

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 3.0T HDx
Pre Installation Manual
5159903

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 # :
GEHC On-site Representative :
Name of customer reviewed with :
GEHC PMI :
Target Site Prep Completion Date :

Customer :
MI Supplier :
Lead Installer :
Phone Number :
Helper :

GEHC Minimum Requirements

Item #

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 construc

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 PIM, 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 PIM-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.

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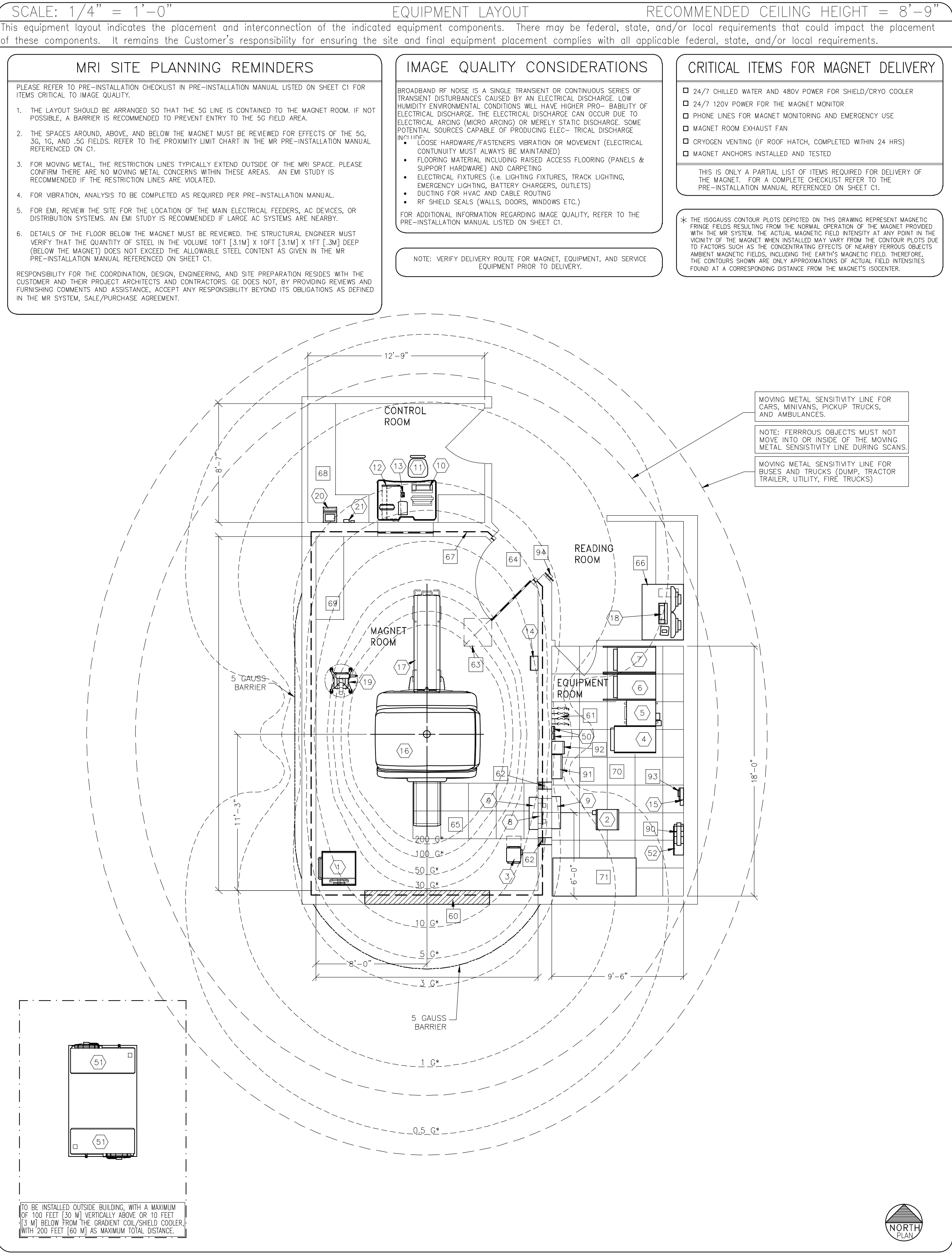
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GE EQUIPMENT LISTING									
EQUIPMENT ON ORDER FROM GE HEALTHCARE, INSTALLED BY GE HEALTHCARE, PER : NEITHER A QUOTE OR CON WAS ISSUED AT THE DATE OF THESE DRAWINGS							EQUIPMENT CROSS REFERENCE CHART		
NOTE: LOCAL CONDITIONS MAY DICTATE THAT ITEMS IDENTIFIED IN THIS CATEGORY BE INSTALLED BY OTHERS.							SEISMIC STATUS	P = PREAPPROVAL C = CALCULATIONS/ PENDING APPROVAL S = SPECIFICATIONS ONLY	
ITEM NO.	QUANTITY ORDERED	REFER TO SHEET "D"	ITEM DESCRIPTION (* = EXISTING/REINSTALL)	WEIGHT	HEAT OUTPUT (PER HOUR)	DETAIL NO.	STRC PLAN	ELEC PLAN	
1	1		SPT PHANTOM CABINET	350 lbs		M6115	-	MS5	C
2	1		SHIELD COOLER CABINET	275 lbs		M1615B	-	MS5	C
3	1		BLOWER BOX	19 lbs	1365 btu	M3000F	M30 GDS	MG6	S
4	1		TWINSPEED ACCESSORY CABINET	601 lbs	2354 btu	M3000A	-	TAC	S
5	1		NARROW BAND RF AMPLIFIER CABINET	749 lbs	21341 btu	M0915G	-	MR8	S
6	1		RFS CABINET	701 lbs	10256 btu	M5015E	-	MR2	S
7	1		HFD/PDU CABINET	1805 lbs	34129 btu	M5015E	-	MR3	S
8	1		RF PENETRATION PANEL	88 lbs	324 btu	M5615 M5915 M4515B	-	PP1	S
9	2		PENETRATION PANEL COVERS			M4715B	-		S
10	1		OPERATOR WORKSPACE W/COLOR LCD MONITOR	125 lbs	4948 btu	M0516B	Q	DW	-
11	1		OPERATOR'S CHAIR						-
12	1		OPERATOR WORKSPACE CABINET	198 lbs		M0615D	-		C
13	1		PATIENT ALERT CONTROL BOX			M4815	-	PA	S
14	1		MAGNET RUNDOWN UNIT	8 lbs		M1715A	-	MS4	C
15	1		MAGNET MONITOR	22 lbs	204 btu	M1615C	-	MSM1	C
16	1		3.0 TESLA LCC ACTIVE SHIELD MAGNET	24808 lbs	8191 btu	M6515 M0330A M0330B M0330C	M66 30C	MS1	-
17	1		PATIENT TRANSPORT TABLE (DOES NOT INCLUDE PATIENT)	279 lbs		M2315	-		S
18	0		ADVANTAGE WORKSTATION WITH TWO LCD MONITORS (OPTIONAL)	81 lbs	1109 btu	M1013AW	---		S
19	0		INJECTOR HEAD ON PEDESTAL (OPTIONAL)	59 lbs		E8804S1	-	IH	-
20	0		CONTROL ROOM UNIT (OPTIONAL)	15 lbs		E8804S	-	ICC	-
21	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.									
50	2		REMOTE CONTROL FOR CHILLER SYSTEM	2 lbs		M3088R	-	RCP	-
51	2		MR COMMON CHILLER SYSTEM	683 lbs		M3088TL	-	MRCC	-
52	1		MAIN DISCONNECT CONTROL	350 lbs	901 btu	M3088TH	-	MDP	C



ANCILLARY ITEMS	
CUSTOMER/CONTRACTOR SUPPLIED AND INSTALLED ITEMS	
ITEM NO.	ITEM DESCRIPTION (* INDICATES EXISTING)
60	MINIMUM 9 FT.-0 IN. [2743 mm] X 9 FT.-0 IN. [2743 mm] REMOVABLE WALL SECTION FOR MAGNET DELIVERY/REMOVAL.
61	VALVES AND HOSE BARBS FOR COOLING SYSTEM
62	RF FILTERS - LOCATE WITHIN 24 IN. [610 mm] OF THE RF COMMON GROUND STUD
63	MAGNET ROOM EXHAUST FAN
64	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
65	NON-METAL ACCESS FLOOR WITH 2' X 2' [610 X 610mm] REMOVABLE PANELS & SUPPORT HARDWARE REQUIRED WITHIN MAGNET ROOM
66	WORKSTATION TABLE
67	RF SCREEN, INCLUSIVE OF WALLS, FLOOR, DOOR, ETC. GROUND IMPEDANCE GREATER THAN 1000 OHMS. ATTENUATION 100dB AT 10-150MHz PLANEWAVE.
68	COUNTERTOP WITH DRAWERS FOR MISCELLANEOUS ITEMS.
69	BASE CABINET FOR STORAGE OF SURFACE COILS, PATIENT POSITIONING PADS, PHANTOMS, ETC.
70	ACCESS FLOOR WITH 2' X 2' [610 X 610mm] REMOVABLE PANELS
71	AIR CONDITIONING - VIBRATION ISOLATION IS RECOMMENDED AT SUPPORTS OF EACH UNIT TO BE INSTALLED
THE FOLLOWING ITEMS ARE AVAILABLE FROM GE HEALTHCARE TECHNOLOGIES. CONTACT YOUR LOCAL GE HEALTHCARE SERVICE REPRESENTATIVE FOR PRICING AND AVAILABILITY.	
90	MAGNET MONITOR UPS GE CAT. NO. E4504AG 50 LBS. / 450 BTU.
91	DC LIGHTING CONTROL PANEL 155 lbs 70 kg 1024 BTU/HR. [300W] CAT. NO. E4505C/SE - BASIC SYSTEM
92	DC LIGHTING AUTO TRANSFORMER 60 lbs [27 kg] 171 BTU/HR [50W] (PART OF VARIABLE DIMMER SYSTEM) CAT. NO. E45053/SEF INCLUDES BASIC SYSTEM
93	MULTIPLEXER BOX (MUX)
94	METAL DETECTOR (HAND HELD)

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 PRECATED 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, [59-69.8 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.
- 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.
- 24 HOUR POWER AND HVAC MUST BE AVAILABLE UPON MAGNET DELIVERY. [THIS WILL INCLUDE FACILITY CHILLED WATER SUPPLY IF REQUIRED.]
- CRYOGEN VENTING AND EMERGENCY EXHAUST SYSTEMS MUST BE COMPLETED IN THE MAGNET ROOM PRIOR TO DELIVERY.
- FLUORESCENT 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 < 17.1mG AC. EMI < 4.1mG DC.
- POTENTIAL EXISTS UNDER FAULT CONDITIONS THAT THE 5 GAUSS LINE MAY EXPAND AXIALLY TO 24.61 FT. [7.5 m] AND RADIALLY TO 19.68' FT. [6.0 m] FOR 100 SECONDS OR LESS. IT SHOULD BE NOTED THAT NORMAL RAMPDOWNS 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
FORKLIFTS, SMALL ELEVATOR, CARS, MINIVANS VANS, PICKUP TRUCKS, AMBULANCES (OBJECTS GREATER THAN 400 lbs [182 kg])	21.0 ft. [6.4 m]	26.0 ft. [7.92 M]
BUSES AND TRUCKS (DUMP, TRACTOR TRAILER, UTILITY, FIRE TRUCKS)	24.5 ft. [7.47 m]	30.3 ft. [9.25 M]

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 LAYOUT

MODALITY TYPE: 3.0T SIGNA HDx

THIS PLAN IS SUBMITTED TO SUGGEST LOCATION OF GE HEALTHCARE EQUIPMENT AND ASSOCIATED APPARATUS, ELECTRICAL WIRING DETAILS AND ROOM ARRANGEMENTS. THE CUSTOMER'S RESPONSIBILITY IS TO VERIFY THAT THE EQUIPMENT IS NOT TO BE USED FOR ACTUAL EQUIPMENT PURPOSES. HOWEVER, THE COMPANY CANNOT ACCEPT RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:

8-214F

TYPICAL LAYOUT

PROJECT

REVISION

8-214F

05

DATE:

12.Jan.12

DRAWN BY:

PMM

CHECKED BY:

PMM

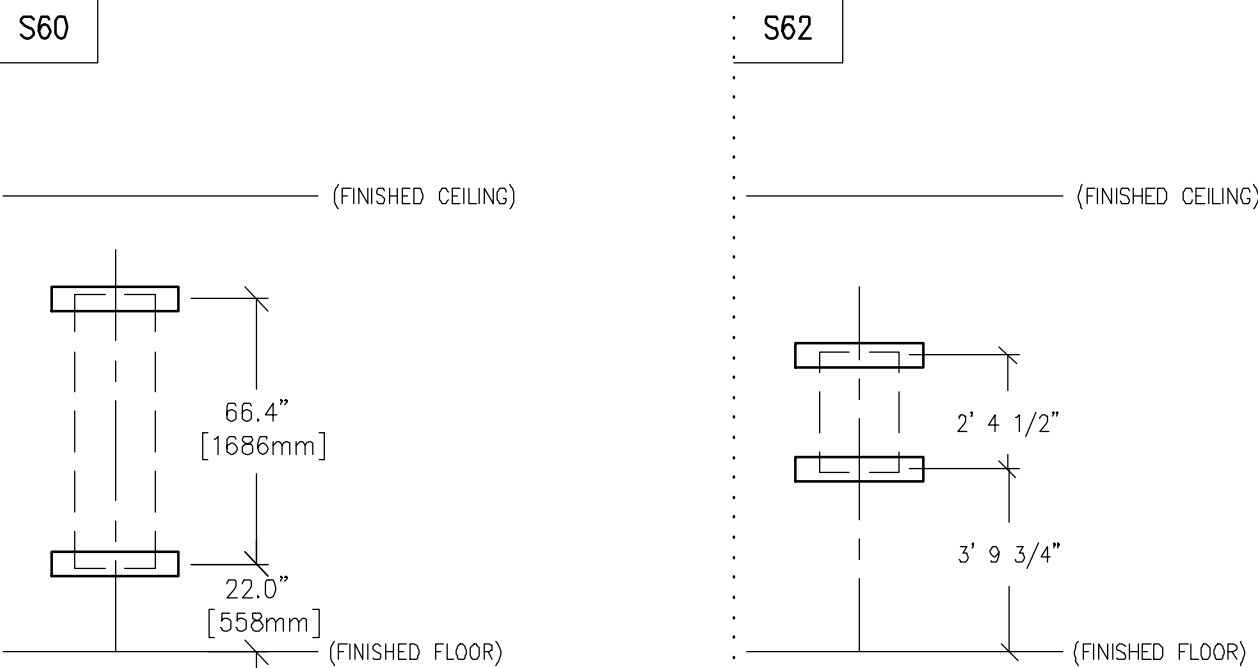
REVISION HISTORY:

SHEET

A1

975-122

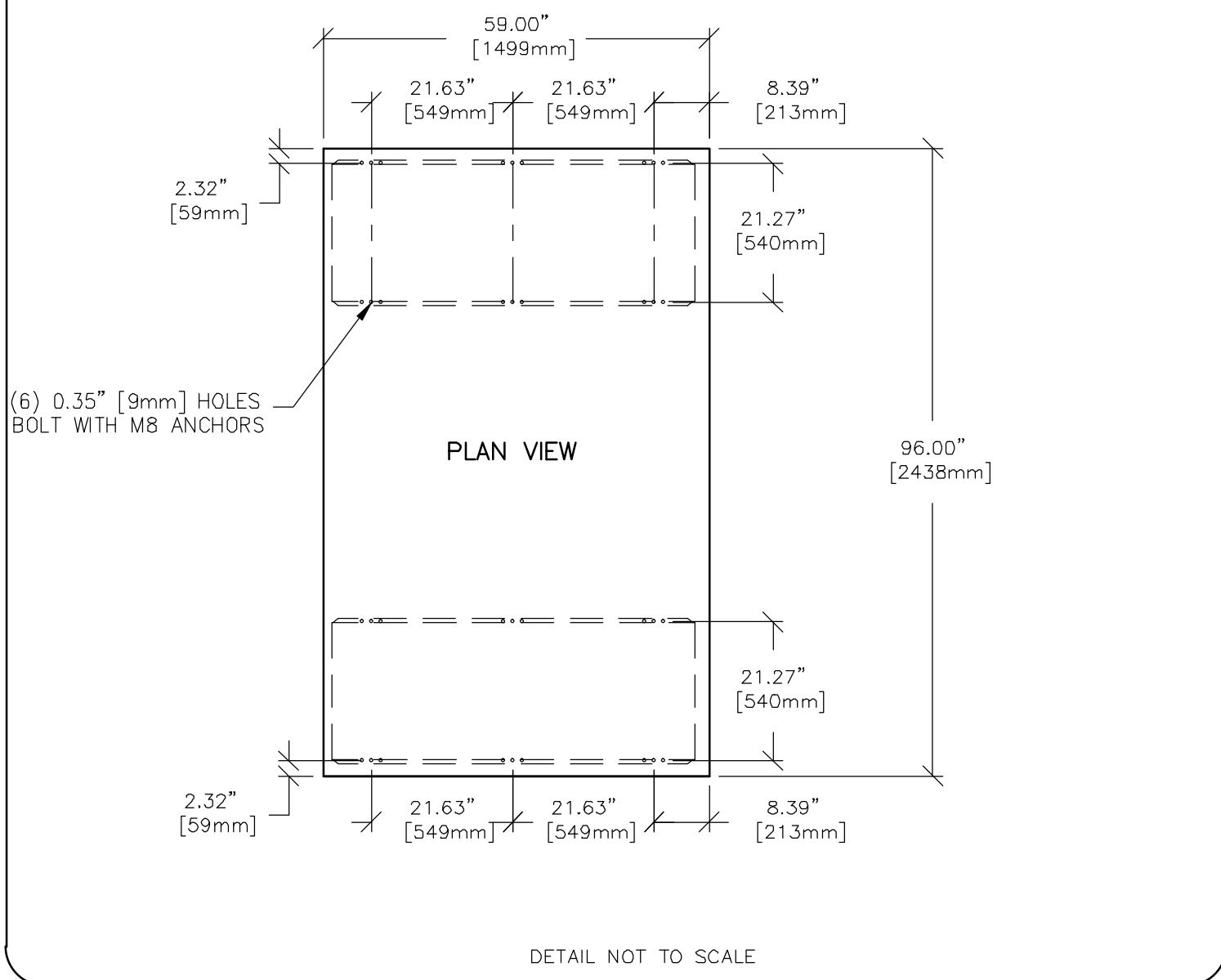
TYPICAL WALL SUPPORT ELEVATIONS



SUPPORT DETAIL
CHILLER SYSTEM MOUNTING PATTERN

M30-88S

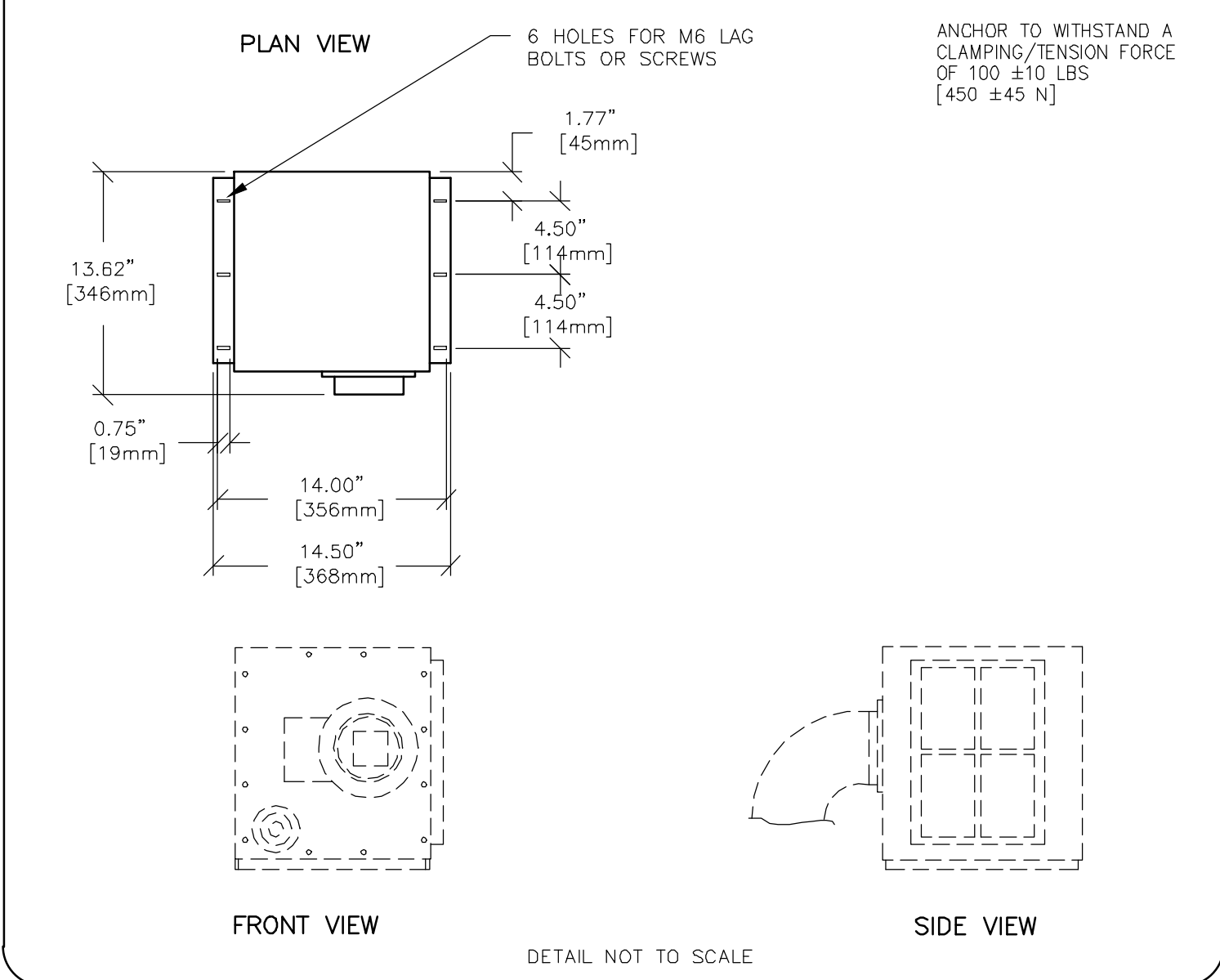
REV. DATE: 10/09/03



SUPPORT DETAIL
BLOWER BOX FLOOR MOUNTING PATTERN

M30-00G

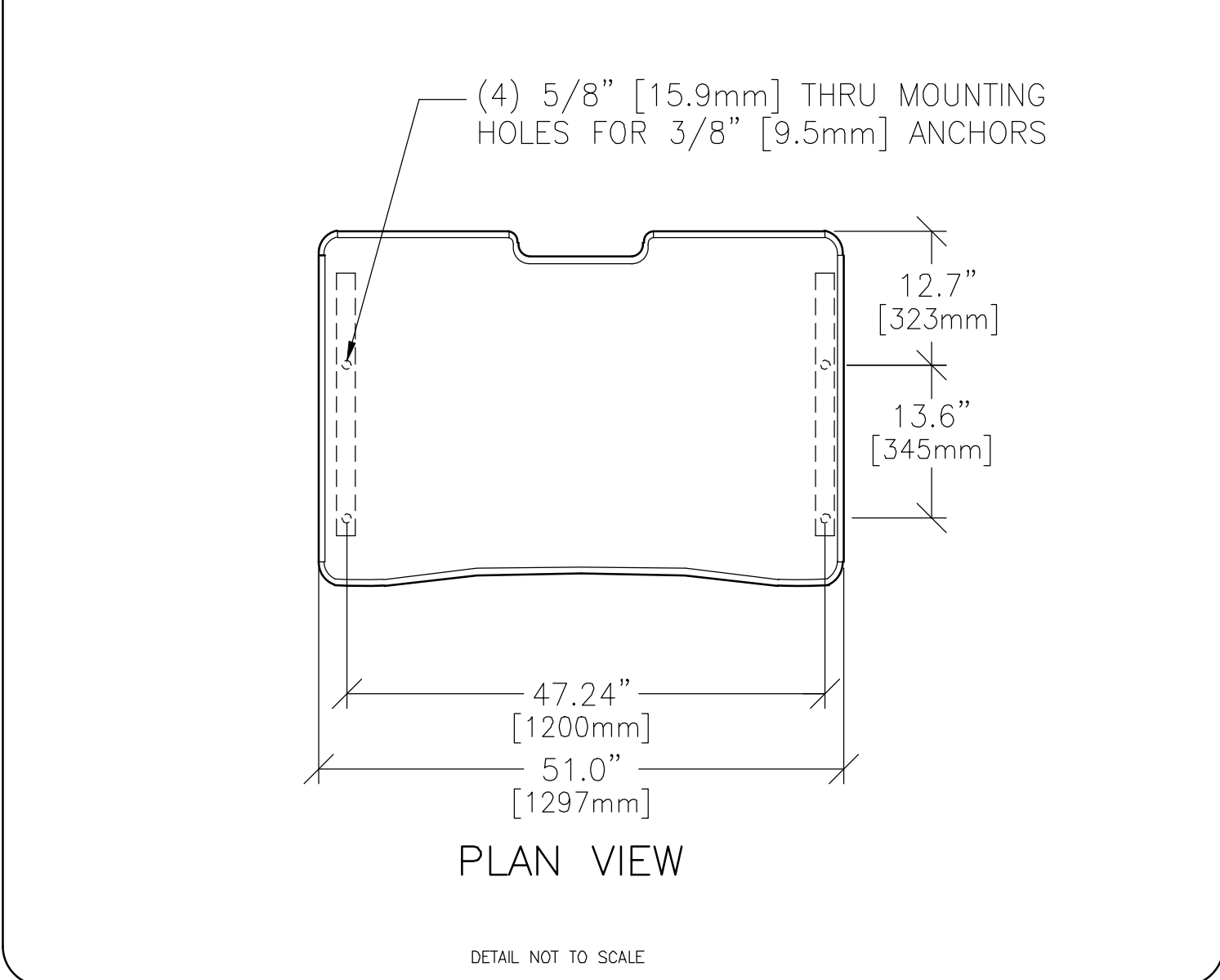
REV. DATE: 04/05/01



SUPPORT DETAIL
OPERATOR WORKSPACE FLOOR MOUNTING

M05-15G

REV. 00: 01/23/08



ACOUSTICS AND VIBRATION GUIDELINES: 3.0T MAGNET

M66-30A

REV. DATE: 08/22/05

SYSTEM ACOUSTIC NOISE LEVELS

ANY GE FACTORY-INSTALLED PROTOCOL CAN BE MODIFIED BY OPERATORS, WHICH CAN INCREASE OR DECREASE ACOUSTIC SPL (SOUND PRESSURE LEVEL), OR OPERATORS MAY CREATE THEIR OWN PROTOCOL WHICH COULD PRODUCE A HIGHER OR LOWER ACOUSTIC SPL AS STATED UNDER OPERATING CONDITIONS CONDITION 1 BELOW. TYPICAL SCANS GENERATE ACOUSTIC LEVELS AS STATED UNDER OPERATING CONDITIONS CONDITION 2 BELOW. IN ADDITION, THE EXPOSURE TIMES ARE COMPLETELY UNDER OPERATOR CONTROL. CONSEQUENTLY HEARING PROTECTION IS REQUIRED FOR ALL PEOPLE IN THE MAGNET ROOM DURING SCANS TO PREVENT HEARING IMPAIRMENT. ACOUSTIC LEVELS MAY EXCEED 99 dBA. AGAIN, FOR MORE INFORMATION ABOUT RECOMMENDED SAFETY PROCEDURES REGARDING PATIENT EXPOSURE TO MR-GENERATED ACOUSTIC NOISE, SEE THE MR SAFETY GUIDE INCLUDED IN THE USER MANUAL.

