

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.

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.

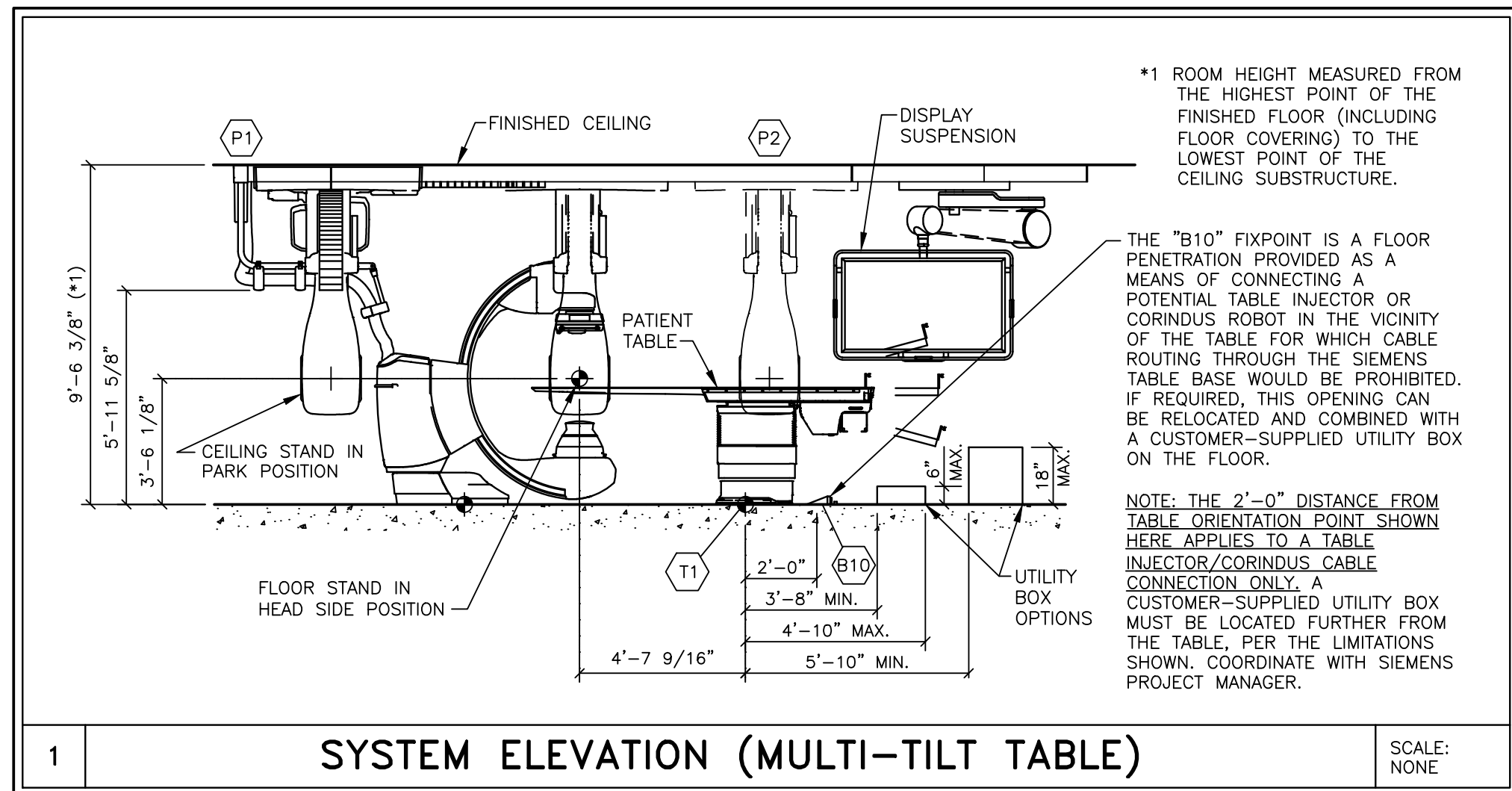
MEDRAD INJECTOR INSTALLED BY MEDRAD/BAYER WITH STARTUP PERFORMED BY MEDRAD/BAYER

NOTE: THE UPS IS SUPPLIED AND DELIVERED TO CUSTOMER'S LOADING DOCK BY SIEMENS. CUSTOMER'S ELECTRICIAN IS RESPONSIBLE FOR MOVING FROM LOADING DOCK TO FINAL LOCATION AND COMPLETING ALL CONNECTIONS. THE UPS MUST NOT BE LOCATED IN A PATIENT ENVIRONMENT. SIEMENS PROJECT MANAGER WILL SCHEDULE UPS STARTUP PRIOR TO DELIVERY OF SIEMENS IMAGING EQUIPMENT.

NOTE: THE "T1" FLOOR HOLE LOCATION FOR TABLE CABLES DIFFERS SLIGHTLY FROM THIS TABLE ORIENTATION POINT DIMENSION. SEE SHEET E-102 FOR LOCATION.

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.

MAGNETIC FIELD PRECAUTIONS

THE PRESENCE OF MAGNETIC FIELDS IN THE VICINITY OF EQUIPMENT MAY HAVE AN ADVERSE EFFECT. IT IS THE CUSTOMER'S RESPONSIBILITY TO VERIFY THAT THE FOLLOWING VALUES ARE NOT EXCEEDED.

MAXIMUM ALLOWABLE MAGNETIC FIELD	DEVICES
1.0mT (10 GAUSS)	COMPUTERS, MAGNETIC DISK DRIVES, OSCILLOSCOPES, PROCESSORS
0.5mT (5 GAUSS)	X-RAY TUBES, B/W MONITORS, MAGNETIC DATA CARRIERS, DATA STORAGE DRIVES
0.2mT (2 GAUSS)	SIEMENS CT SCANNERS
0.15mT (1.5 GAUSS)	COLOR MONITORS, SIEMENS LINEAR ACCELERATORS
0.05mT (0.5 GAUSS)	X-RAY IMAGE INTENSIFIERS, GAMMA CAMERAS, PET/CYCLOTRON, OTHER LINEAR ACCELERATORS
MAGNETIC FIELDS SHOULD BE MEASURED PRIOR TO DELIVERY	

CEILING HEIGHT REQUIREMENT

9 FT. - 6 3/8 IN.

ENVIRONMENTAL CONDITIONS FOR TRANSPORT/STORAGE

TEMPERATURE RANGE: -4° F TO 158° F
RELATIVE HUMIDITY: 10% TO 95% WITHOUT CONDENSATION
BAROMETRIC PRESSURE: 70 kPa TO 106 kPa

EQUIPMENT LEGEND

NO	DESCRIPTION	SMS SYM	WEIGHT (LBS)	BTU/HR TO AIR	DIMENSIONS (INCHES)			REMARKS
					W	D	H	
1	CPC (CENTRAL POWER CONTROL)	⊖	3	N/A	9 5/8	4	2 1/2	ON CONTROL COUNTER
2	CONTROL INTERFACE BOARD	⊖	18	342	19 1/4	3 1/4	13 1/2	ON WALL UNDER COUNTER
3	KEYBOARD	⊖	2.2	342	17 1/2	6 1/8	2 1/8	MTD. UNDER COUNTER OR ON CONSOLE
4	DUAL 24" CONTROL ROOM DISPLAYS	⊖	19	232	22 5/8	9 5/8	21 3/4	ON COUNTER OR CONSOLE
5	CONTROL MODULE	⊖	13	---	23	7 1/2	4	ON COUNTER OR CONSOLE
6	INJECTOR WALL CONNECTION - CONTROL ROOM	⊖	18	342	20 1/4	4 3/4	13 3/8	ON WALL UNDER COUNTER
7	INTERCOM POWER UNIT	⊖	---	---	6 3/4	5	1 3/8	ON COUNTER
8	INTERCOM MICROPHONE/LOUDSPEAKER (CONTROL ROOM)	⊖	---	---	4 1/2	9	2	ON COUNTER
9	INTERCOM LOUDSPEAKER (PROCEDURE ROOM)	⊖	---	---	3 1/4	2	6	WALL MOUNTED
10	TABLE CONTROL MODULES	⊖	16	---	20	8 3/4	3 1/2	ON TABLE OR TROLLEY
11	DCS LARGE DISPLAY RAIL MOUNT W/ 1.12 METER EXTENSION RAILS	⊖	787	1,535	44	60 3/4	50 3/4	CEILING SUSPENDED
12	ARTIS ICONO BIPLANE FLOOR STAND W/ MOUNTING PLATE	⊖	1,477	682	---	---	---	C-ARM FLOOR MOUNTED
13	ARTIS ICONO BIPLANE CEILING STAND W/ LONGITUDINAL RAILS	⊖	2,443	682	---	---	---	C-ARM CEILING MOUNTED
14	PATIENT TABLE (MULTI-TILT)	⊖	1,200	682	---	---	---	TABLE FLOOR MOUNTED
15	UPPER BODY RADIATION SHIELD 4 M TRACK	⊖	196	---	---	---	---	TRACK MOUNTED
16	MAVIC LAMP	⊖	48	---	---	---	---	---
17	GENERATOR 1 (ACX)	⊖	551	4,095	23 5/8	23 1/4	63 1/2	FLOOR MOUNTED
18	GENERATOR 2 (ACX)	⊖	551	4,095	23 5/8	23 1/4	63 1/2	FLOOR MOUNTED
19	CABLE CABINET	⊖	265	---	31 1/2	17 1/8	87	FLOOR MOUNTED
20	SYSTEM CONTROL CABINET	⊖	970	13,649	39 1/2	25 1/2	74 3/4	FLOOR MOUNTED
21	ATIS IMAGE SYSTEM	⊖	772	6,483	39 1/2	25 1/2	74 3/4	FLOOR MOUNTED
22	TUBE COOLING UNIT (PLANE A)	⊖	80	15,355	16 1/2	28 1/4	19 1/4	FLOOR OR SHELF MOUNTED
23	TUBE COOLING UNIT (PLANE B)	⊖	80	15,355	16 1/2	28 1/4	19 1/4	FLOOR OR SHELF MOUNTED
24	MEDRAD ARTERION INJECTOR TABLE MOUNTED	⊖	24	---	21	10	9	SEE MFG REQUIREMENTS
25	MEDRAD ARTERION INJECTOR DISPLAY CONTROL UNIT	⊖	7	---	12 1/2	3	11	SEE MFG REQUIREMENTS
26	MEDRAD ARTERION INJECTOR POWER UNIT	⊖	11	---	9 3/4	15 1/4	4 3/4	SEE MFG REQUIREMENTS
27	EATON 9355 15KVA UPS AND BATTERY	⊖	755	8,134	12 3/4	33 1/2	47 3/4	SEE MFG REQUIREMENTS
28	EATON 9355 OUTPUT TRANSFORMER CABINET	⊖	490	---	20	34 1/8	66	SEE MFG REQUIREMENTS
29	EATON 9355 REMOTE MONITORING DEVICE	⊖	0.5	---	6	1	3	SEE MFG REQUIREMENTS

	PROJECT MILESTONES TO BE COMPLETED BEFORE EQUIPMENT DELIVERY	REFERENCE SHEET
<input type="checkbox"/>	Storage area available for storing items during installation	A-101
<input type="checkbox"/>	Lead shielding (walls, doors, windows) complete	A-101
<input type="checkbox"/>	Climate control functioning 24 hours a day, 7 days a week	A-101
<input type="checkbox"/>	Delivery path verified for largest piece, including rails	A-101
<input type="checkbox"/>	Casework complete in control room	A-101
<input type="checkbox"/>	All walls primed and painted. Flooring installed	A-101
<input type="checkbox"/>	Room lighting complete and functional	A-101
<input type="checkbox"/>	Network drops active and IP addresses obtained for Siemens Remote Services (SRS)	A-102
<input type="checkbox"/>	Nothing hanging below ceiling in area shaded on drawing	A-102
<input type="checkbox"/>	Floor thickness and anchoring spec's verified. If req'd, alt solutions per engineer of record in place	S-101
<input type="checkbox"/>	All conduits, troughs, in-floor pull boxes and/or core drills avoid conflict with floor plate anchors	S-101
<input type="checkbox"/>	Unistrut installed to correct height, location, and levelness (check minimum ceiling height)	S-102
<input type="checkbox"/>	Cable runs checked to ensure maximum lengths not exceeded	E-101
<input type="checkbox"/>	X-Ray warning light and wiring installed	E-101
<input type="checkbox"/>	Contractor supplied electrical wiring / pigtails installed	E-102
<input type="checkbox"/>	Cable inlets located per plans	E-102
<input type="checkbox"/>	EPO's installed and functional	E-102
<input type="checkbox"/>	UPS started and functional	E-102
<input type="checkbox"/>	Ancillary equipment (OEM items, booms, etc) installed	E-102
<input type="checkbox"/>	Breakers installed and facility power available	E-501
<input type="checkbox"/>	All rooms containing Siemens equipment are clean and dust-free	A-101

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 ENCRUSCH 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 AMANATIONS 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.

