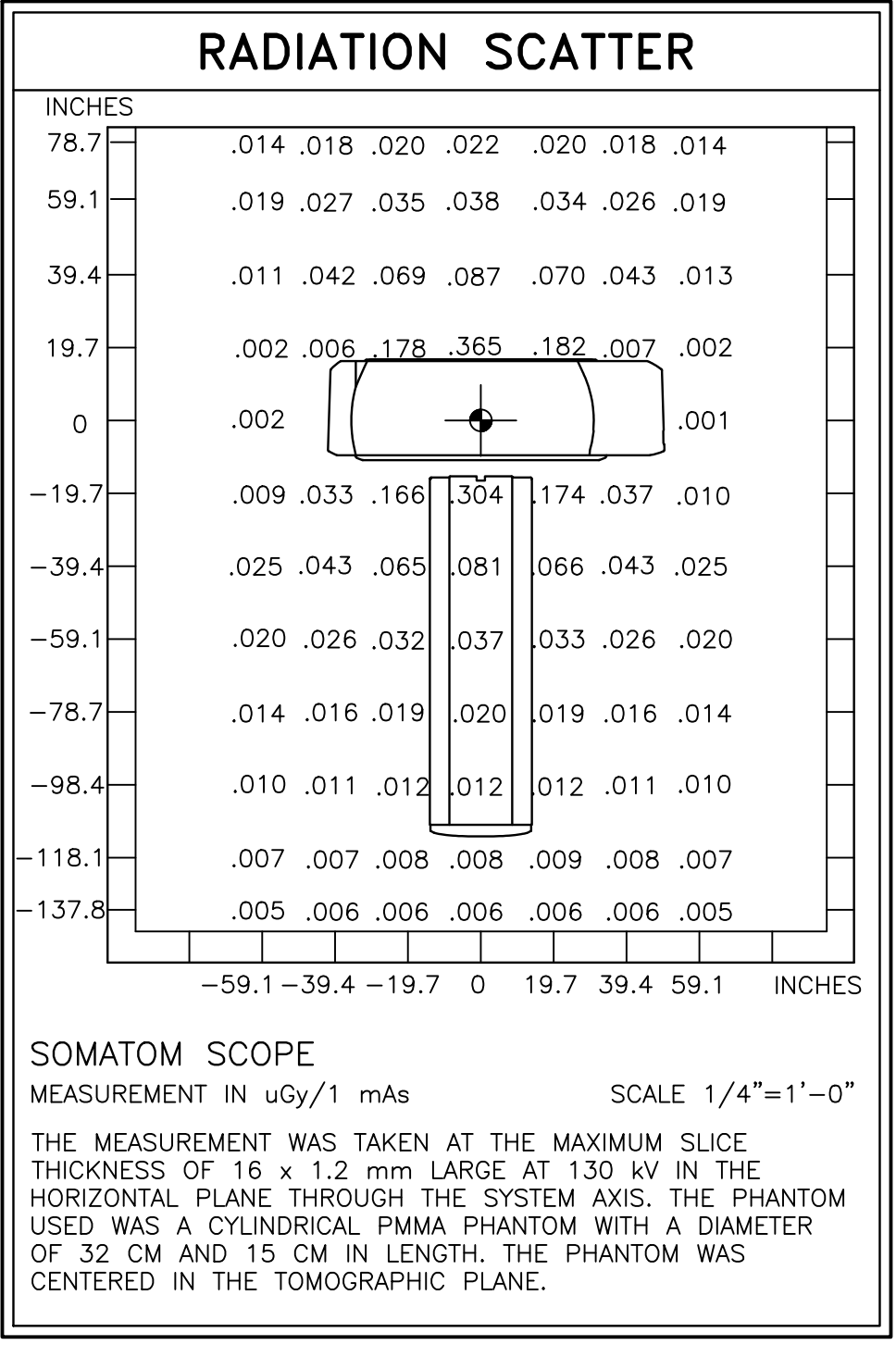
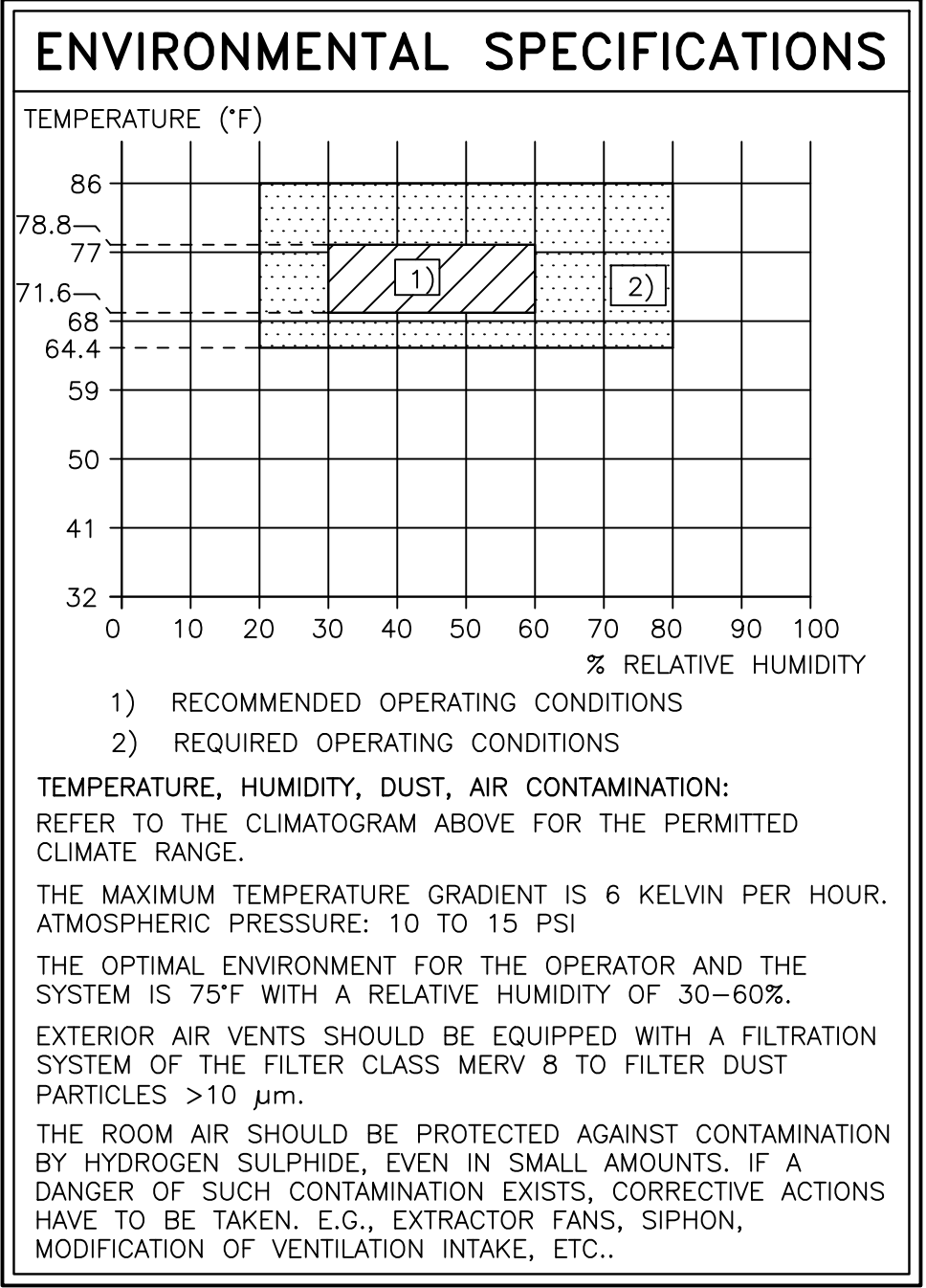


**ARCHITECTURAL EQUIPMENT PLAN**

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

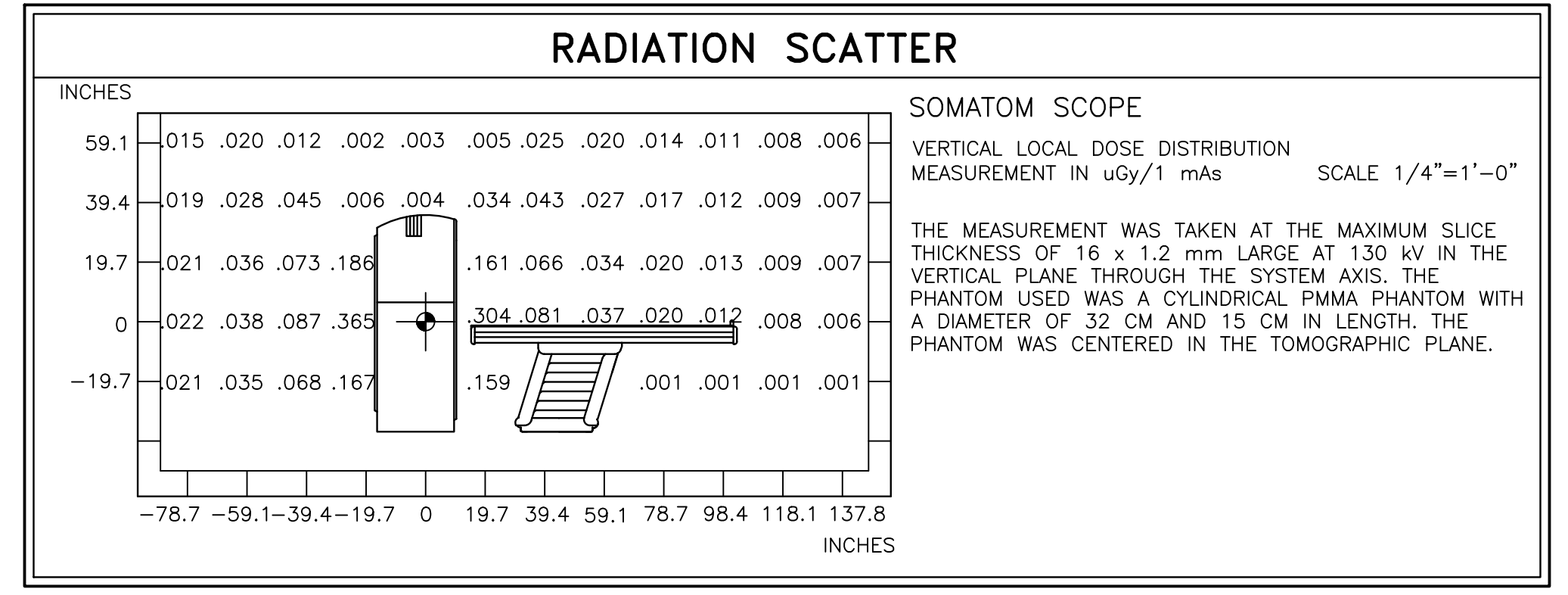
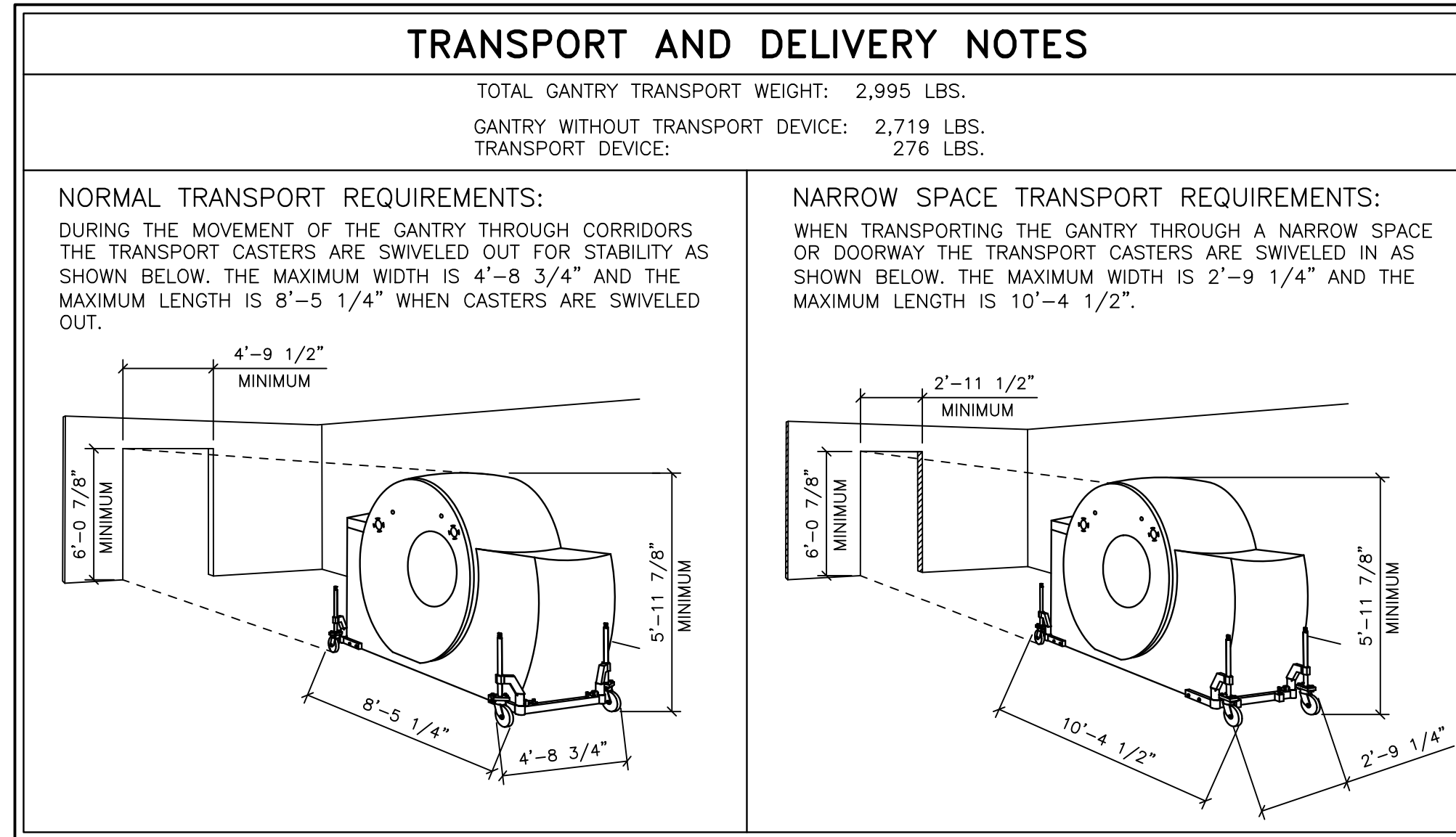


