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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 *

Discovery CT750 HD
Pre Installation Manual
5220253–1EN

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

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

www.gehealthcare.com/siteplanning

GE Healthcare



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 DOC0422752					
GEHC Global Order # : _____			Customer: _____		
GEHC PMI : _____			FE / Installer: _____		
The customer is responsible for proper site preparation regardless of any GEHC measurements/inspections/assessments.					
		Inspection Date: _____			
GEHC Minimum Requirements		Storage is item ready?	PMI is item ready?	FE is item 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 monitoring and phone service is available during delivery. Surface mount vibromat 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 3dskin@COEMB@ge.com, that it is compliant with GEHC specifications. Dock Bolt and magnet anchors (if applicable) installed using 2 part anchor. For HDx systems, blower box mount bolts installed by RF vendor using 2 part anchors				
3	State Regulatory Requirements: Facility registration number provided for states of IL, KY, HI, RI, SC, TX, LA, WA. X-ray shielding plan and state acknowledgment letter provided to installer for AR, DC, NC, SC, CO				
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, rollback truck, etc)				
7	Finished Room Requirements: Rooms that will contain equipment, including storage areas not in scan suite, are dust free. Provisions taken to maintain a dust free 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 (MDPI) is installed per GE guidelines and system power is available. Conduits, electrical cable ducting/dividers/cable trays, and access flooring is installed in proper location and height. Surface floor duct and load-side wires can be installed at time of system installation. Validate outlet location and requirements meet specifications for device/equipment.				
9	HVAC Requirements: The HVAC/Chilled Water systems 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: Floor is clean and prepared for final floor covering. Floor levelness/flatness is measured and within tolerance, and there are no visible defects per GEHC specifications. Confirm customer anchoring plan aligns with designed floor thickness. Final flooring installed where required for network racks.				
11	Ceiling Requirements: Unistrut (or equivalent) location, levelness and spacing is measured (or vendor confirmed) and consistent with the requirement 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 PMI discretion.				
12	Staging Requirements: Space has been identified to support the active installation process only. This area meets PIM/project book 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 XR units have been completed.				
14	Medical Gases Requirements: Systems (hard piped or portable) in place to allow testing and calibration of equipment (anesthesia), including ventilation.				

GE Healthcare

IS Services Design Center

Milwaukee, Wisconsin

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SHEET TITLE: SITE READINESS

MODALITY TYPE: DISCOVERY CT750 HD

THIS PLAN IS SUBMITTED TO SUGGEST LOCATION OF GE HEALTHCARE EQUIPMENT AND ASSOCIATED APPARATUS, ELECTRICAL WIRING DETAILS AND ROOM ARRANGEMENTS. IN PREPARING THIS PLAN, EVERY EFFORT HAS BEEN MADE TO CONFORM DETAILS TO THE LATEST GEHC PIM. THE CUSTOMER IS RESPONSIBLE FOR VERIFYING THE ACTUAL CONSTRUCTION PHASES. GEHC DOES NOT ACCEPT THE COMPANY CANNOT ACCEPT RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE: VA MIDDLETON

MADISON, WISCONSIN

PROJECT	REVISION
141020	01
DATE: 01.Apr.14	
DRAWN BY: MKL	
CHECKED BY: TMS	
GON NO: 4181445	
GON DT: 26.Mar.14	

REVISION HISTORY:

1. DLP – 09.Jul.15

CHECKED BY: TMS

SHEET

C1

This drawing is based on Sketch No.: 14cc027a

PIM R12

RQ – 153258

GE EQUIPMENT LISTING									
EQUIPMENT ON ORDER FROM GE HEALTHCARE, INSTALLED BY GE HEALTHCARE, PER GON 4181445 DATED 26.Mar.14						EQUIPMENT CROSS REFERENCE CHART			
NOTE: LOCAL CONDITIONS MAY DICTATE THAT ITEMS IDENTIFIED IN THIS CATEGORY BE INSTALLED BY OTHERS.						SEISMIC STATUS	P = PREAPPROVAL C = CALCULATIONS/ PENDING APPROVAL S = SPECIFICATIONS ONLY		
ITEM NO.	QUANTITY ORDERED	REFER TO SHEET "D"						STRC PLAN	ELEC PLAN
ITEM NO.	ITEM DESCRIPTION (* = EXISTING/REINSTALL)		WEIGHT	HEAT OUTPUT (PER HOUR)	DETAIL NO.				
①	1	OPERATOR'S CONSOLE / COMPUTER WITH MONITORS	568 lbs	6000 btu	B7858B	-	CC	S	
②	1	OPERATOR'S CHAIR						-	
③	1	POWER DISTRIBUTION UNIT	798 lbs		B7858D	-	PM	S	
④	1	LCD MONITOR	61 lbs	300 btu	B5031S	-	SVM	S	
⑤	1	STORAGE CABINET (EMPTY CABINET WEIGHT)	99 lbs		M33005	-		-	
⑥	1	REAR CABLE COVER			B8141			-	
⑦	1	DISCOVERY CT750 HD GANTRY (BUT'S INCLUDE GANTRY, TABLE & PDU)	4049 lbs	35007 btu	B7864D B7864E B7864A B7864B B7864C B7864E1	B7867	CTT	C	
⑧	1	GT1700 PATIENT TABLE WITH EXTENDED TABLE TOP	881 lbs		B7917	-		-	
⑨	0	UPS SYSTEM	619 lbs	5122 btu	B7864PZ	-	UPS	-	
NOTE: ABOVE ITEMS (0) ARE NOT ON CURRENT QUOTE OR PURCHASE ORDER. SHOWN FOR FUTURE REFERENCE.									
THE FOLLOWING ITEMS, WHICH HAVE BEEN ORDERED FROM GE HEALTHCARE, ARE TO BE INSTALLED BY THE CUSTOMER OR HIS CONTRACTOR.									
⑩	1	MAIN DISCONNECT CONTROL	132 lbs		E4502AE	-	A1	C	

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

EQUIPMENT LAYOUT

EXISTING 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.

Diagram showing the layout of the CT Scan Room and Control Room. Dimensions include 23'-4", 8'-6", 4'-10", 6'-5", 1'-6", 0'-10", 7'-9", 20'-5", 18'-10", 17'-1", 8'-7", 9'-4", 6'-6", 8'-0", 11'-5", 7'-0", 4'-5", 2'-4". Equipment locations are marked with numbers 1 through 90. A callout box indicates 'VERIFY LOCATION' for item 5.

GE Project Manager: ANNETTE RALLO-KOHLHAGEN
Telephone: 262-957-7236

THE GE M&P TECHNICAL SUPPORT GROUP IS AN ADDITIONAL RESOURCE THAT CAN PROVIDE ANSWERS FOR GENERAL GE PRODUCT SITING QUESTIONS AND CAN BE REACHED AT (877)-305-9677

ANCILLARY ITEMS

CUSTOMER/CONTRACTOR SUPPLIED AND INSTALLED ITEMS

ITEM NO.	ITEM DESCRIPTION (* INDICATES EXISTING)
60	*COUNTER TOP WITH WALL CABINETS
61	*LEAD GLASS WINDOW
62	*CABINET
63	*COUNTER TOP WITH BASE CABINETS
64	*COUNTER TOP WITH SINK, BASE AND WALL CABINETS
65	*INJECTOR HEAD ON OVERHEAD COUNTERPOISED SUSPENSION.
66	*INJECTOR ELECTRONICS
67	MINIMUM DOOR OPENING FOR EQUIPMENT DELIVERY IS 44 IN. W X 83 IN. H. (118mm X 2108mm). CONTINGENT ON A 96 IN. (2438mm) CORRIDOR WIDTH
68	X-RAY ON WARNING LIGHT - AVAILABLE FROM GE SUPPLY CALL: 800-200-9760 GE CAT. NO. WX1ABWW-DF-XIU
69	DOOR LIMIT SWITCH (REQUIRED IN SOUTH CAROLINA, OTHERWISE NEEDED ONLY IF REQUIRED BY STATE/LOCAL CODES)
90	X-RAY ROOM WARNING LIGHT CONTROL PANEL (REFERENCE FUNCTION POINT WLC ON SHEET 'E1' FOR DETAILED DESCRIPTION -E4502RL FOR WARNING LIGHT CONTROL ONLY.

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

GENERAL SPECIFICATIONS

- THE REQUIRED CEILING HEIGHT INDICATED ON THESE PLANS IS TO ENSURE EQUIPMENT FUNCTION IS NOT INHIBITED. CONSULT WITH YOUR LOCAL GEHC SPECIALIST REGARDING ACCEPTABILITY OF OTHER CEILING HEIGHTS.
- CHECK ALL DOOR OPENINGS AND HALLWAYS FROM DELIVERY LOCATION TO WHERE EQUIPMENT IS TO BE INSTALLED TO ENSURE THE ROUTE PHYSICALLY AND STRUCTURALLY WILL ACCOMMODATE THE EQUIPMENT AS SHIPPED.
- RADIATION PROTECTION REQUIREMENTS ARE NOT INDICATED ON THIS PLAN. WHERE NEEDED PER NATIONAL OR LOCAL CODE THEY SHALL BE SPECIFIED BY A QUALIFIED RADIOLOGICAL PHYSICIST.
- THE DEVELOPMENT OF THE EQUIPMENT LAYOUT, ROOM DIMENSIONS, MECHANICAL AND ELECTRICAL SUGGESTIONS IS PREDICATED UPON THE BEST INFORMATION OBTAINABLE FROM THE SITE, COUPLED WITH THE CUSTOMER'S KNOWN DESIRES. ARCHITECTURAL OR ELECTRICAL CHANGES INCLUDING RELOCATION OF EQUIPMENT ILLUSTRATED ON THIS DRAWING IS ALLOWED ONLY WITH NOTIFICATION, IN WRITING, AND REVIEW BY GEHC SERVICE DEPARTMENT. EQUIPMENT OPERATION, SERVICEABILITY, AND RESTRICTING CABLE LENGTHS, ETC., MAKE THIS ESSENTIAL FOR A PROPER 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 64°-79° F (18°-26° C)
EQUIPMENT ROOM (IF SEPARATE): TEMPERATURE RANGE 64°-79° F (18°-26° 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 7,875 FT. (2400M) 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 1 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

GE Healthcare

Healthcare Project Implementation - Design Center
Milwaukee, Wisconsin

EQUIPMENT LAYOUT

MODALITY TYPE: DISCOVERY CT750 HD

VA MIDDLETON

MADISON, WISCONSIN

PROJECT TITLE:

PROJECT NO. 141020

REVISION 01

DATE: 01.Apr.14

DRAWN BY: MKL

CHECKED BY: TMS

GON NO: 4181445

GON DT: 26.Mar.14

REVISION HISTORY:

1 DJP - 09.Jul.15

CHECKED BY: TMS

SHEET

A1

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

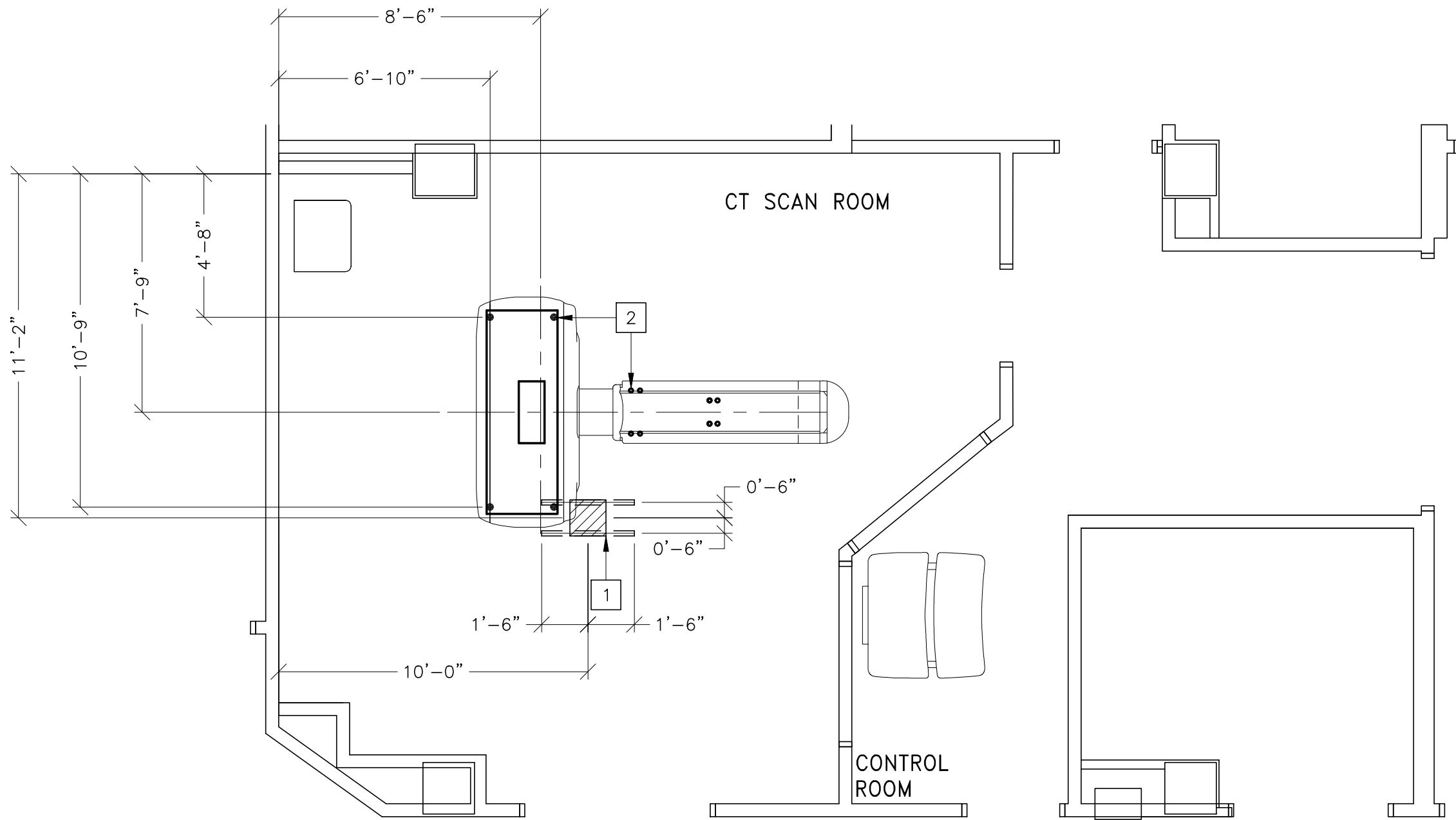
472-353

TYPICAL WALL SUPPORT ELEVATIONS

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

STRUCTURAL LAYOUT

EXISTING CEILING HEIGHT = 9'-6"



GE Project Manager: ANNETTE RALLO-KOHLHAGEN
Telephone: 262-957-7236

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REACHED AT (877)-305-9677

STRUCTURAL SUPPORT METHODS

CUSTOMER/CONTRACTOR SUPPLIED AND INSTALLED ITEMS

ITEM NO.	ITEM DESCRIPTION (* INDICATES EXISTING)
1	THE PEDESTAL-CEILING MOUNT REQUIRES A FLUSH CEILING MOUNTING PLATE THAT IS STRUCTURALLY SUPPORTED TO HANDLE THE WEIGHT OF THE LOAD AS SHOWN IN DETAIL B50-31B. IF AN EQUIVALENT PLATE IS USED, THE SUPPLIED TEMPLATE SHOULD BE USED TO DRILL THE REQUIRED 4" - .99" HOLES IN A PATTERN AS SHOWN IN DETAIL B50-31B. AN ADDITIONAL .92" HOLE IS REQUIRED FOR THE PEDESTAL-CEILING MOUNT SAFETY CHAIN.
2	LEVELING AREA FOR GANTRY AND TABLE SEE DETAIL B78-64 ON SHEET S2.