TRANSPORTING REQUIREMENTS

LARGEST COMPONENT WITH PACKAGING:	WxDxH (INCHES)	WEIGHT (LBS)
FLOOR STAND	102 x 38 x 86	2,458
CEILING STAND	107 x 50 x 83	3,307
PATIENT TABLE	63 x 33 x 56	1,356
LARGEST COMPONENT WITH TRANSPORT FRAME:	W x D x H	WEIGHT (LBS)
FLOOR STAND (DEPENDING ON TRANSPORT CARRIAGE WHEEL POSITION)	96 x 33 x 74 96 x 51 x 74	1,852
CEILING STAND (DEPENDING ON TRANSPORT CARRIAGE WHEEL POSITION)	105 x 61 x 72 117 x 43 x 72	2,756
PATIENT TABLE	65 x 42 x 39	1,140
SYSTEM CABINET	58 x 33 x 76	992
C-ARM CEILING RAIL (EACH)	207 X 5 X 6	143
NOTE: MIN. 33" WIDE EQUIPMENT ROOM DOOR IS REQUIRED		

RESOURCE LIST (SMS USE ONLY)

DESIGNATION	PG NUMBER	DATE
ARTIS ICONO BIPLANE	ATHE-PGB.891.01.04.02	11.21

ARTIS ICONO BIPLANE
REV. 26

PROJECT MANAGER: CHARLES VITELLO
TEL: (732) 597-4829
FAX: (732) 435-0488
EMAIL: CHARLES.VITELLO@SIEMENS-HEALTHINEERS.COM

SIEMENS

RICHMOND MEDICAL CENTER

355 BARD AVE, STATEN ISLAND, NY 10310
BI PLANE LAB - ARTIS ICONO BIPLANE PRO

PROJECT #: 2310264

SHEET:

SHEET 1 OF 8

DRAWN BY: P. WOTORTSI

A-101

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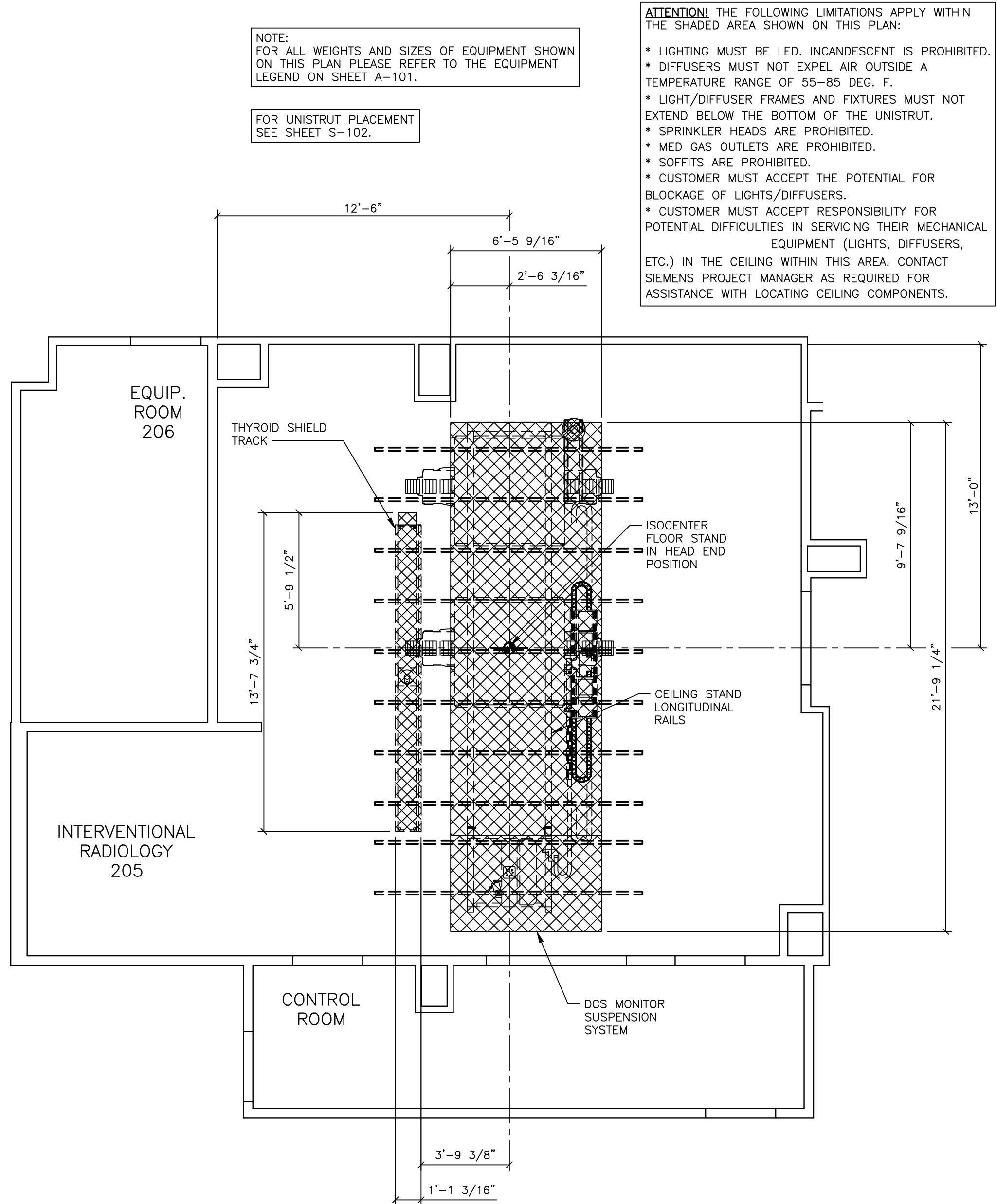
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ATTENTION:

— 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.

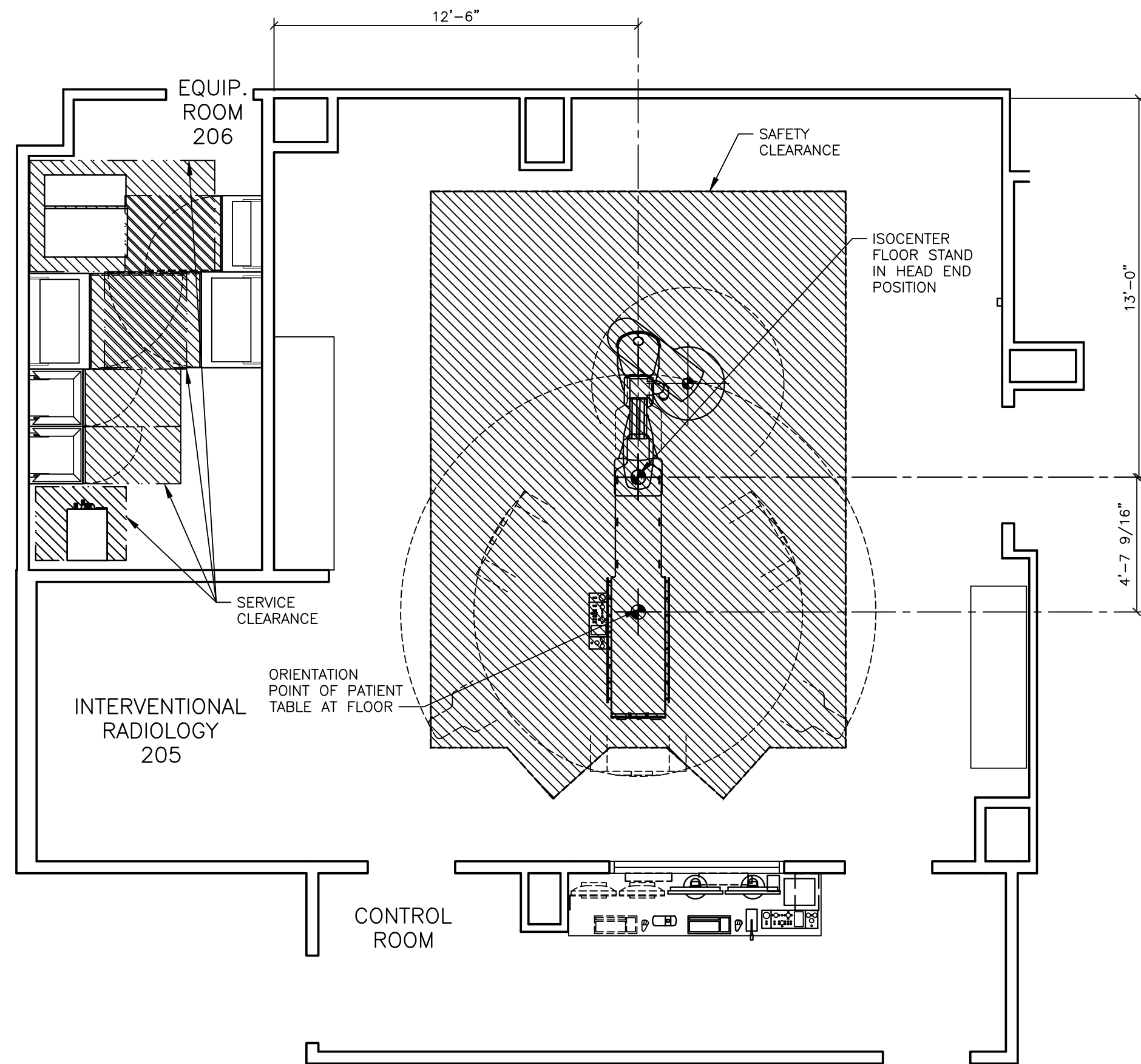
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— ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES.
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REFLECTED CEILING PLAN

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



SAFETY/SERVICE CLEARANCE PLAN

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

CEILING NOTES

- 1) ALL CEILING MOUNTED LIGHT FIXTURES, MECHANICAL REGISTERS AND SPRINKLER HEADS SHALL BE FLUSH WITH FINISHED CEILING, SHALL BE OUTSIDE OF ALL HATCHED AREAS AND SHALL BE SPECIFIED BY THE ARCHITECT OF RECORD AND SUBSEQUENT CONSULTING ENGINEERS.
- 2) THE ACTUAL CEILING DESIGN AND COORDINATION OF LIGHTING AND MECHANICAL SYSTEMS SHALL BE THE RESPONSIBILITY OF THE ARCHITECT OF RECORD AND HIS SUBSEQUENT CONSULTING ENGINEERS.
- 3) THE CUSTOMER/CONTRACTOR SHALL BE RESPONSIBLE FOR FABRICATING, SUPPLYING AND INSTALLING ALL LIGHT, MECHANICAL AND STRUCTURAL SUPPORTING SYSTEMS. SIEMENS MEDICAL SOLUTIONS INC. IS ONLY RESPONSIBLE FOR THE SUPPLYING, INSTALLING AND CALIBRATION OF SMS EQUIPMENT AS SPECIFIED ON THE EQUIPMENT SCHEDULE AS SHOWN ON SHEET A-101.
- 4) ALL ELECTRICAL AND STRUCTURAL SYSTEMS SHOWN ON THE REFLECTED CEILING PLAN HAVE BEEN COORDINATED WITH THE EQUIPMENT LOCATIONS AS SHOWN ON THE 1/4" SCALE ARCHITECTURAL EQUIPMENT PLAN (SHEET A-101). ANY CHANGES TO THE SMS EQUIPMENT CONFIGURATION AS SHOWN, DUE TO PLACEMENT OF LIGHTING, STRUCTURAL, ELECTRICAL AND MECHANICAL SYSTEMS, MUST BE APPROVED IN WRITING BY THE SMS PROJECT MANAGER PRIOR TO THE COMPLETION OF CONSTRUCTION DOCUMENTS.

