

ADDENDUM TO THE CONTRACT

for the

Bartlett Regional Hospital MRI & CT Replacement Contract No. BE23-042

ADDENDUM NO.: TWO

CURRENT DEADLINE FOR BIDS:

August 16, 2022

PREVIOUS DEADLINE FOR BIDS:

August 11, 2022

PREVIOUS ADDENDA: ONE

ISSUED BY: City and Borough of Juneau ENGINEERING DEPARTMENT 155 South Seward Street Juneau, Alaska 99801

DATE ADDENDUM ISSUED:

August 3, 2022

The following items of the contract are modified as herein indicated. All other items remain the same. This addendum has been issued and is posted online. Please refer to the CBJ Engineering Public Purchase webpage at: https://www.publicpurchase.com/gems/juneau,ak/buyer/public/home

PROJECT MANUAL:

Item No. 1 SECTION 00005 – TABLE OF CONTENTS. DRAWINGS.

Remove Sheet A501.

Item No. 2 SECTION 00030 – NOTICE INVITING BIDS. DEADLINE FOR BIDDER QUESTIONS.

Change the date of the Deadline for Bidder Questions **from** August 4, 2022, **to** August 8, 2022. The time remains the same.

Item No. 3 SECTION 00030 – NOTICE INVITING BIDS. DEADLINE FOR BIDS.

Change the date of the Deadline for Bids *from* August 11, 2022, *to* August 16, 2022. The time remains the same.

CLARIFICATIONS:

- Question: "Please confirm that Siemens will be the Owner's subcontractor and will not be a subcontractor to Contractor, or clarify."
- Response: Correct, Siemens is contracted under the Bartlett Regional Hospital.

Question: "Please confirm no work will be required outside of 7:00AM to 5:00PM, or clarify."

- Response: The only time CBJ and BRH believes may require outside hours work is during equipment delivery and installation performed by Siemens. Contractor will need to coordinate their scope of work with BRH/Owner for these times.
- Question: "Please confirm all permits other than Hot Works permits and ICRA Work permits are to be paid for and obtained by either Owner or Owner's designers and that Contractor will only be responsible to retrieve and post permits upon issuance, or clarify."
- Response: Correct, CBJ will furnish all required permits to contractor and contractor will post in the appropriate location.
- Question: "Please confirm all required permits and permissions for demolition and construction have been issued, or provide anticipated date the project will be fully permitted by all regulatory agencies and approved by any interested parties."
- Response: Permits are under review and are expected to be issued in 4-6 weeks from 7/27/2022.
- *Question:* "Please provide anticipated number of days after bids are submitted until issuance of Notice to Proceed."
- Response: You can expect it to take 23 to 40 calendar days, but it can be done in as few as 17 with each party rushing every step.
- Question: "Please confirm area suitable for storing items removed and salvaged by Contractor and retained by Owner or for reuse is available inside building where work is taking place, or clarify."
- Response: In the same area used for on-site contractor staging, space is available for temporary used casework and fixture storage if needed. Any high value medical equipment storage not addressed needs to be coordinated with owner.
- Question: "Please confirm parking plan west of temporary MRI Trailer can be used to safely maintain 2-way traffic, or provide preferred routing of 2-way traffic. (G102)."
- Response: Contractor shall provide a traffic control plan prior to work that affects safe 2-way traffic and minimizes loss of parking spaces.
- Question: "Please confirm existing sidewalk without modification is acceptable for access to temporary MRI Trailer, or provide description of any required modifications on sheet G102. (G102)"
- Response: There is no expected modification to sidewalk for access to temporary MRI Trailer.
- Question: "Please confirm existing shielding weights are as listed in Radiation Shielding Design by Olympic Health Physics, dated November 2021, or provide existing weights to be used. (General Note 1/D102)"
- Response: Olympic Health Physics: There is not call for new shielding in the CT rooms. The existing RF shielding is adequate per the "as-built" provided by CBJ from Jan 2011 from which the report is based on.
- Question: "Please confirm floor mount laser will require removal by Contractor to facilitate flooring work. (Demolition Sheet Flag Note 8/D102)."

Response: Correction to drawings; floor mounted laser shall be removed and stored by owner.

- Question: "Please confirm Floor MTD Laser will be reinstalled by Owner or Owner's subcontractors after installation of new floor finishes, or clarify. (Demolition Sheet Flag Note 8/D102)"
- Response: Confirmed, floor mounted laser shall be reinstalled by owner's subcontractor after the installation of new floor finishes.
- Question: "Please confirm holes left from fasteners being removed as part of demolition scope does not constitute "Damage incurred" and will not require repair to existing shielding, or clarify. (General Note 2/D102)"
- Response: Holes left from fasteners being removed is acceptable. Those would not constitute "damage incurred".
- Question: "Please confirm "remove 2x4 suspended acoustical ceiling" as shown shall be carried in Alternate 1 pricing and not in Base Bid pricing, or clarify. (C1/D102)"

Response: Base bid includes removing existing grid and acoustical ceiling tiles only as required for new work. Alternate 1 pricing includes complete demo of existing grid and acoustical ceiling tiles in preparation for new work and new ceiling grid and acoustical ceiling tiles.

- Question: "Please confirm ceiling mounted injector to be removed and retained as necessary by Owner per Demolition Sheet Flag Note 2 on D102 and not by Contractor per Demolition Reflected Ceiling Plan Sheet Flag Note 4 on D102, or clarify."
- Response: Drawing Correction; ceiling mounted injectors to be removed and retained by Owner. Sheet flag note 4 on C1/D102 incorrect.
- Question: "Please confirm removal of abandoned rooftop chiller is not in Contractor's scope of work, or add to Mechanical drawings as noted in General Note 2/D104. (General Note 2/D104)"
- Response: Confirmed. Removal of abandoned rooftop chiller is not in this projects scope of work.
- Question: "If removal of abandoned rooftop chiller is in Contractor's scope of work, please confirm no roof curb demolition of roof patching is required after removal of abandoned rooftop chiller, or clarify. (General Note 2/D104)"
- Response: Not applicable, abandoned rooftop chiller removal is not in this projects scope of work.
- Question: "Please confirm the Siemens drawings referenced are wholly contained in Appendix A, dated April 4 2022, or clarify. (Sheet Flag Note 2/A104)"
- Response: The appendix drawings contained shielding requirements only. Please see attached supplemental site specific drawings from Siemens for the MRI and CT modalities and equipment.
- Question: "Builders Risk is a property coverage and assuming there is no property interest for the Architect, necessary architect fees will be included in the B.R. coverage, but it is an Owner protection (Owner will have to pay those fees). Please confirm Architect will not need protection by Contractor's Builders Risk Insurance as there is no property interest held by Architect, or clarify. (Section 0700 5.2.C.5)"

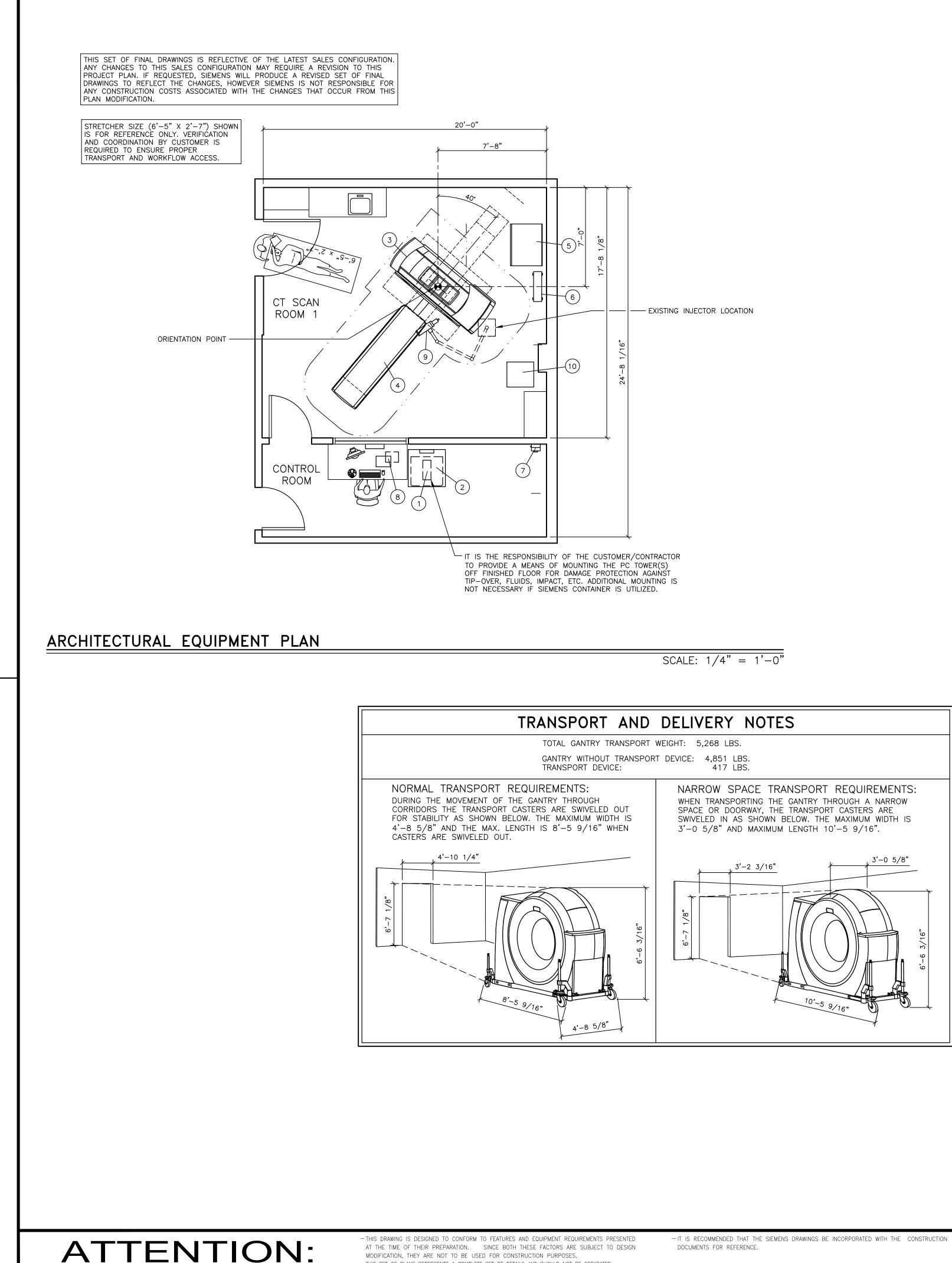
Response:	The Architect does not need coverage under the Contractor's BR policy
Question:	"Please confirm Temporary MRI Trailer will be sourced, delivered, staged, and installed by Owner or Owner's subcontractors and that Contractor is only responsible for connecting to source, routing to point of connection, and connecting to temporary distribution point above ground temporary utilities, or clarify. (G102)"
Response:	Temporary MRI Trailer will be sourced, delivered, staged and installed by Owner. Contractor is responsible for supplying the electrical hook-up ready equipment per the electrical drawing, final connections to be by MRI trailer provider.
Question:	"Please confirm injector to be removed and retained as necessary by Owner per Demolition Sheet Flag Note 2 on D102 and not by Contractor per Demolition Reflected Ceiling Plan Sheet Flag Note 3 on D103, or clarify. "
Response:	Drawing Correction; ceiling mounted injectors to be removed and retained by Owner. Sheet flag note 2 on A1/D103 incorrect.
Question:	<i>"Please confirm ceiling mounted injector to be removed and retained as necessary by Owner per Demolition Sheet Flag Note 2 on D102 and not by Contractor per Demolition Sheet Flag Note 2 on D103, or clarify."</i>
Response:	Drawing Correction; ceiling mounted injectors to be removed and retained by Owner. Sheet flag note 2 on A1/D103 incorrect.
Question:	"Please confirm flooring and base demolition will not require removal and replacement of casework not identified for removal, or clarify."
Response:	Contractor responsible for removal of casework, furniture and equipment identified in the drawings to perform the demo and replacement of flooring and base. Should there be casework, furniture or equipment erroneously omitted from the drawings, contractor shall coordinate with owner's representative for the removal of such items to perform the flooring and base work.
Question:	"Please indicate where Demolition Sheet Flag Note 5/D104 occurs."
Response:	Drawing Correction; this sheet flag note should have read "not used" on D104. This sheet flag note can be found on A1/D103, sheet flag note 3.
Question:	"Please confirm all ceiling mounted injectors to be reinstalled by Owner or Owners subcontractors in coordination with Owner removal and retention per Demolition Sheet Flag Note 2 on D102, or clarify."
Response:	Ceiling mounted injectors to be removed, retained and reinstalled by Owner.
Question:	"Please confirm new wall assembly between Room 1364 and 1314B consists of 3-5/8" x 20 ga. metal stud framing with 1 layer GWB Type X each side, or clarify. (A1/C102)"
Response:	Yes, this proposed wall assembly is fine.
Question:	<i>"Please confirm new wall assembly between Room 1364 and 1314B is constructed to 6" above ceiling, or clarify. (A1/C102)"</i>
Response:	Construct wall full-height to underside of structure above.

Question:	"Please confirm there is no conflict between Ceiling mount injector and 2's Air at room 1314A, or provide alternate ceiling layout. (C1/A102)"	2' Supply		
Response:	Drawing Correction; supply air incorrectly placed. AAI shall update ceiling plan ASI post bid award.			
Question:	"Please confirm Shielding Contractor shall be subcontractor to Owner, or (Sheet Flag Note 1/A104, General Note 1/A104)"	clarify.		
Response:	Shielding contractor shall be subcontractor to the contractor as delegated d			
Question:	"Please identify locations of Sheet Flag Note 3/A104."			
Response:	Drawing Correction; this sheet flag note should have read "not used" on A sheet flag note can be found on A1/A103, sheet flag note 2.	104. This		
Question:	"RF Shielding modifications not shown in Siemens drawings, please provi Flag Note 7, A104)"	de. (Sheet		
Response:	Please reference Siemens Detail 2/S101. There are 2 options for installin plate, one involves modifications to the floor directly above the RF shieldir Alternatively, all-thread may be installed through the shielding by the RF S Subcontractor.	ig.		
Question:	"Please confirm 3-5/8" metal stud framing is acceptable in lieu of 3-1/2" m framing, or clarify. (Sheet Flag Note 9 & 12/A104)"	etal stud		
Response:	3-5/8" metal stud acceptable.			
Question:	<i>"Please confirm new wall terminates 6" above ceiling elevation, or clarify.</i> Note 9/A104)"	(Sheet Flag		
Response:	Construct wall full-height to underside of structure above.			
Question:	"Please confirm CG not needed at new door 1353-1, or clarify. (A1/A105)"	9		
Response:	Drawing Correction; no corner guards required at new door 1353-1			
Question:	"Please confirm electrical trench shown outside of Room 1314A is existing associated work on sheets D102 & A102. (B2/A105)"	g, or show		
Response:	Drawing Correction; electrical trench outside of room 1314A on B2/A105 of exist. Please disregard.	does not		
Question:	"Please confirm 4' high impact resistant wall protection is to abut casewor casework not identified for removal and will not be required behind the sa clarify. (A105)"			
Response:	4' impact resistant wall protection to abut casework not intended for remov	val.		
Question:	<i>"Please confirm RB-1 is to be applied to existing toe kicks for casework no for removal and will not be required behind the same, or clarify. (A105)"</i>	ot identified		
Response:	Existing casework appears to have existing rubber base applied to toe kic is to replace existing rubber base with new base where this occurs.	k. Intention		
Addendum No. 2 August Bartlett Regional Hospital MRI & CT Replacement CBJ Contract No. BE23-042				

- Question: "Please confirm flooring type at electrical trench is RSF-1, or clarify. (B2/A105)"
- Response: Flooring type is RSF-1 at electrical trench.
- Question: "Please confirm new flooring and base not required below or behind casework not identified to be removed, or clarify. (A105)"
- Response: Existing casework appears to have existing rubber base applied to toe kick. Intention is to replace existing rubber base with new base where this occurs. Flooring is not intended to extend below (underneath) casework intended to remain as-is.
- Question: "Please confirm door frame 1353-1 is HM, or clarify. (A601)"
- Response: Door frame is HM (hollow metal).

for Caleb Comas By: Caleb Comas. **Contract Administrator**

Total number of pages contained within this Addendum: 31



- THIS SET OF PLANS REPRESENTS A COMPLETE SET OF DETAILS AND SHOULD NOT BE SEPARATED.

	EQUIPMENT LEGEND								
NO	DESCRIPTION	SMS	WEIGHT	BTU/HR	DIMEN	ISIONS (IN	CHES)	REMARKS	
		SYM	(LBS)	TO AIR	W	D	Н		
1	SYNGO ACQUISITION WORKPLACE AND STANDARD COMPONENTS		<55	1,706	6 7/8	16 9/16	15 9/16	OFF FLOOR/IN CONTAINER	
2	CONTAINER FOR ICS/IES	MS	77		31 1/2	31 1/2	29 1/4	HOUSING FOR ICS/IES	
3	SOMATOM DEFINITION EDGE GANTRY	B	4,851	44,357*	93 11/16	36 5/8	78	* AIR COOLED GANTRY	
4	PATIENT TABLE – MULTI PURPOSE TABLE	€®	1,433	1,024	29 1/2	95 11/16	33 7/16		
5	POWER DISTRIBUTION CABINET		1,373	6,824	35 7/16	26 15/16	76 3/4	UPS LOCATED INSIDE OF PDC	
6	IMAGE RECONSTRUCTION SYSTEM	RS	58	2,388	8	25 3/8	17 11/16		
\bigcirc	EATON SURGE PROTECTIVE DEVICE PANEL	\$ P)	13.5		7 1/2	6 11/16	12	WALL MOUNTED	
8	MEDRAD DISPLAY CONTROL UNIT/BASE UNIT (OPTION)	(N2)						BASE UNIT CAN BE PLACED UNDER COUNTER	
9	CEILING MOUNTED MEDRAD INJECTOR (OPTION)	(N3)	106					SEE MFG SPECIFICATIONS	
10	RESPIRATORY GATING	RG	_		21 1/4	22 13/16	44 1/2	MOBILE CART	

CASEWORK & ACCESSORY NOTES

1) ALL CASEWORK IS EITHER EXISTING OR IS TO BE DESIGNED, DETAILED. FURNISHED AND INSTALLED BY THE CUSTOMER AND/OR CONTRACTOR. FOLLOW DESIGN RECOMMENDATIONS INCLUDED HEREWITH, AS THEY ARE ESSENTIAL FOR THE SUCCESSFUL INSTALLATION & OPERATION OF THE SIEMENS EQUIPMENT.

2) ALL FURNITURE (CHAIRS, ETC.) FOR THE CONTROL ROOM ARE TÓ BE PROVIDED BY THE CUSTOMÉR.

	Project Milestones To Be Completed Before Ec
	Lead shielding (walls, doors, windows) complete
	Climate control functioning 24 hours a day, 7 days a week
	Delivery path verified
	Casework complete in exam and control rooms
	Floor levelness verified and within specifications
	Floor thickness verified and within specifications
	All conduits, troughs, and core drills are outside of the No Core Dri
	Carevision anchor plate installed (if applicable)
	Overhead injector support structure and plate installed (if applicable
	Ceiling height verfied (check min. height with options)
	Cables runs checked to ensure maximum length is not exceeded
	Cables inlets installed at locations per plans
	Main panel and breakers installed
	Contractor supplied electrical cabling and pigtails installed
	Contractor supplied EPO's installed and functioning
	Contractor supplied X-Ray warning light and wiring installed
	Outdoor chiller unit and service switch installed (water/air option) (i
Ц	Indoor chiller unit installed (water/air option) (if applicable)
Ц	Water lines flushed and pressure tested (for hard-piping only) (if ap
Ц	Additional fittings/adapters ordered for hard piping (water/air option
	Vertical distance between indoor and outdoor unit verified (water/ai
	Extension cables installed for chiller if standard distance exceeded
—	(water/air option) (if applicable)
Ц	Facility water verified to meet equipment requirements (Facility sup
Ц	Room lighting complete and functioning
	All rooms containing Siemens equipment are clean and dust free
	Network addresses obtained for Siemens Remote Services (SRS)



FINISHED KU	OM HEIGHT	
FOR CT GANTRY ONLY	MINIMUM 7'-6 9/16"	
CAREVISION MONITOR/CEILING MOUNT	SEE DETAIL ON S-102 SHEET	

MINIMUM 7'-6 9/16"
SEE DETAIL ON S-102 SHEET

- ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES. - THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

PLANNING REQUIREMENTS

EMERGENCY POWER OFF (EPO) BUTTONS REQUIRED IN CONTROL AREA, EXAMINATION ROOM AND EQUIPMENT AREA.

DOOR (SAFETY) SWITCH REQUIRED ON ALL DOORS ACCESSING THE EXAMINATION ROOM IN ACCORDANCE WITH LOCAL CODES.

quipment Delivery	Reference Sheet
	A-102
	A-102 A-101
	A-101
	A-101
	S-501
	S-501
orill areas	E-102
	S-102
ble)	S-102
	S-102
l	E-101
	E-102
	E-102
	E-102
	E-102
	E-501
(if applicable)	M -101
	M -101
ipplicable)	M -101
n) (if applicable)	M -101
air option) (if applicable)	A-101
ed between indoor and outdoor units	M -101
upplied water option) (if applicable)	M -101
······	A-101
	A-101
)	A-102

STATE AGENCY REVIEW

PRIOR TO SIEMENS EQUIPMENT INSTALLATION, APPROVAL OF CONSTRUCTION OR STRUCTURAL MODIFICATIONS UTILIZING X-RAY FOR DIAGNOSTIC OR THERAPEUTIC PURPOSES, MUST BE OBTAINED BY THE CUSTOMER FROM THE APPROPRIATE STATE AGENCY, IF APPLICABLE.

ARCHITECTURAL NOTES

1) ALL PRELIMINARY EQUIPMENT LAYOUTS SUBMITTED BY SIEMENS HEALTHCARE ARE BASED ON THE RECOMMENDED SPACE NECESSARY FOR THE OPERATION AND SERVICEABILITY OF THE EQUIPMENT BEING PROPOSED. SIEMENS WILL NOT SUBMIT AN EQUIPMENT LAYOUT THAT IS NOT IN THE BEST INTEREST OF BOTH THE CUSTOMER AND SIEMENS. ALL EQUIPMENT LAYOUTS ARE BASED EITHER ON AN ACTUAL SITE SURVEY OR ARCHITECTURAL DRAWINGS SUPPLIED TO SIEMENS. SIEMENS WILL NOT BE RESPONSIBLE FOR ANY ALTERATIONS THAT ENCROACH WITHIN DESIGNATED SAFETY AND SERVICE CLEARANCE ZONES AS INDICATED ON DRAWINGS (I.E., PIPE CHASES, VENTILATION DUCTS, CASEWORK, AND SOFFITS, ETC.) MADE BY THE CUSTOMER OR REQUIRED BY A CUSTOMER'S ARCHITECTURAL FIRM ONCE PRELIMINARY DRAWINGS HAVE BEEN SUBMITTED AND APPROVED. DO NOT ALTER ANY SPECIFICATIONS AND/OR DIMENSIONS WITHOUT CONTACTING AND RECEIVING WRITTEN CONFIRMATION FROM SIEMENS PROJECT MANAGER. 2) SIEMENS HEALTHCARE IS NOT AN ARCHITECTURAL OR ENGINEERING

FIRM. DRAWINGS SUPPLIED BY SIEMENS ARE NOT CONSTRUCTION DRAWINGS. THEREFORE, THESE DRAWINGS ARE TO BE USED ONLY FOR INFORMATION TO COMPLEMENT ACTUAL CONSTRUCTION DRAWINGS AVAILABLE FROM A CUSTOMER APPOINTED ARCHITECTURAL REPRESENTATIVE OR A CUSTOMER'S ENGINEERING DESIGN GROUP. THE CUSTOMER'S ARCHITECT AND GENERAL CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE CODES AND PROFESSIONAL DESIGN REQUIREMENTS INCLUDING OSHA/NEC SAFETY CLEARANCE REQUIREMENTS IN ADDITION TO SIEMENS-REQUIRED

SAFETY/SERVICE CLEARANCES SHOWN. 3) THE CUSTOMER IS RESPONSIBLE FOR ALL ROOM AND AREA PREPARATION COSTS, PROFESSIONAL FEES, PERMITS, REPORTS, AND INSPECTION FEES.

4) EQUIPMENT WARRANTIES, EXPRESSED OR IMPLIED ON THE PART OF SIEMENS SHALL BE CONTINGENT UPON STRICT COMPLIANCE WITH THE ARCHITECTURAL, STRUCTURAL, ELECTRICAL, MECHANICAL AND RECOMMENDATIONS AND REQUIREMENTS CONTAINED IN THESE DRAWINGS, UNLESS SPECIFIED OTHERWISE.

5) ALL DIMENSIONS SHOWN ARE FROM FINISHED SURFACES UNLESS SPECIFIED OTHERWISE. 6) THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING

REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST. ACTUAL PROTECTION REQUIREMENTS SHALL BE SPECIFIED BY A REGISTERED RADIATION PHYSICIST AT CUSTOMER'S ENGAGEMENT AND EXPENSE. RESPONSIBILITY FOR ALL INFORMATION AS TO THE ROOM LOCATION, USE, AND NUMBER OF ANTICIPATED EXAMINATIONS TO BE PERFORMED PER TIME PERIOD SHALL BE PROVIDED TO THE PHYSICIST BY THE CUSTOMER. THE CUSTOMER SHALL FURTHER TAKE ALL RESPONSIBILITY IN THE COMMUNICATION AND COORDINATION OF ACTIVITIES OF THE RADIATION PHYSICIST AND THE ARCHITECTURAL REPRESENTATIVE.

7) SIEMENS HEALTHCARE SHALL BE RESPONSIBLE FOR SIEMENS EQUIPMENT INSTALLATION, CALIBRATION, CONNECTION AND INSTALLATION OF SIEMENS PROVIDED CABLES. THE CUSTOMER/ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR TERMINATIONS OF CUSTOMER/ELECTRICAL CONTRACTOR-SUPPLIED CABLES TO SIEMENS EQUIPMENT. IN THE EVENT THAT SPECIFIC TRADE RULES OR LICENSE REQUIREMENTS PROHIBIT THIS, THE CUSTOMER SHALL INITIATE THE SERVICES OF APPROVED OTHER CONTRACTORS AND PAY FOR SELECTED, APPROVED PARTIES TO PERFORM

THIS WORK WITH SUPERVISION PROVIDED BY SIEMENS. CALIBRATION WHEN ACCOMPLISHED OUTSIDE OF NORMAL INSTALLATION SEQUENCES DUE TO CONTRACTOR OR TRADE RULE ACTIONS OR REQUIREMENTS SHALL BE SUPPORTED BY, CHARGED TO, AND ACCEPTED BY THE CUSTOMER AS AN ADDITIONAL INSTALLATION EXPENSE.

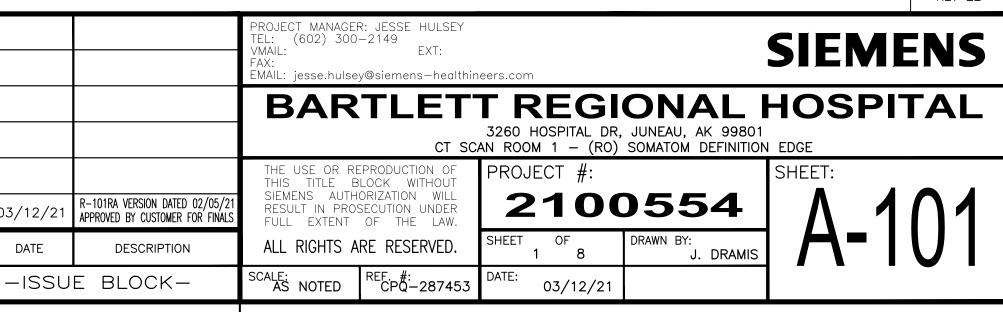
8) THE CUSTOMER SHALL COORDINATE WITH SIEMENS PROJECT MANAGER THE LOCATIONS AND TRAVEL OF ALL ANCILLARY EQUIPMENT TO BE CEILING OR WALL MOUNTED (I.E.: O.R. LIGHTS, MEDICAL GAS COLUMNS, PHYSIOLOGICAL MONITORING INJECTORS, CRT PLATFORMS, SPRINKLER HEADS, SMOKE DETECTORS, ELECTRICAL OUTLETS, HVAC GRILLES, SPEAKERS, AND GENERAL ROOM LIGHTING, ETC.).

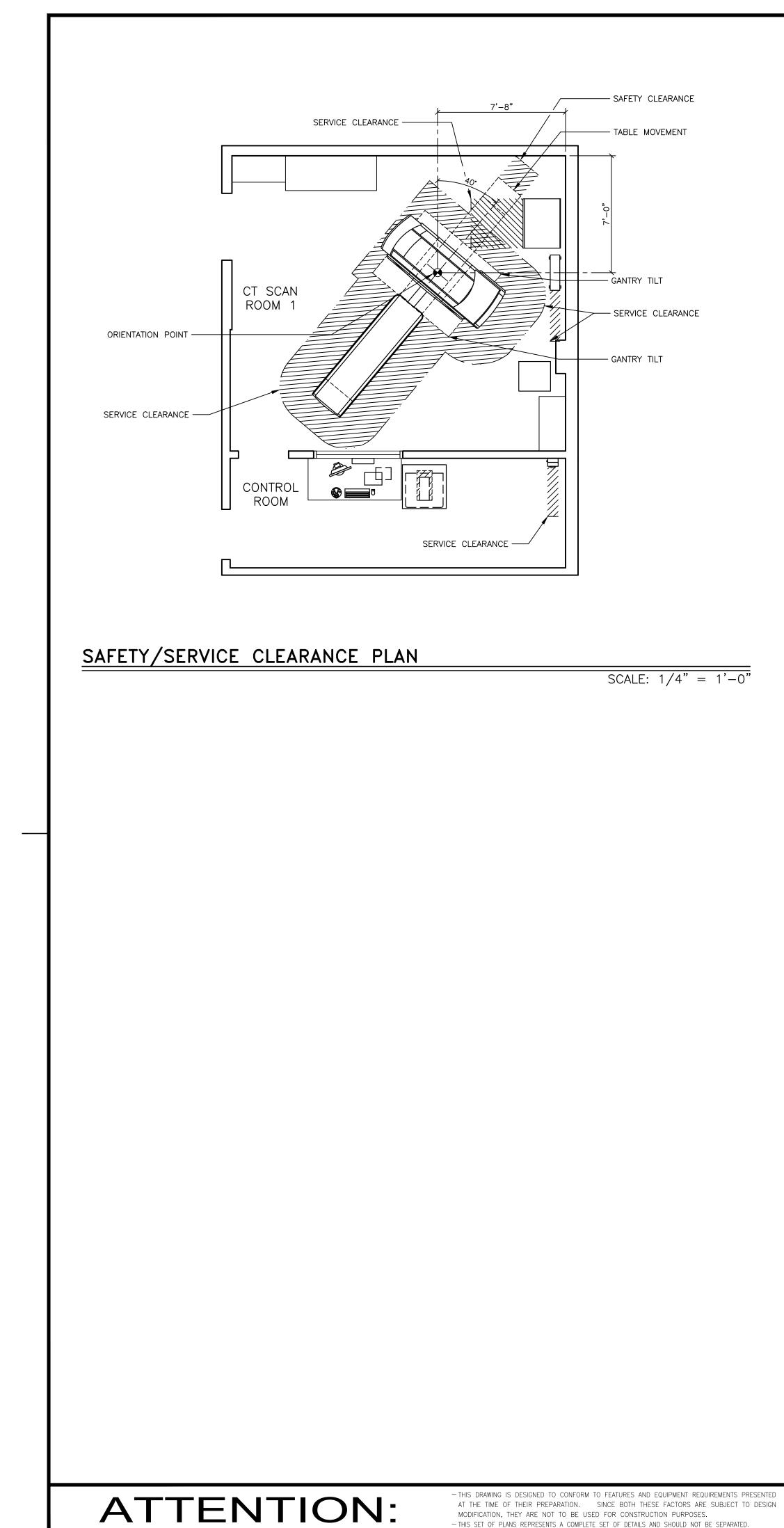
9) THE GENERAL CONTRACTOR/CUSTOMER SHALL BE RESPONSIBLE FOR ALL FINAL PAINT, TOUCH-UP AND ANY COSMETIC OR TRIM WORK WHICH NEEDS TO BE OR IS REQUIRED TO BE COMPLETED AFTER THE INSTALLATION OF THE SIEMENS EQUIPMENT AND ANY ASSOCIATED SUPPORT APPARATUS.

10) CUSTOMER/CONTRACTOR MUST ASSIST SIEMENS INSTALLERS WITH INSTALLATION OF FOUIPMENT ABOVE 14'-0". REFER TO THE FLECTRICAL NOTES ON SIEMENS SHEET E-101 FOR MORE DETAILS.

NOISE LEV	EL
SYSTEM COMPONENT	DECIBEL LEVEL (AT 3'–3" DISTANCE)
GANTRY	<70
PATIENT TABLE	<60
PDC CABINET	≤55
IRS TOWER	<55
HEAT EXCHANGER – WATER/AIR SPLIT	<60
1) NOISE DEPENDS ON THE ROOM TEMPE PROCESSOR LOAD.	ERATURE AND THE

RESOURCE LIST	(SMS USE ONL	Y)
DESIGNATION	PG NUMBER	DATE
SOMATOM DEFINITION EDGE	C2-031.891.01.24.02	11.19
COMMON CT	CT00-000.891.04.20.02	10.19
COMMON CT OPTIONS	CT00-000.891.03.45.02	03.20
		DEFINITIO





INCHES -39.4

INCHES 78.7 59.1 39.4 19.7 -19.7 -39.4 -59.1 -78.7

00.34

.0047

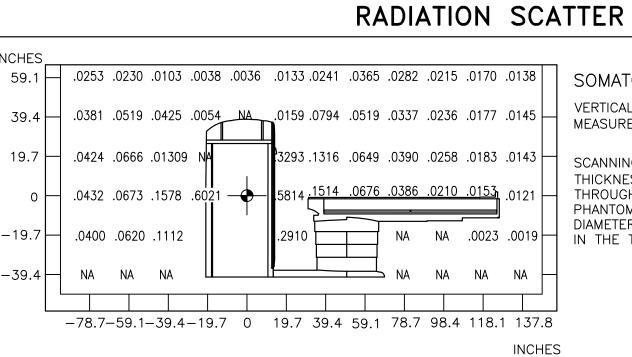
-98.4 -118.1**|**--137.8

FINISHED RO	OM HEIGHT
FOR CT GANTRY ONLY	MINIMUM 7'-6 9/16"
CAREVISION MONITOR/CEILING MOUNT	SEE DETAIL ON S-102 SHEET

- ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES. - IT IS RECOMMENDED THAT THE SIEMENS DRAWINGS BE INCORPORATED WITH THE CONSTRUCTION - THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

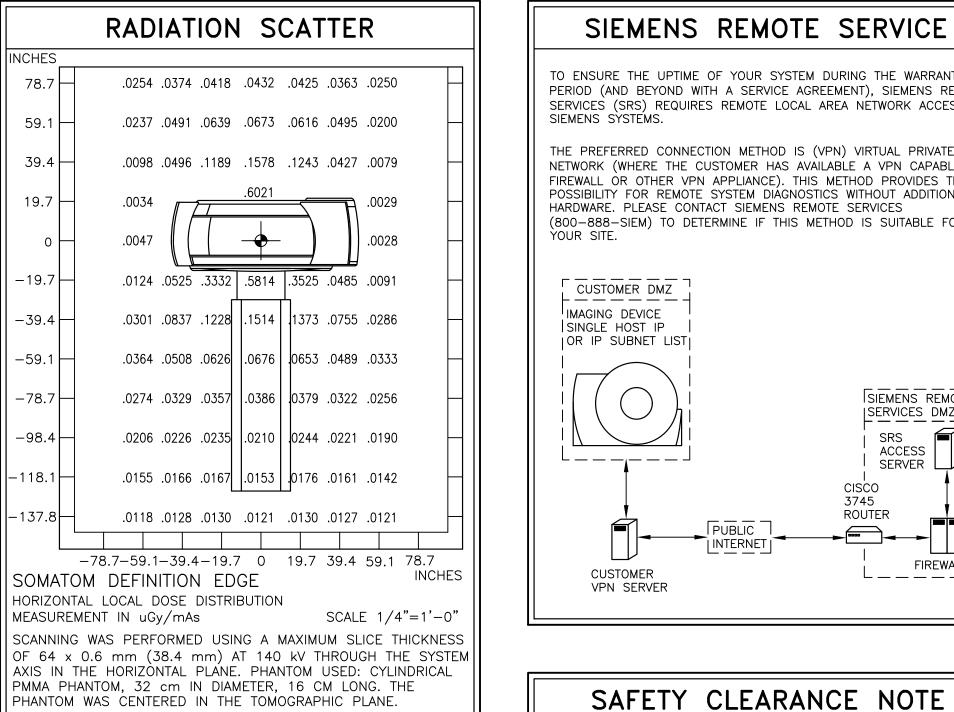


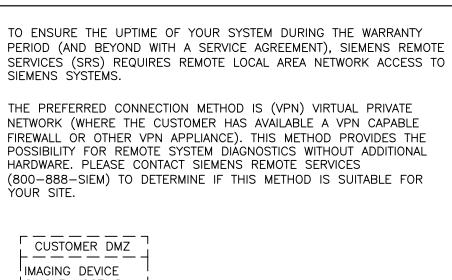
DOCUMENTS FOR REFERENCE.

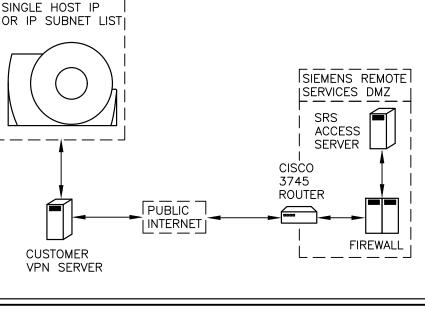


SOMATOM DEFINITION EDGE VERTICAL LOCAL DOSE DISTRIBUTION MEASUREMENT IN uGy/mAs SCALE 1/4"=1'-0"

SCANNING WAS PERFORMED USING A MAXIMUM SLICE THICKNESS OF 64 x 0.6 mm (38.4 mm) AT 140 kV THROUGH THE SYSTEM AXIS IN THE VERTICAL PLANE. PHANTOM USED: CYLINDRICAL PMMA PHANTOM, 32 cm IN DIAMETER, 16 CM LONG. THE PHANTOM WAS CENTERED IN THE TOMOGRAPHIC PLANE.



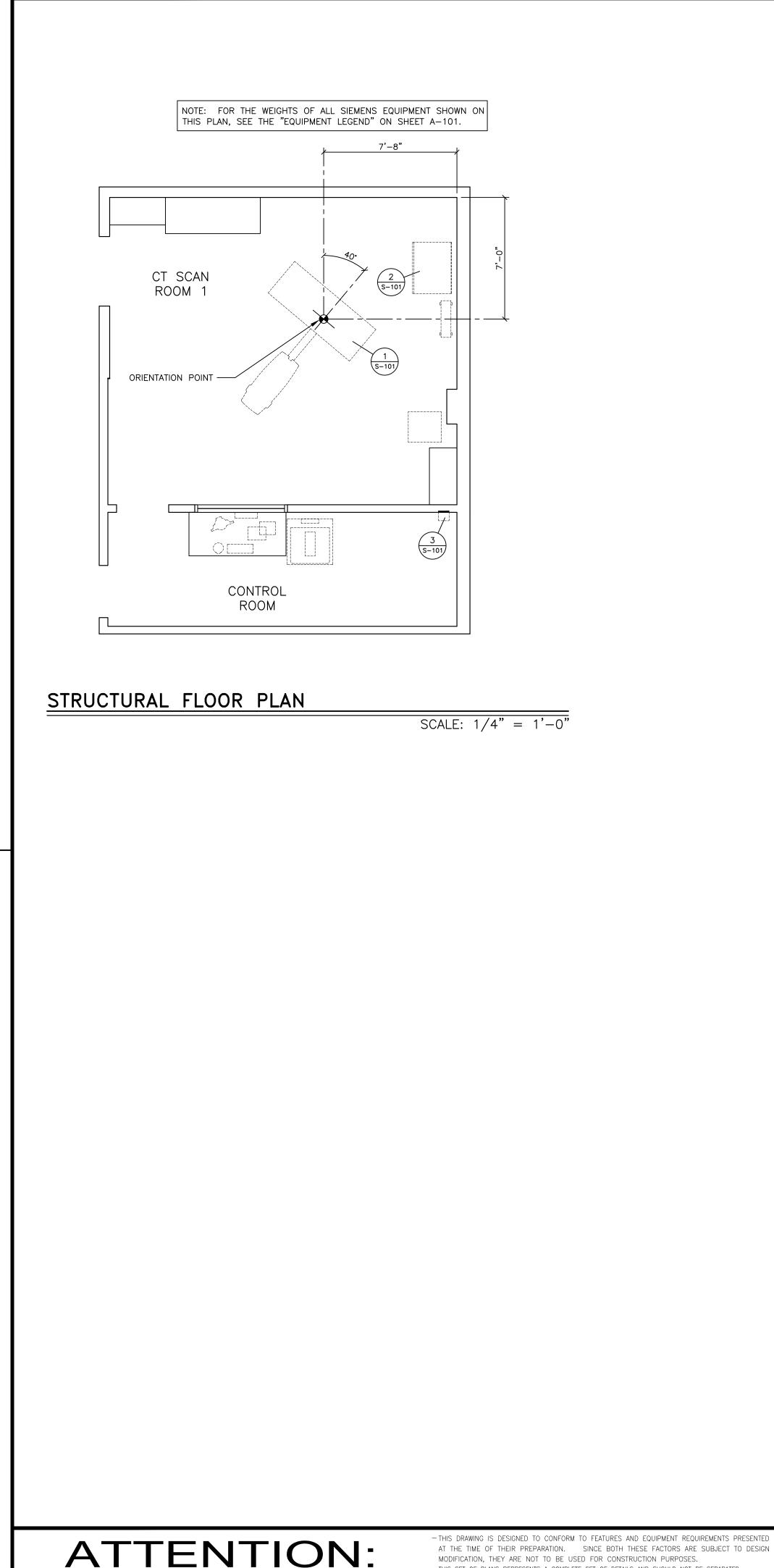




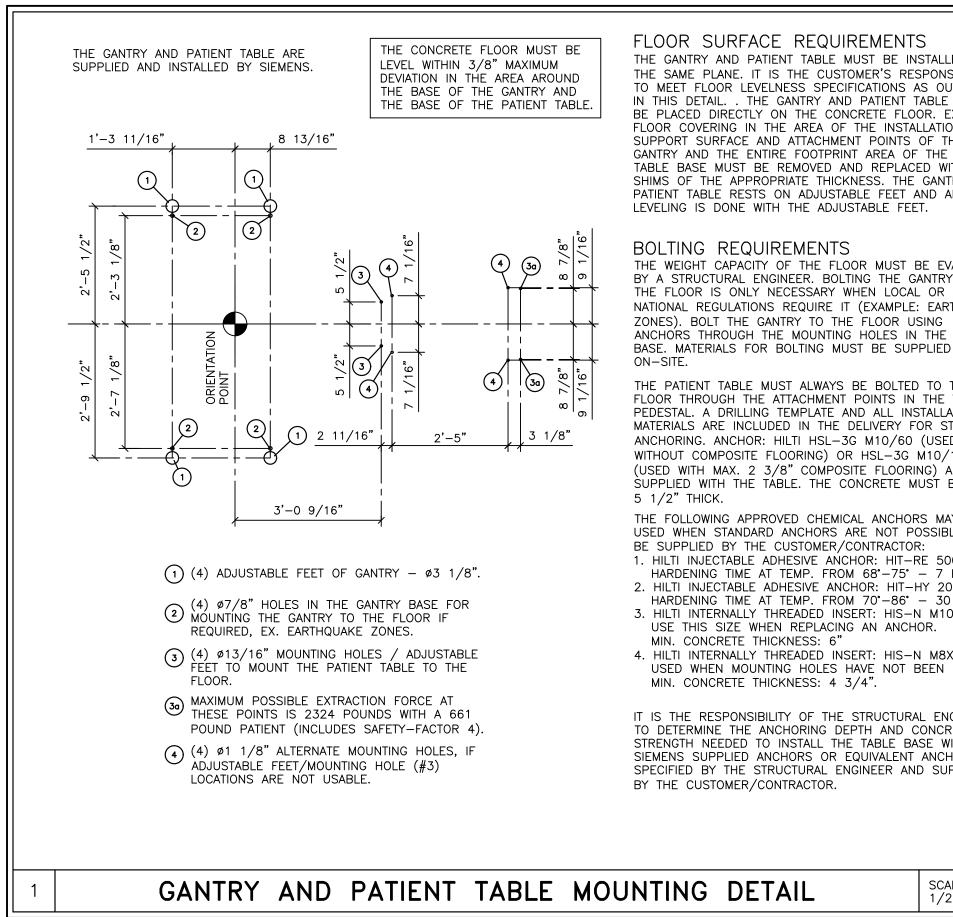
SAFETY CLEARANCE NOTE

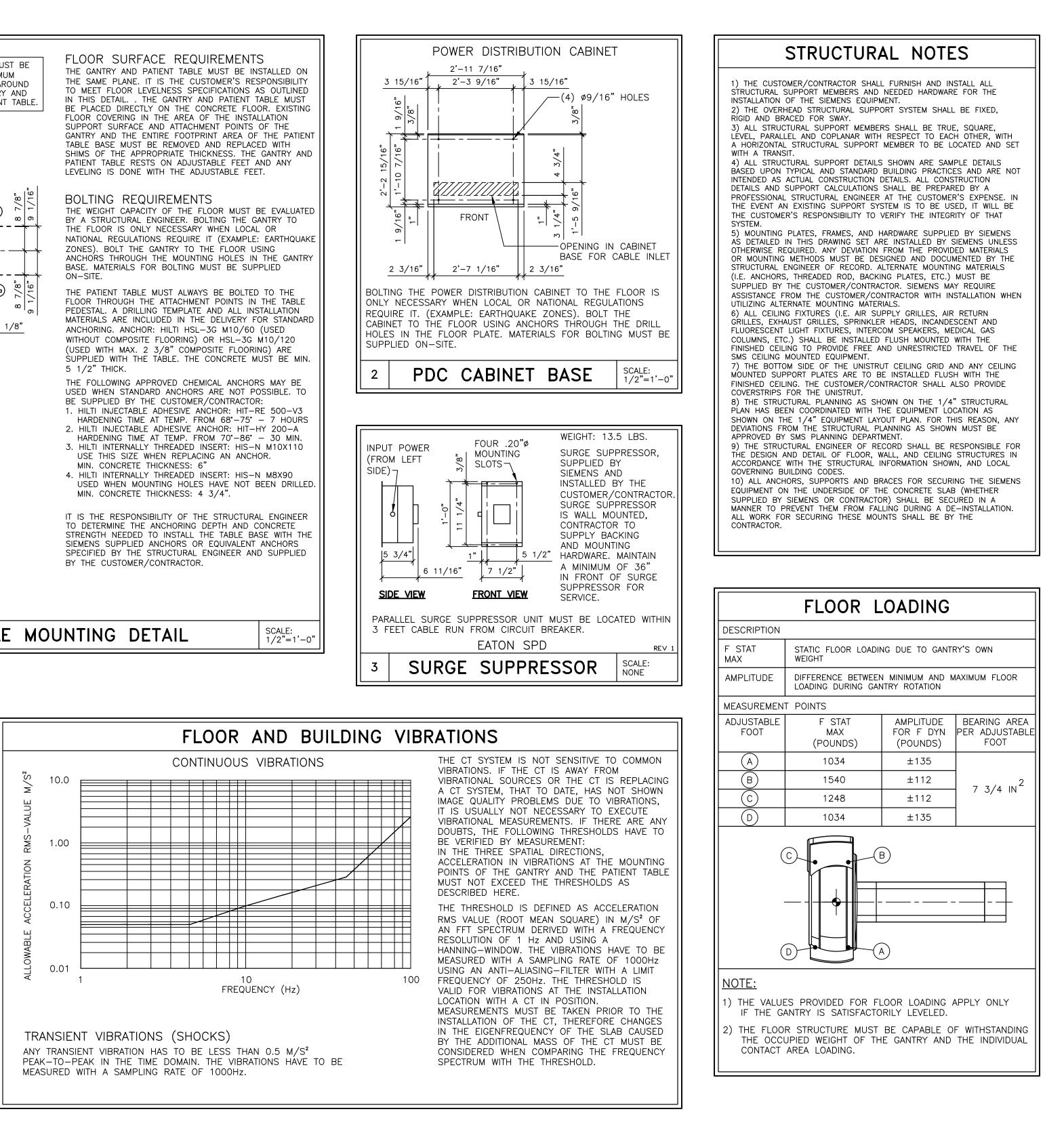
IF THE SAFETY DISTANCES ARE NOT OBSERVED, SAFETY MEASURES IN ACCORDANCE WITH LOCAL CODES SHOULD BE UTILIZED (FOR EXAMPLE BARRIERS, WARNING SIGNS, AND SAFETY MATS).

