Drawing Index

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

SITE READINESS C1

EQUIPMENT LAYOUT A1
(Equipment locations, heat loads, component weights, environmental specs)

STRUCTURAL LAYOUT S1
(Structural support/mounting locations for floor/wall/ceiling, wall support elevations)

STRUCTURAL DETAILS S2
(Floor and Ceiling loading information)

ELECTRICAL LAYOUT E1
(Contractor supplied wiring, interconnect methods, junction point locations and descriptions)

ELECTRICAL SPECIFICATIONS E2
(Maximum wiring run lengths, interconnect diagram, system power specifications)

ELECTRICAL DETAILS E3

EQUIPMENT DETAILS D1 THRU D2

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 *

Signa Profile

Preinstallation Manual

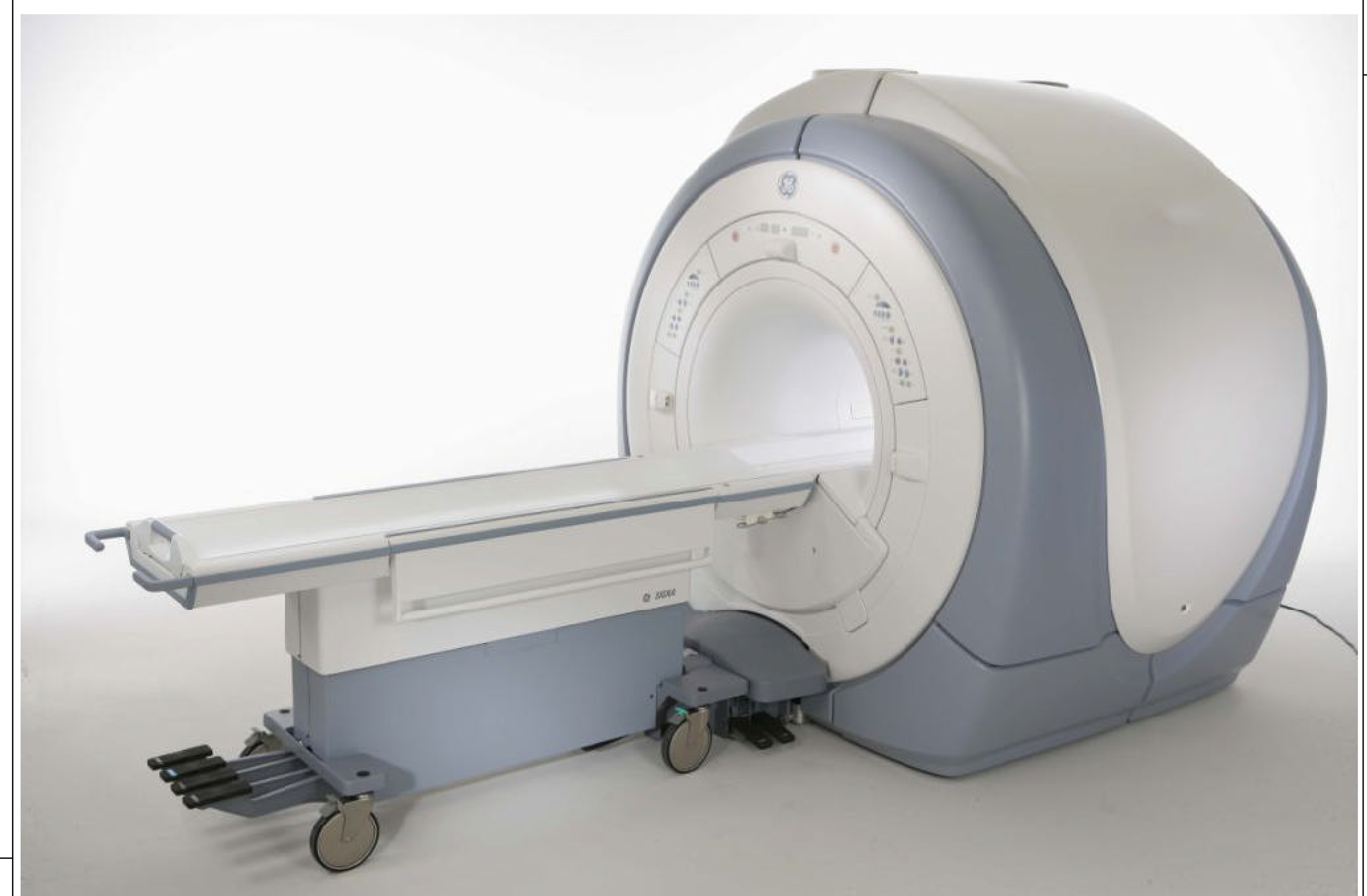
2178406

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



MRi 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)
- It is the customer's responsibility to contract a vibration consultant/engineer to implement site design modifications to meet the GE vibration specification. Refer to the system preinstallation manual for the vibration specification.

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.

For MR Magnet Delivery: Ensure cryogen vents, power for the cooling system and exhaust fan system are installed and operational (0.7T, 1.5T & 3T) and chilled water supply is available 24x7 that meets system cooling equipment requirements.

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

Issued Date: 7/9/07 Rev 11

GE Healthcare Technologies
Installation Services Design Center
Milwaukee, Wisconsin

SHEET TITLE: SITE READINESS

MODALITY TYPE: 0.2T SIGNA PROFILE

This drawing is based on Sketch No.: 8-66

PROJECT TITLE: 8-66f TYPICAL LAYOUTS

PROJECT	REVISION
8-66F	01

DATE: 10-18-07
DRAWN BY: SDB
CHECKED BY: PMM

REVISION HISTORY:

SHEET C1

cssh0507

GE EQUIPMENT LISTING

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

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

EQUIPMENT CROSS REFERENCE CHART

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

QUANTITY ORDERED — REFER TO SHEET "D"

ITEM NO.	QTY	ITEM DESCRIPTION (* = EXISTING/REINSTALL)	WEIGHT	HEAT OUTPUT (PER HOUR)	DETAIL NO.	STRC PLAN	ELEC PLAN	SEISMIC STATUS
1	1	UNINTERRUPTIBLE POWER SUPPLY	44 lbs	61 btu	M0510	.	UPS	S
2	1	SCAN ROOM UNIT	264 lbs	511 btu	V0705 V0805 V1905	.	SRU	S
3	2	SCAN ROOM UNIT COVERS				.		–
4	1	OPERATOR'S CONSOLE	555 lbs	3412 btu	M0508	.	OC	C
5	1	OPERATOR'S CHAIR				.		–
6	1	EXTERNAL HOST COMPUTER				.		–
7	1	0.2 TESLA MAGNET AND TABLE	22486 lbs	1023 btu	M0202 M0201 M0208 M0209 M0210	.	MAG	C
8	1	INTEGRATED POWER SYSTEM	992 lbs	12815 btu	M0213	.	IPS	C

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

ITEM NO.	QTY	ITEM DESCRIPTION	WEIGHT	HEAT OUTPUT	DETAIL NO.	STRC PLAN	ELEC PLAN	SEISMIC STATUS
50	1	MAIN DISCONNECT CONTROL	90 lbs	341 btu	R4503PP	S85	MDC	S
51	1	POWER LINE FILTER	143 lbs		R4503P1	S85	TVF	S
52	1	3 KVA TRANSFORMER	74 lbs			.	IT	–

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

EQUIPMENT LAYOUT

RECOMMENDED 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 is the Customer's responsibility for ensuring the site and final equipment placement complies with all applicable federal, state, and/or local requirements.

MRI SITE PLANNING REMINDERS

1. THE LAYOUT SHOULD BE ARRANGED SO THAT THE 5G LINE IS CONTAINED TO THE MAGNET ROOM. IF NOT POSSIBLE, A BARRIER IS RECOMMENDED TO PREVENT ENTRY TO THE 5G FIELD AREA.

2. THE SPACES AROUND, ABOVE, AND BELOW THE MAGNET MUST BE REVIEWED FOR EFFECTS OF THE 5G, 3G, 1G, AND .5G FIELDS. REFER TO THE PROXIMITY LIMIT CHART IN THE MR SITE PLANNING DIRECTION.

3. FOR MOVING METAL, THE RESTRICTION LINES TYPICALLY EXTEND OUTSIDE OF THE MRI SPACE. PLEASE CONFIRM THERE ARE NO MOVING METAL CONCERNS WITHIN THESE AREAS. AN EMI STUDY IS RECOMMENDED IF THE RESTRICTION LINES ARE VIOLATED.

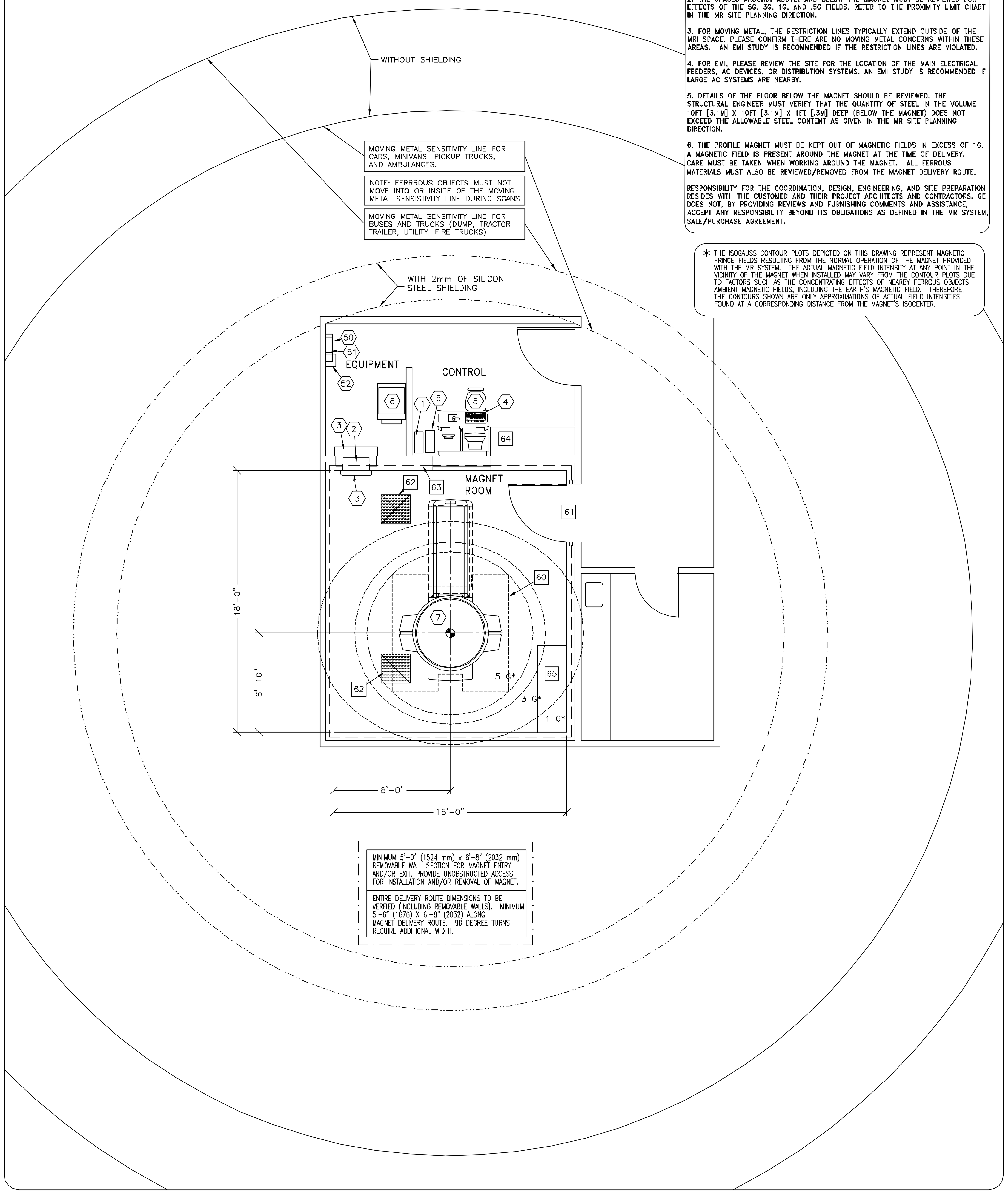
4. FOR EMI, PLEASE REVIEW THE SITE FOR THE LOCATION OF THE MAIN ELECTRICAL FEEDERS, AC DEVICES, OR DISTRIBUTION SYSTEMS. AN EMI STUDY IS RECOMMENDED IF LARGE AC SYSTEMS ARE NEARBY.

5. DETAILS OF THE FLOOR BELOW THE MAGNET SHOULD BE REVIEWED. THE STRUCTURAL ENGINEER MUST VERIFY THAT THE QUANTITY OF STEEL IN THE VOLUME 10FT [3.1M] X 10FT [3.1M] X 1FT [.3M] DEEP (BELOW THE MAGNET) DOES NOT EXCEED THE ALLOWABLE STEEL CONTENT AS GIVEN IN THE MR SITE PLANNING DIRECTION.