CEILING
HEIGHT
REQUIREMENT

9 FT. - 6 3/8 IN.

ATTENTION:

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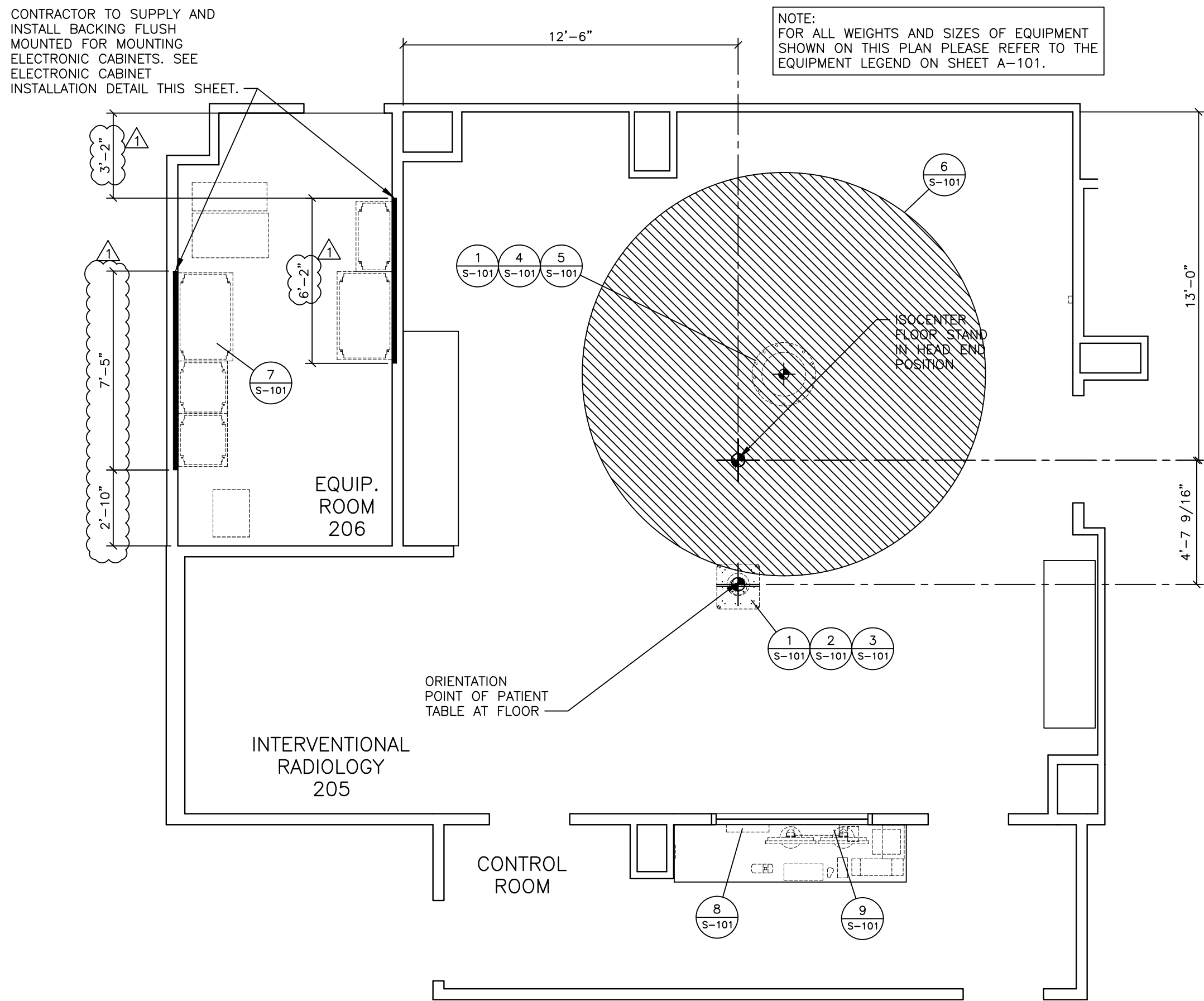
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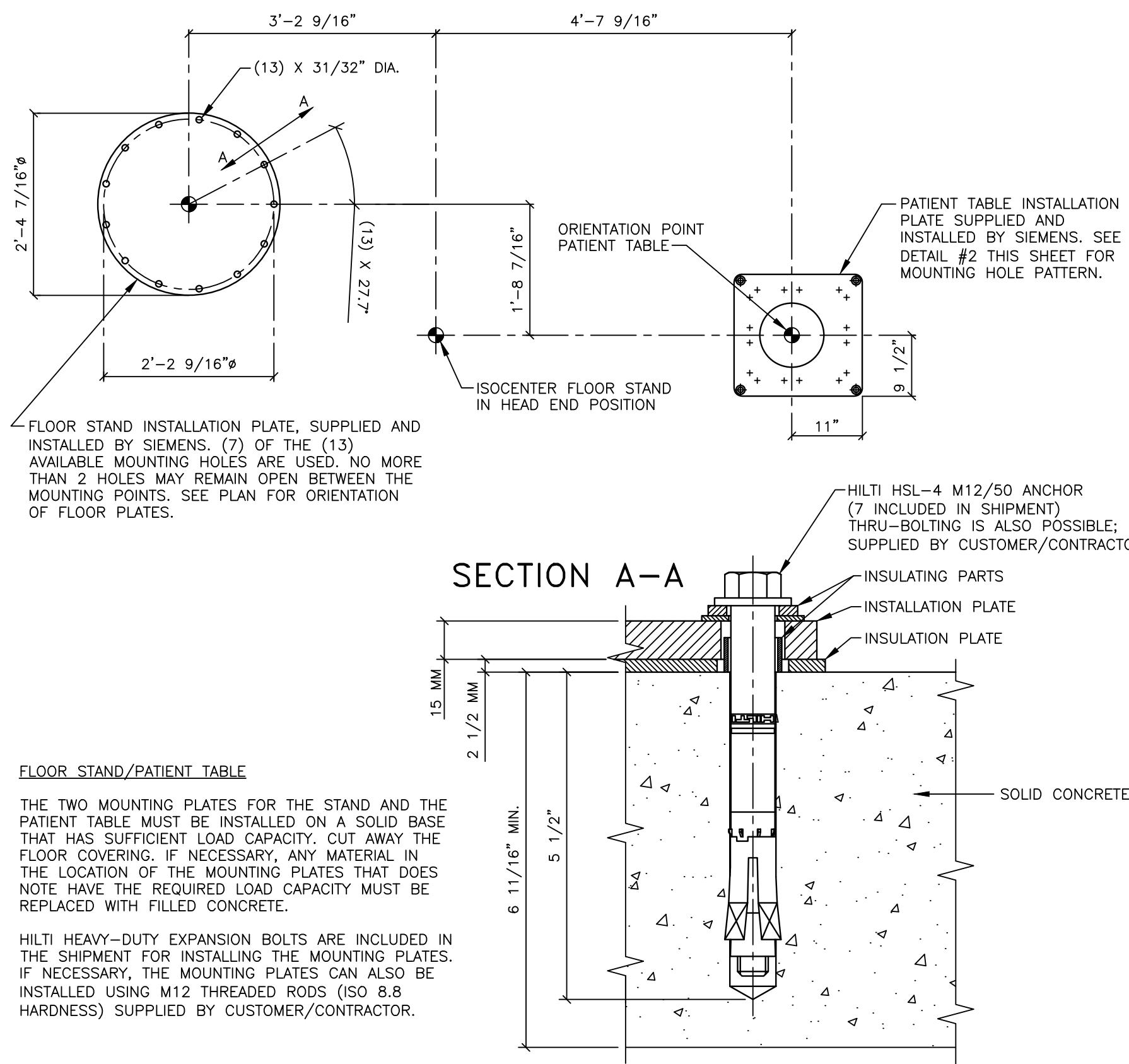
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			PROJECT MANAGER: CHARLES VITELLO TEL: (732) 597-4829 VMAIL: (800) 753-6336 EXT: 84928 FAX: (732) 435-0488 EMAIL: CHARLES.VITELLO@SIEMENS-HEALTHINEERS.COM		
			SIEMENS		
			RICHMOND MEDICAL CENTER		
			355 BARD AVE, STATEN ISLAND, NY 10310 BI PLANE LAB — ARTIS ICONO BIPLANE PRO		
			PROJECT #:		SHEET:
			2310264		A-102
			SHEET 2 OF 8		DRAWN BY: P. WOTORTSI
			DATE: 03/24/23		
			ALL RIGHTS ARE RESERVED.		
			SCALE: AS NOTED	REF. #:	CPQ-486795/3
			—ISSUE BLOCK—		
			THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW.		



