Drawing Index

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

* REQUIRED REFERENCE *

Innova 2000

Preinstallation Manual

5160944

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

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

http://www.gehealthcare.com/company/docs/siteplanning.html

GE Healthcare

Cardio-Vascular Site Planning

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

Items 1 through 8 on the GE Healthcare Site Readiness Checklist are REQUIRED to facilitate equipment delivery to the installation site. Equipment will not be delivered if these requirements are not satisfied.

GE Healthcare Site Readiness Checklist

GEHC Global Order # : ____________ Customer: ____________

GEHC On-site Representative : ____________ MI Supplier: ____________

Name of customer reviewed with : ____________ Lead Installer: ____________

GEHC PMI : ____________ Phone Number: ____________

Target Site Prep Completion Date: ____________ Helper: ____________

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

Inspection Date			Predict (Pre-ship)				
Item #	GEHC Minimum Requirements	**Storage:** Is item ready?	Is this item ready?	Will item be ready?	**Verify (Delivery):** Is item ready?	**Validate (Mech Install):** Is item ready?	**Comments** If "N", please enter in comments or action plan
1	Equipment installation drawings must match actual room size and must meet clearance requirements. Deviations that meet installation requirements may be red-lined, if red-lining is allowed by local code. Seismic requirements are identified on construction drawings.						
2	Delivery route to installation or storage area meets requirements and has been discussed and scheduled with the customer. Ensure floor protection is discussed, requirements identified, and will be available at time of delivery and installation.						
3	Rooms that will contain equipment, including storage areas, are dust free. Room security to prevent unauthorized access and theft has been discussed with customer. The customer is aware of these security issues, implications and responsibility.						
4	In room HVAC ductwork and units (in room) must be mechanically installed and dust free. Installation rooms appear to meet environmental conditions (see Further Definitions) and observed issues have been communicated to the customer. If being stored, storage area must meet PIM storage criteria.						
5	Ceiling grid is installed, Unistrut is located per the installation drawings, and permanent lighting is installed and operational.						
6	Floor is clean and prepared for final floor covering. Customer has verified floor leveling meets the equipment installation drawings and PIM specs and no visible defects are observed. Gantry and table baseplate are installed prior to delivery (if applicable)						
7	Access to a working phone at the facility for emergency use, including MR magnet delivery.						
8	All walls primed (final coat not needed on Day 1), and counter tops that will support equipment must be installed. No dust-producing cabinetry work in installation areas.						
9	Mechanical supplier has been provided with a set of equipment installation drawings for reference. For California, permitted construction drawings or PMI-specified installation drawings are required.						
10	Conduit/electrical cable ducting/dividers/ access flooring installed, with the exception of surface-mounted floor ducting. Wiring to the main disconnect panel is installed and compliant with equipment installation drawings or pre-installation manual.						

Issued Date: 7/9/07 Rev 11

GE Healthcare Technologies

Installation Services Design Center
Milwaukee, Wisconsin

SHEET TITLE: SITE READINESS

MODALITY TYPE: INNOVA 2000

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 ACTUAL EQUIPMENT EXPECTED TO BE INSTALLED. IT IS NOT TO BE USED FOR ACTUAL CONSTRUCTION PURPOSES, HOWEVER, AND THE COMPANY CANNOT ACCEPT RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE: TYPICAL SPECIAL PROCEDURES 5-80F
TYPICAL INSTALLATION DRAWINGS

PROJECT	REVISION
5-80f	04

DATE: 10-08-07
DRAWN BY: LLM
CHECKED BY: TST

REVISION HISTORY:

SHEET
C1

cssh0507

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.

EQUIPMENT CROSS REFERENCE CHART

SEISMIC STATUS: P = PREAPPROVAL; C = CALCULATIONS/ PENDING APPROVAL; S = SPECIFICATIONS ONLY

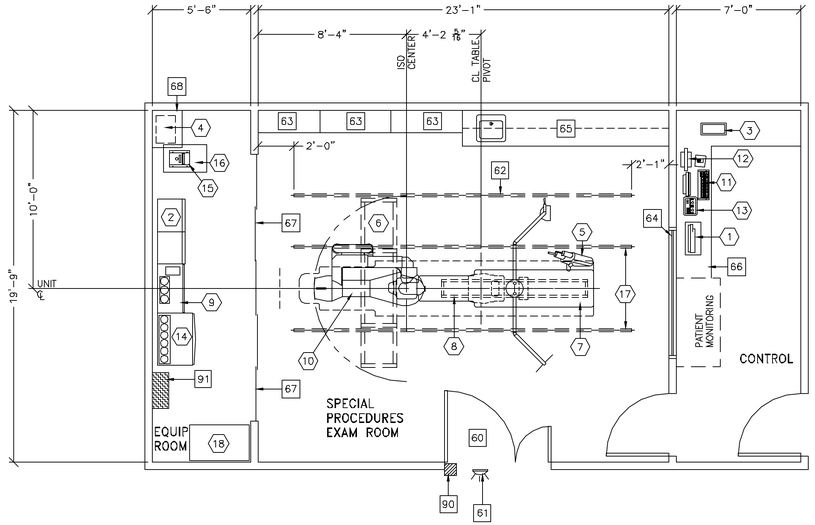
ITEM NO.	QUANTITY ORDERED	ITEM DESCRIPTION (* = EXISTING/REINSTALL)	WEIGHT	HEAT OUTPUT (PER HOUR)	DETAIL NO.	STRC PLAN	ELEC PLAN	SEISMIC STATUS
1	1	OPERATORS CONSOLE	15 lbs	194 btu	A80066	---	WBC1	C
2	1	ADVANTX VMP 100 GENERATOR	1358 lbs	5119 btu	A0721	S11	MP2	C
3	1	REMOTE CONTROL FOR INJECTOR (OPTION)	4 lbs		B5028	.	IEC	S
4	1	INJECTOR ELECTRONICS (OPTION)	37 lbs	320 btu	B5028	---	IE	S
5	1	INJECTOR HEAD ON TABLE RAIL (OPTION)	15 lbs		B5030A	---	IH	S
6	1	FOUR LCD MONITOR SUSPENSION ON 9 FT. 6 IN. XT INBOARD BRIDGE	485 lbs	1157 btu	B2004 B2010A	---	WBM1	C
7	1	OMEGA IV/V TABLE WITH ROTATING TOP	1300 lbs	614 btu	B5037	B50 49M	LU5	C
8	1	COUNTERBALANCED EYE AND THYROID SHIELD WITH LAMP (OPTION)	167 lbs	150 btu	B2064	B20 64B	LMP	S
9	1	POSITIONER CABINET	663 lbs	11126 btu	B5049E	S101	VPE1	C
10	1	INNOVA 2000 POSITIONER (REFERENCE TABLE BASE-PLATE DETAIL FOR FLOOR MOUNTING INFORMATION)	1543 lbs	1167 btu	B5049 B5049A B5049B	---	LC1	C
11	1	DLX DIGITAL CONSOLE AND KEYBOARD	17 lbs	870 btu	C7412J	---	DX2	C
12	1	DLX DIALOG DISPLAY	15 lbs		C7412G	---		S
13	1	DLX KEYPAD	4 lbs		C7412H	---		S
14	1	ATLAS CABINET	947 lbs	9556 btu	B0558	S100	ACAB	C
15	1	DETECTOR CHILLER	33 lbs	706 btu	B5049F	---	DC	S
16	1	WATER CHILLER	229 lbs	6143 btu	M0917A	---	CHLR	C
17	2	LONGITUDINAL STATIONARY RAIL FOR XT SUSPENSION	68 lbs		B20 041			C
18	1	JEDI GENERATOR CART	50 lbs					

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

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

EQUIPMENT LAYOUT

RECOMMENDED CEILING HEIGHT = 9'-6"



ANCILLARY ITEMS

CUSTOMER/CONTRACTOR SUPPLIED AND INSTALLED ITEMS

ITEM NO.	ITEM DESCRIPTION (* INDICATES EXISTING)
60	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
61	X-RAY ON \ARNING LIGHT - AVAILABLE FROM GE SUPPLY CALL: 800-200-9760 GE CAT. NO. \X1ABW-DF-X1U
62	CABLE DRAPE RAIL, CAT. NO. CPGE55 OR EQUIVALENT. CONTACT UNISTRUT WISCONSIN: 262-796-8710
63	CATHETER CABINETS
64	CONTROL WALL TO CEILING WITH LEAD GLASS VIEWING WINDOW.
65	COUNTER TOP WITH SINK, BASE AND WALL CABINETS
66	COUNTER TOP FOR EQUIPMENT- SHELVING MAY BE REQUIRED PROVIDE GROMMETED OPENINGS AS REQUIRED TO ROUTE INTERCONNECT CABLES TO RACEWAY BELOW COUNTERTOP.
67	SLIDING EQUIPMENT ROOM DOORS
68	SHELF FOR EQUIPMENT

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

90	X-RAY ROOM WARNING LIGHT/ROOM LIGHTING CONTROL PANEL REFERENCE JUNCTION POINT 'XRLC' ON SHEET E1. FOR DETAILED DESCRIPTION -CAT. NO. E4500SS FOR WARNING LIGHT & ROOM LIGHT CONTROL.
91	INNOVA MAIN DISCONNECT. REFERENCE JUNCTION POINT 'A' ON SHEET E1 FOR DETAILED DESCRIPTION. CAT NO. E4502K (24 W x 36 H x 11.2 IN. DEEP)

GENERAL SPECIFICATIONS

- THE REQUIRED CEILING HEIGHT INDICATED ON THESE PLANS IS TO ENSURE EQUIPMENT FUNCTION IS NOT INHIBITED. CONSULT WITH YOUR LOCAL GEHC INSTALLATION 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 ACCOMODATE 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 INSTALLATION. 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

- AMBIENT OPERATING TEMPERATURE: 59 TO 75 DEGREES (F), MAXIMUM ALLOWABLE TEMPERATURE CHANGE OF 15 DEGREES (F)/HOUR.
- HUMIDITY: REFER TO PREINSTALLATION MANUAL FOR THE EQUIPMENT ILLUSTRATED ON THIS DRAWING.
- ALTITUDE: NOT TO EXCEED 8,000 FT. ABOVE SEA LEVEL.
- THE ENVIRONMENT FOR THE ELECTRONICS CABINET MUST BE CONTROLLED SO THE ABOVE RESTRICTIONS ARE NOT EXCEEDED.
- DO NOT RESTRICT THE AIR INTAKE 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 Technologies
Installation Services Design Center
Wisconsin
Milwaukee,

SHEET TITLE: EQUIPMENT LAYOUT

MODALITY TYPE: INNOVA 2000

PROJECT TITLE: TYPICAL SPECIAL PROCEDURES 5-80F

TYPICAL INSTALLATION DRAWINGS

PROJECT	REVISION
5-80f	04

DATE: 10-08-07
DRAWN BY: LLM
CHECKED BY: TST

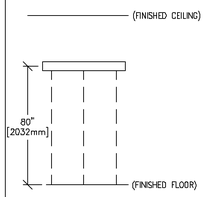
REVISION HISTORY:

SHEET A1

NFSH-1002

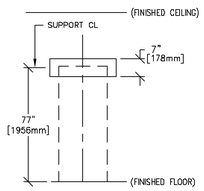
TYPICAL WALL SUPPORT ELEVATIONS

S11



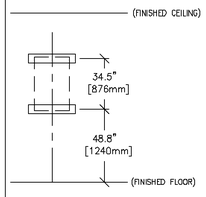
SUPPORT FOR ADVANTX
GENERATOR CABINET
(NOT TO SCALE)

S101



SUPPORT FOR INNOVA
POSITIONER CABINET
(NOT TO SCALE)

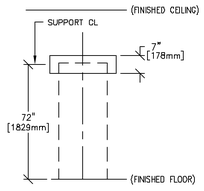
S108



SUPPORT FOR
MAIN DISCONNECT CONTROL

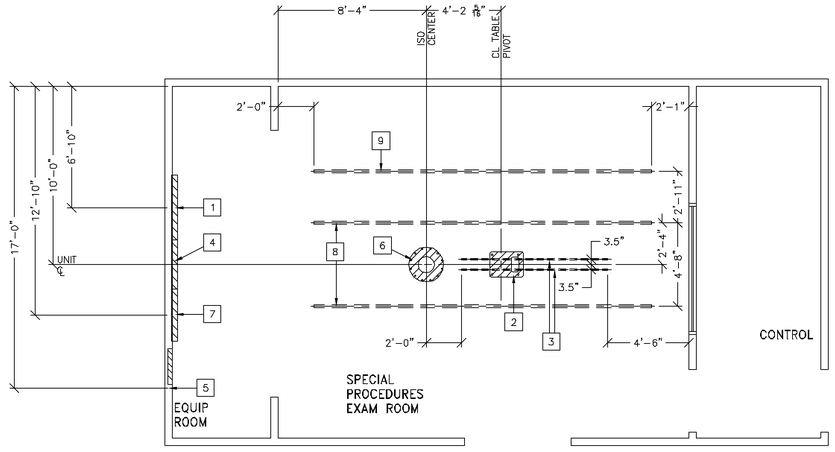
(NOT TO SCALE)

S100



SUPPORT FOR
ATLAS/SYSTEMS CABINET
(NOT TO SCALE)

SCALE: 1/4" = 1'-0" STRUCTURAL LAYOUT RECOMMENDED CEILING HEIGHT = 9'-6"



STRUCTURAL SUPPORT METHODS

CUSTOMER/CONTRACTOR SUPPLIED AND INSTALLED ITEMS

ITEM NO. ☐	ITEM DESCRIPTION (* INDICATES EXISTING)
1	SUPPORT BACKING. LOCATE AS SHOWN. REFER TO ELEVATION DETAIL S11, FOR GENERATOR CABINET
2	AREA OCCUPIED BY GE SUPPLIED OMEGA TABLE BASE
3	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.
4	SUPPORT BACKING. LOCATE AS SHOWN. REFER TO ELEVATION DETAIL S101, FOR POSITIONER CABINET.
5	SUPPORT BACKING. LOCATE AS SHOWN. REFER TO ELEVATION DETAIL S108, FOR MAIN DISCONNECT CONTROL.
6	AREA OCCUPIED BY GE SUPPLIED POSITIONER BASEPLATE
7	SUPPORT BACKING. LOCATE AS SHOWN. REFER TO ELEVATION DETAIL S100, FOR ATLAS CABINET.
8	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'-0", 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.
9	>>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'-0", AND REQUIRE 50 LBS. PER BOLT LOAD. METHODS OF SUPPORT THAT PERMIT ATTACHMENT TO STRUCTURAL STEEL OR THROUGH BOLTS IN CONCRETE SHOULD BE FAVORED. DO NOT USE SCREW ANCHORS IN DIRECT TENSION. >>COMPONENTS BELOW CEILING<< CABLE DRAPE RAIL, UNISTRUT CAT. NO. CPGE55 or EQUIVALENT.

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 AUXILLARY 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.

GE Healthcare Technologies
Installation Services Design Center
Wisconsin
Milwaukee,

SHEET TITLE: STRUCTURAL LAYOUT

MODALITY TYPE: INNOVA 2000

PROJECT TITLE:
TYPICAL SPECIAL PROCEDURES 5-80F
TYPICAL INSTALLATION DRAWINGS

PROJECT	REVISION
5-80f	04

DATE: 10-08-07
DRAWN BY: LLM
CHECKED BY: TST

REVISION HISTORY:

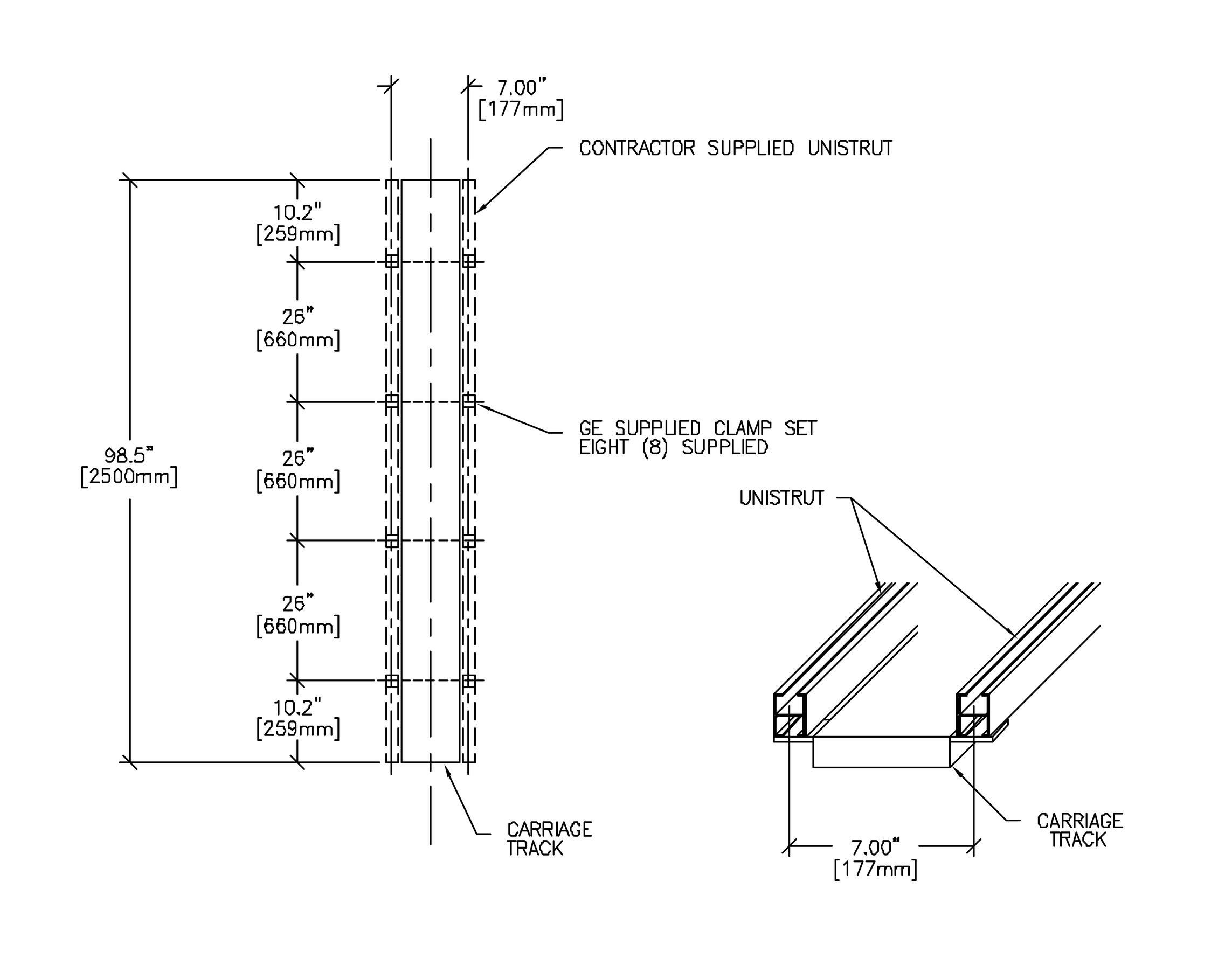
SHEET
S1

NFSH-1002

SUPPORT DETAIL — B20-64B

AADCO CEILING TRACK MOUNTING

REV. DATE: 06/19/06

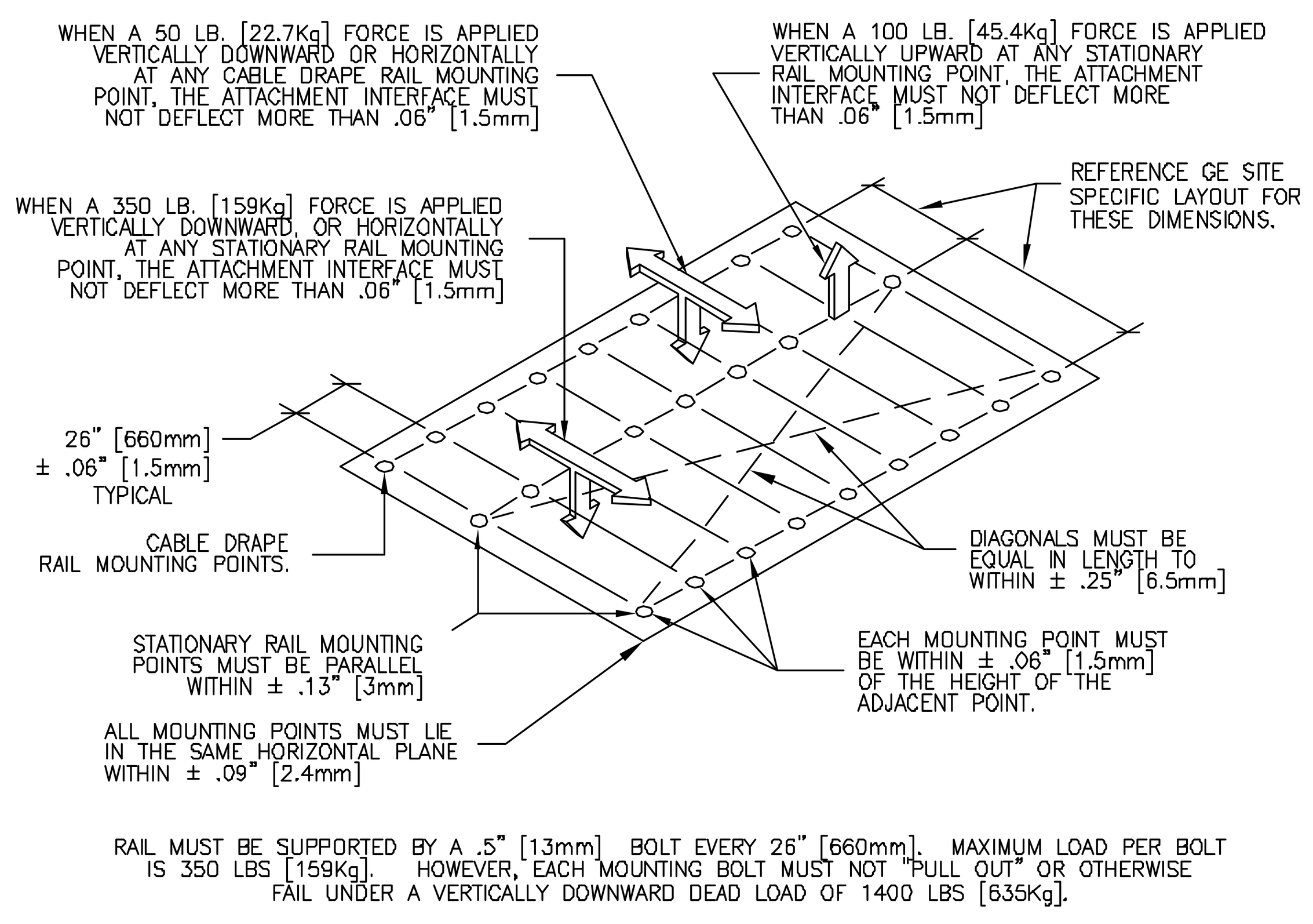


DETAIL NOT TO SCALE

SUPPORT DETAIL — B20-041

XT RADIOGRAPHIC SUSPENSION, INBOARD MOUNTING

REV. DATE: 01/23/07



RAIL MUST BE SUPPORTED BY A .5" [13mm] BOLT EVERY 26" [660mm]. MAXIMUM LOAD PER BOLT IS 350 LBS [159Kg]. HOWEVER, EACH MOUNTING BOLT MUST NOT "PULL OUT" OR OTHERWISE FAIL UNDER A VERTICALLY DOWNWARD DEAD LOAD OF 1400 LBS [635Kg].

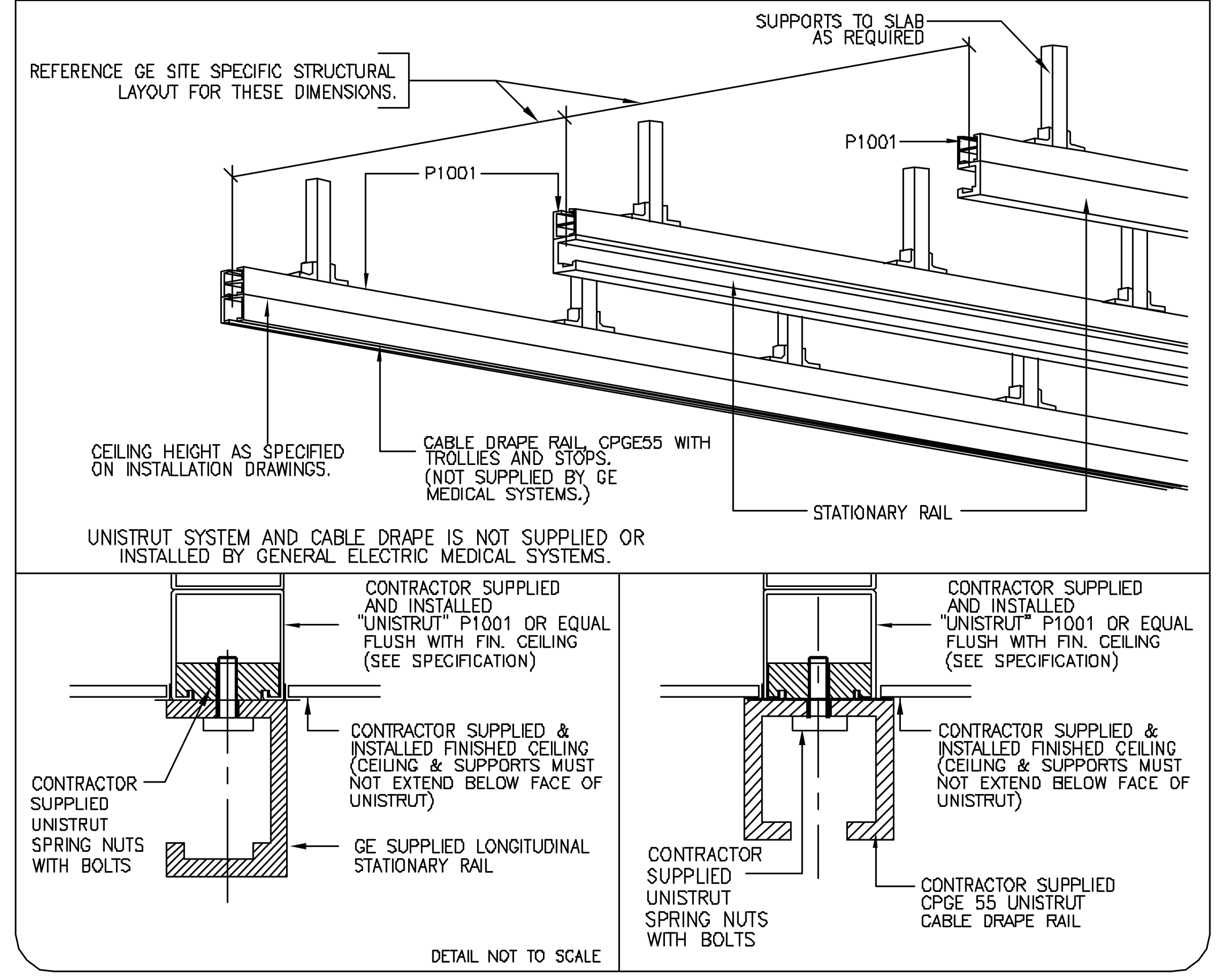
UNISTRUT SYSTEM IS NOT SUPPLIED OR INSTALLED BY GENERAL ELECTRIC MEDICAL SYSTEMS.

DETAIL NOT TO SCALE

SUPPORT DETAIL — B20-042

XT RADIOGRAPHIC SUSPENSION, INBOARD MOUNTING

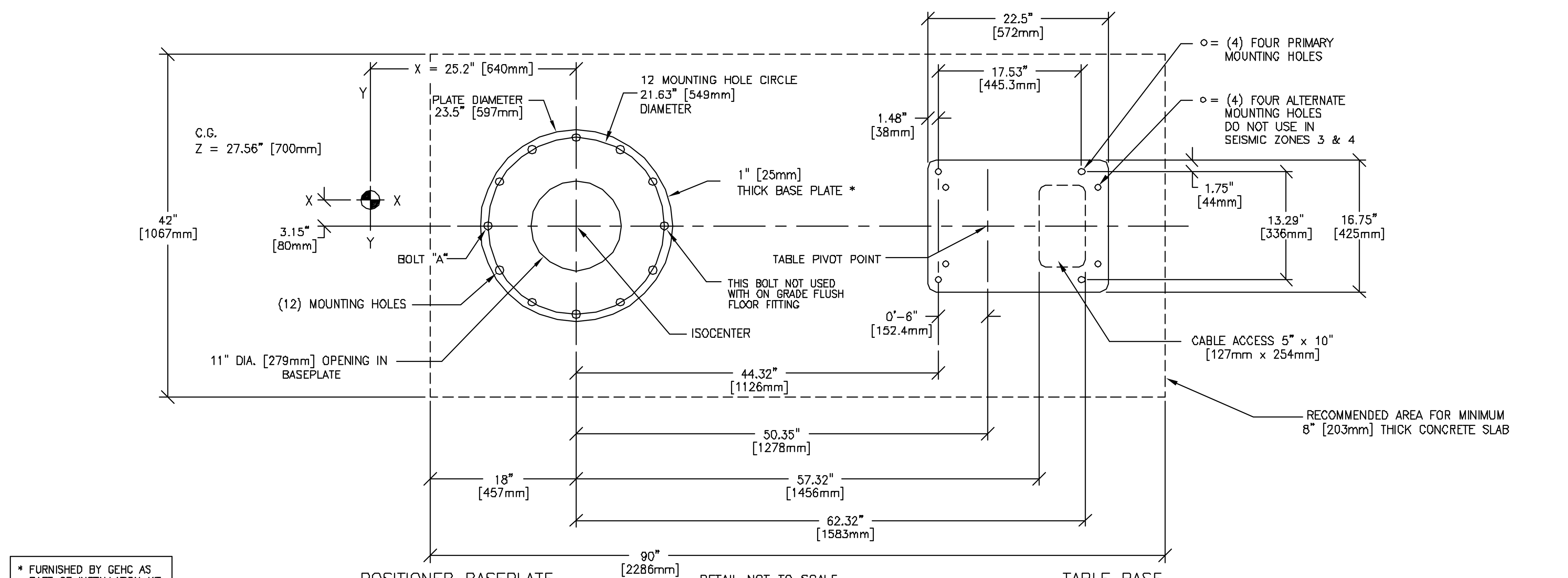
REV. DATE: 08/09/05



DETAIL NOT TO SCALE

FLOOR MOUNTING : INNOVA 2000/OMEGA V LONG TABLE INSTALLATION (TEMPLATE NO. 2127792) — B5049M

REV. DATE: 05/29/07



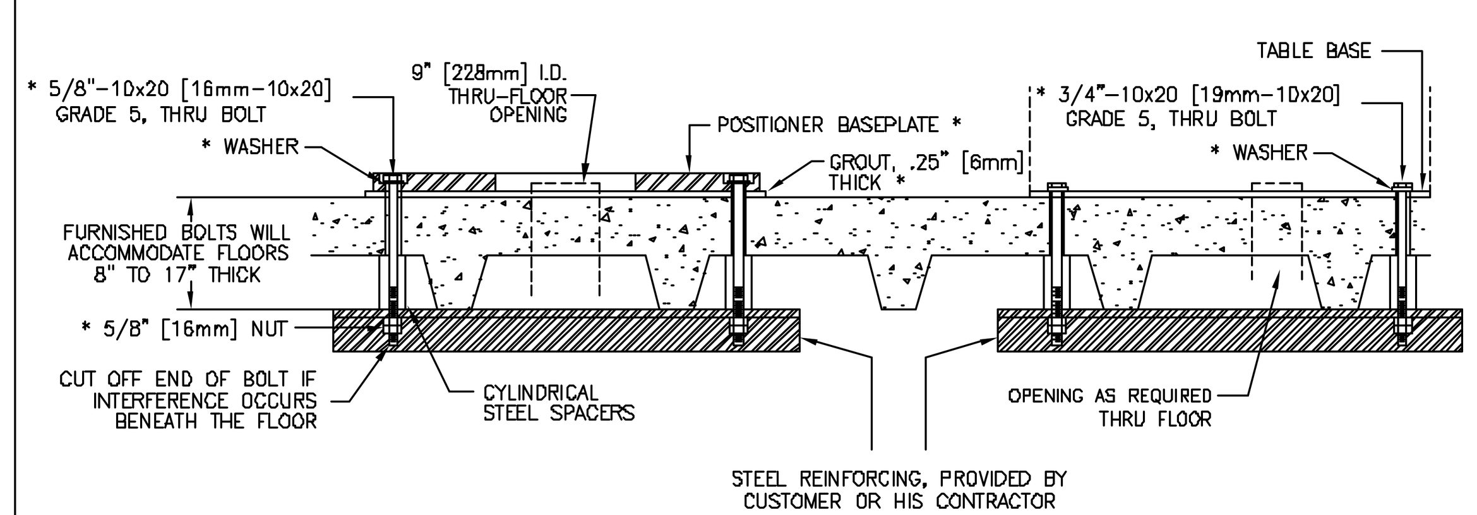
* FURNISHED BY GEHC AS PART OF INSTALLATION KIT

DETAIL NOT TO SCALE

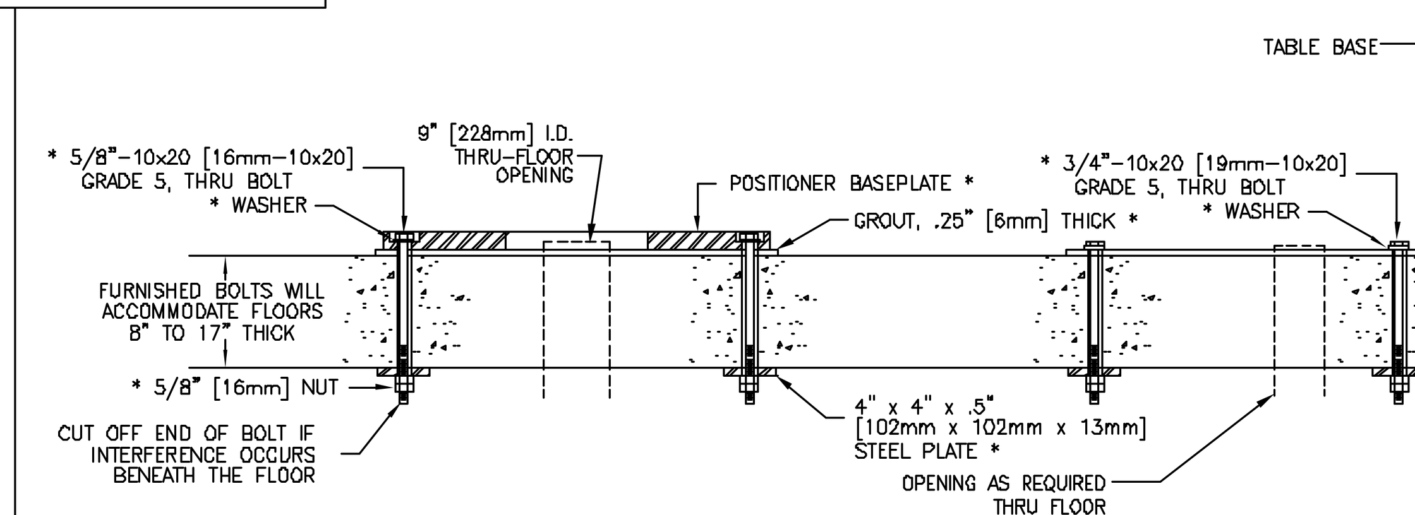
WARNING!! THE RELATIONSHIP BETWEEN THE TABLE BASE AND THE POSITIONER BASEPLATE IS CRITICAL.

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.