AMBIENT CONDITIONS

TO REDUCE ANY BACKGROUND NOISE DUE TO CABINET BLOWERS, ETC., ACOUSTICAL CEILINGS, WALLS, AND FLOORS ARE RECOMMENDED. THE FOLLOWING ARE TYPICAL NOISE LEVEL READINGS:

- o OPERATOR AREA 55 dBA
- o EQUIPMENT ROOM 75 dBA
- o MRCC (MR COMMON CHILLERS)..... 69.1 dBA
- o GWHX OPTION

OPERATING CONDITIONS

CONDITION 1

MR SCANNERS UNDER "WORST-CASE" OPERATING CONDITIONS, COULD GENERATE ACOUSTIC LEVELS (AS MEASURED AT THE MAGNET ISO-CENTER) AS FOLLOWS:

AVERAGE SPL 120 dBA SPL = SOUND PRESSURE LEVEL
PEAK 126 dB
FREQUENCY RANGE 20 TO 20K Hz

CONDITION 2

MR SCANNERS FOR MANY TYPICAL CLINICAL SCANNING SCENARIOS THOUGH, GENERATE ACOUSTIC LEVELS (AS MEASURED AT THE MAGNET ISO-CENTER) SOMEWHAT LOWER AS FOLLOWS:

AVERAGE SPL 90 TO 105 dBA
PEAK 110 TO 120 dB
FREQUENCY RANGE 20 TO 20K Hz

AS RECENT HISTORY HAS SHOWN AN EVOLUTION TOWARDS MORE POWERFUL (AND HENCE LOUDER) GRADIENT SUBSYSTEMS, ARCHITECTS SHOULD CONSIDER THE ACOUSTIC LEVELS STATED IN THE "WORST CASE" CONDITION 1, MENTIONED ABOVE. NOTE THAT HIGH-FIELD SIGNA SYSTEMS HAVE THE ABILITY TO RUN SCANNING PROTOCOLS WHICH CAN GENERATE ACOUSTIC LEVELS OVER THE ENTIRE HUMAN PERCEPTIBLE FREQUENCY RANGE (20 TO 20K HZ), THEREFORE ATTENUATION OVER THIS ENTIRE RANGE MUST BE CONSIDERED FOR SITE DESIGN.

VIBRATION

- o THE MAGNET MAY BE SENSITIVE TO VIBRATIONS IN THE FREQUENCY RANGE OF 0.5 TO 45 Hz DEPENDING ON THE AMPLITUDE OF THE VIBRATION. IN THE PHYSICAL AREA WHERE THE MR SYSTEM IS TO BE LOCATED, EVERY PRECAUTION MUST BE TAKEN TO ENSURE THAT THE VIBRATION IS MINIMIZED. IN THE MAGNET SITING AREA, THE STRUCTURAL STABILITY AND BEHAVIORAL CHARACTERISTICS CAN BE ASSESSED. THE VIBRATION TESTS OUTLINED CAN BE USED TO ASSESS THE VIBRATION ENVIRONMENT. SITES WHICH CURRENTLY PASS THE VIBRATION STABILITY CRITERIA MAY PROCEED WITH INSTALLATION. SITES WHICH HAVE MARGINAL VIBRATION STABILITY REQUIRE SOURCE ISOLATION OR STRUCTURAL MODIFICATIONS. THEN IT IS THE CUSTOMER'S RESPONSIBILITY TO CONTRACT A VIBRATION CONSULTANT OR QUALIFIED ENGINEER TO IMPLEMENT DESIGN MODIFICATIONS TO MEET THE SPECIFIED LIMITS. WITH THE VIBRATION CONSULTANT PRESENT, LOCAL GE FIELD SERVICE AND/OR INSTALLATION SPECIALIST MUST VERIFY THE ELIMINATION/REDUCTION OF ALL IDENTIFIED SOURCES DO IMPROVE THE VIBRATION ENVIRONMENT. GE CAN ASSIST IN INTERPRETING MARGINAL SITE TEST RESULTS AND PREDICTING THE IMPACT ON SYSTEM PERFORMANCE. ULTIMATELY IT REMAINS THE CUSTOMER/ARCHITECT/ENGINEER RESPONSIBILITY TO DESIGN SITE SOLUTION.
- o 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, HELIPORTS AND HOSPITAL PHYSICAL PLANTS CONTAINING PUMPS, MOTORS, AIR HANDLING EQUIPMENT, OR AIR CONDITIONING EQUIPMENT.

PLEASE NOTE THAT OTHER ITEMS NOT LISTED COULD ALSO BE POTENTIAL SOURCES OF VIBRATION. VIBRATION ISOLATION IS RECOMMENDED AT FLOOR CONNECTION POINTS OF THE AIR CONDITIONING UNIT(S) TO BE INSTALLED FOR THE PURPOSE OF COOLING THE MR SUITE. ISOLATION OF THE MR MAGNET IS NOT A RECOMMENDED SOLUTION FOR REDUCING ENVIRONMENTAL VIBRATION.

- o 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.

MAGNET SITING REQUIREMENT

- o THE MAGNET MUST BE RIGIDLY BOLTED TO THE FLOOR. VIBRATION MEASUREMENTS ON THE MAGNET SUPPORT MUST MEET THE GUIDELINES BELOW. CUSTOMER/CONTRACTOR IS RESPONSIBLE FOR THE PROPER MAGNET ANCHORING.

TRANSIENT VIBRATION

- o TIME HISTORY VIBRATION LEVELS (WITH ALL STEADY STATE VIBRATION SOURCES POWERED DOWN) EXCEEDING TRIGGER OF **0.0005 g, ZERO TO PEAK** MUST BE FULLY ANALYZED TO ASSESS THE POTENTIAL IMPACT TO THE BUILDING STRUCTURE. THE BUILDING (SPECTRAL) RESPONSE IMMEDIATELY FOLLOWING THE **0.0005 g, ZERO TO PEAK TRIGGER LEVEL** (ENDING AT THE DECAY OF THE VIBRATION SIGNAL) MUST NOT CAUSE THE SITE ENVIRONMENT TO EXCEED THE **STEADY STATE VIBRATION** LEVELS DEFINED BELOW.

STEADY STATE VIBRATION

- o THE MAXIMUM STEADY STATE VIBRATION TRANSMITTED THROUGH THE FLOOR MUST NOT EXCEED THE FOLLOWING (ABOVE AMBIENT BASELINE):
 - o 75 x 10⁻⁶g rms 0-26 Hz o 500 x 10⁻⁶g rms 31-40 Hz
 - o 100 x 10⁻⁶g rms 26-31 Hz o 700 x 10⁻⁶g rms 40-50 Hz

IN ORDER TO ENSURE THAT ANY DISCRETE SIGNAL REPRESENTS A REAL MECHANICAL VIBRATION SOURCE, THE SIGNAL MUST HAVE A BANDWIDTH THAT TYPICALS DYNAMIC SIGNAL RESPONSE.

FLOOR MOUNTING DETAIL: 3.0T MAGNET

M6630C

REV. DATE: 09/08/10

REFER TO SHEET A1 FOR ACTUAL MAGNET ORIENTATION

PLAN VIEW

OUTLINE OF VIBROACOUSTIC DAMPING OPTION: WHEN THE MAGNET IS INSTALLED WITH THE VIBROACOUSTIC DAMPING OPTION THEN THE MAGNET IS BOLTED TO THE VIBROACOUSTIC DAMPING OPTION MATS. FOR VIBROACOUSTIC DAMPING OPTION MOUNTING IN SEISMIC ZONES REFER TO SEISMIC DRAWINGS AVAILABLE ON REQUEST FROM YOUR LOCAL GE HEALTHCARE PROJECT MANAGER, INSTALLATIONS.

TABLE DOCK REBAR FREE AREA

DOCK ASSEMBLY ANCHOR BOLTS SHOULD BE BETWEEN 1.75 IN. [44 MM] AND 2.75 IN. [70 MM] ABOVE THE FINISHED FLOOR.

FLOOR STRUCTURE GUIDELINES:

THE RECOMMENDED MAGNET ROOM FLOOR SHOULD BE POURED SLAB ON-GRADE WITH POLYPROPYLENE FIBER IMPREGNATED OR EPOXY REINFORCED CONCRETE. NON-MAGNETIC STAINLESS STEEL REBAR OR FIBER-GLASS REBAR MAY ALSO BE USED AS A REINFORCING MATERIAL. IN GENERAL, I-BEAMS LOCATED NEAR THE MAGNET IS PROHIBITED. STEEL REINFORCING RODS OR METAL DECK SHOULD BE AVOIDED ESPECIALLY WITHIN THE 50 GAUSS ZONE OF THE MAGNET. IF THESE MATERIALS EXIST AT THE SITE, OR IF INSTALLATION OF THESE MATERIALS IS CONTEMPLATED, THEY MUST BE TAKEN INTO ACCOUNT IN THE STRUCTURAL STEEL EVALUATION OF THE SITE. REFER TO THE PREINSTALLATION MANUAL FOR MORE INFORMATION. IF NECESSARY, THE SYSTEMS CAN CORRECT FOR SOME STEEL IN THE FLOOR. THIS INCLUDES STEEL REBARS AND OTHER STEEL BUILDING COMPONENTS WITHIN A 10 FT. x 12 FT. [3.1M x 3.6M] AREA DIRECTLY BELOW THE MAGNET. THE TABLE BELOW ILLUSTRATES THE VARYING LIMITS OF MASS OF STEEL IN CLOSE PROXIMITY TO THE MAGNET ISOCENTER WHEN USING NORMAL SHIMMING TECHNIQUES. THE DATA IS BASED ON A SQUARE AREA LOCATED DIRECTLY BENEATH THE MAGNET AND CALCULATING AN EQUIVALENT DENSITY FROM THE TOTAL VOLUME OF EXISTING STRUCTURAL STEEL. IF NON-UNIFORM STEEL IS PRESENT (I.E. BEAMS) THEN THE STEEL MUST BE ANALYZED BY THE GEHC MR SITING AND SHIELDING TEAM.

MAGNET FRONT

MAGNET REAR

SIDE VIEW

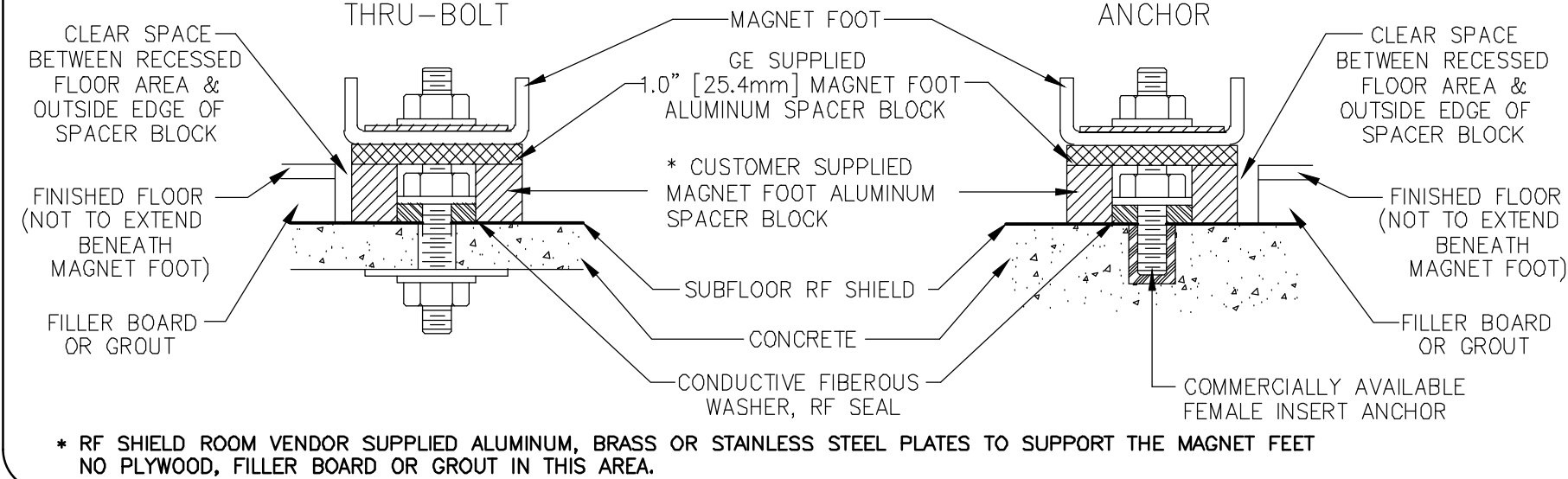
MAGNET FRONT

MAGNET REAR

VIBROACOUSTIC DAMPING OPTION

FINISHED MAGNET ROOM FLOOR HEIGHT

ATTACHMENT METHODS



GENERAL NOTES:

STEEL REBAR MUST NOT BE POSITIONED IN SHADED AREAS NOTED AS "REBAR FREE" TO PREVENT INTERFERENCE WITH MOUNTING BOLTS.

MAGNET MOUNTING AND ANCHOR HARDWARE REQUIREMENTS ARE THE CUSTOMER/CONTRACTOR RESPONSIBILITY.

RF SCREEN ROOM VENDOR MUST PERFORM A PULL TEST ON EACH ANCHOR PRIOR TO MAGNET DELIVERY TO VERIFY THE CLAMPING/TENSION REQUIREMENTS.

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: STRUCTURAL DETAILS

MODALITY TYPE: 3.0T SIGNA HDx

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 THE EQUIPMENT IS NOT IN CONFLICT WITH ANY EXISTING STRUCTURAL OR MECHANICAL ELEMENTS. THE USER SHALL BE RESPONSIBLE FOR ACTUAL CONSTRUCTION PURPOSES; HOWEVER, THE COMPANY CANNOT ACCEPT RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

8-214F

TYPICAL LAYOUT

PROJECT TITLE:

PROJECT: 8-214F

REVISION: 05

DATE: 12.Jan.12

DRAWN BY: PMM

CHECKED BY: PMM

REVISION HISTORY:

SHEET S2

This drawing is based on Sketch No.: 8-214

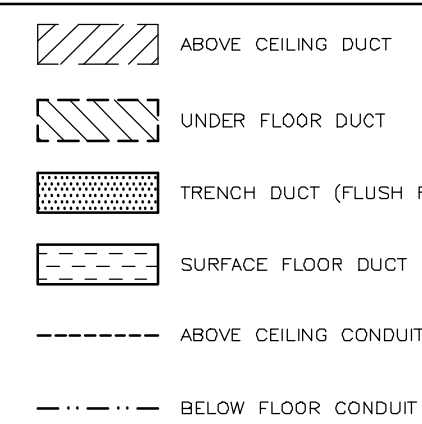
PM R9

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

ELECTRICAL PLAN

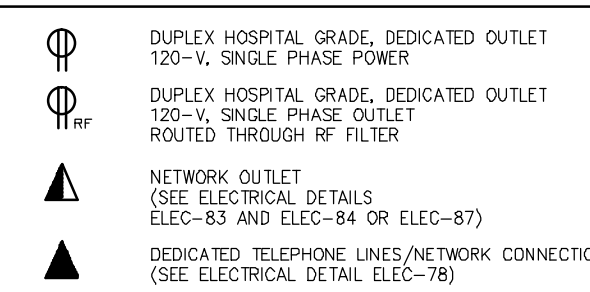
RECOMMENDED CEILING HEIGHT = 8'-9"

DUCT HATCHING LEGEND



ELECTRICAL OUTLET LEGEND

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



FEEDER TABLE — SIGNA TWINSPEED

- CALCULATIONS BASED UPON NOMINAL VOLTAGE, WIRE SIZE IN AWG.
- 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 [35.50 mm].
- THE GROUNDING CONDUCTOR WILL BE THE SAME SIZE AS THE POWER FEEDER 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 ACCO/PDU CABINET.
- FOR A FULL SYSTEM UPS REFER TO ELECTRICAL DETAILS FOR UPS FEEDER WIRES.
- 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		380-440 400		374-456 415		432-528 480	
	FEEDER	GROUND	FEEDER	GROUND	FEEDER	GROUND	FEEDER	GROUND
100	1/0	6	1/0	6	1/0	6	1/0	6
150	1/0	6	1/0	6	1/0	6	1/0	6
200	1/0	6	1/0	6	1/0	6	1/0	6
250	2/0	4	2/0	4	2/0	4	1/0	6
300	3/0	4	3/0	4	3/0	4	2/0	4
350	4/0	2	4/0	2	4/0	2	3/0	4
400	300M	2	250M	2	250M	2	4/0	2
450	300M	2	300M	2	300M	2	4/0	2

REV. DATE: 09/24/08

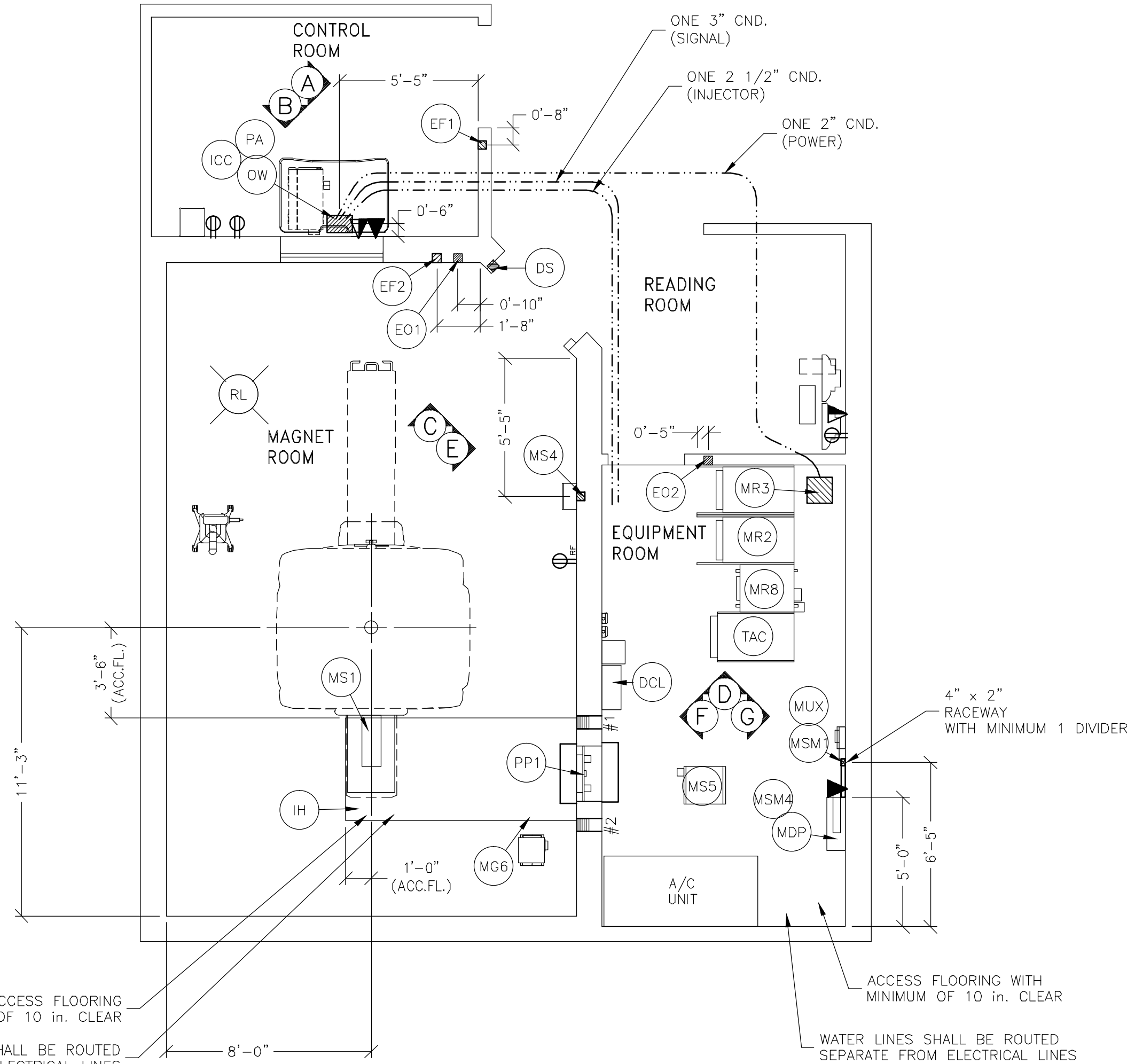
NOTE: REFER TO CONDUIT LEGEND FOR ALL ADDITIONAL CONDUITS NOT SHOWN ON DRAWING.

JUNCTION POINT NOTES

- ALL JUNCTION BOXES, CONDUIT, DUCT, DUCT DIVIDERS, SWITCHES, CIRCUIT BREAKERS, ETC., ARE TO BE SUPPLIED AND INSTALLED BY CUSTOMER'S ELECTRICAL CONTRACTOR.
- CONDUIT AND DUCT RUNS SHALL HAVE SWEEP RADIUS BENDS
- CONDUITS AND DUCT ABOVE CEILING OR BELOW FINISHED FLOOR MUST BE INSTALLED AS NEAR TO CEILING OR FLOOR AS POSSIBLE TO REDUCE RUN LENGTH.
- CEILING MOUNTED JUNCTION BOXES ILLUSTRATED ON THIS PLAN MUST BE INSTALLED FLUSH WITH FINISHED CEILING.
- ALL DUCTWORK MUST MEET THE FOLLOWING REQUIREMENTS:
 1. DUCTWORK SHALL BE METAL WITH DIVIDERS AND HAVE REMOVABLE, ACCESSIBLE COVERS.
 2. DUCTWORK SHALL BE CERTIFIED/RATED FOR ELECTRICAL POWER PURPOSES.
 3. DUCTWORK SHALL BE ELECTRICALLY AND MECHANICALLY BONDED TOGETHER IN AN APPROVED MANNER.
 4. PVC AS A SUBSTITUTE MUST BE USED IN ACCORDANCE WITH ALL LOCAL AND NATIONAL CODES.
- ALL OPENINGS IN ACCESS FLOORING ARE TO BE CUT OUT AND FINISHED OFF WITH GROMMET MATERIAL BY THE CUSTOMER'S CONTRACTOR.
- GENERAL CONTRACTOR TO INSERT PULL CORDS FOR ALL CABLE RUN CONDUITS BETWEEN THE EQUIPMENT ROOM AND THE OPERATORS CONTROL ROOM.
- 10 FOOT PIGTAILS AT ALL JUNCTION POINTS.
- ALL WIRING MUST BE THHN OR TFFN STRANDED COPPER THERMOPLASTIC 600 VOLT OR EQUIVALENT INSULATION. ALUMINUM OR SOLID WIRES ARE NOT ALLOWED.
- GROUNDING IS CRITICAL TO EQUIPMENT FUNCTION AND PATIENT SAFETY. SITE MUST CONFORM TO WIRING SPECIFICATIONS SHOWN ON THIS PLAN.