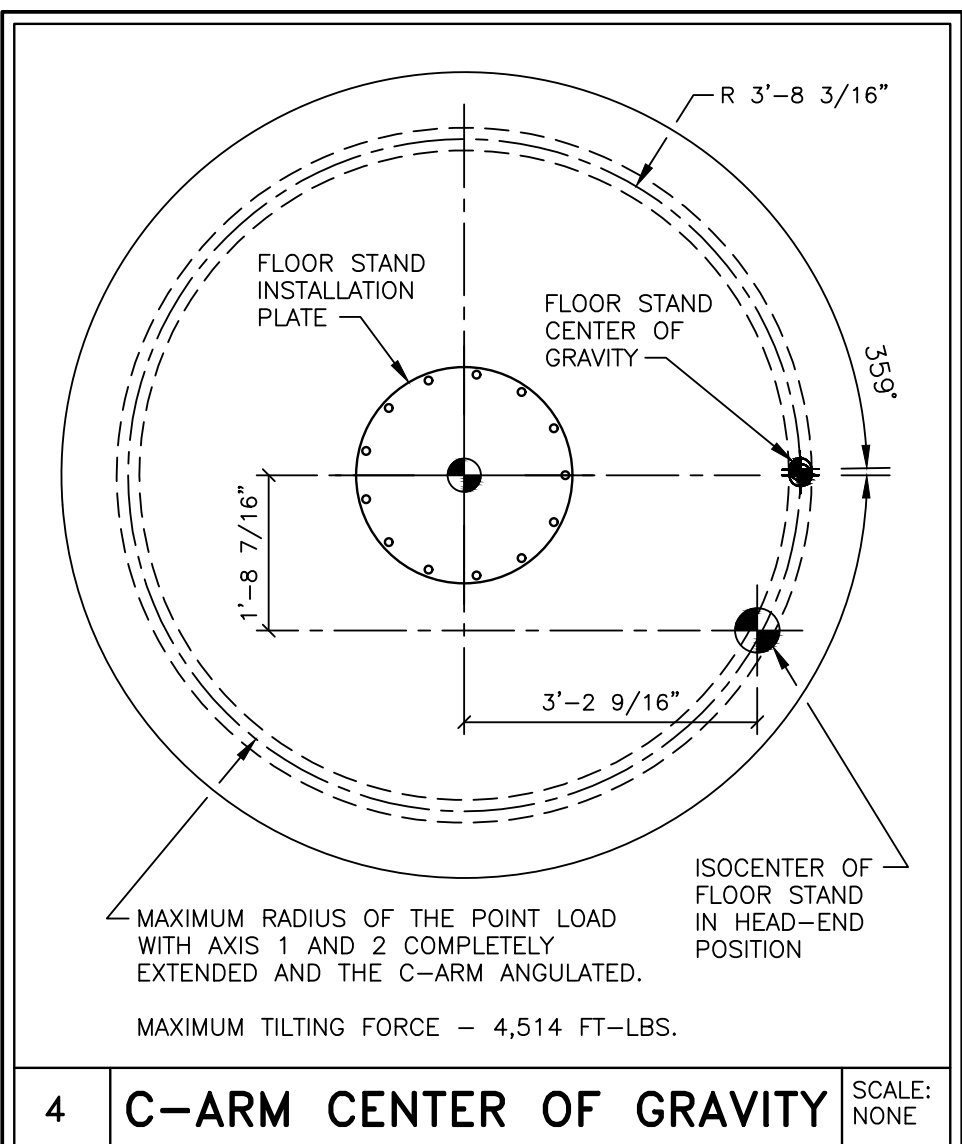
STRUCTURAL FLOOR PLAN

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



1 INSTALLATION PLATE FLOOR STAND AND PATIENT TABLE

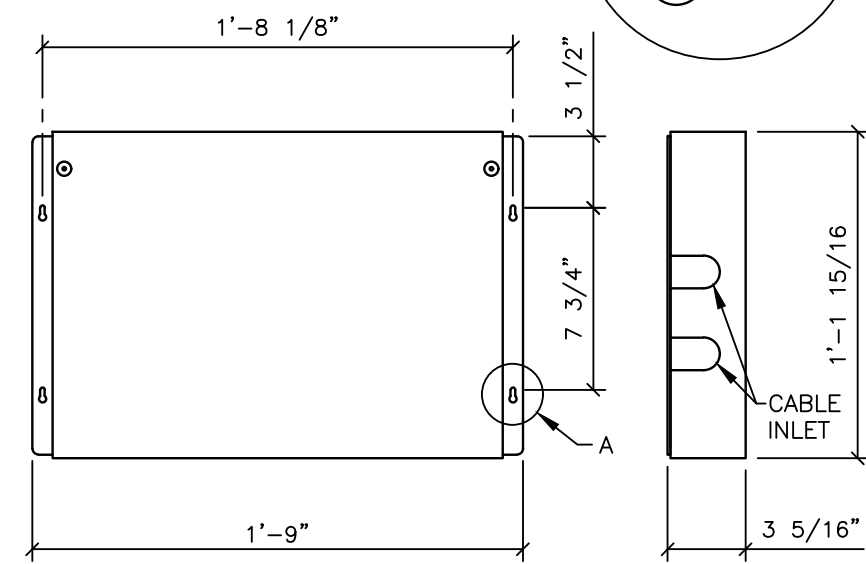
SCALE: NONE



SCALE: NONE

NOTES:

- 1) INTERFACE BOX INSTALLED ON WALL BELOW CONTROL COUNTER.
- 2) WALL MOUNTING SCREWS PROVIDED BY CONTRACTOR.



8 CONTROL INTERFACE BOX

SCALE: NONE

FLOOR STAND STATIC REQUIREMENTS

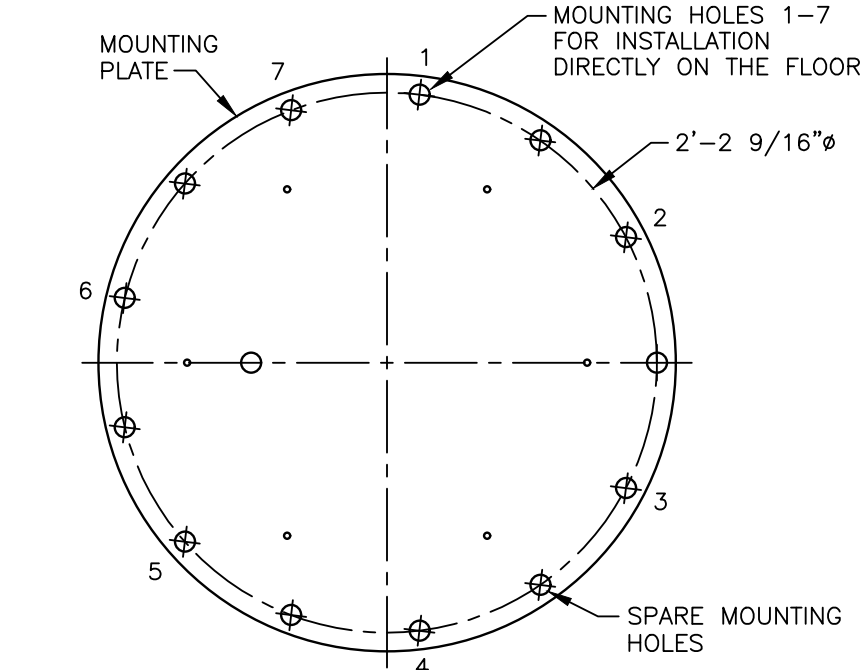
MAXIMUM TENSION FORCES:

NORMAL USE: 2,091 LB. (MOUNTING HOLES 1-7).

POWER FAIL: 2,518 LB. (MOUNTING HOLES 1-7).

THESE MAXIMUM VALUES DO NOT APPEAR SIMULTANEOUSLY ON ALL MOUNTING POINTS. TENSILE FORCES DEPEND ON THE WORKING POSITION AND SYSTEM MOVEMENT. THE MOUNTING PLATE IS ANCHORED IN REINFORCED CONCRETE BY MEANS OF 7 EQUALLY-SPACED HILTI HSL-3 M12/50 ANCHORS.

MIN. CONCRETE QUALITY: C20/25

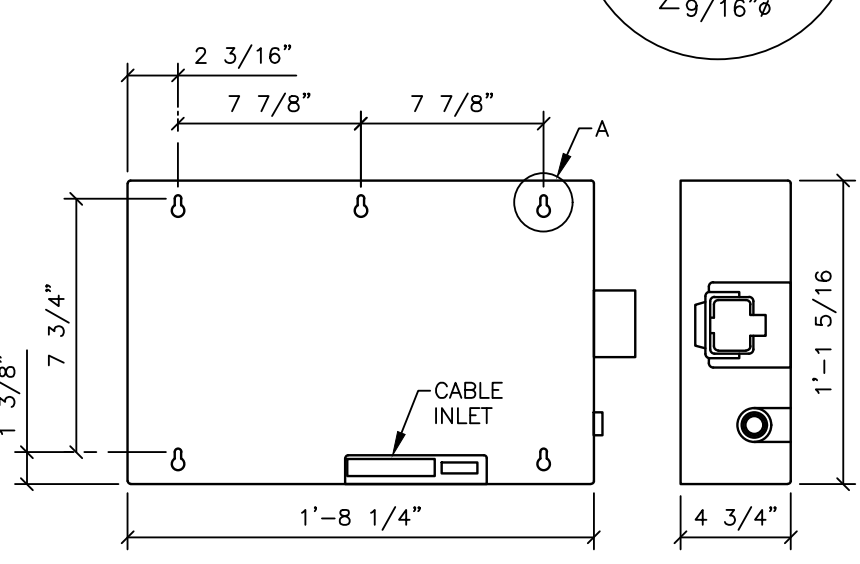


5 STATIC REQUIREMENTS

SCALE: NONE

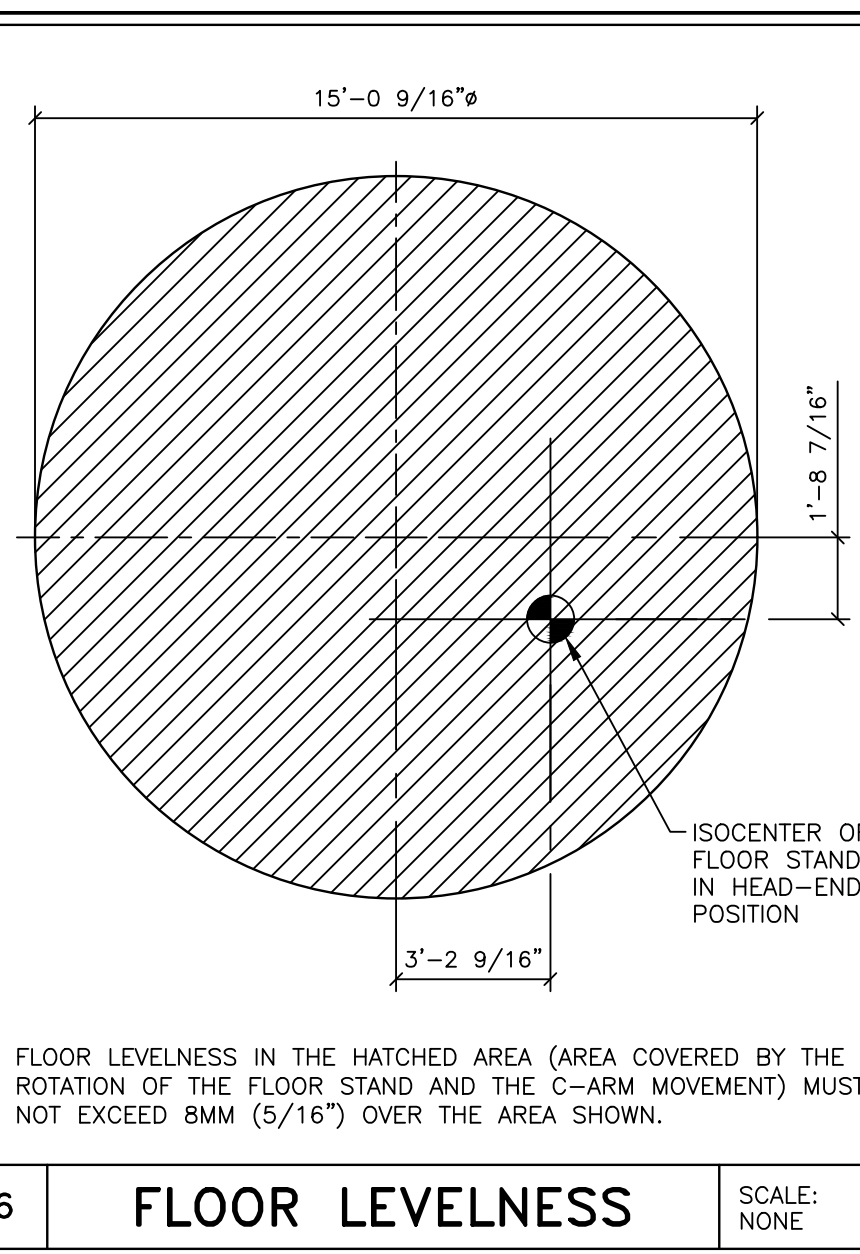
NOTES:

- 1) INJECTOR WALL BOX INSTALLED ON WALL BELOW CONTROL COUNTER.
- 2) WALL MOUNTING SCREWS PROVIDED BY CONTRACTOR.



