

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 *

LightSpeed VCT
Pre Installation Manual
5116410-100

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



CT 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 IS site. Equipment will not be delivered if these requirements are not satisfied.

GE Healthcare Site Readiness Checklist Rev 19					
Before using this document, ensure you have the latest Rev from MyWorkshop on DOC042752					
GHC Global Order #:		Customer:			
GHC PIM #:		FE / Installer:			
The customer is responsible for proper site preparation regardless of any GEHC measurements/inspections/assessments.					
Inspection Date	Storage ready?	PIM Is it ready?	FE Is it ready?	Comments	If "N", enter comments or action plan
1					MR Magnet Delivery Requirements: Ensure cryogen venting system is available for magnet connection as defined by GEHC Pre-Installation Manual (PIM) requirements, exhaust fan system is installed and operational, 480V power, and chilled water supply is available 24x7 that meets system cooling requirements. External connectivity is available for magnet in building and phone service is available during delivery. Surface in cut-view at installed where required. Magnet room final flooring is in place.
2					MR RF Screen Room Requirements: RF Screen Room is tested with copy of Test Report, emailed to ISAdmin@GEHC.com, that it is compliant with GEHC specifications. Dock Bolt and magnet anchors (if applicable) installed using 2 part anchors. For HDa systems, blower box mount belts installed by RF vendor using 2 part anchors.
3					State Regulatory Requirements: Facility registration has been provided for states of <u>IL, IN, MI, IL, SC, TN, & WA</u> . X-ray shielding plan and state acknowledgment letter provided to installer for AR, DC, NC, SD, CO, & WA.
4					Site Drawing Requirements: Final version of equipment network and antenna, installation drawings (including red lined versions) 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 OR surface penetration permit available and posted in the room when GEHC will perform the work.
6					Pre-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/notifications have occurred. Arrangements have been made for special handling (elevator, rigging, floor protection, fork lift, millback/truck, etc).
7					Finished Room Requirements: Rooms that will contain equipment, including storage areas: not in scum suits, are dustfree. Provisions taken to maintain a dustfree room. Precautions must be taken to prevent dust from entering rooms containing equipment when construction is incomplete in adjacent areas. All walls primed/final coat not needed on Day 1. Shielding, doors, and windows are to be installed. No contractor work being done during or after the installation that will cause dust in the installation areas or potential equipment damage. Room security to prevent unauthorized access and theft has been discussed with customer. The customer is aware of these security issues, implications and responsibility. For Storage Room must meet PIM requirements for storage.
8					Electrical Requirements: Lockable (LOTO) Main Disconnect Panel (MDP) is installed per GE guidelines and system power is available. Conduits, electrical cable ducting/dividers/cable trays, and access flooring is installed in preparation and height. Surface floor dust and lead-side wires can be installed at time of system installation. Validate w/det location and requirements meet specifications for device/equipment.
9					HVAC Requirements: The HVAC/Chilled water system is designed to maintain the environment per spec/PIM is at running state and appears to provide the desired environmental conditions including location of vents, temperature and humidity for system operation.
10					Flooring Requirements: Floors are clean and prepared for final floor covering. Floor levelness/flatness is measured and within tolerance, and there are no visible defects per GEHC specifications. Confirm customer anchoring plan aligns with designed floor thickness. Final flooring installed where required for network cabling.
11					Ceiling Requirements: Unistrut for equipment location, levelness and spacing is measured for vendor confirmed and consistent with the requirements of the installation drawings. Ensure unistrut and rails are not used as mounting surfaces. Ceiling grid is installed. Permanent lighting is installed and operational. HVAC diffusers are installed and connected to ductwork. Ceiling tiles installed per PIM discretion.
12					Staging Requirements: Space has been identified to support the active installation process only. This area meets PIM grab-it-back requirements. Storage space has been identified, if needed. This secured space would be used to store equipment indefinitely. If offsite, transportation plan has been developed at customer expense. This space must meet PIM requirements.
13					Network Connectivity: Hardware for network connectivity (network drop) is in place prior to delivery with specified network firewall configuration where required. Site surveys for wireless mobile RR units have been completed.
14					Medical Gases Requirements: Systems (hard piped or portable) in place to allow testing and calibration of a gas analyser (the sicc), including ventilation.

GE Healthcare
IS Services Design Center
Milwaukee, Wisconsin
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SHEET TITLE: SITE READINESS
MODALITY TYPE: LIGHTSPEED VCT W/ GT2000
THIS PLAN IS SUBMITTED TO SUGGEST LOCATION OF GE HEALTHCARE EQUIPMENT. THE CUSTOMER'S RESPONSIBILITY IS TO VERIFY THAT ALL NECESSARY PERMITS AND APPROVALS HAVE BEEN OBTAINED. IN PREPARING THIS PLAN, EVERY EFFORT HAS BEEN MADE TO CONFORM TO ALL APPLICABLE REGULATIONS. TO ACTUAL EQUIPMENT EXPECTED TO BE INSTALLED. IT IS NOT TO BE USED FOR CONSTRUCTION PURPOSES. GE HEALTHCARE ASSUMES NO LIABILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE: 6-56f
TYPICAL LAYOUT
(2000 TABLE)

PROJECT	REVISION
6-56f	05
DATE:	28.Sep.12
DRAWN BY:	JGA
CHECKED BY:	PMM

REVISION HISTORY:

SHEET
C1

GE EQUIPMENT LISTING

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

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

ITEM NO.	QUANTITY ORDERED	REFER TO SHEET "D"	ITEM DESCRIPTION (* = EXISTING/REINSTALL)	WEIGHT	HEAT OUTPUT (PER HOUR)	DETAIL NO.	STRC PLAN	ELEC PLAN
1	1		OPERATOR'S CONSOLE / COMPUTER	493 lbs	6000 btu	B7858A	-	DC
2	1		OPERATOR'S CHAIR			B7858D	-	PM
3	1		POWER DISTRIBUTION UNIT	701 lbs		M33005	-	PM
4	1		STORAGE CABINET (EMPTY CABINET WEIGHT)	99 lbs				
5	1		CT Lightspeed VCT (STU'S INCLUDE GANTRY, TABLE, & PDU)	4049 lbs	35000 btu	B7864D B7864E B7864A B7864C B7864E1 B78645B	B78 64	CTT
6	1		GT2000 PATIENT TABLE WITH EXTENDED TABLE TOP	1250 lbs		B7920	-	-
7	1		REAR CABLE COVER			B8141	-	-

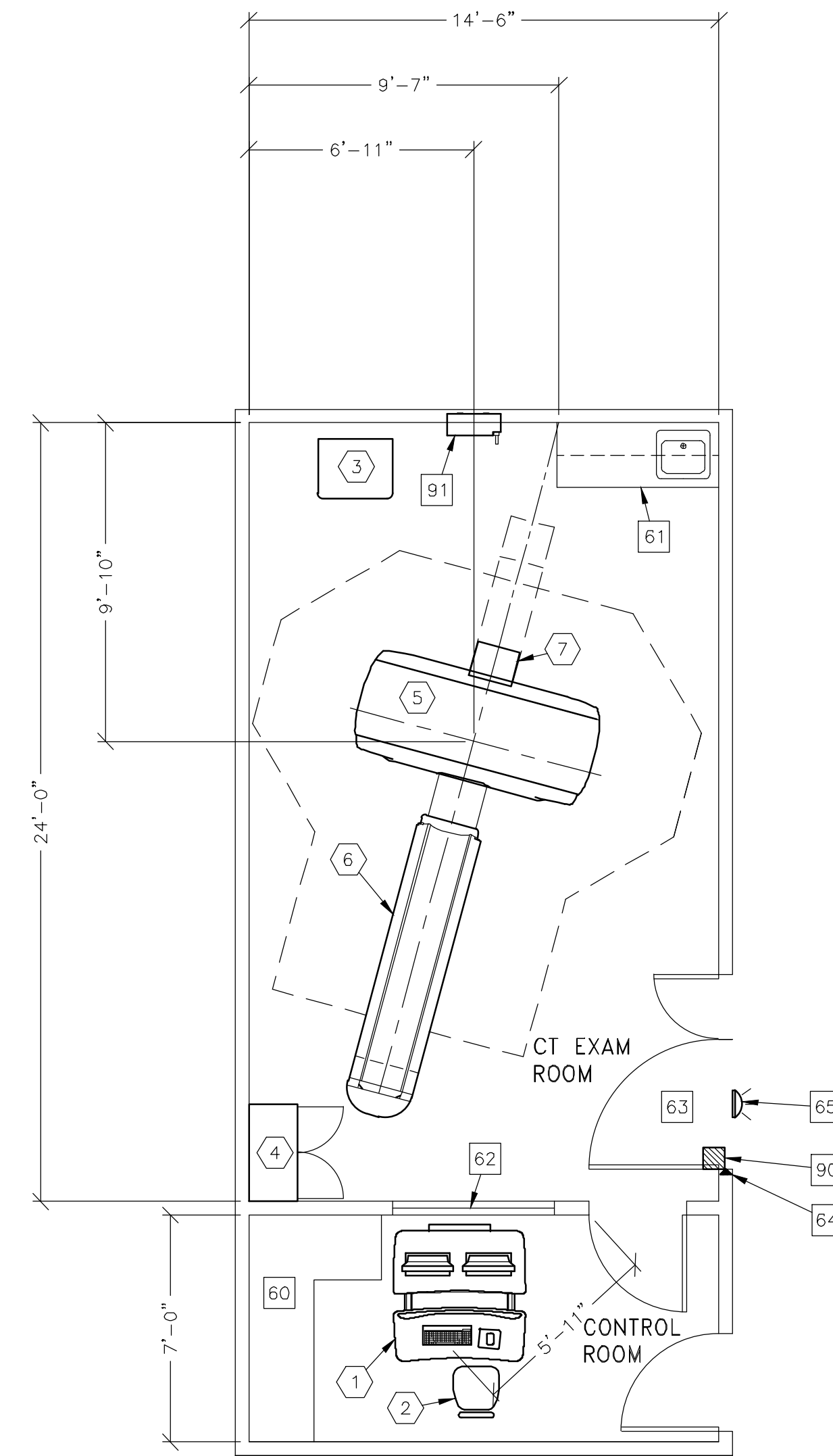
EQUIPMENT CROSS REFERENCE CHART
P = PREAPPROVAL
C = CALCULATIONS/
SEISMIC STATUS PENDING APPROVAL
S = SPECIFICATIONS ONLY

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

EQUIPMENT LAYOUT

RECOMMENDED CEILING HEIGHT = 9'-0"

