

Drawing Index

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

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These equipment IS drawings indicate the placement and interconnection of the listed equipment components. These drawings are not construction or site preparation drawings. Customer remains ultimately responsible for preparing the site to accommodate the IS and operation of such equipment in compliance with GE Healthcare's written specifications and all applicable federal, state, and/or local requirements.

* REQUIRED REFERENCE *

Signa 1.5T HDe
Pre Installation Manual
5143464

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



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

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							
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 regardless of any GEHC measurements/inspections/assessments.							
<small>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. Broadband/phon</small>							
Item #	GEHC Minimum Requirements	Storage: Is item ready?	Packing (If in case)		Verify (Delivery): Is item ready?	Validate (Mech Install): Is item ready?	Comments if "N", please enter in comments or action plan
			Is this item ready?	Will item be ready?			
1	Equipment installation drawings must match actual room size, equipment placement and must meet clearance requirements. Deviations that meet installation requirements may be red-lined, if allowed by local code. Seismic requirements identified on construct.						
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, not in scan suite, are dust free. Provisions taken to maintain a dust free room. Room security to prevent unauthorized access and theft has been discussed with customer. The customer is aware of						
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, sto						
5	Ceiling grid is installed. Permanent lighting is installed and operational. Unistrut (or equivalent) location and spacing was measured and is consistent with the requirements of the installation drawings.						
6	Floor is clean and prepared for final floor covering. For MR, CT & Nuc scan rooms, floor levelness was measured and does not exceed tolerances specified in GEHC's applicable PM, and no visible floor surface defects were observed.						
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).						
9	Mechanical supplier has been provided with a set of equipment installation drawings for reference. For California, permitted construction drawings or PM-specified installation drawings are required.						
#	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.						

GE Healthcare

IS Services Design Center
Milwaukee, Wisconsin
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SHEET TITLE: **SITE READINESS**

MODALITY TYPE: **1.5T SIGNA HDe - TYPE A**

NO EQUIPMENT ROOM

THIS PLAN IS SUBMITTED TO SUGGEST LOCATION OF GE HEALTHCARE EQUIPMENT AND ASSOCIATED APPARATUS, ELECTRICAL WIRING DETAILS AND ROOM ARRANGEMENTS. IT IS THE CUSTOMER'S RESPONSIBILITY TO VERIFY THAT ALL REQUIREMENTS FOR THE ACTUAL EQUIPMENT TO BE INSTALLED ARE MET. THE COMPANY CANNOT ACCEPT RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:

TYPICAL MR TYPICAL DRAWINGS

PROJECT	REVISION
8-198F	03
DATE:	06.JAN.12
DRAWN BY:	PMM
CHECKED BY:	TMS

REVISION HISTORY:

SHEET

C1

This drawing is based on Sketch No.: 8-198
PIM R7

GE EQUIPMENT LISTING

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

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

ITEM NO.	QUANTITY ORDERED	REFER TO SHEET "D"	ITEM DESCRIPTION (* = EXISTING/REINSTALL)	WEIGHT	HEAT OUTPUT (PER HOUR)	DETAIL NO.	STRC PLAN	ELEC PLAN
1	1		SYSTEM CABINET	2698 lbs	9556 btu	M0B15K	-	MR2
2	1		MESH SHIELD			M0B15L	-	
3	1		PENETRATION PANEL			M5015G	-	PP1
4	1		MAGNET MONITOR	22 lbs	204 btu	M1615C	-	MM
5	1		MAGNET RUNDOWN UNIT	8 lbs		M1715A	-	MS4
6	1		OPERATOR WORKSPACE W/COLOR LCD MONITOR	145 lbs	4948 btu	M3015R	-	OW
7	1		OPERATOR'S CHAIR				-	
8	1		OPERATOR WORKSPACE CABINET	198 lbs		M0615D	-	
9	1		PATIENT ALERT CONTROL BOX			M4815	-	PA
10	1		1.5 TESLA LCC ACTIVE SHIELD MAGNET	13115 lbs	8191 btu	M6515	-	MS1
11	1		PATIENT TRANSPORT TABLE (DOES NOT INCLUDE PATIENT)	279 lbs		M2315	-	S
12	1		COOLING UNIT	121 lbs	5699 btu	M6015E	-	WC2
13	1		BLOWER BOX	46 lbs	3412 btu	M5715	M5815	MG6
14	1		ABSORBER	99 lbs		M6015F	-	MSS1
15	1		SPT PHANTOM CABINET	350 lbs		M6115	-	
16	1		INJECTOR HEAD ON PEDESTAL (OPTIONAL)	59 lbs		E8804S1	-	IH
17	0		CONTROL ROOM UNIT (OPTIONAL)	15 lbs		E8804S	-	ICC
18	0		BATTERY CHARGING UNIT (OPTIONAL)	4 lbs		E8804S	-	

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

19	1		MR COMMON CHILLER SYSTEM	683 lbs	52560 btu	M3088T	-	MRCC
20	1		SHIELD COOLER COMPRESSOR	253 lbs	28123 btu	M6015G	-	MS50
21	1		REMOTE CONTROL FOR CHILLER SYSTEM	2 lbs		M3088R	-	RCP

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

EQUIPMENT LAYOUT

RECOMMENDED CEILING HEIGHT = 8'-9"

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.

MRI SITE PLANNING REMINDERS

- PLEASE REFER TO PRE-INSTALLATION CHECKLIST IN PRE-INSTALLATION MANUAL LISTED ON SHEET C1 FOR ITEMS CRITICAL TO IMAGE QUALITY.
- 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.
 - 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 PRE-INSTALLATION MANUAL REFERENCED ON C1.
 - 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.
 - FOR VIBRATION, PLEASE CONFIRM THAT A VIBRATION STUDY HAS BEEN RECOMMENDED AND/OR SUCCESSFULLY COMPLETED.
 - FOR EMI, 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.
 - DETAILS OF THE FLOOR BELOW THE MAGNET MUST 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 PRE-INSTALLATION MANUAL REFERENCED ON SHEET C1.
- 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.

IMAGE QUALITY CONSIDERATIONS

- BROADBAND RF NOISE IS A SINGLE TRANSIENT OR CONTINUOUS SERIES OF TRANSIENT DISTURBANCES CAUSED BY AN ELECTRICAL DISCHARGE. LOW HUMIDITY ENVIRONMENTAL CONDITIONS WILL HAVE HIGHER PROBABILITY OF ELECTRICAL DISCHARGE. THE ELECTRICAL DISCHARGE CAN OCCUR DUE TO ELECTRICAL ARCING (MICRO ARCING) OR MERELY STATIC DISCHARGE. SOME POTENTIAL SOURCES CAPABLE OF PRODUCING ELECTRICAL DISCHARGE INCLUDE:
- LOOSE HARDWARE/FASTENERS VIBRATION OR MOVEMENT (ELECTRICAL CONTINUITY MUST ALWAYS BE MAINTAINED)
 - FLOORING MATERIAL INCLUDING RAISED ACCESS FLOORING (PANELS & SUPPORT HARDWARE) AND CARPETING
 - ELECTRICAL FIXTURES (I.E. LIGHTING FIXTURES, TRACK LIGHTING, EMERGENCY LIGHTING, BATTERY CHARGERS, OUTLETS)
 - DUCTING FOR HVAC AND CABLE ROUTING
 - RF SHIELD SEALS (WALLS, DOORS, WINDOWS ETC.)
- FOR ADDITIONAL INFORMATION REGARDING IMAGE QUALITY, REFER TO THE PRE-INSTALLATION MANUAL LISTED ON SHEET C1.

NOTE: VERIFY DELIVERY ROUTE FOR MAGNET, EQUIPMENT, AND SERVICE EQUIPMENT PRIOR TO DELIVERY.

CRITICAL ITEMS FOR MAGNET DELIVERY

- 24/7 CHILLED WATER AND 480V POWER FOR SHIELD/CRYO COOLER
 - 24/7 120V POWER FOR THE MAGNET MONITOR
 - PHONE LINES FOR MAGNET MONITORING AND EMERGENCY USE
 - MAGNET ROOM EXHAUST FAN
 - CRYOGEN VENTING (IF ROOF HATCH, COMPLETED WITHIN 24 HRS)
 - MAGNET ANCHORS INSTALLED AND TESTED
- THIS IS ONLY A PARTIAL LIST OF ITEMS REQUIRED FOR DELIVERY OF THE MAGNET. FOR A COMPLETE CHECKLIST REFER TO THE PRE-INSTALLATION MANUAL REFERENCED ON SHEET C1.

* 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 AMBENT 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	RF FILTERS - LOCATE WITHIN 24 IN. (610 mm) OF THE RF COMMON GROUND STUD
61	AIR CONDITIONING (VIBRATION ISOLATION IS RECOMMENDED AT SUPPORTS OF EACH UNIT TO BE INSTALLED)
62	MINIMUM DOOR OPENING FOR EQUIPMENT DELIVERY IS 48 IN. W X 86 IN. H (1219mm X 2183mm), CONTINGENT ON A 96 IN. (2438mm) CORRIDOR WIDTH
63	SHELF - CUSTOMER TO PROVIDE ADEQUATE WALL SUPPORT
64	VALVES AND HOSE BARBS FOR COOLING SYSTEM
65	MAGNET ROOM EXHAUST FAN
66	MINIMUM 9 FT.-0 IN. (2743 mm) X 9 FT.-0 IN. (2743 mm) REMOVABLE WALL SECTION FOR MAGNET DELIVERY/REMOVAL.
67	RF SCREEN, INCLUSIVE OF WALLS, FLOOR, DOOR, ETC. GROUNDING IS REQUIRED. SCREEN GREATER THAN 1/8" (3.18mm) THICK FOR ATTENUATION 100dB AT 10-100MHz PLANEWAVE.
68	BASE CABINET FOR STORAGE OF: SURFACE COILS, PATIENT POSITIONING PADS, PHANTOMS, ETC.

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

90	DC LIGHTING CONTROL PANEL 122 lbs (70 kg) 1024 BTU/HR (300W) (CAT. NO. E45025/SF - BASIC SYSTEM)
91	MAIN DISCONNECT CONTROL 900 BTU (264 W) 350 lbs (158kg) CAT. NO. M3088TM
92	DC LIGHTING AUTO TRANSFORMER 60 lbs (27 kg) 171 BTU/HR (50W) (PART OF VARIABLE DIMMER SYSTEM) (CAT. NO. E45025/SF INCLUDES BASIC SYSTEM)
93	METAL DETECTOR (HAND HELD)
94	WORKSTATION TABLE CAT. NO. M20032FK

GENERAL SPECIFICATIONS

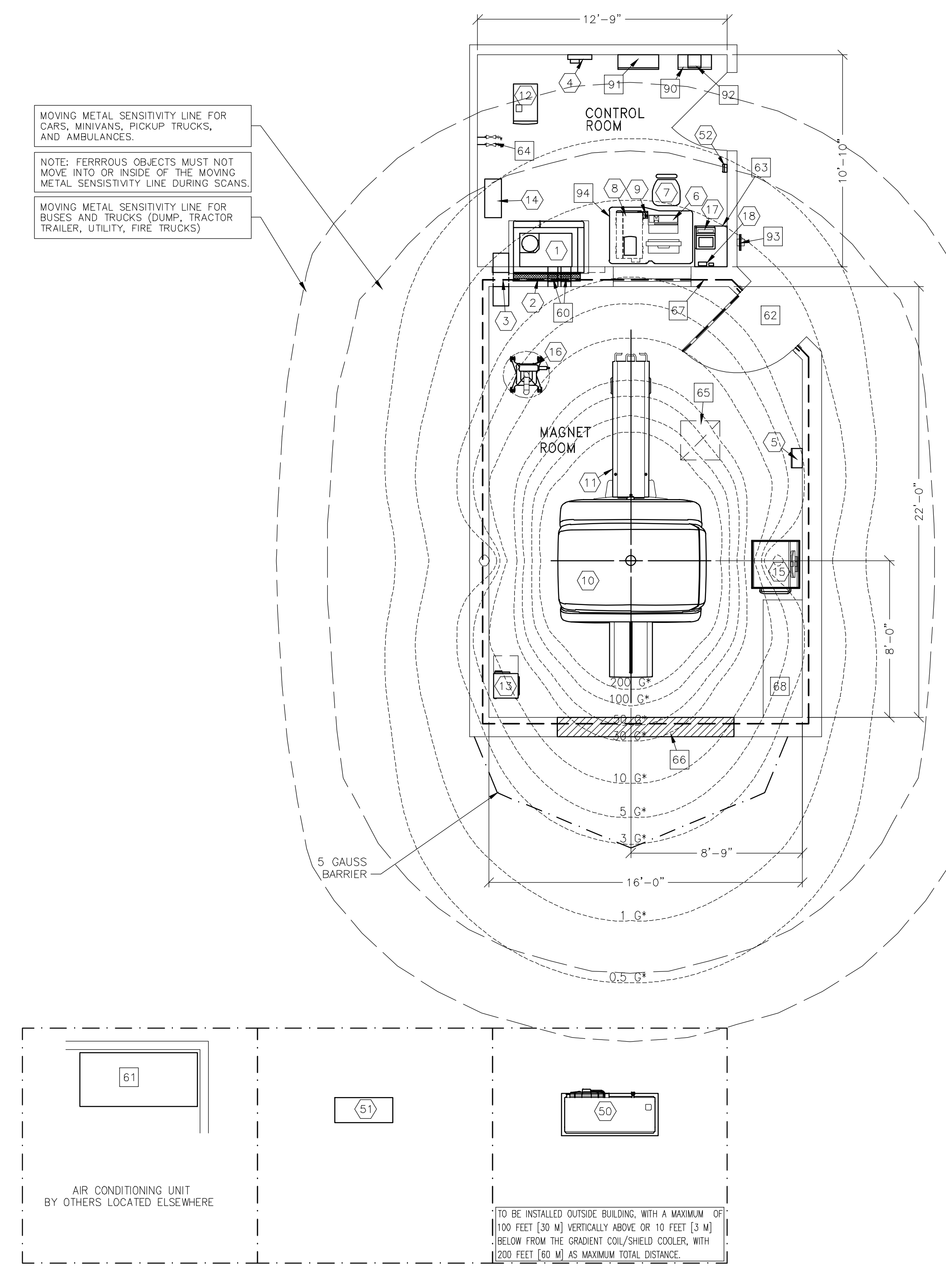
- THE REQUIRED CEILING HEIGHT INDICATED ON THESE PLANS IS TO ENSURE EQUIPMENT FUNCTION IS NOT INHIBITED. CONSULT WITH YOUR LOCAL GEHC IS SPECIALIST REGARDING ACCEPTABILITY OF OTHER CEILING HEIGHTS.
- CHECK ALL DOOR OPENINGS AND HALLWAYS FROM DELIVERY LOCATION TO WHERE EQUIPMENT IS TO BE INSTALLED TO ENSURE THE ROUTE PHYSICALLY AND STRUCTURALLY WILL ACCOMMODATE THE EQUIPMENT AS SHIPPED.
- RADIATION PROTECTION REQUIREMENTS ARE NOT INDICATED ON THIS PLAN. WHERE NEEDED PER NATIONAL OR LOCAL CODE THEY SHALL BE SPECIFIED BY A QUALIFIED RADIOLOGICAL PHYSICIST.
- THE DEVELOPMENT OF THE EQUIPMENT LAYOUT, ROOM DIMENSIONS, MECHANICAL AND ELECTRICAL SUGGESTIONS IS PRECEDIATED 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: 59-89.6 DEG (F) [15-32 (C)] FOR THE CONTROL AND EQUIPMENT AREAS, [59-89.8 DEG (F) [15-24 (C)] FOR THE MAGNET ROOM. MAXIMUM ALLOWABLE TEMPERATURE CHANGE OF 5 DEG (F)/HR [3 (C)/HR]. MAXIMUM ROOM TEMPERATURE GRADIENT 5 DEG (F) [3 (C)].
- HUMIDITY: 30 TO 75 (30-60 FOR THE MAGNET ROOM) PERCENT NON-CONDENSING, MAXIMUM ALLOWABLE CHANGE OF 5 PERCENT/HOUR.
- ALTITUDE: 100 FT [30.5M] BELOW SEA LEVEL TO 8,000 FT. [2438M] ABOVE SEA LEVEL.
- ENVIRONMENTAL RESTRICTIONS ABOVE MUST NOT BE EXCEEDED FOR THE ELECTRONICS.
- 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.
- THE SHIELD COOLER COMPRESSOR CABINET REQUIRES WATER COOLING TO DISSIPATE THE HEAT OUTPUT. HEAT DISSIPATION TO AIR IS NEGLIGIBLE. 24 HOUR POWER AND WATER COOLING MUST BE AVAILABLE UPON MAGNET DELIVERY.
- CRYOGEN VENTING AND MAGNET ROOM EXHAUST FAN SYSTEMS MUST BE COMPLETED IN THE MAGNET ROOM PRIOR TO DELIVERY.
- FLOURESCENT LIGHTING IS NOT ALLOWED IN THE MAGNET ROOM DUE TO RF NOISE.

MAGNETIC INTERFERENCE SPECIFICATIONS

- THE CUSTOMER MUST ESTABLISH PROTOCOLS TO PREVENT PERSONS WITH CARDIAC PACEMAKERS, NEUROSTIMULATORS, AND BIOSTIMULATION DEVICES FROM ENTERING MAGNETIC FIELDS OF GREATER THAN 5 GAUSS (EXCLUSION ZONE).
 - MAIN POWER TRANSFORMERS MUST REMAIN OUTSIDE THE 3 GAUSS FIELD. EMI < 40mG AC. EMI < 4.43mG DC.
 - POTENTIAL EXISTS UNDER FAULT CONDITIONS THAT THE 5 GAUSS LINE MAY EXPAND RADIALLY TO 16.4 FT. [5.0 m] AND AXIALLY TO 22.96 FT. [7.0 m] FOR 2 SECONDS OR LESS. IT SHOULD BE NOTED THAT NORMAL RAMPDOWNS OR MRU (MAGNET RUNDOWN UNIT) INITIATED QUENCHES WILL NOT CAUSE THE MAGNETIC FIELD TO EXPAND.
 - IT IS RECOMMENDED EVERY SITE CONSIDER THE EVENT OF A QUENCH AND PLAN ACCORDINGLY (SUCH AS PLACING 5 GAUSS WARNING SIGNS AT EXPANDED LOCATIONS).
 - THE FERROUS METAL OBJECTS LISTED BELOW MUST NOT MOVE INTO OR INSIDE OF THE MOVING METAL SENSITIVITY LINE DURING SCANS.
- | TYPICAL MOVING MAGNETIC MASS | DISTANCE RADIALLY | DISTANCE AXIALLY |
|---|-------------------|-------------------|
| CARTS, GURNEYS 100-400 lbs [45-182 kg] | 3 GAUSS LINE | 3 GAUSS LINE |
| FORKLIFTS, SMALL ELEVATOR, CARS, MINIVANS VANS, PICKUP TRUCKS, AMBULANCES (OBJECTS GREATER THAN 400 lbs [182 kg]) | 15.5 ft. [4.72 m] | 21.0 ft. [6.4 m] |
| BUSES AND TRUCKS (DUMP, TRACTOR TRAILER, UTILITY, FIRE TRUCKS) | 18.1 ft. [5.52 m] | 24.5 ft. [7.47 m] |



This drawing is based on Sketch No.: 8-198

PIM R7

GE Healthcare
IS Services Design Center
Milwaukee, Wisconsin

SHEET TITLE: EQUIPMENT LAYOUT
MODALITY TYPE: 1.5T SIGNA HDx - TYPE A
NO EQUIPMENT ROOM

THIS PLAN IS SUBMITTED TO SUGGEST LOCATION OF GE HEALTHCARE EQUIPMENT AND ASSOCIATED APPARATUS, ELECTRICAL WIRING DETAILS AND ROOM ARRANGEMENTS. GE HEALTHCARE DOES NOT WARRANT THE ACCURACY OF THIS DRAWING. IT IS NOT TO BE USED FOR ACTUAL CONSTRUCTION PURPOSES. HOWEVER, THE COMPANY CANNOT ACCEPT RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

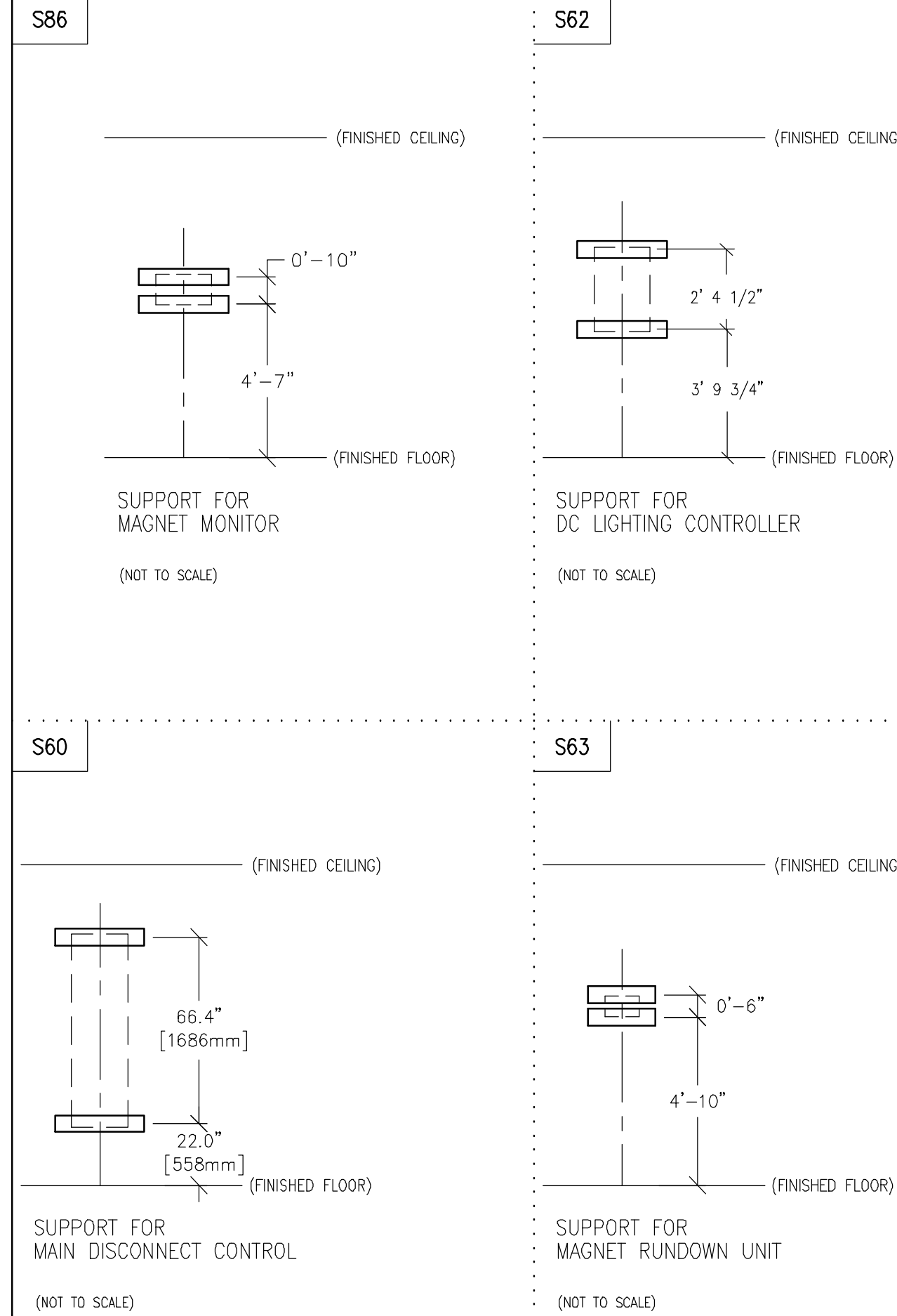
PROJECT TITLE:
TYPICAL MR MR TYPICAL DRAWINGS

PROJECT: 8-198F
REVISION: 03
DATE: 06.JAN.12
DRAWN BY: PMM
CHECKED BY: TMS

REVISION HISTORY:

SHEET A1

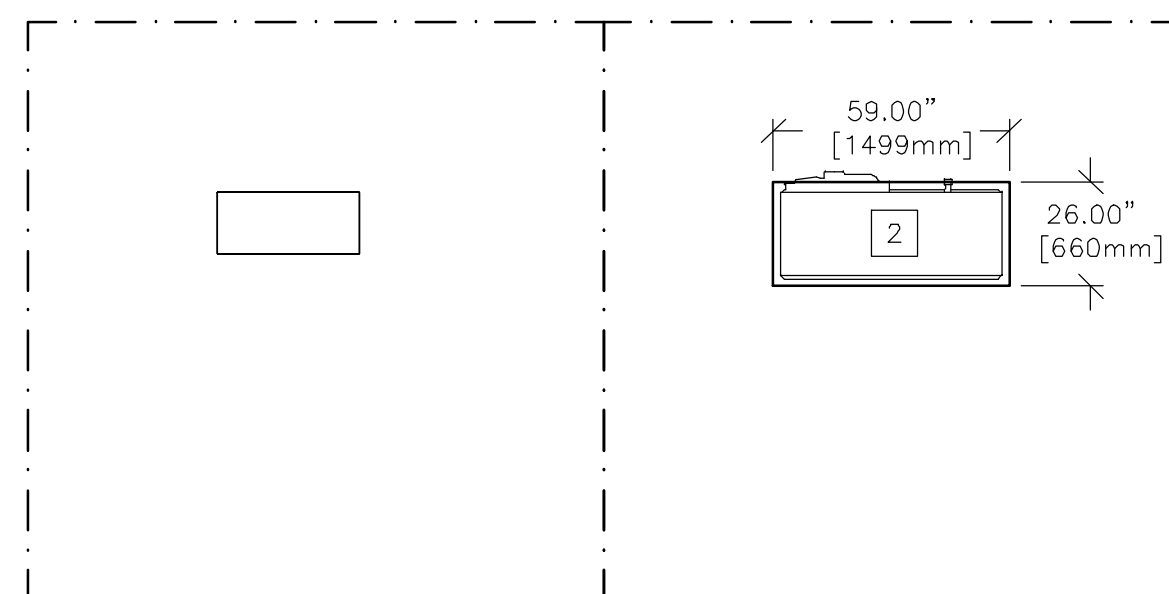
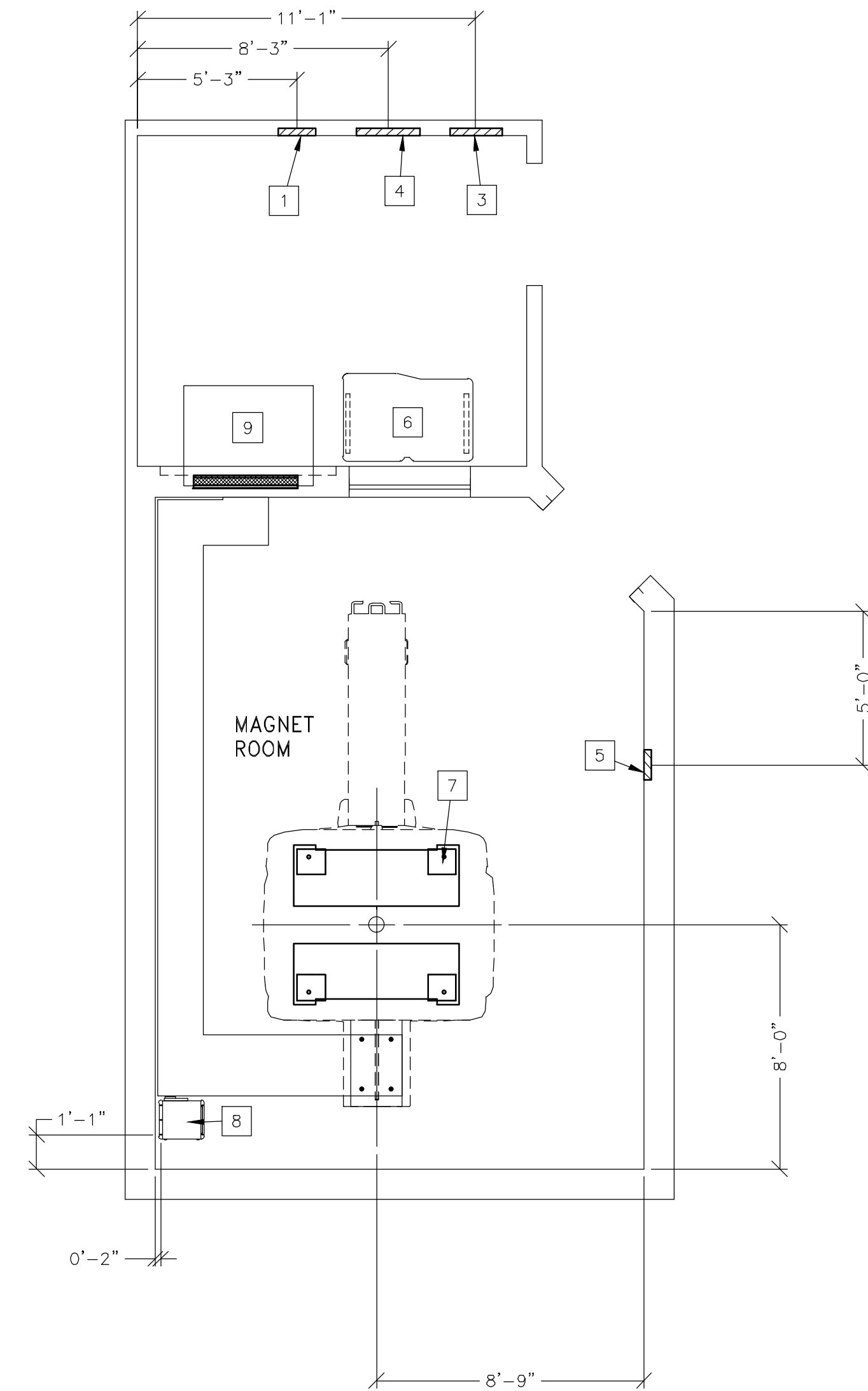
TYPICAL WALL SUPPORT ELEVATIONS



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

STRUCTURAL LAYOUT

RECOMMENDED CEILING HEIGHT = 8'-9"



STRUCTURAL SUPPORT METHODS

CUSTOMER/CONTRACTOR SUPPLIED AND INSTALLED ITEMS

ITEM NO.	ITEM DESCRIPTION (* INDICATES EXISTING)
1	SUPPORT BACKING, LOCATE AS SHOWN. REFER TO ELEVATION DETAIL S86, FOR MAGNET MONITOR.
2	26 IN. (660 MM) X 39 IN. (1000 MM) CONCRETE PAD WITH A MINIMUM 4 IN. (100 MM) DEPTH AND 3500 PSI IS REQUIRED FOR GROUND LEVEL INSTALLATION. ADDITIONAL CONCRETE DEPTH MAY BE REQUIRED BY LOCAL CODES. THE UNIT MAY ALSO BE ROOF MOUNTED. UNIT MUST BE MOUNTED ON A LEVEL AREA WITH A MAXIMUM DEVIATION ON THE LEVELNESS OF 3/8" OVER 10 FEET (10MM OVER 3050MM). FOR BOLT MOUNTING LOCATIONS SEE DETAIL M30-80T
3	SUPPORT BACKING, LOCATE AS SHOWN. REFER TO ELEVATION DETAIL S62, FOR DC LIGHTING CONTROL.
4	SUPPORT BACKING, LOCATE AS SHOWN. REFER TO ELEVATION DETAIL S60, FOR MAIN DISCONNECT CONTROL.
5	SUPPORT BACKING, LOCATE AS SHOWN. REFER TO ELEVATION DETAIL S63, FOR MAGNET RUNDOWN UNIT.
6	SEE DETAIL M615A2 ON SHEET S2 FOR FLOOR MOUNTING OF OPERATOR WORKSPACE.
7	MAGNET FLOOR MOUNTING. SEE DETAIL M6615A2 ON SHEET S2 FOR MORE INFORMATION.
8	FLOOR MOUNTING AREA FOR BLOWER BOX. SEE DETAIL M30-15 ON SHEET S2.
9	AREA OF FLOOR LEVELNESS FOR SYSTEMS CABINET. FLOOR SLOPE $\le 1/4\%$ DEG. FLOOR SURFACE $\pm 5MM$. FLOOR AREA MUST BE HARD.

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 INITIAL SITE PLANNING OF THE MR SUITE BY MINIMIZING THE VIBRATION ENVIRONMENT. SEE MOUNTING DETAIL 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 PROJECT MANAGER OF INSTALLATIONS.
- FLOOR LEVELNESS IN THE MAGNET ROOM SHOULD NOT EXCEED 0.3125 in. (8 mm) WHEN MEASURING BETWEEN DEPRESSIONS AND HIGH SPOTS OVER ANY 120 in. (3048 mm) DISTANCE WITHIN THE 87.5 in. (2178 mm) BY 139.3 in. (3539 mm) AREA OF THE MAGNET ENCLOSURE AND THE AREA IN FRONT OF THE ENCLOSURE. THIS FLOOR LEVELNESS REQUIREMENT IS IMPORATANT FOR ACCURATE PATIENT TABLE DOCKING.
- NON-MOVABLE STEEL SUCH AS WALL STUDS OR HVAC COMPONENTS WILL PRODUCE NEGLIGIBLE EFFECT ON THE ACTIVE SHIELD MAGNET.
- 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.
- CUSTOMERS CONTRACTOR TO PROVIDE AND INSTALL APPROPRIATE SUPPORTS FOR THE STORAGE OF EXCESS CABLES.
- 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"

