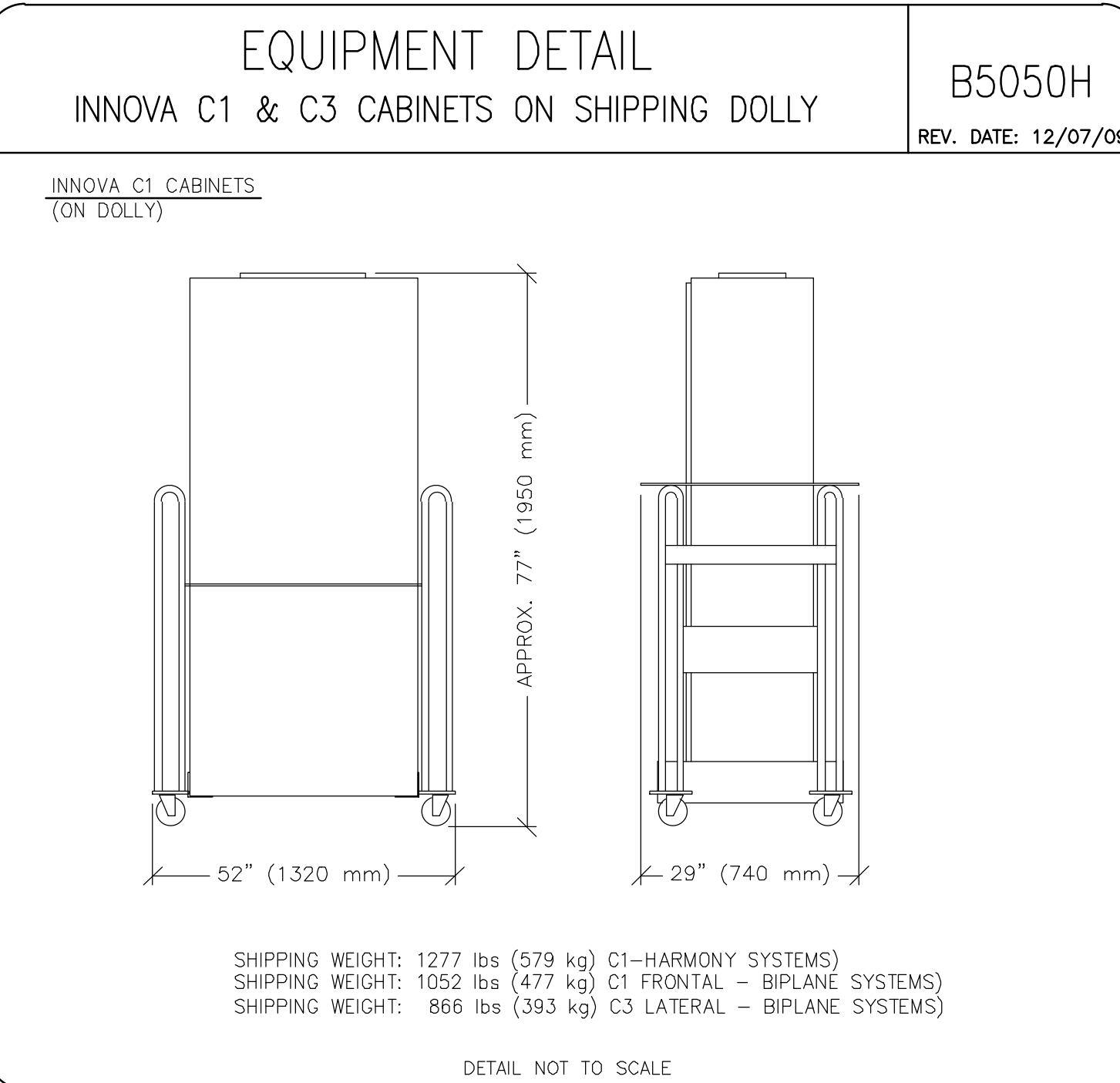