6. THE PROFILE MAGNET MUST BE KEPT OUT OF MAGNETIC FIELDS IN EXCESS OF 1G. A MAGNETIC FIELD IS PRESENT AROUND THE MAGNET AT THE TIME OF DELIVERY. CARE MUST BE TAKEN WHEN WORKING AROUND THE MAGNET. ALL FERROUS MATERIALS MUST ALSO BE REVIEWED/REMOVED FROM THE MAGNET DELIVERY ROUTE.

RESPONSIBILITY FOR THE COORDINATION, DESIGN, ENGINEERING, AND SITE PREPARATION RESIDES WITH THE CUSTOMER AND THEIR PROJECT ARCHITECTS AND CONTRACTORS. GE DOES NOT, BY PROVIDING REVIEWS AND FURNISHING COMMENTS AND ASSISTANCE, ACCEPT ANY RESPONSIBILITY BEYOND ITS OBLIGATIONS AS DEFINED IN THE MR SYSTEM. SALE/PURCHASE AGREEMENT.

* THE ISOGAUSS CONTOUR PLOTS DEPICTED ON THIS DRAWING REPRESENT MAGNETIC FRINGE FIELDS RESULTING FROM THE NORMAL OPERATION OF THE MAGNET PROVIDED WITH THE MR SYSTEM. THE ACTUAL MAGNETIC FIELD INTENSITY AT ANY POINT IN THE VICINITY OF THE MAGNET WHEN INSTALLED MAY VARY FROM THE CONTOUR PLOTS DUE TO FACTORS SUCH AS THE CONCENTRATING EFFECTS OF NEARBY FERROUS OBJECTS AMBIENT MAGNETIC FIELDS, INCLUDING THE EARTH'S MAGNETIC FIELD. THEREFORE, THE CONTOURS SHOWN ARE ONLY APPROXIMATIONS OF ACTUAL FIELD INTENSITIES FOUND AT A CORRESPONDING DISTANCE FROM THE MAGNET'S ISOCENTER.



ANCILLARY ITEMS

CUSTOMER/CONTRACTOR SUPPLIED AND INSTALLED ITEMS

ITEM NO.	ITEM DESCRIPTION (* INDICATES EXISTING)
60	STEEL FLOOR SHIM PLATE
61	MINIMUM DOOR OPENING FOR EQUIPMENT DELIVERY IS 43 IN. W x 82 IN. H [1092mm x 2083mm], CONTINGENT ON A 96 IN. [2438mm] CORRIDOR WIDTH
62	AIR SUPPLY AND RETURN DUCTS. SEE DETAIL M0210A ON DETAIL SHEETS FOR RECOMMENDED LOCATIONS.
63	RF SCREEN, INCLUSIVE OF WALLS, FLOOR, DOOR, ETC. GROUND IMPEDANCE GREATER THAN 1000 OHMS. ATTENUATION 100dB AT 10-100MHz PLANEWAVE.
64	COUNTERTOP WITH DRAWERS FOR MISCELLANEOUS ITEMS.
65	BASE CABINET (MR COILS MUST BE STORED 8 FT. – IN. [2438 MM] MIN. FROM MAGNET TO PREVENT POTENTIAL SIGNAL LOSS TO SYSTEM.)

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

SITE ENVIRONMENT SPECIFICATIONS

- MAGNET ROOM AMBIENT OPERATING TEMPERATURE: 72–79 DEGREES (F) [22–26 (C)], MAXIMUM ALLOWABLE TEMPERATURE CHANGE OF 4 DEGREES (F)/HOUR [2 (C)/HOUR], MAXIMUM ROOM TEMPERATURE GRADIENT 3 DEGREES (F). OTHER MR SYSTEM AREAS AMBIENT OPERATING TEMPERATURE: 60–86 DEGREES (F) [15–30 (C)], MAXIMUM ALLOWABLE TEMPERATURE CHANGE OF 5 DEGREES (F)/HOUR [3 (C)/HOUR], MAXIMUM ROOM TEMPERATURE GRADIENT 6 DEGREES (F).
- HUMIDITY: 30 TO 70 PERCENT NON-CONDENSING, MAXIMUM ALLOWABLE CHANGE OF 5 PERCENT/HOUR.
- ALTITUDE: 100 FT [30M] BELOW SEA LEVEL TO 9,842 FT. [3000M] ABOVE SEA LEVEL.
- THE ENVIRONMENT FOR THE ELECTRONICS CABINET MUST BE CONTROLLED SO THE ABOVE RESTRICTIONS ARE NOT EXCEEDED.
- AIR SUPPLY GRILLS MUST NOT BLOW DIRECTLY AT THE MAGNET.
- 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

- ALL MAGNETS ARE SENSITIVE TO A CHANGING MAGNETIC ENVIRONMENT. MAGNETIC SHIELDING MAY BE USED TO REDUCE THE FRINGE FIELDS OF THE MAGNET AND REDUCE THE EFFECTS OF MOVING MAGNETIC MASSES ON THE MAGNET. MAGNETIC MASSES MUST BE KEPT AT APPROPRIATE DISTANCES FROM THE MAGNET'S ISOCENTER AS DESCRIBED IN THE TABLE BELOW.
- THE FERROUS METAL OBJECTS LISTED BELOW MUST NOT MOVE INTO OR INSIDE OF THE MOVING METAL SENSITIVITY LINE DURING SCANS (DISTANCES ARE MEASURED FROM THE CENTER OF THE OBJECT TO THE MAGNET ISOCENTER).

TYPCIAL MOVING MAGNETIC MASS	WITHOUT SHIELDING	WITH 2MM SILICON STEEL SHIELDING
CARTS, GURNEYS, OBJECTS < 400 LBS [181 KG]	9.8FT [3 M]	OUTSIDE MAGNET ROOM
AC POWER LINES	16.4 FT [5 M]	13 FT [4 M]
FORKLIFTS, SMALL ELEVATOR, CARS, MINIVANS VANS, PICKUP TRUCKS, AMBULANCES (OBJECTS GREATER THAN 400 LBS [181 KG])	36 FT [11 M]	23 FT [7 M]
BUSES AND TRUCKS (DUMP, TRACTOR TRAILER, UTILITY, FIRE TRUCKS)	42.6 FT [13 M]	26.3 FT [8 M]
TRAINS	164 FT [50 M]	130 FT [40 M]
OTHER MRI'S	KEEP MAGNET OUT OF FIELDS > 1 GAUSS	

- ALL SITES SHOULD BE TESTED FOR EMI INTERFERENCE, ESPECIALLY WHEN THE SITES CANNOT CONFORM TO THE ABOVE TABLE. MAGNETIC INTERFERENCE MUST NOT EXCEED 2 MILLIGAUSS RMS (VERTICAL Z COMPONENT) OR 5 MILLIGAUSS (HORIZONTAL X & Y COMPONENTS) AT THE ISOCENTER OF THE MAGNET. VALUES OF 2 TO 4 MILLIGAUSS (VERTICAL) AND/OR 5 TO 10 MILLIGAUSS (HORIZONTAL) INDICATE THE NEED FOR MAGNETIC SHIELDING. VALUES IN EXCESS OF THESE NUMBERS REQUIRE OTHER CONSIDERATIONS INCLUDING MITIGATION OF THE EMI SOURCE OR RE-SITING OF THE MAGNET.

IF YOUR SITE CANNOT MEET THESE REQUIREMENTS REFER TO DIRECTION 2178406 FOR OTHER OPTIONS.

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

This drawing is based on Sketch No.: 8-66

GE Healthcare Technologies
Installation Services Design Center
Milwaukee, Wisconsin

SHEET TITLE: EQUIPMENT LAYOUT

MODALITY TYPE: 0.2T SIGNA PROFILE

PROJECT TITLE: 8-66f TYPICAL LAYOUTS

PROJECT	REVISION
8-66F	01

DATE: 10-18-07
DRAWN BY: SDB
CHECKED BY: PMM

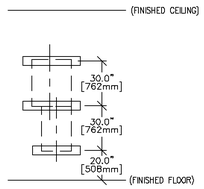
REVISION HISTORY:

SHEET A1

NFSH-1002

TYPICAL WALL SUPPORT ELEVATIONS

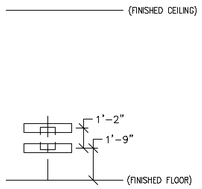
S85



SUPPORT FOR MAIN DISCONNECT CONTROL AND TRANSIENT VOLTAGE PROTECTOR

(NOT TO SCALE)

S101



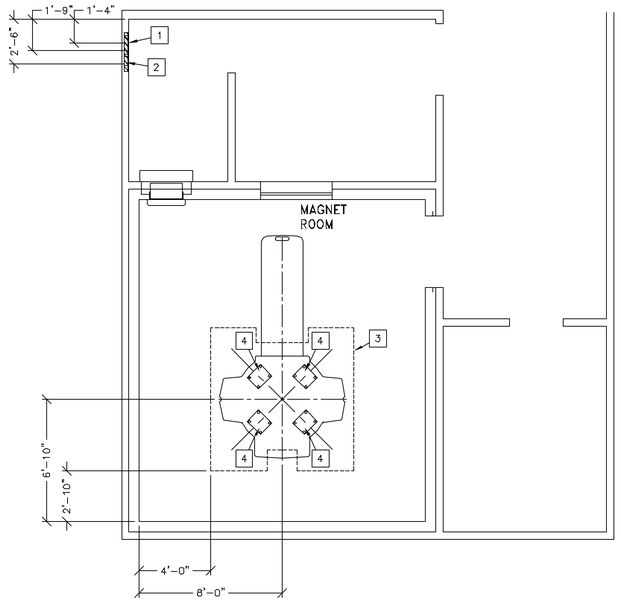
SUPPORT FOR TRANSFORMER

(NOT TO SCALE)

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

STRUCTURAL LAYOUT

RECOMMENDED CEILING HEIGHT = 8'-0"



STRUCTURAL SUPPORT METHODS

CUSTOMER/CONTRACTOR SUPPLIED AND INSTALLED ITEMS

ITEM NO. ☐	ITEM DESCRIPTION (* INDICATES EXISTING)
1	SUPPORT BACKING, LOCATE AS SHOWN, REFER TO ELEVATION SEE DETAIL S85, FOR MAIN DISCONNECT AND TRANSIENT VOLTAGE PROTECTOR.
2	SUPPORT BACKING, LOCATE AS SHOWN, REFER TO ELEVATION DETAIL S101, FOR TRANSFORMER.
3	FLOOR SHIM PLATE. SEE DETAIL MO2-12 ON SHEET S-2.
4	LEVELING AREA FOR MAGNET AND TABLE SEE DETAIL MO2-03 ON SHEET S2.

STRUCTURAL NOTES

- 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.
- DIMENSIONS ARE TO FINISHED SURFACES OF ROOM.
- CERTAIN MR PROCEDURES REQUIRE AN EXTREMELY STABLE ENVIRONMENT TO ACHIEVE HIGH RESOLUTION IMAGE QUALITY. VIBRATION IS KNOWN TO INTRODUCE FIELD INSTABILITIES INTO THE IMAGING SYSTEM. THE VIBRATION EFFECTS ON IMAGE QUALITY CAN BE MINIMIZED DURING THE INITAL SITE PLANNING OF THE MR SUITE BY MINIMIZING THE VIBRATION ENVIRONMENT. SEE DETAIL MO2-03 ON SHEET S2 FOR ADDITIONAL INFORMATION.
- STANDARD STEEL STUDS, NAILS, SCREWS, CONDUIT, PIPING, DRAINS AND OTHER HARDWARE ARE ACCEPTABLE IF PROPERLY SECURED. ANY LOOSE STEEL OBJECTS CAN BE VIOLENTLY ACCELERATED INTO THE BORE OF THE MAGNET. CAREFUL THOUGHT SHOULD BE GIVEN TO THE SELECTION OF LIGHT FIXTURES, CABINETS, WALL DECORATIONS, ETC, TO MINIMIZE THIS POTENTIAL HAZARD. FOR SAFETY, ALL REMOVABLE ITEMS WITHIN THE MAGNET ROOM SUCH AS FAUCET HANDLES, DRAIN COVERS, SWITCH BOX COVER PLATES, LIGHT FIXTURE COMPONENTS, MOUNTING SCREWS, ETC. MUST BE NON-MAGNETIC. IF YOU HAVE A SPECIFIC QUESTION ABOUT MATERIAL, BRING IT TO THE ATTENTION OF YOUR GE INSTALLATION SPECIALIST.
- FLOOR LEVELNESS IN THE MAGNET ROOM SHOULD NOT EXCEED 0.25 in. (6 mm) WHEN MEASURING BETWEEN DEPRESSIONS AND HIGH SPOTS OVER ANY 120 in. (3048 mm) DISTANCE. THIS FLOOR LEVELNESS REQUIREMENT IS IMPORTANT FOR ACCURATE TABLE DOCKING. FLOOR FLATNESS SHOULD NOT EXCEED 0.3125" [8mm] WITHIN THE THE MAGNET AND TABLE AREA.
- STEEL MASS IN THE FLOOR SHOULD NOT EXCEED 60 KG/SQ. M [12 LB/SQ. FT]. THIS INCLUDES REBAR AND OTHER HOMOGENEOUS STEEL SUCH AS DECKING. CONCENTRATED MASSES SUCH AS STEEL BEAMS MUST BE REVIEWED BY THE GE MR SITING AND SHIELDING GROUP. EXCESS STEEL MASS IN THE FLOOR OF THE MAGNET ROOM MAY PREVENT PROPER OPERATION OF THE PROFILE MAGNET SYSTEM.
- AN 8' X 8' [2.4m X 2.4m] STEEL SHIM PLATE IS REQUIRED FOR SHIMMING THE MAGNET UNLESS FLOOR SHIELDING IS INSTALLED.
- 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.

