

Drawing Index

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

SITE READINESS	C1
EQUIPMENT LAYOUT	A1
(Equipment locations, heat loads, component weights, environmental specs)	
STRUCTURAL LAYOUT	S1
(Structural support/mounting locations for floor/wall/ceiling, wall support elevations)	
STRUCTURAL DETAILS	S2
(Floor and Ceiling loading information)	
ELECTRICAL LAYOUT	E1
(Contractor supplied wiring, interconnect methods, junction point locations and descriptions)	
ELECTRICAL SPECIFICATIONS	E2
(Maximum wiring run lengths, interconnect diagram, system power specifications)	
ELECTRICAL DETAILS	E3
EQUIPMENT DETAILS	D1

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

* REQUIRED REFERENCE *

Silhouette VR
Preinstallation Manual
2229353

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:

www.gehealthcare.com/siteplanning

GE Healthcare



RAD 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

The items 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.						
Item #	Inspection Date	Storage: Is item ready?	Predict (Pre-ship): Is this item ready?	Verify (Delivery): Will item be ready?	Validate (Mech install): Is item ready?	Comments
1	GEHC Minimum Requirements					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
Mishawaka, Wisconsin
Copyright 2009 General Electric Company - Proprietary to GE

SHEET TITLE: SITE READINESS
MODALITY TYPE: SILHOUETTE VR

THIS PLAN IS SUBMITTED AS A SUGGESTION. LOCATION OF GE HEALTHCARE EQUIPMENT AND ASSOCIATED UTILITIES ARE NOT TO BE CONSIDERED AS GUARANTEED. IN PREPARING THIS PLAN, EVERY EFFORT HAS BEEN MADE TO CONFORM DETAILS TO ACTUAL EQUIPMENT EXPECTED TO BE INSTALLED. GE HEALTHCARE ASSUMES NO RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:
1-120f
TYPICAL LAYOUT

PROJECT: 1-120f
REVISION: 10
DATE: 12-31-09
DRAWN BY: DJH
CHECKED BY: JDR

REVISION HISTORY:

SHEET
C1

GE EQUIPMENT LISTING

ITEM NO.	QUANTITY ORDERED	REFER TO SHEET "D"	ITEM DESCRIPTION (* = EXISTING/REINSTALL)	WEIGHT	HEAT OUTPUT (PER HOUR)	DETAIL NO.	STRC PLAN	ELEC PLAN	EQUIPMENT CROSS REFERENCE CHART	
									P = PREAPPROVAL	C = CALCULATIONS/PENDING APPROVAL
1	1		SILHOUETTE VR TABLE WITH TUBESTAND	972 lbs	4822 btu	B0549 B0549A B0549B	B0549C	ST	C	
2	1		SILHOUETTE VR CONTROL CONSOLE ON PEDESTAL	33 lbs	98 btu	B0549E	---	OCP	S	
3	1		SILHOUETTE VR WALL STAND	264 lbs		B0549D	S91	K	C	

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

ITEM NO.	QUANTITY ORDERED	REFER TO SHEET "D"	ITEM DESCRIPTION (* = EXISTING/REINSTALL)	WEIGHT	HEAT OUTPUT (PER HOUR)	DETAIL NO.	STRC PLAN	ELEC PLAN

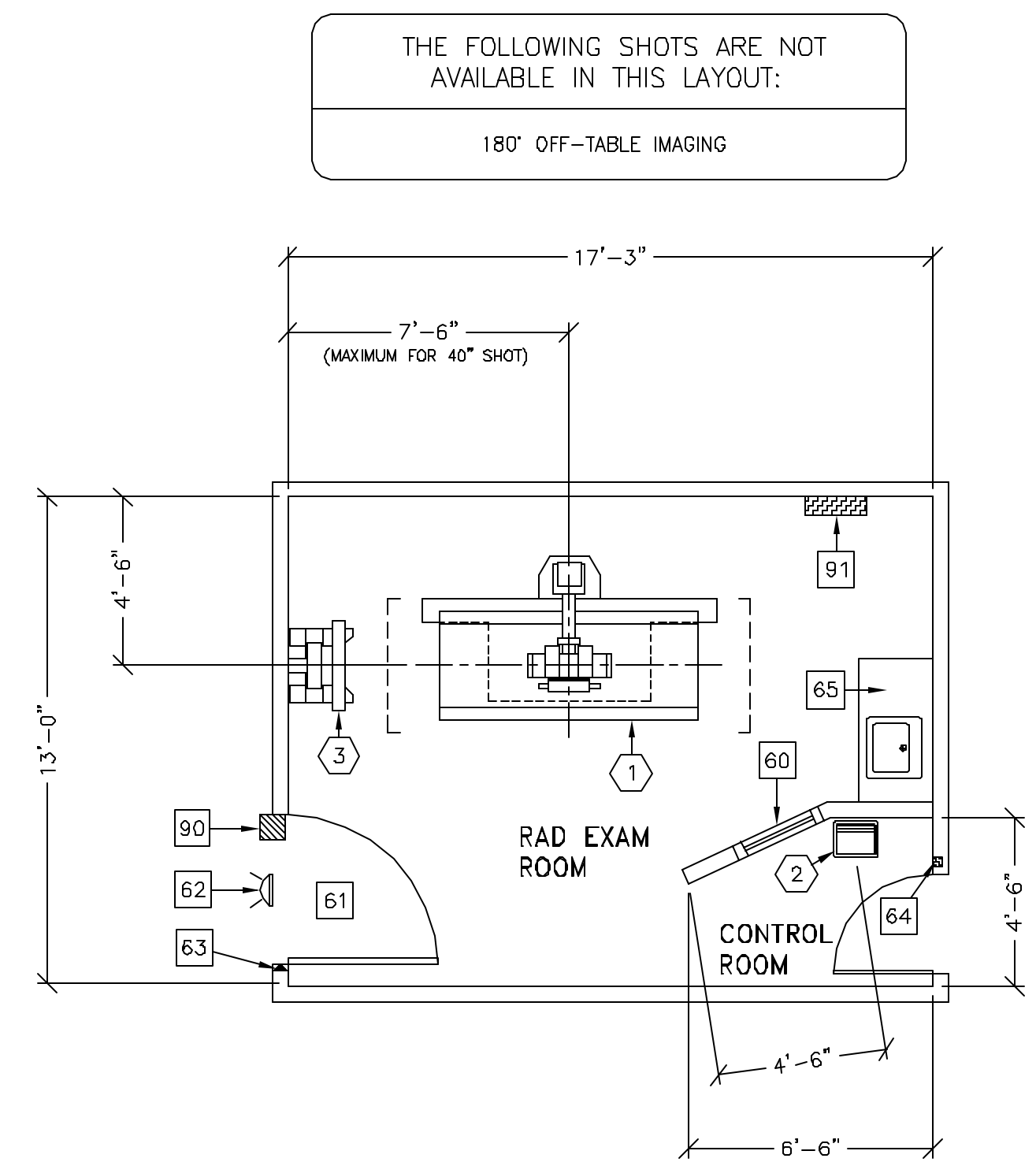
SCALE: 1/4" = 1'-0"

EQUIPMENT LAYOUT

RECOMMENDED CEILING HEIGHT = 9'-6"

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

ROOM DIMENSIONS	LENGTH & WIDTH	CEILING HEIGHT
MINIMUM:	13'-0" x 11'-0" [4.0m x 3.4m]	8'-2 1/2" [2.5m]
RECOMMENDED:	19'-8" x 19'-8" [6.0m x 6.0m]	9'-10" [3.0m]



ANCILLARY ITEMS
CUSTOMER/CONTRACTOR SUPPLIED AND INSTALLED ITEMS

ITEM NO.	ITEM DESCRIPTION (* INDICATES EXISTING)
60	CONTROL WALL, 7 FT. HIGH WITH LEAD GLASS VIEWING WINDOW.
61	MINIMUM DOOR OPENING FOR EQUIPMENT DELIVERY IS 48 IN. W X 80 IN. H [1219mm X 2032mm], CONTINGENT ON A 78 IN. [1981mm] CORRIDOR WIDTH.
62	X-RAY ON WARNING LIGHT - AVAILABLE FROM GE SUPPLY CALL 800-800-9760
63	GE CAT. NO. WX1ABVV-DF-X1U
64	DOOR LIMIT SWITCH (* NEEDED ONLY IF REQUIRED BY STATE/LOCAL CODES)
65	EMERGENCY OFF SWITCH (* NEEDED ONLY IF REQUIRED BY STATE/LOCAL CODES)
66	COUNTER TOP WITH SINK & BASE CABINETS

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

69	X-RAY ROOM WARNING LIGHT CONTROL PANEL REFERENCE JUNCTION POINT 'XRLC' ON SHEET 'E1' FOR DETAILED DESCRIPTION -E4502RL FOR WARNING LIGHT CONTROL ONLY.
91	MAIN DISCONNECT REFERENCE JUNCTION POINT 'A' ON SHEET 'E1' FOR DETAILED DESCRIPTION -E4502ST OR WITH AUTO RESTART E4502RP. (20 W X 48 H X 6.68 IN. D)

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 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 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
 Milwaukee, Wisconsin
 Copyright 2009 General Electric Company - Proprietary to GE

SHEET TITLE: EQUIPMENT LAYOUT
 MODALITY TYPE: SILHOUETTE VR

THIS PLAN IS SUBMITTED TO SUGGEST LOCATION OF GE HEALTHCARE EQUIPMENT AS SHOWN. GE HEALTHCARE ACCEPTS NO LIABILITY FOR ANY CHANGES IN PREPARING THIS PLAN. EVERY EFFORT HAS BEEN MADE TO CONFORM DETAILS TO ACTUAL EQUIPMENT EXPECTED TO BE INSTALLED. GE HEALTHCARE ACCEPTS NO LIABILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:
 1-120f
 TYPICAL LAYOUT

PROJECT	REVISION
1-120f	10

DATE: 12-31-09
 DRAWN BY: DJH
 CHECKED BY: JDR

REVISION HISTORY:

SHEET
A1

P1M R12

TYPICAL WALL SUPPORT ELEVATIONS

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

STRUCTURAL LAYOUT

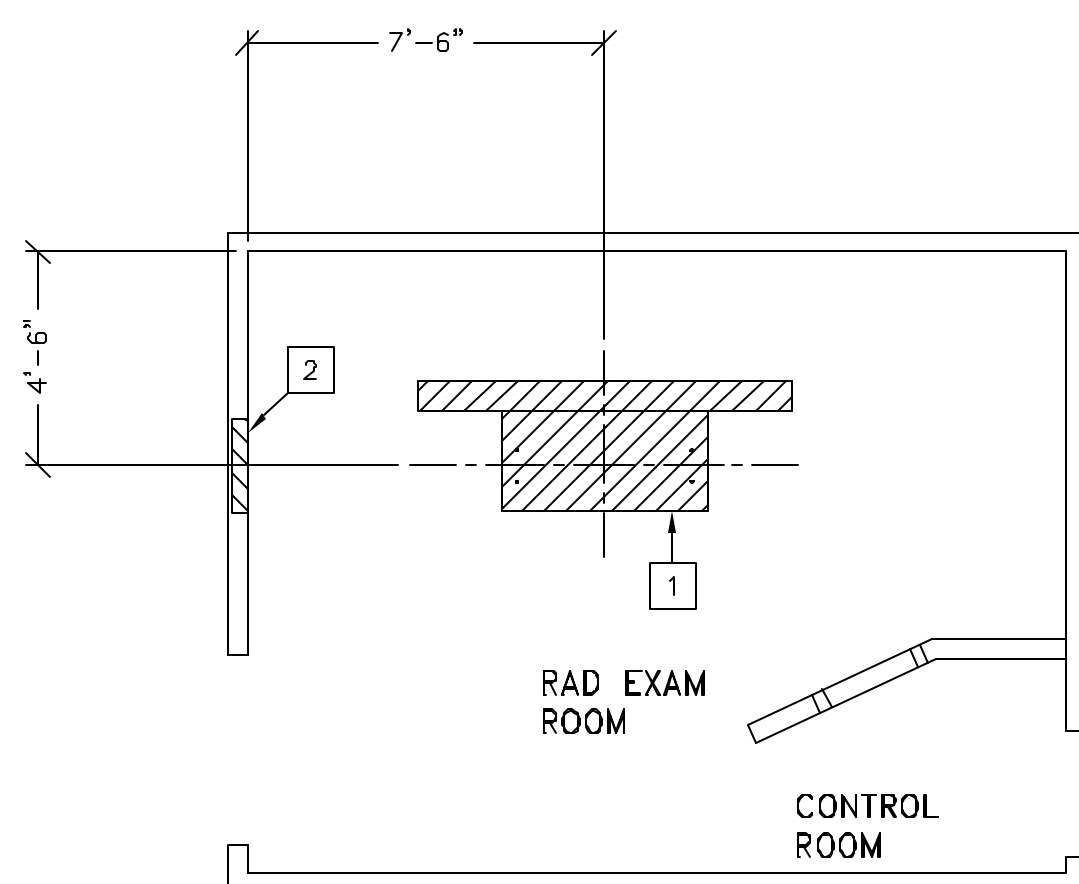
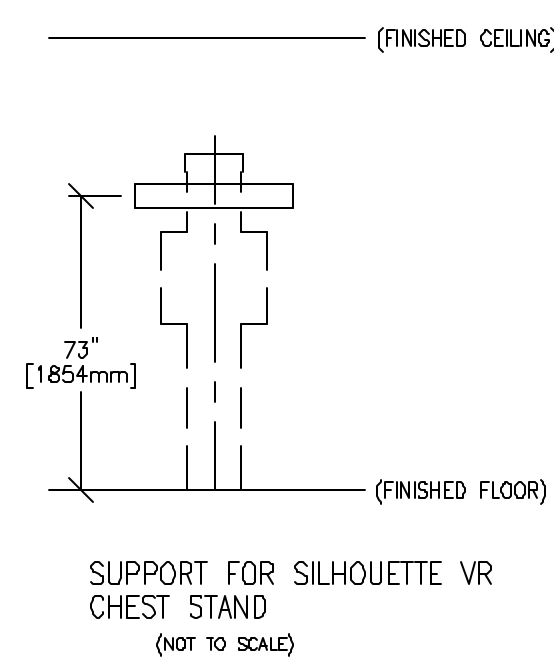
RECOMMENDED CEILING HEIGHT = 9'-6"

STRUCTURAL SUPPORT METHODS

CUSTOMER/CONTRACTOR SUPPLIED AND INSTALLED ITEMS

ITEM NO.	ITEM DESCRIPTION (* INDICATES EXISTING)
1	FLOOR CONTACT AREA FOR TABLE AND TUBESTAND.
2	SUPPORT BACKING, LOCATE AS SHOWN, REFER TO ELEVATION DETAIL S91, FOR CHEST UNIT

S91



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"

SHEET TITLE: STRUCTURAL LAYOUT
 MODALITY TYPE: SILHOUETTE VR
THIS PLAN IS SUBMITTED IN SUGGESTED LOCATION OF GE HEALTHCARE EQUIPMENT AS SHOWN. GE HEALTHCARE EQUIPMENT IS NOT TO BE INSTALLED. IN PREPARING THIS PLAN, EVERY EFFORT HAS BEEN MADE TO CONFORM DETAILS TO ACTUAL EQUIPMENT EXPECTED TO BE INSTALLED. GE HEALTHCARE EQUIPMENT IS NOT TO BE USED FOR RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:
 1-120f
 TYPICAL LAYOUT

PROJECT	REVISION
1-120f	10

DATE: 12-31-09
 DRAWN BY: DJH
 CHECKED BY: JDR

REVISION HISTORY:

SHEET
 S1

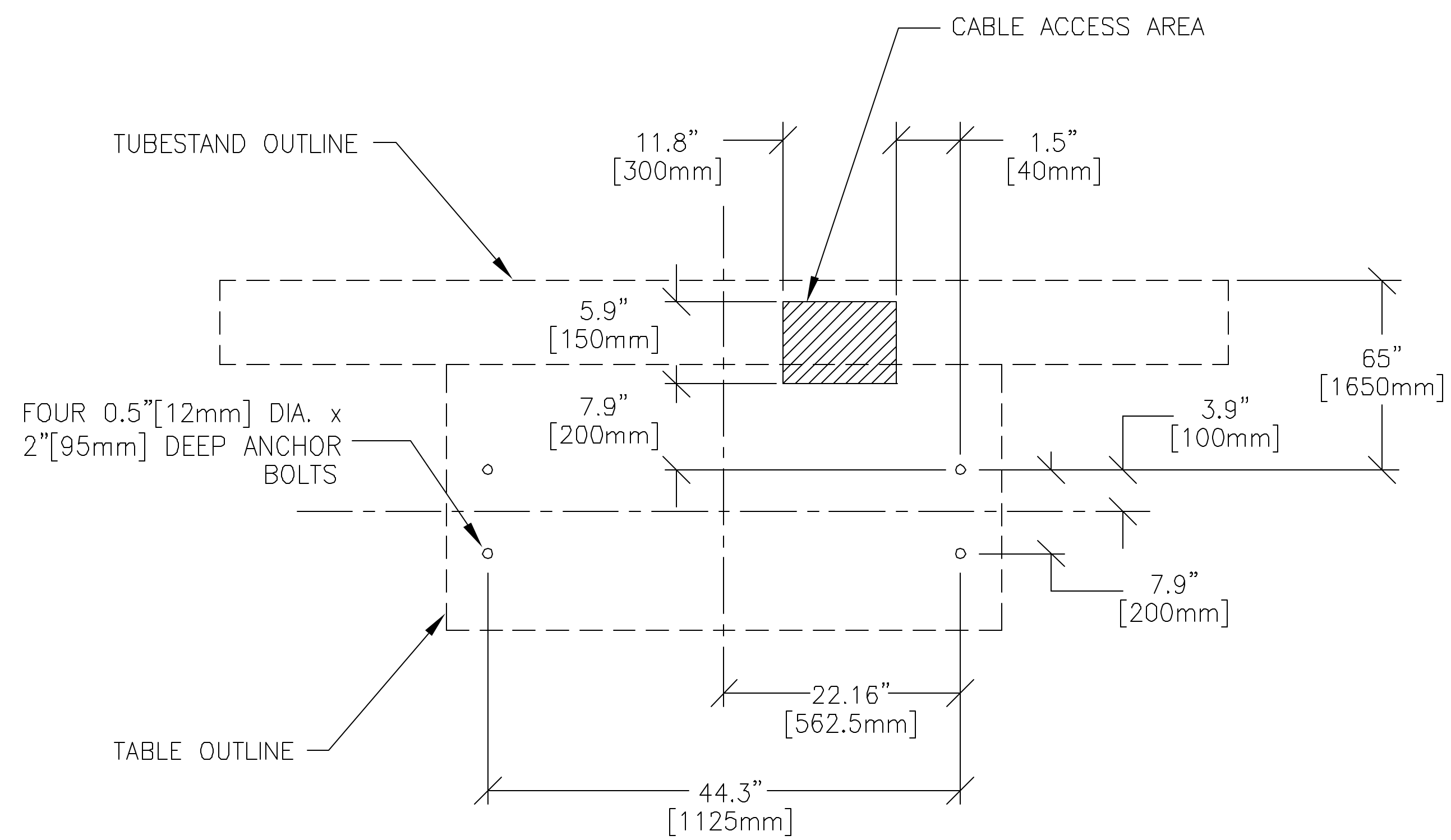
PIM R12

GE Healthcare Technologies
 Installation Services Design Center
 Milwaukee, Wisconsin
 Copyright 2009 General Electric Company - Proprietary to GE

FLOOR MOUNTING DETAIL: SILHOUETTE VR TABLE INSTALLATION METHODS

B0549C

REV. DATE: 06/24/02



SHEET TITLE: STRUCTURAL DETAILS
MODALITY TYPE: SILHOUETTE VR

THIS PLAN IS SUBMITTED IN SUPPORT OF THE LOCATION OF GE HEALTHCARE EQUIPMENT AND IS NOT TO BE USED FOR CONSTRUCTION. THE COMPANY CANNOT ACCEPT RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:
1-120f
TYPICAL LAYOUT

PROJECT	REVISION
1-120f	10
DATE:	12-31-09
DRAWN BY:	DJH
CHECKED BY:	JDR

REVISION HISTORY:

SHEET
S2

GE Healthcare Technologies
Installation Services Design Center
Milwaukee, Wisconsin
Copyright 2009 General Electric Company - Proprietary to GE

P1M R12

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

ELECTRICAL PLAN

RECOMMENDED CEILING HEIGHT = 9'-6"