STRUCTURAL NOTES

- ALL STEEL WORK AND PARTS NECESSARY TO SUPPORT CEILING MOUNTED EQUIPMENT IS TO BE SUPPLIED BY THE CUSTOMER OR HIS CONTRACTORS.
- 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 1/4" BELOW THE FINISHED CEILING.
- FLOOR SLABS ON WHICH EQUIPMENT IS TO BE INSTALLED MUST BE LEVEL TO 1/4" in 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: DISCOVERY CT750 HD

THIS PLAN IS SUBMITTED TO SUGGEST LOCATION OF GE HEALTHCARE EQUIPMENT AND ASSOCIATED APPARATUS, ELECTRICAL WIRING DETAILS AND ROOM ARRANGEMENTS. IN PREPARING THIS PLAN, EVERY EFFORT HAS BEEN MADE TO CONFORM DETAILS TO GE CONSTRUCTION PRACTICES. HOWEVER, THE COMPANY CANNOT ACCEPT RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:

VA MIDDLETON

MADISON, WISCONSIN

PROJECT	REVISION
141020	01
DATE:	01.Apr.14
DRAWN BY:	MKL
CHECKED BY:	TMS
GON NO:	4181445
GON DT:	26.Mar.14

REVISION HISTORY:
1 DJP - 09.Jul.15
CHECKED BY: TMS

SHEET

S1

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

472-303

RQ - 153258

PM R12

This drawing is based on Sketch No.: 14cc027a

GE Healthcare

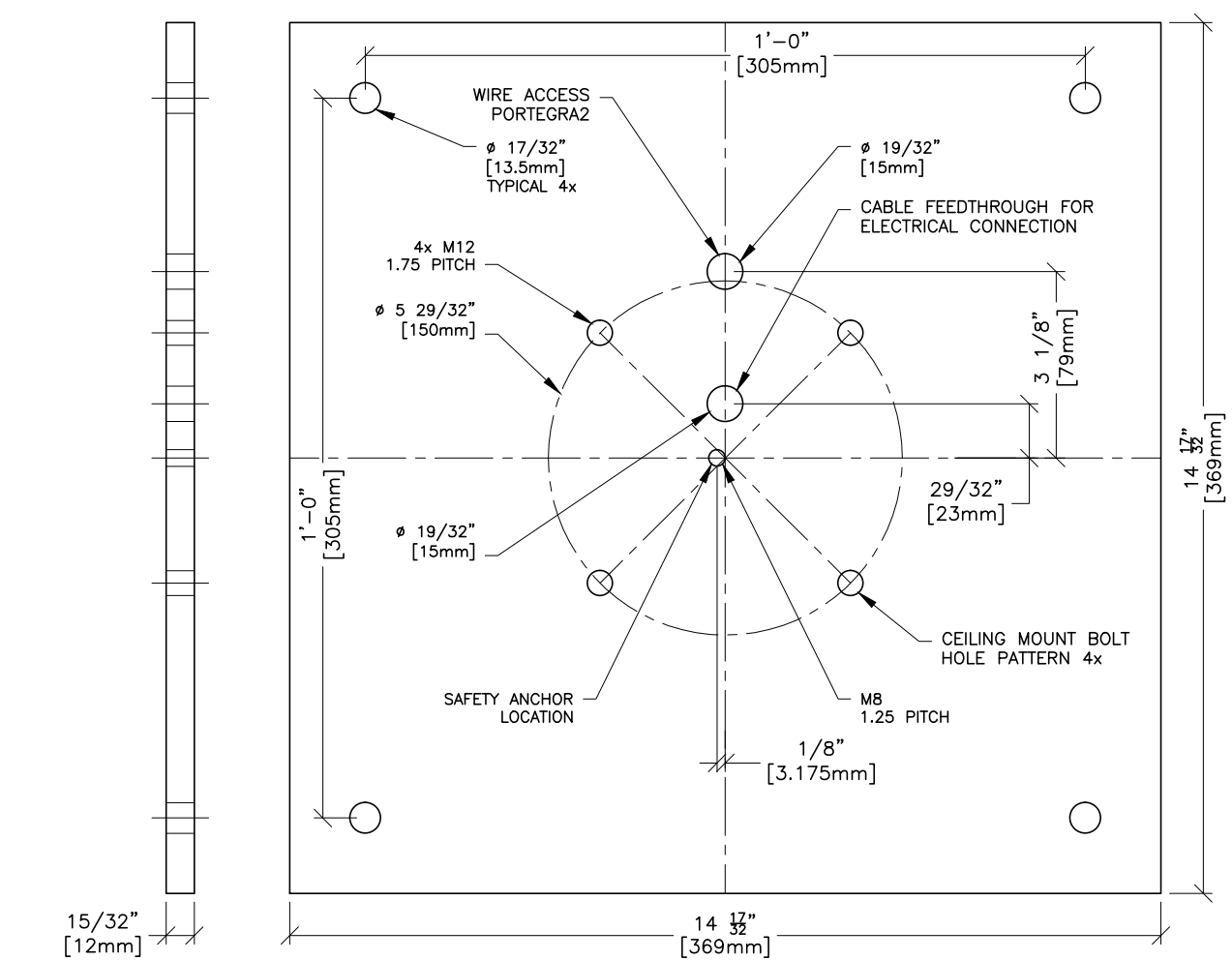


Healthcare Project Implementation - Design Center
Milwaukee, Wisconsin

SUPPORT DETAIL
OVERHEAD COUNTERPOISED SUSPENSION

B50-31B

REV. DATE: 09.Jul.13



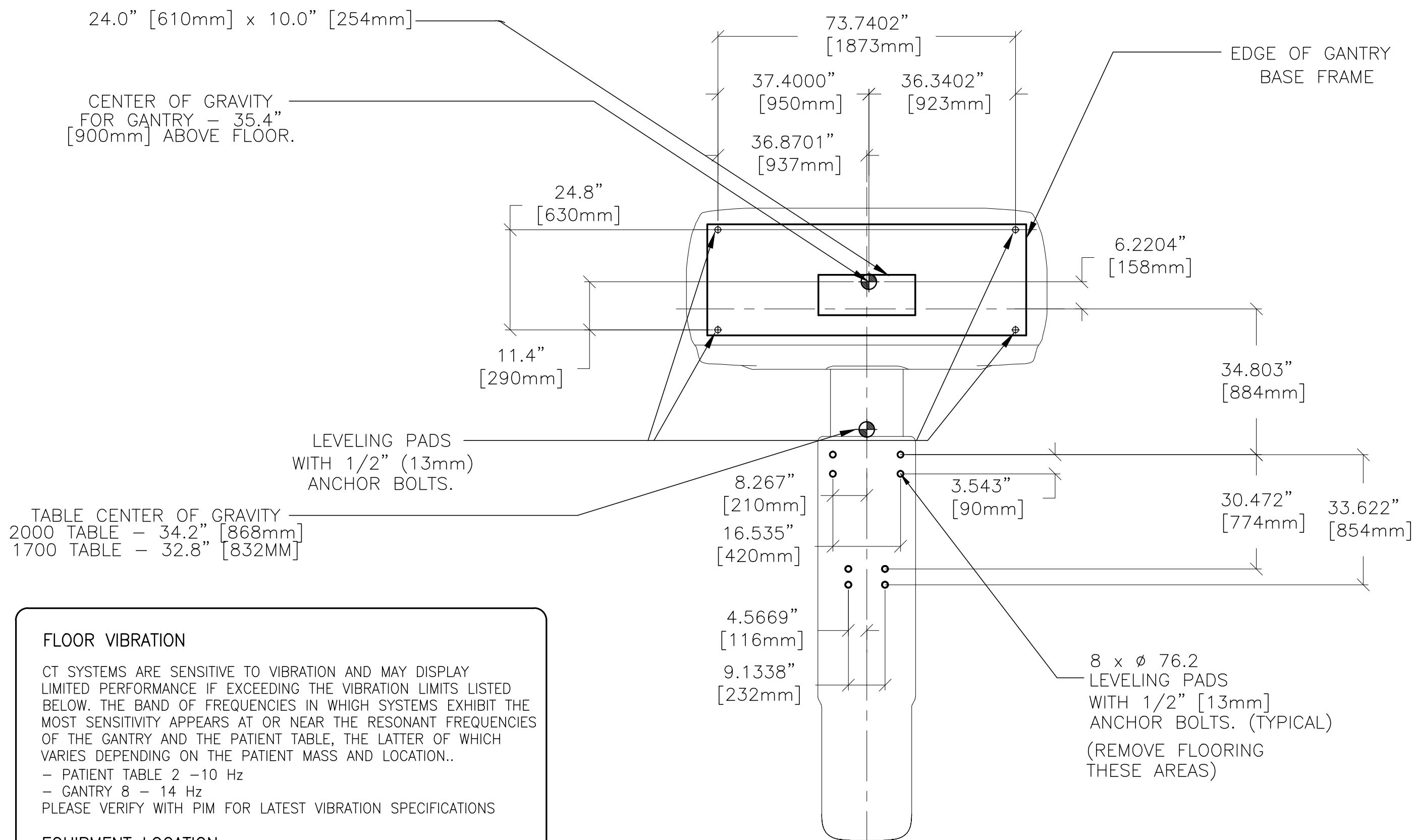
THE SUPPORT STRUCTURE FOR THIS CEILING MOUNTED OPTION AND A FLUSH MOUNTING PLATE MUST BE DESIGNED BY A STRUCTURAL ENGINEER AND INSTALLED BY A QUALIFIED CONTRACTOR PRIOR TO THE CT INSTALLATION

DRAWING NOT TO SCALE

DISCOVERY CT750 HD GANTRY AND TABLE ANCHOR/LEVELING

B7867

REV. DATE: 10.Jul.13



FLOOR VIBRATION

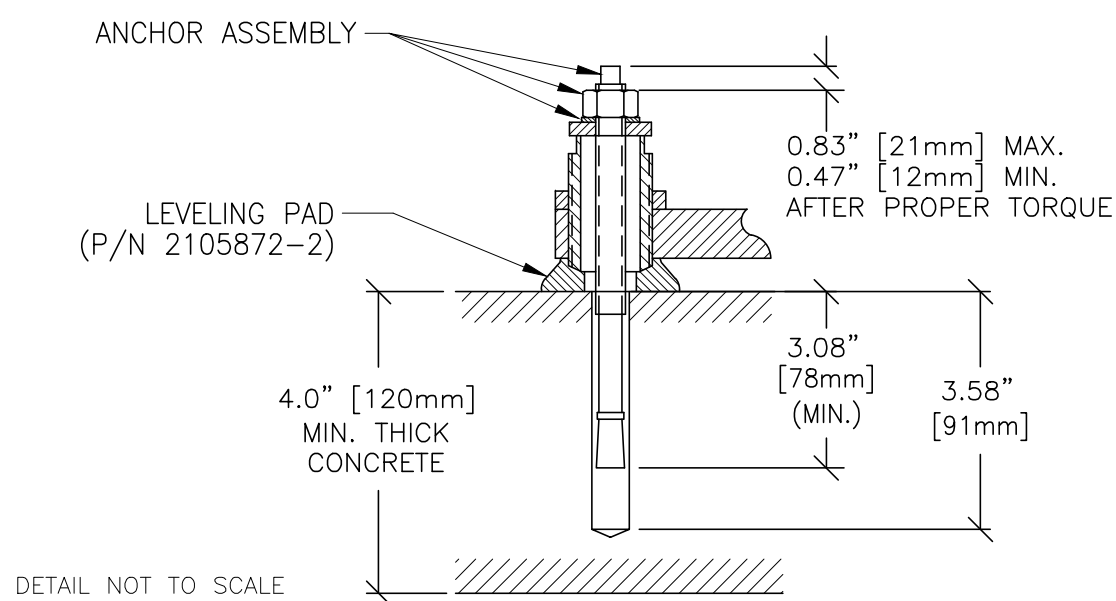
CT SYSTEMS ARE SENSITIVE TO VIBRATION AND MAY DISPLAY LIMITED PERFORMANCE IF EXCEEDING THE VIBRATION LIMITS LISTED BELOW. THE BAND OF FREQUENCIES IN WHICH SYSTEMS EXHIBIT THE MOST SENSITIVITY APPEARS AT OR NEAR THE RESONANT FREQUENCIES OF THE GANTRY AND THE PATIENT TABLE, THE LATTER OF WHICH VARIES DEPENDING ON THE PATIENT MASS AND LOCATION..