THROUGH-BOLT MOUNTING OPTIONS



PAN CONSTRUCTION

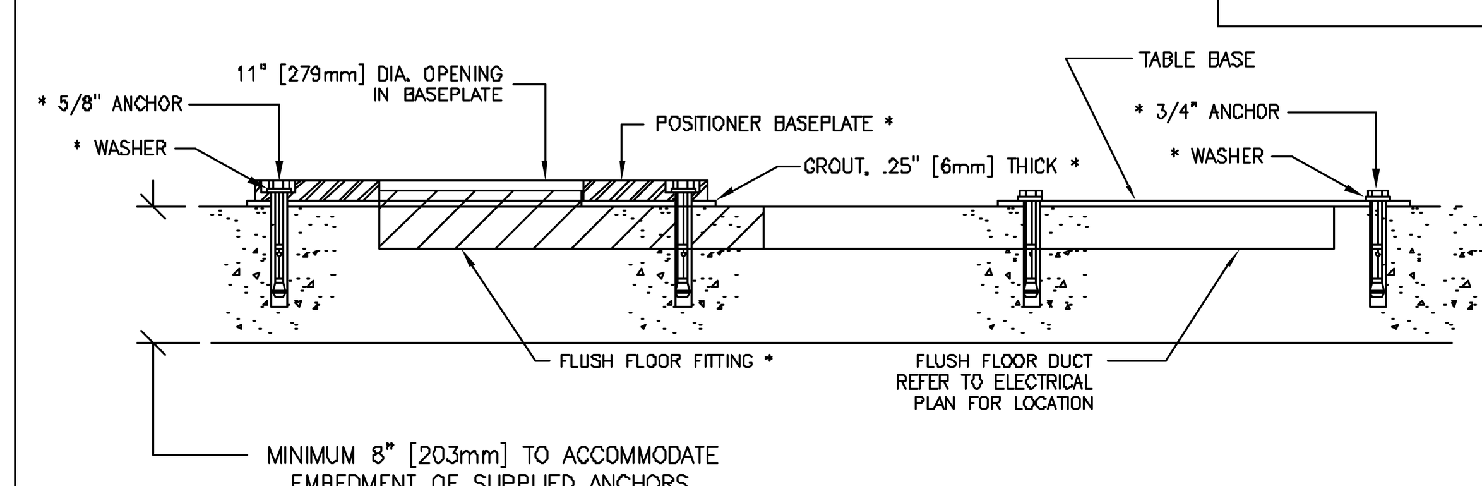


SLAB CONSTRUCTION

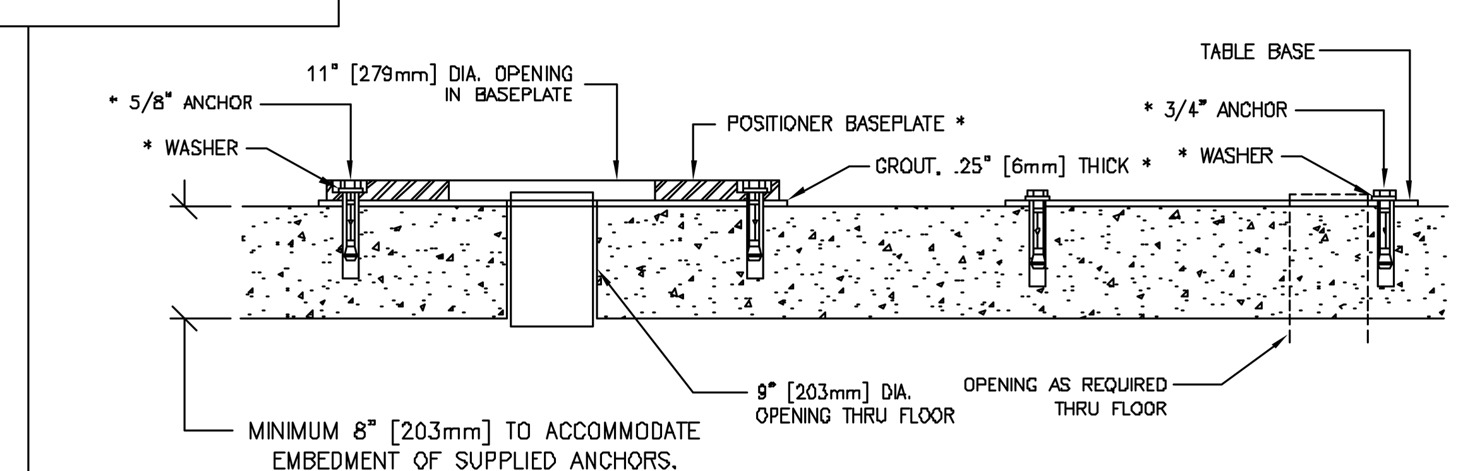
* FURNISHED BY GEHC AS PART OF INSTALLATION KIT

* FURNISHED BY GEHC AS PART OF INSTALLATION KIT

ANCHOR BOLT MOUNTING OPTIONS



ON GRADE CONSTRUCTION

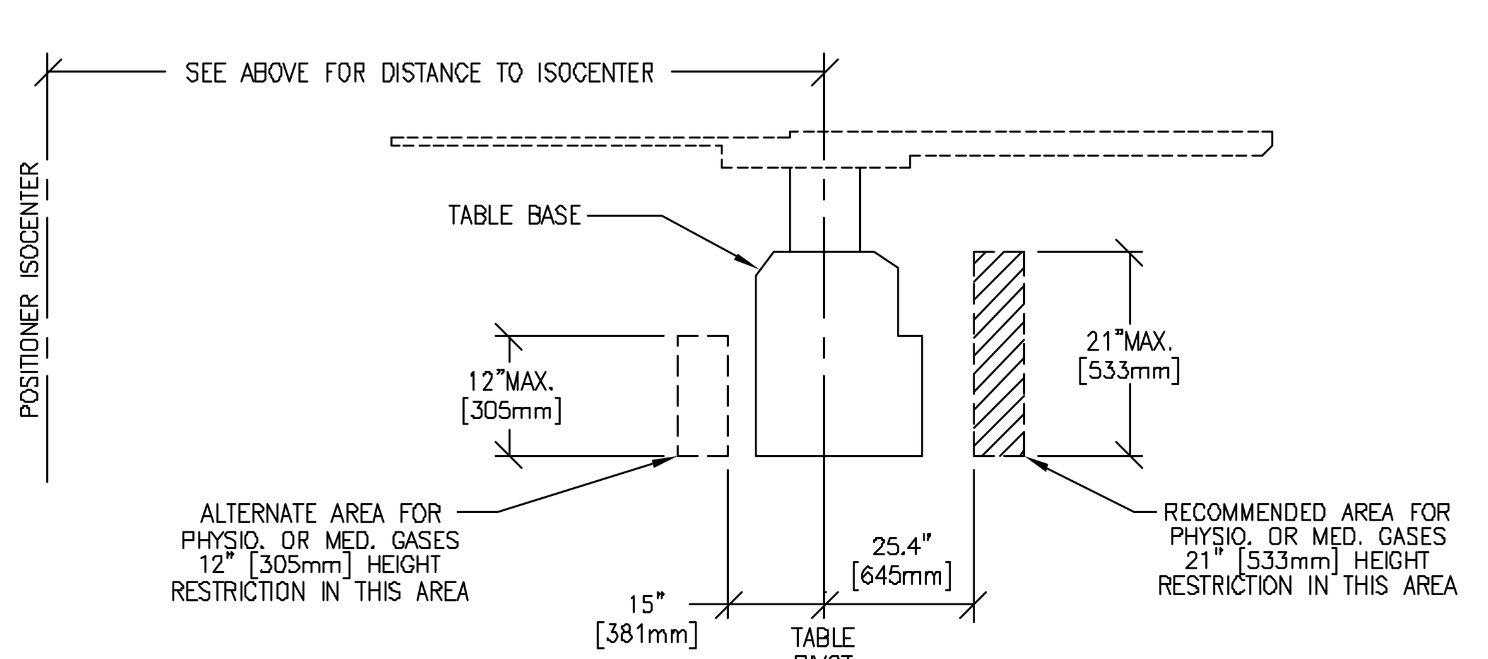


ABOVE GRADE CONSTRUCTION

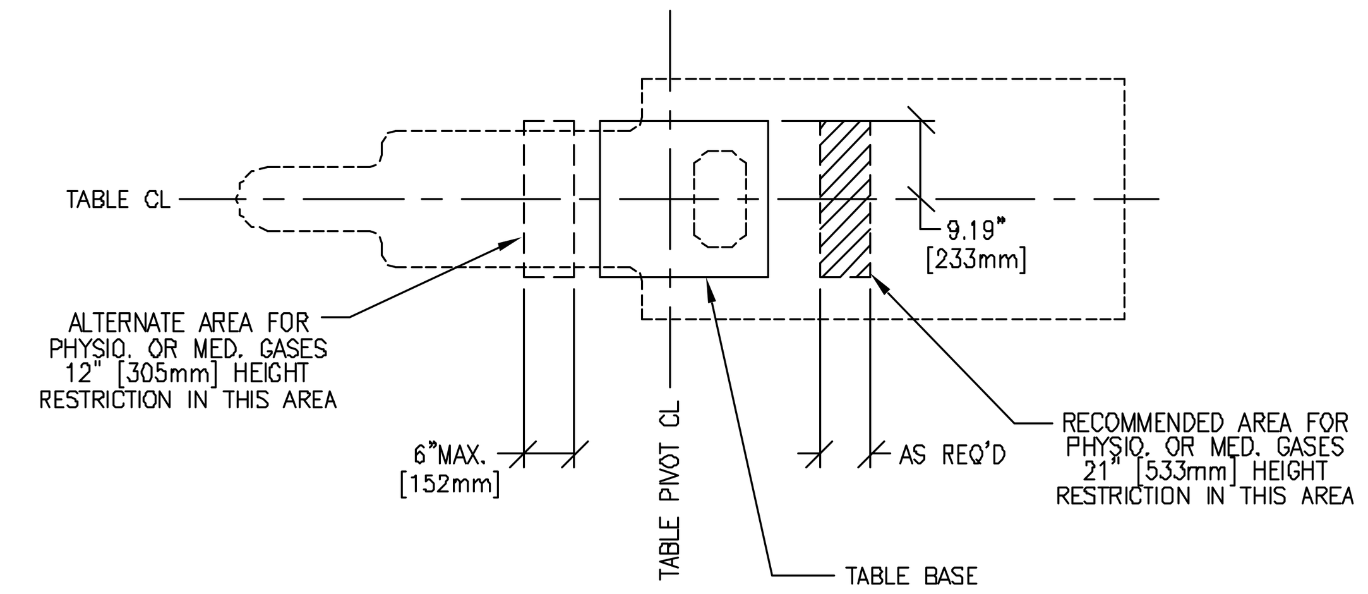
* FURNISHED BY GEHC AS PART OF INSTALLATION KIT

* FURNISHED BY GEHC AS PART OF INSTALLATION KIT

MEDICAL GAS FLOOR EXIT LOCATIONS



SIDE VIEW



PLAN VIEW

DETAIL NOT TO SCALE

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]

NOTE: JOISTS MUST BE SPANNED WITH STEEL REINFORCING. SIZE AND THICKNESS OF STEEL REINFORCING ARE DETERMINED BY THE ACTUAL PAN CONSTRUCTION ON SITE. STEEL PLATES, CHANNELS OR BEAMS MAY BE USED.

NOTE: DETERMINE THE POSITION OF THE "REBARS IN THE CONCRETE FLOOR SO ANCHOR HOLES WILL NOT RUN INTO THEM.

* DOCUMENT FURNISHED BY GEHC AS PART OF INSTALLATION KIT

POSITIONER BOLT FORCES FOR WORST CASE CONDITIONS

LOADS

HORIZONTAL ACCELERATION = 625 lbs. [284 Kg]
VERTICAL ACCELERATION = 209 lbs. [95 Kg]

BOLT TENSION (AT BOLT "A")
MAXIMUM TENSION = 881 lbs. [400 Kg]

BOLT SHEAR (U-ARM LOCKED)
MAXIMUM SHEAR = 120 lbs. [54 Kg]/BOLT

OMEGA TABLE BOLT FORCES FOR WORST CASE CONDITIONS

LOADS

BOLT TENSION
MAXIMUM TENSION = 1938 lbs. [880 Kg]/BOLT

BOLT SHEAR
MAXIMUM SHEAR = 407 lbs. [185 Kg]/BOLT

GE Healthcare Technologies
Installation Services Design Center
Milwaukee, Wisconsin

SHEET TITLE: STRUCTURAL DETAILS

MODALITY TYPE: INNOVA 2000

PROJECT TITLE: TYPICAL SPECIAL PROCEDURES 5-80F
TYPICAL INSTALLATION DRAWINGS

PROJECT	REVISION
5-80f	04

DATE: 10-08-07
DRAWN BY: LLM
CHECKED BY: TST

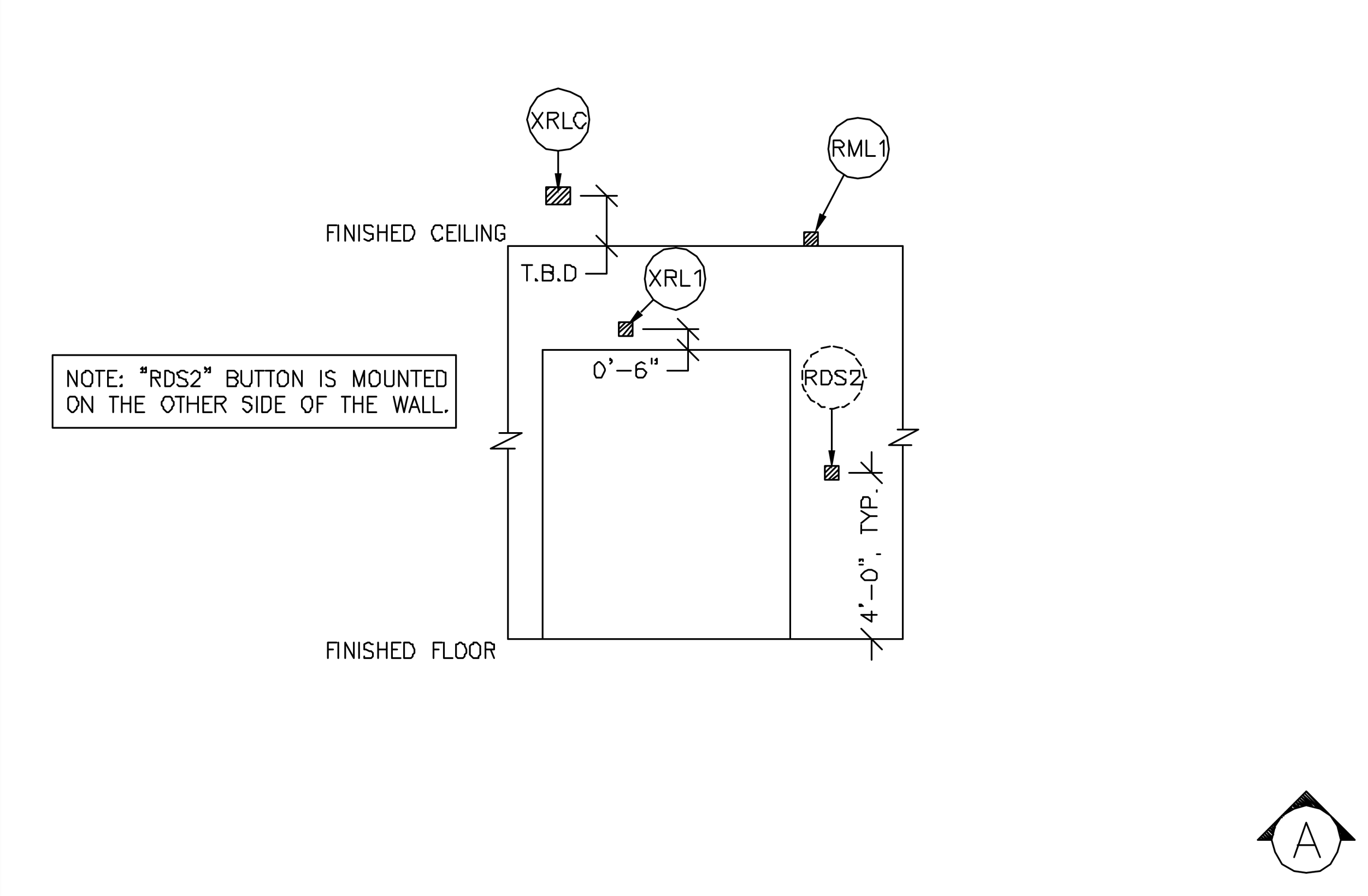
REVISION HISTORY:

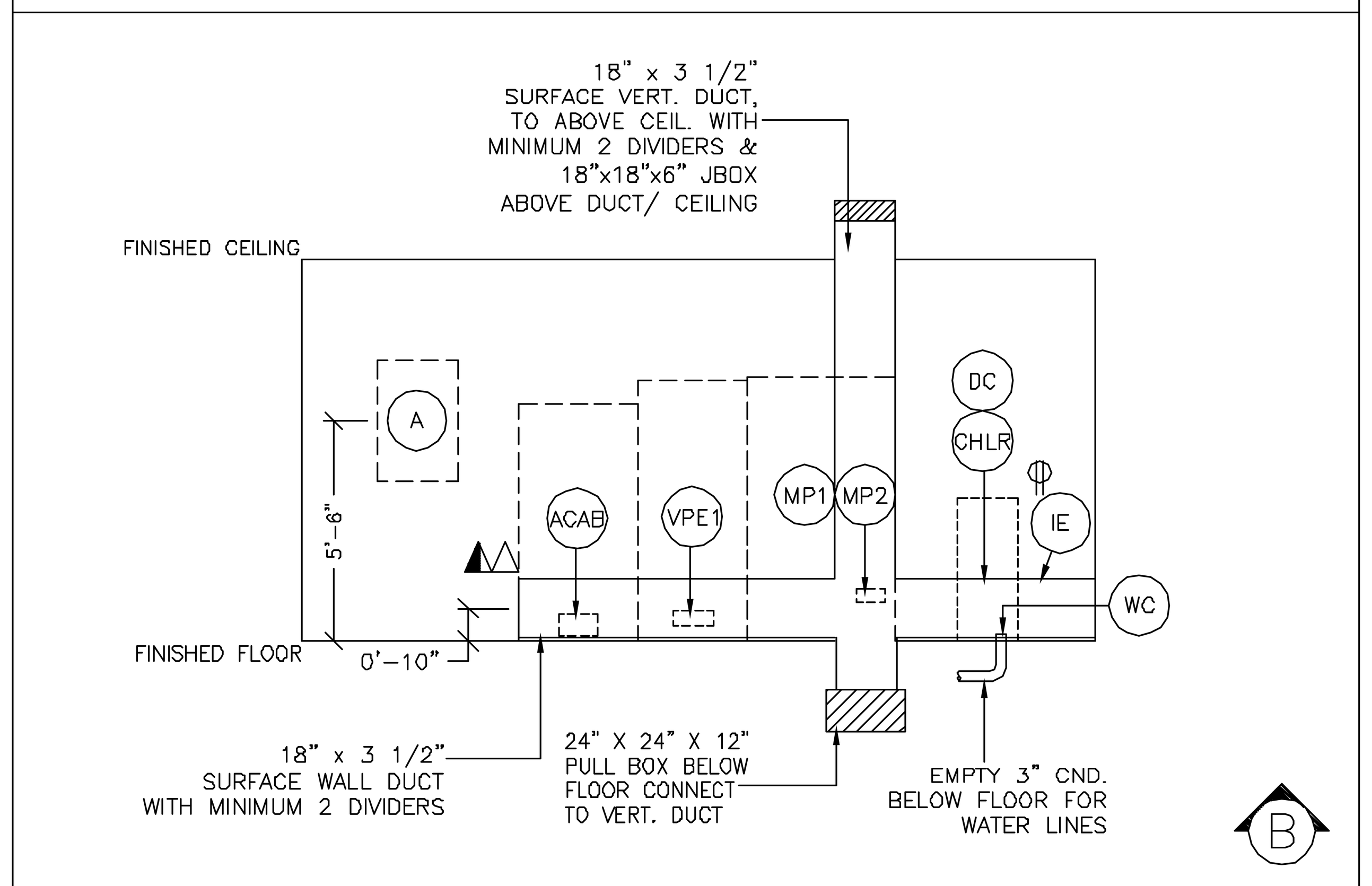
NFSH-1002

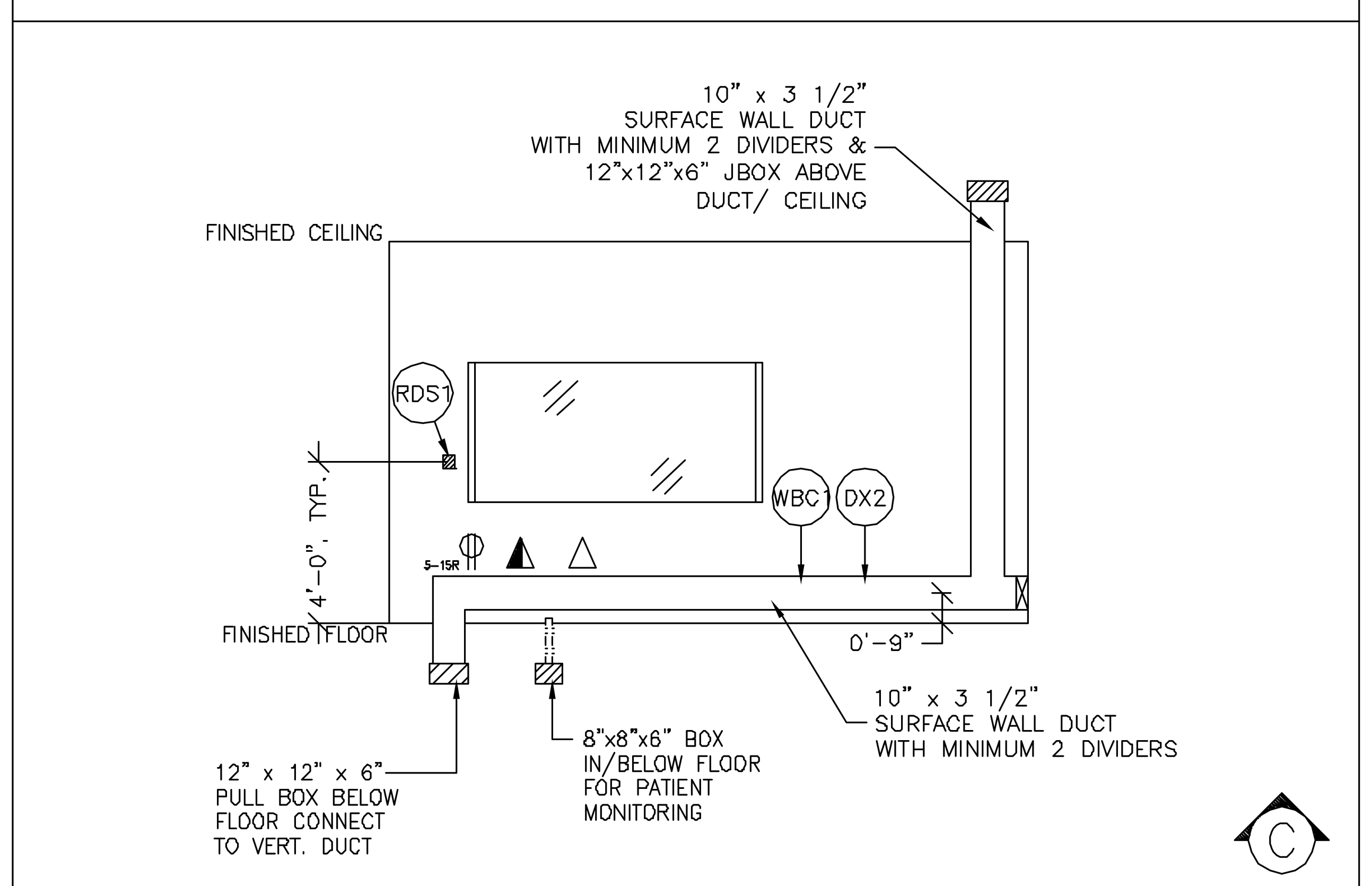
SCALE: 1/4" = 1'-0"

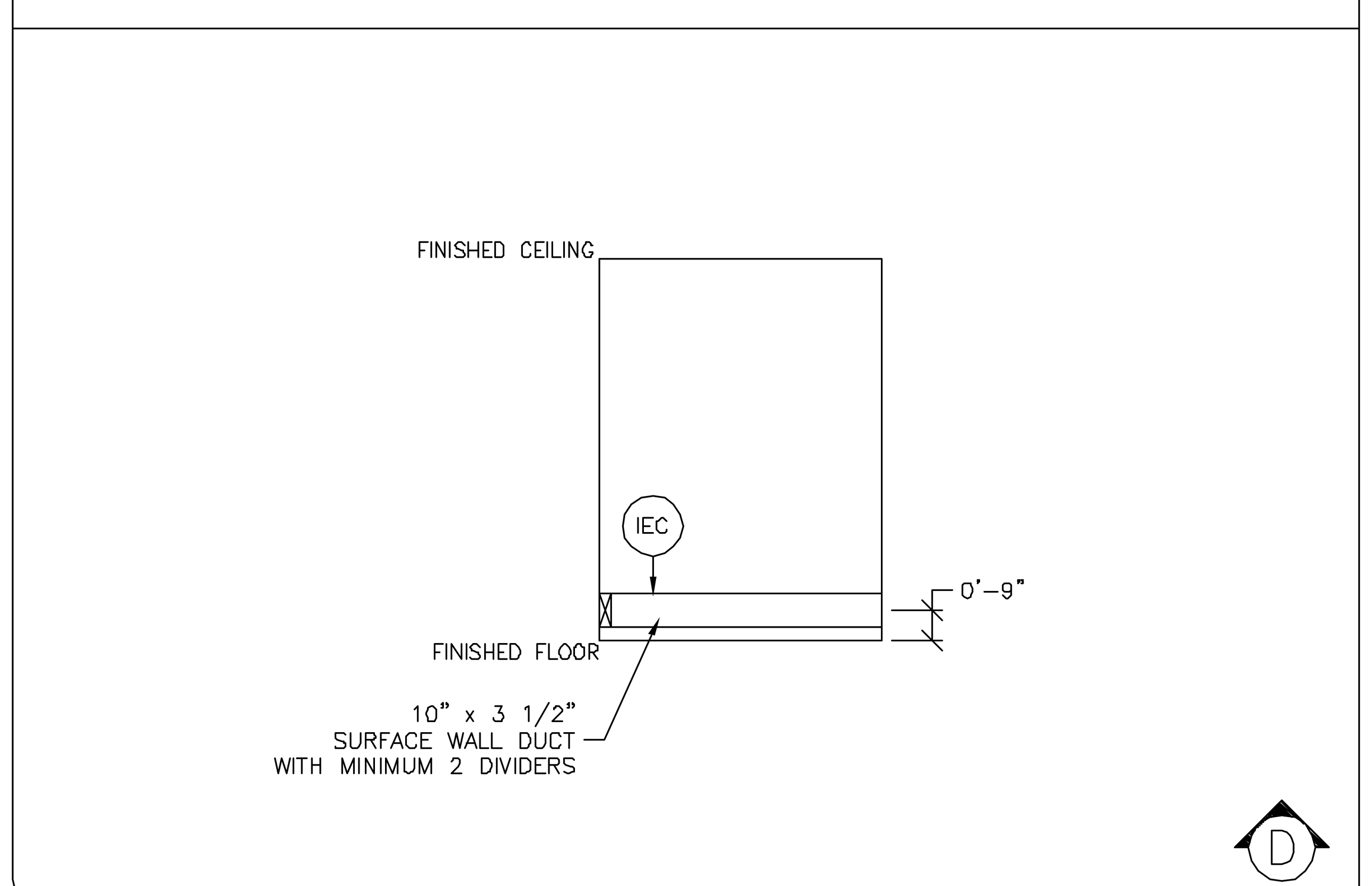
ELECTRICAL PLAN

RECOMMENDED CEILING HEIGHT = 9'-6"









ELECTRICAL OUTLET LEGEND

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

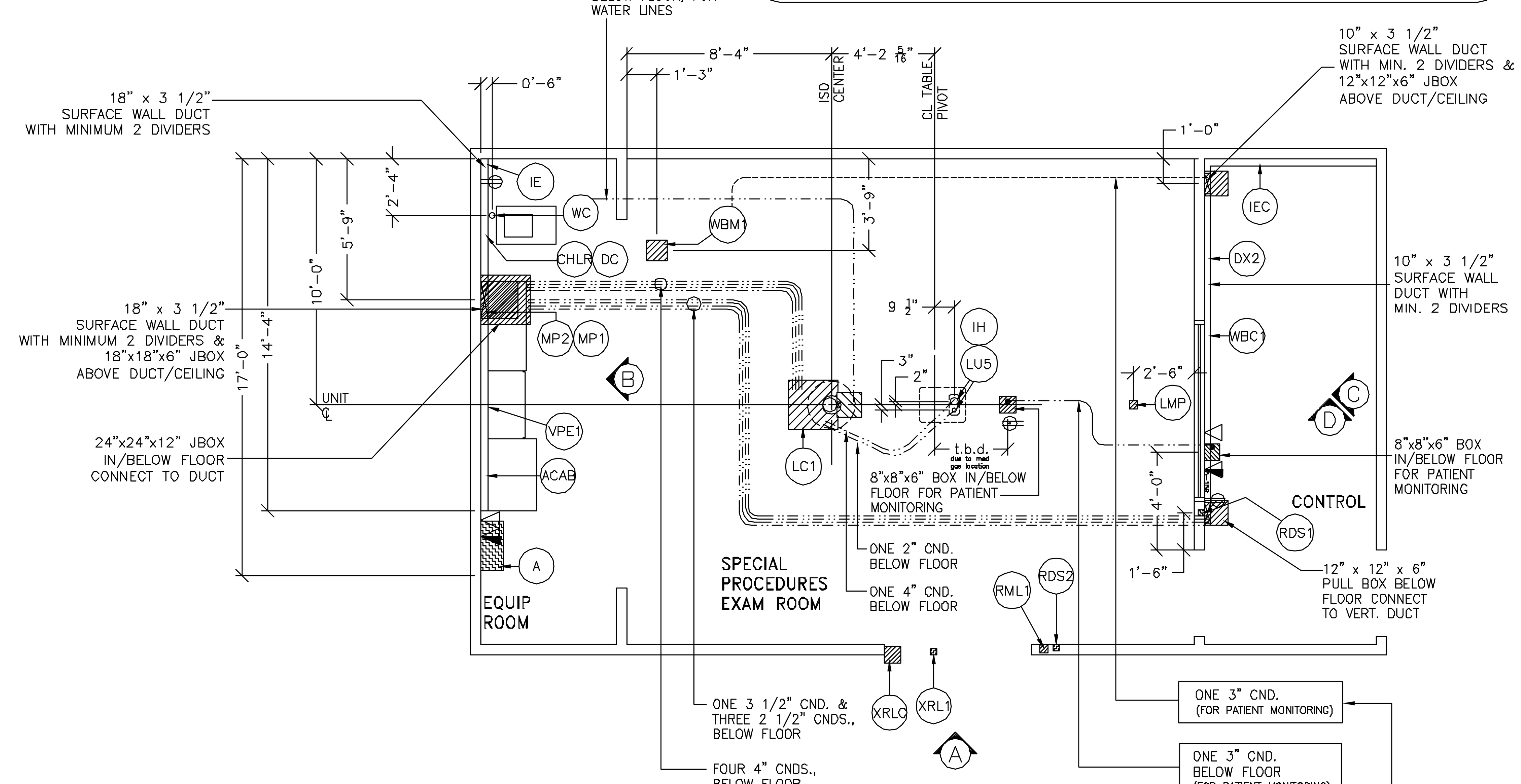
- DUPLEX HOSPITAL GRADE, DEDICATED WALL OUTLET 120-V, SINGLE PHASE POWER
- DEDICATED TELEPHONE LINE(S) (SEE ELECTRICAL DETAIL ELEC-1 OR ELEC-67)
- NETWORK OUTLET (SEE ELECTRICAL DETAILS ELEC-83 AND ELEC-84 OR ELEC-87)
- 5-15R NEMA RECEPTACLE, DEDICATED OUTLET 120-V, SINGLE PHASE POWER
- DUPLEX HOSPITAL 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
- 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:
  1. DUCTWORK SHALL BE METAL WITH DIVIDERS AND HAVE REMOVABLE, ACCESSIBLE COVERS.
  2. DUCTWORK SHALL BE CERTIFIED/RATED FOR ELECTRICAL POWER PURPOSES.
  3. DUCTWORK SHALL BE ELECTRICALLY AND MECHANICALLY BONDED TOGETHER IN AN APPROVED MANNER.
  4. PVC AS A SUBSTITUTE MUST BE USED IN ACCORDANCE WITH ALL LOCAL AND NATIONAL CODES.
- ALL OPENINGS IN ACCESS FLOORING ARE TO BE CUT OUT AND FINISHED OFF WITH GROMMET MATERIAL BY THE 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. NO ALUMINUM OR SOLID WIRES.
- ALL WIRING MUST BE THHN OR TFFN STRANDED COPPER THERMOPLASTIC 600 VOLT OR EQUIVALENT UNLESS OTHERWISE STATED.
- GROUNDING IS CRITICAL TO EQUIPMENT FUNCTION AND PATIENT SAFETY. SITE MUST CONFORM TO WIRING SPECIFICATIONS SHOWN ON THIS PLAN.



ONE 3" CND. (FOR PATIENT MONITORING)

ONE 3" CND. BELOW FLOOR (FOR PATIENT MONITORING)

CONDUIT IS FOR PHYSIOLOGICAL MONITORING EQUIPMENT. CONFIRM EXACT LOCATION WITH EQUIPMENT SUPPLIER. CONSULT MANUFACTURER SPECIFICATION FOR USABLE CABLE LENGTH.

NOTE:
REFER TO CONDUIT LEGEND FOR ALL ADDITIONAL CONDUITS NOT SHOWN ON DRAWING.

ADDITIONAL CONDUIT RUNS FOR INNOVA 2000 SYSTEMS

CONDUITS REQUIRED FROM POINT "XRLC"
XRLC TO XRL1 = ONE 1/2" CND.
XRLC TO RML1 = ONE 1/2" CND.
XRLC TO VPE1 = ONE 1/2" CND.
XRLC TO 120-V 1 PHASE POWER CONDUIT AS REQUIRED

CONDUITS REQUIRED FROM POINT "WBM1"
WBM1 TO ACAB = TWO 2 1/2" CND.

CONDUITS REQUIRED FROM POINT "LMP"
LMP TO 120-V 1 PHASE POWER CONDUIT AS REQUIRED

CONDUITS REQUIRED FROM POINT "A"
A TO RDS1 = ONE 1/2" CND.
A TO RDS2 = ONE 1/2" CND.
A TO MP2 = ONE CND. AS REQ'D. FOR TWO CUSTOMER SUPPLIED POWER/GROUND RUNS.
A TO ACAB = ONE 1" CND. FOR ONE GE SUPPLIED SIGNAL CABLES
A TO 480-V 3 PHASE POWER CONDUIT AS REQUIRED

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

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

FEEDER TABLE

REV. DATE: 02/26/06

- CALCULATIONS BASED UPON NOMINAL VOLTAGE, WIRE SIZE IN AWG.
- RECOMMENDED FEEDER SIZES FROM DIST. TRANS. TO ROOM DISCONNECT. CALCULATIONS ARE AT NOMINAL VOLTAGE BASED UPON MAXIMUM 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 OF SAME SIZE AS THE FEEDER WIRES. THIS GROUND WILL RUN FROM THE EQUIPMENT BACK TO THE FACILITY POWER SOURCE/MAIN GROUNDING POINT AND ALWAYS TRAVEL IN THE SAME CONDUIT WITH THE FEEDERS AND NEUTRAL.
- * MINIMUM WIRE SIZE FOR CIRCUIT BREAKER, BASED ON RECOMMENDED OVERCURRENT PROTECTION.
- FOR A FULL SYSTEM UPS, REFER TO ELECTRICAL DETAILS FOR UPS FEEDER WIRES.

RUN LENGTH IN FEET	POWER SUPPLY VOLTAGE 324-396 360	342-418 380	360-440 400	378-462 420	396-484 440	414-506 460	432-528 480
	SIZE OF FEEDERS AND GROUND WIRES (AWG)						
50	*1/0	*1/0	*1/0	*1/0	*1/0	*1/0	*1/0
100	*1/0	*1/0	*1/0	*1/0	*1/0	*1/0	*1/0
150	3/0	2/0	2/0	1/0	1/0	*1/0	*1/0
200	4/0	4/0	3/0	3/0	2/0	2/0	1/0
250	300M	300M	250M	4/0	3/0	3/0	3/0
300	400M	350M	300M	250M	4/0	4/0	4/0
350	600M	500M	400M	350M	300M	250M	4/0
400	700M	600M	500M	400M	350M	300M	300M

CONDUITS REQUIRED FOR MAC LAB
PC/IVUS TO WBM1 = ONE 3" CND.
PC/IVUS TO TRAM = ONE 3 1/2" CND.