		PROJECT MANAGEF TEL: (602) 300 VMAIL: FAX: EMAIL: jesse.hulse		eers.com	1		SIEMENS
		BAR		3260	HOSPITAL DR,	JUNEAU, AK 99801 SOMATOM DEFINITION	HOSPITAL EDGE
03/12/21	R–101RA VERSION DATED 02/05/21 APPROVED BY CUSTOMER FOR FINALS	THIS TITLE B	EPRODUCTION OF LOCK WITHOUT ORIZATION WILL SECUTION UNDER OF THE LAW.		ECT #:)554	SHEET:
DATE	DESCRIPTION	ALL RIGHTS A	RE RESERVED.	SHEET	OF 2 8	DRAWN BY: J. DRAMIS	
-ISSU	E BLOCK-	SCALE: AS NOTED	^{REF.} #: CPQ-287453	DATE:	03/12/21		• -



AT THE TIME OF THEIR PREPARATION. SINCE BOTH THESE FACTORS ARE SUBJECT TO DESIGN MODIFICATION, THEY ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES. - THIS SET OF PLANS REPRESENTS A COMPLETE SET OF DETAILS AND SHOULD NOT BE SEPARATED.



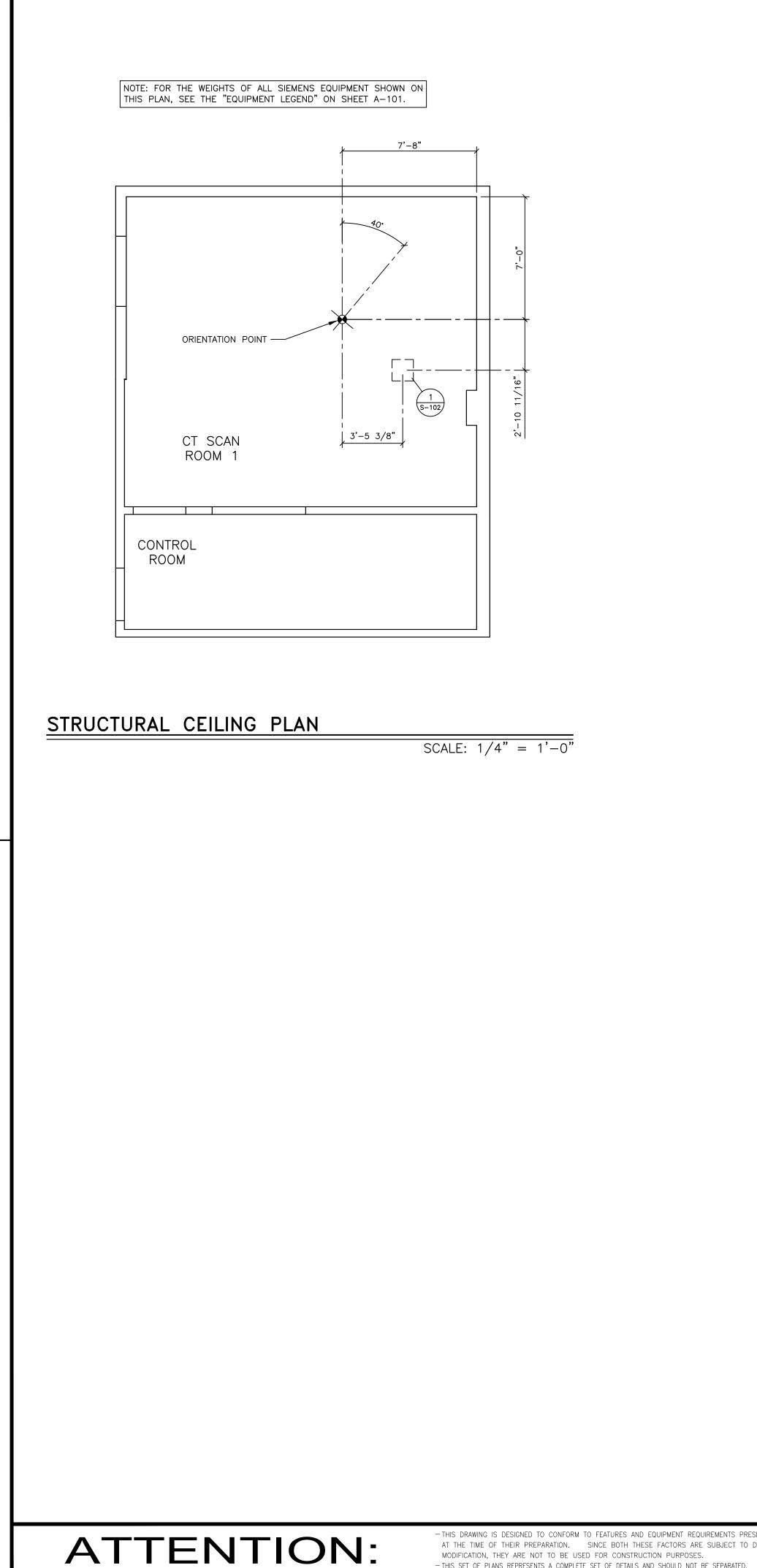


FINISHED RC	OM HEIGHT		
FOR CT GANTRY ONLY	MINIMUM 7'-6 9/16"		
CAREVISION MONITOR/CEILING MOUNT	SEE DETAIL ON S-102 SHEET		
		\triangle	03/
- ALL DIMENSIONS SHOWN ON THIS DRAWING ARE F - THIS DRAWING DOES NOT PROVIDE RADIATION SHIEL		SYM	D.
EQUIPMENT. THE CUSTOMER IS RESPONSIBLE PHYSICIST TO SPECIFY RADIATION PROTECTION.	FOR CONSULTING WITH A REGISTERED RADIATION		_

- IT IS RECOMMENDED THAT THE SIEMENS DRAWINGS BE INCORPORATED WITH THE CONSTRUCTION DOCUMENTS FOR REFERENCE.

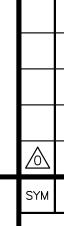
IRY'S OWN	
MAXIMUM FLOOR	
BEARING AREA PER ADJUSTABLE FOOT 7 3/4 IN ²	
	Z U Z N
APPLY ONLY DF WITHSTANDING THE INDIVIDUAL	
DEFINITION EDGE REV 22 EMENS SPITAL S-101	

ROJECT MANAGER: JESSE HULSEY SI (602) 300-2149 EXT: /MAII /All : jesse hulsev@siemens-healthineers.com **BARTLETT REGIONAL HO** 3260 HOSPITAL DR, JUNEAU, AK 99801 CT SCAN ROOM 1 - (RO) SOMATOM DEFINITION EDGE THE USE OR REPRODUCTION OF SHEET PROJECT #: THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL 2100554 R-101RA VERSION DATED 02/05/ RESULT IN PROSECUTION UNDER /12/21 APPROVED BY CUSTOMER FOR FINALS FULL EXTENT OF THE LAW. DRAWN BY ALL RIGHTS ARE RESERVED. DATE DESCRIPTION J. DRAMIS 8 SCALE: AS NOTED REF. #: CPQ-287453 DATE: ISSUE BLOCK-03/12/21



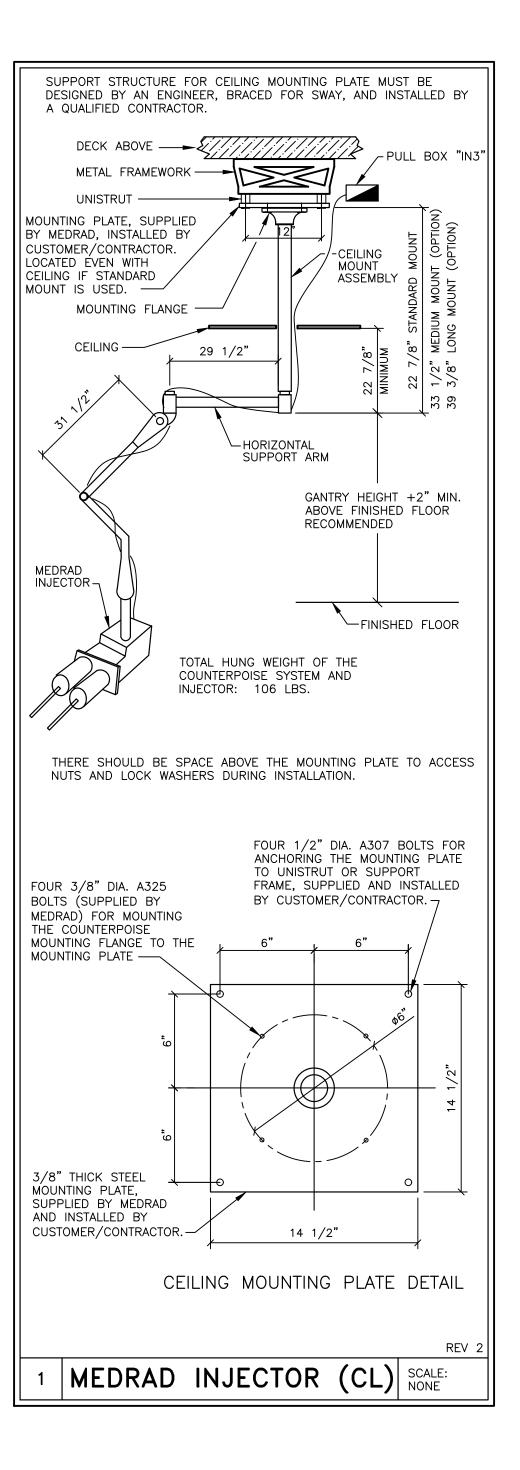
AT THE TIME OF THEIR PREPARATION. SINCE BOTH THESE FACTORS ARE SUBJECT TO D MODIFICATION, THEY ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES. -THIS SET OF PLANS REPRESENTS A COMPLETE SET OF DETAILS AND SHOULD NOT BE SEPARATED.

FINISHED RO	OM HEIGHT
FOR CT GANTRY ONLY	MINIMUM 7'-6 9/16"
CAREVISION MONITOR/CEILING MOUNT	SEE DETAIL ON S-102 SHEET

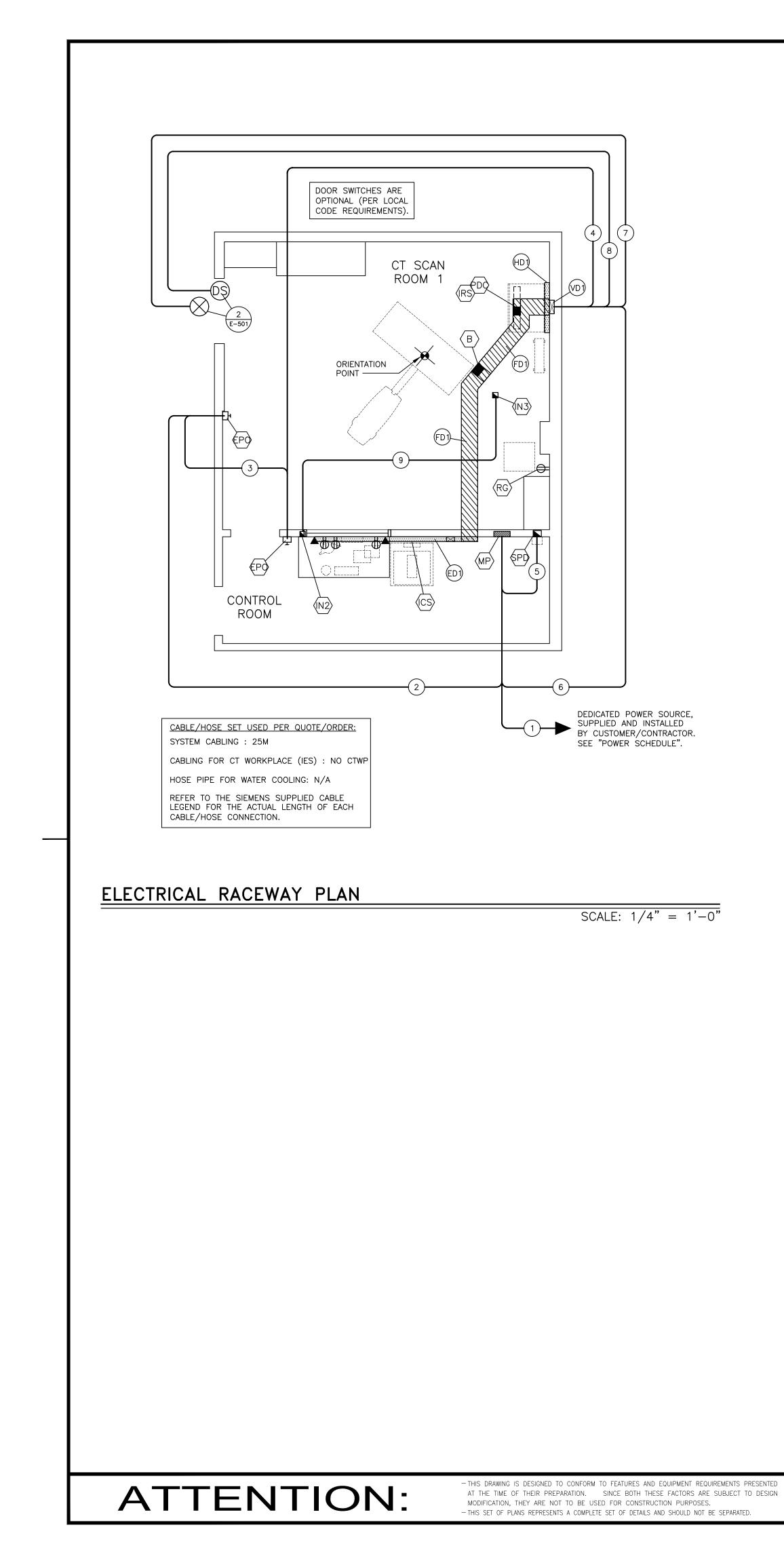


SENTED	- IT IS RECOMMENDED THAT THE SIEMENS DRAWINGS BE INCORPORATED WITH THE CONSTRUCTION	— A
DESIGN	DOCUMENTS FOR REFERENCE.	— T
		E

ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES. THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.



ROJECT MANAGER: JESSE HULSEY EL: (602) 300–2149 SIEMENS VMAIL: FAX: EXT: MAIL: jesse.hulsey@siemens-healthineers.com **BARTLETT REGIONAL HOSPITAL** 3260 HOSPITAL DR, JUNEAU, AK 99801 CT SCAN ROOM 1 – (RO) SOMATOM DEFINITION EDGE THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW. PROJECT #: HEET 2100554 R-101RA VERSION DATED 02/05/21 APPROVED BY CUSTOMER FOR FINALS 03/12/21 SHEET OF **4 8** DRAWN BY: ALL RIGHTS ARE RESERVED. DATE DESCRIPTION U J. DRAMIS REF. #: CPQ-287453 SCALE: AS NOTED DATE: -ISSUE BLOCK-03/12/21



SYMBOLS					
	ALL MAY NOT APPLY				
	MAIN PANEL OR ENCLOSURE BY CUSTOMER/CONTRACTOR				
	OPENING IN RACEWAY OR TRENCHDUCT				
	PULLBOX IN (FLOOR/WALL/CEILING)				
	OPENING IN ACCESS FLOORING				
\otimes	WARNING LIGHT (X-RAY ON)				
DS	DOOR SAFETY SWITCH				
Н	(EPO) EMERGENCY POWER OFF BUTTON				
	TRENCHDUCT				
E222223	CEILING DUCT				
[]	[] UNDER FLOOR DUCT				
	SURFACE DUCT				
\square	VERTICAL DUCT				
	ETHERNET CONNECTION TO CUSTOMER'S INFORMATION SYSTEMS NETWORK (VERIFY WITH SMS PROJECT MANAGER).				
\Rightarrow	110 VOLT, 20 AMP, HOSPITAL GRADE DUPLEX OUTLET UNLESS OTHERWISE STATED.				
	110 VOLT, 20 AMP, HOSPITAL GRADE QUAD OUTLET				
	SPECIAL PURPOSE RECEPTACLE				

CONDUIT LENGTH CALCULATIONS

IF SITE SPECIFIC CONDITIONS EXCEED THE FOLLOWING ASSUMED VALUES THEN ADDITIONAL LENGTH MUST BE SUBTRACTED BY THE ELECTRICAL CONTRACTOR FROM THE MAXIMUM CONDUIT LENGTHS LISTED.

IF DUCT LOCATIONS ARE ALTERED FROM THE SHOWN LAYOUT IT IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO RECALCULATE THE MAXIMUM CONDUIT LENGTHS.

ASSUMED VALUES USED IN CALCULATING STATED MAXIMUM

CONDUIT LENGTHS: VERTICAL DUCTS - 10'-0"

FLOOR PENETRATIONS - 3'-0"

		ELECTRICAL LEGEND				
SYM	REMARKS					
		SUPPLIED AND INSTALLED BY CUSTOMER/CONTRACTOR				
B	12" × 8"	OPENING IN TOP OF FLUSH MOUNTED RACEWAY IN SHOWN LOCATION.	GANTRY CABLE ACCESS			
Ð		EMERGENCY POWER OFF BUTTON. EXACT LOCATIONS TO BE DETERMINED BY CUSTOMER/CONTRACTOR.	SEE POWER SCHEDULE			
(CS)	12" × 4"	OPENING IN RACEWAY IN SHOWN LOCATION.	IMAGE CONSTRUCTION SYS			
	AS REQUIRED	PULL BOX MOUNTED FLUSH WITH FINISHED WALL AT FLOORLINE. THERE SHOULD ALSO BE AN ETHERNET CONNECTION AND (2) OUTLETS LOCATED NEAR THE PULL BOX TO SUPPLY 110/220 VAC.	INJECTOR ELECTRONICS			
(N3)	AS REQUIRED	PULL BOX MOUNTED ABOVE FINISHED CEILING IN SHOWN LOCATION.	CEILING MTD. INJECTOR			
(RS)		FIXED POINT DESIGNATION, SAME PULL BOX/OPENING AS PDC.				
MP		MAIN PANEL WITH MAIN BREAKER. EXACT LOCATION DETERMINED BY CUSTOMER/CONTRACTOR.	SEE POWER SCHEDULE.			
@ Ø	12" × 5"	OPENING IN RACEWAY IN SHOWN LOCATION.	POWER DISTRIBUTION CAB.			
RG		MAIN SOCKET INTEGRATED INTO REAR SIDE OF TROLLEY.	RESPIRATORY GATING			
(PD)	AS REQUIRED	REQUIRED PULL BOX MOUNTED FLUSH WITH FINISHED WALL PROVIDED WITH 2"Ø OPENING IN FINISHED SEE DE COVER. THE SURGE PROTECTIVE DEVICE MUST BE LOCATED WITHIN 3 FEET CABLE RUN FROM CIRCUIT BREAKER, AT HEIGHT DETERMINED BY CUSTOMER/ CONTRACTOR.				
(B1)	EXISTING	HORIZONTAL ELECTRICAL DUCT THAT IS CUSTOMER'S EXISTING IN THE ROOM, WHICH THEY WISH TO REUSE.	RACEWAY			
	12" x 2 1/2"	ELECTRICAL DUCT MOUNTED FLUSH WITH FINISHED FLOOR (TRENCH DUCT) AND PARALLEL WITH THE FLOOR SLAB IN SHOWN LOCATION. PROVIDED WITH WATERPROOF, REMOVABLE COVERS FINISHED TO MATCH FLOORING. DUCT TO BE DIVIDED INTO TWO SECTIONS WITH METAL DIVIDERS.	RACEWAY			
1	10" x 3 1/2"	ELECTRICAL DUCT RUN HORIZONTALLY ON THE WALL AT THE FLOOR LINE AND SURFACE MOUNTED ON FINISHED WALL AS SHOWN FOR EXCESS CABLE STORAGE.	RACEWAY			
	10" x 3 1/2"	ELECTRICAL DUCT MOUNTED FLUSH WITH FINISHED WALL IN SHOWN LOCATION PROVIDED WITH FINISHED, REMOVABLE COVERS. TO EXTEND FROM FLOOR LINE TO END ABOVE FINISHED CEILING. DUCT TO BE DIVIDED INTO TWO SECTIONS WITH METAL DIVIDERS.	RACEWAY			
(1)	AS REQUIRED	CONDUIT FROM POWER SOURCE TO "MP" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE			
2	AS REQUIRED	CONDUIT FROM "MP" TO "EPO" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE			
3	AS REQUIRED	CONDUIT FROM "EPO" TO "EPO" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE			
4	AS REQUIRED	CONDUIT FROM "EPO" TO "VD1" (PDC), SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE			
5	AS REQUIRED	CONDUIT FROM "MP" TO "SPD" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE			
6	AS REQUIRED	CONDUIT FROM "MP" TO "VD1" (PDC), SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE			
7	AS REQUIRED	CONDUIT FROM "VD1" (PDC) TO "WARNING LIGHT".				
8	AS REQUIRED	CONDUIT FROM "VD1" (PDC) TO "DS".				
9	2-1/2"ø	CONDUIT FROM "IN2" TO "IN3".	MAX. CONDUIT LENGTH 75'–0"			

CONTRACTOR SUPPLIED CABLES						
FROM	VIA	то	DESCRIPTION	REMARKS		
POWER SOURCE	1	MP	3–PHASE CONDUCTORS, 1 NEUTRAL, 1 GROUND. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE		
MP	2	EPO	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE		
EPO	3	EPO	DETERMINED BY ELECTRICAL ENGINEER OF RECORD. SEE POWER SCHEDULE			
EPO	4,VD1,FD1	PDC	DETERMINED BY ELECTRICAL ENGINEER OF RECORD. SEE POWER SCHEDULE			
MP	5	SPD	3–PHASE CONDUCTORS, 1 NEUTRAL AND 1 GROUND. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE		
MP	6,VD1,FD1	PDC	3 PHASE CONDUCTORS, 1 NEUTRAL AND 1 GROUND. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE		
PDC	FD1,VD1,7	WARNING LIGHT	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.			
PDC	FD1,VD1,8	DS	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.			

SIEMENS SUPPLIED CABLES						
FROM	VIA	то	DESCRIPTION	REMARKS		
PDC	FD1,ED1	ICS	POWER CABLE; W8:300V, W12:300V, W34:GND DATA CABLE; W61:30V, W63:30V	MAXIMUM LENGTH 82'-0"		
PDC	UNDER CABINET	IRS	POWER CABLE; W7:300V, W33:GND DATA CABLE; W57:30V, W65:30V	MAXIMUM LENGTH 82'-0"		
PDC	FD1	В	POWER CABLE; W1:600V, W2:600V, W3:600V, W4:HIGH VOLTAGE, W9:300V, W30:GND DATA CABLE; W53:30V, W54:30V, W59:30V, W74:FIBER	MAXIMUM LENGTH 82'-0"		
В	FD1,ED1	ICS	CONTROL CABLE; W51:300V	MAXIMUM LENGTH 82'-0"		
В	FD1	IRS	DATA CABLE; W70:FIBER, W98:30V	MAXIMUM LENGTH 82'-0"		
IN2	9	IN3	INJECTOR CABLE	MAXIMUM LENGTH 75'-0"		
В	FD1,ED1,ICS	IN2	MEDRAD ISI900 INTERFACE	VERIFY LENGTH WITH MANUFACTURER		

FINISHED RO	OM HEIGHT
FOR CT GANTRY ONLY	MINIMUM 7'-6 9/16"
CAREVISION MONITOR/CEILING MOUNT	SEE DETAIL ON S-102 SHEET

REV 22 OJECT MANAGER: JESSE HULSEY SIEMENS (602) 300-2149 EXT: /MAII All : jesse hulsev@siemens-healthineers.com **BARTLETT REGIONAL HOSPITAL** 3260 HOSPITAL DR, JUNEAU, AK 99801 CT SCAN ROOM 1 - (RO) SOMATOM DEFINITION EDGE THE USE OR REPRODUCTION OF PROJECT #: THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL 2100554 R-101RA VERSION DATED 02/05/ RESULT IN PROSECUTION UNDER 03/12/21 APPROVED BY CUSTOMER FOR FINAL FULL EXTENT OF THE LAW. HEET DRAWN BY ALL RIGHTS ARE RESERVED. DATE DESCRIPTION 8 J. DRAMIS SCALE: AS NOTED REF. #: CPQ-287453 DATE: -ISSUE BLOCK-03/12/21

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 THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

ELECTRICAL NOTES

1) COMPLIANCE: ELECTRICAL WORK SHALL BE IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE (NFPA-70), O.S.H.A. REGULATIONS, AS WELL AS APPLICABLE REGULATIONS OF CITY, COUNTY, STATE AND FEDERAL AGENCIES. PROVIDE MATERIALS AND EQUIPMENT THAT COMPLY WITH ANSI, IEEE AND NEMA STANDARDS AND ARE U.L. LISTED AND LABELED. THE CUSTOMER'S/CONTRACTOR'S WORK AND ALL EQUIPMENT INSTALLED SHALL COMPLY WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE ADOPTED/ENFORCED BY THE AUTHORITY HAVING JURISDICTION. 2) QUALITY ASSURANCE: THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD TO INSURE THAT THE NEW WORK WILL FIT INTO THE EVISION OF STRUCTURE AS SHOWN ON THE PRAWINGS SHOULD ANY

THE EXISTING STRUCTURE AS SHOWN ON THE DRAWINGS. SHOULD ANY CONDITIONS EXIST OR BE DISCOVERED THAT PREVENT THE INSTALLATION OF WORK AS SHOWN. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO FABRICATION OF EQUIPMENT, OR THE PERFORMANCE OF ANY WORK THAT MAY BE AFFECTED. DO NOT ALTER DRAWINGS, DIMENSIONS, OR SPECIFICATIONS IN ANY WAY WITHOUT CONTACTING AND RECEIVING WRITTEN CONFIRMATION FROM SIEMENS PROJECT MANAGER. ALL DIMENSIONS ARE FROM FINISHED SURFACES. CONDUIT AND PULL BOXES TO BE INSTALLED BY THE CUSTOMER/CONTRACTOR WITH LOCATIONS BEING FIELD VERIFIED BY THE SIEMENS PROJECT MANAGER. POWER SUPPLY SOURCE: POWER SUPPLIES FOR SIEMENS HEALTHCARE EQUIPMENT SHALL BE FROM A MEDICAL IMAGING PANEL OR BUILDING SERVICE EQUIPMENT THAT IS A GROUNDED 3 OR 4-WIRE 'WYE' SOURCE PER THE SPECIFIC EQUIPMENT OPERATION REQUIREMENTS. A DEDICATED CIRCUIT SHALL BE PROVIDED THAT IS KEPT ENTIRELY FREE AND INDEPENDENT OF ALL OTHER BUILDING WIRING. NO ELEVATORS, GENERATORS, PUMPS, HVAC OR

ALL OTHER BUILDING WIRING. NO ELEVATORS, GENERATORS, PUMPS, HVAC OR SIMILAR EQUIPMENT SHALL BE CONNECTED TO THE SAME CIRCUIT OR MEDICAL IMAGING PANEL THAT SERVES THE SIEMENS HEALTHCARE EQUIPMENT. IF THE POWER SUPPLY SOURCE DOES NOT MEET THE SPECIFIC SIEMENS EQUIPMENT POWER REQUIREMENTS, THE CONTRACTOR SHALL PROVIDE THE NECESSARY EQUIPMENT REQUIRED TO ESTABLISH THE POWER SUPPLY IN ACCORDANCE WITH THE REQUIRED POWER SUPPLY PARAMETERS OF THE SIEMENS EQUIPMENT. THE CONTRACTOR SHALL COORDINATE THIS WORK WITH THE CUSTOMER AND/OR UTILITY COMPANY FIELD REPRESENTATIVE. 4) WORK FURNISHED BY CUSTOMER/CONTRACTOR: WORK NOT PROVIDED BY SIEMENS HEALTHCARE BUT SHOWN ON DRAWINGS TO BE FURNISHED AND INSTALLED BY CUSTOMER/CONTRACTOR INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING, UNLESS NOTED OTHERWISE: ELECTRICAL RACEWAYS AND DUCTS, WIRING TROUGHS, PULL BOXES, CONDUITS, CIRCUIT BREAKERS, ACCESS PANELS, EMERGENCY OFF BUTTONS, DOOR SWITCHES, WARNING LIGHTS, WIRING, WIRING DEVICES, CONNECTORS, LIGHTING EQUIPMENT AND

GROUNDING. 5) RACEWAY AND CONDUIT NOTES: ALL CONDUITS SHALL BE INSTALLED IN COMPLIANCE WITH THE CURRENT ENFORCED EDITION OF THE NATIONAL

ELECTRICAL CODE. CONDUIT BODIES SHALL NOT BE USED. WHERE A CONDUIT ENTERS A BOX, FITTING, OR OTHER ENCLOSURE, AN INSULATED THROAT CONNECTOR SHALL BE PROVIDED TO PROTECT THE WIRE FROM ABRASION. ALL CONNECTORS FOR EMT SHALL BE COMPRESSION OR DOUBLE SET SCREW TYPE. KEEP RACEWAYS AT LEAST 6 INCHES AWAY FROM PARALLEL RUNS OF

FLUES OR STEAM AND HOT WATER PIPES. INSTALL RACEWAY RUNS ABOVE WATER AND STEAM PIPES PROVIDED THAT CABLE RUN DISTANCES ARE MAINTAINED. USE TEMPORARY CLOSURES TO PREVENT FOREIGN MATTER FROM ENTERING RACEWAY. CONDUIT RUNS ARE SHOWN SCHEMATICALLY. INSTALL CONDUIT WITH A

MINIMUM OF BENDS IN THE SHORTEST PRACTICAL DISTANCE CONSIDERING THE BUILDING CONSTRUCTION AND OBSTRUCTIONS, EXCEPT AS OTHERWISE INDICATED. THE CONTRACTOR SHALL MAKE CERTAIN THAT ANY CONDUIT/RACEWAY RUNS CONTAINING SIEMENS HEALTHCARE CABLES DO NOT EXCEED THE SPECIFIED MAXIMUM DISTANCES AS SHOWN ON THE ELECTRICAL DETAILS. LISTED CONDUIT SIZES FOR SIEMENS-SUPPLIED CABLES MUST BE MAINTAINED IN ORDER TO ENABLE THE TOTAL CABLE BUNDLE INCLUDING CONNECTORS TO BE PULLED THROUGH WITHOUT DAMAGE.

PROVIDE ENCLOSED METAL WIRE DUCT RACEWAY SYSTEM WHERE SHOWN ON DRAWINGS WITH DIVIDERS TO SEPARATE THE DUCT INTO TWO OR THREE SEPARATE COMPARTMENTS AS SHOWN ON THE SIEMENS PLANS (FOR POWER AND SIEMENS HEALTHCARE CABLING). DIVIDERS AND CROSSOVER PIECES TO BE PROVIDED AS NECESSARY. THE CABLE TO CABLE AS WELL AS THE CIRCUIT TO CIRCUIT SEPARATION REQUIREMENT WAS EVALUATED DURING THE UL SYSTEM CERTIFICATION OF THE EQUIPMENT. ADDITIONAL SEPARATION OF THE SYSTEM CABLE ASSEMBLIES INTO SEPARATE OR PARTITIONED RACEWAYS, UNLESS OTHERWISE NOTED, IS NOT NECESSARY TO INSURE SEPARATION OF

CIRCUITS. PROVIDE WIRE DUCT/RACEWAY WITH ACCESSIBLE REMOVABLE COVERS. LOCATIONS OF BUILDING MATERIAL OPENINGS (I.E. ACCESS PANELS) TO BE CUT IN FIELD ARE TO BE COORDINATED WITH THE DRAWING REQUIRMENTS. AND BUILDING STRCTURE. THOSE THAT ARE NOT INDICATED OR INTERFER WITH BUILDING ELEMENTS SHALL BE COORDINATED WITH SIEMENS PROJECT MANAGER. ELECTRICAL PULL BOXES AND RACEWAY COVERS SHALL BE INSTALLED IN A MANNER TO ALLOW ACCESSIBILITY FOR INSTALLATION AND MAINTENANCE. CONTRACTORS MUST PROVIDE PULL STRINGS FOR ALL CONDUIT AND WIRE DUCT/RACEWAY. IN-FLOOR TRENCH DUCT AND FLUSH FLOOR BOXES SHALL BE PROVIDED WITH FULLY GASKETED REMOVABLE COVERS. WHEN JUNCTION BOXES AND WIRE DUCT/RACEWAY ARE MOUNTED HIGHER THAN 14 FEET ABOVE FINISHED FLOOR, THE ELECTRICAL CONTRACTOR SHALL PROVIDE TWO ELECTRICIANS TO HELP THE SIEMENS INSTALLERS PULL SIEMENS SUPPLIED CABLES AT CUSTOMER'S EXPENSE. WHEN JUNCTION BOXES AND WIRE DUCT/RACEWAY ARE MOUNTED ABOVE A HARD CEILING (I.E. SHEET ROCK), A 24" x 24" ACCESS PANEL IS REQUIRED AT EACH JUNCTION BOX AND WITHIN 2 FEET OF EACH RACEWAY TRANSITION (SUCH AS A 90 DEGREE ELBOW OR TEE) IN DUCT/RACEWAY. THERE MUST BE FREE AND CLEAR ACCESS TO JUNCTION BOXES AND WIRE DUCT/RACEWAY. WHEN ACCESS PANELS ARE LOCATED MORE THAN 3 FEET FROM JUNCTION BOXES AND WIRE DUCT/RACEWAY THE ELECTRICAL CONTRACTOR SHALL PROVIDE TWO ELECTRICIANS TÓ HELP SIEMENS INSTALLERS PULL SIEMENS SUPPLIED

CABLES AT CUSTOMER'S EXPENSE. 6) WIRING: ALL WIRING INSTALLED SHALL BE 600 VOLT CLASS, STRANDED TYPE THHN/THWN-2, SINGLE CONDUCTOR ANNEALED COPPER FOR A MAXIMUM OPERATING TEMPERATURE OF 90° C (194° F), SIZED AS INDICATED, INSTALLED IN METAL RACEWAYS. THE CUSTOMER/CONTRACTOR SHALL LEAVE A MINIMUM 10 FEET OF WIRE TAILS AT ALL OUTLET POINTS WITH WIRE IDENTIFICATION TAGGED AT BOTH ENDS FOR FINAL CONNECTION BY THE CUSTOMER/ELECTRICAL CONTRACTOR.

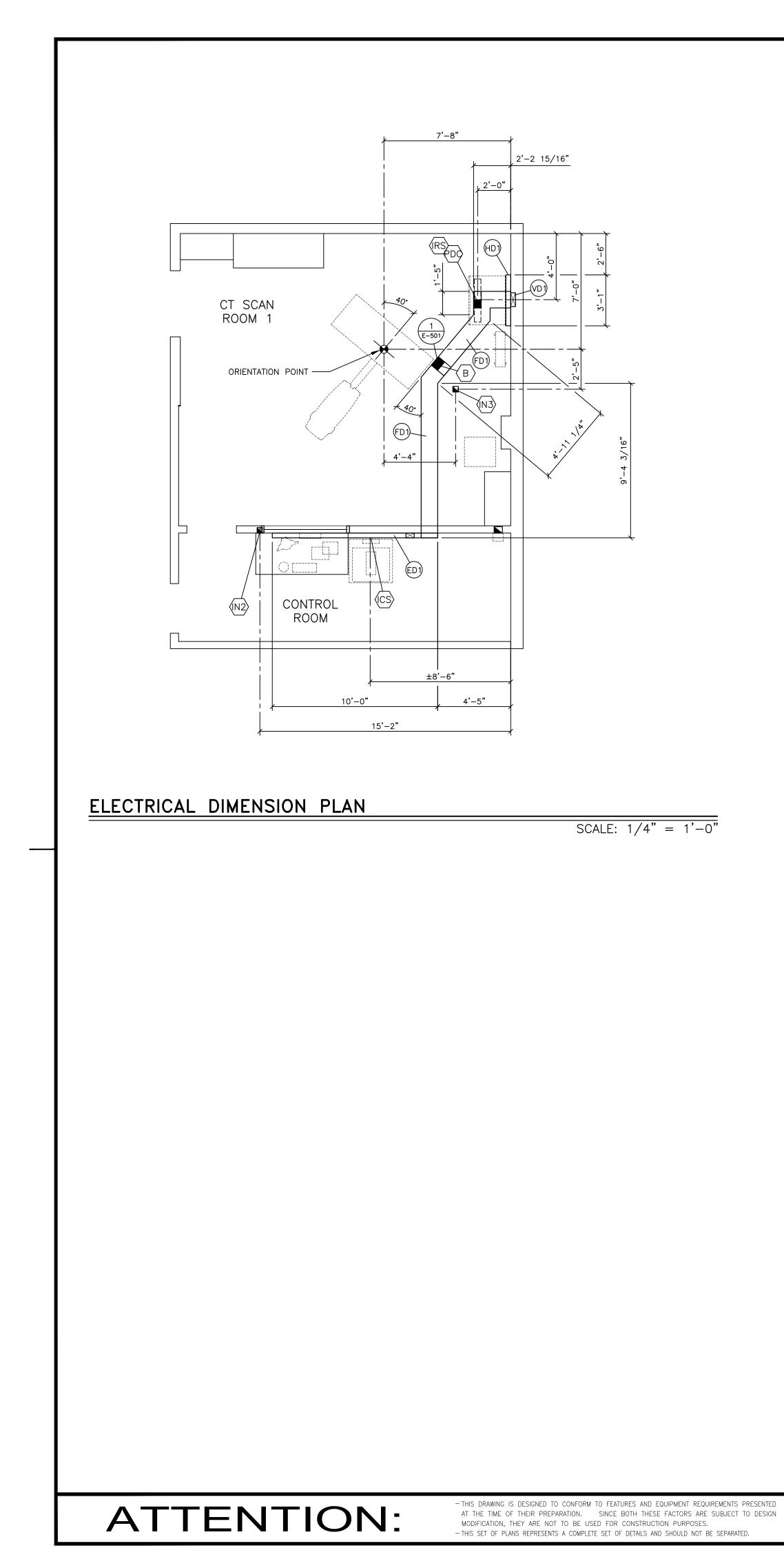
7) SHORT CIRCUIT REQUIREMENTS: ALL CIRCUIT BREAKERS SUPPLIED FOR THE SIEMENS EQUIPMENT REQUIREMENTS SHALL BE RATED HIGHER THAN THE SHORT CIRCUIT AVAILABLE AT THE TERMINALS OF THE ELECTRICAL EQUIPMENT AS DETERMINED BY THE ENGINEER OF RECORD, BUT NOT LESS THAN 35,000A RMS SYMMETRICAL AT 480V, 3–PHASE, 60 HERTZ. THE CONTRACTOR SHALL OBTAIN THE CORRECT SHORT CIRCUIT CURRENT RATING OF ALL THE NEW EQUIPMENT FOR INSTALLATION FROM THE ENGINEER OF RECORD.

POWER QUALITY

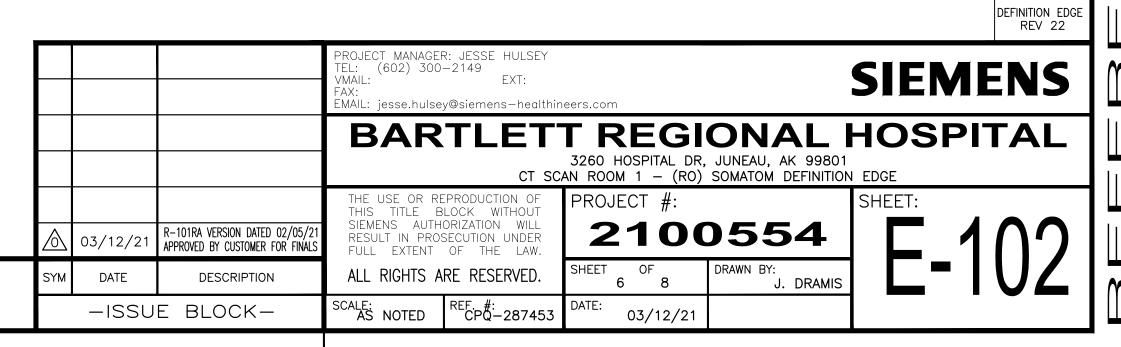
POOR POWER WILL ALTER EQUIPMENT PERFORMANCE

IT IS IN THE CUSTOMER'S INTEREST THAT THE ELECTRICAL CONTRACTOR BE RESPONSIBLE FOR TESTING AND VERIFYING THAT THE EQUIPMENT POWER SUPPLY COMPLIES WITH THE SIEMENS SPECIFICATIONS.