- PATIENT TABLE 2 -10 Hz
- GANTRY 8 - 14 Hz

PLEASE VERIFY WITH PIM FOR LATEST VIBRATION SPECIFICATIONS

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

This drawing is based on Sketch No.: 14cc027a

PIM R12

RQ - 153258

SHEET TITLE: STRUCTURAL DETAILS

MODALITY TYPE: DISCOVERY CT750 HD

THIS PLAN IS SUBMITTED TO SUGGEST LOCATION OF GE HEALTHCARE EQUIPMENT AND ASSOCIATED APPARATUS. ELECTRICAL WIRING DETAILS AND ROOM ARRANGEMENTS, IN PREPARING THIS PLAN, EVERY EFFORT HAS BEEN MADE TO CONFORM DETAILS TO THE ACTUAL CONSTRUCTION. HOWEVER, THE USER SHALL BE RESPONSIBLE FOR THE ACTUAL CONSTRUCTION. GE HEALTHCARE DOES NOT ACCEPT RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:

VA MIDDLETON

MADISON, WISCONSIN

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141020	01
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REVISION HISTORY:	
1	DJP - 09.Jul.15
CHECKED BY: TMS	

SHEET

S2

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

ELECTRICAL PLAN

EXISTING CEILING HEIGHT = 9'-6"

JUNCTION POINT DESCRIPTIONS

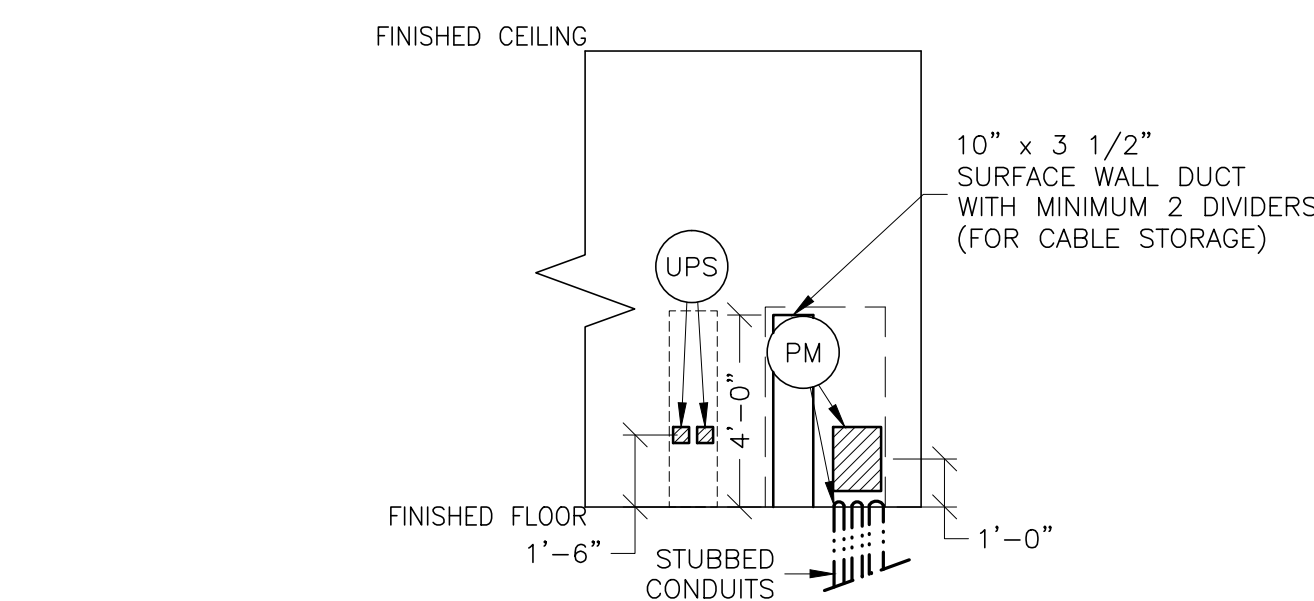
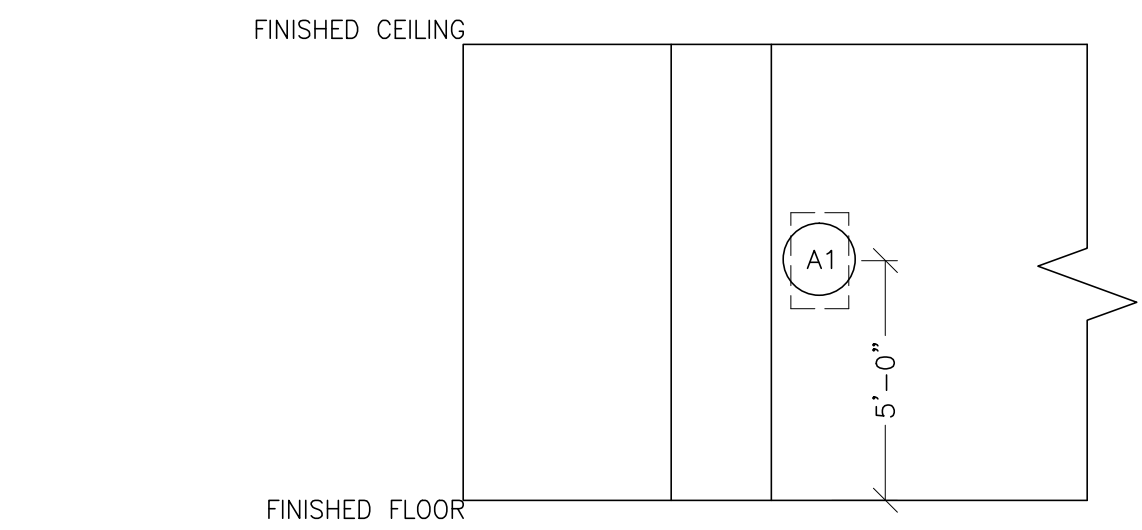
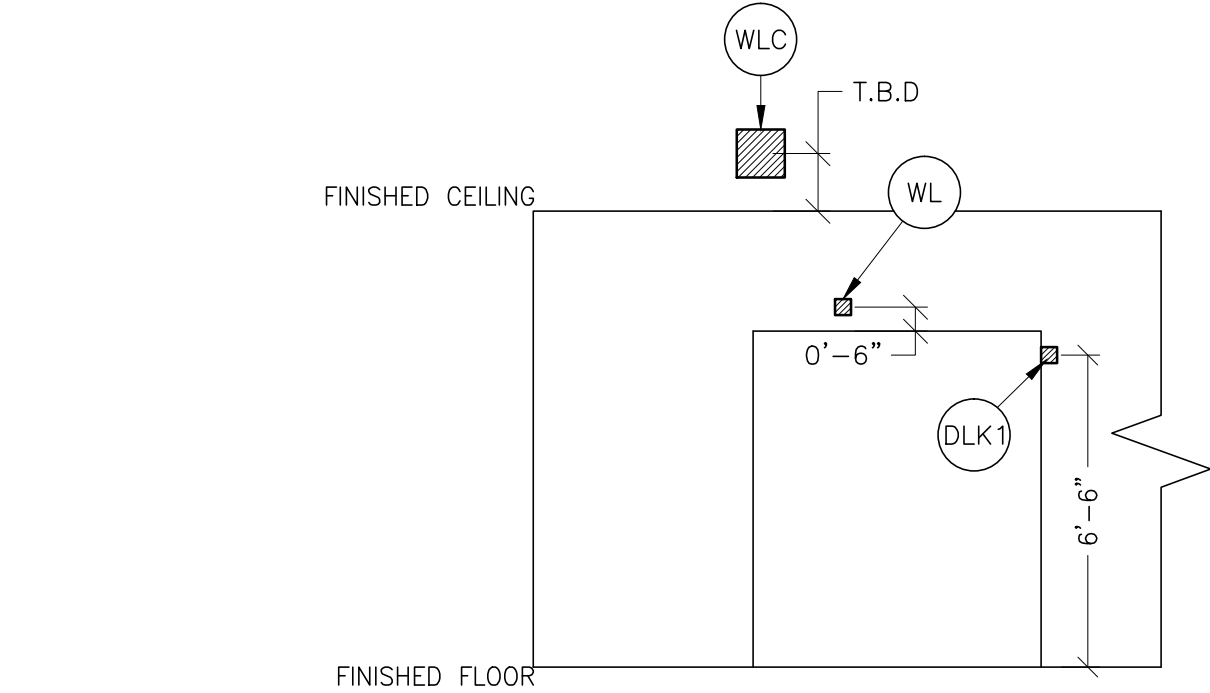
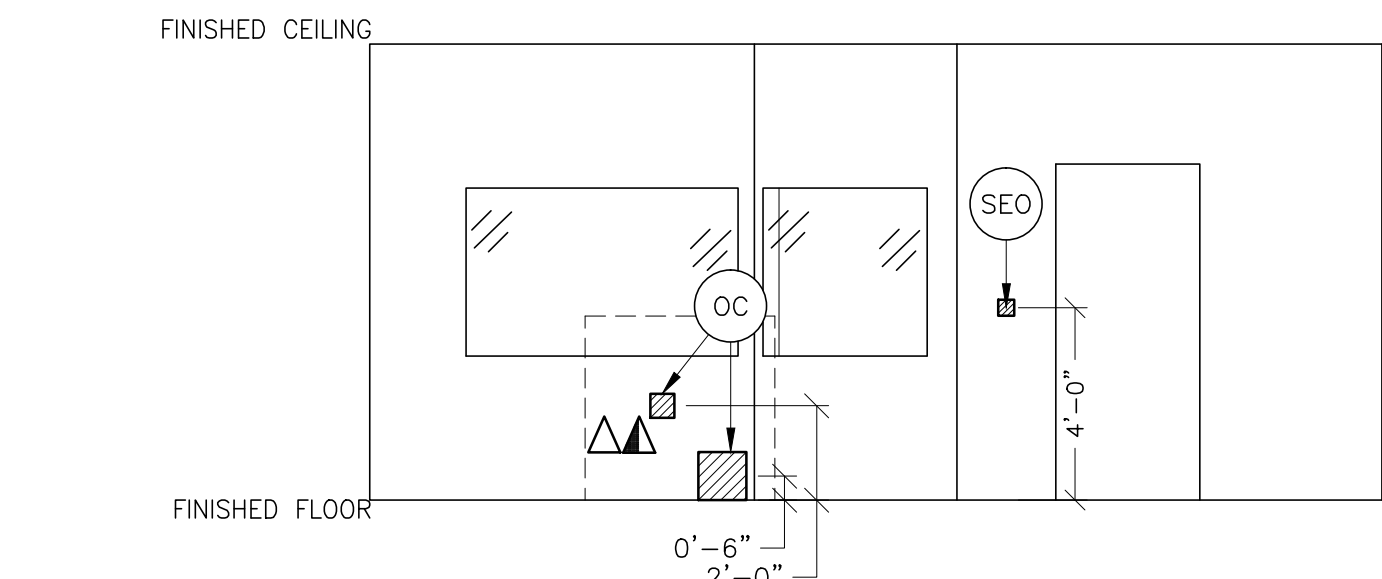
POINT	THE FOLLOWING MATERIALS ARE TO BE SUPPLIED AND INSTALLED BY THE CUSTOMER'S ELECTRICAL CONTRACTOR		
	DESCRIPTION	QTY.	HARDWARE
A1	MAIN DISCONNECT	1	PANEL - INCLUDED IN ORDER
CTT	CT SCANNER	2	3 1/2 IN. DIA. BUSHING & LOCKNUT
DLK1	DOOR SWITCH (REQUIRED ONLY IF REQUIRED BY STATE/LOCAL CODES)	1	1/2 IN. DIA. BUSHING & LOCKNUT
OC	OPERATORS CONSOLE	1	ROOM DOOR INTERLOCK LIMIT SWITCH IN FRAME - NORMALLY OPEN <24V>
PM	POWER DISTRIBUTION UNIT	1	SPLIT COVERPLATE
SEO	EMERGENCY OFF	1	1/2 IN. DIA. CHASE NIPPLE
SVM	LCD MONITOR	1	1/2 IN. DIA. CHASE NIPPLE
UPS	UPS CABINET	1	1/2 IN. DIA. CHASE NIPPLE
WL	WARNING LIGHT	1	1/2 IN. DIA. CHASE NIPPLE
WLC	WARNING LIGHT CONTROLLER	1	1/2 IN. DIA. CHASE NIPPLE

FEEDER TABLE - CT LightSpeed Pro 16/RT/CT, DISCOVERY CT750/590, OPTIMA CT580									
o CALCULATIONS BASED UPON NOMINAL VOLTAGE, WIRE SIZE IN AWG.									
o MINIMUM FEEDER SIZES FROM DISTRIBUTION TRANS. TO POWER DISTRIBUTION UNIT.									
o THE RECOMMENDED GROUNDING CONDUCTOR () 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.									
o NEUTRAL MUST BE TERMINATED PRIOR TO OR INSIDE THE MAIN DISCONNECT PANEL AND NOT BROUGHT INTO THE POWER DISTRIBUTION UNIT.									
o FOR A FULL SYSTEM UPS REFER TO ELECTRICAL DETAILS FOR UPS FEEDER WIRES.									
POWER SUPPLY VOLTAGE									
RUN LENGTH IN FEET	342-418 380	360-440 400	378-462 420	396-484 440	414-506 460	432-528 480			
50	1/0 (1/0)	1/0 (1/0)	1/0 (1/0)	1 (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)	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)	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)	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)	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)	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)	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)	2/0 (1/0)		
REV. DATE: 18.May.11									

PLEASE SEE BELOW FOR ADDITIONAL REQUIRED CONDUIT RUNS AND SIZES.