JUNCTION POINT DESCRIPTIONS

POINT	DESCRIPTION	QTY.	THE FOLLOWING MATERIALS ARE TO BE SUPPLIED AND INSTALLED BY THE CUSTOMER'S ELECTRICAL CONTRACTOR	
			HARDWARE	DETAIL NO., SHT. E3
DCL	DC LIGHTING	1	SEE DETAILS	ELEC-54
DS	RF DDDR SWITCH	1	1 AVAILABLE CABLE FROM GEMSG. CALL 800-558-3102 OR LOCAL GE INSTALLATION PROJECT MGR	
EF1	RF EXHAUST FAN SWITCH	1	1 SINGLE GANG BOX	ELEC-55
EF2	RF EXHAUST FAN SWITCH	1	1 RF DDDR SWITCH RATED FOR 24 VOLTS AND 750 MILLIAMPERES, NORMALLY OPEN (OFF) WHEN DOOR IS OPEN	ELEC-55
ED1	EMERGENCY OFF BUTTON	1	1 COVERPLATE	ELEC-16
ED2	EMERGENCY OFF BUTTON	1	1 SINGLE GANG BOX	ELEC-16
ICC	INJECTOR DISPLAY	1	1 SAME ROUTING AS OW	
IH	INJECTOR HEAD	1	1 12 IN. OF GROMMET MATERIAL FOR A 12 X 3 IN. OPENING IN ACCESS FLOOR OR DUCT	ELEC-10
MDP	MAIN DISCONNECT	1	1 12 IN. GROMMET MATERIAL FOR A 12 X 3 IN. OPENING IN ACCESS FLOOR OR DUCT	ELEC-10
MG6	BLOWER BOX	1	1 40 IN. OF GROMMET MATERIAL FOR A 12 X 8 IN. OPENING IN ACCESS FLOOR	ELEC-10
MR2	RFS CABINET	1	1 28 IN. OF GROMMET MATERIAL FOR A 10 X 4 IN. OPENING IN ACCESS FLOOR	ELEC-10
MR3	HFD/PDU CABINET	1	1 SPLIT COVERPLATE	ELEC-10
MR8	NARROW BAND RF AMPLIFIER CABINET	1	1 28 IN. OF GROMMET MATERIAL FOR A 10 X 4 IN. OPENING IN ACCESS FLOOR	ELEC-10
MRCC	COOLING SYSTEM	1	1 COVERPLATE	ELEC-8
MS1	MAGNET	1	1 6 X 6 X 4 IN. BOX	ELEC-10
MS4	MAGNET RUNDOWN UNIT	1	1 4 X 4 X 4 IN. BOX	ELEC-8
MS5	SHIELD COOLER CABINET	1	1 32 IN. OF GROMMET MATERIAL FOR A 10 X 4 IN. OPENING IN ACCESS FLOOR	ELEC-10
MSM1	MAGNET MONITOR	1	1 FITTINGS AS REQUIRED	ELEC-78
MSM4	MAGNET MONITOR UPS	1	1 EXTERNALLY CONNECTED	
MUX	MULTIPLEXER	1	1 EXTERNALLY CONNECTED	
OW	OPERATOR WORKSPACE	1	1 SPLIT COVERPLATE	ELEC-13
PA	PATIENT ALERT CONTROL BOX	1	1 3 1/2 IN. DIA. CHASE NIPPLE	
PP1	RF PENETRATION PANEL	1	1 12 IN. X 8 IN. X 6 IN. BOX	ELEC-10
RCP	REMOTE CONTROL FOR CHILLER SYSTEM	1	1 SAME ROUTING AS OW	ELEC-52
RL	MAGNET ROOM LIGHTS	1	1 LOCKNUT	
TAC	ACCESSORY CABINET	1	1 INCANDESCENT LIGHT FIXTURE	ELEC-10



ADDITIONAL CONDUIT RUNS (CONTRACTOR SUPPLIED AND INSTALLED)

CONDUITS REQUIRED FOR BASE SYSTEM

REV DATE: 01/01/08			
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 PP1	ONE 3/4" CND.	
MDP	TO A/C	ONE 1/2" CND.	
DS	TO MR2	ONE 3/4" CND.	
E01	TO PP1	ONE 3/4" CND.	
MS4	TO PP1	ONE 1" CND.	
MS4	TO RF #1 FILTER	ONE CND. AS REQ'D	
RL	TO 120-V 10 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

CONDUITS REQUIRED FOR MRCC OPTION

REV DATE: 01/01/08		
MRCC	TO RCP	ONE 3/4" CND.
MRCC	TO MDP	CONDUIT AS REQUIRED

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
MDP > MRCC	3-NO. 10 BLACK, 1-NO. 10 GREEN < 1 SET FOR EACH UNIT >
MR3 > RF GROUND STUD	1-GREEN < NO. 1/0 MINIMUM >
MDP > MR3	3-NO. 2 BLACK, 1-NO. 1/0 GREEN < MAX. 20 FT. [6.095MM] >
MDP > A/C UNIT	1-NO. 12 BLACK, 1-NO. 12 WHITE, 1-NO. 12 GREEN
MDP > ED2	1-BLACK, 1-RED, 1-GREEN - < SIZE AS REQUIRED >
480-V > MDP	3-BLACK, 1-WHITE, 1-GREEN - REFER TO FEEDER TABLE
RF FAN > EF1	1-BLACK, 1-WHITE - < SIZE AS REQUIRED >
EF1 > EF2	1-BLACK, 1-WHITE - < SIZE AS REQUIRED >
RF FILTER > MS4	1-BLACK, 1-WHITE, 1-GREEN - < SIZE AS REQUIRED >
120-V > RF FILTER	1-BLACK, 1-WHITE, 1-GREEN - < SIZE AS REQUIRED >
RF FILTER > RL	1-BLACK, 1-WHITE, 1-GREEN - < SIZE AS REQUIRED >
CONVERTER > RF FILTER	1-BLACK, 1-WHITE, 1-GREEN - < SIZE AS REQUIRED >
EMERG PWR > CONVERTER	1-BLACK, 1-WHITE, 1-GREEN - < SIZE AS REQUIRED >
RF GND STUD > RF FILTER	1-GREEN < SIZE AS REQUIRED FOR EACH FILTER >

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

SHEET TITLE: ELECTRICAL LAYOUT

MODALITY TYPE: 3.0T SIGNA HDx

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

8-214F
TYPICAL LAYOUT

PROJECT TITLE:

PROJECT 8-214F REVISION 05

DATE: 12.Jan.12
DRAWN BY: PMM
CHECKED BY: PMM

REVISION HISTORY:

SHEET

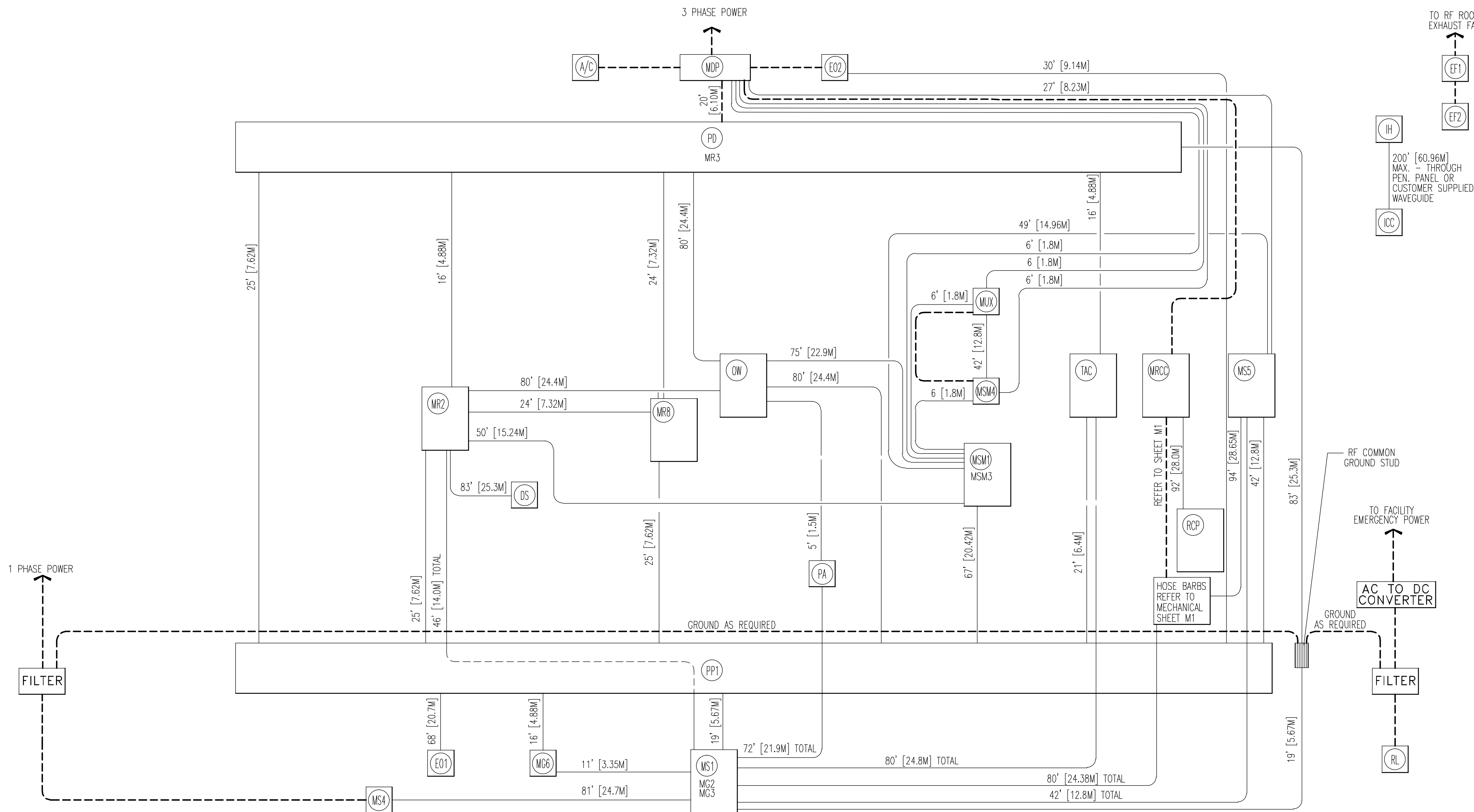
E1

WPS-102

GE Healthcare

IS Services Design Center
Milwaukee, Wisconsin

INTERCONNECT DIAGRAM



NOTE: CABLE LENGTH DATA

THE USEABLE LENGTHS OF CABLES DISPLAYED ARE FOR CABLE KIT M3333TB. IF A DIFFERENT CABLE KIT IS REQUIRED, REFER TO THE PRE-INSTALLATION DIRECTION LISTED ON SHEET C1 FOR THE LENGTHS OF CABLES IN THAT KIT.

MINIMUM BENDING RADIUS EXISTS FOR CERTAIN CABLE GROUPS. PLEASE REFER TO THE PREINSTALLATION MANUAL FOR SPECIFICATIONS FOR ALL CABLES.

A PARTIAL LIST INCLUDES:
10" BETWEEN THE MR1 AND PP1
10" BETWEEN PP1 AND MS1
8" BETWEEN THE MS5 AND MS1
7" BETWEEN SYSTEM COOLING CABINET AND MS1.

CABLE SELECTION

BASED UPON THE EQUIPMENT LAYOUT, CABLE KITM3335NYWILL NEED TO BE ORDERED.

INTERCONNECTS		RELATIVE LENGTHS BY CATALOG		
LOCATION	DESCRIPTION	M3335NY	M3335NZ	M3335P
L1	INTERCONNECTS BETWEEN PENETRATION PANEL (PP1) AND COMPONENTS IN THE MAGNET ROOM AND WITHIN MAGNET ROOM BETWEEN COMPONENTS	SHORT	SHORT	LONG
L2	INTERCONNECTS BETWEEN PENETRATION PANEL (PP1) AND COMPONENTS IN THE EQUIPMENT ROOM	SHORT	LONG	SHORT
L1/L2	INTERCONNECTS BETWEEN MAGNET ROOM AND EQUIPMENT ROOM COMPONENTS, INCLUDES INTERCONNECTS ROUTED THROUGH PP1 WAVEGUIDES AND INTERCONNECTS WHICH LENGTH PROVIDED IS CUT AT SITE AND SHARED BETWEEN MAGNET AND EQUIPMENT ROOMS	SHORT	LONG	LONG
L3	INTERCONNECTS BETWEEN COMPONENTS WITHIN EQUIPMENT ROOM	SAME LENGTH FOR ALL CATALOGS		
L4	INTERCONNECTS BETWEEN OPERATORS WORKSPACE AND PENETRATION PANEL	SAME LENGTH FOR ALL CATALOGS		
L5	INTERCONNECTS BETWEEN OPERATORS WORKSPACE AND COMPONENTS IN THE EQUIPMENT ROOM	SAME LENGTH FOR ALL CATALOGS		

POWER SPECIFICATIONS

SIGNA TWINSPED

(REV. DATE 06/16/09)

VOLTAGE

PRIMARY SOURCE IS REQUIRED FOR ALL INSTALLATIONS. RANGE OF LINE VOLTAGES: NOMINAL LINE VOLTAGE OF 380 TO 480, 3 PHASE, 50 OR 60 Hz. RECOMMENDED POWER SUPPLY: WYE-CONNECTED OR DELTA-CONNECTED (GROUNDED DELTA). MAXIMUM DAILY VOLTAGE VARIATION MUST FALL WITHIN ONE OF THE RANGES IN TABLE A.

TABLE A
ALLOWABLE
INPUT
CURRENT/
DEMAND

NOMINAL VOLTAGE	ABSOLUTE RANGE	CURRENT (AMPS)		MINIMUM STANDARD OVERCURRENT PROTECTION **
		MAX	MOMENTARY	
380	342-418	143	113	150-A
400	360-440	136	107	150-A
415	374-456	131	103	150-A
480	432-528	114	89	150-A

** OVERCURRENT PROTECTION SIZED FOR 125% CONTINUOUS CURRENT. (CALCULATIONS BASED UPON NOMINAL VOLTAGE).

PHASE-
BALANCE.

PHASE-TO-PHASE VOLTAGES MUST BE WITHIN 2 PERCENT OF THE LOWEST PHASE-TO-PHASE VOLTAGE. MAXIMUM ALLOWABLE TRANSIENT VOLTAGE EXCURSIONS ABOVE OR BELOW NOMINAL WAVE SHAPE FORM NOT TO EXCEED 200V AT A MAXIMUM DURATION OF 1 CYCLE AND FREQUENCY OF 10 TIMES PER HOUR. VOLTAGE TRANSIENT OR IMPULSE ON THE INCOMING POWER MUST BE HELD TO A MINIMUM. TRANSIENTS CAUSED BY LIGHTNING SURGES, LOAD SWITCHING, STATIC ELECTRICITY ETC. CAN CAUSE SCAN ABORTS OR, IN EXTREME INSTANCES, COMPONENT FAILURE IN THE COMPUTER SUBSYSTEM.

POWER
DEMAND

MAXIMUM POWER DEMAND AVERAGED OVER 5 SECONDS = 90.5 KVA. 90.5 KVA CONSISTING OF 61.2 KVA FOR PDU + 15.8 KVA (CONTINUOUS OPERATION) FOR MRCC + 9 KVA (CONTINUOUS OPERATION) FOR SHIELD/CRYO COOLER + 4.5 KVA FOR MAGNET MONITOR EQUIPMENT.

TABLE B
MAXIMUM
POWER
DEMAND.

DEMAND	SIGNA TWINSPED
kVa *	94.3
POWER FACTOR AT	0.9

* DEMAND INCLUDES POWER FOR ENTIRE MR SYSTEM. LINE VOLTAGE REGULATION AT MAXIMUM POWER DEMAND MUST BE LESS THAN OR EQUAL TO 2 PERCENT OR 4 PERCENT FROM POWER SOURCE.

DISTRIBUTION
TRANSFORMER

FOR A SINGLE UNIT INSTALLATION, THE MINIMUM TRANSFORMER SIZE IS 150 KVA. REGULATED TRANSFORMER IS NOT REQUIRED UNLESS VOLTAGE CHANGES EXCEED $\pm 10\%$ OVER A PERIOD OF 1 HOUR OR LONGER.

NOTE:

THE MAXIMUM POWER DEMAND FOR THE OUTDOOR MRCC/GWHX WAS USED FOR THESE CALCULATIONS. IF SO DESIRED THE CUSTOMER'S CONTRACTOR CAN DETERMINE EXACT WIRE SIZES BASED UPON MAXIMUM DEMAND FOR THE COOLING SYSTEM TO BE INSTALLED FROM THE TABLE BELOW.

CONFIGURATION	TOTAL DEMAND	COOLING SYSTEM
2 MRCC UNITS	94.3 kVa	15.8 kVa
1 MRCC UNIT	86.4 kVa	7.9 kVa
1 GWHX UNIT	78.5 kVa	0 kVa

REFER TO DIRECTION LISTED ON C1 FOR ADDITIONAL INFORMATION.

ELECTRICAL NOTES

- NOTE 1: ALL WIRES SPECIFIED SHALL BE COPPER STRANDED, FLEXIBLE, THERMO-PLASTIC, COLOR CODED, CUT 10 FOOT LONG AT OUTLET BOXES, DUCT TERMINATION POINTS OR STUBBED CONDUIT ENDS. ALL CONDUCTORS, POWER, SIGNAL AND GROUND, MUST BE RUN IN A CONDUIT OR DUCT SYSTEM. ELECTRICAL CONTRACTOR SHALL RING OUT AND TAG ALL WIRES AT BOTH ENDS. WIRE RUNS MUST BE CONTINUOUS COPPER STRANDED AND FREE FROM SPLICES. **ALUMINUM OR SOLID WIRES ARE NOT ALLOWED.**
- NOTE 2: WIRE SIZES GIVEN ARE FOR USE OF EQUIPMENT. LARGER SIZES MAY BE REQUIRED BY LOCAL CODES.
- NOTE 3: IT IS RECOMMENDED THAT ALL WIRES BE COLOR CODED, AS REQUIRED IN ACCORDANCE WITH NATIONAL AND LOCAL ELECTRICAL CODES.
- NOTE 4: CONDUIT SIZES SHALL BE VERIFIED BY THE ARCHITECT, ELECTRICAL ENGINEER OR CONTRACTOR, IN ACCORDANCE WITH LOCAL OR NATIONAL CODES.
- NOTE 5: CONVENIENCE OUTLETS ARE NOT ILLUSTRATED. THEIR NUMBER AND LOCATION ARE TO BE SPECIFIED BY OTHERS. LOCATE AT LEAST ONE CONVENIENCE OUTLET CLOSE TO THE SYSTEM CONTROL, THE POWER DISTRIBUTION UNIT AND ONE ON EACH WALL OF THE PROCEDURE ROOM. USE HOSPITAL APPROVED OUTLET OR EQUIVALENT.
- NOTE 6: GENERAL ROOM ILLUMINATION IS NOT ILLUSTRATED. CAUTION SHOULD BE TAKEN TO AVOID EXCESSIVE HEAT FROM OVERHEAD SPOTLIGHTS. DAMAGE CAN OCCUR TO CEILING MOUNTING COMPONENTS AND WIRING IF HIGH WATTAGE BULBS ARE USED. RECOMMEND LOW WATTAGE BULBS NO HIGHER THAN 75 WATTS AND USE DIMMER CONTROLS (EXCEPT MR). DO NOT MOUNT LIGHTS DIRECTLY ABOVE AREAS WHERE CEILING MOUNTED ACCESSORIES WILL BE PARKED.
- NOTE 7: **ROUTING OF CABLE DUCTWORK, CONDUITS, ETC., MUST RUN DIRECT AS POSSIBLE OTHERWISE MAY RESULT IN THE NEED FOR GREATER THAN STANDARD CABLE LENGTHS (REFER TO THE INTERCONNECTION DIAGRAM FOR MAXIMUM USABLE LENGTHS POINT TO POINT).**
- NOTE 8: CONDUIT TURNS TO HAVE LARGE, SWEEPING BENDS WITH MINIMUM RADIUS IN ACCORDANCE WITH NATIONAL AND LOCAL ELECTRICAL CODES.
- NOTE 9: A SPECIAL GROUNDING SYSTEM IS REQUIRED IN ALL PROCEDURE ROOMS BY SOME NATIONAL AND LOCAL CODES. IT IS RECOMMENDED IN AREAS WHERE PATIENTS MIGHT BE EXAMINED OR TREATED UNDER PRESENT, FUTURE, OR EMERGENCY CONDITIONS. CONSULT THE GOVERNING ELECTRICAL CODE AND CONFER WITH APPROPRIATE CUSTOMER ADMINISTRATIVE PERSONNEL TO DETERMINE THE AREAS REQUIRING THIS TYPE OF GROUNDING SYSTEM.
- NOTE 10: THE MAXIMUM POINT TO POINT DISTANCES ILLUSTRATED ON THIS DRAWING MUST NOT BE EXCEEDED.
- NOTE 11: PHYSICAL CONNECTION OF PRIMARY POWER TO GE EQUIPMENT IS TO BE MADE BY CUSTOMER'S ELECTRICAL CONTRACTOR WITH THE SUPERVISION OF A GE REPRESENTATIVE. THE GE REPRESENTATIVE WOULD BE REQUIRED TO IDENTIFY THE PHYSICAL CONNECTION LOCATION, AND INSURE PROPER HANDLING OF GE EQUIPMENT.

DIAGRAM KEY

- CUSTOMER/CONTRACTOR SUPPLIED WIRING. ROUTE IN ADEQUATE CONDUIT OR RACEWAY.
- GE FURNISHED CABLE RUNS. ROUTE IN EMPTY CONDUIT OR RACEWAY.
- 59' [18M] MAXIMUM RUN LENGTH BETWEEN JUNCTION POINTS.
Feet [Meters]

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

GE Healthcare

IS Services Design Center
Milwaukee, Wisconsin

SHEET TITLE: ELECTRICAL SPECIFICATIONS

MODALITY TYPE: 3.0T SIGNA HDx

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

8-214F
TYPICAL LAYOUT

PROJECT TITLE:

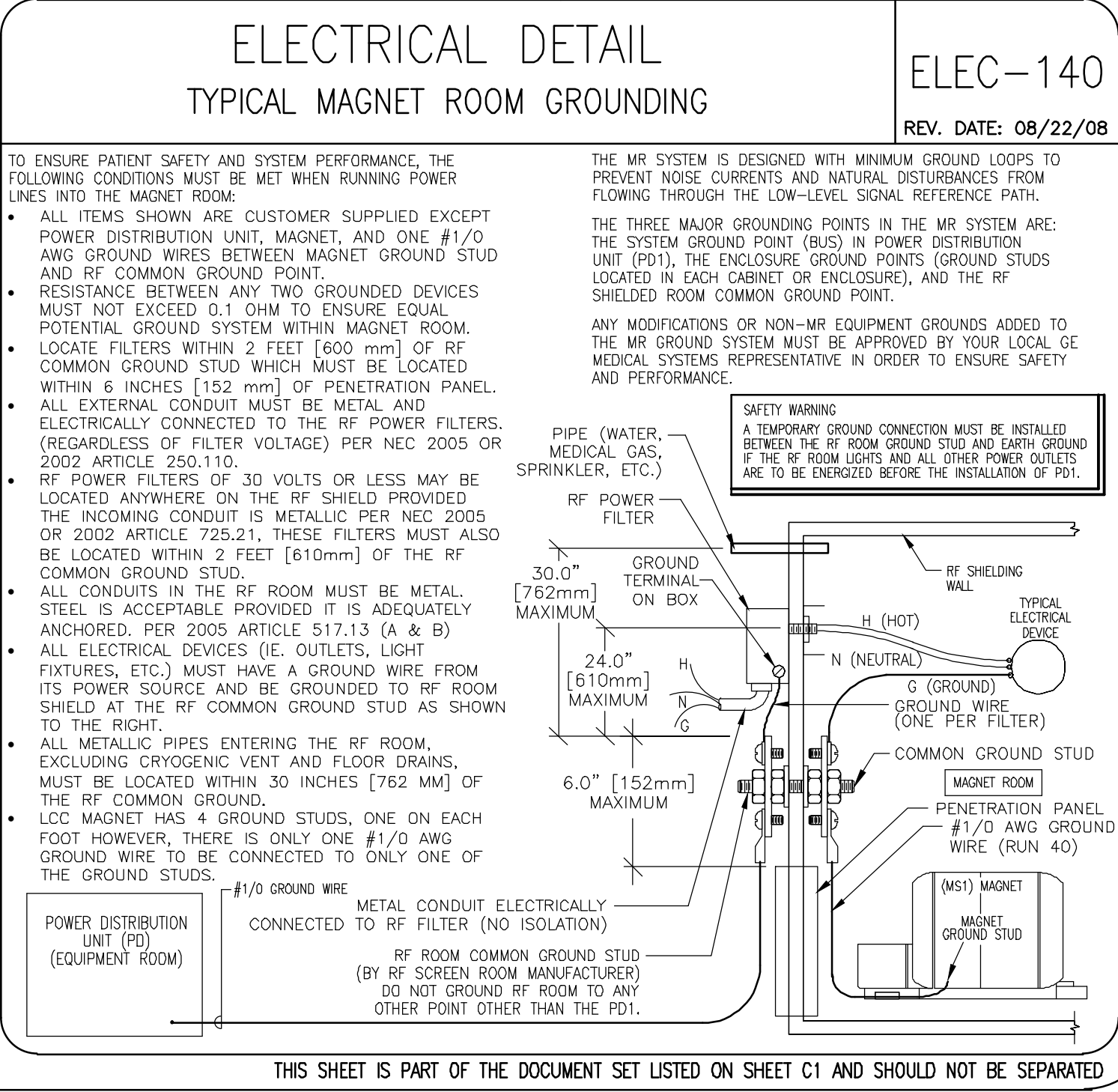
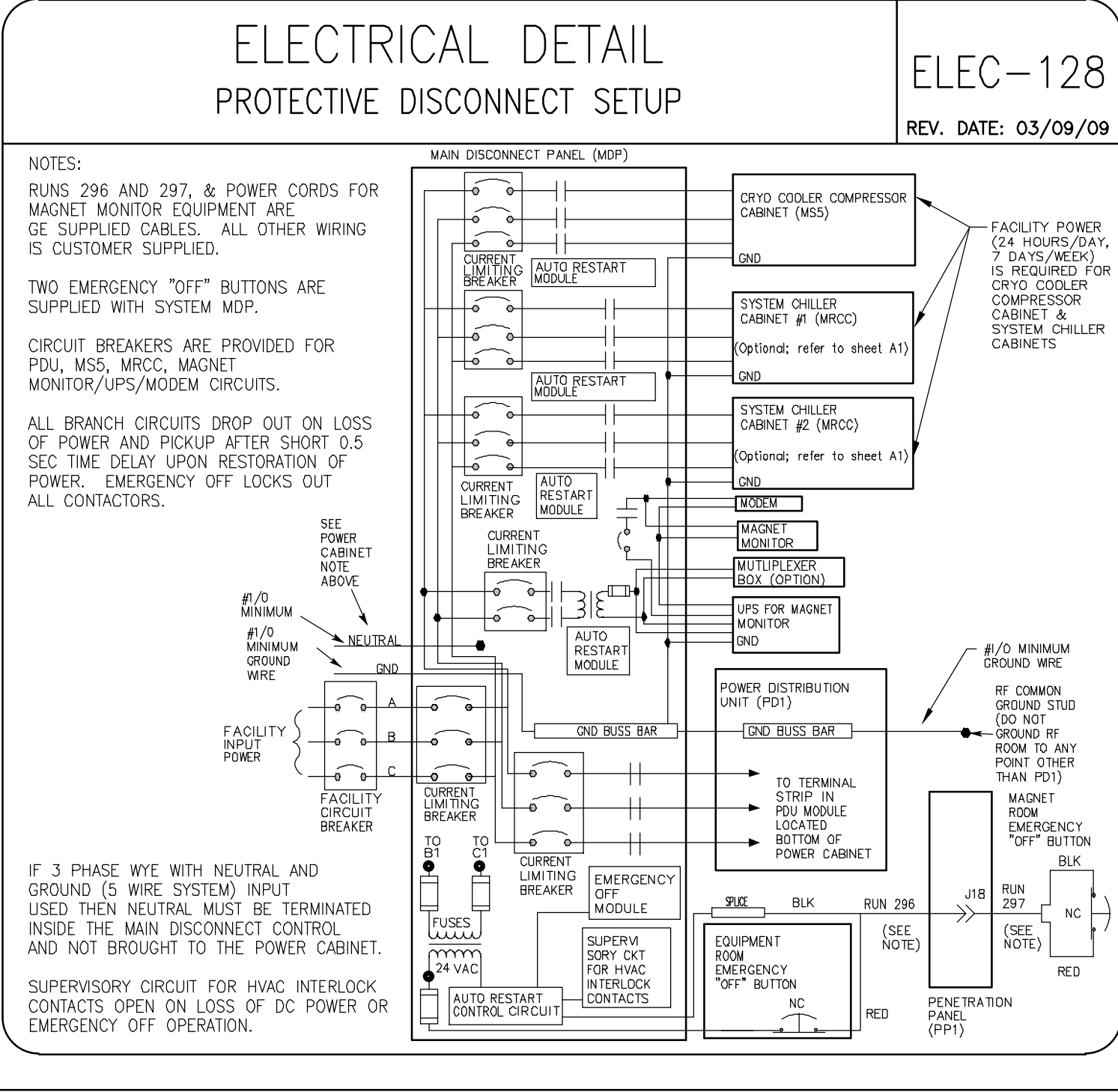
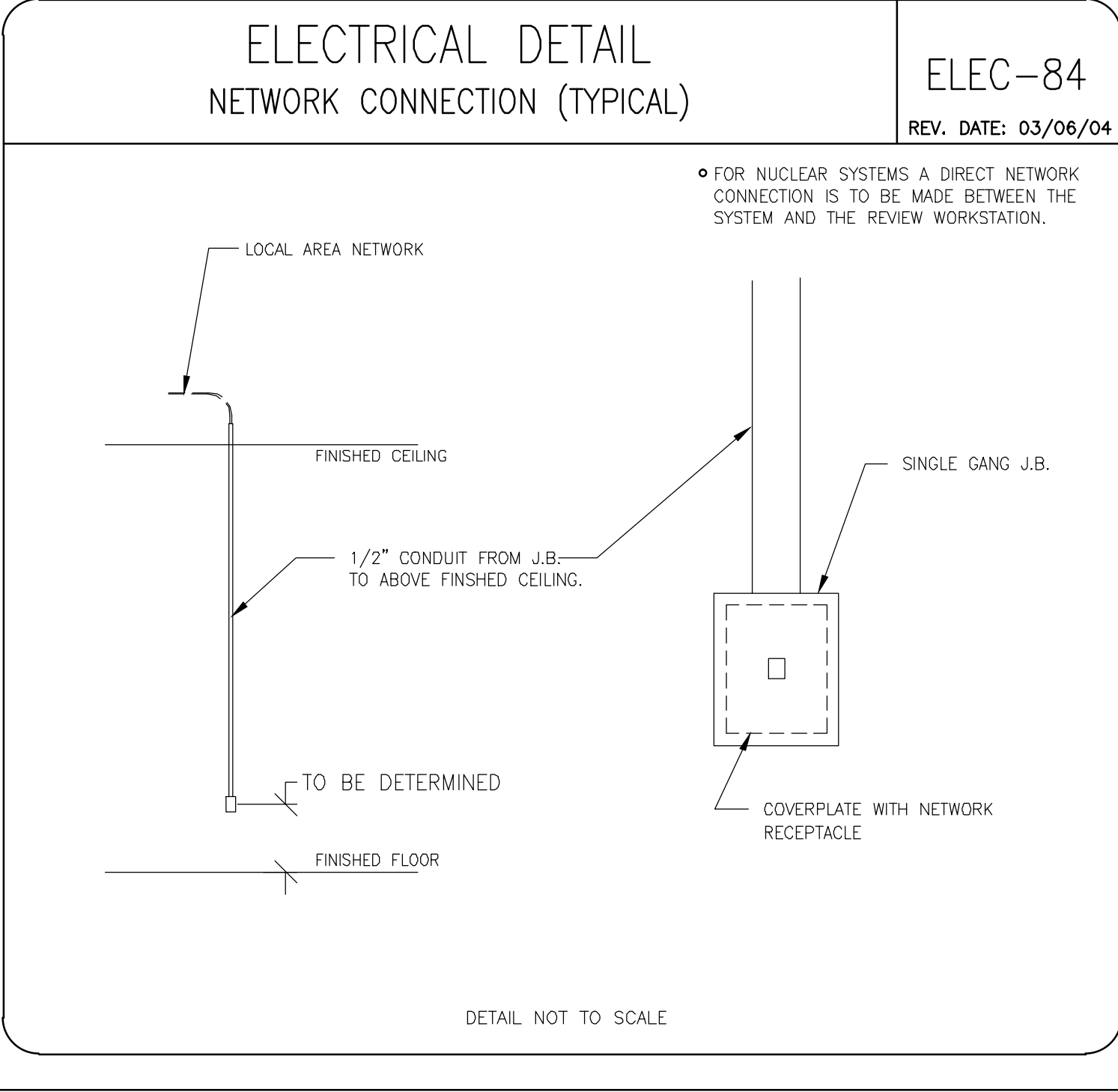
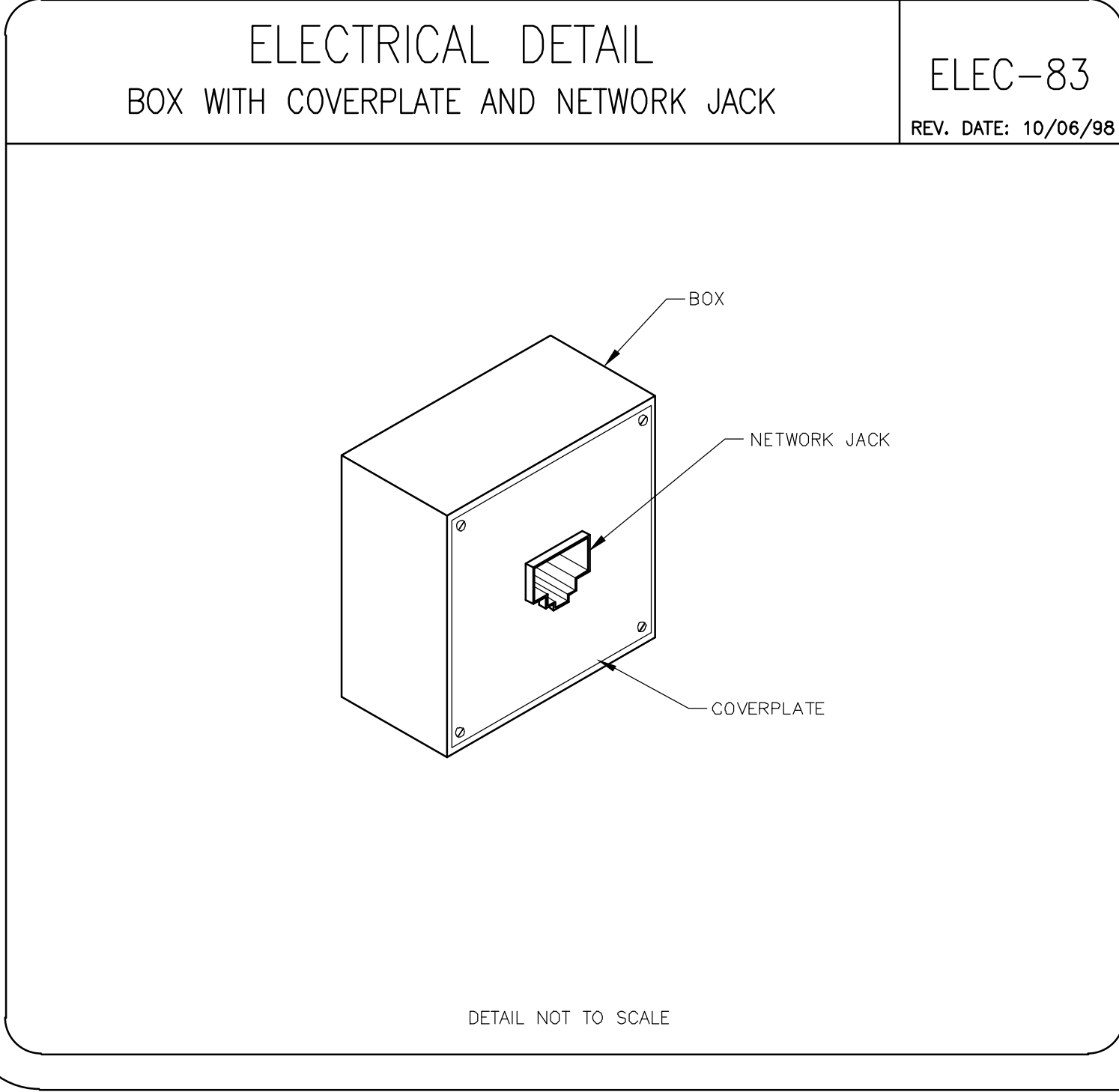
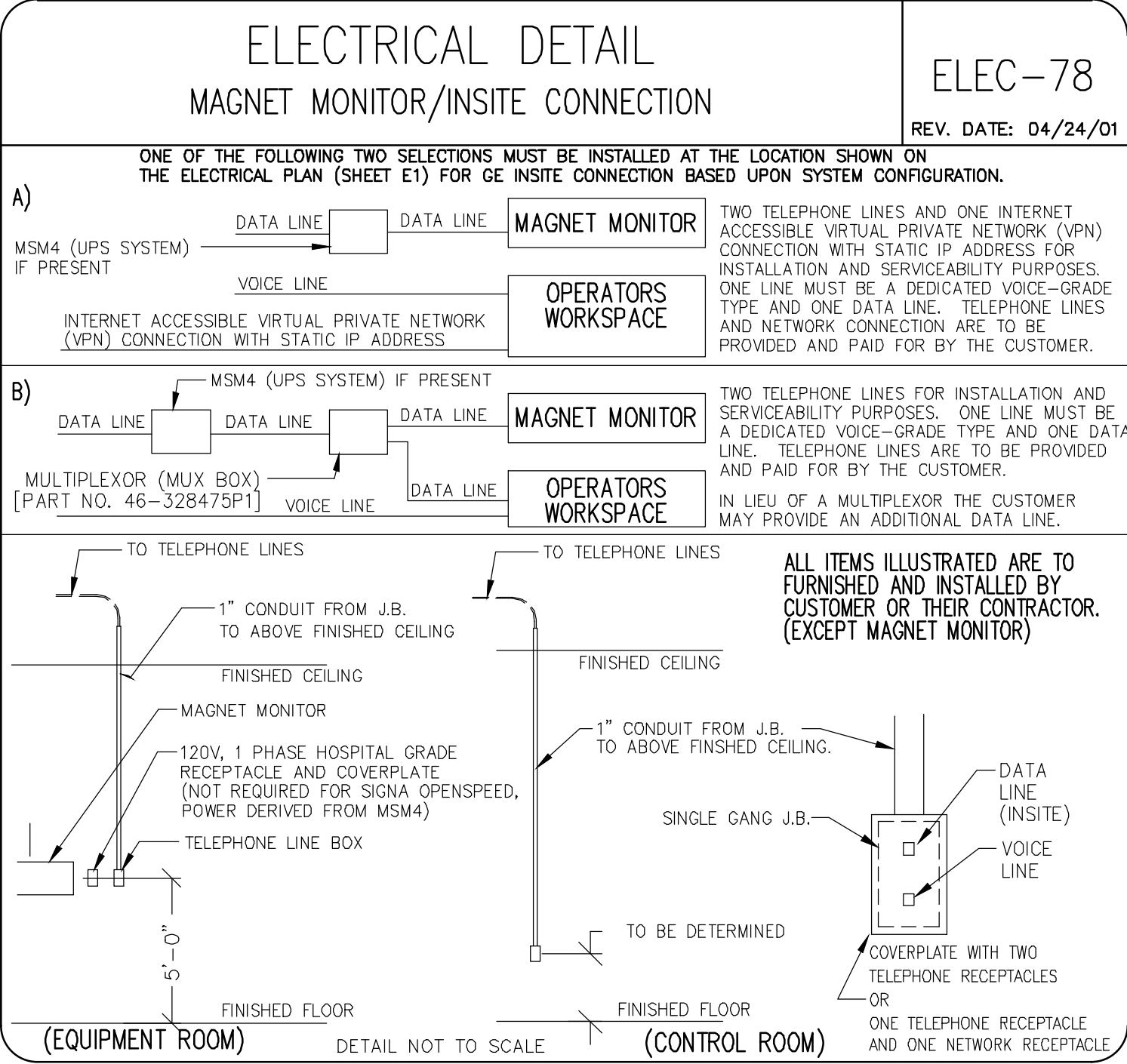
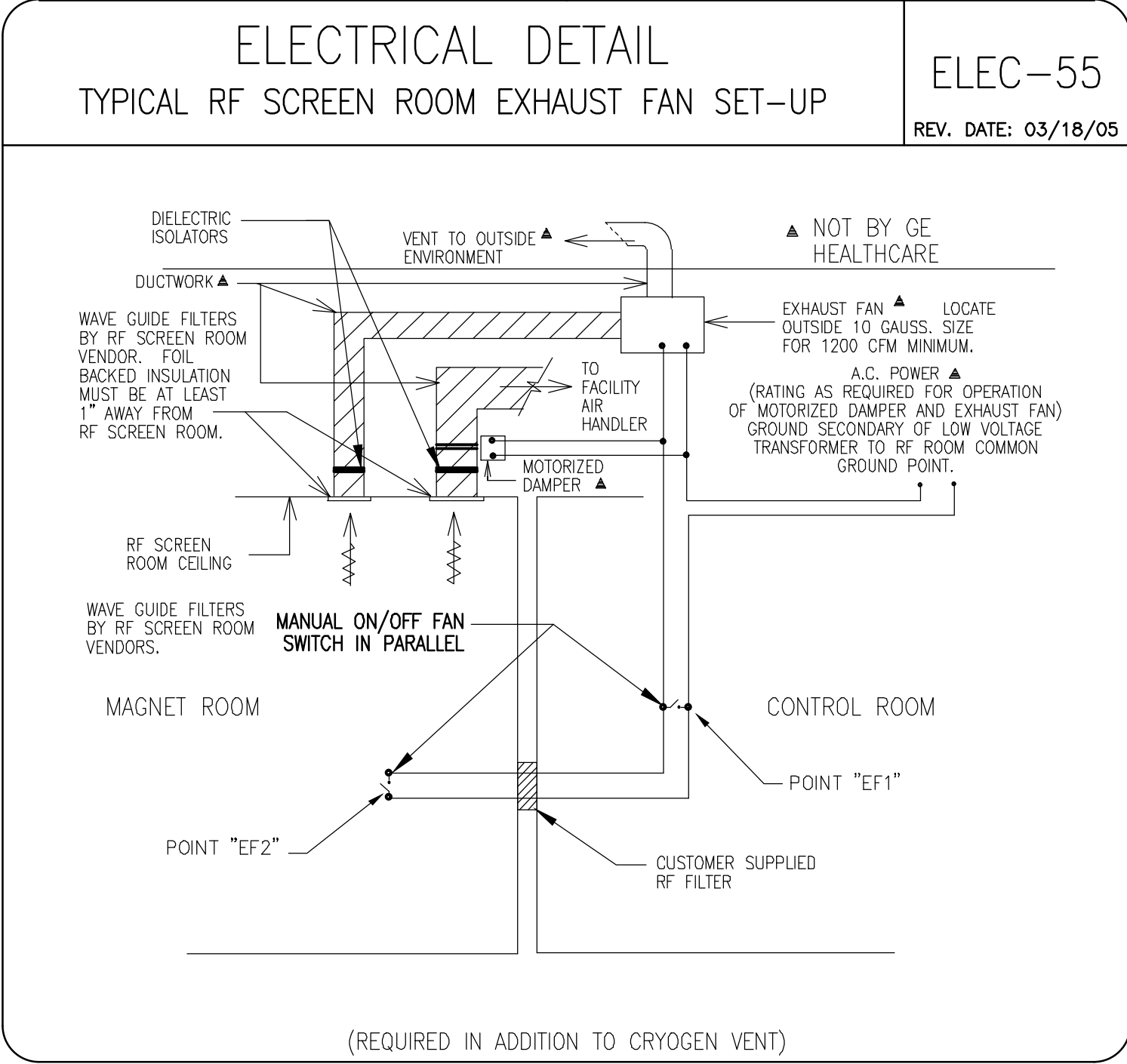
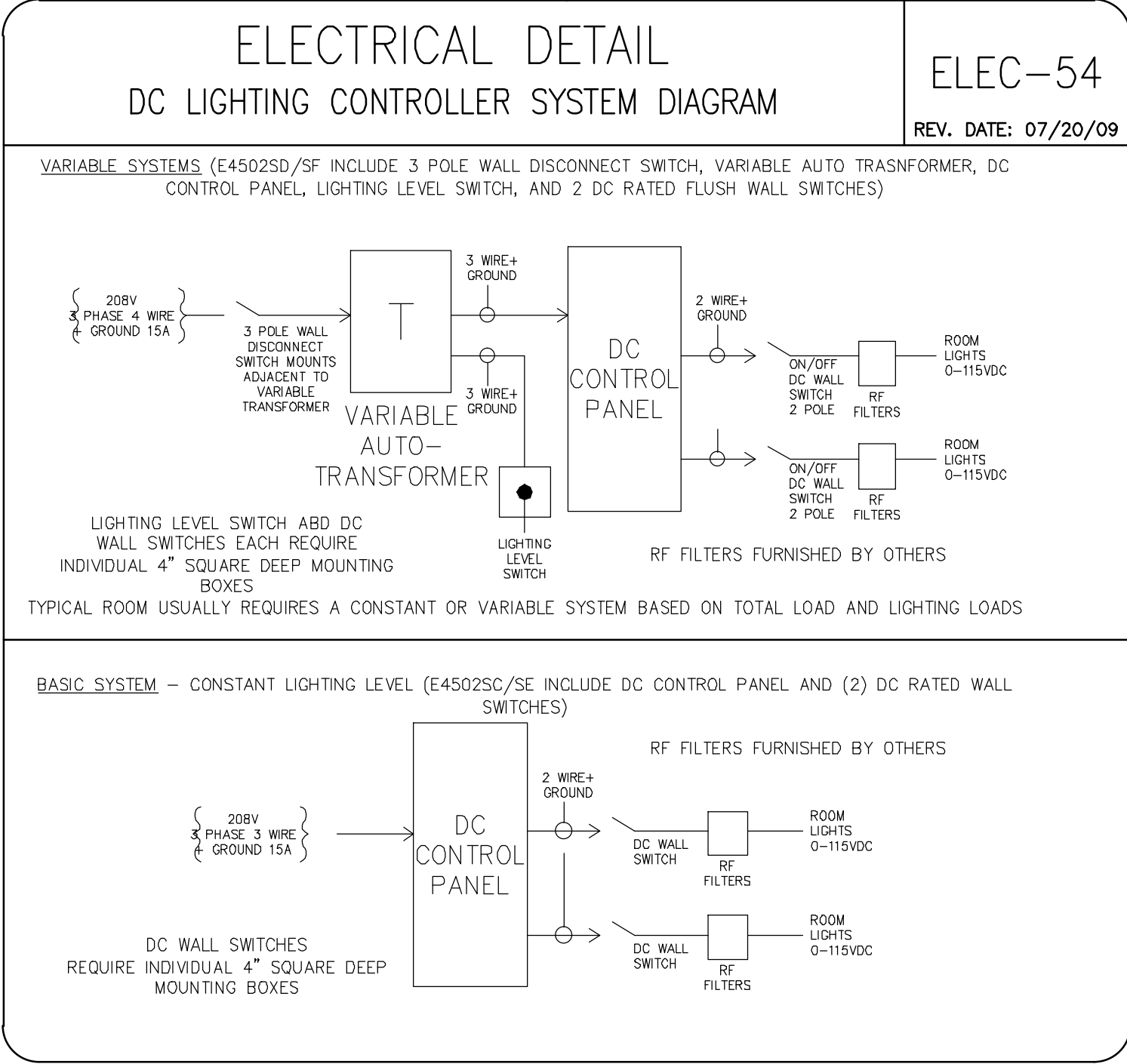
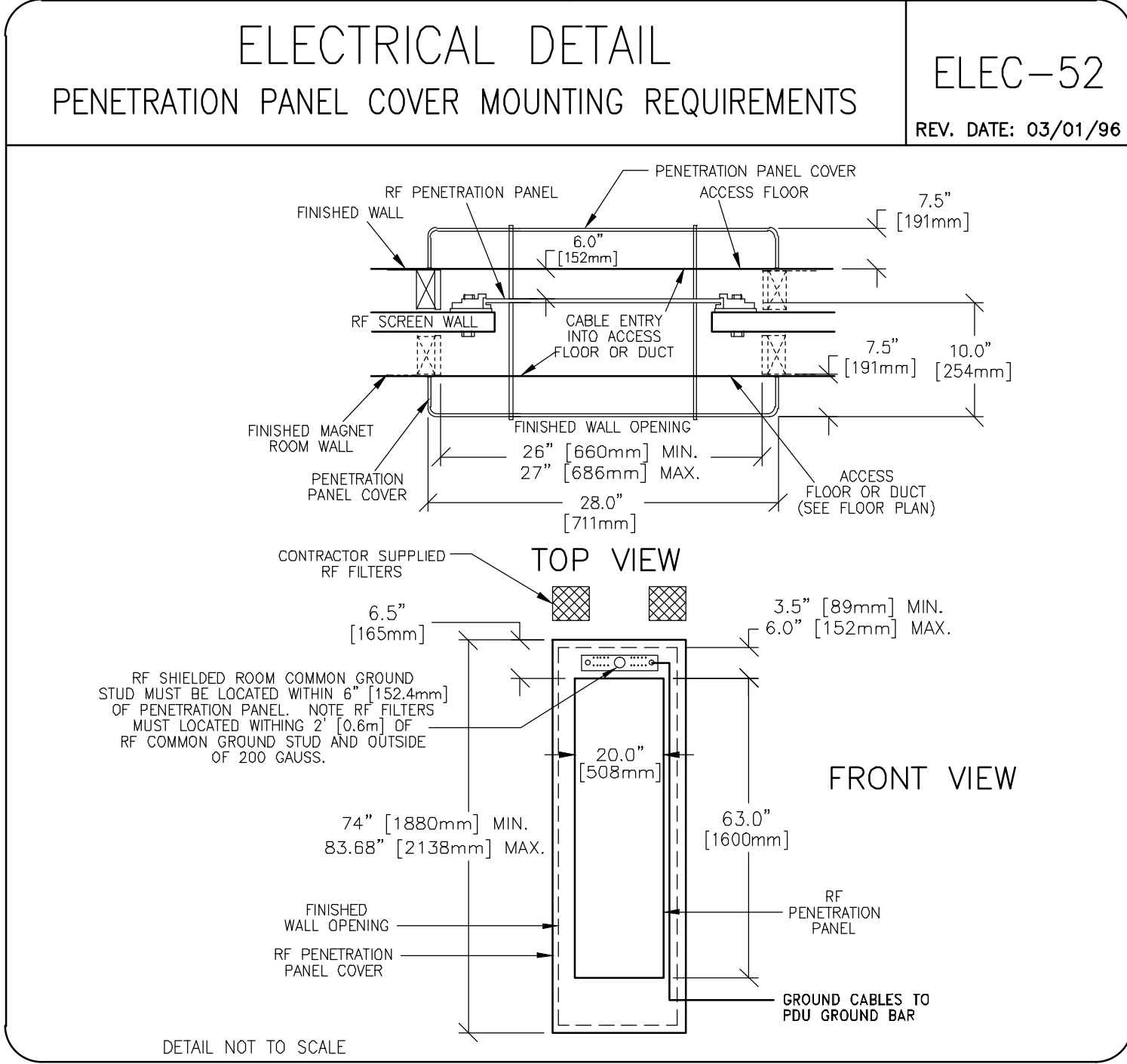
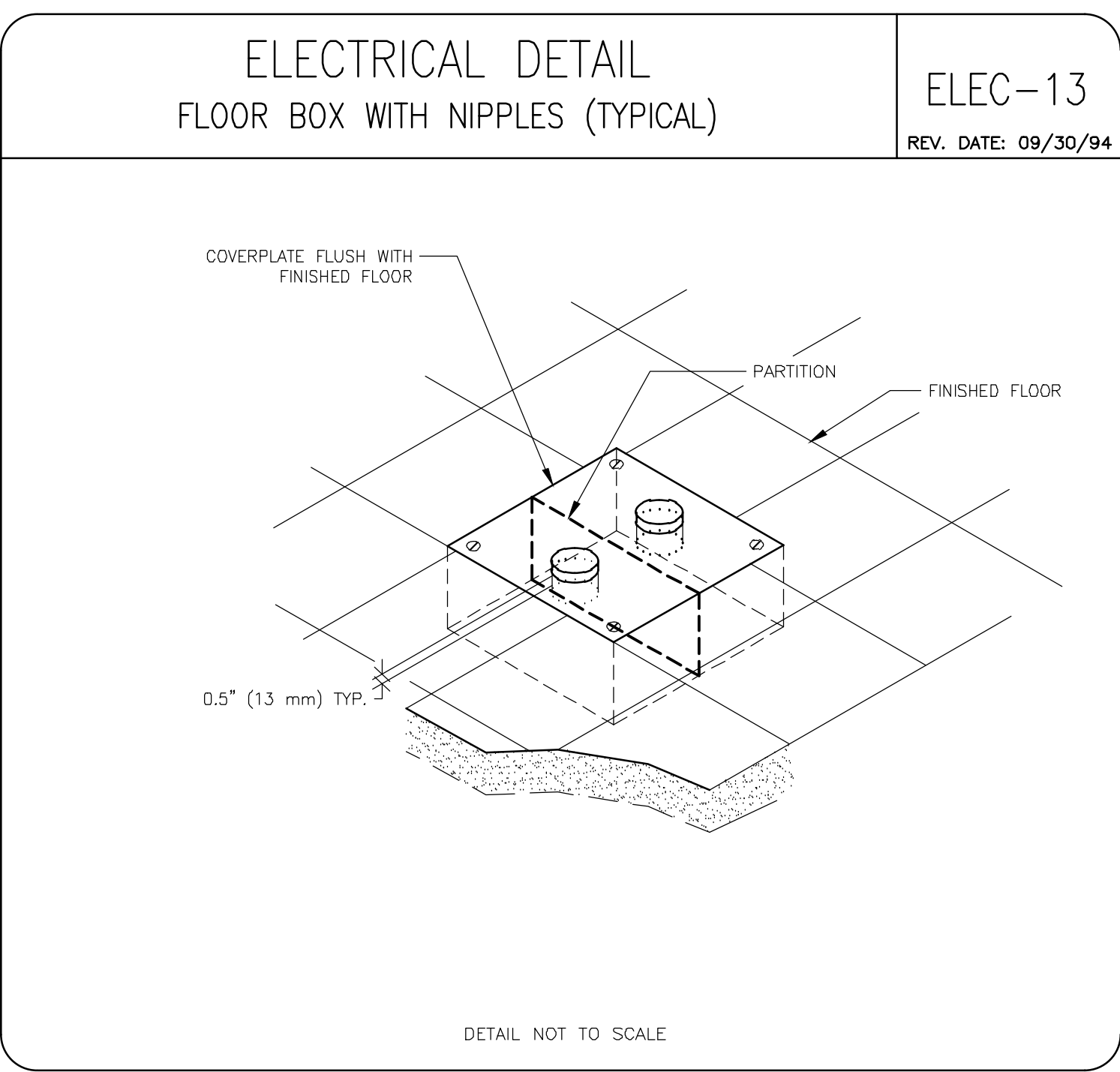
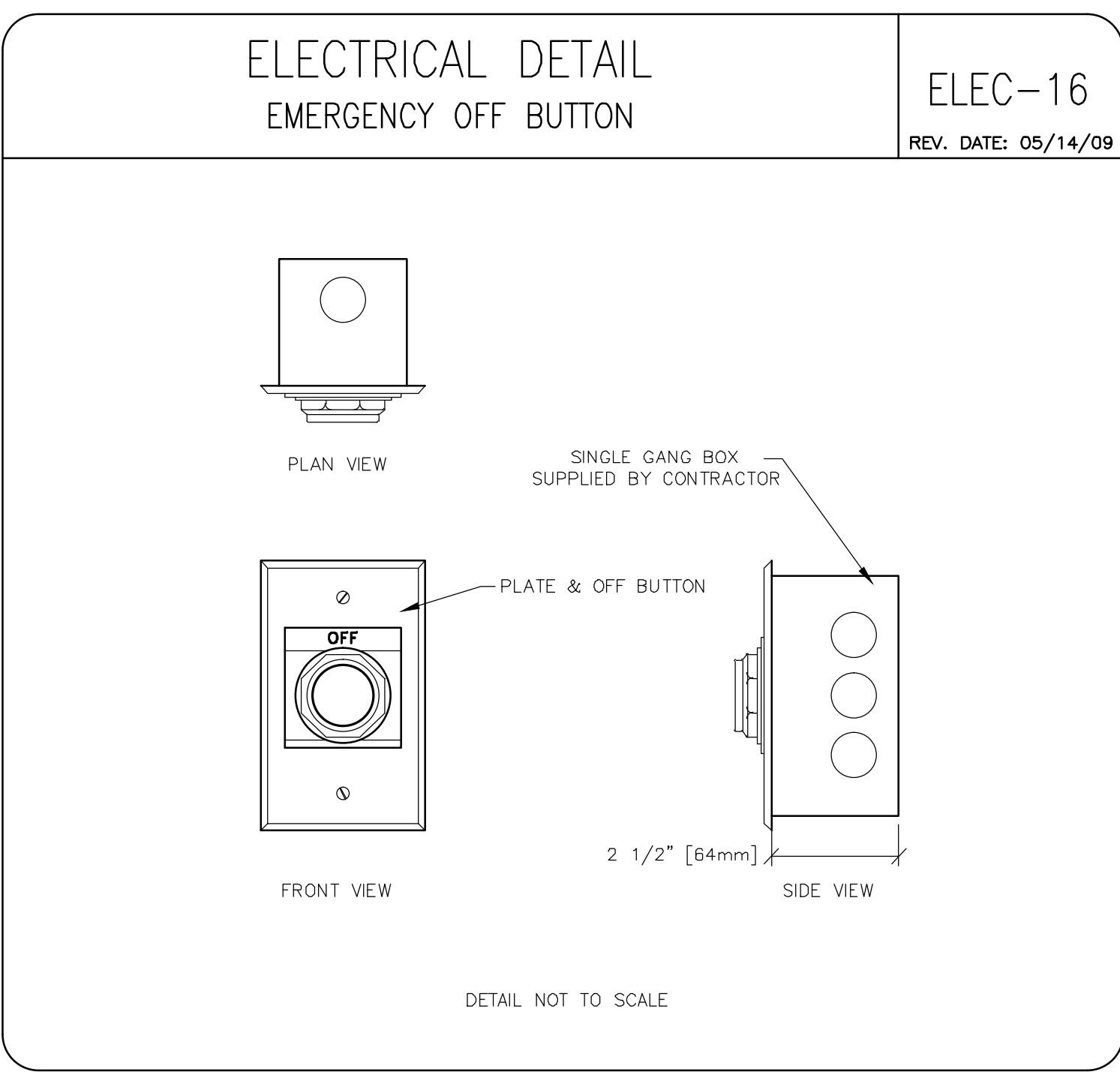
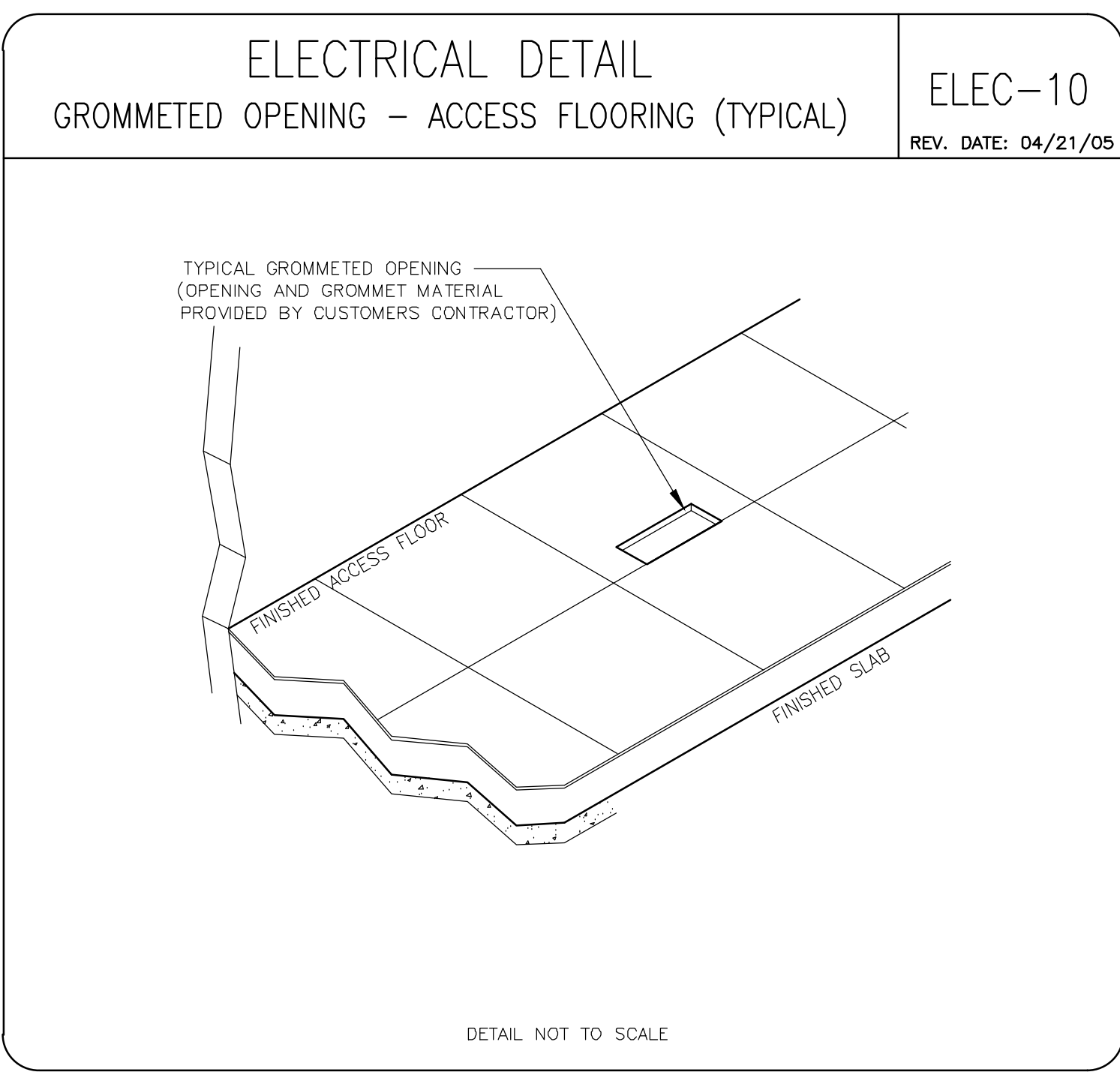
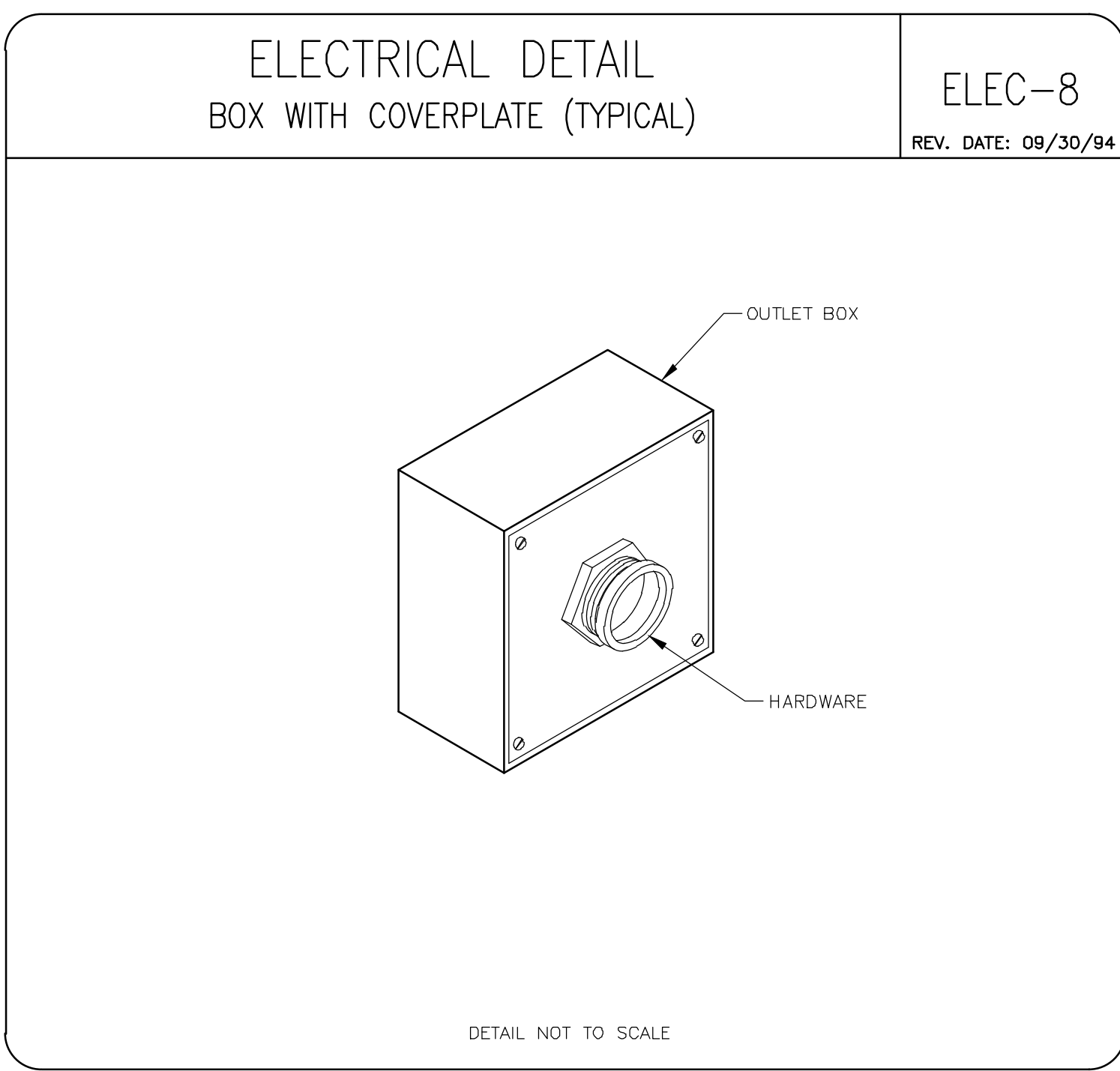
PROJECT REVISION
8-214F 05DATE: 12.Jan.12
DRAWN BY: PMM
CHECKED BY: PMM