This drawing is based on Sketch No.: 8-66

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

GE Healthcare Technologies

Installation Services Design Center

Wisconsin

Milwaukee,

SHEET TITLE: STRUCTURAL LAYOUT

MODALITY TYPE: 0.2T SIGNA PROFILE

PROJECT TITLE: 8-66f TYPICAL LAYOUTS

PROJECT	REVISION
8-66F	01

DATE: 10-18-07

DRAWN BY: SDB

CHECKED BY: PMM

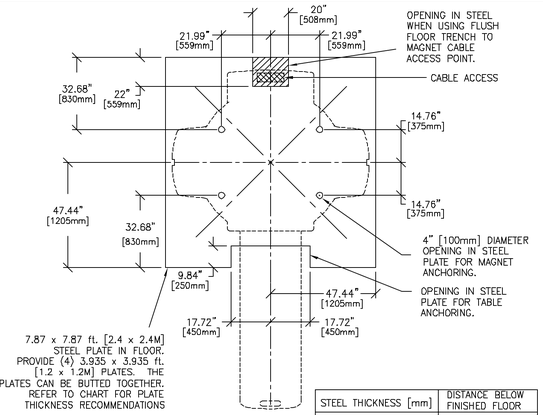
REVISION HISTORY:

SHEET S1

NFSH-1002

SUPPORT DETAIL
PROFILE FLOOR SHIM DETAIL
(CUSTOMER/CONTRACTOR/RF VENDOR TO SUPPLY AND INSTALL FLOOR SHIM PLATE)

M0212
REV. DATE: 10/11/99

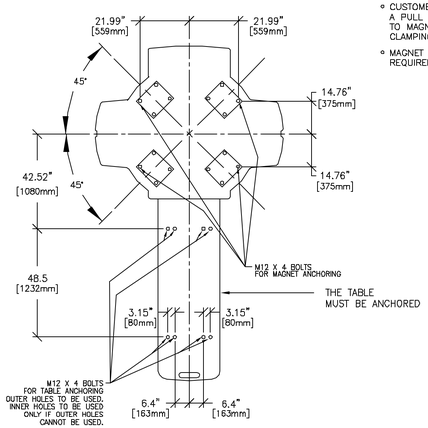


STEEL THICKNESS [mm]	DISTANCE BELOW FINISHED FLOOR
2.6 – 3.2	3 – 30 mm

DETAIL NOT TO SCALE

FLOOR MOUNTING DETAIL: SIGNA PROFILE

M0203
REV. DATE: 12/15/98



NOTE:

- ANCHOR HARDWARE REQUIREMENTS ARE THE CUSTOMER/CONTRACTOR RESPONSIBILITY.
- CUSTOMER/CONTRACTOR MUST PERFORM A PULL TEST ON EACH ANCHOR PRIOR TO MAGNET DELIVERY TO VERIFY THE CLAMPING/TENSION REQUIREMENTS.
- MAGNET ANCHORING IS OPTIONAL UNLESS REQUIRED BY LOCAL CODES.

VIBRATION

- THE MAGNET MAY BE SENSITIVE TO VIBRATIONS IN THE FREQUENCY RANGE OF 0.5 TO 80 HZ DEPENDING ON THE AMPLITUDE OF THE VIBRATION. IN THE AREA WHERE THE MR SYSTEM IS TO BE LOCATED, EVERY PRECAUTION MUST BE TAKEN TO ENSURE THAT THE VIBRATION IS MINIMIZED. IN PROPOSED MAGNET SITING AREAS, THE STRUCTURAL STABILITY AND BEHAVIORAL CHARACTERISTICS CAN BE ASSESSED WHEN THE ENVIRONMENT IS QUESTIONABLE. THE VIBRATION PROFILES CAN THEN BE USED TO ESTIMATE THE MAGNETIC FIELD STABILITY. IF NECESSARY, ENGINEERS WITH APPROPRIATE STRUCTURAL DYNAMIC SYSTEMS KNOWLEDGE CAN BE EMPLOYED BY THE CUSTOMER TO DESIGN THE SITE TO MEET GE'S REQUIREMENTS. GE CAN ASSIST IN INTERPRETING MARGINAL SITE TEST RESULTS AND PREDICTING THE IMPACT ON SYSTEM PERFORMANCE.
- TO MINIMIZE THE INTERFERENCE, THE MAGNET 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.
- VIBRATION MEASUREMENTS SHOULD BE MADE WHEN THE PROPOSED SITE IS LOCATED NEAR ANY OF THE SOURCES LISTED HERE. MEASUREMENTS SHOULD BE MADE USING A SPECTRUM ANALYZER CAPABLE OF PERFORMING THE TEST GUIDELINES DETAILED IN APPENDIX A, MR SITE VIBRATION TEST GUIDELINES FOUND IN THE SITE PLANNING DIRECTION.

MAGNET SITING REQUIREMENT

- IN CERTAIN CONDITIONS THE MAGNET MAY NEED TO BE BOLTED TO THE FLOOR (I.E. SEISMIC, VIBRATION ISSUES). VERIFY REQUIREMENTS WITH CUSTOMERS STRUCTURAL ENGINEER OF RECORD. VIBRATION MEASUREMENTS ON THE MAGNET SITE MUST MEET THE GUIDELINES BELOW.

TRANSIENT VIBRATION

- THE BEHAVIORAL CHARACTERISTICS MUST BE SUCH THAT ANY MEASURABLE TRANSIENT DISTURBANCE MUST BE MINIMIZED TO LESS THAN 0.01 m/s^2, ZERO TO PEAK.

STEADY STATE VIBRATION

- THE MAXIMUM STEADY STATE VIBRATION TRANSMITTED THROUGH THE FLOOR MUST NOT EXCEED 0.001 m/s^2 RMS MAXIMUM SINGLE FREQUENCY FROM 0.5 TO 80 Hz ABOVE AMBIENT BASELINE. IN ORDER TO ENSURE THAT ANY DISCRETE SIGNAL REPRESENTS A REAL MECHANICAL VIBRATION SOURCE, THE SIGNAL MUST HAVE A BANDWIDTH THAT TYPIFIES DYNAMIC SYSTEM RESPONSE.

ATTACHMENT OF THE MAGNET TO THE FLOOR

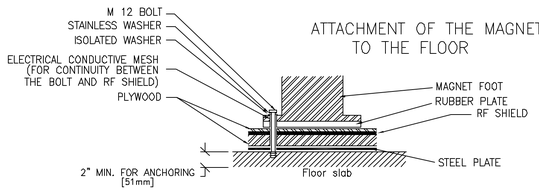
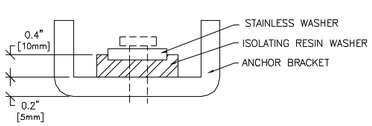
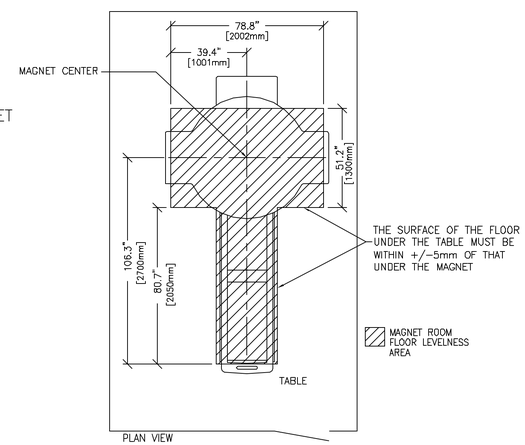


TABLE ANCHOR ATTACHMENT





FLOOR LEVELNESS

DETAIL NOT TO SCALE

GE Healthcare Technologies
Installation Services Design Center
Wisconsin
Milwaukee,

SHEET TITLE: STRUCTURAL DETAILS
MODALITY TYPE: 0.2T SIGNA PROFILE

This drawing is based on Sketch No.: 8-66

PROJECT TITLE: 8-66f TYPICAL LAYOUTS

PROJECT	REVISION
8-66F	01

DATE: 10-18-07
DRAWN BY: SDB
CHECKED BY: PMM

REVISION HISTORY:

SHEET
S2

SCALE: 1/4" = 1'–0"

ELECTRICAL PLAN

RECOMMENDED CEILING HEIGHT = 8'–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.

- DUPLEX HOSPITAL GRADE, DEDICATED OUTLET 120–V, SINGLE PHASE OUTLET ROUTED THROUGH RF FILTER
- 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)

FEEDER TABLE – SIGNA PROFILE III

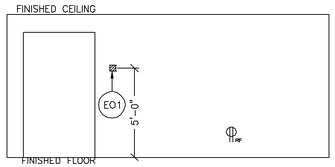
- CALCULATIONS BASED UPON NOMINAL VOLTAGE, WIRE SIZE IN AWG.
- RECOMMENDED FEEDER SIZES FROM DISTISTRIBUTION TRANSFORMER TO MAIN DISCONNECT.
- THE GROUNDING CONDUCTOR WILL BE THE SAME SIZE AS THE FEEDER WIRE AND SHALL BE COPPER AND WILL RUN IN THE SAME CONDUIT AS THE FEEDERS FROM EQUIPMENT BACK TO THE ROOM POWER SOURCE GROUNDING POINT.
- IF THE GENERAL ELECTRIC EQUIPMENT IS BEING FED BY A DELTA SECONDARY, IT IS RECOMMENDED THAT THE B PHASE ON THE SECONDARY BE CONNECTED TO GROUND TO PREVENT DAMAGE TO THE SYSTEM.
- NEUTRAL MUST BE TERMINATED PRIOR TO OR INSIDE THE MAIN DISCONNECT PANEL AND NOT BROUGHT INTO THE INTEGRATED POWER SYSTEM CABINET.
- FOR A FULL SYSTEM UPS REFER TO ELECTRICAL DETAILS FOR UPS FEEDER WIRES.

RUN LENGTH IN FEET	POWER SUPPLY VOLTAGE					
	190–210 200	198–218 208	361–399 380	380–420 400	394–436 415	456–504 480
	SIZE OF FEEDERS AND GROUND WIRES (AWG)					
50	6	6	10	10	10	10
100	6	6	10	10	10	10
150	6	6	10	10	10	10
200	4	4	10	10	10	10
250	4	4	10	10	10	10
300	3	3	8	8	10	10
350	2	3	8	8	8	10
400	2	2	8	8	8	10

REV. DATE 02/25/06

JUNCTION POINT NOTES

- ALL JUNCTION BOXES, CONDUIT, DUCT, DUCT DIVIDERS, SWITCHES, CIRCUIT BREAKERS, ETC., ARE TO BE SUPPLIED AND INSTALLED BY CUSTOMERS ELECTRICAL CONTRACTOR.
- CONDUIT AND DUCT RUNS SHALL HAVE SWEEP RADIUS BENDS
- CONDUITS AND DUCT ABOVE CEILING OR BELOW FINISHED FLOOR MUST BE INSTALLED AS NEAR TO CEILING OR FLOOR AS POSSIBLE TO REDUCE RUN LENGTH.
- CEILING MOUNTED JUNCTION BOXES ILLUSTRATED ON THIS PLAN MUST BE INSTALLED FLUSH WITH FINISHED CEILING.
- ALL DUCTWORK MUST MEET THE FOLLOWING REQUIREMENTS:
  1. DUCTWORK SHALL BE METAL WITH DIVIDERS AND HAVE REMOVABLE, ACCESSIBLE COVERS.
  2. DUCTWORK SHALL BE CERTIFIED/RATED FOR ELECTRICAL POWER PURPOSES.
  3. DUCTWORK SHALL BE ELECTRICALLY AND MECHANICALLY BONDED TOGETHER IN AN APPROVED MANNER.
  4. PVC AS A SUBSTITUTE MUST BE USED IN ACCORDANCE WITH ALL LOCAL AND NATIONAL CODES.
- ALL OPENINGS IN ACCESS FLOORING ARE TO BE CUT OUT AND FINISHED OFF WITH GROMMET MATERIAL BY THE CUSTOMERS CONTRACTOR.
- GENERAL CONTRACTOR TO INSERT PULL CORDS FOR ALL CABLE RUN CONDUITS BETWEEN THE EQUIPMENT ROOM AND THE OPERATORS CONTROL ROOM.
- 10 FOOT PIGTAILS AT ALL JUNCTION POINTS. NO ALUMINUM OR SOLID WIRES.
- ALL WIRING MUST BE THHN OR TFFN STRANDED COPPER THERMOPLASTIC 600 VOLT OR EQUIVALENT UNLESS OTHERWISE STATED.
- GROUNDING IS CRITICAL TO EQUIPMENT FUNCTION AND PATIENT SAFETY. SITE MUST CONFORM TO WIRING SPECIFICATIONS SHOWN ON THIS PLAN.