DEFINITION EDGE



FINISHED RO	OM HEIGHT
FOR CT GANTRY ONLY	MINIMUM 7'-6 9/16"
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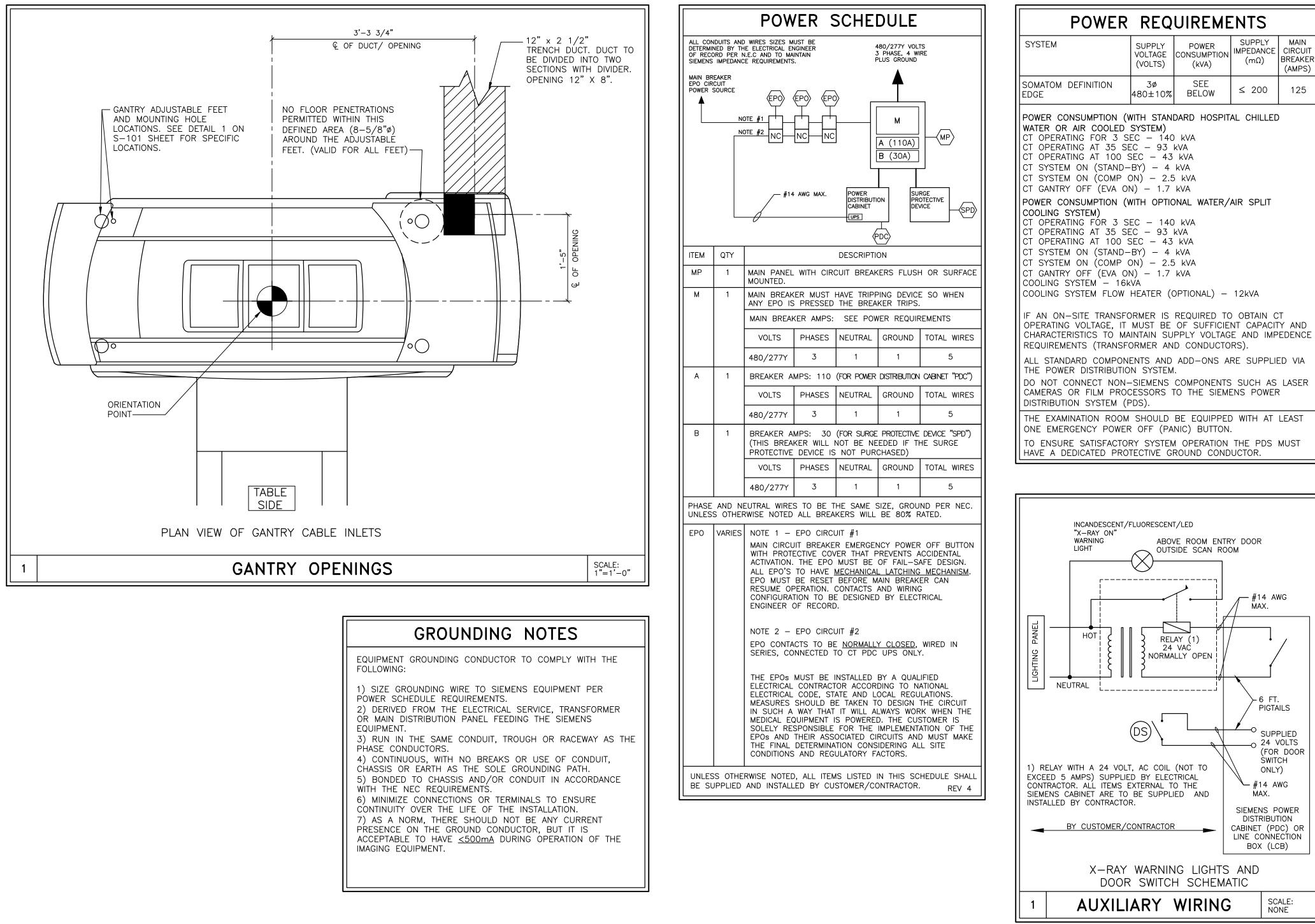


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ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES.
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ATTENTION:

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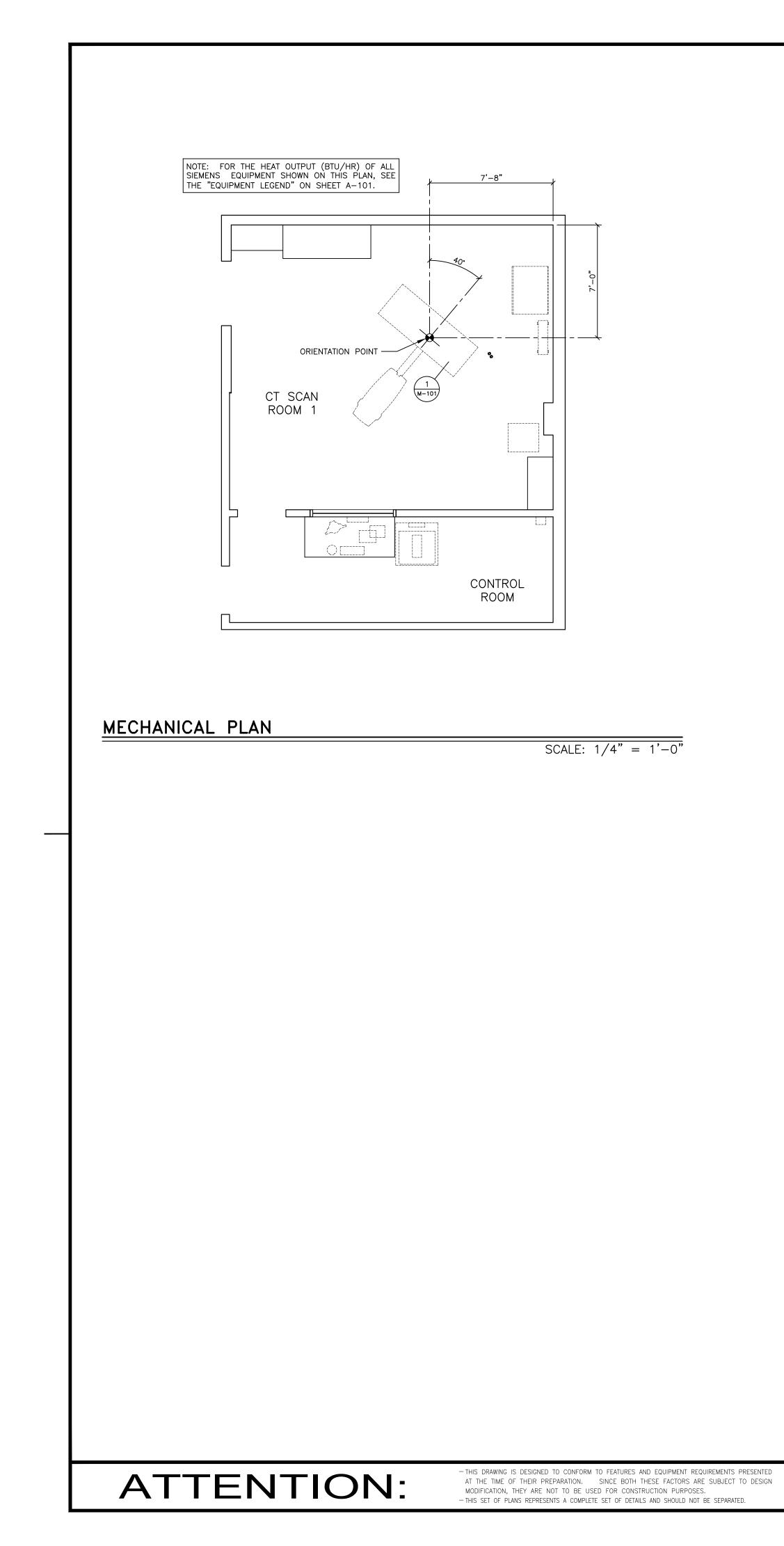


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POWER	REQ	UIREME	INTS			
SYSTEM	SUPPLY VOLTAGE (VOLTS)	POWER CONSUMPTION (kVA)	SUPPLY IMPEDANCE (mΩ)	MAIN CIRCUIT BREAKER (AMPS)		
SOMATOM DEFINITION EDGE	3ø 480±10%	SEE BELOW	≤ 200	125		
POWER CONSUMPTION (WATER OR AIR COOLED CT OPERATING FOR 3 S CT OPERATING AT 35 SE CT OPERATING AT 100 S CT SYSTEM ON (STAND- CT SYSTEM ON (COMP (CT GANTRY OFF (EVA OI POWER CONSUMPTION (W COOLING SYSTEM) CT OPERATING FOR 3 S CT OPERATING AT 35 SE CT OPERATING AT 100 S CT SYSTEM ON (STAND- CT SYSTEM ON (STAND- CT SYSTEM ON (COMP (COOLING SYSTEM - 16k COOLING SYSTEM - 16k COOLING SYSTEM FLOW IF AN ON-SITE TRANSFO OPERATING VOLTAGE, IT CHARACTERISTICS TO MA REQUIREMENTS (TRANSFO ALL STANDARD COMPON THE POWER DISTRIBUTIO DO NOT CONNECT NON- CAMERAS OR FILM PROO DISTRIBUTION SYSTEM (F THE EXAMINATION ROOM ONE EMERGENCY POWEF TO ENSURE SATISFACTOO HAVE A DEDICATED PROO	SYSTEM) EC - 140 EC - 93 SEC - 43 BY) - 2.5 N) - 2.5 N) - 1.7 WITH OPTIC EC - 140 EC - 140 EC - 93 SEC - 43 BY) - 4 ON) - 2.5 SEC - 43 BY) - 4 ON) - 2.5 N) - 1.7 VA HEATER (0 ORMER IS MUST BE INTAIN SU ORMER AND ORMER AND ENTS AND SYSTEM SIEMENS CESSORS DS). SHOULD RY SYSTEM) kVA kVA kVA kVA 5 kVA 5 kVA kVA 0 kVA kVA kVA kVA b kVA kVA cortional) – REQUIRED TO of sufficie PPLY voltag D conducto ADD-ONS AI components fo the sieme BE EQUIPPEE NIC) BUTTON 0 OPERATION	AIR SPLIT 12kVA 12kVA 0 OBTAIN C NT CAPACIT E AND IMP RS). RE SUPPLI S SUCH AS ENS POWER 0 WITH AT THE PDS	T Y AND EDENCE ED VIA LASER		
INCANDESCENT/FLUORESCENT/LED "X-RAY ON" WARNING ABOVE ROOM ENTRY DOOR LIGHT OUTSIDE SCAN ROOM						

		TEL: (602) 300 [.] VMAIL: FAX:	R: JESSE HULSEY -2149 EXT: y@siemens-healthin	eers.com			SIEMENS
		BAR		3260 H	HOSPITAL DR,	JUNEAU, AK 99801 SOMATOM DEFINITION	HOSPITAL EDGE
03/12/21	R–101RA VERSION DATED 02/05/21 APPROVED BY CUSTOMER FOR FINALS	THIS TITLE B SIEMENS AUTHO RESULT IN PROS	PRODUCTION OF LOCK WITHOUT ORIZATION WILL SECUTION UNDER OF THE LAW.		ECT #: 100)554	SHEET:
DATE	DESCRIPTION	ALL RIGHTS A	RE RESERVED.	SHEET	OF 7 8	DRAWN BY: J. DRAMIS	
-ISSU	E BLOCK-	SCALE: AS NOTED	^{REF.} #: CPQ-287453	DATE:	03/12/21		

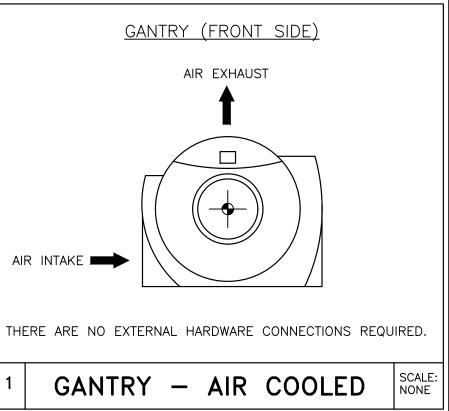


FINISHED RO	OM HEIGHT
FOR CT GANTRY ONLY	MINIMUM 7'-6 9/16"
CAREVISION MONITOR/CEILING MOUNT	SEE DETAIL ON S-102 SHEET

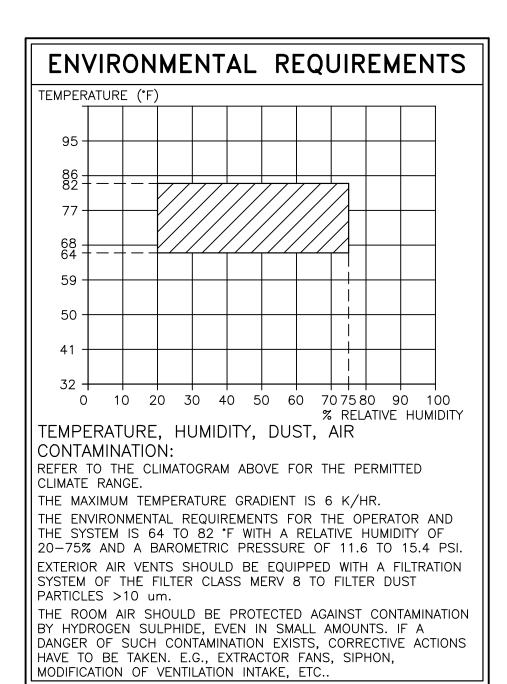
- IT IS RECOMMENDED THAT THE SIEMENS DRAWINGS BE INCORPORATED WITH THE CONSTRUCTION	- ALL DIMENSIONS SHOWN ON THIS DRAWING ARE
DOCUMENTS FOR REFERENCE.	- THIS DRAWING DOES NOT PROVIDE RADIATION SHIE
	EQUIPMENT. THE CUSTOMER IS RESPONSIBLE
	PHYSICIST TO SPECIFY RADIATION PROTECTION.

E FROM FINISHED SURFACES. IELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED E FOR CONSULTING WITH A REGISTERED RADIATION

— IT

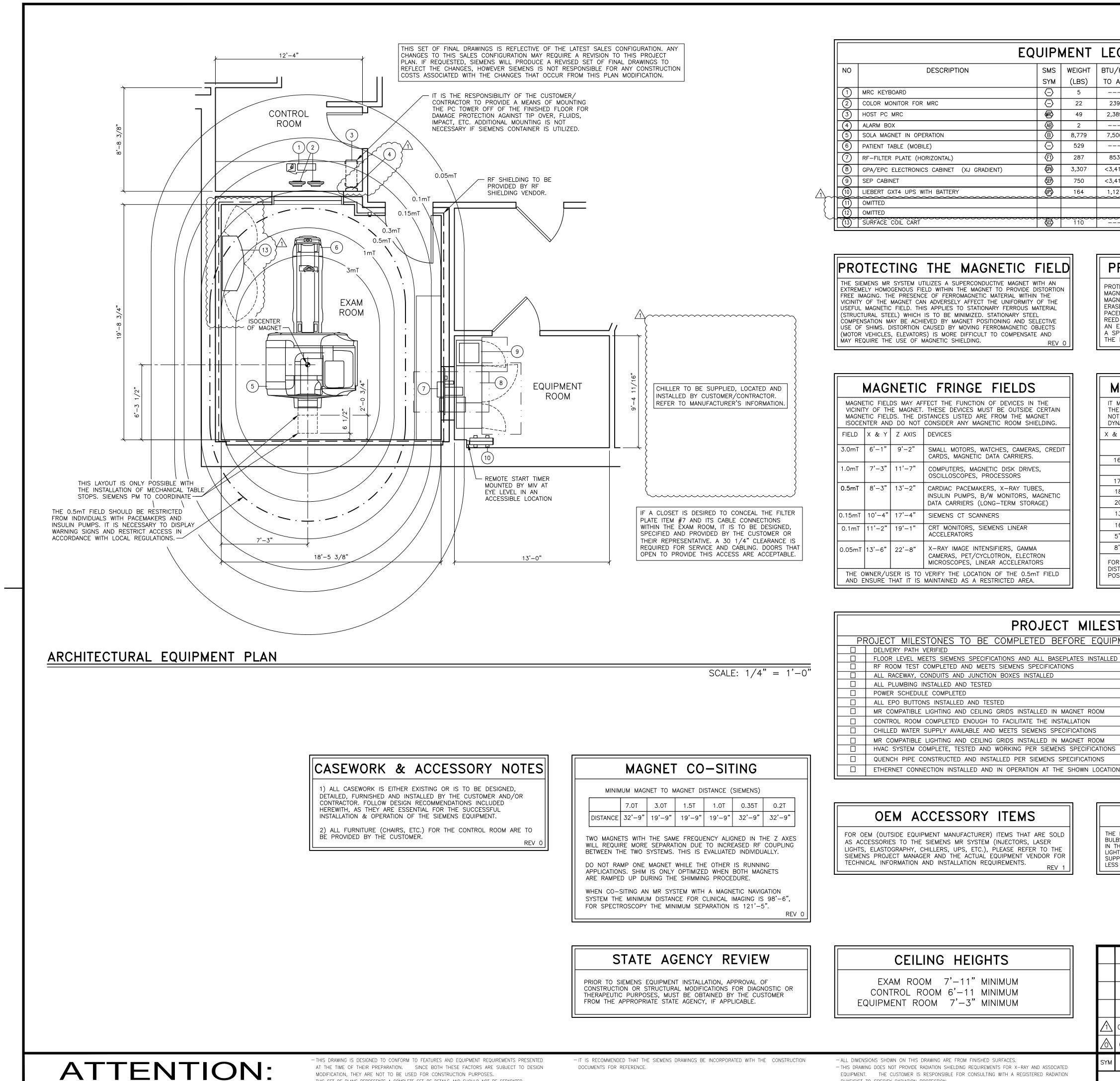


TECHNICAL DATA					
TEMPERATURE RANGE OF AIR (AIR INTAKE)	MINIMUM 64.4°F TO 82.4°F MAXIMUM				
TEMPERATURE GRADIENT (AIR INTAKE)	MAXIMUM 1 K/MINUTE MAXIMUM 6 K/HOUR MAXIMUM 4 K/WITHIN 24 HR (1)				
BTU DISCHARGE TO THE AIR: UTILIZATION OF THE SYSTEM 100%: 75%: 50%: 25%: STAND-BY:	34,144 BTU/HR 27,315 BTU/HR 20,487 BTU/HR				
AIR FLOW RATE (THROUGH THE GANTRY)	81,224 CU FT/HR				
HUMIDITY (AIR INTAKE)	20-75 %				
1) FROM "CHECK-UP" TO "CHECK UP" WHEN SWITCHING ON/OFF THE CT SYSTEM.					
AIR CONDITIONER UNIT THE RATING CAPACITY OF THE ROOM AIR CONDITIONER HAS TO TAKE INTO ACCOUNT THE STRUCTURAL CONDITIONS (EX. WINDOWS, BUILDING & ROOM THERMAL INSULATION, ROOM SIZE, ROOM VOLUME, ETC.) OF THE SCAN ROOM TO ENSURE THAT THE TEMPERATURE RANGE OF AIR NEEDED FOR THE SYSTEM IS MAINTAINED.					



DEFINITION EDGE REV 22

		TEL: (602) 300 VMAIL: FAX:	R: JESSE HULSEY -2149 EXT: y@siemens-healthin	neers.com		SIEMENS
		BAR			JUNEAU, AK 99801	HOSPITAL N EDGE
3/12/21	R-101RA VERSION DATED 02/05/21 APPROVED BY CUSTOMER FOR FINALS	THIS TITLE B SIEMENS AUTH RESULT IN PROS	PRODUCTION OF LOCK WITHOUT ORIZATION WILL SECUTION UNDER OF THE LAW.	PROJECT #: 2100	0554	
DATE	DESCRIPTION	ALL RIGHTS A	RE RESERVED.	SHEET OF 8 8	DRAWN BY: J. DRAMIS	
-ISSUI	E BLOCK-	SCALE: AS NOTED	REF. #: CPQ-287453	DATE: 03/12/21		



PROJECT MILESTONES					
PF	ROJECT MILESTONES TO BE COMPLETED BEFORE EQUIPMENT DELIVERY	REFERENCE SHEET			
	DELIVERY PATH VERIFIED	A-102			
	FLOOR LEVEL MEETS SIEMENS SPECIFICATIONS AND ALL BASEPLATES INSTALLED	S-101			
	RF ROOM TEST COMPLETED AND MEETS SIEMENS SPECIFICATIONS	A-502			
	ALL RACEWAY, CONDUITS AND JUNCTION BOXES INSTALLED	E-101			
	ALL PLUMBING INSTALLED AND TESTED	M-101			
POWER SCHEDULE COMPLETED		E-102			
	ALL EPO BUTTONS INSTALLED AND TESTED	E-101			
	MR COMPATIBLE LIGHTING AND CEILING GRIDS INSTALLED IN MAGNET ROOM	A-101			
CONTROL ROOM COMPLETED ENOUGH TO FACILITATE THE INSTALLATION		A-101			
CHILLED WATER SUPPLY AVAILABLE AND MEETS SIEMENS SPECIFICATIONS		M-101			
	MR COMPATIBLE LIGHTING AND CEILING GRIDS INSTALLED IN MAGNET ROOM	A-101			
	HVAC SYSTEM COMPLETE, TESTED AND WORKING PER SIEMENS SPECIFICATIONS	M-101			
	QUENCH PIPE CONSTRUCTED AND INSTALLED PER SIEMENS SPECIFICATIONS	M-501			
	ETHERNET CONNECTION INSTALLED AND IN OPERATION AT THE SHOWN LOCATIONS	E-101			

(LBS)

5

49

2

529

287

(CPA) 3,307

SP 750

(-) 22

SYM |

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(MRC)

 $\langle - \rangle$

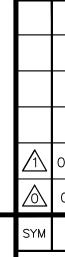
(F1)

RFV

M

FOR OEM (OUTSIDE EQUIPMENT MANUFACTURER) ITEMS THAT ARE SOLD AS ACCESSORIES TO THE SIEMENS MR SYSTEM (INJECTORS, LASER LIGHTS, ELASTOGRAPHY, CHILLERS, UPS, ETC.), PLEASE REFER TO THE SIEMENS PROJECT MANAGER AND THE ACTUAL EQUIPMENT VENDOR FOR RFV 1

LESS THAN 5%.



DOCUMENTS FOR REFERENCE.

- THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

MODIFICATION, THEY ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES.

- THIS SET OF PLANS REPRESENTS A COMPLETE SET OF DETAILS AND SHOULD NOT BE SEPARATED.

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LEGEND							
BTU/HR	DIMENSIONS (INCHES)			REMARKS			
TO AIR	W	D	Н				
	27 1/4	10 1/8	1 3/4	ON CUSTOMER'S COUNTER			
239	18 5/16	4 3/4	16 15/16	ON CUSTOMER'S COUNTER			
2,389	11	27	18 1/8	BELOW COUNTER TOP			
	9	4	9	WALL MOUNTED			
7,506	91	170	86				
	29 1/2	97 1/4	21-41				
853	46 1/2	35 1/8	21 5/8	WALL MOUNTED			
<3,412	61 1/2	26	77 1/2				
<3,412	25 5/8	25 5/8	73 5/8				
1,121	17	23 5/8	6 3/4				
	0	0	0				
<u>,,,,,</u> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0	0	0				
	55 1/8	21 1/8	47 5/8	WEIGHT WITHOUT COILS			

PROTECTING THE ENVIRONMENT

PROTECTING THE IMMEDIATE ENVIRONMENT FROM THE EFFECT OF THE MAGNETIC FIELD REQUIRES CONSIDERATION. INFORMATION STORED ON MAGNETIC DATA CARRIERS SUCH AS DISCS, TAPES AND CARDS MAY BE FRASED IF NEAR THE MAGNET, CAUTION WITH REGARD TO HEART PACEMAKERS MUST BE EXERCISED. MOST PACEMAKER UNITS EMPLOY A REED RELAY WHICH MAY CHANGE OPERATING MODE WHEN EXPOSED TO AN EXTERNAL MAGNETIC FIELD. PACEMAKER USERS MUST BE KEPT AT A SPECIFIED DISTANCE FROM THE MAGNET WHICH IS DETERMINED BY THE MAGNET FIELD STRENGTH. REV 0

IT MUST BE ENSURED THAT THE MAGNET IS LOCATED SO THAT THE STABILITY AND HOMOGENEITY OF THE MAGNETIC FIELD ARE NOT ADVERSELY AFFECTED BY EXTRANEOUS FIELDS AND STATIC OR DYNAMIC FERROMAGNETIC OBJECTS.

X & Y AXES	Z AXIS	SOURCE OF INTERFERENCE			
4'-2"		FLOOR STEEL REINFORCEMENT<20 LBS./ FT ² IRON BEAMS < 66 LBS./FT.			
16'-1"	19'-1"	MOVING METAL UP TO 110 LBS.			
13 ' —'	1"	WATER COOLING UNIT (CHILLER)			
17'-5"	21'-4"	MOVING METAL UP TO 440 LBS.			
18'-1"	24'-8"	MOVING METAL UP TO 2,000 LBS.			
20'-5"	29'-7"	ELEVATORS, TRUCKS UP TO 10,000 LBS.			
13'-1"	13'-1"	AC TRANSFORMERS LESS THAN 650 KVA			
16'-5"	16'-5"	AC TRANSFORMERS LESS THAN 1600 KVA			
5'-0"	5'-0"	AC CABLES, MOTORS LESS THAN 250 AMPS			
8'-3"	8'-3"	AC CABLES, MOTORS LESS THAN 1000 AMPS			

FOR IRON OBJECTS LOCATED UP TO 45' FROM THE Z AXIS, THE DISTANCES FOR THE Z AXIS MUST BE USED. REDUCTION IS POSSIBLE WITH STEEL SHIELDING.

EXAM ROOM LIGHTING

THE MAGNETIC FIELD ADVERSELY AFFECTS THE OPERATING LIFE OF LIGHT BULBS LOCATED IN THE IMMEDIATE VICINITY OF THE MAGNET. THE FILAMENT IN THE BULBS OSCILLATES WITH THE FREQUENCY OF THE POWER SUPPLY. LIGHTS IN THE VICINITY OF THE MAGNET CONNECTED TO A DC POWER SUPPLY CAN REDUCE THIS EFFECT. RESIDUAL DC RIPPLE SHOULD BE

ARCHITECTURAL NOTES

1) ALL PRELIMINARY EQUIPMENT LAYOUTS SUBMITTED BY SIEMENS HEALTHCARE ARE BASED ON THE RECOMMENDED SPACE NECESSARY FOR THE OPERATION AND SERVICEABILITY OF THE EQUIPMENT BEING PROPOSED. SIEMENS WILL NOT SUBMIT AN EQUIPMENT LAYOUT THAT IS NOT IN THE BEST INTEREST OF BOTH THE CUSTOMER AND SIEMENS. ALL EQUIPMENT LAYOUTS ARE BASED EITHER ON AN ACTUAL SITE SURVEY OR ARCHITECTURAL DRAWINGS SUPPLIED TO SIEMENS. SIEMENS WILL NOT BE RESPONSIBLE FOR ANY ALTERATIONS THAT ENCROACH WITHIN DESIGNATED SAFETY AND SERVICE CLEARANCE ZONES AS INDICATED ON DRAWINGS (I.E., PIPE CHASES, VENTILATION DUCTS, CASEWORK, AND SOFFITS, ETC.) MADE BY THE CUSTOMER OR REQUIRED BY A CUSTOMER'S ARCHITECTURAL FIRM ONCE PRELIMINARY DRAWINGS HAVE BEEN SUBMITTED AND APPROVED. DO NOT ALTER ANY SPECIFICATIONS AND/OR DIMENSIONS WITHOUT CONTACTING AND

RECEIVING WRITTEN CONFIRMATION FROM SIEMENS PROJECT MANAGER. 2) SIEMENS HEALTHCARE IS NOT AN ARCHITECTURAL OR ENGINEERING FIRM. DRAWINGS SUPPLIED BY SIEMENS ARE NOT CONSTRUCTION DRAWINGS. THEREFORE, THESE DRAWINGS ARE TO BE USED ONLY FOR INFORMATION TO COMPLEMENT ACTUAL CONSTRUCTION DRAWINGS AVAILABLE FROM A CUSTOMER APPOINTED ARCHITECTURAL REPRESENTATIVE OR A CUSTOMER'S ENGINEERING DESIGN GROUP. THE

CUSTOMER'S ARCHITECT AND GENERAL CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE CODES AND PROFESSIONAL DESIGN REQUIREMENTS INCLUDING OSHA/NEC SAFETY CLEARANCE REQUIREMENTS IN ADDITION TO SIEMENS-REQUIRED SAFETY/SERVICE CLEARANCES SHOWN. 3) THE CUSTOMER IS RESPONSIBLE FOR ALL ROOM AND AREA

PREPARATION COSTS, PROFESSIONAL FEES, PERMITS, REPORTS, AND INSPECTION FEES. 4) EQUIPMENT WARRANTIES, EXPRESSED OR IMPLIED ON THE PART OF

SIEMENS SHALL BE CONTINGENT UPON STRICT COMPLIANCE WITH THE ARCHITECTURAL, STRUCTURAL, ELECTRICAL, MECHANICAL AND RECOMMENDATIONS AND REQUIREMENTS CONTAINED IN THESE DRAWINGS, UNLESS SPECIFIED OTHERWISE. 5) ALL DIMENSIONS SHOWN ARE FROM FINISHED SURFACES UNLESS

SPECIFIED OTHERWISE. 6) SIEMENS HEALTHCARE SHALL BE RESPONSIBLE FOR SIEMENS EQUIPMENT INSTALLATION, CALIBRATION, CONNECTION AND INSTALLATION OF SIEMENS PROVIDED CABLES. THE CUSTOMER/ELECTRICAL

CONTRACTOR IS RESPONSIBLE FOR TERMINATIONS OF CUSTOMER/ELECTRICAL CONTRACTOR-SUPPLIED CABLES TO SIEMENS EQUIPMENT. IN THE EVENT THAT SPECIFIC TRADE RULES OR LICENSE REQUIREMENTS PROHIBIT THIS, THE CUSTOMER SHALL INITIATE THE SERVICES OF APPROVED OTHER CONTRACTORS AND PAY FOR SELECTED, APPROVED PARTIES TO PERFORM THIS WORK WITH SUPERVISION PROVIDED BY SIEMENS. CALIBRATION WHEN ACCOMPLISHED OUTSIDE OF NORMAL INSTALLATION SEQUENCES DUE TO CONTRACTOR OR TRADE RULE ACTIONS OR REQUIREMENTS SHALL BE SUPPORTED BY, CHARGED TO, AND ACCEPTED BY THE CUSTOMER AS AN ADDITIONAL INSTALLATION EXPENSE

7) THE CUSTOMER SHALL COORDINATE WITH SIEMENS PROJECT MANAGER THE LOCATIONS AND TRAVEL OF ALL ANCILLARY EQUIPMENT TO BE CEILING OR WALL MOUNTED (I.E.: O.R. LIGHTS, MEDICAL GAS COLUMNS, PHYSIOLOGICAL MONITORING INJECTORS, CRT PLATFORMS, SPRINKLER HEADS, SMOKE DETECTORS, ELECTRICAL OUTLETS, HVAC GRILLES, SPEAKERS, AND GENERAL ROOM LIGHTING, ETC.).

8) THE GENERAL CONTRACTOR/CUSTOMER SHALL BE RESPONSIBLE FOR ALL FINAL PAINT, TOUCH-UP AND ANY COSMETIC OR TRIM WORK WHICH NEEDS TO BE OR IS REQUIRED TO BE COMPLETED AFTER THE INSTALLATION OF THE SIEMENS EQUIPMENT AND ANY ASSOCIATED SUPPORT APPARATUS

9) CUSTOMER/CONTRACTOR MUST ASSIST SIEMENS INSTALLERS WITH INSTALLATION OF EQUIPMENT ABOVE 14'-0". REFER TO THE ELECTRICAL NOTES ON SIEMENS SHEET E-101 FOR MORE DETAILS.

CONSTRUCTION REQUIREMENTS

THE CUSTOMER/CONTRACTOR IS RESPONSIBLE FOR SUPPLYING AND INSTALLING ALL CONSTRUCTION MATERIALS INCLUDING ELECTRICAL AND MECHANICAL DEVICES REQUIRED BY SIEMENS SPECIFICATIONS AND TO ENSURE THAT THE MATERIAL USED INSIDE THE RF-SHIELDING IS AS FREE OF FERROMAGNETIC PROPERTIES AS POSSIBLE. STEEL WALL STUDS ARE PERMITTED BUT MUST BE SECURED PROPERLY. ANY FERROUS MATERIAL INSIDE THE EXAM ROOM MAY BECOME A PROJECTILE AND CAUSE INJURY TO PEOPLE AND DAMAGE TO EQUIPMENT. FERROUS ITEMS INSIDE THE EXAM ROOM ARE THE LIABILITY OF THE CONTRACTOR AND/OR INSTALLER.

REV 3

MAGNETIC FIELD WARNING

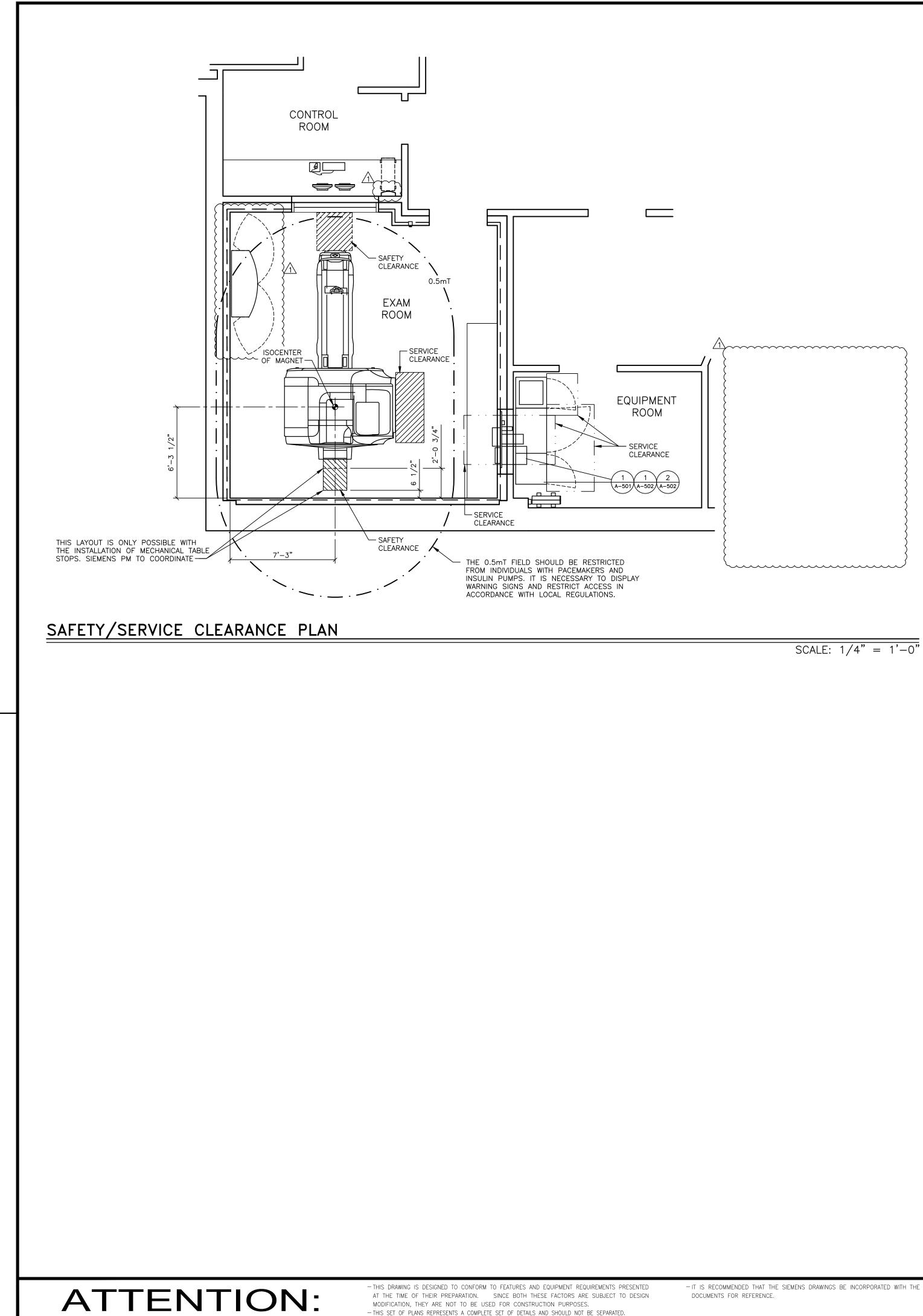
PLEASE BE AWARE THAT DURING THE CALIBRATION PHASE OF THE MRI INSTALLATION, THE MAGNET WILL BE AT FULL FIELD STRENGTH AND ALL NECESSARY PRECAUTIONS WHEN WORKING IN THE VICINITY OF STRONG MAGNETIC FIELDS MUST BE TAKEN. WHEN THE CALIBRATION OF THE MAGNET OVERLAPS WITH FINAL CONSTRUCTION ACTIVITIES, THERE IS THE POSSIBILITY OF THE INTRODUCTION OF FERROUS MAGNETIC OBJECTS BY WORKERS INTO THE MR ROOM. IT IS THE RESPONSIBILITY OF THE CUSTOMER TO ENSURE THAT ALL PRECAUTIONS ARE TAKEN TO ENSURE THAT THIS DOES NOT HAPPEN, AS EQUIPMENT DAMAGE AND SERIOUS BODILY INJURY COULD OCCUR.

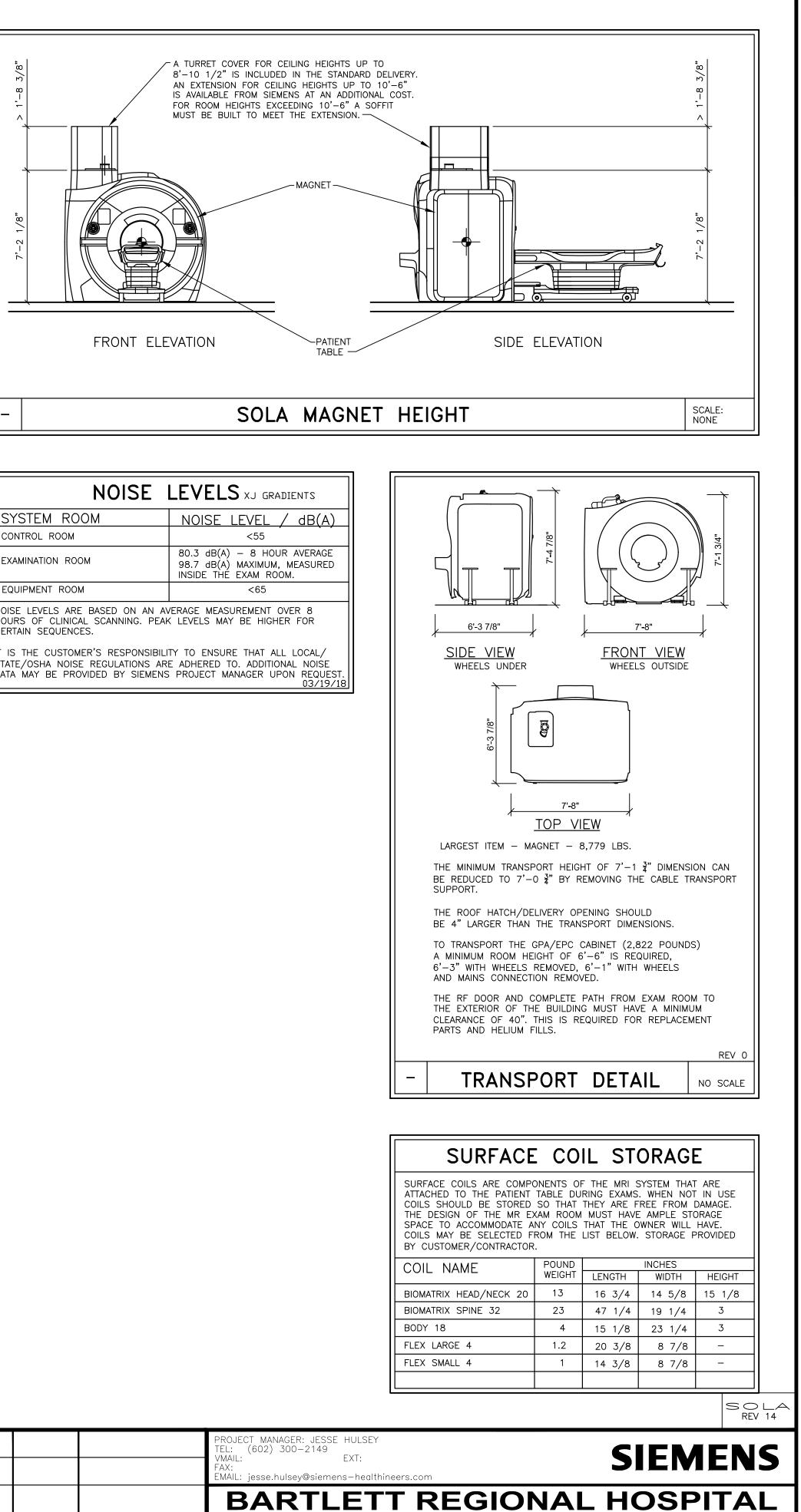
RESOURCE LIST	(SMS USE ONL	Y)
DESIGNATION	PG NUMBER	DATE
PLANNING GUIDE	M11-010.891.01.03.02	11.19

SOLA

							REV 14
		TEL: (602) 300 [.] VMAIL: FAX:	R: JESSE HULSEY -2149 EXT: y@siemens-healthin	neers.com		SIEM	ENS
		BAR	326	60 HOSPITAL DR, JUI	ONAL I NEAU, AK 99801-78 NETOM SOLA XJ GRAE	808	TAL
04/04/22	REMOVED SMS SUPPLIED CHILLER USING FACILTY CHILLED WATER	THIS TITLE B	LOCK WITHOUT	PROJECT #:		SHEET:	
03/09/21	2100552RA DATED 02/08/21 APPROVED BY CUSTOMER FOR FINALS	RESULT IN PROS	ORIZATION WILL SECUTION UNDER OF THE LAW.	2100	0552	Λ 1	1
DATE	DESCRIPTION			SHEET OF 1 10	DRAWN BY: D. BRISTOE		
-ISSU	E BLOCK-	SCALE: AS NOTED	REF. #: 30257551	DATE: 03/09/21			

REV





3260 HOSPITAL DR, JUNEAU, AK 99801-7808 MRI SUITE – MRI – MAGNETOM SOLA XJ GRADIENTS

2100552

DRAWN BY:

D. BRISTOE

HEET:

PROJECT #:

OF

2 10

03/09/21

HEET

DATE:

HE USE OR REPRODUCTION OF

THIS TITLE BLOCK WITHOUT

SIEMENS AUTHORIZATION WILL

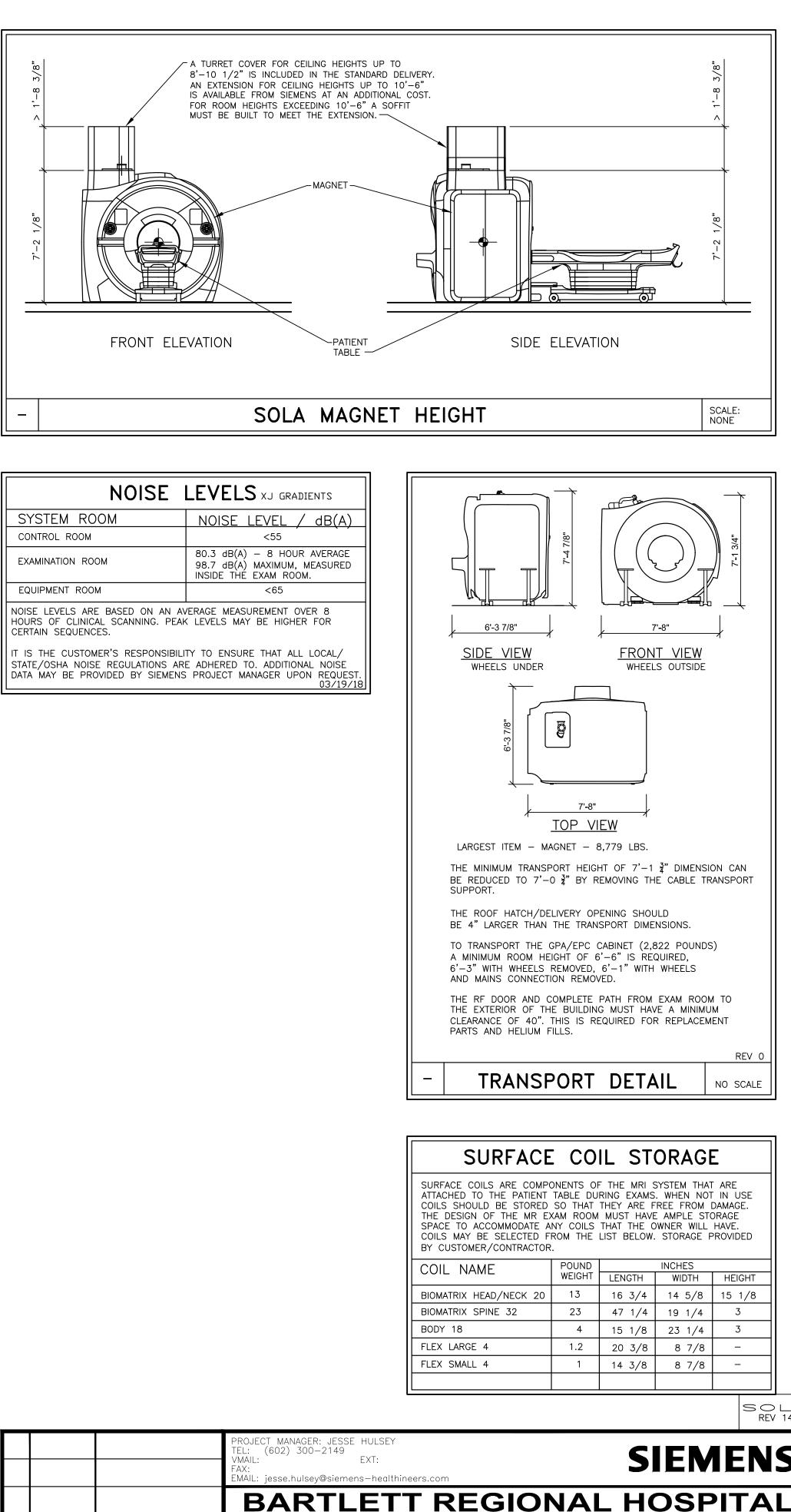
RESULT IN PROSECUTION UNDER

FULL EXTENT OF THE LAW.

ALL RIGHTS ARE RESERVED.