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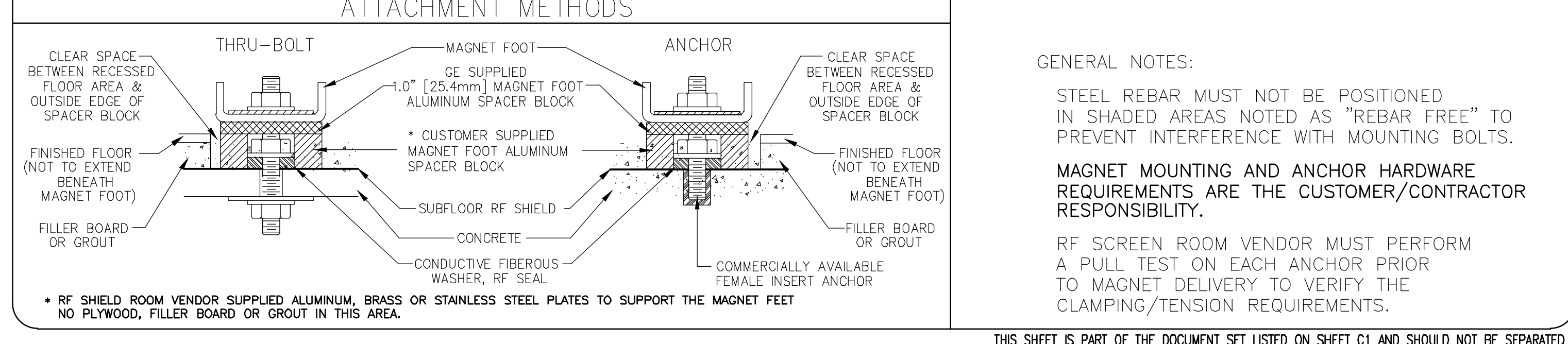
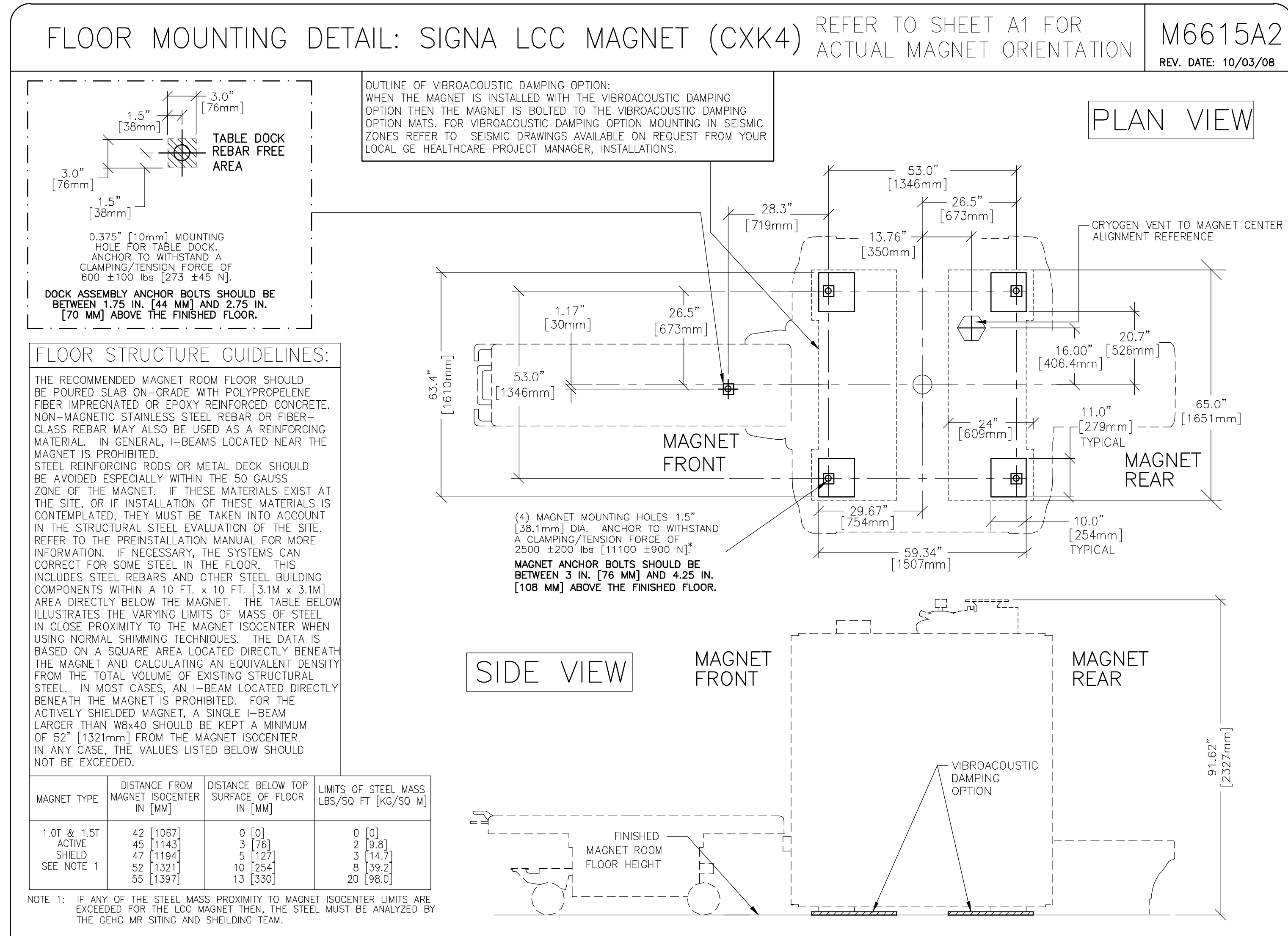
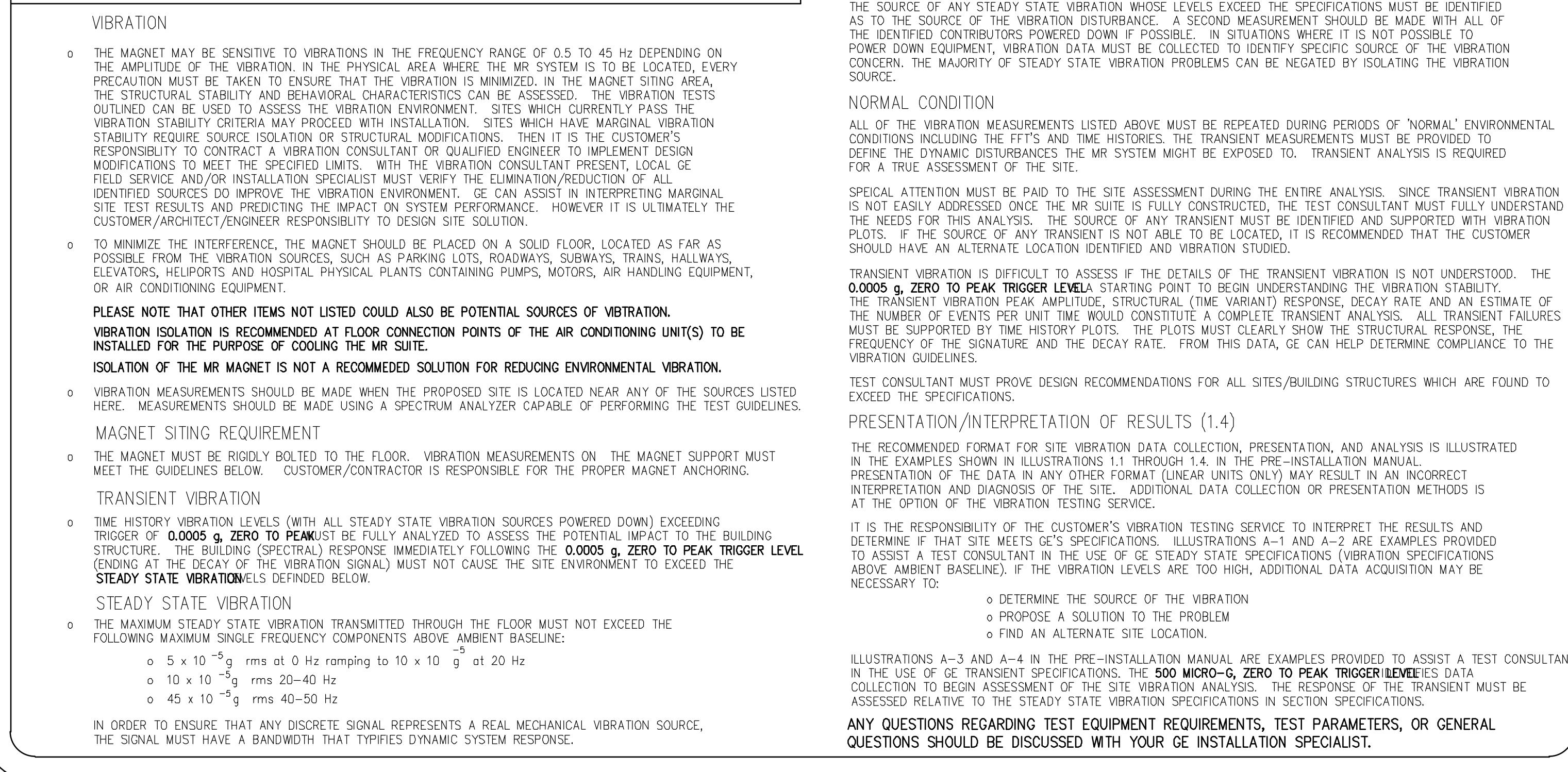
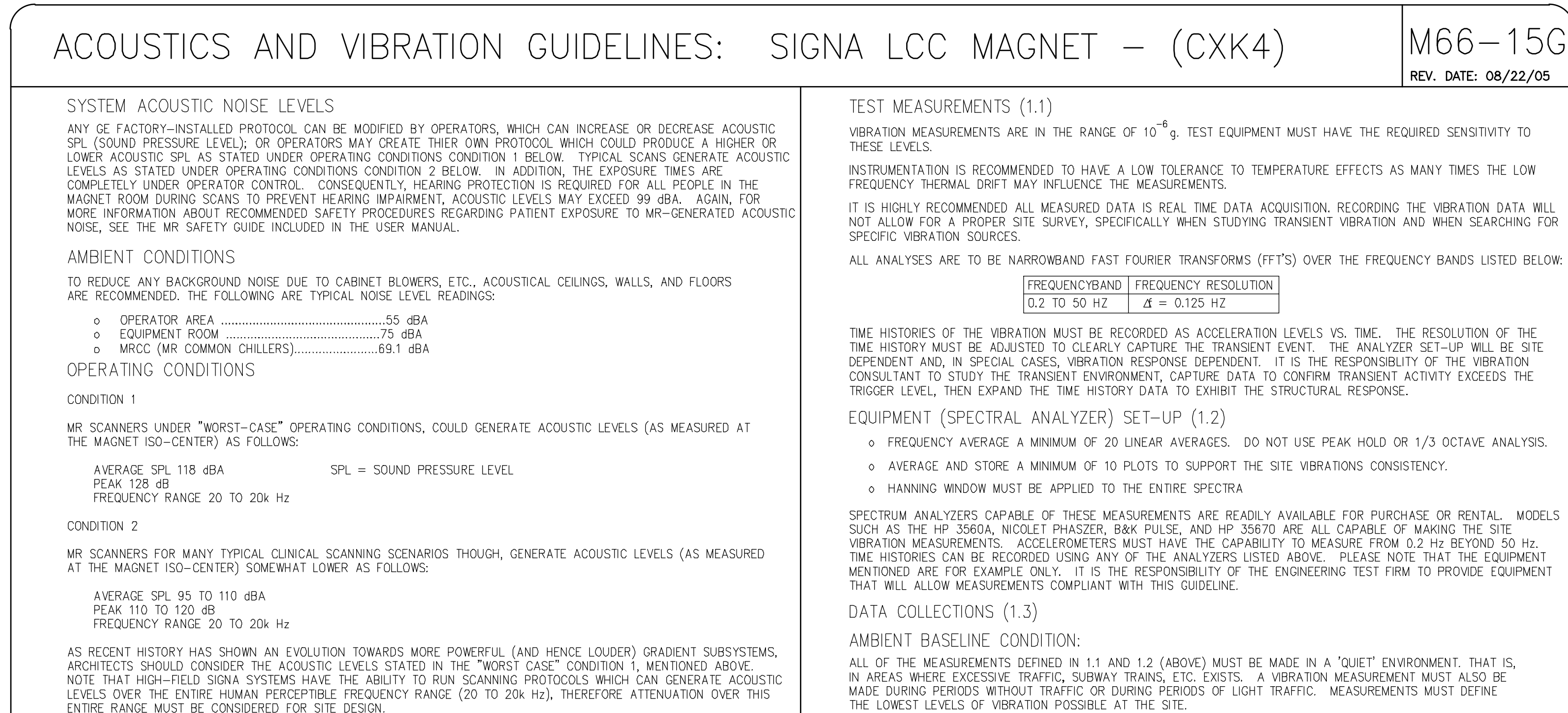
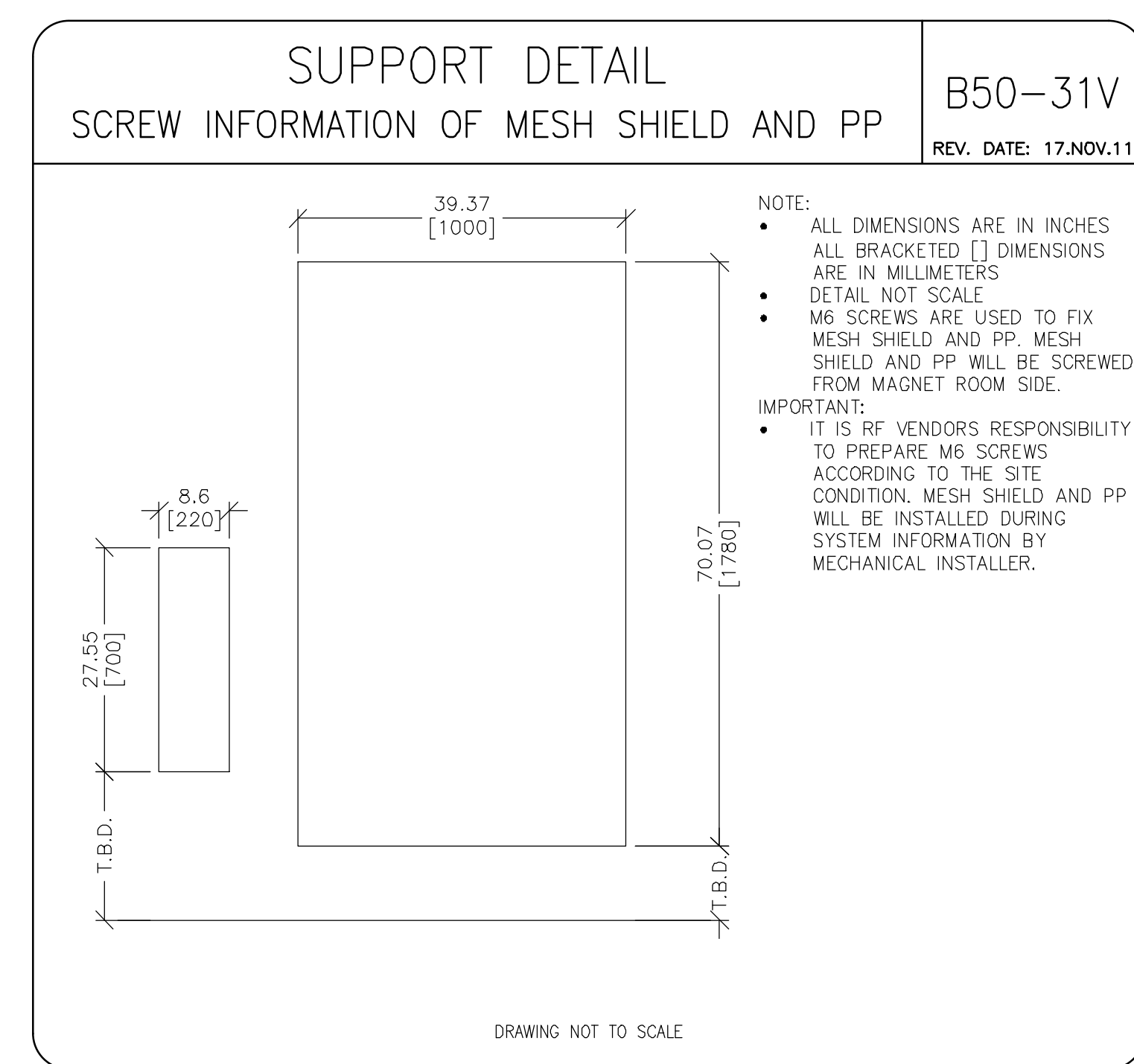
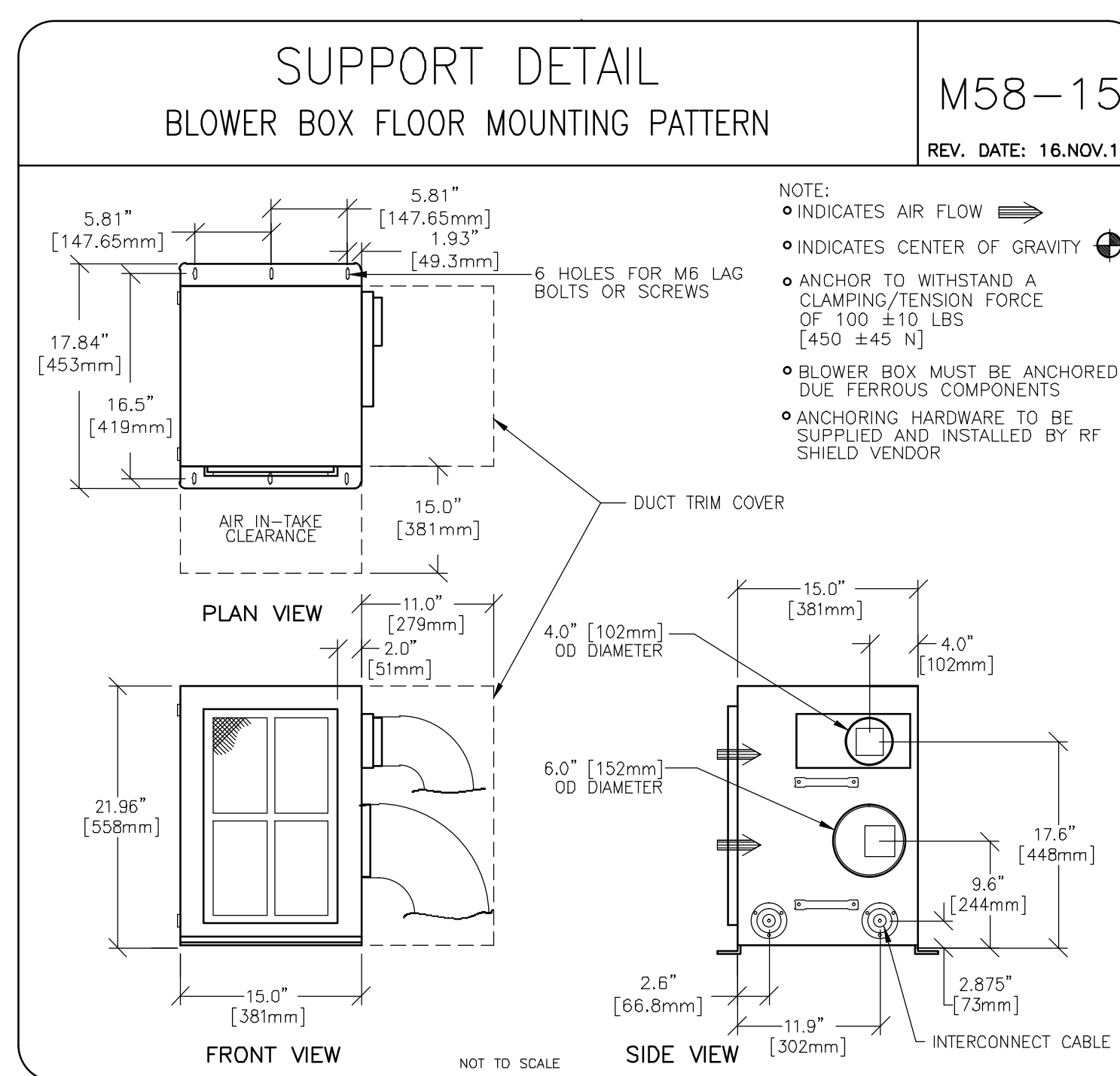
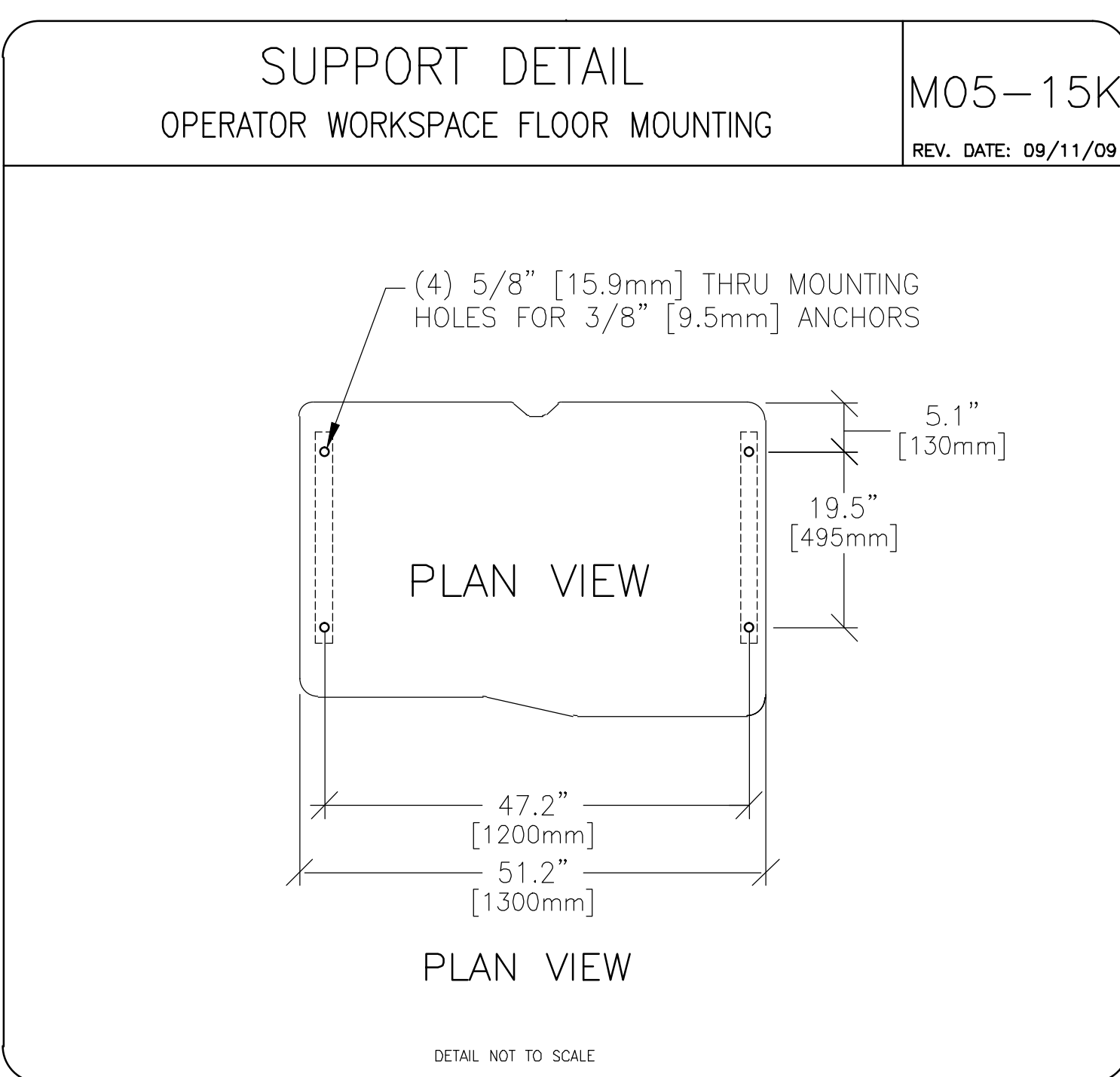
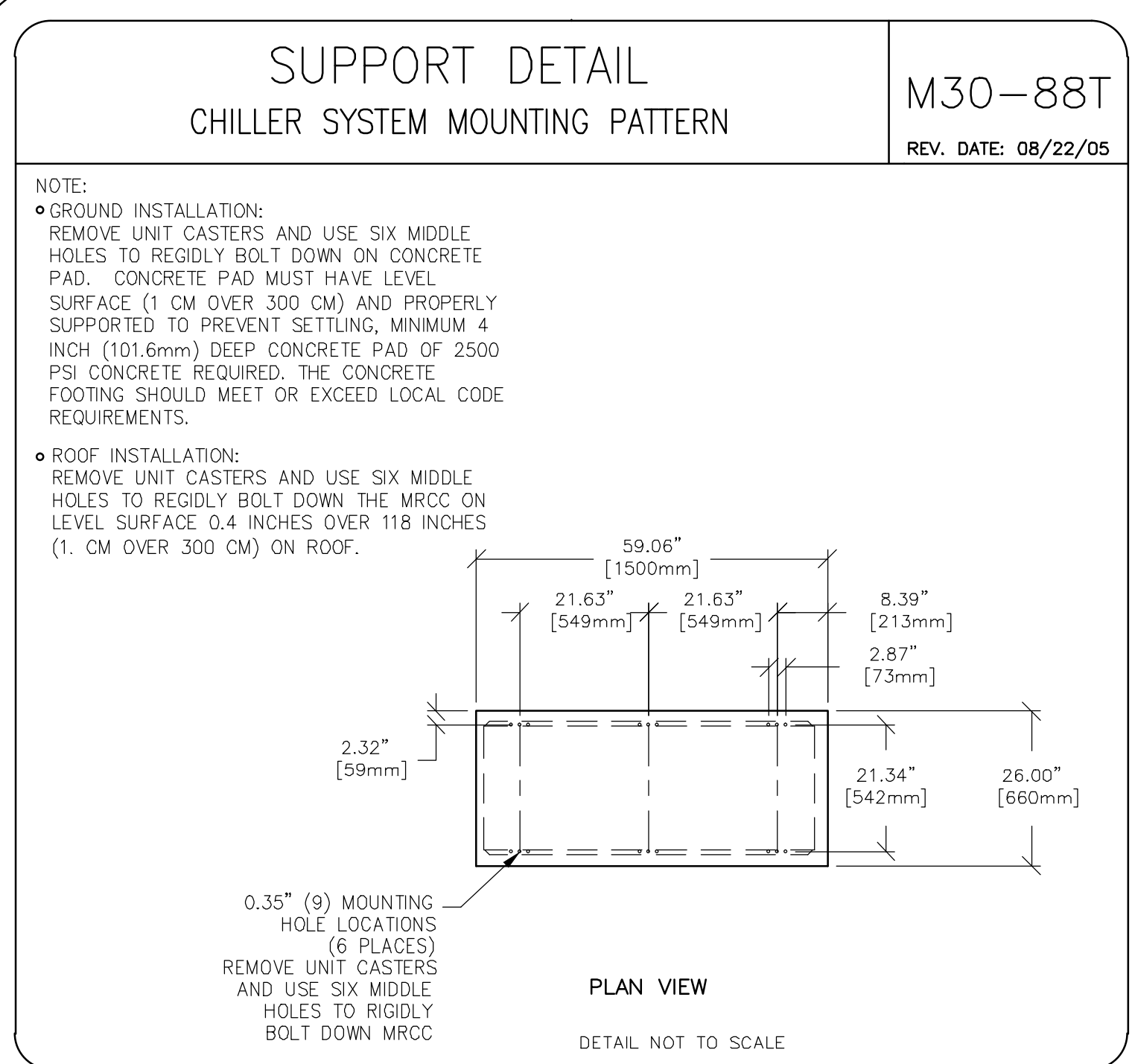
SHEET TITLE: STRUCTURAL LAYOUT
MODALITY TYPE: 1.5T SIGNA HD® - TYPE A
NO EQUIPMENT ROOM
THIS PLAN IS SUBMITTED TO SUGGEST LOCATION OF GE HEALTHCARE EQUIPMENT AND ASSOCIATED APPARATUS, ELECTRICAL WIRING DETAILS AND ROOM ARRANGEMENTS. THE CUSTOMER OR HIS CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL CONSTRUCTION PURPOSES, HOWEVER, AND THE COMPANY CANNOT ACCEPT RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:
TYPICAL MR DRAWINGS

PROJECT: 8-198F
REVISION: 03
DATE: 06.JAN.12
DRAWN BY: PMM
CHECKED BY: TMS

REVISION HISTORY:

SHEET S1



This drawing is based on Sketch No.: 8-198

PIM R7

TYPICAL MR TYPICAL DRAWINGS

SHEET TITLE: STRUCTURAL DETAILS
MODALITY TYPE: 1.5T SIGNA HD - TYPE A
NO EQUIPMENT ROOM

THIS PLAN IS SUBMITTED TO SUGGEST LOCATION OF GE HEALTHCARE EQUIPMENT AND ASSOCIATED APPARATUS, ELECTRICAL WIRING DETAILS AND ROOM ARRANGEMENTS. THE USER SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL NEW AND EXISTING ACTUAL EQUIPMENT TO BE INSTALLED. THIS DRAWING IS NOT TO BE USED FOR ACTUAL CONSTRUCTION PURPOSES. HOWEVER, AND THE COMPANY CANNOT ACCEPT RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT: 8-198F REVISION: 03

DATE: 06.JAN.12
DRAWN BY: PMM
CHECKED BY: TMS

REVISION HISTORY:

SHEET S2

GE Healthcare
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Milwaukee, Wisconsin

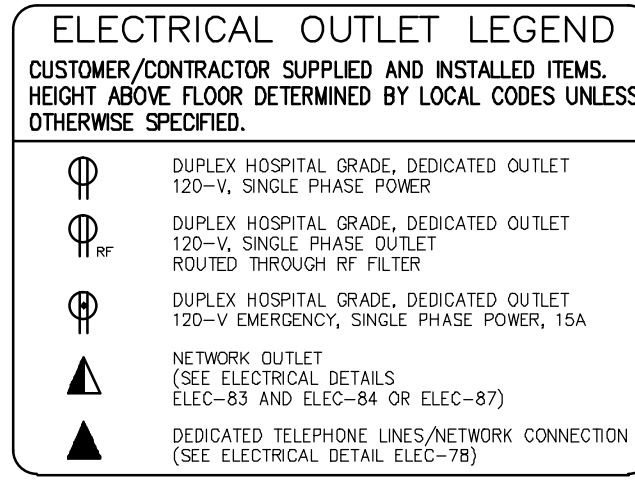
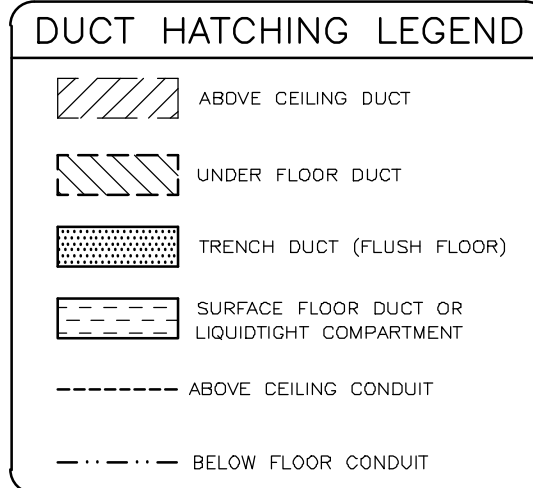
THIS SHEET IS PART OF THE DOCUMENT SET LISTED ON SHEET C1 AND SHOULD NOT BE SEPARATED

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

ELECTRICAL PLAN

RECOMMENDED CEILING HEIGHT = 8'-9"

JUNCTION POINT DESCRIPTIONS



FEEDER TABLE - SIGMA HDE (NO EQUIPMENT ROOM)

o CALCULATIONS BASED UPON NOMINAL VOLTAGE, WIRE SIZE IN AWG.
o RECOMMENDED FEEDER SIZES FROM DIST. TRANS. TO MDP, ALL CALCULATIONS BASED UPON A 20 FT. (6.1M) RUN FROM MDP TO PD USING NO.2 AWG (30 SQ MM).
o THE GROUNDING CONDUCTOR (G) SHALL BE COPPER AND WILL RUN IN THE SAME CONDUIT AS THE FEEDERS FROM EQUIPMENT BACK TO THE ROOM POWER SOURCE GROUNDING POINT.
o 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.
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.
o THE MAXIMUM POWER DEMAND FOR THE OUTDOOR MRCC WAS USED FOR THESE CALCULATIONS. IF SO DESIRED THE CUSTOMER'S CONTRACTOR CAN DETERMINE EXACT SIZES BASED UPON MAXIMUM DEMAND FOR THE COOLING SYSTEM TO BE INSTALLED FROM THE TABLE IN POWER SPECIFICATIONS.