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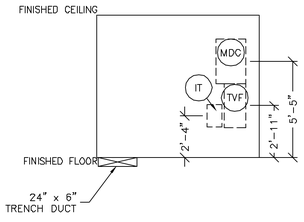

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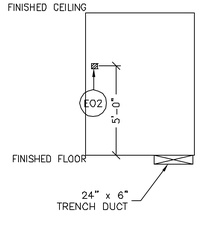

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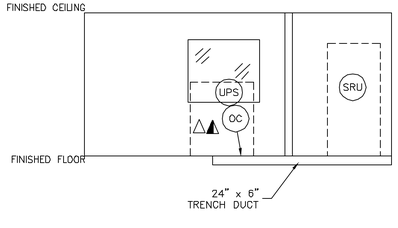

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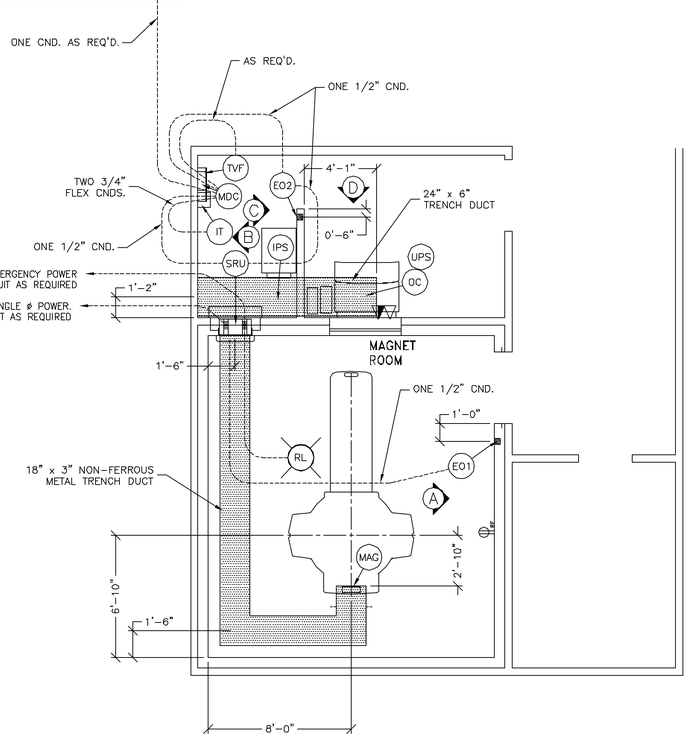


JUNCTION POINT DESCRIPTIONS

POINT	DESCRIPTION	QTY.	HARDWARE	DETAIL NO., SHT. E3
			THE FOLLOWING MATERIALS ARE TO BE SUPPLIED AND INSTALLED BY THE CUSTOMER'S ELECTRICAL CONTRACTOR	
EO1	EMERGENCY OFF BUTTON	1	SINGLE GANG BOX	ELEC–16
EO2	EMERGENCY OFF BUTTON	1	SINGLE GANG BOX	ELEC–16
IPS	INTEGRATED POWER SYSTEM	1 1 1	2 1/2 IN. DIA. CHASE NIPPLE 1 1/2 IN. LONG 1 1/2 IN. DIA NIPPLE, 1 1/2 IN. LONG	ELEC–25
IT	TRANSFORMER	2 4	6 FT. LENGTH OF 3/4 IN. FLEXIBLE METAL CONDUIT SUITABLE CONNECTORS	
MAG	MAGNET	1	78 IN. GROMMET MATERIAL	ELEC–3
MDC	MAIN DISCONNECT	2 1	SUITABLE BUSHING & LOCKNUT CHASE NIPPLE AS REQUIRED	ELEC–74 ELEC–81
OC	OPERATOR'S CONSOLE	1 1	3 IN. DIA. CHASE NIPPLE 3 1/2 IN. DIA. CHASE NIPPLE	ELEC–3
RL	MAGNET ROOM LIGHTS	1 1 1	BOX AS REQUIRED LOCKNUT INCANDESCENT LIGHT FIXTURE	
SRU	SCAN ROOM UNIT	1	100 IN. OF GROMMET MATERIAL FOR A 18 X 6 IN. OPENING IN DUCT COVER	ELEC–3 ELEC–82
TVF	POWER LINE FILTER	2	SUITABLE BUSHING & LOCKNUT	ELEC–74
UPS	UPS CABINET	1	EXTERNALLY CONNECTED	

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
480–V > MDC	3–BLACK, 1–WHITE, 1–GREEN – REFER TO FEEDER TABLE
1 PHASE > SRU	1–BLACK, 1–WHITE, 1–GREEN – <SIZE AS REQUIRED>
EMERGENCY PWR > SRU	1–BLACK, 1–WHITE, 1–GREEN – <SIZE AS REQUIRED>
SRU > RL	1–BLACK, 1–WHITE, 1–GREEN – <SIZE AS REQUIRED>
MDC > TVF	3–BLACK, 1–WHITE, 1–GREEN – REFER TO FEEDER TABLE
TVF > IPS	3–BLACK, 1 GREEN – REFER TO FEEDER TABLE
MDC > EO2	1–BLACK, 1–RED, 1–GREEN – <SIZE AS REQUIRED>
MDC > SRU	1–BLACK, 1–RED, 1–GREEN – <SIZE AS REQUIRED>
SRU > EO1	1–BLACK, 1–RED, 1–GREEN – <SIZE AS REQUIRED>
SRU > EO2	1–BLACK, 1–RED, 1–GREEN – <SIZE AS REQUIRED>
IT > MDC	1–NO. 10 BLACK, 1–NO. 10 WHITE, 1–NO. 10 GREEN
MDC > IT	2–NO. 10 BLACK, 1–NO. 10 GREEN

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

This drawing is based on Sketch No.: 8–66

GE Healthcare Technologies
Installation Services Design Center
Milwaukee, Wisconsin

SHEET TITLE: ELECTRICAL LAYOUT

MODALITY TYPE: 0.2T SIGNA PROFILE

PROJECT TITLE: 8–66f TYPICAL LAYOUTS

PROJECT	REVISION
8–66F	01

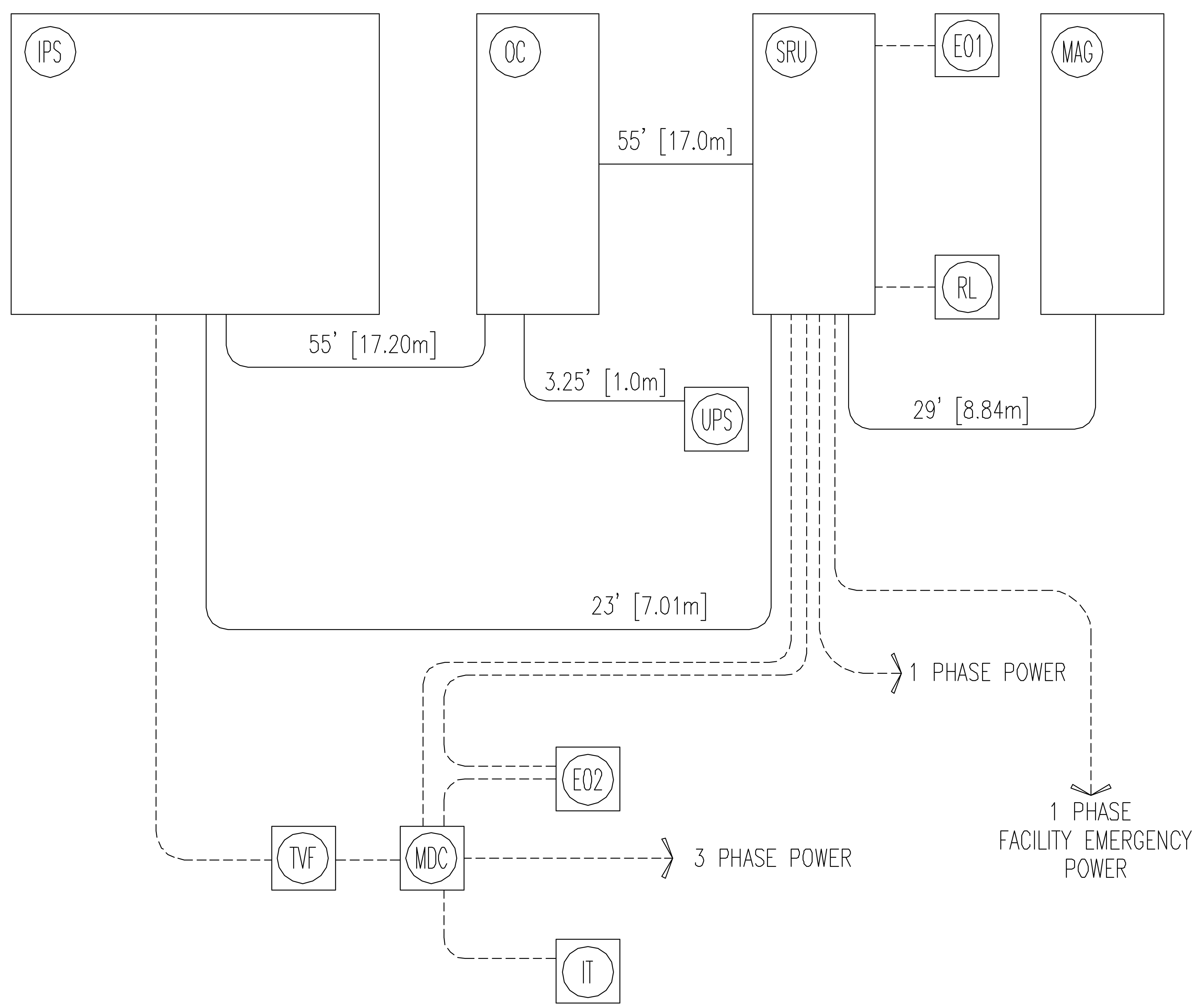
DATE: 10–18–07
DRAWN BY: SDB
CHECKED BY: PMM

REVISION HISTORY:

SHEET E1

NFSH–1002

INTERCONNECT DIAGRAM



POWER SPECIFICATIONS

SIGNA PROFILE III

(REV. DATE 08/23/01)

VOLTAGE

PRIMARY SOURCE IS REQUIRED FOR ALL INSTALLATIONS. RANGE OF LINE VOLTAGES: NOMINAL LINE VOLTAGE OF 200 TO 480, 3 PHASE, 50 OR 60 Hz.

RECOMMENDED POWER SUPPLY: DELTA OR WYE WITH NO NEUTRAL CONNECTION TO THE SYSTEM.

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	
**200	190–210	29	14	50–A
**208	198–218	28	14	50–A
380	361–399	15	8	25–A
400	380–420	14	7	25–A
415	394–436	14	7	25–A
480	456–504	12	6	25–A

MINIMUM OVERCURRENT PROTECTION FOR IPS RATING OF 10 KVA. (CALCULATIONS BASED UPON NOMINAL VOLTAGE)

** A STEP UP TRANSFORMER IS REQUIRED FOR THESE VOLTAGES TO COMPLY WITH IEC REGULATIONS.

PHASE-BALANCE.

PHASE-TO-PHASE VOLTAGES MUST BE WITHIN 2 PERCENT OF THE LOWEST PHASE-TO-PHASE VOLTAGE. MAXIMUM ALLOWABLE TRANSIENT VOLTAGE EXCURSIONS ARE 1.8 PERCENT OF RATED LINE VOLTAGE AT A MAXIMUM DURATION OF 75 MICROSECONDS 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

MAXIMUM POWER DEMAND = 10 KVA. CONTINUOUS = 3 KVA

TABLE B MAXIMUM MOMENTARY POWER DEMAND.

DEMAND	PROFILE
kVa *	10
POWER FACTOR AT	0.9

* DEMAND INCLUDES POWER FOR ENTIRE 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 14 KVA. GE DOES NOT RECOMMEND USING A REGULATION DEVICE.

ELECTRICAL NOTES

NOTE 1: ALL WIRES SPECIFIED SHALL BE STRANDED, FLEXIBLE, THERMO-PLASTIC, COLOR CODED, COPPER ONLY, CUT 10 FOOT LONG AT OUTLET BOXES, DUCT TERMINATION POINTS OR STUBBED CONDUIT ENDS, UNLESS OTHERWISE SPECIFIED. ALL CONDUCTORS, POWER, SIGNAL AND GROUND, MUST BE RUN IN CONDUIT OR DUCT SYSTEM. ELECTRICAL CONTRACTOR SHALL RING OUT AND TAG ALL WIRES AT BOTH ENDS. WIRE RUNS MUST BE CONTINUOUS COPPER AND FREE FROM SPLICES.

NOTE 2: WIRE SIZES GIVEN ARE FOR USE OF EQUIPMENT. LARGER SIZES MAY BE REQUIRED BY LOCAL CODES.

NOTE 3: IT IS RECOMMENDED THAT ALL WIRES BE COLOR CODED, AS REQUIRED IN ACCORDANCE WITH NATIONAL AND LOCAL ELECTRICAL CODES.

NOTE 4: CONDUIT SIZES SHALL BE VERIFIED BY THE ARCHITECT, ELECTRICAL ENGINEER OR CONTRACTOR, IN ACCORDANCE WITH LOCAL OR NATIONAL CODES.