CONDUITS REQUIRED FOR CARDIO LAB
PC/IVUS TO WBM1 = ONE 3" CND.
PC TO TRAM = ONE 3" CND.
IVUS TO TRAM = ONE 3" CND.

CONDUITS REQUIRED FOR COMBO LAB
PC TO WBM1 = ONE 3" CND.
PC TO TRAM/AMP = ONE 3" CND.
PC TO RMOT = ONE 3" CND.
IVUS TO TRAM/AMP = ONE 3" CND.

CONDUITS REQUIRED FOR GENERIC PHYSIO
PC/IVUS TO WBM1 = ONE 3" CND.
PC TO TRAM = ONE 3" CND.
IVUS TO TRAM = ONE 3" CND.

JUNCTION POINT DESCRIPTIONS

THE FOLLOWING MATERIALS ARE TO BE SUPPLIED AND INSTALLED BY THE CUSTOMER'S ELECTRICAL CONTRACTOR

POINT	DESCRIPTION	QTY.	HARDWARE	DETAIL NO., SHT. E3
A	MAIN DISCONNECT *AVAILABLE FROM GE CALL: 800-558-5102 OR LOCAL GE INSTALLATION PROJECT MGR.	1	INNOVA 150-AMP CIRCUIT BREAKER AND DISTRIBUTION PANEL. GEMS CAT. NO. E4502K TWO EMERGENCY OFF PUSHBUTTON STATIONS ARE INCLUDED.	ELEC-103
ACAB	ATLAS CABINET	1	32 IN. OF GROMMET MATERIAL FOR AN 8 X 8 IN. OPENING IN DUCT COVER	ELEC-5 ELEC-6
CHLR	RECIRCULATING WATER CHILLER	1	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
DX2	DLX CONTROL	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	
LC1	INNOVA LC	1 1 4 4 1 1 2 1	GE SUPPLIED FITTING 12 X 12 X 6 IN. BOX 1 IN. DIA. LOCKNUT 1 IN. DIA. BUSHING 24 X 24 X 12 IN. BOX SUITABLE LENGTH OF 6 IN. DIA. THREADED CONDUIT OR PIPE 6 IN. DIA. LOCKNUTS 6 IN. DIA. BUSHING	ELEC-100
LMP	SURGICAL LAMP	1 1 1	COVERPLATE 4 X 4 X 4 IN. BOX 1/2 IN. DIA. CHASE NIPPLE	ELEC-8
LU5	OMEGA TABLE	1 2 2	12 X 1X 1/2 IN. GROUND BAR WITH 1/4 IN. MIN. MACHINE SCREWS. 2 IN. DIA. BUSHING & LOCKNUT 4 IN. DIA. BUSHING & LOCKNUT	ELEC-9
MP1	ADVANTX GENERATOR	1	LOCATED WITHIN 'MP2'	
MP2	POWER UNIT	1	32 IN. OF GROMMET MATERIAL FOR AN 8 X 8 IN. OPENING IN DUCT COVER	ELEC-5 ELEC-6 ELEC-2
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 1 1	COVERPLATE SINGLE GANG BOX *E4500SS 24V X-RAY ROOM WARNING LIGHT AND ROOM LIGHT CONTROLLER OR EQUIVALENT.	ELEC-17
VPE1	POSITIONER CABINET	1	32 IN. OF GROMMET MATERIAL FOR AN 8 X 8 IN. OPENING IN DUCT COVER	ELEC-5 ELEC-6
WBC1	ADVANTX CONSOLE	1	GE FURNISHED COVERPLATE	ELEC-4
WBM1	TV MONITOR	1 2 1	10 X 10 X 6 IN. FLUSH CEILING BOX 2 1/2 IN. DIA. CHASE NIPPLE COVERPLATE	ELEC-8
WC	WATER CHILLER HOSE OUTLET	1	3 IN. CONDUIT STUBBED 2 IN. ABOVE FLOOR	ELEC-9
XRL1	WARNING LIGHT	1 1 1	COVERPLATE SINGLE GANG BOX 'X-RAY ON' INCANDESCENT LIGHT FIXTURE - DO NOT USE FLUORESCENT FIXTURES.	ELEC-17
XRLC	WARNING LIGHT CONTROLLER *AVAILABLE FROM GEHC, CALL: 800-558-5102 OR LOCAL GE INSTALLATION PROJECT MGR.	1	E4500SS WARNING LIGHT & ROOM LIGHT CONTROL OR EQUIVALENT MAX 24V CONTROLLER	ELEC-17

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
A > MP2	3-BLACK, 1-WHITE, 1-GREEN - REFER TO FEEDER TABLE
A > RDS2	1-NO. 14 BLACK, 1-NO. 14 WHITE, 1-NO. 14 GREEN
XRLC > 1 PHASE	1-NO. 14 BLACK, 1-NO. 14 WHITE, 1-NO. 14 GREEN
A > RDS1	1-NO. 14 BLACK, 1-NO. 14 WHITE, 1-NO. 14 GREEN
3 PHASE > A	3-BLACK, 1-WHITE, 1-GREEN - REFER TO FEEDER TABLE
XRL1 > XRLC	1-NO. 14 BLACK, 1-NO. 14 WHITE, 1-NO. 14 GREEN
120V > LMP	1-NO. 14 BLACK, 1-NO. 14 WHITE, 1-NO. 14 GREEN
120-V > XRLC	1-BLACK, 1-WHITE, 1-GREEN - (SIZE AS REQUIRED)
XRLC > VPE1	1-NO. 14 BLACK, 1-NO. 14 WHITE, 1-NO. 14 GREEN
RML1 > XRLC	1-NO. 14 BLACK, 1-NO. 14 WHITE, 1-NO. 14 GREEN
A > ACAB	2-NO. 10 BLACK, 1-NO. 10 GREEN

GE Healthcare Technologies
Installation Services Design Center
Milwaukee, Wisconsin

SHEET TITLE: ELECTRICAL LAYOUT
MODALITY TYPE: INNOVA 2000

PROJECT TITLE: TYPICAL SPECIAL PROCEDURES 5-80F
TYPICAL INSTALLATION DRAWINGS

PROJECT	REVISION
5-80f	04

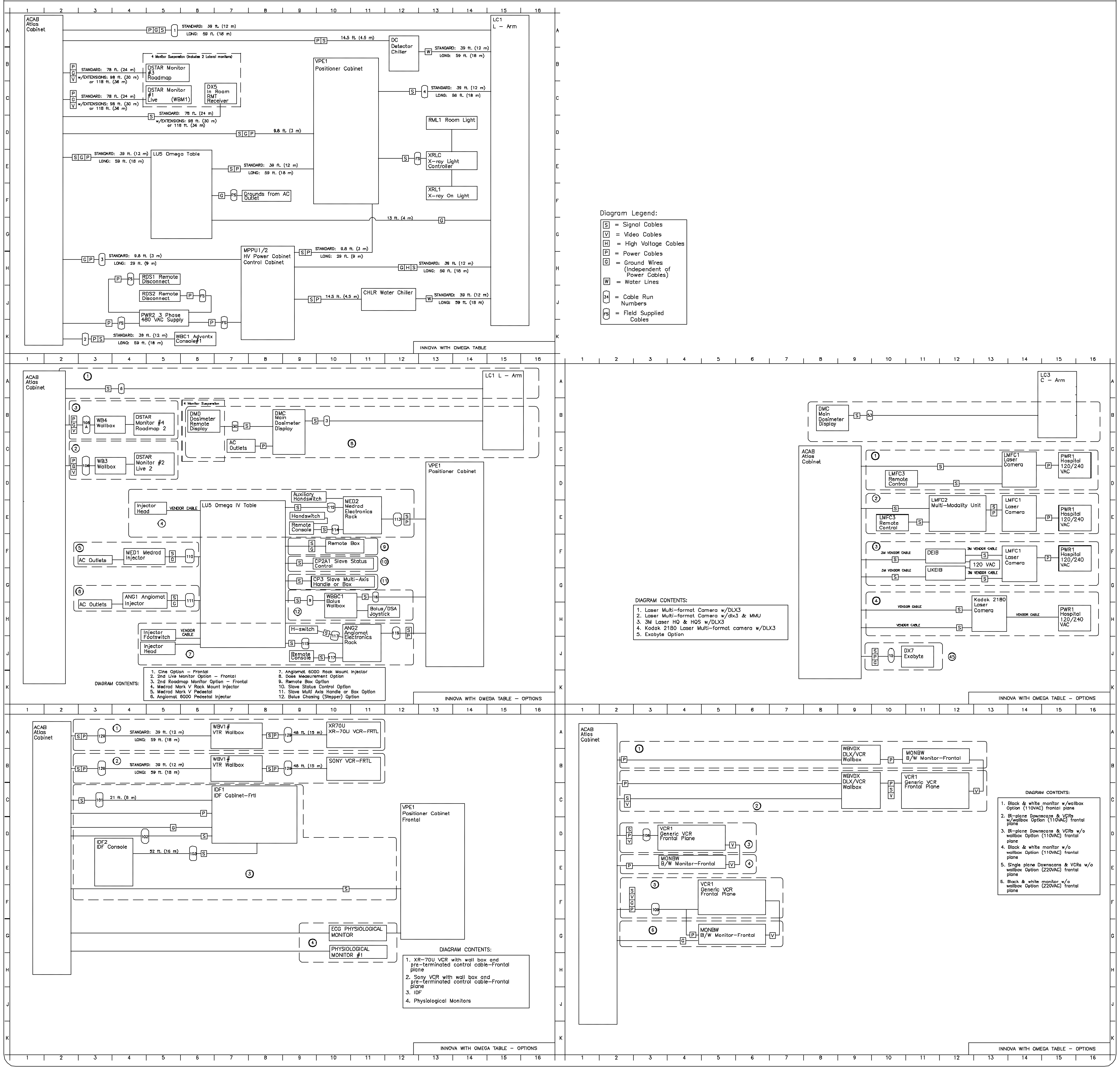
DATE: 10-08-07
DRAWN BY: LLM
CHECKED BY: TST

REVISION HISTORY:

SHEET
E1

NFSH-1002

INTERCONNECT DIAGRAM



POWER SPECIFICATIONS

INNOVA 2000 GENERATOR SYSTEM

REV. DATE: 06/19/06

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	275	32
380	342–418	260	31
400	360–440	247	29
420	378–462	235	28
440	396–484	225	26
460	414–506	215	25
480	432–528	206	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 10 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 STRANDED, FLEXIBLE, THERMO–PLASTIC, COLOR CODED, COPPER ONLY, CUT 10 FOOT LONG AT OUTLET BOXES, DUCT TERMINATION POINTS OR STUBBED CONDUIT ENDS, UNLESS OTHERWISE SPECIFIED. ALL CONDUCTORS, POWER, SIGNAL AND GROUND, MUST BE RUN IN CONDUIT OR DUCT SYSTEM. ELECTRICAL CONTRACTOR SHALL RING OUT AND TAG ALL WIRES AT BOTH ENDS. WIRE RUNS MUST BE CONTINUOUS COPPER AND FREE FROM SPLICES.

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 DISTRITBUTION 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., OTHER THAN SHOWN ON THIS DRAWING 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 A QUALIFIED 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.

GE Healthcare Technologies
Installation Services Design Center
Milwaukee, Wisconsin

SHEET TITLE: ELECTRICAL SPECIFICATIONS
MODALITY TYPE: INNOVA 2000

PROJECT TITLE: TYPICAL SPECIAL PROCEDURES 5–80F
TYPICAL INSTALLATION DRAWINGS

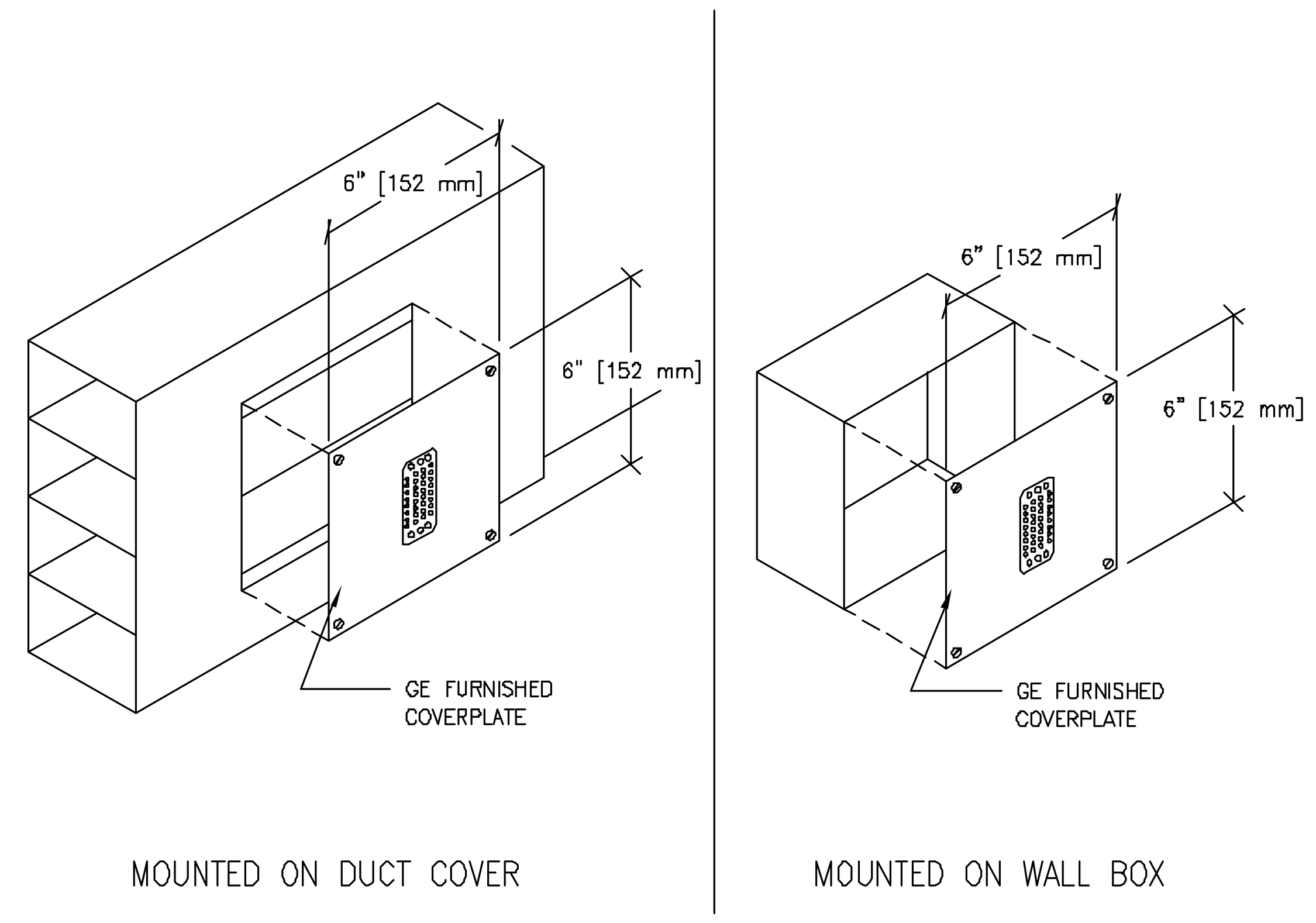
PROJECT	REVISION
5–80f	04

DATE: 10–08–07
DRAWN BY: LLM
CHECKED BY: TST

REVISION HISTORY:

ELECTRICAL DETAIL — REMOVABLE COVERPLATE (TYPICAL)

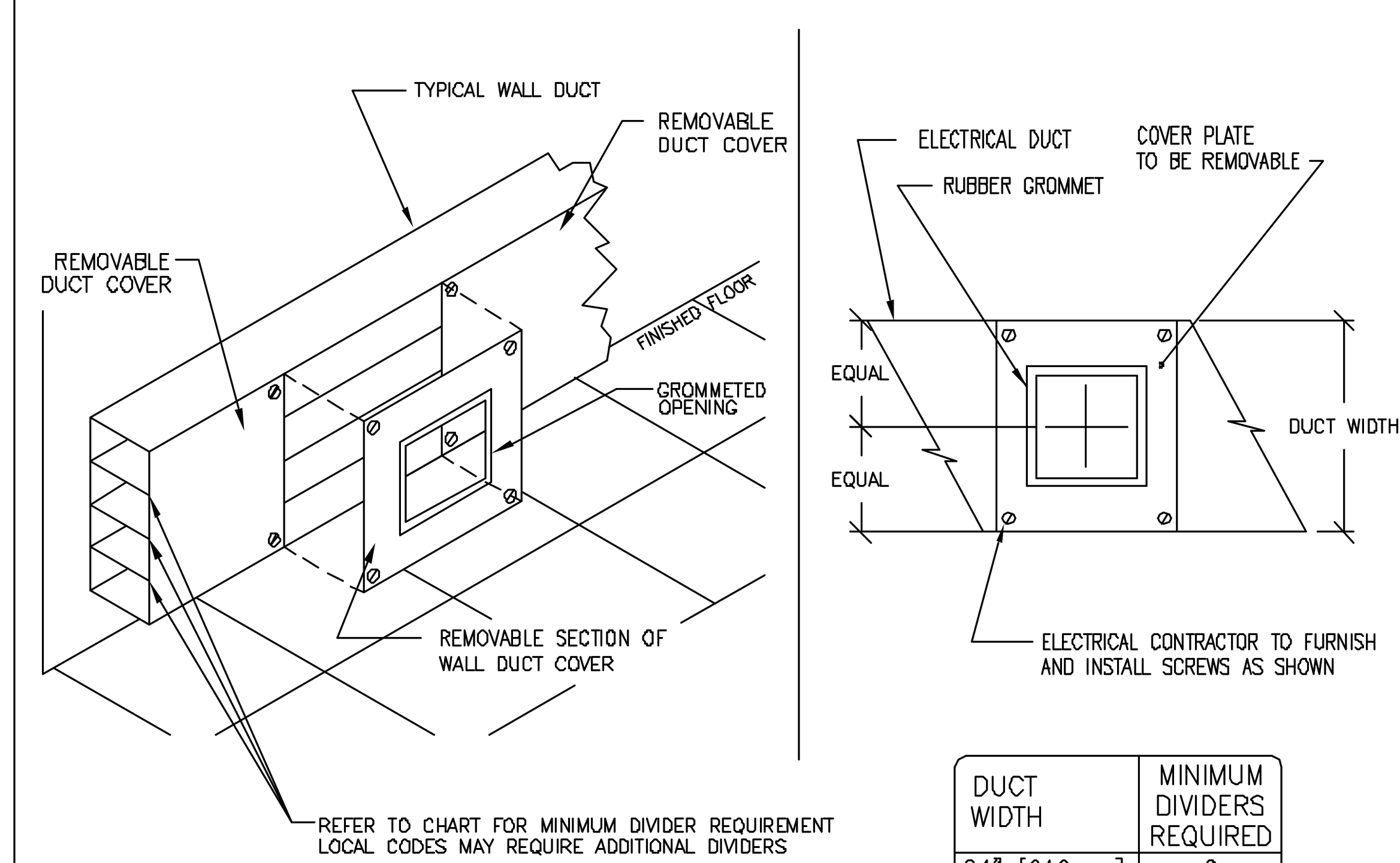
ELEC-4 REV. DATE: 10/20/94



DETAIL NOT TO SCALE

ELECTRICAL DETAIL — HORIZONTAL WALL DUCT (TYPICAL)

