

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 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 *

Discovery LS
Preinstallation Manual
2317947-100

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



PET-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

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.						
Item #	GEHC Minimum Requirements	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	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 PMI 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 PMI 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

SHEET TITLE: SITE READINESS
MODALITY TYPE: DISCOVERY LS

PROJECT TITLE:
TYPICAL CT-PET
12-10F
TYPICAL INSTALLATION DRAWINGS

PROJECT	REVISION
12-10F	03
DATE:	06-29-08
DRAWN BY:	DMH
CHECKED BY:	AJS

REVISION HISTORY:

SHEET
C1

GE Healthcare Technologies
Installation Services Design Center
Milwaukee, Wisconsin

THIS PLAN IS SUBMITTED TO SUBMIT LOCATIONS OF GE HEALTHCARE EQUIPMENT AND ASSOCIATED REPAIRS, 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 RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM. COMPANY CANNOT ACCEPT

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	S	EQUIPMENT CROSS REFERENCE CHART	
										SESMIC STATUS	ONLY
1	1		CT UPS SYSTEM	551 lbs	3689 btu	PS050UF	---	UPSC	S		
2	1		PET UPS SYSTEM	551 lbs	3689 btu	PS050UF	---	UPSP	S		
3	1		ELECTRONICS CABINET	418 lbs	11945 btu	PS050C	---	EC	S		
4	1		DISCOVERY LS SCANNER	10582 lbs	30365 btu	PS052B B7996ME B7996MF PS052 PS052A	PS0	CTPT	S		
5	1		PATIENT TABLE (WITHOUT PATIENT)	1854 lbs	699 btu		---		S		
6	1		LARGE SCS1 BDX	30 lbs	784 btu	PS050G	---	SCS1	S		
7	1		ENTEGRA WORKSTATION					WS	S		
8	1		OPERATOR'S CONSOLE / COMPUTER	661 lbs	10238 btu	B7996K		OC	S		
9	1		OPERATOR'S CHAIR						-		
10	1		POWER DISTRIBUTION UNIT	800 lbs	3412 btu	B7996L		PDU	C		

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

11	1		STEP DOWN TRANSFORMER	156 lbs		PS050H	---	TRAN	S		
12	1		MAIN DISCONNECT CONTROL	110 lbs		PS050AH		AL	-		

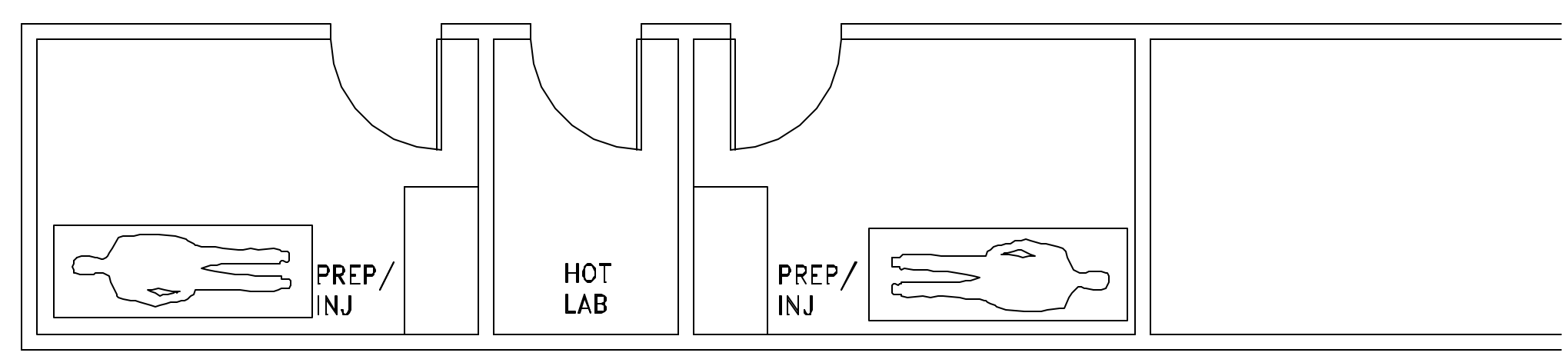
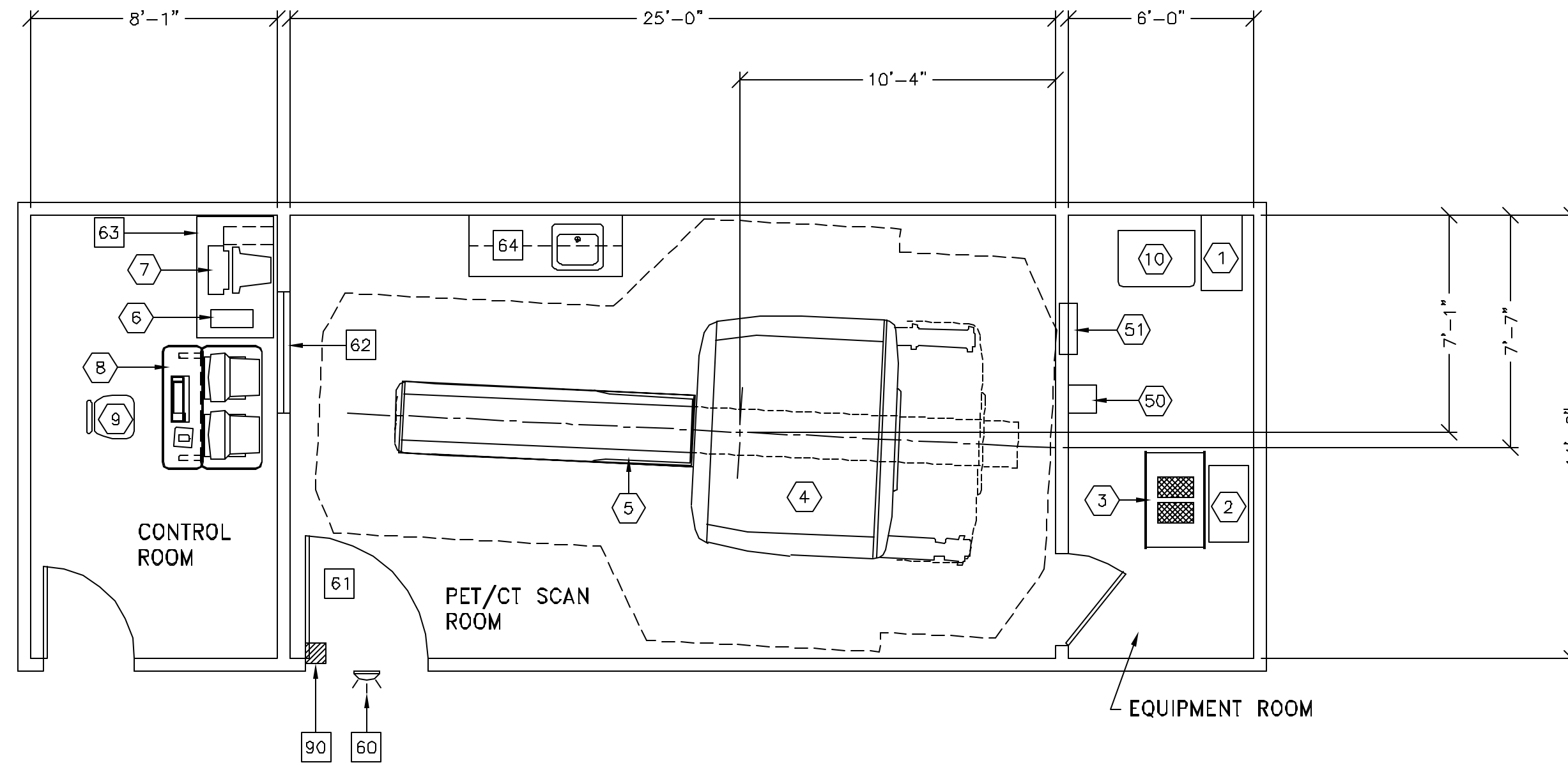
SCALE: 1/4" = 1'-0"

EQUIPMENT LAYOUT

REQUIRED CEILING HEIGHT = 8'-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.

IMPORTANT CUSTOMER READINESS ALERT:
THIS EQUIPMENT INVOLVES THE USE OF RADIOACTIVE ISOTOPES, INCLUDING THOSE SOURCES NECESSARY FOR EQUIPMENT CALIBRATION. APPROPRIATE REGULATORY COMPLIANCE AND LICENSING MUST BE ARRANGED BY THE CUSTOMER EARLY IN THE PLANNING PROCESS AND THEN DEMONSTRATED/AVAILABLE FOR EQUIPMENT INSTALLATION.



ANCILLARY ITEMS

CUSTOMER/CONTRACTOR SUPPLIED AND INSTALLED ITEMS

ITEM NO.	ITEM DESCRIPTION (* INDICATES EXISTING)
60	X-RAY ON WARNING LIGHT - AVAILABLE FROM GE SUPPLY CALL: 800-200-9760 GE CAT. NO. WX1ABW-DF-XIU
61	MINIMUM DOOR OPENING FOR EQUIPMENT DELIVERY IS 44 IN. W X 89 IN. H (1180mm X 2108mm). CONTINGENT ON A 96 IN. (2438mm) CORRIDOR WIDTH
62	CONTROL WALL TO CEILING WITH LEAD GLASS VIEWING WINDOW.
63	TABLE
64	COUNTER TOP WITH SINK, BASE AND WALL CABINETS

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

65	X-RAY ROOM WARNING LIGHT CONTROL PANEL REFERENCE JUNCTION POINT W/C ON SHEET 'E1' FOR DETAILED DESCRIPTION -E4502RL FOR WARNING LIGHT CONTROL ONLY.
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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: 65° TO 75° F, (18° TO 24° C) MAXIMUM ALLOWABLE TEMPERATURE CHANGE OF 5° F (3° C)/HOUR, MAXIMUM ROOM TEMPERATURE GRADIENT 5° F, (3° C).
- HUMIDITY: 30 TO 60 PERCENT NON-CONDENSING, MAXIMUM ALLOWABLE CHANGE OF 5 PERCENT/HOUR. STATIC CHARGES ASSOCIATED WITH LOWER HUMIDITY LEVELS MAY INTERFERE WITH SYSTEM OPERATION.
- ALTITUDE: NOT TO EXCEED 8,000 FT. (2438M) ABOVE SEA LEVEL.
- 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 OVERTIME, WEEKENDS, AND HOLIDAYS.
- BACKGROUND RADIATION SHOULD BE KEPT TO A MINIMUM. RADIOACTIVE SOURCES MUST BE KEPT IN SHIELDED CONTAINERS AND THE EXAMINATION ROOM SHIELDED FROM EXTERNAL SOURCES.
- DO NOT PLACE PET EQUIPMENT NEAR REGISTERS, WINDOWS OR OTHER COMPONENTS THAT COULD AFFECT TEMPERATURE LEVEL CHANGES IN THE PET EQUIPMENT VICINITY.

MAGNETIC INTERFERENCE SPECIFICATIONS

SCANNER MUST BE LOCATED IN AMBIENT STATIC MAGNETIC FIELDS OF LESS THAN 1.0 GAUSS TO GUARANTEE SPECIFIED IMAGING PERFORMANCE.
COMPUTER EQUIPMENT MUST BE LOCATED IN AMBIENT STATIC MAGNETIC FIELDS OF LESS THAN 10 GAUSS TO GUARANTEE DATA INTEGRITY.
DIAGNOSTIC CONSOLE MUST BE LOCATED IN AMBIENT STATIC MAGNETIC FIELDS OF LESS THAN 1 GAUSS TO OBTAIN SPECIFIED GEOMETRIC LINEARITY.

GE Healthcare Technologies
Installation Services Design Center
Milwaukee, Wisconsin

SHEET TITLE: EQUIPMENT LAYOUT
MODALITY TYPE: DISCOVERY LS
THIS PLAN IS SUBMITTED TO SUBMIT LOCATIONS OF GE HEALTHCARE EQUIPMENT AND ASSOCIATED ELECTRICAL, MECHANICAL, AND ROOM ARRANGEMENTS. IN PREPARING THIS PLAN, EVERY EFFORT HAS BEEN MADE TO CONFORM DETAILS TO ACTUAL EQUIPMENT EXCEPTED TO BE INSTALLED. IT IS NOT TO BE USED FOR RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:
**TYPICAL CT-PET
12-10F**
TYPICAL INSTALLATION DRAWINGS

PROJECT	REVISION
12-10F	03

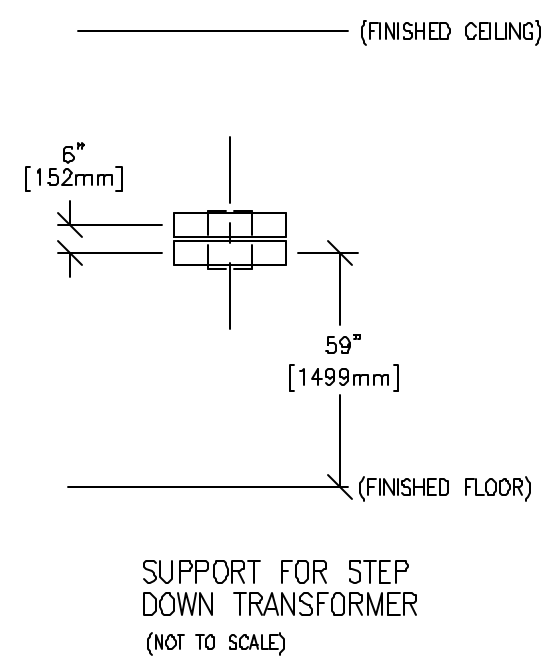
DATE: 06-29-08
DRAWN BY: DMH
CHECKED BY: AJS

REVISION HISTORY:

SHEET
A1

TYPICAL WALL SUPPORT ELEVATIONS

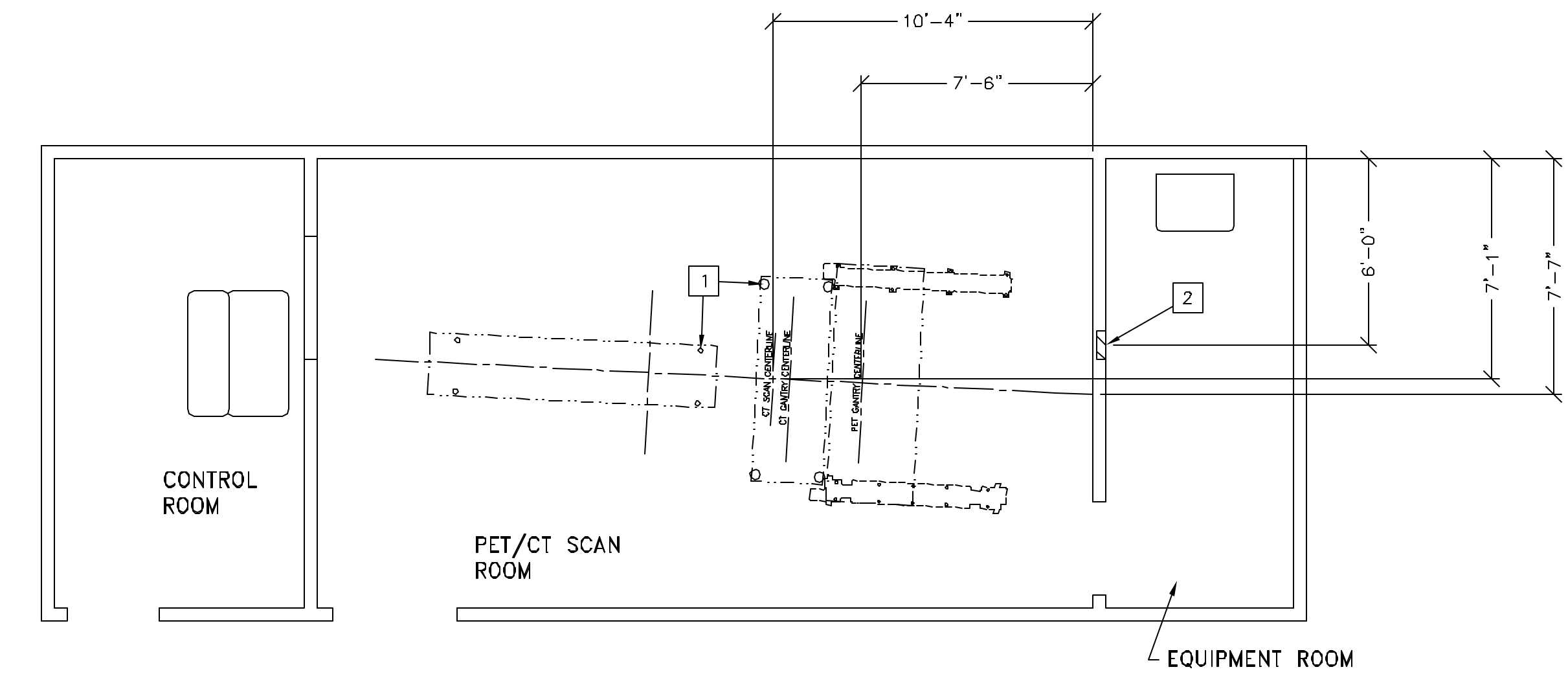
S105



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

STRUCTURAL LAYOUT

REQUIRED CEILING HEIGHT = 8'-0"