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



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

ANCILLARY ITEMS
CUSTOMER/CONTRACTOR SUPPLIED AND INSTALLED ITEMS

ITEM NO.	ITEM DESCRIPTION (* INDICATES EXISTING)
80	COUNTER TOP FOR EQUIPMENT-- PROVIDE GROMMETED OPENINGS AS REQUIRED TO ROUTE INTERCONNECT CABLES TO RACEWAY BELOW COUNTERTOP.
81	COUNTER TOP WITH SINK, BASE AND WALL CABINETS
82	LEAD GLASS WINDOW
83	MINIMUM DOOR OPENING FOR EQUIPMENT DELIVERY IS 44 IN. W. X 83 IN. H. (118mm X 2108mm), CONTINGENT ON A 36 IN. (2438mm) CORRIDOR WIDTH
84	DOOR LIMIT SWITCH (REQUIRED IN SOUTH CAROLINA OTHERWISE NEEDED ONLY IF REQUIRED BY STATE/LEGAL CODES)
85	X-RAY ON WARNING LIGHT - AVAILABLE FROM GE SUPPLY CALL: 800-800-9760 GE CAT. NO. WX1ABWV-DF-XIU

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

80	X-RAY ROOM WARNING LIGHT CONTROL PANEL REFERENCE JUNCTION POINT 'WLC' ON SHEET 'E1' FOR DETAILED DESCRIPTION -E450ERL FOR WARNING LIGHT CONTROL ONLY.
91	MAIN DISCONNECT CONTROL

GENERAL SPECIFICATIONS

- THE REQUIRED CEILING HEIGHT INDICATED ON THESE PLANS IS TO ENSURE EQUIPMENT FUNCTION IS NOT IMPAIRED. CONSULT WITH YOUR LOCAL GEHC IS SPECIALIST REGARDING ACCEPTABILITY OF OTHER CEILING HEIGHTS.
- CHECK ALL DOOR OPENINGS AND HALLWAYS FROM DELIVERY LOCATION TO WHERE EQUIPMENT IS TO BE INSTALLED TO ENSURE THE ROUTE PHYSICALLY AND STRUCTURALLY WILL ACCOMMODATE THE EQUIPMENT AS SHIPPED.
- RADIATION PROTECTION REQUIREMENTS ARE NOT INDICATED ON THIS PLAN. WHERE NEEDED PER NATIONAL OR LOCAL CODE THEY SHALL BE SPECIFIED BY A QUALIFIED RADIOLOGICAL PHYSICIST.
- THE DEVELOPMENT OF THE EQUIPMENT LAYOUT, ROOM DIMENSIONS, MECHANICAL AND ELECTRICAL SUGGESTIONS IS PREDICATED UPON THE BEST INFORMATION OBTAINABLE FROM THE SITE, COUPLED WITH THE CUSTOMER'S KNOWN DESIRES. ARCHITECTURAL OR ELECTRICAL CHANGES INCLUDING RELOCATION OF EQUIPMENT ILLUSTRATED ON THIS DRAWING IS ALLOWED ONLY WITH NOTIFICATION, IN WRITING, AND REVIEW BY GEHC SERVICE DEPARTMENT. EQUIPMENT OPERATION, SERVICEABILITY, AND RESTRICTING CABLE LENGTHS, ETC., MAKE THIS ESSENTIAL FOR A PROPER IS. GEHC RESERVES THE RIGHT TO MAKE ON THE JOB CHANGES BECAUSE OF CUSTOMER REQUIREMENTS AND/OR OBSTACLES IN CONSTRUCTION, ETC..
- ALL WORK TO BE IN COMPLIANCE WITH NATIONAL AND LOCAL BUILDING SAFETY CODES.
- DIMENSIONS ARE TO FINISHED SURFACES OF ROOM

SITE ENVIRONMENT SPECIFICATIONS

- AMBIENT OPERATING TEMPERATURE:
SCAN ROOM: TEMPERATURE RANGE 64°-79° F (18°-26° C)
CONTROL ROOM: MAINTAIN TEMPERATURE AT 72° F (22° C)
- MAXIMUM TEMPERATURE RATE OF CHANGE OF 5° F (3° C)/HOUR.
- HUMIDITY: 30 TO 60 PERCENT NON-CONDENSING DURING OPERATION (ALL AREAS)
- MAXIMUM RELATIVE HUMIDITY RATE OF CHANGE IS 5 PER CENT RH/HOUR.
- ALTITUDE: NOT TO EXCEED 10,000 FT. (3050M) 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 OR AIR EXHAUST OF THE SYSTEM COMPONENTS.
- ENVIRONMENTAL CONDITIONS LISTED ABOVE MUST BE MAINTAINED AT ALL TIMES INCLUDING FOR EXAMPLE OVERNIGHT, WEEKENDS, AND HOLIDAYS.

MAGNETIC INTERFERENCE SPECIFICATIONS

- CT GANTRY MUST BE LOCATED IN AMBIENT STATIC MAGNETIC FIELDS OF LESS THAN ONE GAUSS TO GUARANTEE SPECIFIED IMAGING PERFORMANCE. AMBIENT AC MAGNETIC FIELDS MUST BE BELOW 0.01 GAUSS PEAK.
- CT COMPUTER EQUIPMENT MUST BE LOCATED IN AMBIENT STATIC MAGNETIC FIELDS OF LESS THAN TEN GAUSS TO GUARANTEE DATA INTEGRITY.
- CT CONTROL EQUIPMENT MUST BE LOCATED IN AMBIENT STATIC MAGNETIC FIELDS OF LESS THAN LISTED BELOW TO OBTAIN SPECIFIED GEOMETRIC LINEARITY.

CONSOLE/COMPUTER	10 GAUSS
CRT MONITOR	1 GAUSS
LCD MONITOR	50 GAUSS

SHEET TITLE: EQUIPMENT LAYOUT
MODALITY TYPE: LIGHTSPEED VCT W/ GT2000

THIS PLAN IS SUBMITTED TO SUGGEST LOCATION OF GE HEALTHCARE EQUIPMENT. GE HEALTHCARE MAKES NO WARRANTY, REPRESENTATION OR GUARANTEE IN PREPARING THIS PLAN. EVERY EFFORT HAS BEEN MADE TO CORRECT DETAILS TO ACTUAL EQUIPMENT EXPECTED TO BE INSTALLED. IT IS NOT TO BE USED FOR CONSTRUCTION PURPOSES. GE HEALTHCARE ACCEPTS NO LIABILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:
6-56f
TYPICAL LAYOUT
(2000 TABLE)

PROJECT	REVISION
6-56f	05

DATE: 28.Sep.12
DRAWN BY: JGA
CHECKED BY: PMM

REVISION HISTORY:

SHEET
A1

PIM R19

GE Healthcare
IS Services Design Center
Milwaukee, Wisconsin

TYPICAL WALL SUPPORT ELEVATIONS

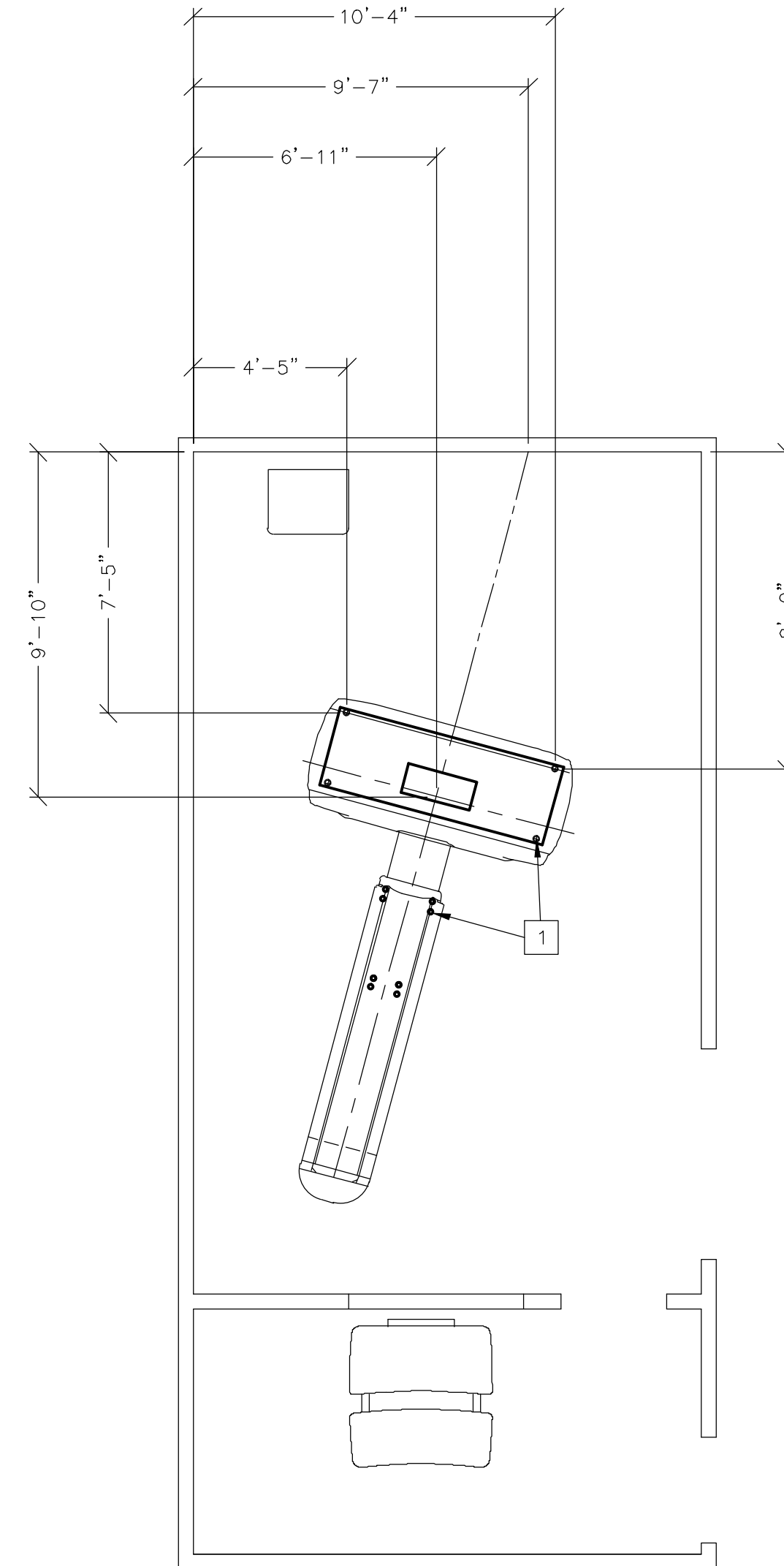
SCALE: 1/4" = 1'-0"

STRUCTURAL LAYOUT

REQUIRED CEILING HEIGHT = 9'-0"

STRUCTURAL SUPPORT METHODS
CUSTOMER/CONTRACTOR SUPPLIED AND INSTALLED ITEMS

ITEM NO.	ITEM DESCRIPTION (* INDICATES EXISTING)
1	LEVELING AREA FOR GANTRY AND TABLE SEE DETAIL B7B-64 ON SHEET S2.