SCALE: AS NOTED

REF. #: 30257551



CEILING HEIGHTS

EXAM ROOM 7'-11" MINIMUM CONTROL ROOM 6'-11 MINIMUM EQUIPMENT ROOM 7'-3'' MINIMUM

DATE

REMOVED SMS SUPPLIED CHILL

USING FACILTY CHILLED WATER

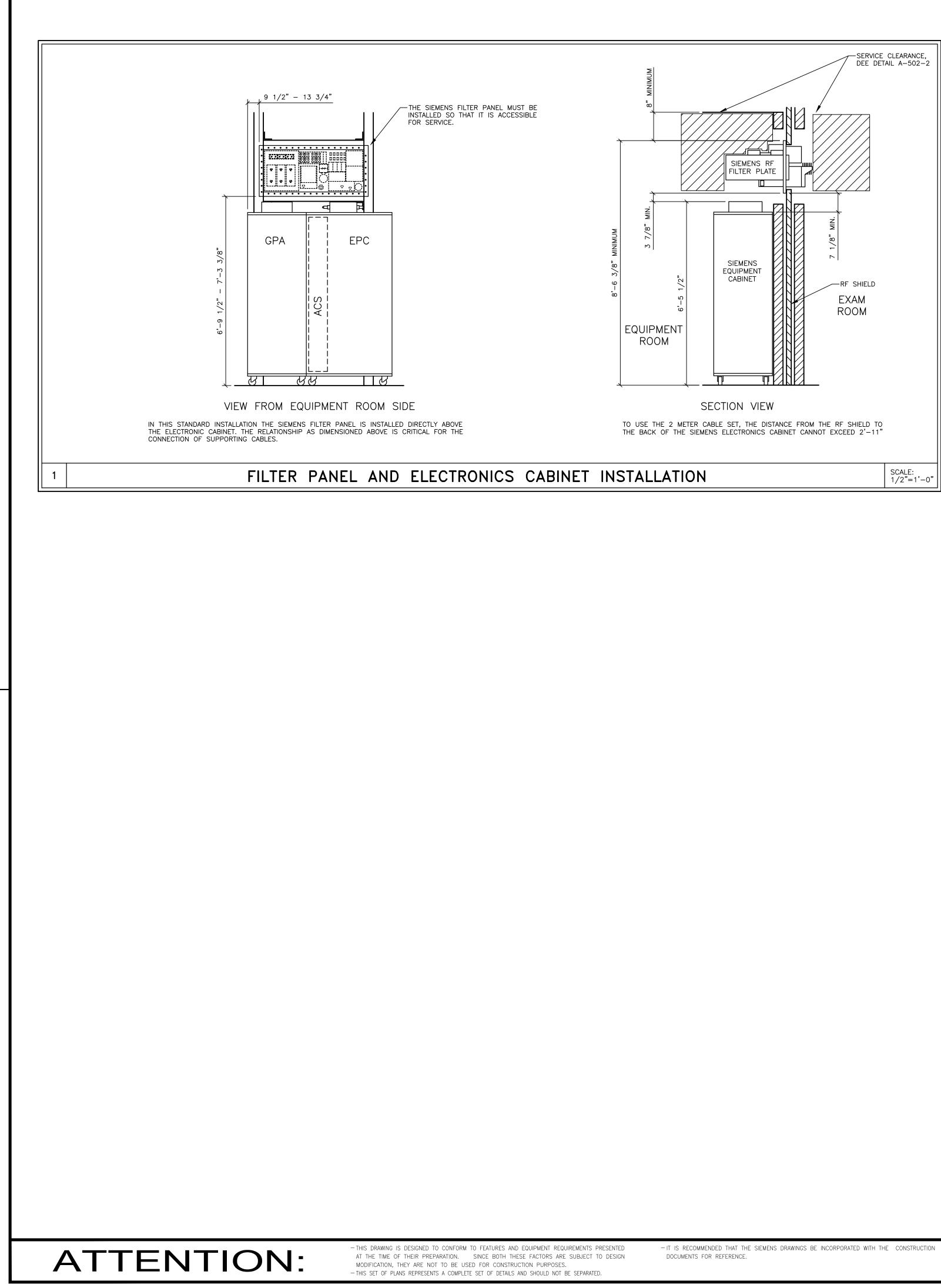
2100552RA DATED 02/08/2

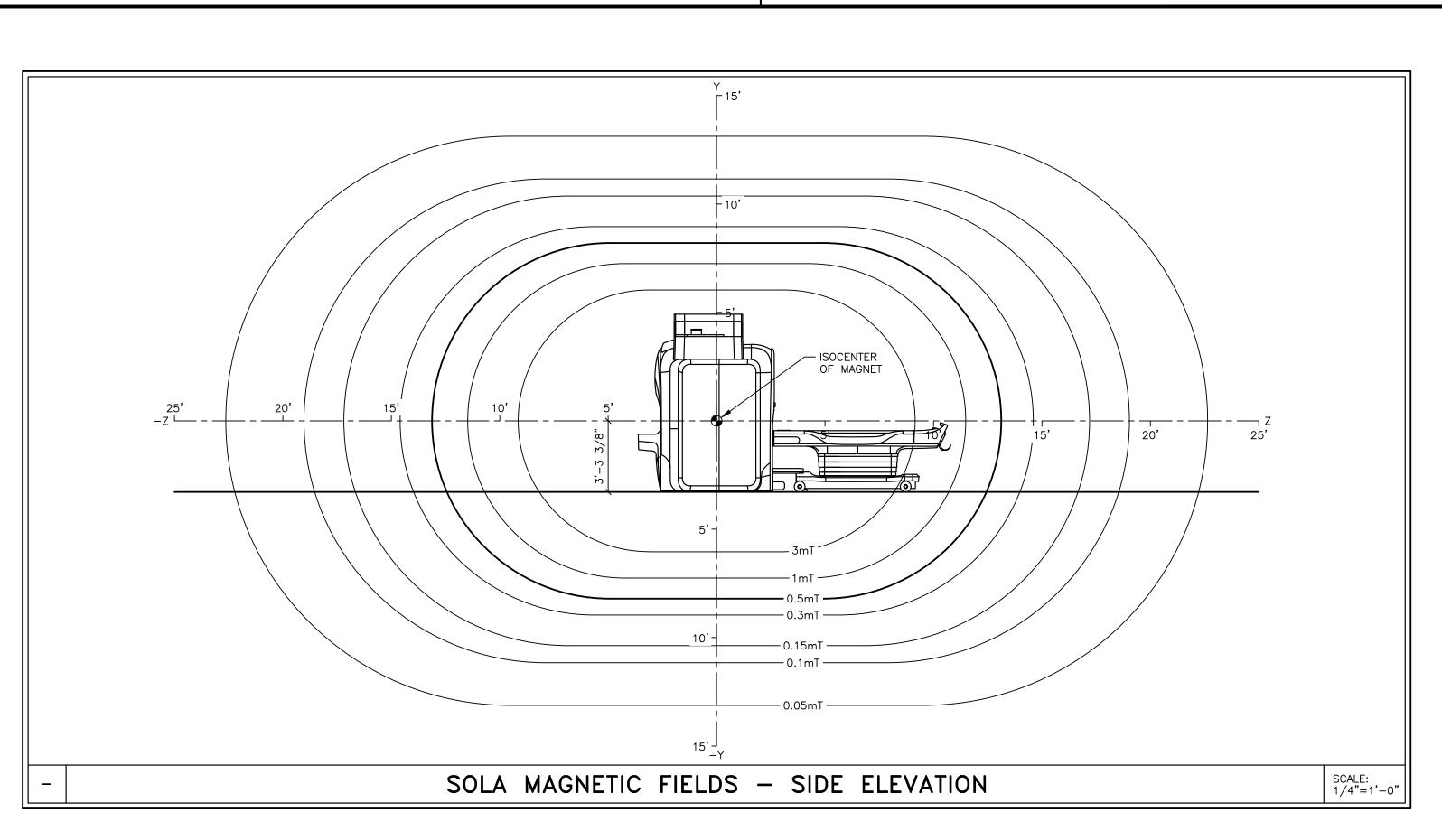
APPROVED BY CUSTOMER FOR FINALS

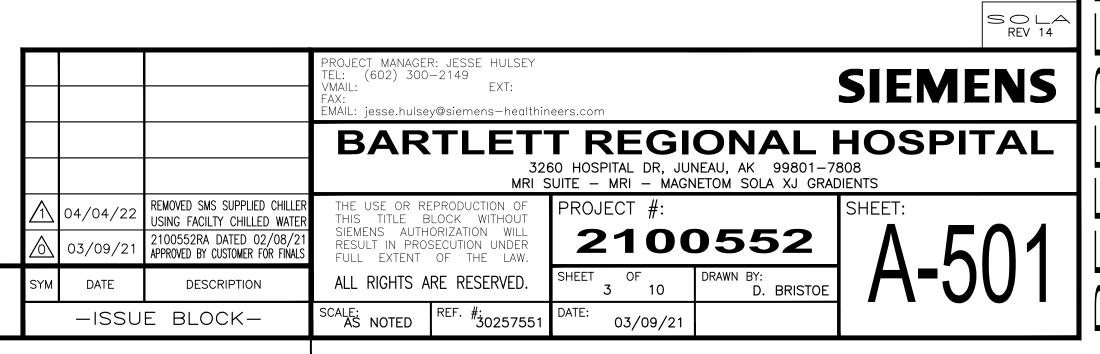
DESCRIPTION

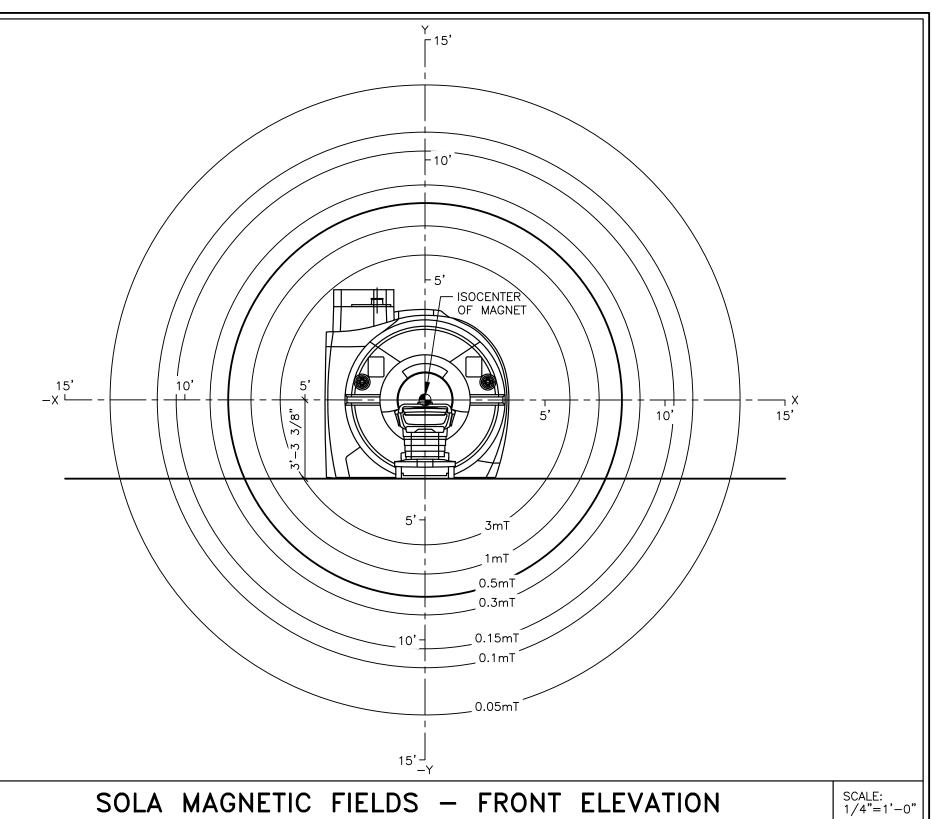
- IT IS RECOMMENDED THAT THE SIEMENS DRAWINGS BE INCORPORATED WITH THE CONSTRUCTION

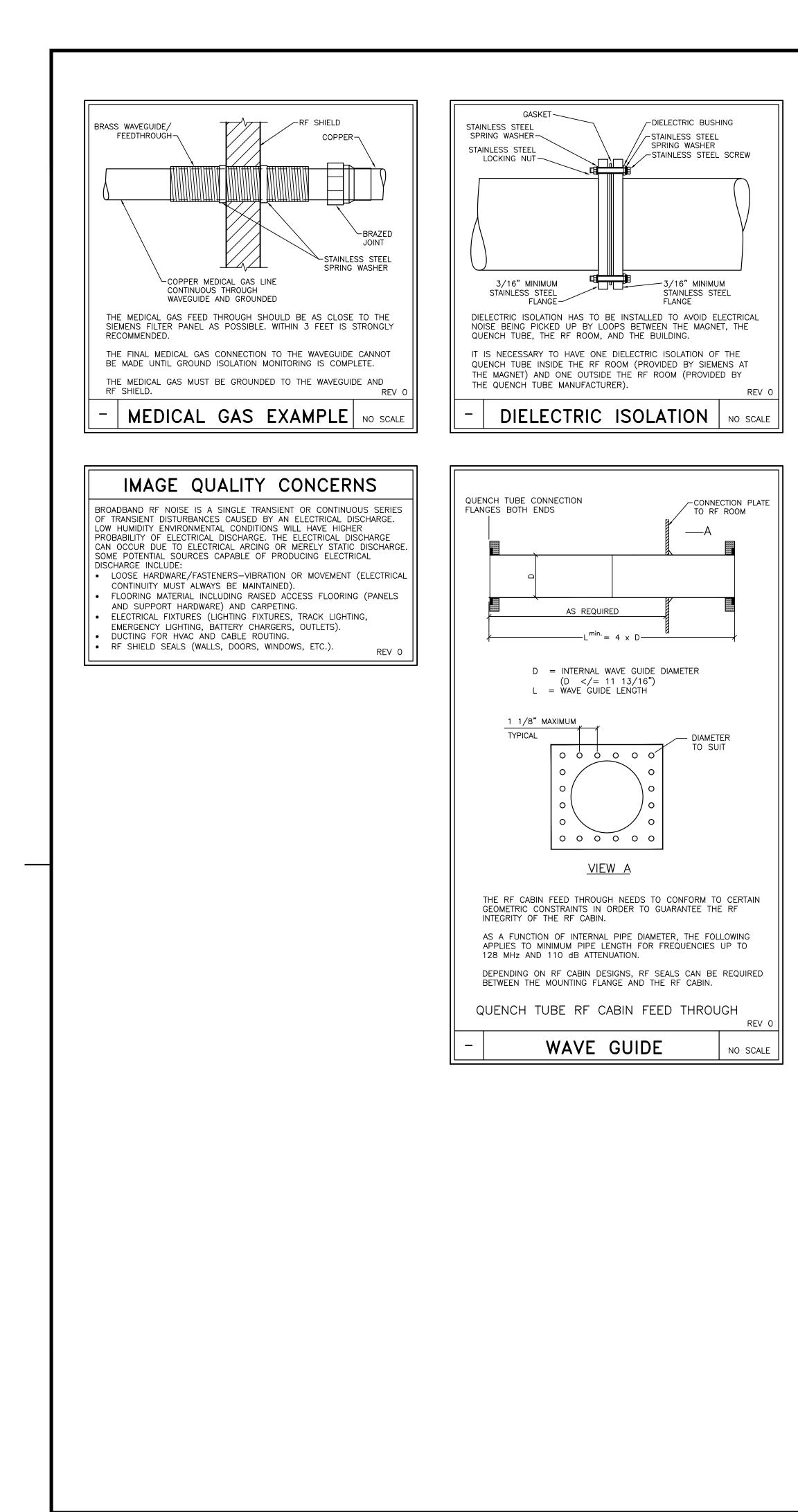
- ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES. - THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.













- THIS DRAWING IS DESIGNED TO CONFORM TO FEATURES AND EQUIPMENT REQUIREMENTS PRESENTED AT THE TIME OF THEIR PREPARATION. SINCE BOTH THESE FACTORS ARE SUBJECT TO DESIGN MODIFICATION, THEY ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES. - THIS SET OF PLANS REPRESENTS A COMPLETE SET OF DETAILS AND SHOULD NOT BE SEPARATED.

RF DOOR OPENING

IN THE EVENT OF A CATASTROPHIC FAILURE OF THE QUENCH VENT DURING A QUENCH, PRESSURE BUILT UP MAY PREVENT OPENING A DOOR THAT OPENS INTO THE RF ROOM, PREVENTING EVACUATION FROM LIFE THREATENING CONDITIONS.

FOR THIS REASON THE RF DOOR SHOULD OPEN TO THE OUTSIDE OF THE RF ROOM. IF THE DOOR CANNOT OPEN OUT FROM THE RF ROOM, OTHER APPROPRIATE MEANS HAVE TO BE PROVIDED SO THAT THE RF ROOM DOOR IS NOT PREVENTED FROM OPENING DUE TO PRESSURE.

IF THE DOOR OPENS INTO THE RF ROOM, A 24"x24" OPENING FOR PRESSURE EQUALIZATION INTO THE RF ROOM MUST BE INSTALLED. THIS IS MANDATORY. THIS IS NOT AN ESCAPE HATCH. THE PURPOSE OF THE OPENING IS TO RELIEVE PRESSURE AND ALLOW THE MAIN DOOR TO BE OPENED SO THAT OCCUPANTS CAN BE EVACUATED.

THE OPENINGS WILL HAVE PANELS INSTALLED IN THE RF ROOM OR THE DOOR THAT CAN BE UNLOCKED AND OPENED TO THE OUTSIDE IN CASE OF EMERGENCY. THESE PANELS REQUIRE AN RF SEALED INSTALLATION. AFTER OPENING THE PANEL, THE OUTLET SHOULD MEASURE AT LEAST 24"x24". WHEN USING RECTANGULAR PANELS, THE SHORTER SIDE SHOULD MEASURE OF MINIMUM OF 24".

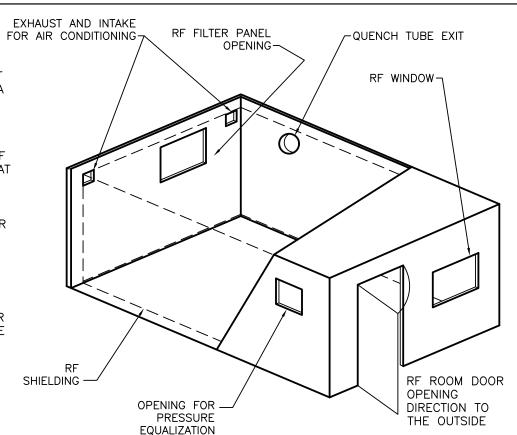
TO ENSURE UNOBSTRUCTED VENTING, THIS OPENING CANNOT BE SUBDIVIDED. THIS MEANS THAT, FOR EXAMPLE, RF SEALED HONEYCOMB GRIDS ARE NOT PERMITTED.

EASY REMOVAL OF THE PANEL BY A PERSON HAS TO BE ENSURED AND A MINIMUM DISTANCE OF 40" TO A FIXED OBJECT MUST BE MAINTAINED. THE PANEL SHOULD BE INSTALLED IN AN ACCESSIBLE LOCATION AND ALLOW ESCAPE OF THE LOW DENSITY HELIUM.

AS AN ALTERNATIVE TO AN OUT SWING DOOR, THE STATIONARY OBSERVATION WINDOW IS REPLACED BY A WINDOW OPENING INTO THE CONTROL AREA OR THE DOOR IS REPLACED WITH AN RF SEALED SLIDING DOOR. IT SHOULD BE ENSURED THAT THE DOOR CLOSES IN A WAY THAT ALLOWS IT TO MOVE AWAY FROM THE FRAME IN CASE OF OVERPRESSURE.

IF THE DOOR OPENS TO THE OUTSIDE, THE OPENING IN THE RF ROOM IS STILL RECOMMENDED.

THE RF ROOM MANUFACTURER CAN PROVIDE YOU WITH ADDITIONAL RF SEALED ROOM OPENINGS THAT LEAD DIRECTLY TO THE OUTSIDE. HOWEVER, THESE OPENINGS ARE ALSO CONDUITS FOR NOISE GENERATED OUTSIDE THE RF ROOM. UNOBSTRUCTED FLOW THROUGH THIS PIPE MUST BE GUARANTEED.



SAFETY ASPECTS FOR THE RF ROOM:

IT MUST BE POSSIBLE TO LOCK THE RF ROOM (EXAMINATION ROOM) DOOR FROM THE OUTSIDE. IT MUST ALSO BE POSSIBLE TO OPEN THE DOOR FROM THE INSIDE WITHOUT A KEY OR ADDITIONAL DEVICE.

THE RF DOOR IS AN IMPORTANT COMPONENT FOR GOOD IMAGE QUALITY AS WELL AS SAFETY, THE OWNER/OPERATOR OF THE MR SYSTEM MUST MAINTAIN THE RF ROOM AS INSTRUCTED BY THE RF ROOM MANUFACTURER IN ORDER TO GUARANTEE CORRECT FUNCTION OF THE RF DOOR.

NO FERROMAGNETIC ITEMS CAN BE BROUGHT INTO THE RF ROOM AFTER THE MAGNET HAS BEEN RAMPED UP TO FIELD. MAGNETIC ITEMS WILL BECOME ATTRACTED TO THE MAGNET WITH NO WARNING AND DUE TO THE HIGH MAGNETIC FIELD, WILL BECOME MISSILES.

NOTE: FOR DOORS MOVED BY AN AUXILIARY DRIVES (ELECTRICAL OR PNEUMATIC), MANUAL OPERATION HAS TO BE ENSURED. AN OUTSIDE WINDOW SHOULD BE IN THE VICINITY TO ALLOW VENTING EXHAUSTED GAS TO THE OUTSIDE. THE INTEGRITY OF THE RF SHIELD MUST BE TESTED AFTER REMODELING.

> REV 0 SCALE: NONE

RF SHIELDING

1) THE EXAMINATION AREA MUST BE SHIFLDED TO PROVIDE A REDUCTION OF RADIO FREQUENCY WAVES EMANATING FROM EXTERNAL TRANSMITTERS. THE REQUIRED ATTENUATION IS 90dB IN THE FREQUENCY RANGE OF 15-128 MHz. IF CO-SITING TWO SYSTEMS EACH ROOM SHOULD BE 100 dB.

2) THE RF SHIELD MUST BE TESTED BEFORE AND AFTER MAGNET PLACEMENT IN THE RF ROOM AND AFTER THE SIEMENS RF FILTER. PANEL IS INSTALLED. THE RF-SHIELDING MUST BE INSULATED FROM ALL GROUNDS SUCH THAT THE ONLY GROUND IS THE SINGLE POINT GROUND ON THE OUTSIDE OF THE RF-ROOM WALL. RESISTANCE \geq 100 OHMS.

3) ALL ELECTRICAL LINES INTO THE RF ROOM MUST BE ROUTED THROUGH RF FILTERS (PROVIDED BY RF SHIELDING SUPPLIER). ALL ELECTRICALLY NON-CONDUCTIVE SUPPLY LINES (E.G. FIBER OPTIC CABLES, OR HOSES) INTO THE RF ROOM MUST BE ROUTED THROUGH RF SEALED WAVE GUIDES (PROVIDED BY RF SHIELDING SUPPLIER).

4) FOR PRESSURE EQUALIZATION PURPOSES THE RF DOOR SHOULD OPEN TO THE OUTSIDE OF THE RF ROOM. AS AN ALTERNATIVE A 24"X24" OPENING IN THE RF ROOM FOR PRESSURE EQUALIZATION IS REQUIRED. REV 1

EXAM ROOM INTERIOR NOTES

1) ONLY NON-MAGNETIC MATERIALS ARE TO BE USED AND INSTALLED N THE RF ROOM. SEE CONSTRUCTION REQUIREMENTS.

2) A SUSPENDED CEILING MUST BE STATICALLY SUSPENDED, NOT SUSPENDED WITH MOVABLE CLAMPS, SPRINGS, ETC.

3) RODS IN SUSPENDED CEILINGS MUST BE INSTALLED SECURELY. GALVANIC CONTENT BETWEEN THE RODS MUST BE GUARANTEED, THEY MUST NOT JUST LIE ON TOP OF ONE ANOTHER. A WIRE JUMPER BETWEEN RODS MAY BE USEFUL.

4) ELECTRICAL WIRING, FOR AMBIENT LIGHTS FOR EXAMPLE, MUST NOT SIMPLY REST ON THE SUSPENDED CEILING, THEY MUST BE FASTENED OR INSIDE A CONDUIT TO PREVENT MOTION.

REV 1

SAFETY INFORMATION - PRESSURE EQUALIZATION

SHIELDING GENERAL NOTES

1) SIEMENS REQUESTS THAT THE SHIELDING MANUFACTURER(S) SUBMIT FINAL SHOP DRAWINGS TO SIEMENS FOR REVIEW PRIOR TO THEIR INCLUSION IN CONSTRUCTION DOCUMENTS. SIEMENS SHALL BE COPIED ON ALL FIELD ORDER CHANGES CONCERNING CHANGES IN RF AND MAGNETIC SHIELDING CONDITIONS, CONFIGURATION AND SPECIFICATION. THE RF AND MAGNETIC SHIELDING CONTRACTOR(S) SHALL FURNISH "AS BUILT" SCALED AND DIMENSIONED PLANS REFLECTING ANY AND ALL FIELD ORDER CHANGES PRIOR TO THE COMPLETION OF THE CONSTRUCTION DOCUMENTS.

2) ALL CHANGES TO SIEMENS RECOMMENDED OPENINGS AND PÉNETRATIONS SHALL BE APPROVED BY THE SIEMENS PROJECT MANAGER PRIOR TO THE COMPLETION OF THE CONSTRUCTION DOCUMENTS.

3) THE SIZE, LOCATION, AND DIMENSIONS OF ANY MAGNETIC SHIELDING REQUIRED HAS BEEN DETERMINED BY SIEMENS. THIS INFORMATION HAS BEEN SUPPLIED TO THE MAGNETIC SHIELDING FABRICATOR TO DESIGN THE STRUCTURAL SUPPORT SYSTEM REQUIRED FOR THE MAGNETIC SHIELDING MATERIAL.

FILTER PLATE GENERAL NOTES

1) STRUCTURAL SUPPORT AND INTEGRATION OF THE SIEMENS SUPPLIED AND INSTALLED FILTER PLATE WITH MAGNETIC AND RF SHIELDING SHALL BE SPECIFIED, DETAILED AND NOTED BY THE RF AND MAGNETIC SHIELDING MANUFACTURER(S) WITH OVERALL COORDINATION WITH SIEMENS SITE SPECIFIC RECOMMENDATIONS TO BE THE RESPONSIBILITY OF THE ARCHITECT OF RECORD.

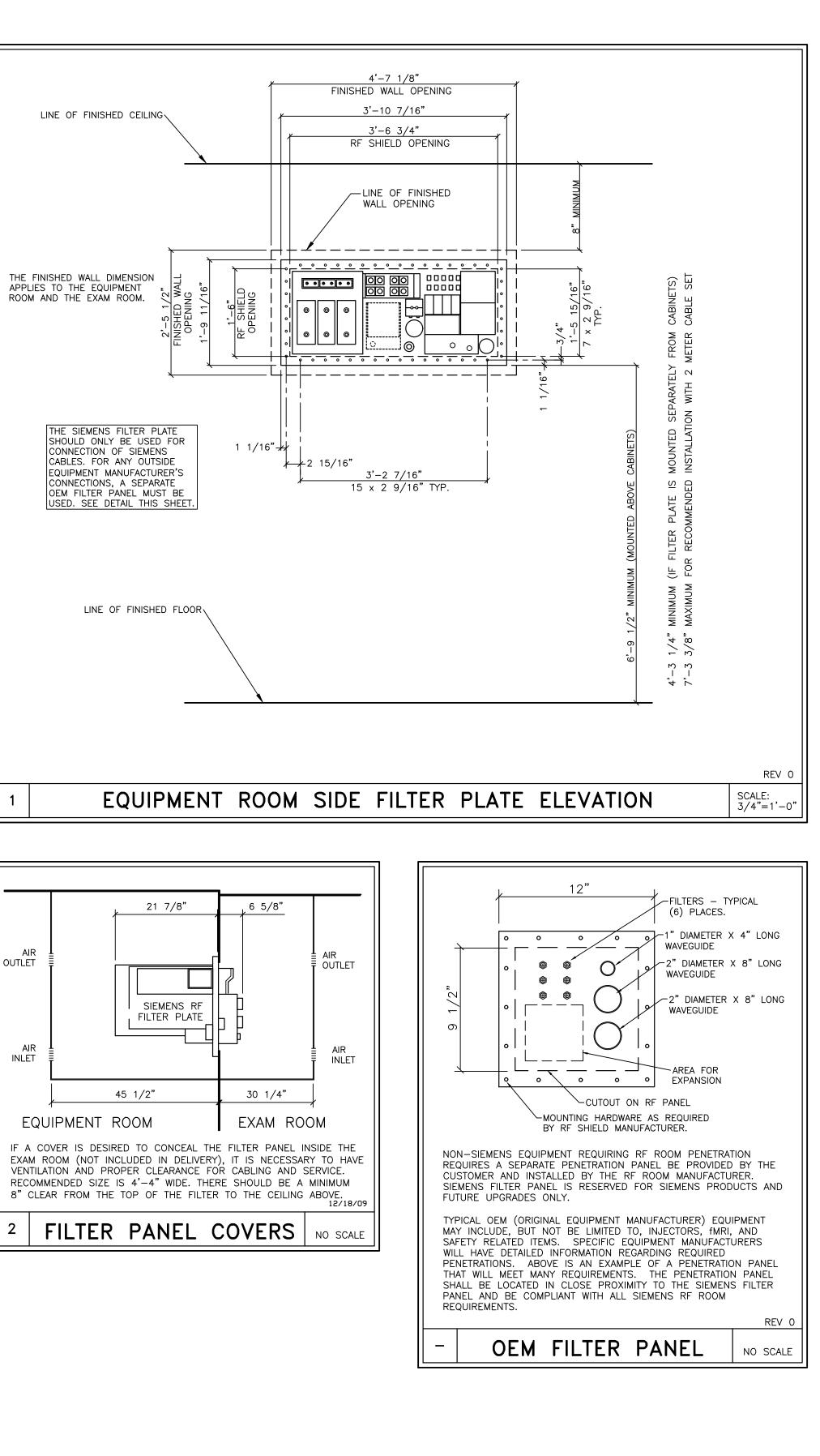
2) THE FILTER PLATE FRAME, RF FILTER PLATE BLANK, RF GASKET AND MOUNTING HARDWARE FOR THE PURPOSES OF TESTING THE INTEGRITY OF THE RF ENCLOSURE PRIOR TO THE INSTALLATION OF THE SIEMENS SUPPLIED AND INSTALLED RF FILTER PLATE SHALL BE PROVIDED AND INSTALLED BY THE SHIELDING CONTRACTOR(S) UNLESS SPECIFIED OTHERWISE.

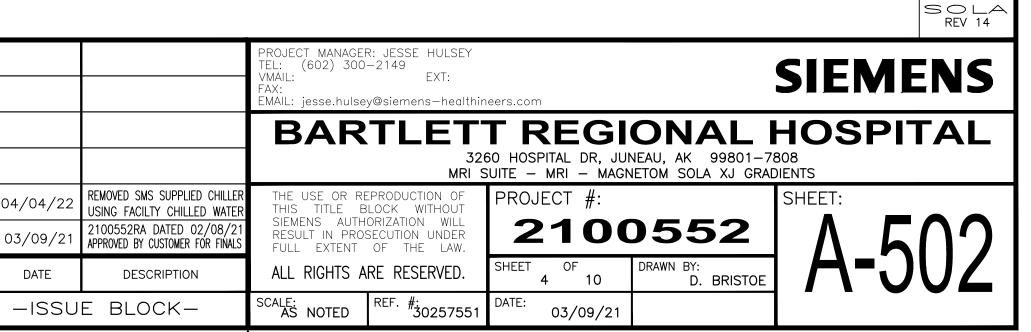
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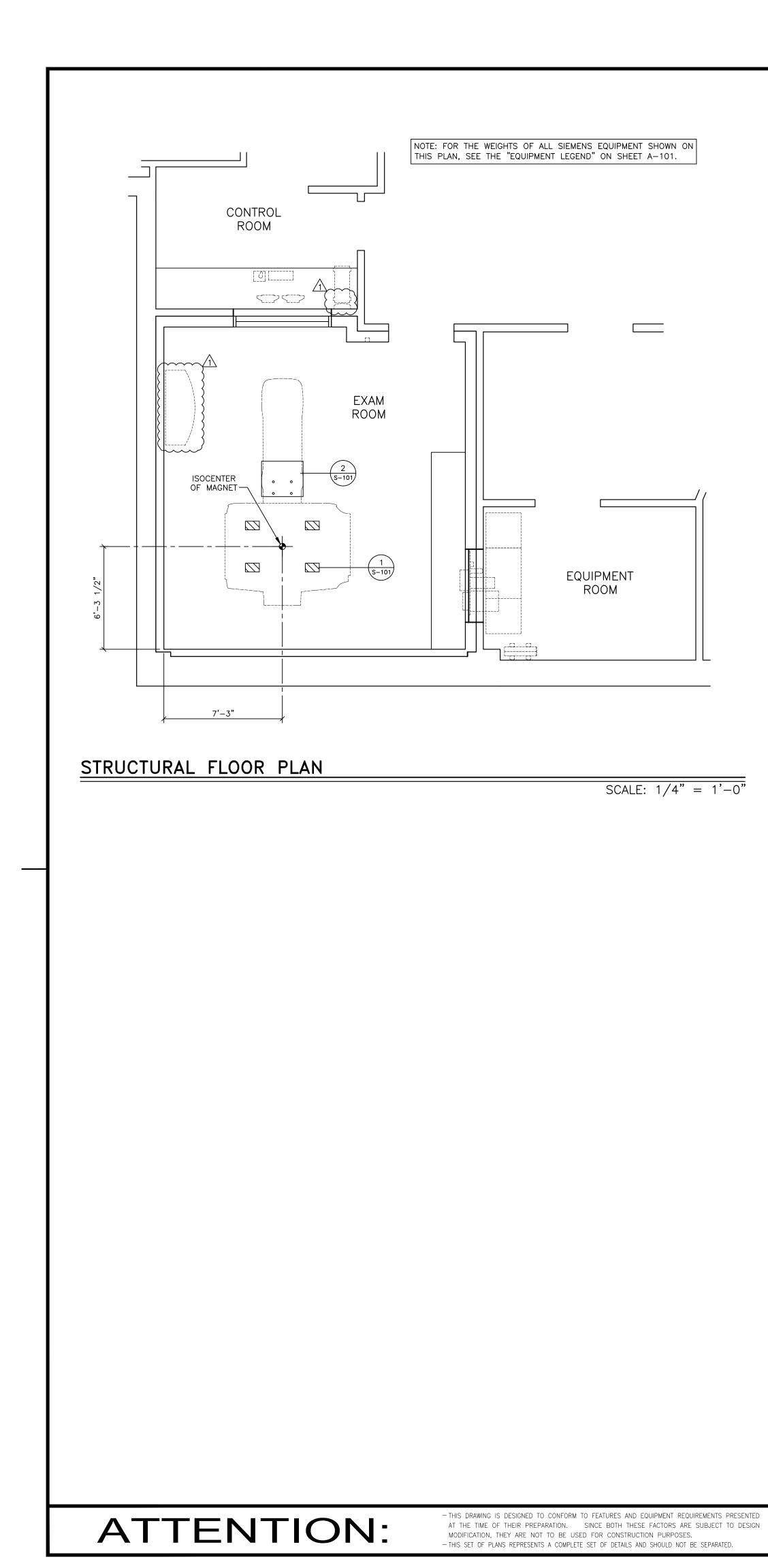
- ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES. - THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

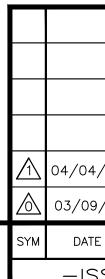
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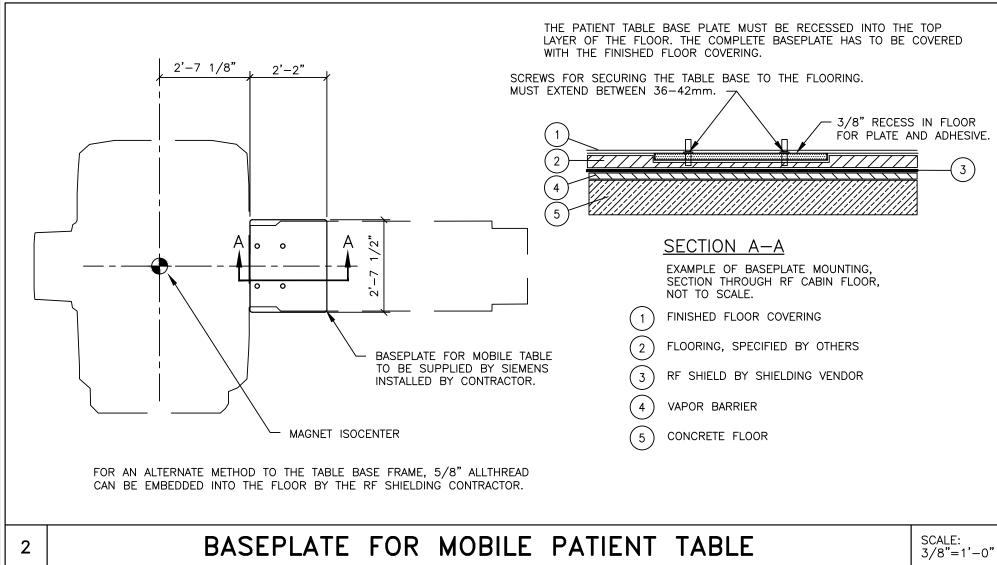


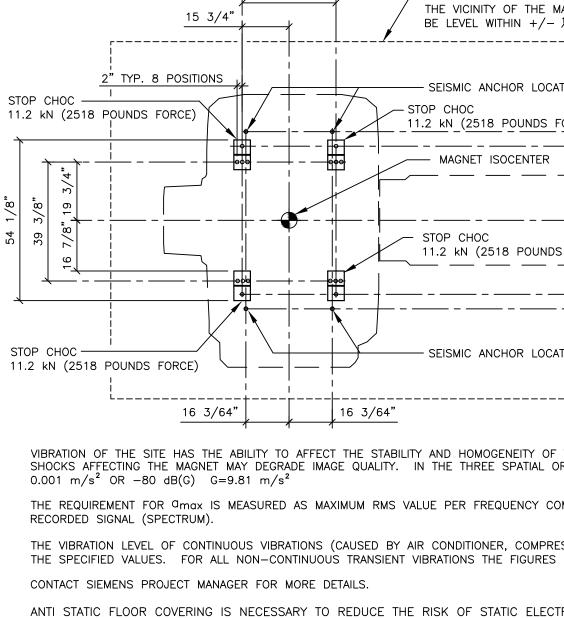




EQUIPMENT ROOM 7'-3'' MINIMUM

CEILING HEIGHTS





AND COMPONENTS.

32 3/32"

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SOLA REV 14

32" 9'-11" x 18'-5" AREA OF FLOOR IN THE VICINITY OF THE MAGNET SHALL BE LEVEL WITHIN +/- χ_6 "	ACCORDING TO OUR EXPERIEN THE MASS OF THE FLOOR SHO BE 123 POUNDS/SQUARE FOO (CORRESPONDING TO A THICK)	DULD DT NESS
SEISMIC ANCHOR LOCATIONS STOP CHOC 11.2 kN (2518 POUNDS FORCE)	OF 8" MINIMUM) TO ACHIEVE (VIBRATION AND STRUCTURE-B(NOISE SOUND ISOLATION. THI: A RECOMMENDATION.	ORNE
MAGNET ISOCENTER	30 3/4"	
STOP CHOC 11.2 kN (2518 POUNDS FORCE)	30 3/4"	
SEISMIC ANCHOR LOCATIONS		
AFFECT THE STABILITY AND HOMOGENEITY OF THE MAGNETIC FIELD. THEREFOR I MAGE QUALITY. IN THE THREE SPATIAL ORIENTATIONS THE BUILDING MUST		
S MAXIMUM RMS VALUE PER FREQUENCY COMPONENT <0.5Hz IN THE FOURIE		
ONS (CAUSED BY AIR CONDITIONER, COMPRESSOR, ETC.) AT THE LOCATION O NUOUS TRANSIENT VIBRATIONS THE FIGURES SHOULD BE MULTIPLIED BY 4 (C RE DETAILS. Y TO REDUCE THE RISK OF STATIC ELECTRIC DISCHARGES THAT MAY DAI	OR 12 dB).	D
MAGNET BASE DETAIL	SCALE: 3/8"=	1'-0"

STRUCTURAL NOTES

1) THE CUSTOMER/CONTRACTOR SHALL FURNISH AND INSTALL ALL STRUCTURAL SUPPORT MEMBERS AND NEEDED HARDWARE FOR THE INSTALLATION OF THE SIEMENS EQUIPMENT.

2) THE OVERHEAD STRUCTURAL SUPPORT SYSTEM SHALL BE FIXED, RÍGID AND BRACED FOR SWAY.

3) ALL STRUCTURAL SUPPORT MEMBERS SHALL BE TRUE, SQUARE, LEVEL, PARALLEL AND COPLANAR WITH RESPECT TO EACH OTHER, WITH A HORIZONTAL STRUCTURAL SUPPORT MEMBER TO BE LOCATED AND SET WITH A TRANSIT.

4) ALL STRUCTURAL SUPPORT DETAILS SHOWN ARE SAMPLE DETAILS BASED UPON TYPICAL AND STANDARD BUILDING PRACTICES AND ARE NOT INTENDED AS ACTUAL CONSTRUCTION DETAILS. ALL CONSTRUCTION DETAILS AND SUPPORT CALCULATIONS SHALL BE PREPARED BY A PROFESSIONAL STRUCTURAL ENGINEER AT THE CUSTOMER'S EXPENSE. IN THE EVENT AN EXISTING SUPPORT SYSTEM IS TO BE USED, IT WILL BE THE CUSTOMER'S RESPONSIBILITY TO VERIFY THE INTEGRITY OF THAT SYSTEM.

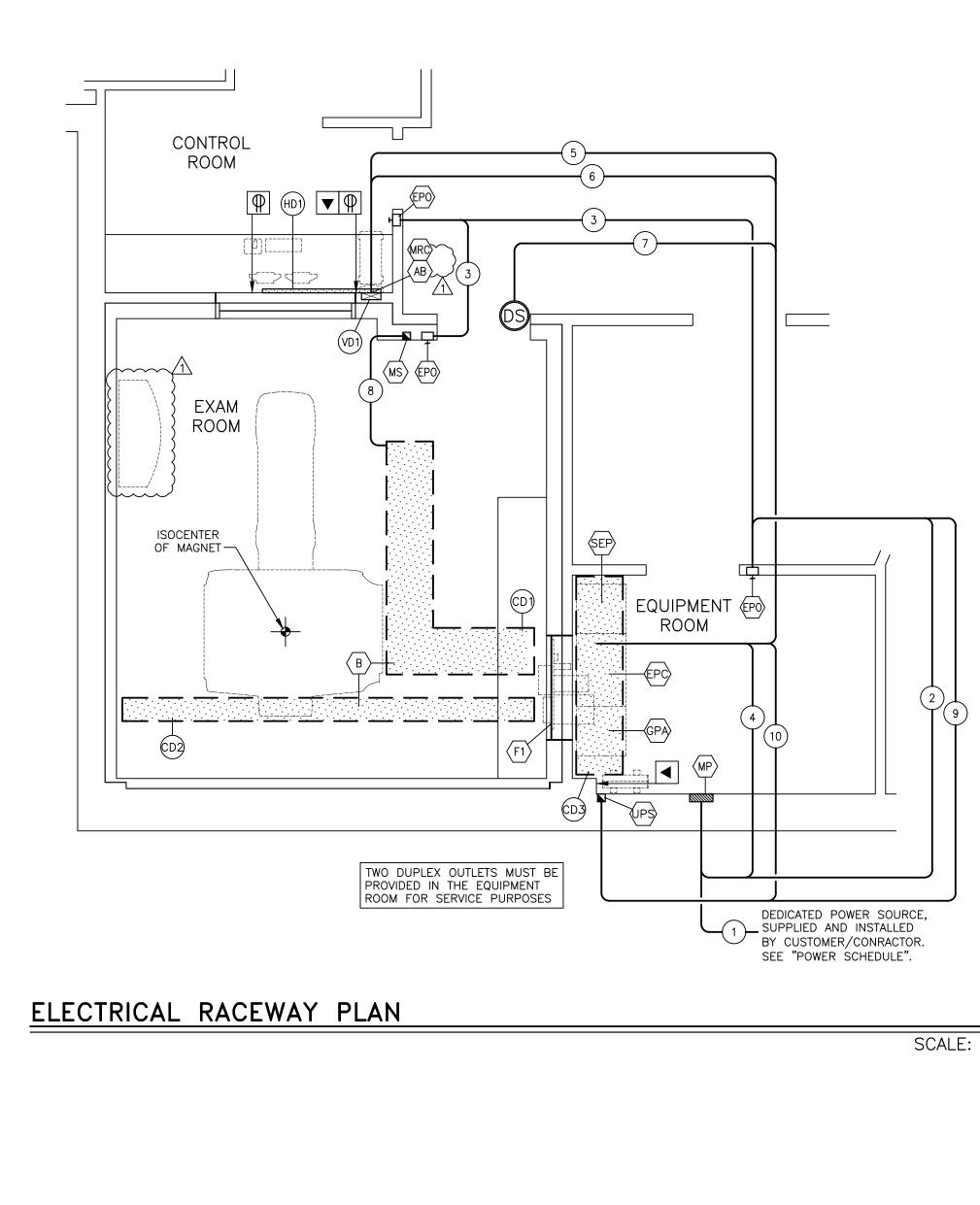
5) MOUNTING PLATES, FRAMES, AND HARDWARE SUPPLIED BY SIEMENS AS DETAILED IN THIS DRAWING SET ARE INSTALLED BY SIEMENS UNLESS OTHERWISE REQUIRED. ANY DEVIATION FROM THE PROVIDED MATERIALS OR MOUNTING METHODS MUST BE DESIGNED AND DOCUMENTED BY THE STRUCTURAL ENGINEER OF RECORD. ALTERNATE MOUNTING MATERIALS (I.E. ANCHORS, THREADED ROD, BACKING PLATES, ETC.) MUST BE SUPPLIED BY THE CUSTOMER/CONTRACTOR. SIEMENS MAY REQUIRE ASSISTANCE FROM THE CUSTOMER/CONTRACTOR WITH INSTALLATION WHEN UTILIZING ALTERNATE MOUNTING MATERIALS.