STRUCTURAL SUPPORT METHODS

CUSTOMER/CONTRACTOR SUPPLIED AND INSTALLED ITEMS

ITEM NO.	ITEM DESCRIPTION (* INDICATES EXISTING)
1	FLOOR CONTACT AREA FOR DISCOVERY GANTRY AND PATIENT TABLE. SEE DETAIL P9093 ON SHEET S2 FOR MORE INFORMATION. Discovery LS Seismic Zone Anchoring Hardware <CONTROL> ANCHOR = Hilti KB3 - 3/8 x 3.75 in. (4 ea.) <CONTROL> BRACKET = Include B79-96K Bracket (2 ea.) CONTACT GE INSTALLATION PROJECT MANAGER FOR BUILD SPECS OF THIS BRACKET. <PDU> ANCHOR = Hilti KB3 - 3/8 x 3.75 in. (4 ea.) <PDU> BRACKET = Include B79-96L Bracket (2 ea.) CONTACT GE INSTALLATION PROJECT MANAGER FOR BUILD SPECS OF THIS BRACKET. <E-Cabinet> ANCHOR = Hilti KB3 - 3/8 x 3.75 in. (4 ea.) <E-Cabinet> SCREWS = #12 Tech Screws (8 ea.) <E-Cabinet> BRACKET = Include P50-50C Brackets (2 ea.) CONTACT GE INSTALLATION PROJECT MANAGER FOR BUILD SPECS OF THIS BRACKET. <GANTRY> ANCHOR = Hilti KB3 - 1/2 x 9 in. (4 ea.) <GANTRY> ANCHOR = Hilti KB3 - 1/2 x 9 in. (4 ea.) <TABLE> ANCHOR = Hilti KB3 - 1/2 x 9 in. (5 ea.) ALL ANCHORS TO INCLUDE 1 FLATWASHER, ALL BOLTS TO INCLUDE 2 FLATWASHERS, 1 LOCKWASHER AND 1 NUT.
2	SUPPORT BACKING, LOCATE AS SHOWN, REFER TO ELEVATION DETAIL S105, FOR STEP DOWN TRANSFORMER.

STRUCTURAL NOTES

- 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.
- 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.

GE Healthcare Technologies
Installation Services Design Center
Milwaukee, Wisconsin

SHEET TITLE: STRUCTURAL LAYOUT
MODALITY TYPE: DISCOVERY LS
THIS PLAN IS SUBMITTED TO SUBJECT LOCATIONS OF HEALTHCARE EQUIPMENT AND ASSOCIATED ELECTRICAL, MECHANICAL, PLUMBING, AND ROOM ARRANGEMENTS. IN PREPARING THIS PLAN, EVERY EFFORT HAS BEEN MADE TO CONFORM DETAILS TO ACTUAL EQUIPMENT SPECIFICATIONS. IT IS NOT TO BE USED FOR RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:
**TYPICAL CT-PET
12-10F**
TYPICAL INSTALLATION DRAWINGS

PROJECT	REVISION
12-10F	03
DATE:	06-29-08
DRAWN BY:	DMH
CHECKED BY:	AJS

REVISION HISTORY:

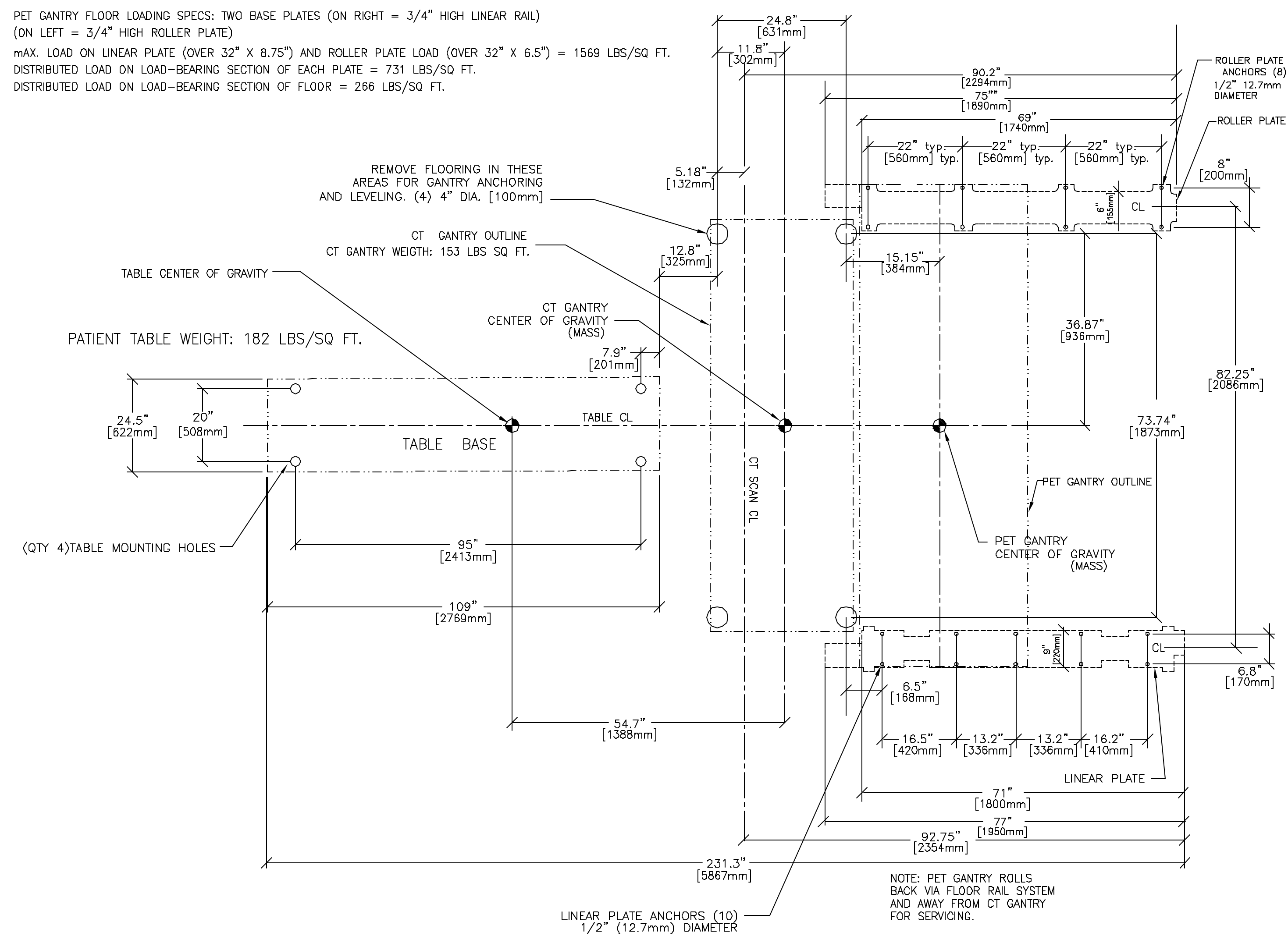
SHEET
S1

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

FLOOR MOUNTING DETAIL: DISCOVERY LS INSTALLATION METHODS

P5053
REV: 02/13/03

PET GANTRY FLOOR LOADING SPECS: TWO BASE PLATES (ON RIGHT = 3/4" HIGH LINEAR RAIL)
(ON LEFT = 3/4" HIGH ROLLER PLATE)
MAX. LOAD ON LINEAR PLATE (OVER 32" X 8.75") AND ROLLER PLATE LOAD (OVER 32" X 6.5") = 1569 LBS/SQ FT.
DISTRIBUTED LOAD ON LOAD-BEARING SECTION OF EACH PLATE = 731 LBS/SQ FT.
DISTRIBUTED LOAD ON LOAD-BEARING SECTION OF FLOOR = 286 LBS/SQ FT.



DETAIL NOT TO SCALE

SHEET TITLE: STRUCTURAL DETAILS
MODALITY TYPE: DISCOVERY LS

THIS PLAN IS SUBMITTED TO SUBJECT LOCATION OF GE HEALTHCARE EQUIPMENT AND ASSOCIATED ELECTRICAL, MECHANICAL, PIPING, AND ROOM ARRANGEMENTS. IN PREPARING THIS PLAN, EVERY EFFORT HAS BEEN MADE TO CONFORM DETAILS TO ACTUAL EQUIPMENT EXCEPT TO BE INSTALLED. IT IS NOT TO BE USED FOR RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:
TYPICAL CT-PET
12-10F
TYPICAL INSTALLATION DRAWINGS