STRUCTURAL NOTES

- o ALL STEEL WORK AND PARTS NECESSARY TO SUPPORT CEILING MOUNTED EQUIPMENT IS TO BE SUPPLIED BY THE CUSTOMER OR HIS CONTRACTORS.
- o 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.
- o 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.
- o ALL CEILING MOUNTED FIXTURES, AIR VENTS, SPRINKLERS, ETC. TO BE FLUSH MOUNTED, OR SHALL NOT EXTEND MORE THAN 1/4" BELOW THE FINISHED CEILING.
- o FLOOR SLABS ON WHICH EQUIPMENT IS TO BE INSTALLED MUST BE LEVEL TO 1/8" IN 10'-0"
- o DIMENSIONS ARE TO FINISHED SURFACES OF ROOM.
- o CUSTOMERS CONTRACTOR MUST PROVIDE ALL PENETRATIONS IN POST TENSION FLOORS.
- o CUSTOMERS CONTRACTOR MUST PROVIDE AND INSTALL ANY NON-STANDARD ANCHORING. DOCUMENTS FOR STANDARD ANCHORING METHODS ARE INCLUDED WITH GE EQUIPMENT FOR DRAWINGS GEOGRAPHIC AREAS THAT REQUIRE SUCH DOCUMENTATION.
- o 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.

SHEET TITLE: STRUCTURAL LAYOUT
MODALITY TYPE: LIGHTSPEED VCT W/ GT2000

THIS PLAN IS SUBMITTED TO SUGGEST LOCATION OF GE HEALTHCARE EQUIPMENT. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD. 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 CONSTRUCTION PURPOSES. THE COMPANY CANNOT ACCEPT RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:
6-56f
TYPICAL LAYOUT
(2000 TABLE)

PROJECT	REVISION
6-56f	05

DATE: 28.Sep.12
DRAWN BY: JGA
CHECKED BY: PMM

REVISION HISTORY:

SHEET
S1

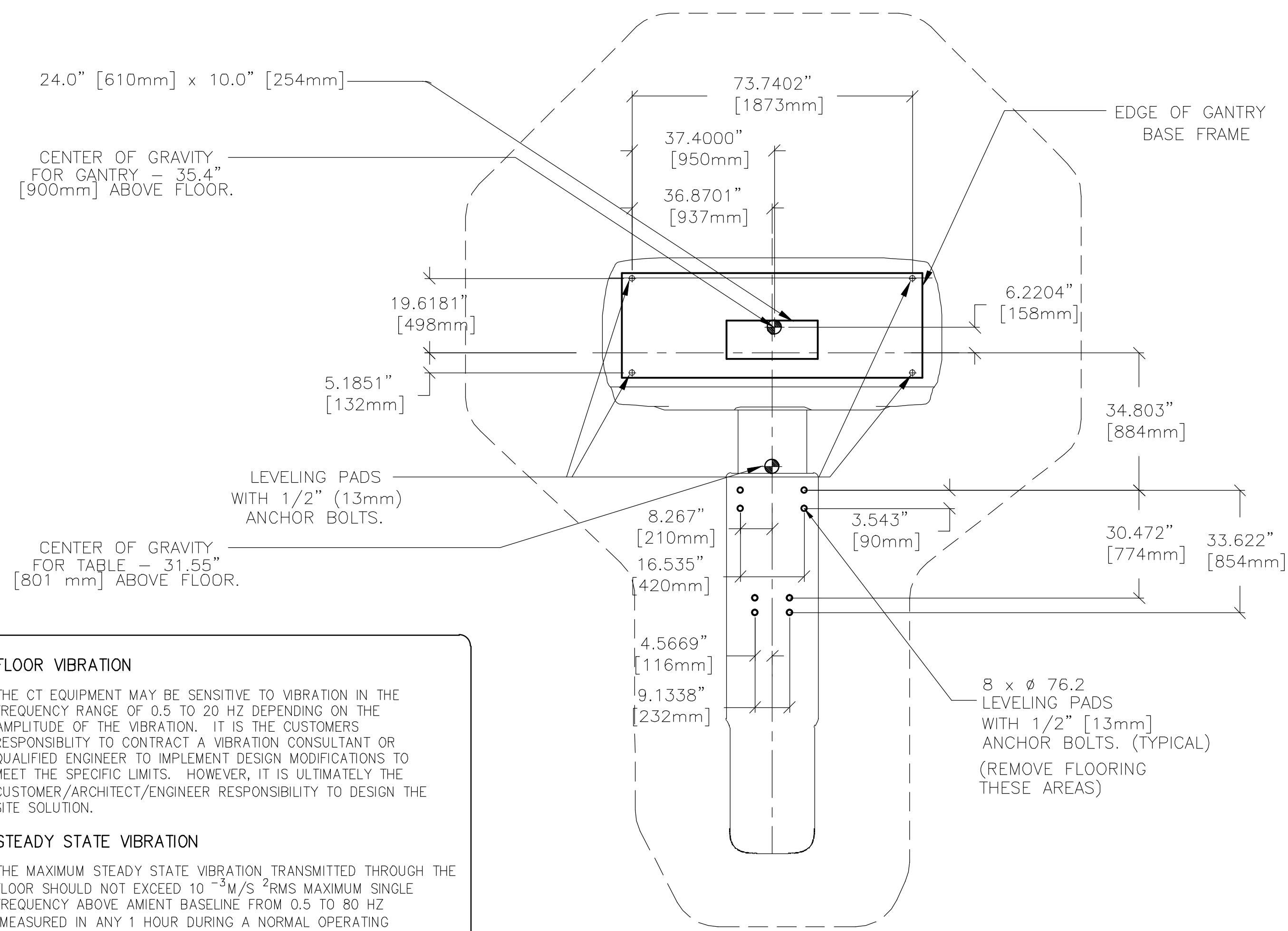
P111 R19

GE Healthcare
IS Services Design Center
Milwaukee, Wisconsin

CT GANTRY AND TABLE ANCHOR/LEVELING

B78-64

REV. DATE: 11/12/10



FLOOR VIBRATION

THE CT EQUIPMENT MAY BE SENSITIVE TO VIBRATION IN THE FREQUENCY RANGE OF 0.5 TO 20 HZ DEPENDING ON THE AMPLITUDE OF THE VIBRATION. IT IS THE CUSTOMERS RESPONSIBILITY TO CONTRACT A VIBRATION CONSULTANT OR QUALIFIED ENGINEER TO IMPLEMENT DESIGN MODIFICATIONS TO MEET THE SPECIFIC LIMITS. HOWEVER, IT IS ULTIMATELY THE CUSTOMER/ARCHITECT/ENGINEER RESPONSIBILITY TO DESIGN THE SITE SOLUTION.

STEADY STATE VIBRATION

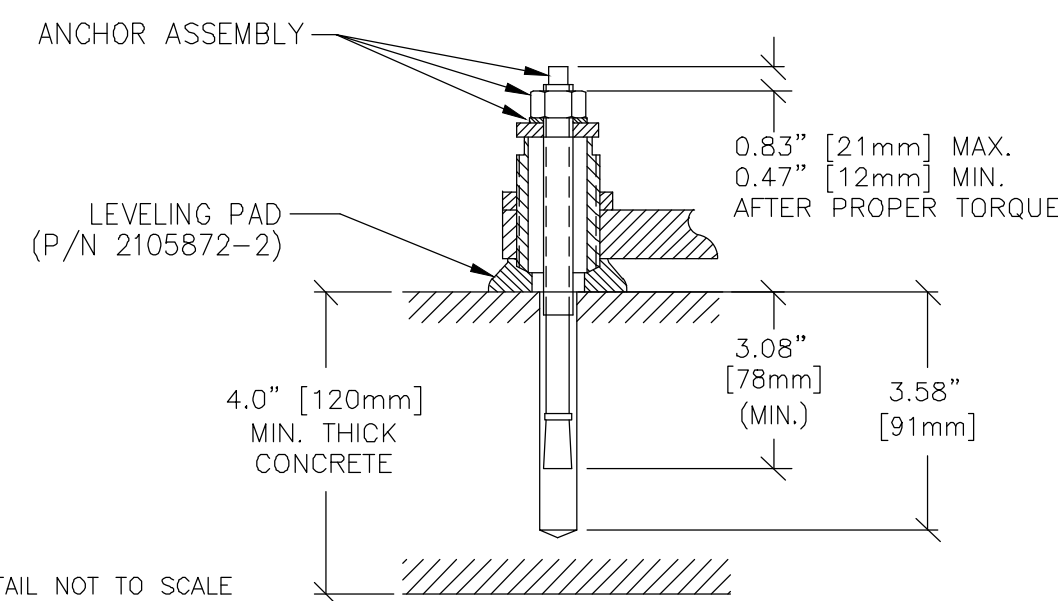
THE MAXIMUM STEADY STATE VIBRATION TRANSMITTED THROUGH THE FLOOR SHOULD NOT EXCEED 10^{-3} M/S² RMS MAXIMUM SINGLE FREQUENCY ABOVE AMBIENT BASELINE FROM 0.5 TO 80 HZ (MEASURED IN ANY 1 HOUR DURING A NORMAL OPERATING PERIOD).

TRANSIENT VIBRATION

THE BEHAVIORAL CHARACTERISTICS MUST BE SUCH THAT ANY MEASUREABLE TRANSIENT DISTURBANCE MUST ALSO BE MINIMIZED TO LESS THAN 0.01 M/S² PEAK-TO-PEAK.

EQUIPMENT LOCATION

TO MINIMIZE THE INTERFERENCE, THE SYSTEM SHOULD BE PLACED ON A SOLID FLOOR, LOCATED AS FAR AS POSSIBLE FROM THE VIBRATION SOURCES, SUCH AS PARKING LOTS, ROADWAYS, SUBWAYS, TRAINS, HALLWAYS, ELEVATORS, AND HOSPITAL PHYSICAL PLANTS. PLEASE NOTE THAT OTHER ITEMS NOT LISTED COULD ALSO BE POTENTIAL SOURCES OF VIBRATION.