JUNCTION POINT NOTES

- o ALL JUNCTION BOXES, CONDUIT, DUCT, DUCT DIVIDERS, SWITCHES, CIRCUIT BREAKERS, CABLE TRAY, ETC., ARE TO BE SUPPLIED AND INSTALLED BY CUSTOMERS ELECTRICAL CONTRACTOR.
- o CONDUIT AND DUCT RUNS SHALL HAVE SWEEP RADIUS BENDS
- o CONDUITS AND DUCT ABOVE CEILING OR BELOW FINISHED FLOOR MUST BE INSTALLED AS NEAR TO CEILING OR FLOOR AS POSSIBLE TO REDUCE RUN LENGTH.
- o CEILING MOUNTED JUNCTION BOXES ILLUSTRATED ON THIS PLAN MUST BE INSTALLED FLUSH WITH FINISHED CEILING.
- o 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.
- o ALL OPENINGS IN ACCESS FLOORING ARE TO BE CUT OUT AND FINISHED OFF WITH GROMMET MATERIAL BY THE CUSTOMERS CONTRACTOR.
- o GENERAL CONTRACTOR TO INSERT PULL CORDS FOR ALL CABLE RUN CONDUITS BETWEEN THE EQUIPMENT ROOM AND THE OPERATORS CONTROL ROOM.
- o 10 FOOT PIGTAILS AT ALL JUNCTION POINTS.
- o ALL WIRING MUST BE THIN OR TFFN STRANDED COPPER THERMOPLASTIC 600 VOLT OR EQUIVALENT INSULATION. **ALUMINUM OR SOLID WIRES ARE NOT ALLOWED.**
- o GROUNDING IS CRITICAL TO EQUIPMENT FUNCTION AND PATIENT SAFETY. SITE MUST CONFORM TO WIRING SPECIFICATIONS SHOWN ON THIS PLAN.



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)			
WIRE RUN, FROM - TO	QUANTITY	WIRE SIZE/COLOR	REMARKS
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 14 POWER	CND. AS REQ'D		
DLK1 TO PM	ONE 1/2" CND.		
NOTE: SEE E2 PAGE FOR MAXIMUM RUN LENGTHS			

CONDUITS REQUIRED FOR SMARTVIEW & SMARTSTEP MONITORS (CONDUITS ARE LOCATED ABOVE CEILING)			
WIRE RUN, FROM - TO	QUANTITY	WIRE SIZE/COLOR	REMARKS
SVM TO OC (6x6x4 BOX)	ONE 1" CND.		
SVM TO OC (6x6x4 BOX)	ONE 2" CND.		
CONDUITS REQUIRED FOR UPS (CONDUITS ARE LOCATED ABOVE CEILING)			
WIRE RUN, FROM - TO	QUANTITY	WIRE SIZE/COLOR	REMARKS
UPS TO A1	ONE 1 1/4" CND.		
UPS TO PM	ONE 2" CND. (OPTIONAL) RUN DIRECT AS POSSIBLE. 12" MAX CABLE LENGTH		

ELECTRICAL OUTLET LEGEND	
△	DEDICATED TELEPHONE LINE(S) (SEE ELECTRICAL DETAIL ELEC-1 OR ELEC-97)
▲	NETWORK OUTLET (SEE ELECTRICAL DETAILS ELEC-83 AND ELEC-84 OR ELEC-87)

GE Project Manager: ANNETTE RALLO-KOHLHAGEN
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THE GE 400 TECHNICAL SUPPORT GROUP IS AN ADDITIONAL RESOURCE THAT CAN PROVIDE ANSWERS FOR GENERAL GE PRODUCT SITING QUESTIONS AND CAN BE REACHED AT (877)-305-9677

CONTRACTOR SUPPLIED AND INSTALLED WIRING

WIRE RUN, FROM - TO		QUANTITY, WIRE SIZE/COLOR
A1 > SEO	1-ND. 14 BLACK, 1-ND. 14 WHITE, 1-ND. 14 GREEN	
A1 > PM	3-BLACK, 1 GREEN - REFER TO FEEDER TABLE	
4BOV > A1	3 BLACK, 1 GREEN - REFER TO FEEDER TABLE	
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	

SHEET TITLE: ELECTRICAL LAYOUT
MODALITY TYPE: DISCOVERY CT750 HD

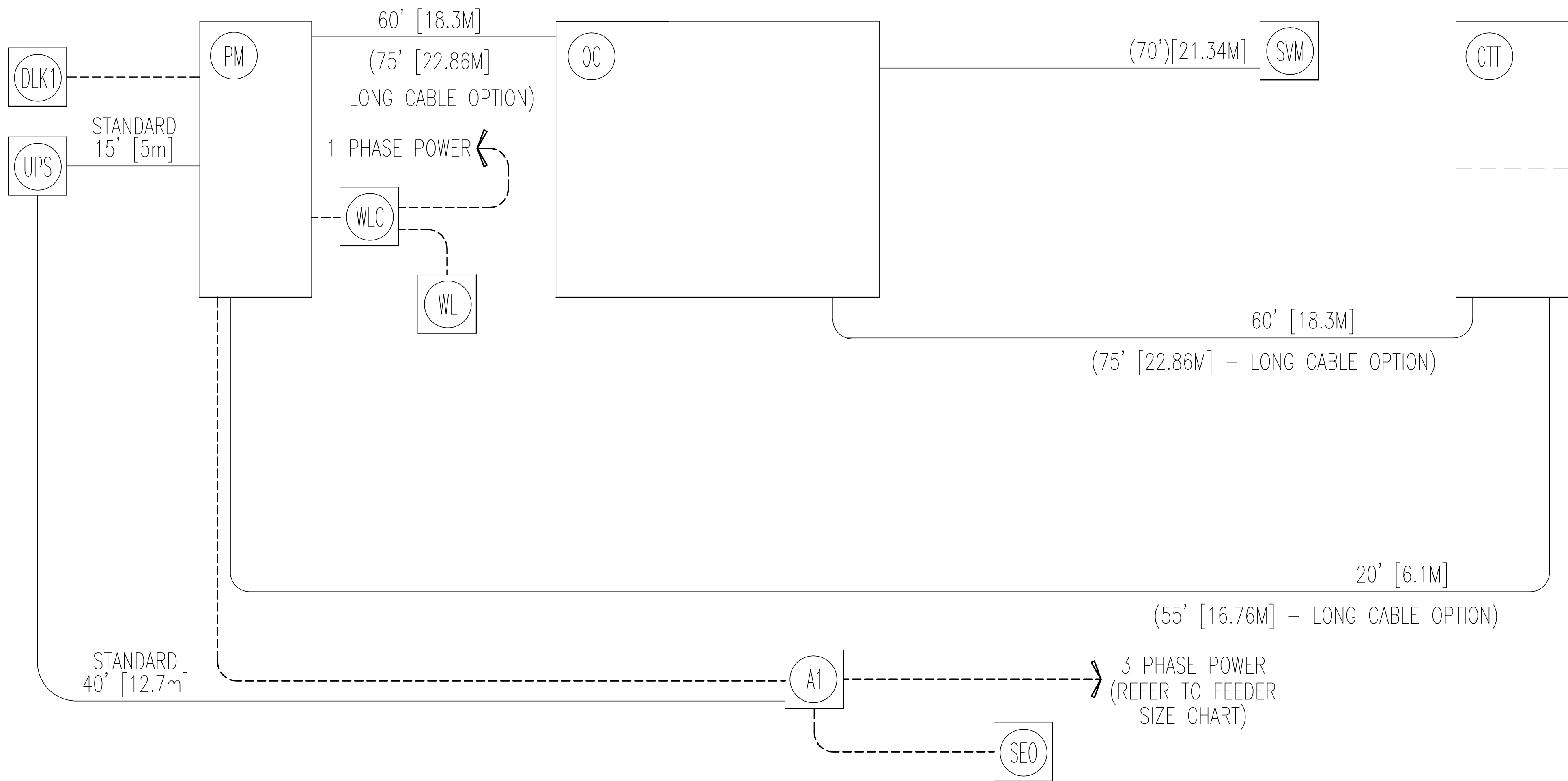
PROJECT TITLE:
VA MIDDLETON
MADISON, WISCONSIN

PROJECT	REVISION
141020	01
DATE: 01.Apr.14	
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GON DT: 26.Mar.14	

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SHEET
E1

INTERCONNECT DIAGRAM



POWER SPECIFICATIONS

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

(REV. DATE 08.Oct.14)

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

MAXIMUM DAILY VOLTAGE VARIATION MUST FALL WITHIN ONE OF THE RANGES IN TABLE A.

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-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 REGULATION WHERE FILM CHANGERS ARE USED, 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.
- NOTE 12: GEHC CONDUCTS POWER AUDITS TO VERIFY QUALITY OF POWER BEING DELIVERED TO THE SYSTEM. THE CUSTOMER'S ELECTRICAL CONTRACTOR IS REQUIRED TO BE AVAILABLE TO SUPPORT THIS ACTIVITY.