REVISION HISTORY:

SHEET

E2

WPS-122



GE Healthcare

IS Services Design Center

Milwaukee, Wisconsin

SHEET TITLE: ELECTRICAL DETAILS

MODALITY TYPE: 3.0T SIGNA HDx

THIS PLAN IS SUBMITTED TO SUGGEST LOCATION OF GE HEALTHCARE EQUIPMENT AND ASSOCIATED APPLIANCES, ELECTRICAL WIRING DETAILS AND ROOM ARRANGEMENTS. THE INFORMATION HEREON IS FOR INFORMATIONAL PURPOSES ONLY AND IS NOT TO BE USED FOR ACTUAL CONSTRUCTION PURPOSES. HOWEVER, THE COMPANY CANNOT ACCEPT RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

8-214F

TYPICAL LAYOUT

PROJECT TITLE:

8-214F

REVISION

05

DATE: 12.Jan.12

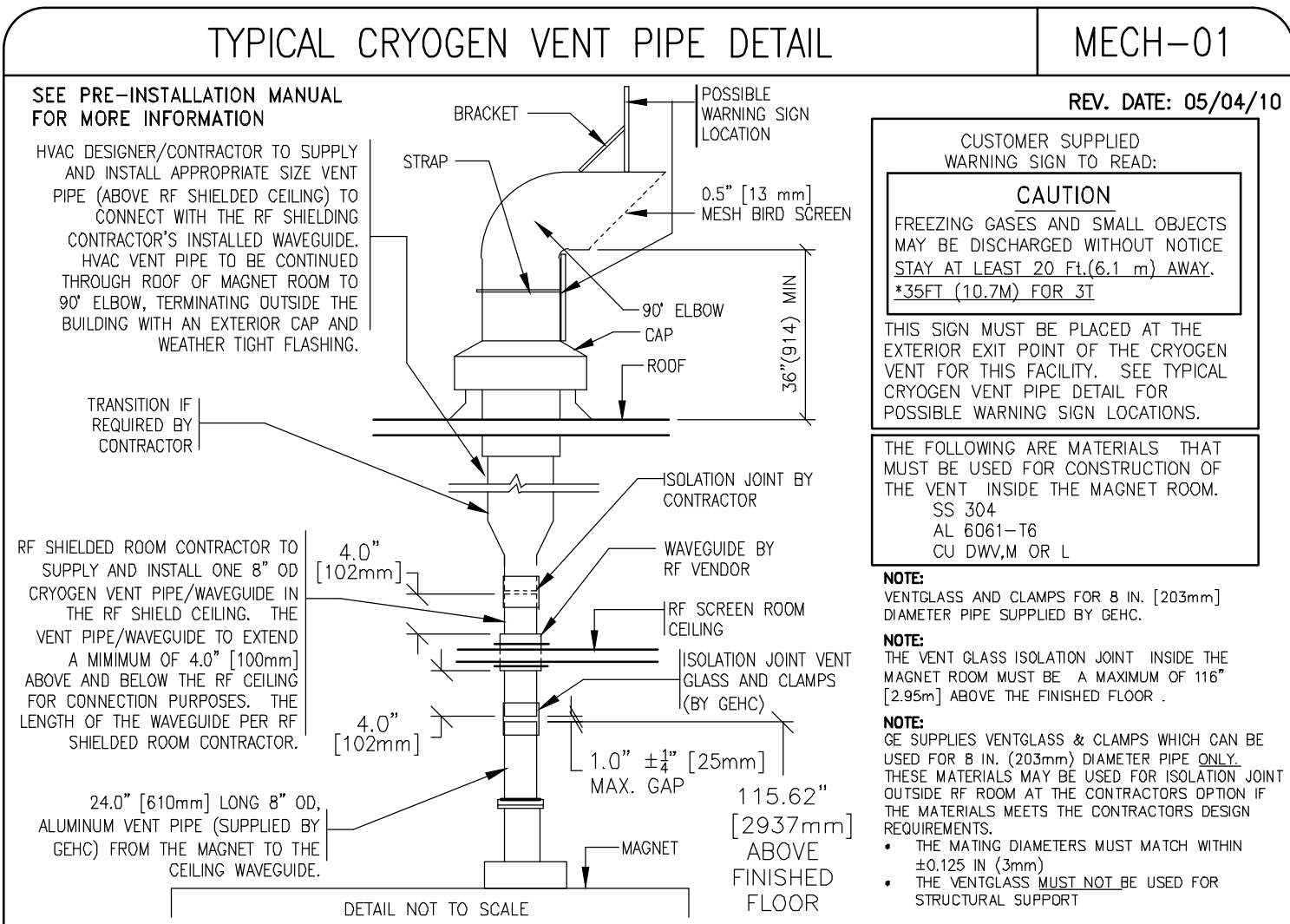
DRAWN BY: PMM

CHECKED BY: PMM

REVISION HISTORY:

SHEET

979-102



CRYOGENIC VENT SYSTEM PRESSURE DROP MATRIX

MECH-34

REV. DATE: 01/29/04

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

CRYOGENIC VENT SYSTEM PRESSURE DROP MATRIX FOR A MAGNET WITH 8" [203mm] VENT.

PRESSURE DROP PER ELBOW USE ANYWHERE WITHIN 20' (6.1m) SEGMENT

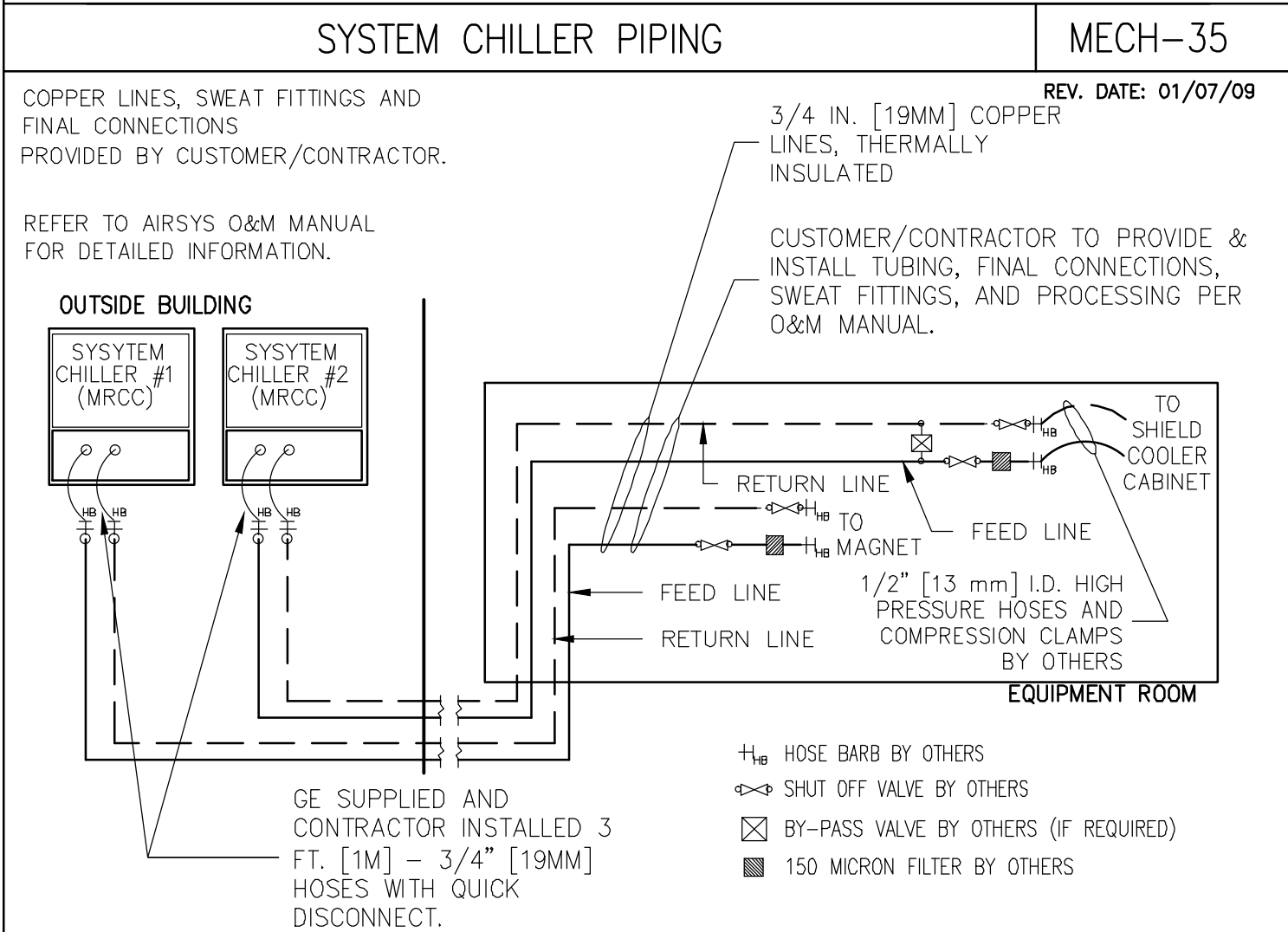
INSIDE DIAMETER OF VENT PIPE	DISTANCE OF VENT SYSTEM COMPONENT FROM MAGNET	PRESSURE DROP STRAIGHT VENT PIPE WITH SMOOTH INSIDE SURFACE	STANDARD SWEEP 45° ELBOW	LONG SWEEP 90° ELBOW	STANDARD SWEEP 90° ELBOW	STANDARD SWEEP 90° ELBOW	STANDARD SWEEP 90° ELBOW	90° ELBOW MITER BEND						
in. [mm]	feet	meters	psi/ft	KPa/m	psi	KPa	psi	KPa	psi	KPa	psi	KPa	psi	KPa
8 [203]	0-20	0-6.1	0.14	3.22	1.12	7.70	0.74	5.13	0.39	2.69	1.43	10.0	9.82	68.6
	10-20	3.05-6.10	0.24	5.49	1.83	12.63	1.22	8.42	0.43	23.67	2.29	15.78	6.87	47.34
	20-30	6.10-9.15	0.36	8.23	2.49	17.20	1.66	11.45	0.67	32.21	3.11	21.48	9.34	64.43
	30-40	9.15-12.20	0.47	10.65	3.11	21.42	2.07	14.26	0.82	40.11	3.88	26.74	11.54	80.23
	40-50	12.20-15.25	0.57	12.80	3.67	25.32	2.45	16.86	0.98	47.42	4.58	31.61	13.75	94.84
10 [254]	0-20	0-6.1	0.06	1.280	0.62	4.29	0.41	2.86	1.17	8.04	0.78	5.36	2.33	16.07
	20-40	6.1-12.2	0.12	2.725	1.05	7.25	0.70	4.83	1.97	13.58	1.31	9.05	3.94	27.16
	40-60	12.2-18.3	0.17	3.304	1.43	9.86	0.95	6.36	2.67	18.44	1.78	12.29	5.35	36.88
	60-80	18.3-24.4	0.21	4.859	1.76	12.14	1.17	8.07	3.29	22.70	2.19	15.13	6.58	45.40
	80-100	24.4-30.5	0.25	5.626	2.05	14.14	1.36	9.35	3.85	26.43	2.56	17.62	7.67	52.86
12 [305]	0-20	0-6.1	0.020	0.441	0.26	1.78	0.17	1.19	0.48	3.34	0.32	2.22	0.97	6.67
	20-40	6.1-12.2	0.041	0.937	0.43	3.00	0.29	1.99	0.81	5.61	0.54	3.74	1.63	11.22
	40-60	12.2-18.3	0.060	1.353	0.59	4.08	0.39	2.72	1.11	7.64	0.74	5.09	2.22	15.27
	60-80	18.3-24.4	0.075	1.702	0.73	5.06	0.49	3.36	1.37	9.45	0.91	6.30	2.74	18.89
	80-100	24.4-30.5	0.088	1.991	0.86	5.92	0.57	3.83	1.60	11.06	1.07	7.37	3.21	22.12
14 [356]	0-20	0-6.1	0.008	0.180	0.123	0.85	0.082	0.57	0.231	1.59	0.154	1.06	0.462	3.18
	20-40	6.1-12.2	0.017	0.380	0.206	1.42	0.137	0.95	0.386	2.66	0.257	1.77	0.771	5.32
	40-60	12.2-18.3	0.024	0.550	0.281	1.94	0.187	1.29	0.525	3.62	0.360	2.42	1.051	7.25
	60-80	18.3-24.4	0.031	0.699	0.349	2.41	0.232	1.60	0.652	4.50	0.435	3.00	1.304	8.99
	80-100	24.4-30.5	0.036	0.824	0.411	2.83	0.272	1.88	0.746	5.28	0.511	3.52	1.533	10.57
14 [356]	0-20	0-6.1	0.004	0.083	0.065	0.45	0.043	0.30	0.122	0.84	0.081	0.56	0.244	1.68
	20-40	6.1-12.2	0.008	0.174	0.108	0.75	0.072	0.50	0.202	1.39	0.135	0.93	0.404	2.79
	40-60	12.2-18.3	0.011	0.275	0.150	1.02	0.098	0.68	0.275	1.90	0.184	1.27	0.551	3.80
	60-80	18.3-24.4	0.014	0.323	0.184	1.27	0.122	0.84	0.342	2.36	0.288	1.57	0.685	4.72
	80-100	24.4-30.5	0.017	0.383	0.217	1.49	0.144	0.99	0.404	2.78	0.269	1.86	0.807	5.57

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. EM ENERGY (J/GM) IS DUMPED TO LIQ DURING QUENCH AND RISES THE TEMPERATURE TO 10 KELVIN.
 C. GAS TEMPERATURE STARTS AT 10 KELVIN AND INCREASES WITH LENGTH DETERMINED BY THERMAL ENERGY BALANCE.
 D. 99% HE IS ASSUMED TO BE EXHAUSTED WITHIN 30 SEC. NO HE LEFT AFTER QUENCH.
 E. ABSOLUTE ROUGHNESS IS ASSUMED TO BE 0.3 mm.
 F. R/D = 0.5 FOR STANDARD SWEEP ELBOWS, R/D = 1.5 FOR LONG SWEEP ELBOWS, WHERE D = INSIDE DIAMETER OF PIPE, R = RADIUS OF BEND.

NOTE 3: THE TOTAL PRESSURE DROP OF THE ENTIRE CRYOGENIC VENT SYSTEM MUST BE LESS THAN 20 PSI (138 KPa).