JUNCTION POINT DESCRIPTIONS

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

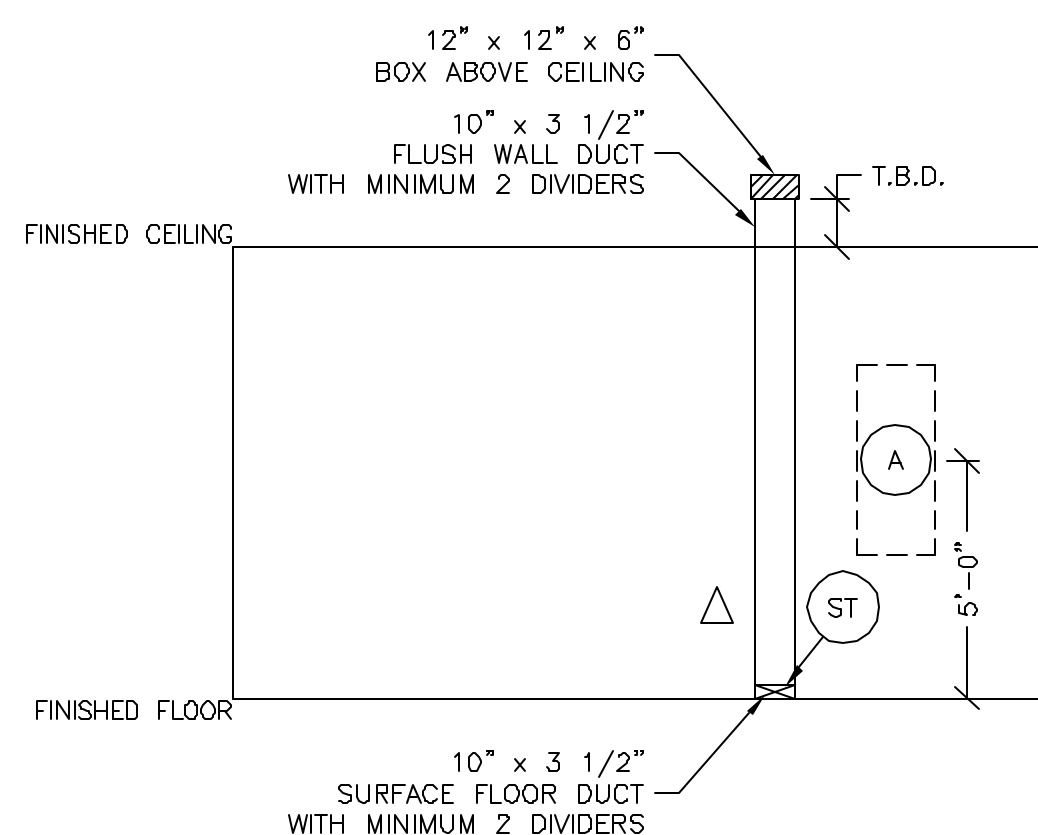
DUCT HATCHING LEGEND

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

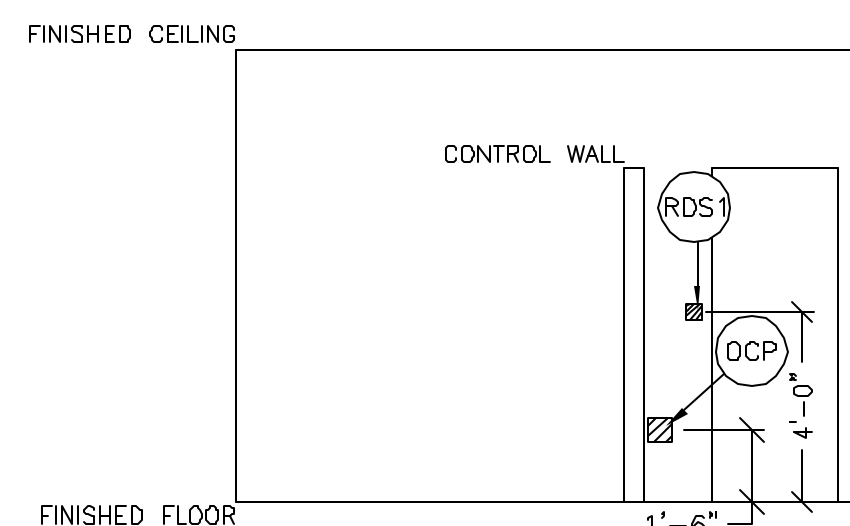
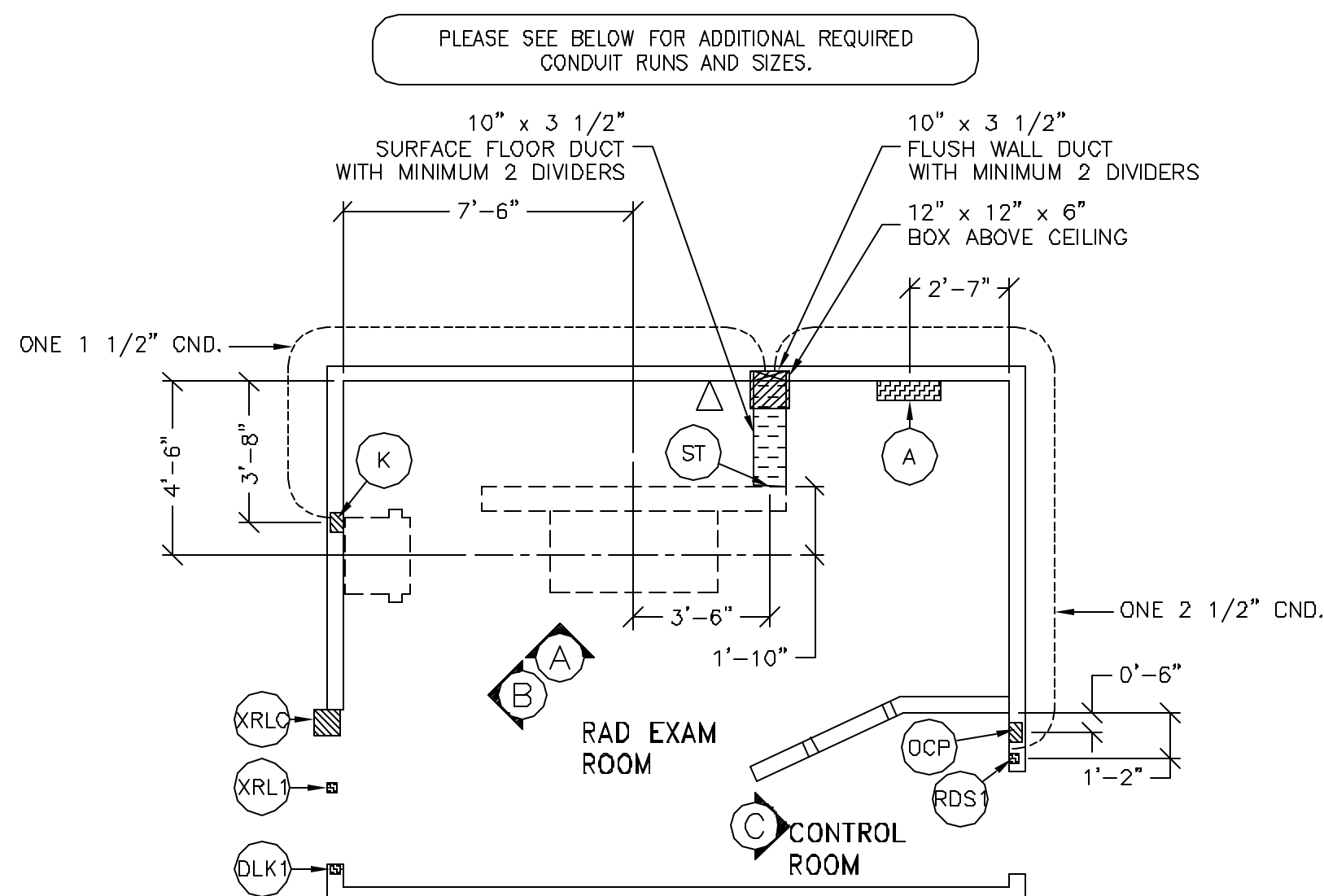
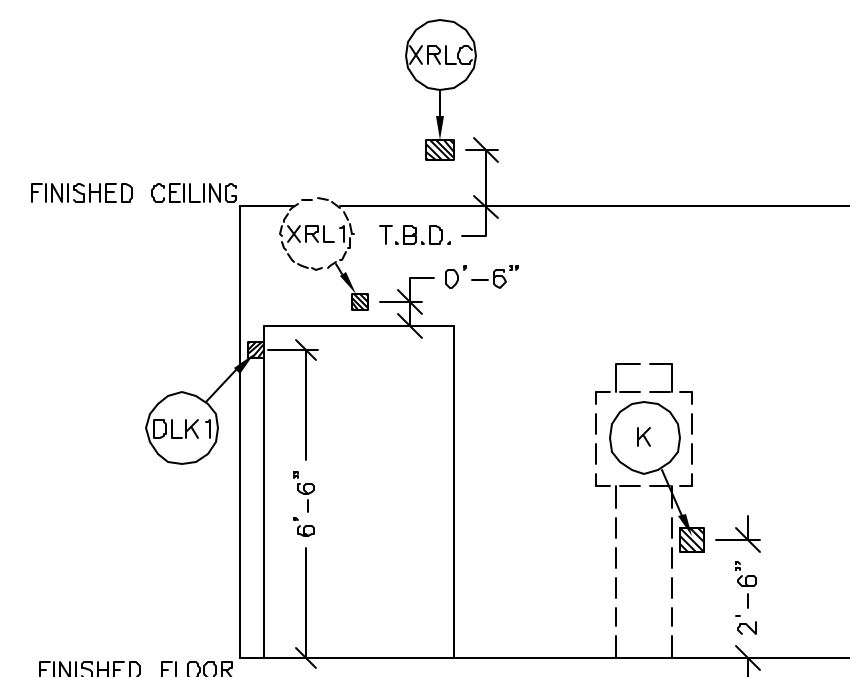
JUNCTION POINT NOTES

- ALL JUNCTION BOXES, CONDUIT, DUCT, DUCT DIVIDERS, SWITCHES, CIRCUIT BREAKERS, ETC., ARE TO BE SUPPLIED AND INSTALLED BY CUSTOMER'S 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.
- 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 THHN OR TFFN STRANDED COPPER THERMOPLASTIC 600 VOLT OR EQUIVALENT INSULATION. ALUMINUM OR SOLID WIRES ARE NOT ALLOWED.
- GROUNDING IS CRITICAL TO EQUIPMENT FUNCTION AND PATIENT SAFETY. SITE MUST CONFORM TO WIRING SPECIFICATIONS SHOWN ON THIS PLAN.

POINT	THE FOLLOWING MATERIALS ARE TO BE SUPPLIED AND INSTALLED BY THE CUSTOMER'S ELECTRICAL CONTRACTOR		
	DESCRIPTION	QTY.	DETAIL NO., SHI. E3
A	MAIN DISCONNECT AVAILABLE FROM GE/HC CALL 800-556-5102 OR LOCAL GE INSTALLATION PROJECT MGR.	1	80-AMP CIRCUIT BREAKER PANEL (EMERGENCY OFF WITH AUTO RESTART FEATURE E4502RP. EMERGENCY OFF PUSHBUTTON STATION IS INCLUDED.)
DLK1	DOOR SWITCH (NEEDED ONLY IF REQUIRED BY STATE/LOCAL CODES)	1	ROOM DOOR INTERLOCK LIMIT SWITCH IN FRAME - NORMALLY OPEN (<24V)
K	CASSETTE HOLDER	1	1 1/2 IN. DIA. CHASE NIPPLE 6 X 6 X 4 IN. BOX
OCP	CONTROL CONSOLE	1	1 1/2 IN. DIA. CHASE NIPPLE 6 X 6 X 4 IN. BOX 1 COVERPLATE
RDS1	EMERGENCY OFF	1	PROVIDE A SINGLE GANG, 2 1/8 IN. DEEP, FLUSH MTD. WALL BOX.
ST	TABLE	1	40 IN. OF GROMMET MATERIAL
XRL1	WARNING LIGHT	1	X-RAY ON SINGLE GANG BOX 24V, 9 AMP OR LESS LOW VOLTAGE SOURCE. DO NOT USE FLUORESCENT FIXTURES.
XRLC	WARNING LIGHT CONTROLLER AVAILABLE FROM GE/HC CALL 800-556-5102 OR LOCAL GE INSTALLATION PROJECT MGR.	1	E4502RL WARNING LIGHT CONTROL OR EQUIVALENT MAX 24V CONTROLLER



NOTE: WARNING LIGHT IS MOUNTED ON THE OTHER SIDE OF THE WALL.