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



Healthcare Project Implementation - Design Center Milwaukee, Wisconsin

SHEET TITLE: ELECTRICAL SPECIFICATIONS

MODALITY TYPE: DISCOVERY CT750 HD

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

VA MIDDLETON

MADISON, WISCONSIN

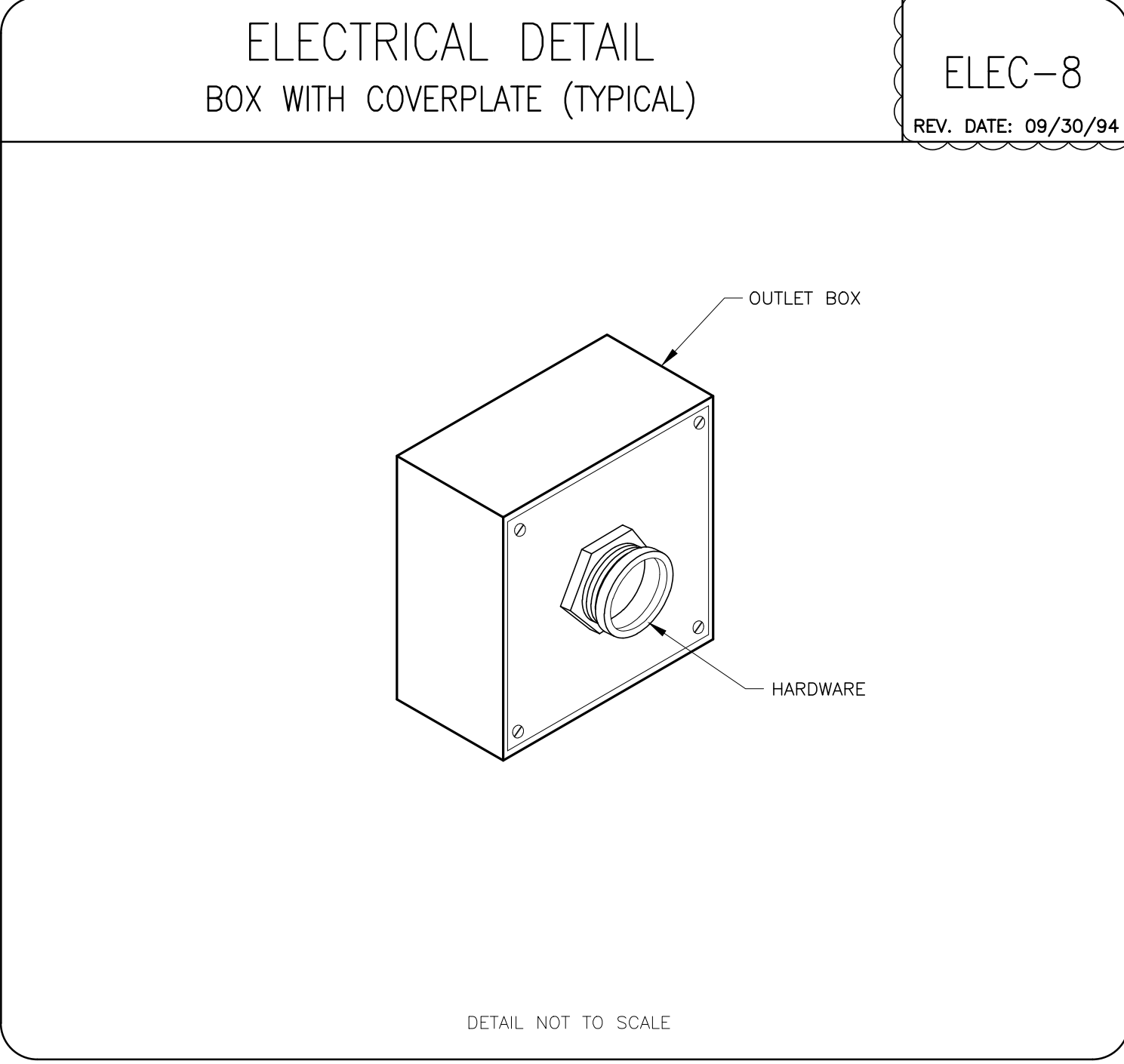
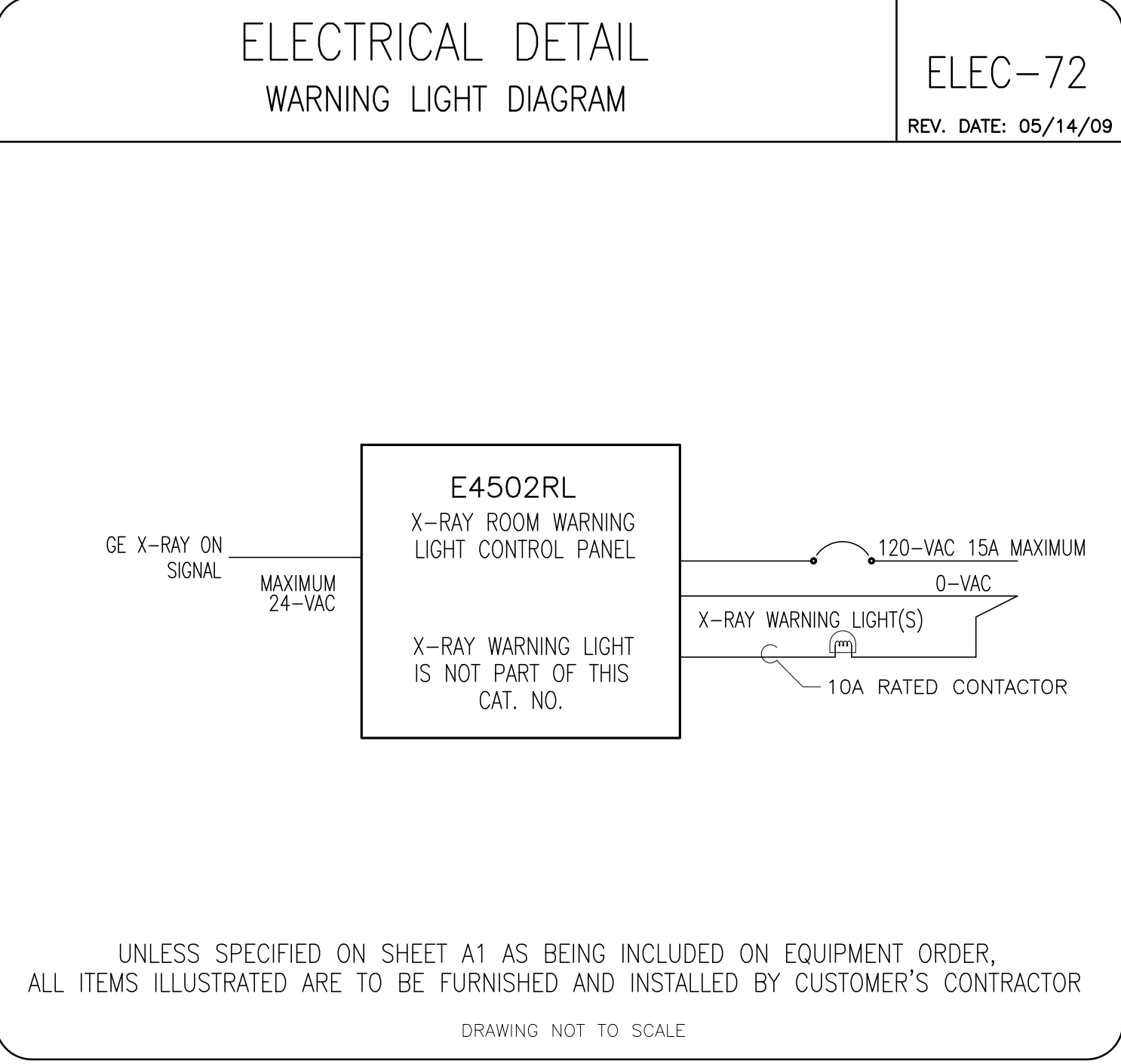