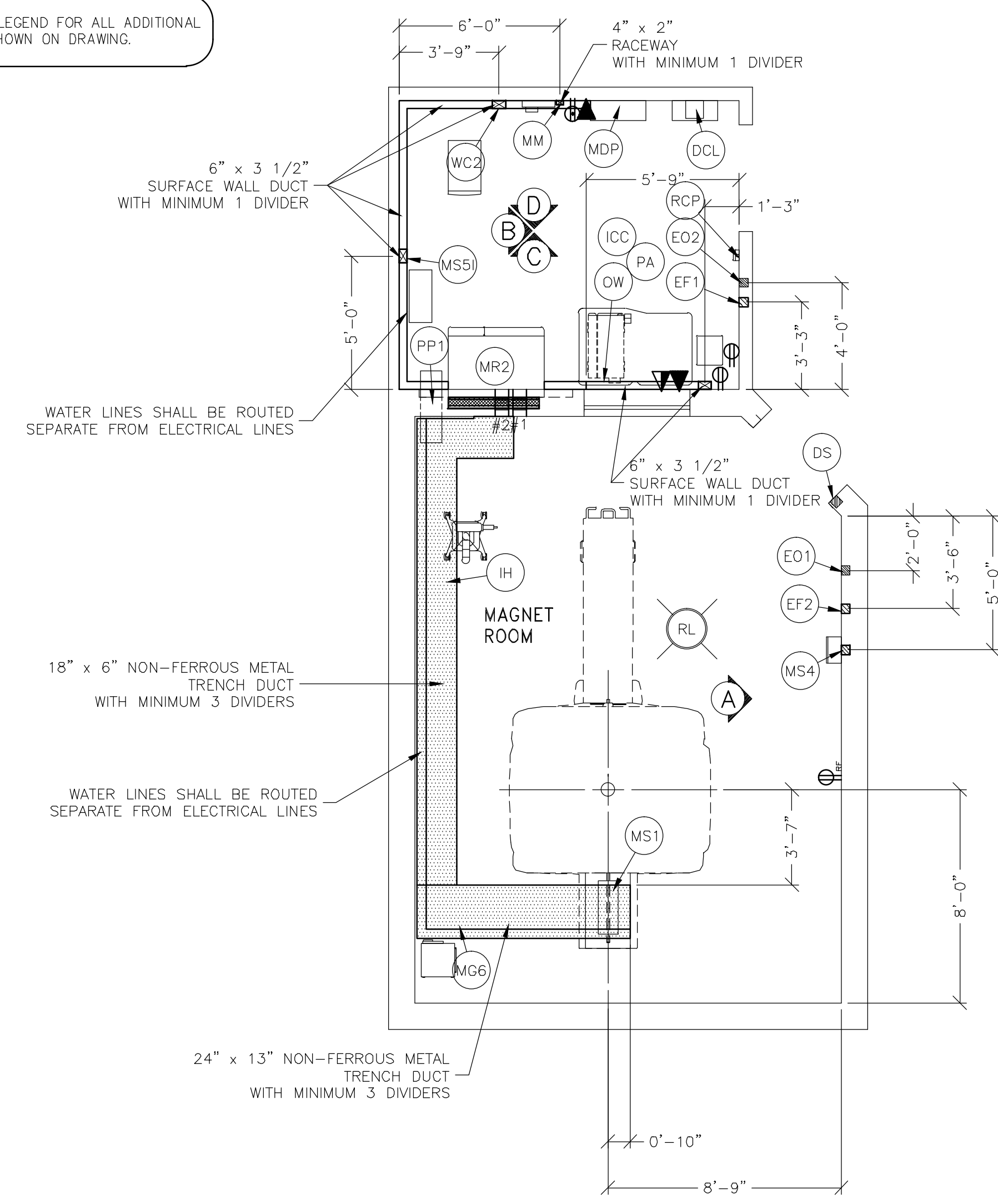
RUN LENGTH IN FEET	POWER SUPPLY VOLTAGE			
	342-418 380	360-440 400	374-456 415	432-528 480
	FEEDER	GROUND	FEEDER	GROUND
100	1/0	6	1/0	6
150	1/0	6	1/0	6
200	1/0	6	1/0	6
250	1/0	6	1/0	6
300	1/0	6	1/0	6
350	2/0	4	2/0	4
400	3/0	4	2/0	4
450	4/0	2	3/0	4

REV. DATE: 04/13/09

JUNCTION POINT NOTES

- o ALL JUNCTION BOXES, CONDUIT, DUCT, DUCT DIVIDERS, SWITCHES, CIRCUIT BREAKERS, ETC., ARE TO BE SUPPLIED AND INSTALLED BY CUSTOMER'S 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 CUSTOMER'S 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 THHN 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.

NOTE: REFER TO CONDUIT LEGEND FOR ALL ADDITIONAL CONDUITS NOT SHOWN ON DRAWING.

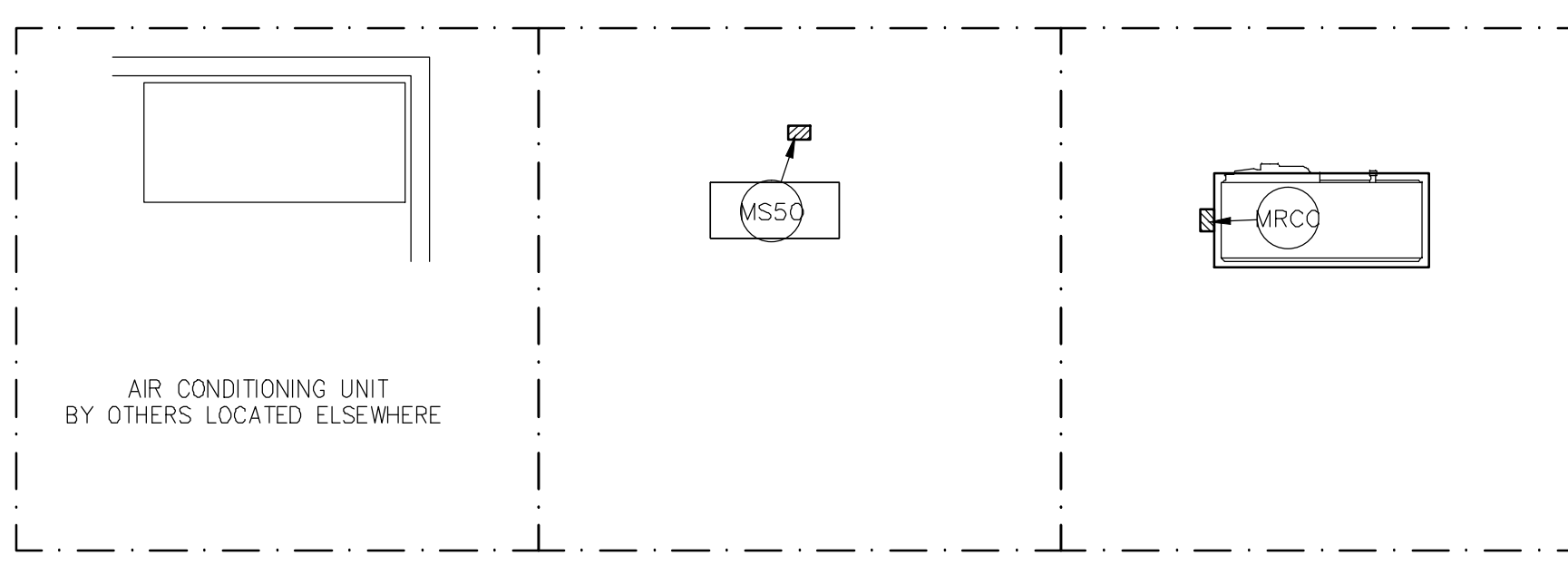


ADDITIONAL CONDUIT RUNS (CONTRACTOR SUPPLIED AND INSTALLED)

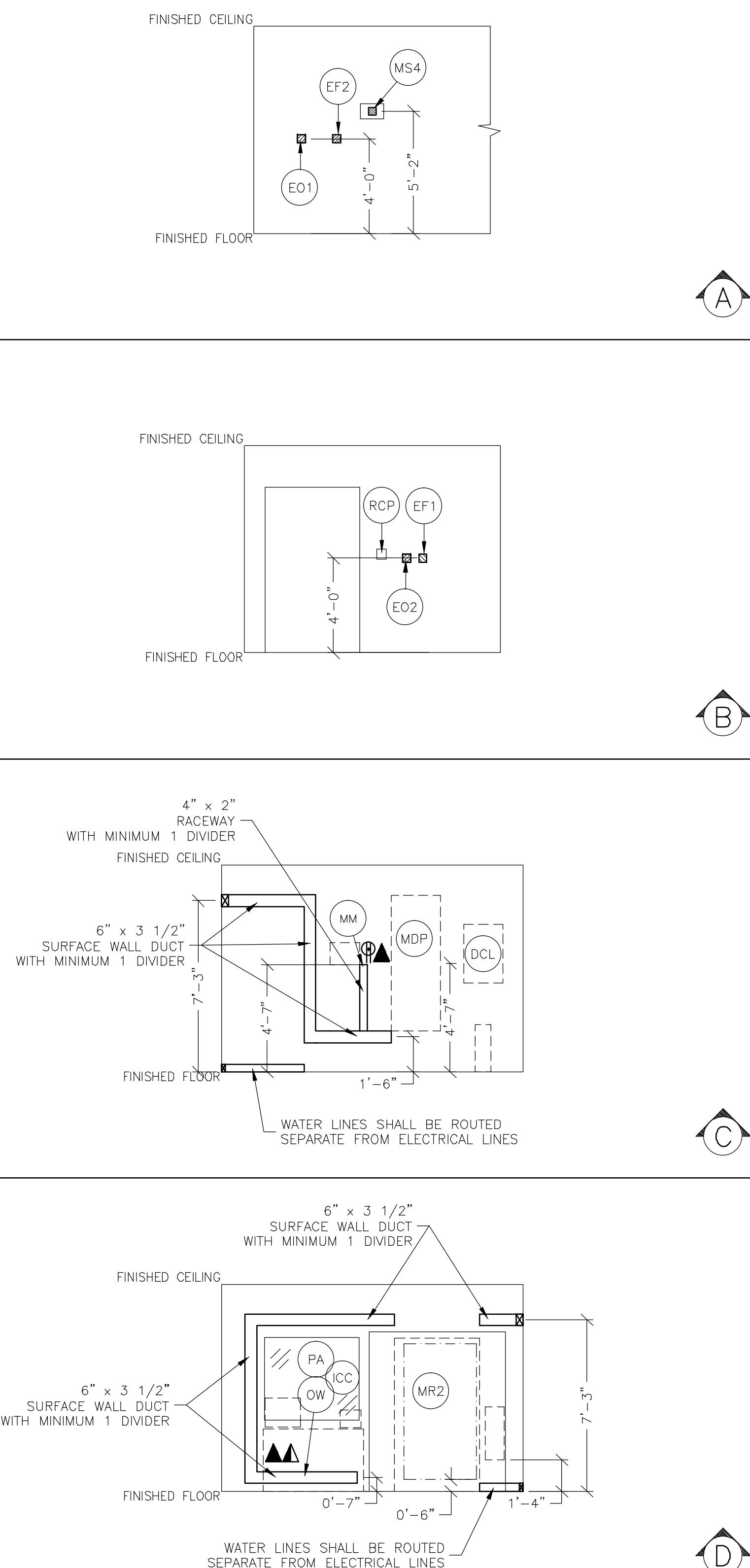
REV DATE: 10/01/08

CONDUITS REQUIRED FOR BASE SYSTEM	QUANTITY	WIRE SIZE/COLOR
MDP TO FEEDER	ONE CND. AS REQ'D	
MDP TO PD	ONE CND. AS REQ'D	
MDP TO E02	ONE 1/2" CND.	
MDP TO MR2	ONE 3/4" CND.	
MDP TO A/C	ONE 1/2" CND.	
MDP TO MRCC	ONE CND. AS REQ'D	
MRCC TO RCP	ONE 3/4" CND.	
DS TO MR2	ONE 3/4" CND.	
E01 TO MR2	ONE 3/4" CND.	
MS4 TO MR2	ONE 1" CND.	
MSS0 TO MSS1	THREE 1 1/2" CND.	
MS4 TO RF #1 FILTER	ONE CND. AS REQ'D	
RF #1 FILTER TO 120-V 1A POWER	CONDUIT AS REQ'D	
RL TO RF #2 FILTER	ONE CND. AS REQ'D	
RF #2 FILTER TO FACILITY EMERGENCY POWER	CONDUIT AS REQ'D	

NOTE: SEE E2 PAGE FOR STANDARD RUN LENGTHS



POINT	DESCRIPTION	QTY.	HARDWARE	DETAIL NO., SHT. E3
DCL	DC LIGHTING	1	SEE DETAILS AVAILABLE FROM GEMSG CALL 800-588-5102 OR LOCAL GE INSTALLATION PROJECT MGR.	ELEC-54
DS	RF DOOR SWITCH	1	SINGLE GANG BOX 24 VOLTS AND 750 MILLIAMPERES, NORMALLY OPEN (OFF) WHEN DOOR IS OPEN	ELEC-55
EF1	RF EXHAUST FAN SWITCH	1	COVERPLATE SINGLE GANG BOX SINGLE POLE SWITCH	ELEC-55
EF2	RF EXHAUST FAN SWITCH	1	COVERPLATE SINGLE GANG BOX SINGLE POLE SWITCH	ELEC-16
E01	EMERGENCY OFF BUTTON	1	SINGLE GANG BOX	ELEC-16
E02	EMERGENCY OFF BUTTON	1	SINGLE GANG BOX	
ICC	INJECTOR DISPLAY	1	SAME ROUTING AS DW	
IH	INJECTOR HEAD	1	12 IN. OF GROMMET MATERIAL FOR A 3 X 3 IN. OPENING IN ACCESS FLOOR OR DUCT	ELEC-10 ELEC-17 ELEC-154
MDP	MAIN DISCONNECT AVAILABLE FROM GEMSG CALL 800-588-5102 OR LOCAL GE INSTALLATION PROJECT MGR.	1	12 IN. GROMMET MATERIAL FOR OPENING IN DUCT OR ACCESS FLOOR 3-POLE ABOVE DEVICE IN NEMA 1 ENCLOSURE, GEMSG CAT. NO. M3088TM. TWO PUSHBUTTONS AND COVERS INCLUDED.	
MGG	BLOWER BOX	1	40 IN. OF GROMMET MATERIAL FOR A 12 X 8 IN. OPENING IN DUCT COVER	ELEC-3
MM	MAGNET MONITOR	1	FITTINGS AS REQUIRED	ELEC-78
MR2	SYSTEM CONTROL CABINET	1	32 IN. OF GROMMET MATERIAL FOR AN 8 X 8 IN. OPENING IN DUCT COVER	ELEC-5
MRCC	COOLING SYSTEM	1	COVERPLATE 6 X 6 X 4 IN. BOX 10 FT. LENGTH OF 3/4 IN. DIA. FLEXIBLE METAL CONDUIT 3/4 IN. DIA. BUSHING & LOCKNUT 1 SAFETY SWITCH (IF REQUIRED)	ELEC-8
MS1	MAGNET	1	66 IN. OF GROMMET MATERIAL FOR A 24 X 9 IN. OPENING IN DUCT.	ELEC-3
MS4	MAGNET RUNDOWN UNIT	1	COVERPLATE WITH 1 IN. KNOCKOUT IN CENTER 4 X 4 X 4 IN. BOX	ELEC-8
MSS1	ABSORBER	1	EXTERNALLY CONNECTED	
MSS0	SHIELD COOLER COMPRESSOR	1	COVERPLATE 6 X 6 X 4 IN. BOX 10 FT. LENGTH OF 3/4 IN. DIA. FLEXIBLE METAL CONDUIT 3/4 IN. DIA. BUSHING & LOCKNUT 1 SAFETY SWITCH (IF REQUIRED)	ELEC-8
DW	OPERATOR WORKSPACE	1	12 IN. OF GROMMET MATERIAL FOR A 3 X 3 IN. OPENING IN DUCT COVER	ELEC-5
PA	PATIENT ALERT CONTROL BOX	1	SAME ROUTING AS DW	
PP1	PENETRATION PANEL	1	GROMMET MATERIAL	
RCP	REMOTE CONTROL FOR CHILLER SYSTEM	1	CONNECT TO CONDUIT USING PROVIDED CONNECTION	
RL	MAGNET ROOM LIGHTS	1	LOCKNUT BOX AS REQUIRED INCANDESCENT LIGHT FIXTURE	
WC2	COOLING UNIT	1	12 IN. OF GROMMET MATERIAL FOR A 3 X 3 IN. OPENING IN DUCT COVER	ELEC-5 ELEC-6



GE Healthcare
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Milwaukee, Wisconsin

SHEET TITLE: ELECTRICAL LAYOUT
MODALITY TYPE: 1.5T SIGMA HDe - TYPE A
NO EQUIPMENT ROOM

THIS PLAN IS SUBMITTED TO SUGGEST LOCATION OF GE HEALTHCARE EQUIPMENT AND ASSOCIATED APPARATUS, ELECTRICAL WIRING DETAILS AND ROOM ARRANGEMENTS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS OF THE SITE TO ACTUAL EQUIPMENT TO BE INSTALLED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE: TYPICAL MR TYPICAL DRAWINGS

PROJECT: 8-198F REVISION: 03
DATE: 06.JAN.12
DRAWN BY: PMM
CHECKED BY: TMS

REVISION HISTORY:

SHEET E1

ELECTRICAL DETAIL HORIZONTAL WALL DUCT (TYPICAL)

ELEC-5
REV. DATE: 03/19/04

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

DETAIL NOT TO SCALE

ELECTRICAL DETAIL MAGNET MONITOR/INSITE CONNECTION

ELEC-78
REV. DATE: 04/24/01

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) MSM4 (UPS SYSTEM) IF PRESENT

DATA LINE → DATA LINE → **MAGNET MONITOR**

VOICE LINE → **OPERATORS WORKSPACE**

INTERNET ACCESSIBLE VIRTUAL PRIVATE NETWORK (VPN) CONNECTION WITH STATIC IP ADDRESS

B) MSM4 (UPS SYSTEM) IF PRESENT

DATA LINE → DATA LINE → DATA LINE → **MAGNET MONITOR**

MULTIPLEXER (MUX BOX) [PART NO. 46-328475P1] → VOICE LINE → DATA LINE → **OPERATORS WORKSPACE**

TWO TELEPHONE LINES AND ONE INTERNET ACCESSIBLE VIRTUAL PRIVATE NETWORK (VPN) CONNECTION WITH STATIC IP ADDRESS FOR INSTALLATION AND SERVICEABILITY PURPOSES. ONE LINE MUST BE A DEDICATED VOICE-GRADE TYPE AND ONE DATA LINE. TELEPHONE LINES ARE TO BE PROVIDED AND PAID FOR BY THE CUSTOMER.

TWO TELEPHONE LINES FOR INSTALLATION AND SERVICEABILITY PURPOSES. ONE LINE MUST BE A DEDICATED VOICE-GRADE TYPE AND ONE DATA LINE. TELEPHONE LINES ARE TO BE PROVIDED AND PAID FOR BY THE CUSTOMER.

IN LIEU OF A MULTIPLEXER THE CUSTOMER MAY PROVIDE AN ADDITIONAL DATA LINE.

ALL ITEMS ILLUSTRATED ARE TO BE FURNISHED AND INSTALLED BY CUSTOMER OR THEIR CONTRACTOR (EXCEPT MAGNET MONITOR)

DETAIL NOT TO SCALE

ELECTRICAL DETAIL BOX WITH COVERPLATE (TYPICAL)

ELEC-8
REV. DATE: 09/30/94

DETAIL NOT TO SCALE

ELECTRICAL DETAIL DC LIGHTING CONTROLLER SYSTEM DIAGRAM

ELEC-54
REV. DATE: 08/22/05

DETAIL NOT TO SCALE

ELECTRICAL DETAIL EMERGENCY OFF BUTTON

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

DETAIL NOT TO SCALE

ELECTRICAL DETAIL TYPICAL MAGNET ROOM GROUNDING

ELEC-178
REV. DATE: 15.NOV.11

- ALL ITEMS SHOWN ARE CUSTOMER SUPPLIED EXCEPT SYSTEM CABINET, MAGNET, AND #1/0 AWG GROUND WIRE BETWEEN SYSTEM CABINET GROUND STUD AND MAGNET GROUND STUD.
- RESISTANCE BETWEEN ANY TWO GROUNDED DEVICES MUST NOT EXCEED 0.1 ohm TO ENSURE EQUAL GROUND SYSTEM WITHIN THE MAGNET ROOM.
- RF POWER FILTERS OVER 30 volts MUST BE LOCATED WITHIN 40 in. (1016mm) OF THE RF COMMON GROUND STUD.
- RF POWER FILTERS OF 30 volts OR LESS MAY BE LOCATED ANYWHERE ON THE RF SHIELD.
- ALL METALLIC PIPES (INCLUDING WATER, MEDICAL GAS, SPRINKLERS, ETC.) ENTERING THE RF SHIELD, EXCLUDING THE CRYOGENIC VENT AND FLOOR DRAINS, MUST BE LOCATED WITHIN 56 in. (1422mm) OF THE RF COMMON GROUND STUD.
- ALL ELECTRICAL DEVICES (e.g., OUTLETS, LIGHT FIXTURES, ETC.) MUST HAVE A GROUND WIRE FROM DEVICE POWER SOURCE AND BE GROUNDED TO THE RF SHIELD AT THE RF COMMON GROUND STUD.
- ONE #1/0 AWG GROUND WIRE TO BE CONNECTED TO ONLY ONE GROUND STUD ON MAGNET FOOT OR CRYOSTAT.
- DO NOT GROUND NON-MR EQUIPMENT TO THE MR GROUND SYSTEM.
- THE ILLUSTRATION SHOWS A TYPICAL GROUND LAYOUT.

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

DETAIL NOT TO SCALE

ELECTRICAL DETAIL PROTECTIVE DISCONNECT SETUP

ELEC-154
REV. DATE: 04/02/09

NOTES: RUNS 296 AND 297, & POWER CORDS FOR SHIELD/CRYO COOLER COMPRESSOR CABINET, MRCC, & MAGNET MONITOR EQUIPMENT (MAGNET MONITOR, UPS INPUT & OUTPUT, MODEM, OPTIONAL MULTIPLEXER) ARE GE SUPPLIED CABLES. ALL OTHER WIRING IS CUSTOMER SUPPLIED.

TWO REMOTE EMERGENCY "OFF" BUTTONS ARE SUPPLIED WITH GE MDP OPTION. EMERGENCY OFF BUTTONS ARE CUSTOMER SUPPLIED IF GE MDP OPTION NOT USED.

CIRCUIT BREAKERS ARE PROVIDED FOR PDU, CRYO COOLER COMPRESSOR CHILLER, GRADIENT CHILLER, SHIELD/CRYO COOLER COMPRESSOR CABINET, & MAGNET MONITOR EQUIPMENT CIRCUITS.

ALL BRANCH CIRCUITS DROP OUT ON LOSS OF POWER. COLDHEAD MRCC, GRADIENT MRCC, SHIELD/CRYO COOLER COMPRESSOR CABINET, & MAGNET MONITOR EQUIPMENT AUTOMATICALLY RESTART AFTER 3 SEC TIME DELAY UPON RESTORATION OF POWER. EMERGENCY OFF LOCKS OUT ALL CONTACTORS.

IF 3 PHASE WYE WITH NEUTRAL AND GROUND (5 WIRE SYSTEM) INPUT USED THEN NEUTRAL MUST BE TERMINATED INSIDE THE MAIN DISCONNECT PANEL AND NOT BROUGHT TO THE POWER CABINET.

SUPERVISORY CIRCUIT FOR HVAC INTERLOCK CONTACTS OPEN ON LOSS OF DC POWER OR EMERGENCY OFF POSITION.