PROJECT	REVISION
12-10F	03
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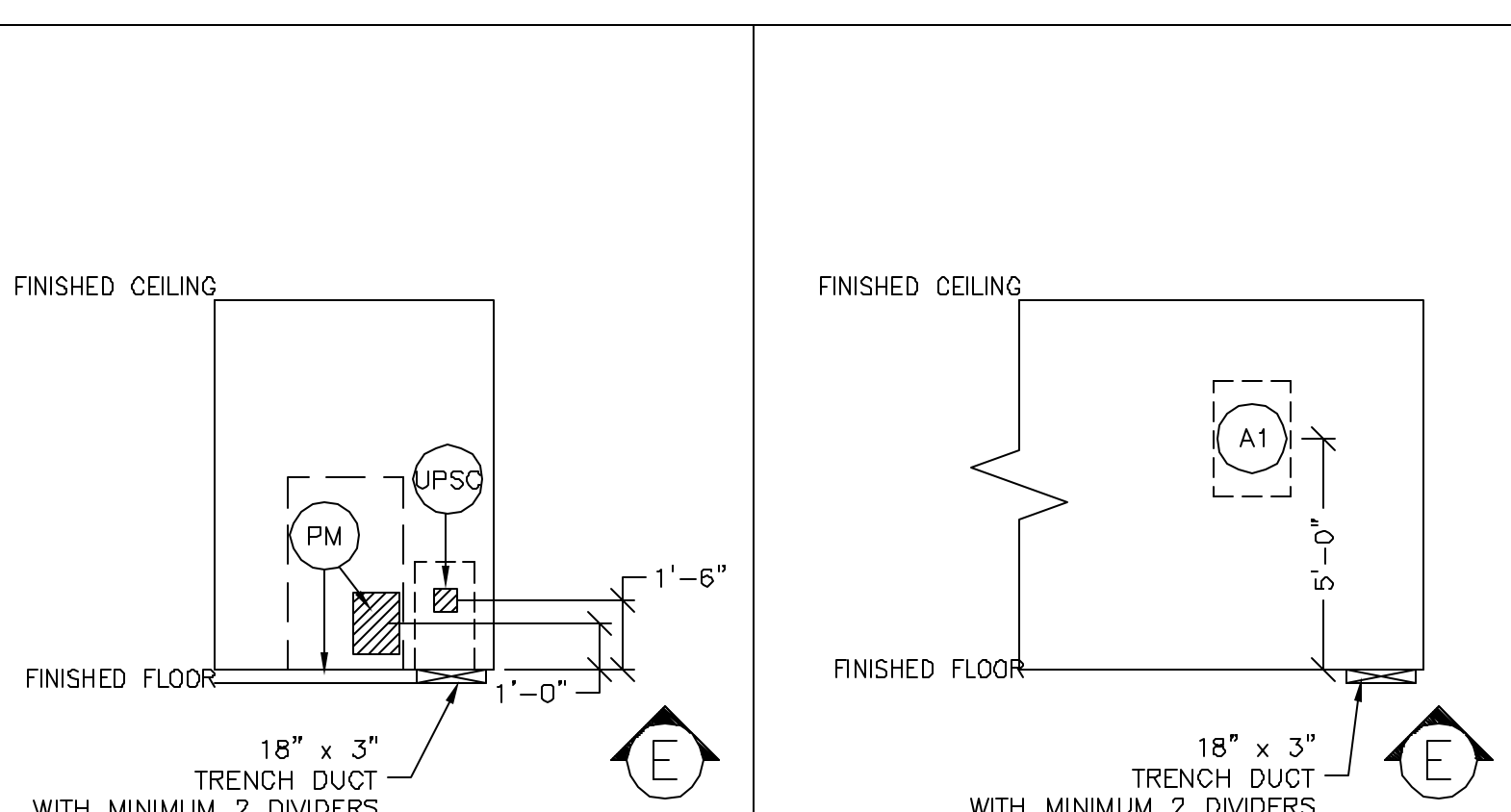
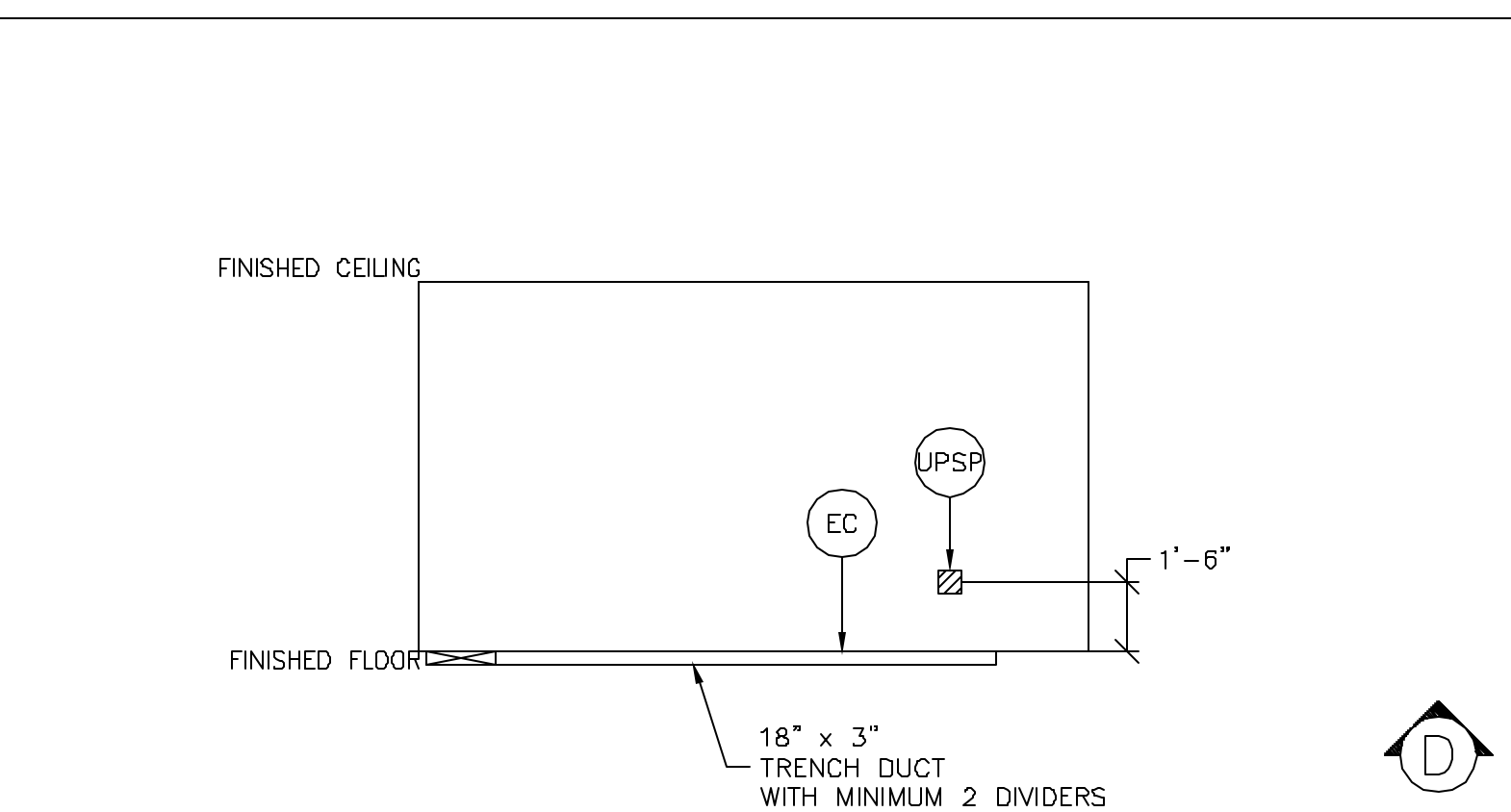
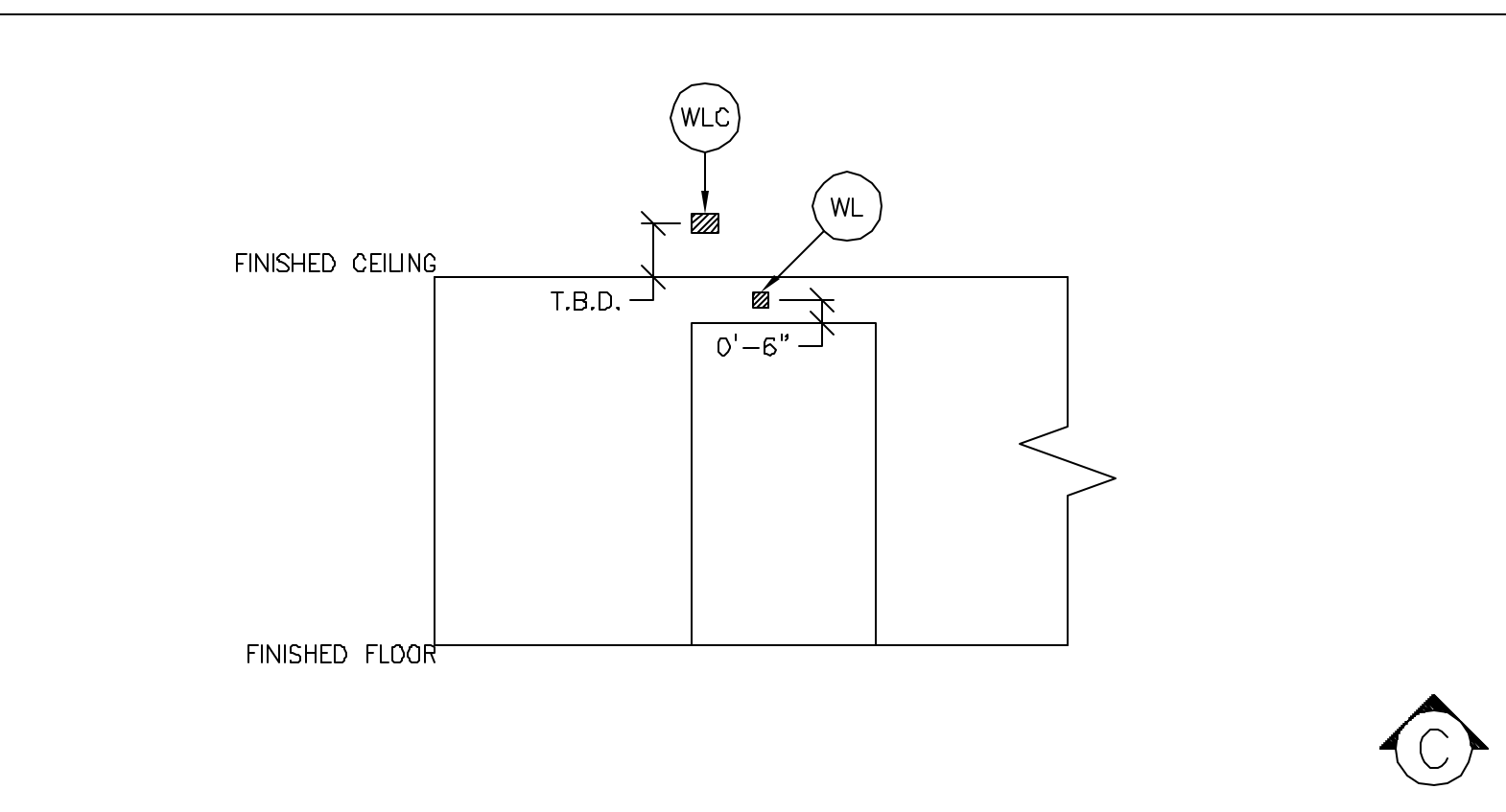
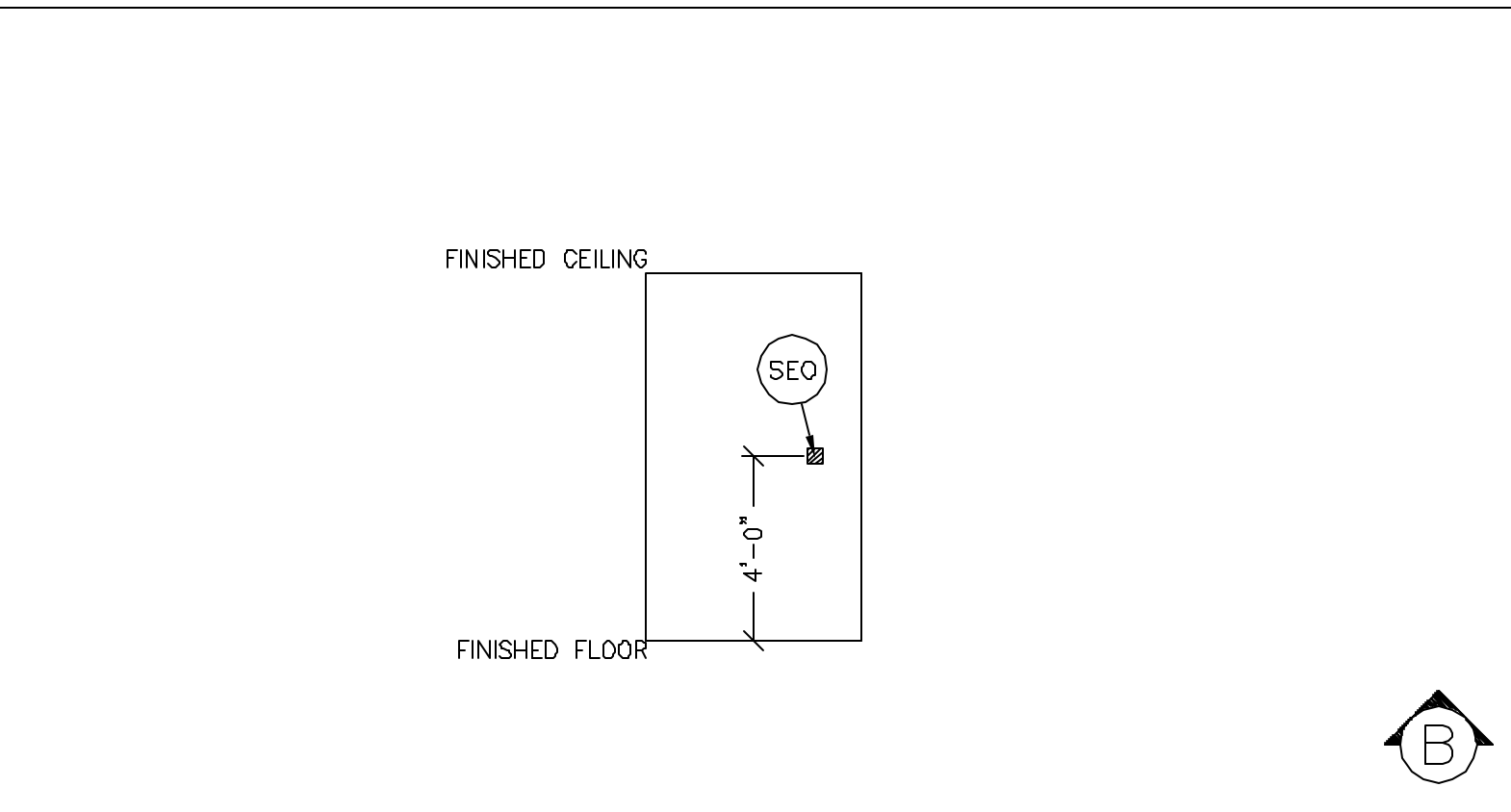
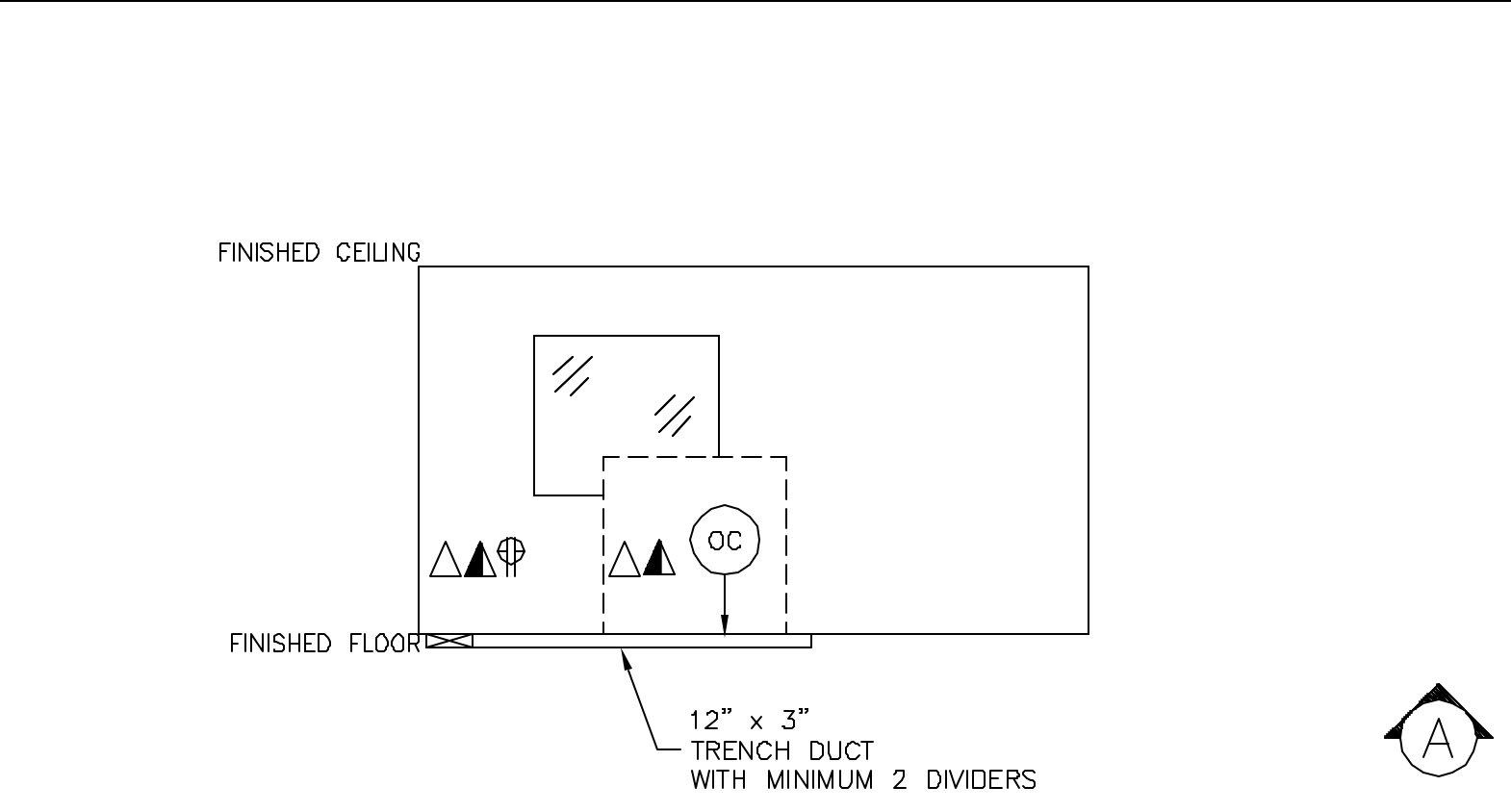
SHEET
S2

GE Healthcare Technologies
Installation Services Design Center
Milwaukee, Wisconsin

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

ELECTRICAL PLAN

REQUIRED CEILING HEIGHT = 8'-0"



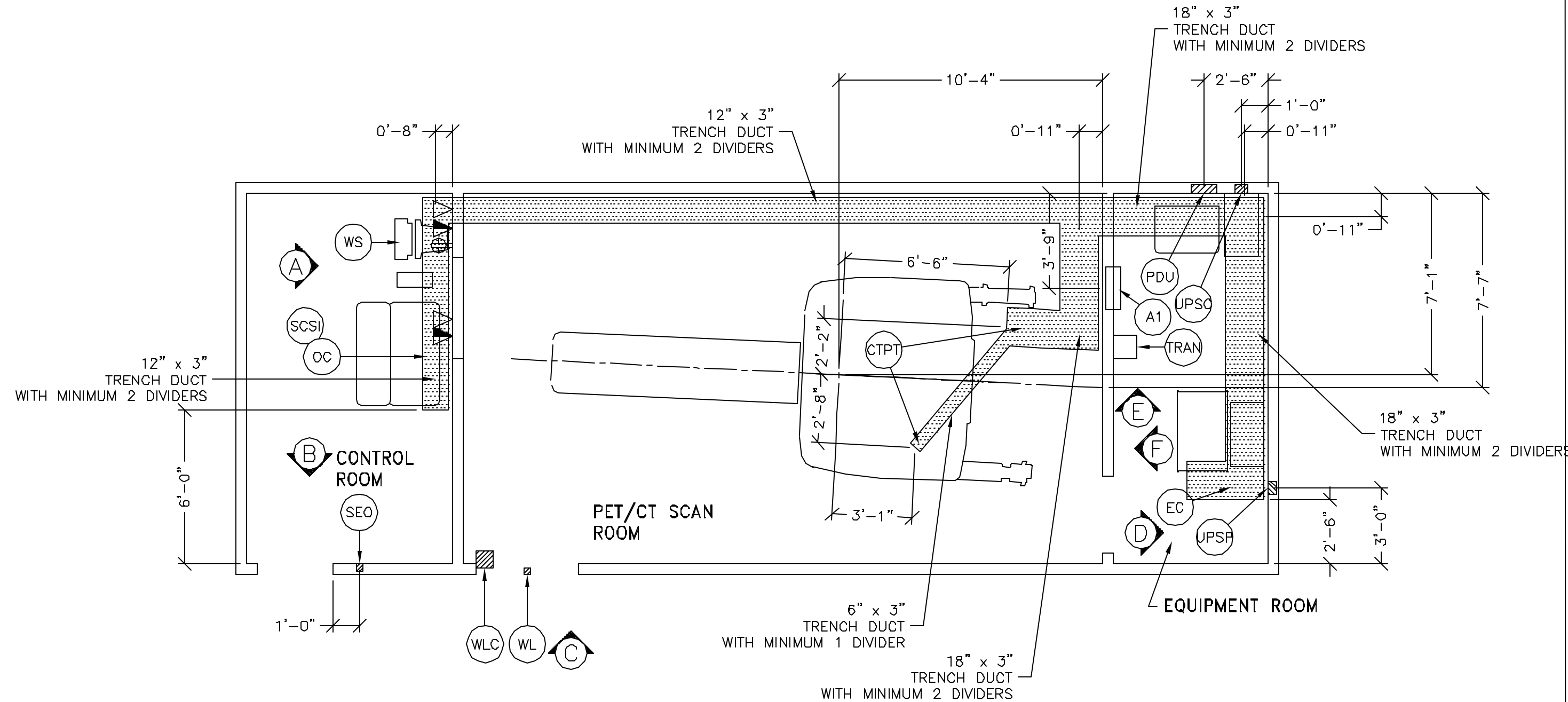
ELECTRICAL OUTLET LEGEND
CUSTOMER/CONTRACTOR SUPPLIED AND INSTALLED ITEMS. HEIGHT ABOVE FLOOR DETERMINED BY LOCAL CODES UNLESS OTHERWISE SPECIFIED.

- △ DEDICATED TELEPHONE LINE(S) (SEE ELECTRICAL DETAIL ELEC-1 OR ELEC-87)
- ▲ NETWORK OUTLET (SEE ELECTRICAL DETAILS ELEC-83 AND ELEC-84 OR ELEC-87)
- ⊕ DUPLEX HOSPITAL GRADE, DEDICATED OUTLET 120-V, SINGLE PHASE OUTLET 20 AMP

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:
 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 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. 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.