9 INJECTOR WALL BOX (CR)

SCALE: NONE

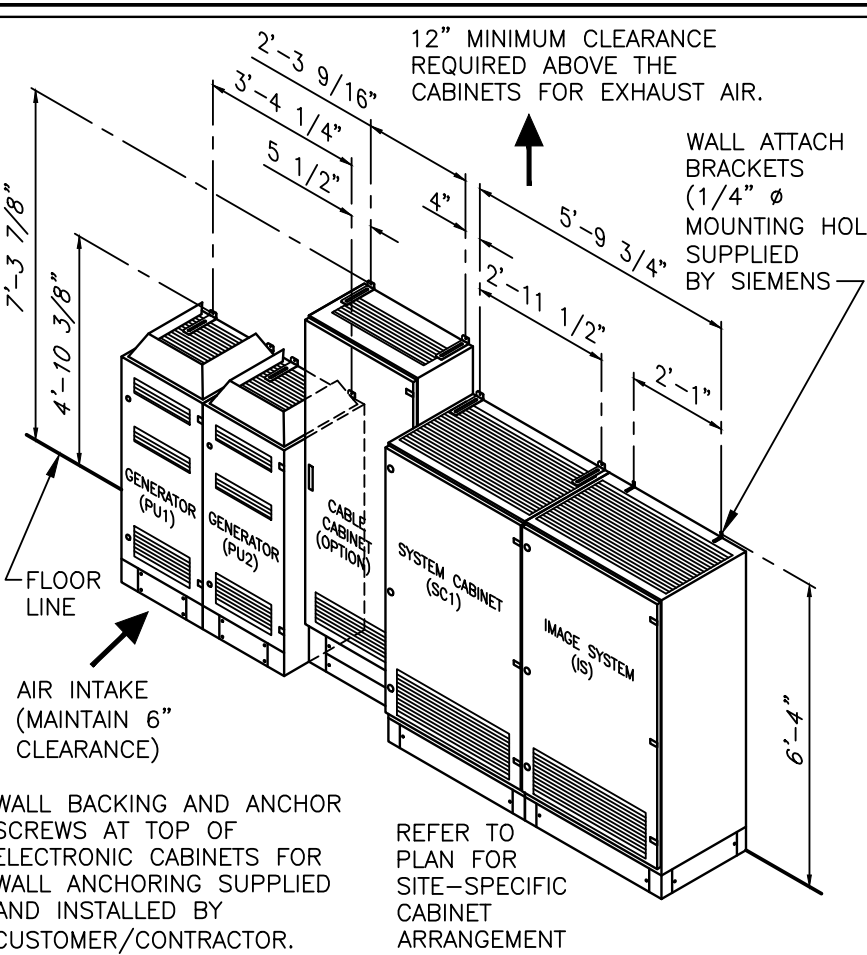


6 FLOOR LEVELNESS

SCALE: NONE

STRUCTURAL NOTES

- 1) THE CUSTOMER/CONTRACTOR SHALL FURNISH AND INSTALL ALL STRUCTURAL SUPPORT MEMBERS AND NEEDED HARDWARE FOR THE INSTALLATION OF THE SIEMENS EQUIPMENT.
- 2) THE OVERHEAD STRUCTURAL SUPPORT SYSTEM SHALL BE FIXED, RIGID AND BRACED FOR SWAY.
- 3) ALL STRUCTURAL SUPPORT MEMBERS SHALL BE TRUE, SQUARE, LEVEL, PARALLEL AND COPLANAR WITH RESPECT TO EACH OTHER, WITH A HORIZONTAL STRUCTURAL SUPPORT MEMBER TO BE LOCATED AND SET WITH A TRANSIT.
- 4) ALL STRUCTURAL SUPPORT DETAILS SHOWN ARE SAMPLE DETAILS BASED UPON TYPICAL AND STANDARD BUILDING PRACTICES AND ARE NOT INTENDED AS ACTUAL CONSTRUCTION DETAILS. ALL CONSTRUCTION DETAILS AND SUPPORT CALCULATIONS SHALL BE PREPARED BY A PROFESSIONAL STRUCTURAL ENGINEER AT THE CUSTOMER'S EXPENSE. IN THE EVENT AN EXISTING SUPPORT SYSTEM IS TO BE USED, IT WILL BE THE CUSTOMER'S RESPONSIBILITY TO VERIFY THE INTEGRITY OF THAT SYSTEM.
- 5) MOUNTING PLATES, FRAMES, AND HARDWARE SUPPLIED BY SIEMENS AS DETAILED IN THIS DRAWING SET ARE INSTALLED BY SIEMENS UNLESS OTHERWISE REQUIRED. ANY DEVIATION FROM THE PROVIDED MATERIALS OR MOUNTING METHODS MUST BE DESIGNED AND DOCUMENTED BY THE STRUCTURAL ENGINEER OF RECORD. ALTERNATE MOUNTING MATERIALS (I.E. ANCHORS, THREADED ROD, BACKING PLATES, ETC.) MUST BE SUPPLIED BY THE CUSTOMER/CONTRACTOR. SIEMENS MAY REQUIRE ASSISTANCE FROM THE CUSTOMER/CONTRACTOR WITH INSTALLATION WHEN UTILIZING ALTERNATE MOUNTING MATERIALS.
- 6) ALL CEILING FIXTURES (I.E. AIR SUPPLY GRILLES, AIR RETURN GRILLES, EXHAUST GRILLES, SPRINKLER HEADS, INCANDESCENT AND FLUORESCENT LIGHT FIXTURES, INTERCOM SPEAKERS, MEDICAL GAS COLUMNS, ETC.) SHALL BE INSTALLED FLUSH MOUNTED WITH THE FINISHED CEILING TO PROVIDE FREE AND UNRESTRICTED TRAVEL OF THE SMS CEILING MOUNTED EQUIPMENT.
- 7) THE 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.
- 8) 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.
- 9) 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.
- 10) ALL ANCHORS, SUPPORTS AND BRACES FOR SECURING THE SIEMENS EQUIPMENT ON THE UNDERSIDE OF THE CONCRETE SLAB (WHETHER SUPPLIED BY SIEMENS OR CONTRACTOR) SHALL BE SECURED IN A MANNER TO PREVENT THEM FROM FALLING DURING A DE-INSTALLATION. ALL WORK FOR SECURING THESE MOUNTS SHALL BE BY THE CONTRACTOR.



7 ELECTRONIC CABINET INSTALLATION

SCALE: NONE

ATTENTION:

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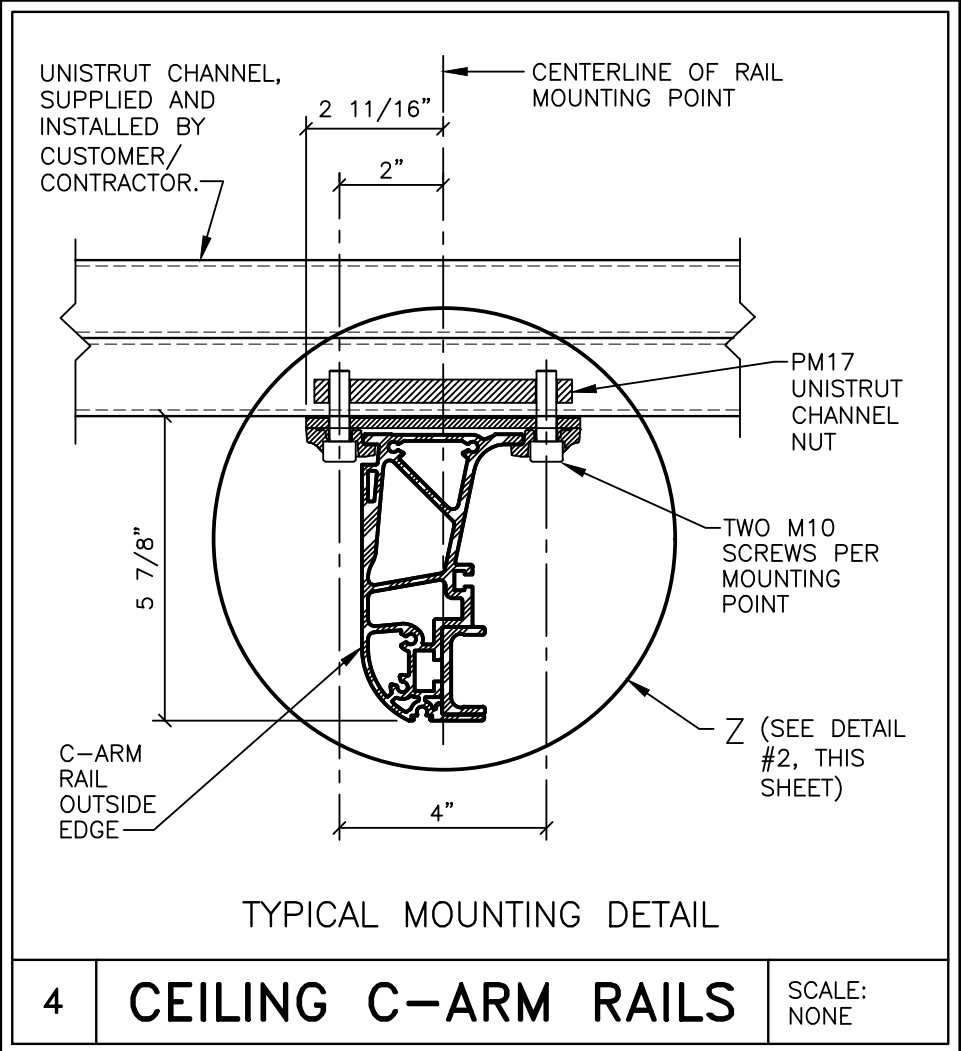
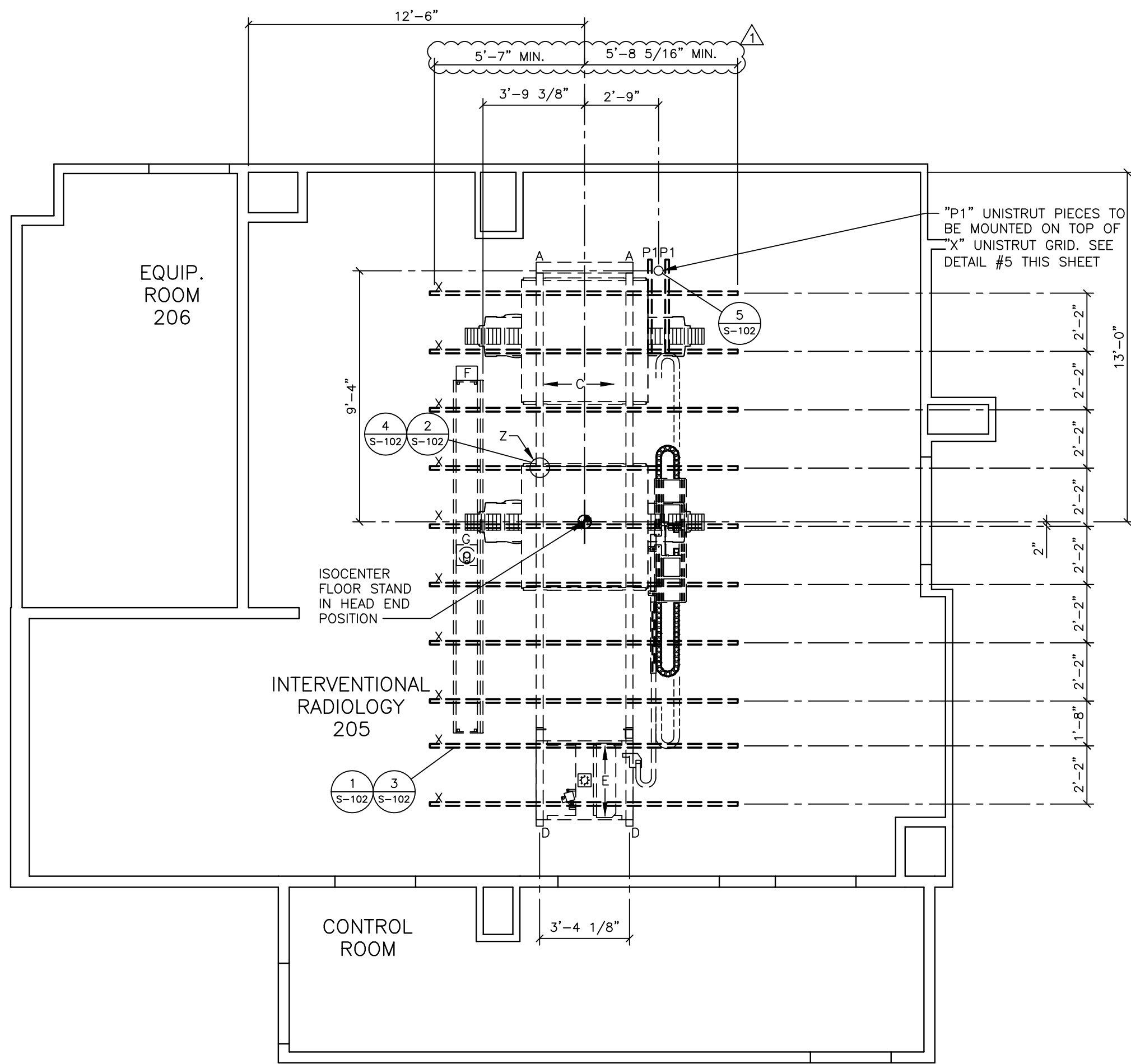
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— THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