NOTE 5: CONVENIENCE OUTLETS ARE NOT ILLUSTRATED. THEIR NUMBER AND LOCATION ARE TO BE SPECIFIED BY OTHERS. LOCATE AT LEAST ONE CONVENIENCE OUTLET CLOSE TO THE SYSTEM CONTROL, THE POWER DISTRITBUTION UNIT AND ONE ON EACH WALL OF THE PROCEDURE ROOM. USE HOSPITAL APPROVED OUTLET OR EQUIVALENT.

NOTE 6: GENERAL ROOM ILLUMINATION IS NOT ILLUSTRATED. CAUTION SHOULD BE TAKEN TO AVOID EXCESSIVE HEAT FROM OVERHEAD SPOTLIGHTS. DAMAGE CAN OCCUR TO CEILING MOUNTING COMPONENTS AND WIRING IF HIGH WATTAGE BULBS ARE USED. RECOMMEND LOW WATTAGE BULBS NO HIGHER THAN 75 WATTS AND USE DIMMER CONTROLS (EXCEPT MR). DO NOT MOUNT LIGHTS DIRECTLY ABOVE AREAS WHERE CEILING MOUNTED ACCESSORIES WILL BE PARKED.

NOTE 7: ROUTING OF CABLE DUCTWORK, CONDUITS ETC., OTHER THAN SHOWN ON THIS DRAWING MAY RESULT IN THE NEED FOR GREATER THAN STANDARD CABLE LENGTHS (REFER TO THE INTERCONNECTION DIAGRAM FOR MAXIMUM USABLE LENGTHS POINT TO POINT).

NOTE 8: CONDUIT TURNS TO HAVE LARGE, SWEEPING BENDS WITH MINIMUM RADIUS IN ACCORDANCE WITH NATIONAL AND LOCAL ELECTRICAL CODES.

NOTE 9: A SPECIAL GROUNDING SYSTEM IS REQUIRED IN ALL PROCEDURE ROOMS BY SOME NATIONAL AND LOCAL CODES. IT IS RECOMMENDED IN AREAS WHERE PATIENTS MIGHT BE EXAMINED OR TREATED UNDER PRESENT, FUTURE, OR EMERGENCY CONDITIONS. CONSULT THE GOVERNING ELECTRICAL CODE AND CONFER WITH APPROPRIATE CUSTOMER ADMINISTRATIVE PERSONNEL TO DETERMINE THE AREAS REQUIRING THIS TYPE OF GROUNDING SYSTEM.

NOTE 10: THE MAXIMUM POINT TO POINT DISTANCES ILLUSTRATED ON THIS DRAWING MUST NOT BE EXCEEDED.

NOTE 11: PHYSICAL CONNECTION OF PRIMARY POWER TO GE EQUIPMENT IS TO BE MADE BY 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 drawing is based on Sketch No.: 8–66

GE Healthcare Technologies
Installation Services Design Center
Milwaukee, Wisconsin

SHEET TITLE: ELECTRICAL SPECIFICATIONS

MODALITY TYPE: 0.2T SIGNA PROFILE

PROJECT TITLE: 8–66f TYPICAL LAYOUTS

PROJECT	REVISION
8–66F	01

DATE: 10–18–07
DRAWN BY: SDB
CHECKED BY: PMM

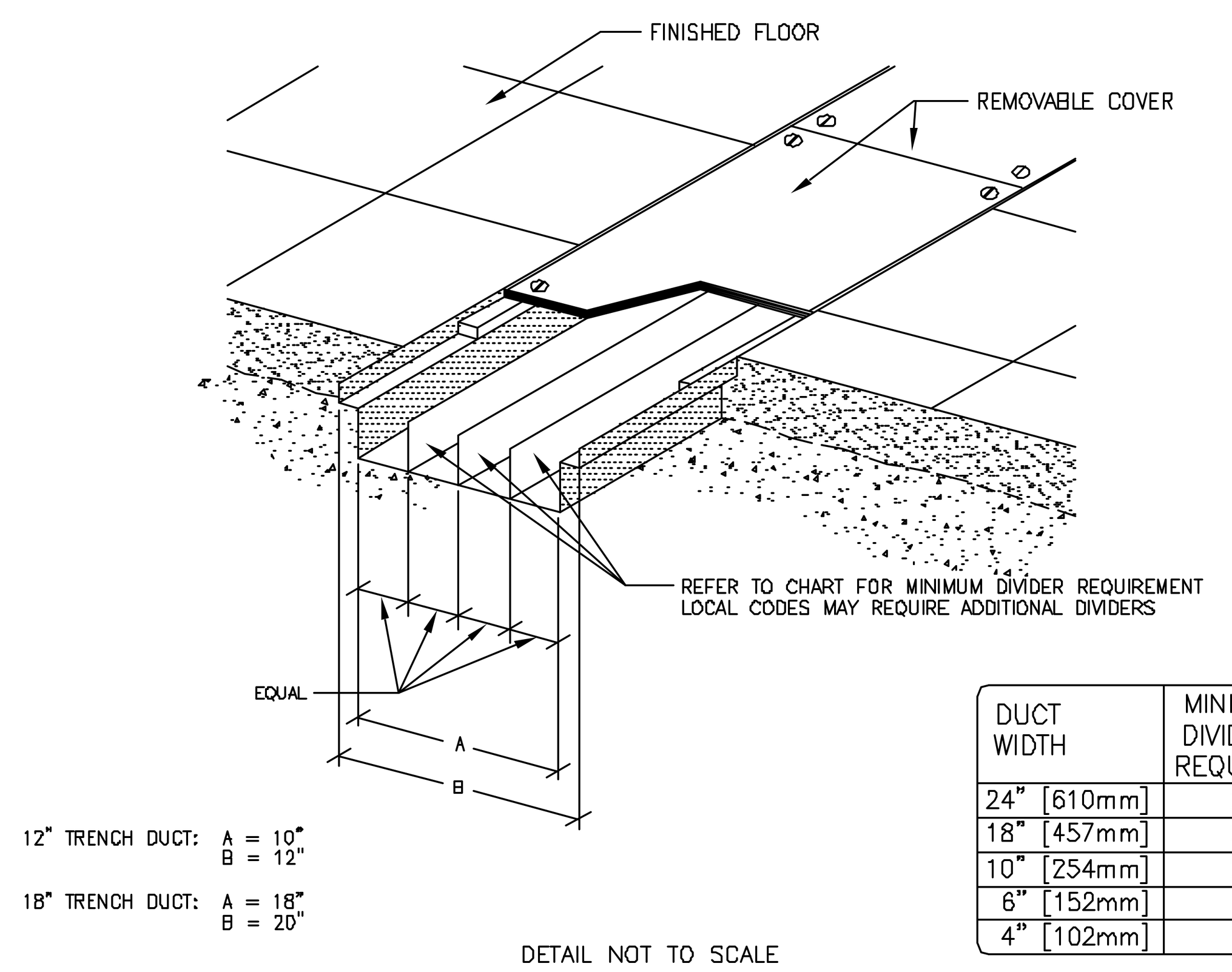
REVISION HISTORY:

SHEET E2

NFSH-1002

ELECTRICAL DETAIL — FLUSH FLOOR DUCT (TYPICAL)

ELEC-3 — REV. DATE: 4/01/04

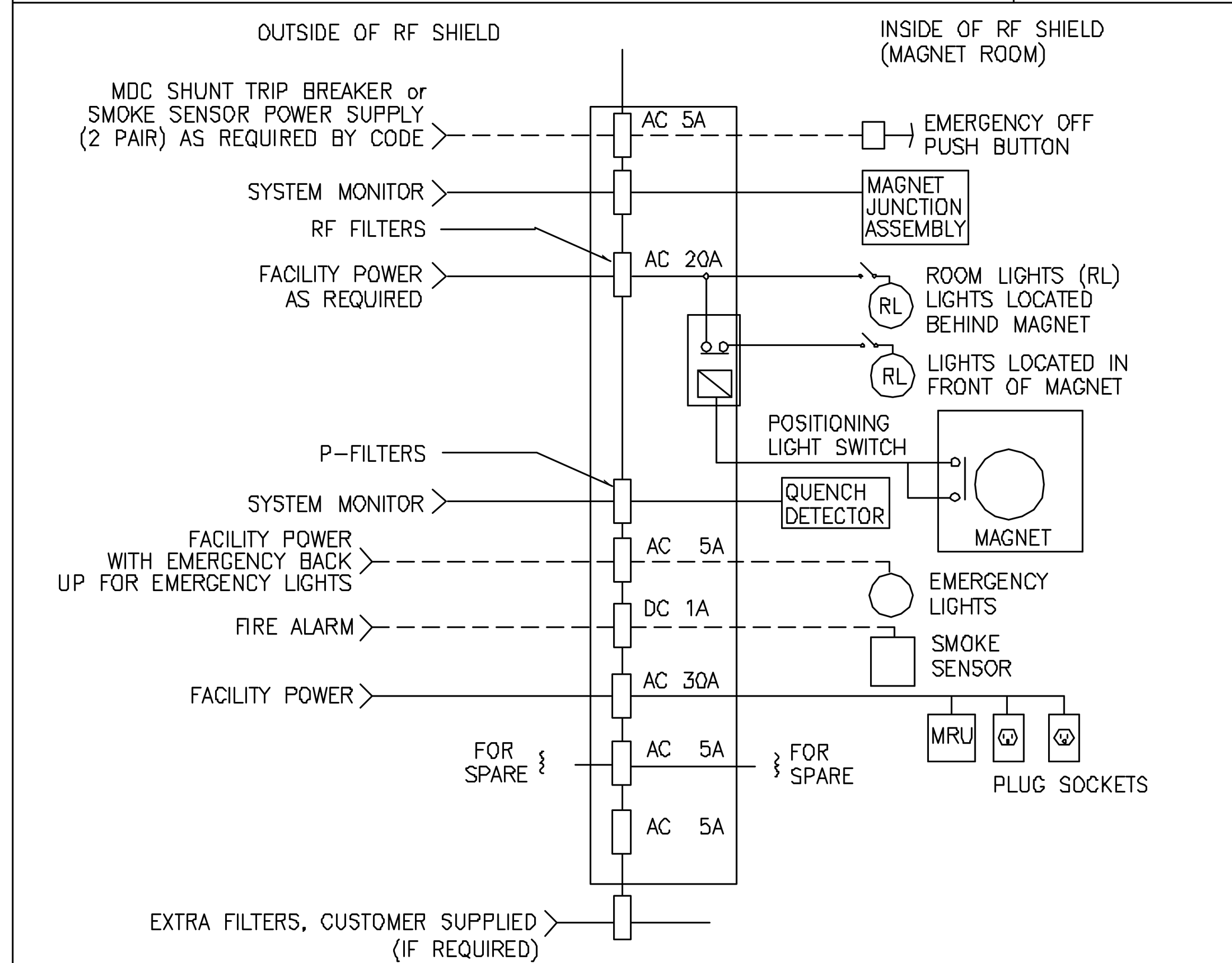


DUCT WIDTH		MINIMUM DIVIDERS REQUIRED
24"	610mm	2
18"	457mm	2
10"	254mm	2
6"	152mm	1
4"	102mm	1

DETAIL NOT TO SCALE

ELECTRICAL DETAIL — TYPICAL RF FILTER APPLICATION

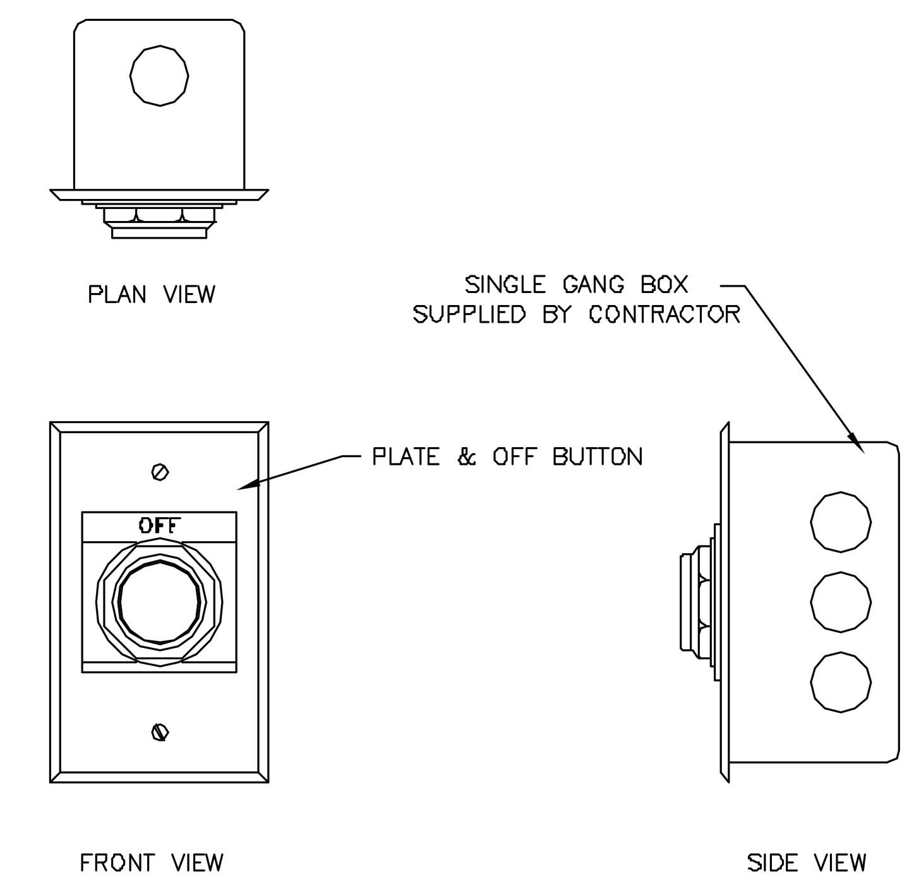
ELEC-82 — REV. DATE: 09/28/98



TYPICAL APPLICATION SHOWN. INDIVIDUAL SITE REQUIREMENTS MUST BE IN COMPLIANCE WITH NATIONAL AND LOCAL BUILDING AND SAFETY CODES.