JUNCTION POINT DESCRIPTIONS

POINT	DESCRIPTION	QTY.	HARDWARE	DETAIL NO., SH. E3
A1	MAIN DISCONNECT (GEC SUPPLIED)	1	FITTINGS AS REQUIRED. EMERGENCY OFF PUSHBUTTON STATION IS INCLUDED.	ELEC-35
CTPT	CT-PET SCANNER	3	4 IN. DIA. CHASE NIPPLE	ELEC-25
EC	ELECTRONICS CABINET	3	3 IN. DIA. CHASE NIPPLE	ELEC-25
OC	OPERATORS CONSOLE	3	3 1/2 IN. DIA. CHASE NIPPLE	ELEC-25
PDU	POWER DISTRIBUTION UNIT	1	3 1/2 IN. DIA. CHASE NIPPLE	ELEC-25
PM	STEP DOWN TRANSFORMER	1	SPLIT COVERPLATE 3 1/8 IN. DIA. CHASE NIPPLE 3/8 IN. DIA. CHASE NIPPLE 1/2 IN. DIA. CHASE NIPPLE 1/2 IN. DIA. CHASE NIPPLE 6 FT. LENGTH OF 2 IN. FLEXIBLE METAL CONDUIT	ELEC-25
SCSI	SCSI BOX	1	CONNECT TO WORKSTATION CPU TOWER.	ELEC-16
SEO	EMERGENCY OFF	1	SINGLE GANG 2 1/8 IN. DEEP FLUSH MOUNTED JUNCTION BOX.	ELEC-16
TRAN	TRANSFORMER	1	FITTINGS AS REQUIRED	ELEC-16
UPSC	UPS CABINET	1	SPLIT COVERPLATE 3 1/4 IN. DIA. CHASE NIPPLE 3/8 X 6 X 4 IN. BOX 6 FT. LENGTH OF SUITABLE FLEXIBLE METAL CONDUIT	ELEC-25
UPSP	UPS CABINET	1	SPLIT COVERPLATE 3 1/4 IN. DIA. CHASE NIPPLE 3/8 X 6 X 4 IN. BOX 6 FT. LENGTH OF SUITABLE FLEXIBLE METAL CONDUIT	ELEC-25
WL	WARNING LIGHT	1	COVERPLATE SINGLE GANG BOX X-RAY ON INCANDESCENT LIGHT FIXTURE - DO NOT USE FLUORESCENT FIXTURES.	ELEC-16
WLC	WARNING LIGHT CONTROLLER	1	ME4508RL WARNING LIGHT 24V CONTROL OR EQUIVALENT .	ELEC-72
WS	WORKSTATION	1	CONNECT EXTERNALLY	ELEC-1

DISCOVERY LS MAIN FEEDER TABLE REV. DATE: 12/20/05

○ CALCULATIONS BASED UPON NOMINAL VOLTAGE, WIRE SIZE IN AWG.
○ RECOMMENDED FEEDER SIZES FROM DISTRIBUTION TRANSFORMER TO THE POWER CABINET
○ RECOMMENDED FEEDER SIZES FROM DIST. TRANS. TO ROOM DISCONNECT. CALCULATIONS ARE AT NORMAL VOLTAGE BASED UPON A MAXIMUM 40' RUN. SEE SUBFEEDER CHART FOR SIZE.
○ NEUTRAL MUST BE TERMINATED INSIDE THE MAIN DISCONNECT PANEL AND NOT AT ANY OF CABINET.
○ THE GROUNDING CONDUCTOR (1) WILL BE OF SAME SIZE AS THE FEEDER WIRES WITH A 1/0 MINIMUM. 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.
○ FOR A FULL SYSTEM UPS, REFER TO ELECTRICAL DETAILS FOR UPS FEEDER WIRES.

RUN LENGTH IN FEET	POWER SUPPLY VOLTAGE											
	350-410		360-432		380-454		405-475		423-497		442-518	
	FEEDER	GROUND	FEEDER	GROUND	FEEDER	GROUND	FEEDER	GROUND	FEEDER	GROUND	FEEDER	GROUND
50	1 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)
100	1 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)
150	1 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)
200	1 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)
250	2/0 (1/0)	1/0 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)
300	2/0 (2/0)	2/0 (2/0)	1/0 (1/0)	1/0 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)
350	3/0 (3/0)	3/0 (3/0)	2/0 (2/0)	2/0 (2/0)	2/0 (2/0)	1/0 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)
400	4/0 (4/0)	3/0 (3/0)	3/0 (3/0)	2/0 (2/0)	2/0 (2/0)	2/0 (2/0)	1/0 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)	1 (1/0)

NOTE: SEE E2 PAGE FOR MAXIMUM RUN LENGTHS

ADDITIONAL CONDUIT RUNS FOR ALL DISCOVERY LS SYSTEM WITH UPS (BY CONTRACTOR)

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

FROM	TO	QUANTITY	WIRE SIZE/COLOR
WL	TO WLC	ONE	1/2" CND.
WLC	TO PDU	ONE	1/2" CND.
PDU	TO A1	ONE	CND. AS REQ'D
A1	TO SEO	ONE	1/2" CND.
A1	TO TRAN	ONE	CND. AS REQ'D
TRAN	TO A1	ONE	CND. AS REQ'D
A1	TO UPSP	ONE	CND. AS REQ'D
A1	TO UPSC	ONE	1/2" CND.
A1	TO FEEDER	ONE	CND. AS REQ'D
WLC	TO 120-V 1Ø POWER	CND. AS REQ'D	

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
A1 > UPSP	2-ND. 8 BLACK, 1-ND. 8 WHITE, 1-ND. 8 GREEN (MAX 40')
WLC > 1 PHASE	1-ND. 14 BLACK, 1-ND. 14 WHITE, 1-ND. 14 GREEN
PM > WLC	1-ND. 14 BLACK, 1-ND. 14 WHITE
WL > WLC	2-ND. 14 BLACK, 1-ND. 14 RED, 1-ND. 14 WHITE
A1 > TRAN	2-ND. 8 BLACK, 1-ND. 8 WHITE, 1-ND. 8 GREEN (MAX 15')
TRAN > A1	2-ND. 8 BLACK, 1-ND. 8 WHITE, 1-ND. 8 GREEN (MAX 15')
A1 > SEO	1-ND. 14 BLACK, 1-ND. 14 WHITE, 1-ND. 14 GREEN
480-V > A1	3 BLACK, 1 WHITE, 1 GREEN - REFER TO FEEDER TABLE
A1 > PM	3-ND. 3 BLACK, 1-ND. 1/0 GREEN (MAX 40')

GE Healthcare Technologies
Installation Services Design Center
Milwaukee, Wisconsin

SHEET TITLE: ELECTRICAL LAYOUT
MODALITY TYPE: DISCOVERY LS

THIS PLAN IS SUBMITTED TO SUBJECT LOCATION OF GE HEALTHCARE EQUIPMENT AND ASSOCIATED APPLIANCES FOR ELECTRICAL WIRING DETAILS AND ROOM ARRANGEMENTS. IN PREPARING THIS PLAN, EVERY EFFORT HAS BEEN MADE TO CONFORM DETAILS TO ACTUAL EQUIPMENT. EXCEPT TO BE INSTALLED, IT IS NOT TO BE USED FOR RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:
**TYPICAL CT-PET
12-10F**
TYPICAL INSTALLATION DRAWINGS

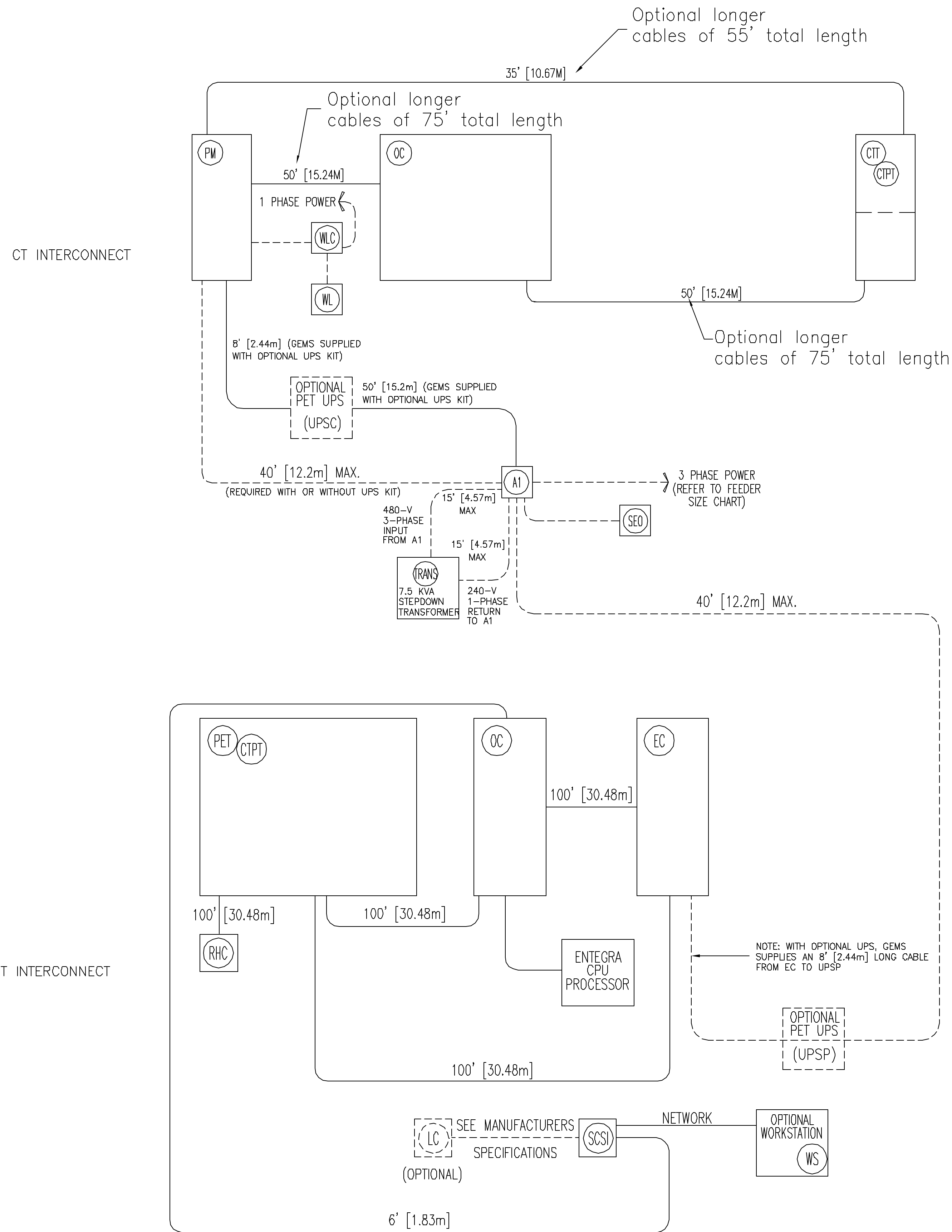
PROJECT	REVISION
12-10F	03

DATE: 06-29-08
DRAWN BY: DMH
CHECKED BY: AJS

REVISION HISTORY:

SHEET
E1

INTERCONNECT DIAGRAM



POWER SPECIFICATIONS

DISCOVERY LS IMAGING SYSTEM

(REV. DATE 05/25/05)
 PRIMARY SOURCE IS REQUIRED FOR ALL INSTALLATIONS.
 RANGE OF LINE VOLTAGES: NOMINAL LINE VOLTAGE OF 400 TO 480, 3 PHASE, 50 OR 60 Hz.
 RECOMMENDED POWER SUPPLY: WYE CONNECTED.
 MAXIMUM DAILY VOLTAGE VARIATION MUST FALL WITHIN ONE OF THE RANGES IN TABLE A.

TABLE A ALLOWABLE INPUT VOLTAGES/CURRENT DEMAND

NOMINAL VOLTAGE	ABSOLUTE RANGE	CURRENT (AMPS)		MINIMUM STANDARD OVERCURRENT PROTECTION
		MOMENTARY	CONTINUOUS	
400	368-432	137	36	110-A
440	405-475	125	33	110-A
480	442-518	114	30	110-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 25 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.

TABLE B MAXIMUM MOMENTARY POWER DEMAND.

DEMAND	
kva*	95
POWER FACTOR AT	0.85

* DEMAND INCLUDES POWER FOR ENTIRE DISCOVERY SYSTEM. LINE VOLTAGE REGULATION AT MAXIMUM POWER DEMAND MUST BE LESS THAN OR EQUAL TO 5 PERCENT.

DISTRIBUTION TRANSFORMER: FOR A SINGLE UNIT INSTALLATION, THE MINIMUM TRANSFORMER SIZE IS 120 KVA WITH 3.2% RATED REGULATION AT UNITY POWER FACTOR. 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 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 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 DIMMER 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 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]

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

THIS PLAN IS SUBMITTED TO SUBMIT LOCATION OF GE HEALTHCARE EQUIPMENT AND ASSOCIATED ELECTRICAL WIRING DETAILS AND ROOM ARRANGEMENTS. IN PREPARING THIS PLAN, EVERY EFFORT HAS BEEN MADE TO CONFORM DETAILS TO ACTUAL EQUIPMENT EXPECTED TO BE INSTALLED. IT IS NOT TO BE USED FOR RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

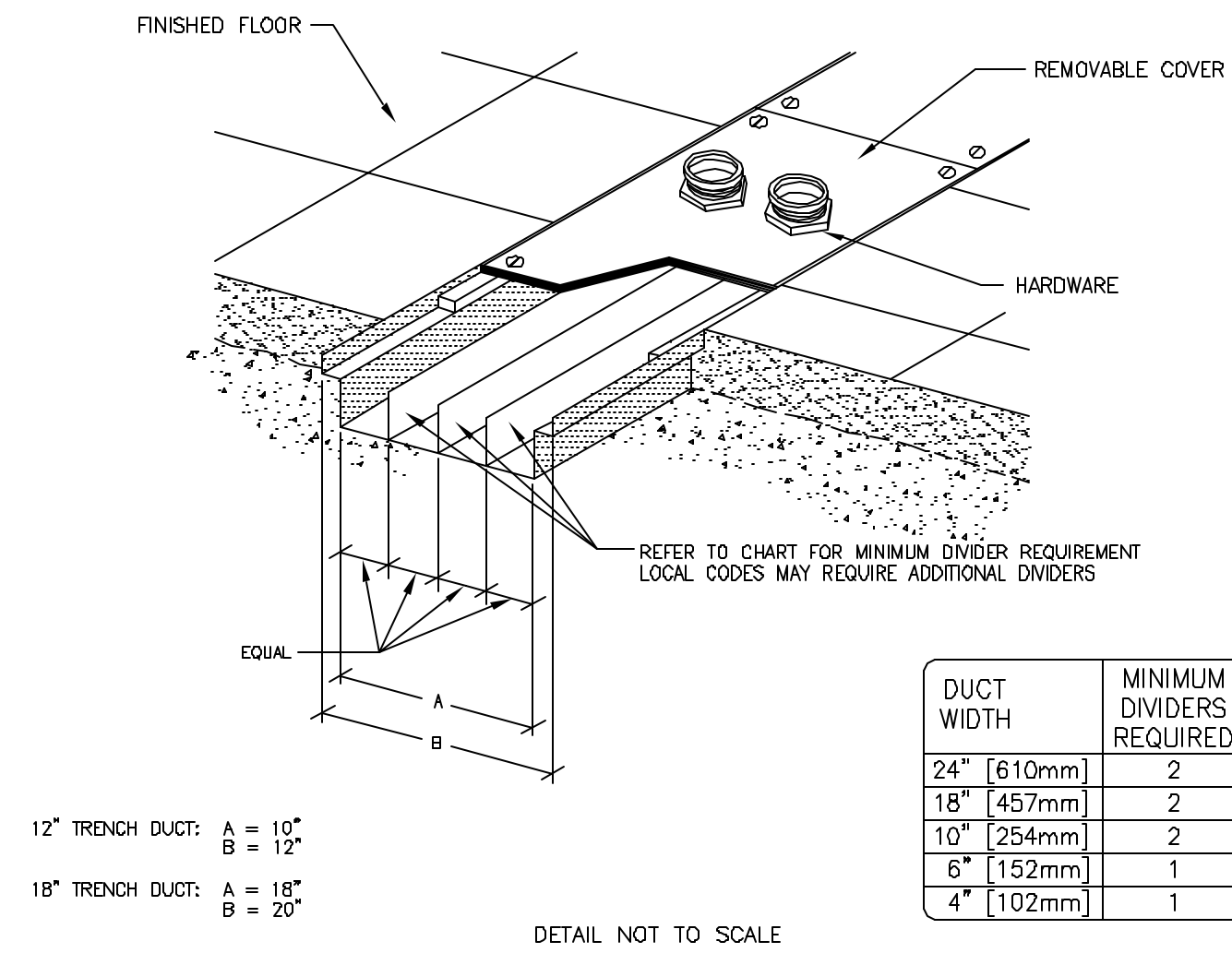
PROJECT	REVISION
12-10F	03

DATE: 06-29-08
 DRAWN BY: DMH
 CHECKED BY: AJS

REVISION HISTORY:

ELECTRICAL DETAIL
FLUSH FLOOR DUCT (TYPICAL)