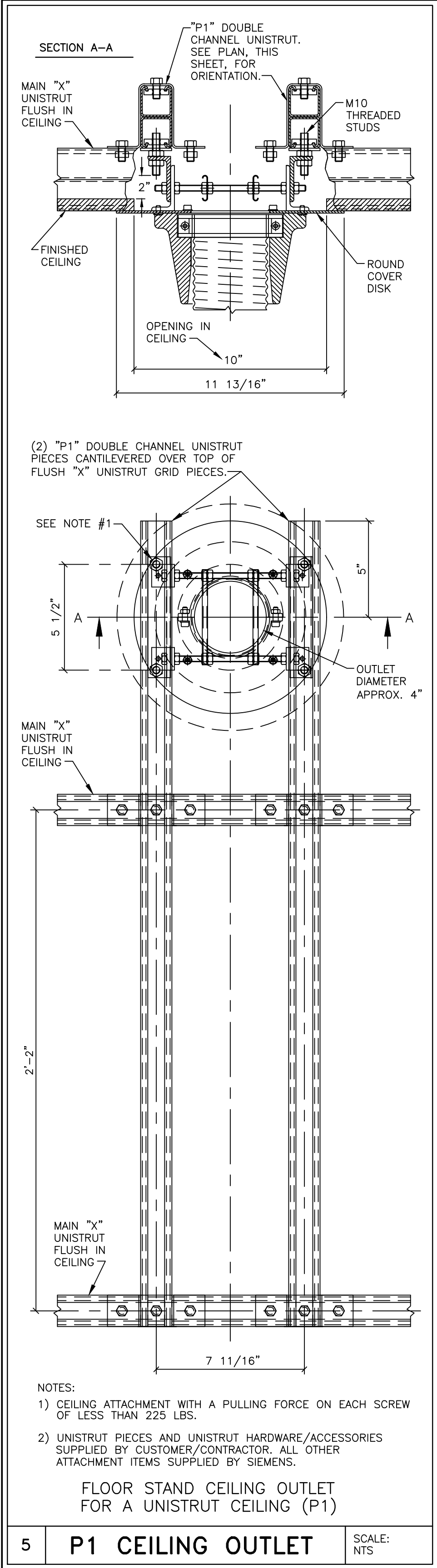
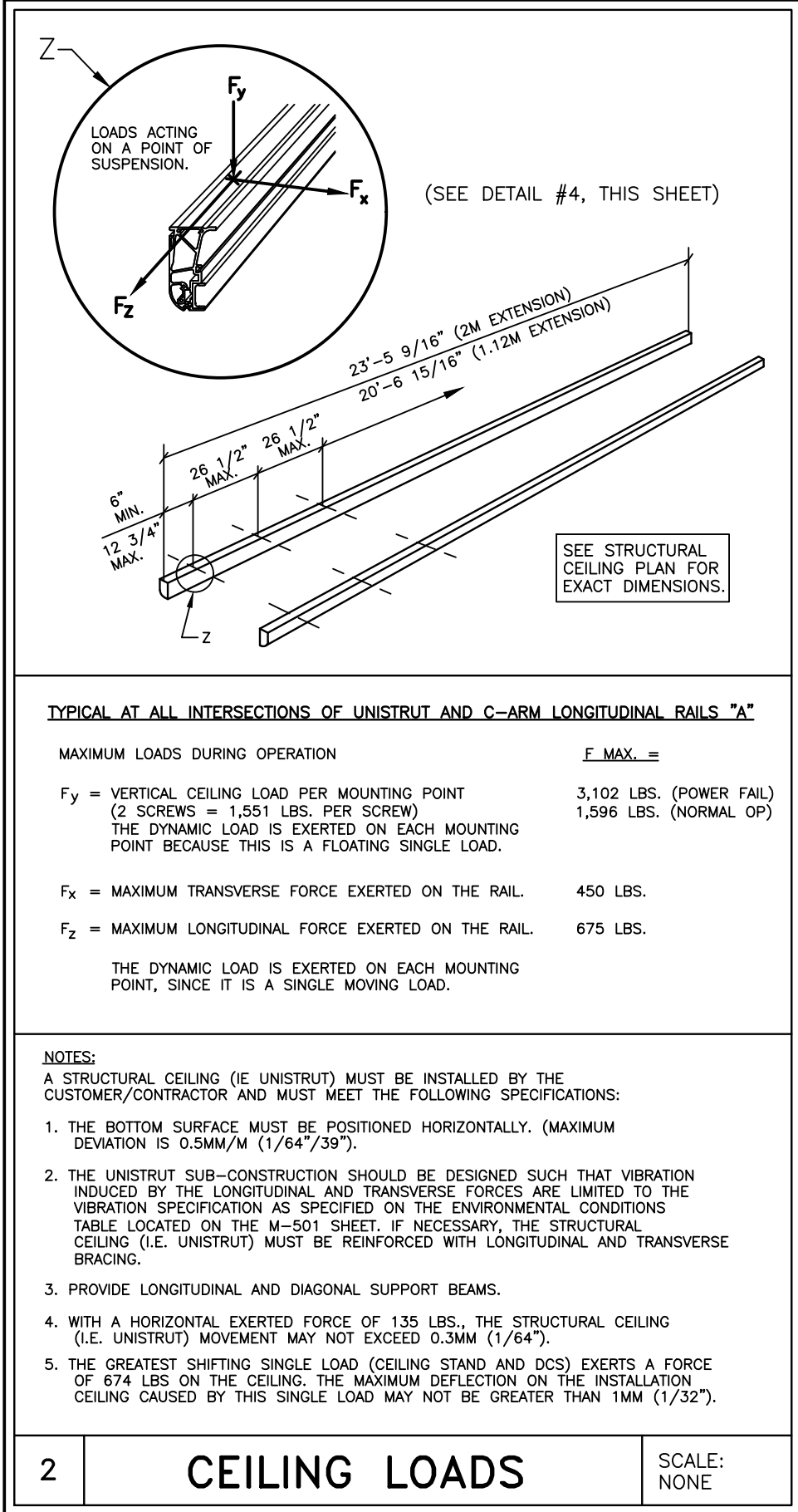
CEILING HEIGHT REQUIREMENT

9 FT. - 6 3/8 IN.

			PROJECT MANAGER: CHARLES VITELLO TEL: (732) 597-4829 FAX: (732) 435-0488 EMAIL: CHARLES.VITELLO@SIEMENS-HEALTHINEERS.COM		SIEMENS	
			RICHMOND MEDICAL CENTER			
			355 BARD AVE, STATEN ISLAND, NY 10310 BI PLANE LAB – ARTIS ICONO BIPLANE PRO			
	05/18/23	EQUIPMENT ROOM REARRANGED CEILING UNISTRUTS EXTENDED	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.		PROJECT #: 2310264	SHEET: S-101
	03/24/23	2310264RB DATED 02/15/23 APPROVED BY CUSTOMER FOR FINALS				
SYM	DATE	DESCRIPTION			SHEET 3 OF 8	DRAWN BY: P. WOTORTSI
—ISSUE BLOCK—			SCALE: AS NOTED	REF. #: CPQ-486795/3	DATE: 03/24/23	

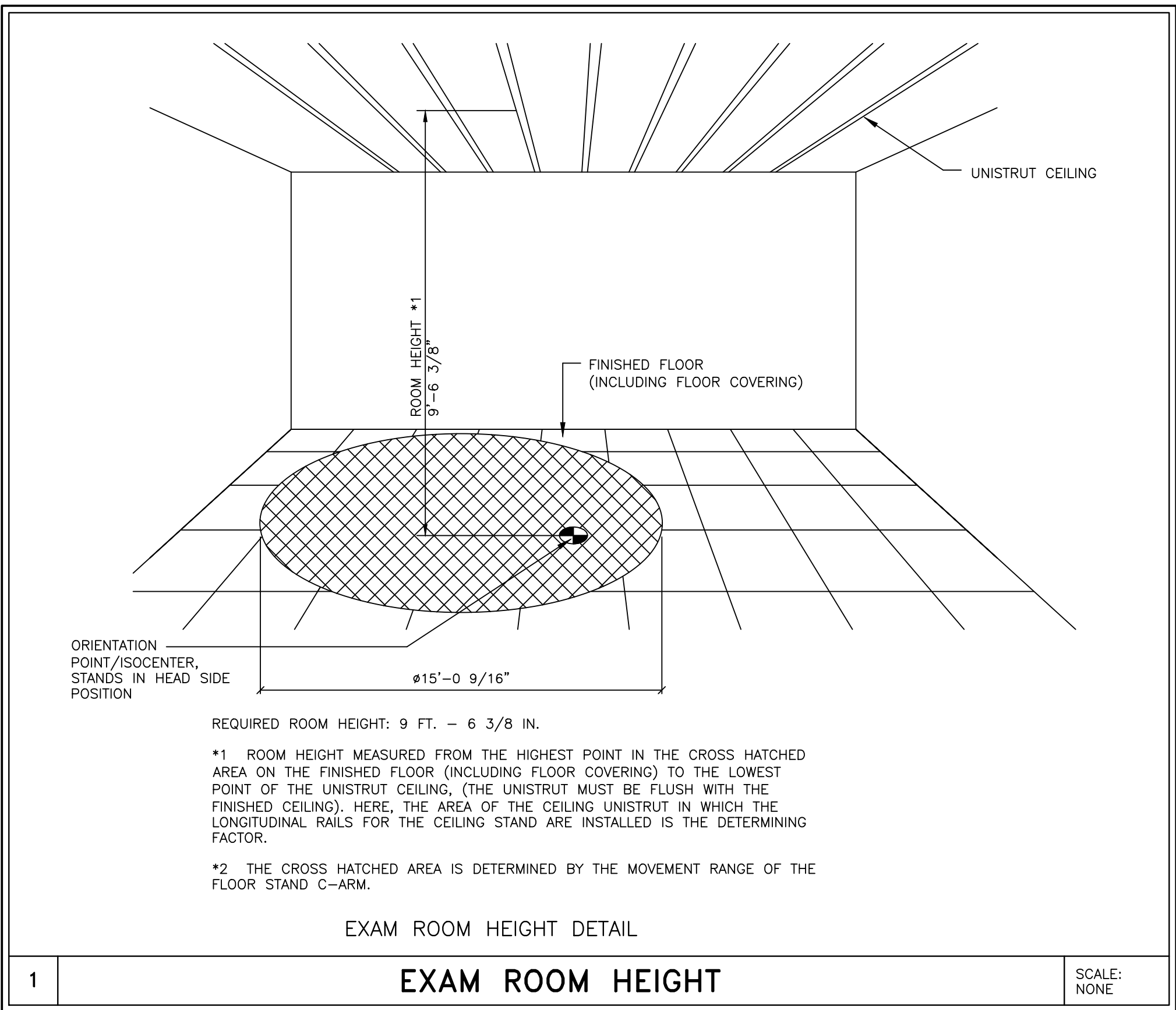


CEILING PLAN LEGEND		
SUPPLIED/INSTALLED BY SIEMENS		
SYM	DESCRIPTION	DET
A	LONGITUDINAL RAILS ATTACHED TO UNISTRUT	2,4
C	CEILING STAND MOVES ALONG LONGITUDINAL RAILS	2,4
D	DCS RAILS ATTACHED TO UNISTRUT	2,4
E	DCS CARRIAGE MOVES ALONG LONGITUDINAL RAILS	2,4
F	RAD. SHIELD RAILS ATTACHED TO UNISTRUT	—
G	RADIATION SHIELD SUPPORT CARRIAGE MOVES ALONG RAILS	—
Z	LONGITUDINAL RAIL SUPPORT MOUNTING POINT BOLTED TO UNISTRUT FRAME	2,4
SUPPLIED/INSTALLED BY CUSTOMER/CONTRACTOR		
SYM	DESCRIPTION	DET
X	P-1001 UNISTRUT (OR EQUIVALENT AS SPECIFIED BY STRUCTURAL ENGINEER OF RECORD) MOUNTED FLUSH WITH FINISHED CEILING. MUST BE LEVEL AS SPECIFIED BY SIEMENS ON STRUCTURAL NOTES AND DETAILS.	1,3
P1	CEILING OUTLET SUPPORTS	5
NOTE: 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.		