ELECTRICAL DETAIL — EMERGENCY OFF BUTTON

ELEC-16 — REV. DATE: 08/22/05



DETAIL NOT TO SCALE

ELECTRICAL DETAIL — INSITE CONNECTION (TYPICAL)

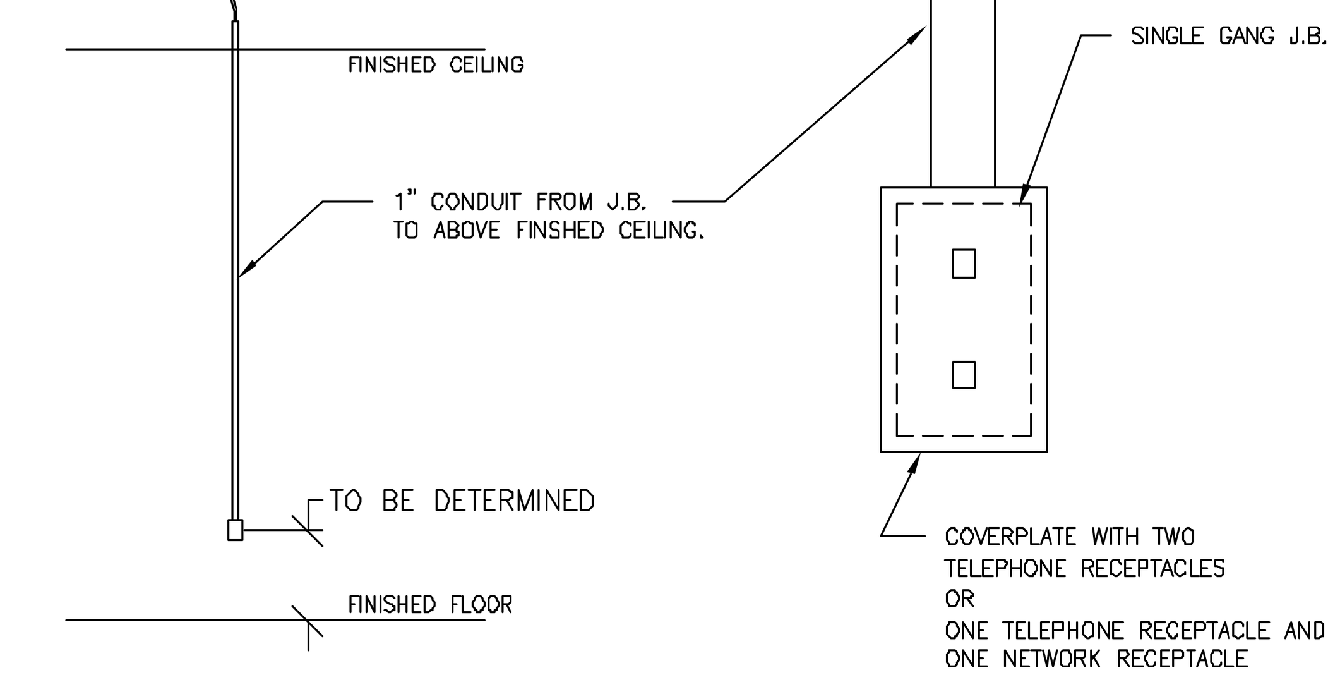
ELEC-1 — REV. DATE: 04/24/02

ONE OF THE FOLLOWING TWO SELECTIONS MUST BE INSTALLED AT THE LOCATION SHOWN ON THE ELECTRICAL PLAN (SHEET E1) FOR GE INSITE CONNECTION BASED UPON SYSTEM CONFIGURATION.

A) ONE INTERNET ACCESSIBLE VIRTUAL PRIVATE NETWORK (VPN) CONNECTION WITH A STATIC IP ADDRESS, AND ONE TELEPHONE LINE – DEDICATED-DIRECT-DIALING, VOICE GRADE.

OR

B) TWO TELEPHONE LINES – ONE DEDICATED DIRECT-DISTANCE-DIALING, VOICE GRADE AND ONE A DEDICATED DATA LINE.

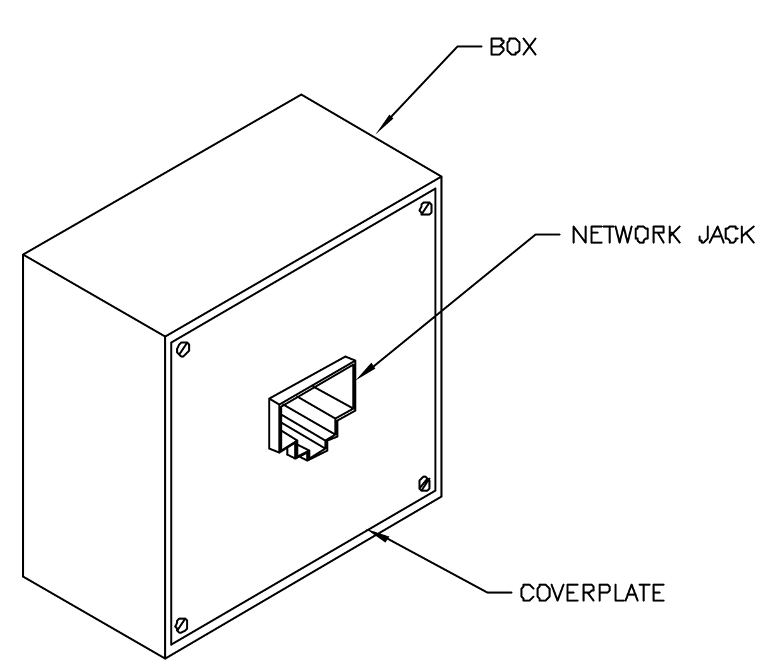


ALL ITEMS ILLUSTRATED ARE TO BE FURNISHED AND INSTALLED BY CUSTOMER OR THEIR CONTRACTOR.

DETAIL NOT TO SCALE

ELECTRICAL DETAIL — BOX WITH COVERPLATE AND NETWORK JACK

ELEC-83 — REV. DATE: 10/06/98

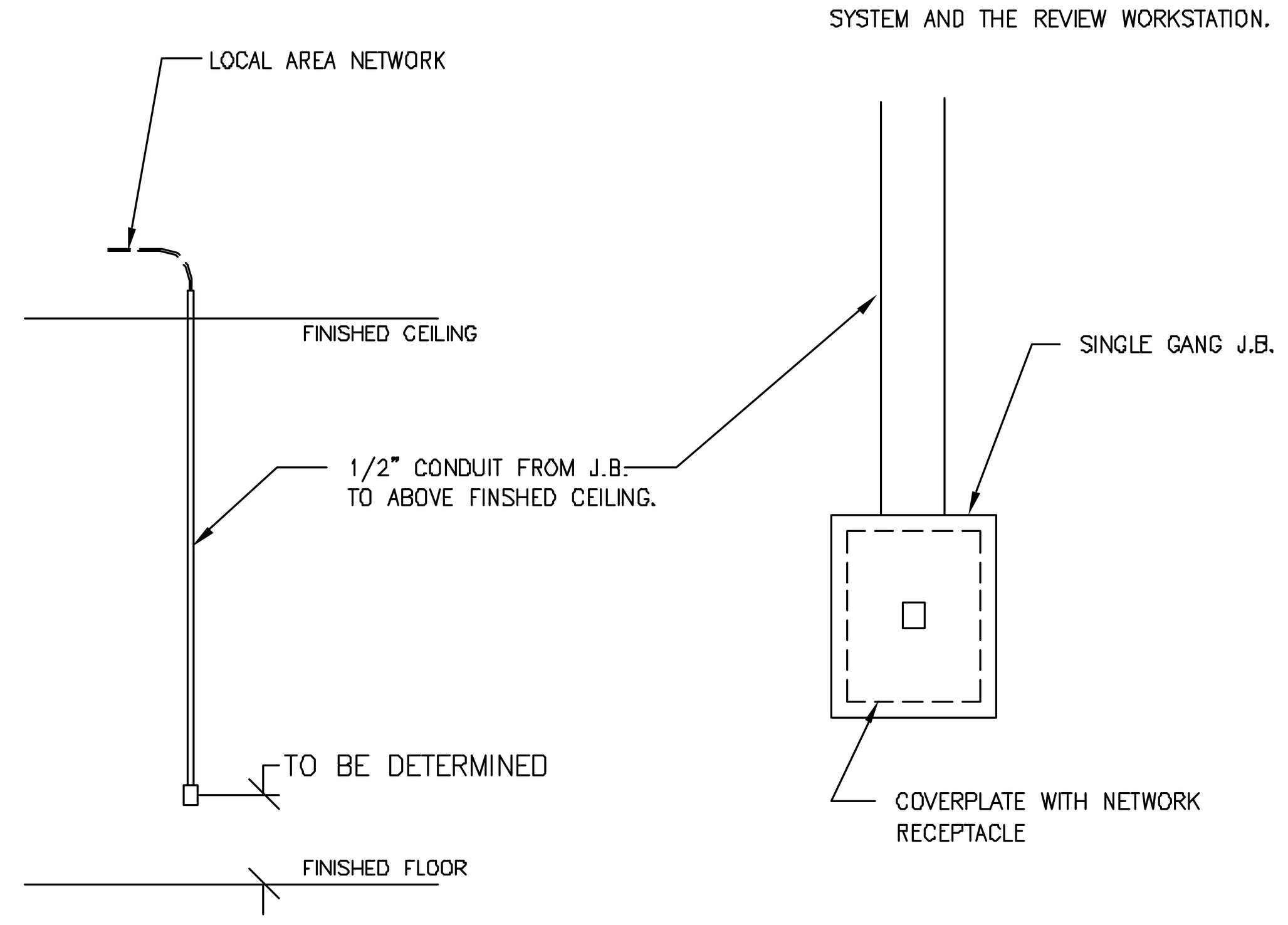


DETAIL NOT TO SCALE

ELECTRICAL DETAIL — NETWORK CONNECTION (TYPICAL)

ELEC-84 — REV. DATE: 03/06/04

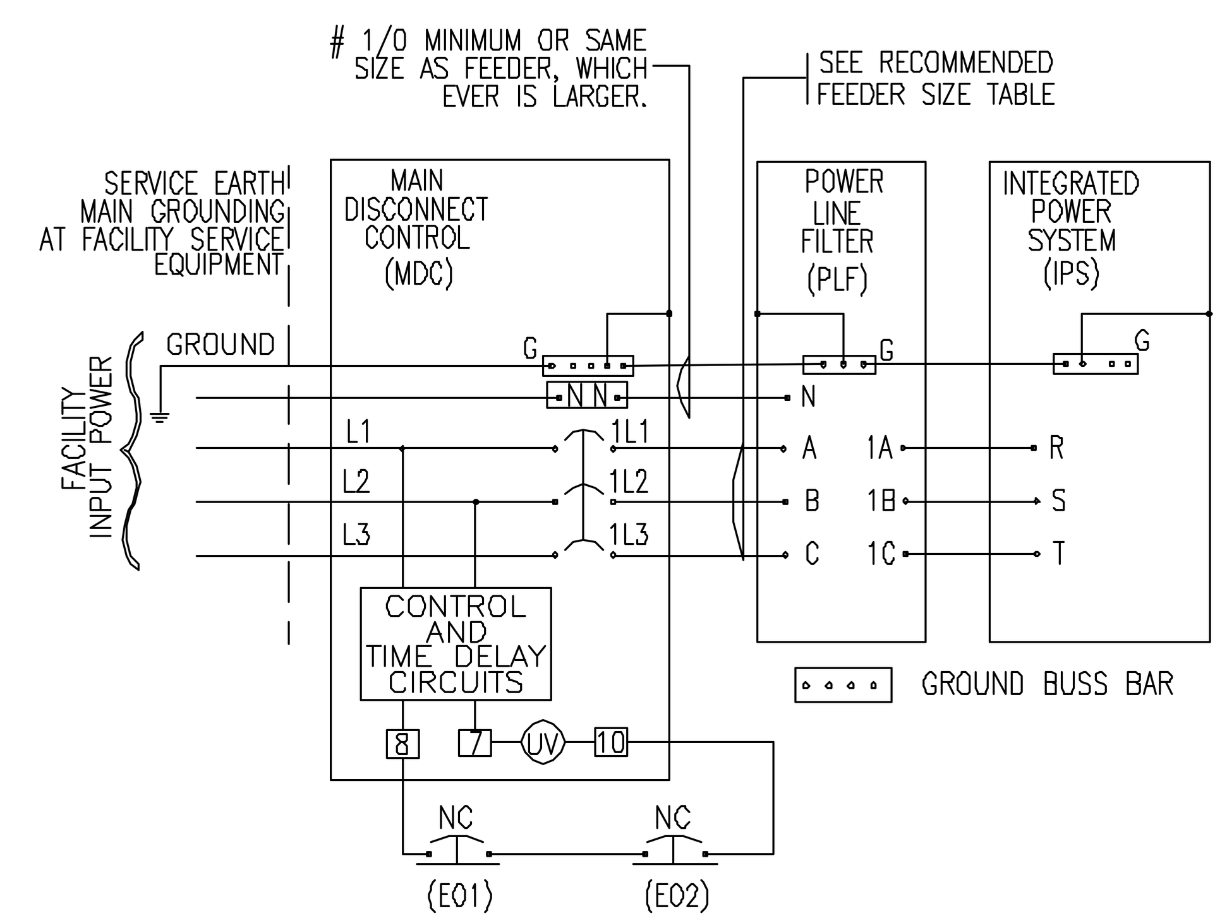
o FOR NUCLEAR SYSTEMS A DIRECT NETWORK CONNECTION IS TO BE MADE BETWEEN THE SYSTEM AND THE REVIEW WORKSTATION.