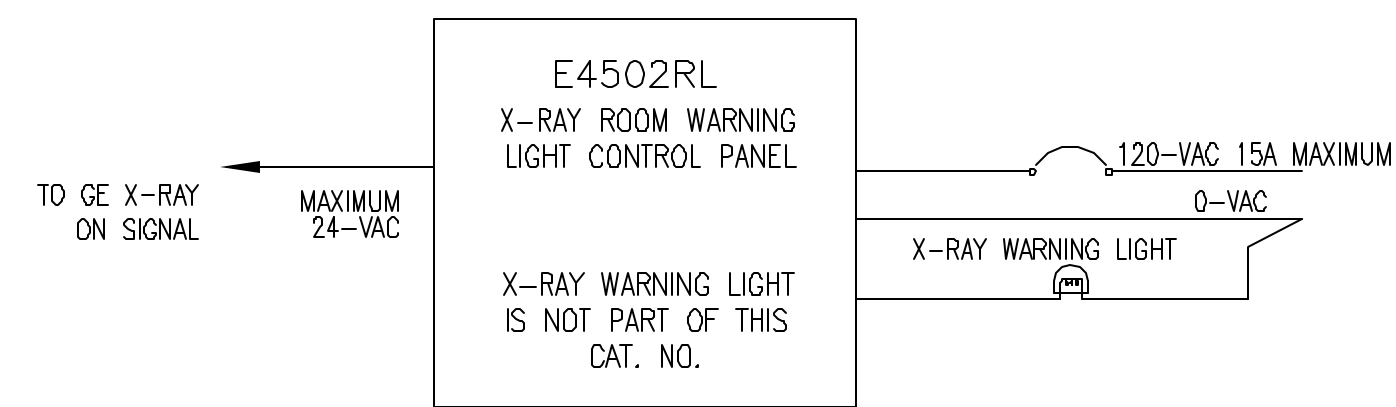
ELEC-25
REV. DATE: 4/01/04



DETAIL NOT TO SCALE

ELECTRICAL DETAIL
WARNING LIGHT DIAGRAM

ELEC-72
REV. DATE: 11/26/07

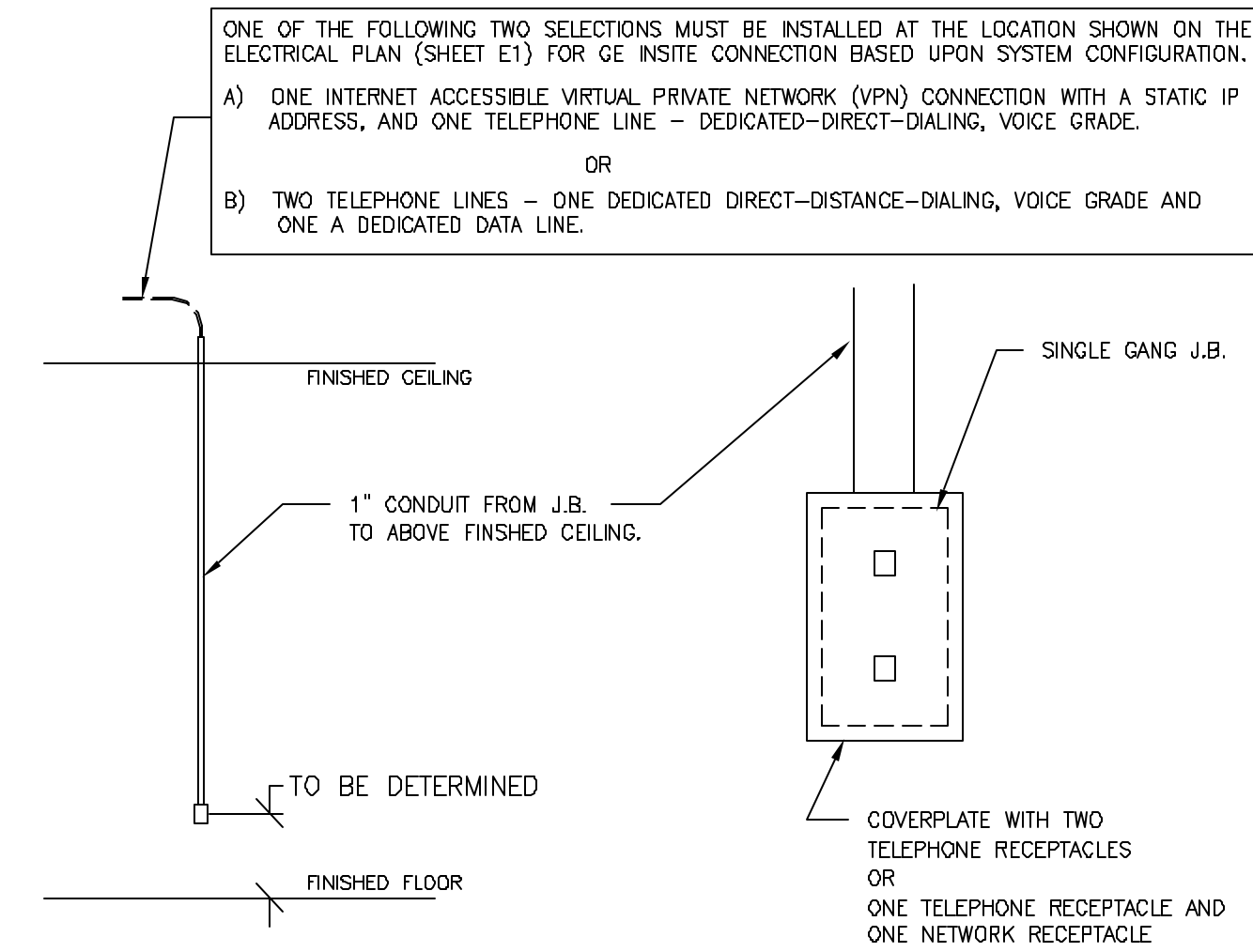


UNLESS SPECIFIED ON SHEET A1 AS BEING INCLUDED ON EQUIPMENT ORDER, ALL ITEMS ILLUSTRATED ARE TO BE FURNISHED AND INSTALLED BY CUSTOMER'S CONTRACTOR

DRAWING NOT TO SCALE

ELECTRICAL DETAIL
INSITE CONNECTION (TYPICAL)

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

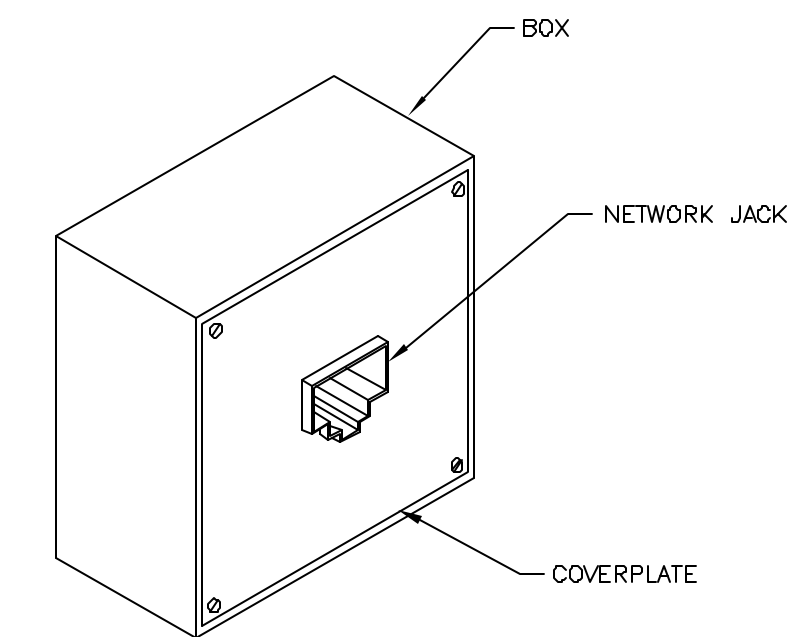


ALL ITEMS ILLUSTRATED ARE TO BE FURNISHED AND INSTALLED BY CUSTOMER OR THEIR CONTRACTOR.

DETAIL NOT TO SCALE

ELECTRICAL DETAIL
BOX WITH COVERPLATE AND NETWORK JACK

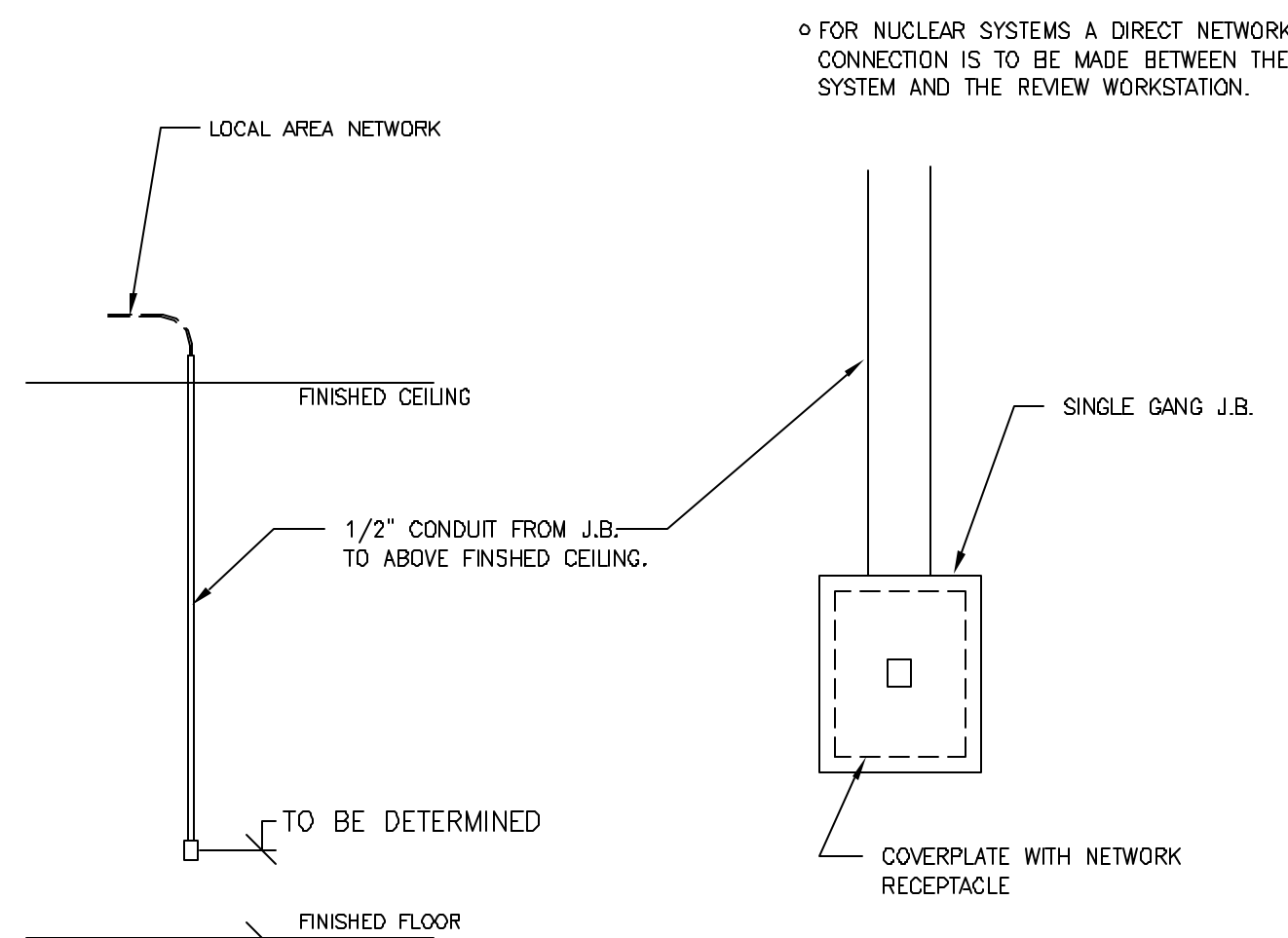
ELEC-83
REV. DATE: 10/08/98



DETAIL NOT TO SCALE

ELECTRICAL DETAIL
NETWORK CONNECTION (TYPICAL)

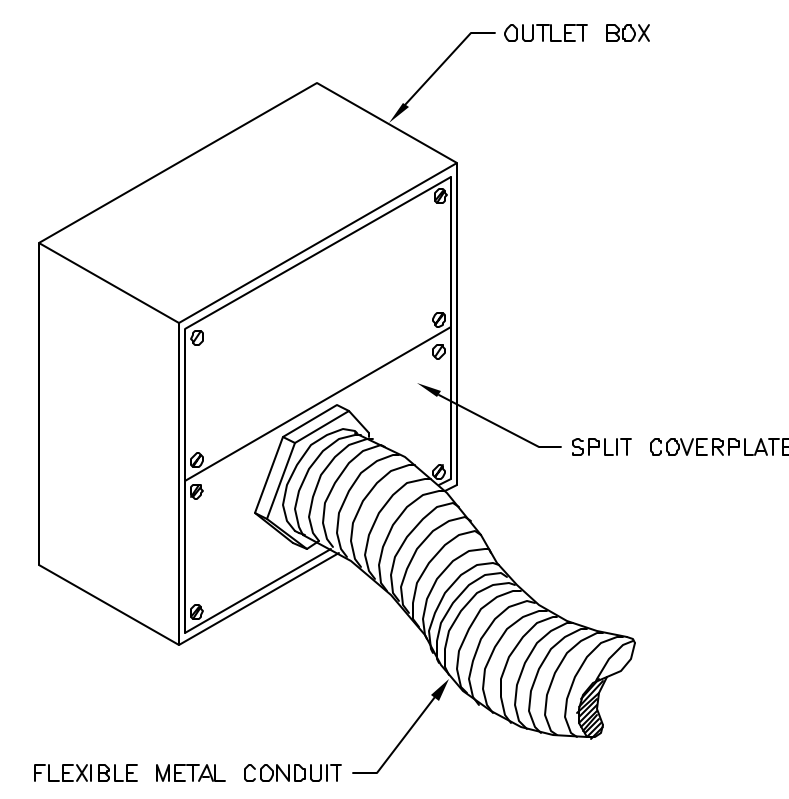
ELEC-84
REV. DATE: 03/08/04



DETAIL NOT TO SCALE

ELECTRICAL DETAIL
BOX WITH SPLIT COVERPLATE (TYPICAL)