FEEDER TABLE SILHOUETTE VR REV. DATE: 02/25/06

* CALCULATIONS BASED UPON NOMINAL VOLTAGE, WIRE SIZE IN AWG.
 * RECOMMENDED FEEDER SIZES FROM DISTRIBUTION TRANSFORMER TO THE POWER CABINET
 * NEUTRAL MUST BE TERMINATED INSIDE THE MAIN DISCONNECT PANEL AND NOT AT ANY GE CABINET.
 * THE GROUNDING CONDUCTOR (1) WILL RUN FROM THE EQUIPMENT BACK TO THE POWER SOURCE/MAIN GROUNDING POINT AND ALWAYS TRAVEL IN THE SAME CONDUIT WITH THE FEEDERS AND NEUTRAL.
 * MINIMUM WIRE SIZE FOR CIRCUIT BREAKER, BASED ON RECOMMENDED OVERCURRENT PROTECTION.
 * FOR A FULL SYSTEM UPS, REFER TO ELECTRICAL DETAILS FOR UPS FEEDER WIRES.
 NOTE: POWER RUN FROM BOX/DUCT TO GENERATOR IN TABLE BASE MUST BE WELDING CABLE OR EQUIVALENT

RUN LENGTH IN FEET	POWER SUPPLY VOLTAGE					
	342-418 380	360-440 400	373-456 415	396-484 440	414-506 460	432-528 480
50	4 (Ø)	4 (Ø)	4 (Ø)	4 (Ø)	4 (Ø)	4 (Ø)
100	4 (Ø)	4 (Ø)	4 (Ø)	4 (Ø)	4 (Ø)	4 (Ø)
150	3 (Ø)	3 (Ø)	4 (Ø)	4 (Ø)	4 (Ø)	4 (Ø)
200	2 (Ø)	2 (Ø)	3 (Ø)	3 (Ø)	3 (Ø)	4 (Ø)
250	1 (Ø)	1 (Ø)	2 (Ø)	2 (Ø)	2 (Ø)	3 (Ø)
300	1/Ø (Ø)	1/Ø (Ø)	1 (Ø)	1 (Ø)	2 (Ø)	2 (Ø)
350	2/Ø (Ø)	2/Ø (Ø)	1/Ø (Ø)	1/Ø (Ø)	1 (Ø)	1 (Ø)
400	3/Ø (Ø)	3/Ø (Ø)	2/Ø (Ø)	1/Ø (Ø)	1/Ø (Ø)	1 (Ø)

ADDITIONAL CONDUIT RUNS FOR SILHOUETTE VR (BY CONTRACTOR)

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

FROM	TO	QUANTITY	WIRE SIZE/COLOR
XRLC	TO XRL1	ONE	1/2" CND.
XRLC	TO ST	ONE	1/2" CND.
XRLC	TO RDS1	ONE	1/2" CND.
XRLC	TO FEEDER	ONE	AS REQ'D
DLK1	TO ST	ONE	1/2" CND.

NOTE: SEE E2 PAGE FOR MAXIMUM RUN LENGTHS

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
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
A > ST	3-BLACK, 1-WHITE, 1-GREEN - REFER TO FEEDER TABLE
XRLC > ST	1-NO. 14 BLACK, 1-NO. 14 WHITE, 1-NO. 14 GREEN
DLK1 > ST	1-NO. 14 BLACK, 1-NO. 14 WHITE, 1-NO. 14 GREEN
ST > K	1-NO. Ø GREEN
XRL1 > XRLC	1-NO. 14 BLACK, 1-NO. 14 WHITE, 1-NO. 14 GREEN

GE Healthcare Technologies
 Installation Services Design Center
 Milwaukee, Wisconsin
 Copyright 2009 General Electric Company - Proprietary to GE

SHEET TITLE: ELECTRICAL LAYOUT
 MODALITY TYPE: SILHOUETTE VR

THIS PLAN IS SUBMITTED IN SUPPORT OF THE LOCATION OF GE HEALTHCARE EQUIPMENT AND IS ASSUMED TO BE A TYPICAL LAYOUT. THE USER IS RESPONSIBLE FOR VERIFYING THAT THE EQUIPMENT IS INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. GE HEALTHCARE ACCEPTS NO LIABILITY FOR ANY DAMAGES RESULTING FROM THE USE OF THIS PLAN.

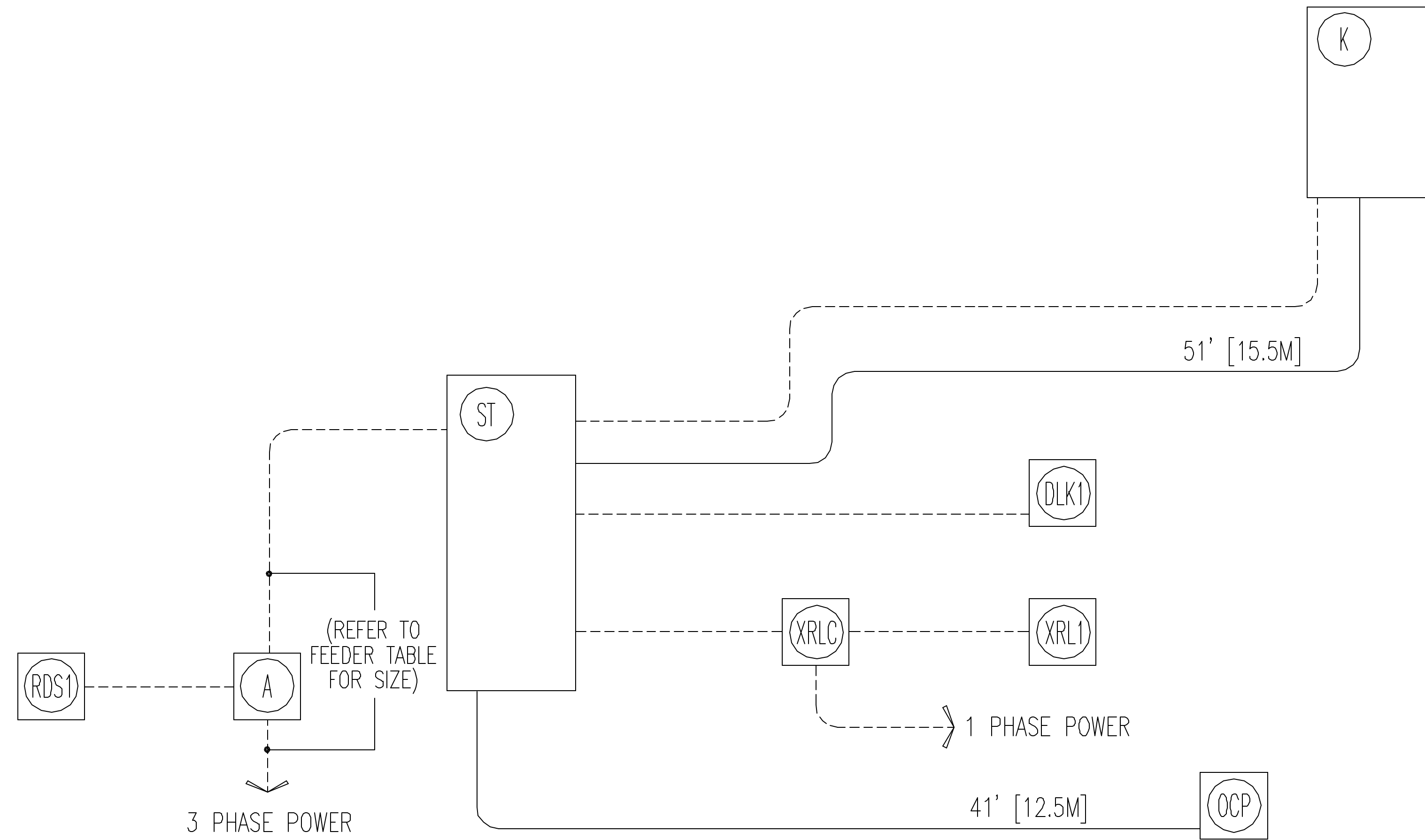
PROJECT TITLE: 1-120f
 TYPICAL LAYOUT

PROJECT: 1-120f
 REVISION: 10
 DATE: 12-31-09
 DRAWN BY: DJH
 CHECKED BY: JDR

REVISION HISTORY:

SHEET
 E1

INTERCONNECT DIAGRAM



POWER SPECIFICATIONS

SILHOUETTE VR SYSTEM REV. DATE: 02/22/06

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

NOMINAL VOLTAGE	NORMAL RANGE ±10 PERCENT	CURRENT (AMPS)		MINIMUM STANDARD OVERCURRENT PROTECTION
		MAX. MOMENTARY	CONTINUOUS	
380	342-418	106	7	70-A
400	360-440	101	7	70-A
415	373-456	97	7	70-A
440	396-484	92	6	60-A
460	414-506	88	6	60-A
480	432-528	84	6	60-A

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 = 4.6 KVA. (MAX DEMAND = 70 KVA)

DEMAND	SILHOUETTE VR
kVa * POWER FACTOR AT	70 0.73
mA	630
kVp	80

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

DISTRIBUTION TRANSFORMER: FOR A SINGLE UNIT INSTALLATION, THE MINIMUM TRANSFORMER SIZE IS 112.5 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 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.
- 59' [18M] MAXIMUM RUN LENGTH BETWEEN JUNCTION POINTS.
Feet [Meters]

GE Healthcare Technologies
 Installation Services Design Center
 Milwaukee, Wisconsin
 Copyright 2009 General Electric Company - Proprietary to GE

SHEET TITLE: ELECTRICAL SPECIFICATIONS
 MODALITY TYPE: SILHOUETTE VR
THIS PLAN IS SUBMITTED TO SUGGEST LOCATION OF GE HEALTHCARE EQUIPMENT AND IS NOT TO BE USED FOR CONSTRUCTION. THE USER SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EQUIPMENT AND FOR OBTAINING ALL NECESSARY PERMITS. IN PREPARING THIS PLAN, EVERY EFFORT HAS BEEN MADE TO CONFORM DETAILS TO ACTUAL EQUIPMENT EXPECTED TO BE INSTALLED. THE USER SHALL BE RESPONSIBLE FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:
 1-120f
 TYPICAL LAYOUT

PROJECT	REVISION
1-120f	10

DATE: 12-31-09
 DRAWN BY: DJH
 CHECKED BY: JDR

REVISION HISTORY:

SHEET
E2

ELECTRICAL DETAIL
INSITE CONNECTION (TYPICAL)

ELEC-1

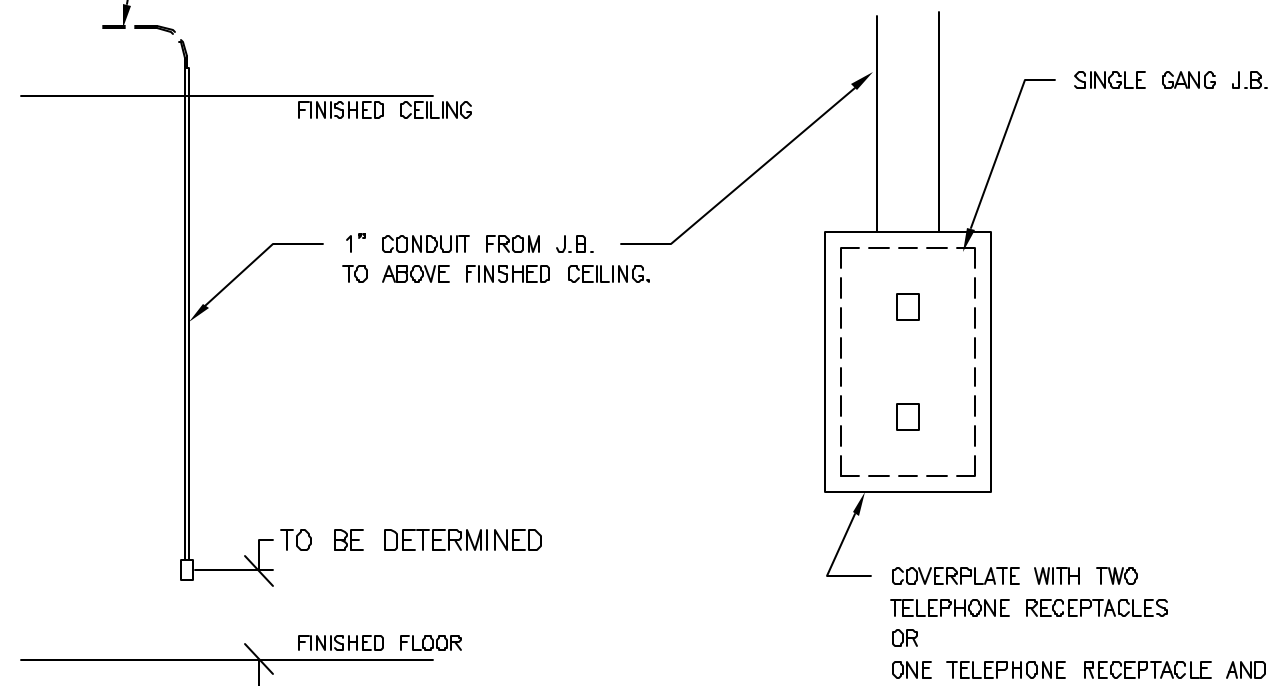
REV. DATE: 04/24/02

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.

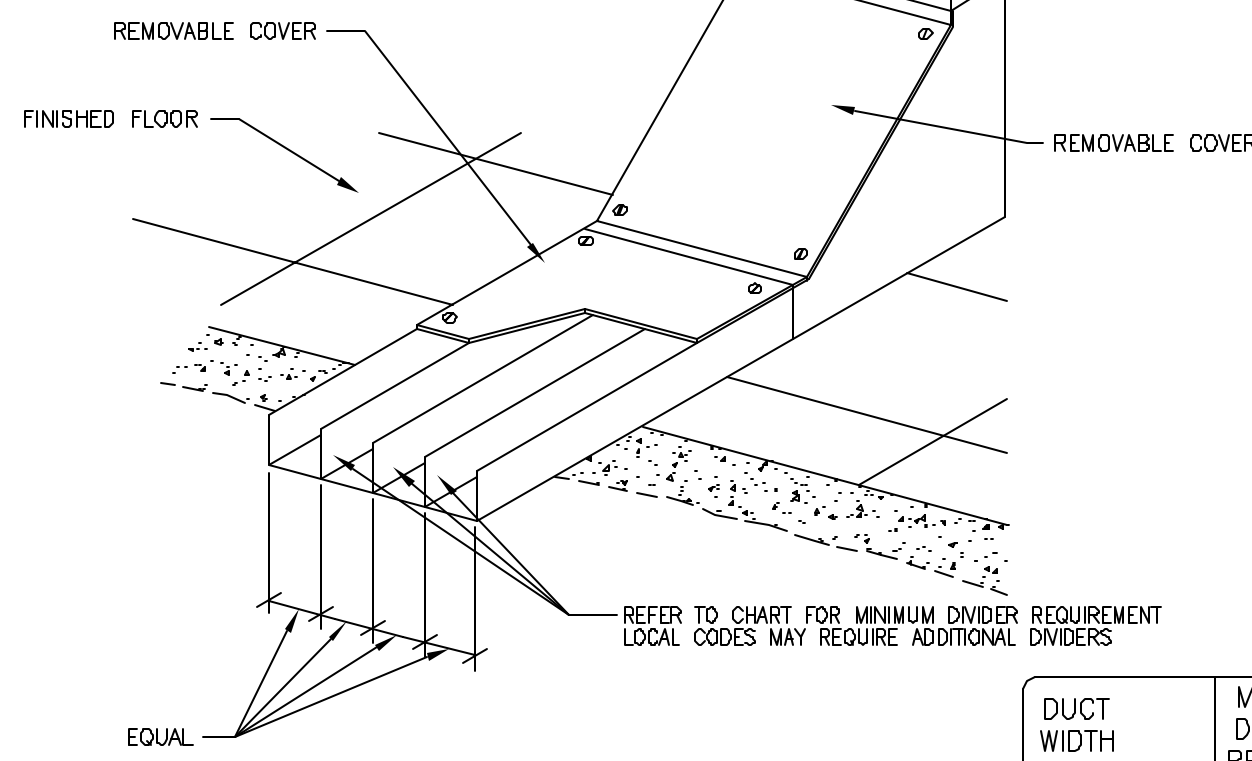


ALL ITEMS ILLUSTRATED ARE TO BE FURNISHED AND INSTALLED BY CUSTOMER OR THEIR CONTRACTOR.
DETAIL NOT TO SCALE

ELECTRICAL DETAIL
SURFACE FLOOR DUCT (TYPICAL)

ELEC-14

REV. DATE: 4/02/04



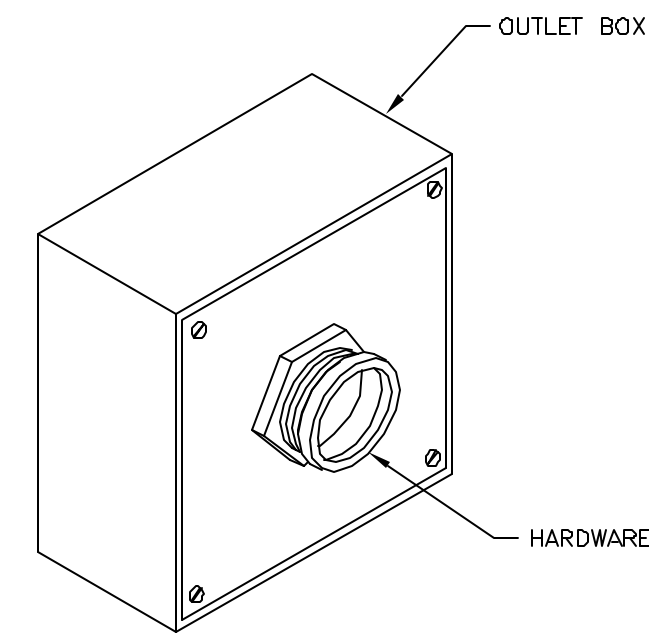
DUCT WIDTH	MINIMUM DIVIDERS REQUIRED
24" [610mm]	2
18" [457mm]	2
10" [254mm]	2
6" [152mm]	1
4" [102mm]	1

DETAIL NOT TO SCALE

ELECTRICAL DETAIL
BOX WITH COVERPLATE (TYPICAL)

ELEC-8

REV. DATE: 09/30/94

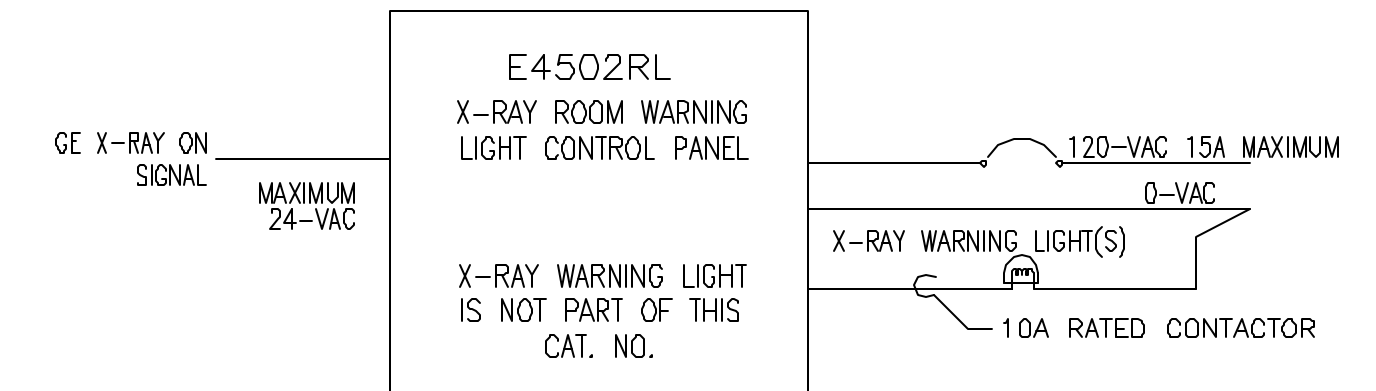


DETAIL NOT TO SCALE

ELECTRICAL DETAIL
WARNING LIGHT DIAGRAM

ELEC-72

REV. DATE: 05/14/09

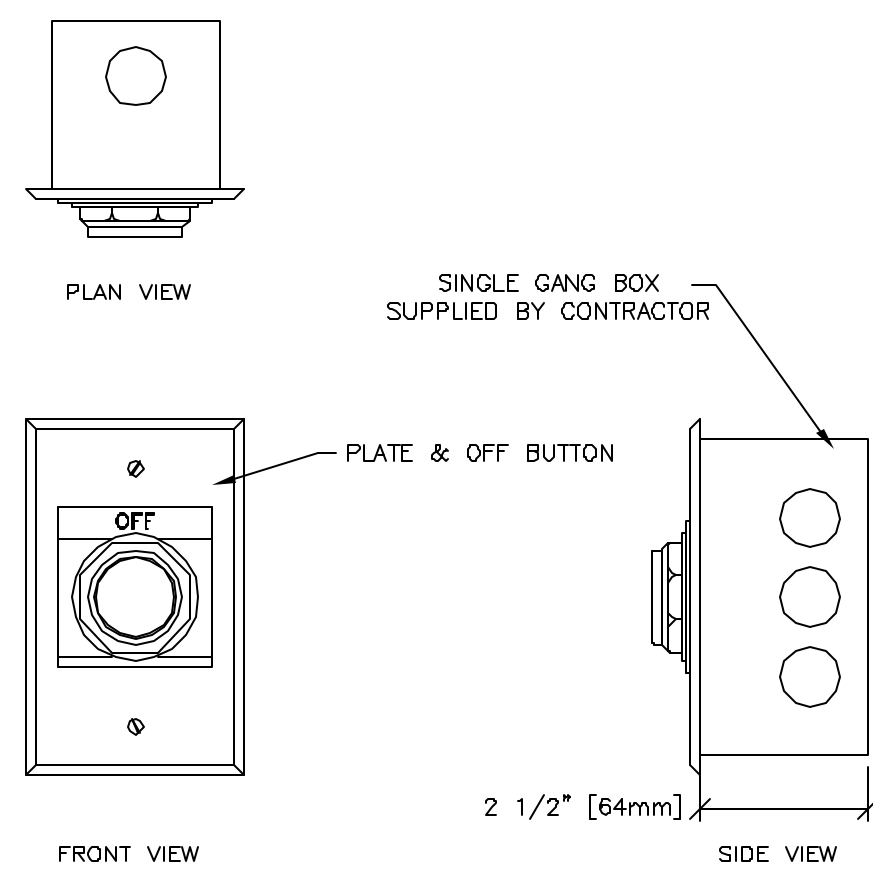


UNLESS SPECIFIED ON SHEET A1 AS BEING INCLUDED ON EQUIPMENT ORDER, ALL ITEMS ILLUSTRATED ARE TO BE FURNISHED AND INSTALLED BY CUSTOMER'S CONTRACTOR.
DRAWING NOT TO SCALE

ELECTRICAL DETAIL
EMERGENCY OFF BUTTON

ELEC-16

REV. DATE: 05/14/09

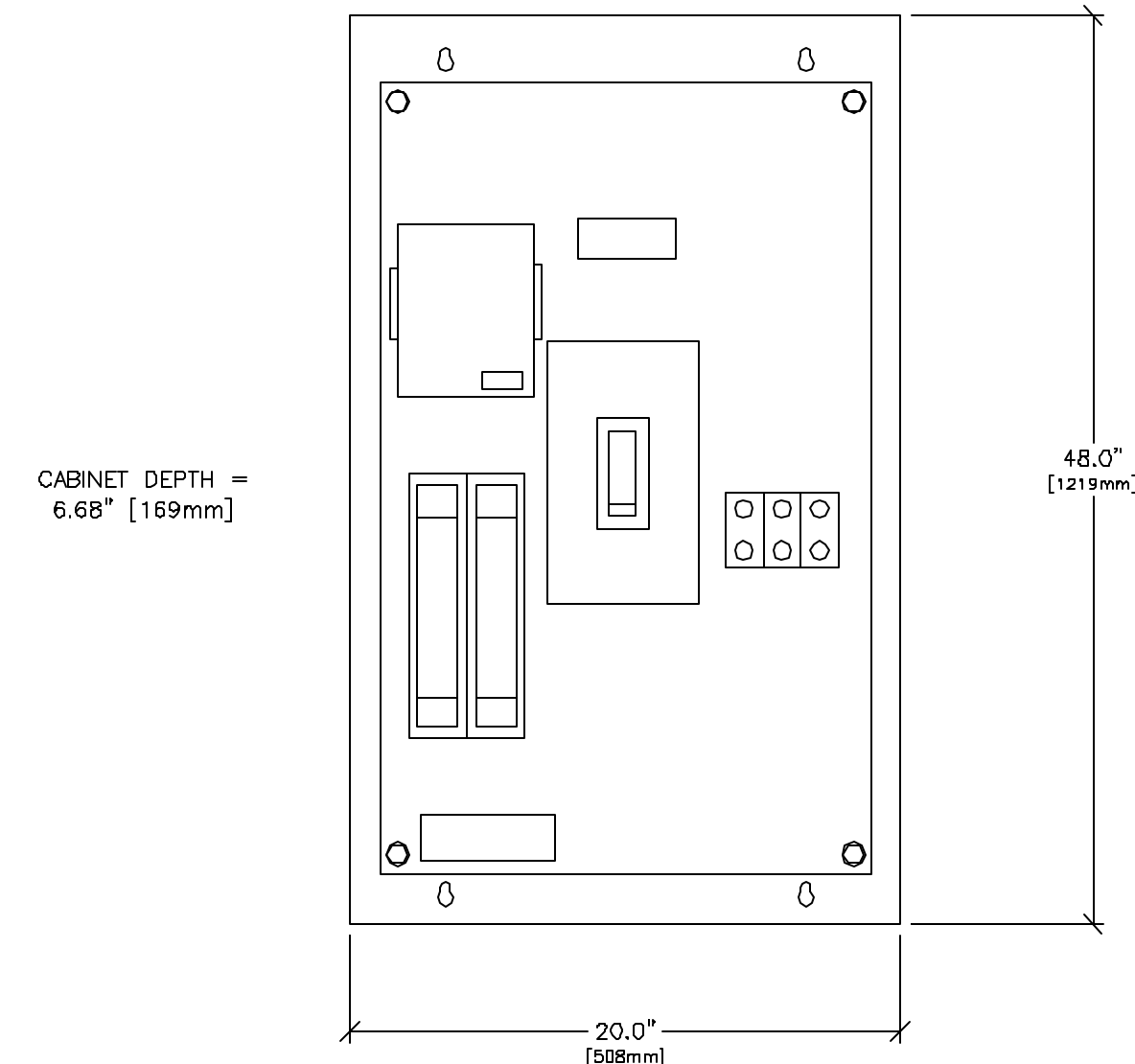


DETAIL NOT TO SCALE

ELECTRICAL DETAIL
X-RAY MAIN DISCONNECT PANEL

ELEC-15

REV. DATE: 01/25/07

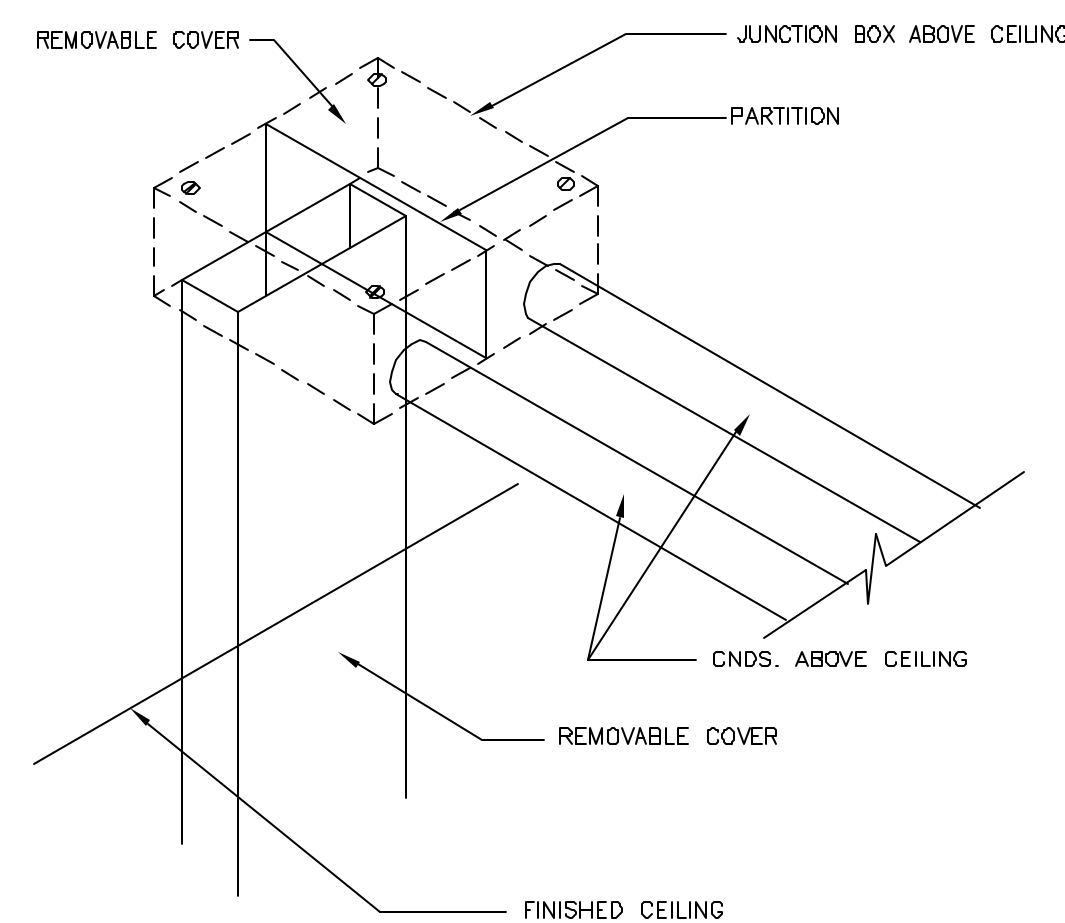


DETAIL NOT TO SCALE

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

ELEC-2

REV. DATE: 09/30/94

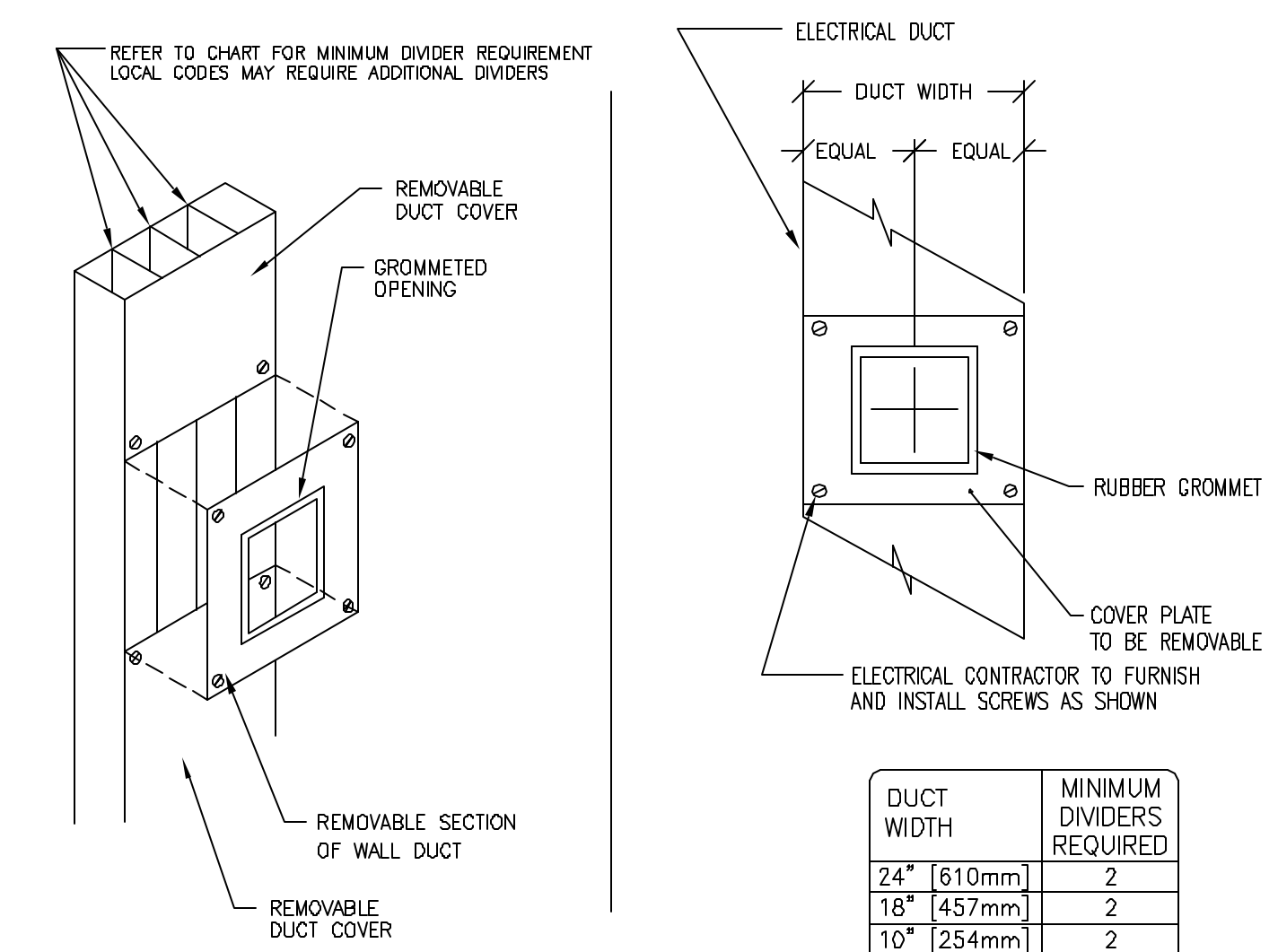


DETAIL NOT TO SCALE

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

SHEET TITLE: ELECTRICAL DETAILS
MODALITY TYPE: SILHOUETTE VR

THIS PLAN IS SUBMITTED IN SUGGESTION OF THE LOCATION OF GE HEALTHCARE EQUIPMENT AND AS SUCH, IT IS NOT GUARANTEED. GE HEALTHCARE DESIGN CENTER HAS MADE EVERY EFFORT TO CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AND LOCAL CODES. IT IS NOT TO BE USED FOR THE INSTALLATION OF ANY EQUIPMENT WITHOUT THE RESPONSIBILITY OF THE INSTALLER. GE HEALTHCARE DESIGN CENTER CANNOT ACCEPT RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:

1-120f
TYPICAL LAYOUT

PROJECT	REVISION
1-120f	10

DATE: 12-31-09
DRAWN BY: DJH
CHECKED BY: JDR

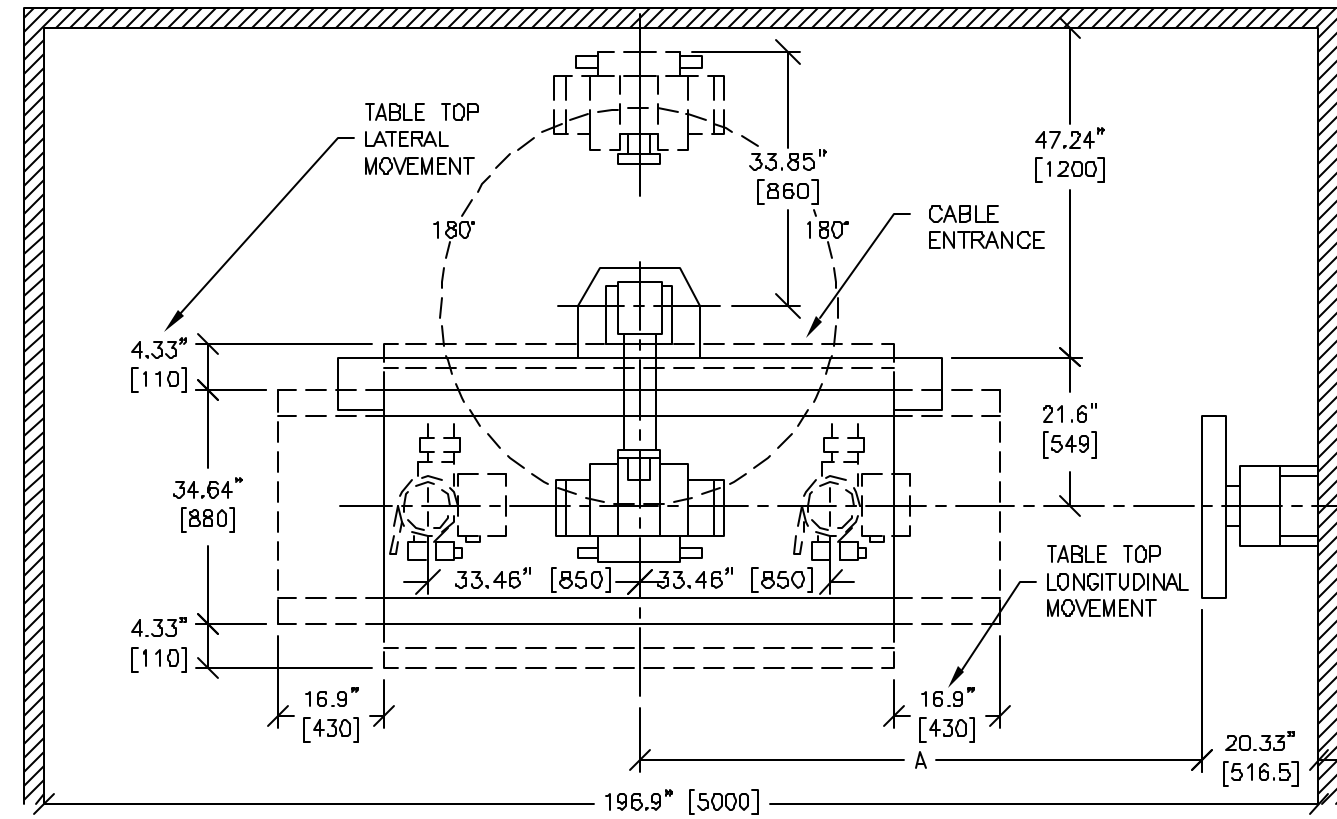
REVISION HISTORY:

SHEET
E3

EQUIPMENT DETAIL
SILHOUETTE VR TABLE

B05-49

REV. DATE: 12/18/09



- NOTE:
- IF WALL STAND USE ONLY 180cm SID A<2640mm
 - IF WALL STAND USE BOTH 100cm AND 180cm SID A<1840mm

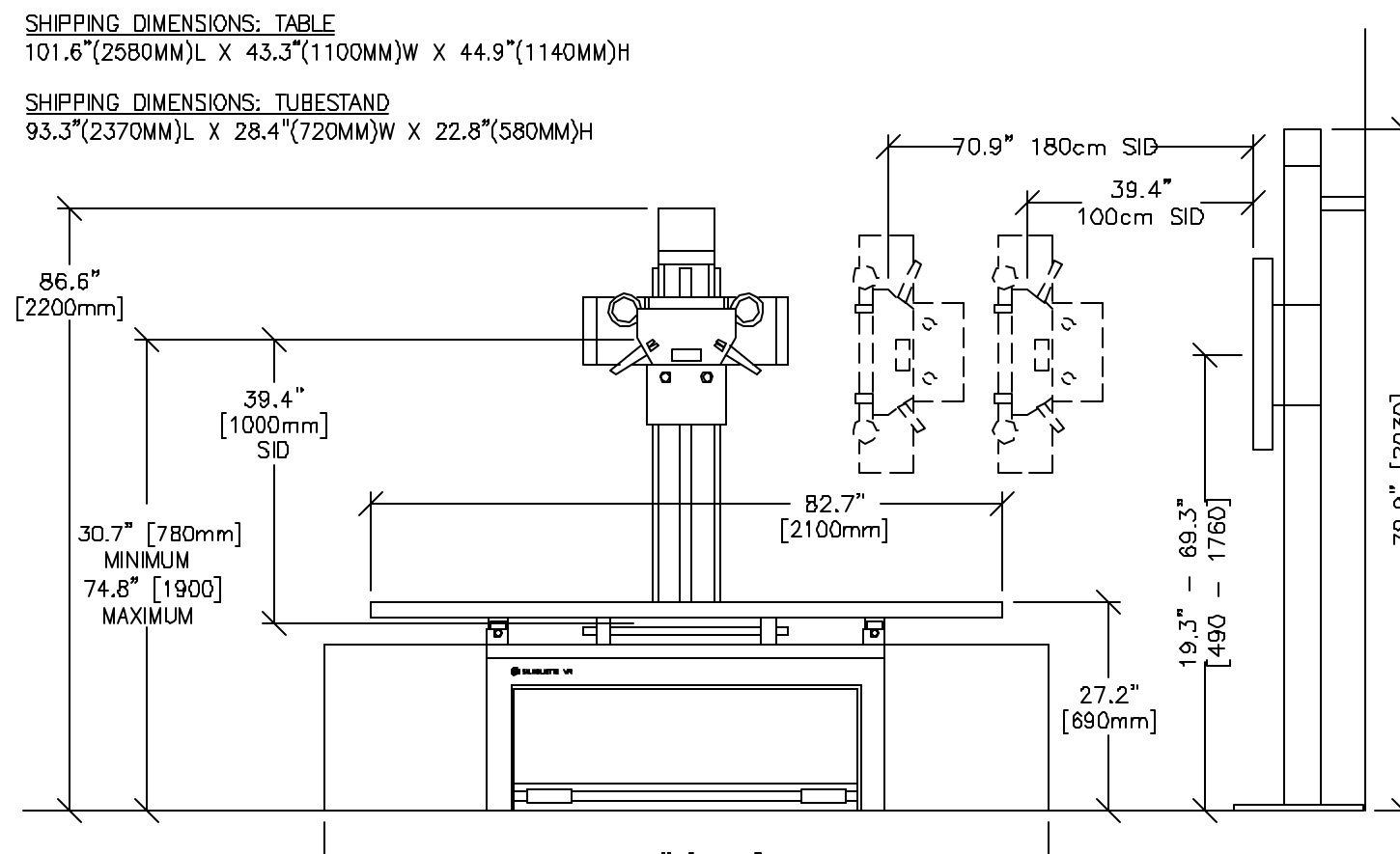
NOTE: "A" REFERS TO THE DISTANCE BETWEEN THE TUBE CENTER AND THE FRONT PANEL OF WALL STAND

PLAN VIEW
DETAIL NOT TO SCALE

EQUIPMENT DETAIL
SILHOUETTE VR TABLE

B05-49A

REV. DATE: 12/18/09



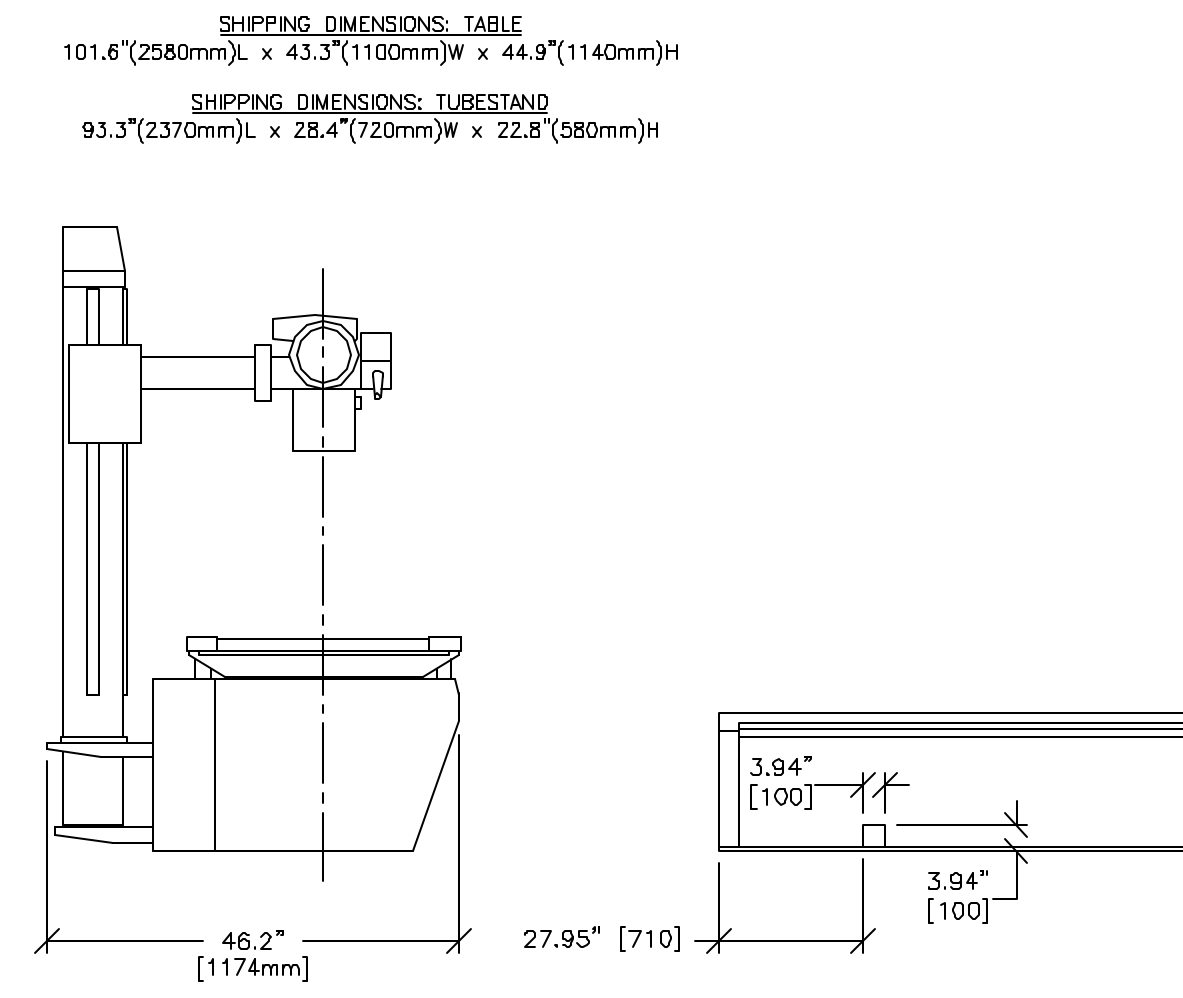
FRONT VIEW

DETAIL NOT TO SCALE

EQUIPMENT DETAIL
SILHOUETTE VR TABLE

B05-49B

REV. DATE: 12/18/09



SIDE VIEW

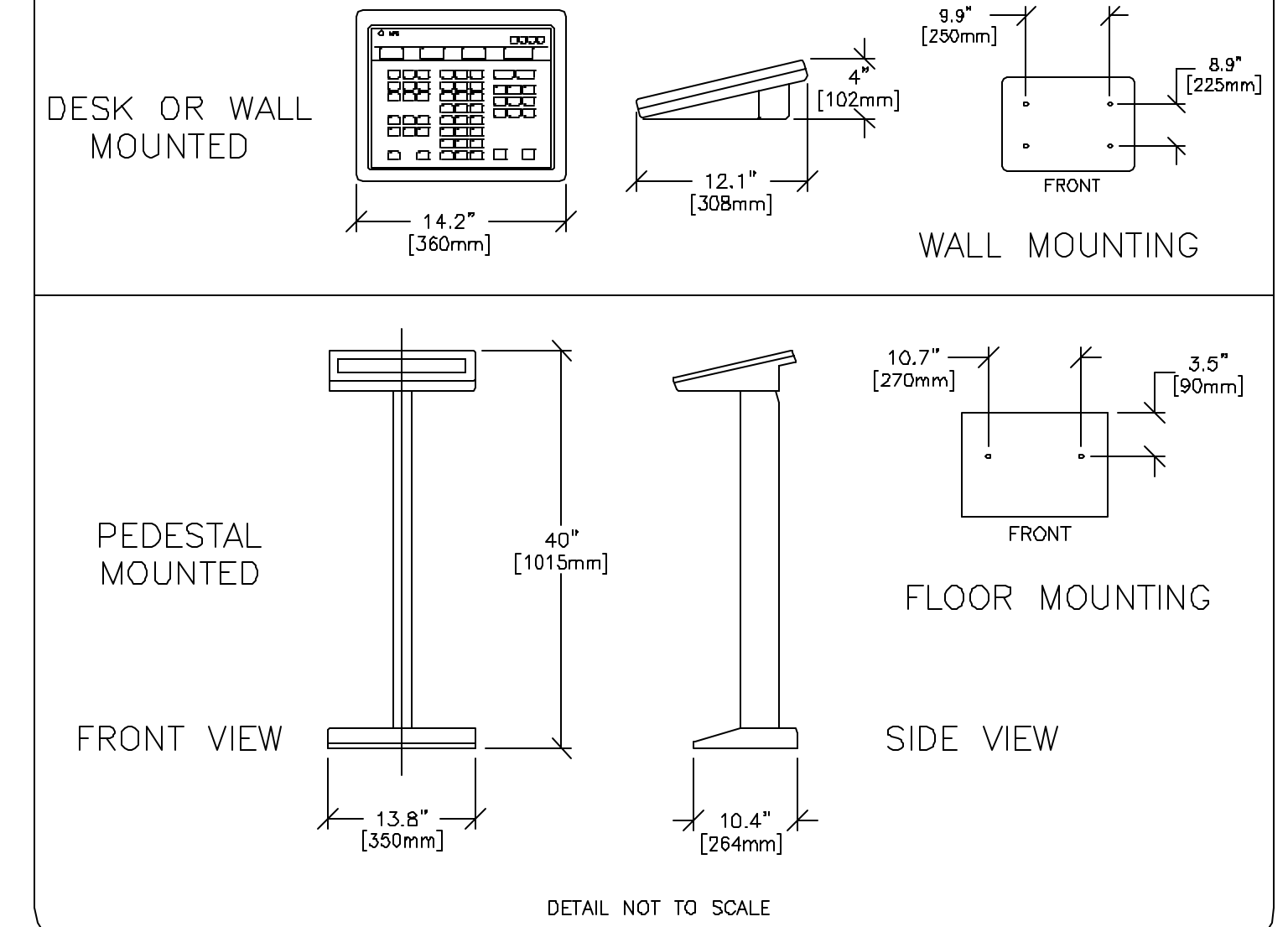
CABLE ENTRANCE
(BACK OF TABLE)

DETAIL NOT TO SCALE

EQUIPMENT DETAIL
SILHOUETTE VR OPERATOR CONSOLE

B05-49E

REV. DATE: 08/25/99



DESK OR WALL MOUNTED

PEDESTAL MOUNTED

FRONT VIEW

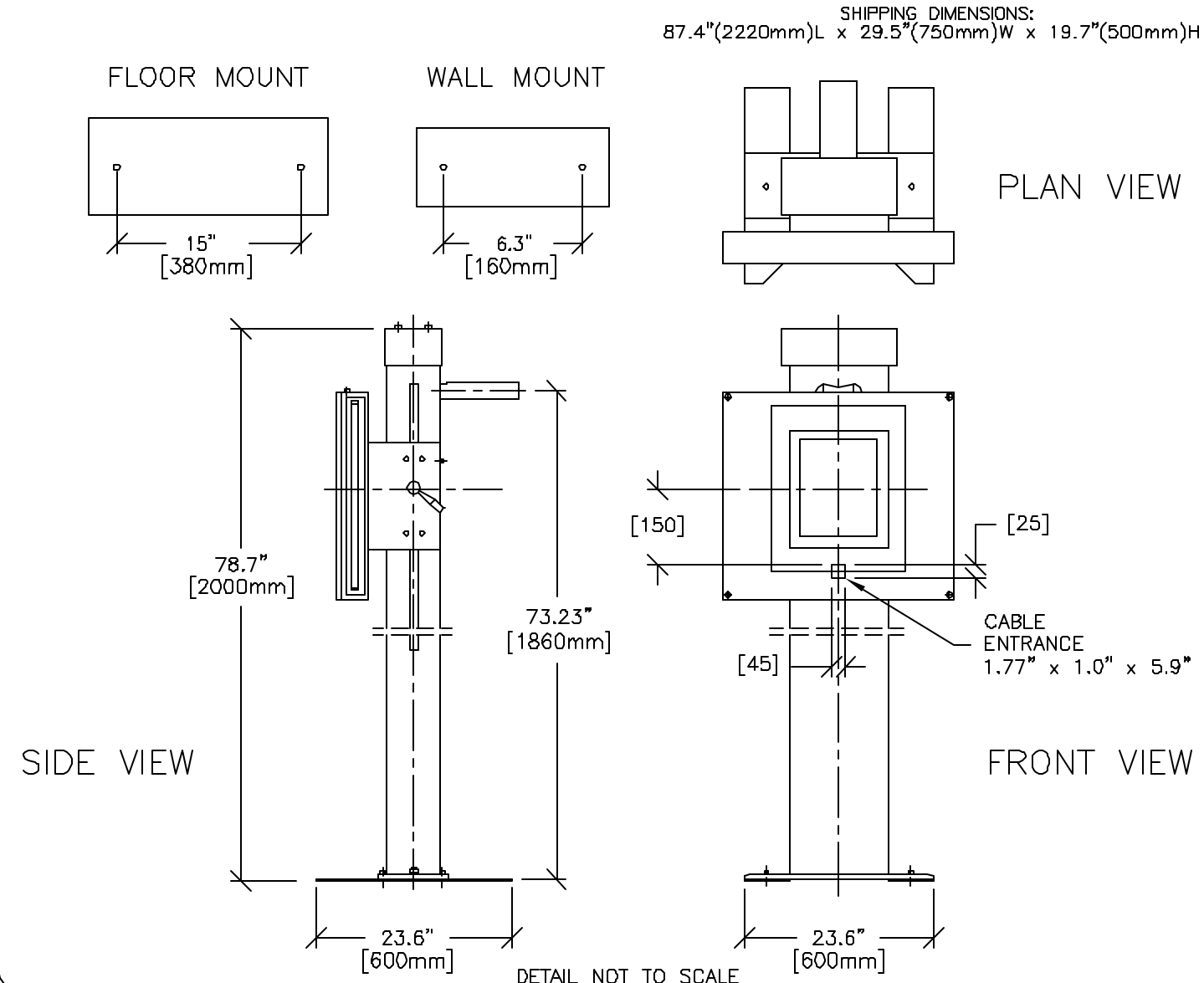
SIDE VIEW

DETAIL NOT TO SCALE

EQUIPMENT DETAIL
SILHOUETTE VR WALL STAND

B05-49D

REV. DATE: 12/18/09



PLAN VIEW

FRONT VIEW

DETAIL NOT TO SCALE

SHEET TITLE: EQUIPMENT DETAILS
MODALITY TYPE: SILHOUETTE VR

THIS PLAN IS SUBMITTED IN SUGGESTION OF GE HEALTHCARE EQUIPMENT AS AN ILLUSTRATION. IT IS NOT TO BE USED FOR CONSTRUCTION. IN PREPARING THIS PLAN, EVERY EFFORT HAS BEEN MADE TO CONFORM DETAILS TO ACTUAL EQUIPMENT EXPECTED TO BE INSTALLED. GE HEALTHCARE ASSUMES NO RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:

1-120f
TYPICAL LAYOUT

PROJECT	REVISION
1-120f	10

DATE: 12-31-09
DRAWN BY: DJH
CHECKED BY: JDR

REVISION HISTORY:

SHEET
D1