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

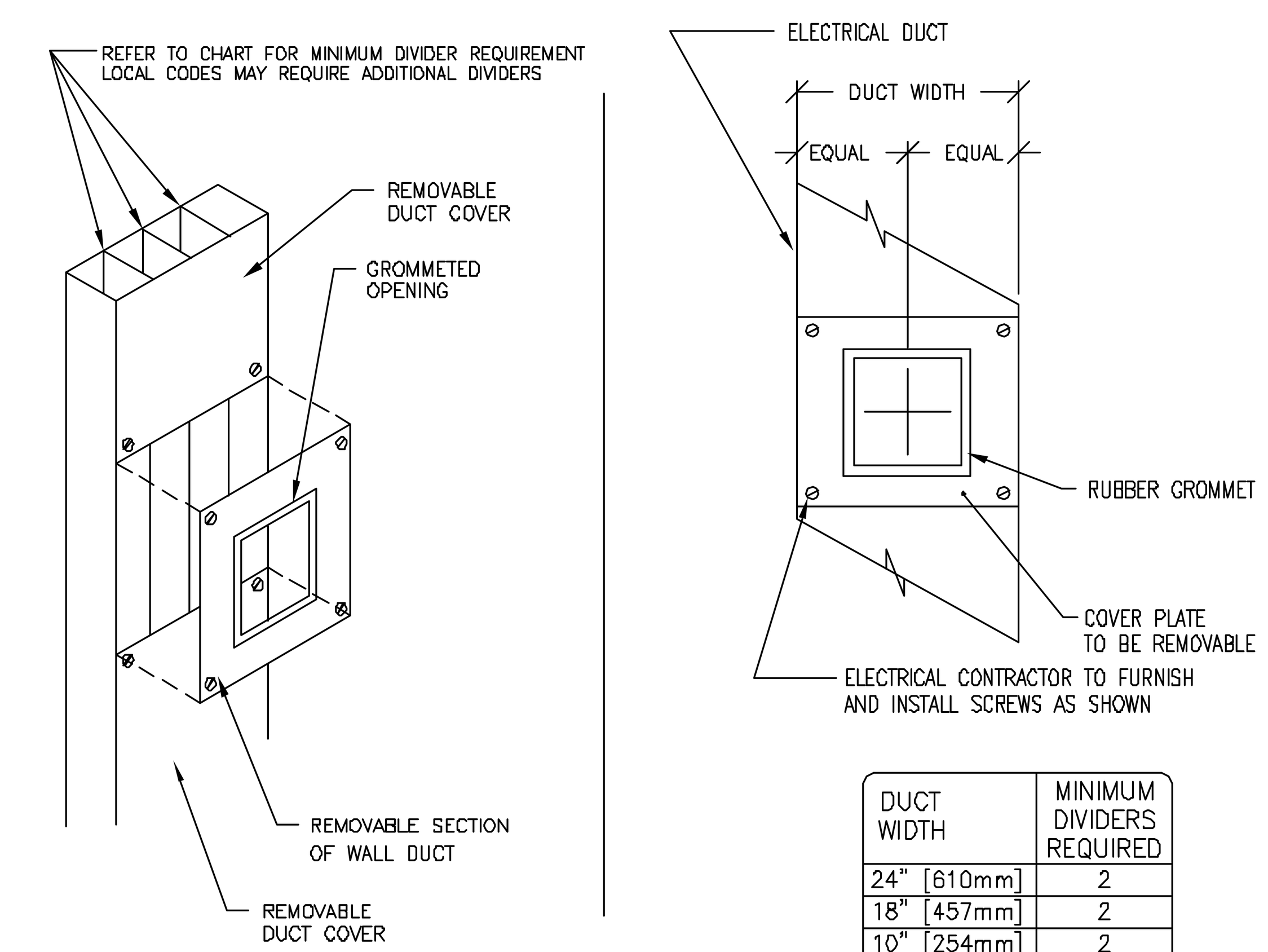


DUCT WIDTH	MINIMUM DIVIDERS REQUIRED
24" [610mm]	2
18" [457mm]	2
10" [254mm]	2
6" [152mm]	1
4" [102mm]	1

DETAIL NOT TO SCALE

ELECTRICAL DETAIL — VERTICAL WALL DUCT (TYPICAL)

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

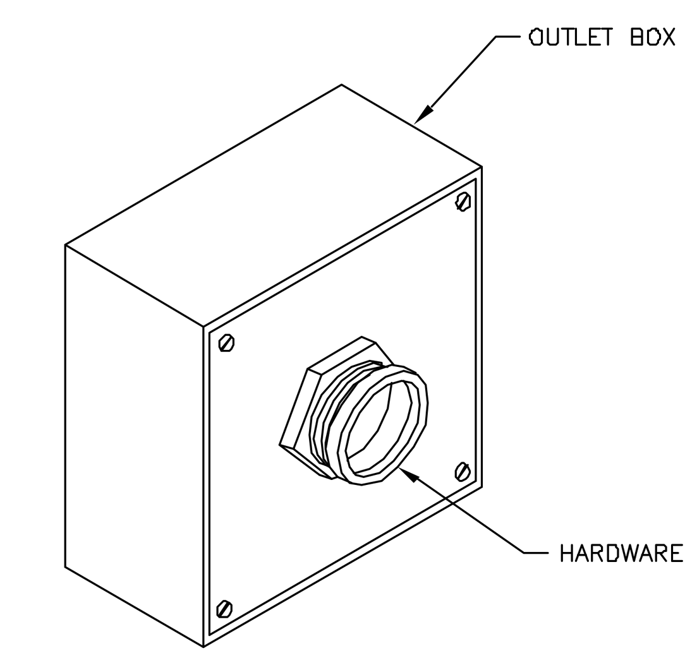


DUCT WIDTH	MINIMUM DIVIDERS REQUIRED
24" [610mm]	2
18" [457mm]	2
10" [254mm]	2
6" [152mm]	1
4" [102mm]	1

DETAIL NOT TO SCALE

ELECTRICAL DETAIL — BOX WITH COVERPLATE (TYPICAL)

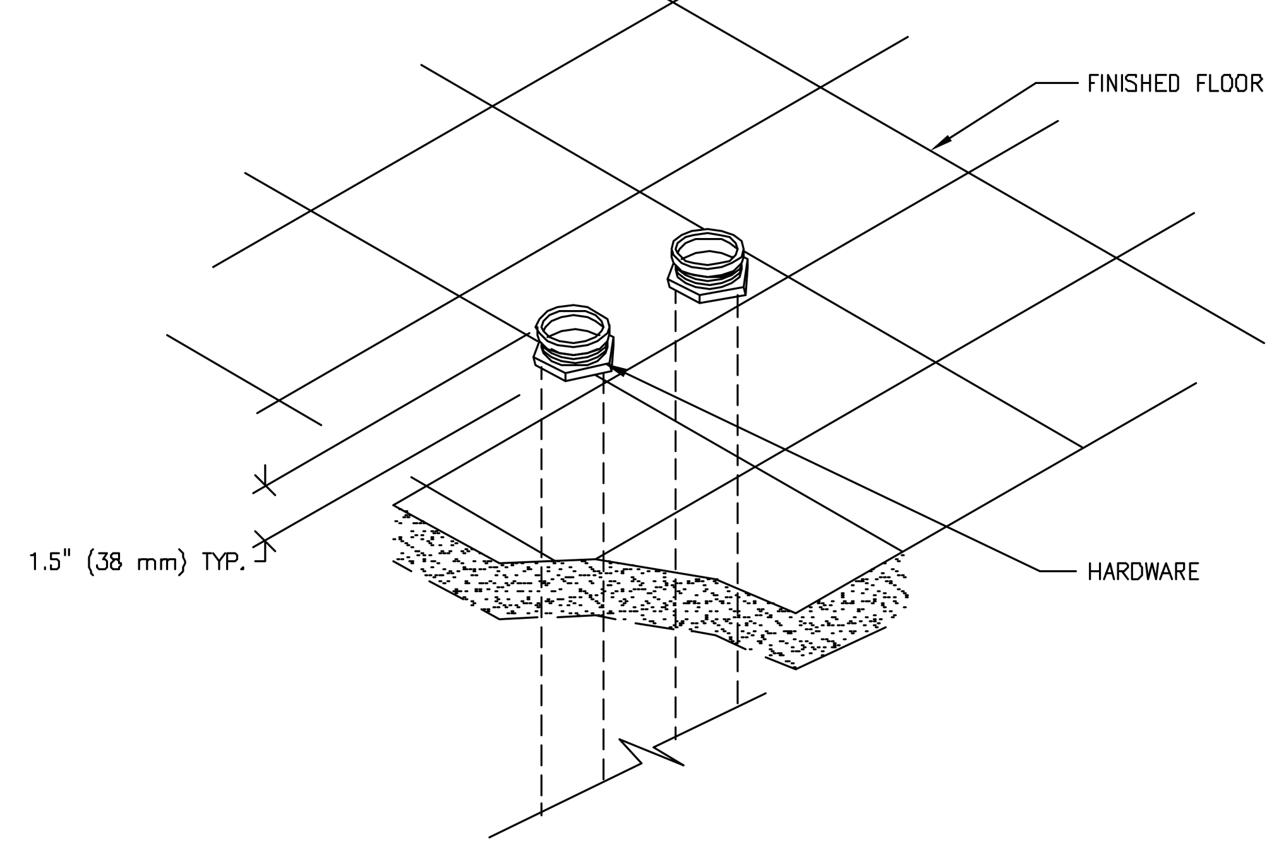
ELEC-8 REV. DATE: 09/30/94



DETAIL NOT TO SCALE

ELECTRICAL DETAIL — CONDUITS THRU-FLOOR (TYPICAL)

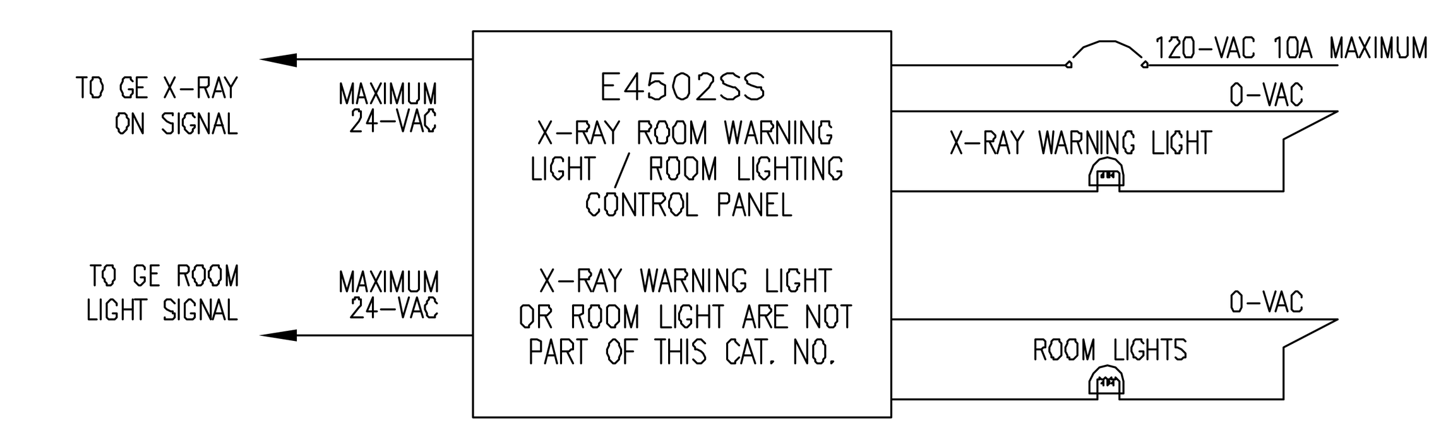
ELEC-9 REV. DATE: 08/08/94



DETAIL NOT TO SCALE

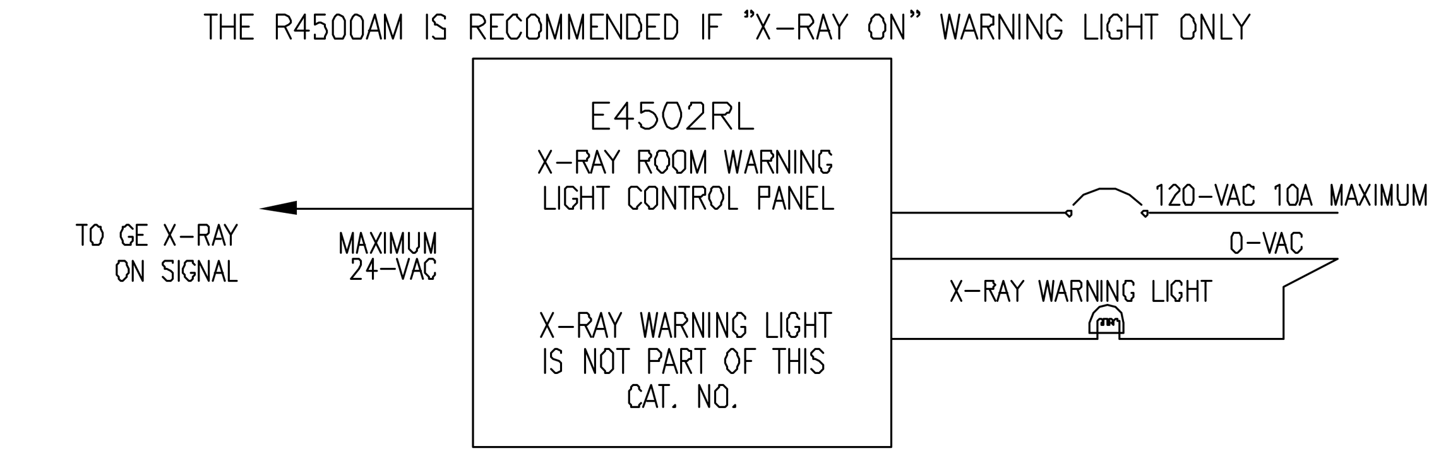
ELECTRICAL DETAIL — X-RAY WARNING LIGHT & ROOM LIGHT CONTROL PANEL

ELEC-17 REV. DATE: 05/09/07



THE R4500AL IS RECOMMENDED IF "X-RAY ON" WARNING LIGHT AND ROOM LIGHT CONTROL ARE UTILIZED

THE R4500AM IS RECOMMENDED IF "X-RAY ON" WARNING LIGHT ONLY

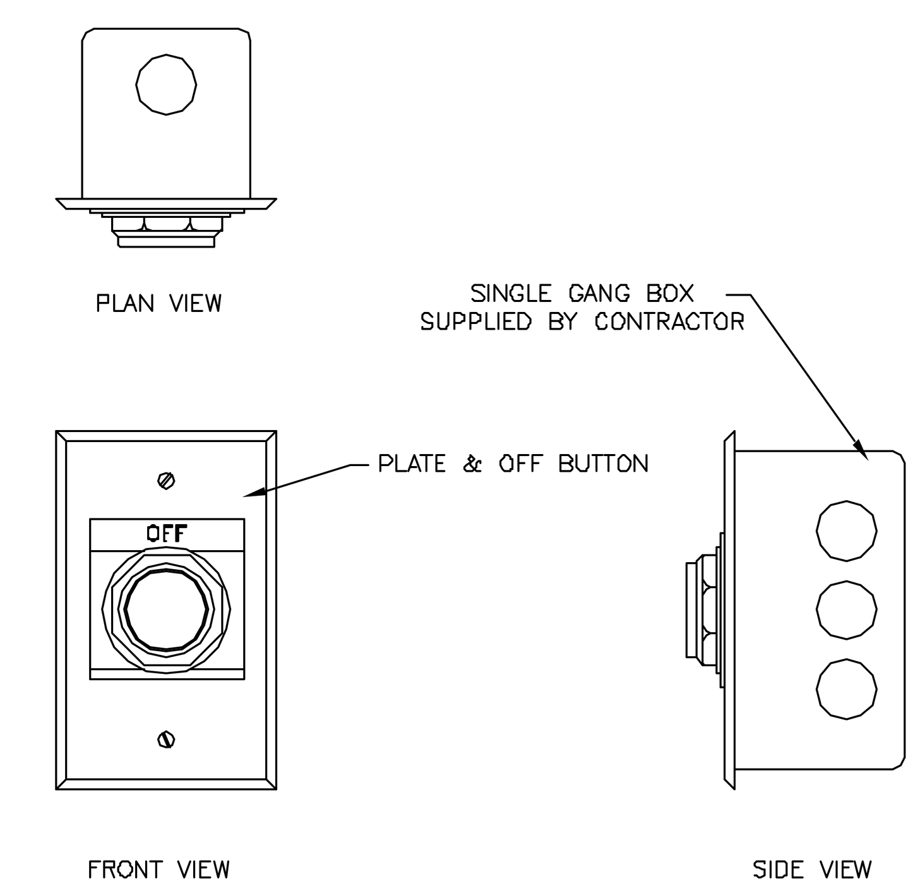


CONTROL PANEL CAN BE LOCATED ABOVE THE CEILING NEAR THE WARNING LIGHT

UNLESS SPECIFIED ON SHEET A1 AS BEING INCLUDED ON EQUIPMENT ORDER, ALL ITEMS ILLUSTRATED ARE TO BE FURNISHED AND INSTALLED BY CUSTOMER'S CONTRACTOR