6) ALL CEILING FIXTURES (I.E. AIR SUPPLY GRILLES, AIR RETURN GRILLES, EXHAUST GRILLES, SPRINKLER HEADS, INCANDESCENT AND FLUORESCENT LIGHT FIXTURES, INTERCOM SPEAKERS, MEDICAL GAS COLUMNS, ETC.) SHALL BE INSTALLED FLUSH MOUNTED WITH THE FINISHED CEILING TO PROVIDE FREE AND UNRESTRICTED TRAVEL OF THE SMS CEILING MOUNTED EQUIPMENT.

7) THE STRUCTURAL PLANNING AS SHOWN ON THE 1/4" STRUCTURAL PLAN HAS BEEN COORDINATED WITH THE EQUIPMENT LOCATION AS SHOWN ON THE 1/4" EQUIPMENT LAYOUT PLAN. FOR THIS REASON, ANY DEVIATIONS FROM THE STRUCTURAL PLANNING AS SHOWN MUST BE APPROVED BY SMS PLANNING DEPARTMENT.

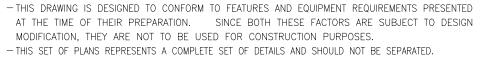
8) THE STRUCTURAL ENGINEER OF RECORD SHALL BE RESPONSIBLE FOR THE DESIGN AND DETAIL OF FLOOR, WALL AND CEILING STRUCTURES IN ACCORDANCE WITH THE WEIGHTS, MOMENTS AND FORCES AS SHOWN ON OUR STRUCTURAL CALCULATIONS, OR INFORMATION, IN CONSIDERATION OF FORCES AS DETERMINED PER LOCAL GOVERNING BUILDING CODES.

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		BAR	326	50 HOSF	PITAL DR, JUI	ONAL I NEAU, AK 99801-78 NETOM SOLA XJ GRAD		
04/04/22	REMOVED SMS SUPPLIED CHILLER USING FACILTY CHILLED WATER 2100552RA DATED 02/08/21	THIS TITLE B SIEMENS AUTH RESULT IN PROV	EPRODUCTION OF ILOCK WITHOUT ORIZATION WILL SECUTION UNDER		ECT #:)552	SHEET:	
DATE	APPROVED BY CUSTOMER FOR FINALS	FULL EXTENT	of the law. RE RESERVED.	SHEET	0F 5 10	DRAWN BY: D. BRISTOE	5-10	
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	SYMBOLS
	ALL MAY NOT APPLY
	CAUTION OR WARNING
i	CRITICAL NOTE(S)
EZZ	PANEL OR ENCLOSURE BY CUSTOMER/CONTRACTOR
	OPENING IN RACEWAY OR TRENCHDUCT
	PULLBOX IN (FLOOR/WALL/CEILING)
	OPENING IN ACCESS FLOORING
OS	RF DOOR SWITCH – MCMASTER-CARR SUPPLY ROLLER LIMIT SWITCH 7076k14 PROVIDED BY CONTRACTOR, AND MOUNTED AT TOP OF DOOR. COORDINATE WITH SIEMENS PROJECT MANAGER.
н	(EPO) EMERGENCY POWER OFF BUTTON
	CEILING DUCT
	SURFACE MOUNTED DUCT
\square	VERTICAL DUCT
	ETHERNET CONNECTION TO CUSTOMER'S INFORMATION SYSTEMS NETWORK IN AN ACCESSIBLE LOCATION (VERIFY WITH SIEMENS PROJECT MANAGER).
e	110 VOLT, 20 AMP, HOSPITAL GRADE DUPLEX OUTLET LOCATED NEAR THE ETHERNET CONNECTION. REV 2

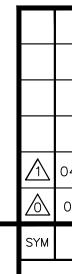
ATTENTION:



		ELECTRICAL LEGEND	
SYM	SIZE	DESCRIPTION SUPPLIED AND INSTALLED BY CUSTOMER/CONTRACTOR	REMARKS
ÆB	3 " ø	OPENING IN FACE OF VERTICAL DUCT 5'-0" ABOVE FINISHED FLOOR IN LOCATION TO BE COORDINATED WITH THE ARCHITECT.	ALARM BOX
(P)(P)(P)		LOCATION FOR CABLES TO DROP OUT OF BOTTOM OF RACEWAY.	ELECTRONICS CABINETS
B	AS REQUIRED	LOCATION FOR CABLES TO DROP OUT OF BOTTOM OF RACEWAY.	MAGNET CABLE ACCESS
₽		EMERGENCY POWER OFF BUTTONS, MOUNTED WITH CENTERLINE AT 5'-0" ABOVE FINISHED FLOOR. ALL PARTS ARE TO BE NONFERROUS INSIDE THE RF ROOM. EXACT LOCATIONS ARE TO BE VERIFIED WITH THE ARCHITECT OF RECORD.	SEE POWER SCHEDULE, SHEET E-102
(F1)		SIEMENS RF FILTER PANEL TO BE MOUNTED ON RF SHIELDED WALL	FILTER PANEL
₩P>		MAIN PANEL WITH MAIN BREAKER. EXACT LOCATION DETERMINED BY CUSTOMER/CONTRACTOR	SEE POWER SCHEDULE
(RC)	4" × 4"	OPENING IN FACE OF RACEWAY IN SHOWN LOCATION.	HOST COMPUTER
MS>	AS REQUIRED	NON-FERROUS SINGLE GANG BOX MOUNTED FLUSH WITH FINISHED WALL MOUNTED 6'-O" ABOVE FINISHED FLOOR. PROVIDE NEATLY FINISHED AND REMOVABLE COVER WITH CABLE EXIT. EXACT LOCATION TO BE COORDINATED WITH THE ARCHITECT.	MAGNET STOP
B		CONDUIT LANDING PLATE ON UPS PER MANUFACTURER'S INFORMATION.	EATON 93PM UPS
	* * * * * * * *	OMITTED	
K		OMITTED	
	24"x4"	ALUMINUM LADDER TRAY, MOUNTED AT HEIGHT COORDINATED WITH SIEMENS PROJECT MANAGER, IN THE EXAM ROOM, MAINTAINING 12" CLEARANCE ABOVE THE TRAY FOR ACCESS. CABLE LADDER IS REQUIRED TO SUPPORT INTERCONNECTING CABLES BETWEEN THE FILTER PANEL AND THE MAGNET. A 15" MINIMUM CLEARANCE IS REQUIRED BETWEEN THE LADDER TRAY AND THE RF FILTER PANEL (F1). WHEN ROUTING ALL RACEWAYS REFER TO DETAIL E-501/2 TAKING CARE SO THAT MAXIMUM CABLE LENGTHS ARE NOT EXCEEDED. A 12" SEPARATION BETWEEN CD1 AND CD2 MUST BE MAINTAINED. DO NOT LOCATE THIS CABLE TRAY ABOVE THE MAGNET.	
	12"x4"	ALUMINUM LADDER TRAY, MOUNTED AT HEIGHT COORDINATED WITH SIEMENS PROJECT MANAGER, IN THE EXAM ROOM, MAINTAINING 12" CLEARANCE ABOVE THE TRAY FOR ACCESS. CABLE LADDER IS REQUIRED TO SUPPORT INTERCONNECTING CABLES BETWEEN THE FILTER PANEL AND THE MAGNET. A 15" MINIMUM CLEARANCE IS REQUIRED BETWEEN THE LADDER TRAY AND THE RF FILTER PANEL (F1). WHEN ROUTING ALL RACEWAYS REFER TO DETAIL E-501/2 TAKING CARE SO THAT MAXIMUM CABLE LENGTHS ARE NOT EXCEEDED. A 12" SEPARATION BETWEEN CD2 AND CD1 MUST BE MAINTAINED. DO NOT LOCATE THIS CABLE TRAY ABOVE THE MAGNET.	
(03)	24"x4"	LADDER TRAY, MOUNTED AT HEIGHT COORDINATED WITH SIEMENS PROJECT MANAGER IN EQUIPMENT ROOM MAINTAINING 12" CLEARANCE ABOVE THE TRAY FOR ACCESS. CABLE LADDER IS REQUIRED TO SUPPORT INTERCONNECTING CABLES BETWEEN THE EQUIPMENT ROOM AND THE RF FILTER PANEL (F1). AN 18" MINIMUM CLEARANCE IS REQUIRED BETWEEN THE LADDER TRAY AND THE FILTER PANEL.	CABLE TRAY SEE DETAIL E–501/2
	4" × 2"	HORIZONTAL DUCT SURFACE MOUNTED ON WALL IN CONTROL AREA AT FLOOR LINE AS SHOWN, FINISHED TO MATCH WALLS.	
	10" x 3-1/2"	VERTICAL DUCT MOUNTED FLUSH WITH FINISHED WALL IN CONTROL AREA FROM ABOVE FINISHED CEILING TO FLOOR LINE PROVIDED WITH REMOVABLE FINISHED COVERS.	
(1)	AS PER NEC	CONDUIT FROM FACILITY POWER TO MAIN PANEL "MP"	SEE POWER SCHEDULE, SHEET E-102
2	AS PER NEC	CONDUIT FROM "MP" TO "EPO"	SEE POWER SCHEDULE, SHEET E-102
3	AS PER NEC	CONDUIT FROM "EPO" TO "EPO" TO BE NON-FERROUS WHEN INSIDE THE RF ROOM. CUSTOMER/CONTRACTOR IS TO PROVIDE RF FILTERS FOR ALL NON-SIEMENS WIRING.	SEE POWER SCHEDULE, SHEET E-102
4	(1) 2 " ø	CONDUIT FROM "MP" TO END AT "CD3" (EPC) VIA FLEX CONDUIT. THERE MUST BE A DIELECTRIC SEPARATION BETWEEN THE CONDUIT AND THE CONNECTION AT THE SIEMENS EPC CABINET.	SEE POWER SCHEDULE, SHEET E-102
5	(2) 2 1/2"ø	CONDUIT FROM "VD1" (MRC) TO "CD3" (EPC)	NOT TO EXCEED 60 FT.
6	(1) 1 1/2"ø	CONDUIT FROM "VD1" (AB) TO "CD3" (EPC)	NOT TO EXCEED 60 FT.
7	(1) 1/2 " ø	CONDUIT FROM "DS" TO "CD3" (EPC)	NOT TO EXCEED 60 FT.
8	(1) 3/4"ø	CONDUIT FROM "MS" TO "CD1" (WIRES TO MAGNET) TO BE NON-FERROUS WHEN INSIDE THE RF ROOM.	NOT TO EXCEED 20 FT.
9	(1) 3/4"ø	CONDUIT FROM "EPO" TO "UPS"	
10	(1) 2 " ø	CONDUIT FROM "UPS" TO "CD3" (EPC)	MAXIMUM LENGTH 29 FEE
	*******	OMITTED	
(12)		OMITTED	

FROM	VIA	ТО	DESCRIPTION	REMARKS
SOURCE	1	MP	(3) PHASE CONDUCTORS, (1) FULL SIZE EQUIPMENT GROUND WIRE TO BE SIZED BY ELECTRICAL CONTRACTOR/ENGINEER.	
MP	2	EPO	DETERMINED BY ELECTRICAL CONTRACTOR.	
EPO	3	EPO	DETERMINED BY ELECTRICAL CONTRACTOR.	
MP	4	EPC	(3) 2/0 AND (1) 2/0 EQUIPMENT GROUND. TO REDUCE EMI (INTERFERENCE) THE POWER CABLES MUST BE SHIELDED. THIS CAN BE ACHIEVED BY USING EMT, WHICH IS CONSIDERED A SHIELDING DEVICE. IF CABLES ARE RUN IN FREE AIR SHIELDED CONDUCTORS MUST BE USED.	LANDED BY ELECTRICAL CONTRACTOR
EPO	9	UPS	DETERMINED BY ELECTRICAL CONTRACTOR.	6 FOOT TAILS
SOURCE		WCH	OMITTED	
WCH		WCS	OMITTED	

CEILING HEIGHTS	
EXAM ROOM 7'-11" MINIMUM CONTROL ROOM 6'-11 MINIMUM EQUIPMENT ROOM 7'-3" MINIMUM	



- IT IS RECOMMENDED THAT THE SIEMENS DRAWINGS BE INCORPORATED WITH THE CONSTRUCTION DOCUMENTS FOR REFERENCE.

- ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES. - THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

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

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ELECTRICAL NOTES

1) COMPLIANCE: ELECTRICAL WORK SHALL BE IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE (NFPA-70), O.S.H.A. REGULATIONS, AS WELL AS APPLICABLE REGULATIONS OF CITY, COUNTY, STATE AND FEDERAL AGENCIES. PROVIDE MATERIALS AND EQUIPMENT THAT COMPLY TO ANSI, IEEE AND NEMA STANDARDS AND ARE U.L. LISTED AND LABELED. THE CUSTOMER'S/CONTRACTOR'S WORK AND ALL EQUIPMENT INSTALLED SHALL COMPLY WITH THE CURRENT EDITION OF NATIONAL ELECTRICAL CODE ADOPTED/ENFORCED BY THE AUTHORITY HAVING JURISDICTION. 2) QUALITY ASSURANCE: THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD TO INSURE THAT THE NEW WORK WILL FIT INTO THE EXISTING STRUCTURE AS SHOWN ON THE DRAWINGS. SHOULD ANY CONDITIONS EXIST OR BE DISCOVERED THAT PREVENT THE INSTALLATION OF

WORK AS SHOWN, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO FABRICATION OF EQUIPMENT, OR THE PERFORMANCE OF ANY WORK THAT MAY BE AFFECTED. DO NOT ALTER DRAWINGS, DIMENSIONS, OR SPECIFICATIONS IN ANY WAY WITHOUT CONTACTING AND RECEIVING WRITTEN CONFIRMATION FROM SIEMENS PROJECT MANAGER. ALL DIMENSIONS ARE FROM FINISHED SURFACES. CONDUIT AND

PULL BOXES TO BE INSTALLED BY THE CUSTOMER/CONTRACTOR WITH LOCATIONS BEING FIELD VERIFIED BY SIEMENS PRÓJECT MANAGER. 3) POWER SUPPLY SOURCE: POWER SUPPLIES FOR SIEMENS HEALTHCARE EQUIPMENT SHALL BE FROM A MEDICAL IMAGING PANEL OR BUILDING SERVICE EQUIPMENT THAT IS A GROUNDED 3 OR 4-WIRE 'WYE' SOURCE PER THE SPECIFIC EQUIPMENT OPERATION REQUIREMENTS. A DEDICATED CIRCUIT SHALL BE PROVIDED THAT IS KEPT ENTIRELY FREE AND INDEPENDENT OF ALL OTHER BUILDING WIRING. NO ELEVATORS, GENERATORS, PUMPS, HVAC OR SIMILAR EQUIPMENT SHALL BE CONNECTED TO THE SAME CIRCUIT OR MEDICAL IMAGING PANEL THAT SERVES THE SIEMENS HEALTHCARE EQUIPMENT IF THE POWER SUPPLY SOURCE DOES NOT MEET THE SPECIFIC SIEMENS

EQUIPMENT POWER REQUIREMENTS, THE CONTRACTOR SHALL PROVIDE THE NECESSARY EQUIPMENT REQUIRED TO ESTABLISH THE POWER SUPPLY IN ACCORDANCE WITH THE REQUIRED POWER SUPPLY PARAMETERS OF THE SIEMENS EQUIPMENT. THE CONTRACTOR SHALL COORDINATE THIS WORK WITH THE CUSTOMER AND/OR UTILITY COMPANY FIELD REPRESENTATIVE. 4) WORK FURNISHED BY CUSTOMER/CONTRACTOR: WORK NOT PROVIDED BY SÍEMENS HEALTHCARE BUT SHOWN ON DRAWINGS TO BE FURNISHED AND INSTALLED BY CUSTOMER/CONTRACTOR INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING, UNLESS NOTED OTHERWISE: ELECTRICAL RACEWAYS AND DUCTS, WIRING TROUGHS, PULL BOXES, CONDUITS, CIRCUIT BREAKERS, ACCESS PANELS, EMERGENCY OFF BUTTONS, DOOR SWITCHES, WARNING LIGHTS, WIRING, WIRING DEVICES, CONNECTORS, LIGHTING EQUIPMENT AND GROUNDING.

5) RACEWAY AND CONDUIT NOTES: ALL ITEMS IN THE MAGNET ROOM SHALL BÉ NON-FERROUS. ALL CONDUITS SHALL BE INSTALLED IN COMPLIANCE WITH THE CURRENT ENFORCED EDITION OF THE NATIONAL ELECTRICAL CODE. CONDUIT BODIES SHALL NOT BE USED. WHERE A CONDUIT ENTERS A BOX, FITTING, OR OTHER ENCLOSURE, AN INSULATED THROAT CONNECTOR SHALL BE PROVIDED TO PROTECT THE WIRE FROM ABRASION. ALL CONNECTORS FOR EMT SHALL BE COMPRESSION OR DOUBLE SET SCREW TYPE.

KEEP RACEWAYS AT LEAST 6 INCHES AWAY FROM PARALLEL RUNS OF FLUES OR STEAM AND HOT WATER PIPES. INSTALL RACEWAY RUNS ABOVE WATER AND STEAM PIPES PROVIDED THAT CABLE RUN DISTANCES ARE MAINTAINED. USE TEMPORARY CLOSURES TO PREVENT FOREIGN MATTER FROM ENTERING RACEWAY.

CONDUIT RUNS ARE SHOWN SCHEMATICALLY. INSTALL CONDUIT WITH A MINIMUM OF BENDS IN THE SHORTEST PRACTICAL DISTANCE CONSIDERING THE BUILDING CONSTRUCTION AND OBSTRUCTIONS, EXCEPT AS OTHERWISE INDICATED. THE CONTRACTOR SHALL MAKE CERTAIN THAT ANY CONDUIT/RACEWAY RUNS CONTAINING SIEMENS HEALTHCARE CABLES DO NOT EXCEED THE SPECIFIED MAXIMUM DISTANCES AS SHOWN ON THE ELECTRICAL

DETAILS. LISTED CONDUIT SIZES FOR SIEMENS-SUPPLIED CABLES MUST BE MAINTAINED IN ORDER TO ENABLE THE TOTAL CABLE BUNDLE INCLUDING CONNECTORS TO BE PULLED THROUGH WITHOUT DAMAGE. PROVIDE ENCLOSED METAL WIRE DUCT RACEWAY SYSTEM WHERE SHOWN ON DRAWINGS WITH DIVIDERS TO SEPARATE THE DUCT INTO TWO OR THREE

SEPARATE COMPARTMENTS AS SHOWN ON THE SIEMENS PLANS (FOR POWER AND SIEMENS HEALTHCARE CABLING). DIVIDERS AND CROSSOVER PIECES TO BE PROVIDED AS NECESSARY. THE CABLE TO CABLE AS WELL AS THE CIRCUIT TO CIRCUIT SEPARATION REQUIREMENT WAS EVALUATED DURING THE UL SYSTEM CERTIFICATION OF THE EQUIPMENT. ADDITIONAL SEPARATION OF THE SYSTEM CABLE ASSEMBLIES INTO SEPARATE OR PARTITIONED RACEWAYS, UNLESS OTHERWISE NOTED, IS NOT NECESSARY TO INSURE SEPARATION OF CIRCUITS.

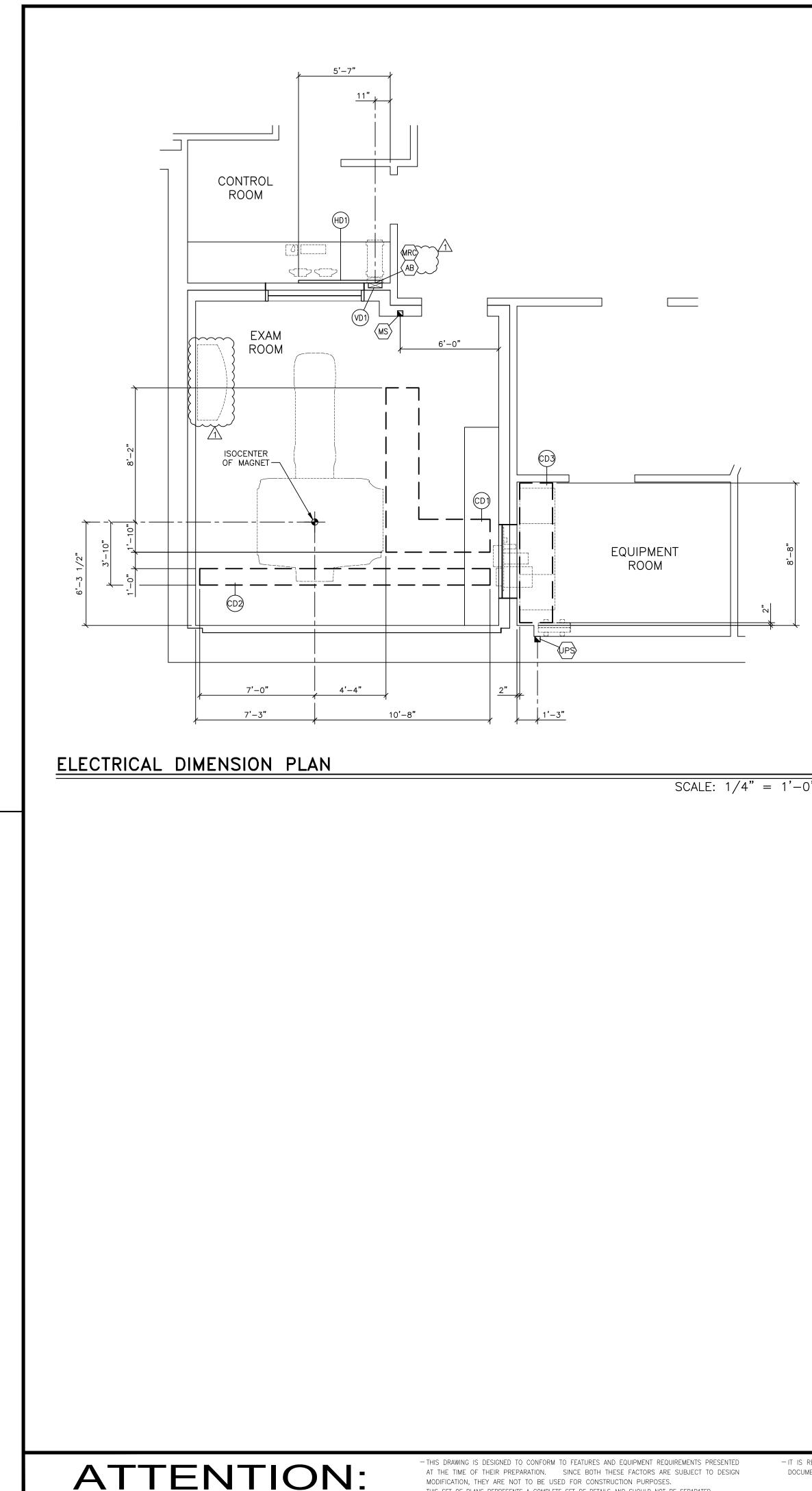
PROVIDE WIRE DUCT/RACEWAY WITH ACCESSIBLE REMOVABLE COVERS LOCATIONS OF BUILDING MATERIAL OPENINGS (I.E. ACCESS PANELS) TO BE CUT IN FIELD ARE TO BE COORDINATED WITH THE DRAWING REQUIREMENTS AND BUILDING STRUCTURE. THOSE THAT ARE NOT INDICATED OR INTERFERE WITH BUILDING ELEMENTS SHALL BE COORDINATED WITH SIEMENS PROJECT MANAGER. ELECTRICAL PULL BOXES AND RACEWAY COVERS SHALL BE INSTALLED IN A MANNER TO ALLOW ACCESSIBILITY FOR INSTALLATION AND MAINTENANCE. CONTRACTORS MUST PROVIDE PULL STRINGS FOR ALL CONDUIT AND WIRE DUCT/RACEWAY. IN-FLOOR TRENCH DUCT AND FLUSH FLOOR BOXES SHALL BE PROVIDED WITH FULLY GASKETED REMOVABLE COVERS. WHEN JUNCTION BOXES AND WIRE DUCT/RACEWAY ARE MOUNTED HIGHER THAN 14 FEET ABOVE FINISHED FLOOR, THE ELECTRICAL CONTRACTOR SHALL

PROVIDE TWO ELECTRICIANS TO HELP THE SIEMENS INSTALL TEAM PULL SIEMENS SUPPLIED CABLES AT CUSTOMER EXPENSE. WHEN JUNCTION BOXES AND WIRE DUCT/RACEWAY ARE MOUNTED ABOVE A HARD CEILING (I.E. SHEET ROCK), A 24" x 24" ACCESS PANEL IS REQUIRED AT EACH JUNCTION BOX AND WITHIN 2 FEET OF EACH RACEWAY TRANSITION (SUCH AS A 90 DEGREE ELBOW OR TEE) IN DUCT/RACEWAY. THERE MUST BE FREE AND CLEAR ACCESS TO JUNCTION BOXES AND WIRE DUCT/RACEWAY. WHEN ACCESS PANELS ARE LOCATED MORE THAN 3 FEET FROM JUNCTION BOXES AND WIRE DUCT/RACEWAY THE ELECTRICAL CONTRACTOR SHALL PROVIDE TWO ELECTRICIANS TO HELP SIEMENS INSTALL TEAM PULL SIEMENS SUPPLIED CABLES AT CUSTOMER EXPENSE.

6) WIRING: ALL WIRING INSTALLED SHALL BE 600 VOLT CLASS, STRANDED TYPE THHN/THWN-2, SINGLE CONDUCTOR ANNEALED COPPER FOR A MAXIMUM OPERATING TEMPERATURE OF 90° C (194° F). SIZED AS INDICATED INSTALLED IN METAL RACEWAYS. THE CUSTOMER/CONTRACTOR SHALL LEAVE MINIMUM 10 FT. OF WIRE TAILS AT ALL OUTLET POINTS WITH WIRE IDENTIFICATION TAGGED AT BOTH ENDS FOR FINAL CONNECTION BY THE CUSTOMER/ELECTRICAL CONTRACTOR.

7) SHORT CIRCUIT REQUIREMENTS: ALL CIRCUIT BREAKERS SUPPLIED FOR THE SIEMENS EQUIPMENT REQUIREMENTS SHALL BE RATED HIGHER THAN THE SHORT CIRCUIT AVAILABLE AT THE TERMINALS OF THE ELECTRICAL EQUIPMENT AS DETERMINED BY THE ENGINEER OF RECORD, BUT NOT LESS THAN 35,000A RMS SYMMETRICAL AT 480V, 3-PHASE, 60 HERTZ. THE CONTRACTOR SHALL OBTAIN THE CORRECT SHORT CIRCUIT CURRENT RATING OF ALL THE NEW EQUIPMENT FOR INSTALLATION FROM THE ENGINEER OF RECORD.

							SOLA REV 14
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4/04/22 03/09/21	REMOVED SMS SUPPLIED CHILLER USING FACILTY CHILLED WATER 2100552RA DATED 02/08/21 APPROVED BY CUSTOMER FOR FINALS	THIS TITLE B SIEMENS AUTHO RESULT IN PROS	EPRODUCTION OF LOCK WITHOUT ORIZATION WILL SECUTION UNDER OF THE LAW.	PROJECT #: 2100)552	SHEET:	∩1
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		POW	ER S	SCHEI	DULE	
DETE OF F	RMINED BY RECORD PE	AND WIRES SIZES THE ELECTRICAL R N.E.C AND TO ANCE REQUIREME DM CONTROL ROOM	. ENGINEER MAINTAIN	480V, NOTE #1 MR BREAKE CIRCUIT POI SOURCE I		DUND WYE
	RF ROOM FILTERS T	O BE			ELECTRONICS CABINET SUPPLIED AN INSTALLED B	1D
	INSTALLEE SHIELDING CONTRACT	, BY NOTE	ED CUIT			
ITEM	QTY			DESCRIPTIO	NC	
MP	1	MAIN PANE MOUNTED.	L WITH MA	IN BREAKE	R FLUSH C	R SURFACE
A	1	MR SYSTEM WHEN ANY MR BREAKE	EPO IS P	RESSED TH	E BREAKEF	
		VOLTS		NEUTRAL	GROUND	TOTAL WIRES
		480	3	0	1	4 (NOTE 1)
1) AL NOTE	L WIRES	S MUST BE S S OTHERWISE	SAME SIZE. NOTED A	LL BREAKE	RS WILL BI	E 80% RATED.
EPO	VARIES	MAIN CIRCU WITH PROT ACTIVATION.	JIT BREAKE ECTIVE COV THE EPO TO HAVE BE RESET PERATION. TION TO B DF RECORI	R EMERGE VER THAT F MUST BE MECHANICA BEFORE M CONTACTS E DESIGNE D.	PREVENTS / OF FAIL—S L LATCHING IR BREAKE AND WIRING	G
		EPO CONTA SERIES, CO THE EPO'S	CTS TO BONNECTED	E NORMALL TO 9130 U INSTALLED	BY A QUA	LIFIED
		ELECTRICAL ELECTRICAL THE CUSTO IMPLEMENT/ CIRCUITS A CONSIDERIN FACTORS.	CODE, ST MER IS SO ATION OF ND MUST	ATE AND L DLELY RESF THE EPO'S MAKE THE	OCAL REGU PONSIBLE F AND THEIR FINAL DETE	JLATIONS. FOR THE ASSOCIATED ERMINATION
		RWISE NOTED AND INSTALL				HEDULE SHALL REV 0

POWER QUALITY NOTES

- 1) IT IS THE CUSTOMER'S RESPONSIBILITY TO COMPLY WITH THE POWER QUALITY REQUIREMENTS FOR SIEMENS MEDICAL SYSTEMS EQUIPMENT. 2) THE ELECTRICAL FEEDER TO THE SIEMENS MEDICAL SYSTEMS EQUIPMENT MUST FEED ONLY THE IMAGING SYSTEM AND BE KEPT SEPARATE FROM ELECTRICAL FEEDERS TO HVAC, MOTORS, PUMPS, COMPRESSORS, ELEVATORS, AND OTHER POTENTIAL SOURCES OF ELECTRICAL INTERFERENCE. 3) THE ELECTRICAL FEEDER TO THE IMAGING SYSTEM MUST BE RUN DÍRECTLY TO A MAIN FACILITY DISTRIBUTION PANEL OR TO THE
- FACILITY SERVICE ENTRANCE, WITH NO OTHER LOADS POWERED FROM THIS FEEDER. 4) IN ORDER TO COMPLY WITH IMAGING SYSTEM POWER QUALITY REQUIREMENTS, ADDITIONAL POWER CONDITIONING DEVICES MAY BE
- REQUIRED. EXAMPLES INCLUDE VOLTAGE REGULATORS, TRANSFORMERS, SURGE PROTECTIVE DEVICES, FILTERS, AND/OR UNINTERRUPTIBLE POWER SUPPLIES (UPS). RECOMMENDED FOR THE INSTALLATION OF ELECTRONIC EQUIPMENT CAN BE FOUND IN IEEE STANDARD 1100-1999 "POWERING AND GROUNDING ELECTRONIC EQUIPMENT:
- 5) POWER CONDITIONING DEVICES NOT APPROVED BY SIEMENS MEDICAL SYSTEMS MAY NOT BE COMPATIBLE WITH THE MAGNETOM SYSTEM. "FERRORESONANT" POWER CONDITIONING EQUIPMENT RE-APPLIED FROM PREVIOUS GENERATION SYSTEMS IS ALSO GENERALLY EXCLUDED DUE TO HIGHER POWER REQUIREMENTS OF THE NEWER SYSTEMS.
- 6) INCOMING SOURCE POWER WIRES MUST BE SEPARATED FROM ANY SIEMENS CABLING BY A MINIMUM OF 12". REV 0

CEILING HEIGHTS

EXAM ROOM 7'-11" MINIMUM CONTROL ROOM 6'-11 MINIMUM EQUIPMENT ROOM 7'-3'' MINIMUM

- THIS SET OF PLANS REPRESENTS A COMPLETE SET OF DETAILS AND SHOULD NOT BE SEPARATED.

- ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES. - THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

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VOLTAGE VARIATION:480 VAC $\pm 10\%$ FOR ALL LINE AND VOLTAGE UNBALANCE: 2% MAXIMUM DIFFERENCE BETW	
VOLTAGE:	480V – 3 PHASE
FREQUENCY:	60 Hz ± 1.0 Hz
LINE IMPEDANCE:	<180 mOHMS
CONNECTION VALUE	69 kVA
SHORT TIME POWER (LESS THAN 3 SECONDS)	75 kVA
MR SYSTEM BREAKER SIZE (A)	100 A
ALL BREAKERS ARE RATED AT 80%	

POWER QUALITY

POOR POWER WILL ALTER EQUIPMENT PERFORMANCE IT IS IN THE CUSTOMER'S INTEREST THAT THE ELECTRICAL CONTRACTOR BE RESPONSIBLE FOR TESTING AND VERIFYING THAT THE EQUIPMENT POWER SUPPLY COMPLIES WITH THE SIEMENS SPECIFICATIONS.

DEMAND AND CAPACITY

1) IF EQUIPMENT UPGRADE IS ANTICIPATED, INSTALLING ELECTRICAL POWER TO MEET THE REQUIREMENTS OF THE HIGHER POWER GRADIENT PACKAGE AT THE TIME OF INITIAL INSTALLATION WILL REDUCE THE COST TO UPGRADE THE ELECTRICAL SYSTEM LATER.

2) RECOMMENDED TRANSFORMER SIZE (SYSTEM WITHOUT UPS) IS BASED ON INDUSTRY STANDARD ISOLATION TRANSFORMER KVA RATINGS. SOURCE IMPEDANCE FEEDING THE MAGNETOM SYSTEM, INCLUDING ANY ISOLATION TRANSFORMERS, MUST MEET EQUIPMENT REQUIREMENTS AS LISTED HERE. SIEMENS RECOMMENDS A TRANSFORMER WITH COPPER WINDINGS. AN ELECTRO-STATIC SHIELD, AND A LOW IMPEDANCE (<3%) TO ENSURE THAT SOURCE IMPEDANCE REQUIREMENTS ARE MET.

3) OVER CURRENT PROTECTION IS SPECIFIED FOR SYSTEMS WITHOUT AN UNINTERRUPTIBLE POWER SUPPLY (UPS). ADDITION OF A UPS REQUIRES A HIGHER CAPACITY MAINS CONNECTION (DEPENDENT UPON UPS MODEL AND SIZE). MAXIMUM FAULT CURRENT IS DEPENDENT UPON THE IMPEDANCE OF THE FACILITY ELECTRICAL SYSTEM. THE CUSTOMER'S ARCHITECT OR ELECTRICAL CONTRACTOR TO SPECIFY AIC RATING OF OVER CURRENT PROTECTION BASED ON FACILITY IMPEDANCE CHARACTERISTICS.

4) MOMENTARY POWER IS BASED ON A MAXIMUM RMS VALUE FOR A PERIOD NOT TO EXCEED FIVE (5) SECONDS, AS DEFINED IN NEC. 517.2. STAND-BY AND AVERAGE CURRENT ARE SUBSTANTIALLY LOWER.

5) THE CONDUCTOR SIZE SHOULD BE SELECTED TO MEET THE VOLTAGE DROP REQUIREMENTS, TAKING INTO CONSIDERATION THE MAINS CAPACITY, RUN LENGTH, AND ANY ADDITIONAL TRANSFORMERS USED TO OBTAIN THE PROPER EQUIPMENT VOLTAGE LEVEL. NEMA STANDARD XR-9-1989 (R1994,R2000) PROVIDES GENERAL GUIDELINES FOR SIZING CONDUCTORS, TRANSFORMERS, AND ELECTRICAL SYSTEMS FOR MEDICAL IMAGING SYSTEMS.

6) LONG-TIME POWER IS BASED ON THE HIGHEST AVERAGE RMS VALUES FOR A PERIOD EXCEEDING 5 MINUTES DURING CLINICAL SYSTEM OPERATION, AS DEFINED IN NEC 517.2.

7) A CIRCUIT BREAKER WITH A HIGH INRUSH RATING (>8x RATED CURRENT) IS REQUIRED TO PERMIT SWITCH-ON OF THE UPS SYSTEM WITHOUT SPURIOUS TRIPPING. CIRCUIT BREAKERS WITH AN ADJUSTABLE MAGNETIC TRIP (SIEMENS FD6 SERIES OR SIMILAR) ARE HIGHLY RECOMMENDED.

REV 1

ELECTRICAL INSTALLATION NOTES

1) INSTALL THE MR SYSTEM CIRCUIT BREAKER IN OR NEAR THE EQUIPMENT ROOM. THE PERMITTED FRINGE FIELD FOR THE PANEL IS UP TO 3mT. IF THE FRINGE FIELDS HAVE HIGHER VALUES. MAGNETIC SHIELDING MUST BE PROVIDED OR THE DISTANCE FROM THE MAGNET MUST BE INCREASED.

2) AN ACCEPTABLE MEANS FOR SWITCHING MAIN POWER ON AND OFF SHOULD BE INSTALLED IN THE MAIN BREAKER PANEL. INSTALL EMERGENCY SHUTDOWN BUTTONS IN EACH ROOM WHERE THERE IS SIEMENS EQUIPMENT.

3) THE ELECTRICAL FEEDER TO THE SIEMENS EQUIPMENT MUST FÉED ONLY THE IMAGING SYSTEM AND BE KEPT SEPARATE FROM ELECTRICAL FEEDERS TO HVAC, MOTORS, PUMPS, COMPRESSORS, ELEVATORS AND OTHER POTENTIAL SOURCES OF ELECTRICAL INTERFERENCE.

4) THE EMERGENCY POWER OFF (EPO) BUTTONS ARE TO BE MUSHROOM TYPE WITH PUSH LOCK AND PULL TO RELEASE.

5) WALL RECEPTACLES MADE OF FERROMAGNETIC MATERIALS ARE NOT PERMITTED IN THE EXAM ROOM. PERIPHERAL UNITS (SUCH AS VENTILATORS) NOT APPROVED FOR USE IN A HIGH MAGNETIC FIELD ENVIRONMENT CAN INFLUENCE THE MAGNETIC FIELD, COMPROMISING IMAGE QUALITY. THE CUSTOMER IS RESPONSIBLE FOR INSTALLATION AND USE OF RECEPTACLES IN THE EXAM ROOM. INSTALLATION OF RECEPTACLES AND THE FILTERS REQUIRED ARE TO BE COORDINATED WITH THE RF SHIELDING SUPPLIER.

6) THE RF SHIELD MUST BE FITTED WITH A GROUND STUD OR BUS BAR. LOCATED WITHIN 24" OF THE AUXILIARY FILTERS FOR ROOM LIGHTS AND OUTLETS, SUPPLIED AND INSTALLED BY THE RF SHIELD SUPPLIER.

7) IN ORDER TO PREVENT GROUND LOOPS, ALL CUSTOMER OR CUSTOMER/CONTRACTOR SUPPLIED AC POWER ENTERING THE EXAMINATION ROOM (I.E. OUTLETS, EPO, ETC.) SHOULD BE SUPPLIED VIA AN ISOLATION TRANSFORMER. THE ISOLATION TRANSFORMER SECONDARY WINDING GROUND CONDUCTOR SHOULD BE CONNECTED TO THE RF SHIELD GROUND STUD OR BUS BAR.

REV

GROUNDING NOTES

EQUIPMENT GROUNDING CONDUCTOR TO COMPLY WITH THE FOLLOWING:

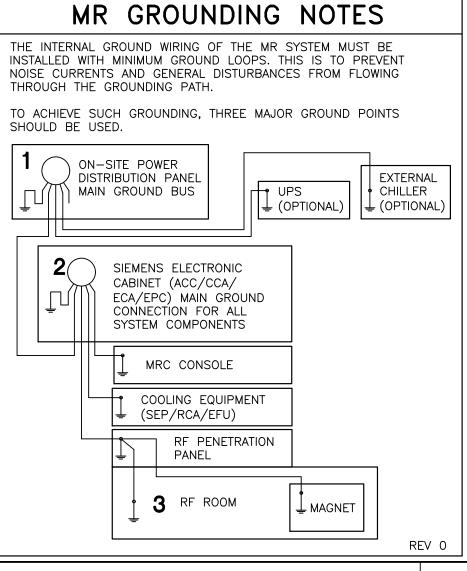
1) SIZE GROUNDING WIRE TO SIEMENS EQUIPMENT PER POWER SCHEDULE REQUIREMENTS. 2) DERIVED FROM THE ELECTRICAL SERVICE, TRANSFORMER

OR MAIN DISTRIBUTION PANEL FEEDING THE SIEMENS EQUIPMENT. 3) RUN IN THE SAME CONDUIT, TROUGH OR RACEWAY AS THE

PHASE CONDUCTORS. 4) CONTINUOUS, WITH NO BREAKS OR USE OF CONDUIT, CHASSIS OR EARTH AS THE SOLE GROUNDING PATH.

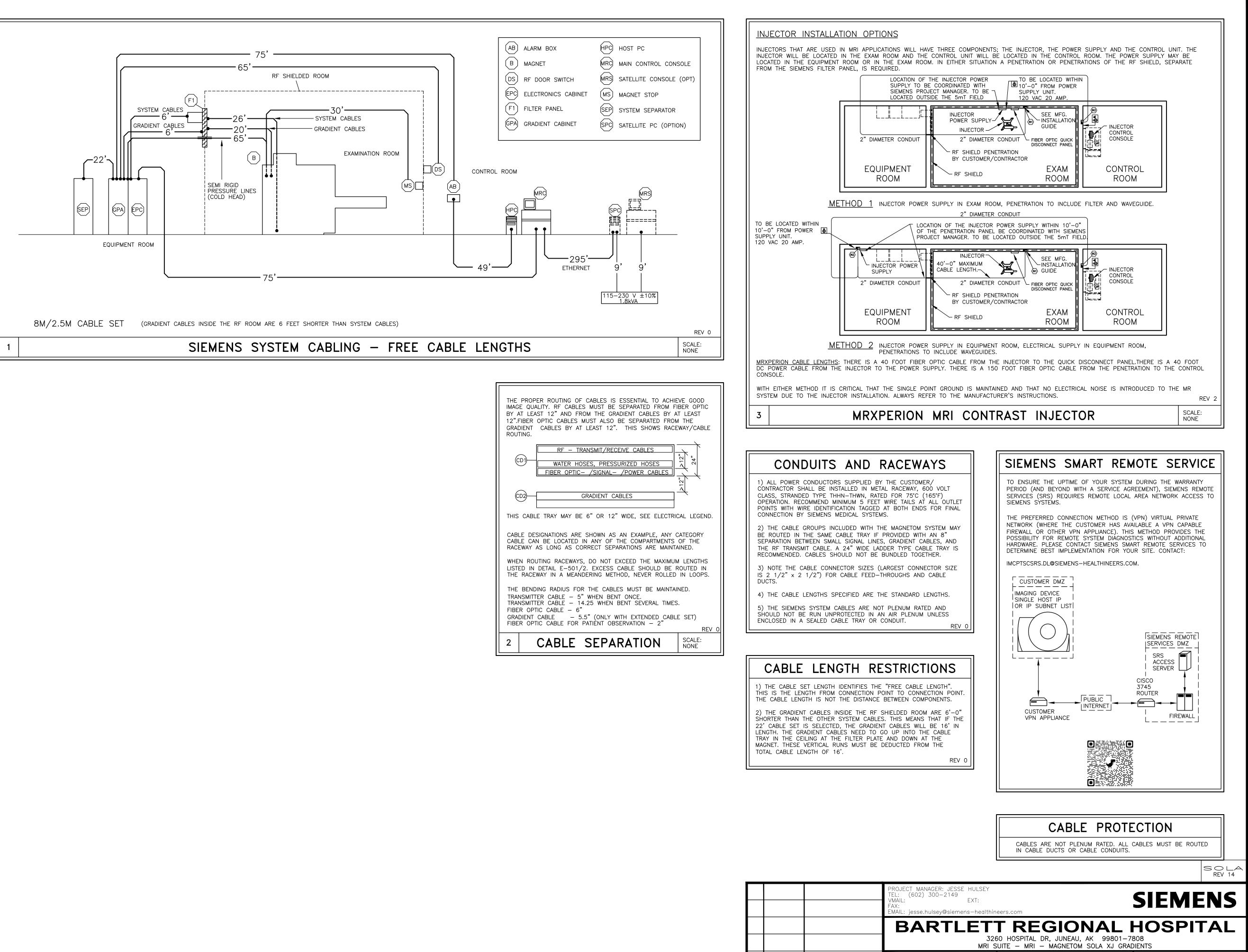
5) BONDED TO CHASSIS AND/OR CONDUIT IN ACCORDANCE WITH THE NEC REQUIREMENTS. 6) MINIMIZE CONNECTIONS OR TERMINALS TO ENSURE

CONTINUITY OVER THE LIFE OF THE INSTALLATION. 7) AS A NORM. THERE SHOULD NOT BE ANY CURRENT PRESENCE ON THE GROUND CONDUCTOR, BUT IT IS ACCEPTABLE TO HAVE <500mA DURING OPERATION OF THE IMAGING EQUIPMENT.



SOLA REV 14

		TEL: (602) 300 VMAIL: FAX:	R: JESSE HULSEY -2149 EXT: y@siemens-healthir	neers.com		SIEMENS
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04/04/22	REMOVED SMS SUPPLIED CHILLER USING FACILTY CHILLED WATER	THIS TITLE B	PRODUCTION OF LOCK WITHOUT	PROJECT #:		SHEET:
03/09/21	2100552RA DATED 02/08/21 APPROVED BY CUSTOMER FOR FINALS	RESULT IN PROS	ORIZATION WILL SECUTION UNDER OF THE LAW.	2100	D552	
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- THIS DRAWING IS DESIGNED TO CONFORM TO FEATURES AND EQUIPMENT REQUIREMENTS PRESENTED AT THE TIME OF THEIR PREPARATION. SINCE BOTH THESE FACTORS ARE SUBJECT TO DESIGN MODIFICATION, THEY ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES. - THIS SET OF PLANS REPRESENTS A COMPLETE SET OF DETAILS AND SHOULD NOT BE SEPARATED.