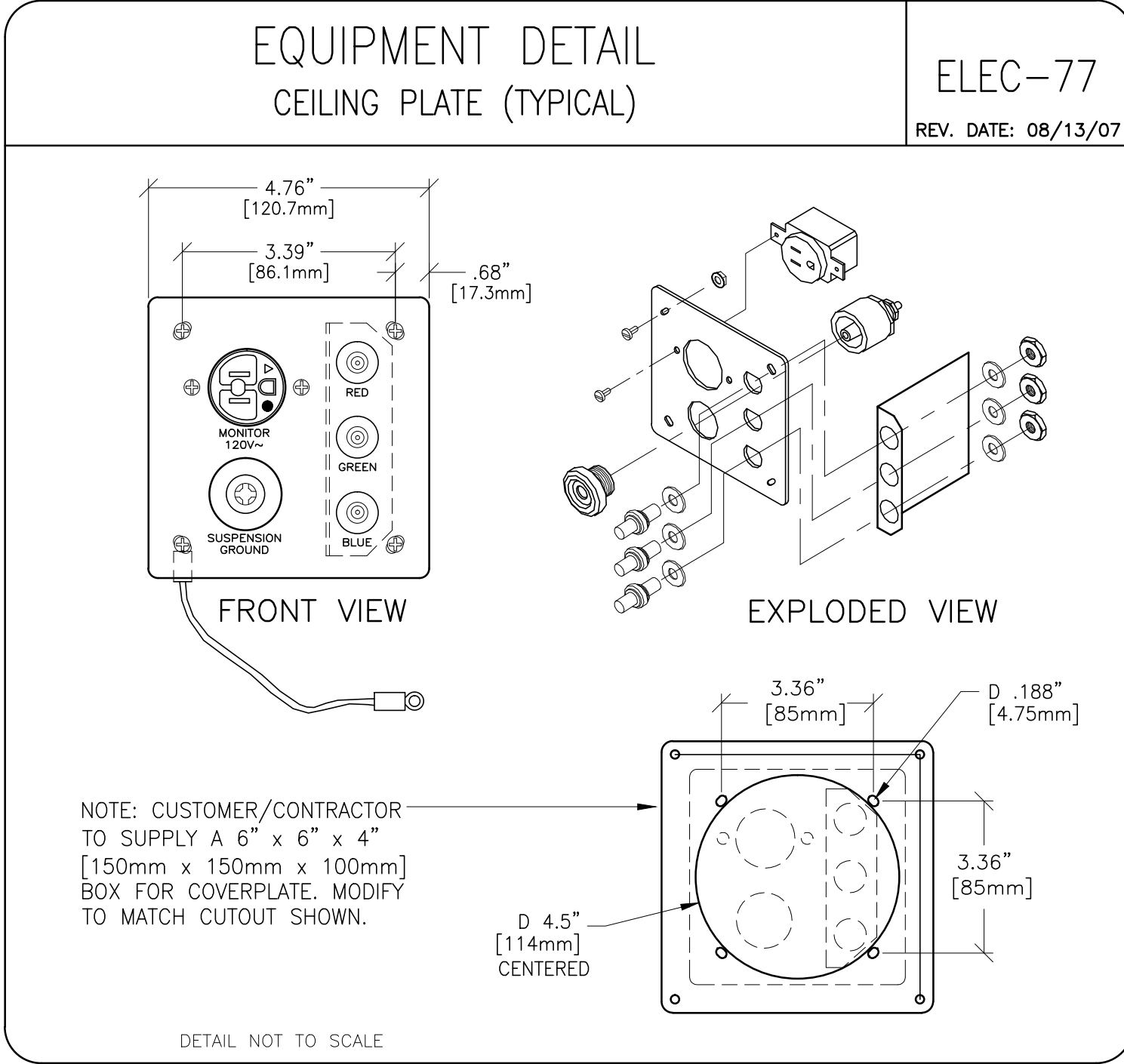
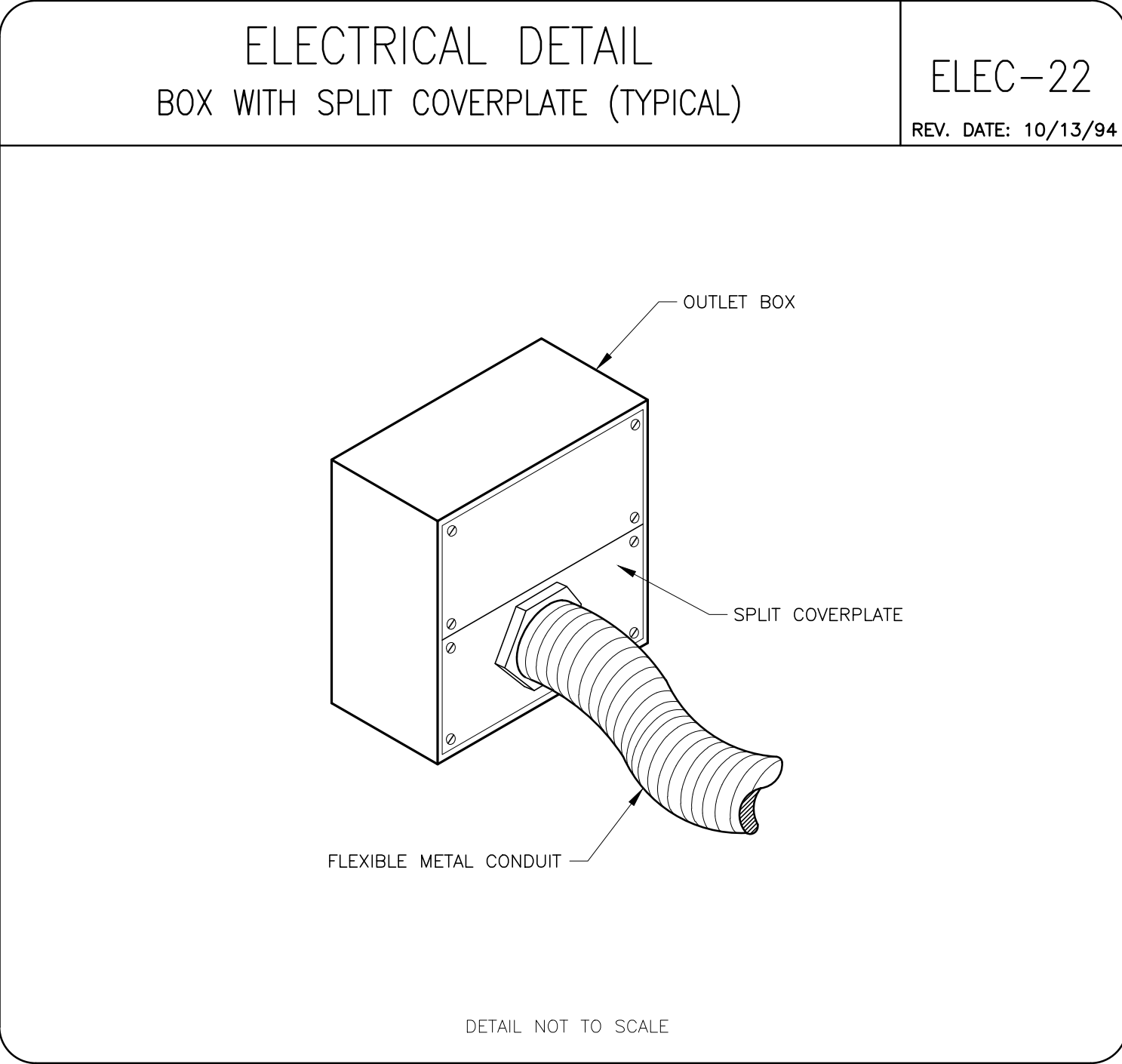
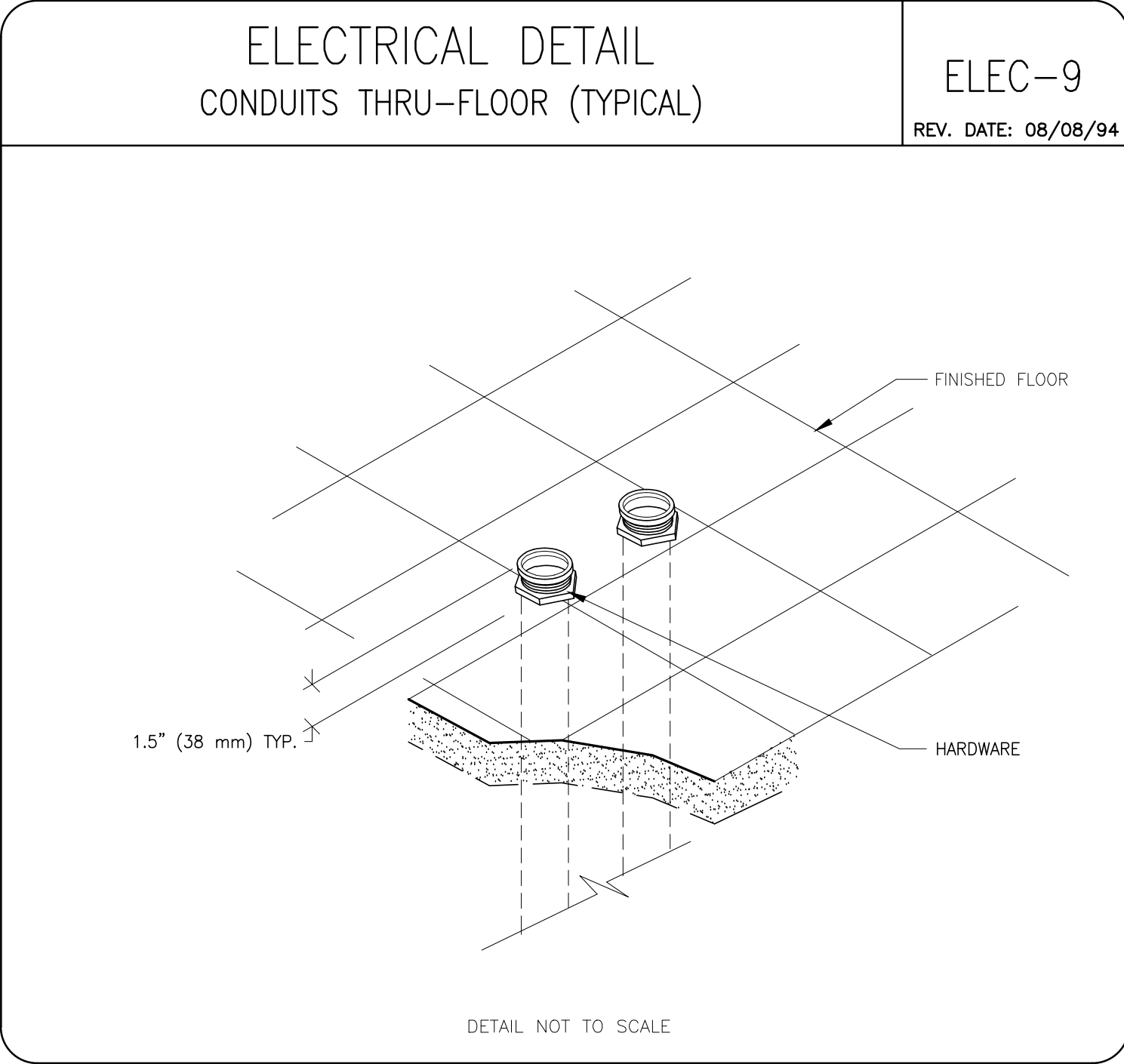
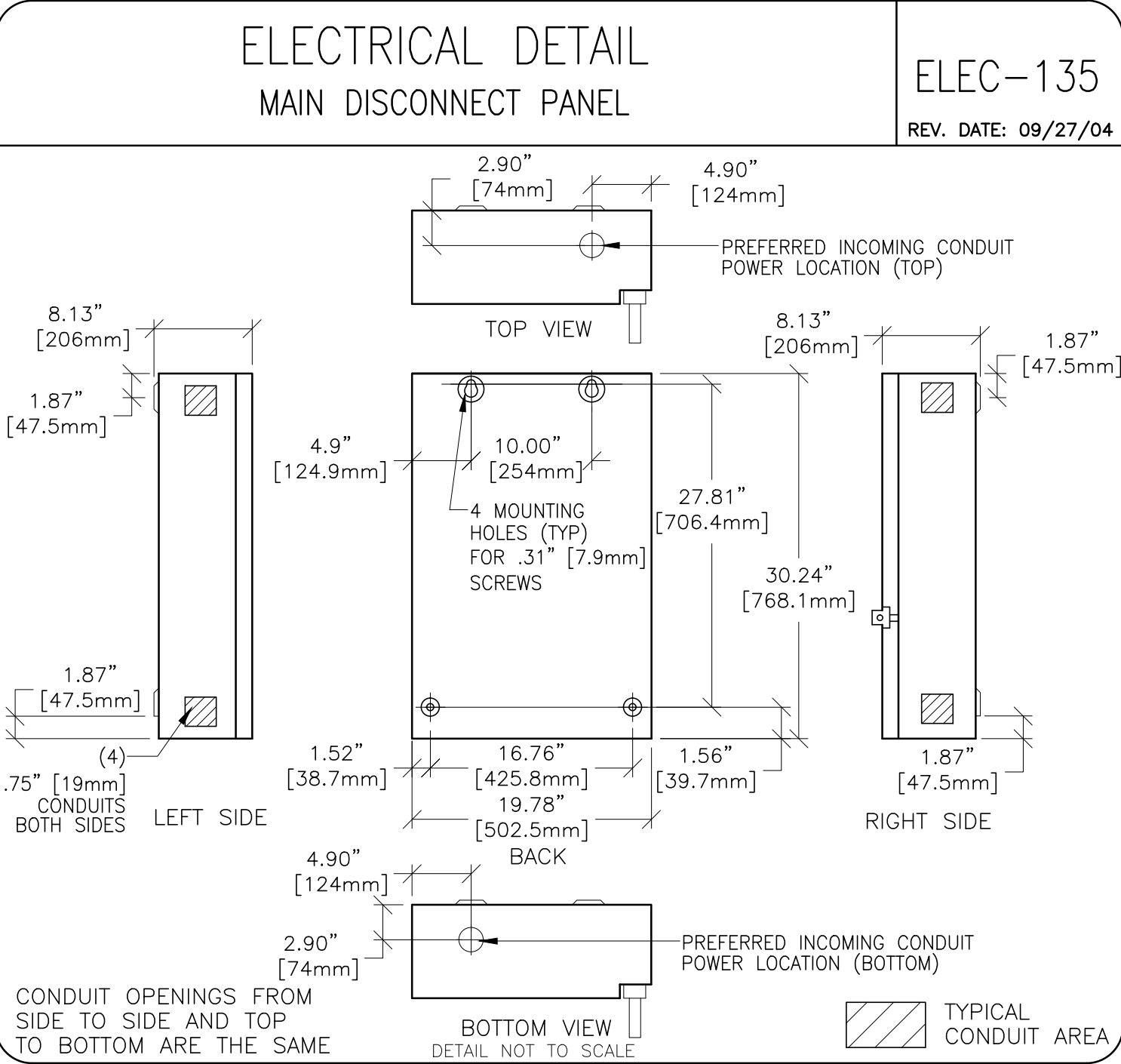
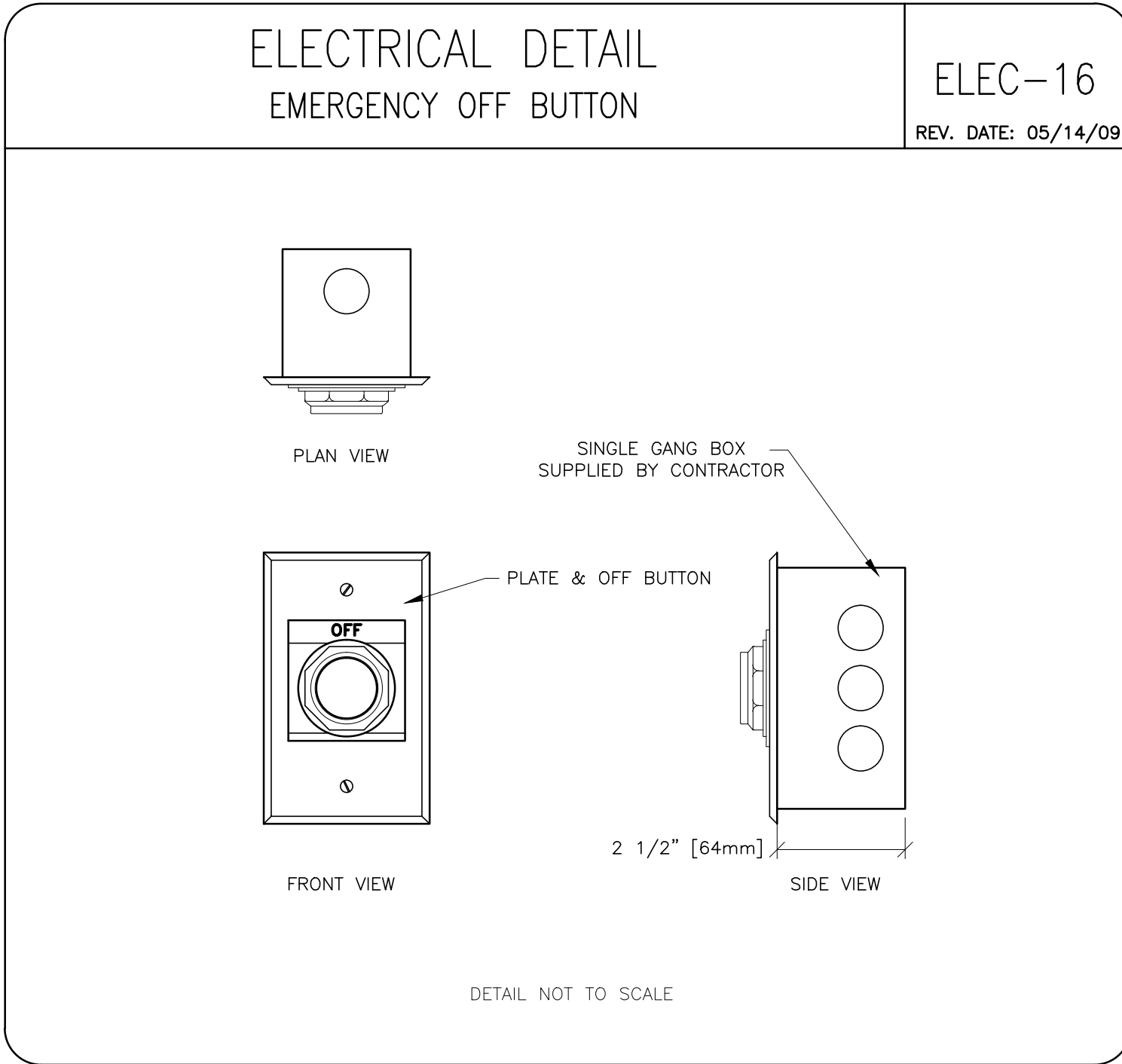
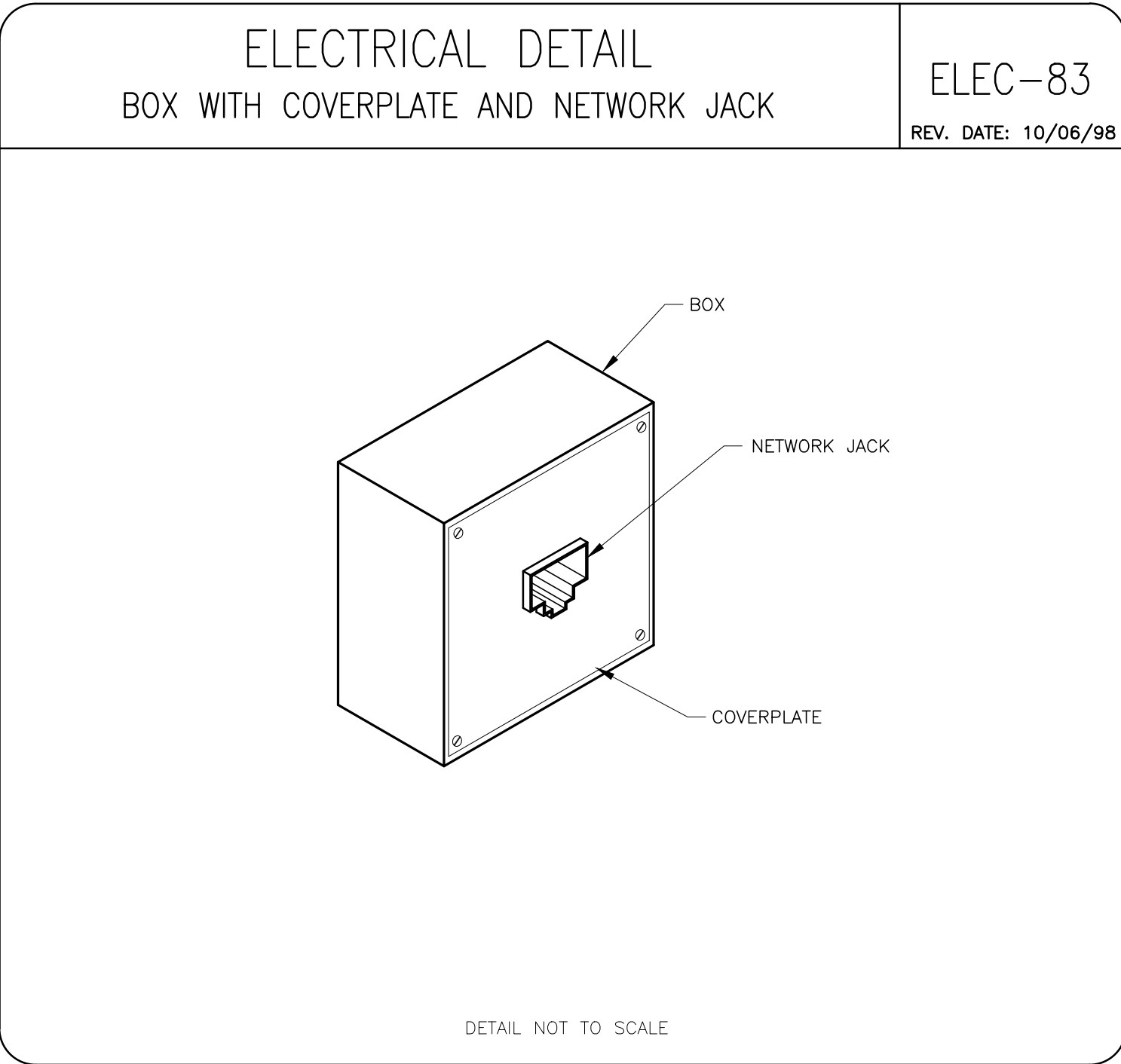
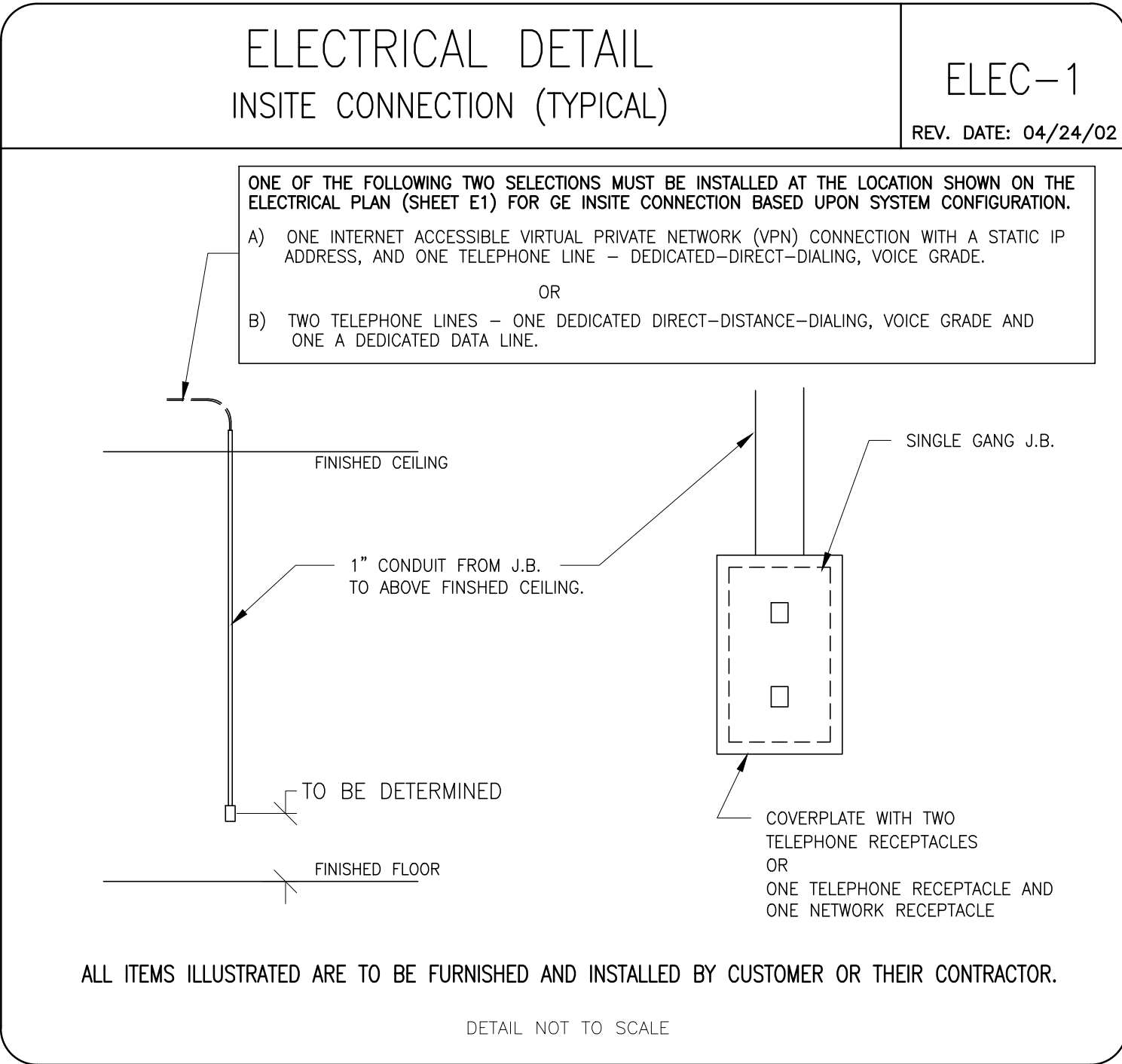
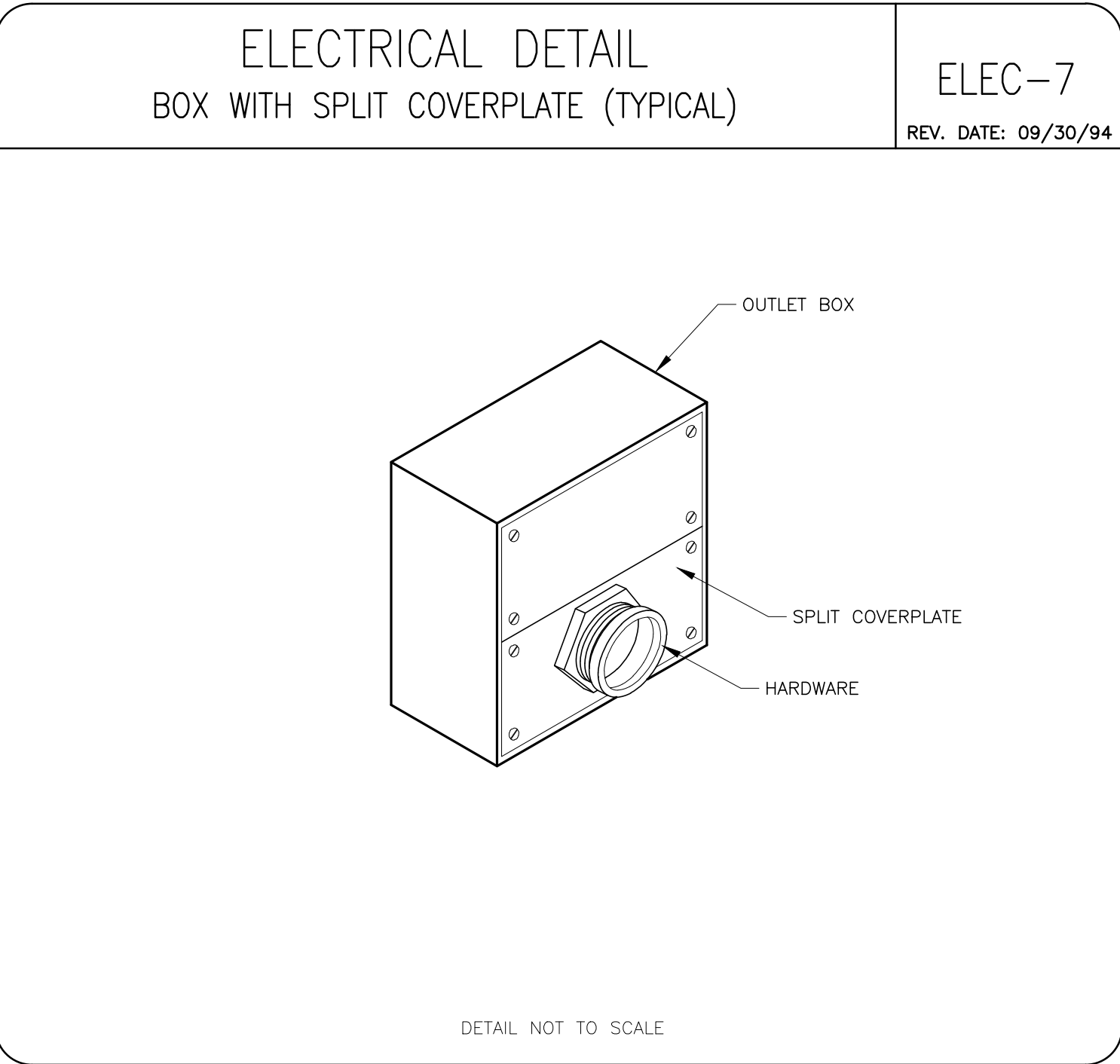
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SHEET