ELECTRICAL DETAIL — EMERGENCY OFF BUTTON

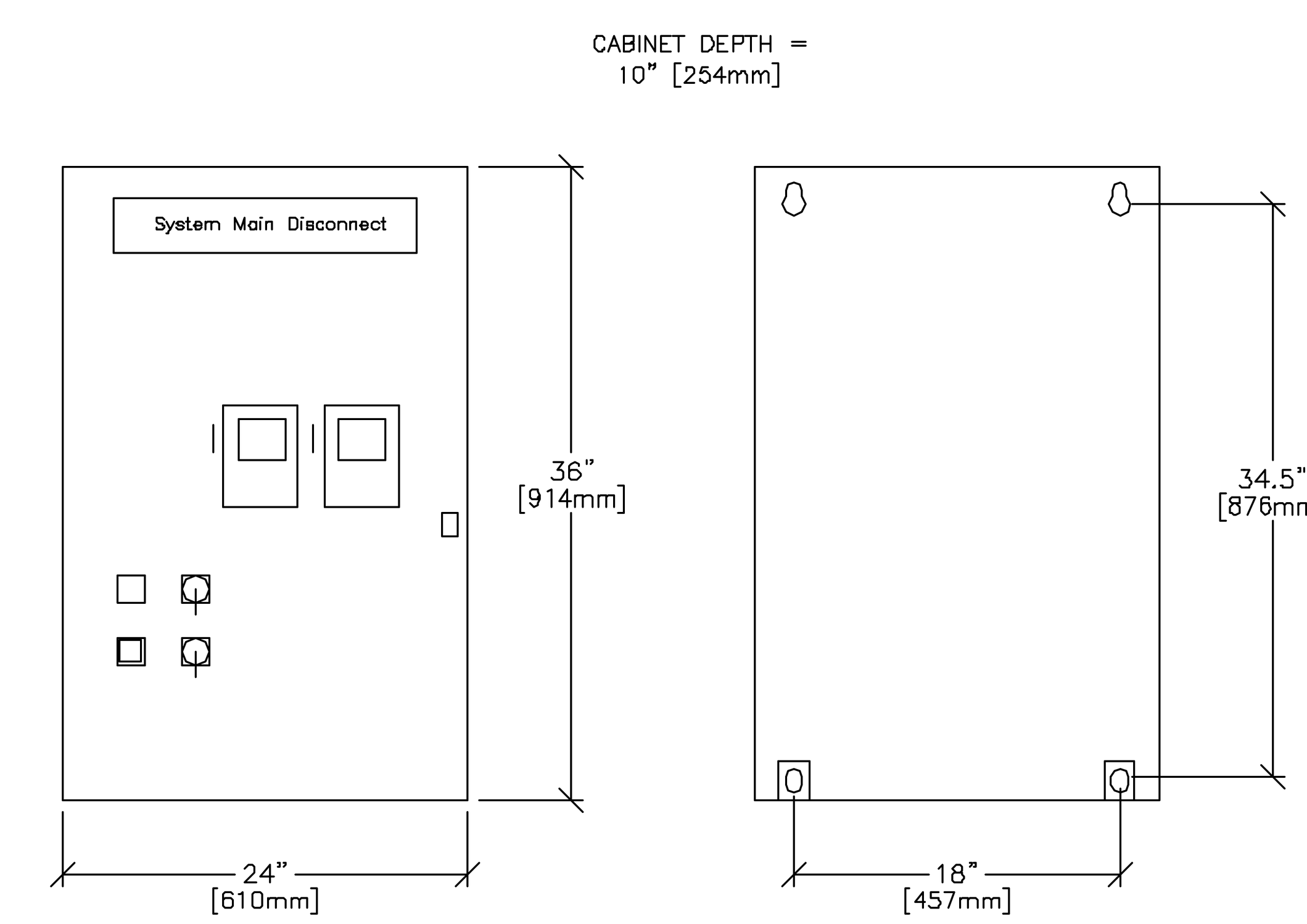
ELEC-16 REV. DATE: 08/22/05



DETAIL NOT TO SCALE

ELECTRICAL DETAIL — INNOVA MAIN DISCONNECT PANEL

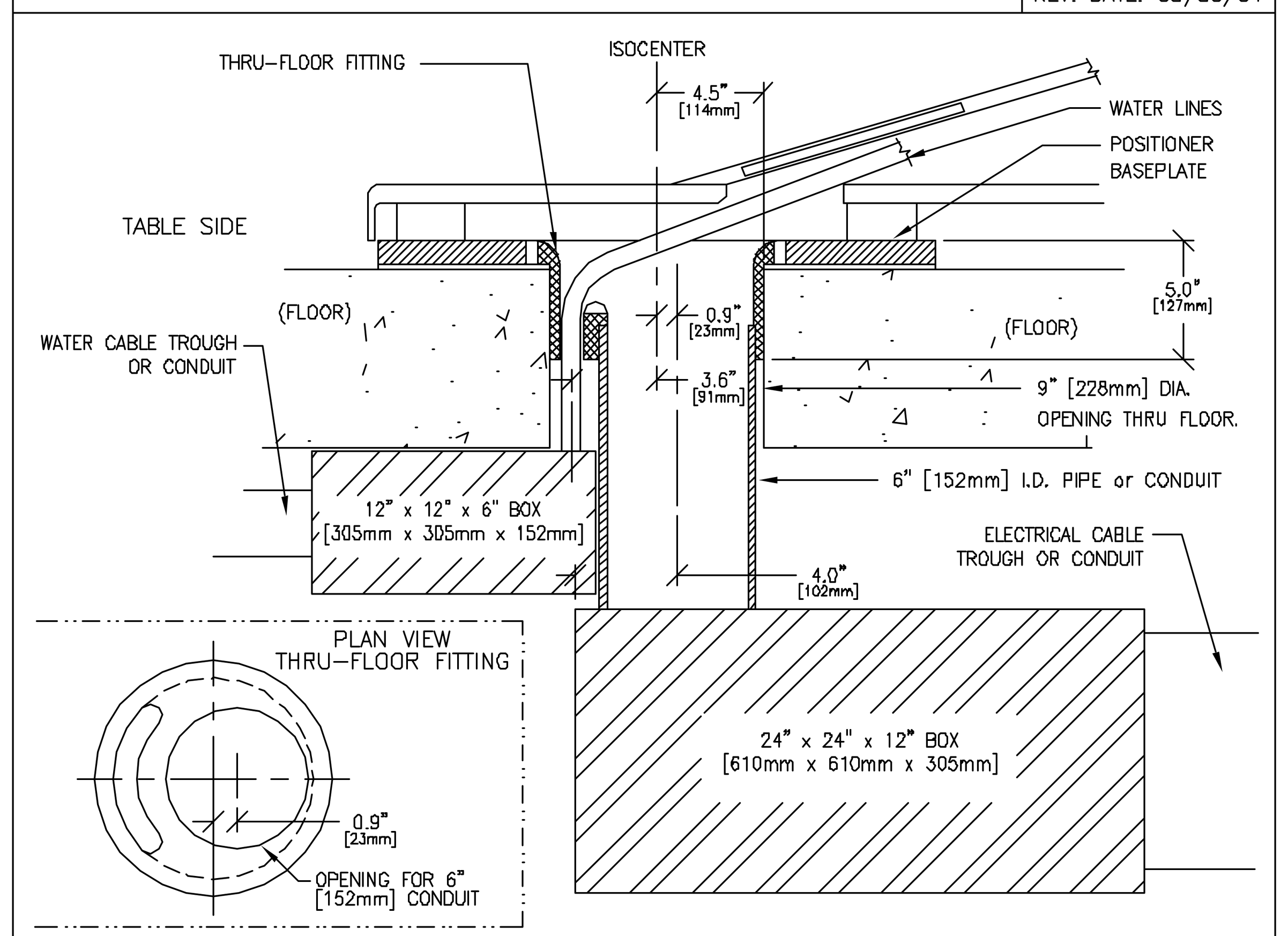
ELEC-103 REV. DATE: 9/24/03



DETAIL NOT TO SCALE

ELECTRICAL DETAIL — POSITIONER INTERCONNECT DETAIL, UNDER FLOOR

ELEC-100 REV. DATE: 03/30/04



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

DETAIL NOT TO SCALE

ELECTRICAL DETAIL — INSITE CONNECTION (TYPICAL)

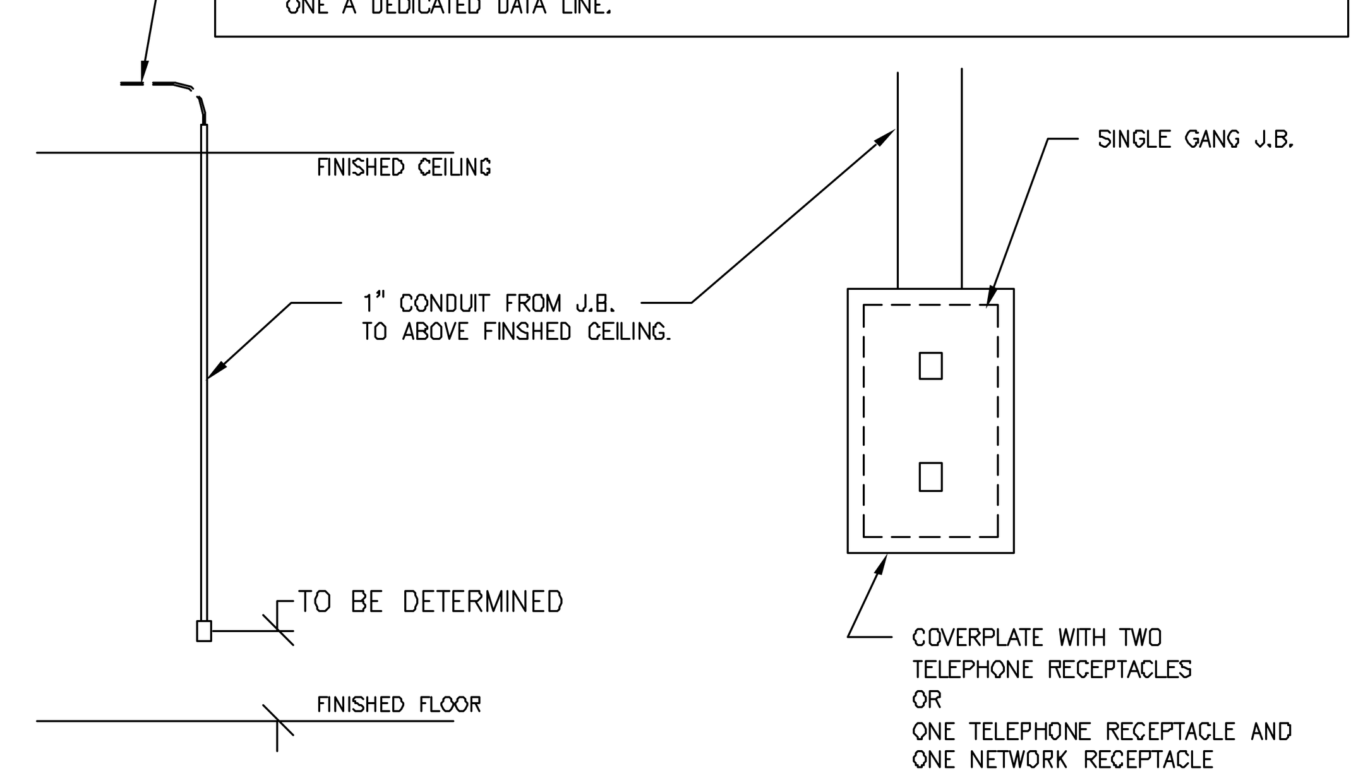
ELEC-1 REV. DATE: 04/24/02

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.

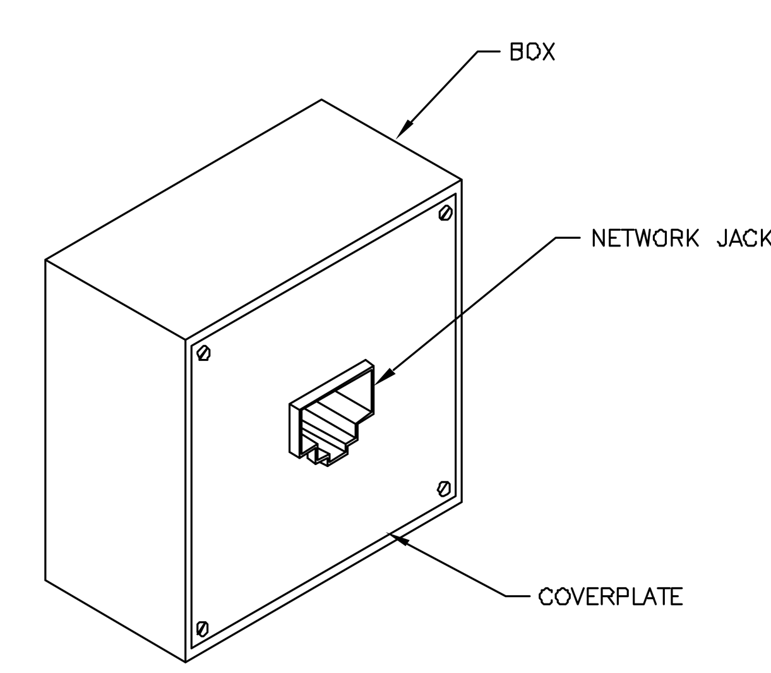


ALL ITEMS ILLUSTRATED ARE TO BE FURNISHED AND INSTALLED BY CUSTOMER OR THEIR CONTRACTOR.

DETAIL NOT TO SCALE

ELECTRICAL DETAIL — BOX WITH COVERPLATE AND NETWORK JACK

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

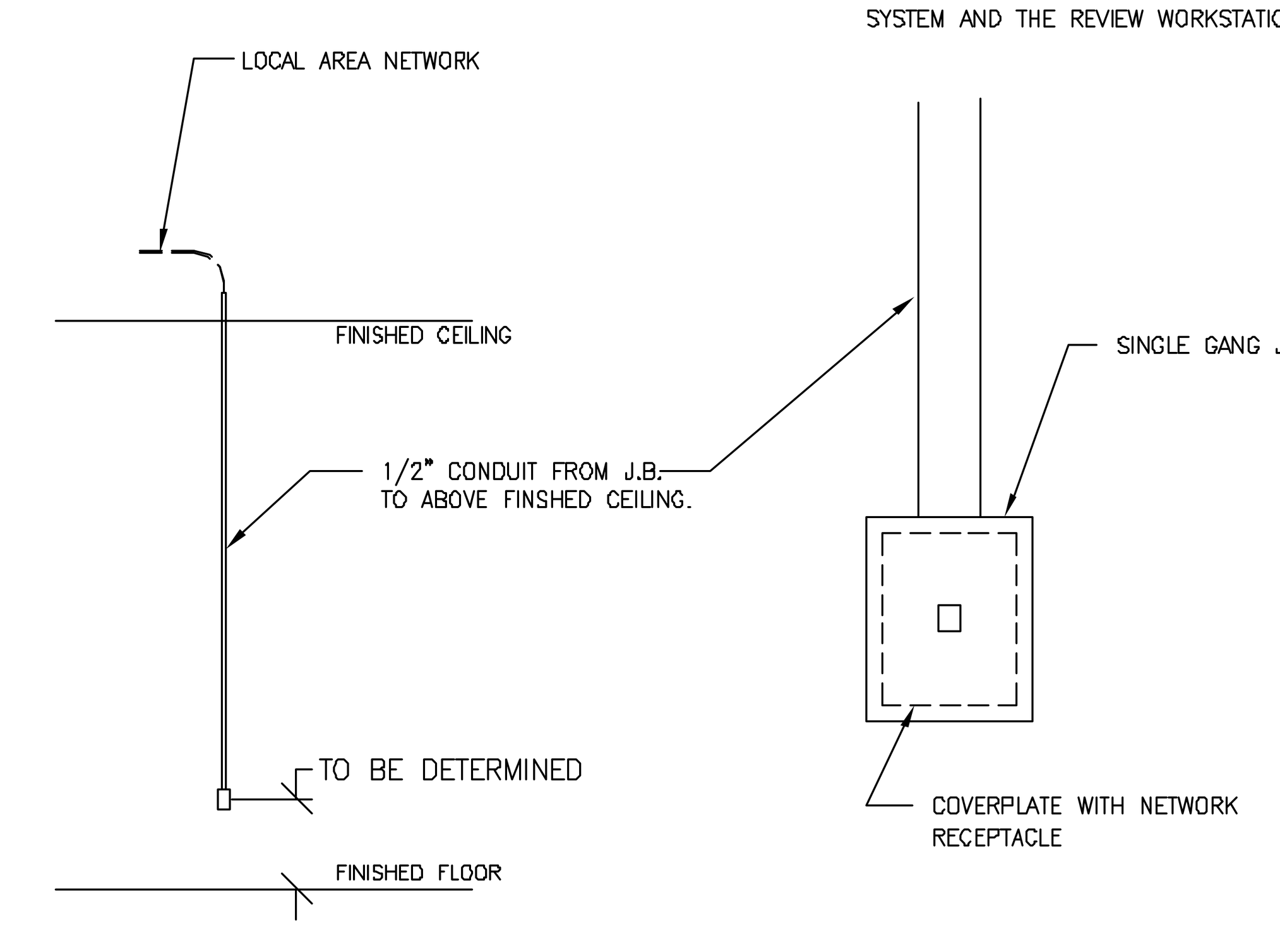


DETAIL NOT TO SCALE

ELECTRICAL DETAIL — NETWORK CONNECTION (TYPICAL)

ELEC-84 REV. DATE: 03/06/04

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



DETAIL NOT TO SCALE

GE Healthcare Technologies
Installation Services Design Center
Milwaukee, Wisconsin

SHEET TITLE: ELECTRICAL DETAILS
MODALITY TYPE: INNOVA 2000

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 ACTUAL EQUIPMENT EXPECTED TO BE INSTALLED. IT IS NOT TO BE USED FOR ACTUAL CONSTRUCTION PURPOSES, HOWEVER, AND THE COMPANY CANNOT ACCEPT RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE: TYPICAL SPECIAL PROCEDURES 5-80F
TYPICAL INSTALLATION DRAWINGS

PROJECT	REVISION
5-80f	04

DATE: 10-08-07
DRAWN BY: LLM
CHECKED BY: TST

REVISION HISTORY:

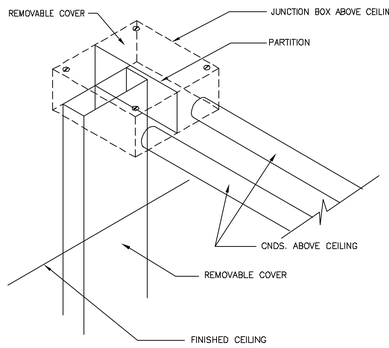
SHEET E3

NFSH-1002

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

ELEC-2

REV. DATE: 09/30/94



DETAIL NOT TO SCALE

GE Healthcare Technologies

Installation Services Design Center

Wisconsin

Milwaukee,

SHEET TITLE: ELECTRICAL DETAILS

MODALITY TYPE: INNOVA 2000

PROJECT TITLE:

TYPICAL SPECIAL PROCEDURES 5-80F

TYPICAL INSTALLATION DRAWINGS

PROJECT	REVISION
5-80f	04

DATE: 10-08-07

DRAWN BY: LLM

CHECKED BY: TST

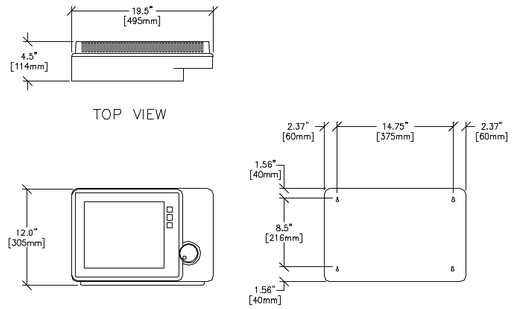
REVISION HISTORY:

SHEET

E4

EQUIPMENT DETAIL — CONTROL CONSOLE — A80066

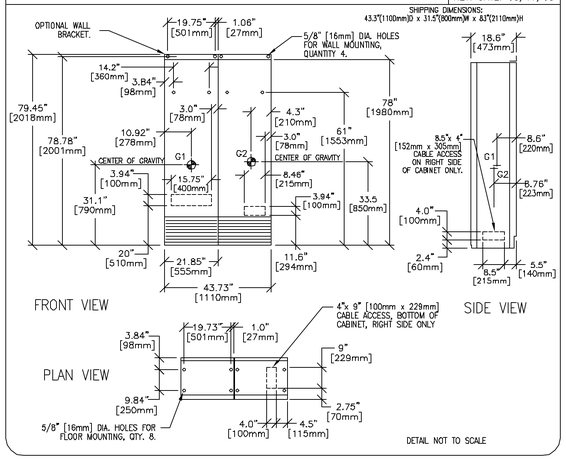
REV. DATE: 03/10/99



DRAWING NOT TO SCALE

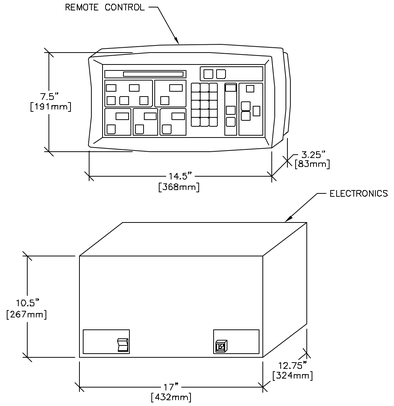
EQUIPMENT DETAIL — ADVANTX VMP GENERATOR CABINET — A0721

REV. DATE: 05/17/05



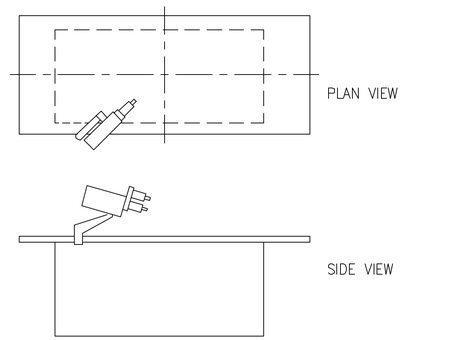
DETAIL NOT TO SCALE

EQUIPMENT DETAIL — INJECTOR REMOTE CONTROL AND ELECTRONICS — B50-28



DRAWING NOT TO SCALE

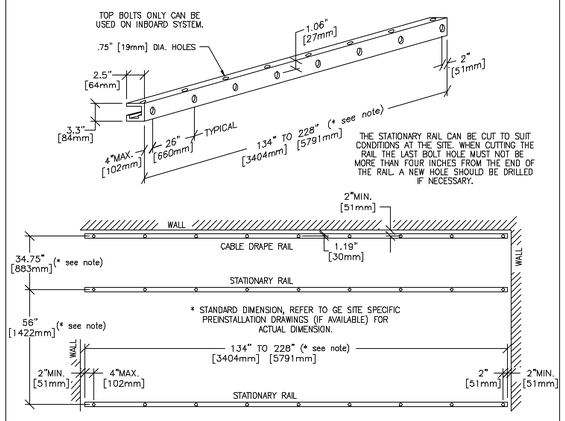
EQUIPMENT DETAIL — INJECTOR ON TABLE RAIL — B50-30A



DRAWING NOT TO SCALE

EQUIPMENT DETAIL — XT RADIOGRAPHIC SUSPENSION, INBOARD MOUNTING — B2004

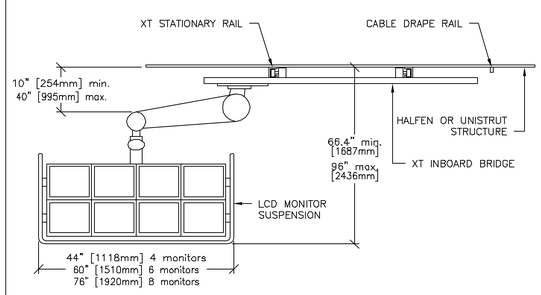
REV. DATE: 12/07/94



DETAIL NOT TO SCALE

EQUIPMENT DETAIL — LCD MONITOR SUSPENSION, 4, 6 OR 8 MONITORS — B2010A

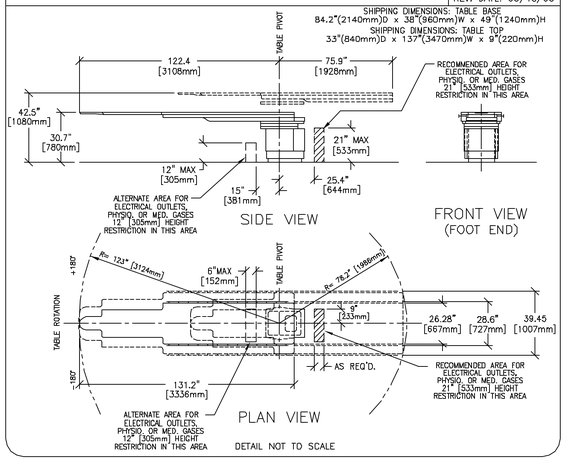
REV. DATE: 12/16/03



DETAIL NOT TO SCALE

EQUIPMENT DETAIL — OMEGA IV ANGIO/V LONG VASCULAR TABLE/STEPPING TOP — B5037

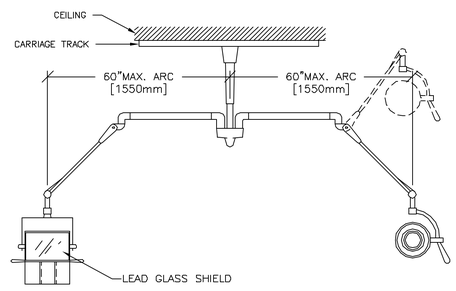
REV. DATE: 05/18/05



DETAIL NOT TO SCALE

EQUIPMENT DETAIL — AADCO EYE & THYROID SHIELD WITH LAMP — B20-64

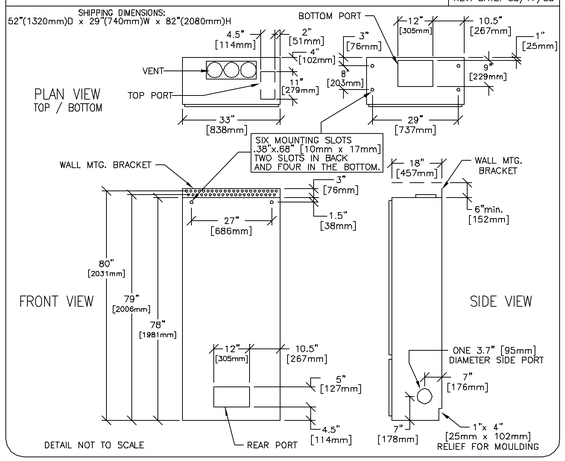
REV. DATE: 05/08/01



DETAIL NOT TO SCALE

EQUIPMENT DETAIL — INNOVA POSITIONER CABINET — B5049E

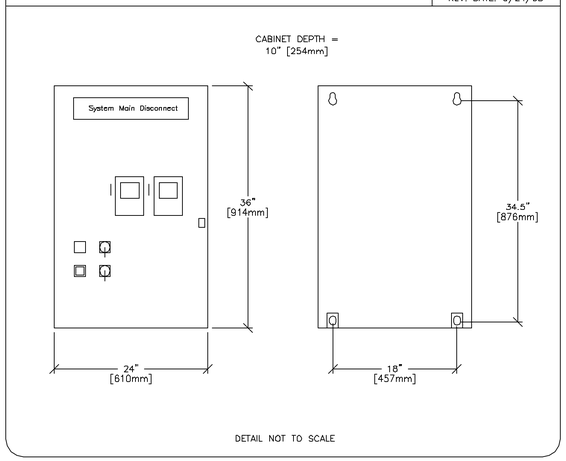
REV. DATE: 05/17/05



DETAIL NOT TO SCALE

EQUIPMENT DETAIL — INNOVA 2000 MAIN DISCONNECT — E45-02K

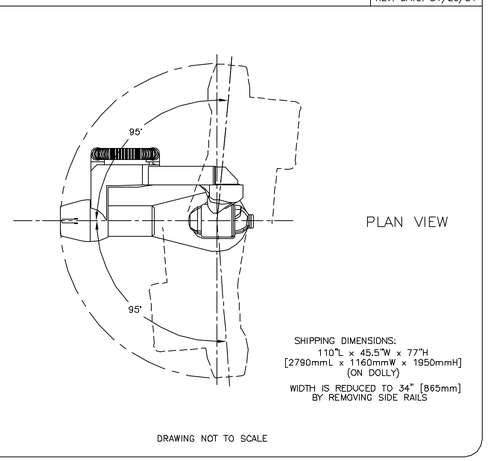
REV. DATE: 9/24/03



DETAIL NOT TO SCALE

EQUIPMENT DETAIL — INNOVA 2000 VASCULAR SYSTEM — B5049

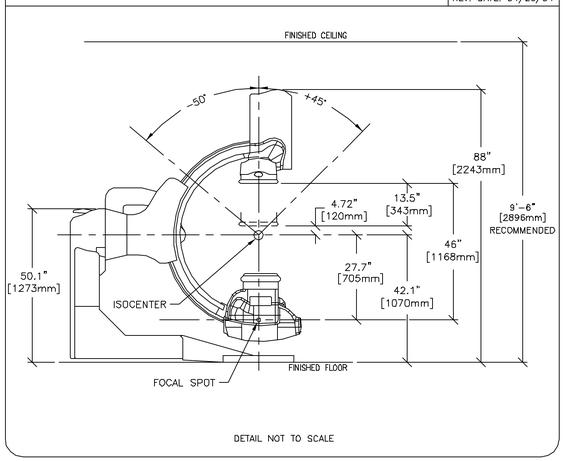
REV. DATE: 04/26/04



DRAWING NOT TO SCALE

EQUIPMENT DETAIL — INNOVA 2000 VASCULAR SYSTEM — B5049A

REV. DATE: 04/26/04



DETAIL NOT TO SCALE

GE Healthcare Technologies
Installation Services Design Center
Milwaukee, Wisconsin

SHEET TITLE: EQUIPMENT DETAILS

MODALITY TYPE: INNOVA 2000

PROJECT TITLE: TYPICAL SPECIAL PROCEDURES 5-80F
TYPICAL INSTALLATION DRAWINGS

PROJECT	REVISION
5-80f	04

DATE: 10-08-07
DRAWN BY: LLM
CHECKED BY: TST

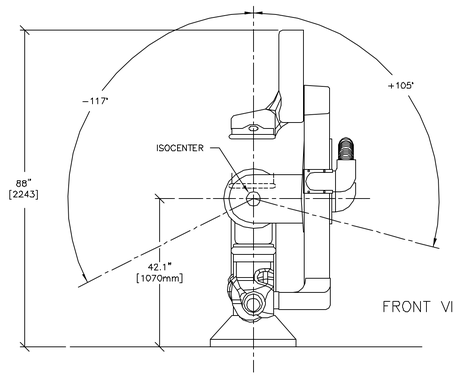
REVISION HISTORY:

SHEET
D1

NFSH-1002

EQUIPMENT DETAIL
INNOVA 2000 VASCULAR SYSTEM

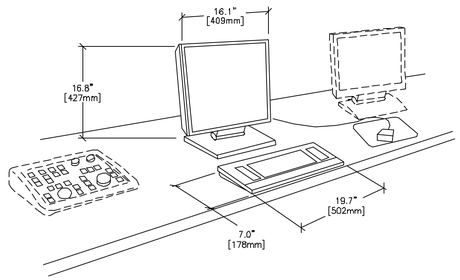
B5049B
REV. DATE: 04/26/04



DRAWING NOT TO SCALE

EQUIPMENT DETAIL
DLX CONSOLE AND KEYBOARD

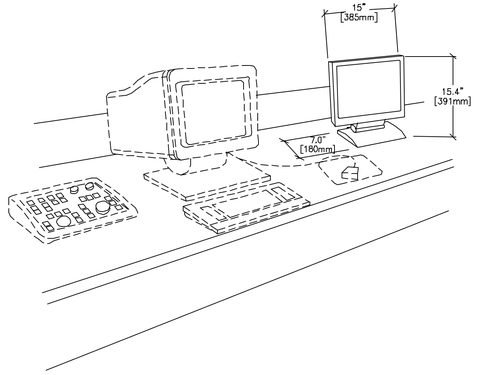
C7412J
REV. DATE: 12/22/03



DETAIL NOT TO SCALE

EQUIPMENT DETAIL
DLX DIALOG DISPLAY

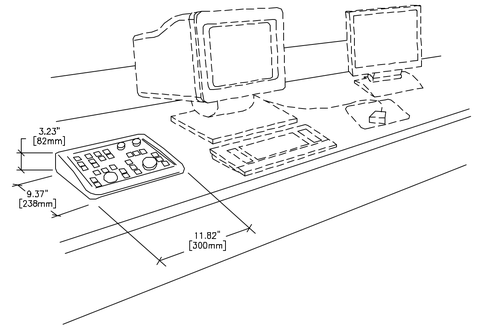
C7412G
REV. DATE: 02/22/02



DETAIL NOT TO SCALE

EQUIPMENT DETAIL
DLX or DL KEYPAD

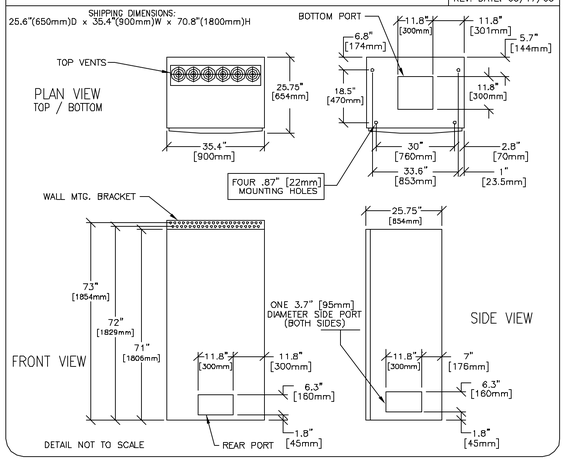
C7412H
REV. DATE: 09/03/03



DETAIL NOT TO SCALE

EQUIPMENT DETAIL
INNOVA 2000 ATLAS CABINET

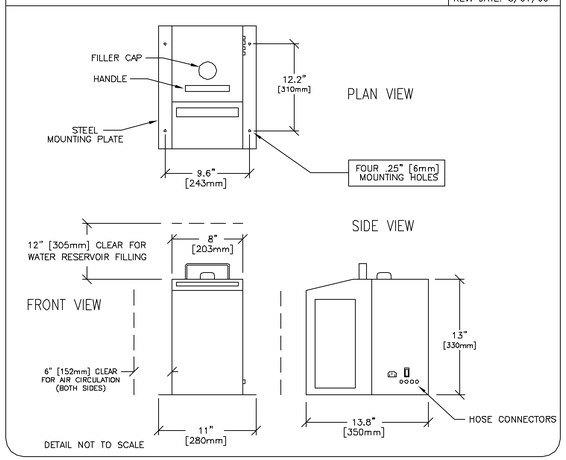
B0558
REV. DATE: 05/17/05



DETAIL NOT TO SCALE

EQUIPMENT DETAIL
INNOVA DETECTOR COOLER

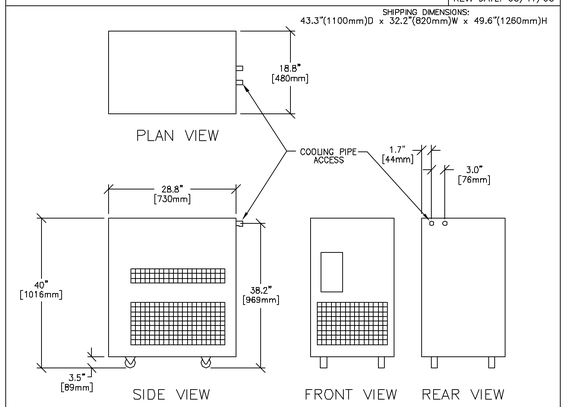
B5049F
REV. DATE: 8/01/00



DETAIL NOT TO SCALE

EQUIPMENT DETAIL
COOLIX 2200A RECIRCULATING CHILLER

M0917A
REV. DATE: 05/17/05



DETAIL NOT TO SCALE

GE Healthcare Technologies
Installation Services Design Center
Wisconsin
Milwaukee,

SHEET TITLE: EQUIPMENT DETAILS

MODALITY TYPE: INNOVA 2000

PROJECT TITLE:
TYPICAL SPECIAL PROCEDURES 5-80F
TYPICAL INSTALLATION DRAWINGS

PROJECT	REVISION
5-80f	04

DATE: 10-08-07
DRAWN BY: LLM
CHECKED BY: TST

REVISION HISTORY:

SHEET
D2

NFSH-1002