DETAIL NOT TO SCALE

ELECTRICAL DETAIL VERTICAL WALL DUCT (TYPICAL)

ELEC-6
REV. DATE: 03/19/04

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

DETAIL NOT TO SCALE

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

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

DETAIL NOT TO SCALE

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 SCREEN ROOM EXHAUST FAN SET-UP

ELEC-55
REV. DATE: 03/18/05

DETAIL NOT TO SCALE

PROJECT TITLE: **ELECTRICAL DETAILS**
MODALITY TYPE: **1.5T SIGMA HD₀ - TYPE A**
NO EQUIPMENT ROOM

THIS PLAN IS SUBMITTED TO SUGGEST LOCATION OF GE HEALTHCARE EQUIPMENT AND ASSOCIATED APPARATUS, ELECTRICAL WIRING DETAILS AND ROOM ARRANGEMENTS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS OF THE ROOMS TO BE INSTALLED. GE HEALTHCARE SHALL NOT BE RESPONSIBLE FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT: **8-198F** REVISION: **03**
DATE: **06.JAN.12**
DRAWN BY: **PMM**
CHECKED BY: **TMS**

REVISION HISTORY:

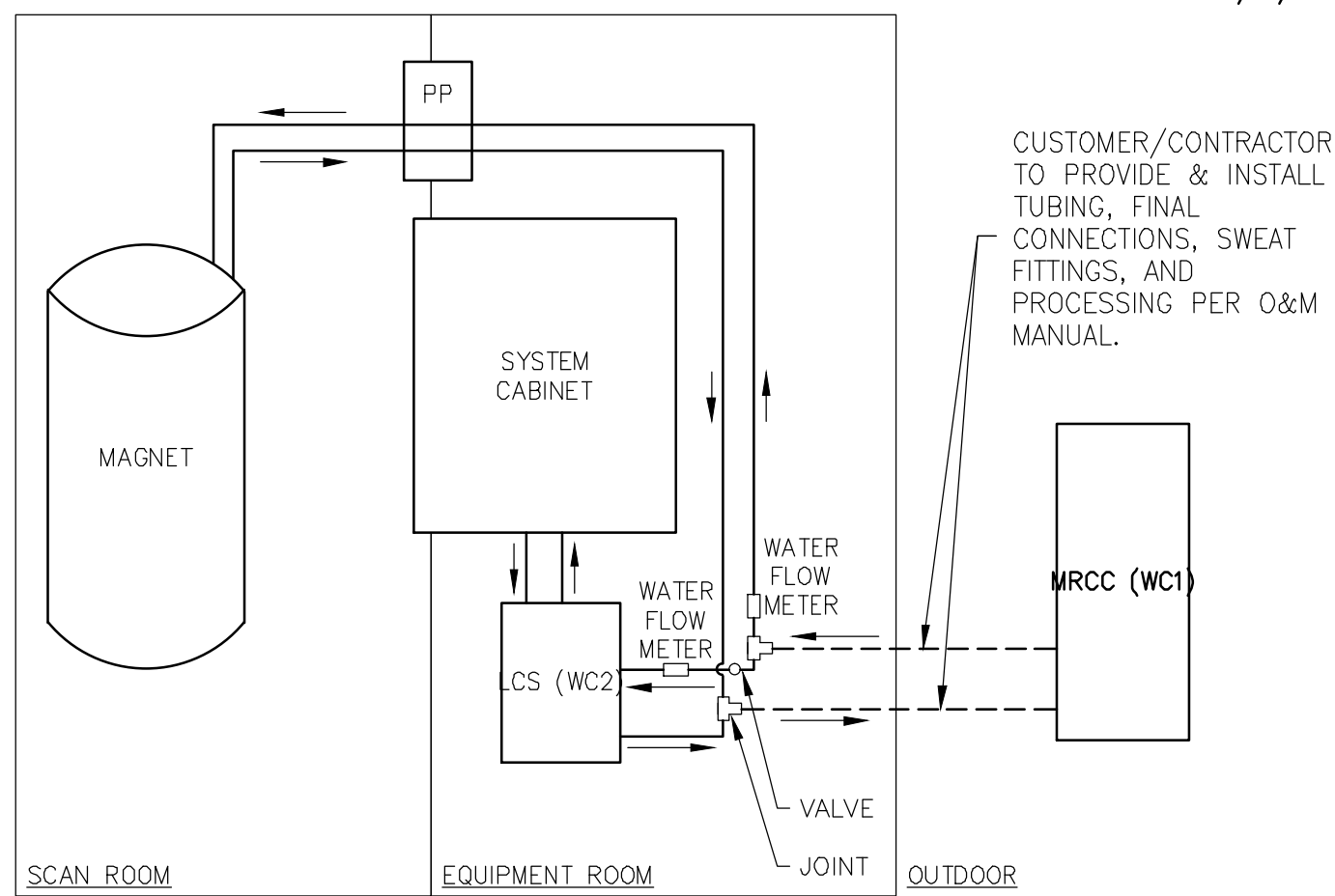
SHEET **E3**

GE Healthcare
IS Services Design Center
Milwaukee, Wisconsin

SYSTEM CHILLER PIPING

MECH-40

REV. DATE: 04/03/09



CUSTOMER/CONTRACTOR TO PROVIDE & INSTALL TUBING, FINAL CONNECTIONS, SWEAT FITTINGS, AND PROCESSING PER O&M MANUAL.

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

MECHANICAL/PLUMBING LAYOUT

RECOMMENDED CEILING HEIGHT = 8'-9"

MECHANICAL/PLUMBING ITEMS

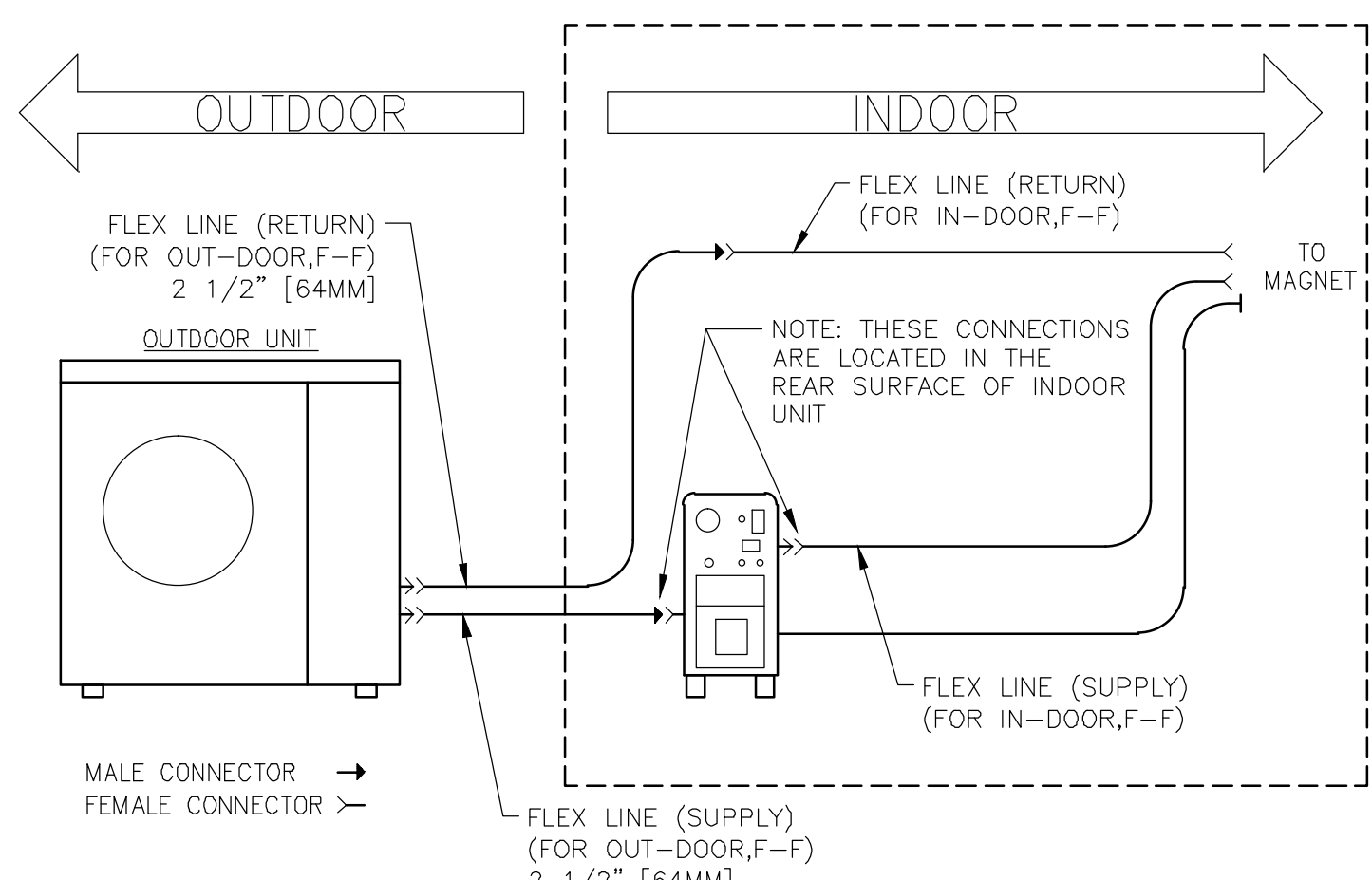
CUSTOMER/CONTRACTOR SUPPLIED AND INSTALLED ITEMS

- | ITEM NO. | ITEM DESCRIPTION
(* INDICATES EXISTING) |
|----------|--|
| 1 | CUSTOMER/CONTRACTOR RESPONSIBLE FOR RIGGING AND INSTALLATION OF SYSTEM COOLING CABINET.
THERE IS A MAXIMUM OF 100 FEET (30.5 M) VERTICAL DIFFERENCE ABOVE AND 10 FEET (3.05 M) BELOW BETWEEN THE OUTDOOR COOLER CABINET (MRCC) AND THE CRYO COMPRESSOR. A TOTAL MAXIMUM DISTANCE OF 800 FEET (244 M) EXISTS BETWEEN THE OUTDOOR CHILLER CABINET (MRCC) AND CRYO COMPRESSOR OR THE MAGNET.
PLEASE REFER TO THE PRE-INSTALLATION MANUAL FOR COMPLETE SITE PREPARATION REQUIREMENTS.
REFER TO PRE-INSTALLATION MANUAL FOR CONNECTIONS. REFER TO DETAIL MECH-44.
REFER TO PRE-INSTALLATION MANUAL LISTED ON SHEET C1 FOR CRYOGEN VENT REQUIREMENTS.
SEE SHEET S-2 FOR CRYOGEN VENT LOCATION.
8" (203 mm) CRYOGEN VENT - TOLERANCE FOR VENT LOCATION +/- 0.25" (6 mm). SEE DETAILS MECH-04 AND MECH-01.
THE CUSTOMER'S DESIGNER IS RESPONSIBLE FOR SELECTING VENT MATERIALS AND HARDWARE CAPABLE OF SAFELY HANDLING THE PRESSURES AND COLD TEMPERATURE GENERATED WITHIN THE VENT AT EACH MR1 SITE.
THE CUSTOMER'S CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING THE CRYOGEN VENT FROM THE MAGNET VENT ADAPTER TO THE BUILDING'S EXTERIOR.
FOR NON-STANDARD VENT CONFIGURATIONS (I.E. OFFSET CEILING EXITS, WALL EXITS, AND GEODESIC DOMES) THE CUSTOMER'S CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF THE CRYOGENIC VENT SYSTEM AND VENT SUPPORTS WITHIN THE MAGNET ROOM.
MINIMUM CEILING HEIGHT REQUIREMENT AREA REFER TO MAGNET EQUIPMENT DETAILS FOR MORE INFORMATION.
MINIMUM 2 FT. x 2 FT. (0.61m x 0.61m) PRESSURE EQUALIZING WAVEGUIDE VENT IN THE MAGNET ROOM CEILING.
TWO (2) 3/4 IN. (19MM) COPPER LINES (INSULATED).
FOUR (4) 3/4 IN. (19MM) HOSE BARBS.
FOUR (4) 3/4 IN. (19MM) BALL VALVES.
TWO (2) 3/4 IN. (19MM) TO 1/2 IN. (13MM) REDUCERS.
ONE (1) 150 MICRON FILTER.
TWO (2) SHUT OFF VALVES.
ONE (1) BY-PASS VALVE.
REFER TO DETAIL MECH-40.
PLEASE REFER TO THE PRE-INSTALLATION MANUAL FOR COMPLETE FACILITY WATER REQUIREMENTS. |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |
| 7 | EXHAUST FAN AND AIR INLET MUST BE SIZED FOR A MINIMUM OF 1800 CFM (34 M ³ /MINUTE) AND A MINIMUM OF 18 AIR EXCHANGES PER HOUR. SEE DETAIL ELEC-55 ON THE ELECTRICAL DETAIL SHEET(S).
MAGNET ROOM EXHAUST FAN INTAKE VENT MUST BE LOCATED AT THE HIGHEST CEILING PLANE NEAR THE MAGNET CRYOGEN VENT. |

OUTDOOR SHIELD COOLER COMPRESSOR WIRING DIAGRAM

MECH-44

REV. DATE: 04/03/09

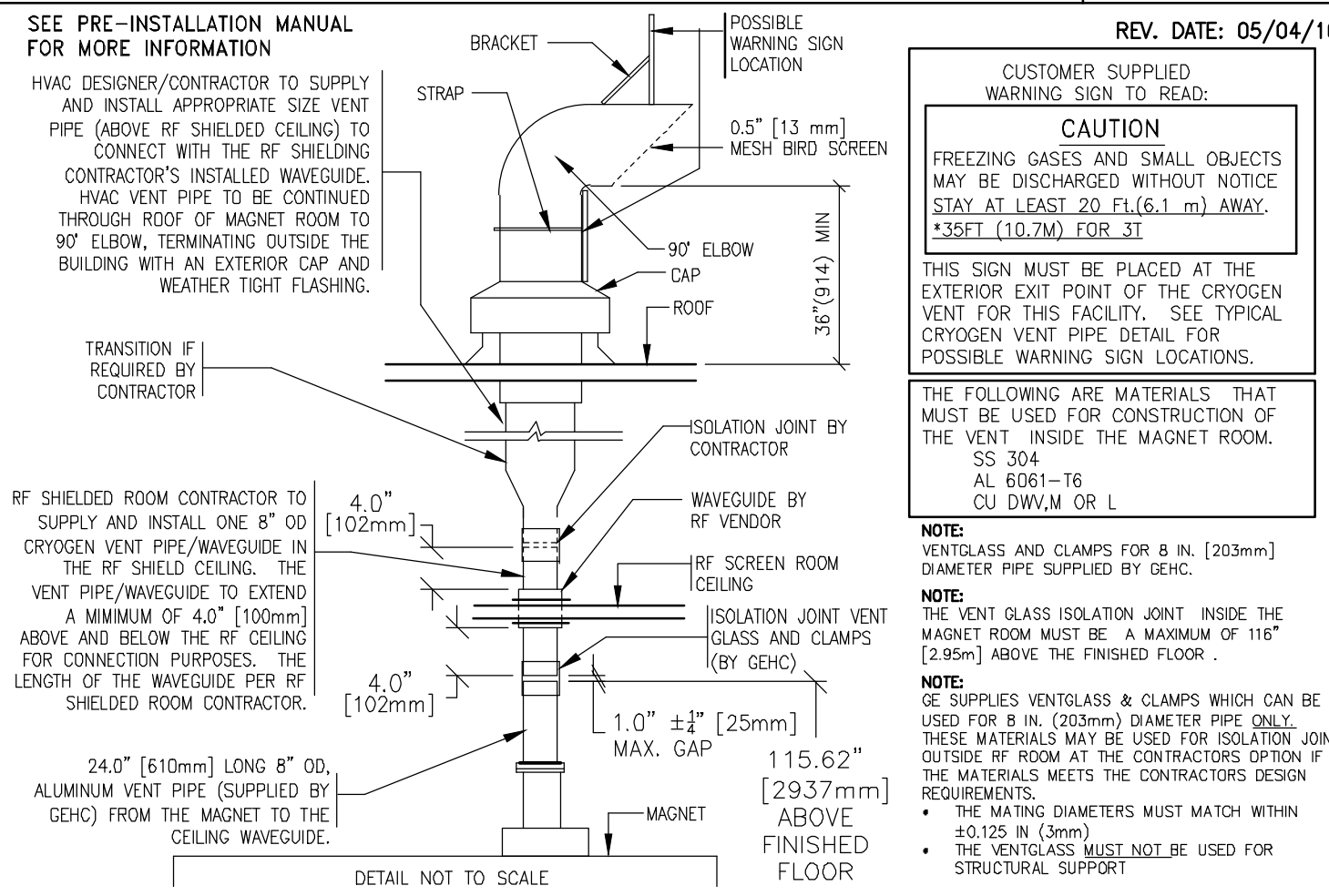


NOTE: THESE CONNECTIONS ARE LOCATED IN THE REAR SURFACE OF INDOOR UNIT

TYPICAL CRYOGEN VENT PIPE DETAIL

MECH-01

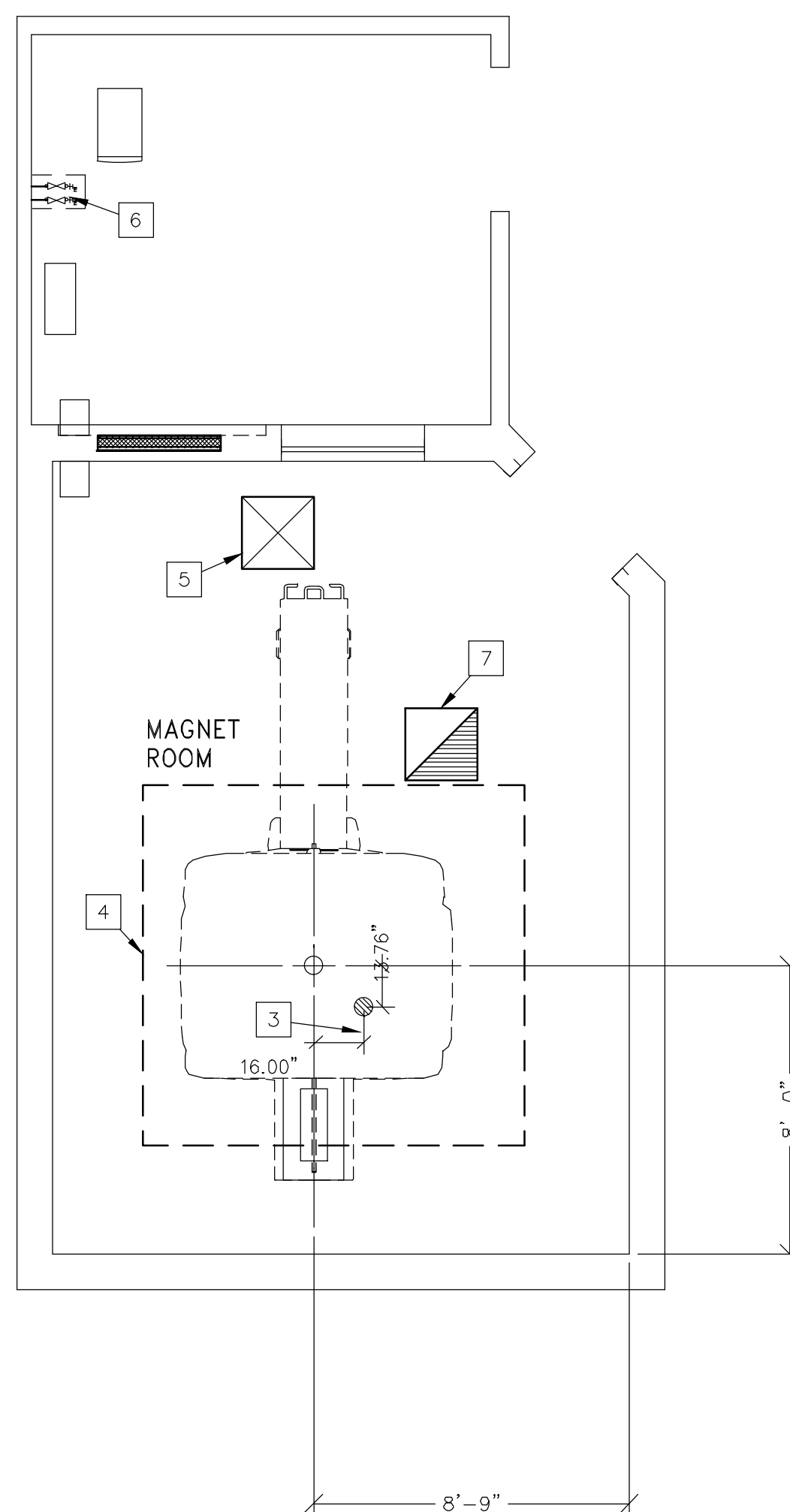
REV. DATE: 05/04/10



CUSTOMER SUPPLIED WARNING SIGN TO READ:
CAUTION
FREEZING GASES AND SMALL OBJECTS MAY BE DISCHARGED WITHOUT NOTICE STAY AT LEAST 20 FT. (6.1 m) AWAY.
*SEE (18.70) FOR 31

THE FOLLOWING ARE MATERIALS THAT MUST BE USED FOR CONSTRUCTION OF THE VENT INSIDE THE MAGNET ROOM.
SS 304
AL 6061-T6
CU DWV/M OR L

NOTE: VENTGLASS AND CLAMPS FOR 8 IN. (203mm) DIAMETER PIPE SUPPLIED BY DECH.
NOTE: THE VENT GLASS ISOLATION JOINT INSIDE THE MAGNET ROOM MUST BE A MAXIMUM OF 116" (2951mm) ABOVE THE FINISHED FLOOR.
NOTE: GE SUPPLIES VENTGLASS & CLAMPS WHICH CAN BE USED FOR 8 IN. (203mm) DIAMETER PIPE ONLY. THESE MATERIALS MAY BE USED FOR ISOLATION JOINT OUTSIDE OF ROOM AT THE CONTRACTOR'S OPTION IF THE MATERIALS MEETS THE CONTRACTOR'S DESIGN REQUIREMENTS.
* ABOVE
• THE VENTGLASS MUST NOT BE USED FOR STRUCTURAL SUPPORT



CRYOGENIC VENT SYSTEM PRESSURE DROP MATRIX (A)

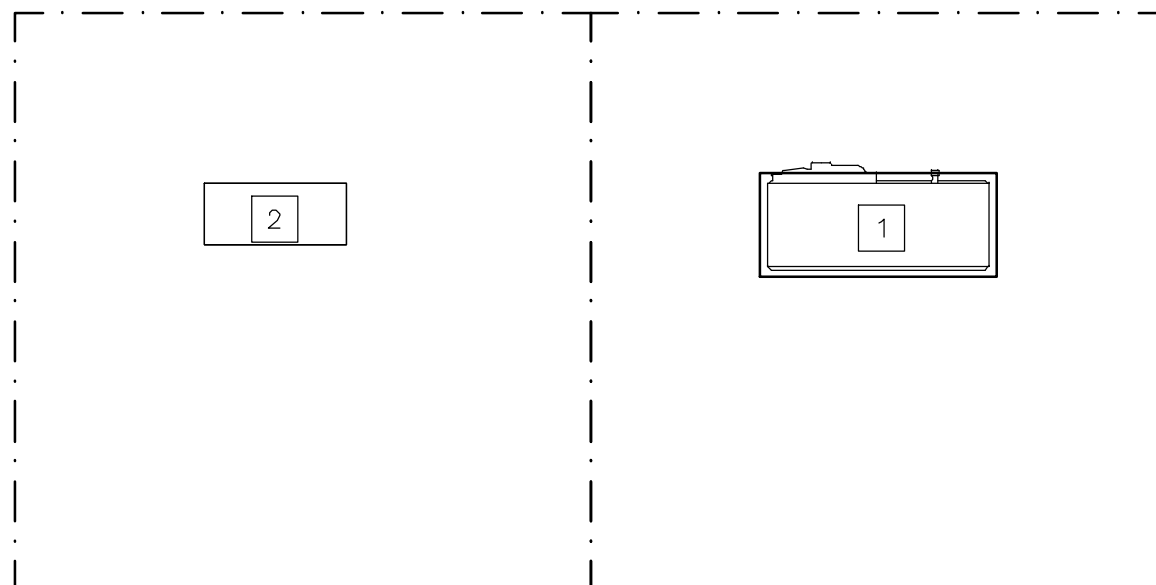
MECH-04

REV. DATE: 10/04/02

(THIS TABLE MUST BE USED FOR CRYOGENIC VENT SYSTEM DESIGN)