E2



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PIM R12

RQ - 153258

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ELECTRICAL DETAILS

SHEET TITLE: DISCOVERY C7750 HD

MODALITY TYPE: DISCOVERY C7750 HD

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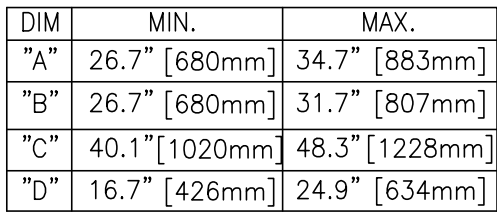
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SHEET E3

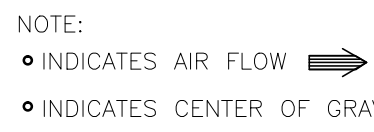
B78-58B
REV. DATE: 30.MAY.12



E45-02AE
REV. DATE: 02/20/04



B78-58D
REV. DATE: 01/28/09



B5031S

REV. DATE: 04/28/08



M33005
REV. DATE: 02/26/09



B8141



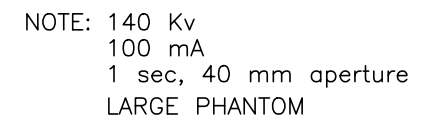
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REV. DATE: 01/28/09



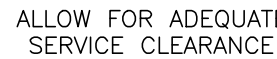
CONFIGURATION	DIMENSIONS				PERSONS NEEDED	ADDITIONAL PERSON HOURS	COMMENT
	WEIGHT lb [kg]	LENGTH in. [mm]	WIDTH in. [mm]	HEIGHT in. [mm]			
DOLLIES ON SIDE RAILS ON	4260 [1932]	114 [2900]	51 [1290]	79 [2000]	2	0	VAN DRIVERS DELIVER EQUIPMENT TO ROOM. GE REPS: SUPERVISE AND ASSIST. HEIGHT IS WITH 1 IN. [25.4mm] CLEARANCE FROM FLOOR.
DOLLIES ON SIDE RAILS REMOVED	4210 [1910]	114 [2900]	39.4 [1000]	79 [2000]	2	0.5	WITH RAILS REMOVED, THE VERY CAREFUL TO PREVENT DAMAGE TO COVERS.
REMOVE SIDE RAILS AND ONE DOLLY					2	2.5	THIS CONFIGURATION IS USED TO GET GENTRY INTO A 9 ft. [2.74m] ELEVATOR.
GENTRY SET ON AUX. DOLLIES					2	2.5	DO NOT PUSH ON GENTRY COVERS. PUSH ONLY ON FRAME MEMBERS. AUX. DOLLIES PROVIDED 2.3 IN. [58mm] CLEARANCE FROM FLOOR.
REMOVE COVERS – USE SHIPPING DOLLIES					4	1.5	USE EXTREME CARE IN REMOVING, HANDLING AND INSTALLING COVERS. SEE PROCEDURE IN DIRECTION 2243312–100, QX/I. GENERAL SYSTEM INSTALLATION SEE TWO PREVIOUS COMMENTS.
REMOVE COVERS – USE AUX. DOLLIES					4	3.5	
DOLLIES OFF, COVERS OFF	4110 [1864]	81 [2060]	34 [860]	73 [1850]	4	3.5	SEE LIFTING PROCEDURE DIRECTION 2243312–100, QX/I. GENERAL SYSTEM INSTALLATION.

B78-64E
REV. DATE: 05/12/05



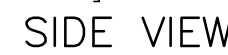
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REV. DATE: 27.Mar.15



B78-64B

REV. DATE: 21.Dec.11



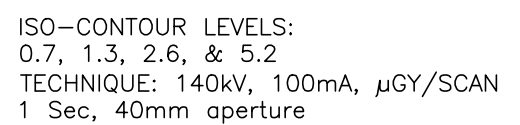
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REV. DATE: 01/28/0



B78-64E1

REV. DATE: 11/06/09



GE Healthcare



Healthcare Project Implementation – Design Center
Milwaukee, Wisconsin

SHEET TITLE: EQUIPMENT DETAILS

MODALITY TYPE: DISCOVERY CT750 HD

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VA MIDDLETON

MADISON, WISCONSIN

PROJECT TITLE:

PROJECT	REVISION
141020	01

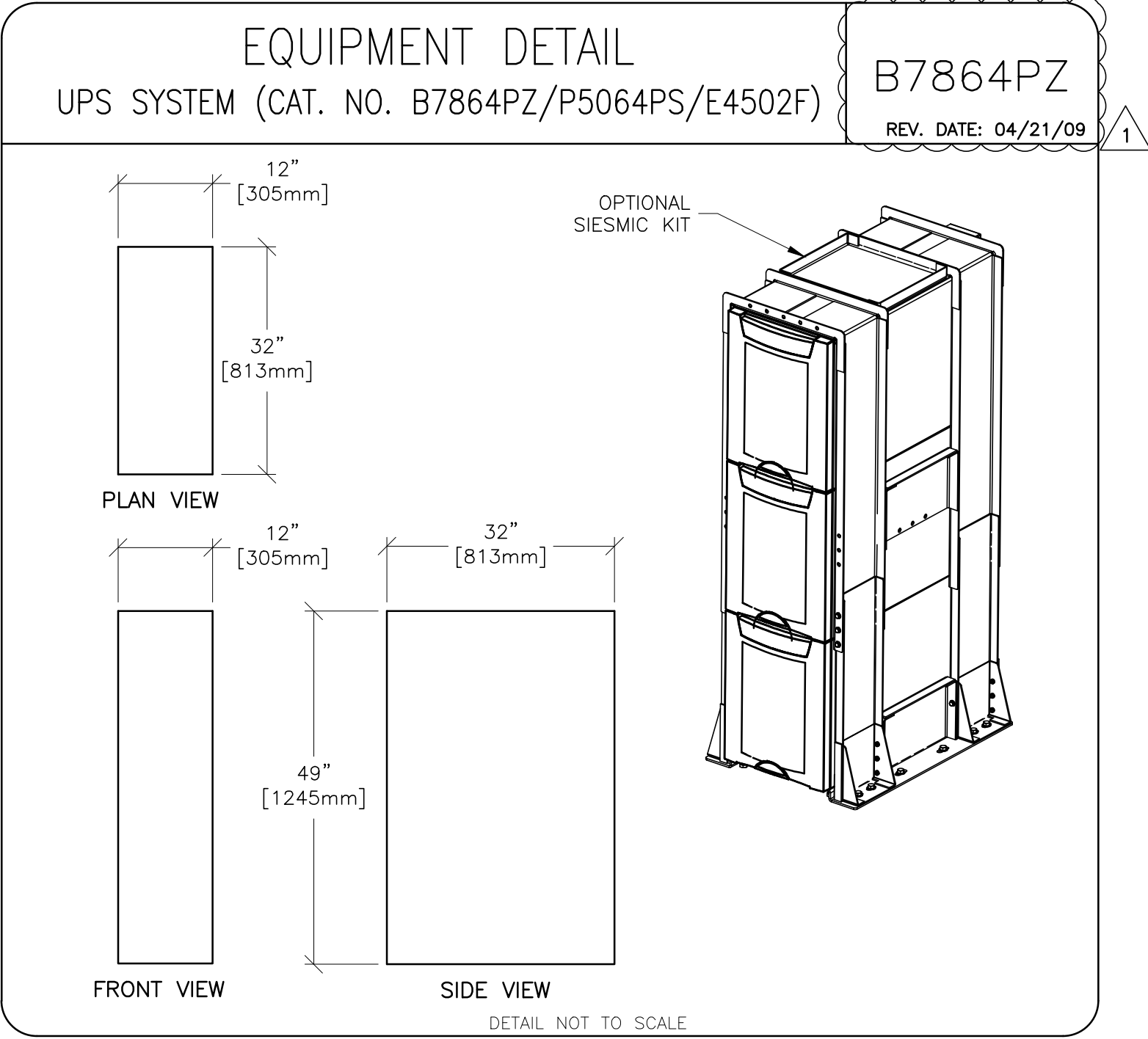
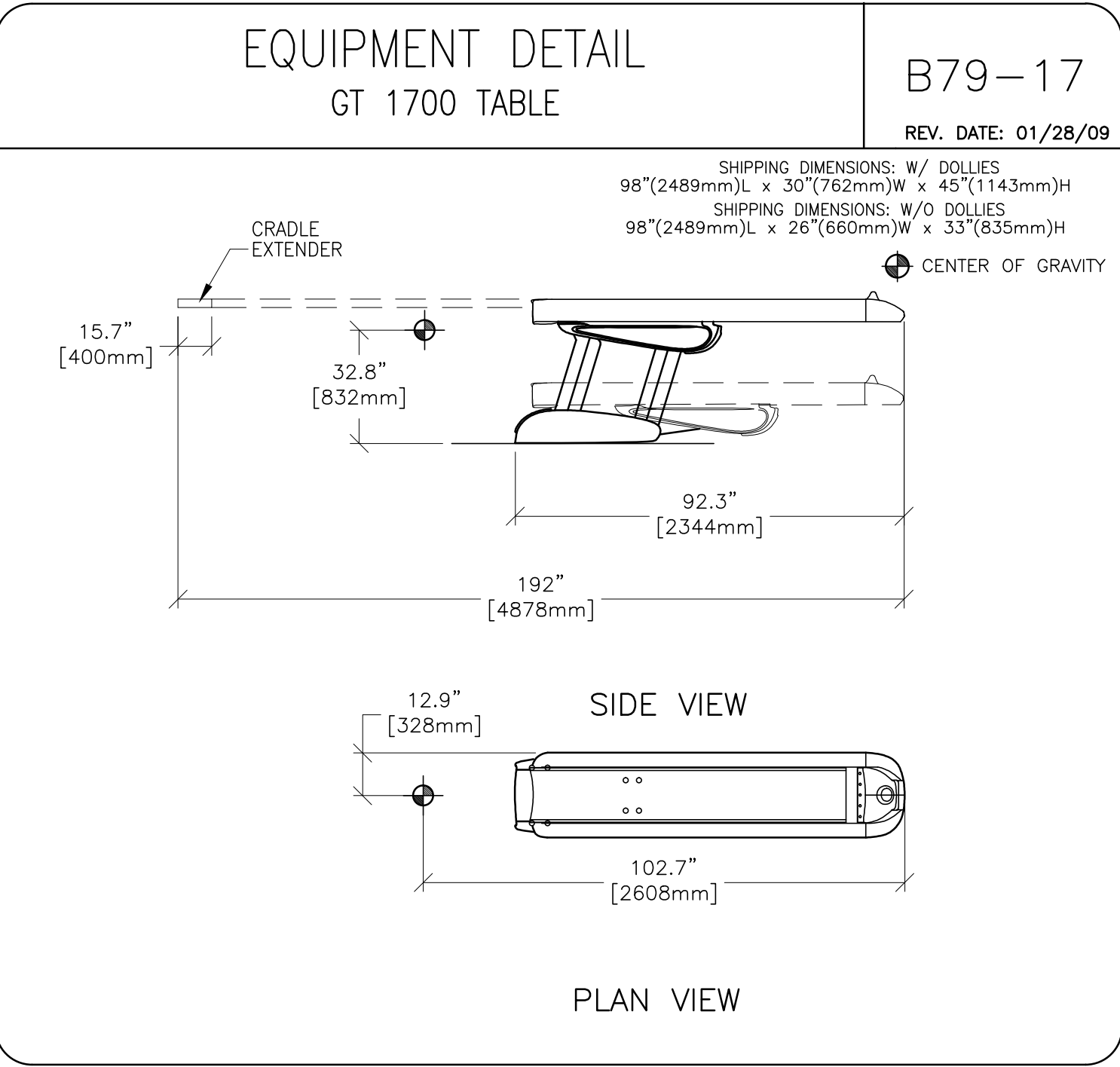
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SHEET