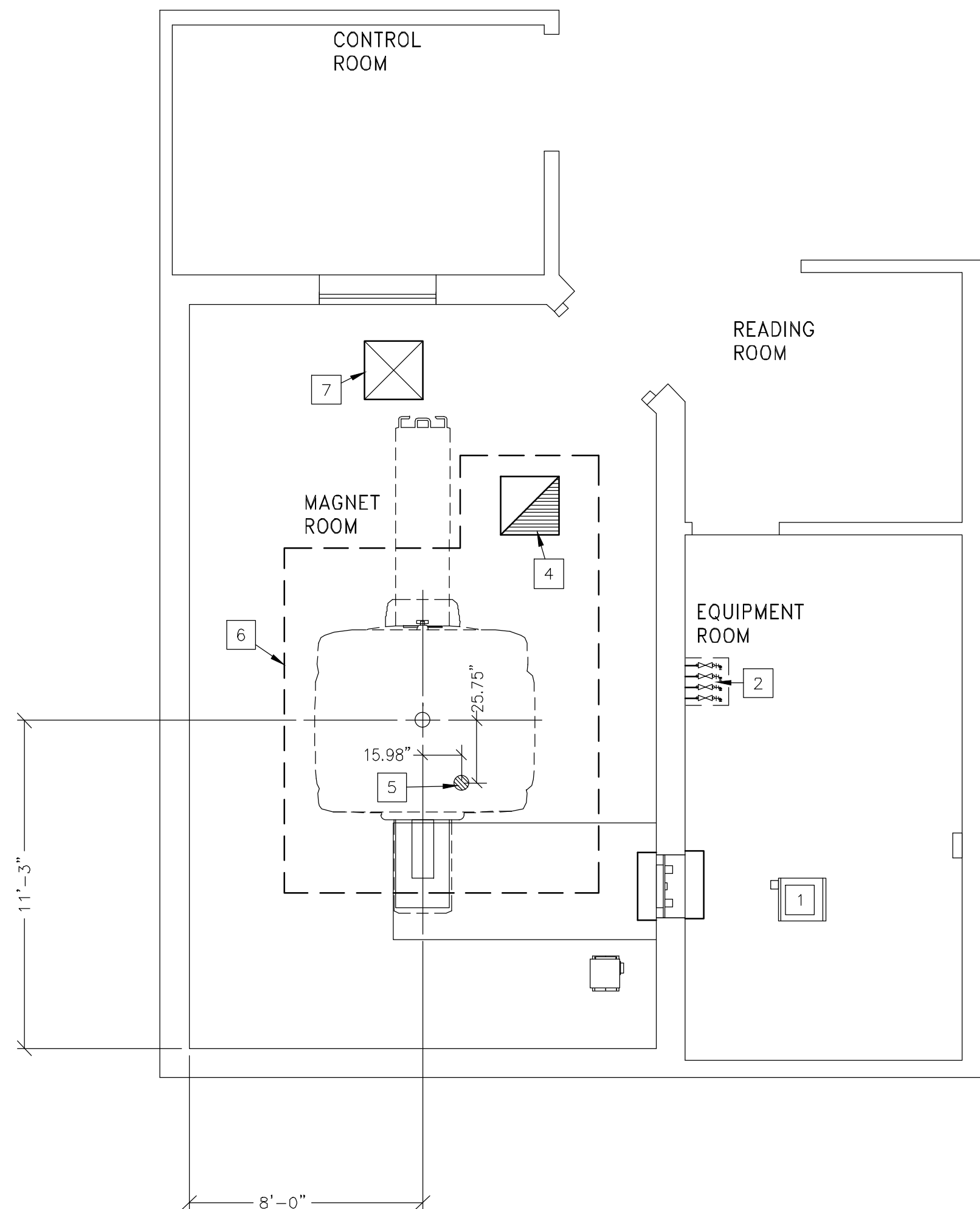
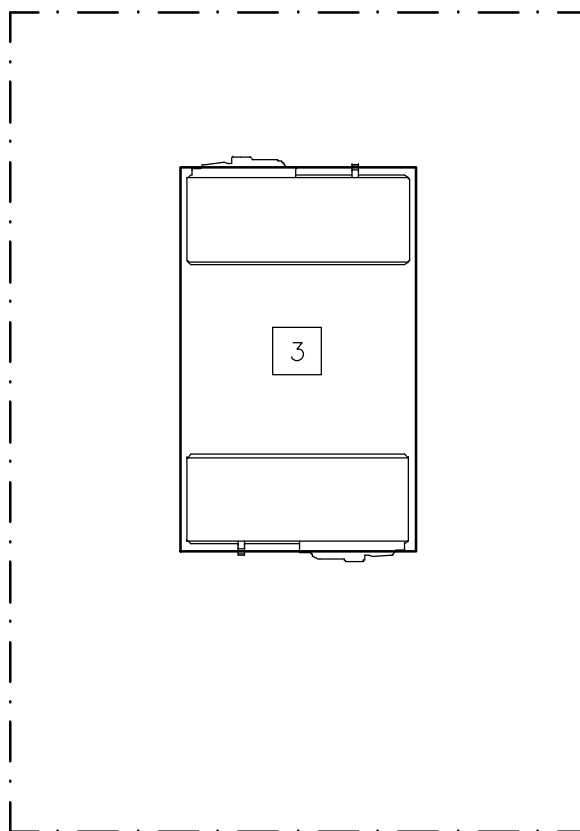
THE CALCULATION STARTS AT THE MAGNET VENT INTERFACE AND ENDS AT THE TERMINATION POINT OUTSIDE THE BUILDING.



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 | SEE PRE-INSTALLATION MANUAL FOR RECOMMENDED BACK-UP WATER SPECIFICATIONS. |
| 2 | FOUR (4) 3/4 IN. [19MM] COPPER LINES (INSULATED). SIX (6) 3/4 IN. [19MM] HOSE BARBS. TWO (2) 1/2 IN. [13MM] HOSE BARBS. FOUR (4) 3/4 IN. [19MM] BALL VALVES. TWO (2) 3/4 IN. [19MM] TO 1/2 IN. [13MM] REDUCERS. TWO (2) 150 MICRON FILTER. FOUR (4) SHUT OFF VALVES. TWO (2) BY-PASS VALVES. REFER TO DETAIL MECH-35. |
| 3 | PLEASE REFER TO THE PRE-INSTALLATION MANUAL FOR COMPLETE SITE PREPARATION REQUIREMENTS. CUSTOMER/CONTRACTOR RESPONSIBLE FOR RIGGING AND INSTALLATION OF SYSTEM COOLING CABINET. THERE IS A MAXIMUM OF 100 FEET (30.5 M) VERTICAL DIFFERENCE ABOVE OR 10 FEET (3.05 M) BELOW BETWEEN THE OUTDOOR CHILLER CABINET (MRCC) AND BOTH THE MAGNET AND THE CRYO COMPRESSOR. A TOTAL MAXIMUM DISTANCE OF 600 FEET (183 M) EXISTS BETWEEN THE OUTDOOR CHILLER CABINET (MRCC) AND CRYO COMPRESSOR OR THE MAGNET. |
| 4 | PLEASE REFER TO THE PRE-INSTALLATION MANUAL FOR COMPLETE SITE PREPARATION REQUIREMENTS. EXHAUST FAN AND AIR INLET MUST BE SIZED FOR A MINIMUM OF 1800 CFM (34 M ³ /MINUTE) AND A MINIMUM OF 8 AIR EXCHANGES PER HOUR. SEE DETAIL ELEC-55 ON THE ELECTRICAL DETAIL SHEET(S). |
| 5 | MAGNET ROOM EXHAUST FAN INTAKE VENT MUST BE LOCATED AT THE HIGHEST CEILING PLANE NEAR THE MAGNET CRYOGEN VENT. SEE SHEET S-2 FOR CRYOGEN VENT LOCATION. THE TOTAL PRESSURE DROP OF THE ENTIRE CRYOGENIC VENT SYSTEM MUST BE LESS THAN 20 PSI (138 KPa). THE CALCULATION STARTS AT THE MAGNET VENT INTERFACE AND ENDS AT THE TERMINATION POINT OUTSIDE THE BUILDING. 8" (203 mm) CRYOGEN VENT - TOLERANCE FOR VENT LOCATION +/-0.25" (6 mm). SEE DETAILS MECH-34 AND MECH-01. THE CUSTOMER'S DESIGNER IS RESPONSIBLE FOR SELECTING VENT MATERIALS AND HARDWARE CAPABLE OF SAFELY HANDLING THE PRESSURES AND GAS TEMPERATURE GENERATED WITHIN THE VENT AT EACH MRI 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 (IE, OFFSET CEILING EXITS, WALL EXITS, AND GEODESIC DUMPS) THE CUSTOMER'S CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF THE CRYOGENIC VENT SYSTEM AND VENT SUPPORTS WITHIN THE MAGNET ROOM. |
| 6 | MINIMUM CEILING HEIGHT REQUIREMENT AREA. REFER TO MAGNET EQUIPMENT DETAILS FOR MORE INFORMATION. |
| 7 | MINIMUM 2 FT. X 2 FT. (0.61m X 0.61m) PRESSURE EQUALIZING WAVEGUIDE VENT IN THE MAGNET ROOM CEILING. |

MECHANICAL/PLUMBING NOTES

- ALL PIPING, FITTINGS, SUPPORTS, HOSES, CLAMPS, VENTILATION SYSTEMS, ETC. ARE TO BE SUPPLIED AND INSTALLED BY THE CUSTOMER OR HIS CONTRACTORS.
- FOR COMPLETE DESIGN AND IS REQUIREMENTS, SPECIFICATIONS AND GUIDELINES REFER TO THE PRE-IS MANUAL REFERENCED ON SHEET C1 FOR:
MR SYSTEMS - SYSTEM COOLING, CRYOGEN VENTING, WAVEGUIDES AND EXHAUST VENTING.
CYCLOTRON SYSTEMS - CHEMISTRY LINES, GAS LINES, AND SYSTEM COOLING.

GE Healthcare

IS Services Design Center

Wisconsin

Milwaukee

SHEET TITLE: MECHANICAL LAYOUT

MODALITY TYPE: 3.0T SIGNA HDx

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 (IE, OFFSET CEILING EXITS, WALL EXITS, AND GEODESIC DUMPS) THE CUSTOMER'S CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF THE CRYOGENIC VENT SYSTEM AND VENT SUPPORTS WITHIN THE MAGNET ROOM.

PROJECT TITLE:

8-214F

TYPICAL LAYOUT

PROJECT: 8-214F

REVISION: 05

DATE: 12.Jan.12

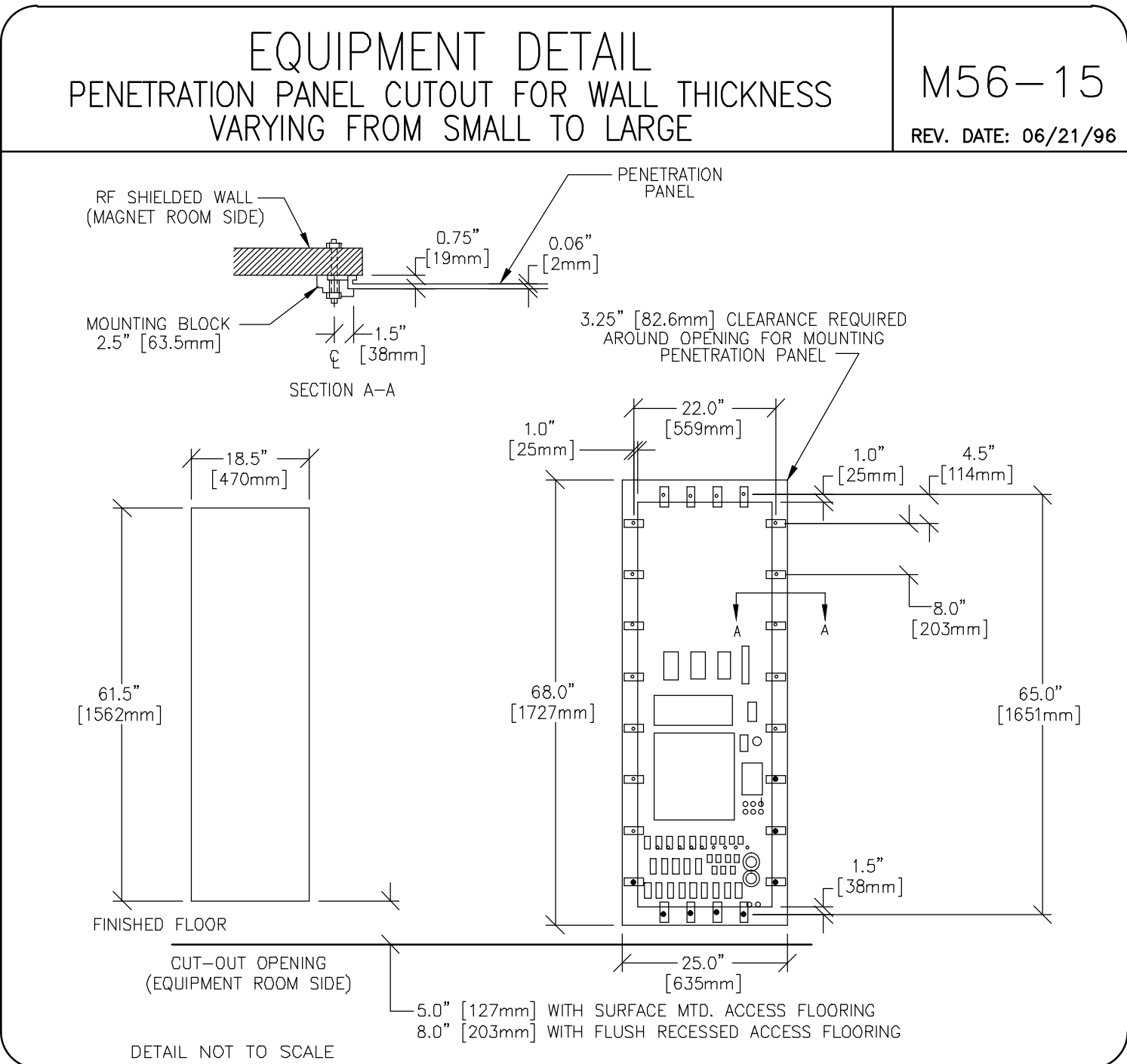
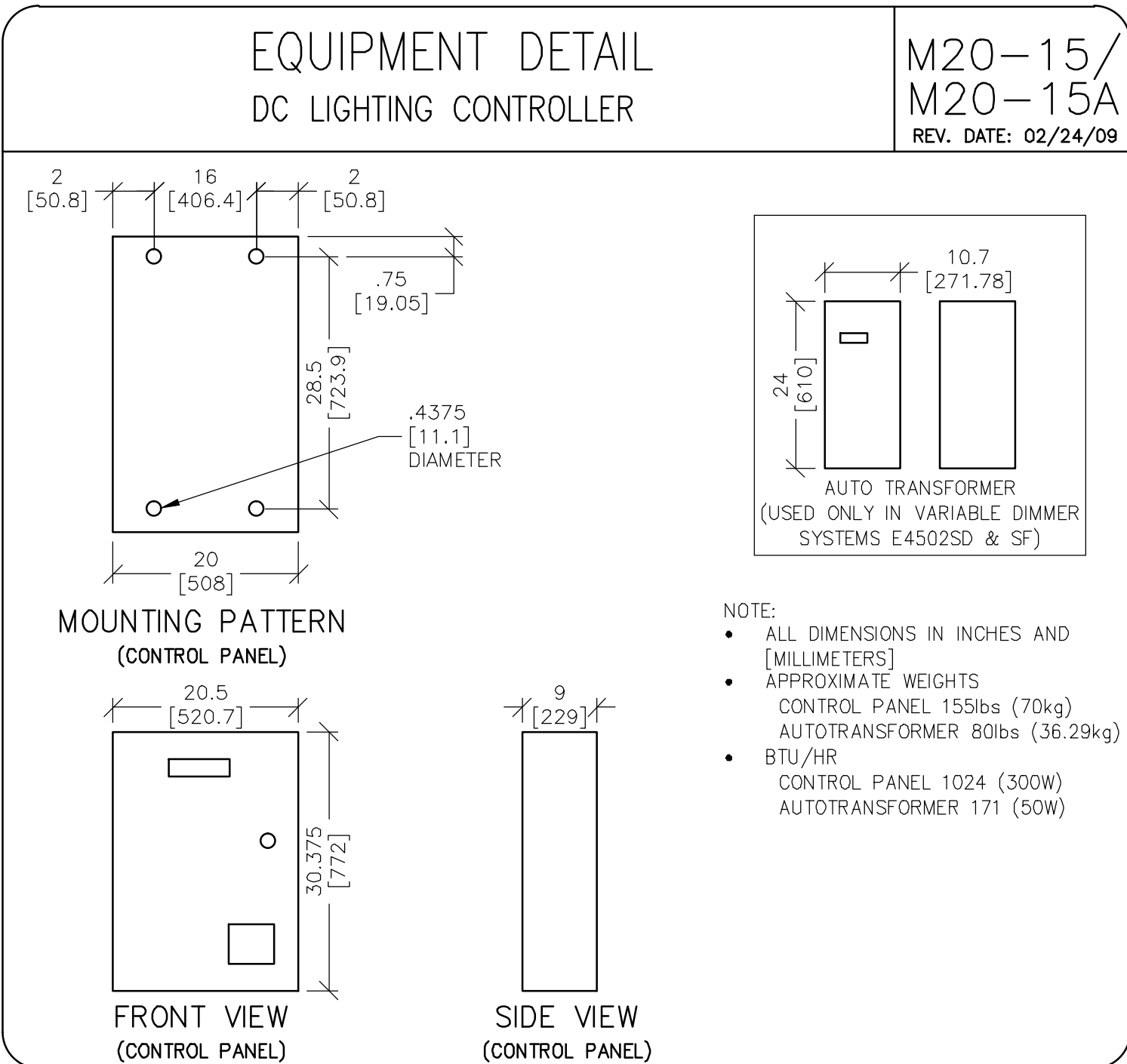
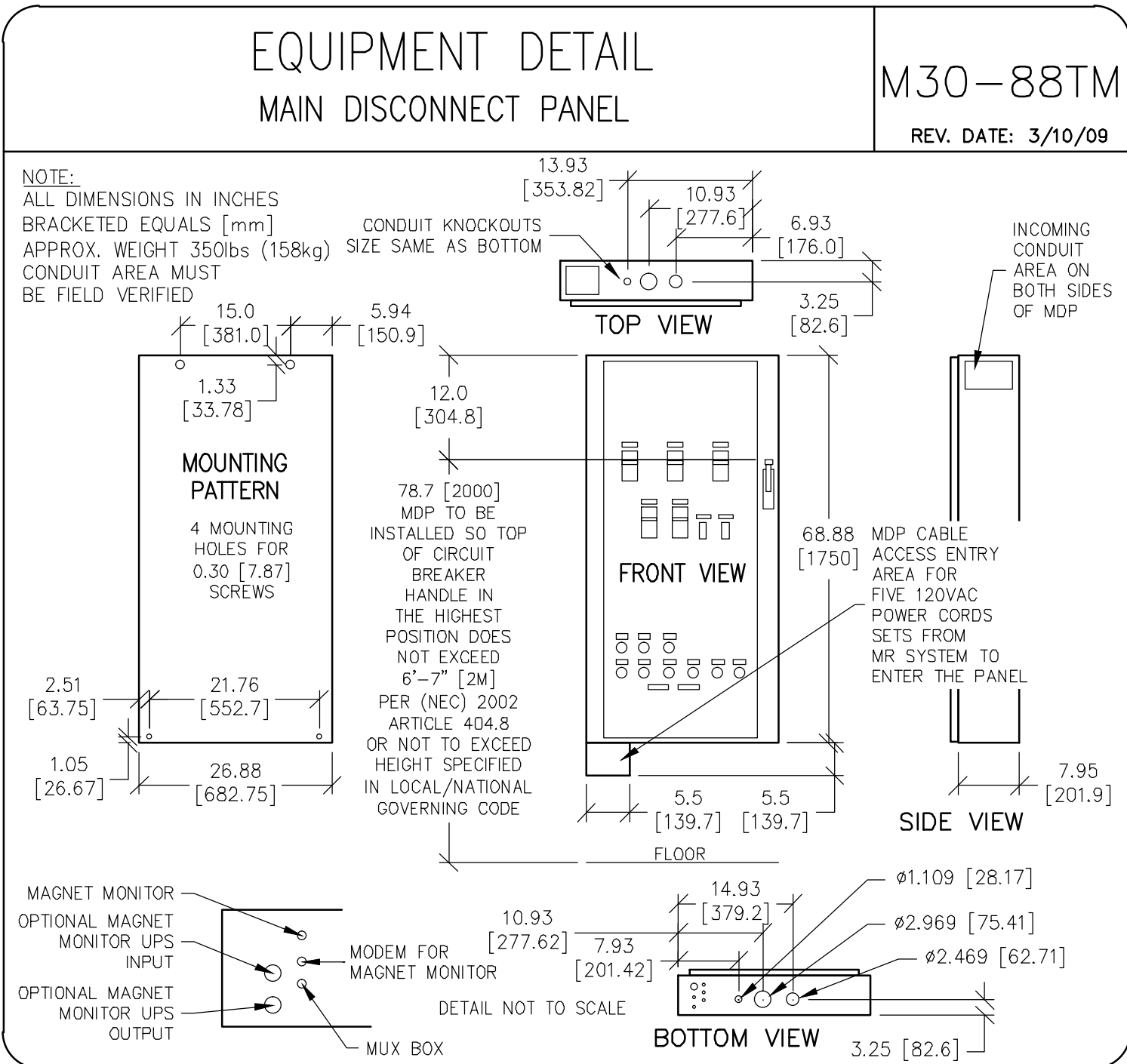
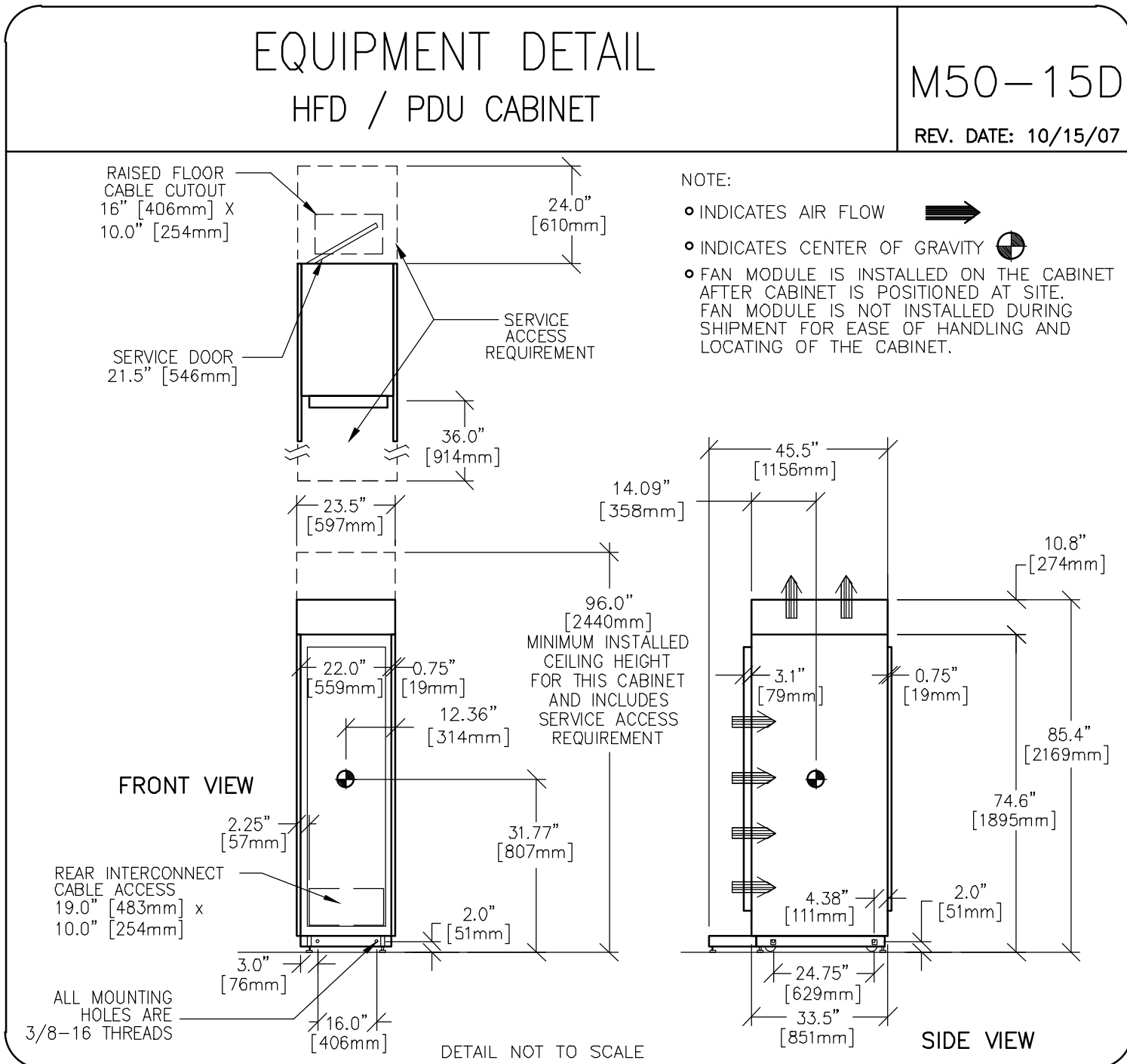
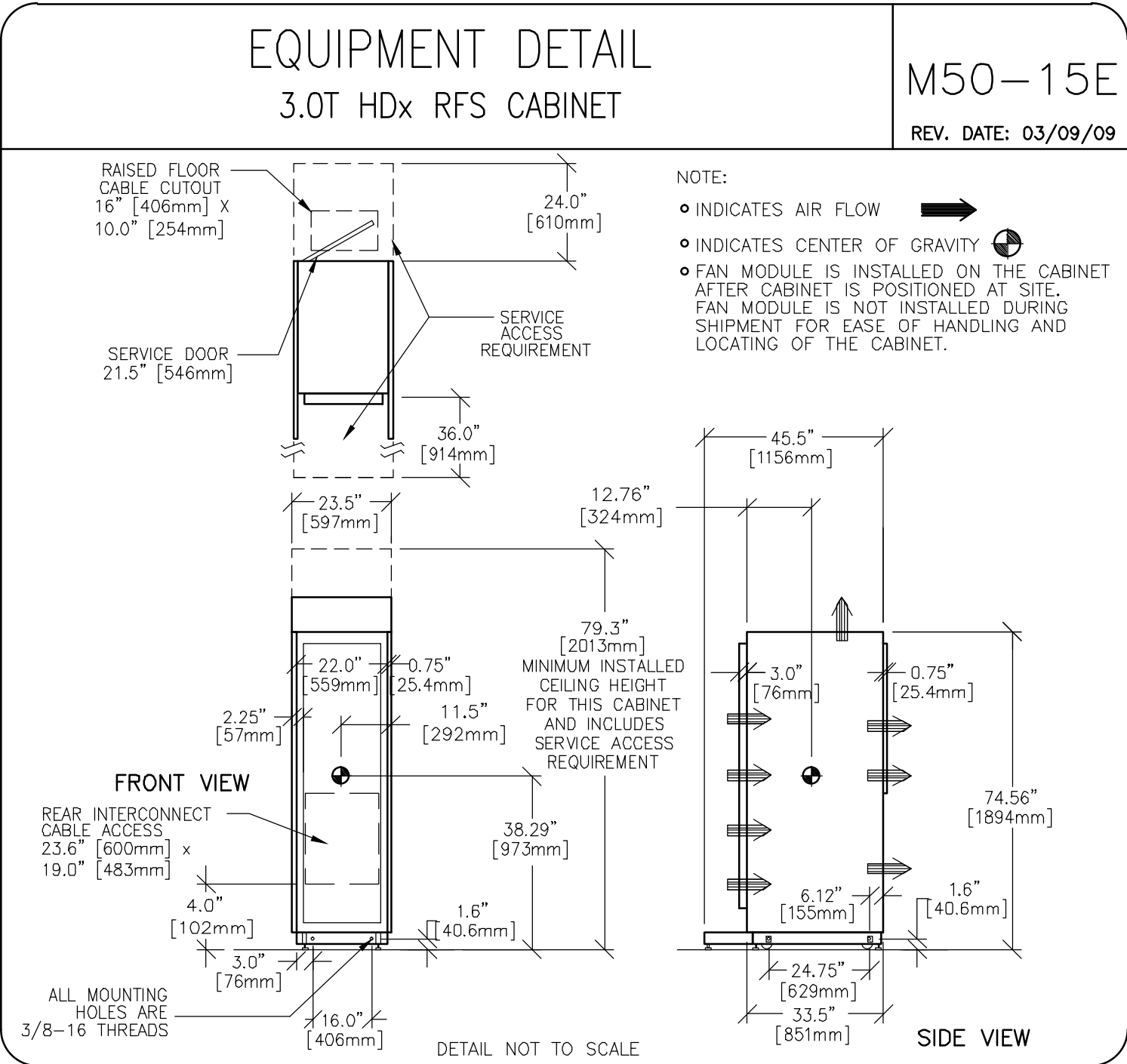
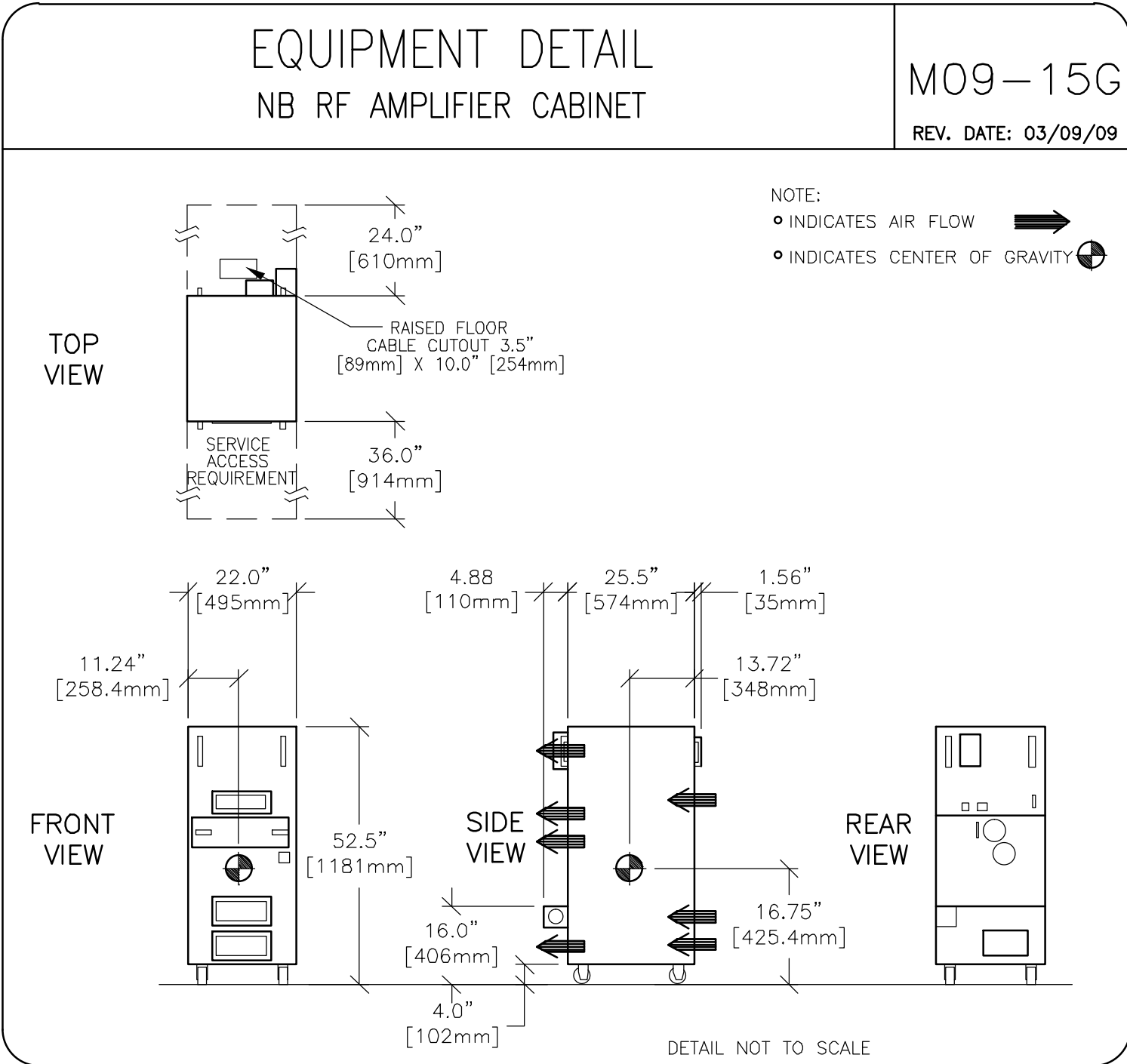
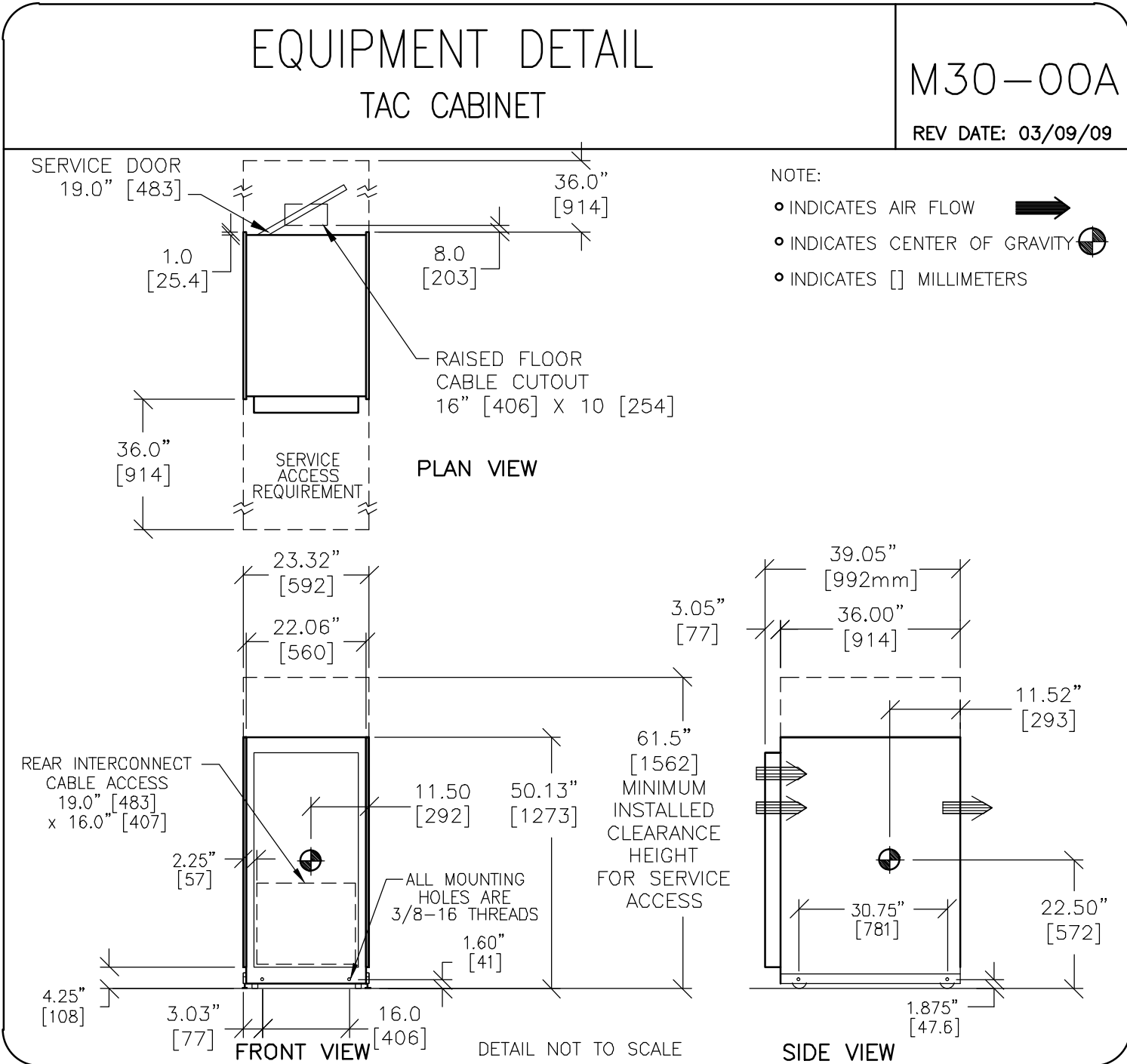
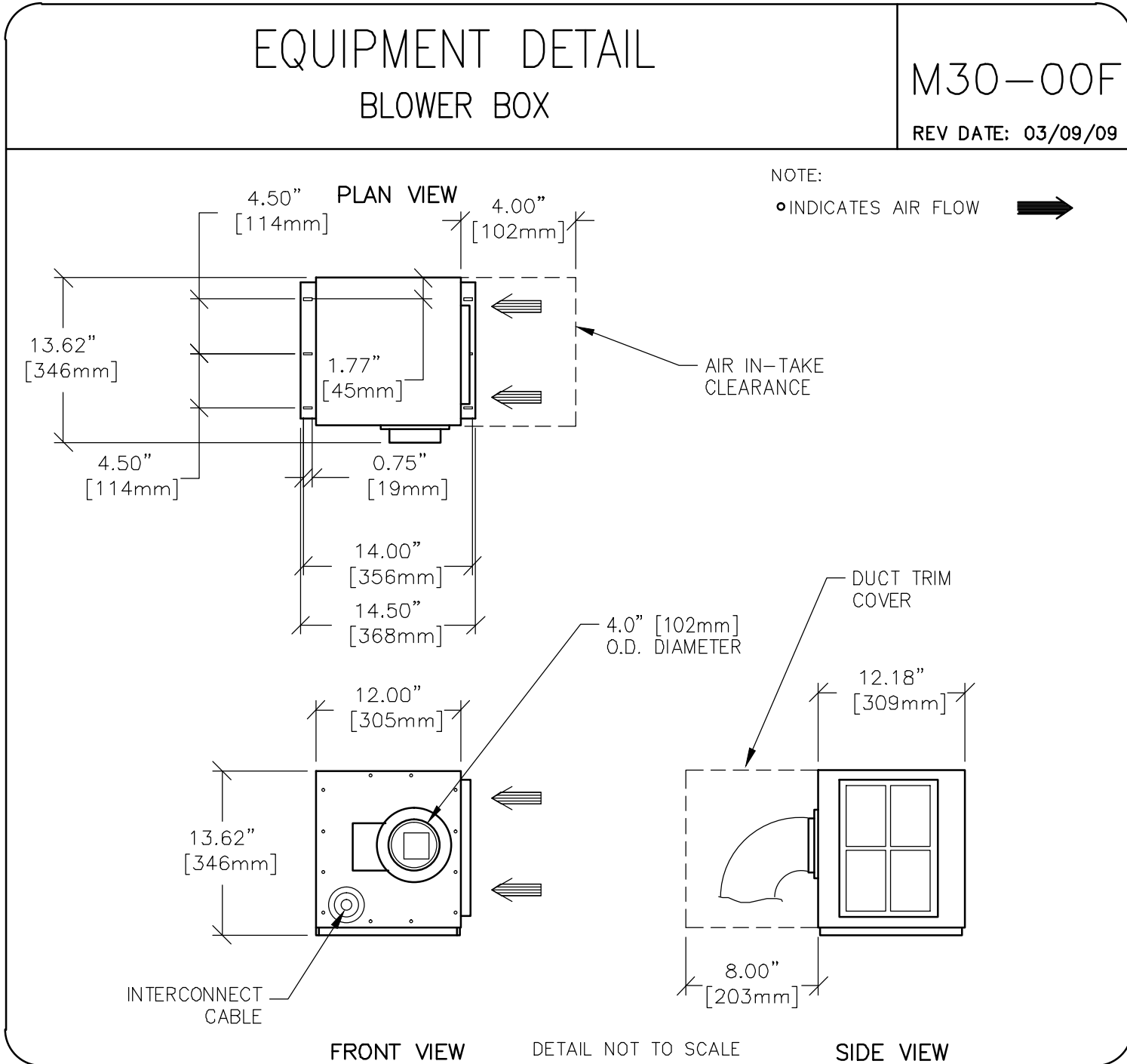
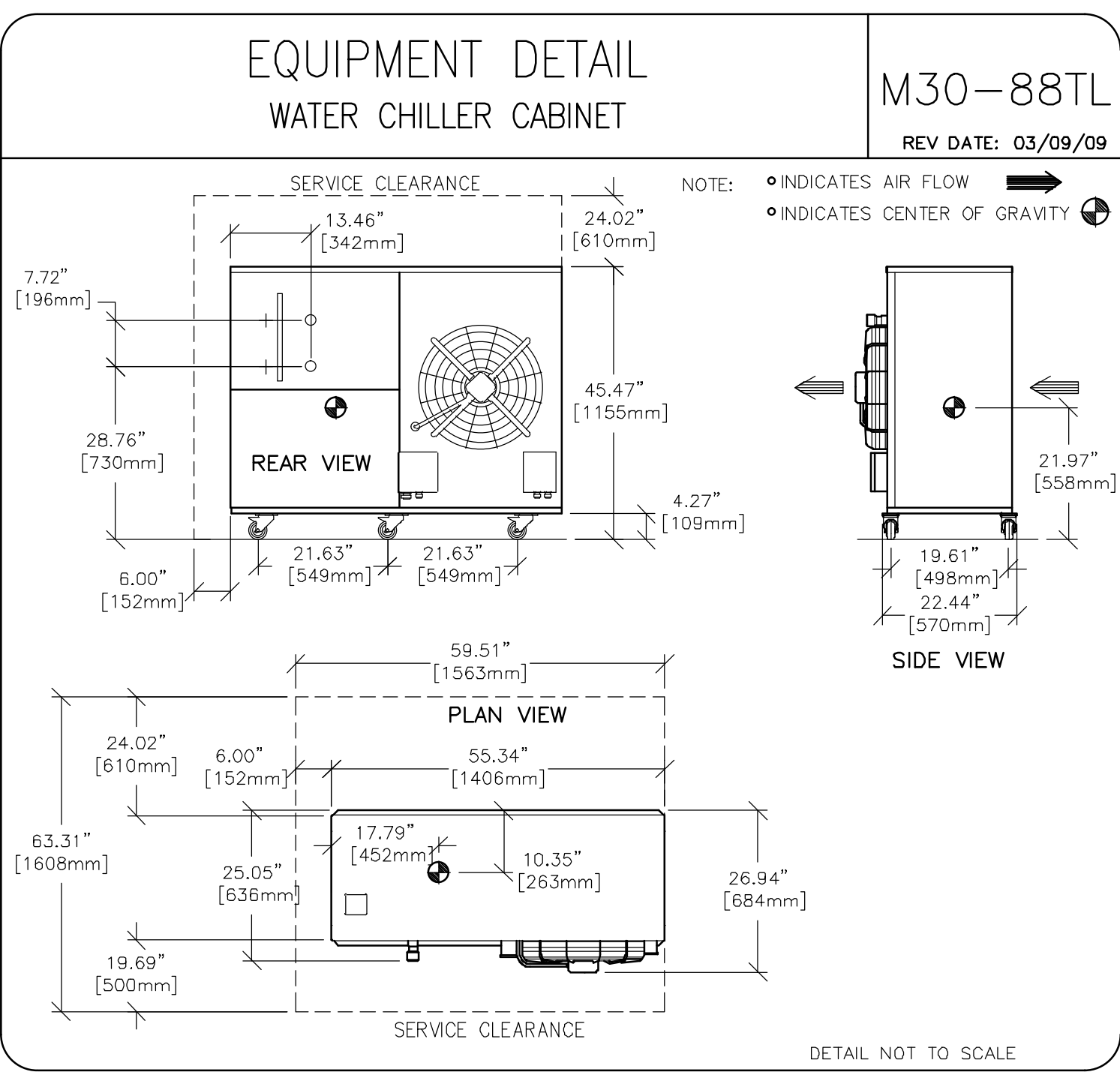
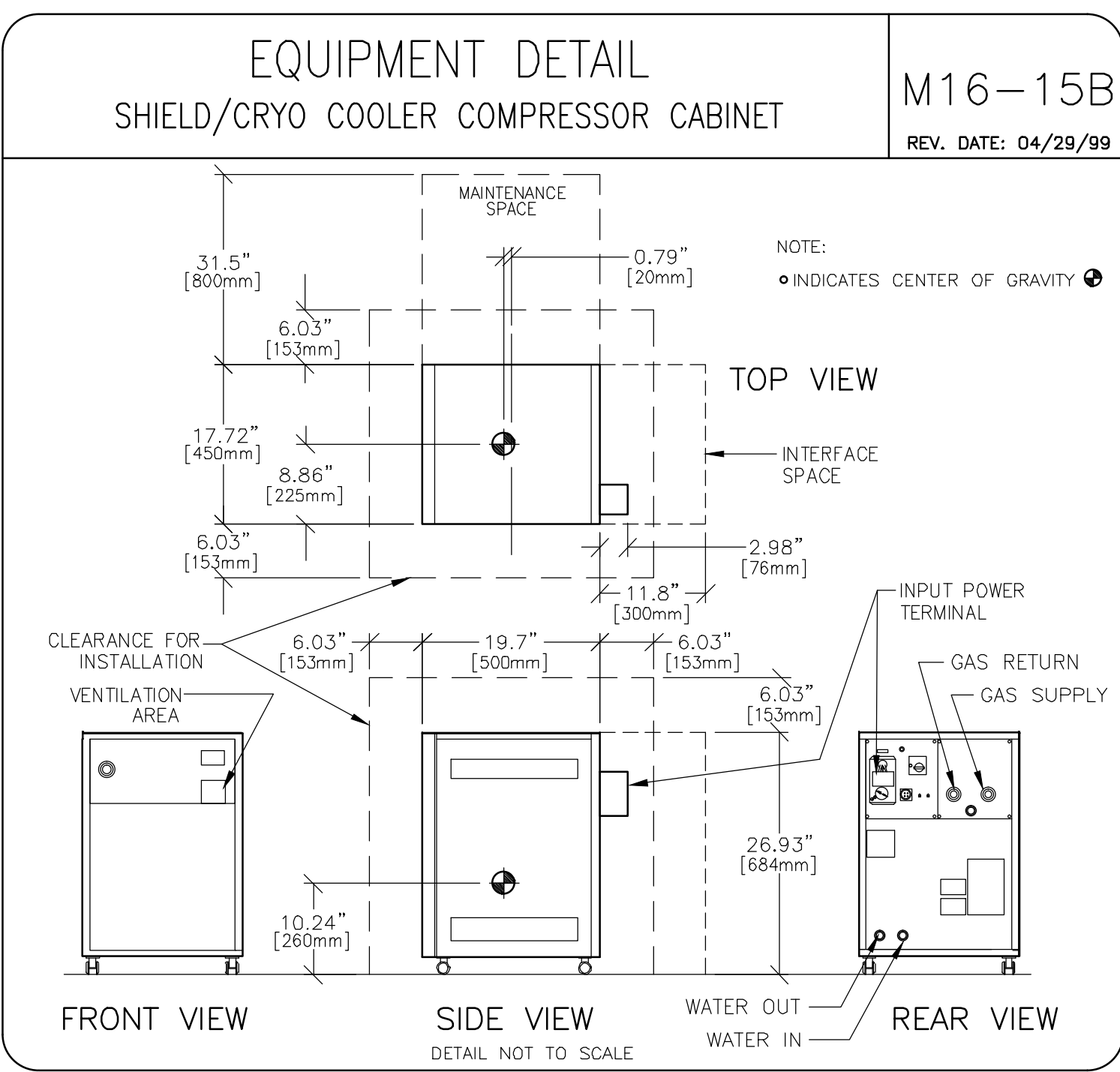
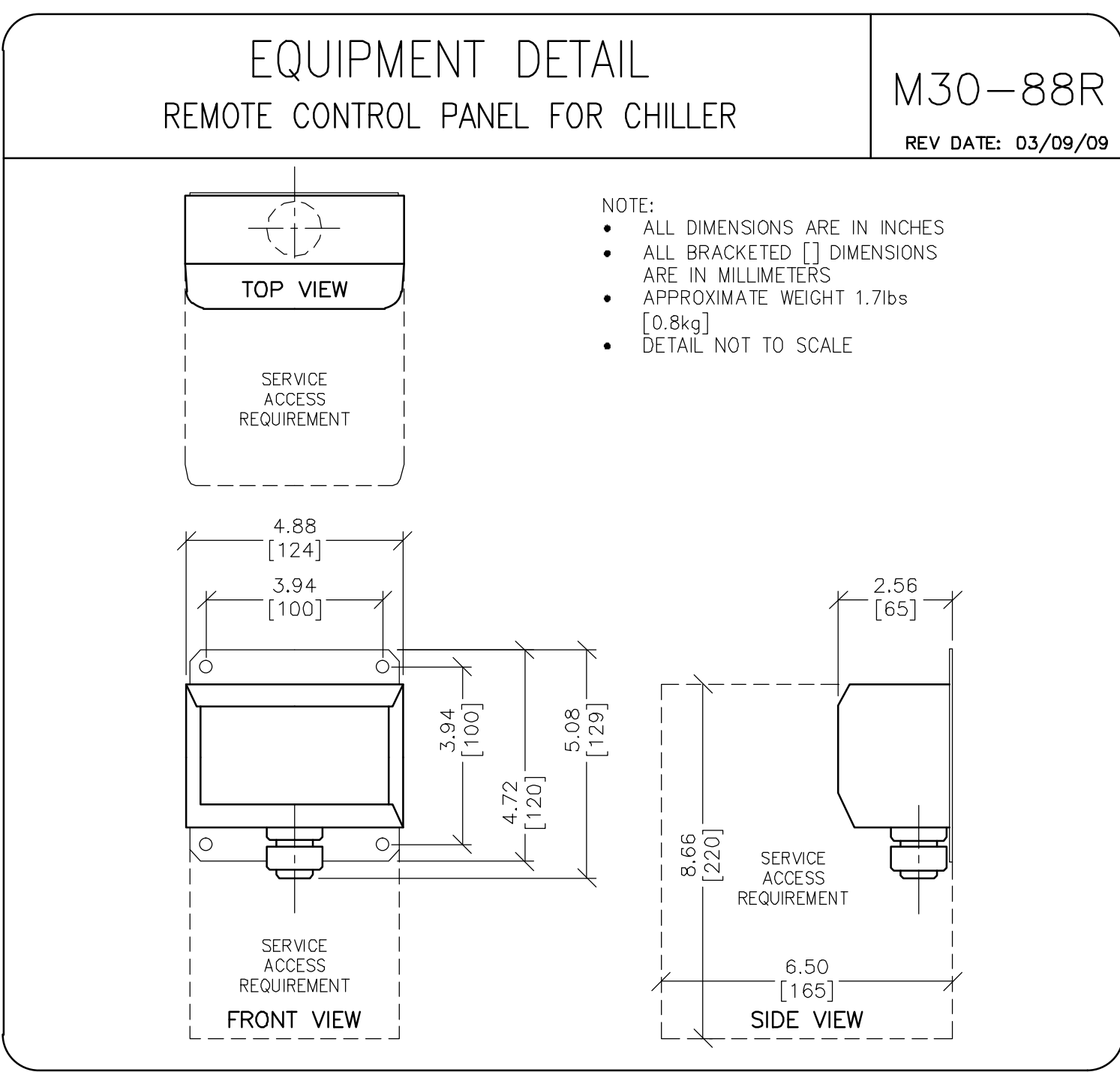
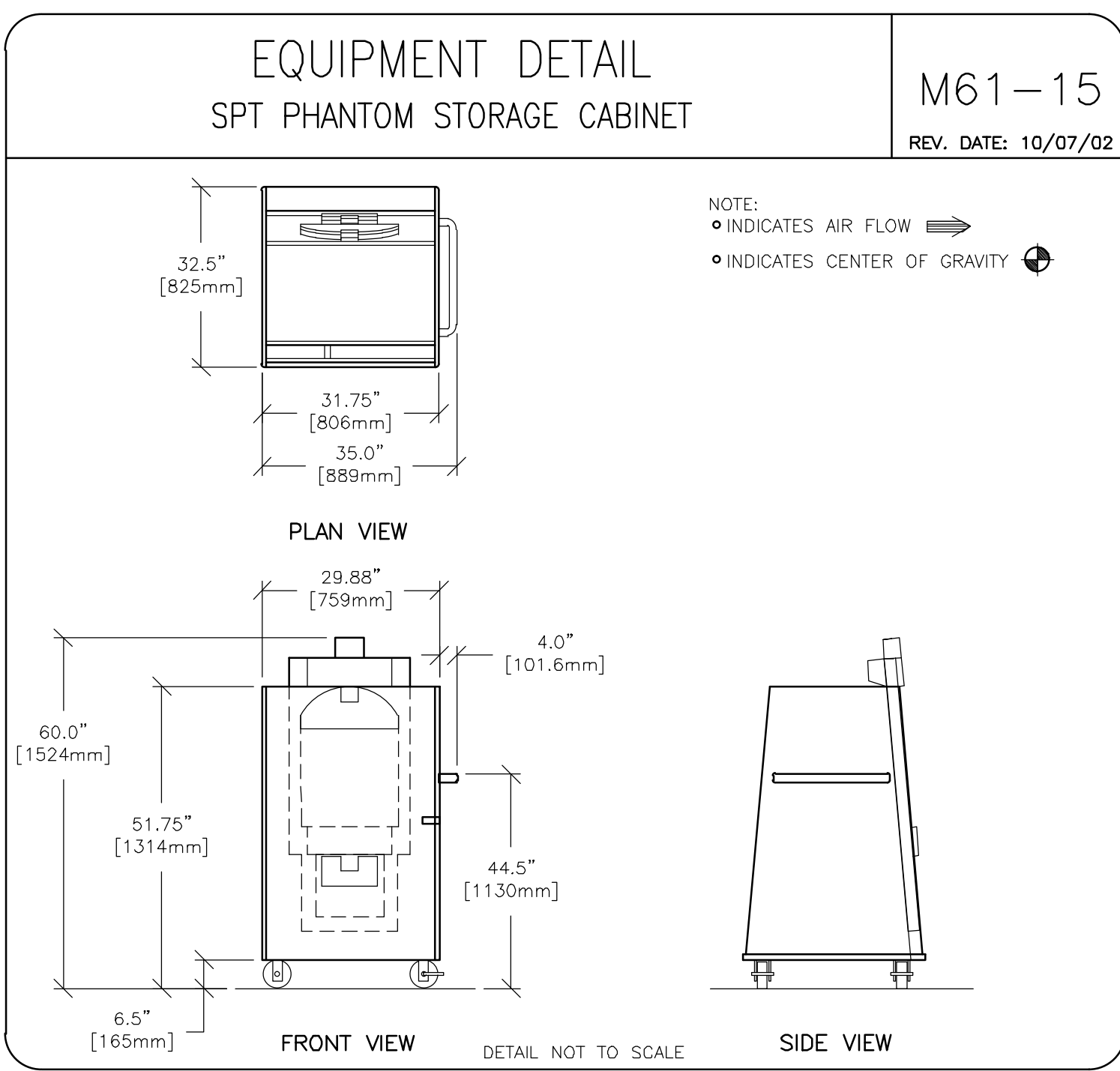
DRAWN BY: PMM

CHECKED BY: PMM

REVISION HISTORY:

SHEET

M1



This drawing is based on Sketch No.: 8-214

SHEET TITLE: EQUIPMENT DETAILS

MODALITY TYPE: 3.0T SIGNA HDx

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

PROJECT: 8-214F

REVISION: 05

DATE: 12.Jan.12

DRAWN BY: PMM

CHECKED BY: PMM

REVISION HISTORY:

SHEET

GE Healthcare

IS Services Design Center

Milwaukee, Wisconsin

REV. DATE: 06/21/96

2.5" [63.5mm] BRASS MOUNTING STRIP

1/4"-20x1.5 BRASS BOLT

COPPER TAPE

0.75" [19mm]

PENETRATION PANEL

(MAGNET ROOM SIDE)

RF SHIELDED WALL

1.5" [38mm]

0.06" [2mm]

SECTION A-A

1.0" [25.4mm] CLEARANCE REQUIRED AROUND OPENING FOR MOUNTING PENETRATION PANEL.