DETAIL NOT TO SCALE

SHEET TITLE: STRUCTURAL DETAILS
 MODALITY TYPE: LIGHTSPEED VCT W/ GT2000
 THIS PLAN IS SUBMITTED TO SUGGEST LOCATION OF GE HEALTHCARE EQUIPMENT. THE LOCATION OF THE EQUIPMENT IS NOT TO BE CONSIDERED FINAL. 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 CONSTRUCTION PURPOSES. THE COMPANY CANNOT ACCEPT RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:
 6-56f
 TYPICAL LAYOUT
 (2000 TABLE)

PROJECT	REVISION
6-56f	05
DATE:	28.Sep.12
DRAWN BY:	JGA
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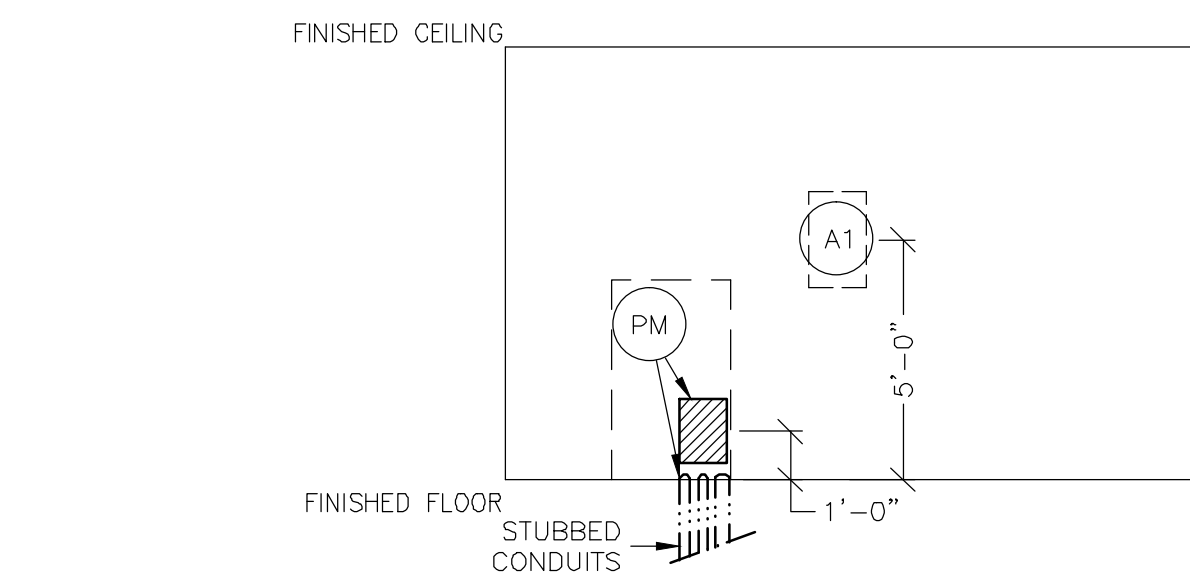
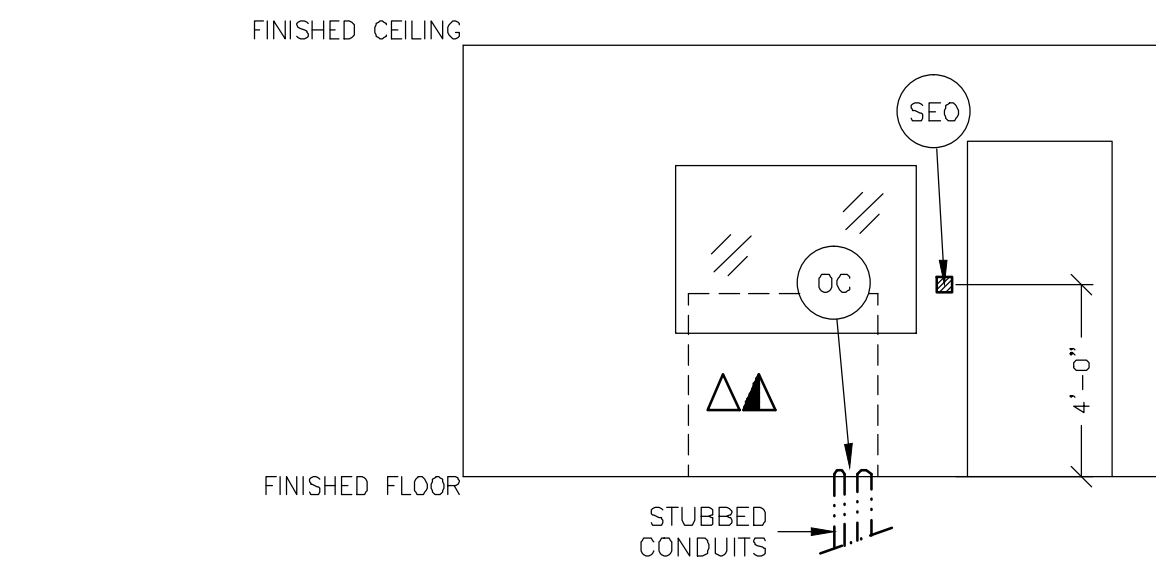
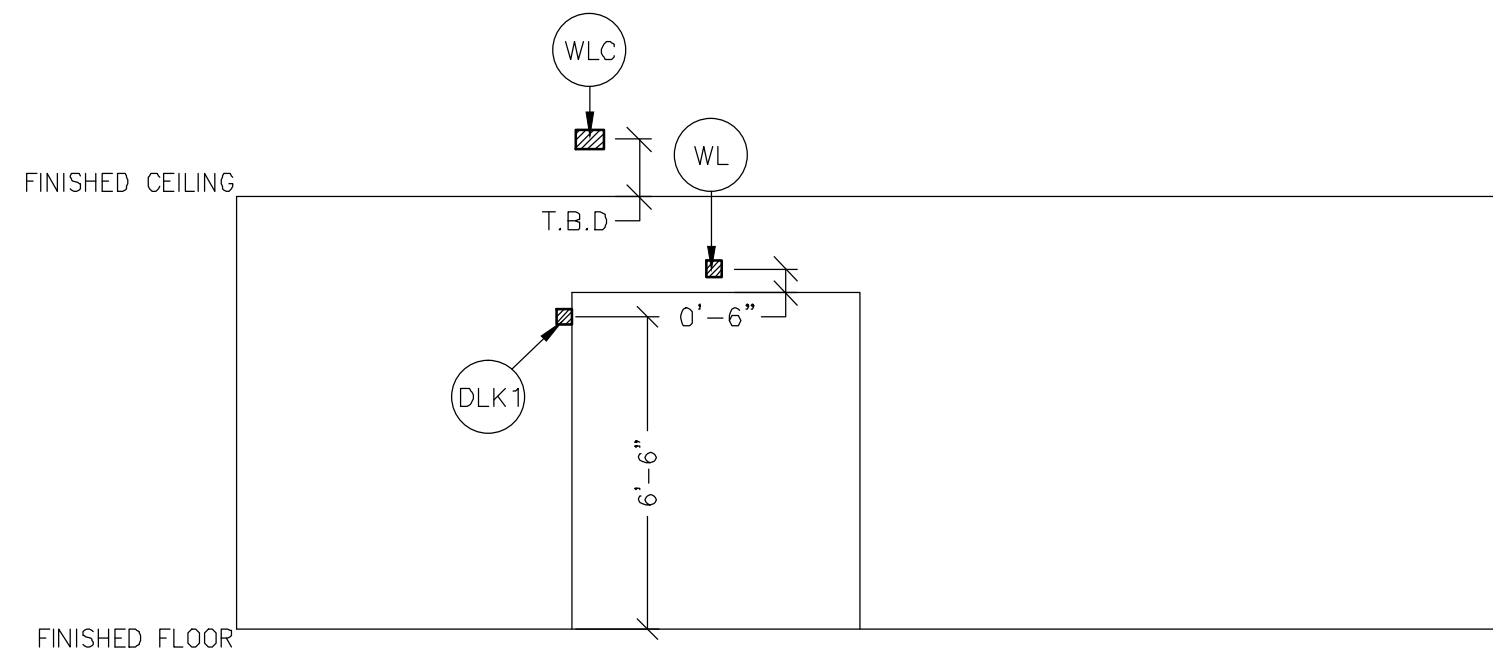
REVISION HISTORY:

SHEET
 S2

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

ELECTRICAL PLAN

REQUIRED CEILING HEIGHT = 9'-0"



DUCT HATCHING LEGEND

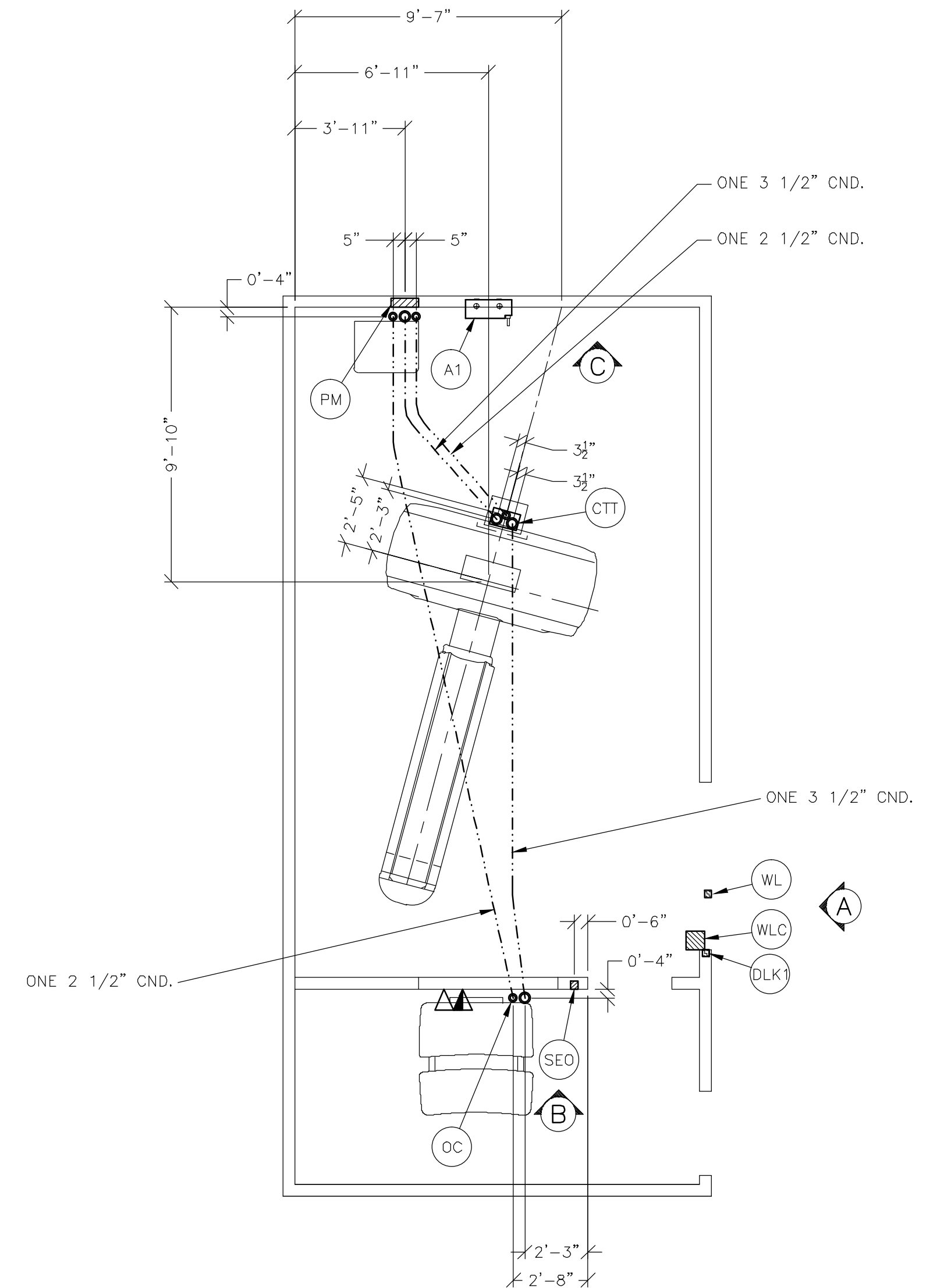
	ABOVE CEILING DUCT
	UNDER FLOOR DUCT
	TRENCH DUCT (FLUSH FLOOR)
	SURFACE FLOOR DUCT
	ABOVE CEILING CONDUIT
	BELOW FLOOR CONDUIT