STRUCTURAL CEILING PLAN

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



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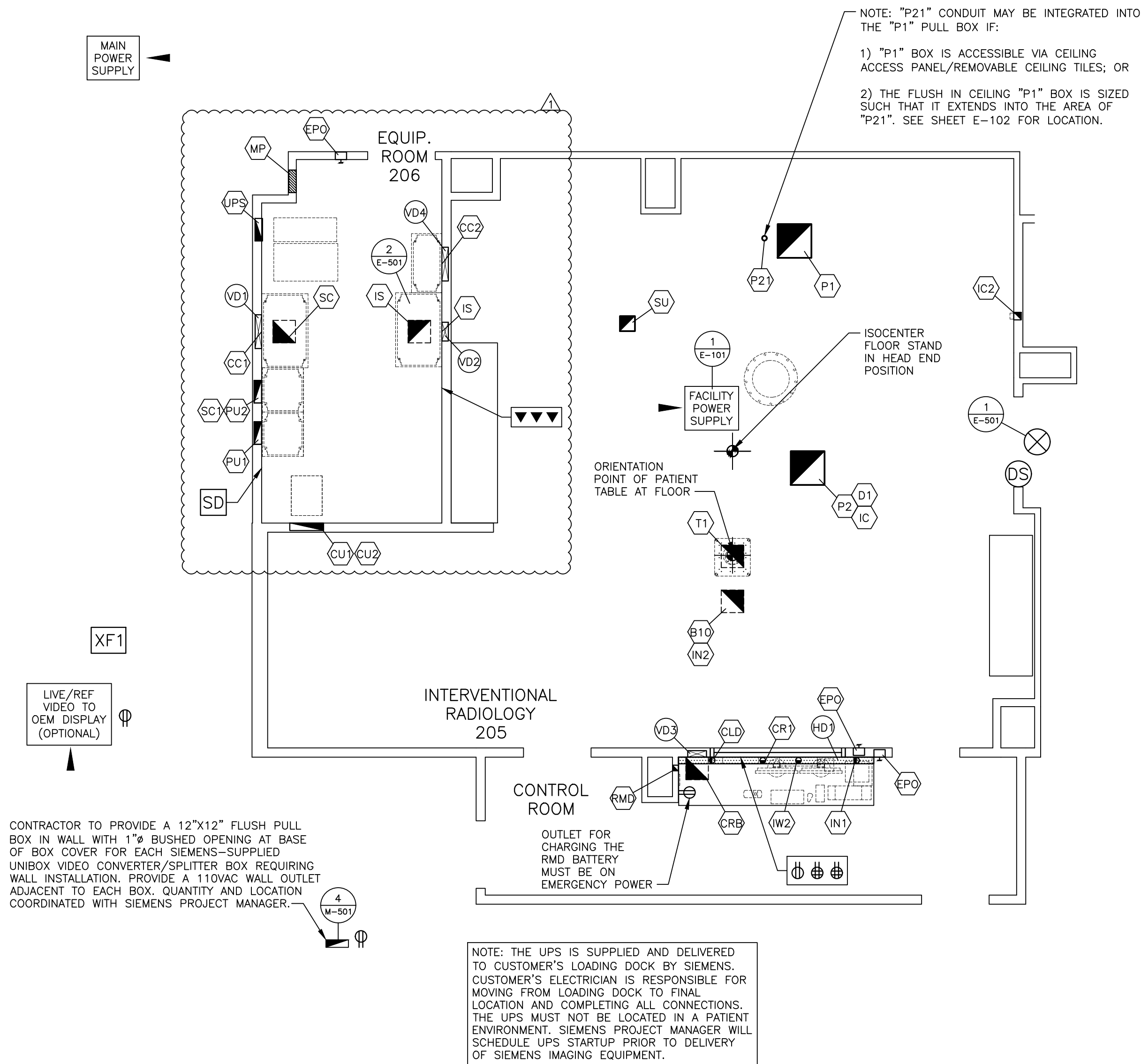
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RICHMOND MEDICAL CENTER		355 BARD AVE, STATEN ISLAND, NY 10310 BI PLANE LAB — ARTIS ICONO BIPLANE PRO	
PROJECT #:		SHEET:	
2310264		S-102	
SHEET 4 OF 8		DRAWN BY: P. WOTORTSI	
DATE: 03/24/23			
— ISSUE BLOCK —		ALL RIGHTS ARE RESERVED.	
SCALE: AS NOTED		REF. #: CPQ-486795/3	

ELECTRICAL RACEWAY PLAN



CONDUIT LEGEND			
SYM	SIZE	DESCRIPTION SUPPLIED AND INSTALLED BY CUSTOMER/CONTRACTOR	REMARKS
1	EC TO SIZE	CONDUIT FROM PANEL TO "MP"	SEE "POWER SCHEDULE"
2	EC TO SIZE	CONDUIT FROM "MP" TO "PU1"	SEE "POWER SCHEDULE"
3	EC TO SIZE	CONDUIT FROM "MP" TO "PU2"	SEE "POWER SCHEDULE"
4	EC TO SIZE	CONDUIT FROM "MP" TO "UPS" WITH FLEX CONDUIT FROM UPS BOX TO UPS CABINET.	SEE "POWER SCHEDULE"
5	EC TO SIZE	CONDUIT FROM "UPS" TO "SD" WITH FLEX CONDUIT FROM UPS BOX TO OUTPUT XFMR CABINET.	SEE "POWER SCHEDULE"
6	EC TO SIZE	CONDUIT FROM "SD" TO "SC1"	SEE "POWER SCHEDULE"
7	3/4"	CONDUIT FROM "UPS" TO "EPO" WITH FLEX CONDUIT FROM UPS BOX TO UPS CABINET.	SEE "POWER SCHEDULE"
8	3/4"	CONDUIT FROM "RMD" TO "UPS"	SEE "POWER SCHEDULE"
9	3/4"	CONDUIT FROM "MP" TO "EPO"	SEE "POWER SCHEDULE"
10	EC TO SIZE	CONDUIT FROM "EPO" TO "EPO"	
11	EC TO SIZE	CONDUIT FROM "SC1" TO "WL"	
12	EC TO SIZE	CONDUIT FROM "SC1" TO "DS"	
13	EC TO SIZE	CONDUIT FROM "MP" TO "XF1" (OPTIONAL)	TABLE POWER OUTLET
14	EC TO SIZE	CONDUIT FROM 110V, 15A FACILITY POWER SOURCE TO "SU"	MAVIG LED EXAM LIGHT
15	2"	CONDUIT FROM "P1" TO "VD1" (PU1)	MAX. CONDUIT LENGTH 34'
16	3"	CONDUIT FROM "P1" TO "VD1" (PU1)	MAX. CONDUIT LENGTH 39'
17	4"	CONDUIT FROM "P1" TO "VD1" (SC1)	MAX. CONDUIT LENGTH 37'
18	2"	CONDUIT FROM "P1" TO "VD1" (SC1)	MAX. CONDUIT LENGTH 36'
19	2 1/2"	CONDUIT FROM "P21" TO "VD1" (SC1)	MAX. CONDUIT LENGTH 50'
20	2 1/2"	CONDUIT FROM "P1" TO "CU1" FOR LIQUID COOLING HOSES	MAX. CONDUIT LENGTH 96'
21		CONDUIT REMOVED	
22	(2) 3"	CONDUITS FROM "SC1" TO "CR1"	MAX. CONDUIT LENGTH 34'
23	3"	CONDUIT FROM "SC" (SC1) TO "T1" UNDER FLOOR	MAX. CONDUIT LENGTH 36'
24	4"	CONDUIT FROM "SC" (SC1) TO "T1" UNDER FLOOR	MAX. CONDUIT LENGTH 36'
25	2"	CONDUIT FROM "VD1" (SC1) TO "CU1"	MAX. CONDUIT LENGTH 83'
26	2"	CONDUIT FROM "VD1" (SC1) TO "CU2"	MAX. CONDUIT LENGTH 83'
27	3"	CONDUIT FROM "VD1" (SC1) TO "D1"	MAX. CONDUIT LENGTH 47'
28	2 1/2"	CONDUIT FROM "VD2" (IS) TO "D1"	MAX. CONDUIT LENGTH 63'
29	(2) 2"	CONDUITS FROM "VD2" (IS) TO "VD3" (CR1)	MAX. CONDUIT LENGTH 37'
30	(2) 3"	CONDUITS FROM "VD2" (IS) TO "VD3" (CLD) (C-ROOM CUSTOMER LD INPUTS)	MAX. CONDUIT LENGTH 105'
31	VARIES	CONDUIT(S) FROM "VD2" (IS) TO CUSTOMER SOURCES	MAX. CONDUIT LENGTH 106'
32	2"	CONDUIT FROM "P2" TO "VD1" (PU2)	MAX. CONDUIT LENGTH 37'
33	3"	CONDUITS FROM "P2" TO "VD1" (PU2)	MAX. CONDUIT LENGTH 37'
34	4"	CONDUIT FROM "P2" TO "VD1" (SC1)	MAX. CONDUIT LENGTH 37'
35	(2) 2"	CONDUITS FROM "P2" TO "VD1" (SC1)	MAX. CONDUIT LENGTH 37'
36	2 1/2"	CONDUIT FROM "P2" TO "CU2" FOR LIQUID COOLING HOSES	MAX. CONDUIT LENGTH 91'
37		CONDUIT REMOVED	
38	3"	CONDUIT FROM "CRB" TO "T1" (VOLCANO SSI CABLE SET FOR PHILIPS INTRASIGHT)	MAX. CONDUIT LENGTH 92'
39	3"	CONDUIT FROM "CRB" (N1) TO "IN2" UNDER FLOOR (INJECTOR POWER/CONTROL UNITS TO INJECTOR HEAD)	MAX. CONDUIT LENGTH 52'
40	3"	CONDUIT FROM "VD1" (SC1) TO "VD3" (IW2)	MAX. CONDUIT LENGTH 30'
41	3/4"	CONDUIT FROM "VD3" TO "IC" (INTERCOM)	MAX. CONDUIT LENGTH 67'
42	3/4"	CONDUIT FROM "VD3" TO "IC2" (INTERCOM)	MAX. CONDUIT LENGTH 67'
43	3"	CONDUIT FROM "T1" TO "B10" UNDER FLOOR	
44	3"	CONDUIT FROM "CRB" TO "B10" UNDER FLOOR	
45	1/2"	CONDUIT FROM "XF1" TO "SC1" ("T1") (OPTIONAL TABLE POWER OUTLET)	MAX. CONDUIT LENGTH 71'
46	2"	CONDUIT FROM "VD2" (IS) TO "CUSTOMER MONITOR" (LIVE+REF TO OEM OPTION)	MAX. CONDUIT LENGTH 94'
47	3"	CONDUIT FROM "VD1" (SC1) TO "VD2" (IS)	MAX. CONDUIT LENGTH 28'

ELECTRICAL NOTES

- 1) COMPLIANCE: ELECTRICAL WORK SHALL BE IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE (NFPA-70), O.S.H.A. REGULATIONS, AS WELL AS APPLICABLE REGULATIONS OF CITY, COUNTY, STATE AND FEDERAL AGENCIES. PROVIDE MATERIALS AND EQUIPMENT THAT COMPLY WITH ANSI, IEEE AND NEMA STANDARDS AND ARE U.L. LISTED AND LABELED. THE CUSTOMER'S/CONTRACTOR'S WORK AND ALL EQUIPMENT INSTALLED SHALL COMPLY WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE ADOPTED/ENFORCED BY THE AUTHORITY HAVING JURISDICTION.
- 2) QUALITY ASSURANCE: THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD TO INSURE THAT THE NEW WORK WILL FIT INTO THE EXISTING STRUCTURE AS SHOWN ON THE DRAWINGS. SHOULD ANY CONDITIONS EXIST OR BE DISCOVERED THAT PREVENT THE INSTALLATION OF WORK AS SHOWN, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO FABRICATION OF EQUIPMENT, OR THE PERFORMANCE OF ANY WORK THAT MAY BE AFFECTED. DO NOT ALTER DRAWINGS, DIMENSIONS, OR SPECIFICATIONS IN ANY WAY WITHOUT CONTACTING AND RECEIVING WRITTEN CONFIRMATION FROM SIEMENS PROJECT MANAGER. ALL DIMENSIONS ARE FROM FINISHED SURFACES. CONDUIT AND PULL BOXES TO BE INSTALLED BY THE CUSTOMER/CONTRACTOR WITH LOCATIONS BEING FIELD VERIFIED BY THE SIEMENS PROJECT MANAGER.
- 3) POWER SUPPLY SOURCE: POWER SUPPLIES FOR SIEMENS HEALTHCARE EQUIPMENT SHALL BE FROM A MEDICAL IMAGING PANEL OR BUILDING SERVICE EQUIPMENT THAT IS A GROUNDED 3 OR 4-WIRE "WYE" SOURCE PER THE SPECIFIC EQUIPMENT OPERATION REQUIREMENTS. A DEDICATED CIRCUIT SHALL BE PROVIDED THAT IS KEPT ENTIRELY FREE AND INDEPENDENT OF ALL OTHER BUILDING WIRING. NO ELEVATORS, GENERATORS, PUMPS, HVAC OR SIMILAR EQUIPMENT SHALL BE CONNECTED TO THE SAME CIRCUIT OR MEDICAL IMAGING PANEL THAT SERVES THE SIEMENS HEALTHCARE EQUIPMENT. IF THE POWER SUPPLY SOURCE DOES NOT MEET THE SPECIFIC SIEMENS EQUIPMENT POWER REQUIREMENTS, THE CONTRACTOR SHALL PROVIDE THE NECESSARY EQUIPMENT REQUIRED TO ESTABLISH THE POWER SUPPLY IN ACCORDANCE WITH THE REQUIRED POWER SUPPLY PARAMETERS OF THE SIEMENS EQUIPMENT. THE CONTRACTOR SHALL COORDINATE THIS WORK WITH THE CUSTOMER AND/OR UTILITY COMPANY FIELD REPRESENTATIVE.
- 4) WORK FURNISHED BY CUSTOMER/CONTRACTOR: WORK NOT PROVIDED BY 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 OBSTRUCTIONS 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.