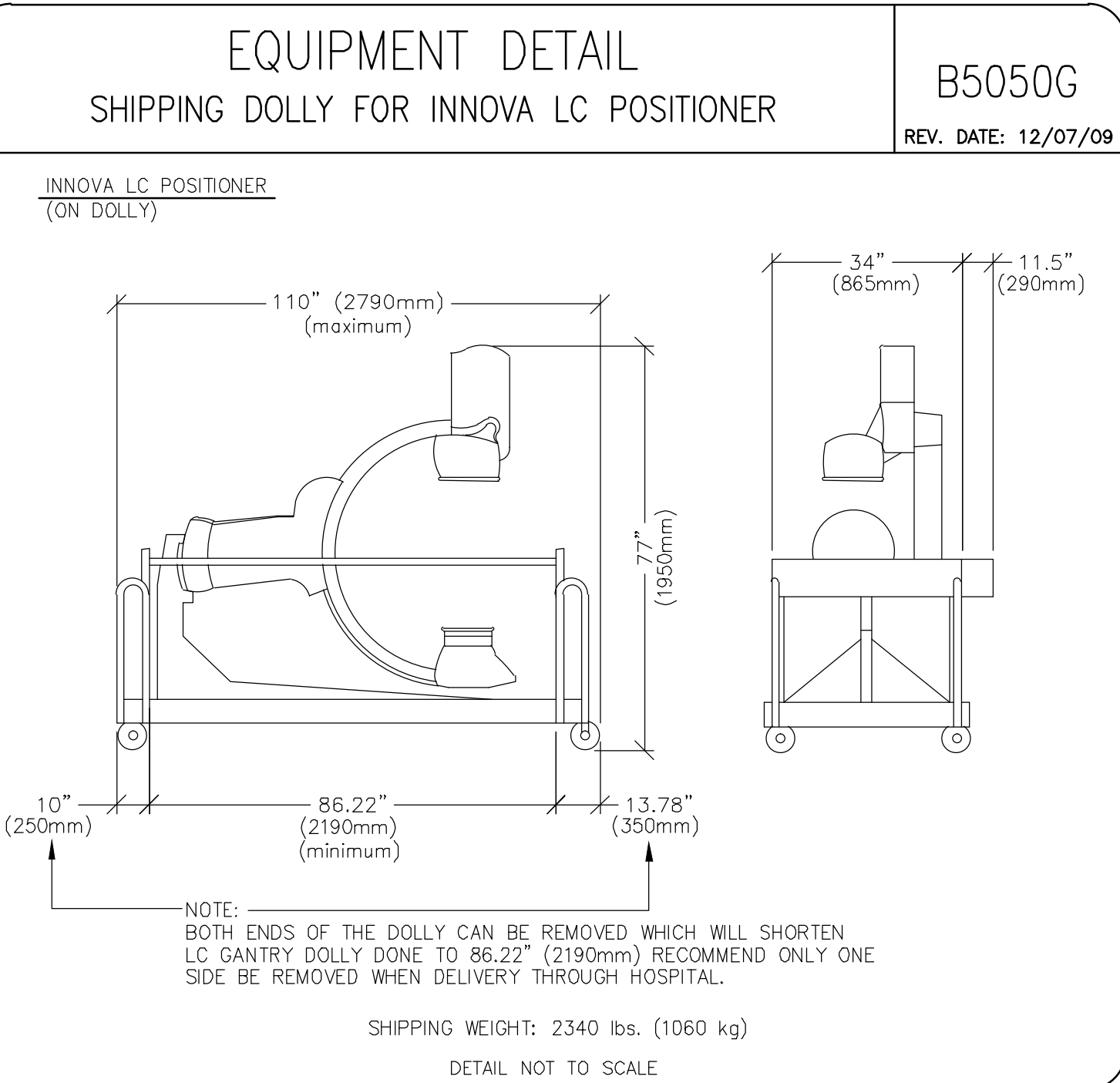
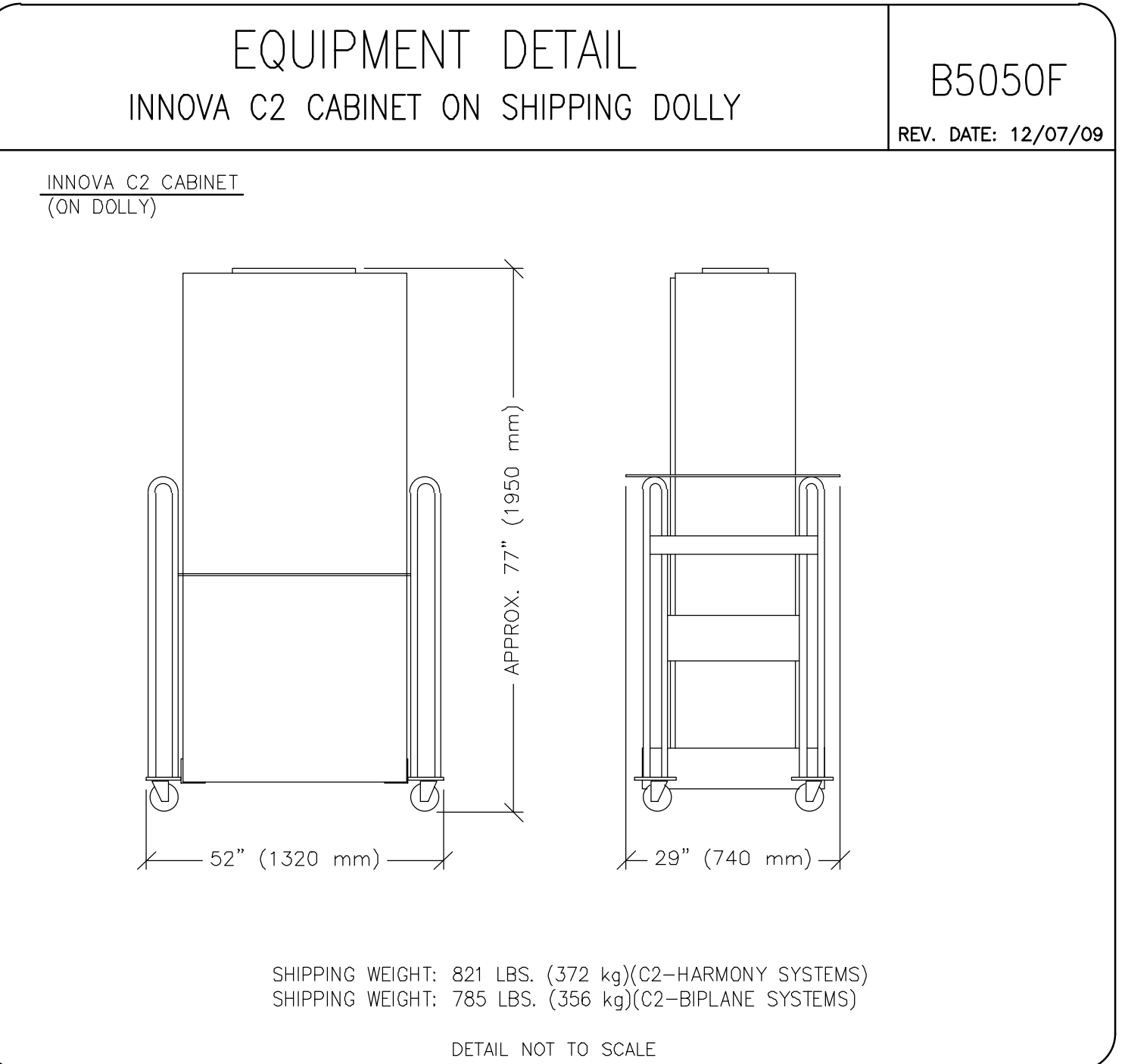