D 1



This drawing is based on Sketch No.: 14cc027a

PIM R12

RQ - 153258

PROJECT	REVISION
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SHEET

D2

SHEET TITLE: EQUIPMENT DETAILS

MODALITY TYPE: DISCOVERY CT750 HD

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PROJECT TITLE:

VA MIDDLETON

MADISON, WISCONSIN



GE Healthcare

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Milwaukee, Wisconsin



B7864PZ / P5064PS / E4502F

Three Phase, 14.4 kVA UPS & Interface Kit

Applications

The B7864PZ / P5064PS / E4502F optional Partial System Uninterruptible Power Supply (UPS) has been specifically designed to coordinate with GE Healthcare CT & PET/CT scanners.

The use of an optional Partial System UPS provides significant productivity benefits to the user.

In the event of a power outage, a partial system UPS provides continuous back-up power to the scanner host and control computers, thus assuring no loss of usable scan data. In addition, critical circuits in the gantry and table remain powered which facilitate the safe removal of the patient from the scanner. If power is restored within the battery hold-up time, the operator can continue scanner operations without the need to reboot the system. When longer power outages are anticipated, the UPS provides time for the operator to safely remove the patient and complete an orderly shutdown of the system software.

The UPS provides clean, reliable, constant voltage power to the scanner electronics. It protects the system's sensitive electronic components from damaging power anomalies such as high frequency noise transients and over voltage & under voltage conditions.

Utilizing a UPS improves user productivity, system reliability, reduces service costs, and increases system uptime.

Benefits

- Maintains system electronics and allows critical scanner operations to continue for >10 minutes (typical) after loss of power.
- Prevents loss of data.
- Provides clean constant voltage power.
- Protects electronics from under voltage, brownouts, line sags, over voltage or transients.
- System electronics unaffected by periodic emergency generator testing or automatic transfer switch operation.
- System electronics protected from utility power factor capacitor switching spikes and ring waves.
- System electronics protected from utility re-closer operations common during thunderstorms.
- Regulates output voltage to meet and exceed system electronics requirements.
- Allows time for an orderly system shutdown in the event of an extended power outage.
- Reduces maintenance costs.
- Increases system uptime.
- Suitable for engine generator applications.
- Suitable for mobile applications (with the addition of mobile kit B7864MK).

Features

- True double-conversion, on-line technology provides reliable operation & uninterrupted glitch free power.
- Automatic voltage and frequency selection eases startup, i.e., 50 or 60 Hz compatible.
- Integral Static Bypass switch means zero transfer time.
- Integral Manual Bypass switch facilitates continued scanner operation while UPS is being serviced.
- Single input connection utilized for both UPS input and static switch.

Powerware 9355-15-14GE UPS



- Sealed valve regulated lead acid batteries.
- Advanced Battery Management (ABM) software monitors / indicates battery health and improves battery service life.
- Graphical Display & Lighted Indicators for:
 - UPS power on and utility power on.
 - UPS on battery.
 - UPS in bypass mode.
 - Overload, over temperature, alarm and service conditions.
- Safety Standards: IEC 62040-1-1, UL1778, cUL, CAN/CSA C22.02 NO.107.3.
- EMC Compliance per IEC 62040-2.
- 1-year parts & labor warranty on UPS.
- Tested by GE Healthcare and approved for use with most CT & PET/CT scanners. (Refer to factory for verification of specific system compatibilities.)



B7864PZ / P5064PS / E4502F

Three Phase, 14.4 kVA UPS & Interface Kit

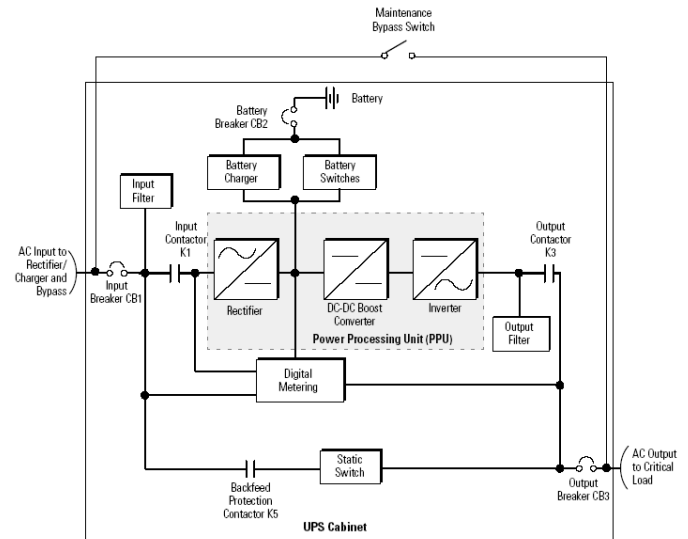
Specifications

Rating: 14.4 kVA
Input Voltage Range: Three-phase; 102-132V / ph
Input Frequency Range: 45-65 Hz
Input Power Factor: >95% typ.
Output Frequency: 50 or 60 Hz, auto-sensing
Voltage Regulation: <3% steady-state for all conditions of line and load
Voltage Distortion: <5% THD
Overload Capacity: 110% for 10 min.
125% for 1 min.
149% for 5 Sec.
Efficiency: >90% typ.
FL Heat Dissipation: 5122 BTU/Hr typ. @ 11.5 KVA
Battery backup time: >10 minutes typ.
Recharge Time: <3 hrs. to 80% capacity typ.

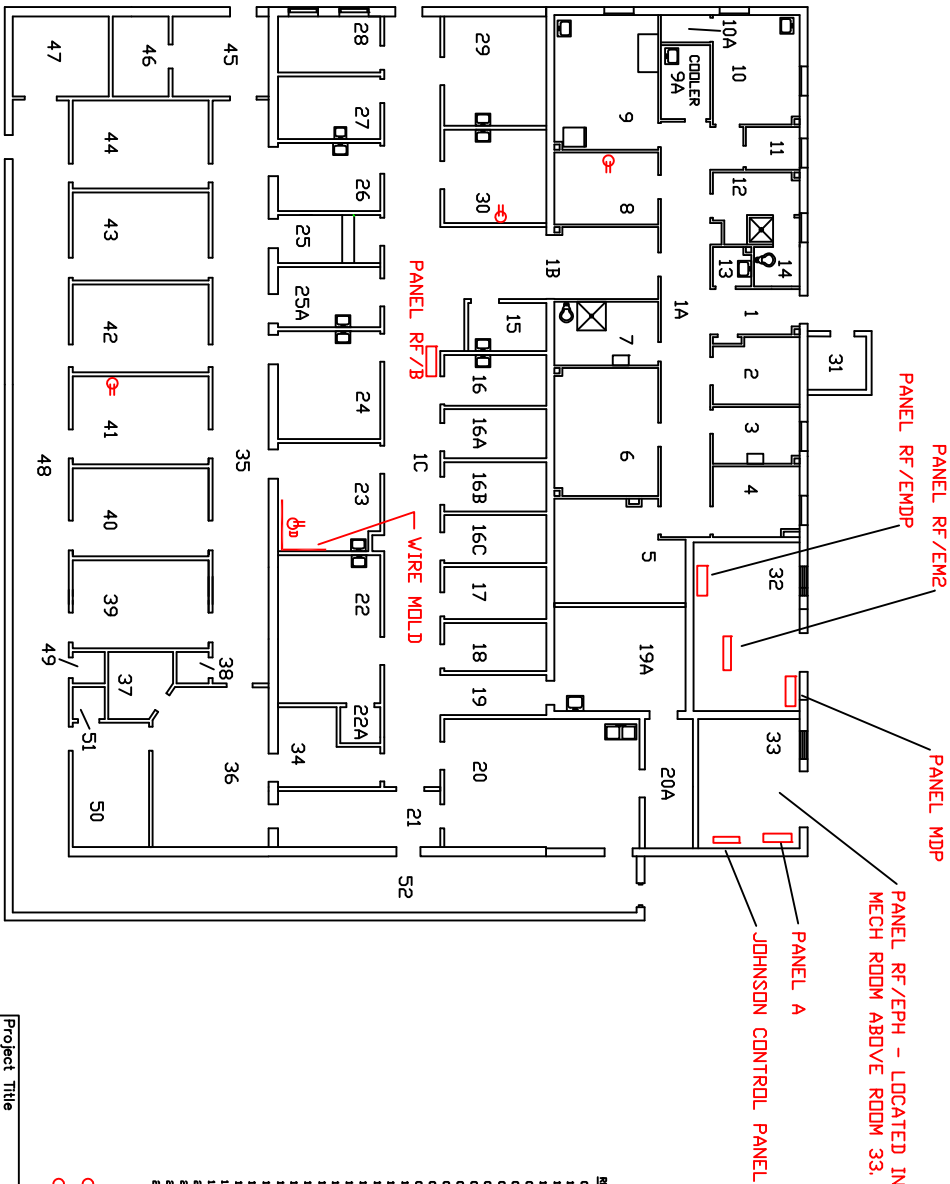
Operating Temperature: 10-40°C
Humidity: 20-80% RH
Non-condensing
Audible noise (Norm Mode): <60 dBA @ 1 meter

UPS Width: 12 inches (305 mm)
UPS Depth: 32 inches (813 mm)
UPS Height: 49 inches (1245 mm)
UPS Weight: 620 lbs (277 kg)

Note – Mobile applications require the addition of kit, B7864MK for secure mounting of UPS to floor.



BUILDING No. 12
SCALE 1" = 30'



ROOM	FUNCTION	SQ.FT.	ROOM	FUNCTION	SQ.FT.
01	ENTRY VAVY/CORRIDOR	62	22A	STORAGE, CONTROLLED SUBSTANCE	23
02	CORRIDOR	346	23	ANIMAL, HOLDING ROOM	169
03	CORRIDOR	263	24	ANIMAL, HOLDING ROOM	175
04	FIELD STORAGE	767	25A	ANIMAL, HOLDING ROOM	96
05	PROCEDURE ROOM	97	26	ANIMAL, HOLDING ROOM	118
06	ANIMAL, HOLDING ROOM	196	27	OFFICE, STAFF	89
07	TOILET, MALE	206	28	ANIMAL, HOLDING ROOM	174
08	ANIMAL, HOLDING ROOM	117	29	OFFICE, SUPERVISOR	149
09	PROCEDURE ROOM	208	30	STORAGE	49
10	PROCEDURE ROOM	147	31	MECHANICAL ROOM	279
11	WALK-IN COOLER	21	32	CLEAN STORAGE/CLEAN CORRIDOR	100
12	TOILET, FEMALE	67	33	CLEAN CORRIDOR	284
13	STORAGE, FLAMMABLES	23	34	CASE PREP/AUTOLAVE RIN	61
14	HOUSEKEEPING AID CLOSET	40	35	STORAGE, CASE	16
15	TOILET, FEMALE	97	36	HOUSEKEEPING AID CLOSET	187
16	ANIMAL, HOLDING ROOM	42	37	ANIMAL, HOLDING ROOM	187
17	ANIMAL, HOLDING ROOM	77	38	ANIMAL, HOLDING ROOM	187
18	ANIMAL, HOLDING ROOM	83	39	ANIMAL, HOLDING ROOM	187
19	ANIMAL, HOLDING ROOM	77	40	ANIMAL, HOLDING ROOM	187
20	ANIMAL, HOLDING ROOM	83	41	FIELD PREP ROOM	180
21	STORAGE, GENERAL	77	42	WALK-IN COOLER	120
22	STORAGE, GENERAL	86	43	STOLEN CORRIDOR	486
23	STORAGE, GENERAL	86	44	STOLEN CORRIDOR	148
24	STORAGE, GENERAL	97	45	CASE WASH ROOM	16
25	STORAGE, GENERAL	142	46	STORAGE, GENERAL	36
26	STORAGE, GENERAL	142	47	STOLEN CORRIDOR	362
27	STORAGE, GENERAL	142	48	STOLEN CORRIDOR	362
28	STORAGE, GENERAL	142	49	STOLEN CORRIDOR	362
29	STORAGE, GENERAL	142	50	STOLEN CORRIDOR	362
30	STORAGE, GENERAL	142	51	STOLEN CORRIDOR	362
31	STORAGE, GENERAL	142	52	STOLEN CORRIDOR	362

⊙ DUTLET
⊙ DUTLET - DEDICATED

Project Title		Date	
Bldg 12 Emergency Power		10-16-15	
Project No.		Project No.	
Building Number		Scale	
12		1" = 30'	
Drawn		DRAWING NO.	
BMC		E-12	
WILLIAM S. MIDDLETON MEMORIAL VETERANS HOSPITAL		Dwg. 1 of 1	
Veterans Affairs			