DETAIL NOT TO SCALE

ELECTRICAL DETAIL — PROTECTIVE DISCONNECT SETUP

ELEC-74 — REV. DATE: 08/31/00



REFER TO THE EQUIPMENT DETAIL SHEETS FOR DIMENSIONAL INFORMATION.

ELECTRICAL DETAIL — TYPICAL MAGNET ROOM GROUNDING

ELEC-81 — REV. DATE: 09/28/98

TO ENSURE PATIENT SAFETY AND SYSTEM PERFORMANCE, THE FOLLOWING CONDITIONS MUST BE MET WHEN RUNNING POWER LINES INTO THE MAGNET ROOM:

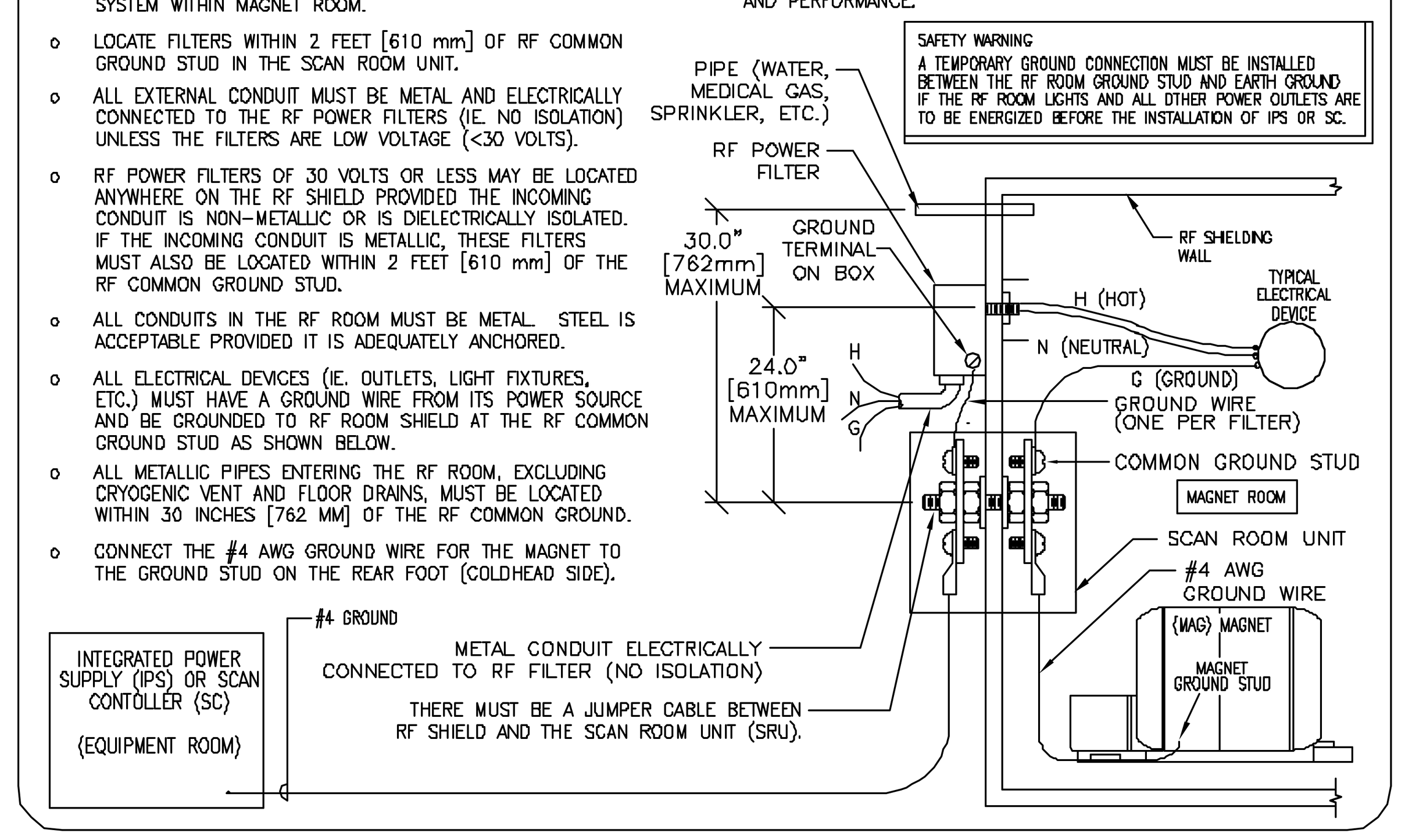
- ALL ITEMS SHOWN ARE CUSTOMER SUPPLIED EXCEPT INTEGRATED POWER SUPPLY OR SCAN CONTROLLER, MAGNET, THE TWO #4 AWG GROUND WIRES BETWEEN MAGNET GROUND STUD AND THE COMMON GROUND STUD AND THE #4 AWG GROUND WIRE BETWEEN THE INTEGRATED POWER SUPPLY OR SCAN CONTROLLER AND THE COMMON GROUND STUD.
- RESISTANCE BETWEEN ANY TWO GROUNDED DEVICES MUST NOT EXCEED 0.1 OHM TO ENSURE EQUAL POTENTIAL GROUND SYSTEM WITHIN MAGNET ROOM.
- LOCATE FILTERS WITHIN 2 FEET [610 mm] OF RF COMMON GROUND STUD IN THE SCAN ROOM UNIT.
- ALL EXTERNAL CONDUIT MUST BE METAL AND ELECTRICALLY CONNECTED TO THE RF POWER FILTERS (IE. NO ISOLATION) UNLESS THE FILTERS ARE LOW VOLTAGE (<30 VOLTS).
- RF POWER FILTERS OF 30 VOLTS OR LESS MAY BE LOCATED ANYWHERE ON THE RF SHIELD PROVIDED THE INCOMING CONDUIT IS NON-METALLIC OR IS DIELECTRICALLY ISOLATED. IF THE INCOMING CONDUIT IS METALLIC, THESE FILTERS MUST ALSO BE LOCATED WITHIN 2 FEET [610 mm] OF THE RF COMMON GROUND STUD.
- ALL CONDUITS IN THE RF ROOM MUST BE METAL. STEEL IS ACCEPTABLE PROVIDED IT IS ADEQUATELY ANCHORED.
- ALL ELECTRICAL DEVICES (IE. OUTLETS, LIGHT FIXTURES, ETC.) MUST HAVE A GROUND WIRE FROM ITS POWER SOURCE AND BE GROUNDED TO RF ROOM SHIELD AT THE RF COMMON GROUND STUD AS SHOWN BELOW.
- ALL METALLIC PIPES ENTERING THE RF ROOM, EXCLUDING CRYOGENIC VENT AND FLOOR DRAINS, MUST BE LOCATED WITHIN 30 INCHES [762 MM] OF THE RF COMMON GROUND.
- CONNECT THE #4 AWG GROUND WIRE FOR THE MAGNET TO THE GROUND STUD ON THE REAR FOOT (COLDHEAD SIDE).

THE MR SYSTEM IS DESIGNED WITH MINIMUM GROUND LOOPS TO PREVENT NOISE CURRENTS AND NATURAL DISTURBANCES FROM FLOWING THROUGH THE LOW-LEVEL SIGNAL REFERENCE PATH.

THE THREE MAJOR GROUNDING POINTS IN THE MR SYSTEM ARE: THE SYSTEM GROUND POINT (BUS) IN INTEGRATED POWER SUPPLY OR SCAN CONTROOLER, THE ENCLOSURE GROUND POINTS (GROUND STUDS LOCATED IN EACH CABINET OR ENCLOSURE), AND THE RF SHIELDED ROOM COMMON GROUND POINT IN THE SRU.

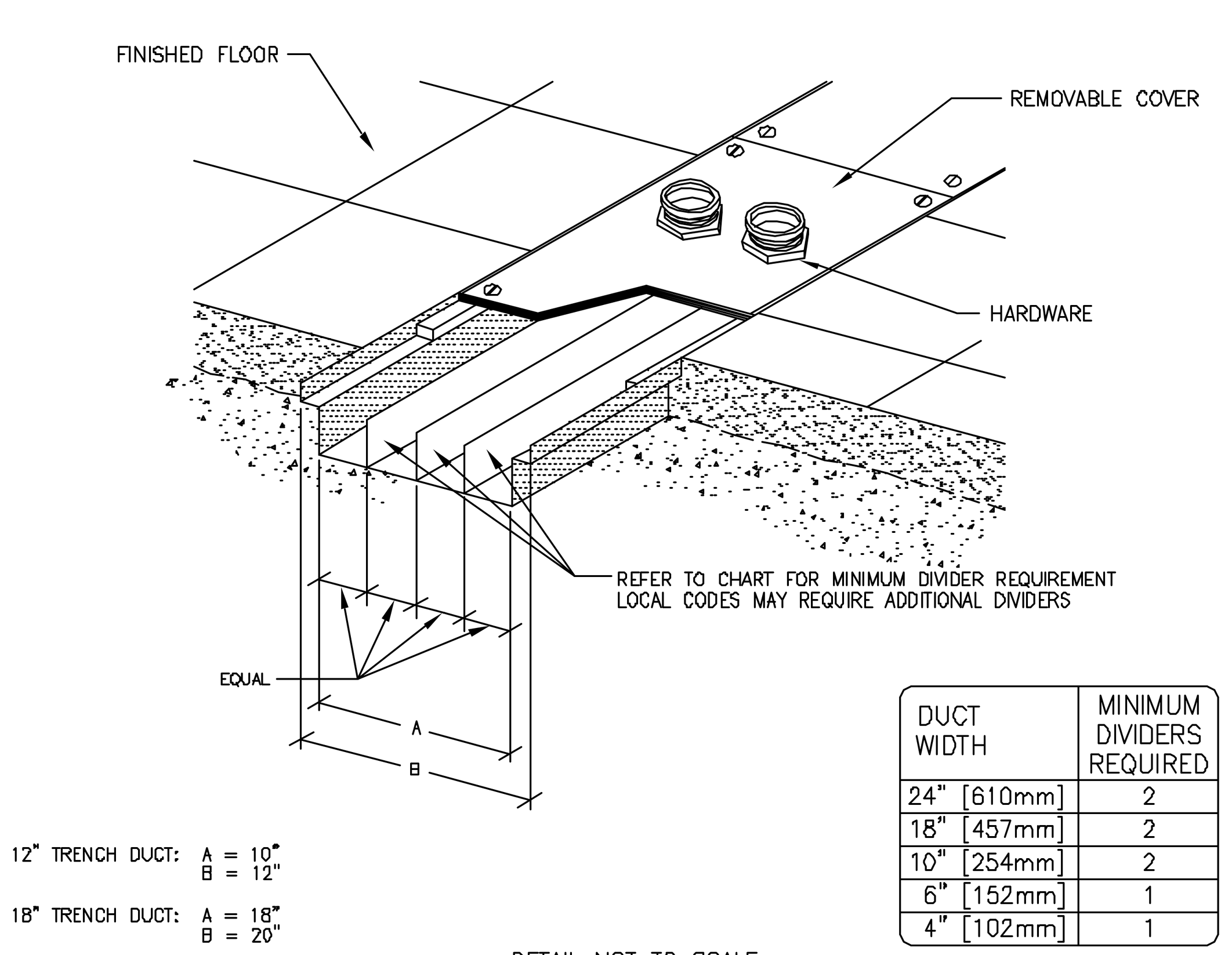
ANY MODIFICATIONS OR NON-MR EQUIPMENT GROUNDS ADDED TO THE MR GROUND SYSTEM MUST BE APPROVED BY YOUR LOCAL GE MEDICAL SYSTEMS REPRESENTATIVE IN ORDER TO ENSURE SAFETY AND PERFORMANCE.