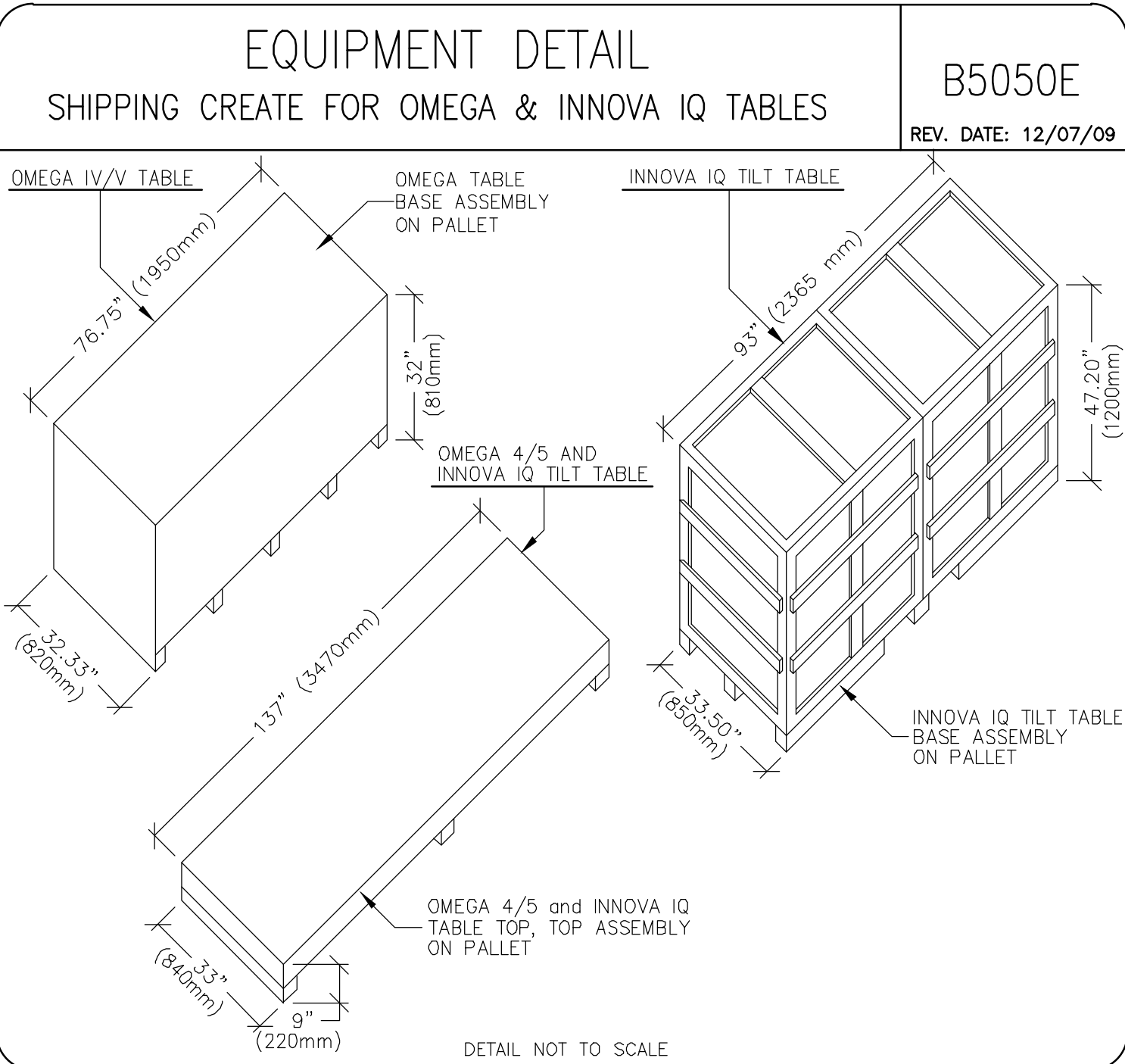
PROJECT TITLE:
INTERVENTIONAL
CARDIOLOGY
TYPICAL FINAL LAYOUT