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REMOVED SMS SUPPLIED CHILL

USING FACILTY CHILLED WATER

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APPROVED BY CUSTOMER FOR FINALS

DESCRIPTION

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DRAWN BY

D. BRISTOE

HE USE OR REPRODUCTION OF

HIS TITLE BLOCK WITHOUT

SIEMENS AUTHORIZATION WILL

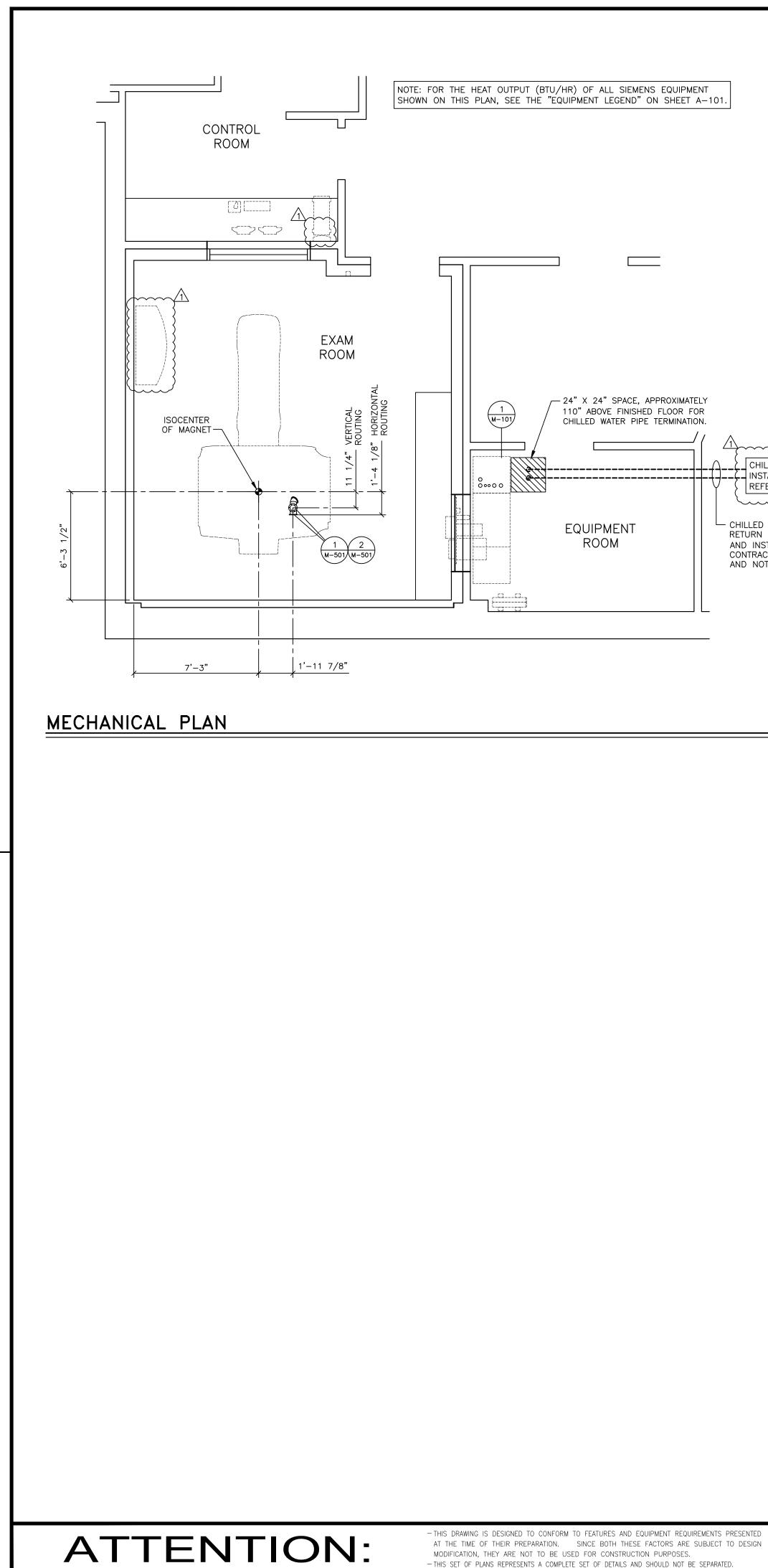
RESULT IN PROSECUTION UNDER

FULL EXTENT OF THE LAW.

ALL RIGHTS ARE RESERVED.

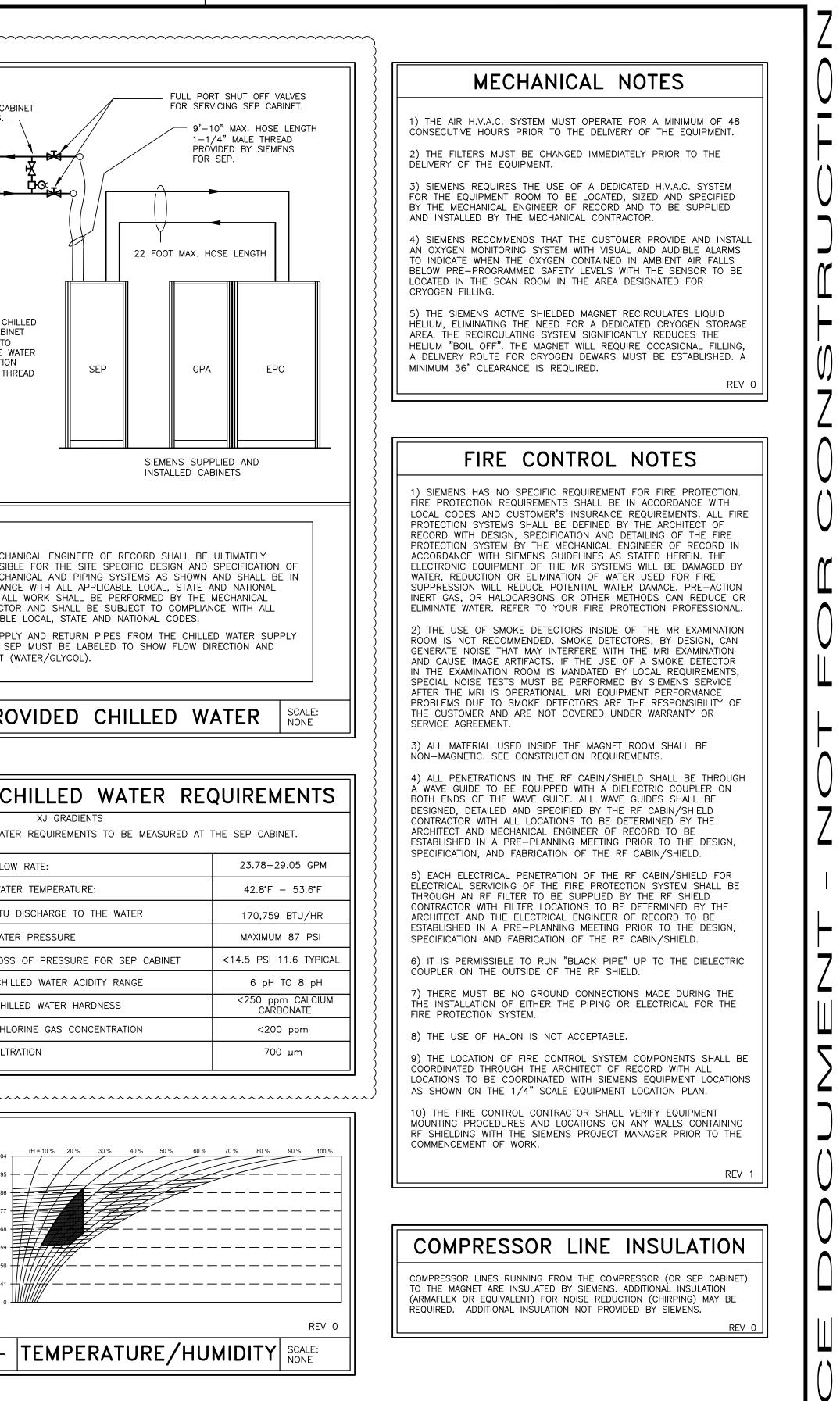
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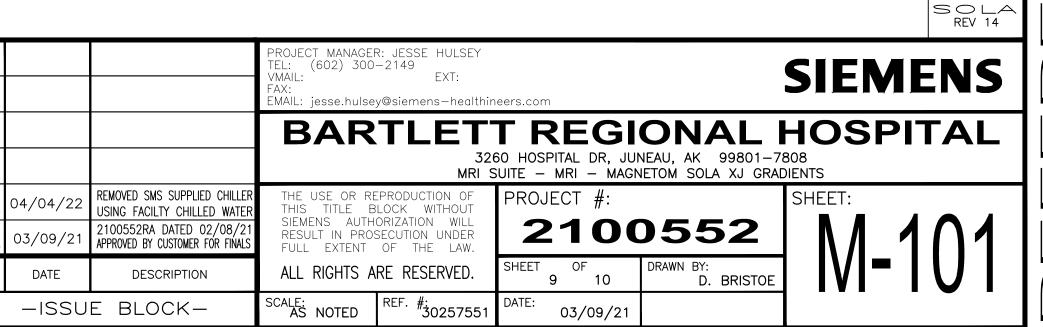
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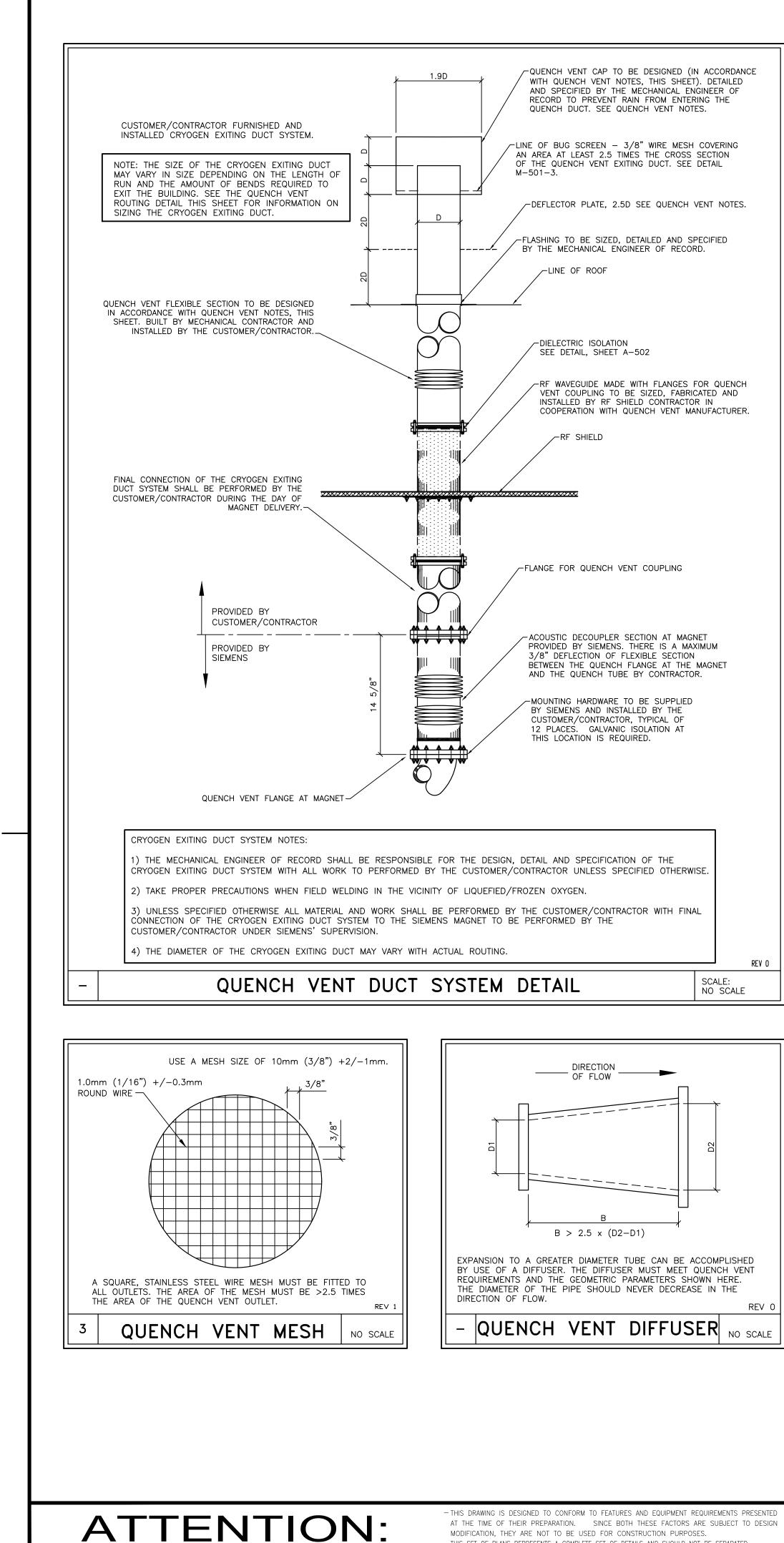


	BYPASS FOR SERVICING SEP C. TO BE EQUAL SIZE AS PIPING. DEDICATED, STAND ALONE, CLOSED LOOP WATER CHILER OR FACILITY CENTRAL CHILED WATER SUPPLY TO MEET REQUIREMENTS LISTED ON THIS SHEET. PROVIDE FULL PORT SHUT OFF VISUAL FLOW METER WITH GAUGE WATER FULL PORT SHUT OFF VALVE THE PIPE OR HOSE FROM THE CONNECTION OF THE SEP CAB MAINTAIN THE FUNCTION OF THE CONNECTION OF THE COOLING CIRCUIT. THE CONNECTION MAINTAIN THE FUNCTION OF THE COOLING CIRCUIT. THE CONNECTION MAINTAIN THE FUNCTION OF THE COOLING CIRCUIT. THE CONNECTION MAINTAIN THE FUNCTION OF THE COOLING CIRCUIT. THE CONNECTION MAINTAIN THE FUNCTION OF THE COOLING CIRCUIT. THE CONNECTION MAINTAIN THE FUNCTION OF THE COOLING CIRCUIT. THE CONNECTION MAINTAIN THE FUNCTION OF THE COOLING CIRCUIT. THE CONNECTION MAINTAIN THE FUNCTION OF THE COOLING CIRCUIT. THE CONNECTION MAINTAIN THE FUNCTION OF THE COOLING CIRCUIT. THE CONNECTION MAINTAIN THE FUNCTION OF THE COOLING CIRCUIT. THE CONNECTION MAINTAIN THE FUNCTION OF THE COOLING CIRCUIT. THE CONNECTION MAINTAIN THE FUNCTION OF THE COOLING CIRCUIT. THE CONNECTION MAINTAIN THE FUNCTION OF THE COOLING CIRCUIT. THE CONNECTION
CHILLER TO BE SUPPLIED, LOCATED AND INSTALLED BY CUSTOMER/CONTRACTOR. REFER TO MANUFACTURER'S INFORMATION. HILLED WATER SUPPLY AND ETURN LINES TO BE SUPPLIED ND INSTALLED BY CUSTOMER/ ONTRACTOR. SEE DETAILS ND NOTES ON THIS SHEET.	PRESSURE GAUGE WITH RANGE FROM 40 TO 110 PSI (LOCATED NEAR SEP) BOILER DRAIN FILTER - 700 MICRONS MINIMUM A BYPASS MAY BE BENEFICIAL FOR MAINTENANCE PURPOSES. ALL PIPING AND PLUMBING FIXTURES SHALL BE FURNISHED, INSTALLED, PRESSURE TESTED AND CHARGED BY THE MECHANICAL CONTRACTOR PRIOR TO THE DELIVERY AND INSTALLATION OF THE SIEMENS SUPPLIED AND INSTALLED EQUIPMENT UNLESS SPECIFIED OTHERWISE. THE MECHANICAL ACODES. A CONTRACT ACODES. AT THE HIGHEST POINT OF THE WATER SUPPLY PIPE FROM THE CHILLER AN AUTOMATIC DEAERATION DEVICE (AIR VENT) WITH BALL VALVE MUST BE INSTALLED BY THE MECHANICAL CONTRACTOR. SYSTEM MUST BE PROVEN TO BE FREE FROM LEAKAGE. THE SUP TO THE : CONTENT
SCALE: $1/4" = 1'-0"$	1 PIPING SCHEMATIC FOR FACILITY PR CHILLED WATER SUPPLY
SCALE: 1/4 = 1-0	A CHILLED WATER SUPPLY IS REQUIRED TO THE MRI SYSTEM 24 HOURS A DAY, YEAR ROUND FOR THE COLD HEAD AND GRADIENT SYSTEMS. THIS CAN BE PROVIDED BY A CENTRAL CHILLED WATER SUPPLY OR A SEPARATE STAND ALONE CHILLER THAT MEETS THE STATED REQUIREMENTS. CHILLED WATER CAN ALSO BE SUPPLIED BY A CHILLER PROVIDED BY SIEMENS. A SEPARATOR CABINET (SEP) OR INTERFACE PANEL (IFP) MUST BE INCLUDED WITH THE SIEMENS ORDER. THE PIPE SIZE BETWEEN THE WATER SUPPLY AND SEP MUST MEET MANUFACTURER AND SIEMENS REQUIREMENTS; LARGER DIAMETER PIPE MAY BE REQUIRED DUE TO LENGTH OF RUN. FLOW AND PRESSURE REQUIREMENTS MUST BE MET. PERMISSIBLE MATERIALS THAT CAN BE USED FOR THE PIPING ARE: STAINLESS STEEL (V2A, V4A), NON-FERROUS METAL (COPPER, BRASS), SYNTHETIC MATERIALS THAT CAN BE USED FOR THE PIPING ARE: STAINLESS STEEL (V2A, V4A), NON-FERROUS METAL (COPPER, BRASS), SYNTHETIC MATERIAL, PLASTICS, BRAZING SOLDER, HARD SOLDER, OR FITTING SOLDER TYPE 3 AND 4. THERE ARE MATERIALS THAT MAY CAUSE DAMAGE TO THE COOLING SYSTEM AND CANNOT BE USED, THESE MATERIALS ARE ALUMINUM, IRON, CARBON STEEL, ZINC, ZINC PLATED STEEL, OR STANDARD STEEL PIPES. 27 GALLONS OF DISTILLED/DE-IONIZED WATER MUST BE PROVIDED AND INSTALLED BY CUSTOMER/CONTRACTOR FOR FILLING THE SECONDARY CHILLED WATER CIRCUIT. SEE MANUFACTURER'S REQUIREMENTS FOR GLYCOL AND WATER QUALITY TO BE PROVIDED AND FILLED BY CUSTOMER/CONTRACTOR. THE SUPPLY AND RETURN CHILLED WATER PIPES MUST BE LABELED. THE LOCATION OF THE LABELS MUST BE AT ALL CONNECTION AND REFILLING POINTS AND MUST CONTAIN FLOW DIRECTION AND CONTENTS.
ENVIRONMENTAL REQUIREMENTS	
 1) AIR CONDITIONING IS TO PROVIDE A TEMPERATURE OF 70°F ±5°F IN THE EXAM ROOM, 70°F±10°F IN THE EQUIPMENT & CONTROL AREAS, RELATIVE HUMIDITY OF 40-60% (NON-CONDENSING) IS REQUIRED EXAMINATION ROOM AND 40-80% (NON-CONDENSING) IN ALL OTHER AREAS WHERE SIEMENS EQUIPMENT IS INSTALLED. THESE CONDITIONS ARE TO BE MET AT ALL TIMES; 24 HOURS A DAY, 7 DAYS A WEEK. 2) A DEDICATED AIR CONDITIONING AND HUMIDIFICATION SYSTEM IS RECOMMENDED FOR THE EXAM ROOM. A MINIMUM AIR EXCHANGE RATE OF 6 TIMES PER HOUR FOR THE EXAM ROOM IS REQUIRED. IT IS RECOMMENDED TO INSTALL A FRESH AIR SYSTEM WITH 30%-50% FRESH AIR INTAKE. AIR SUPPLY AND RETURN ABOVE THE FINISHED CEILING IN THE EXAM ROOM IS RECOMMENDED. EACH ROOM SHOULD HAVE A DEDICATED CONTROL AND SENSOR TO MONITOR AND ADJUST THE AIR. 3) THE HEAT INTO THE EXAM ROOM IS LESS THAN 10,236 BTU/HR. THIS HEAT DISSIPATION IS FROM THE SIEMENS EQUIPMENT ONLY, AUXILIARY SUPPORT EQUIPMENT ROOM IS LESS THAN 3,412 BTU/HR. THIS HEAT DISSIPATION IS FROM THE SIEMENS EQUIPMENT ONLY, AUXILIARY SUPPORT EQUIPMENT (ie. UPS) AND LIGHTING MUST BE CONSIDERED FOR TOTAL HEAT LOADS. 4) IT IS IMPORTANT FOR FRESH AIR INTAKE SYSTEMS TO EXHAUST AIR DIRECTLY OUT OF THE BUILDING. THE EXHAUST AIR MUST NOT BE DEFLECTED INTO ANOTHER ROOM. THE MAGNET ROOM EXHAUST AIR SHOULD BE INSTALLED AT LEAST 6'-6" ABOVE FINISHED FLOOR. 	
5) THE AIR INTAKE OF THE AIR CONDITIONING SYSTEM MUST NOT BE LOCATED IN THE VICINITY OF THE QUENCH VENT EXHAUST.6) IF THE INPUT DRAWS UPON AIR FROM OUTSIDE THE BUILDING, IT	CEILING HEIGHTS
 IS RECOMMENDED TO INSTALL AN ON-SITE FILTER TO REMOVE DUST PARTICLES GREATER THAN 10 MICRONS. 7) DO NOT LOCATE ANY HVAC DIFFUSERS ABOVE THE MAGNET. THERE SHALL NOT BE AIR BLOWING DIRECTLY ON THE MAGNET. 12/11/12 	EXAM ROOM 7'-11" MINIMUM CONTROL ROOM 6'-11 MINIMUM EQUIPMENT ROOM 7'-3" MINIMUM

- ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES. - THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.







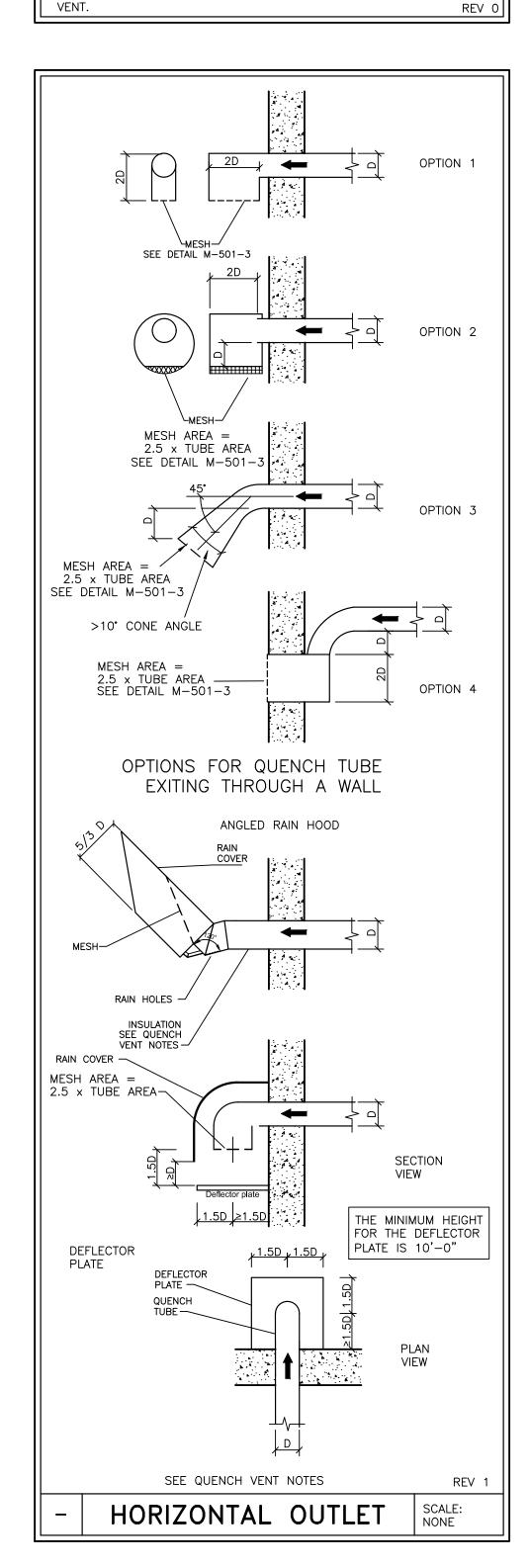
CRYOGEN NOTES

) "CRYOGENS" IS A TERM USED TO IDENTIFY THE REFRIGERANT USED TO MAKE THE MAGNET "SUPER-CONDUCTING", IN THIS APPLICATION, LIQUID AND GASEOUS HELIUM. SPECIAL CARE MUST BE TAKEN DURING THE TRANSFILLING OF THE MAGNET WITH CRYOGENS AND NORMAL EXHAUST OF CRYOGENS FROM THE SYSTEM. ASIDE FROM THE OBVIOUS DANGER OF FREEZING, HELIUM GAS WILL ALSO DISPLACE THE OXYGEN IN THE ROOM. THE INSTALLATION OF AN APPROVED TOXGARD MONITORING SYSTEM IS RECOMMENDED.

2) THERE SHALL BE A TRANSPORT ROUTE FOR DELIVERY OF CRYOGENS TO THE EXAM ROOM. SPECIAL VESSELS CALLED DEWARS ARE USED TO TRANSPORT HELIUM. A 250 LITER DEWAR WEIGHS 335 POUNDS AND HAS A 32" DIAMETER, A 500 LITER IS 540 POUNDS, AND IS 42" IN DIAMETER.

3) HELIUM GAS CYLINDERS MAY BE USED DURING THE INITIAL FILLING OF HELIUM INTO THE MAGNET. THE FACILITY IN WHICH THESE MAY BE USED NEEDS TO HAVE THE ABILITY TO TEMPORARILY STORE AND SECURE THESE CYLINDERS THAT WILL PREVENT THEM FROM INADVERTENTLY FALLING OVER.

4) OUTSIDE VENTING OF THE HELIUM IS TO BE PROVIDED BY MEANS OF A VENT PIPE OF NON-MAGNETIC MATERIAL CALLED A QUENCH



QUENCH VENT NOTES

QUENCH VENT DESIGN INSTRUCTIONS I) IN THE EVENT OF A QUENCH, THE THERMAL ENERGY DISSIPATED CAUSES AN EXTREMELY RAPID BOIL OFF OF THE LIQUID HELIUM. THE SYSTEM MUST BE CAPABLE OF VENTING THE LARGE VOLUME OF GAS GENERATED AT THE APPROXIMATE EXPANSION RATIO OF 1:700 FROM LIQUID AT 4.2°K TO ROOM TEMPERATURE GAS. THE EXHAUST SYSTEM IS CRITICAL FOR THE SAFE OPERATION OF THE MAGNET, THE DATA IN THIS DOCUMENT MUST BE FOLLOWED. SINCE HELIUM VENTED IN A QUENCH IS AN ASPHYXIANT & AN EXTREMELY COLD GAS, THE QUENCH TUBE MUST ALWAYS END AT A POINT WHERE ACCESS BY PEOPLE IS NOT POSSIBLE. QUENCH TUBE PLANNING MUST ONLY BE DONE BY QUALIFIED PERSONNEL. IT IS THE OWNER'S RESPONSIBILITY TO ENSURE THAT THE QUENCH TUBE IS MAINTAINED IN AN OPERABLE STATE.

2) IF THE QUENCH VENT IS NOT CONFIGURED CORRECTLY THERE IS A RISK OF DANGER THAT MAY LEAD TO DEATH OR SERIOUS INJURY AND CAN RESULT IN STRUCTURAL DAMAGE. THE EXHAUST MUST NOT BE VENTED IN AN ENCLOSED SPACE. THE OPERATOR OF THE SYSTEM MUST PREPARE AN EMERGENCY PLAN IN THE EVENT OF A QUENCH. 3) THE QUENCH TUBE CONSISTS OF STRAIGHT, HYDRAULICALLY SMOOTH SECTIONS, BENDS UP TO 90° AND A DIFFUSER, IF REQUIRED. THE END OF THE TUBE MUST BE PROTECTED FROM RAIN, SNOW, AND FOREIGN OBJECTS. ROUND SECTIONS ONLY, NO SQUARE SECTIONS. 4) THE SIEMENS MAGNET HAS A QUENCH VALVE ASSEMBLY FOR CONNECTION TO THE TUBE LOCATED AT THE TOP LEFT SIDE OF THE MAGNET (SEE MAGNET ELEVATION). THE MECHANICAL CONTRACTOR WILL SUPPLY AND INSTALL A QUENCH VENT TUBE WITH CAP, TO BE NON-MAGNETIC STAINLESS STEEL (\geq 22 GAUGE RECOMMENDED). GRADES AISI304, 309, 316, OR 321 ONLY. THERMAL CONDITIONS MAY CAUSE THE TUBE TO CONTRACT UP TO 3mm/METER SO A STAINLESS STEEL BELLOWS OR FLEXIBLE SECTION MUST BE INSTALLED A MINIMUM OF EVERY 32'-9" NOT TO EXCEED 2% OF THE OVERALL LENGTH. THE QUENCH TUBE MAY ALSO BE MADE OF ALUMINUM, EXTRUDED TUBE ALUMINUM GRADES 6063 AND 6082 ONLY MUST BE USED. ROLLED AND WELDED TUBE FROM SHEET ALUMINUM GRADE 5083 ONLY MUST BE USED. THE WALL SECTIONS OF ALUMINUM TUBE MUST BE A MINIMUM 14 GAUGE. THERMAL CONTRACTION OF 4.5 MM/METER MUST BE CONSIDERED FOR ALUMINUM QUENCH TUBES. THE MOVEMENT OF THE BELLOWS MUST BE RESTRICTED TO PREVENT EXCESSIVE EXPANSION DUE TO PRESSURE. THE WEIGHT OF THE TUBE MUST BE SUPPORTED BY THE BUILDING AND BE FLEXIBLE ENOUGH TO ALLOW MOVEMENT FROM THERMAL CONTRACTION. THE WALL EXIT SHOULD ALSO BE FLEXIBLE.

PRESSURE CALCULATION

5) THE MAXIMUM INTERNAL PRESSURE IS CALCULATED AT 1.45 PSI. THE MAXIMUM PRESSURE SHOULD BE ENGINEERED FOR 6.5 PSI.

6) USE THE QUENCH VENT CALCULATOR PROVIDED BY SIEMENS TO DESIGN A QUENCH VENT THAT MEETS DESIGN REQUIREMENTS FOR DIAMETER. LENGTH. NUMBER OF ELBOWS AND PRESSURE DROP. ALL BENDS MUST BE SMOOTH WALLED AND HAVE A CENTERLINE TO INTERNAL PIPE DIAMETER RATIO OF 1.5 TO 5.0. EXPANSIONS TO PIPE DIAMETER CAN BE DONE WITH A DIFFUSER. ONLY ROUND TUBE

SECTIONS MAY BE USED, RECTANGULAR SECTIONS ARE NOT ALLOWED. 7) THERE MUST BE A 12-19 INCH FLEXIBLE SECTION OF PIPE FOR CONNECTION TO THE QUENCH VALVE AT THE MAGNET WITH AN INSIDE DIAMETER GREATER THAN 4" (1.5T) OR 6" (3.0T) AND ABLE TO WITHSTAND 6.5 PSI.

CONNECTING SECTIONS 3) SECTIONS OF THE PIPE CAN ONLY BE JOINED BY WELDING OR BOLTED FLANGES WITH FIBER GASKETS. ROTARY FLANGES ARE PERMITTED, VEE CLAMPED FLANGES MAY NOT BE USED.

QUENCH VENT EXIT 9) THE PROTECTION AT THE END OF THE TUBE SHALL BE 3/8" WIRE MESH WITH 1/16 INCH WIRES, COVERING AN AREA AT LEAST 2.5 TIMES THE CROSS SECTION AREA OF THE QUENCH PIPE.

10) WHERE THE QUENCH TUBE EXITS THROUGH A FLAT ROOF, THE THE OUTLET MUST BE ABOVE A LEVEL WHERE WATER COULD ENTER IN THE EVENT THAT THE ROOF DRAINS BECOME BLOCKED. IN THE CASE OF A HORIZONTAL EXIT THROUGH A WALL, THE OUTLET SHALL BE ANGLED DOWNWARD NOT LESS THAN 1 PIPE DIAMETER TO PREVENT RAIN INGRESS. THE EXIT SHALL BE LOCATED ABOVE THE LEVEL OF DRIFTING SNOW.

11) WHERE THE QUENCH TUBE EXITS VERTICALLY, A RAIN COVER MÚST ALSO BE FITTED WITH THE DIAMETER TO BE TWO TIMES THE DIAMETER OF THE QUENCH TUBE. THE CLEARANCE BETWEEN THE RAIN GUARD AND THE MESH SHALL 2 TIMES THE DIAMETER OF THE TUBE. A DEFLECTOR PLATE SHALL BE WELDED TO THE TUBE WHERE IT EXITS THE ROOF TO PREVENT HELIUM FROM RE-ENTERING THE BUILDING. THE DEFLECTOR SHALL BE AT LEAST 3 TIMES THE DIAMETER OF THE QUENCH TUBE AND LOCATED TWO PIPE DIAMETERS ABOVE THE ROOF AND TWO PIPE DIAMETERS BELOW THE RAIN GUARD.

DURING A QUENCH THE HELIUM GAS EXITING THE QUENCH PIPE MAY BE AT TEMPERATURES OF LESS THAN -400°F. DUE TO THIS TEMPERATURE ROOFING MATERIALS OR ITEMS AROUND THE VENT EXIT MAY BE ADVERSELY AFFECTED. CONSIDERATION OF MATERIALS AND ITEMS PLACED NEAR THE VENT EXIT SHOULD BE TAKEN INTO ACCOUNT SO DAMAGE DOES NOT OCCUR.

12) WHERE THE QUENCH TUBE EXITS HORIZONTALLY, THE OUTLET MUST CONFORM TO OPTIONS 1-4 OR THE ANGLED RAIN HOOD. THE OUTLET SHOULD NOT BE LOCATED WHERE HELIUM GAS CAN BE DRAWN INTO AN AIR INLET, ENTER AN OPEN WINDOW, OR BLOW DIRECTLY ONTO STRUCTURE OR EQUIPMENT. RESTRICT ACCESS TO WINDOWS AND DOORS TO AVOID INJURY FROM COLD BURNS AND ASPHYXIATION BY 9'-11" ON EACH SIDE, BELOW AND 19'-9" ABOVE, IF THE OUTLET IS POSITIONED TOO LOW A DEFLECTOR PLATE CAN BE USED WITH OPTION 1 AND 3.

WARNING SIGNS AND OUTLET RESTRICTIONS A WARNING SIGN MUST BE FIXED AND VISIBLE NEAR THE QUENCH VENT OUTLET. THE TUBE MUST HAVE A WARNING POSTED ALONG IT'S ENTIRE LENGTH FOR EXTREMELY COLD HELIUM GAS -AUTHORIZED PERSONNEL ONLY.

13) AREAS WITH ACCESS IN THE AREA OF THE OUTLET MUST BE CLÉARLY IDENTIFIED AND FENCED, FOR EXAMPLE, A ROOF OUTLET WITH MAINTENANCE ACCESS.

INSULATION AND GALVANIC SEPARATION

14) THE QUENCH TUBE MUST HAVE MINIMUM 1" INSULATION FOR THE FULL LENGTH. WITHIN THE RF ROOM THERE SHOULD BE A 1" LAYER OF MINERAL FIBER INSULATION WITH A VAPOR BARRIER AND " CLASS O OR CLASS AP ARMAFLEX. OUTDOOR PIPES MUST BE WEATHERPROOF. THE INSULATION MUST NOT TOUCH THE MAGNET COVERS. TO AVOID RF DISTURBANCES THE INSULATION MUST NOT MAKE ELECTRICAL CONTACT WITH THE WAVEGUIDE.

15) GALVANIC SEPARATION MUST BE PROVIDED BETWEEN THE MAGNET, THE QUENCH VENT, THE RF ROOM, AND THE BUILDING, TWO SEPARATIONS ARE REQUIRED USING STAINLESS STEEL BOLTS, INSULATING BUSHES AND LOCKING NUTS. NO OTHER DESIGNS ARE PERMITTED FOR SAFETY.

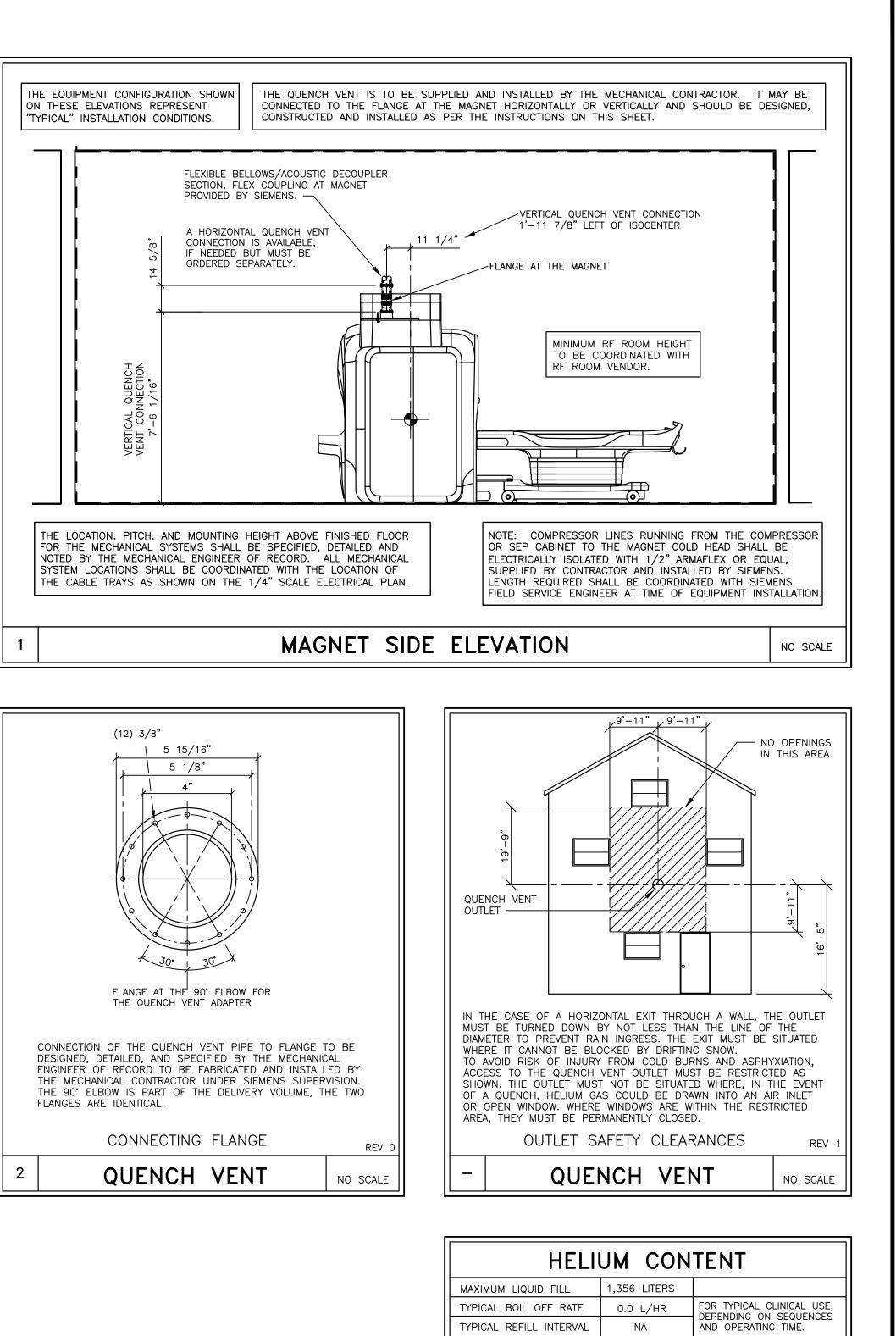
DOCUMENTATION

16) THE DESIGN AND CONSTRUCTION OF THE QUENCH PIPE MUST BE DOCUMENTED WITH DRAWINGS AND CALCULATIONS THAT ARE KEPT WITH INSTALLATION DOCUMENTS. IT MUST COMPLY WITH THE REQUIREMENTS IN THIS DOCUMENT BEFORE BEING CONNECTED TO THE MAGNET.

MODIFICATION, THEY ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES.

- THIS SET OF PLANS REPRESENTS A COMPLETE SET OF DETAILS AND SHOULD NOT BE SEPARATED.

- ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES. - THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

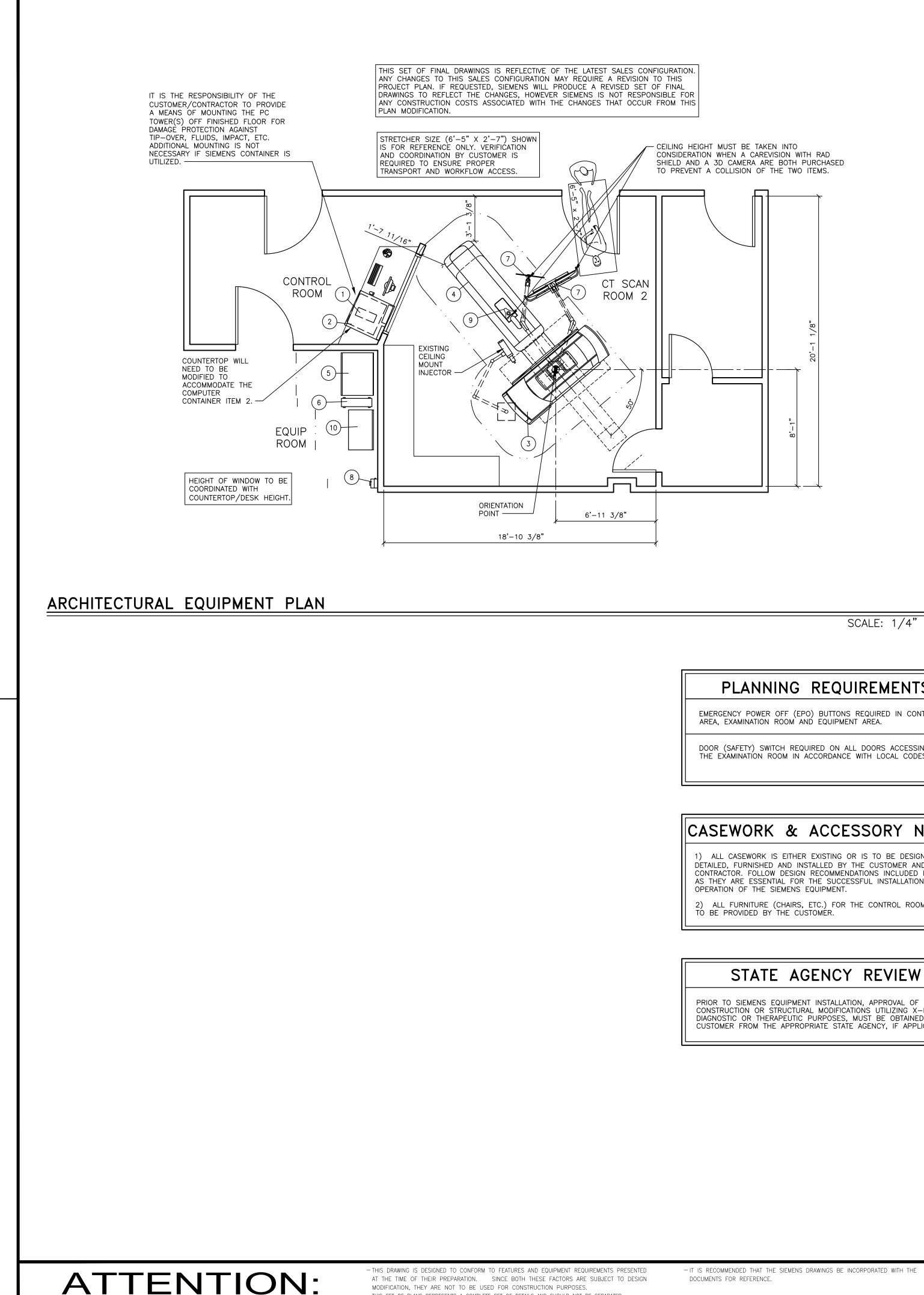


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		PROJECT MANAGEF TEL: (602) 300 VMAIL: FAX: EMAIL: jesse.hulse		eers.com		SIEMEN	
		BAR	326	50 HOSPITAL DR, JUI	ONAL I NEAU, AK 99801-78 NETOM SOLA XJ GRAE		۱L
4/04/22 03/09/21	REMOVED SMS SUPPLIED CHILLER USING FACILTY CHILLED WATER 2100552RA DATED 02/08/21 APPROVED BY CUSTOMER FOR FINALS	THIS TITLE B	ORIZATION WILL SECUTION UNDER	PROJECT #: 2100	0552	SHEET:	1
DATE	DESCRIPTION		RE RESERVED.	SHEET OF 10 10	DRAWN BY: D. BRISTOE		/
-ISSU	E BLOCK-	SCALE: AS NOTED	REF. #: 30257551	DATE: 03/09/21			

WITHOUT THE COLD HEAD RUNNING THE LIQUID HELIUM WILL BOIL OFF

THE LOSS DURING SHIPPING IS APPROXIMATELY 65 LITERS PER DAY.