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

	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)

- JUNCTION POINT NOTES**
- ALL JUNCTION BOXES, CONDUIT, DUCT, DUCT ENDERS, 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.
 - ALL OPENINGS IN ACCESS FLOORING ARE TO BE CUT OUT AND FINISHED OFF WITH GROMMET MATERIAL BY THE CUSTOMER'S 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 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.

PLEASE SEE BELOW FOR ADDITIONAL REQUIRED CONDUIT RUNS AND SIZES.



ADDITIONAL CONDUIT RUNS FOR ALL LIGHTSPEED, DISCOVERY, BRIGHTSPEED, OPTIMA SYSTEMS AND THE HISPEED QX/i (BY CONTRACTOR)

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

TO	FROM	CONDUIT SIZE
WLC	TO WLC	ONE 1/2" CND.
WLC	TO PM	ONE 1/2" CND.
PM	TO A1	ONE CND. AS REQ'D
A1	TO SEO	ONE 1/2" CND.
A1	TO FEEDER	ONE CND. AS REQ'D
WLC	TO 120-V 1Ø POWER	CND. AS REQ'D
DLK1	TO PM	ONE 1/2" CND.

NOTE: SEE E2 PAGE FOR MAXIMUM RUN LENGTHS

FEEDER TABLE - CT LightSpeed Pro 16/RT/VCT, DISCOVERY CT750/590, OPTIMA CT580

6 CALCULATIONS BASED UPON NOMINAL VOLTAGE, WIRE SIZE IN AWG.
 6 MINIMUM FEEDER SIZES FROM DISTRIBUTION TRANS. TO POWER DISTRIBUTION UNIT.
 6 THE RECOMMENDED GROUNDING CONDUCTOR (G) WILL BE A 1/0 MINIMUM. THIS GROUND 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.
 6 NEUTRAL MUST BE TERMINATED PRIOR TO OR INSIDE THE MAIN DISCONNECT PANEL AND NOT BROUGHT INTO THE POWER DISTRIBUTION UNIT.
 6 FOR A FULL SYSTEM UPS REFER TO ELECTRICAL DETAILS FOR UPS FEEDER WIRES.

RUN LENGTH IN FEET	POWER SUPPLY VOLTAGE											
	342-418 360		360-440 400		378-462 420		396-484 440		414-506 460		432-528 480	
	FEEDER	GROUND	FEEDER	GROUND	FEEDER	GROUND	FEEDER	GROUND	FEEDER	GROUND	FEEDER	GROUND
50	1/0	(1/0)	1/0	(1/0)	1/0	(1/0)	1	(1/0)	1	(1/0)	1	(1/0)
100	1/0	(1/0)	1/0	(1/0)	1/0	(1/0)	1	(1/0)	1	(1/0)	1	(1/0)
150	1/0	(1/0)	1/0	(1/0)	1/0	(1/0)	1	(1/0)	1	(1/0)	1	(1/0)
200	1/0	(1/0)	1/0	(1/0)	1/0	(1/0)	1	(1/0)	1	(1/0)	1	(1/0)
250	2/0	(1/0)	2/0	(1/0)	1/0	(1/0)	1/0	(1/0)	1	(1/0)	1	(1/0)
300	3/0	(1/0)	3/0	(1/0)	2/0	(1/0)	2/0	(1/0)	1/0	(1/0)	1/0	(1/0)
350	4/0	(1/0)	3/0	(1/0)	3/0	(1/0)	2/0	(1/0)	2/0	(1/0)	1/0	(1/0)
400	250M	(1/0)	4/0	(1/0)	3/0	(1/0)	3/0	(1/0)	3/0	(1/0)	2/0	(1/0)

REV. DATE: 18.May.11

JUNCTION POINT DESCRIPTIONS

POINT	DESCRIPTION	QTY.	HARDWARE	DETAIL NO., SHT. E3
A1	MAIN DISCONNECT AVAILABLE FROM GEMC CALL: 800-558-5102 OR LOCAL GE INSTALLATION PROJECT MGR.	1	125 AMP FUSED DISCONNECT AND MAGNETIC CONTACTOR GEMC CAT. NO. E4502AE 1 3/4" PUSHBUTTON AND COVER INCLUDED.	ELEC-135
CTT	CT SCANNER	2	3 1/2" IN. DIA. BUSHING & LOCKNUT 1 1/2" IN. DIA. BUSHING & LOCKNUT	ELEC-9
DLK1	DOOR SWITCH (NEEDED ONLY IF REQUIRED BY STATE/LOCAL CODES)	1	ROOM DOOR INTERLOCK LIMIT SWITCH IN FRAME - NORMALLY OPEN (24V) 1 SINGLE GANG BOX	ELEC-9
OC	OPERATORS CONSOLE	1	3 1/2" IN. DIA. BUSHING & LOCKNUT 1 1/2" IN. DIA. BUSHING & LOCKNUT	ELEC-9
PM	POWER DISTRIBUTION UNIT	1	SPLIT COVERPLATE 3 1/2" IN. DIA. BUSHING & LOCKNUT 1 1/2" IN. DIA. BUSHING & LOCKNUT 1 1/2" IN. 90 DEGREE CONNECTOR 16 FT. LENGTH OF 2 IN. FLEXIBLE METAL CONDUIT SUITABLE CONNECTORS 12 X 16 X 4 IN. BOX 6 FT. LENGTH OF 1/2 IN. FLEXIBLE METAL CONDUIT	ELEC-9-22
SEO	EMERGENCY OFF	1	SINGLE GANG 2 1/2 IN. DEEP FLUSH MOUNTED JUNCTION BOX.	ELEC-16
WL	WARNING LIGHT	1	X-RAY ON INCANDESCENT LIGHT FIXTURE DO NOT USE FLUORESCENT FIXTURES GE CAT. NO. WX1ABWW-DF-XIU	ELEC-72
WLC	WARNING LIGHT CONTROLLER AVAILABLE FROM GEMC CALL: 800-558-5102 OR LOCAL GE INSTALLATION PROJECT MGR.	1	E4902BL WARNING LIGHT CTRLR OR EQUIVALENT MAX 24V CONTROLLER	ELEC-72

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
WLC > 1 PHASE	1-ND. 14 BLACK, 1-ND. 14 WHITE, 1-ND. 14 GREEN
WL > WLC	2-ND. 14 BLACK, 1-ND. 14 RED, 1-ND. 14 WHITE
PM > WLC	2-ND. 14 BLACK, 2-ND. 14 WHITE, 1-ND. 14 GREEN
PM > DLK1	1-ND. 14 BLACK, 1-ND. 14 WHITE, 1-ND. 14 GREEN
A1 > SEO	1-ND. 14 BLACK, 1-ND. 14 WHITE, 1-ND. 14 GREEN
A1 > PDU	3-BLACK, 1 GREEN - REFER TO FEEDER TABLE
480V > A1	3 BLACK, 1 GREEN - REFER TO FEEDER TABLE

Wisconsin
GE Healthcare
 IS Services Design Center
 Milwaukee, WI

SHEET TITLE: ELECTRICAL LAYOUT
 MODALITY TYPE: LIGHTSPEED VCT W/ GT2000
 THIS PLAN IS SUBMITTED TO SUGGEST LOCATION OF GE HEALTHCARE EQUIPMENT. IT IS NOT TO BE USED FOR CONSTRUCTION. IN PREPARING THIS PLAN, EVERY EFFORT HAS BEEN MADE TO CONFORM TO ALL APPLICABLE CODES AND REGULATIONS. THE COMPANY CANNOT ACCEPT RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:
 6-56f
 TYPICAL LAYOUT
 (2000 TABLE)