SAFETY WARNING
A TEMPORARY GROUND CONNECTION MUST BE INSTALLED BETWEEN THE RF ROOM GROUND STUD AND EARTH GROUND IF THE RF ROOM LIGHTS AND ALL OTHER POWER OUTLETS ARE TO BE ENERGIZED BEFORE THE INSTALLATION OF IPS OR SC.



ELECTRICAL DETAIL — FLUSH FLOOR DUCT (TYPICAL)

ELEC-25 — REV. DATE: 4/01/04



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

DETAIL NOT TO SCALE

This drawing is based on Sketch No.: 8-66

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

GE Healthcare Technologies
Installation Services Design Center
Milwaukee, Wisconsin

SHEET TITLE: ELECTRICAL DETAILS
MODALITY TYPE: 0.2T SIGNA PROFILE

PROJECT TITLE: 8-66f TYPICAL LAYOUTS

PROJECT	REVISION
8-66F	01

DATE: 10-18-07
DRAWN BY: SDB
CHECKED BY: PMM

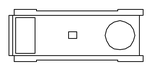
REVISION HISTORY:

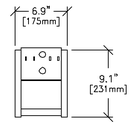
SHEET E3

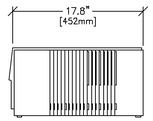
NFSH-1002

EQUIPMENT DETAIL
UNINTERRUPTED POWER SUPPLY (UPS)

M05-10
REV. 0
REV. DATE: 08/06/97



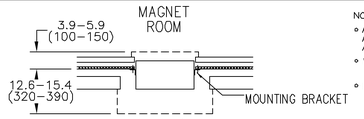




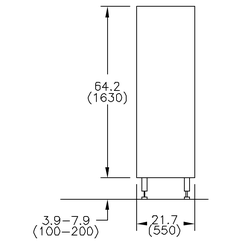
DETAIL NOT TO SCALE

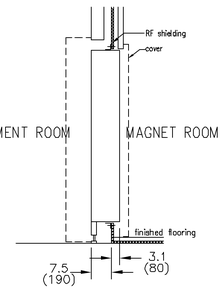
EQUIPMENT DETAIL
SCAN ROOM UNIT

V07-05



NOTE:
- ALL DIMENSIONS ARE IN INCHES ALL BRACKETED ( ) DIMENSIONS ARE IN MILLIMETERS.
- WEIGHT: 264 lbs (120 kg) – including covers
- BTU/HR: 1706 (500W)

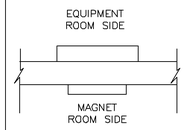


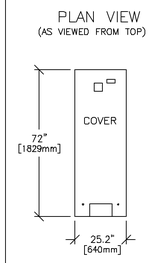


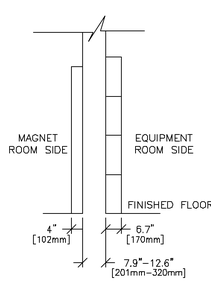
EQUIPMENT DETAIL
COVERS OF SCAN ROOM UNIT

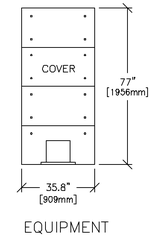
V08-05
REV. 0
REV. DATE: 08/06/97

DETAIL NOT TO SCALE



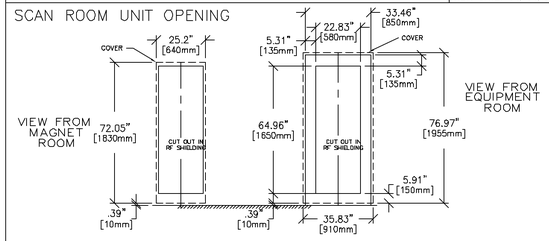


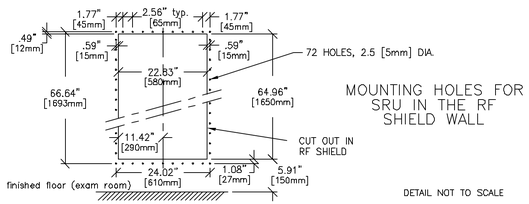




EQUIPMENT DETAIL
SCAN ROOM UNIT OPENING

V19-05
REV. DATE: 01/04/99

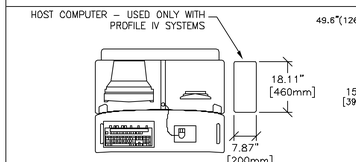


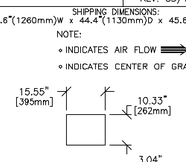


DETAIL NOT TO SCALE

EQUIPMENT DETAIL
OPERATOR CONSOLE

M05-08
REV: 05/19/05

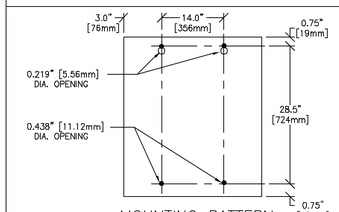




DETAIL NOT TO SCALE

EQUIPMENT DETAIL
MAIN DISCONNECT CONTROL

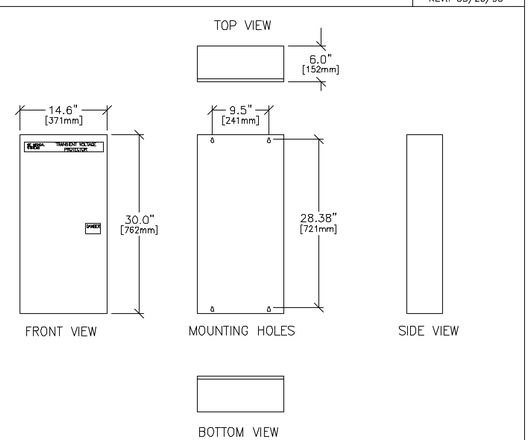
R45-03PP
REV.: 09/05/00



DETAIL NOT TO SCALE

EQUIPMENT DETAIL
TRANSIENT VOLTAGE PROTECTOR

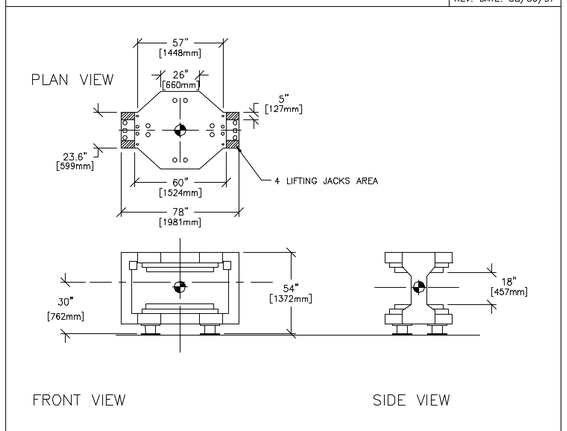
R45-03P1
REV.: 03/20/98



DETAIL NOT TO SCALE

EQUIPMENT DETAIL
MAGNET DIMENSIONS

M02-02
REV. 0
REV. DATE: 08/06/97

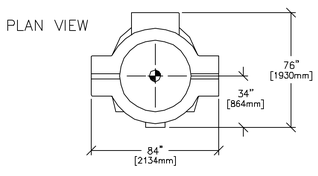


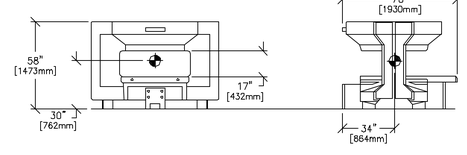
DETAIL NOT TO SCALE

EQUIPMENT DETAIL
MAGNET ENCLOSURE

M02-01
REV. DATE: 05/19/05

SHIPPING DIMENSIONS:
78.7"(2000mm)W x 90.5"(2300mm)D x 74.8"(1900mm)H



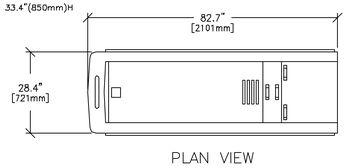


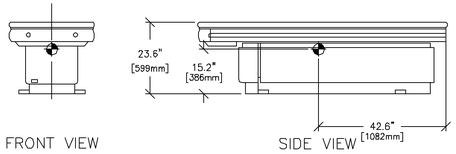
DETAIL NOT TO SCALE

EQUIPMENT DETAIL
TABLE

M02-08
REV. DATE: 05/19/05

SHIPPING DIMENSIONS:
86.6"(2200mm)W x 34.8"(880mm)D x 33.4"(850mm)H



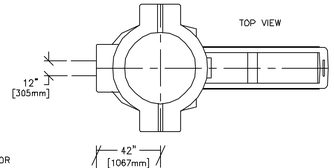


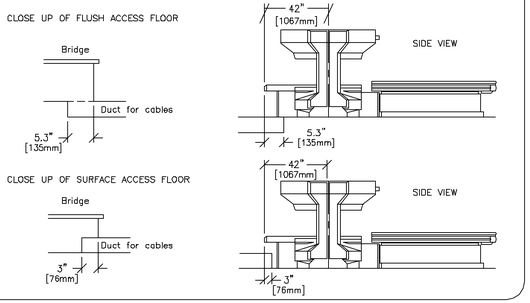
DETAIL NOT TO SCALE

EQUIPMENT DETAIL
MAGNET CABLE ACCESS

M02-09
REV. 0
REV. DATE: 08/06/97

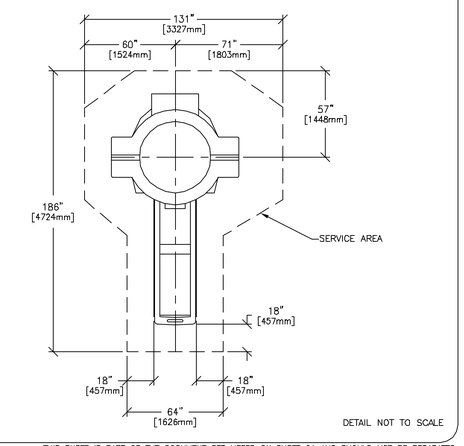
DETAIL NOT TO SCALE





EQUIPMENT DETAIL
MAGNET (MINIMUM SERVICE AREA)

M02-10
REV. DATE: 08/06/97



DETAIL NOT TO SCALE

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

GE Healthcare Technologies
Installation Services Design Center
Milwaukee, Wisconsin

SHEET TITLE: EQUIPMENT DETAILS

MODALITY TYPE: 0.2T SIGNA PROFILE

This drawing is based on Sketch No.: 8-66

PROJECT TITLE: 8-66f TYPICAL LAYOUTS

PROJECT	REVISION
8-66F	01

DATE: 10-18-07
DRAWN BY: SDB
CHECKED BY: PMM

REVISION HISTORY:

SHEET
D1

NPSH-1002

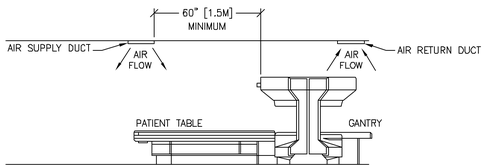
EQUIPMENT DETAIL
MAGNET SYSTEM AIR COOLING

M02-10A

REV. DATE: 06/23/98

BECAUSE MAGNETS ARE SENSITIVE TO TEMPERATURE CHANGE, CARE MUST BE TAKEN IN LOCATING THE AIR CONDITIONING SUPPLY AND AIR DUCTS TO THE MAGNET ROOM TO ENSURE PROPER AIR FLOWS. SUPPLY DUCTS ARE TO BE LOCATED BY PATIENT TABLE SIDES SO CONDITIONED AIR DOES NOT FLOW DIRECTLY TO THE MAGNET. RETURN DUCTS ARE TO BE LOCATED NEAR MAGNET SIDE TO MAINTAIN CIRCULAR AIR FLOW.

MAGNET ROOM MUST NOT BE ON SET-BACK MODE FOR AIR CONDITIONING A CONSTANT TEMPERATURE IS REQUIRED IN THE MAGNET ROOM.



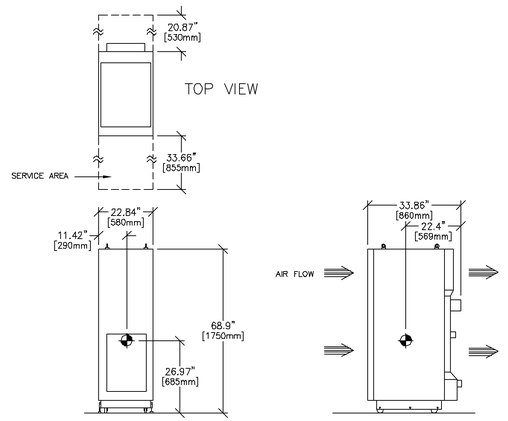
SIDE VIEW

DETAIL NOT TO SCALE

EQUIPMENT DETAIL
INTEGRATED POWER SYSTEM

M02-13

REV. 0: 01/07/98



This drawing is based on Sketch No.: 8-66

GE Healthcare Technologies

Installation Services Design Center

Wisconsin

Milwaukee,

SHEET TITLE: EQUIPMENT DETAILS

MODALITY TYPE: 0.2T SIGNA PROFILE

PROJECT TITLE:

8-66f
TYPICAL LAYOUTS

PROJECT	REVISION
8-66F	01

DATE: 10-18-07

DRAWN BY: SDB

CHECKED BY: PMM

REVISION HISTORY:

SHEET

D2