INSIDE DIAMETER OF VENT PIPE (in./mm)	CRYOGENIC VENT SYSTEM PRESSURE DROP MATRIX FOR A MAGNET WITH 8" (203mm) VENT.			PRESSURE DROP PER ELBOW USED ANYWHERE WITHIN 20 FT. VENT SEGMENT		
	DISTANCE OF VENT SYSTEM COMPONENT FROM MAGNET	PRESSURE DROP STRAIGHT VENT PIPE WITH SMOOTH SURFACE (psi/ft. (kPa/m))	STANDARD SWEEP ELBOW (psi) (kPa)	STANDARD SWEEP ELBOW (psi) (kPa)	LONG SWEEP ELBOW 45° (psi) (kPa)	LONG SWEEP ELBOW 90° (psi) (kPa)
8(203)	0-20 (0-6.1)	0.10 (2.26)	1.10 (7.68)	2.06 (14.20)	0.55 (3.78)	1.03 (7.10)
	20-40 (6.1-12.2)	0.21 (4.73)	2.10 (14.48)	3.70 (26.51)	1.03 (7.10)	1.88 (13.42)
	40-60 (12.2-18.3)	0.30 (6.79)	2.88 (19.86)	5.21 (36.92)	1.44 (9.93)	2.60 (17.92)
	60-80 (18.3-24.4)	0.38 (8.60)	3.70 (26.51)	6.71 (46.27)	1.85 (12.76)	3.36 (23.17)
	80-100 (24.4-30.5)	0.47 (10.63)	4.52 (31.17)	8.22 (56.68)	2.26 (15.58)	4.11 (28.34)
10(254)	0-20 (0-6.1)	0.03 (0.68)	0.55 (3.79)	0.82 (5.56)	0.27 (1.88)	0.41 (2.83)
	20-40 (6.1-12.2)	0.07 (1.58)	0.82 (5.56)	1.51 (10.41)	0.41 (2.83)	0.75 (5.17)
	40-60 (12.2-18.3)	0.10 (2.26)	1.23 (8.48)	2.19 (15.10)	0.62 (4.27)	1.10 (7.56)
	60-80 (18.3-24.4)	0.12 (3.21)	1.51 (10.41)	2.74 (18.89)	0.75 (5.17)	1.37 (9.45)
	80-100 (24.4-30.5)	0.16 (3.62)	1.82 (13.24)	3.43 (23.51)	0.96 (6.62)	1.71 (11.79)
12(305)	0-20 (0-6.1)	0.013 (0.29)	0.27 (1.86)	0.41 (2.83)	0.14 (0.97)	0.21 (1.45)
	20-40 (6.1-12.2)	0.027 (0.61)	0.41 (2.83)	0.82 (5.56)	0.21 (1.45)	0.41 (2.83)
	40-60 (12.2-18.3)	0.043 (0.93)	0.69 (4.75)	1.10 (7.56)	0.34 (2.34)	0.55 (3.79)
	60-80 (18.3-24.4)	0.054 (1.22)	0.89 (6.21)	1.37 (9.45)	0.44 (3.04)	0.69 (4.76)
	80-100 (24.4-30.5)	0.069 (1.56)	1.09 (7.52)	1.64 (11.31)	0.55 (3.79)	0.88 (6.07)
14(356)	0-20 (0-6.1)	0.008 (0.21)	0.18 (1.27)	0.27 (1.86)	0.10 (0.69)	0.15 (1.04)
	20-40 (6.1-12.2)	0.016 (0.42)	0.27 (1.86)	0.54 (3.79)	0.15 (1.04)	0.21 (1.45)
	40-60 (12.2-18.3)	0.022 (0.61)	0.41 (2.83)	0.82 (5.56)	0.21 (1.45)	0.41 (2.83)
	60-80 (18.3-24.4)	0.028 (0.79)	0.54 (3.79)	1.10 (7.56)	0.27 (1.86)	0.55 (3.79)
	80-100 (24.4-30.5)	0.036 (0.93)	0.69 (4.75)	1.37 (9.45)	0.34 (2.34)	0.69 (4.76)

NOTE 1: ELBOWS WITH ANGLES GREATER THAN 90° MUST NOT BE USED.
NOTE 2: THE TABLE DATA IS BASED ON THE FOLLOWING:
A. INITIAL FLOW CONDITIONS AT MAGNET INTERFACE.
B. GAS TEMPERATURE STARTING AT 4.5 KELVIN (-452° F OR -268° C).
C. HELIUM GAS FLOW RATE OF 2.037 CUBIC FEET (57.5 CUBIC METERS) PER MINUTE.
D. 45° STANDARD SWEEP ELBOW K = 15 F.
E. 90° STANDARD SWEEP ELBOW K = 30 F.
F. 45° LONG SWEEP ELBOW K = 7.5 F.
G. 90° LONG SWEEP ELBOW K = 15 F.
NOTE 3: THE TOTAL PRESSURE DROP OF THE ENTIRE CRYOGENIC VENT SYSTEM MUST BE LESS THAN 17 PSI (117.2 KPa). THE CALCULATION STARTS AT THE MAGNET VENT INTERFACE AND ENDS AT THE TERMINATION POINT OUTSIDE THE BUILDING.
NOTE 4: FOR 14 IN. (356mm) AND 16 IN. (406mm) VENT PIPE DIAMETERS REFER TO PRE-INSTALLATION MANUAL REFERENCED ON SHEET C1.



THIS DRAWING IS BASED ON SKETCH NO. 8-198

PIM R7

GE Healthcare
IS Services Design Center
Milwaukee, Wisconsin

SHEET TITLE: MECHANICAL LAYOUT
MODALITY TYPE: 1.5T SIGNA HDx - TYPE A
NO EQUIPMENT ROOM

THIS PLAN IS SUBMITTED TO SUGGEST LOCATION OF GE HEALTHCARE EQUIPMENT AND ASSOCIATED APPARATUS, ELECTRICAL WIRING DETAILS AND ROOM ARRANGEMENTS. THE CUSTOMER'S CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF THE CRYOGENIC VENT SYSTEM AND VENT SUPPORTS WITHIN THE MAGNET ROOM. THE CUSTOMER'S CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING THE CRYOGEN VENT FROM THE MAGNET VENT ADAPTER TO THE BUILDING'S EXTERIOR. FOR NON-STANDARD VENT CONFIGURATIONS (I.E. OFFSET CEILING EXITS, WALL EXITS, AND GEODESIC DOMES) THE CUSTOMER'S CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF THE CRYOGENIC VENT SYSTEM AND VENT SUPPORTS WITHIN THE MAGNET ROOM. MINIMUM CEILING HEIGHT REQUIREMENT AREA REFER TO MAGNET EQUIPMENT DETAILS FOR MORE INFORMATION. MINIMUM 2 FT. x 2 FT. (0.61m x 0.61m) PRESSURE EQUALIZING WAVEGUIDE VENT IN THE MAGNET ROOM CEILING. TWO (2) 3/4 IN. (19MM) COPPER LINES (INSULATED). FOUR (4) 3/4 IN. (19MM) HOSE BARBS. FOUR (4) 3/4 IN. (19MM) BALL VALVES. TWO (2) 3/4 IN. (19MM) TO 1/2 IN. (13MM) REDUCERS. ONE (1) 150 MICRON FILTER. TWO (2) SHUT OFF VALVES. ONE (1) BY-PASS VALVE. REFER TO DETAIL MECH-40. PLEASE REFER TO THE PRE-INSTALLATION MANUAL FOR COMPLETE FACILITY WATER REQUIREMENTS. EXHAUST FAN AND AIR INLET MUST BE SIZED FOR A MINIMUM OF 1800 CFM (34 M³/MINUTE) AND A MINIMUM OF 18 AIR EXCHANGES PER HOUR. SEE DETAIL ELEC-55 ON THE ELECTRICAL DETAIL SHEET(S). MAGNET ROOM EXHAUST FAN INTAKE VENT MUST BE LOCATED AT THE HIGHEST CEILING PLANE NEAR THE MAGNET CRYOGEN VENT.

PROJECT TITLE: TYPICAL MR MR TYPICAL DRAWINGS

PROJECT: 8-198F
REVISION: 03
DATE: 06.JAN.12
DRAWN BY: PMM
CHECKED BY: TMS

REVISION HISTORY:

SHEET M1

EQUIPMENT DETAIL SYSTEMS CABINET

M08-15K
REV. DATE: 04/06/09

NOTE:
 ① INDICATES AIR FLOW
 ② INADEQUATE VENTILATION WILL CAUSE A REDUCTION IN COOLING CAPACITY AND, IN EXTREME CASES, COMPRESSOR FAILURE. SERVICING THIS UNIT MAY REQUIRE MOVEMENT OF CABINET WITHIN AIR FLOW CLEARANCE AREA.

PLAN VIEW
FRONT VIEW
SIDE VIEW
REAR VIEW

DETAIL NOT TO SCALE

EQUIPMENT DETAIL MESH SHIELD AND R/F SHIELD OPENING

M08-15L
REV. DATE: 17.NOV.11

MAGNET ROOM
EQUIPMENT ROOM

NOTE:
 • ALL DIMENSIONS ARE IN INCHES
 • ALL BRACKETED [] DIMENSIONS ARE IN MILLIMETERS
 • DETAIL NOT TO SCALE

MESH SHIELD
COVER

FRONT VIEW
SIDE VIEW

DETAIL NOT TO SCALE

EQUIPMENT DETAIL PENETRATION PANEL (MAGNET ROOM SIDE)

M50-15G
REV. DATE: 17.NOV.11

PENETRATION PANEL
COVER

FRONT VIEW
SIDE VIEW

DETAIL NOT TO SCALE

EQUIPMENT DETAIL SPT PHANTOM STORAGE CABINET

M61-15
REV. DATE: 10/07/02

NOTE:
 • INDICATES AIR FLOW
 • INDICATES CENTER OF GRAVITY

PLAN VIEW
FRONT VIEW
SIDE VIEW

DETAIL NOT TO SCALE

EQUIPMENT DETAIL MAGNET MONITOR

M16-15C
REV. DATE: 04/24/07

NOTE:
 • INDICATES CENTER OF GRAVITY
 • INDICATES AIR FLOW

MOUNTING PATTERN
FRONT VIEW
LEFT SIDE VIEW
RIGHT SIDE VIEW

DETAIL NOT TO SCALE

EQUIPMENT DETAIL WATER CHILLER CABINET

M30-88TL
REV. DATE: 03/09/09

NOTE:
 • INDICATES AIR FLOW
 • INDICATES CENTER OF GRAVITY

REAR VIEW
PLAN VIEW
SIDE VIEW

DETAIL NOT TO SCALE

EQUIPMENT DETAIL SHIELD COOLER COMPRESSOR

M60-15G
REV. DATE: 05/02/06

NOTE:
 • CENTER OF GRAVITY

FRONT VIEW
SIDE VIEW
REAR VIEW
PLAN VIEW

DETAIL NOT TO SCALE

EQUIPMENT DETAIL DC LIGHTING CONTROLLER

M20-15/
M20-15A
REV. DATE: 02/24/09

NOTE:
 • ALL DIMENSIONS IN INCHES AND [MILLIMETERS]
 • APPROXIMATE WEIGHTS
 CONTROL PANEL 155lbs (70kg)
 AUTOTRANSFORMER 80lbs (36.29kg)
 • BTU/Hr
 CONTROL PANEL 1024 (300W)
 AUTOTRANSFORMER 171 (50W)

MOUNTING PATTERN (CONTROL PANEL)
FRONT VIEW (CONTROL PANEL)
SIDE VIEW (CONTROL PANEL)

DETAIL NOT TO SCALE

EQUIPMENT DETAIL MAIN DISCONNECT PANEL

R45-03T
REV. DATE: 04/02/09

NOTE:
 ALL DIMENSIONS IN INCHES
 BRACKETED EQUALS [mm]
 APPROX. WEIGHT 350lbs (158kg)
 CONDUIT KNOCKOUTS SIZE SAME AS BOTTOM CONDUIT AREA MUST BE FIELD VERIFIED

TOP VIEW
FRONT VIEW
SIDE VIEW
BOTTOM VIEW

DETAIL NOT TO SCALE

EQUIPMENT DETAIL MAGNET RUNDOWN UNIT

M17-15A
REV. DATE: 06/21/96

MOUNTING PATTERN
FRONT VIEW
SIDE VIEW

DETAIL NOT TO SCALE

EQUIPMENT DETAIL OPERATOR WORKSPACE

M05-15K
REV. DATE: 09/20/07

NOTE:
 • ASSEMBLIES WHICH MOUNT TO UNDERSIDE OF TABLE AND IN TABLE CABLE TRAY ARE NOT SHOWN.

PLAN VIEW
FRONT VIEW
SIDE VIEW

DETAIL NOT TO SCALE

EQUIPMENT DETAIL CONSOLE, HOST MONITOR, KEYBOARD & SCSI TOWER

M30-15R
REV. DATE: 04/06/09

NOTE:
 • ALL DIMENSIONS ARE IN INCHES
 • ALL BRACKETED [] DIMENSIONS ARE IN MILLIMETERS
 • DETAIL NOT TO SCALE

FRONT VIEW
SIDE VIEW

DETAIL NOT TO SCALE

GE Healthcare
IS Services Design Center
Milwaukee, Wisconsin

SHEET TITLE: EQUIPMENT DETAILS
MODALITY TYPE: 1.5T SIGNA HD® - TYPE A
NO EQUIPMENT ROOM

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PROJECT: 8-198F
REVISION: 03
DATE: 06.JAN.12
DRAWN BY: PMM
CHECKED BY: TMS

REVISION HISTORY:

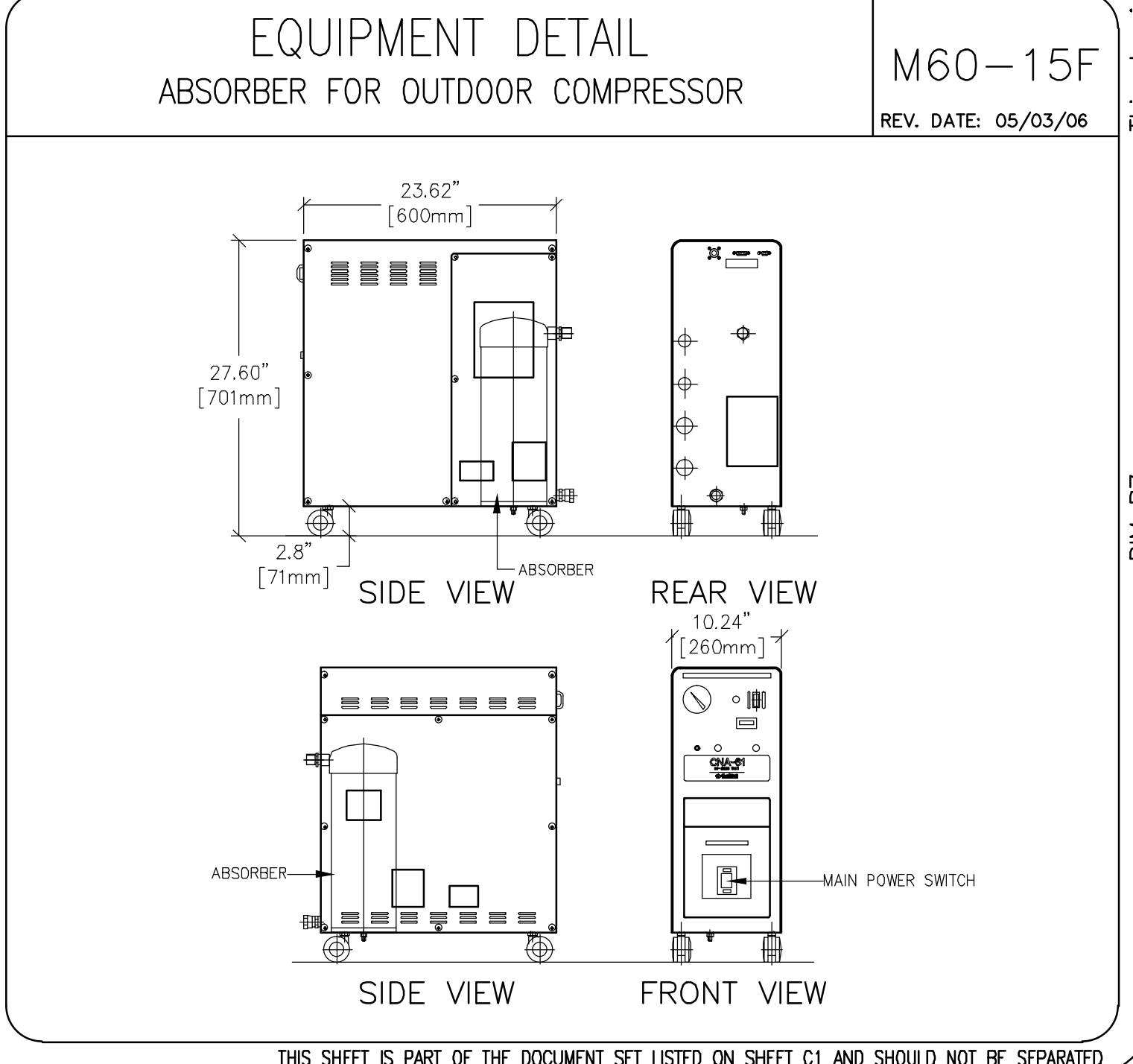
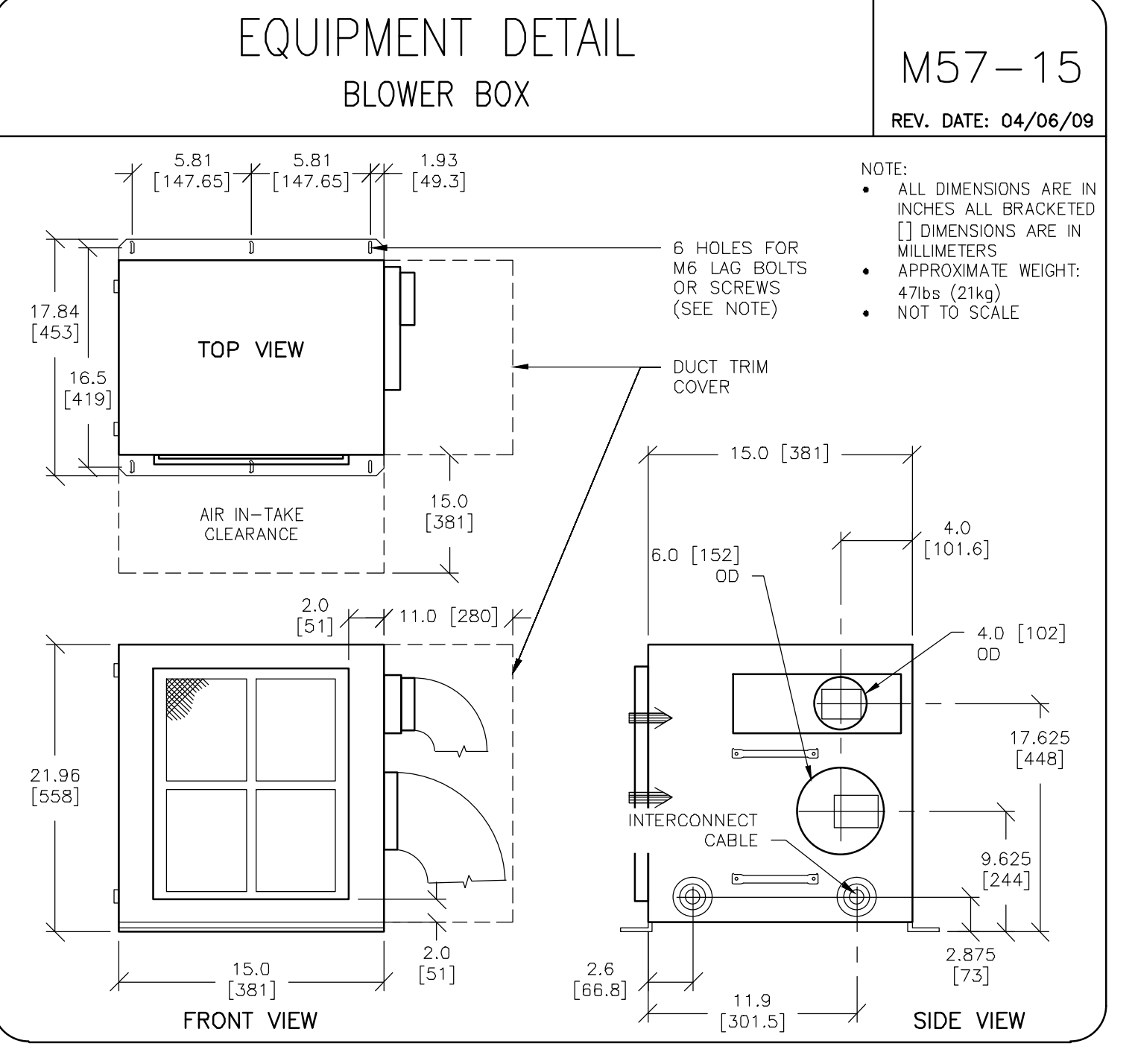
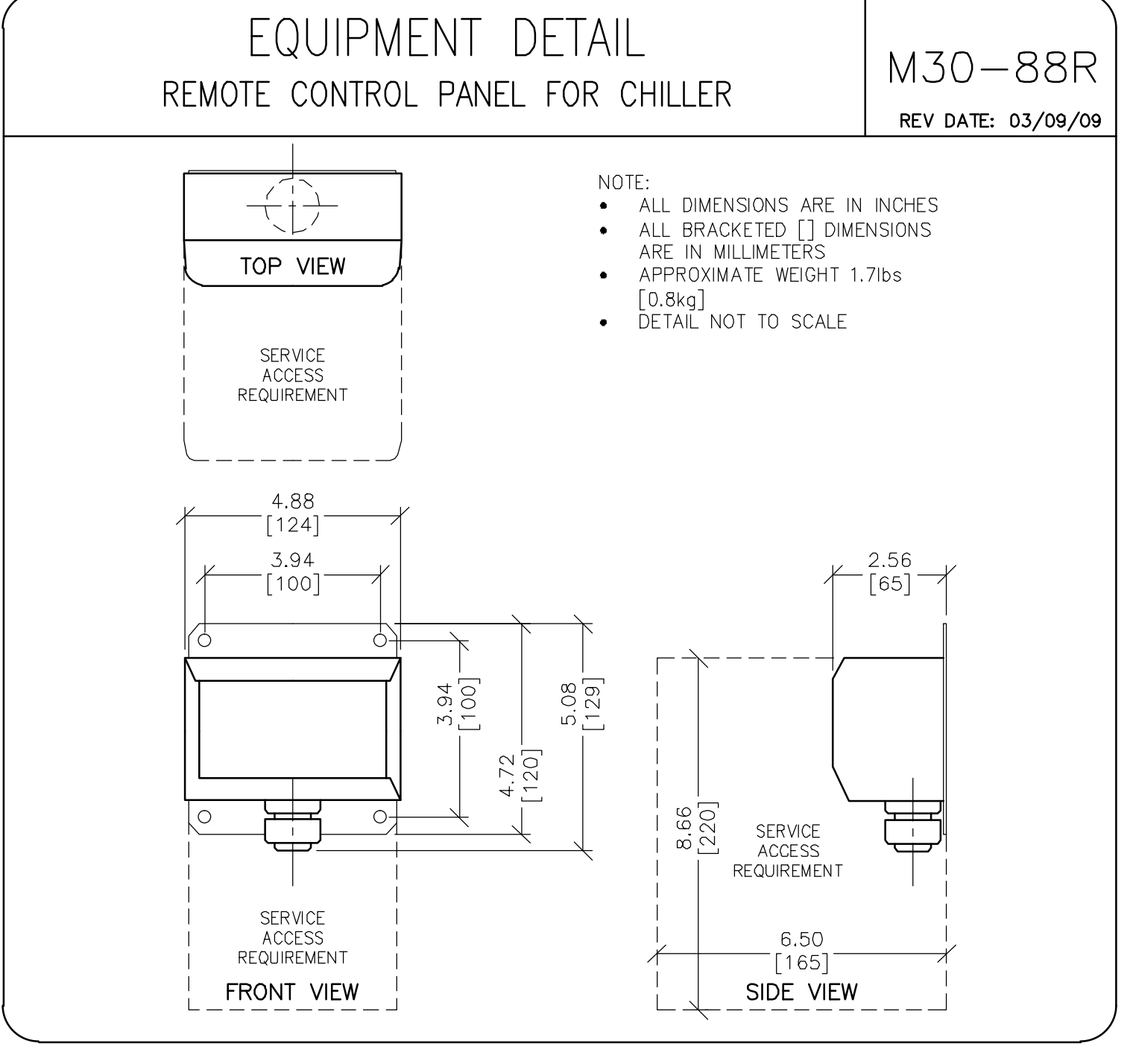
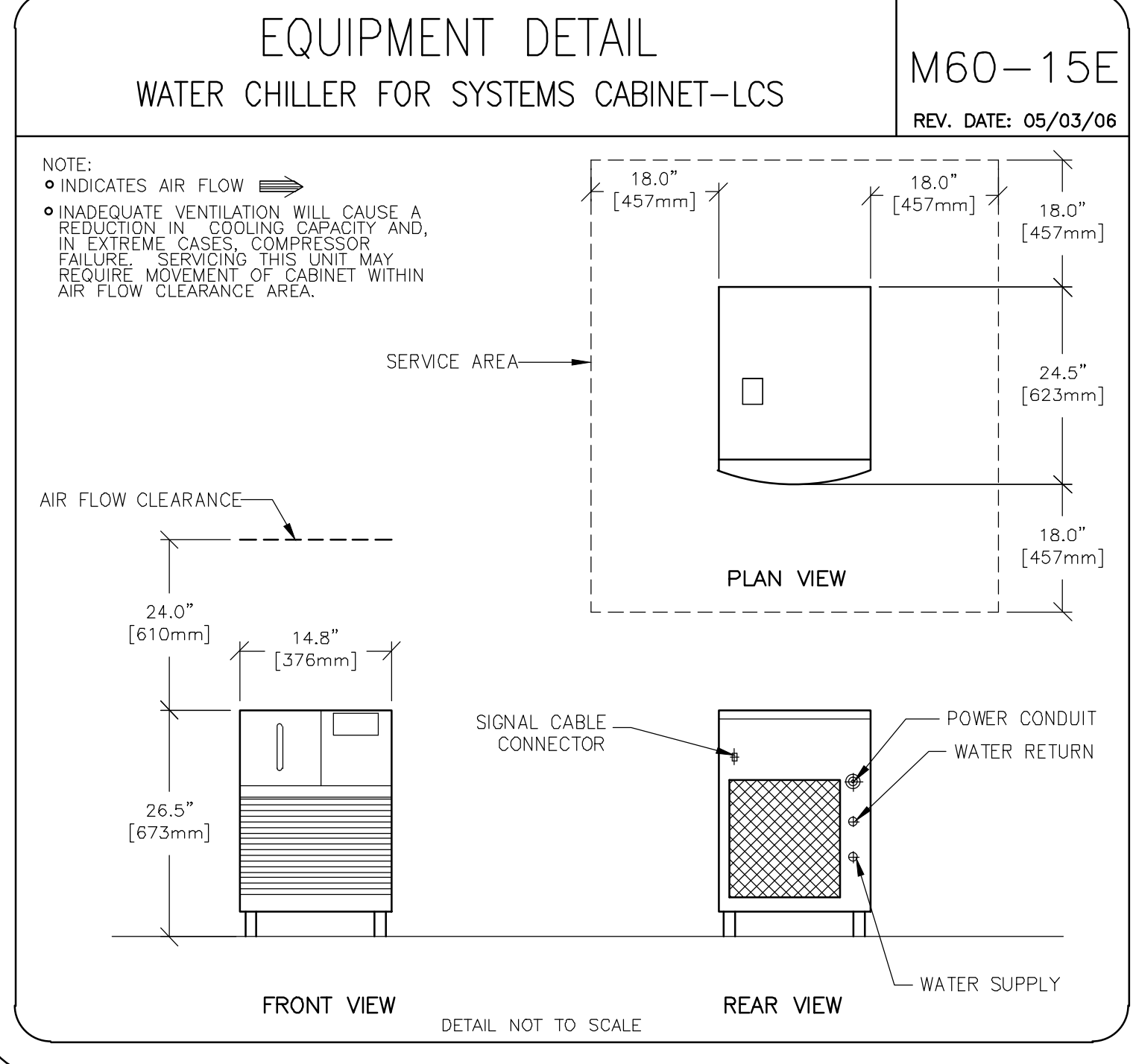
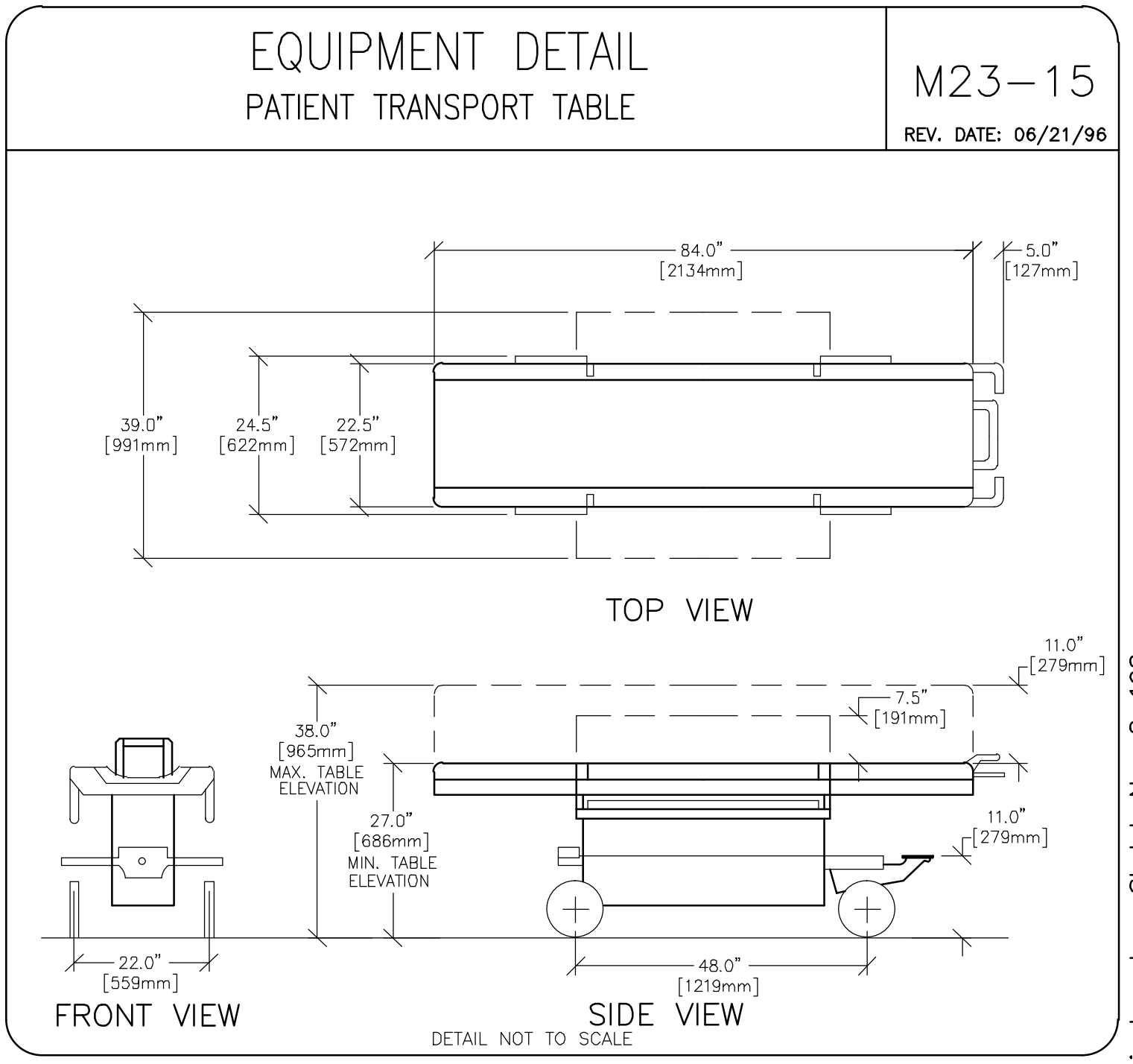
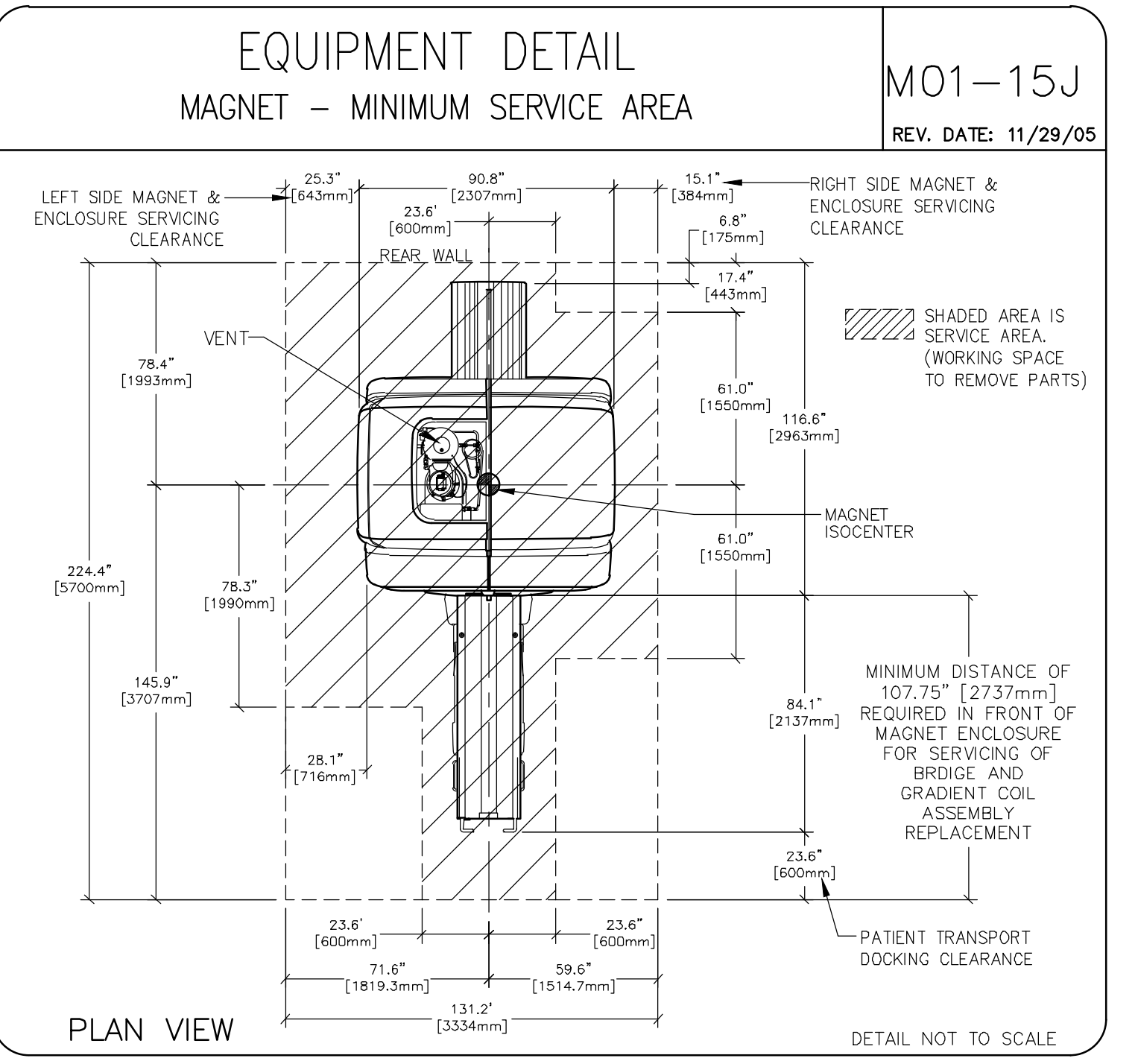
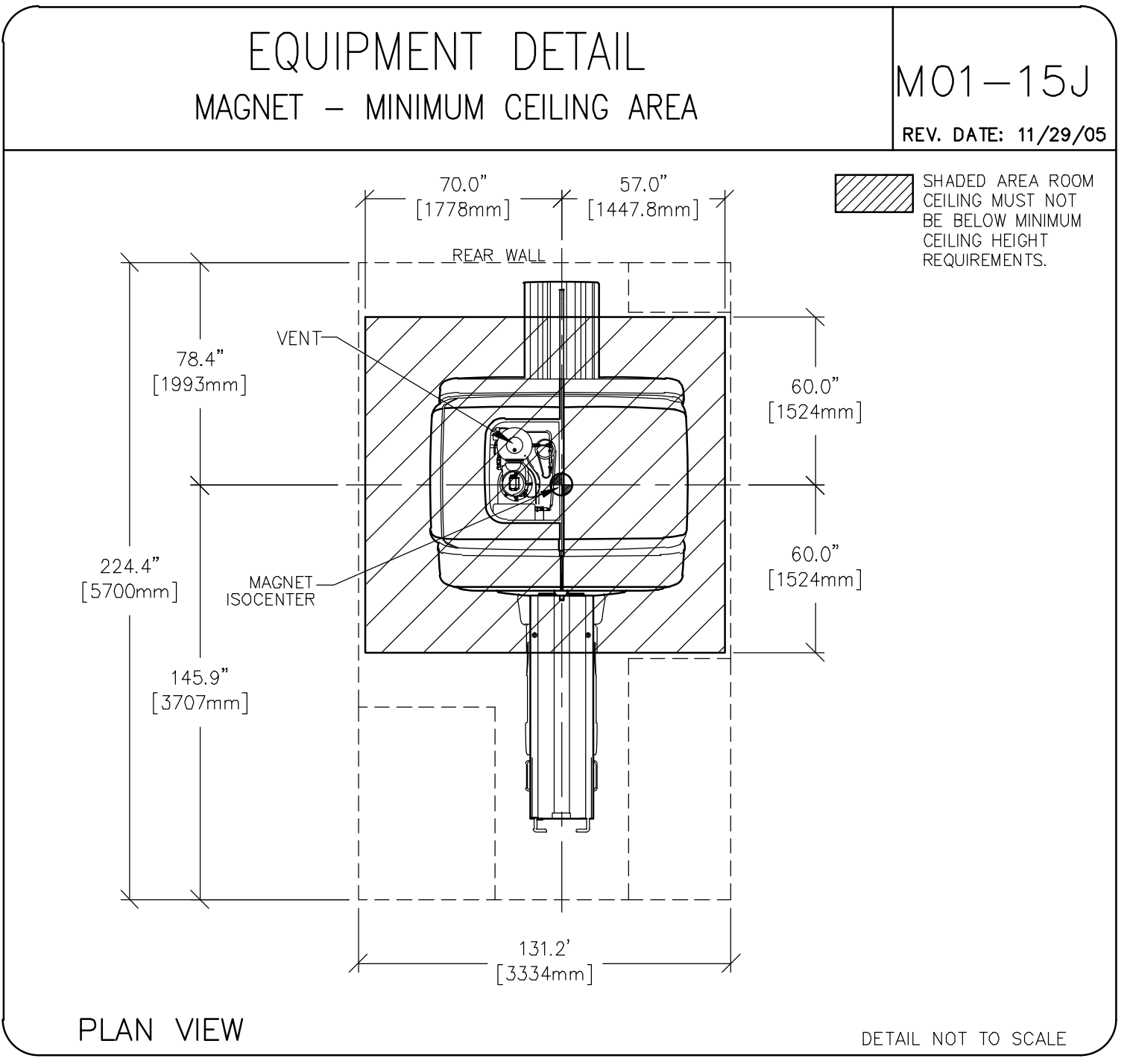
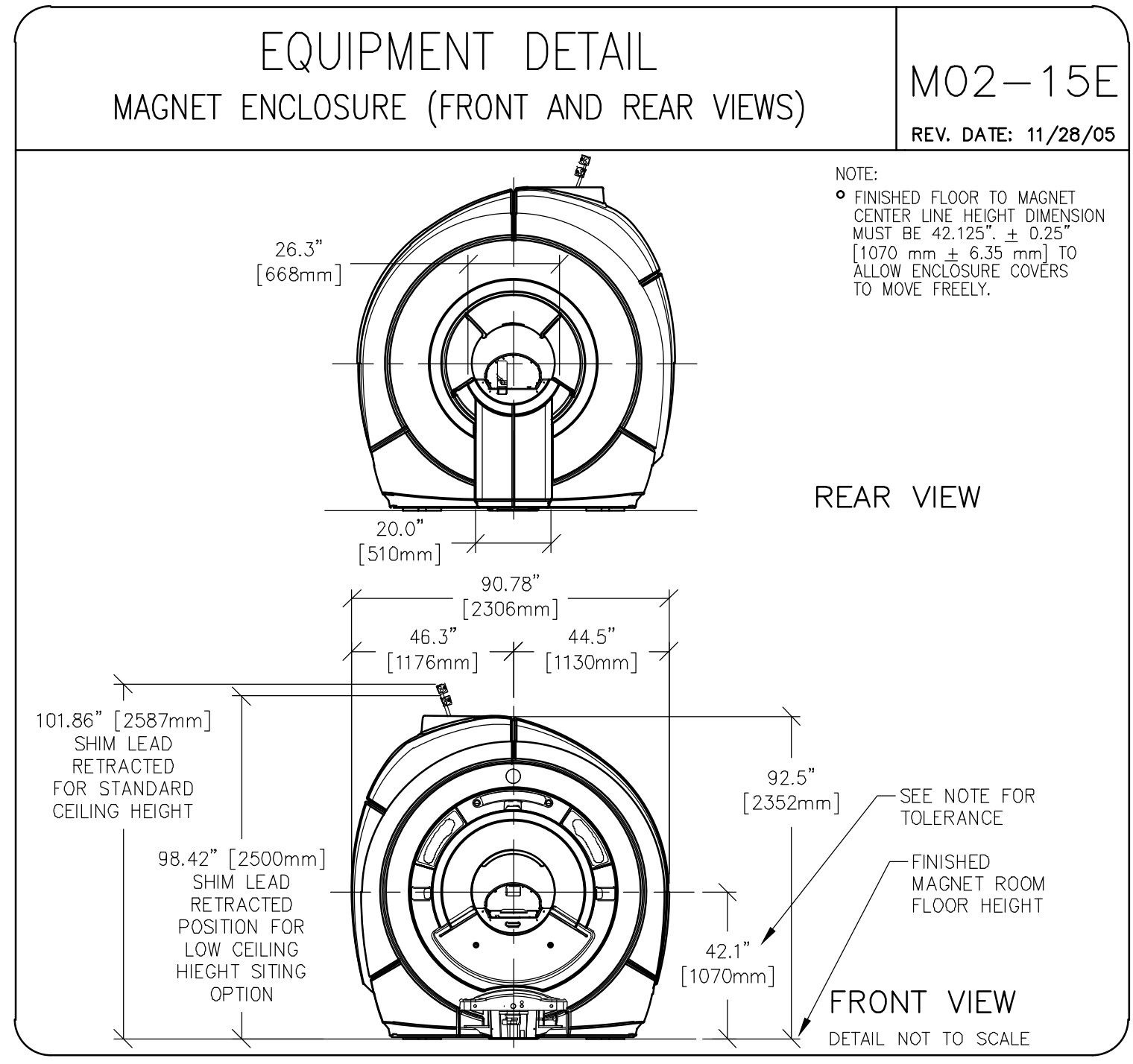
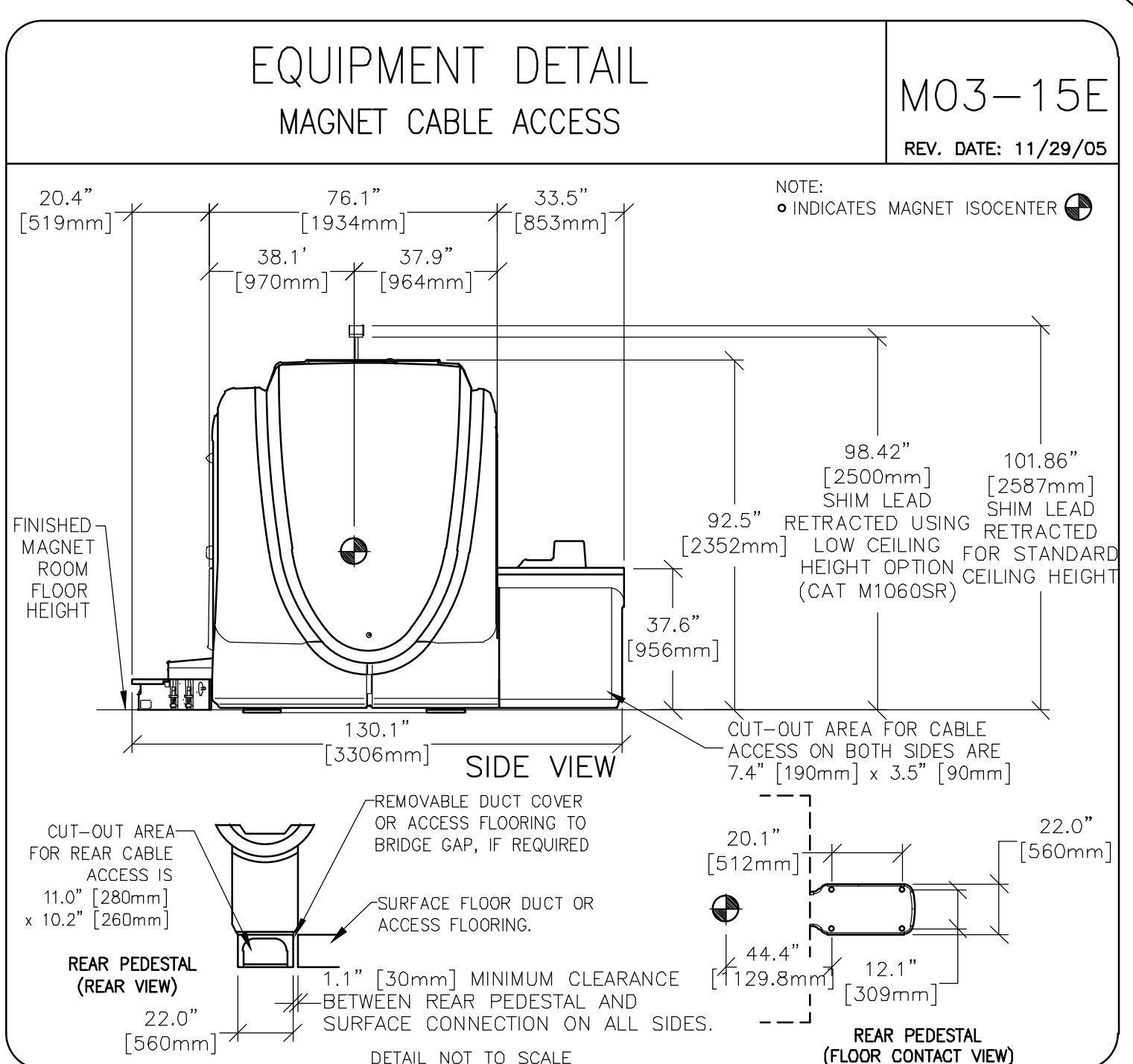
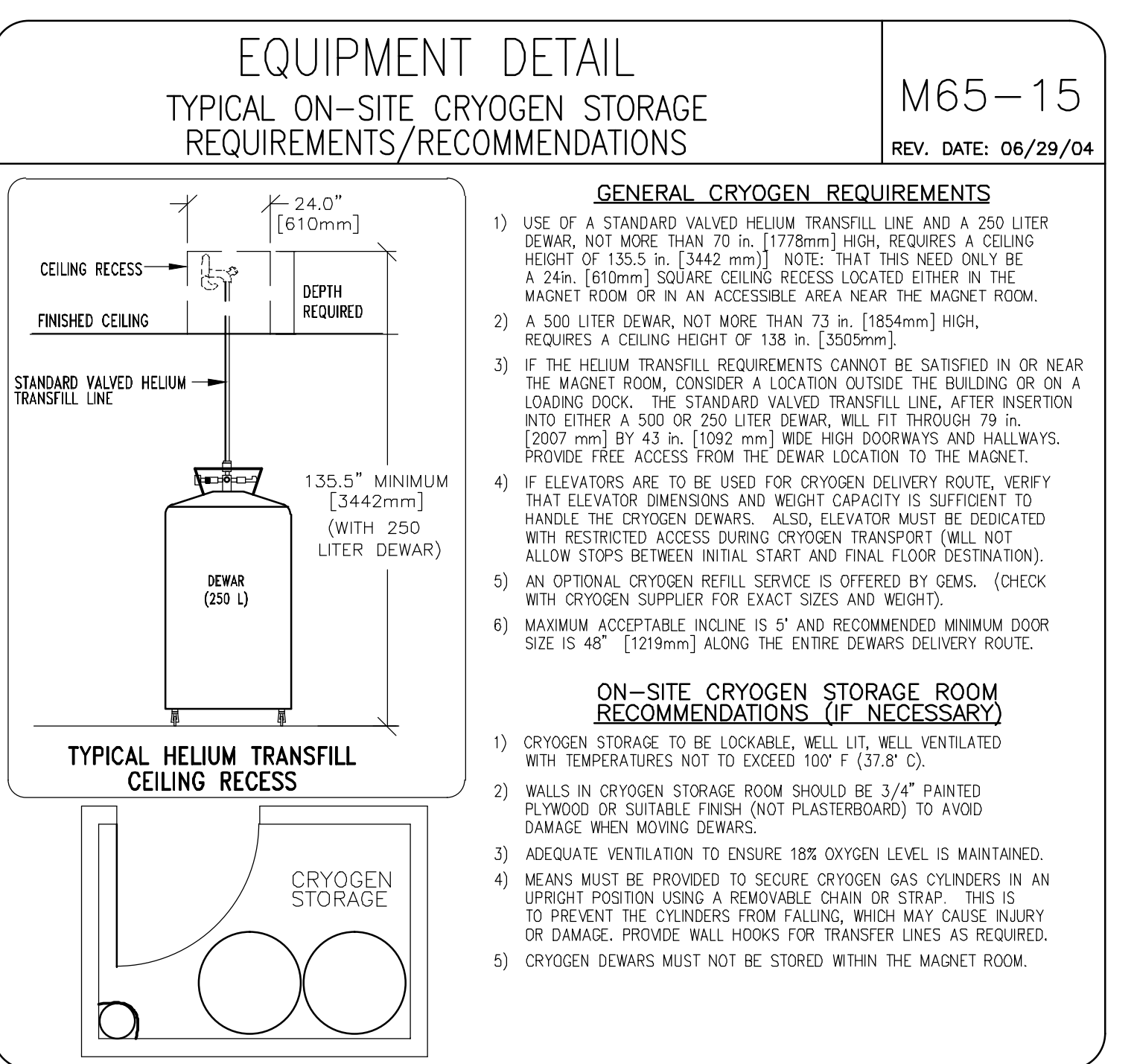
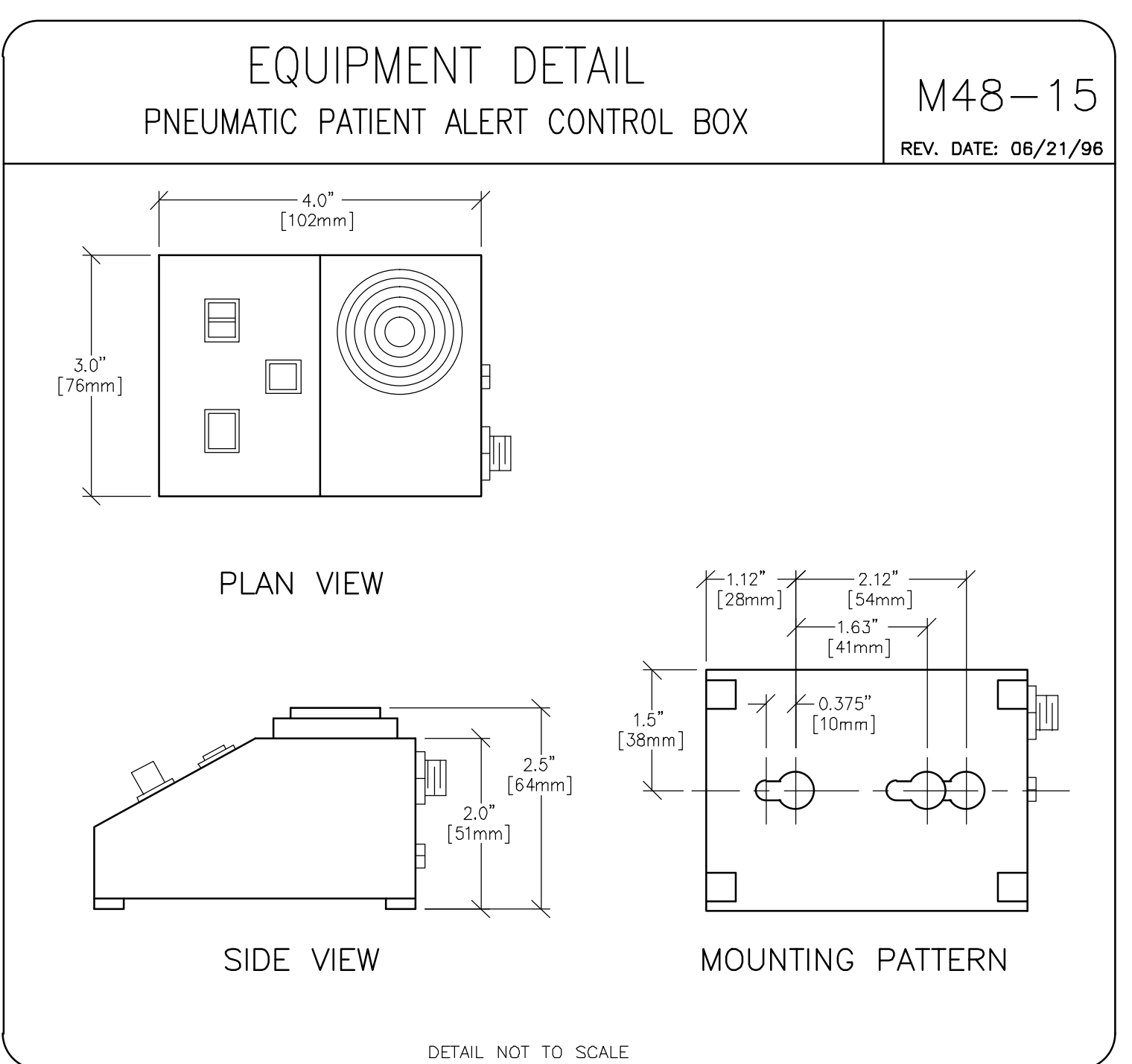
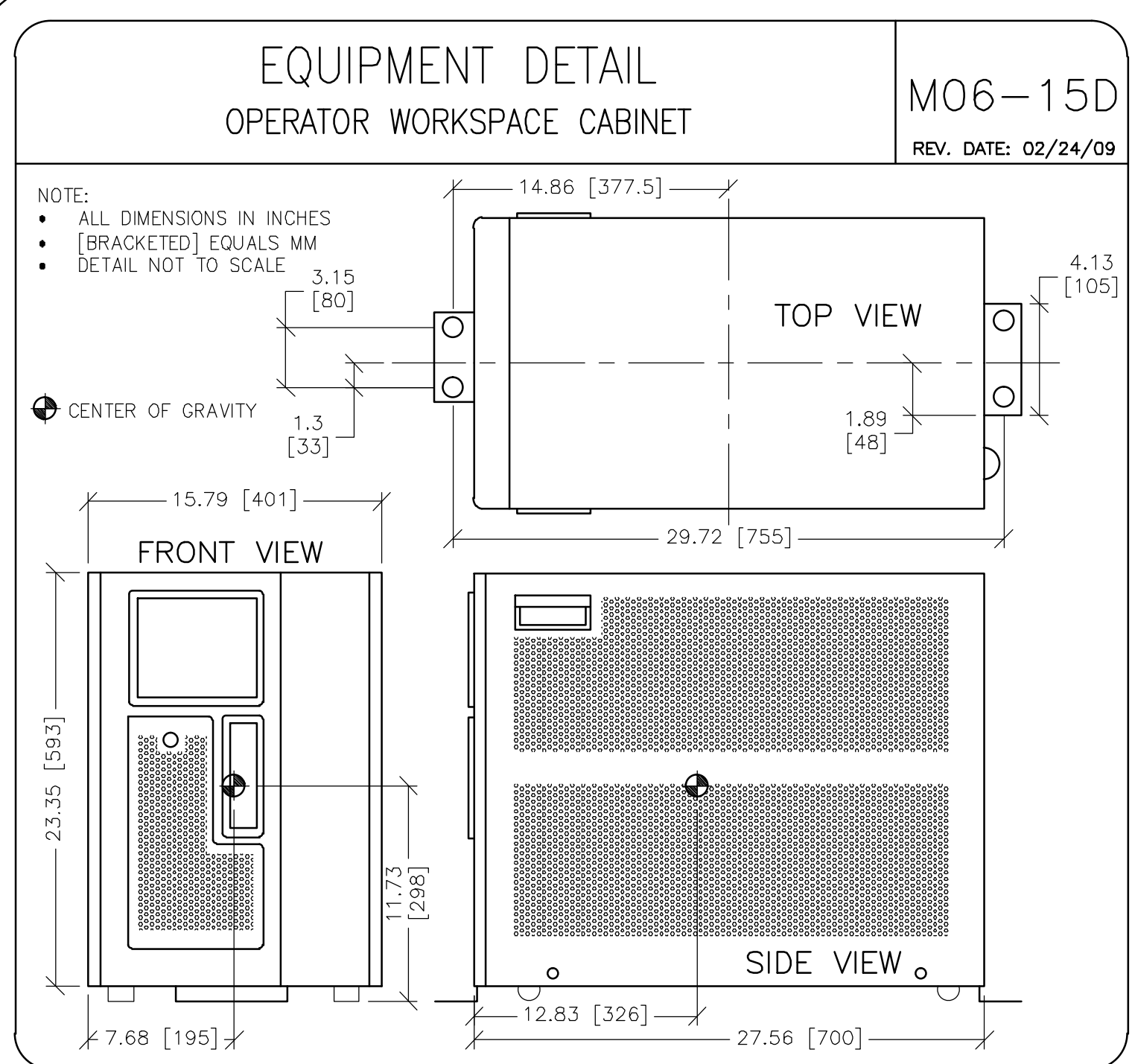
SHEET D1