**STATE AGENCY REVIEW**

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.

**EQUIPMENT LEGEND**

NO	DESCRIPTION	SMS SYM	WEIGHT (LBS)	BTU/HR TO AIR	DIMENSIONS (INCHES)			REMARKS
					W	D	H	
1	OPERATING CONSOLE (OPTION)	⊖	79.5	**	47 1/4	36 5/8	29 3/4	1200mm
2	IMAGE CONTROL SYSTEM AND STANDARD COMPONENTS	⊖	<66	2,389**	7 5/16	18 15/16	17	**TOTAL
3	IMAGE RECONSTRUCTION SYSTEM	⊖	<55	**	7 5/16	19	17	
4	UPS FOR IMS	⊖	65	**	3 1/2	20 13/16	17	
5	IMS CONTAINER (OPTION)	⊖	161	---	31 7/8	31 1/2	30 1/16	HOUSING FOR ICS/IRS
6	SOMATOM SCOPE	⊖	2,719	18,096*	91	27 1/4	71 5/16	*TOTAL
7	SOMATOM SCOPE POWER	⊖	2,719	23,203*	91	27 1/4	71 5/16	*TOTAL
8	PATIENT TABLE	⊖	950	*	97 3/8	27 1/2	19 5/8	MAX. HEIGHT 35"
9	LINE CONNECTION BOX	⊖	260	1,365	29 1/2	11 3/4	32	
10	EATON SURGE PROTECTIVE DEVICE PANEL (OPTION)	⊖	13.5	---	7 1/2	6 11/16	12	WALL MOUNTED
11	CARE VISION DUAL MONITOR (OPTION)	⊖	174	---	---	---	---	CEILING MOUNTED
12	MEDRAD DISPLAY CONTROL UNIT/BASE UNIT (OPTION)	⊖	---	---	---	---	---	HEIGHT WITH SCREEN UP
13	CEILING MOUNTED MEDRAD INJECTOR (OPTION)	⊖	106	---	---	---	---	SEE MFG SPECIFICATIONS



**Project Milestones To Be Completed Before Equipment Delivery**

Project Milestones To Be Completed Before Equipment Delivery	Reference Sheet
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 verified (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

**ARCHITECTURAL NOTES**

- ALL PRELIMINARY EQUIPMENT LAYOUTS SUBMITTED BY SIEMENS HEALTHCARE ARE BASED ON THE RECOMMENDED SPACE NECESSARY FOR THE OPERATION AND SERVICEABILITY OF THE EQUIPMENT BEING PROVIDED. 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 ENDOURCH 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.
- 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/CLEARANCE REQUIREMENTS.
- THE CUSTOMER IS RESPONSIBLE FOR ALL ROOM AND AREA PREPARATION COSTS, PROFESSIONAL FEES, PERMITS, REPORTS, AND INSPECTION FEES.
- 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.
- ALL DIMENSIONS SHOWN ARE FROM FINISHED SURFACES UNLESS SPECIFIED OTHERWISE.
- 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 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 THE ACTIVITIES OF THE RADIATION PHYSICIST AND THE ARCHITECTURAL REPRESENTATIVE.
- 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 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 RULES ACTIONS OR REQUIREMENTS SHALL BE SUPPORTED BY, CHARGED TO, AND ACCEPTED BY THE CUSTOMER AS AN ADDITIONAL INSTALLATION EXPENSE.
- 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.).
- 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.

**CASEWORK & ACCESSORY NOTES**

- 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.
- THE SOUND SYSTEM AND INTERCOM BETWEEN THE EXAMINATION AND CONTROL ROOMS ARE TO BE LOCATED, FURNISHED AND INSTALLED BY THE CUSTOMER/CONTRACTOR.
- ALL FURNITURE (CHAIRS, ETC.) FOR THE CONTROL ROOM ARE TO BE PROVIDED BY THE CUSTOMER.

**PLANNING REQUIREMENTS**

EMERGENCY POWER OFF (EPO) BUTTONS ARE REQUIRED IN CONTROL AREA AND AT LEAST ONE LOCATION IN EXAMINATION OR SCAN ROOM.

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

**RESOURCE LIST (SMS USE ONLY)**

DESIGNATION	PG NUMBER	DATE
SOMATOM SCOPE	C2-015.891.01.06.02	03.17
COMMON CT	CT00-000.891.04.16.02	04.18
COMMON CT OPTIONS	CT00-000.891.03.40.02	03.18

**ATTENTION:**

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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.

**FINISHED ROOM HEIGHT**

FOR CT GANTRY ONLY	MINIMUM 7'-6 9/16"
CAREVISION MONITOR/CEILING MOUNT	MIN. 8'-6 3/8" MAX. 12'-1 11/16"

SYM	DATE	DESCRIPTION
△	N/A	TYPICAL REV 9
-ISSUE BLOCK-		

**SIEMENS**

**SOMATOM SCOPE**  
TYPICAL FINAL DRAWING SET

THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW.

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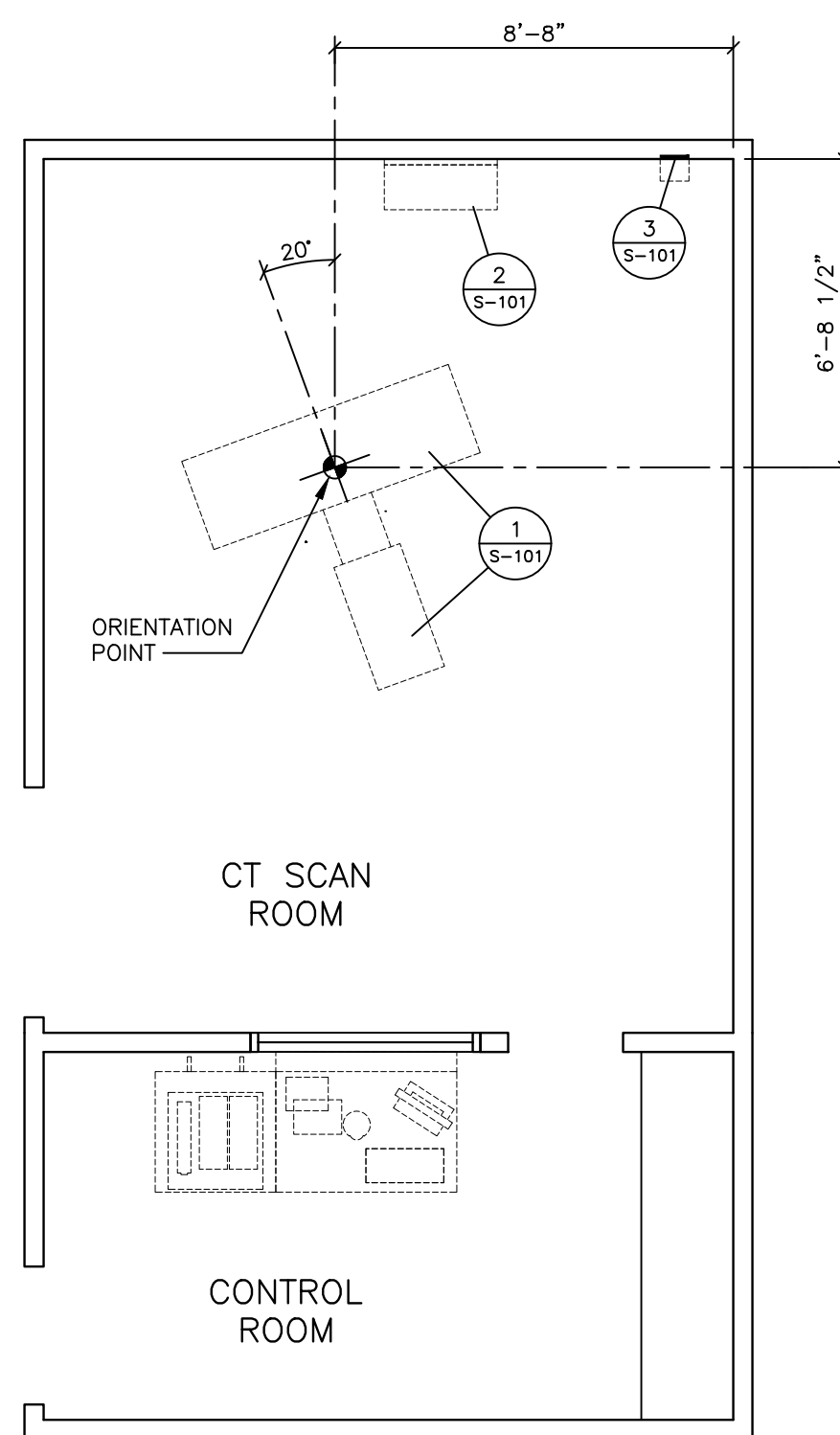
SCALE: AS NOTED REF. #:

PROJECT #: **14048** SHEET: **A-101**

SHEET 1 OF 5 DRAWN BY: L. BACH

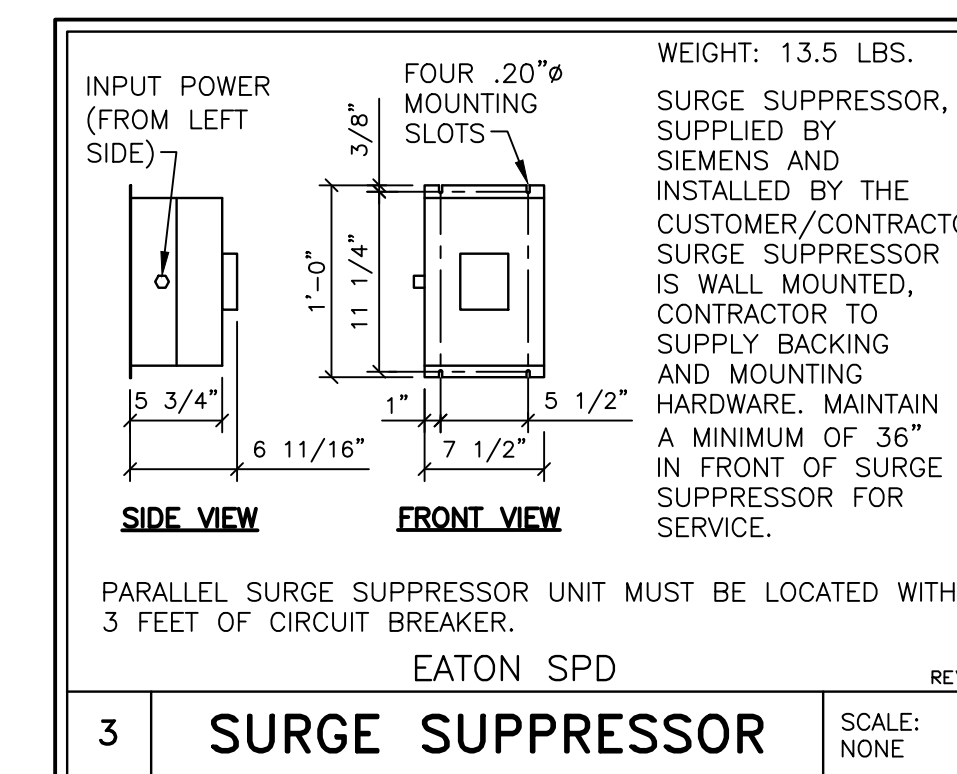
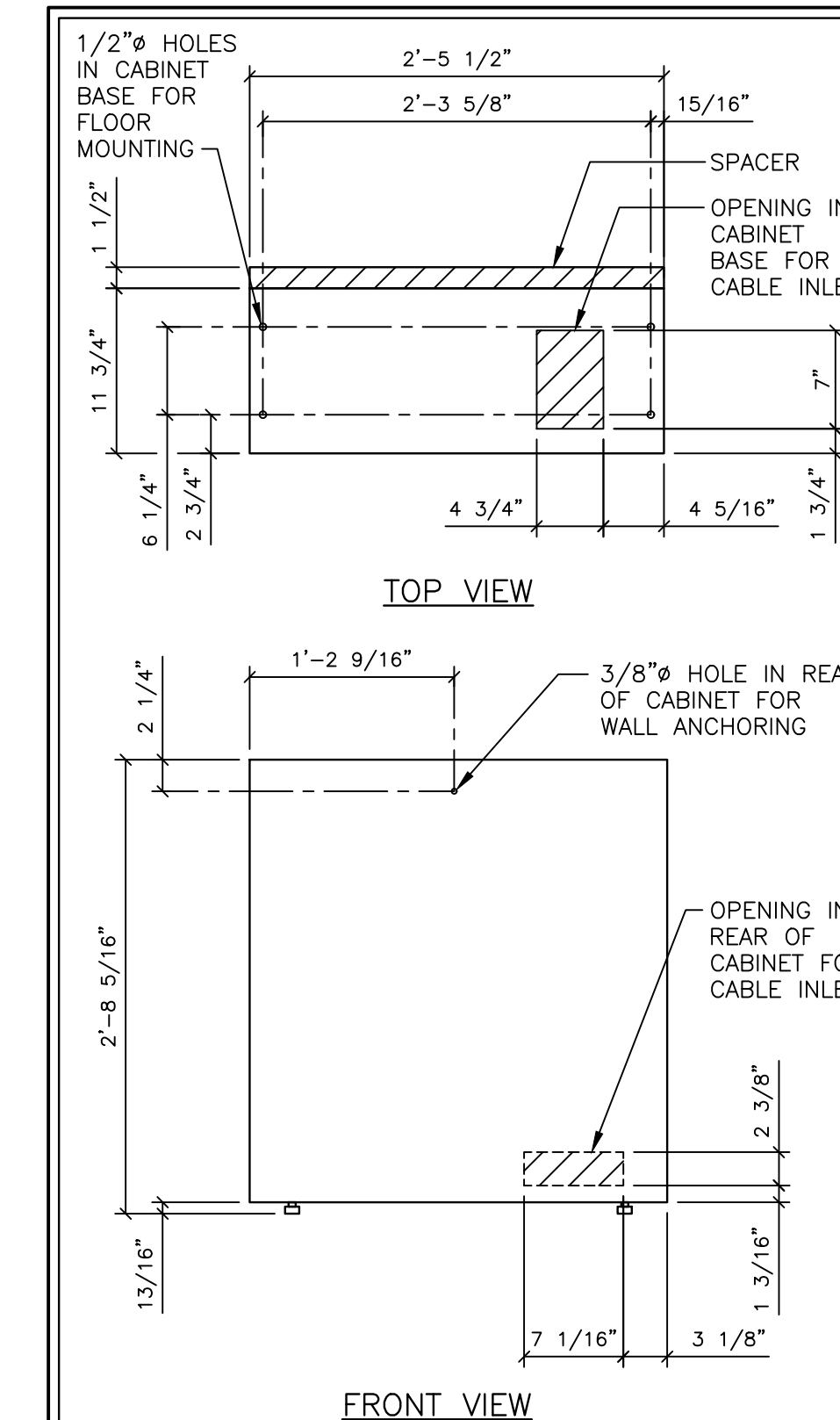
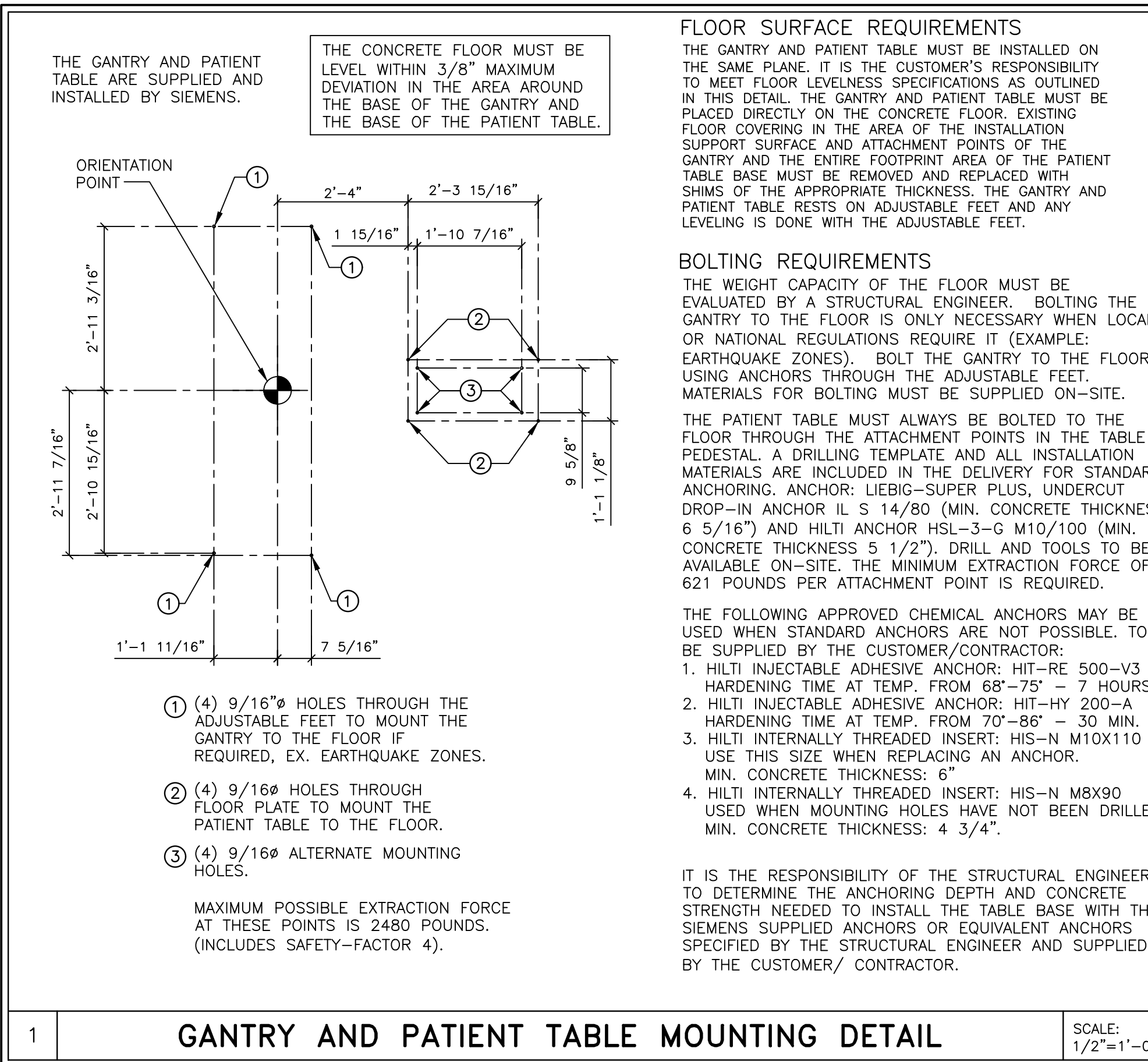
DATE: \_\_\_\_\_

NOTE: FOR THE WEIGHTS OF ALL SIEMENS EQUIPMENT SHOWN ON THIS PLAN, SEE THE "EQUIPMENT LEGEND" ON SHEET A-101.



**STRUCTURAL FLOOR PLAN**

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



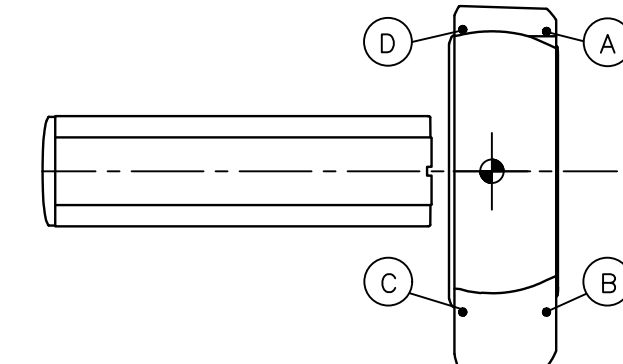
**STRUCTURAL NOTES**

- THE CUSTOMER/CONTRACTOR SHALL FURNISH AND INSTALL ALL STRUCTURAL SUPPORT MEMBERS AND NEEDED HARDWARE FOR THE INSTALLATION OF THE SIEMENS EQUIPMENT.
- THE OVERHEAD STRUCTURAL SUPPORT SYSTEM SHALL BE FIXED, RIGID AND BRACED FOR SWAY.
- 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.
- 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.
- 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.
- 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.
- THE BOTTOM SIDE OF THE UNISTRUT CEILING GRID AND ANY CEILING MOUNTED SUPPORT PLATES ARE TO BE INSTALLED FLUSH WITH THE FINISHED CEILING. THE CUSTOMER/CONTRACTOR SHALL ALSO PROVIDE COVERSTRIPS FOR THE UNISTRUT.
- 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.
- THE STRUCTURAL ENGINEER OF RECORD SHALL BE RESPONSIBLE FOR THE DESIGN AND DETAIL OF FLOOR, WALL, AND CEILING STRUCTURES IN ACCORDANCE WITH THE STRUCTURAL INFORMATION SHOWN, AND LOCAL GOVERNING BUILDING CODES.

**FLOOR LOADING**

DESCRIPTION				
F STAT MAX	STATIC FLOOR LOAD DUE TO GANTRY'S OWN WEIGHT			
AMPLITUDE F DYN	DIFFERENCE BETWEEN MINIMUM AND MAXIMUM FLOOR LOADING DURING GANTRY ROTATION			
TABLE OF PARAMETERS				
GANTRY MEASUREMENT POINTS	F STAT MAX (POUNDS)	AMPLITUDE FOR F DYN (POUNDS)	SUPPORT SURFACE	DIAMETER
(A)	1348	+/- 57	2 IN <sup>2</sup>	1 3/4 IN
(B)	1348	+/- 57		
(C)	1348	+/- 57		
(D)	1348	+/- 57		

NOTE: THE VALUES INDICATED FOR THE FLOOR LOAD ARE ONLY VALID IF THE GANTRY IS LEVELLED PROPERLY AND THE WEIGHT IS DISTRIBUTED TO ALL FEET A TO D. FOR A STATIC INTERPRETATION, A MAXIMUM VALUE OF 1348 POUNDS (3 POINT SURFACE) MUST BE FACTORED IN.



EXTERNAL VIBRATIONS OR SHOCKS THROUGH THE BUILDING OR THROUGH THE FLOOR THAT AFFECT THE GANTRY DEGRADE IMAGE QUALITY.

PERMITTED VIBRATION SENSITIVITY	
VIBRATIONAL SPEED $V_{RMS}^{(1)}$ LEVEL OF THE THIRD OCTAVE BAND	25 $\mu$ M/S
FREQUENCY RANGE (2)	1 Hz to 120 Hz

- ROOT MEAN SQUARE
- VIBRATIONAL SPEED  $V_{RMS}$  TRANSFERRED THROUGH THE BUILDING OR THROUGH THE FLOOR TO THE GANTRY MUST NOT BE EXCEEDED IN THE THREE SPATIAL ORIENTATIONS AT THIS FREQUENCY RANGE.

FINISHED ROOM HEIGHT	
FOR CT GANTRY ONLY	MINIMUM 7'-6 9/16"
CAREVISION MONITOR/CEILING MOUNT	MIN. 8'-6 3/8" MAX. 12'-1 11/16"

<p><b>SIEMENS</b></p> <p><b>SOMATOM SCOPE</b></p> <p>TYPICAL FINAL DRAWING SET</p>		PROJECT #:	SHEET:
		<b>14048</b>	<b>S-101</b>
<p>THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW.</p> <p>ALL RIGHTS ARE RESERVED.</p>		SHEET 2 OF 5	DRAWN BY: L. BACH
<p>SCALE: AS NOTED</p> <p>REF. #:</p>		DATE:	

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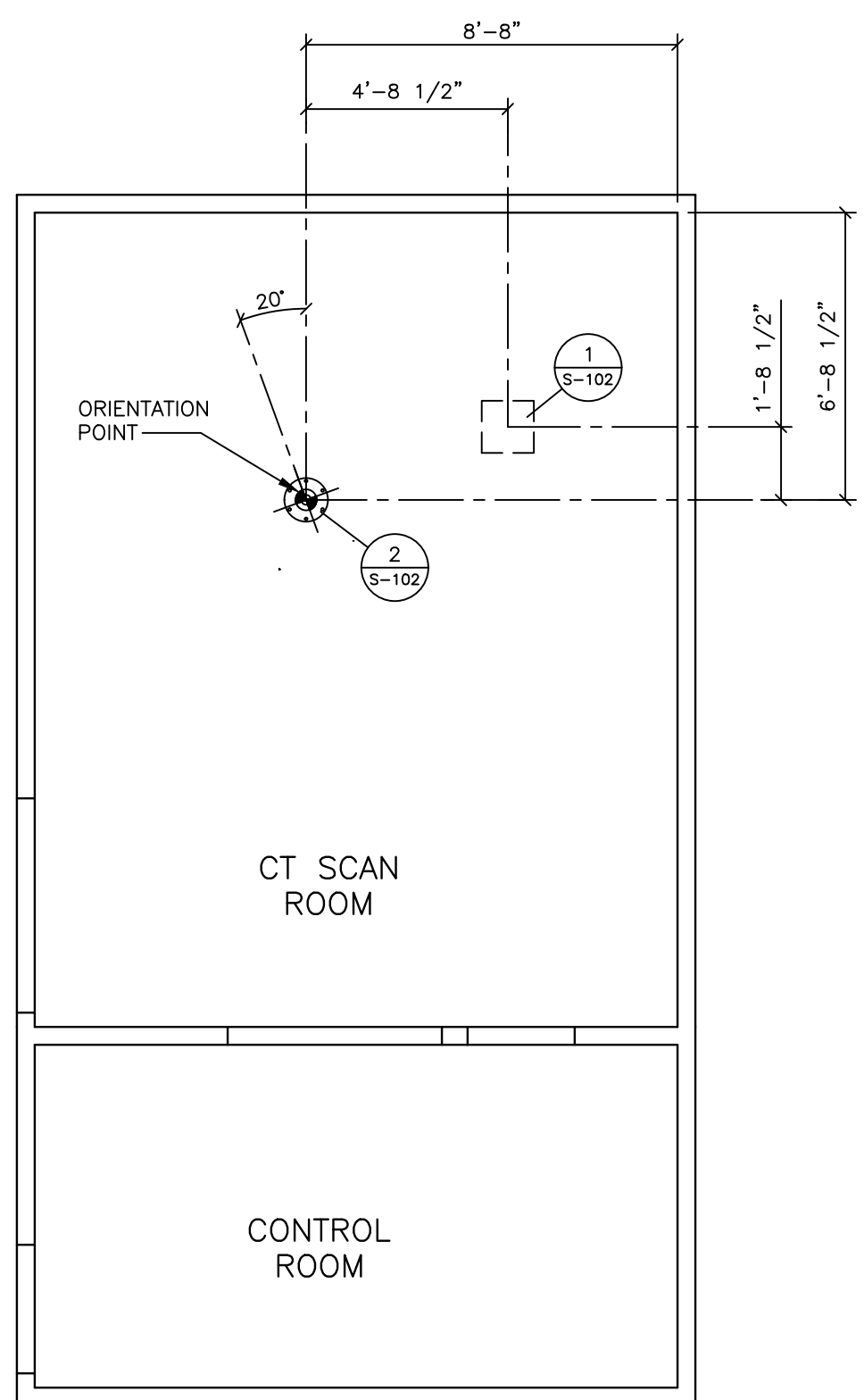
SYM	DATE	DESCRIPTION

- ISSUE BLOCK -

SCOPE REV 9

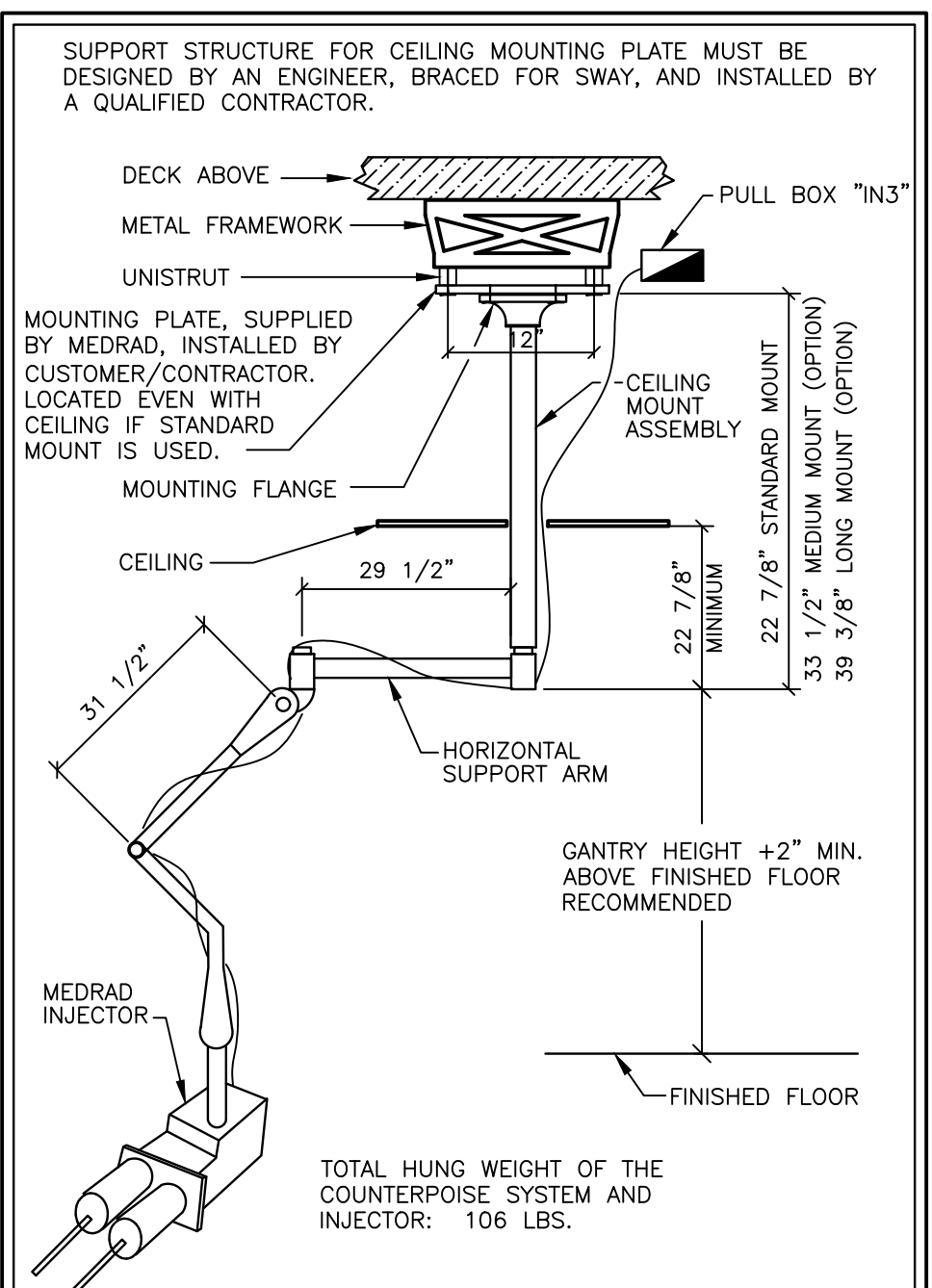
REFERENCE DOCUMENT - NOT FOR CONSTRUCTION

NOTE: FOR THE WEIGHTS OF ALL SIEMENS EQUIPMENT SHOWN ON THIS PLAN, SEE THE "EQUIPMENT LEGEND" ON SHEET A-101.



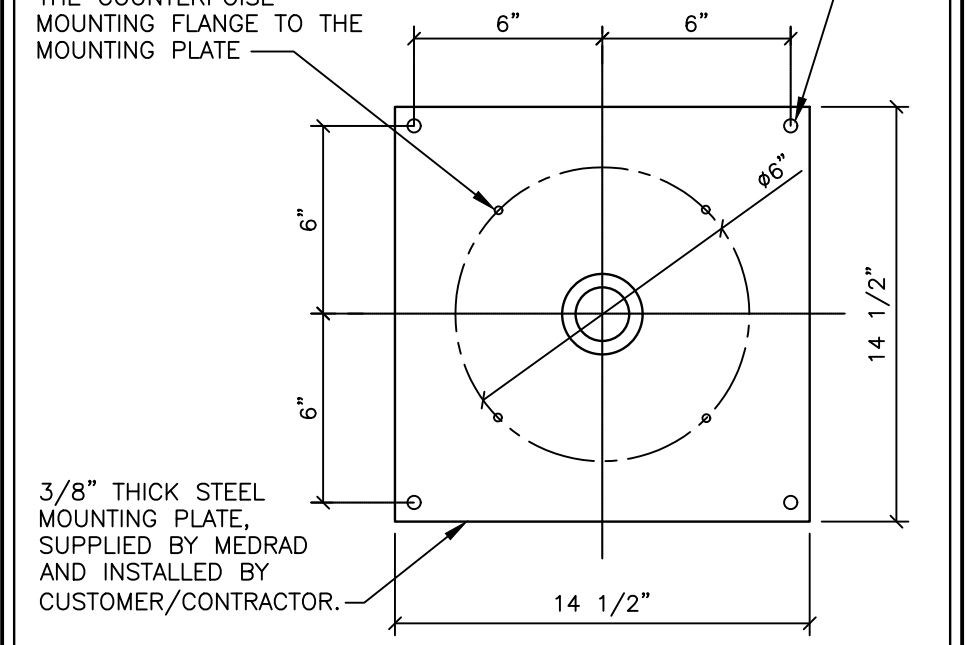
**STRUCTURAL CEILING PLAN**

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

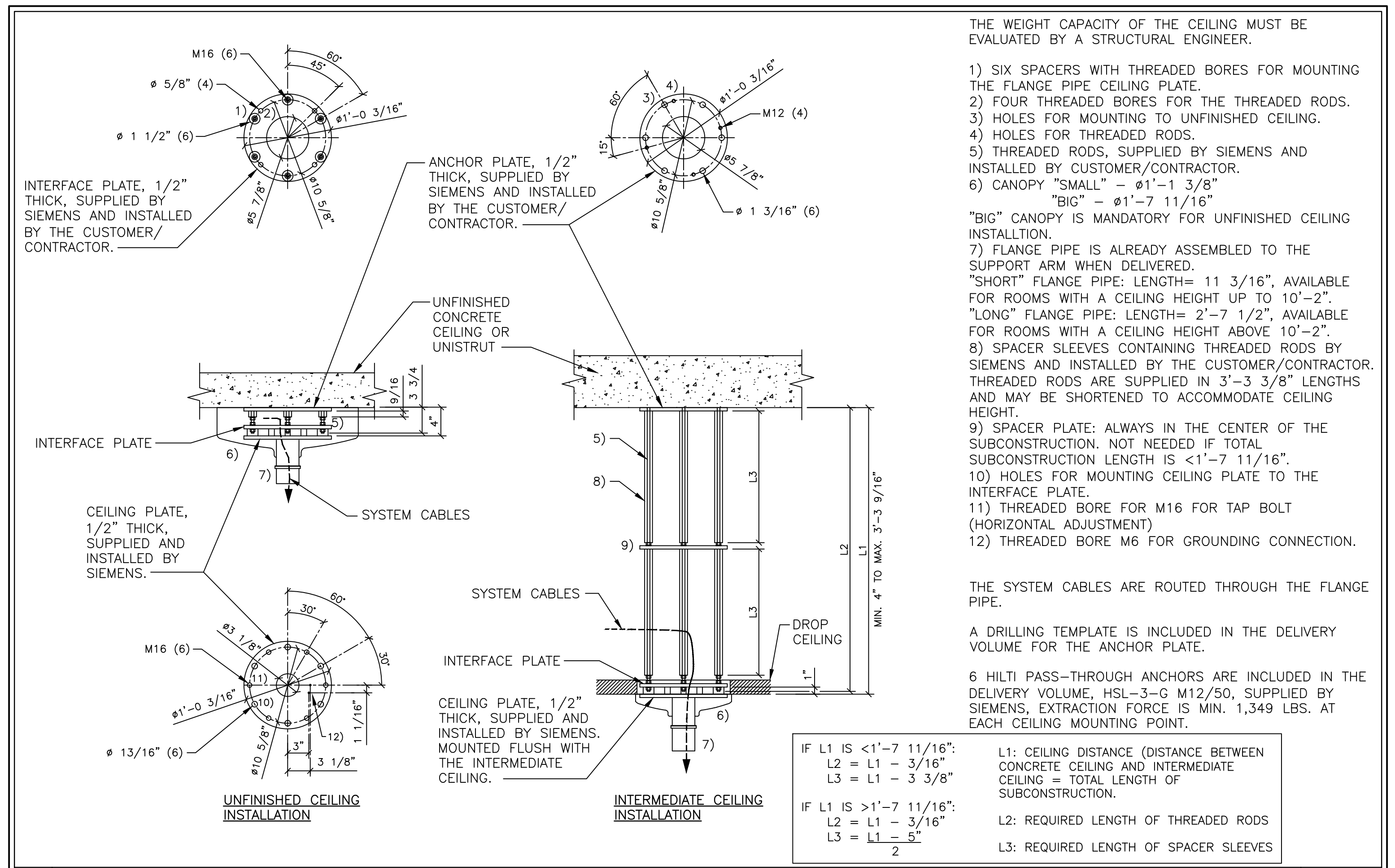


THERE SHOULD BE SPACE ABOVE THE MOUNTING PLATE TO ACCESS NUTS AND LOCK WASHERS DURING INSTALLATION.

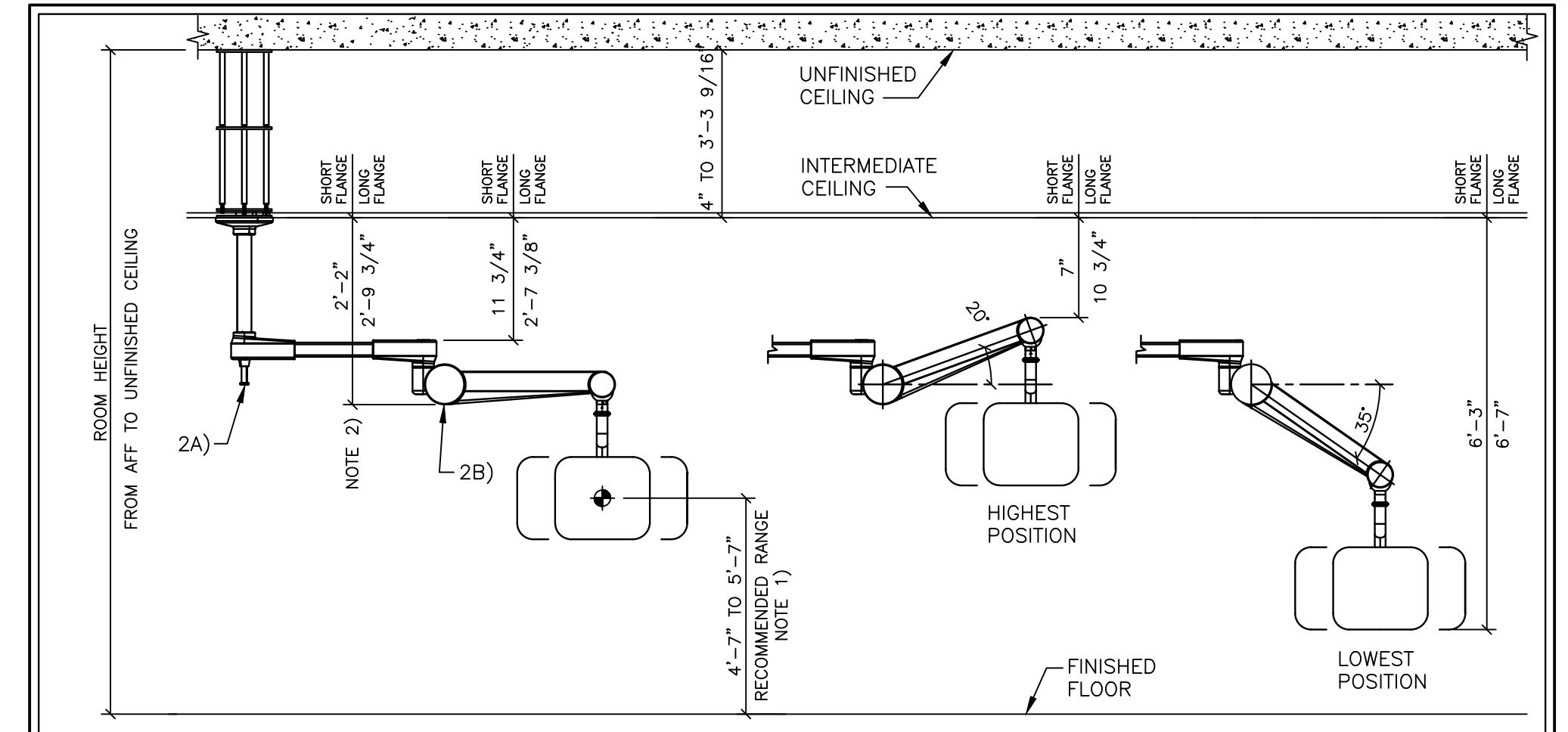
FOUR 1/2" DIA. A307 BOLTS FOR ANCHORING THE MOUNTING PLATE TO UNISTRUT OR SUPPORT FRAME, SUPPLIED AND INSTALLED BY CUSTOMER/CONTRACTOR.  
FOUR 3/8" DIA. A325 BOLTS (SUPPLIED BY MEDRAD) FOR MOUNTING THE COUNTERPOISE MOUNTING FLANGE TO THE MOUNTING PLATE.



1 MEDRAD INJECTOR (CL) SCALE: NONE



2 CARE VISION MONITOR CEILING MOUNT DETAIL SCALE: 1" = 1'-0"



1) IF THE ROOM HEIGHT DOES NOT FALL WITHIN THE RECOMMENDED RANGE, THE MONITOR VIEW ZONE DOES NOT COVER THE ENTIRE RANGE OF THE PREFERRED 4'-7" TO 5'-7" RANGE. IN THIS CASE, WE RECOMMEND USING THE MONITOR TROLLEY.  
2) A FREE SPACE OF AT LEAST 2" BETWEEN THE HIGHEST GANTRY POINT (EX. GANTRY TILT, OPENED SERVICE LID, ETC) AND THE LOWEST MCS CONTACT POINT MUST BE MAINTAINED. OTHERWISE ONLY THE MONITOR TROLLEY IS PERMITTED.  
A) LOWEST CONTACT POINT IF PLACED OVER ISOCENTER. B) LOWEST CONTACT POINT IF NOT PLACED OVER ISOCENTER.  
3) SHORTENING OF THE FLANGE PIPES IS NOT PERMITTED.

CARE VISION OVERHEAD SUPPORT SIDE ELEVATION SCALE: NONE

FINISHED ROOM HEIGHT	
FOR CT GANTRY ONLY	MINIMUM 7'-6 9/16"
CAREVISION MONITOR/CEILING MOUNT	MIN. 8'-6 3/8" MAX. 12'-1 11/16"

**SIEMENS**  
**SOMATOM SCOPE**  
TYPICAL FINAL DRAWING SET

PROJECT #: **14048**  
SHEET: **S-102**

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DATE: 3 OF 5  
DRAWN BY: L. BACH

SCALE: AS NOTED REF. #:

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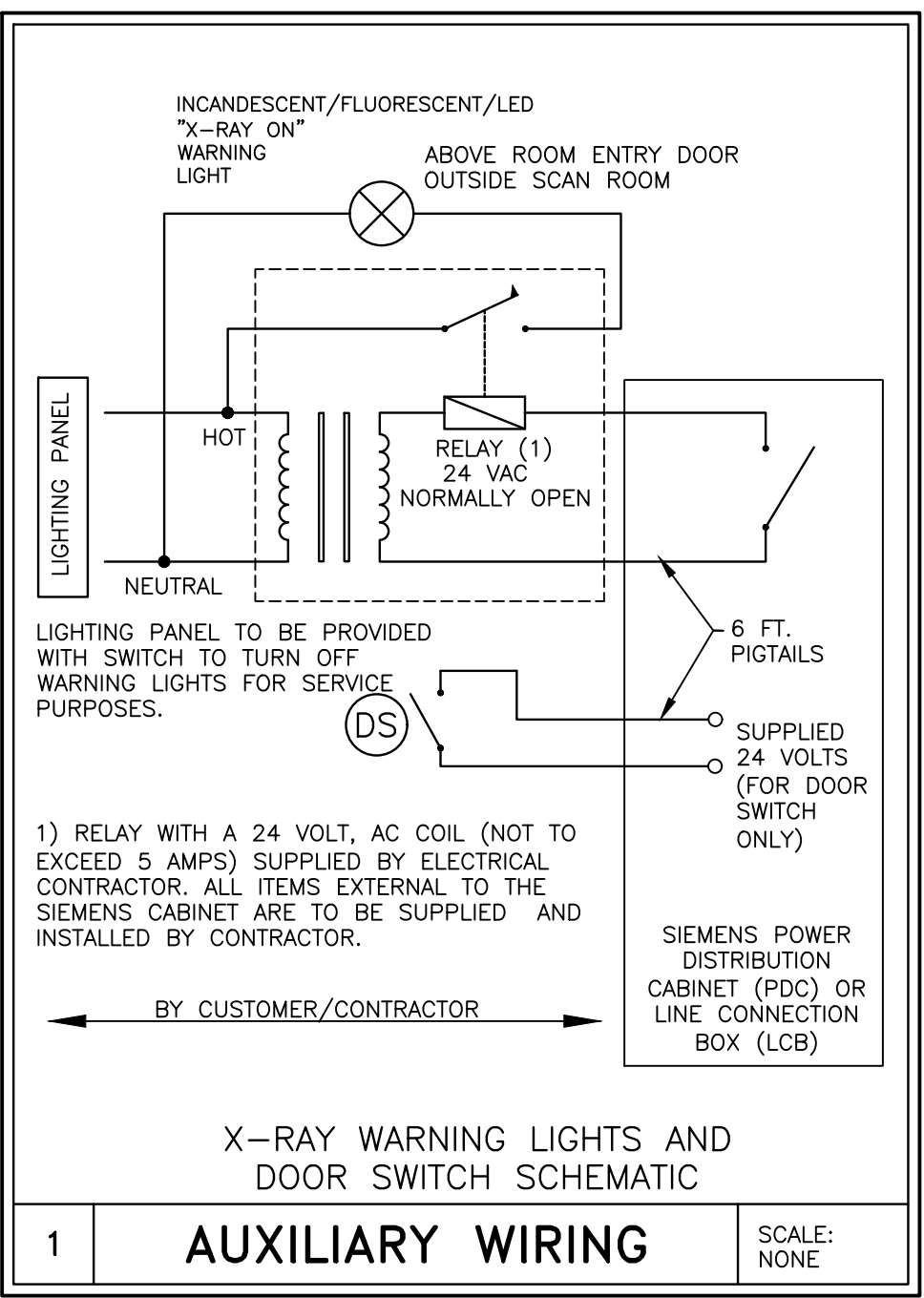
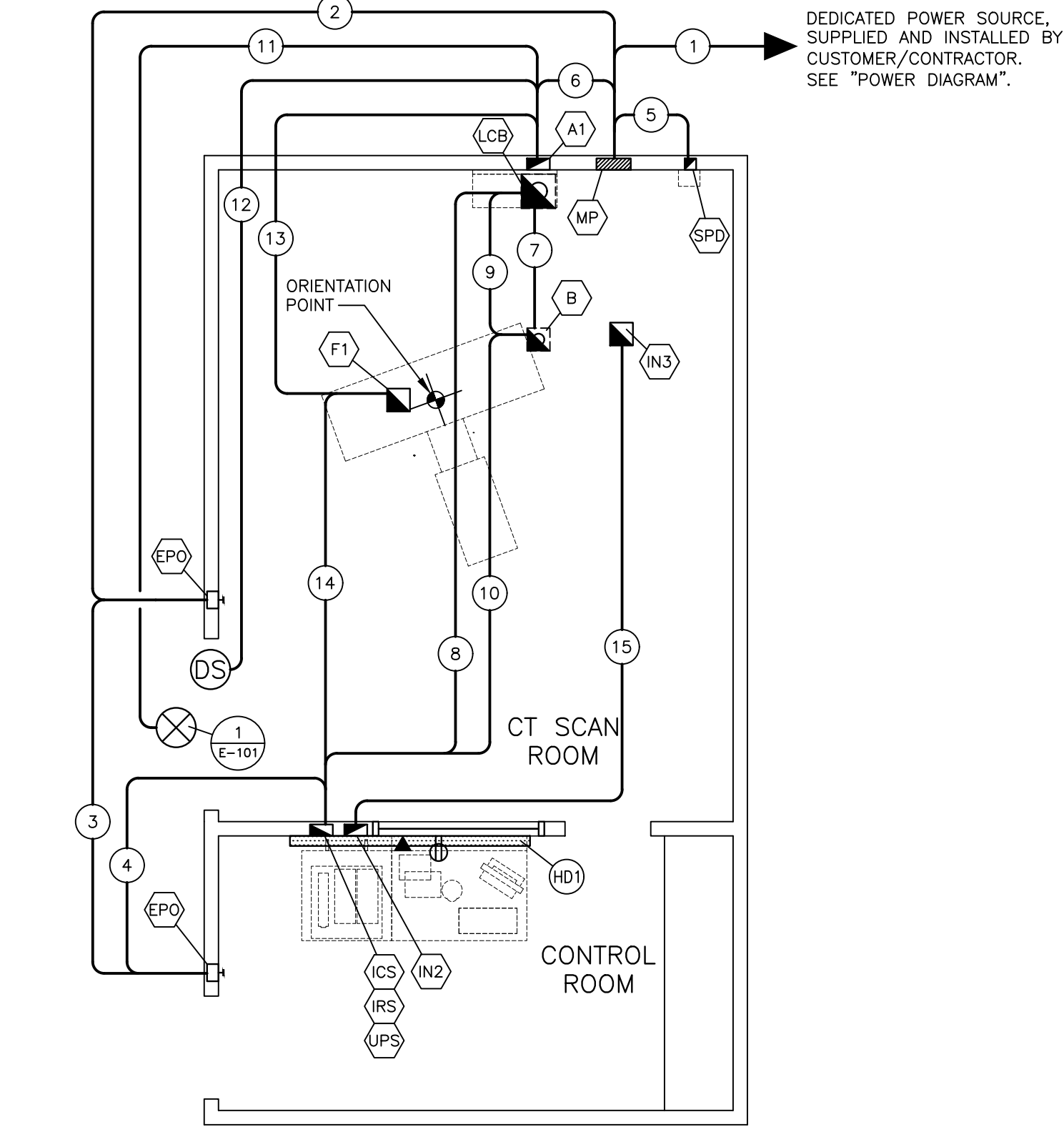
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SYM	DATE	DESCRIPTION
△	N/A	TYPICAL REV 9

-ISSUE BLOCK-

REFERENCE DOCUMENT - NOT FOR CONSTRUCTION

DOOR SWITCHES ARE OPTIONAL (PER LOCAL CODE REQUIREMENTS).



SYSTEM	SUPPLY VOLTAGE (VOLTS)	POWER CONSUMPTION (kVA)	SUPPLY IMPEDANCE (mΩ)	CIRCUIT BREAKER(S) (AMPS)
SCOPE GANTRY WITH PATIENT TABLE	3φ 480/277V ±10%	SEE BELOW	≤ 400	50
SCOPE POWER GANTRY WITH PATIENT TABLE	3φ 480/277V ±10%	SEE BELOW	≤ 320	70

POWER CONSUMPTION GANTRY WITH PATIENT TABLE—SCOPE OPERATING FOR 10 SEC. ≤ 40 kVA OPERATING FOR 100 SEC. ≤ 24.2 kVA STAND-BY ≤ 3.3 kVA

POWER CONSUMPTION GANTRY WITH PATIENT TABLE—SCOPE POWER OPERATING FOR 4 SEC. ≤ 68 kVA OPERATING FOR 100 SEC. ≤ 28.7 kVA STAND-BY ≤ 3.7 kVA

POWER CONSUMPTION IMS (IRS, ICS AND MONITOR) MAXIMUM IN OPERATION ≤ 0.50 kVA STAND-BY ≤ 0.50 kVA

IF AN ON-SITE TRANSFORMER IS REQUIRED TO OBTAIN CT OPERATING VOLTAGE, IT MUST BE OF SUFFICIENT CAPACITY AND CHARACTERISTICS TO MAINTAIN SUPPLY VOLTAGE AND IMPEDANCE REQUIREMENTS (TRANSFORMER AND CONDUCTORS).

THE IMAGING SYSTEM IMS (ICS, IRS AND MONITOR) MUST BE CONNECTED VIA THE UPS TO THE LCB (230 VOLT SUPPLIED BY LCB). THE FUSE IS ALREADY INTEGRATED IN THE LCB.

DO NOT CONNECT ANY EXTERNAL USERS TO THE CT POWER LINE.

THE EXAMINATION ROOM SHOULD BE EQUIPPED WITH AT LEAST ONE EMERGENCY POWER OFF (PANIC) BUTTON.