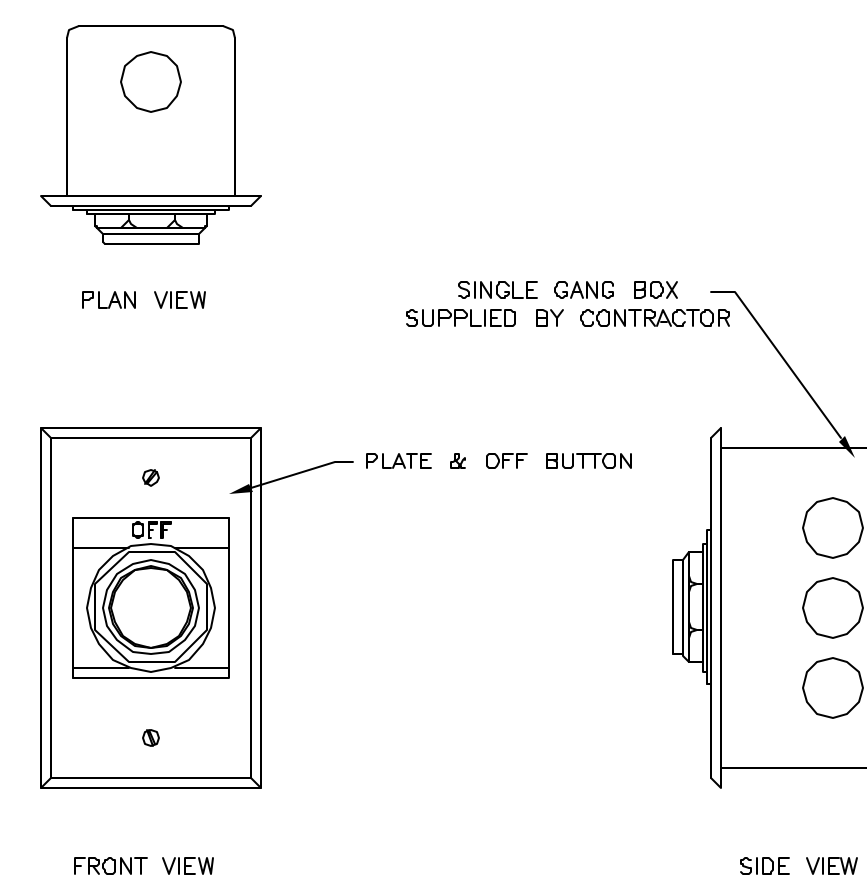
ELEC-22
REV. DATE: 10/13/94



DETAIL NOT TO SCALE

ELECTRICAL DETAIL
EMERGENCY OFF BUTTON

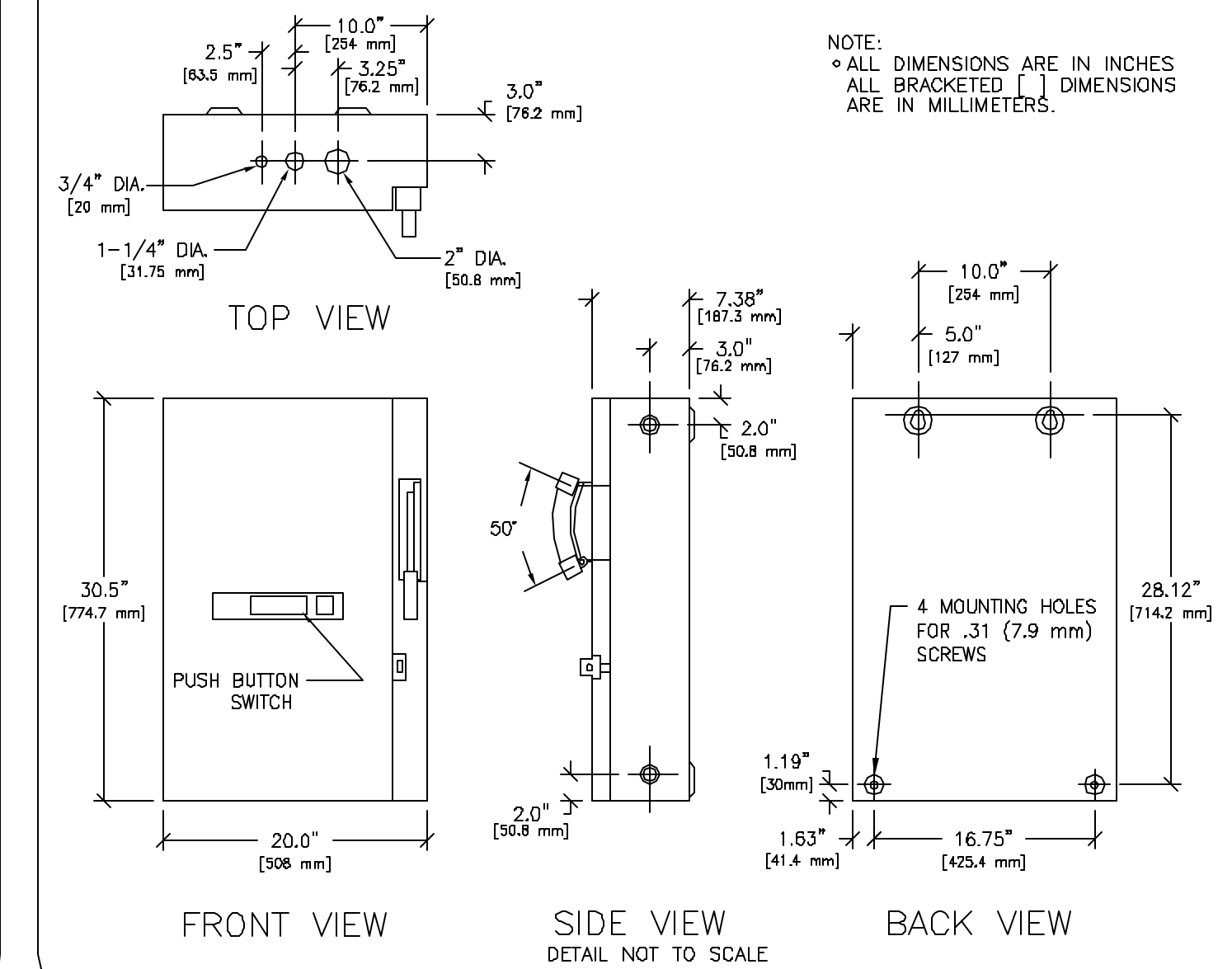
ELEC-16
REV. DATE: 08/22/05



DETAIL NOT TO SCALE

ELECTRICAL DETAIL
MAIN DISCONNECT

ELEC-35



DETAIL NOT TO SCALE

SHEET TITLE: ELECTRICAL DETAILS
MODALITY TYPE: DISCOVERY LS

THIS PLAN IS SUBMITTED TO SUBMITTER FOR REVIEW OF MECHANICAL EQUIPMENT AND ASSOCIATED ELECTRICAL WIRING DETAILS AND ROOM ARRANGEMENTS. IN PREPARING THIS PLAN, EVERY EFFORT HAS BEEN MADE TO CONFORM DETAILS TO ACTUAL EQUIPMENT SPECIFICATIONS. IT IS NOT TO BE USED FOR CONSTRUCTION OF ANY EQUIPMENT EXCEPT TO BE INSTALLED BY THE COMPANY. THE COMPANY CANNOT ACCEPT RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:

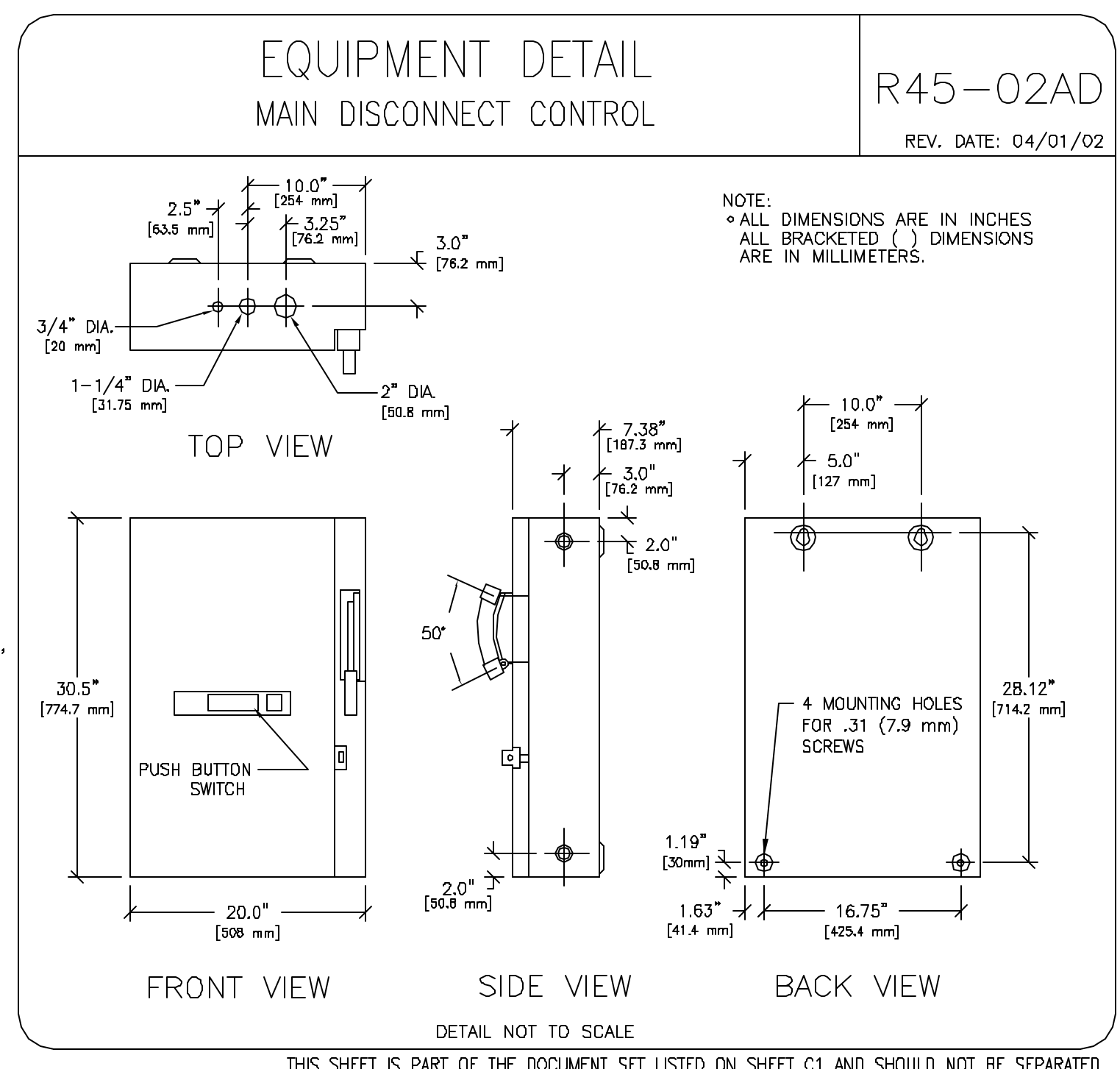
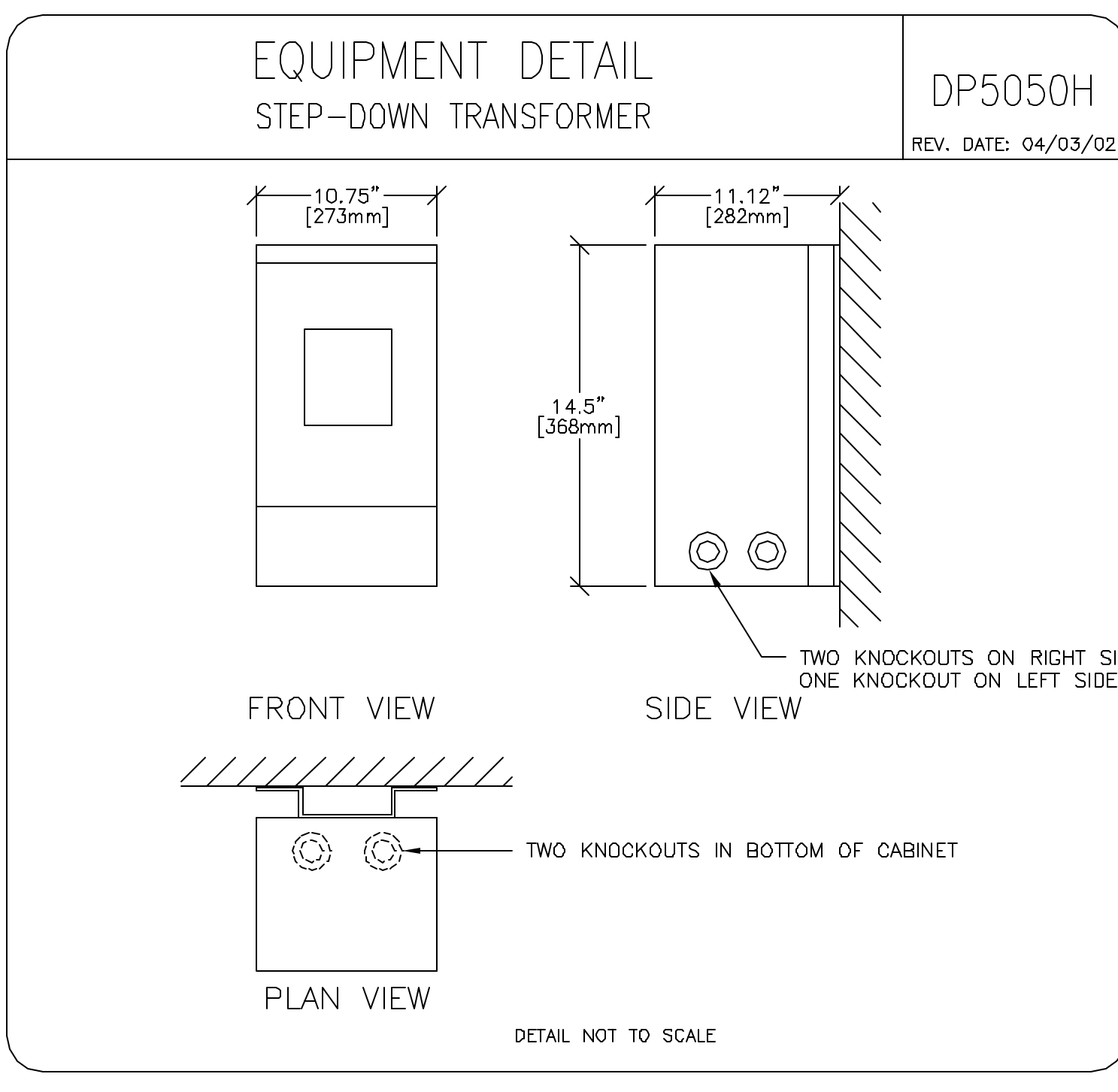
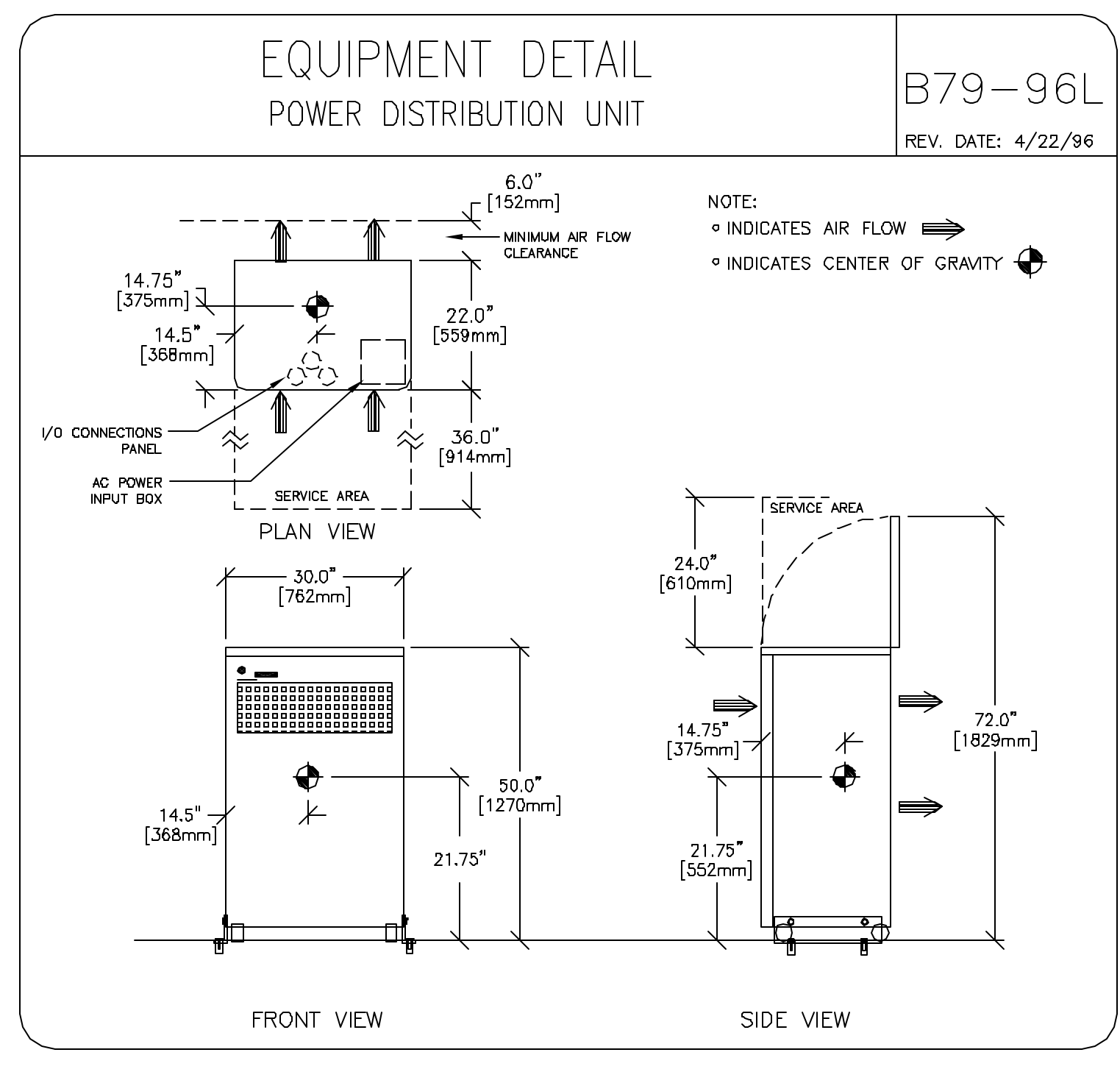
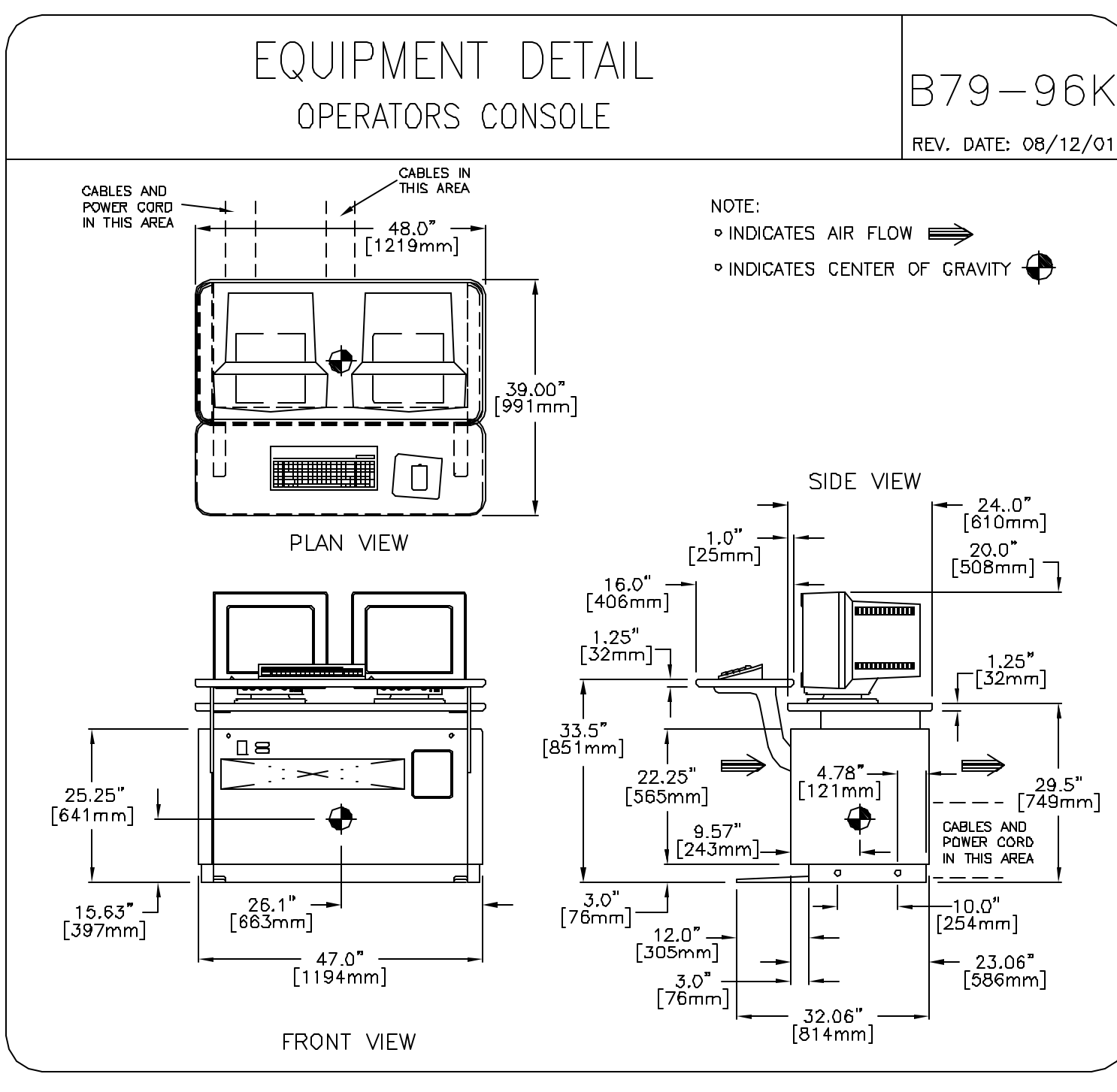
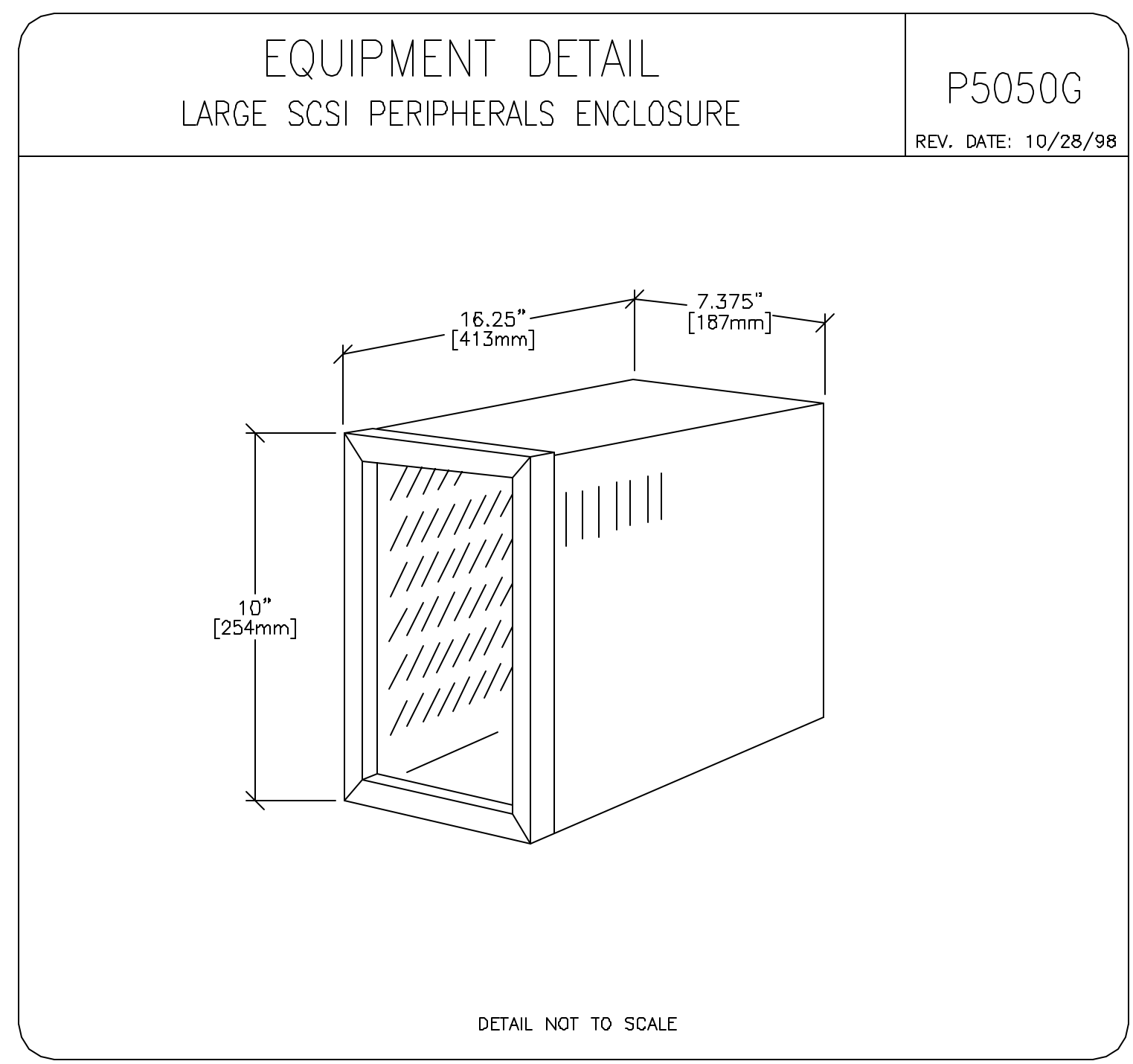
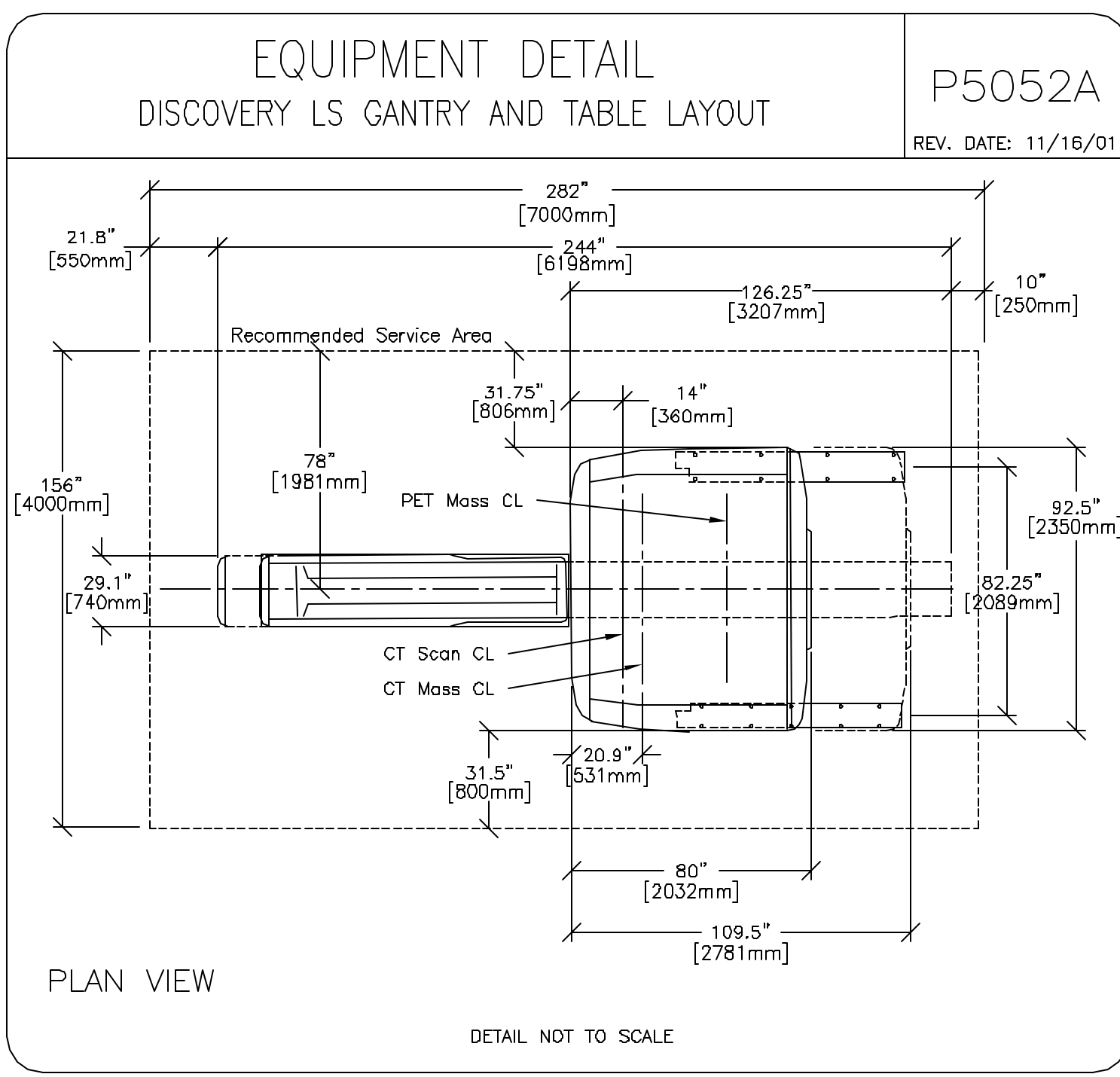
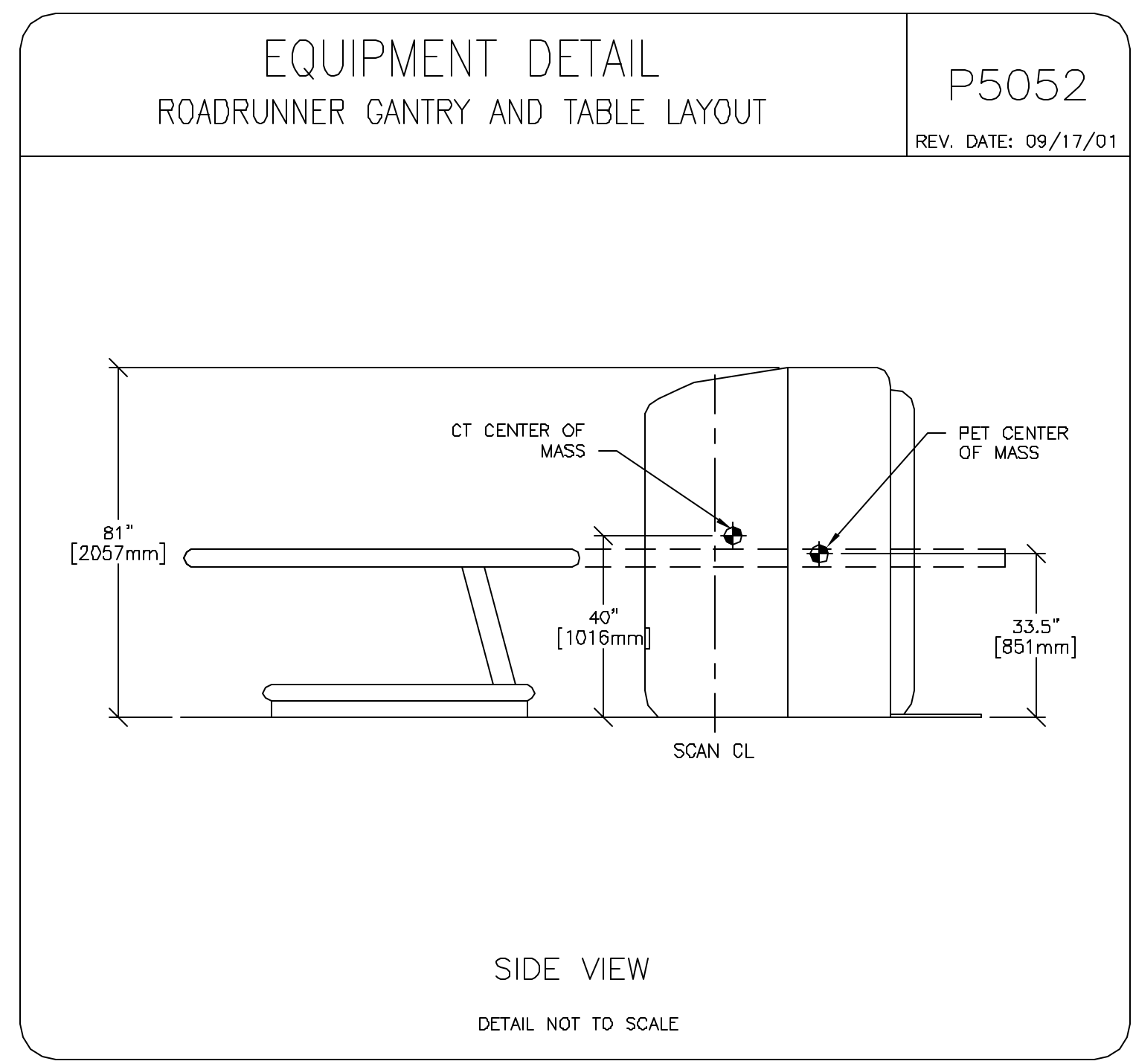
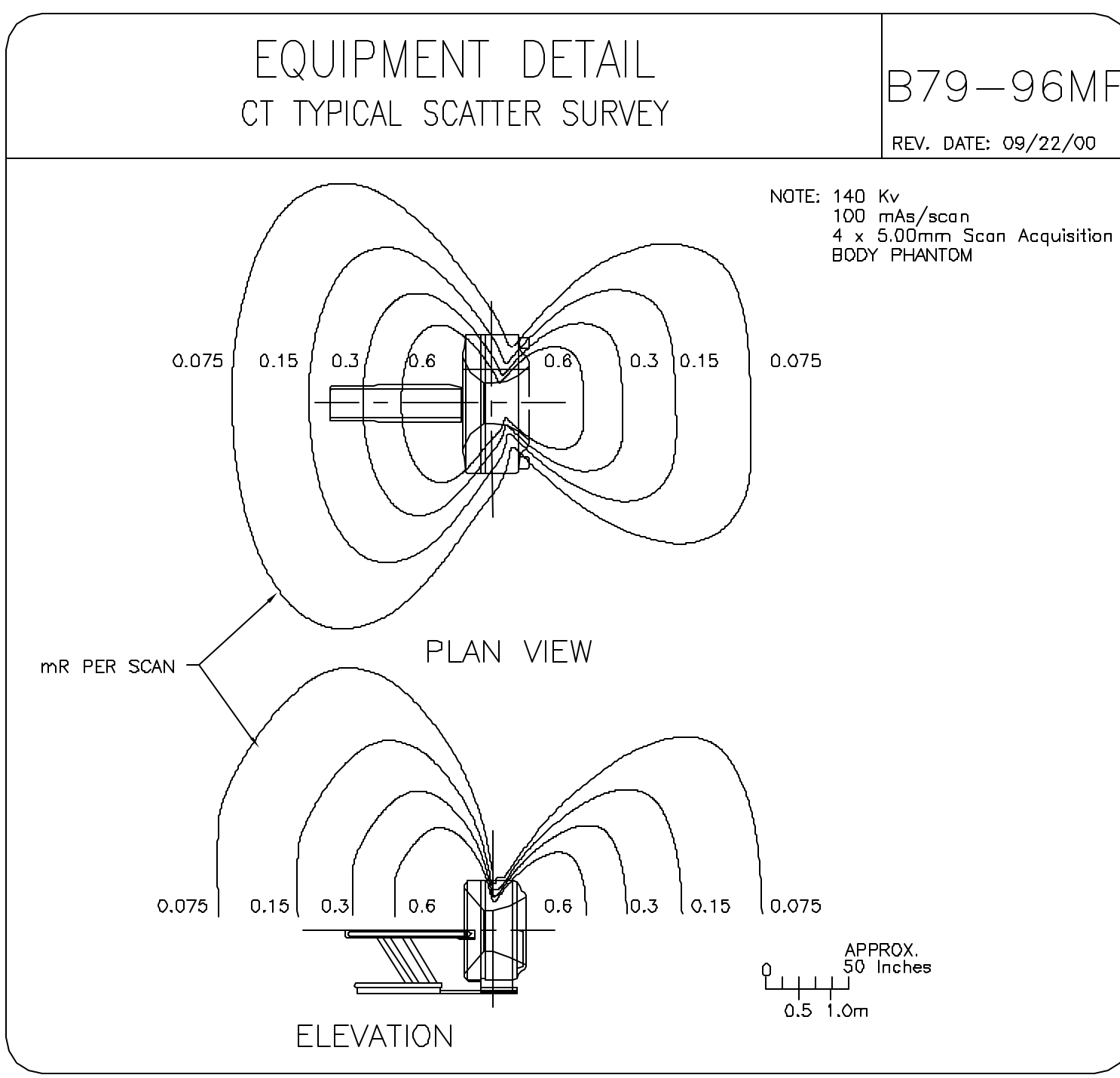
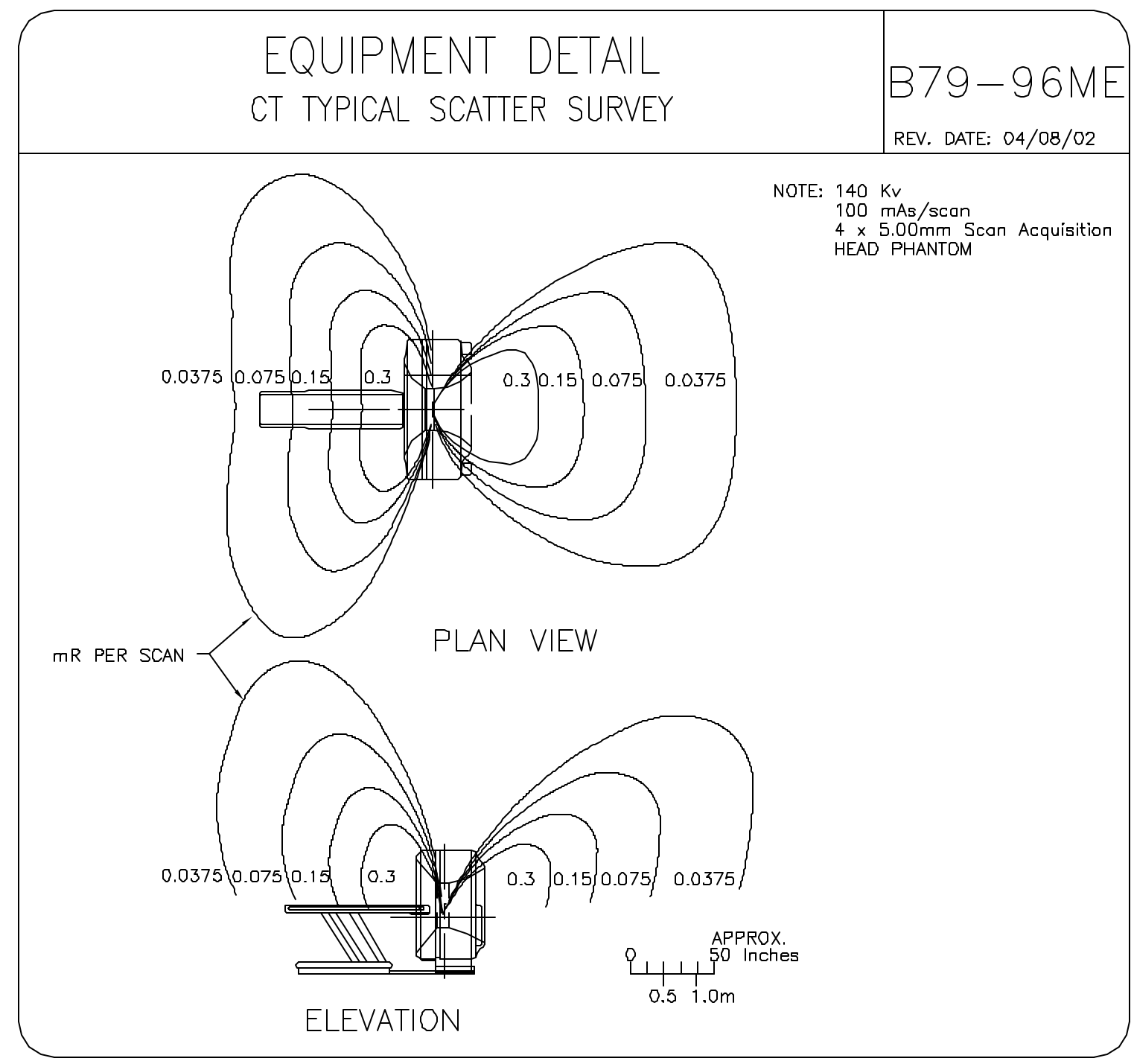
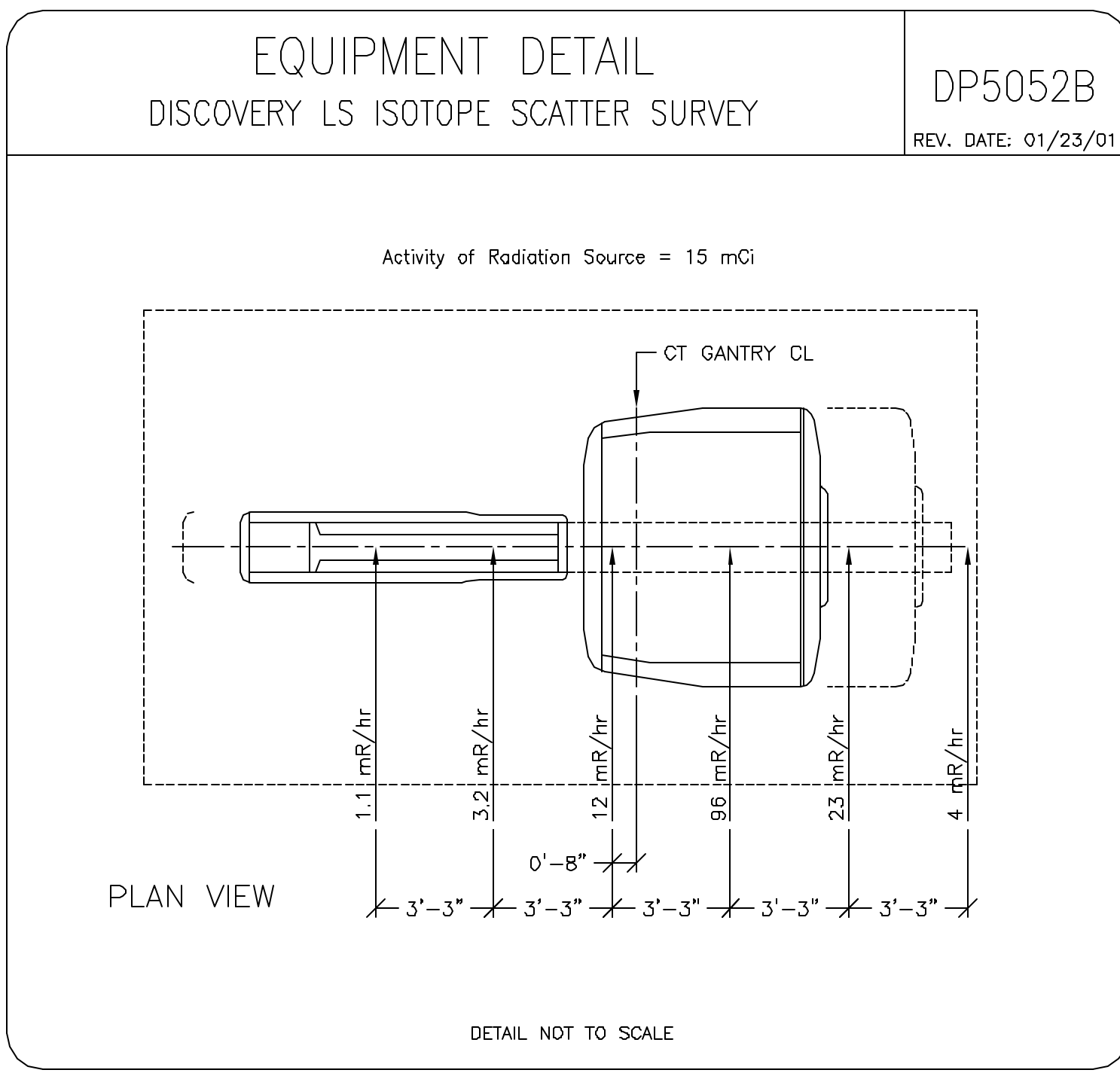