TYPICAL MR TYPICAL DRAWINGS

This drawing is based on Sketch No.: 8-198

PIM R7

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



GE Healthcare
IS Services Design Center
Milwaukee, Wisconsin

SHEET TITLE: **EQUIPMENT DETAILS**
MODALITY TYPE: **1.5T SIGNA HD® - TYPE A**
NO EQUIPMENT ROOM

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TYPICAL MR
TYPICAL DRAWINGS

PROJECT TITLE: _____ REVISION _____
8-198F 03
DATE: 06.JAN.12
DRAWN BY: PMM
CHECKED BY: TMS

REVISION HISTORY:

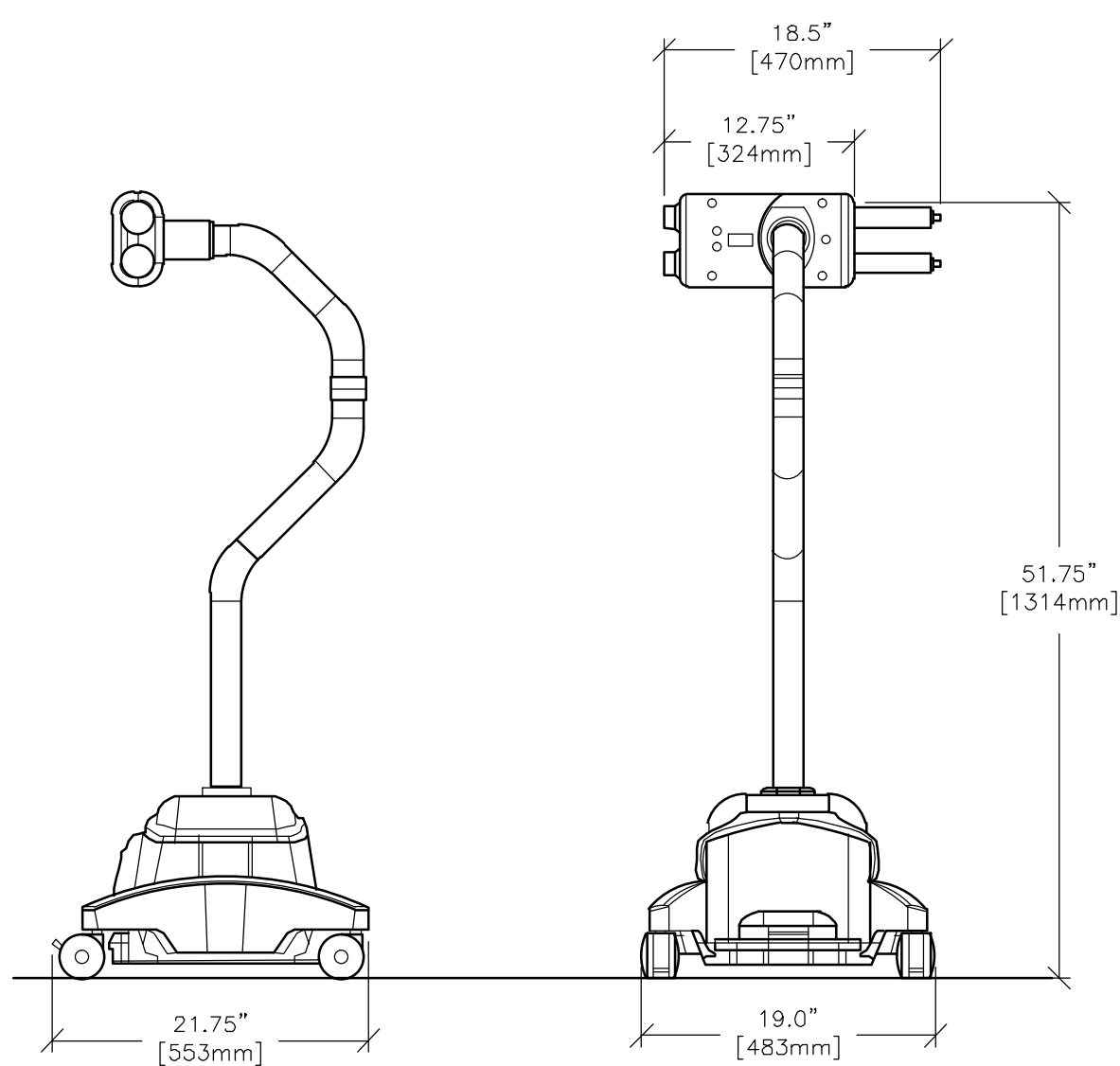
SHEET **D2**

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EQUIPMENT DETAIL
SOLARIS INJECTOR ON PEDESTAL

E88-04S1

REV. DATE: 04/18/03

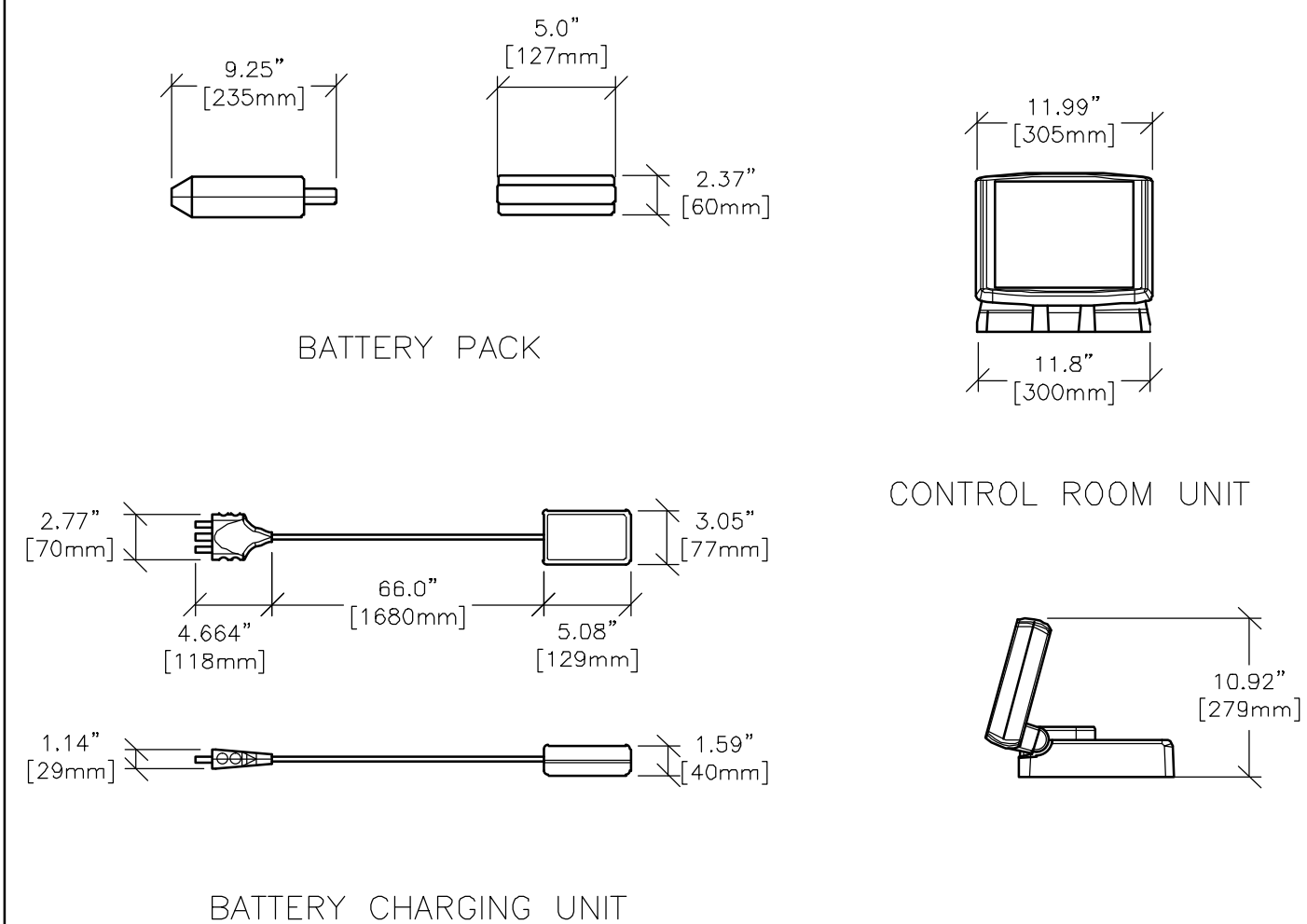


DRAWING NOT TO SCALE

EQUIPMENT DETAIL
SOLARIS INJECTOR ELECTRONICS

E88-04S

REV. DATE: 04/18/03



DRAWING NOT TO SCALE

This drawing is based on Sketch No.: 8-198

PIM R7

SHEET TITLE: EQUIPMENT DETAILS
MODALITY TYPE: 1.5T SIGNA HD® - TYPE A
NO EQUIPMENT ROOM

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PROJECT TITLE:

TYPICAL
MR
TYPICAL DRAWINGS

PROJECT	REVISION
8-198F	03

DATE: 06.JAN.12
DRAWN BY: PMM
CHECKED BY: TMS

REVISION HISTORY:

SHEET
D3



GE Healthcare
IS Services Design Center
Milwaukee, Wisconsin