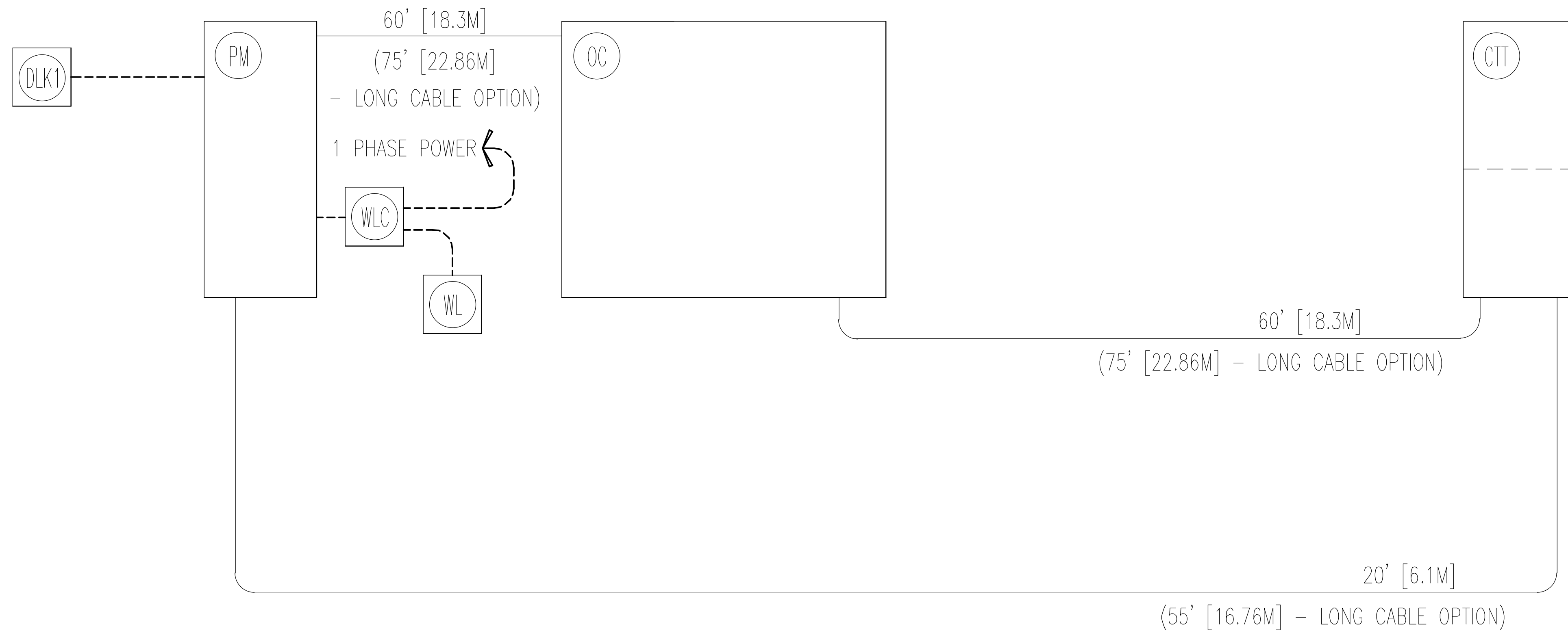
PROJECT	REVISION
6-56f	05

DATE: 28.Sep.12
 DRAWN BY: JGA
 CHECKED BY: PMM

REVISION HISTORY:

SHEET
E1

INTERCONNECT DIAGRAM



POWER SPECIFICATIONS

CT LightSpeed Pro 16/RT/VCT, DISCOVERY CT750/590, OPTIMA CT580

(REV. DATE 18.May.11)

VOLTAGE PRIMARY SOURCE IS REQUIRED FOR ALL INSTALLATIONS. RANGE OF LINE VOLTAGES: NOMINAL LINE VOLTAGE OF 380 TO 480, 3 PHASE, 50 OR 60 HZ.
REQUIRED POWER SUPPLY: WYE-CONNECTED

TABLE A ALLOWABLE INPUT VOLTAGES/ CURRENT DEMAND

NOMINAL VOLTAGE	ABSOLUTE RANGE	CURRENT (AMPS)		MINIMUM STANDARD OVERCURRENT PROTECTION
		MAXIMUM	CONTINUOUS	
380	342-418	253	38	150-A
400	360-440	241	36	150-A
420	378-462	229	34	150-A
440	396-484	219	33	125-A
460	414-506	209	31	125-A
480	432-528	200	30	125-A

(ALL CALCULATIONS BASED UPON NOMINAL VOLTAGE)

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 1 CYCLE AND FREQUENCY OF 10 TIMES PER HOUR.

VOLTAGE TRANSIENT OR IMPULSE ON THE INCOMING POWER MUST BE HELD TO A MINIMUM. TRANSIENTS CAUSED BY LIGHTNING SURGES, LOAD SWITCHING, STATIC ELECTRICITY ETC. CAN CAUSE SCAN ABORTS OR, IN EXTREME INSTANCES, COMPONENT FAILURE IN THE COMPUTER SUBSYSTEM.

POWER DEMAND CONTINUOUS POWER DEMAND = 25 KVA (MAX DEMAND = 150 KVA)

TABLE B MAXIMUM MOMENTARY POWER DEMAND.

DEMAND	CT HiSpeed
kVa *	150
POWER FACTOR AT	0.85

* DEMAND INCLUDES POWER FOR ENTIRE CT 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 225 KVA. GE DOES NOT RECOMMEND USING A REGULATION DEVICE.

NOTE: THE CT SYSTEM MUST NOT BE POWERED IN A MULTIPLE INSTALLATION WHERE FILM CHANGERS ARE USED. FILM CHANGERS UTILIZE A LARGE NUMBER OF HIGH POWERED CLOSELY SPACED EXPOSURES WHICH MAY COINCIDE WITH THE CT SCAN.

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.
- 59' [18M] MAXIMUM RUN LENGTH BETWEEN JUNCTION POINTS. Feet [Meters]

SHEET TITLE: ELECTRICAL SPECIFICATIONS
MODALITY TYPE: LIGHTSPEED VCT W/ GT2000

THIS PLAN IS SUBMITTED TO SUGGEST LOCATION OF GE HEALTHCARE EQUIPMENT. 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. IT IS NOT TO BE USED FOR CONSTRUCTION PURPOSES. GE HEALTHCARE ACCEPTS NO LIABILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:
6-56f
TYPICAL LAYOUT
(2000 TABLE)

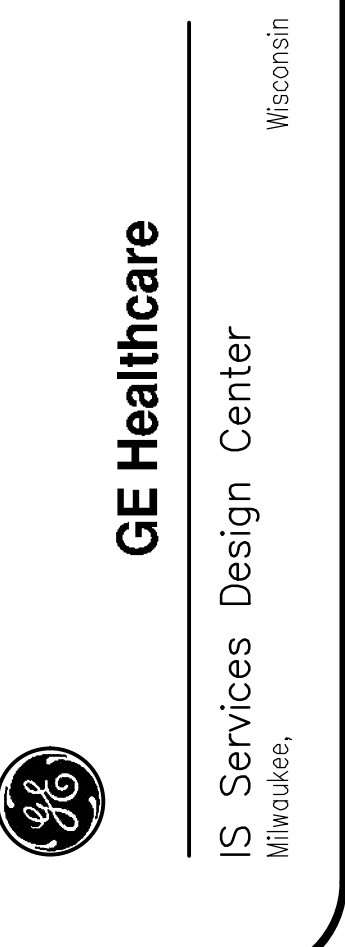
PROJECT	REVISION
6-56f	05

DATE: 28.Sep.12
DRAWN BY: JGA
CHECKED BY: PMM

REVISION HISTORY:

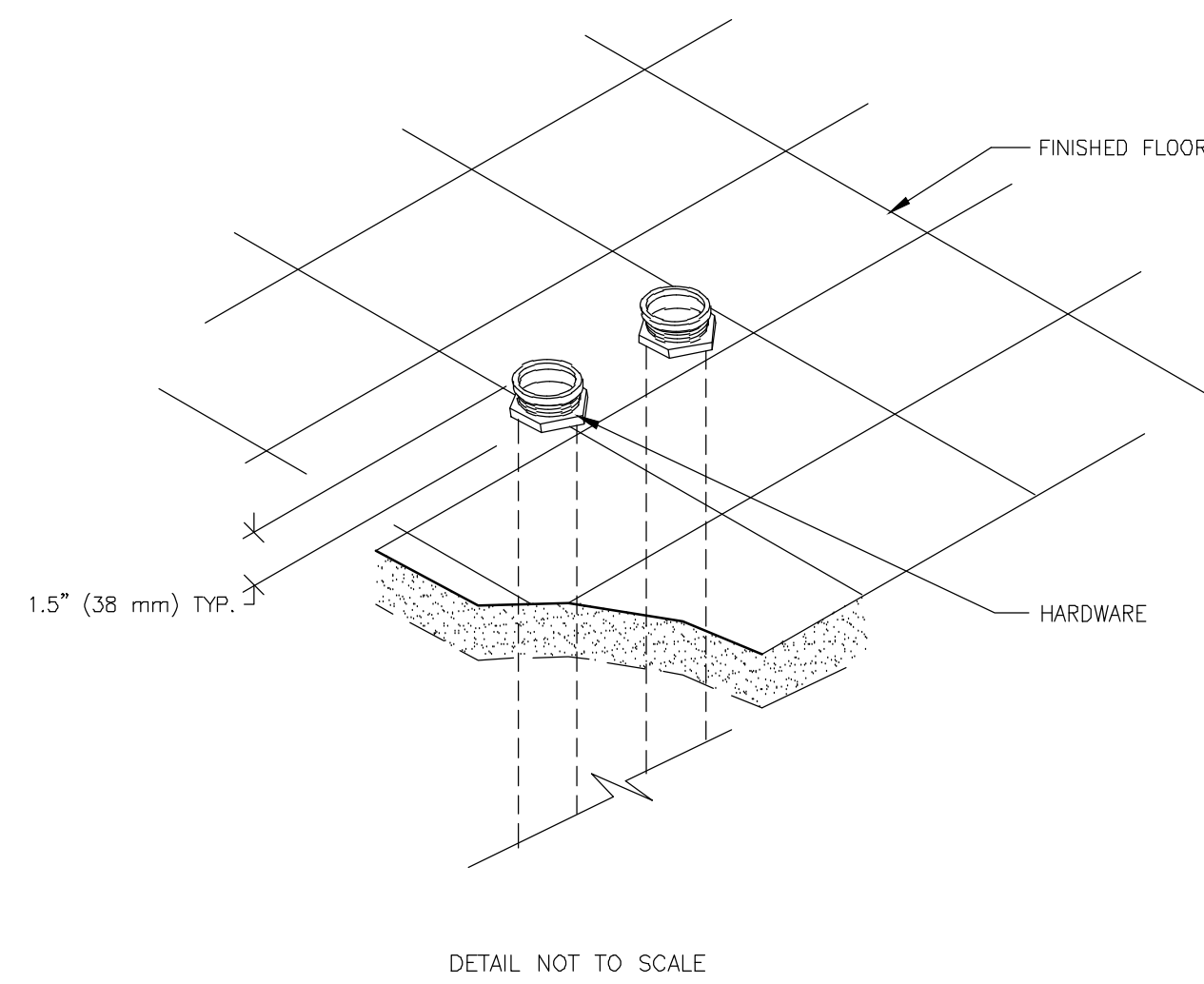
SHEET
E2

PIM R19



ELECTRICAL DETAIL
CONDUITS THRU-FLOOR (TYPICAL)

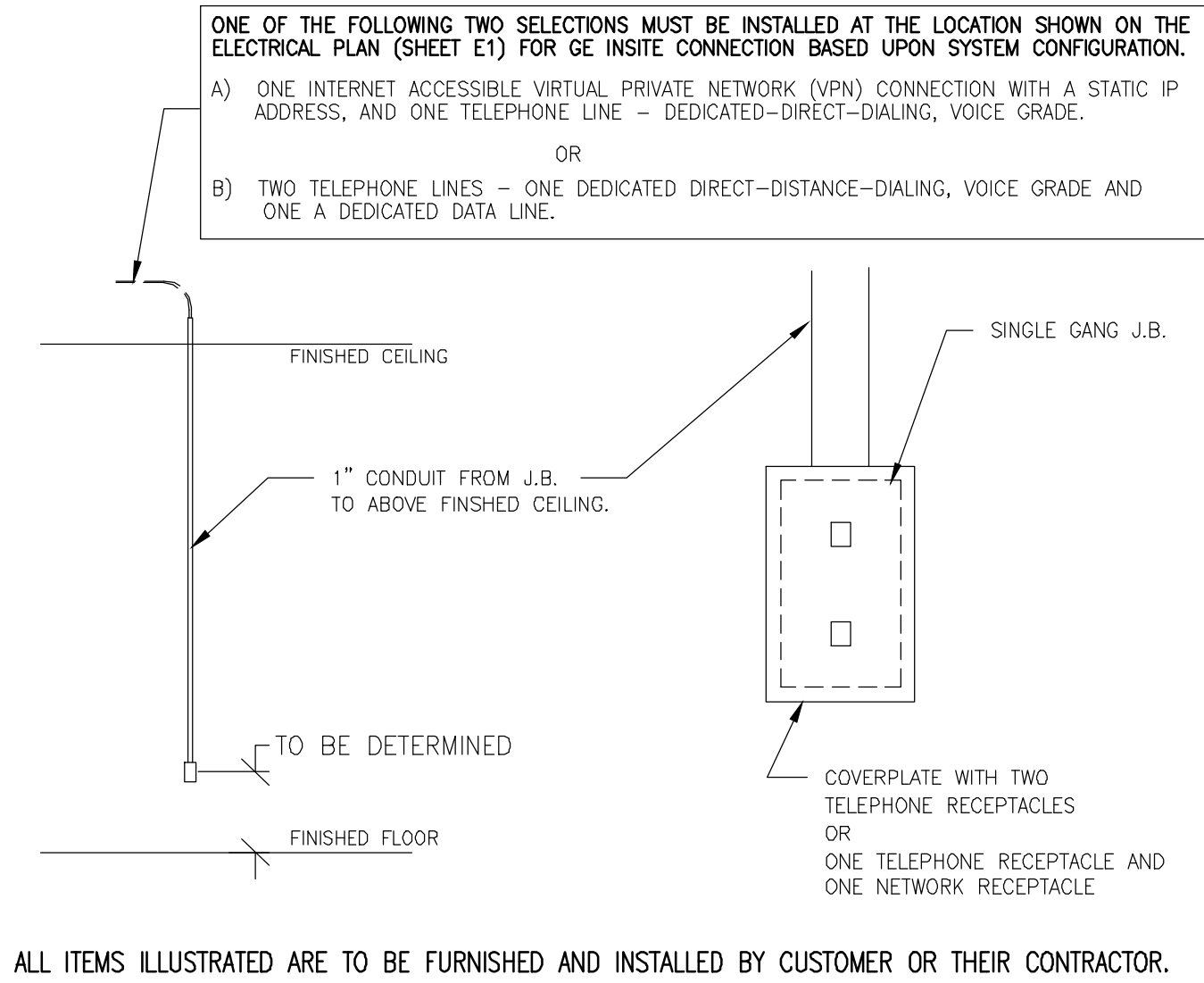
ELEC-9
REV. DATE: 08/08/94



DETAIL NOT TO SCALE

ELECTRICAL DETAIL
INSITE CONNECTION (TYPICAL)

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

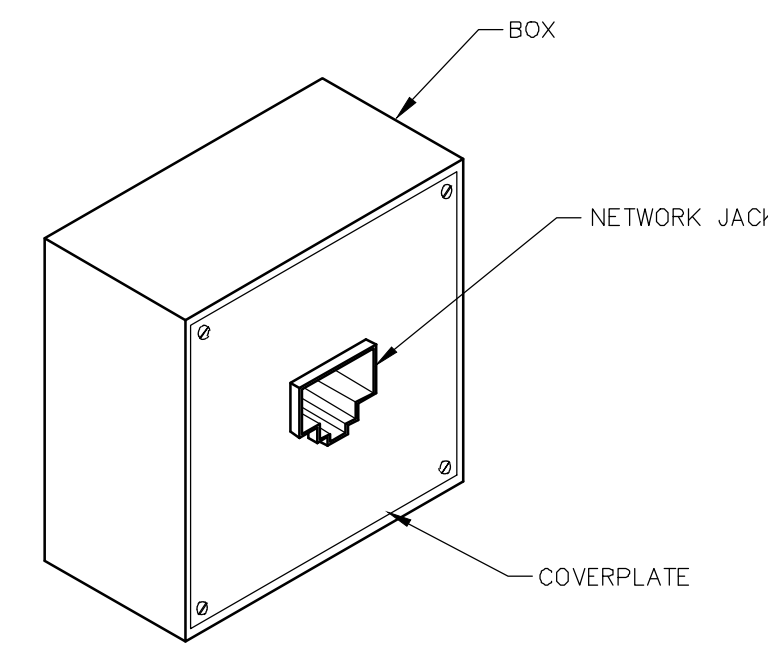


ALL ITEMS ILLUSTRATED ARE TO BE FURNISHED AND INSTALLED BY CUSTOMER OR THEIR CONTRACTOR.

DETAIL NOT TO SCALE

ELECTRICAL DETAIL
BOX WITH COVERPLATE AND NETWORK JACK

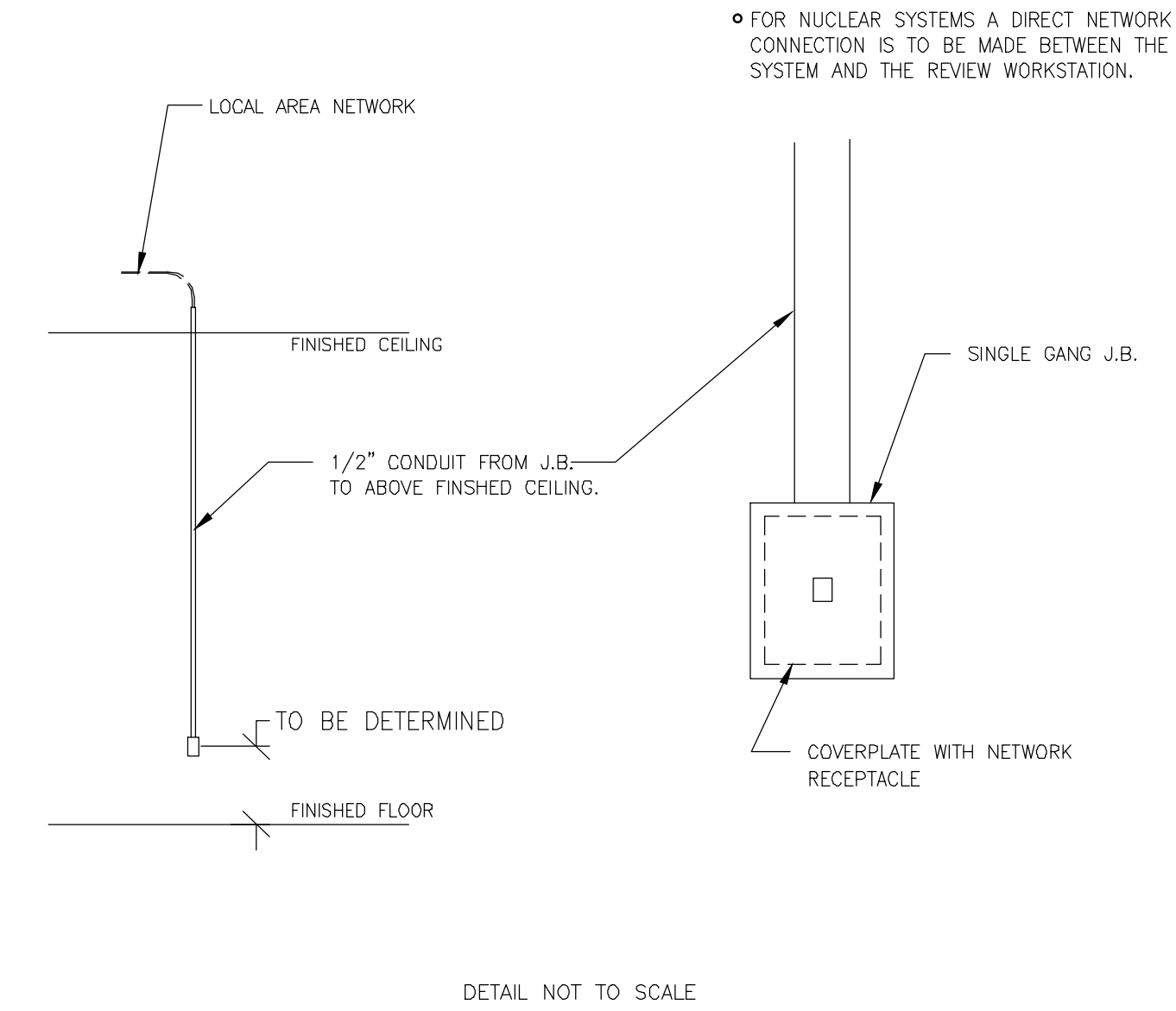
ELEC-83
REV. DATE: 10/06/98



DETAIL NOT TO SCALE

ELECTRICAL DETAIL
NETWORK CONNECTION (TYPICAL)

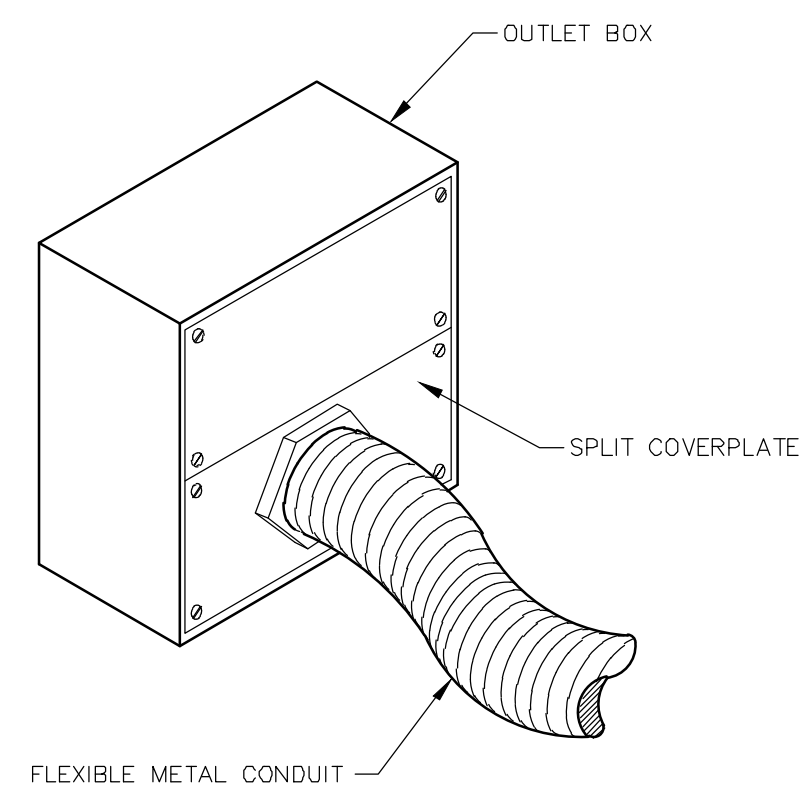
ELEC-84
REV. DATE: 03/06/04



DETAIL NOT TO SCALE

ELECTRICAL DETAIL
BOX WITH SPLIT COVERPLATE (TYPICAL)

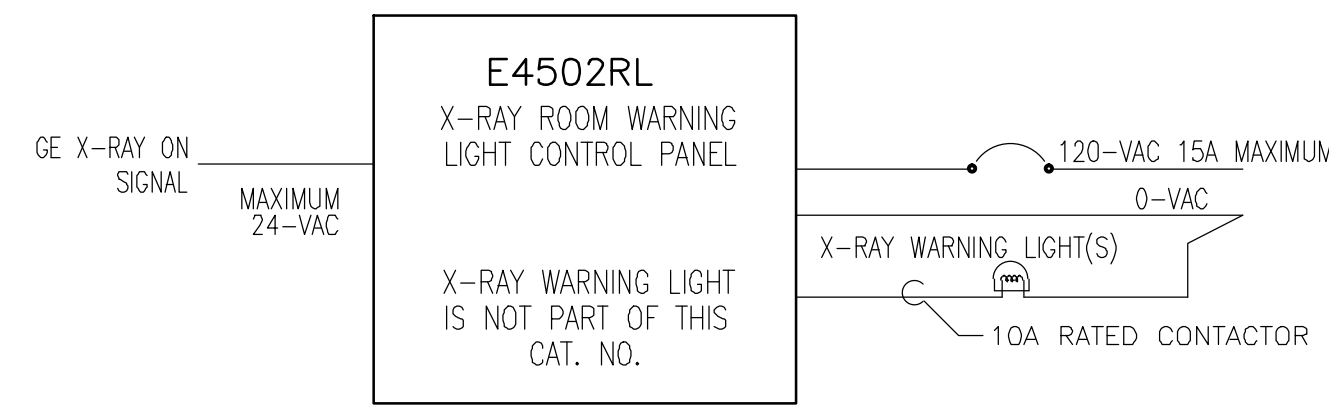
ELEC-22
REV. DATE: 10/13/94



DETAIL NOT TO SCALE

ELECTRICAL DETAIL
WARNING LIGHT DIAGRAM

ELEC-72
REV. DATE: 05/14/09

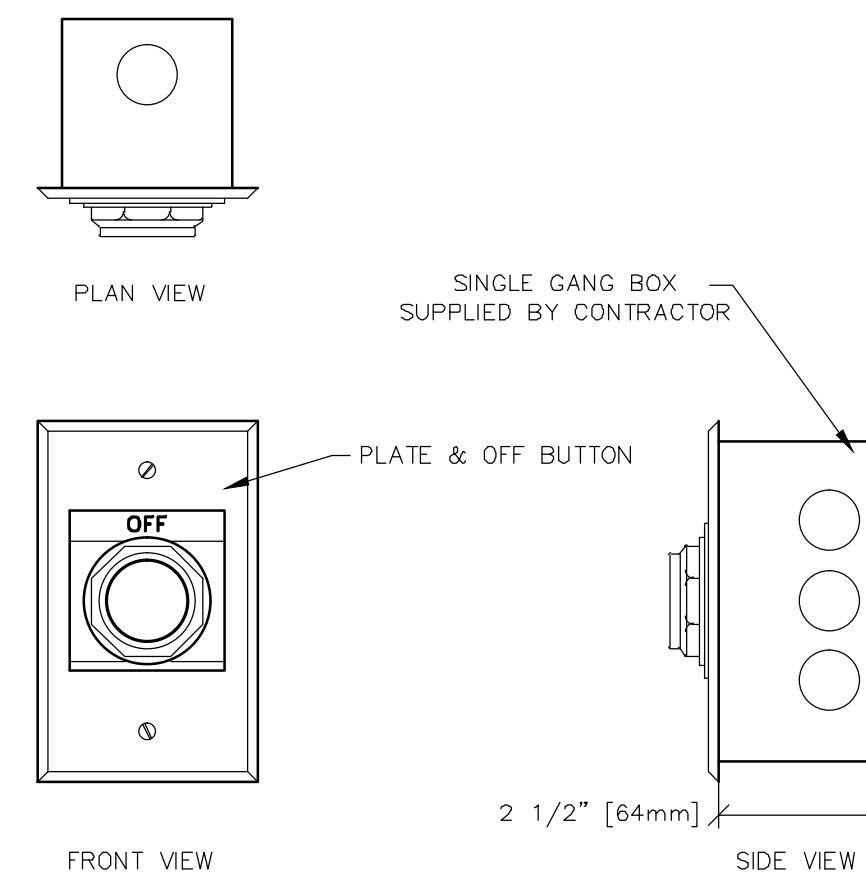


UNLESS SPECIFIED ON SHEET A1 AS BEING INCLUDED ON EQUIPMENT ORDER, ALL ITEMS ILLUSTRATED ARE TO BE FURNISHED AND INSTALLED BY CUSTOMER'S CONTRACTOR

DRAWING NOT TO SCALE

ELECTRICAL DETAIL
EMERGENCY OFF BUTTON

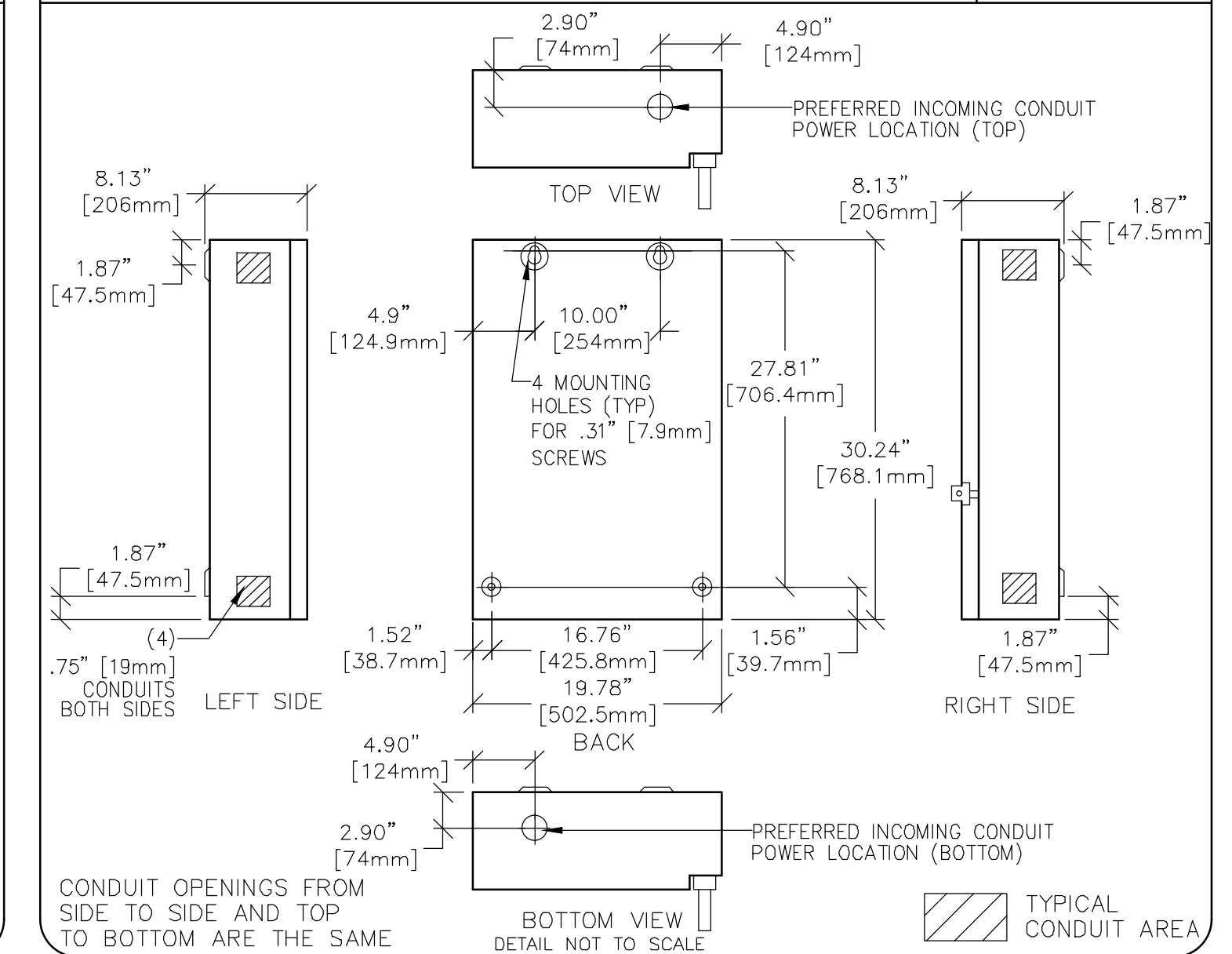
ELEC-16
REV. DATE: 05/14/09



DETAIL NOT TO SCALE

ELECTRICAL DETAIL
MAIN DISCONNECT PANEL

ELEC-135
REV. DATE: 09/27/04



CONDUIT OPENINGS FROM SIDE TO SIDE AND TOP TO BOTTOM ARE THE SAME

DETAIL NOT TO SCALE

TYPICAL CONDUIT AREA

SHEET TITLE: ELECTRICAL DETAILS

MODALITY TYPE: LIGHTSPEED VCT W/ GT2000

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PROJECT TITLE:

6-56f
TYPICAL LAYOUT
(2000 TABLE)

PROJECT: 6-56f REVISION: 05

DATE: 28.Sep.12
DRAWN BY: JGA
CHECKED BY: PMM

REVISION HISTORY:

SHEET
E3