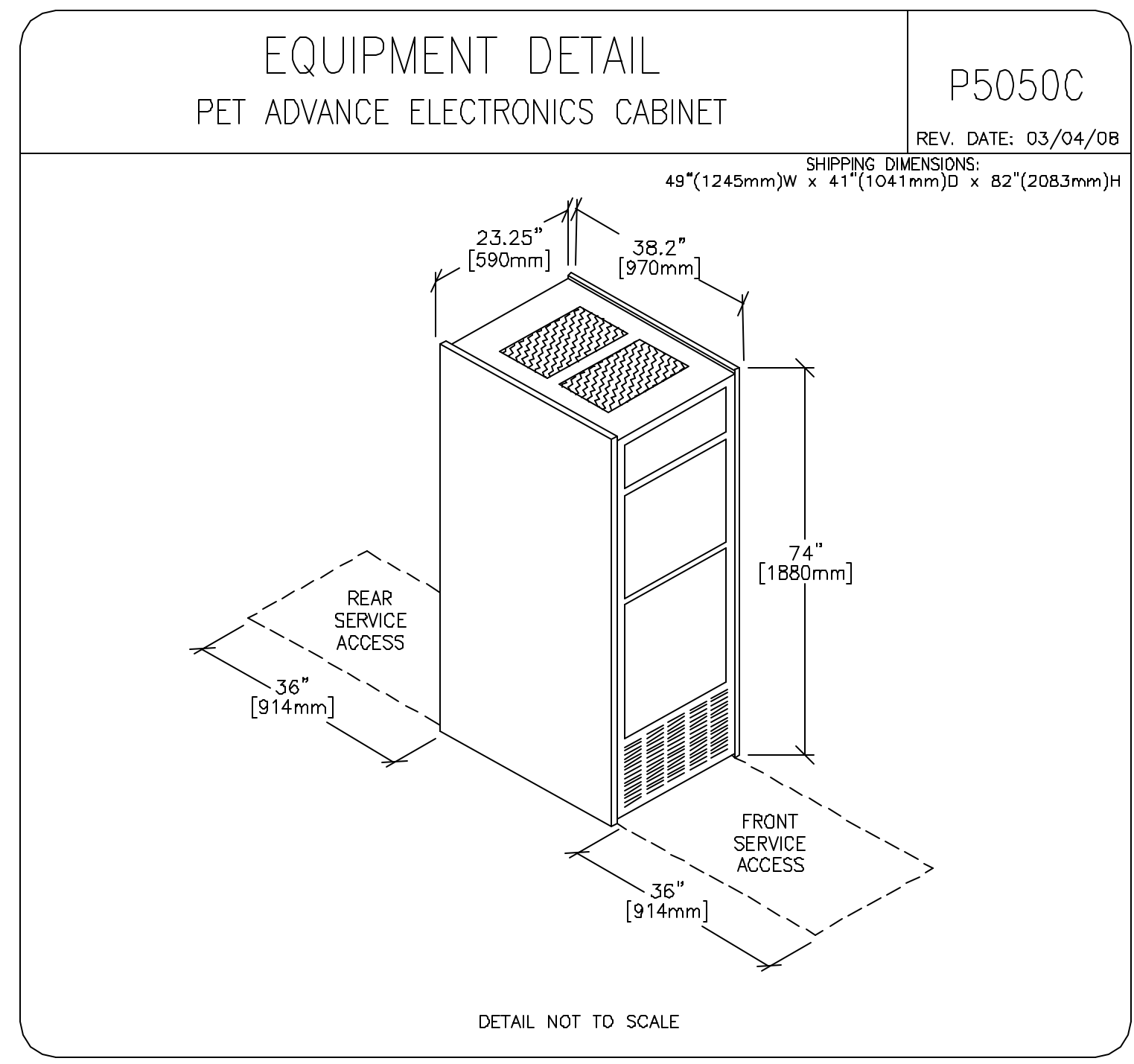
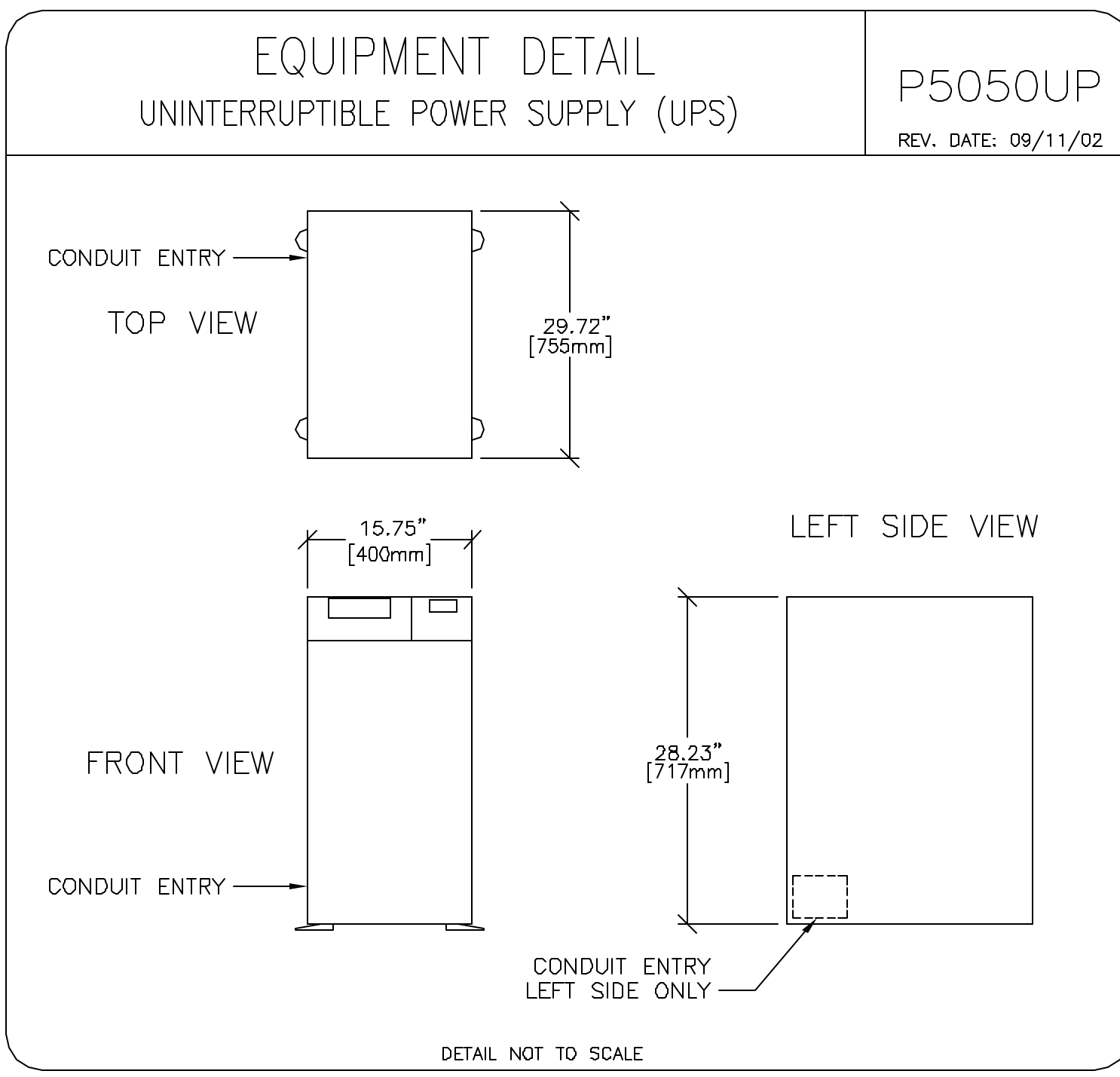
TYPICAL CT-PET
12-10F
TYPICAL INSTALLATION DRAWINGS

PROJECT	REVISION
12-10F	03
DATE:	06-29-08
DRAWN BY:	DMH
CHECKED BY:	AJS

REVISION HISTORY:

SHEET
E3

GE Healthcare Technologies
Installation Services Design Center
Milwaukee, Wisconsin



PROJECT	REVISION
12-10F	03
DATE:	06-29-08
DRAWN BY:	DMH
CHECKED BY:	AJS

REVISION HISTORY:
