

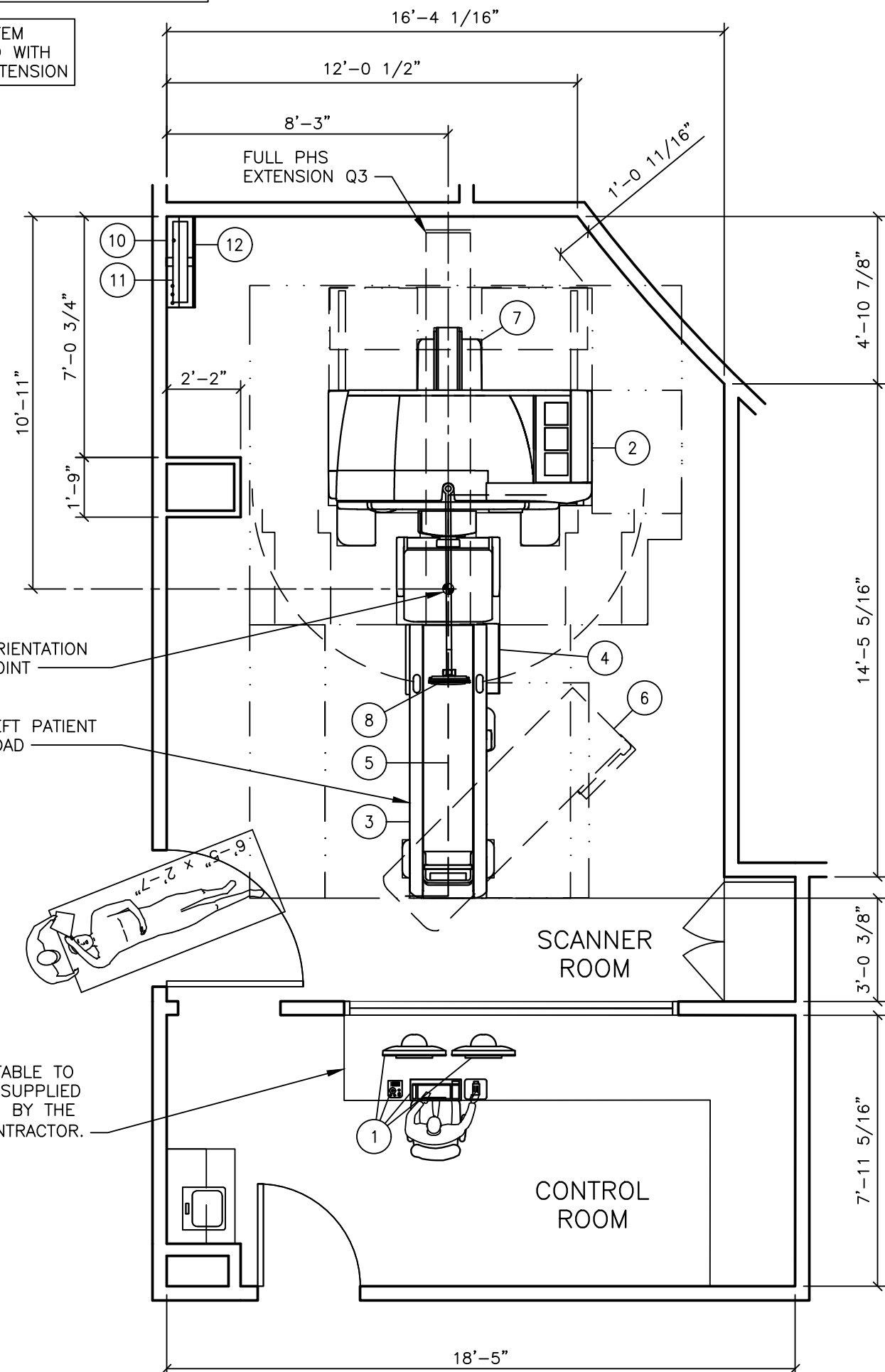
THIS SET OF FINAL DRAWINGS IS REFLECTIVE OF THE LATEST SALES CONFIGURATION. ANY CHANGES TO THIS SALES CONFIGURATION MAY REQUIRE A REVISION TO THIS PROJECT PLAN. IF REQUESTED, SIEMENS WILL PRODUCE A REVISED SET OF FINAL DRAWINGS TO REFLECT THE CHANGES, HOWEVER SIEMENS IS NOT RESPONSIBLE FOR ANY CONSTRUCTION COSTS ASSOCIATED WITH THE CHANGES THAT OCCUR FROM THIS PLAN MODIFICATION.

SIEMENS HIGHLY RECOMMENDS THE CUSTOMER'S ARCHITECT DESIGNATES SPACE FOR A HOT LAB, PATIENT WAITING AREA, AND UPTAKE ROOM.

HEIGHT OF WINDOW TO BE COORDINATED WITH COUNTERTOP/DESK HEIGHT.

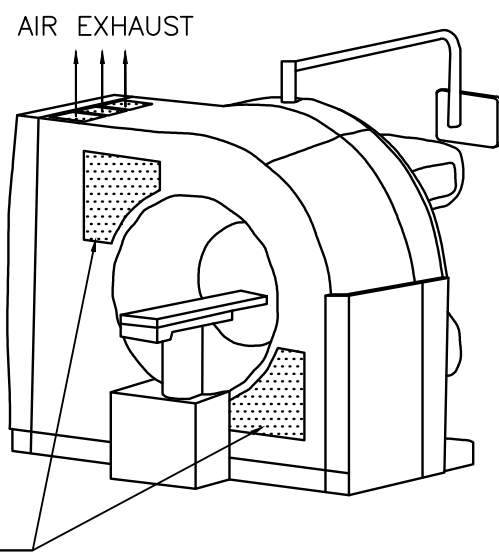
STRETCHER SIZE (6'-5" X 2'-7") SHOWN IS FOR REFERENCE ONLY. VERIFICATION AND COORDINATION BY CUSTOMER IS REQUIRED TO ENSURE PROPER TRANSPORT AND WORKFLOW ACCESS.

Q3 SYSTEM PLANNED WITH FULL EXTENSION



ENVIRONMENTAL REQUIREMENTS

NO EXTERNAL HARDWARE CONNECTION ARE REQUIRED FOR ARI GANTRY COOLING. A GENERAL OVERVIEW OF THE ARI COLLOING FUNCTION IS SHOWN BELOW.



AIR TEMPERATURE (AIR INTAKE)	MINIMUM 65°F TO 86°F MAXIMUM
TEMPERATURE GRADIENT	8°F/HOUR
HUMIDITY	20% TO 75% NON CONDENSING
AIR FLOW RATE (THROUGH THE GANTRY)	SYMBIA Pro.specta Q3 AND X3 1300 m ³ /PER HOUR (0 m.o.s.i.) SYMBIA Pro.specta X7 1600 m ³ /PER HOUR (2000 m.o.s.i.) SYMBIA Pro.specta X7 1800 m ³ /PER HOUR (0 m.o.s.i.)
BAROMETRIC PRESSURE	800 hPa TO 1060 hPa
INSTALLATION ALTITUDE	MAXIMUM 2000 m a.s.l.

TEMPERATURE RANGES FOR THE SCANNER ROOM AND CONTROL CANNOT BE GUARANTEED IN ALL SEASONS OF THE YEAR, AN APPROPRIATE AIR-CONDITIONING AND HEATING SYSTEM MUST BE INSTALLED ON-SITE BY THE CUSTOMER/CONTRACTOR.

FOR EXTERNAL AIR SUPPLY (FRESH AIR) IT IS RECOMMEND THAT COURSE FILTERS OF THE CLASS EU3 TO EU4 BE USED ON-SITE TO FILTER OUT DUST PARTICLES >10µm.

THE VENTILATION SHOULD ENSURE THAT AGGRESSIVE POLLUTANTS ARE PREVENTED FROM ENTERING THE ROOM. THE ROOM AIR SHOULD BE PROTECTED AGAINST CONTAMINATION BY HYDROGEN SULFIDE, EVEN IN SMALL AMOUNTS. THE MOST WELL KNOWN SOURCES OF HYDROGEN SULFIDE INCLUDE: EXHAUST FUMES AND WASTE WATER FROM DEVELOPERS, EXPOSED SEWER DRAINS, EXHAUST FUMES FROM DIESEL POWER UNITS. IF A DANGER OF SUCH CONTAMINATION EXISTS, CORRECTIVE ACTIONS HAVE TO BE TAKEN E.G.: EXTRACTOR FANS, SIPHON, AND MODIFICATION OF VENTILATION INTAKE.

NO SUNSHINE DIRECTLY ON THE SYSTEM, THE INSULATION TO BE APPLIED ON THE WINDOW(S), E.G. CURTAINS).

RADIOACTIVE SOURCES

THE FOLLOWING RADIOACTIVE SOURCES ARE REQUIRED AT THE TIME OF DELIVERY FOR CALIBRATION:

SHEET SOURCE SHOULD MEASURE >10 mCi Co57 (COBALT 57) AT THE TIME OF INSTALLATION. SOURCE SHOULD BE NO MORE THAN 4 MONTHS FROM REFERENCE DATE (THE DATE SOURCE WAS FILLED).

30 mCi Tc99m (TECHNETIUM 99)

AQC OPTION: GADOLINIUM-153 (Gd-153) AND AND Co57 POINT SOURCE

xSPECT QUANT: SELENIUM-75 (Se-75) Sn-113 AND/OR Co57 PRECISION SOURCE DEPENDING ON OPTIONS, COLLIMATOR CHOICES

IT IS CUSTOMER'S RESPONSIBILITY TO OBTAIN THESE SOURCES.

SOURCE PROVIDERS WILL NOT SHIP SOURCES TO SITE WITHOUT A VALID RAM LICENSE.

RAM LICENSE

RAM LICENSE NEEDS TO BE APPLIED FOR THROUGH GOVERNMENT AGENCY AS EARLY AS POSSIBLE. PLEASE ADDRESS WITH YOUR RSO (RADIATION SAFETY OFFICER).

RAM LICENSE MUST BE OBTAINED NO LATER THAN 4 WEEKS AHEAD OF SCHEDULED DELIVERY. DELAY OF INSTALLATION MAY OCCUR IF SITE HAS NOT OBTAINED RAM LICENSE AT THIS TIME. RADIOACTIVE SOURCES NEEDED TO COMPLETE CALIBRATION OF EQUIPMENT WILL NOT BE SHIPPED TO SITE WITHOUT VALID RAM LICENSE.

EQUIPMENT LEGEND

NO	DESCRIPTION	SMS SYM	WEIGHT (LBS)	BTU/HR TO AIR	DIMENSIONS (INCHES)			REMARKS
					W	D	H	
1	23" FLAT SCREEN WITH DUAL MONITORS, KEYBOARD AND CONTROL DEVICE	Ⓐ	20	-	22 1/2	3 3/8	17 1/2	ON TOP OF WORKPLACE AREA
2	SYMBIA Pro.specta Q3 W/COLLIMATORS	Ⓑ	8,690	21,155	92 3/4	76 3/4	88 3/4	WORST CASE WEIGHT 8,690 LBS. WITH (2) HIGH ENERGY COLLIMATORS AT 275 LBS. EACH
3	FRONT PHS	Ⓒ	1,846	-	32 1/2	96 1/4	21 1/4	MAXIMUM HEIGHT 46.3"
4	AUTOMATIC COLLIMATOR CHANGER - ACC WITH AQC - PRODUCTIVITY PACKAGE	Ⓓ	714	-	33	24 1/2	24 1/2	WEIGHT CALCULATED WITH 1 SET LOW AND MEDIUM ENERGY COLLIMATORS.
5	UNDER THE FLOOR PHS CABLE	Ⓔ	-	-	-	-	-	UNDER FLOOR
6	PHS EXTENDED 45 DEGREE PIVOT	Ⓕ	-	-	-	-	-	EXTENDED PIVOT - 45 DEGREES
7	REAR PHS	Ⓖ	403	-	24 1/2	41 3/4	30 1/2	ON FLOOR MAXIMUM HEIGHT
8	PATIENT BOOM SWING ARM	Ⓗ	-	-	-	-	-	MOUNTED ON TOP OF GANTRY
9	COLLIMATOR CART (EMPTY)	Ⓘ	400	-	43	32 1/2	40	WORST CASE 1372.7 LBS. WITH 1 SET HE AND 1 SET ME
10	INTEGRATED ELECTRICAL CABINET	Ⓙ	428	512	32	9 3/4	48	WALL MOUNTED
11	UNINTERRUPTIBLE POWER SUPPLY - UPS	Ⓚ	106	1,365	28 1/2	5 1/8	17 1/4	PLACED IN UPS CABINET
12	UPS CABINET	Ⓛ	78.5	-	32	10	25	MOUNTED ON THE FLOOR OR WALL

Project Milestones To Be Completed Before Equipment Delivery		Reference Sheet
<input type="checkbox"/>	Radioactive Materials License (RAM) license obtained and reviewed 4 weeks before delivery	A-101/A-102
<input type="checkbox"/>	Radioactive Sources of required material and activity available at time of install	A-101/A-102
<input type="checkbox"/>	>10 mCi Co57 (Cobalt 57) Sheet Source at the time of Installation - Source should be no more than 4 months from reference date (the date source was filled)	A-101/A-102
<input type="checkbox"/>	30 mCi Tc99m (Technetium 99)	A-101/A-102
<input type="checkbox"/>	Lead shielding (walls, doors, windows) complete	A-101/A-102
<input type="checkbox"/>	Climate control functioning 24 hours a day, 7 days a week	A-101
<input type="checkbox"/>	All rooms containing Siemens equipment are clean and dust free	A-101
<input type="checkbox"/>	Casework complete in exam and control rooms	A-101
<input type="checkbox"/>	Ceiling height verified (check min. height)	A-101/S-102
<input type="checkbox"/>	Network addresses obtained for Siemens Remote Services (SRS)	A-102
<input type="checkbox"/>	Delivery path verified	A-102/A-501
<input type="checkbox"/>	Floor levelness verified and within specifications	S-101/S-501
<input type="checkbox"/>	Floor thickness verified and within specifications	S-101/S-501
<input type="checkbox"/>	Overhead injector support structure and plate installed (option)	S-102
<input type="checkbox"/>	Power Requirements reviewed and verified	E-101/E-102
<input type="checkbox"/>	Cable runs checked to ensure maximum length not exceeded	E-101
<input type="checkbox"/>	Cable inlets installed in locations per plans	E-101/E-102
<input type="checkbox"/>	Cable outlets duct and floor openings per plans	E-101/E-102
<input type="checkbox"/>	Contractor supplied electrical outlets/receptacles	E-101
<input type="checkbox"/>	Contractor supplied electrical cabling and pigtails installed	E-101
<input type="checkbox"/>	Main Panel and breakers installed	E-101/E-102
<input type="checkbox"/>	IEC cabinet and/or UPS cabinet installed (option)	E-101/E-102
<input type="checkbox"/>	Contractor supplied X-Ray warning light and wiring installed	E-101/E-102
<input type="checkbox"/>	Contractor supplied EPO's installed and functioning	E-102

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 ENROACH 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.

ILLUMINATION

NO 'SUNSHINE' DIRECTLY ON THE SYSTEM DUE TO INFRARED SENSITIVE DEVICES, LIGHT FILTERING TO BE APPLIED ON THE WINDOW(S) (E.G. CURTAIN).

DIRECT SUNLIGHT OR INCANDESCENT LIGHTING LIMITED TO 800 LUX.

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.

RESOURCE LIST (SMS USE ONLY)

DESIGNATION	PG NUMBER	DATE
SYMBIA Pro.specta	M05-000.891.01.02.02	09/22

SYMBIA Pro.specta
REV 2

SIEMENS

ST LUKES EAST HOSPITAL

100 NORTHEAST SAINT LUKES BOULEVARD, LEE'S SUMMIT, MO 64086
SCANNER ROOM - SYMBIA PRO.SPECTA Q3

PROJECT #:

2204910

SHEET:

A-101

THE 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. # 30276097

DATE: 03/22/23

DRAWN BY: R. HILL

SYM	DATE	DESCRIPTION
03/22/23	2204910RA DATED 10/12/22 APPROVED BY CUSTOMER FOR FINALS	
-ISSUE BLOCK-		

ARCHITECTURAL EQUIPMENT PLAN

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

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 TO BE PROVIDED BY THE CUSTOMER.

RADIATION SAFETY

LEAD OR EQUIVALENT SHIELDING MAY BE REQUIRED IN THE WALLS OF THE SCANNER ROOM, HOTLAB AND/OR PATIENT PREPARATION AREAS. IT IS THE RESPONSIBILITY OF THE CUSTOMER TO VERIFY WITH THE SITE'S RADIATION SAFETY OFFICER THAT RADIATION DOSE RATES FROM THE SPECT PATIENT AND/OR ISOTOPE WILL NOT EXCEED LOCAL RADIATION SAFETY GUIDELINES IN THE ROOM ADJACENT TO SCANNER, HOTLAB, AND/OR PATIENT PREPARATION AREAS.

IMPROPER SHIELDING MAY AFFECT CAMERA'S PERFORMANCE.

NOISE LEVEL

SYSTEM COMPONENT	DECIBEL LEVEL (AT 3'-3" DISTANCE)
SYMBIA Pro.specta GANTRY (Q3 AND X3)	≤65
SYMBIA Pro.specta GANTRY (X7)	≤66
FRONT PHS	≤60
MONITORS	NOTE 1)
UPS (SPECT GANTRY) (OPTION)	≤62
INTEGRAED ELECTRONICVS CABINET POWER DISTRIBUTOR (OPTION)	≤55

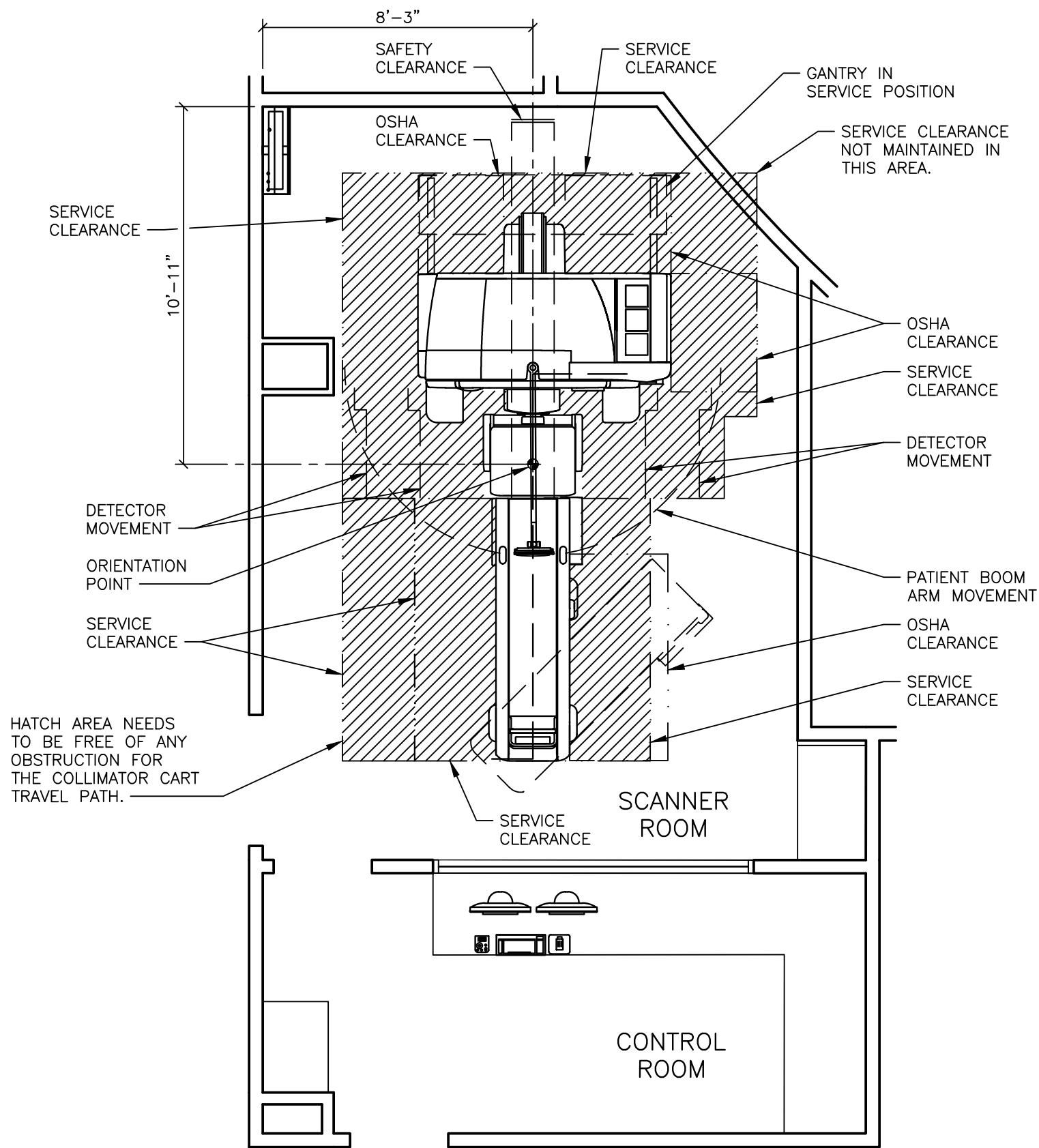
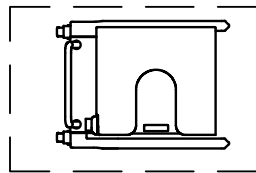
1) NO DATA, MODELS MAY CHANGE (COMMERCIAL GOODS).

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SAFETY/SERVICE CLEARANCE PLAN

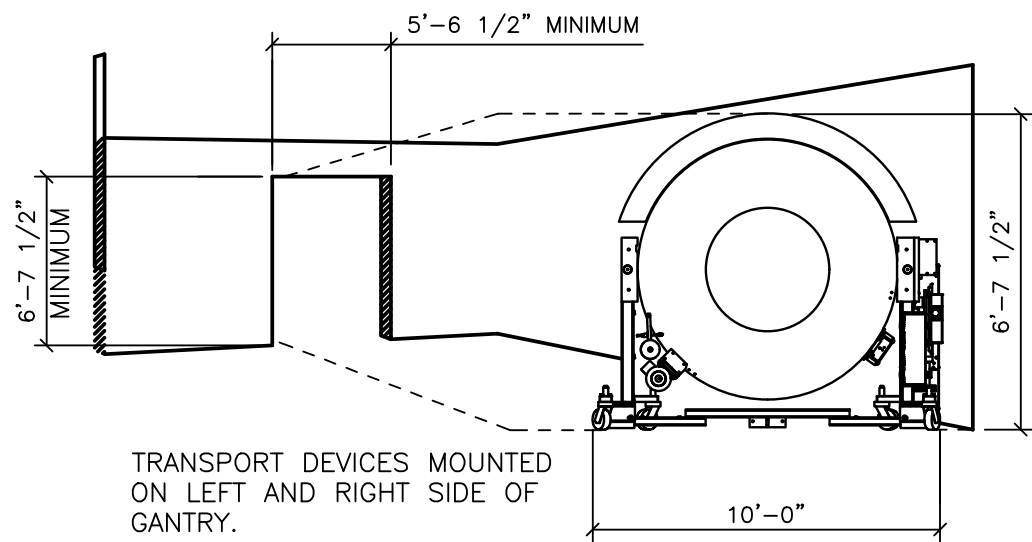
SCALE: 1/4" = 1'-0"

TRANSPORT AND DELIVERY NOTES

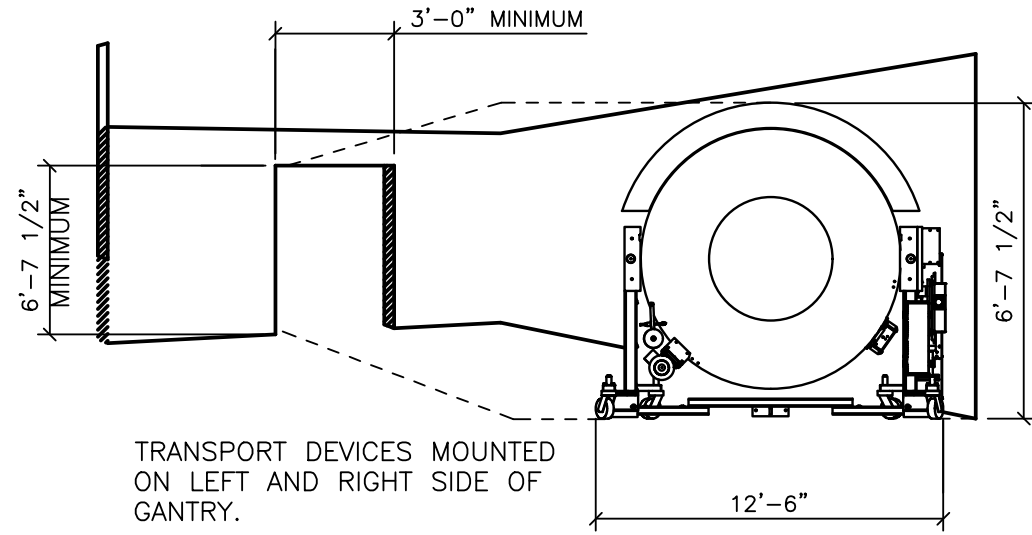
SPECT SUB-SYSTEM	3,943 LBS.
SPECT TRANSPORT	355 LBS.
GANTRY BOOM	23 LBS.
ICC	651 LBS.
CT SUB-SYSTEM	3,219 LBS.
CT TRANSPORT (ADDITIONAL 50 LBS FOR NARROW TRANSPORT)	355 LBS.
FRONT PHS	1,971 LBS.
REAR PHS	462 LBS.

NORMAL TRANSPORT REQUIREMENTS:
DURING THE MOVEMENT OF THE GANTRY THROUGH CORRIDORS THE TRANSPORT CASTERS ARE SWIVELED OUT FOR STABILITY AS SHOWN BELOW. THE MAXIMUM WIDTH IS 6'-1" AND THE MAXIMUM LENGTH 10'-0" WHEN CASTERS ARE SWIVELED.

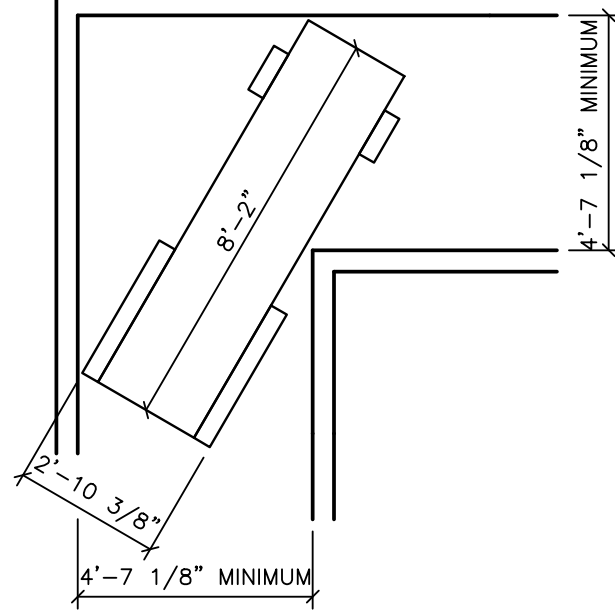
HALLWAY TO DOOR TRANSPORT:
TRANSPORTS MAY HAVE TO BE SWIVELED IN NARROW AREAS. ONCE SYSTEM HAS PASSED THROUGH NARROW AREA, THE TRANSPORT ROLLERS MUST BE SWIVELED OUT AGAIN FOR STABILITY.



NARROW TRANSPORT REQUIREMENTS:
DURING THE MOVEMENT OF THE GANTRY THROUGH CORRIDORS THE TRANSPORT CASTERS ARE SWIVELED OUT FOR STABILITY AS SHOWN BELOW. THE MAXIMUM WIDTH IS 3'-10 1/2" AND THE MAXIMUM LENGTH IS 12'-0" WHEN CASTERS ARE SWIVELED.



HALLWAY TRANSPORT FOR FRONT PHS:



TRANSPORTING GANTRY FLOOR LOAD:
ACCESS FLOORS MUST BE LAID OUT TO SUPPORT A LOAD MINIMUM 1789 LBS. DURING TRANSPORT OF THE GANTRY, HIGHER LOADS CAN OCCUR AT INDIVIDUALS POINTS IF THE FLOOR IS NOT LEVEL. COVER THE TRANSPORT PATH WITH SHEET METAL TO DISTRIBUTE THE FLOOR LOAD.

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).

STORAGE CONSIDERATIONS

THE CLIMATE REQUIREMENTS FOR STORING THE SYSTEM ARE IDENTICAL TO THE CLIMATIC REQUIREMENTS FOR TRANSPORTATION.

THE DATA FOR TRANSPORTING AND STORING THE SYSTEM COMPONENTS ARE APPLICABLE ONLY IF THE SYSTEM IS SHIPPED FREE OF DAMAGE IN THE TRANSPORT PACKAGING PROVIDED BY THE MANUFACTURE.

ALL COMPONENTS HAVE TO BE STORED IN THE RESPECTIVE TRANSPORT PACKAGING PROVIDED BY THE MANUFACTURE.

THE TEMPERATURE TOLERANCE MUST REMAIN BETWEEN -4°F TO 120°F, TEMPERATURE CHANGE 7°F PER HOUR, RELATIVE HUMIDITY OF 5% TO 95% AND ABSOLUTE HUMIDITY MAXIMUM 30G/M³(NO CONDENSATION AT ANY TIME). A BAROMETRIC PRESSURE: 700-1060 hPa. MAX STORAGE TIME IS 2 MONTHS.

THE SYSTEMS WILL NEED TO BE STORED IN THE RESPECTIVE TRANSPORT PACKAGING. USE EQUIVALENT PACKAGING FOR INTERMEDIATE STORAGE IF THE ORIGINAL PACKAGING PROVIDED BY THE MANUFACTURE IS NO LONGER AVAILABLE.

WHEN MOVING THE SYSTEM FROM A COLD ENVIRONMENT INTO A WARM ROOM, ALLOW THE SYSTEM TO STABILIZE AT ROOM TEMPERATURE FOR 24 HOURS BEFORE OPENING AND MAKE SURE THE SYSTEM IS DRY BEFORE SWITCHING IT ON.

THE CLIMATE REQUIREMENTS ALSO HAVE TO BE CONSIDERED FOR INTERMEDIATE STORAGE. ELECTRONIC COMPONENTS AND ESPECIALLY THE DETECTOR MODULES ARE SENSITIVE TO TEMPERATURE AND HUMIDITY, WITH HUMIDITY BEING MOST CRITICAL. IF THE THE SYSTEM HAS BEEN UNPACKAGED AND INSTALLED IN A ROOM WITHOUT CLIMATE CONTROL IT MUST BE REPACKED AND SEALED AGAINST HUMIDITY. WITHOUT TEMPERATURE AND HUMIDITY CONTROL, THE HIGH-VALUE COMPONENTS MAY BE DAMAGED DURING STORAGE.

FINISHED ROOM HEIGHT

SYMBIA Pro.specta	RECOMMENDED 8'-0"
	MINIMUM 7'-10" (7'-6" MINIMUM IF DROP CEILING IS AVAILABLE AND MAY PROVIDE 5" ADDITIONAL CLEARANCE TO INSTALL THE GANTRY BOOM).
SYMBIA Pro.specta CEILING MOUNTED COMPONENT	MINIMUM 8'-2" MAXIMUM 12'-0"

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SYM	DATE	DESCRIPTION
03/22/23	2204910RA DATED 10/12/22 APPROVED BY CUSTOMER FOR FINALS	
-ISSUE BLOCK-		

PROJECT MANAGER: MARK BUXTON
TELL: (417) 576-7820 EXT:
VMAIL:
FAX:
EMAIL: MARK.BUXTON@SIEMENS-HEALTHINEERS.COM

ST LUKES EAST HOSPITAL

100 NORTHEAST SAINT LUKES BOULEVARD, LEE'S SUMMIT, MO 64086
SCANNER ROOM - SYMBIA PRO.SPECTA Q3

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SCALE: AS NOTED REF. # 30276097

PROJECT #:
2204910

SHEET 2 OF 7 DRAWN BY: R. HILL

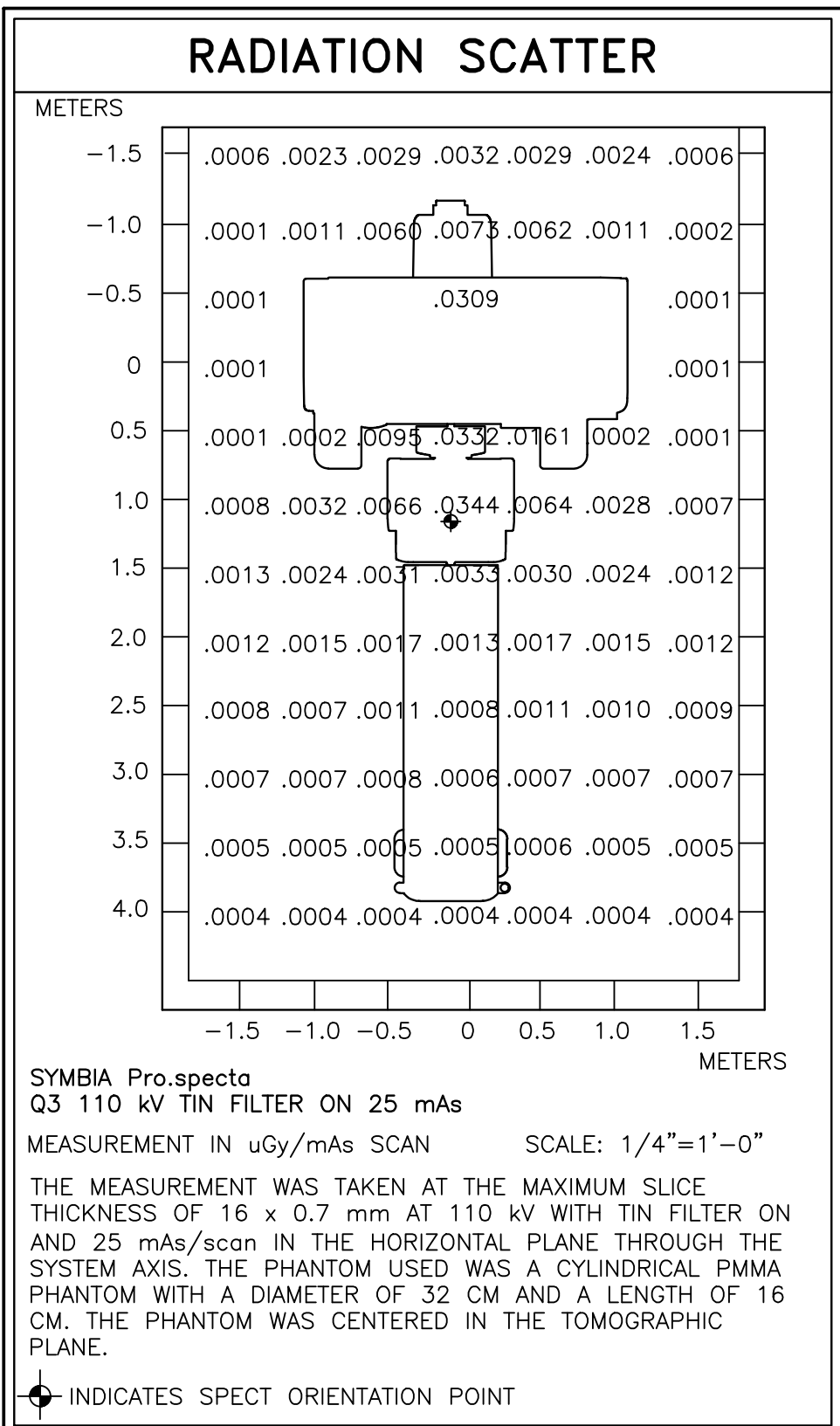
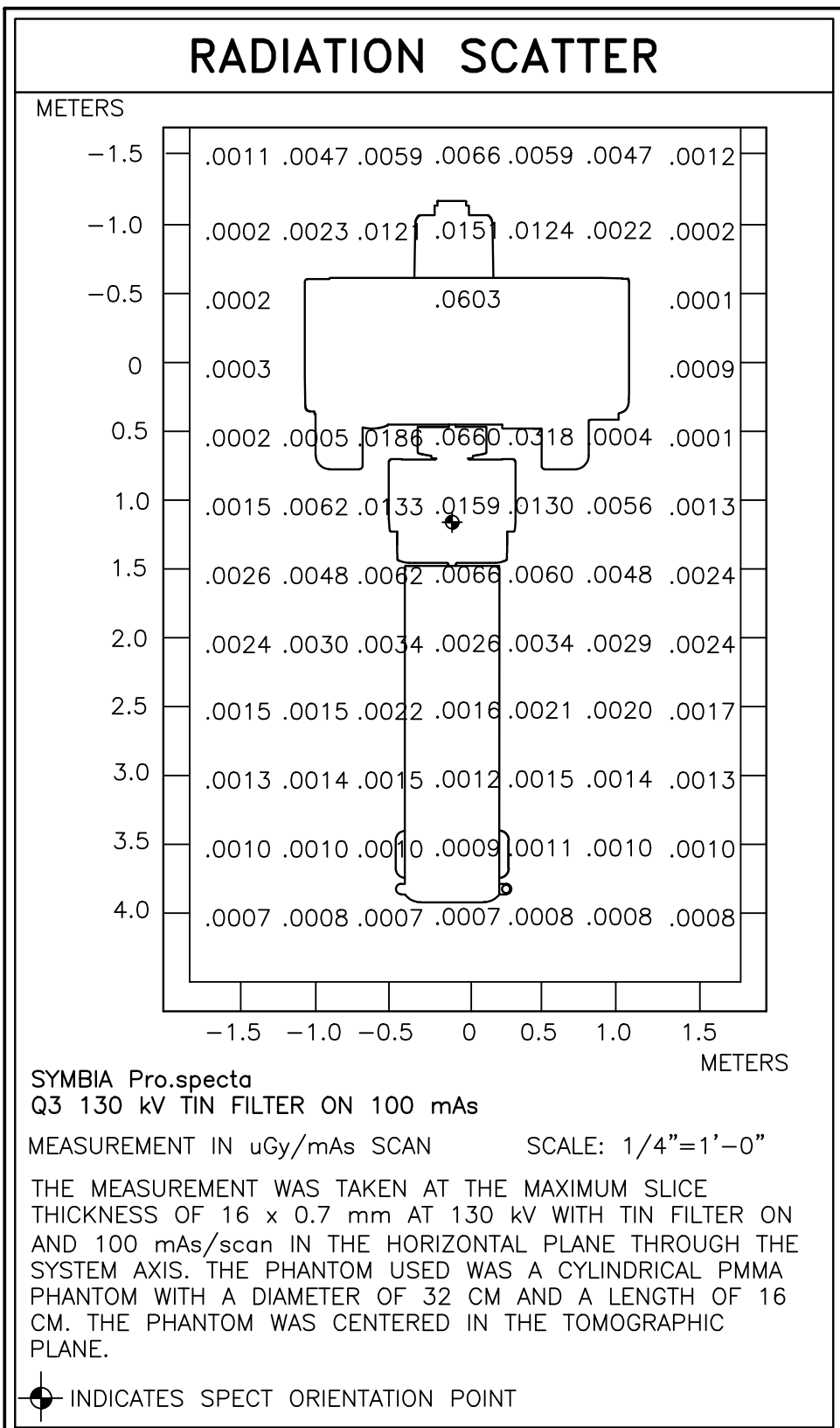
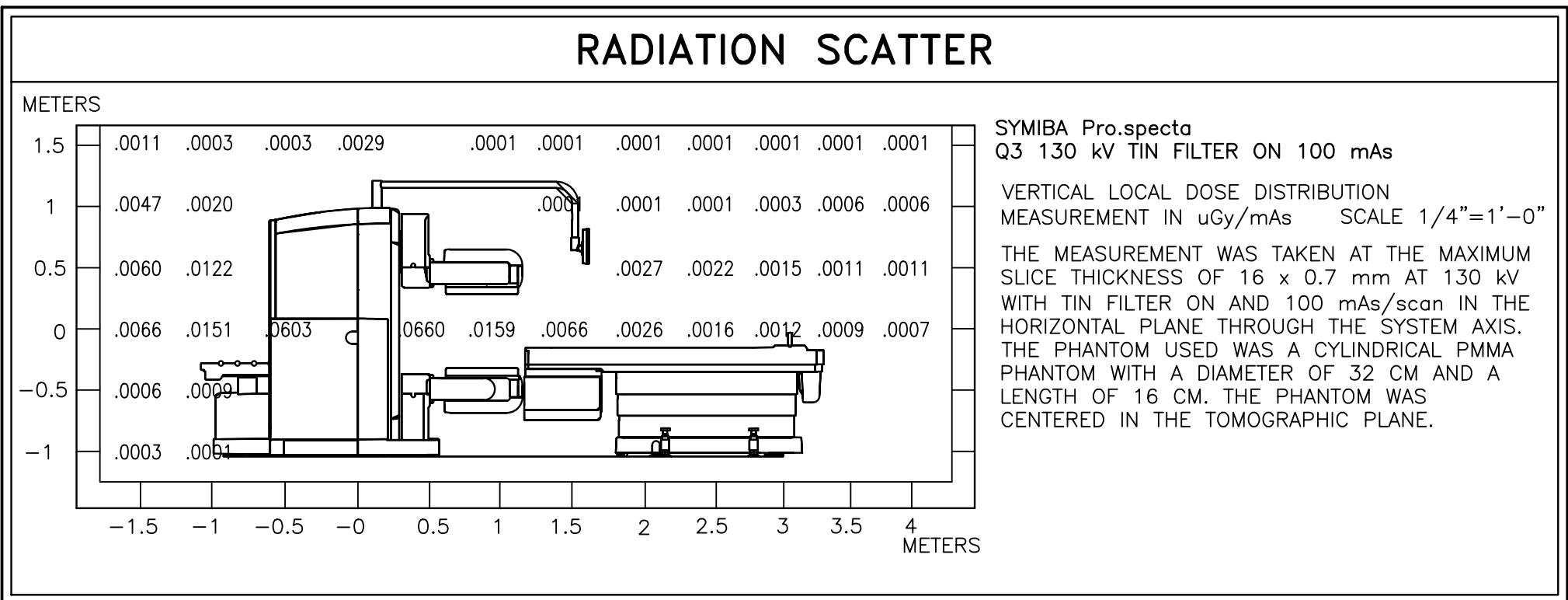
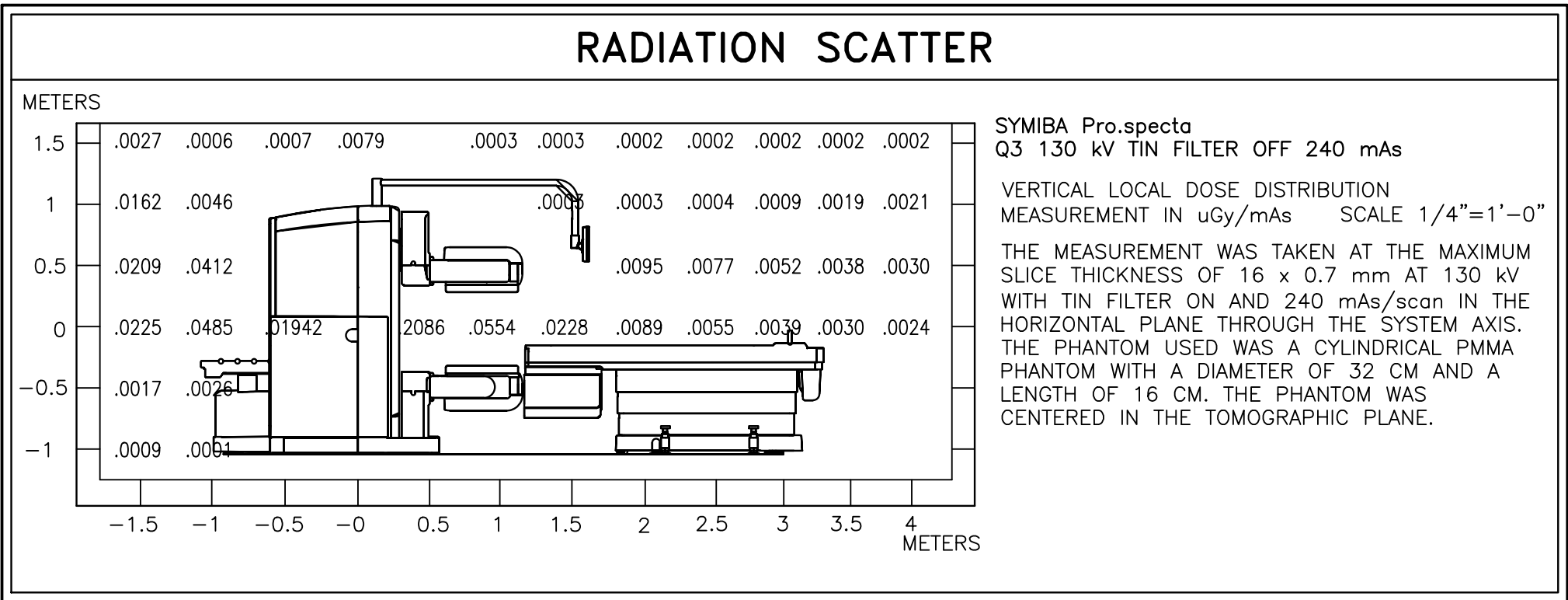
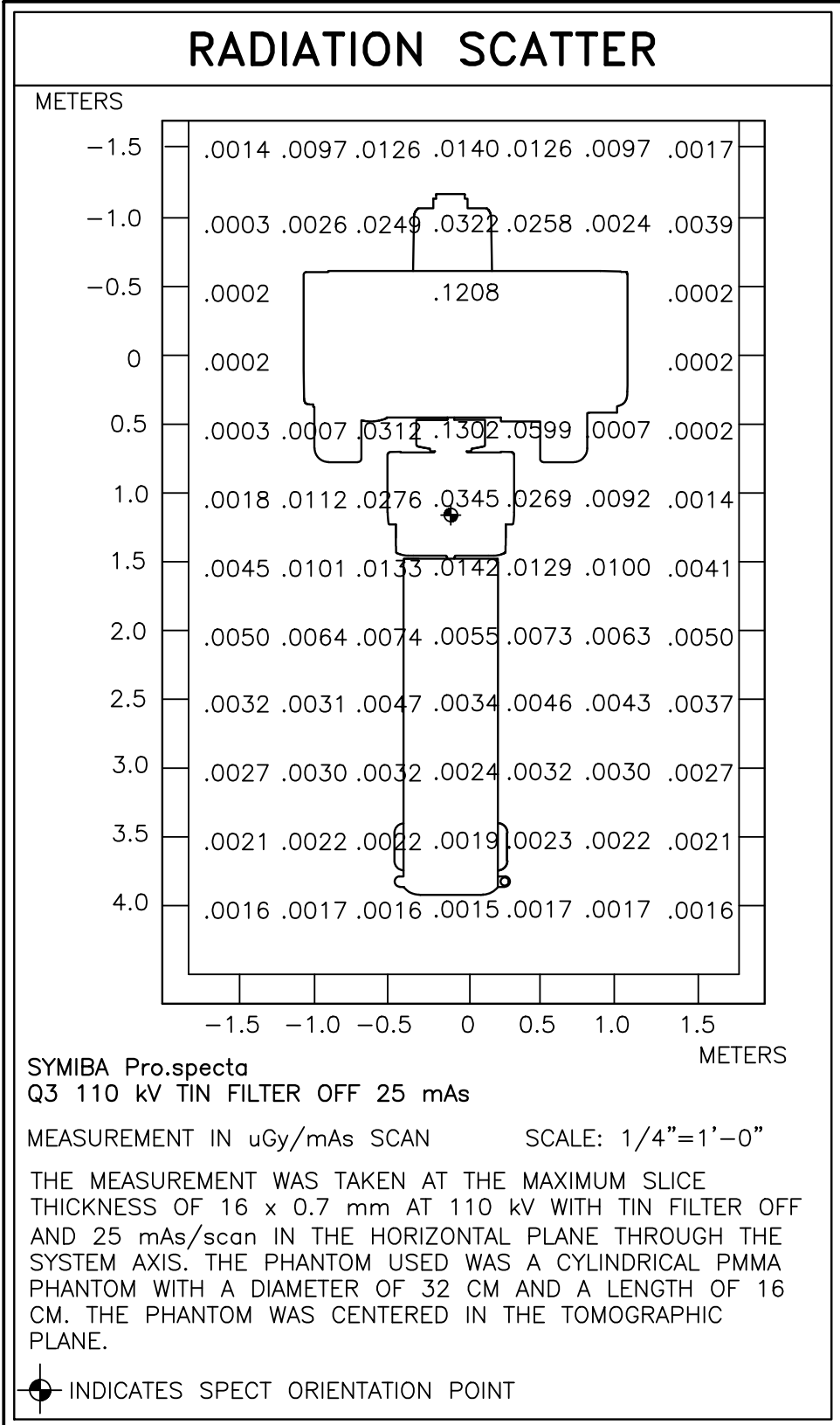
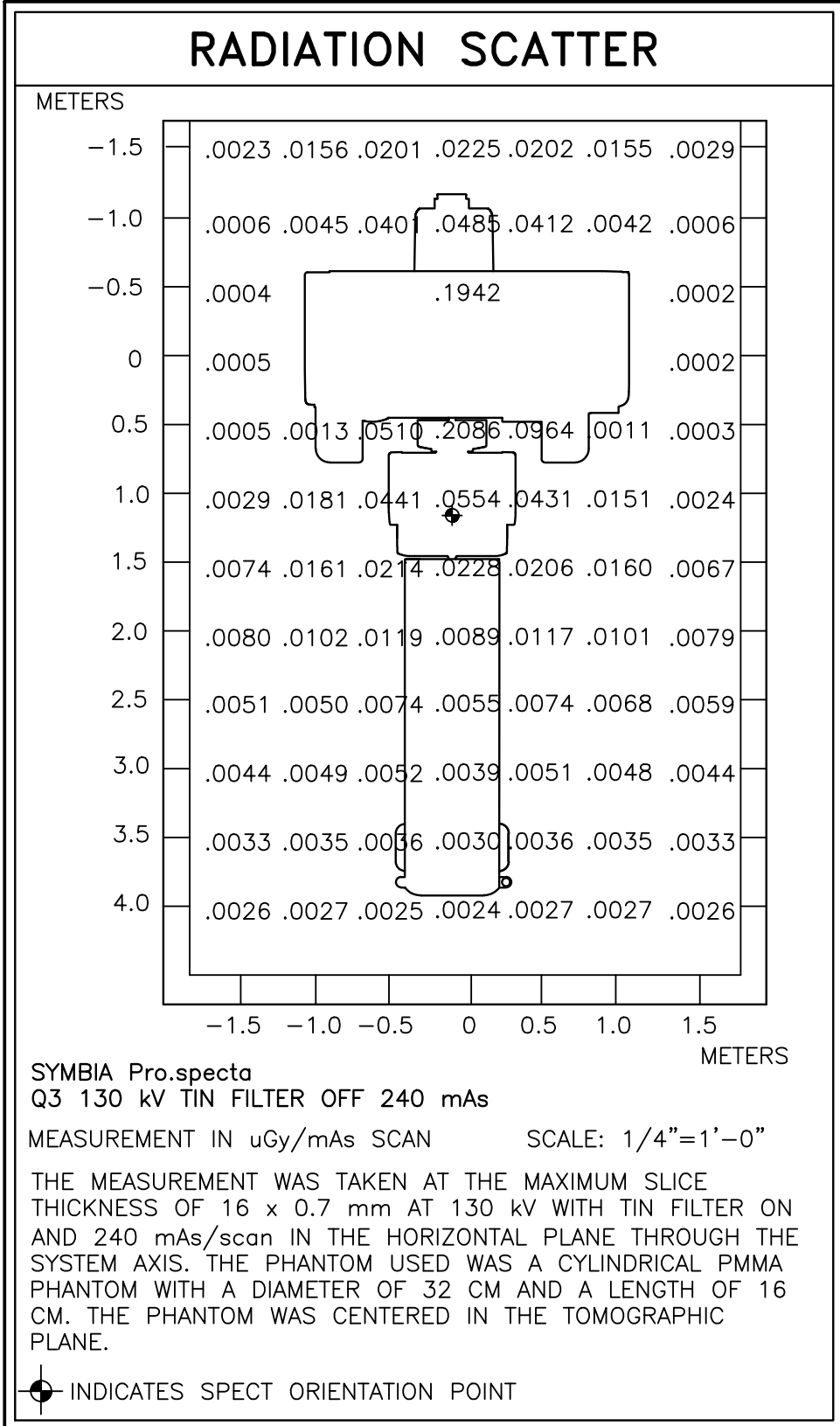
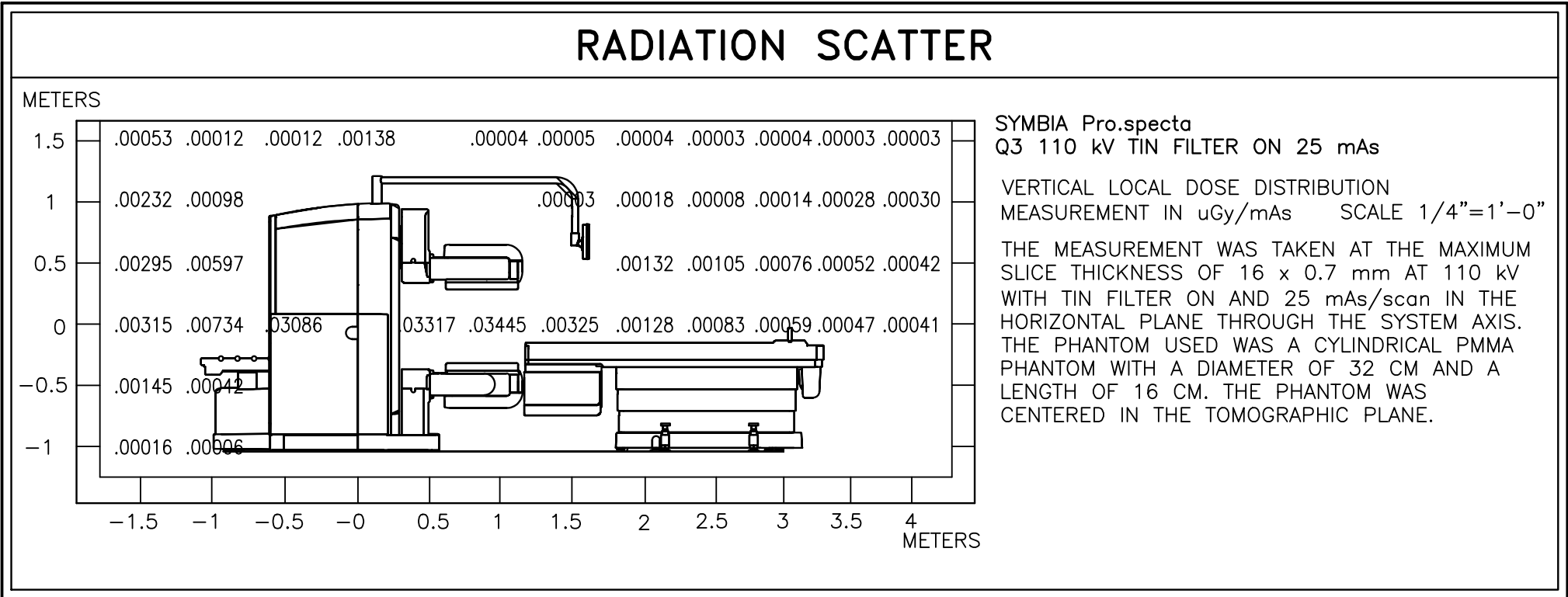
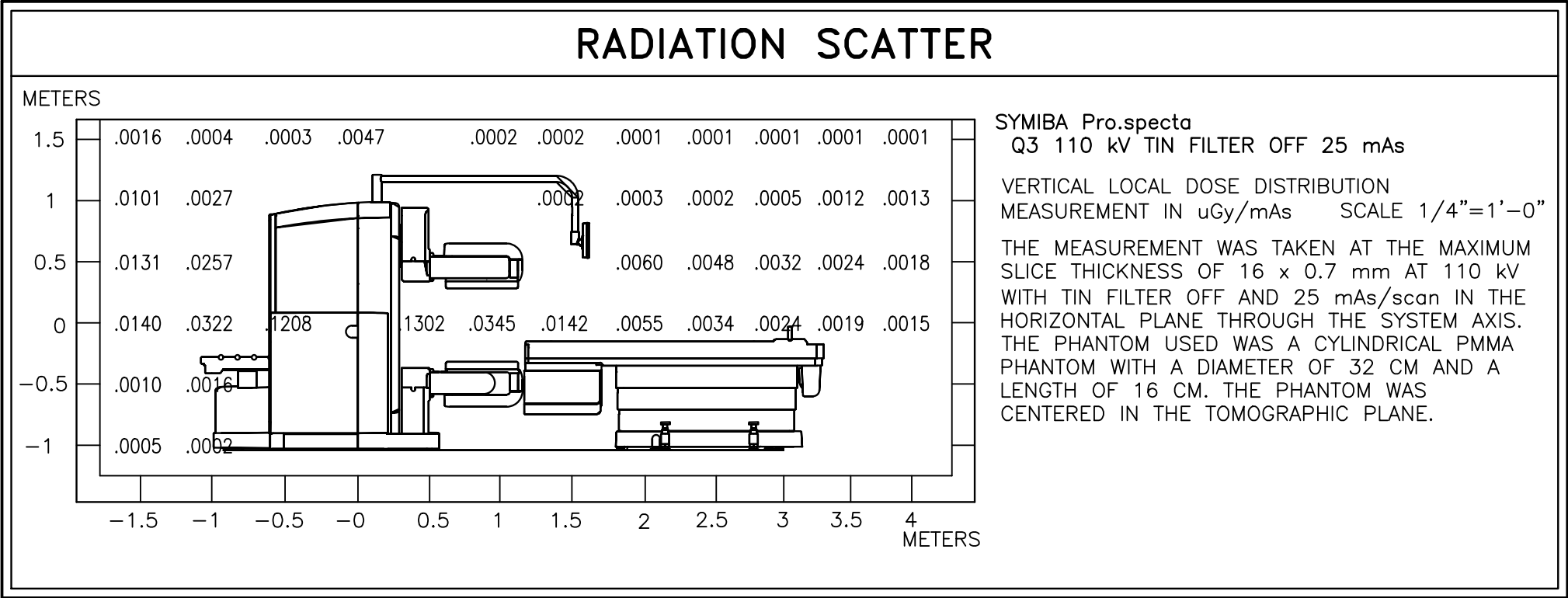
DATE: 03/22/23

SHEET:

A-102

SYMBIA Pro.specta
REV 2

SIEMENS



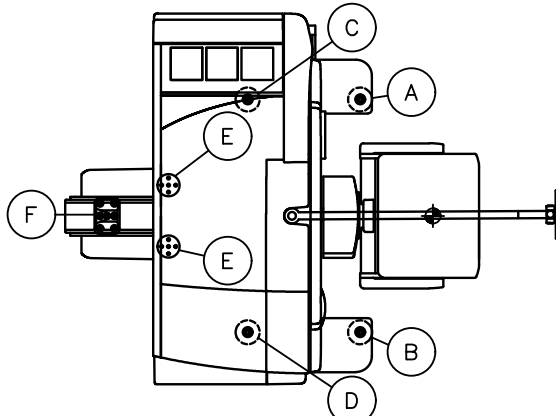
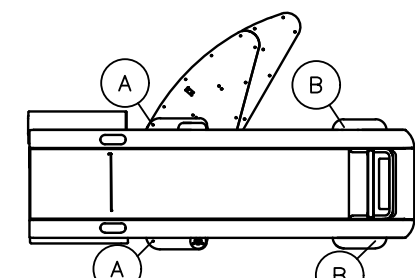
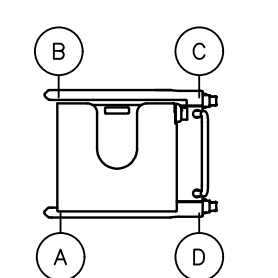
ATTENTION:

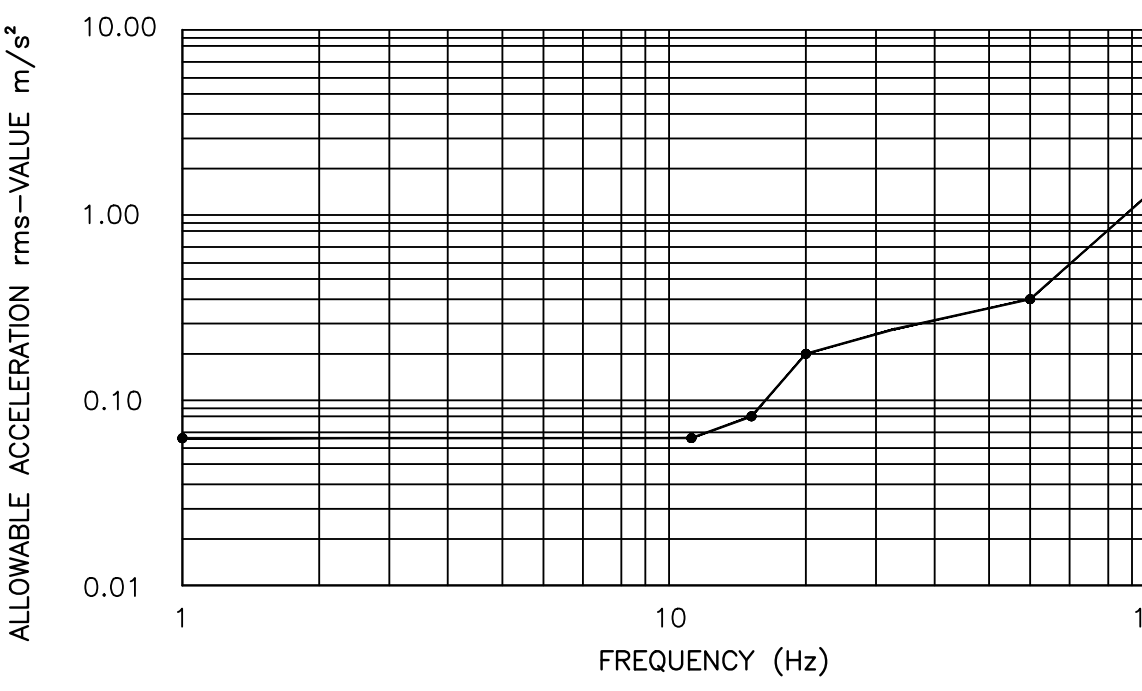
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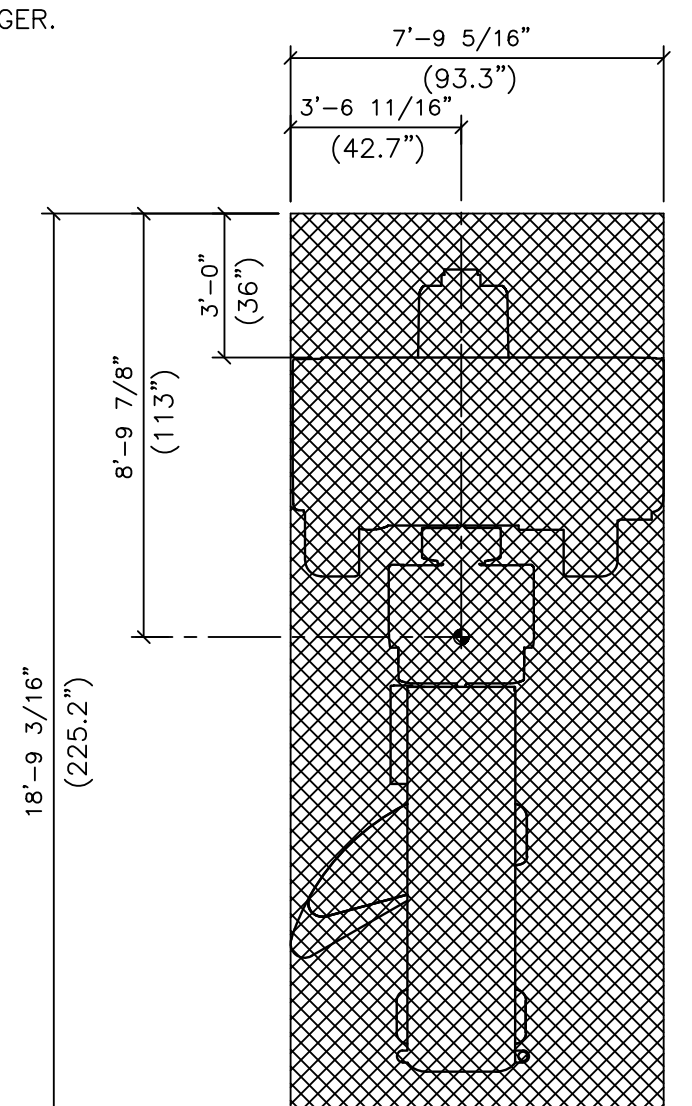
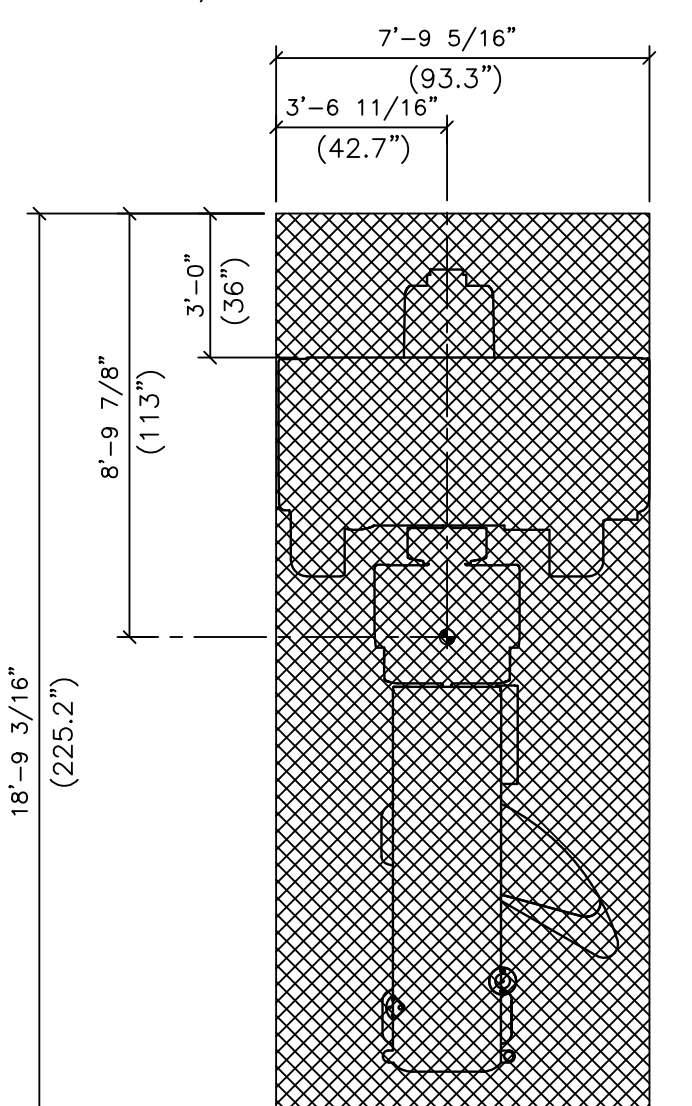
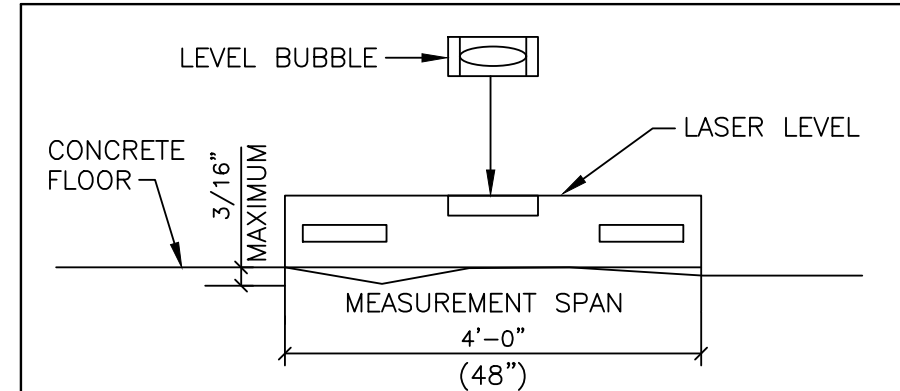
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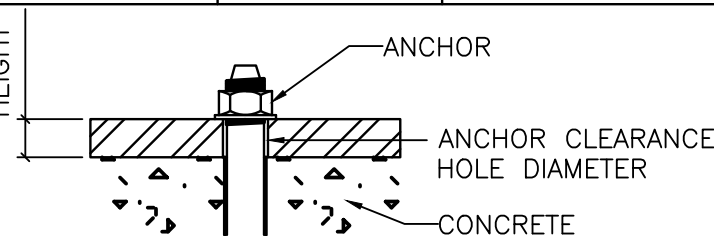
— ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES. — THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. — THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

		PROJECT MANAGER: MARK BUXTON TELEPHONE: (417) 576-7820 FAX: EXT: EMAIL: MARK.BUXTON@SIEMENS-HEALTHINEERS.COM		SIEMENS	
		ST LUKES EAST HOSPITAL 100 NORTHEAST SAINT LUKES BOULEVARD, LEE'S SUMMIT, MO 64086 SCANNER ROOM — SYMBIA PRO.SPECTA Q3			
03/22/23		2204910A DATED 10/12/22 APPROVED BY CUSTOMER FOR FINALS		PROJECT #: 2204910	
SYM		DATE		SHEET 3 OF 7	
— ISSUE BLOCK —		SCALE: AS NOTED		DRAWN BY: R. HILL	
		REF. # 30276097		DATE: 03/22/23	
				SHEET: A-501	

FLOOR LOADING		
GANTRY RESULTS:		
	MEASUREMENT POINTS	MAX. LOAD
	(A)	88 PSI
	(B)	67.3 PSI
	(C)	90.9 PSI
	(D)	69.5 PSI
	(E)	42.1 PSI (REAR PHS WEIGHT PLUS MAX. PATIENT WEIGHT)
PHS RESULTS:		
	MEASUREMENT POINTS	MAX. LOAD
	(A)	1,103 LBS
COLLIMATOR CART RESULTS:		
	MEASUREMENT POINTS	MAX. LOAD
	(A)	406 LBS
	(B)	346 LBS
	(B)	279 LBS
	(B)	328 LBS

FLOOR AND BUILDING VIBRATIONS	
<p>CONTINUOUS VIBRATIONS</p> 	<p>EXTERNAL VIBRATIONS OR SHOCK TRANSMITTED BY THE WALLS OR FLOOR OF THE BUILDING MAY AFFECT THE GANTRY AND DEGRADE IMAGE QUALITY OF THE SYMBA SYSTEM. THEREFORE THE GANTRY AND THE PATIENT HANDLING TABLE MUST BE INSTALLED IN AN ENVIRONMENT FREE OF VIBRATIONS. SOURCES THAT PRODUCE VIBRATIONS ARE RAILROADS, SUBWAYS, ROADS, CONSTRUCTION, POWER PLANTS, MINES, FERRY MOORINGS, AND ANY OTHER SOURCE STRIKING VIBRATIONS.</p> <p>THE SYSTEM IS NOT SENSITIVE TO COMMON VIBRATIONS. IF THE SYSTEM IS AWAY FROM VIBRATIONAL SOURCES, OR THE SYSTEM IS REPLACING A SYSTEM THAT SO FAR HAS NOT HAD ANY IMAGE QUALITY PROBLEMS DUE TO VIBRATIONS, IT IS USUALLY NOT NECESSARY TO MEASURE VIBRATIONS. IF THERE ARE ANY DOUBTS, THE FOLLOWING THRESHOLDS HAVE TO BE VERIFIED VIA MEASUREMENTS</p> <p>IMPULSE LOADS (ALL SYSTEMS): IN ADDITION TO THE NOMINAL FLOOR LOADING (WEIGHT), THE GANTRY ROTATION GENERATES ADDITIONAL 1,200 LBF IMPULSE LOAD PER FOOT DURING STOP AND SHOOT PROCEDURES.</p>
IF THERE ARE ANY DOUBTED, THE FOLLOWING THRESHOLDS HAVE TO BE VERIFIED BY MEASUREMENT:	
IN THE 3 SPATIAL DIRECTIONS, ACCELERATION IN THE VIBRATIONS AT THE MOUNTING POINTS OF THE GANTRY AND PHS MUST NOT EXCEED THE THRESHOLD AS DESCRIBED IN THE FOLLOWING SECTIONS.	
IT IS THE CUSTOMER/CONTRACTOR RESPONSIBILITY TO CONTRACT A QUALIFIED SPECIALIST. THE SPECIALIST MUST IMPLEMENT SITE MODIFICATIONS TO MEET THE SPECIFIC LIMITS AND TO DESIGN STRUCTURAL SOLUTIONS IN CASE OF DEVIATIONS.	
NOTES: THE THRESHOLD IS DEFINED AS ACCELERATIONS rms VALUE (ROOT MEAN SQUARE) IN m/s² OF AN FFT SPECTRUM DERIVED WITH A FREQUENCY RESOLUTION OF 1 Hz AND USING HANNING WINDOW.	
THE VIBRATIONS HAVE TO BE MEASURED WITH A SAMPLING RATE OF 1000 Hz USING ANTIA-LIASING FILTER WITH A LIMIT FREQUENCY OF 250 Hz.	
THE THRESHOLD IS VALID FOR VIBRATIONS AT THE INSTALLATION LOCATION WITH A SYSTEM IN POSITION.	
MEASUREMENTS ARE USUALLY TAKEN AT THE SITE BEFORE INSTALLING THE GANTRY AND PHS. CHANGES IN THE EIGEN FREQUENCY OF THE SLAB CAUSED BY ADDITIONAL MASS OF THE GANTRY AND PHS HAVE TO BE CONSIDERED WHEN COMPARING THE FREQUENCY SPECTRUM WITH THE THRESHOLD.	

PREPARATION/PROCEDURE FOR FLOOR LEVELING AND FLATTENING	
PREPARATION LEVELING AND FLATTENING THE FLOOR AREA	
THE SCANNER ROOM FLOOR MUST BE LEVELED AND THE SURFACE MUST BE SMOOTH. ANY DEVIATION IN LEVELS WILL HAVE A DETRIMENTAL EFFECT ON THE PATIENT HANDLING TABLE (PHS) TO THE GANTRY ALIGNMENT WHICH MAY EFFECT COLLIMATOR EXCHANGE.	
IT IS RECOMMENDED THAT THE FLOOR IN THE ENTIRE ROOM WILL BE LEVELED AND FLATTENED ACCORDING TO THE SIEMENS SPECIFICATIONS GIVEN BELOW. IT IS IMPERATIVE THAT THE SYSTEM INSTALLATION AREA, AS INDICATE BY THE HATCH AREA BELOW, IS LEVELED AND FLATTENED.	
UPON COMPLETION OF THE INSTALLATION FLOOR AREA, VERIFY THE SURFACE FLATNESS, USING A STRAIGHT EDGE 4'-0" IN LENGTH OR LONGER.	
	
RIGHT PATIENT LOAD AREA 18'-9 3/16" (225.2") X 7'-9 5/16" (93.3")	LEFT PATIENT LOAD AREA 18'-9 3/16" (225.2") X 7'-9 5/16" (93.3")
LEVELING SPECIFICATIONS	
FLOOR LEVELING AREA	18'-9 3/16" (225.2") X 7'-9 5/16" (93.3")
SLOPE/FLATNESS	SLOPE: .25 DEGREES MAXIMUM FLOOR SURFACE SHOULD BE SMOOTH AND HAVE NO MORE THAN 3/16" DEVIATION IN ANY ROLLING 4'-0" (48") SEGMENT IN ENTIRE THE SCANNER ROOM AREA.
FLOOR SURFACE	FLOOR SHOULD HAVE ONE SINGLE POURED SURFACE. NO FILL MATERIAL SHOULD BE USED TO COMPENSATE FOR HOLES OR DEPRESSIONS IN THE FLOOR SURFACE.
FLOOR CHECKING PROCEDURE	
THIS PROCEDURE PROVIDES DETAILS ON HOW TO VERIFY THAT THE FLOOR IS BOTH FLAT AND LEVEL BEFORE SYSTEM INSTALLATION BEGINS. THIS PROCEDURE SHOULD BE COMPLETE BY THE SIEMENS PROJECT MANAGER AND CUSTOMER/CONTRACTOR. MEASUREMENTS SHOULD BE TAKEN LEFT TO RIGHT OR RIGHT TO LEFT, FRONT TO BACK OR BACK TO FRONT AND DIAGONALLY IN EITHER DIRECTION. REFER TO THE DIAGRAM ABOVE.	
SLOPE/FLATNESS – FLOOR SURFACE SHOULD BE SMOOTH AND HAVE NO MORE THEN 3/16" DEVIATION IN ANY 4'-0" (48") SEGMENT IN ENTIRE SCANNER ROOM AREA.	
	
IT IS THE CUSTOMER/CONTRACTOR'S RESPONSIBILITY THAT ANY MEASUREMENT OUT OF ACCEPTABLE LIMITS ARE AN INDICATION THAT THE FLOOR NEEDS TO BE RELEVELLED.	
WHERE THE UNACCEPTABLE DEVIATION EXIST, THE WHOLE ROOM (MINIMUM SYSTEM AREA) SHOULD BE RE-SURFACED.	

ANCHOR REQUIREMENTS		
THE MINIMUM ALLOWABLE CONCRETE THICKNESS OF THE SCANNER ROOM FLOOR IS 6" IN NON-SEISMIC REGIONS.		
ANCHOR MOUNTING		
LOCATION	ANCHOR CLAMP HEIGHT (INCHES)	ANCHOR CLEARANCE THROUGH HOLE DIAMETER (INCHES)
GANTRY CONCENTRIC FEET	3.29	.88
FRONT PHS	.59	.51
REAR PHS	.20	.71
<div><div><div>ANCHOR HEIGHT</div><div></div></div></div>		
ANCHOR CLAMP HEIGHT IS THE DISTANCE FROM THE FINISHED FLOOR TO THE TOP OF THE FIXTURE BEING CLAMPED.		
ANCHOR STATIC TENSION LOAD – 1)		
LOCATION	FORCE (LBF)	
GANTRY (CLINICAL OPERATION MODE)	N/A (ALWAYS IN COMPRESSION)	
SPECT GANTRY (CT GANTRY IN SERVICE MODE)	124	
FRONT PHS	606	
REAR PHS	978	
1) TENSION LOAD INCLUDE 4X SAFETY FACTORS AND REPRESENT THE MINIMUM TENSION LOADS REQUIRED BY THE RESPECTIVE, INDIVIDUAL ANCHOR FOR STATIC ENVIRONMENTS. SEISMIC LOADS ARE NOT CONSIDERED, IT IS THE CUSTOMER/CONTRACTOR RESPONSIBILITY TO HAVE A LOCAL STRUCTURAL ENGINEER REVIEW.		
THE FOLLOWING STANDARD ANCHORS ARE DELIVER WITH THE SYSTEM: GANTRY – HILTI KB-TZ 3/4" X 8" FRONT PHS – HILTI KB-TZ 3/8" X 5" REAR PHS – LIEBIG ILS M8-14/80		

FLOOR REQUIREMENTS	
THE ENGINEER OF RECORD OF THE BUILDING SHALL PROVIDE SUPPORT STRUCTURE DESIGNED TO SUPPORT ALL WEIGHTS AND FORCES.	
THE ENGINEER OF RECORD FOR THE BUILDING AND SIEMENS ENGINEERING SHALL JOINTLY REVIEW DEVIATIONS FROM THE FOLLOWING REQUIREMENTS.	
IT IS THE CUSTOMER'S RESPONSIBILITY TO CONTRACT A QUALIFIED SPECIALIST TO IMPLEMENT SITE MODIFICATIONS THAT MEET THESE SPECIFIC LIMITS, AND TO DESIGN STRUCTURAL SOLUTIONS IN CASE OF DEVIATIONS.	
1) THE MINIMUM ALLOWABLE CONCRETE THICKNESS FOR NONSEISMIC REGIONS OF THE SCANNER ROOM FLOOR IS 6". THE SYSTEM SHIPS WITH HARDWARE THAT NECESSITATES A 6" THICK CONCRETE FLOOR. NONSEISMIC REGIONS (i.e. WITH <0.7 SDS VALUES) MAY HAVE FLOORS THAT ARE LESS THAN 6" THICK. CUSTOMER'S IS RESPONSIBLE TO CONSULT THE ENGINEER OF RECORD FOR THE BUILDING FOR SPECIFIC INSTALLATION REQUIREMENTS.	
2) CONDITIONS OF FLOORING:	
INSTALLATION OF THE GANTRY AND PATIENT TABLE ON:	
MINIMUM 6" THICK CONCRETE FLOORING.	
CONCRETE FLOORING CLASS C20/25 TO C50/60.	
COMPOSITE FLOORING OR ACCESS FLOOR WITH SUITABLE ON SITE MOUNTING FRAME, SUB CONSTRUCTION, OR EQUIVALENT STRUCTURE. AS A RULE, THERE IS NO NEED FOR A MOUNTING FRAME WHEN USING CONCRETE OR COMPOSITE FLOORING.	
FLOOR SHOULD HAVE ONCE SINGLE POURED. NO FILL MATERIAL SHOULD BE USED TO COMPENSATE FOR HOLES OR DEPRESSIONS IN THE FLOOR SURFACE.	
ANTI-STATIC FLOORING IS RECOMMENDED FOR THE EXAMINATION. ESD (ELECTROSTATIC DISCHARGE) FLOORING IS ALSO SUITABLE.	
3) WEIGHT CAPACITY OF FLOORING SHOULD BE TESTED BY A STRUCTURAL ENGINEER.	
4) ANY FLOORING OTHER THAN LISTED ABOVE, PLEASE CONSULT STRUCTURAL/ARCHITECT ENGINEER.	
5) INSTALLATION ON A FLOATING FLOOR WITHOUT SUB-CONSTRUCTION IS PROHIBITED.	
6) THE BASE FRAME PLATE-FOOT ARE MOUNTED TO THE FLOOR USING (4) 3/4" X 8" LG. ANCHORS.	
7) FLOOR LEVELNESS REFER TO PREPARATION/PROCEDURE FOR FLOOR LEVELING AND FLATTENING DETAIL LOCATED ON THIS SHEET OR S-501 SHEET. THE SCAN ROOM FLOOR MUST BE LEVEL AND ITS SURFACE MUST BE SMOOTH. ANY DEVIATION IN LEVELS WILL HAVE A DETRIMENTAL EFFECT ON THE PHS-TO-GANTRY ALIGNMENT WHICH MAY ALSO EFFECT COLLIMATOR EXCHANGE.	
8) THE MINIMUM REQUIREMENTS FOR COMPRESSIVE STRENGTH FOR THE FLOOR COVERING BASED ON SYSTEM COLLIMATOR CART SHALL BE 375 PSI. THIS IS BASED ON WORST CASE LOADING.	
9) EXISTING MOUNTING FRAMES ATTACHED TO THE CONCRETE FLOOR WITH SCREWS, HAVE TO BE REMOVED AND THE FLOOR WILL NEED TO BE REWORKED WITH RESPECT TO BEING LEVEL, MATERIAL, IF REQUIRED.	

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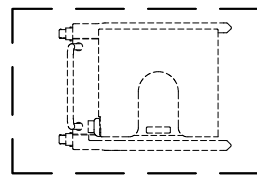
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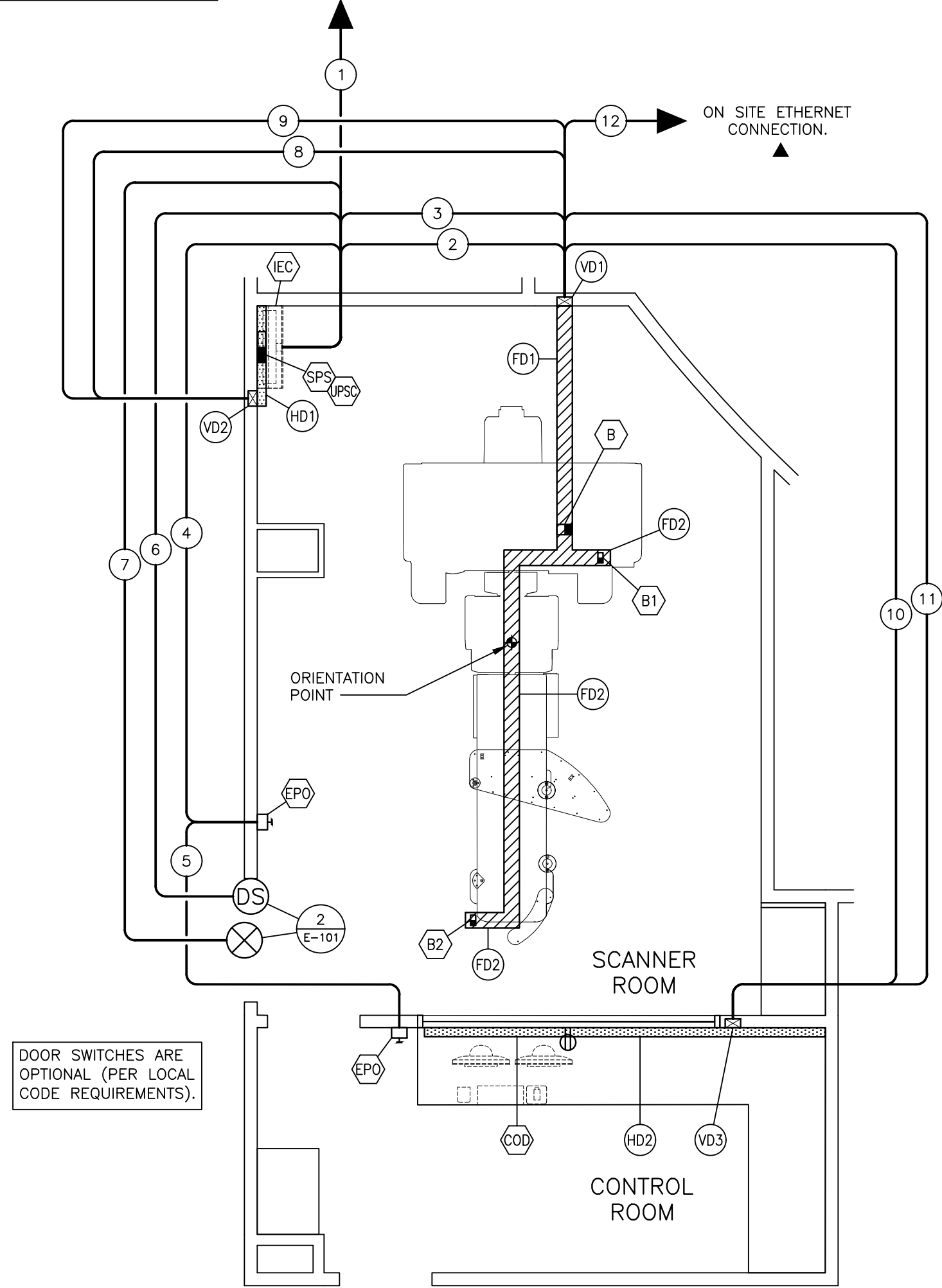
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		SIEMENS	
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		THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW.	PROJECT #: 2204910
		ALL RIGHTS ARE RESERVED.	SHEET: S-501
03/22/23 2204910RA DATED 10/12/22 APPROVED BY CUSTOMER FOR FINALS		SHEET 5 OF 7 DATE: 03/22/23	DRAWN BY: R. HILL
SYM DATE DESCRIPTION		SCALE: AS NOTED	REF. # 30276097
—ISSUE BLOCK—			

CABLES SET USED:
SYSTEM CABLING: 25M
REFER TO THE SIEMENS SUPPLIED
CABLE LEGEND FOR THE ACTUAL
LENGTH OF EACH CABLE CONNECTION.

DEDICATED POWER SOURCE,
SUPPLIED AND INSTALLED
BY CUSTOMER/CONTRACTOR.
SEE "POWER SCHEDULE".



ON SITE ETHERNET
CONNECTION.



DOOR SWITCHES ARE
OPTIONAL (PER LOCAL
CODE REQUIREMENTS).

ELECTRICAL RACEWAY PLAN

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
	WARNING LIGHT (X-RAY ON)
	DOOR SAFETY SWITCH
	(EPO) EMERGENCY POWER OFF BUTTON
	TRENCHDUCT
	CEILING DUCT
	UNDER FLOOR DUCT
	SURFACE DUCT
	VERTICAL DUCT
	ETHERNET CONNECTION TO CUSTOMER'S INFORMATION SYSTEMS NETWORK (VERIFY WITH SMS PROJECT MANAGER).
	110 VOLT, 20 AMP, HOSPITAL GRADE DUPLEX OUTLET UNLESS OTHERWISE STATED.
	110 VOLT, 20 AMP, HOSPITAL GRADE QUAD OUTLET
	SPECIAL PURPOSE RECEPTACLE

SIEMENS SUPPLIED CABLES				
FROM	VIA	TO	DESCRIPTION	REMARKS
IEC	ROUTE THROUGH CABINETS	SPS	POWER TO UPS: UNMARKED CABLE.	MAXIMUM LENGTH 5'-0"
IEC	HD1,VD2,8,VD1,FD1	B	NETWORK AND UPS CABLES: UNMARKED CABLE.	MAXIMUM LENGTH 82'-0"
IEC	HD1,VD2,9,VD1,FD1	B	DOOR SWITCHES AND X-RAY ON: UNMARKED CABLES.	MAXIMUM LENGTH 82'-0"
B	FD1,VD1,10,VD3,HD2	COD	POWER CABLE: 230 VAC.	MAXIMUM LENGTH 82'-0"
B	FD1,VD1,11,VD3,HD2	COD	UNMARKED CABLE, USB FOR KEYBOARD: 5 VAC AND CONTROL DEVICE CABLE: 24 VDC.	MAXIMUM LENGTH 82'-0"
B	FD1,VD1,12	ON-SITE EXTERNAL NETWORK	DATA CABLE: 24VDC.	MAXIMUM LENGTH 82'-0"
B1	FD2	B2	PHS CABLE, POWER CABLE: 300V.	MAXIMUM LENGTH 19'-0"

ELECTRICAL LEGEND

SYM	SIZE	DESCRIPTION	REMARKS
SUPPLIED AND INSTALLED BY CUSTOMER/CONTRACTOR			
(B)	4" x 6"	OPENING IN TOP OF FLUSH MOUNTED RACEWAY IN SHOWN LOCATION.	GANTRY CABLE ACCESS
(B1)	2" x 4"	OPENING IN TOP OF FLUSH MOUNTED RACEWAY IN SHOWN LOCATION.	PHS CABLE ACCESS UNDER THE GANTRY
(B2)	2" x 4"	OPENING IN TOP OF FLUSH MOUNTED RACEWAY IN SHOWN LOCATION.	PHS CABLE ACCESS UNDER THE GANTRY
(B3)	6" x 6"	OPENING IN RACEWAY IN SHOWN LOCATION.	SEE POWER SCHEDULE
(E)	---	EMERGENCY POWER OFF BUTTON WITH PROTECTIVE COVER, MOUNTED ON WALL AT 5'-0" ABOVE FINISH FLOOR THAT PREVENTS RESETTING OF CIRCUIT BREAKER WHEN IN THE OFF POSITION. THERE SHALL BE AN EPO IN EACH ROOM OF THE SUITE WHERE SIEMENS EQUIPMENT IS LOCATED, EXACT LOCATIONS TO BE DETERMINED BY CUSTOMER/CONTRACTOR. SUPPLIED BY CUSTOMER/CONTRACTOR.	SEE POWER SCHEDULE.
(E2)	AS REQUIRED	INTEGRATED ELECTRICAL CABINET, SUPPLIED BY SIEMENS AND INSTALLED BY CUSTOMER/CONTRACTOR.	SEE POWER SCHEDULE.
(E3)	---	OPENING ON TOP OF SURFACE MOUNTED DUCT IN SHOWN LOCATION.	UNINTERRUPTIBLE POWER SUPPLY
(E4)	----	SAME FIXPOINT AS SPS.	UPS CABINET FOR SPS
(R1)	6" x 3 1/2"	ELECTRICAL DUCT THAT IS 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 THREE SECTIONS WITH METAL DIVIDERS.	RACEWAY
(R2)	6" x 3 1/2"	ELECTRICAL DUCT THAT IS MOUNTED FLUSH WITH FINISHED FLOOR (TRENCH DUCT) AND PARALLEL WITH THE FLOOR SLAB IN SHOWN LOCATION. PROVIDED WITH WATERPROOF AND REMOVABLE COVERS FINISHED TO MATCH FLOORING. THE COVER WILL NEED TO SUPPORT APPROX. 1,372.7 LBS FOR THE COLLIMATOR CART AS IT IS DOCK INTO THE FRONT PHS.	RACEWAY
(R3)	6" x 3 1/2"	ELECTRICAL DUCT THAT IS SURFACE MOUNTED ON FINISHED WALL IN SHOWN LOCATION PROVIDED WITH FINISHED, REMOVABLE COVERS. TO EXTEND FROM FLOOR LINE TO THE BOTTOM OF THE UPS CABINET. DUCT TO BE DIVIDED INTO THREE SECTIONS WITH METAL DIVIDERS. LENGTH OF DUCT TO BE DETERMINED AT THE TIME OF INSTALL AFTER THE IEC CABINET IS INSTALLED.	RACEWAY
(R4)	6" x 3 1/2"	ELECTRICAL DUCT THAT RUNS HORIZONTALLY ON THE WALL AT THE FLOOR LINE AND SURFACE MOUNTED ON FINISHED WALL AS SHOWN. DUCT TO BE DIVIDED INTO THREE SECTIONS WITH METAL DIVIDERS.	RACEWAY
(R5)(R6)(R7)	6" x 3 1/2"	ELECTRICAL DUCT THAT IS 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 THREE SECTIONS WITH METAL DIVIDERS.	RACEWAY
(1)	AS REQUIRED	CONDUIT FROM POWER SOURCE TO "IEC" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
(2)	AS REQUIRED	CONDUIT FROM "IEC" TO "VD1" (B) SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
(3)	AS REQUIRED	CONDUIT FROM "IEC" TO "VD1" (B) SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
(4)	AS REQUIRED	CONDUIT FROM "IEC" TO "EPO" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
(5)	AS REQUIRED	CONDUIT FROM "EPO" TO "EPO" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
(6)	1/2"	CONDUIT FROM "IEC" TO "DOOR SAFETY SWITCH" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE SHEET E-101
(7)	1/2"	CONDUIT FROM "IEC" TO "WARNING LIGHT" (X-RAY ON) SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE SHEET E-101
(8)	3/4"	CONDUIT FROM "VD2" (IEC) TO "VD1" (B). (UNMARKED)	DATA CABLES MAXIMUM CONDUIT LENGTH 45'-0"
(9)	3/4"	CONDUIT FROM "VD2" (IEC) TO "VD1" (B). (UNMARKED)	DATA CABLES MAXIMUM CONDUIT LENGTH 45'-0"
(10)	1 1/2"	CONDUIT FROM "VD1" (B) TO "VD3" (COD). (230VAC)	MAXIMUM CONDUIT LENGTH 44'-0"
(11)	2"	CONDUIT FROM "VD1" (B) TO "VD3" (COD). (UNMARKED, 5VAC AND 24VDC)	MAXIMUM CONDUIT LENGTH 44'-0"
(12)	1/2"	CONDUIT FROM "VD1" (B) TO "ON-SITE EXTERNAL NETWORK". (24VDC)	MAXIMUM CONDUIT LENGTH 64'-0"

CONTRACTOR SUPPLIED CABLES

FROM	VIA	TO	DESCRIPTION	REMARKS
POWER SOURCE	1	IEC	3-PHASE CONDUCTORS 1 NEUTRAL AND GROUND. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
IEC	2,VD1,FD1	B	POWER CABLE FOR CT PORTION OF SYMBIA. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
IEC	3,VD1,FD1	B	POWER CABLE FOR SPECT PORTION OF SYMBIA. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
IEC	4	EPO	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
EPO	5	EPO	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
IEC	6	DOOR SAFETY SWITCH	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE SHEET E-101
IEC	7	WARNING LIGHT	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE SHEET E-101

PATIENT VICINITY

IN AREAS IN WHICH PATIENTS ARE NORMALLY CARED FOR, THE PATIENT VICINITY IS THE SPACE WITH SURFACES LIKELY TO BE CONTACTED BY THE PATIENT OR ATTENDANT WHO CAN TOUCH THE PATIENT. THIS ENCLOSES A SPACE WITHIN THE ROOM 6'-0" BEYOND THE PERIMETER OF THE PATIENT TABLE (PHS) (EXAMINATION TABLE, TREATMENT BOOTH AND THE LIKE) IN IT'S INTENDED LOCATION, AND EXTENDING VERTICALLY 7'-0 1/2" ABOVE THE FLOOR.

PATIENT VICINITY DISTANCES TO THE INTEGRATED ELECTRONICS CABINET, UPS AND OTHER NON-MEDICAL COMPONENTS MUST BE MAINTAINED.

WHEN THE 6'-0" PATIENT VICINITY FALLS BELOW THE SAFETY DISTANCES, SAFETY MEASURES HAVE TO BE PUT IN PLACE ACCORDING TO LOCAL AND NATIONAL REQUIREMENTS.

ELECTRICAL NOTES

1) COMPLIANCE: ELECTRICAL WORK SHALL BE IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE (NEPA-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 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 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.

CABLE PROTECTION

CABLES ARE NOT PLENUM RATED. ALL CABLES MUST BE ROUTED IN CABLE DUCTS OR CABLE CONDUITS.

ATTENTION:

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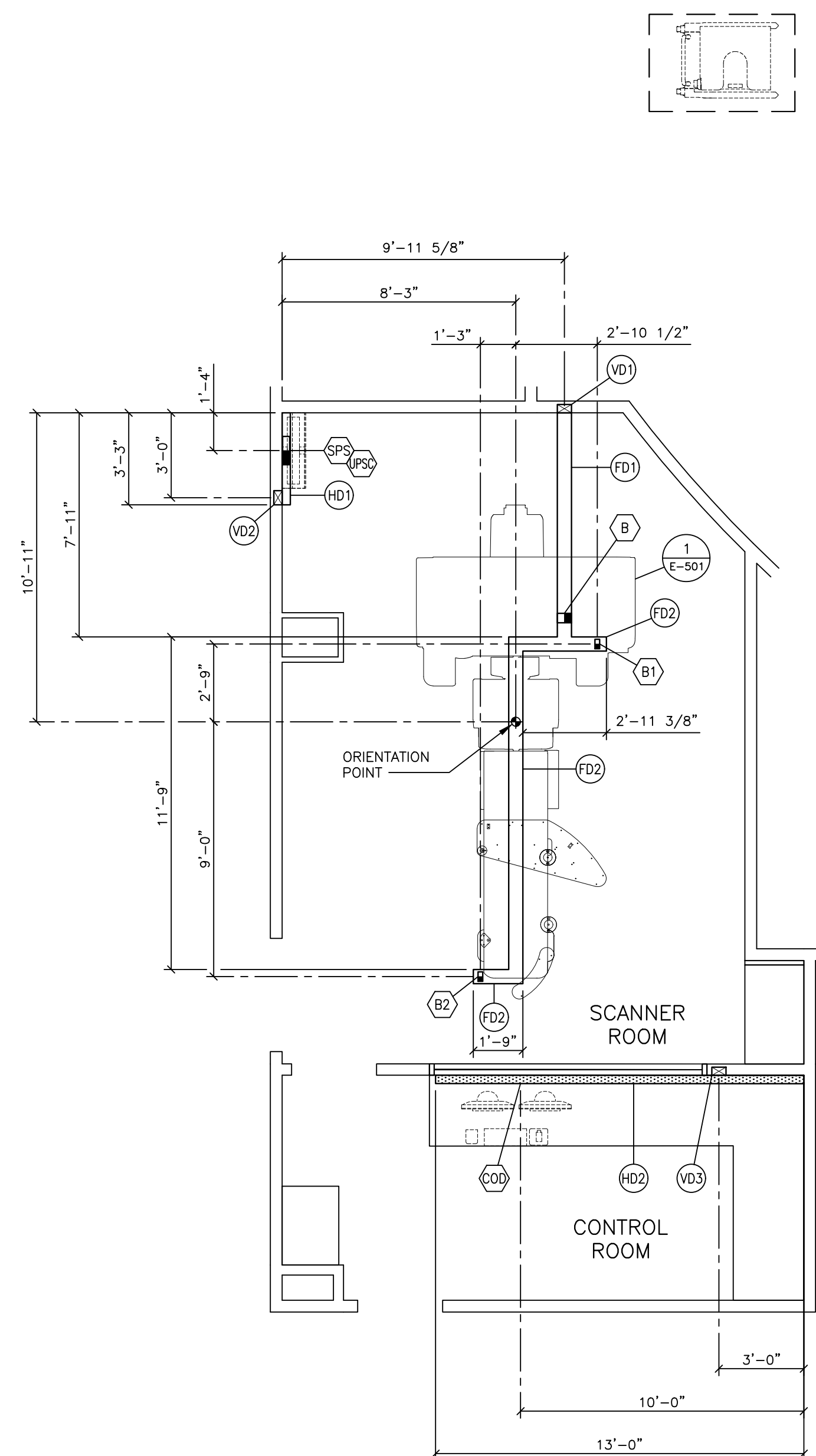
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— IT IS RECOMMENDED THAT THE SIEMENS DRAWINGS BE INCORPORATED WITH THE CONSTRUCTION DOCUMENTS FOR REFERENCE.

— 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.

PROJECT MANAGER: MARK BUXTON TEL: (417) 576-7820 FAX: EXT: EMAIL: MARK.BUXTON@SIEMENS-HEALTHINEERS.COM	
ST LUKES EAST HOSPITAL 100 NORTHEAST SAINT LUKES BOULEVARD, LEE'S SUMMIT, MO 64086 SCANNER ROOM - SYMBIA PRO.SPECTA Q3	
THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW.	PROJECT #: 2204910 SHEET: E-101
SYM 03/22/23 2204910RA DATED 10/12/22 APPROVED BY CUSTOMER FOR FINALS	SHEET 6 OF 6 DATE: 03/22/23 DRAWN BY: R. HILL
ALL RIGHTS ARE RESERVED. SCALE: AS NOTED REF. # 30276097	



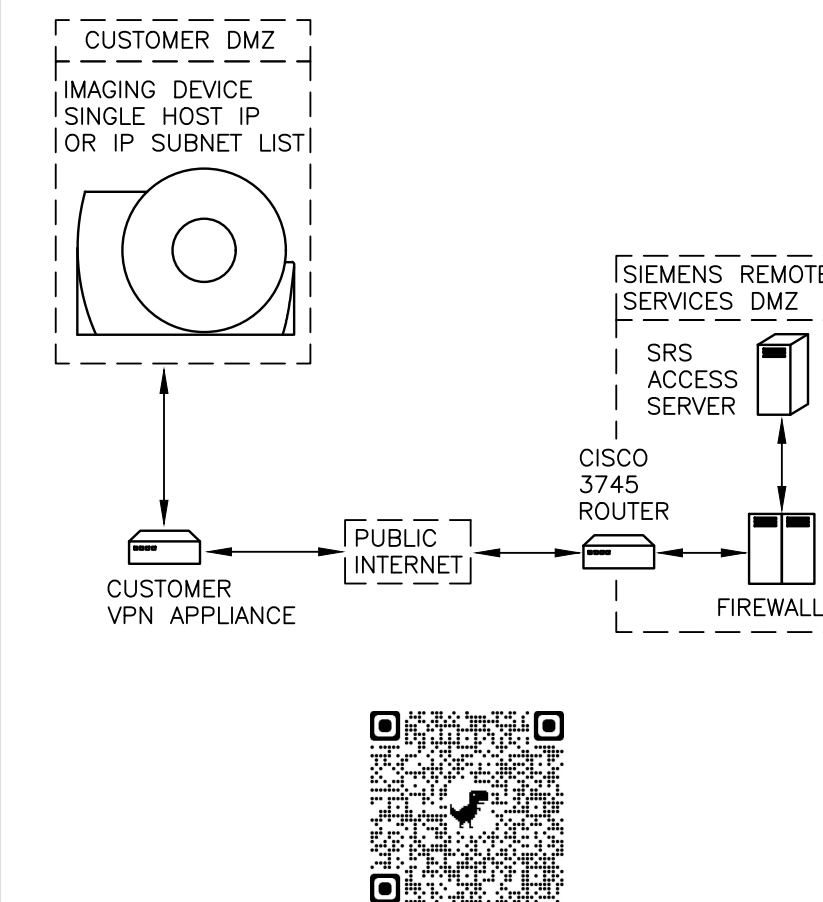
SCALE: 1/4" = 1'-0"

SIEMENS SMART 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 SMART SERVICE SERVICES TO DETERMINE BEST IMPLEMENTATION FOR YOUR SITE. CONTACT:

IMCPTSCSRS.DL@SIEMENS-HEALTHINEERS.COM.



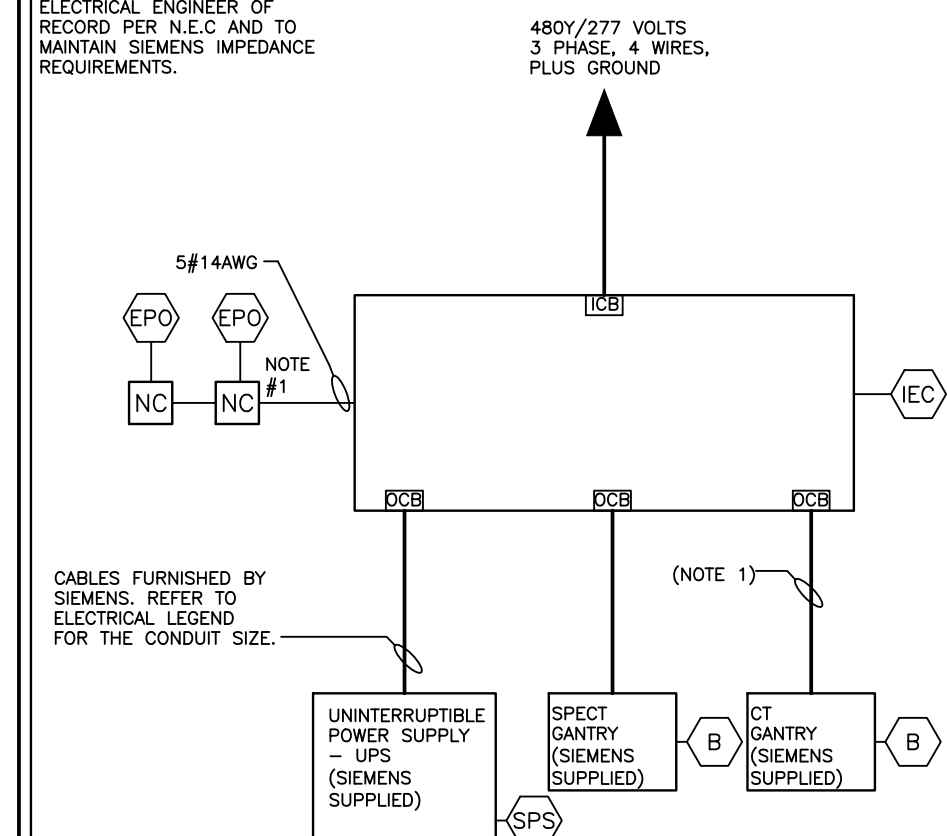
GROUNDING NOTES

EQUIPMENT GROUND 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.
- 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.

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.



CABLES FURNISHED BY
SIEMENS. REFER TO
ELECTRICAL LEGEND
FOR THE CONDUIT SIZE

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graph LR
    A[UNINTERRUPTIBLE POWER SUPPLY - UPS (SIEMENS SUPPLIED)] --> B((B))
    B --> C[SPECT GANTRY (SIEMENS SUPPLIED)]
    C --> D((B))
    D --> E[CT GANTRY (SIEMENS SUPPLIED)]
    E --> F((B))
    G((SPS)) --> C
  
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ITEM	QTY	DESCRIPTION				
IEC	1	INTEGRATED ELECTRICAL CABINET PROVIDED BY SIEMENS, INSTALLED SURFACE MOUNTED BY ELECTRICAL CONTRACTOR. SEE INSTALLATION MANUAL FOR COMPONENT DETAIL. IEC INPUT ELECTRONIC CIRCUIT BREAKER (ICB) AMPS 150 SET TO THE POWER REQUIREMENTS DETAIL. IEC OUTPUT CIRCUIT BREAKER FOR CT GANTRY (B) AMPS: SEE POWER REQUIREMENTS DETAIL.				
		VOLTS	PHASES	NEUTRAL	GROUND	TOTAL WIRES
		480Y	3	0	1	4 (NOTE 1)
		IEC OUTPUT CIRCUIT BREAKER FOR SPECT GANTRY (B) AMPS: 30				
		VOLTS	PHASES	NEUTRAL	GROUND	TOTAL WIRES
		240	1 (L1-L2)	0	1	3 (NOTE 1)
		IEC OUTPUT CIRCUIT BREAKER FOR UPS (SPS) AMPS: 30				
		VOLTS	PHASES	NEUTRAL	GROUND	TOTAL WIRES
		240	1 (L1-L2)	0	1	3 (NOTE 1)

(NOTE 1) ALL WIRES TO BE THE SAME SIZE.
UNLESS OTHERWISE NOTED, ALL BREAKERS WILL BE 80% RATED
Q3/X3 CT GANTRY MAXIMUM WIRE SIZE #4 AWG.
X7 CT GANTRY MAXIMUM WIRE SIZE #2 AWG

EPO	VARIES	ALL EPO'S SHOWN ARE SUPPLIED BY SIEMENS WITH THE INTERGRATED ELECTRICAL CABINET. EPO'S INSTALLED AND WIRED BY CUSTOMER/CONTRACTOR. THE CUSTOMER/CONTRACTOR MUST SUPPLY ALL ADDITIONAL EPO'S THAT ARE REQUIRED AND BE THE SAME AS THOSE SUPPLIED BY SIEMENS.
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NOTE #1 - EPO CONTACTS TO BE NORMALLY CLOSED, WIRED IN SERIES, CONNECTED TO THE IEC CABINET.

THE EPOs MUST BE INSTALLED BY A QUALIFIED ELECTRICAL CONTRACTOR ACCORDING TO NATIONAL ELECTRICAL CODE, STATE AND LOCAL REGULATIONS. 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 ON THIS SCHEDULE SHALL BE SUPPLIED AND INSTALLED BY CUSTOMER/CONTRACTOR.

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.

FINISHED ROOM HEIGHT

SYMBIA Pro.specta	RECOMMENDED 8'-0" MINIMUM 7'-10" (7'-6" MINIMUM IF DROP CEILING IS AVAILABLE AND MAY PROVIDE 5" ADDITIONAL CLEARANCE TO INSTALL THE GANTRY BOOM).
SYMBIA Pro.specta CEILING MOUNTED COMPONENT	MINIMUM 8'-2" MAXIMUM 12'-0"

POWER REQUIREMENTS

SYSTEM	SUPPLY VOLTAGE (VOLTS)	POWER CONSUMPTION (kW)	SUPPLY IMPEDANCE (mΩ)	BREAKERS (AMPS) IEC/MP
SYMBIA Pro.specta Q3 AND X3	3ø 480Y ±10%	SEE BELOW	400	80 ICB/OC 80 A (MP)
SYMBIA Pro.specta Q3 AND X3 POWER CONSUMPTION: OPERATING FOR 6 SEC. 50 kVA OPERATING FOR 10 SEC. 44 kVA OPERATING FOR 30 SEC. 37 kVA OPERATING FOR 50 SEC. 31 kVA OPERATING FOR 100 SEC. 22 kVA SYSTEM ON STANDBY >100 SEC. 3 kVA SYSTEM OFF >100 SEC. 15 kVA				

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

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

THE SCANNER AND CONTROL ROOM SHOULD BE EQUIPPED WITH AT LEAST ONE EACH EMERGENCY POWER OFF 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 CONTRACTORS RESPONSIBILITY TO RECALCULATE THE MAXIMUM CONDUIT LENGTHS.

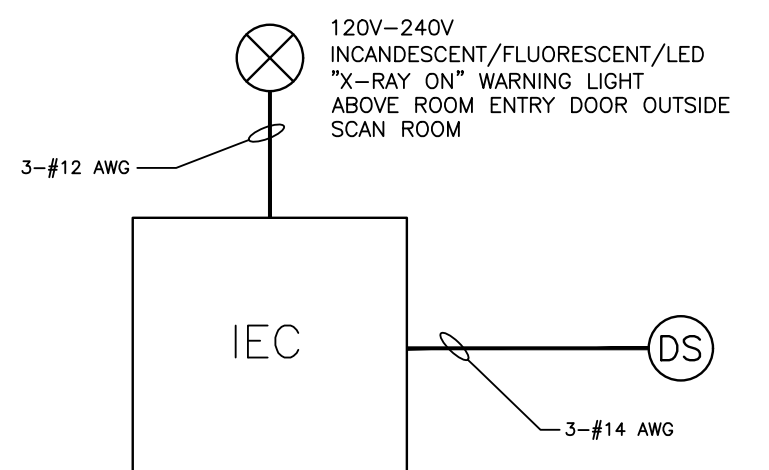
ASSUMED VALUES USED IN CALCULATING STATED MAXIMUM
CONDUIT LENGTHS:
VERTICAL DUCTS - 10'-0"
FLOOR PENETRATIONS - 3'-0"

CUSTOMER SUPPLIED

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

RADIATION WARNING LIGHTS REQUIRED ON ALL DOORS
ACCESSING THE EXAMINATION ROOM IN ACCORDANCE WITH
FDA CODES

EMERGENCY POWER OFF BUTTON SHOULD BE INSTALLED IN BOTH THE SCANNER AND CONTROL ROOM.



2	AUXILIARY WIRING WITH IEC
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SCALE

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