FROM 97% TO 0% IN APPROXIMATELY 30 DAYS.



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

PLANNING REQUIREMENTS

EMERGENCY POWER OFF (EPO) BUTTONS REQUIRED IN CONTROL

DOOR (SAFETY) SWITCH REQUIRED ON ALL DOORS ACCESSING THE EXAMINATION ROOM IN ACCORDANCE WITH LOCAL CODES.

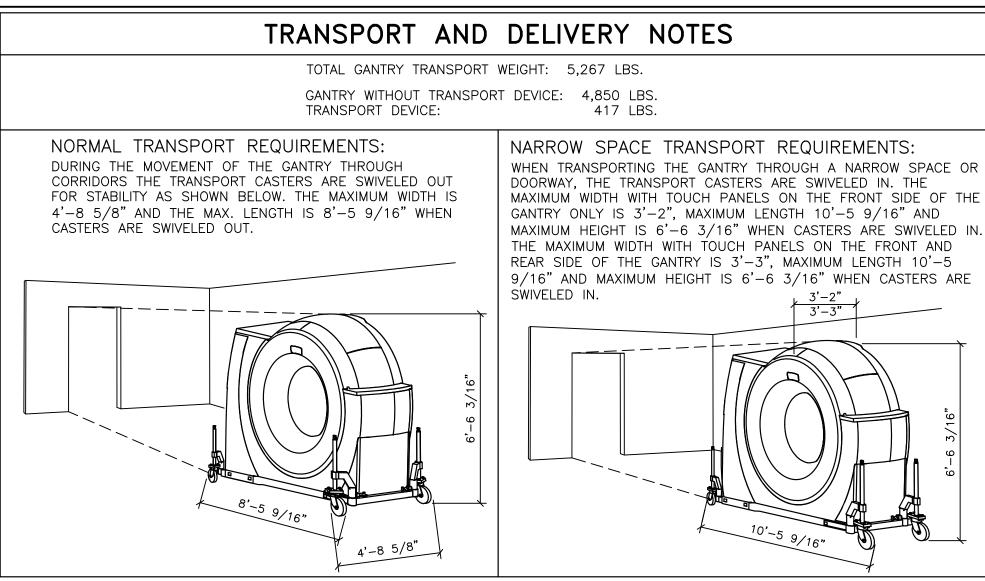
CASEWORK & ACCESSORY NOTES

1) ALL CASEWORK IS EITHER EXISTING OR IS TO BE DESIGNED, DETAILED, FURNISHED AND INSTALLED BY THE CUSTOMER AND/OR CONTRACTOR. FOLLOW DESIGN RECOMMENDATIONS INCLUDED HEREWITH, AS THEY ARE ESSENTIAL FOR THE SUCCESSFUL INSTALLATION &

2) ALL FURNITURE (CHAIRS, ETC.) FOR THE CONTROL ROOM ARE

CONSTRUCTION OR STRUCTURAL MODIFICATIONS UTILIZING X-RAY FOR DIAGNOSTIC OR THERAPEUTIC PURPOSES, MUST BE OBTAINED BY THE CUSTOMER FROM THE APPROPRIATE STATE AGENCY, IF APPLICABLE.

	E	QUIP	MENT	LEGE	ND			
NO	DESCRIPTION	SMS	WEIGHT	BTU/HR	DIMEN	ISIONS (IN	CHES)	REMARKS
		SYM	(LBS)	TO AIR	W	D	Н	
1	SYNGO ACQUISITION WORKPLACE AND STANDARD COMPONENTS		<55	1,706	6 7/8	16 9/16	15 9/16	OFF FLOOR/IN CONTAINER
2	COMPUTER CONTAINER	(MS)	77		31 1/2	31 1/2	29 1/4	HOUSING FOR ICS/IES
3	SOMATOM EDGE PLUS GANTRY	B	4,850	3,412*	93 11/16	38	78	*ADDITIONAL HEAT DISSIPATE TO WATER
4	PATIENT TABLE	(HS)	1,100	1,024	29 5/16	100 13/16	31 1/8	2000mm TABLE
5	POWER DISTRIBUTION CABINET		1,373	6,824	35 7/16	26 15/16	76 3/4	UPS LOCATED INSIDE OF PDC
6	IMAGE RECONSTRUCTION SYSTEM	RS	55	1,706	8	25 3/8	17 11/16	
$\overline{\mathcal{O}}$	CARE VISION DUAL MONITOR WITH RADIATION SHIELD	(F1)	160					CEILING MOUNTED
8	EATON SURGE PROTECTIVE DEVICE PANEL	(P)	13.5		7 1/2	6 11/16	12	WALL MOUNTED
9	3D CAMERA	300	29		29 1/4	9 5/16	5 1/4-10	
10	INTERFACE HEAT EXCHANGER	§4)	441		33 1/4	20 9/16	39 1/2	



Project Milestones To Be Completed Before Equipment Delivery	Reference Shee
Lead shielding (walls, doors, windows) complete	A-102
Climate control functioning 24 hours a day, 7 days a week	A-101
Delivery path verified	A-101
Casework complete in exam and control rooms	A-101
Floor levelness verified and within specifications	S-501
Floor thickness verified and within specifications	S-501
All conduits, troughs, and core drills are outside of the No Core Drill areas	E-102
Carevision anchor plate installed (if applicable)	S-102
Overhead injector support structure and plate installed (if applicable)	S-102
Ceiling height verfied (check min. height with options)	S-102
Cables runs checked to ensure maximum length is not exceeded	E-101
Cables inlets installed at locations per plans	E-102
Main panel and breakers installed	E-102
Contractor supplied electrical cabling and pigtails installed	E-102
Contractor supplied EPO's installed and functioning	E-102
Contractor supplied X-Ray warning light and wiring installed	E-501
Outdoor chiller unit and service switch installed (water/air option) (if applicable)	M-101
Indoor chiller unit installed (water/air option) (if applicable)	M-101
Water lines flushed and pressure tested (for hard-piping only) (if applicable)	M-101
Additional fittings/adapters ordered for hard piping (water/air option) (if applicable)	M -101
Vertical distance between indoor and outdoor unit verified (water/air option) (if applicable)	A-101
Extension cables installed for chiller if standard distance exceeded between indoor and outdoor units (water/air option) (if applicable)	M -101
Facility water verified to meet equipment requirements (Facility supplied water option) (if applicable)	M-101
Room lighting complete and functioning	A-101
All rooms containing Siemens equipment are clean and dust free	A-101
Network addresses obtained for Siemens Remote Services (SRS)	A-102

FINISHED ROOM HEIGHT FOR CT GANTRY ONLY MINIMUM 7'-6 9/16"

CAREVISION MONITOR/CEILING MOUNT SEE DETAIL ON S-102 SHEET

- ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES. - THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

- THIS SET OF PLANS REPRESENTS A COMPLETE SET OF DETAILS AND SHOULD NOT BE SEPARATED.

ARCHITECTURAL NOTES

1) ALL PRELIMINARY EQUIPMENT LAYOUTS SUBMITTED BY SIEMENS HEALTHCARE ARE BASED ON THE RECOMMENDED SPACE NECESSARY FOR THE OPERATION AND SERVICEABILITY OF THE EQUIPMENT BEING PROPOSED. SIEMENS WILL NOT SUBMIT AN EQUIPMENT LAYOUT THAT IS NOT IN THE BEST INTEREST OF BOTH THE CUSTOMER AND SIEMENS. ALL EQUIPMENT LAYOUTS ARE BASED EITHER ON AN ACTUAL SITE SURVEY OR ARCHITECTURAL DRAWINGS SUPPLIED TO SIEMENS. SIEMENS WILL NOT BE RESPONSIBLE FOR ANY ALTERATIONS THAT ENCROACH WITHIN DESIGNATED SAFETY AND SERVICE CLEARANCE ZONES AS INDICATED ON DRAWINGS (I.E., PIPE CHASES, VENTILATION DUCTS, CASEWORK, AND SOFFITS, ETC.) MADE BY THE CUSTOMER OR REQUIRED BY A CUSTOMER'S ARCHITECTURAL FIRM ONCE PRELIMINARY DRAWINGS HAVE BEEN SUBMITTED AND APPROVED. DO NOT ALTER ANY SPECIFICATIONS AND/OR DIMENSIONS WITHOUT CONTACTING AND

RECEIVING WRITTEN CONFIRMATION FROM SIEMENS PROJECT MANAGER. 2) SIEMENS HEALTHCARE IS NOT AN ARCHITECTURAL OR ENGINEERING FIRM. DRAWINGS SUPPLIED BY SIEMENS ARE NOT CONSTRUCTION DRAWINGS. THEREFORE, THESE DRAWINGS ARE TO BE USED ONLY FOR INFORMATION TO COMPLEMENT ACTUAL CONSTRUCTION DRAWINGS AVAILABLE FROM A CUSTOMER APPOINTED ARCHITECTURAL

REPRESENTATIVE OR A CUSTOMER'S ENGINEERING DESIGN GROUP. THE CUSTOMER'S ARCHITECT AND GENERAL CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE CODES AND PROFESSIONAL DESIGN REQUIREMENTS INCLUDING OSHA/NEC SAFETY CLEARANCE REQUIREMENTS IN ADDITION TO SIEMENS-REQUIRED SAFETY/SERVICE CLEARANCES SHOWN. 3) THE CUSTOMER IS RESPONSIBLE FOR ALL ROOM AND AREA

PREPARATION COSTS, PROFESSIONAL FEES, PERMITS, REPORTS, AND INSPECTION FEES.

4) EQUIPMENT WARRANTIES, EXPRESSED OR IMPLIED ON THE PART OF SIEMENS SHALL BE CONTINGENT UPON STRICT COMPLIANCE WITH THE ARCHITECTURAL, STRUCTURAL, ELECTRICAL, MECHANICAL AND RECOMMENDATIONS AND REQUIREMENTS CONTAINED IN THESE DRAWINGS, UNLESS SPECIFIED OTHERWISE.

5) ALL DIMENSIONS SHOWN ARE FROM FINISHED SURFACES UNLESS SPECIFIED OTHERWISE. 6) THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING

REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST. ACTUAL PROTECTION REQUIREMENTS SHALL BE SPECIFIED BY A REGISTERED RADIATION PHYSICIST AT CUSTOMER'S ENGAGEMENT AND EXPENSE. RESPONSIBILITY FOR ALL INFORMATION AS TO THE ROOM LOCATION, USE, AND NUMBER OF ANTICIPATED EXAMINATIONS TO BE PERFORMED PER TIME PERIOD SHALL BE PROVIDED TO THE PHYSICIST BY THE CUSTOMER. THE CUSTOMER SHALL FURTHER TAKE ALL RESPONSIBILITY IN THE COMMUNICATION AND COORDINATION OF ACTIVITIES OF THE RADIATION PHYSICIST AND THE ARCHITECTURAL REPRESENTATIVE.

7) SIEMENS HEALTHCARE SHALL BE RESPONSIBLE FOR SIEMENS EQUIPMENT INSTALLATION, CALIBRATION, CONNECTION AND INSTALLATION OF SIEMENS PROVIDED CABLES. THE CUSTOMER/ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR TERMINATIONS OF CUSTOMER/ELECTRICAL CONTRACTOR-SUPPLIED CABLES TO SIEMENS EQUIPMENT. IN THE EVENT THAT SPECIFIC TRADE RULES OR LICENSE REQUIREMENTS PROHIBIT THIS, THE CUSTOMER SHALL INITIATE THE SERVICES OF APPROVED OTHER CONTRACTORS AND PAY FOR SELECTED, APPROVED PARTIES TO PERFORM THIS WORK WITH SUPERVISION PROVIDED BY SIEMENS. CALIBRATION WHEN ACCOMPLISHED OUTSIDE OF NORMAL INSTALLATION SEQUENCES DUE TO CONTRACTOR OR TRADE RULE ACTIONS OR REQUIREMENTS SHALL BE SUPPORTED BY, CHARGED TO, AND ACCEPTED BY THE CUSTOMER AS AN ADDITIONAL INSTALLATION EXPENSE.

8) THE CUSTOMER SHALL COORDINATE WITH SIEMENS PROJECT MANAGER THE LOCATIONS AND TRAVEL OF ALL ANCILLARY EQUIPMENT TO BE CEILING OR WALL MOUNTED (I.E.: O.R. LIGHTS, MEDICAL GAS COLUMNS, PHYSIOLOGICAL MONITORING INJECTORS, CRT PLATFORMS, SPRINKLER HEADS, SMOKE DETECTORS, ELECTRICAL OUTLETS, HVAC GRILLES, SPEAKERS, AND GENERAL ROOM LIGHTING, ETC.).

9) THE GENERAL CONTRACTOR/CUSTOMER SHALL BE RESPONSIBLE FOR ALL FINAL PAINT, TOUCH-UP AND ANY COSMETIC OR TRIM WORK WHICH NEEDS TO BE OR IS REQUIRED TO BE COMPLETED AFTER THE INSTALLATION OF THE SIEMENS EQUIPMENT AND ANY ASSOCIATED SUPPORT APPARATUS.

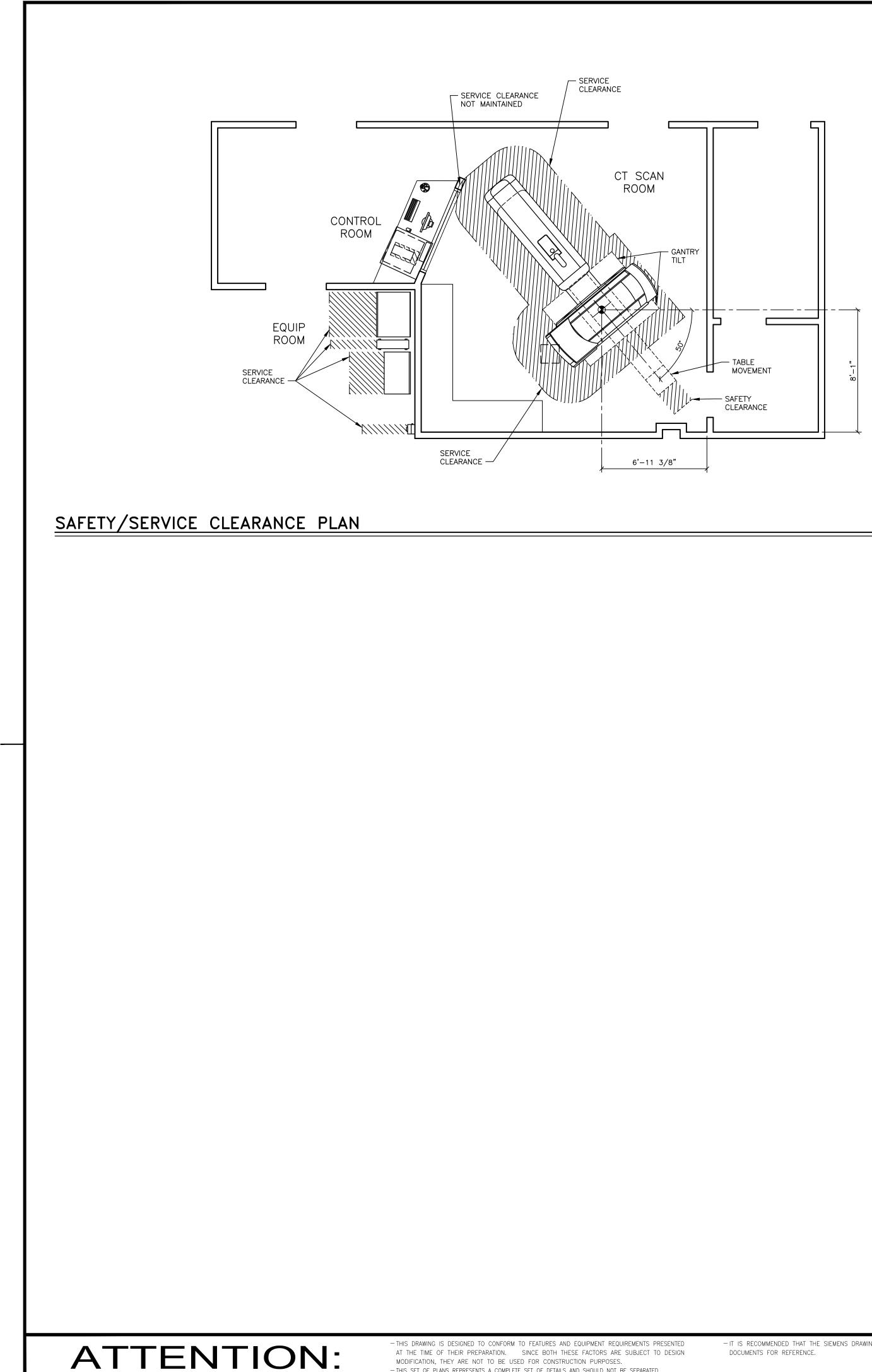
10) CUSTOMER/CONTRACTOR MUST ASSIST SIEMENS INSTALLERS WITH INSTALLATION OF EQUIPMENT ABOVE 14'-0". REFER TO THE ELECTRICAL NOTES ON SIEMENS SHEET E-101 FOR MORE DETAILS.

r					
NOISE LEVEL					
SYSTEM COMPONENT	DECIBEL LEVEL (AT 3'–3" DISTANCE)				
GANTRY	<70				
PATIENT TABLE	<60				
PDC CABINET	≤55				
IRS TOWER	<55				
HEAT EXCHANGER – WATER/AIR SPLIT	<60				
1) NOISE DEPENDS ON THE ROOM TEMPERATURE AND THE PROCESSOR LOAD.					

DESIGNATION PG NUMBER DATE SOMATOM EDGE PLUS C2-033.891.01.05.02 10.2 COMMON CT CT00-000.891.04.21.02 07.2 CONMON CT CT00-000.891.04.21.02 14.2	RESOURCE LI	ST (SMS USE ONLY))
COMMON CT CT00-000.891.04.21.02 07.2	DESIGNATION	PG NUMBER DA	TE
	SOMATOM EDGE PLUS	C2-033.891.01.05.02 10	.21
	COMMON CT	CT00-000.891.04.21.02 07	.21
COMMON CT OPTIONS CT00-000.891.03.49.02 [11.2	COMMON CT OPTIONS	CT00-000.891.03.49.02 11	.21

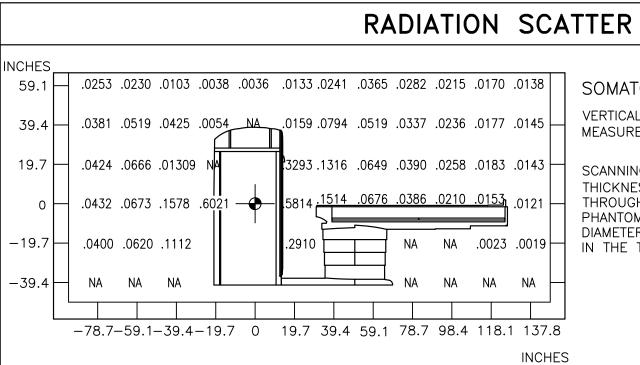
EDGE PLUS REV 16

		PROJECT MANAGEF TEL: (602) 300- VMAIL: FAX: EMAIL: JESSE.HULS		THINEERS.COM		SIEMENS
		BAR	326	60 HOSPITAL DR, JUI	ONAL I NEAU, AK 99801-74 SOMATOM EDGE PLU	
06/06/22	UPDATED ELECRICAL ROUTING	THIS TITLE B	PRODUCTION OF LOCK WITHOUT	PROJECT #:		SHEET:
05/05/22	R–101RB VERSION DATED 03/03/22 APPROVED BY CUSTOMER FOR FINALS	RESULT IN PROS	ORIZATION WILL SECUTION UNDER OF THE LAW.	2200	0096	
DATE	DESCRIPTION	ALL RIGHTS A		SHEET OF 1 7	DRAWN BY: L. BACH	
-ISSU	E BLOCK-	SCALE: AS NOTED	REF. #: 30257548	DATE: 06/06/22		



- THIS SET OF PLANS REPRESENTS A COMPLETE SET OF DETAILS AND SHOULD NOT BE SEPARATED.

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



INCHES 78.7 59.1 39.4 19.7 -19.7 -39.4 -59.1 -78.7

> -118.1 -137.8



FINISHED ROOM HEIGHT

MINIMUM 7'-6 9/16" FOR CT GANTRY ONLY CAREVISION MONITOR/CEILING MOUNT SEE DETAIL ON S-102 SHEET

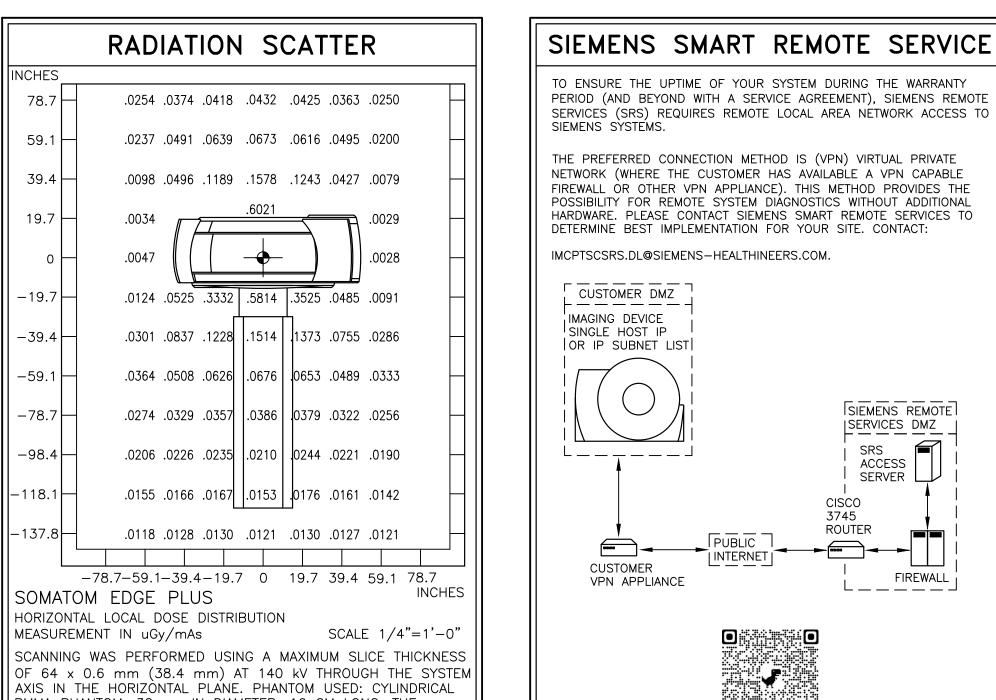
- IT IS RECOMMENDED THAT THE SIEMENS DRAWINGS BE INCORPORATED WITH THE CONSTRUCTION

-ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES. - THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

SOMATOM EDGE PLUS

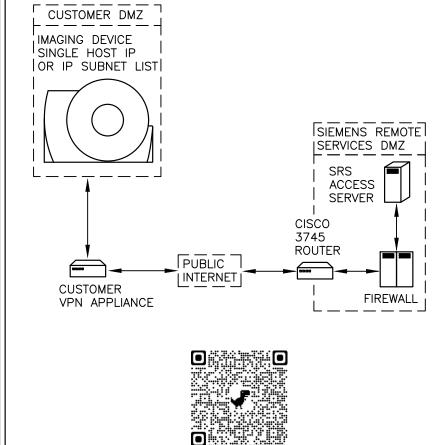
VERTICAL LOCAL DOSE DISTRIBUTION MEASUREMENT IN uGy/mAs S SCALE 1/4"=1'-0"

SCANNING WAS PERFORMED USING A MAXIMUM SLICE THICKNESS OF 64 x 0.6 mm (38.4 mm) AT 140 kV THROUGH THE SYSTEM AXIS IN THE VERTICAL PLANE. PHANTOM USED: CYLINDRICAL PMMA PHANTOM, 32 cm IN DIAMETER, 16 CM LONG. THE PHANTOM WAS CENTERED IN THE TOMOGRAPHIC PLANE.



PMMA PHANTOM, 32 cm IN DIAMETER, 16 CM LONG. THE PHANTOM WAS CENTERED IN THE TOMOGRAPHIC PLANE.

SIEMENS SMART REMOTE SERVICE

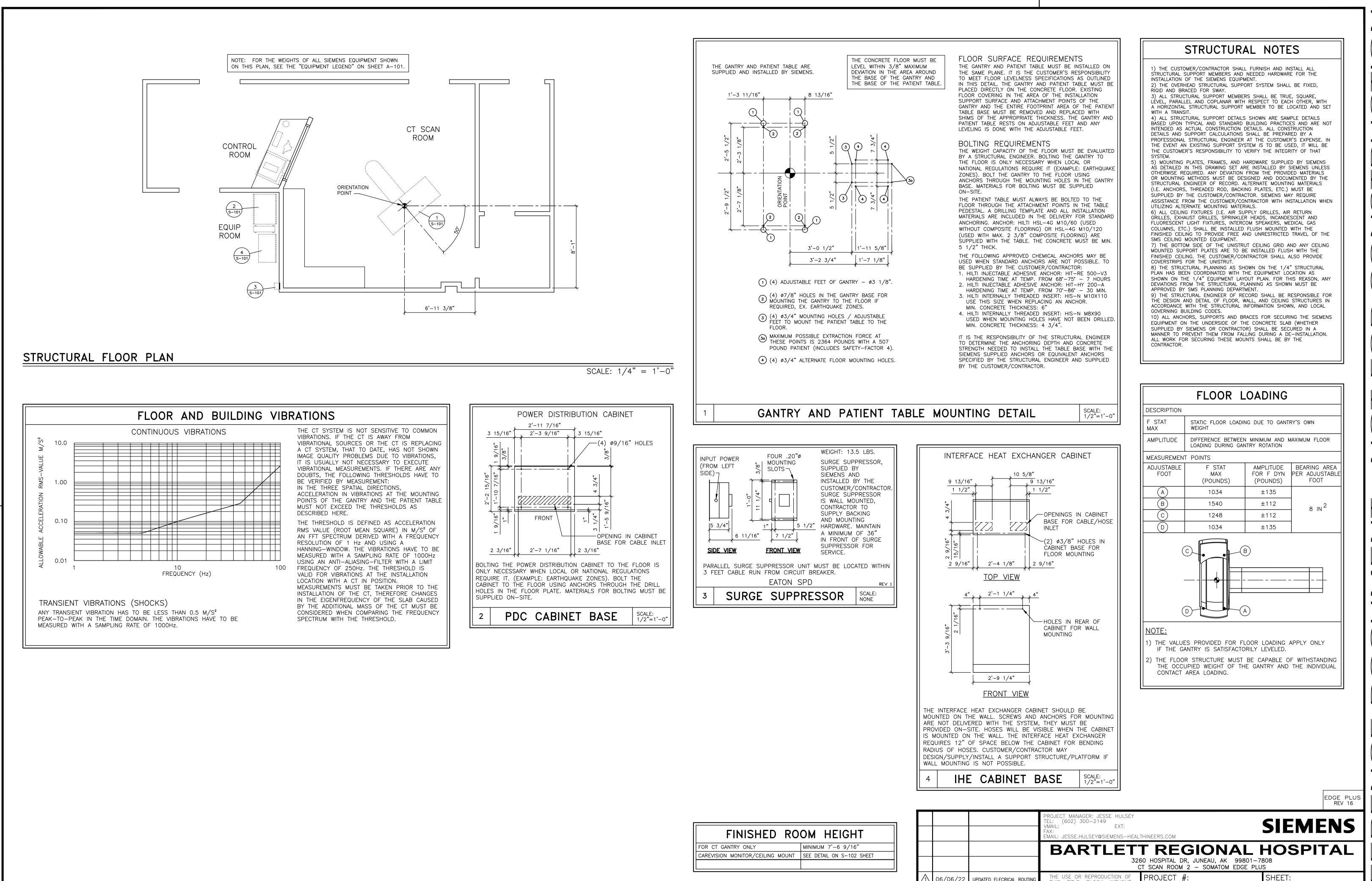


SAFETY CLEARANCE NOTE

IF THE SAFETY DISTANCES ARE NOT OBSERVED, SAFETY MEASURES IN ACCORDANCE WITH LOCAL CODES SHOULD BE UTILIZED (FOR EXAMPLE BARRIERS, WARNING SIGNS, AND SAFETY MATS).

EDGE	PLUS
	10
	EDGE REV

		PROJECT MANAGER TEL: (602) 300 VMAIL: FAX: EMAIL: JESSE.HULS		THINEERS.COM		SIEMENS
		BAR	326	60 HOSPITAL DR, J		
06/06/22	UPDATED ELECRICAL ROUTING		PRODUCTION OF LOCK WITHOUT	PROJECT #:		SHEET:
05/05/22	R–101RB VERSION DATED 03/03/22 APPROVED BY CUSTOMER FOR FINALS	RESULT IN PROS	ORIZATION WILL SECUTION UNDER OF THE LAW.	220	0096	
DATE	DESCRIPTION	ALL RIGHTS A		SHEET OF 2 7	DRAWN BY: L. BACH	
-ISSU	E BLOCK-	SCALE: AS NOTED	REF. #: 30257548	DATE: 06/06/22	2	





- THIS DRAWING IS DESIGNED TO CONFORM TO FEATURES AND EQUIPMENT REQUIREMENTS PRESENTED AT THE TIME OF THEIR PREPARATION. SINCE BOTH THESE FACTORS ARE SUBJECT TO DESIGN MODIFICATION, THEY ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES. - THIS SET OF PLANS REPRESENTS A COMPLETE SET OF DETAILS AND SHOULD NOT BE SEPARATED.

\bigtriangleup	06/06/22
\triangle	05/05/22
SYM	DATE

UPDATED ELECRICAL ROUTING

r–101rb version dated 03/03,

APPROVED BY CUSTOMER FOR FINALS

DESCRIPTION

-ISSUE BLOCK-

HIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL

RESULT IN PROSECUTION UNDER

FULL EXTENT OF THE LAW.

ALL RIGHTS ARE RESERVED.

REF. #: 30257548

SCALE: AS NOTED

2200096

DRAWN BY

. BACH

IEET

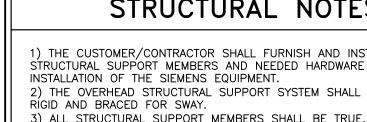
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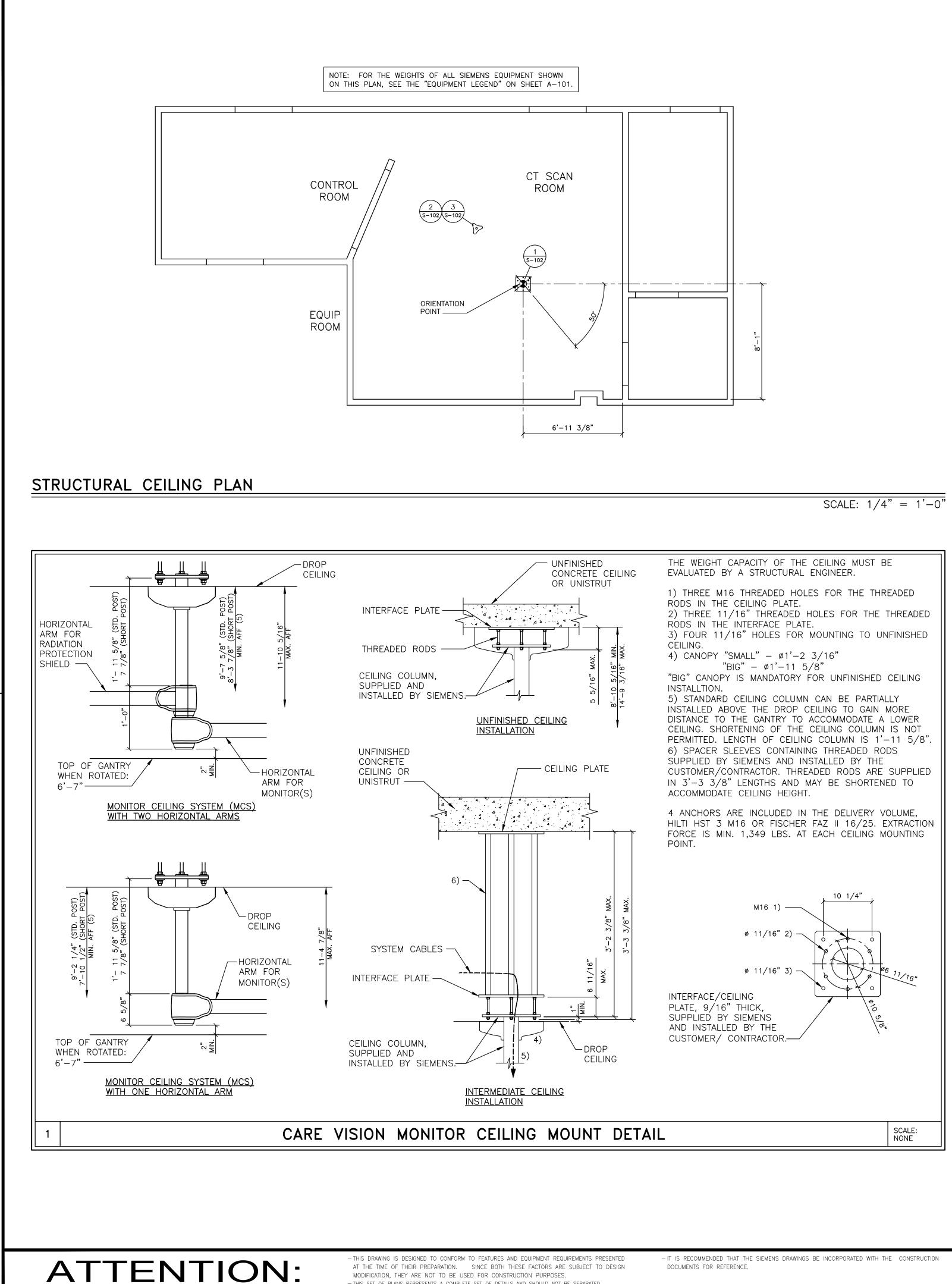
37

06/06/22

	FINISHED	ROC	OM HEIGHT
CAREVISION MONITOR/CEILING MOUNT SEE DETAIL ON S-102 SHEET	FOR CT GANTRY ONLY		MINIMUM 7'-6 9/16"
	CAREVISION MONITOR/CEILING	MOUNT	SEE DETAIL ON S-102 SHEET

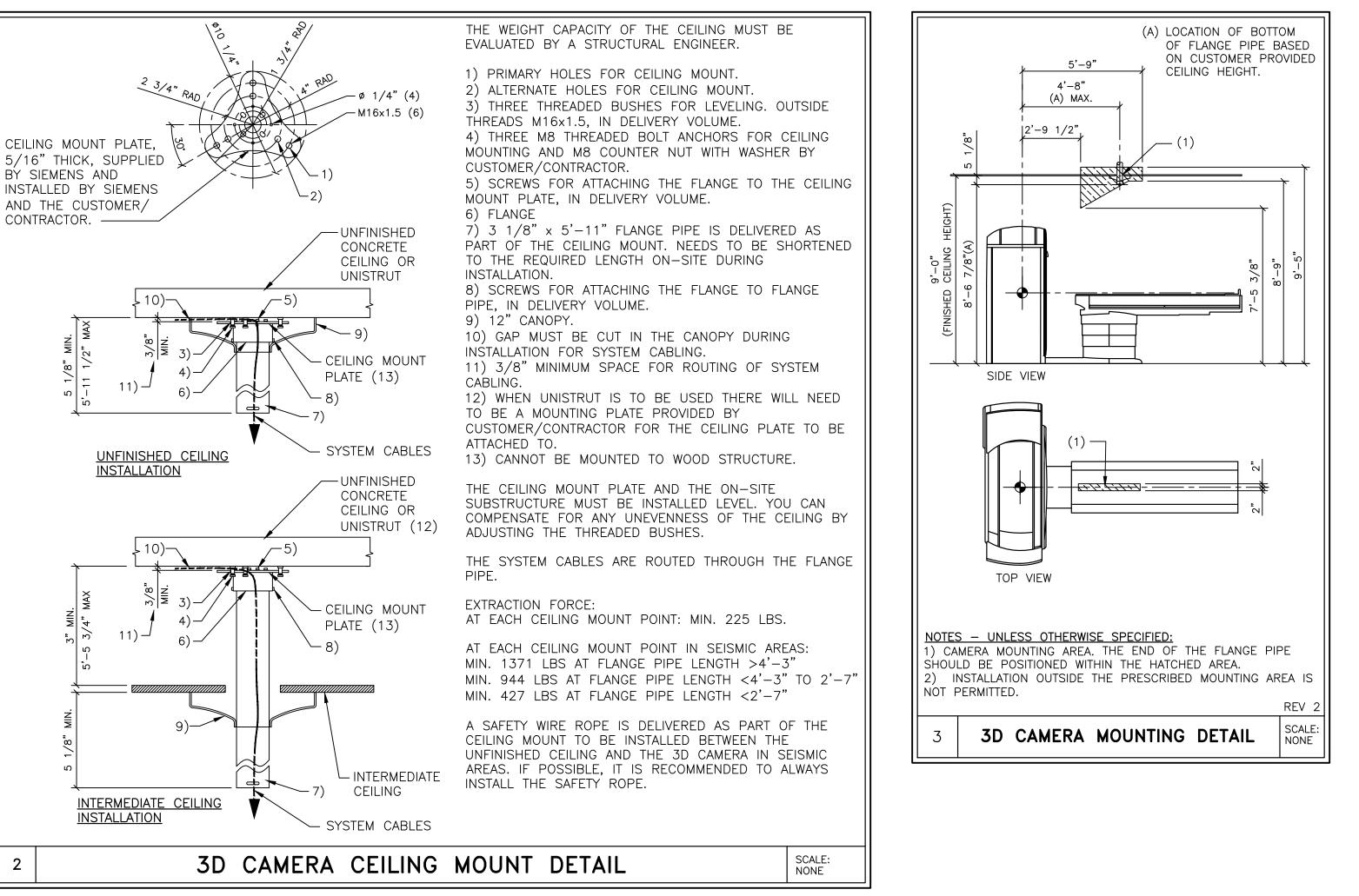
- ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES. - THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.





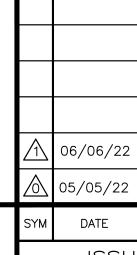
MODIFICATION, THEY ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES.

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FINISHED	ROOM	HEIGHT	
 		1	

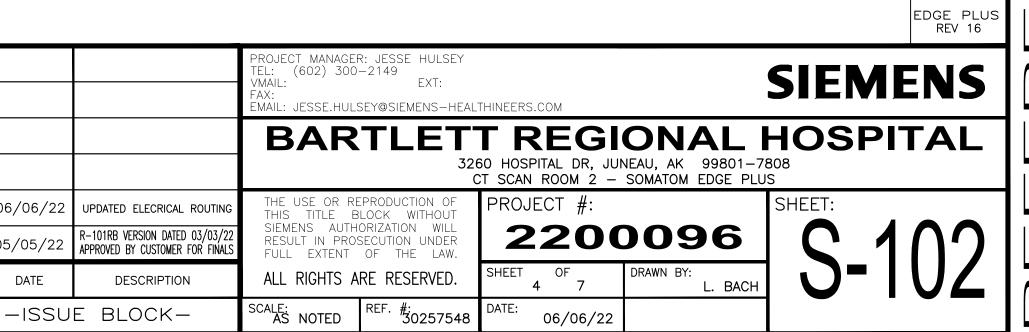
FOR CT GANTRY ONLY | MINIMUM 7'-6 9/16" CAREVISION MONITOR/CEILING MOUNT SEE DETAIL ON S-102 SHEET

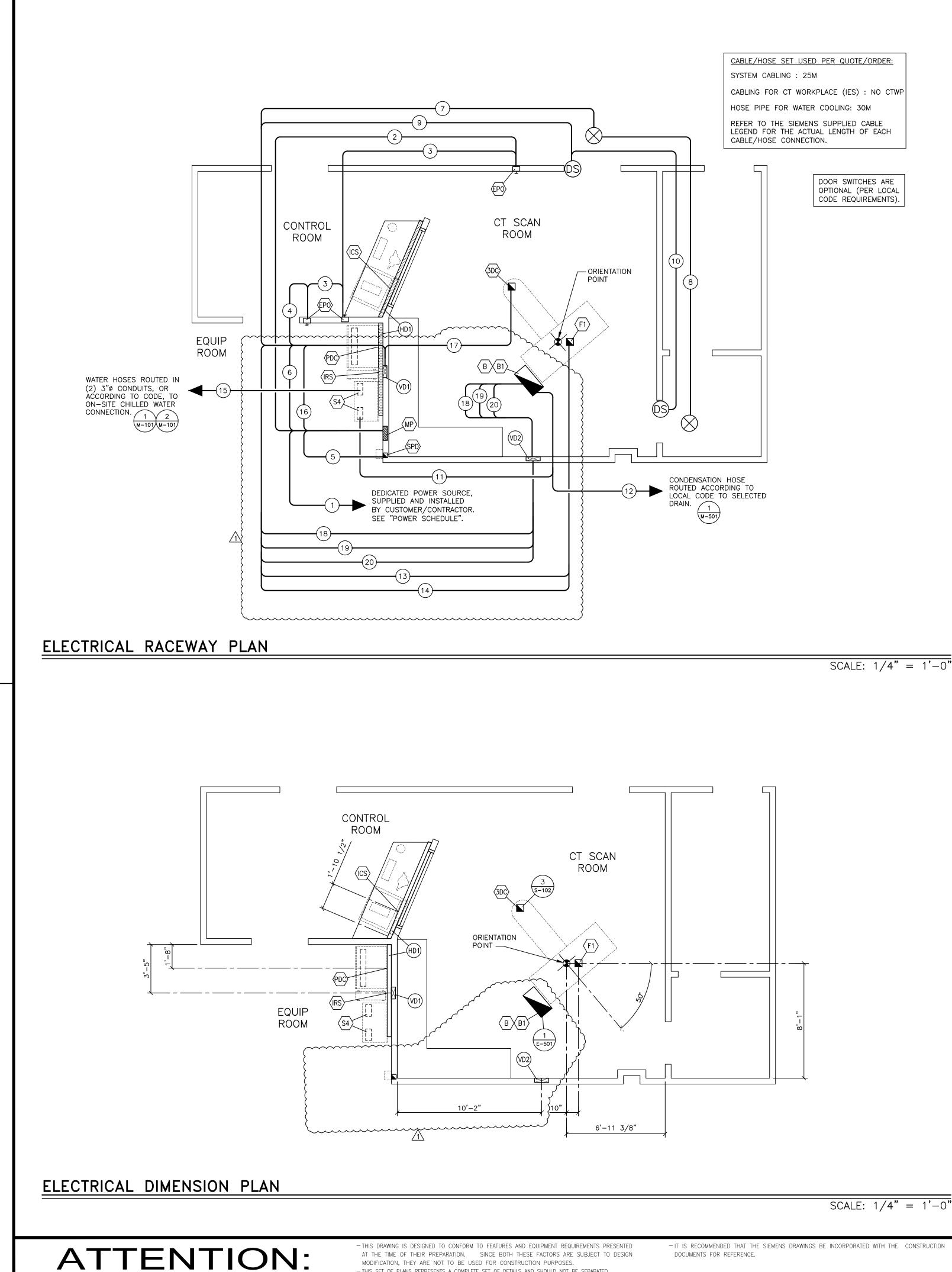


DOCUMENTS FOR REFERENCE.

- ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES. - THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

UNT	DETAIL	SCALE: NONE





- THIS SET OF PLANS REPRESENTS A COMPLETE SET OF DETAILS AND SHOULD NOT BE SEPARATED.