20.75" [527mm]

63.75" [1619mm]

22.38" [568mm]

17.38" [441mm]

2.5" [64mm]

PANEL EDGE

WALL EDGE

63.38" [1610mm]

65.38" [1661mm]

2.0" [51mm]

12.875" [327mm]

4.125" [105mm]

CUT-OUT OPENING (EQUIPMENT ROOM SIDE)

3.0" [76mm] WITH SURFACE MTD. ACCESS FLOORING

6.0" [152mm] WITH FLUSH RECESSED ACCESS FLOORING

PENETRATION PANEL MOUNTED

FINISHED FLOOR ON PENETRATION CABINET SIDE OF RF SHIELDING

DETAIL NOT TO SCALE

[illegible]

GENERAL CRYOGEN REQUIREMENTS

- 1) USE OF A STANDARD VALVED HELIUM TRANSFILL LINE AND A 250 LITER DEWAR, NOT MORE THAN 70 in. [1778mm] HIGH, REQUIRES A CEILING HEIGHT OF 135.5 in. [3442 mm] NOTE: THAT THIS NEED ONLY BE A 24in. [610mm] SQUARE CEILING RECESS LOCATED EITHER IN THE MAGNET ROOM OR IN AN ACCESSIBLE AREA NEAR THE MAGNET ROOM.
- 2) A 500 LITER DEWAR, NOT MORE THAN 73 in. [1854mm] HIGH, REQUIRES A CEILING HEIGHT OF 138 in. [3506mm].
- 3) IF THE HELIUM TRANSFILL REQUIREMENTS CANNOT BE SATISFIED IN OR NEAR THE MAGNET ROOM, CONSIDER A LOCATION OUTSIDE THE BUILDING OR ON A LOADING DOCK. THE STANDARD VALVED TRANSFILL LINE, AFTER INSERTION INTO EITHER A 500 OR 250 LITER DEWAR, WILL FIT THROUGH A 36" [2007 mm] BY 43 in. [1092 mm] WIDE HIGH DOORWAYS AND HALLWAYS. PROVIDE FREE ACCESS FROM THE DEWAR LOCATION TO THE MAGNET.
- 4) IF ELEVATORS ARE TO BE USED FOR CRYOGEN DELIVERY ROUTE, VERIFY THAT ELEVATOR DIMENSIONS AND WEIGHT CAPACITY IS SUFFICIENT TO CARRY THE CRYOGEN DEWARs. ALSO, ELEVATOR MUST BE DEDICATED WITH RESTRICTED ACCESS DURING CRYOGEN TRANSPORT (WILL NOT ALLOW STOPS BETWEEN INITIAL START AND FINAL FLOOR DESTINATION).
- 5) AN OPTIONAL CRYOGEN REFLILL SERVICE IS OFFERED BY OEMs. (CHECK WITH CRYOGEN SUPPLIER FOR EXACT SIZES AND WEIGHT).
- 6) MAXIMUM ACCEPTABLE INCLINE IS 5° AND RECOMMENDED MINIMUM DOOR SIZE IS 48" [1219mm] ALONG THE ENTIRE DEWARs DELIVERY ROUTE.

ON-SITE CRYOGEN STORAGE ROOM RECOMMENDATIONS (IF NECESSARY)

- 1) CRYOGEN STORAGE TO BE LOCKABLE, WELL LIT, WELL VENTILATED WITH TEMPERATURES NOT TO EXCEED 100 °F (37.8 °C).
- 2) WALLS IN CRYOGEN STORAGE ROOM SHOULD BE 3/4" PAINTED PLYWOOD OR SUITABLE FINISH (NOT PLASTERBOARD) TO AVOID DAMAGE WHEN MOVING DEWARs.
- 3) ADEQUATE VENTILATION TO ENSURE 18% OXYGEN LEVEL IS MAINTAINED.
- 4) MEANS MUST BE PROVIDED TO SECURE CRYOGEN GAS CYLINDERS IN AN UPRIGHT POSITION USING A REMOVAL CHAIN OR STRAP. THIS IS TO PREVENT THE CYLINDERS FROM FALLING, WHICH MAY CAUSE INJURY OR DAMAGE. PROVIDE WALL HOOKS FOR TRANSFER LINES AS REQUIRED.
- 5) CRYOGEN DEWARs MUST NOT BE STORED WITHIN THE MAGNET ROOM.

[illegible]

Technical drawing of the Magnet Room Penetration Panel, showing four views: Front View, Top Section, Bottom Section, and Side View. Dimensions are provided in inches and millimeters.

FRONT VIEW

- Overall width: 28.0" [711mm]
- Overall height: 83.68" [2125mm]
- Top flange width: 5.69" [145mm]
- Top flange height: 11.62" [295mm]
- Top flange offset: 16.62" [422mm]
- Top flange thickness: 1.5" [38mm]
- Top flange width (inner): 27.75" [705mm]
- Top flange height (inner): 19.5" [495mm]
- Top flange offset (inner): 16.62" [422mm]
- Top flange width (outer): 66.18" [1681mm]
- Top flange height (outer): 34.0" [864mm]

TOP SECTION

- Overall width: 28.0" [711mm]
- Overall height: 83.68" [2125mm]
- Top flange width: 5.69" [145mm]
- Top flange height: 11.62" [295mm]
- Top flange offset: 16.62" [422mm]
- Top flange thickness: 1.5" [38mm]
- Top flange width (inner): 27.75" [705mm]
- Top flange height (inner): 19.5" [495mm]
- Top flange offset (inner): 16.62" [422mm]
- Top flange width (outer): 66.18" [1681mm]
- Top flange height (outer): 34.0" [864mm]

BOTTOM SECTION

- Overall width: 28.0" [711mm]
- Overall height: 83.68" [2125mm]
- Top flange width: 5.69" [145mm]
- Top flange height: 11.62" [295mm]
- Top flange offset: 16.62" [422mm]
- Top flange thickness: 1.5" [38mm]
- Top flange width (inner): 27.75" [705mm]
- Top flange height (inner): 19.5" [495mm]
- Top flange offset (inner): 16.62" [422mm]
- Top flange width (outer): 66.18" [1681mm]
- Top flange height (outer): 34.0" [864mm]

SIDE VIEW

- Overall width: 28.0" [711mm]
- Overall height: 83.68" [2125mm]
- Top flange width: 5.69" [145mm]
- Top flange height: 11.62" [295mm]
- Top flange offset: 16.62" [422mm]
- Top flange thickness: 1.5" [38mm]
- Top flange width (inner): 27.75" [705mm]
- Top flange height (inner): 19.5" [495mm]
- Top flange offset (inner): 16.62" [422mm]
- Top flange width (outer): 66.18" [1681mm]
- Top flange height (outer): 34.0" [864mm]

NOTES:

- COVER USED ON BOTH MAGNET ROOM AND EQUIPMENT ROOM SIDES OF PENETRATION PANEL. TWO COVERS ARE PROVIDED.
- COVER HEIGHT IS ADJUSTED BY TELESOPING BOTTOM SECTION INTO TOP SECTION.
- SERVICE ACCESS IS REQUIRED FOR PENETRATION PANEL COVER IN MAGNET AND EQUIPMENT ROOMS

DETAIL NOT TO SCALE

10.0" [254mm]
5.0" [127mm]
5.5" [140mm]
3.0" [76mm]
(4) 0.275" [7mm]
CABLE ACCESS 0.875" [22mm]

MOUNTING PATTERN

12.0" [305mm]
7.5" [191mm]
0.25" [6mm]
5.0" [127mm]
CABLE ACCESS

TEST HEATER LED
HEATER TEST
TEST A ○ B HEATER
CHARGER POWER
BATTERY TEST
BATTERY
RUN-DOWN

0.75" [19mm]
6.0" [152mm]
1.9" [48mm]
3.2" [81mm]

FRONT VIEW **SIDE VIEW**

DETAIL NOT TO SCALE

[illegible]

REV. DATE: D1/12/09

PLAN VIEW

51.0" [1297mm]

34.5" [877mm]

FRONT VIEW

51.0" [1297mm]

27.5" [701mm]

SCSI TOWER

LCD DISPLAY

MINIMUM AREA LOCATION FOR GOC

ALTERNATE LOCATION FOR GOC

SIDE VIEW

HOST (LCD COLOR) MONITOR

34.5" [875mm]

48.6" [1234mm]

29.5" [750mm]

GOC

DETAIL NOT TO SCALE

REV. DATE: 04/24/07

NOTE:

- INDICATES CENTER OF GRAVITY
- INDICATES AIR FLOW

MOUNTING PATTERN

LEFT SIDE VIEW

FRONT VIEW

RIGHT SIDE VIEW

MSN MODEM

SERVICE ACCESS REQUIREMENT

DO NOT SCALE

NOTE:
 • INDICATES MAGNET ISOCENTER

SIDE VIEW

20.63" [524mm]
 79.05" [2008mm]
 39.29" [998mm]
 39.05" [992mm]
 40.0" [1016mm]
 97.92" [2487mm]
 102.5" [2603mm]
 93.7" [2380mm]
 37.5" [952mm]
 130.1" [3306mm]
 26.28" [667mm]
 9.8" [249mm] x 7.9" [201mm]
 1.0" [25mm] MINIMUM CLEARANCE BETWEEN REAR PEDESTAL AND SURFACE CONNECTION ON ALL SIDES.

REAR PEDESTAL (REAR VIEW)

19.66" [499mm]
 18.50" [470mm]
 44.8" [1138mm]
 11.57" [294mm]

REAR PEDESTAL (FRONT VIEW)

FINISHED MAGNET ROOM FLOOR HEIGHT

CUT-OUT AREA FOR REAR CABLE ACCESS IS 9.8" [249mm] x 7.9" [201mm]

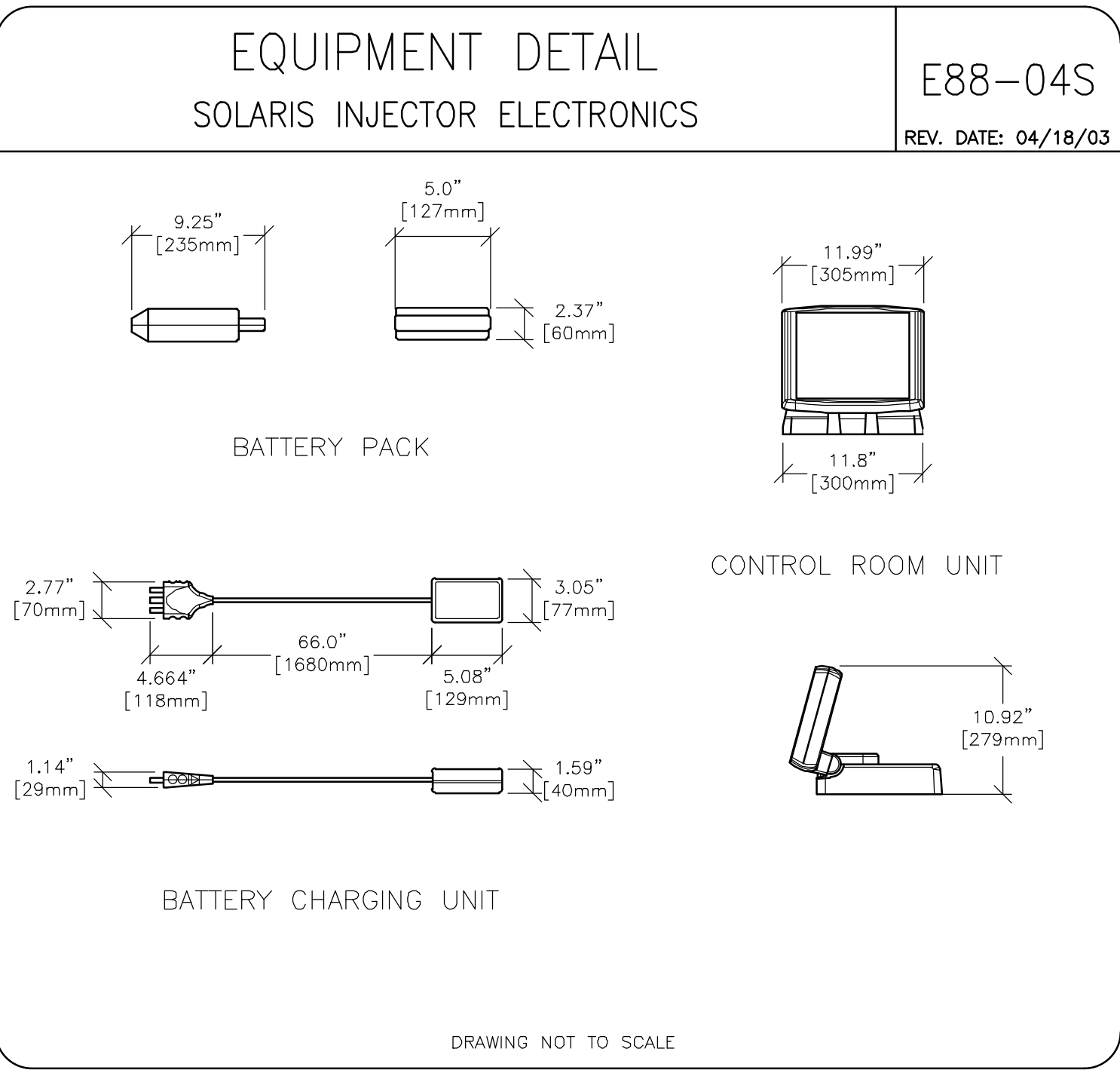
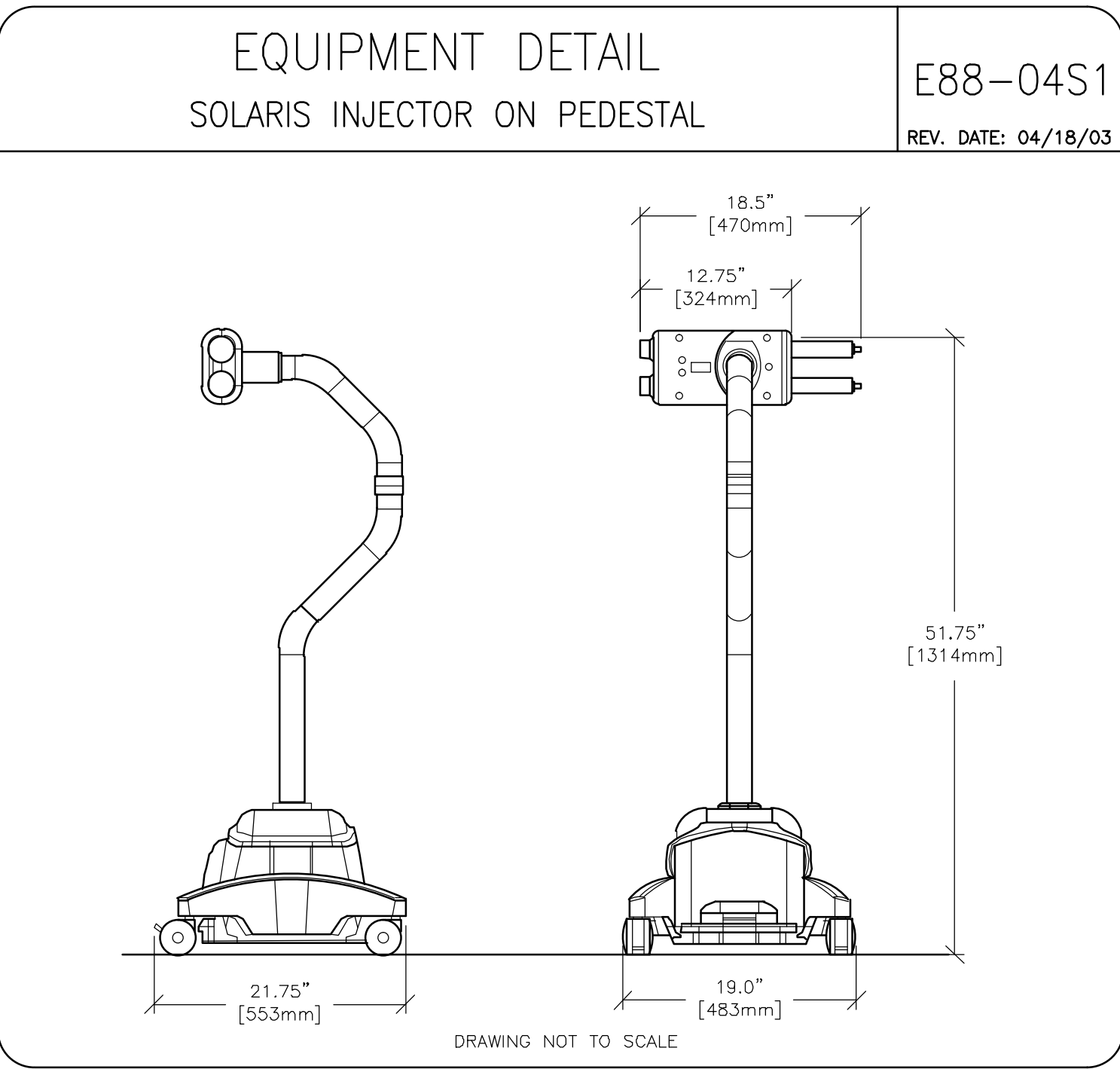
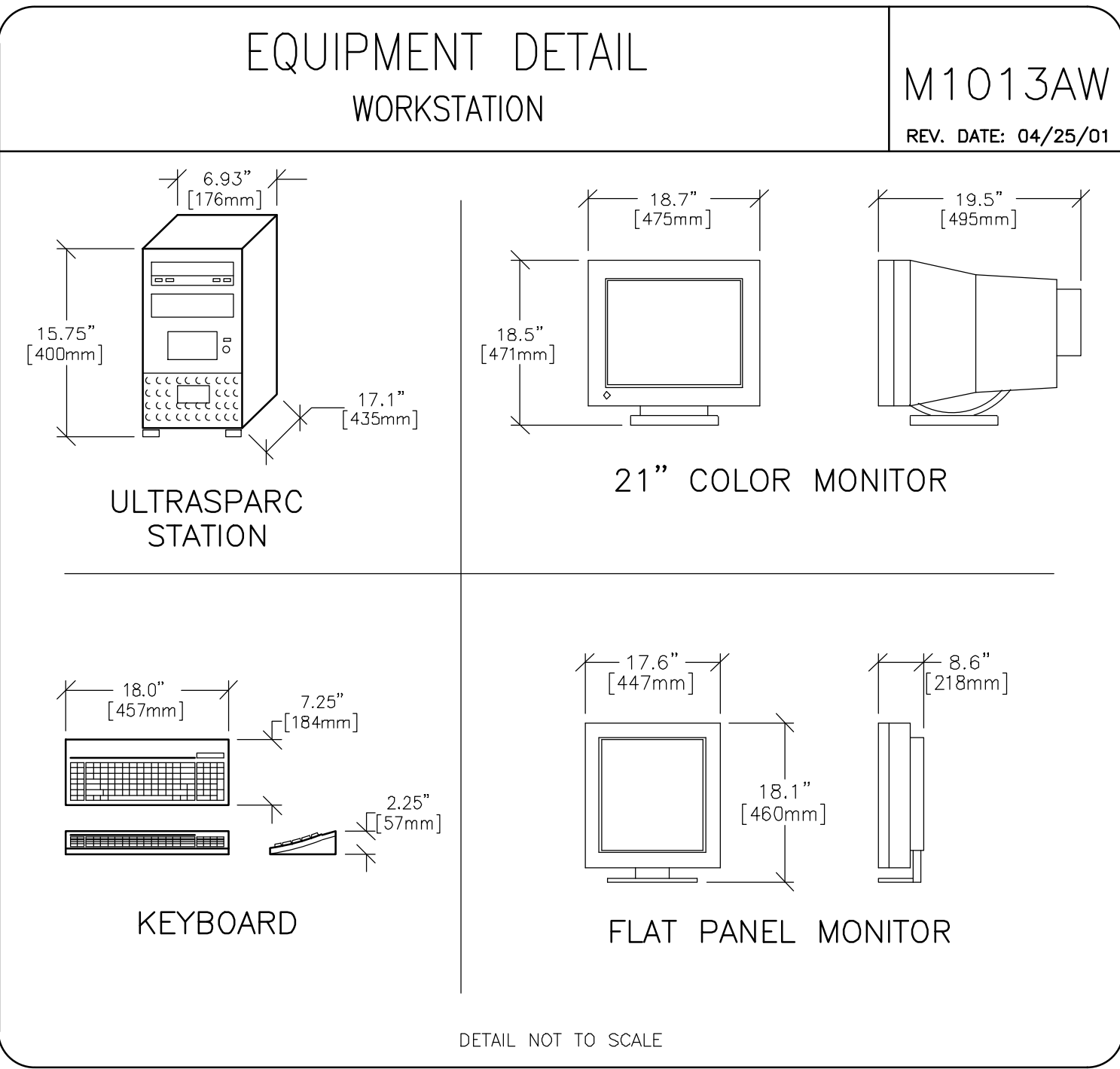
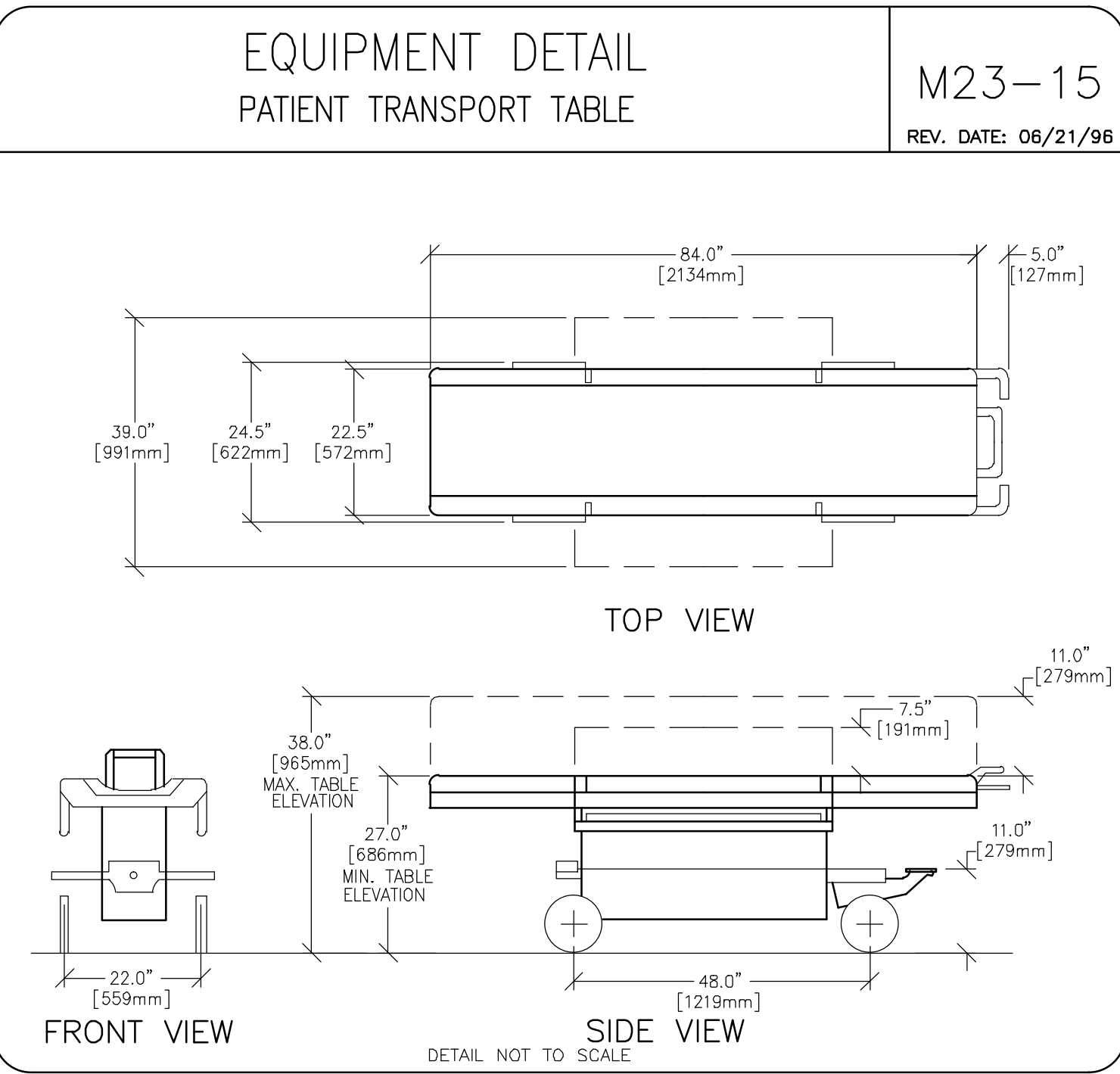
REMOVABLE DUCT COVER OR ACCESS FLOORING TO BRIDGE GAP, IF REQUIRED

SURFACE FLOORING OR ACCESS FLOORING

CUT-OUT AREA FOR CABLE ACCESS ON BOTH SIDES ARE 15.0" [381mm] x 7.9" [201mm]

SHIM LEAD [2487mm]
 RETRACTED USING LOW CEILING HEIGHT OPTION (CAT M1060SR)

SHIM LEAD [2603mm]
 RETRACTED FOR STANDARD CEILING HEIGHT



This drawing is based on Sketch No.: 8-214

PIM R9

GE Healthcare

IS Services Design Center

Wisconsin

GE

Milwaukee

SHEET TITLE: EQUIPMENT DETAILS

MODALITY TYPE: 3.0T SIGNA HDx

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

PROJECT TITLE:

8-214F

TYPICAL LAYOUT

PROJECT	REVISION
8-214F	05
DATE:	12.Jan.12
DRAWN BY:	PMM
CHECKED BY:	PMM

REVISION HISTORY:

SHEET