PROJECT	REVISION
5-90f	01
DATE:	02.May.11
DRAWN BY:	LLM
CHECKED BY:	TST

REVISION HISTORY:

SHEET
E4





IS Services Design Center
Milwaukee, Wisconsin

SHEET TITLE: EQUIPMENT DETAILS

MODALITY TYPE: INNOVA PLUS

THIS PLAN IS SUBMITTED TO REQUEST 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 THE DETAILS OF THE EQUIPMENT. THE USER IS ADVISED THAT THIS PLAN IS NOT TO BE USED FOR ACTUAL CONSTRUCTION PURPOSES. THE COMPANY CANNOT ACCEPT RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:

INTERVENTIONAL CARDIOLOGY

TYPICAL FINAL LAYOUT

PROJECT	REVISION
5-90f	01

DATE: 02.May.11
DRAWN BY: LLM
CHECKED BY: TST

REVISION HISTORY:

SHEET

D2

EQUIPMENT DETAIL

COOLUX 4000 RECIRCULATING CHILLER

M0917B

REV. DATE: 05/17/05

PLAN VIEW

SHIPPING DIMENSIONS:
41"(1040mm)D x 34.8"(870mm)W x 53"(1350mm)H

21.9" [556mm]

32.7" [831mm]

43" [1092mm]

3.5" [89mm]

38.2" [969mm]

COOLING PIPE ACCESS

1.7" [44mm]

3.0" [76mm]

SIDE VIEW

FRONT VIEW

REAR VIEW

DETAIL NOT TO SCALE

EQUIPMENT DETAIL

IVUS VOLCANO S5i WORKSTATION

BS5I

REV. DATE: 04/04/08

IVUS SAFETY ISOLATION TRANSFORMER

IVUS CPU

IVUS PATIENT INTERFACE MODULE

IVUS CONTROL CONSOLE

IVUS JOYSTICK

IVUS VIDEO SWITCH

IVUS PRINTER

IVUS CONTROL ROOM MONITOR

DETAIL NOT TO SCALE

EQUIPMENT DETAIL

DLX or DL KEYPAD

C7412H

REV. DATE: 09/03/03

3.23" [82mm]

9.37" [238mm]

11.82" [300mm]

DETAIL NOT TO SCALE

EQUIPMENT DETAIL

18" FLAT PANEL MONITOR

C76-17

REV. DATE: 08/28/09

16.5" [420mm]

18" [458mm]

13.2" [337mm]

3.7" [94mm]

FRONT VIEW

SIDE VIEW

PLAN VIEW

DETAIL NOT TO SCALE

EQUIPMENT DETAIL

RCIM WITH DL KEYBOARD CONSOLE

C75-02

REV. DATE: 10/25/10

6.5" [165mm]

17.35" [440.7mm]

17.32" [440mm]

PC TOWER XW6400

18.5" [420mm]

18" [458mm]

13.2" [337mm]

3.7" [94mm]

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

TYPICAL CONTROL ROOM

INNOVA SINGLE PLANE

B5050C

REV. DATE: 08/26/08

LIVE MONITOR

REFERENCE MONITOR

ADVANTAGE WINDOWS WORKSTATION

INNOVA CONSOLE

DL CONTROL MONITOR

IVUS VOLCANO WORKSTATION

PHYSIO MONITORING WORKSTATION

DETAIL NOT TO SCALE

EQUIPMENT DETAIL

WORKSTATION

M1013AW

REV. DATE: 04/25/01

6.93" [176mm]

15.75" [400mm]

17.1" [435mm]

ULTRASPARC STATION

18.7" [475mm]

18.5" [471mm]

21" COLOR MONITOR

19.5" [495mm]

18.0" [457mm]

7.25" [184mm]

2.25" [57mm]

KEYBOARD

17.6" [447mm]

18.1" [460mm]

8.6" [218mm]

FLAT PANEL MONITOR

DETAIL NOT TO SCALE

GE Healthcare

IS Services Design Center

Minwaukee, Wisconsin

SHEET TITLE: EQUIPMENT DETAILS

MODALITY TYPE: INNOVA PLUS

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 TO DETAILS IN PREVIOUS EDITIONS OF THIS PLAN. IT IS NOT TO BE USED FOR CONSTRUCTION PURPOSES. GE HEALTHCARE, THE COMPANY, CANNOT ACCEPT RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:

INTERVENTIONAL CARDIOLOGY

TYPICAL FINAL LAYOUT

PROJECT

5-90f

REVISION

01

DATE:

02.May.11

DRAWN BY:

LLM

CHECKED BY:

TST

REVISION HISTORY:

SHEET

D3