**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 CONTRACTOR'S 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	SIZE	DESCRIPTION	REMARKS
(A)	AS REQUIRED	PULL BOX MOUNTED FLUSH WITH FINISHED WALL AT FLOOR LINE IN SHOWN LOCATION.	ANCILLARY WIRING
(B)	AS REQUIRED	PULL BOX MOUNTED TO UNDERSIDE OF FLOOR SLAB WITH 4" CORE DRILL WITH SLEEVE THROUGH FLOOR SLAB ENDING FLUSH WITH FINISHED FLOOR IN EXAM ROOM IN SHOWN LOCATION.	GANTRY CABLE ACCESS
(E)	---	EMERGENCY POWER OFF BUTTON. EXACT LOCATIONS TO BE DETERMINED BY CUSTOMER/CONTRACTOR.	SEE POWER SCHEDULE
(F)	AS REQUIRED	PULL BOX MOUNTED ABOVE FINISHED CEILING.	CARE VISION MONITOR CEILING MOUNT
(G)	AS REQUIRED	PULL BOX MOUNTED FLUSH WITH FINISHED WALL AT THE FLOOR LINE IN CONTROL AREA IN SHOWN LOCATION PROVIDED WITH 3"φ OPENING IN FINISHED COVER.	IMAGE CONSTRUCTION SYSTEM
(H)	AS REQUIRED	PULL BOX MOUNTED FLUSH WITH FINISHED WALL AT FLOORLINE IN CONTROL AREA.	INJECTOR CONTROL
(I)	AS REQUIRED	PULL BOX MOUNTED ABOVE FINISHED CEILING FITTED WITH A REMOVABLE COVER.	SEE DETAIL S-102
(J)	---	FIXED POINT DESIGNATION, SAME PULL BOX/OPENING AS ICS.	IMAGE RECONSTRUCTION SYS.
(K)	AS REQUIRED	PULL BOX MOUNTED TO UNDERSIDE OF FLOOR SLAB WITH 6" CORE DRILL WITH SLEEVE THROUGH FLOOR SLAB ENDING FLUSH WITH FINISHED FLOOR IN SHOWN LOCATION.	LINE CONNECTION BOX
(L)	---	MAIN PANEL WITH MAIN BREAKER. EXACT LOCATION DETERMINED BY CUSTOMER/CONTRACTOR.	SEE POWER SCHEDULE.
(M)	AS REQUIRED	PULL BOX MOUNTED FLUSH WITH FINISHED WALL PROVIDED WITH 2"φ 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
(N)	---	FIXED POINT DESIGNATION, SAME PULL BOX/OPENING AS ICS.	
(O)	6" 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
(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 "UPS" 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 "A1" (LCB).	SEE POWER SCHEDULE
(7)	AS REQUIRED	CONDUIT FROM "LCB" TO "B" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
(8)	2"φ	CONDUIT FROM "LCB" TO "UPS".	MAX. CONDUIT LENGTH 70'-1" SEE POWER SCHEDULE
(9)	2"φ	CONDUIT FROM "LCB" TO "B".	MAX. CONDUIT LENGTH 65'-8"
(10)	3"φ	CONDUIT FROM "B" TO "ICS".	MAX. CONDUIT LENGTH 64'-6"
(11)	AS REQUIRED	CONDUIT FROM "A1" (LCB) TO "WARNING LIGHT", SIZED BY ELECTRICAL ENGINEER OF RECORD.	
(12)	AS REQUIRED	CONDUIT FROM "A1" (LCB) TO "DS", SIZED BY ELECTRICAL ENGINEER OF RECORD.	
(13)	2-1/2"φ	CONDUIT FROM "A1" (LCB) TO "F1".	MAX. CONDUIT LENGTH 68'-0"
(14)	2-1/2"φ	CONDUIT FROM "ICS" TO "F1".	MAX. CONDUIT LENGTH 98'-0"
(15)	2-1/2"φ	CONDUIT FROM "IN2" TO "IN3", VERIFY LENGTH WITH MANUFACTURER.	

**CONTRACTOR SUPPLIED CABLES**

FROM	VIA	TO	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	UPS	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,A1	LCB	3 PHASE CONDUCTORS, 1 NEUTRAL AND 1 GROUND. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
LCB	7	B	3 PHASE CONDUCTORS AND 1 GROUND. SIZED BY ELECTRICAL CONTRACTOR.	SEE POWER SCHEDULE
LCB	A1,11	WARNING LIGHT	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	
LCB	A1,12	DS	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	

**SIEMENS SUPPLIED CABLES**

FROM	VIA	TO	DESCRIPTION	REMARKS
LCB	8	UPS	POWER AND GROUND CABLES; W10:300V, W11:300V	MAXIMUM LENGTH 76'-1"
LCB	9	B	5-WIRE CABLE FOR DOOR SWITCH AND WARNING LIGHT; W323:30V	MAXIMUM LENGTH 71'-6"
B	10	ICS	DATA CABLES; W50:30V, W51:30V, W52:FIBER, COMM1, COMM2	MAXIMUM LENGTH 70'-6"
LCB	A1,13	F1	POWER CABLE	MAXIMUM LENGTH 68'-0"
ICS	14	F1	CONTROL CABLE	MAXIMUM LENGTH 68'-0"
IN2	15	IN3	MEDRAD INJECTOR CABLE	MAXIMUM LENGTH 98'-0"

**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 GROUNDING 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 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 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 RACEWAYS 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 CABLES), 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 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 TO 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.

**ELECTRICAL RACEWAY PLAN**

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

**SYMBOLS**

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

**FINISHED ROOM HEIGHT**

FOR CT GANTRY ONLY	MINIMUM 7'-6 9/16"
CAREVISION MONITOR/CEILING MOUNT	MIN. 8'-6 3/8" MAX. 12'-1 11/16"

**ATTENTION:**

— 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.

— 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.

SYM	DATE	DESCRIPTION
△	N/A	TYPICAL REV 9
—ISSUE BLOCK—		

SCOPE  
REV 9

**SIEMENS**  
**SOMATOM SCOPE**  
TYPICAL FINAL DRAWING SET

THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW.

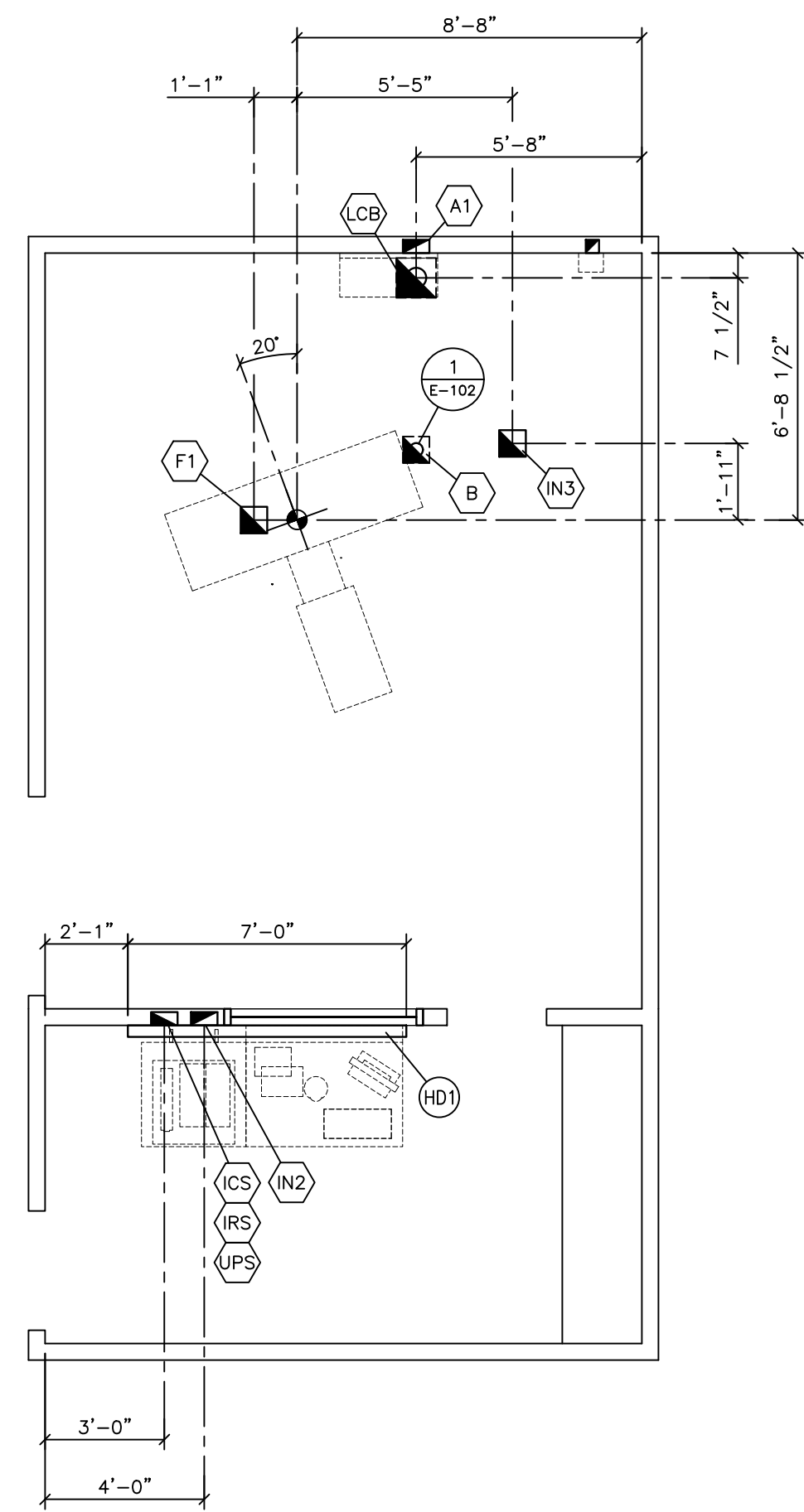
PROJECT #: **14048** SHEET: **E-101**

SHEET 4 OF 5 DRAWN BY: L. BACH

DATE: \_\_\_\_\_ REF. #:

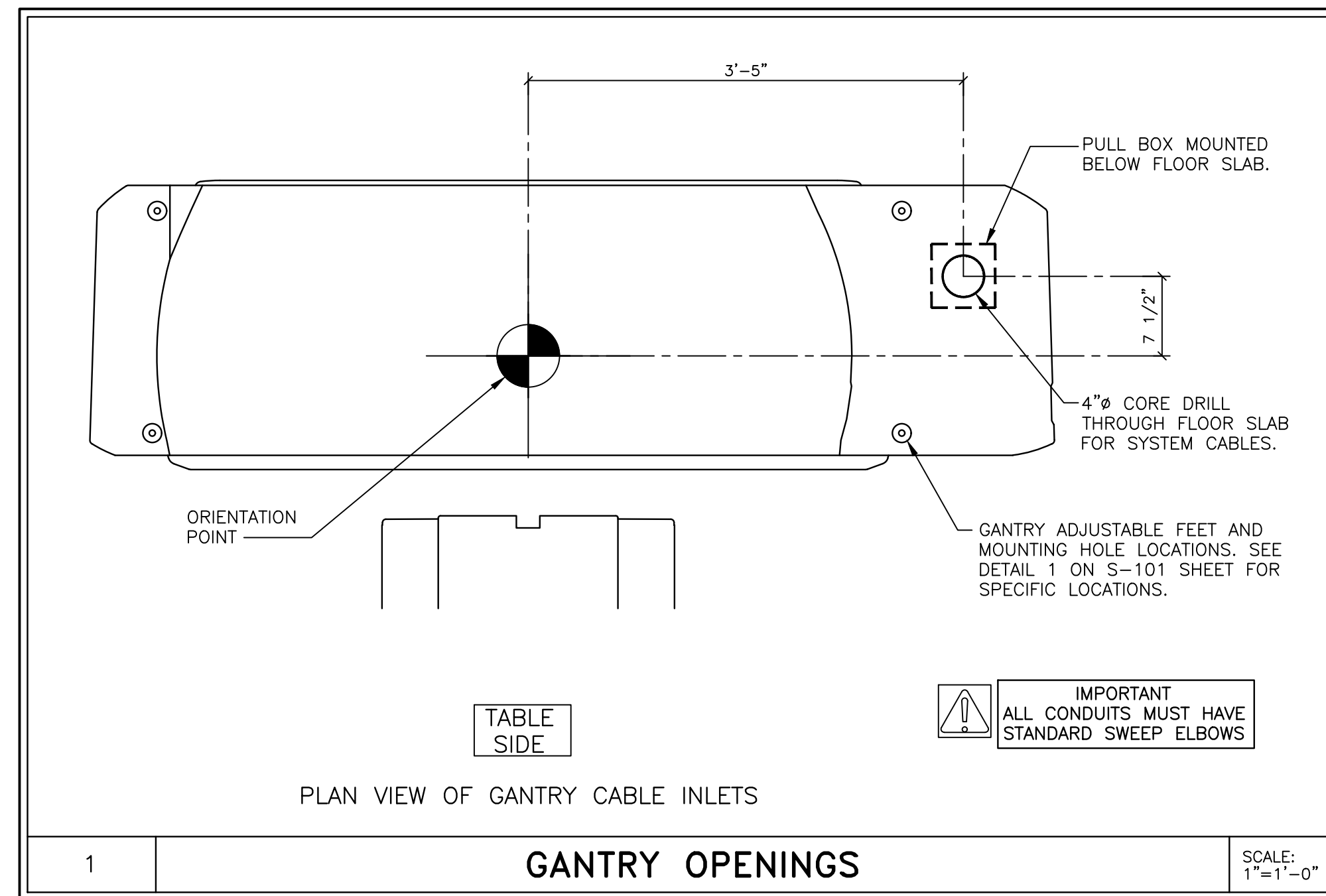
SCALE: AS NOTED

REFERENCE DOCUMENT - NOT FOR CONSTRUCTION



**ELECTRICAL DIMENSION PLAN**

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



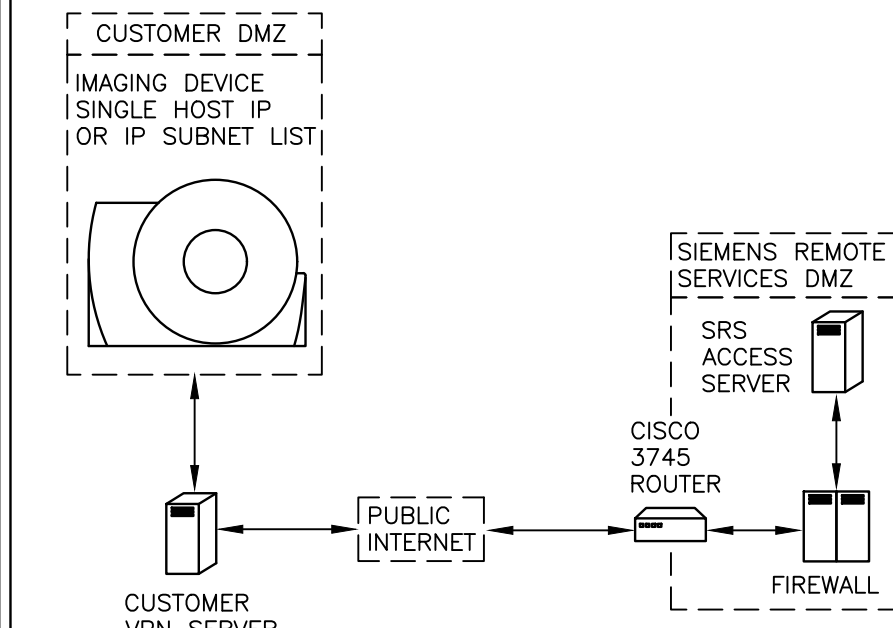
**PLAN VIEW OF GANTRY CABLE INLETS**

SCALE: 1"=1'-0"

**SIEMENS REMOTE SERVICE**

TO ENSURE THE UPTIME OF YOUR SYSTEM DURING THE WARRANTY PERIOD (AND BEYOND WITH A SERVICE AGREEMENT), SIEMENS REMOTE SERVICES (SRS) REQUIRES REMOTE LOCAL AREA NETWORK ACCESS TO SIEMENS SYSTEMS.

THE PREFERRED CONNECTION METHOD IS (VPN) VIRTUAL PRIVATE NETWORK (WHERE THE CUSTOMER HAS AVAILABLE A VPN CAPABLE FIREWALL OR OTHER VPN APPLIANCE). THIS METHOD PROVIDES THE POSSIBILITY FOR REMOTE SYSTEM DIAGNOSTICS WITHOUT ADDITIONAL HARDWARE. PLEASE CONTACT SIEMENS REMOTE SERVICES (800-888-SIEM) TO DETERMINE IF THIS METHOD IS SUITABLE FOR YOUR SITE.



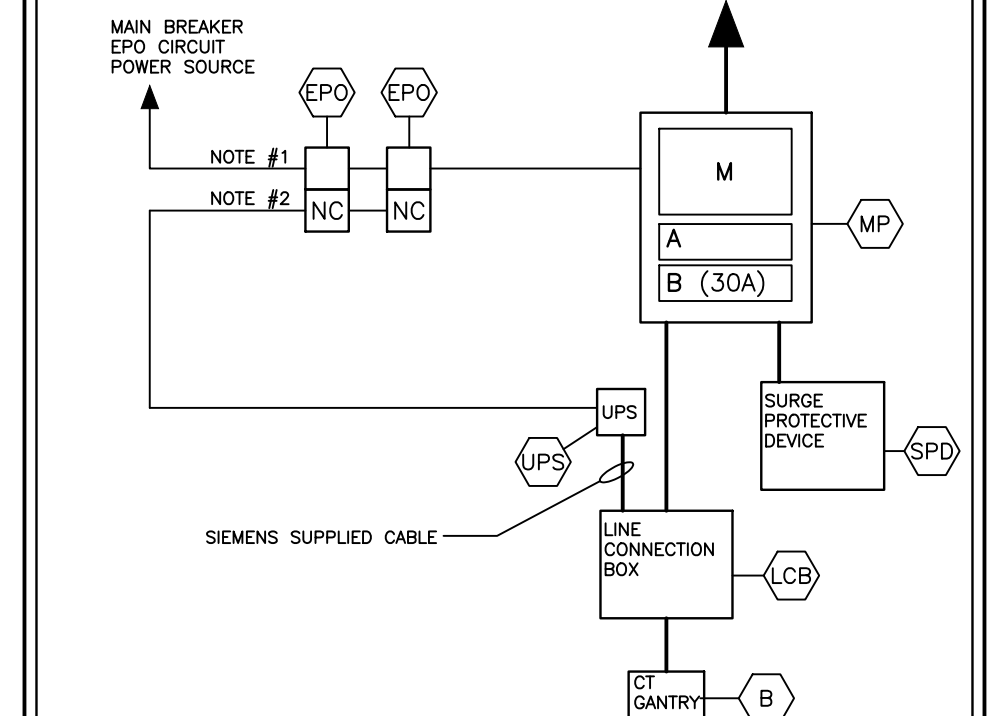
**GROUNDING NOTES**

EQUIPMENT GROUND CONDUCTOR TO COMPLY WITH THE FOLLOWING:

- 1) SIZED EQUIVALENT TO THE PHASE CONDUCTORS (FULL SIZED GROUND).
- 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  $\leq 500mA$  DURING OPERATION OF THE IMAGING EQUIPMENT.

**POWER SCHEDULE**

ALL CONDUITS AND WIRES SIZES MUST BE DETERMINED BY THE ELECTRICAL ENGINEER OF RECORD PER N.E.C. AND TO MAINTAIN SIEMENS IMPEDANCE REQUIREMENTS.



ITEM	QTY	DESCRIPTION	VOLTS	PHASES	NEUTRAL	GROUND	TOTAL WIRES
MP	1	MAIN PANEL WITH CIRCUIT BREAKERS FLUSH OR SURFACE MOUNTED.					
M	1	MAIN BREAKER MUST HAVE TRIPPING DEVICE SO WHEN ANY EPO IS PRESSED THE BREAKER TRIPS. MAIN BREAKER AMPS: SEE POWER REQUIREMENTS	480/277Y	3	1	1	5
A	1	BREAKER AMPS: FOR GANTRY "B" SEE POWER REQUIREMENTS	480/277Y	3	1	1	5
B	1	BREAKER AMPS: 30 (FOR SURGE PROTECTIVE DEVE "SPD") (THIS BREAKER WILL NOT BE NEEDED IF THE SURGE PROTECTIVE DEVICE IS NOT PURCHASED)	480/277Y	3	1	1	5

PHASE AND NEUTRAL WIRES TO BE THE SAME SIZE. GROUND PER NEC. UNLESS OTHERWISE NOTED ALL BREAKERS WILL BE 80% RATED.

**EPO** VARIES  
 NOTE 1 - EPO CIRCUIT #1  
 MAIN CIRCUIT BREAKER EMERGENCY POWER OFF BUTTON WITH PROTECTIVE COVER THAT PREVENTS ACCIDENTAL ACTVATION. THE EPO MUST BE OF FAIL-SAFE DESIGN. ALL EPO'S TO HAVE MECHANICAL LATCHING MECHANISM. EPO MUST BE RESET BEFORE MAIN BREAKER CAN RESUME OPERATION. CONTACTS AND WIRING CONFIGURATION TO BE DESIGNED BY ELECTRICAL ENGINEER OF RECORD.  
 NOTE 2 - EPO CIRCUIT #2  
 EPO CONTACTS TO BE NORMALLY CLOSED, WIRED IN SERIES, CONNECTED TO CT UPS ONLY.  
 THE EPOs MUST BE INSTALLED BY A QUALIFIED ELECTRICAL CONTRACTOR ACCORDING TO NATIONAL ELECTRICAL CODE, STATE AND LOCAL REGULATIONS. MEASURES SHOULD BE TAKEN TO DESIGN THE CIRCUIT IN SUCH A WAY THAT IT WILL ALWAYS WORK WHEN THE MEDICAL EQUIPMENT IS POWERED. THE CUSTOMER IS SOLELY RESPONSIBLE FOR THE IMPLEMENTATION OF THE EPOs AND THEIR ASSOCIATED CIRCUITS AND MUST MAKE THE FINAL DETERMINATION CONSIDERING ALL SITE CONDITIONS AND REGULATORY FACTORS.

UNLESS OTHERWISE NOTED, ALL ITEMS LISTED IN THIS SCHEDULE SHALL BE SUPPLIED AND INSTALLED BY CUSTOMER/CONTRACTOR. REV 3

FINISHED ROOM HEIGHT	
FOR CT GANTRY ONLY	MINIMUM 7'-6 9/16"
CAREVISION MONITOR/CEILING MOUNT	MIN. 8'-6 3/8" MAX. 12'-1 11/16"

SYM	DATE	DESCRIPTION
△	N/A	TYPICAL REV 9
-ISSUE BLOCK-		

SCOPE  
REV 9

**SIEMENS**  
**SOMATOM SCOPE**  
TYPICAL FINAL DRAWING SET

THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW.

PROJECT #: **14048** SHEET: **E-102**

ALL RIGHTS ARE RESERVED.

SCALE: AS NOTED REF. #:

SHEET 5 OF 5 DRAWN BY: L. BACH DATE:

**ATTENTION:**

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REFERENCE DOCUMENT - NOT FOR CONSTRUCTION