SYM	SIZE	DESCRIPTION	REMARKS
311/1	SIZE		REMARKS
	4.0" 0.4"	SUPPLIED AND INSTALLED BY CUSTOMER/CONTRACTOR	GANTRY CABLE ACCESS
(B)(B) (F)(D)	12" × 24"	EMERGENCY POWER OFF BUTTON. EXACT LOCATIONS TO BE DETERMINED BY	SEE POWER SCHEDULE
ሞው		CUSTOMER/CONTRACTOR.	SEE POWER SCHEDULE
(F1)	AS REQUIRED	PULL BOX MOUNTED ABOVE FINISHED CEILING.	CARE VISION MONITOR CEILING MOUNT
(LS)	12" × 4"	OPENING IN RACEWAY IN SHOWN LOCATION.	IMAGE CONSTRUCTION SYS.
(RS)	8" × 4"	OPENING IN RACEWAY IN SHOWN LOCATION.	IMAGE RECONSTRUCTION C
MP		MAIN PANEL WITH MAIN BREAKER. EXACT LOCATION DETERMINED BY CUSTOMER/CONTRACTOR.	SEE POWER SCHEDULE.
@ \$	12" × 5"	OPENING IN RACEWAY IN SHOWN LOCATION.	POWER DISTRIBUTION CAB.
 <u></u>		TWO OPENINGS IN BASE OF INTERFACE HEAT EXCHANGER.	INTERFACE HEAT EXCHANGE
\$P)	AS REQUIRED	PULL BOX MOUNTED FLUSH WITH FINISHED WALL PROVIDED WITH 2"Ø OPENING IN FINISHED COVER. THE SURGE PROTECTIVE DEVICE MUST BE LOCATED WITHIN 3 FEET CABLE RUN FROM CIRCUIT BREAKER, AT HEIGHT DETERMINED BY CUSTOMER/ CONTRACTOR.	SEE DETAIL S-101
300	AS REQUIRED	PULL BOX MOUNTED ABOVE FINISHED CEILING TO COORDINATE WITH THE LOCATION OF THE 3D CAMERA.	3D CAMERA
	10" x 3 1/2"	ELECTRICAL DUCT RUN HORIZONTALLY ON THE WALL AT THE FLOOR LINE AND SURFACE MOUNTED ON FINISHED WALL AS SHOWN. DUCT TO BE DIVIDED INTO TWO SECTIONS WITH METAL DIVIDERS. LENGTH: 14'-0".	RACEWAY
(11)(12)	12" x 3 1/2"	ELECTRICAL DUCT MOUNTED FLUSH WITH FINISHED WALL IN SHOWN LOCATION PROVIDED WITH FINISHED, REMOVABLE COVERS. TO EXTEND FROM FLOOR LINE TO END ABOVE FINISHED CEILING. DUCT TO BE DIVIDED INTO TWO SECTIONS WITH METAL DIVIDERS.	RACEWAY
1	AS REQUIRED	CONDUIT FROM POWER SOURCE TO "MP" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
2	AS REQUIRED	CONDUIT FROM "MP" TO "EPO" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
3	AS REQUIRED	CONDUIT FROM "EPO" TO "EPO" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
4	AS REQUIRED	CONDUIT FROM "EPO" TO "VD1" (PDC), SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
 5	AS REQUIRED	CONDUIT FROM "MP" TO "SPD" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
6	AS REQUIRED	CONDUIT FROM "MP" TO "VD1" (PDC), SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
$\overline{\bigcirc}$	AS REQUIRED	CONDUIT FROM "VD1" (PDC) TO "WARNING LIGHT".	
8	AS REQUIRED	CONDUIT FROM "WARNING LIGHT" TO "WARNING LIGHT".	
 9	AS REQUIRED	CONDUIT FROM "VD1" (PDC) TO "DS".	
 <u>10</u> <u>11</u>	AS REQUIRED (2) 3"ø	CONDUIT FROM "DS" TO "DS". CONDUITS FROM "S4" TO "B1". TO CONTAIN SIEMENS COOLING WATER HOSES WITH A MINIMUM	MAX. CONDUIT LENGTH
 (12)	1 <i>"ø</i>	6" BENDING RADIUS. CONDUIT, IF REQUIRED PER LOCAL CODE, FOR CONDENSATION HOSE FROM "B1" TO SELECTED DRAIN TYPE. THE MINIMUM BENDING RADIUS IS 1 3/16".	96'-0" SEE SHEET M-10 MAX. CONDUIT LENGTH 32'-9"
(13)	2-1/2"ø	CONDUIT FROM "VD1" (ICS) TO "F1".	MAX. CONDUIT LENGTH
(14)	2-1/2 " ø	CONDUIT FROM "VD1" (PDC) TO "F1".	MAX. CONDUIT LENGTH
(15)	(2) 3 " ø	CONDUITS, IF REQUIRED PER LOCAL CODE, FROM "S4" TO ON-SITE WATER CONNECTION. TO CONTAIN SIEMENS COOLING WATER HOSES WITH A MINIMUM 6" BENDING RADIUS.	MAX. CONDUIT LENGTH 16'-0" SEE SHEET M-10
(16)	AS REQUIRED	CONDUIT FROM "MP" TO "VD1" (S4), SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
17	2-1/2"ø	CONDUIT FROM "VD1" (PDC) TO "3DC".	MAX. CONDUIT LENGTH 78'-0"
(18)	(3) 3"ø	CONDUITS FROM "VD1" (PDC) TO "VD2" TO "B" WITH A MINIMUM 6" BENDING RADIUS.	MAX. CONDUIT LENGTH
 (19)	3"ø	CONDUIT FROM "B" TO "VD2" TO "VD1" (ICS).	MAX. CONDUIT LENGTH
 20	1-1/2"ø	CONDUIT FROM "B" TO "VD2" TO "VD1" (IRS).	MAX. CONDUIT LENGTH

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

	SYMBOLS
	ALL MAY NOT APPLY
	MAIN PANEL OR ENCLOSURE BY CUSTOMER/CONTRACTOR
	OPENING IN RACEWAY OR TRENCHDUCT
	PULLBOX IN (FLOOR/WALL/CEILING)
	OPENING IN ACCESS FLOORING
\otimes	WARNING LIGHT (X-RAY ON)
DS	DOOR SAFETY SWITCH
Ю	(EPO) EMERGENCY POWER OFF BUTTON
	TRENCHDUCT
[]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]	CEILING DUCT
[]	UNDER FLOOR DUCT
	SURFACE DUCT
\boxtimes	VERTICAL DUCT
	ETHERNET CONNECTION TO CUSTOMER'S INFORMATION SYSTEMS NETWORK (VERIFY WITH SMS PROJECT MANAGER).
\Rightarrow	110 VOLT, 20 AMP, HOSPITAL GRADE DUPLEX OUTLET UNLESS OTHERWISE STATED.
\blacksquare	110 VOLT, 20 AMP, HOSPITAL GRADE QUAD OUTLET
	SPECIAL PURPOSE RECEPTACLE

CO
IF SIT VALUE ELECT LISTEE IF DU
IS THI RECAL
COND VERTI FLOOF

	POC
	IT I Coi The Spe
L	

FINISHED ROO	DM HEIGHT		
FOR CT GANTRY ONLY	MINIMUM 7'-6 9/16"		
CAREVISION MONITOR/CEILING MOUNT	SEE DETAIL ON S-102 SHEET		
		Δ	06/0
		\triangle	05/0
– ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FRO – THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDIN		SYM	D
EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR	R CONSULTING WITH A REGISTERED RADIATION		

- IT IS RECOMMENDED THAT THE SIEMENS DRAWINGS BE INCORPORATED WITH THE CONSTRUCTION

- ALL DIMENSIONS SHOW - THIS DRAWING DOES N EQUIPMENT. THE (PHYSICIST TO SPECIFY RADIATION PROTECTION.

ELECTRICAL NOTES	
1) COMPLIANCE: ELECTRICAL WORK SHALL BE IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE (NFPA-70), O.S.H.A. REGULATIONS, AS WELL AS APPLICABLE REGULATIONS OF CITY, COUNTY, STATE AND FEDERAL AGENCIES.	-
PROVIDE MATERIALS AND EQUIPMENT THAT COMPLY WITH ANSI, IEEE AND NEMA STANDARDS AND ARE U.L. LISTED AND LABELED. THE CUSTOMER'S/CONTRACTOR'S WORK AND ALL EQUIPMENT INSTALLED SHALL COMPLY WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE	
ADOPTED/ENFORCED BY THE AUTHORITY HAVING JURISDICTION. 2) QUALITY ASSURANCE: THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD TO INSURE THAT THE NEW WORK WILL FIT INTO	
THE EXISTING STRUCTURE AS SHOWN ON THE DRAWINGS. SHOULD ANY CONDITIONS EXIST OR BE DISCOVERED THAT PREVENT THE INSTALLATION OF WORK AS SHOWN, THE CONTRACTOR SHALL NOTIFY THE OWNER'S	- -
REPRESENTATIVE PRIOR TO FABRICATION OF EQUIPMENT, OR THE PERFORMANCE OF ANY WORK THAT MAY BE AFFECTED. DO NOT ALTER DRAWINGS, DIMENSIONS, OR SPECIFICATIONS IN ANY WAY WITHOUT	-
CONTACTING AND RECEIVING WRITTEN CONFIRMATION FROM SIEMENS PROJECT MANAGER. ALL DIMENSIONS ARE FROM FINISHED SURFACES. CONDUIT AND PULL BOXES TO BE INSTALLED BY THE CUSTOMER/CONTRACTOR WITH	
LOCATIONS BEING FIELD VERIFIED BY THE SIEMENS PROJECT MANAGER. 3) POWER SUPPLY SOURCE: POWER SUPPLIES FOR SIEMENS HEALTHCARE EQUIPMENT SHALL BE FROM A MEDICAL IMAGING PANEL OR BUILDING	
SERVICE EQUIPMENT THAT IS A GROUNDED 3 OR 4-WIRE 'WYE' SOURCE PER THE SPECIFIC EQUIPMENT OPERATION REQUIREMENTS. A DEDICATED CIRCUIT SHALL BE PROVIDED THAT IS KEPT ENTIRELY FREE AND INDEPENDENT OF	
ALL OTHER BUILDING WIRING. NO ELEVATORS, GENERATORS, PUMPS, HVAC OR SIMILAR EQUIPMENT SHALL BE CONNECTED TO THE SAME CIRCUIT OR MEDICAL IMAGING PANEL THAT SERVES THE SIEMENS HEALTHCARE EQUIPMENT. IF THE POWER SUPPLY SOURCE DOES NOT MEET THE SPECIFIC SIEMENS	
EQUIPMENT POWER REQUIREMENTS, THE CONTRACTOR SHALL PROVIDE THE NECESSARY EQUIPMENT REQUIRED TO ESTABLISH THE POWER SUPPLY IN ACCORDANCE WITH THE REQUIRED POWER SUPPLY PARAMETERS OF THE	
SIEMENS EQUIPMENT. THE CONTRACTOR SHALL COORDINATE THIS WORK WITH THE CUSTOMER AND/OR UTILITY COMPANY FIELD REPRESENTATIVE. 4) WORK FURNISHED BY CUSTOMER/CONTRACTOR: WORK NOT PROVIDED BY	
SÍEMENS HEALTHCARE BUT SHOWN ON DRAWINGS TO BE FURNISHED AND INSTALLED BY CUSTOMER/CONTRACTOR INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING, UNLESS NOTED OTHERWISE: ELECTRICAL RACEWAYS AND	
DUCTS, WIRING TROUGHS, PULL BOXES, CONDUITS, CIRCUIT BREAKERS, ACCESS PANELS, EMERGENCY OFF BUTTONS, DOOR SWITCHES, WARNING LIGHTS, WIRING, WIRING DEVICES, CONNECTORS, LIGHTING EQUIPMENT AND	(
GROUNDING. 5) RACEWAY AND CONDUIT NOTES: ALL CONDUITS SHALL BE INSTALLED IN COMPLIANCE WITH THE CURRENT ENFORCED EDITION OF THE NATIONAL ELECTRICAL CODE.	
CONDUIT BODIES SHALL NOT BE USED. WHERE A CONDUIT ENTERS A BOX, FITTING, OR OTHER ENCLOSURE, AN INSULATED THROAT CONNECTOR SHALL BE PROVIDED TO PROTECT THE WIRE FROM ABRASION. ALL	ſ
CONNECTORS FOR EMT SHALL BE COMPRESSION OR DOUBLE SET SCREW TYPE. KEEP RACEWAYS AT LEAST 6 INCHES AWAY FROM PARALLEL RUNS OF	
FLUES OR STEAM AND HOT WATER PIPES. INSTALL RACEWAY RUNS ABOVE WATER AND STEAM PIPES PROVIDED THAT CABLE RUN DISTANCES ARE MAINTAINED. USE TEMPORARY CLOSURES TO PREVENT FOREIGN MATTER FROM	
ENTERING RACEWAY. CONDUIT RUNS ARE SHOWN SCHEMATICALLY. INSTALL CONDUIT WITH A MINIMUM OF BENDS IN THE SHORTEST PRACTICAL DISTANCE CONSIDERING THE BUILDING CONSTRUCTION AND OBSTRUCTIONS, EXCEPT AS OTHERWISE	
INDICATED. THE CONTRACTOR SHALL MAKE CERTAIN THAT ANY CONDUIT/RACEWAY RUNS CONTAINING SIEMENS HEALTHCARE CABLES DO NOT EXCEED THE SPECIFIED MAXIMUM DISTANCES AS SHOWN ON THE ELECTRICAL	
DETAILS. LISTED CONDUIT SIZES FOR SIEMENS-SUPPLIED CABLES MUST BE MAINTAINED IN ORDER TO ENABLE THE TOTAL CABLE BUNDLE INCLUDING CONNECTORS TO BE PULLED THROUGH WITHOUT DAMAGE.	∣⊦
PROVIDE ENCLOSED METAL WIRE DUCT RACEWAY SYSTEM WHERE SHOWN ON DRAWINGS WITH DIVIDERS TO SEPARATE THE DUCT INTO TWO OR THREE SEPARATE COMPARTMENTS AS SHOWN ON THE SIEMENS PLANS (FOR POWER	
AND SIEMENS HEALTHCARE CABLING). DIVIDERS AND CROSSOVER PIECES TO BE PROVIDED AS NECESSARY. THE CABLE TO CABLE AS WELL AS THE CIRCUIT TO CIRCUIT SEPARATION REQUIREMENT WAS EVALUATED DURING THE	
UL SYSTEM CERTIFICATION OF THE EQUIPMENT. ADDITIONAL SEPARATION OF THE SYSTEM CABLE ASSEMBLIES INTO SEPARATE OR PARTITIONED RACEWAYS, UNLESS OTHERWISE NOTED, IS NOT NECESSARY TO INSURE SEPARATION OF CIRCUITS.	
PROVIDE WIRE DUCT/RACEWAY WITH ACCESSIBLE REMOVABLE COVERS. LOCATIONS OF BUILDING MATERIAL OPENINGS (I.E. ACCESS PANELS) TO BE CUT IN FIELD ARE TO BE COORDINATED WITH THE DRAWING REQUIRMENTS	4
AND BUILDING STRCTURE. THOSE THAT ARE NOT INDICATED OR INTERFER WITH BUILDING ELEMENTS SHALL BE COORDINATED WITH SIEMENS PROJECT MANAGER. ELECTRICAL PULL BOXES AND RACEWAY COVERS SHALL BE	
INSTALLED IN A MANNER TO ALLOW ACCESSIBILITY FOR INSTALLATION AND MAINTENANCE. CONTRACTORS MUST PROVIDE PULL STRINGS FOR ALL CONDUIT AND WIRE DUCT/RACEWAY. IN-FLOOR TRENCH DUCT AND FLUSH FLOOR	
BOXES SHALL BE PROVIDED WITH FULLY GASKETED REMOVABLE COVERS. WHEN JUNCTION BOXES AND WIRE DUCT/RACEWAY ARE MOUNTED HIGHER THAN 14 FEET ABOVE FINISHED FLOOR, THE ELECTRICAL CONTRACTOR	
SHALL PROVIDE TWO ELECTRICIANS TO HELP THE SIEMENS INSTALLERS PULL SIEMENS SUPPLIED CABLES AT CUSTOMER'S EXPENSE. WHEN JUNCTION BOXES AND WIRE DUCT/RACEWAY ARE MOUNTED ABOVE A HARD CEILING (I.E.	
SHEET ROCK), A 24" x 24" ACCESS PANEL IS REQUIRED AT EACH JUNCTION BOX AND WITHIN 2 FEET OF EACH RACEWAY TRANSITION (SUCH AS A 90 DEGREE ELBOW OR TEE) IN DUCT/RACEWAY. THERE MUST BE FREE AND	
CLEAR ACCESS TO JUNCTION BOXES AND WIRE DUCT/RACEWAY. WHEN ACCESS PANELS ARE LOCATED MORE THAN 3 FEET FROM JUNCTION BOXES AND WIRE DUCT/RACEWAY THE ELECTRICAL CONTRACTOR SHALL PROVIDE TWO	
ELECTRICIANS TÓ HELP SIEMENS INSTALLERS PULL SIEMENS SUPPLIED CABLES AT CUSTOMER'S EXPENSE. 6) WIRING: ALL WIRING INSTALLED SHALL BE 600 VOLT CLASS, STRANDED	
TYPE THHN/THWN-2, SINGLE CONDUCTOR ANNEALED COPPER FOR A MAXIMUM OPERATING TEMPERATURE OF 90° C (194° F), SIZED AS INDICATED, INSTALLED IN METAL RACEWAYS. THE CUSTOMER/CONTRACTOR SHALL LEAVE A	- 1-
MINIMUM 10 FEET OF WIRE TAILS AT ALL OUTLET POINTS WITH WIRE IDENTIFICATION TAGGED AT BOTH ENDS FOR FINAL CONNECTION BY THE CUSTOMER/ELECTRICAL CONTRACTOR.	-
7) SHORT CIRCUIT REQUIREMENTS: ALL CIRCUIT BREAKERS SUPPLIED FOR THE SIEMENS EQUIPMENT REQUIREMENTS SHALL BE RATED HIGHER THAN THE SHORT CIRCUIT AVAILABLE AT THE TERMINALS OF THE ELECTRICAL EQUIPMENT AS DETERMINED BY THE ENGINEER OF RECORD, BUT NOT LESS THAN	
35,000A RMS SYMMETRICAL AT 480V, 3-PHASE, 60 HERTZ. THE CONTRACTOR SHALL OBTAIN THE CORRECT SHORT CIRCUIT CURRENT RATING OF ALL THE NEW EQUIPMENT FOR INSTALLATION FROM THE ENGINEER OF RECORD.	
CABLE PROTECTION	
CABLES ARE NOT PLENUM RATED. ALL CABLES MUST BE ROUTED IN CABLE DUCTS OR CABLE CONDUITS.	
IN CABLE DUCTS OR CABLE CONDUTS.	
HINEERS.COM	
REGIONAL HOSPITAI	

NDUIT LENGTH CALCULATIONS E SPECIFIC CONDITIONS EXCEED THE FOLLOWING ASSUMED

ES THEN ADDITIONAL LENGTH MUST BE SUBTRACTED BY THE FRICAL CONTRACTOR FROM THE MAXIMUM CONDUIT LENGTHS JCT LOCATIONS ARE ALTERED FROM THE SHOWN LAYOUT IT E ELECTRICAL CONTRACTORS RESPONSIBILITY TO

LCULATE THE MAXIMUM CONDUIT LENGTHS. IMED VALUES USED IN CALCULATING STATED MAXIMUM DUIT LENGTHS:

FICAL DUCTS - 10'-0" R PENETRATIONS - 3'-0"

POWER QUALITY

OR POWER WILL ALTER EQUIPMENT PERFORMANCE IS IN THE CUSTOMER'S INTEREST THAT THE ELECTRICAL ONTRACTOR BE RESPONSIBLE FOR TESTING AND VERIFYING THAT E EQUIPMENT POWER SUPPLY COMPLIES WITH THE SIEMENS FCIFICATIONS.

INSTALLED IN METAL RACEWAYS. THE CUSTOMER/CONTRACTOR SHALL MINIMUM 10 FEET OF WIRE TAILS AT ALL OUTLET POINTS WITH WIRE IDENTIFICATION TAGGED AT BOTH ENDS FOR FINAL CONNECTION BY TI CUSTOMER/ELECTRICAL CONTRACTOR. 7) SHORT CIRCUIT REQUIREMENTS: ALL CIRCUIT BREAKERS SUPPLIED THE SIEMENS EQUIPMENT REQUIREMENTS SHALL BE RATED HIGHER TI SHORT CIRCUIT AVAILABLE AT THE TERMINALS OF THE ELECTRICAL EQU

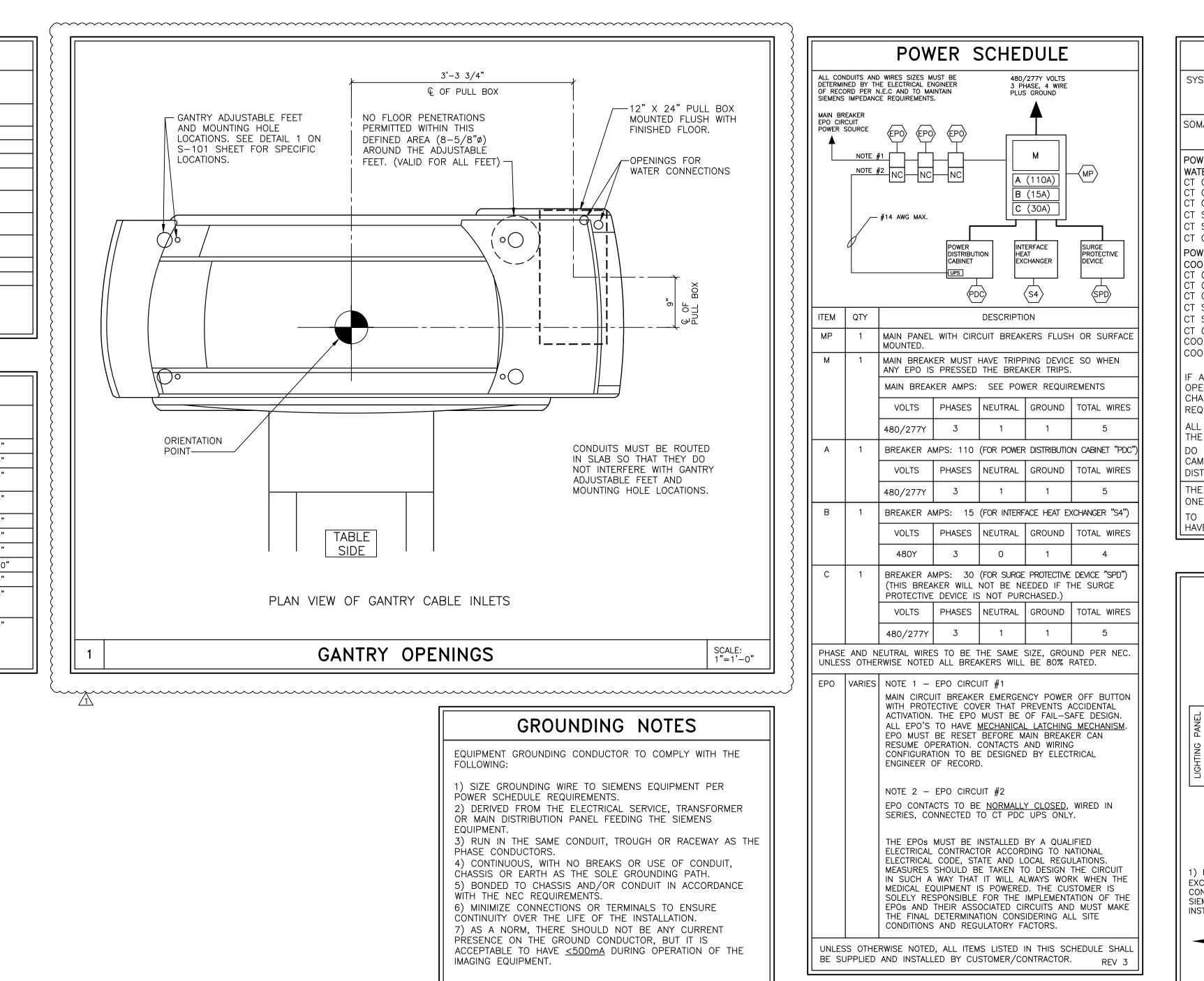
CABLE PROTECTION

COJECT MANAGER: JESSE HULSEY SIEM EXT: /MAII MAIL: JESSE.HULSEY@SIEMENS-HEALTHINEERS.COM BARTLETT REGIONAL HOSPITAL 3260 HOSPITAL DR, JUNEAU, AK 99801-7808 CT SCAN ROOM 2 - SOMATOM EDGE PLUS PROJECT #: HE USE OR REPRODUCTION OF HEET: /06/22 UPDATED ELECRICAL ROUTING HIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL 2200096 r–101rb version dated 03/03, RESULT IN PROSECUTION UNDER /05/22 APPROVED BY CUSTOMER FOR FINALS FULL EXTENT OF THE LAW. HEET DRAWN BY ALL RIGHTS ARE RESERVED. DATE DESCRIPTION 57 BACH REF. #: 30257548 SCALE: AS NOTED -ISSUE BLOCK-DATE: 06/06/22

			NTRACTOR SUPPLIED CABLES	
FROM	VIA	то	DESCRIPTION	REMARKS
POWER SOURCE	1	MP	3-PHASE CONDUCTORS, 1 NEUTRAL, 1 GROUND. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDU
MP	2	EPO	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDU
EPO	3	EPO	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDU
EPO	4,VD1,HD1	PDC	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDU
MP	5	SPD	3-PHASE CONDUCTORS, 1 NEUTRAL AND 1 GROUND. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDU
MP	6,VD1,HD1	PDC	3 PHASE CONDUCTORS, 1 NEUTRAL AND 1 GROUND. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDU
PDC	HD1,VD1,7	WARNING LIGHT	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	
WARNING LIGHT	8	WARNING LIGHT	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	
PDC	HD1,VD1,9	DS	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	
DS	10	DS	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	
MP	16,VD1,HD1	S4	3 PHASE CONDUCTORS AND 1 ISOLATED GROUND. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDU

			S	IEMENS SUPPLIED CABLES	
	FROM	VIA	то	DESCRIPTION	REMARKS
	PDC	HD1	ICS	POWER CABLE; W8:300V, W12:300V, W34:GND DATA CABLE; W61:30V, W63:30V	MAXIMUM LENGTH 82'-0"
	PDC	HD1	IRS	POWER CABLE; W7:300V, W33:GND DATA CABLE; W57:30V, W65:30V	MAXIMUM LENGTH 82'-0"
\triangle	PDC	HD1,VD1,18,VD2,18	В	POWER CABLE; W1:600V, W2:600V, W3:600V, W4:HIGH VOLTAGE, W9:300V, W30:GND DATA CABLE; W53:30V, W54:30V, W59:30V, W74:FIBER	MAXIMUM LENGTH 82'-0"
\triangle	В	19,VD2,19,VD1,HD1	ICS	CONTROL CABLE; W51:30V DATA CABLE; W341:24V DISPLAY PORT CABLE; W020:5V	MAXIMUM LENGTH 82'-0"
\triangle	В	20,VD2,20,VD1,HD1	IRS	DATA CABLE; W70:FIBER, W98:30V	MAXIMUM LENGTH 82'-0"
	S4	11	B1	WATER HOSES	MAXIMUM LENGTH 96'-0"
	B1	12	DRAIN	CONDENSATION HOSE	MAXIMUM LENGTH 32'-9"
	ICS	HD1,VD1,13	F1	CONTROL CABLE	MAXIMUM LENGTH 104'-0"
	PDC	HD1,VD1,14	F1	POWER CABLE	MAXIMUM LENGTH 68'-0"
	ON-SITE WATER CONN.	15	S4	WATER HOSES	MAXIMUM LENGTH 16'-0"
	PDC	HD1,VD1,17	3DC	POWER CABLE:230V, GRD, ETH:24V	MAXIMUM LENGTH 88'-0"





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\triangle	0
SYM	

 IT IS RECOMMENDED THAT THE SIEMENS DRAWINGS BE INCORPORATED WITH THE CONSTRUCTION DOCUMENTS FOR REFERENCE. ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES.
 THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

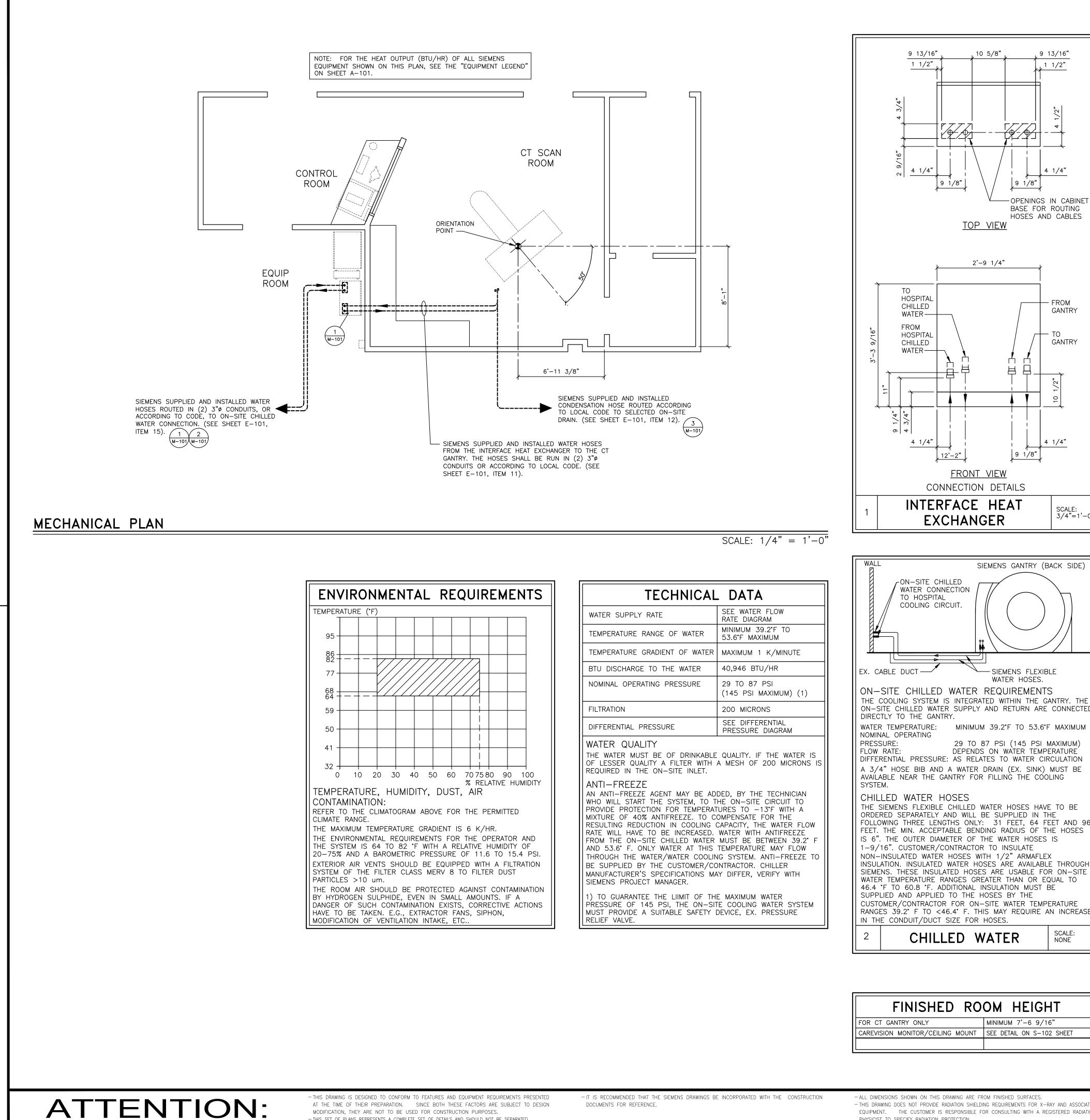
POWER	R REQ	UIREM	ENTS	
SYSTEM	SUPPLY VOLTAGE (VOLTS)	POWER CONSUMPTION (kVA)	SUPPLY IMPEDANCE (mΩ)	MAIN CIRCUIT BREAKER (AMPS)
SOMATOM EDGE PLUS	3ø 480/277Y ±10%	SEE BELOW	≤ 200	125
POWER CONSUMPTION (WATER OR AIR COOLED CT OPERATING FOR 3 S CT OPERATING AT 35 S CT OPERATING AT 100 CT SYSTEM ON (STAND CT SYSTEM ON (COMP CT GANTRY OFF (EVA C POWER CONSUMPTION (COOLING SYSTEM) CT OPERATING AT 35 S CT OPERATING AT 35 S CT OPERATING AT 35 S CT OPERATING AT 100 CT SYSTEM ON (STAND CT SYSTEM ON (STAND CT SYSTEM ON (COMP CT GANTRY OFF (EVA C COOLING SYSTEM - 16 COOLING SYSTEM FLOW	SYSTEM) SEC – 140 SEC – 93 SEC – 43 -BY) – 4 ON) – 2.5 DN) – 1.7 (WITH OPTIC SEC – 140 SEC – 93 SEC – 93 SEC – 43 ON) – 2.5 ON) – 2.5 ON) – 1.7 WVA – 1.7) kVA kVA kVA 5 kVA 5 kVA DNAL WATER/ 0 kVA kVA kVA kVA kVA	AIR SPLIT)
IF AN ON-SITE TRANSF OPERATING VOLTAGE, IT CHARACTERISTICS TO M REQUIREMENTS (TRANSF ALL STANDARD COMPON THE POWER DISTRIBUTION DO NOT CONNECT NON CAMERAS OR FILM PRO DISTRIBUTION SYSTEM (THE EXAMINATION ROOM ONE EMERGENCY POWE TO ENSURE SATISFACTO HAVE A DEDICATED PRO	MUST BE AINTAIN SU FORMER AN NENTS AND ON SYSTEM -SIEMENS OCESSORS (PDS). M SHOULD R OFF (PA DRY SYSTEM	OF SUFFICIE PPLY VOLTAC D CONDUCTO ADD-ONS A COMPONENTS TO THE SIEM BE EQUIPPEI NIC) BUTTON 0 OPERATION	INT CAPACIT E AND IMP DRS). RE SUPPLIE S SUCH AS ENS POWER O WITH AT THE PDS	Y AND EDENCE ED VIA LASER
INCANDESCENT, "X-RAY ON" WARNING LIGHT HOT HOT NEUTRAL	ABOY OUTS	T/LED VE ROOM ENTH SIDE SCAN ROU AY (1) VAC ULLY OPEN	ЭМ #14 AV МАХ.	/
1) RELAY WITH A 24 VOI EXCEED 5 AMPS) SUPPLI CONTRACTOR. ALL ITEMS SIEMENS CABINET ARE TO INSTALLED BY CONTRACTO BY CUSTOMER/	ED BY ELEC EXTERNAL T D BE SUPPL DR.	TRICAL O THE IED AND		NILS PLIED /OLTS DOOR CH /) WG OWER TION OC) OR ECTION

X-RAY WARNING LIGHTS AND DOOR SWITCH SCHEMATIC

AUXILIARY WIRING

SCALE: NONE

									EDGE PLUS REV 16
			PROJECT MANAGEF TEL: (602) 300 VMAIL: FAX: EMAIL: JESSE.HULS		THINEERS.	СОМ		SIEME	ENS
			BAR	326	60 HOSP	ITAL DR, JUN	ONAL I NEAU, AK 99801-78 SOMATOM EDGE PLU	308	ΓAL
7	06/06/22	UPDATED ELECRICAL ROUTING	THIS TITLE B	PRODUCTION OF LOCK WITHOUT		ECT #:		SHEET:	
7	05/05/22	R-101RB VERSION DATED 03/03/22 APPROVED BY CUSTOMER FOR FINALS		ORIZATION WILL SECUTION UNDER OF THE LAW.	2	200	096		$\Lambda 1$
٨	DATE	DESCRIPTION		RE RESERVED.	SHEET 6	OF 5 7	DRAWN BY: L. BACH		UΙ
	-ISSU	E BLOCK-	SCALE: AS NOTED	REF. #: 30257548	DATE:	06/06/22			



AT THE TIME OF THEIR PREPARATION. SINCE BOTH THESE FACTORS ARE SUBJECT TO DESIGN

MODIFICATION, THEY ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES.

- THIS SET OF PLANS REPRESENTS A COMPLETE SET OF DETAILS AND SHOULD NOT BE SEPARATED.

9 13/16"

_1 1/2"

4 1/4"

- FROM

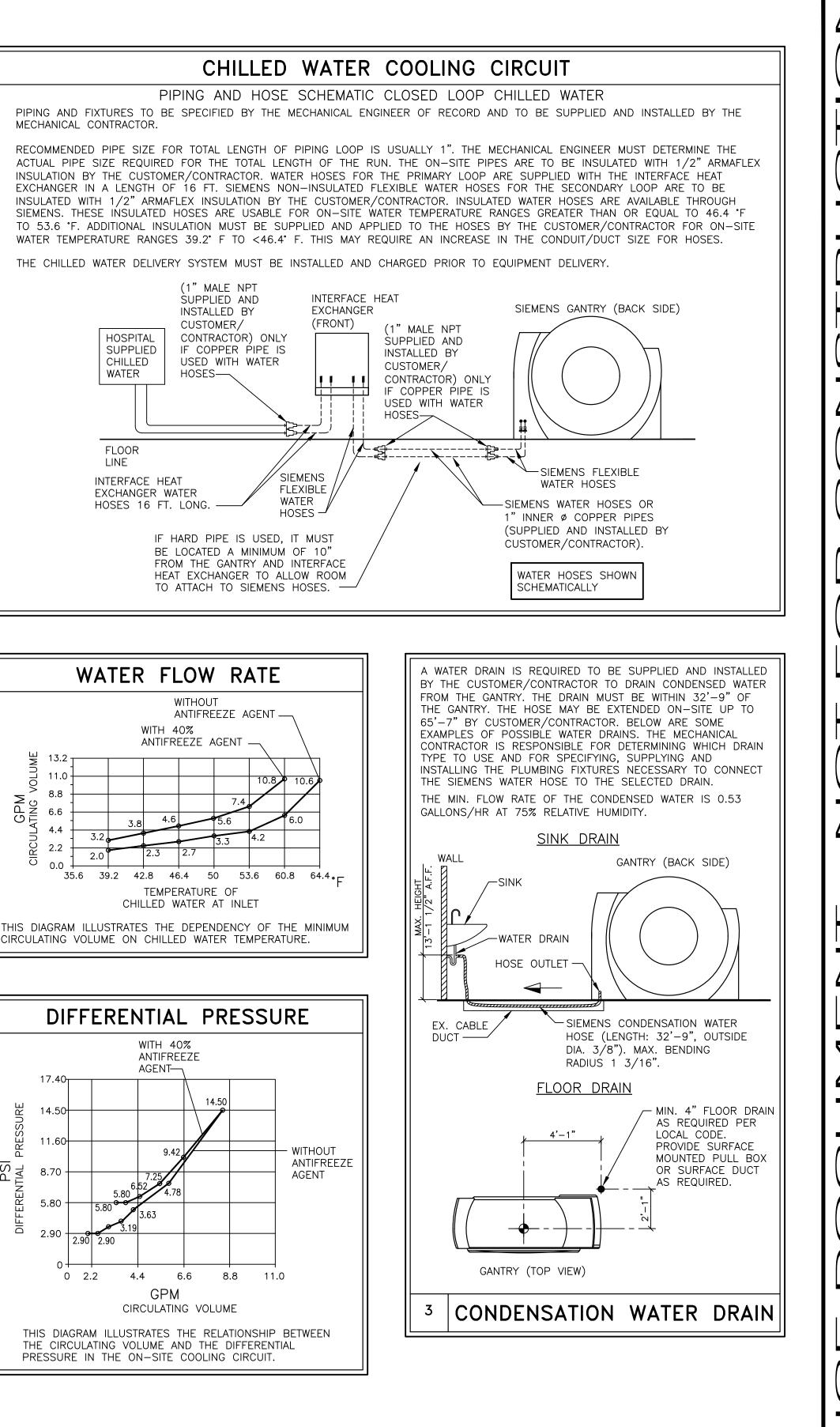
ΤO

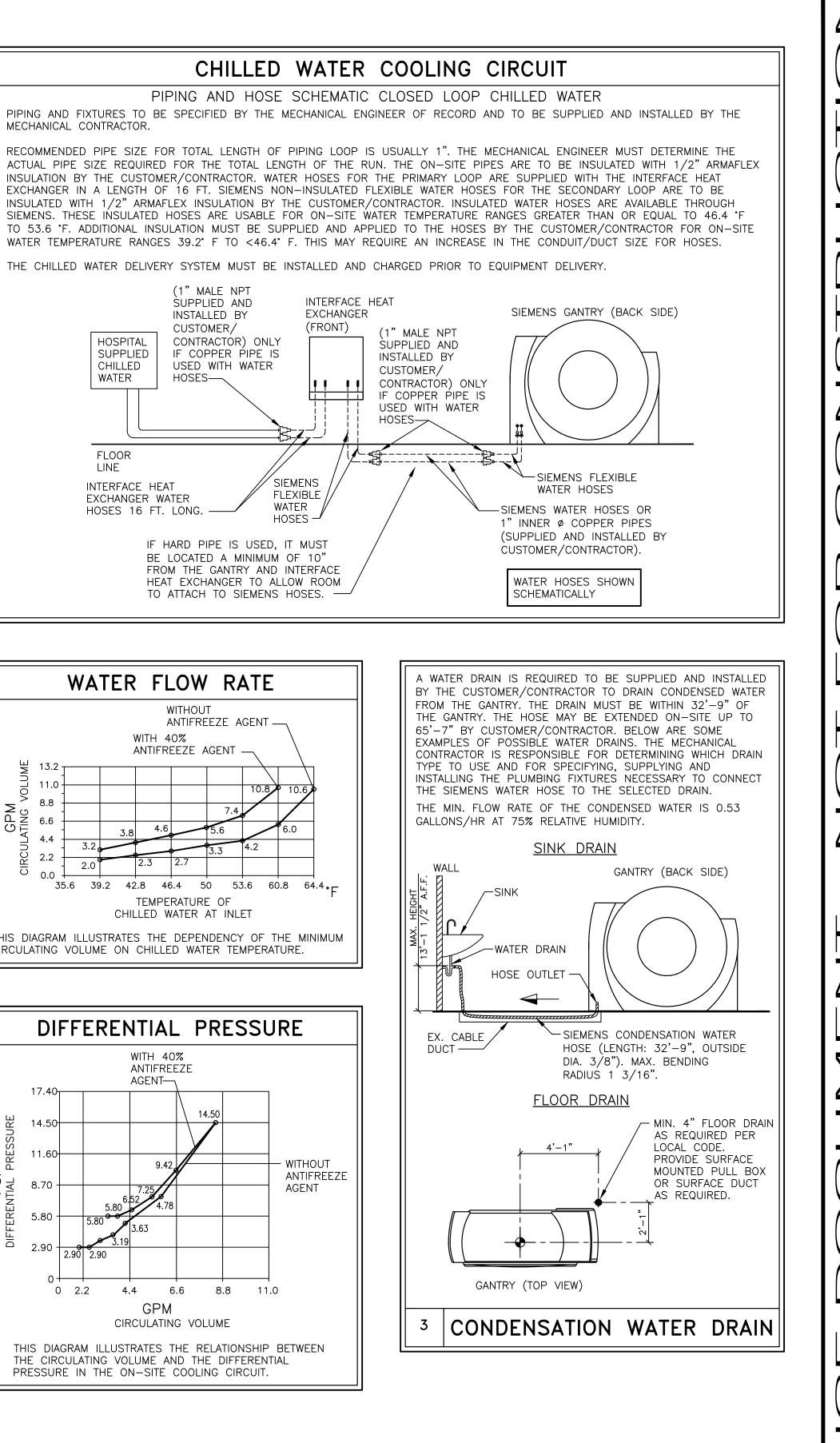
4 1/4"

SCALE: 3/4"=1'-0"

GANTRY

GANTRY





AL S

							REV 16
			PROJECT MANAGEF TEL: (602) 300 VMAIL: FAX: EMAIL: JESSE.HULS		THINEERS.COM		SIEMENS
			BAR	320	60 HOSPITAL DR, JU	ONAL NEAU, AK 99801-74 SOMATOM EDGE PLU	
Δ	06/06/22	UPDATED ELECRICAL ROUTING	THIS TITLE B	PRODUCTION OF LOCK WITHOUT	PROJECT #:		SHEET:
\land	05/05/22	R–101RB VERSION DATED 03/03/22 APPROVED BY CUSTOMER FOR FINALS	RESULT IN PROS	ORIZATION WILL SECUTION UNDER OF THE LAW.	2200	0096	N/I 101
SYM	DATE	DESCRIPTION	ALL RIGHTS A	RE RESERVED.	SHEET OF 7 7	DRAWN BY: L. BACH	
	-ISSU	E BLOCK-	SCALE: AS NOTED	REF. #: 30257548	DATE: 06/06/22		

	B SIEMEINS GANTRT (BACK SIDE)
	ON-SITE CHILLED WATER CONNECTION TO HOSPITAL COOLING CIRCUIT.
-	
	X. CABLE DUCT SIEMENS FLEXIBLE WATER HOSES.
(1)	ON-SITE CHILLED WATER REQUIREMENTS THE COOLING SYSTEM IS INTEGRATED WITHIN THE GANTRY. THE ON-SITE CHILLED WATER SUPPLY AND RETURN ARE CONNECTED DIRECTLY TO THE GANTRY.
ER IS ONS IS	WATER TEMPERATURE:MINIMUM 39.2°F TO 53.6°F MAXIMUMIOMINAL OPERATING29 TO 87 PSI (145 PSI MAXIMUM)IPRESSURE:29 TO 87 PSI (145 PSI MAXIMUM)LOW RATE:DEPENDS ON WATER TEMPERATUREIPFFERENTIAL PRESSURE:AS RELATES TO WATER CIRCULATIONA 3/4" HOSE BIB AND A WATER DRAIN (EX. SINK) MUST BEIVAILABLE NEAR THE GANTRY FOR FILLING THE COOLINGSYSTEM.
AN TO A FLOW ZE 9.2° F DW ZE TO H	CHILLED WATER HOSES THE SIEMENS FLEXIBLE CHILLED WATER HOSES HAVE TO BE ORDERED SEPARATELY AND WILL BE SUPPLIED IN THE TOLLOWING THREE LENGTHS ONLY: 31 FEET, 64 FEET AND 96 TEET. THE MIN. ACCEPTABLE BENDING RADIUS OF THE HOSES 6". THE OUTER DIAMETER OF THE WATER HOSES IS -9/16". CUSTOMER/CONTRACTOR TO INSULATE ION-INSULATED WATER HOSES WITH 1/2" ARMAFLEX NSULATION. INSULATED WATER HOSES ARE AVAILABLE THROUGH GIEMENS. THESE INSULATED HOSES ARE USABLE FOR ON-SITE VATER TEMPERATURE RANGES GREATER THAN OR EQUAL TO 6.4 °F TO 60.8 °F. ADDITIONAL INSULATION MUST BE SUPPLIED AND APPLIED TO THE HOSES BY THE CUSTOMER/CONTRACTOR FOR ON-SITE WATER TEMPERATURE RANGES 39.2° F TO <46.4° F. THIS MAY REQUIRE AN INCREASE N THE CONDUIT/DUCT SIZE FOR HOSES.
	2 CHILLED WATER SCALE: NONE

FOR CT GANTRY ONLY	MIN	IMUM 7'-6	9/16"
CAREVISION MONITOR/CEILING I	MOUNT SEE	DETAIL ON S	-102 SHEE
/			

-ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES. - THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

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