CONDUIT LENGTH CALCULATIONS

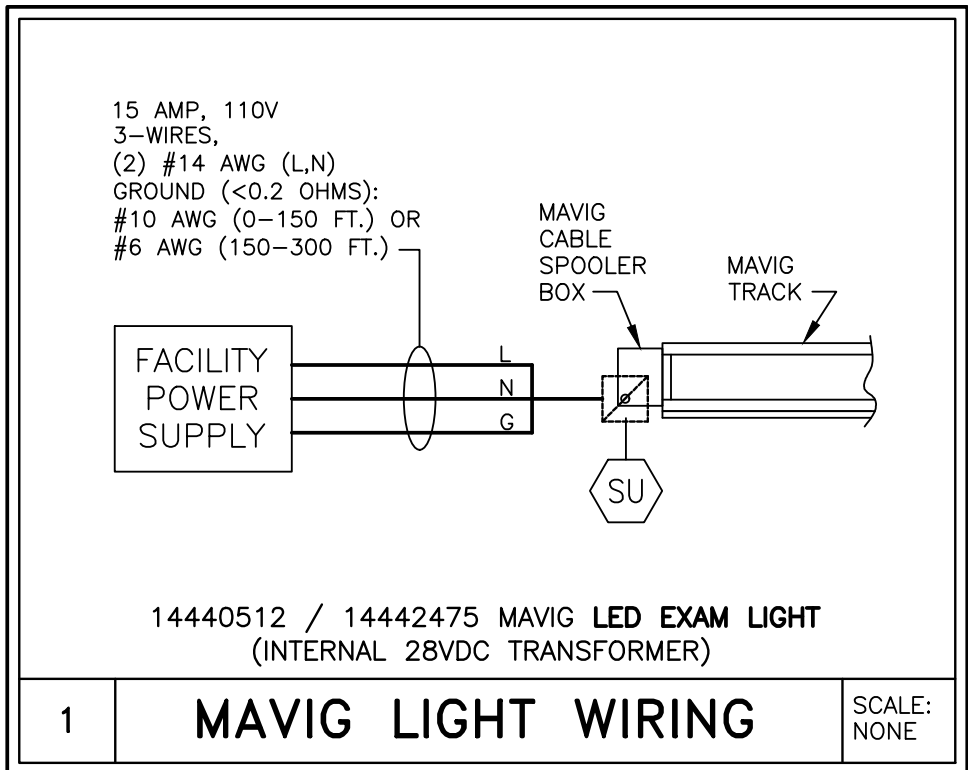
IF SITE-SPECIFIC CONDITIONS EXCEED THE FOLLOWING ASSUMED VALUES, THEN ADDITIONAL LENGTH MUST BE SUBTRACTED BY THE ELECTRICAL CONTRACTOR FROM THE MAXIMUM CONDUIT LENGTHS LISTED.

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 - 12'-0"

FLOOR PENETRATIONS - 3'-0"



SYMBOLS

ALL MAY NOT APPLY

	CIRCUIT BREAKER BY CUSTOMER/CONTRACTOR
	OPENING IN RACEWAY OR TRENCH/DUCT
	PULLBOX IN (FLOOR/WALL/CEILING)
	OPENING IN ACCESS FLOORING
	WARNING LIGHT (X-RAY ON)
	DOOR SAFETY SWITCH
	(EPO) EMERGENCY POWER OFF BUTTON
	TRENCH DUCT
	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
	110 VOLT, 20 AMP, HOSPITAL GRADE QUAD OUTLET

CEILING
HEIGHT
REQUIREMENT

9 FT. - 6 3/8 IN.

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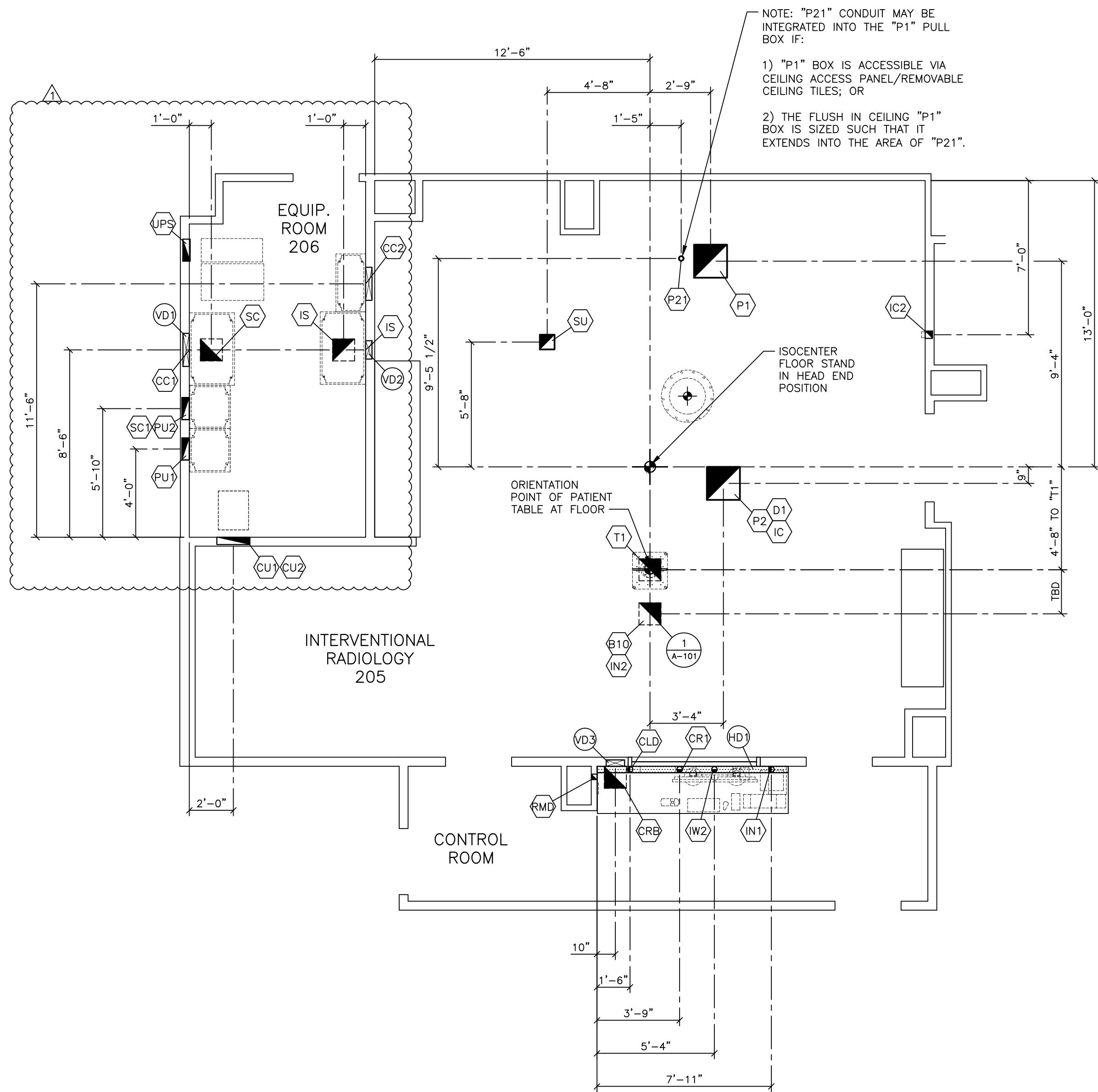
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PROJECT #: 2310264		SHEET: E-101	
SHEET 5 OF 8		DRAWN BY: P. WOTORTSI	
DATE: 03/24/23		SCALE: AS NOTED REF. #: CPQ-486795/3	
05/18/23 EQUIPMENT ROOM REARRANGED 03/24/23 CEILING UNISTRUTS EXTENDED 2310264RB DATED 02/15/23 APPROVED BY CUSTOMER FOR FINALS		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.	
SYM DATE DESCRIPTION		-ISSUE BLOCK-	



NOTE: "P21" CONDUIT MAY BE INTEGRATED INTO THE "P1" PULL BOX IF:

1) "P1" BOX IS ACCESSIBLE VIA CEILING ACCESS PANEL/REMOVABLE CEILING TILES; OR

2) THE FLUSH IN CEILING "P1" BOX IS SIZED SUCH THAT IT EXTENDS INTO THE AREA OF "P21".

ELECTRICAL DIMENSION PLAN

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

ELECTRICAL LEGEND			
SYM	SIZE	DESCRIPTION SUPPLIED AND INSTALLED BY CUSTOMER/CONTRACTOR	REMARKS
	AS REQUIRED	PULL BOX MOUNTED BELOW FINISHED FLOOR WITH REMOVABLE BOTTOM COVER. PROVIDE 3/4" CONDUIT FROM BOX TO FLUSH WITH FINISHED FLOOR. PROVIDE STAINLESS STEEL WATERPROOF PLATE ON TOP OF CORED OPENING IN FLOOR.	TABLE ACCESSORIES
	18" X 8"	BUSHED OPENING IN VERTICAL DUCT "VD1" COVER AT FLOOR LINE.	CABLE CABINET
	3/4"	BUSHED OPENING IN TOP OF HORIZONTAL DUCT "HD1".	C-Room LD INPUTS
	3/4"	BUSHED OPENING IN TOP OF HORIZONTAL DUCT "HD1".	CONTROL ROOM DISTRIBUTOR
	AS REQUIRED	PULL BOX MOUNTED BELOW FINISHED FLOOR WITH REMOVABLE BOTTOM COVER. FOR A SINGLE CONDUIT CONNECTION TO THIS BOX, PROVIDE A 3" CONDUIT THRU FLOOR. FOR MULTIPLE CONDUIT CONNECTIONS, PROVIDE (2) 4" CONDUITS THRU FLOOR. E.C. TO DESIGN TRANSITION TO SURFACE FLOOR DUCT AS REQUIRED.	CONTROL ROOM BOX
	AS REQUIRED	PULL BOX MOUNTED FLUSH IN FINISHED WALL AT FLOOR LINE. PROVIDE BOX WITH REMOVABLE FRONT COVER AND (1) 4/8" BUSHING IN CENTER OF REMOVABLE COVER FOR CABLE EXIT. SEE PLAN FOR LOCATION.	TUBE COOLING UNITS
	---	FIXPOINT DESIGNATION, SAME PULL BOX / OPENING AS "P2".	DCS
		EMERGENCY OFF BUTTONS FOR CIRCUIT BREAKERS. EPO'S MUST PREVENT RESETTING OF CIRCUIT BREAKERS WHEN IN OFF POSITION. EPO'S MUST BE RECESSED OR SHIELDED. FINAL LOCATION DETERMINED BY CUSTOMER.	EMERGENCY POWER OFF
	---	FIXPOINT DESIGNATION, SAME PULL BOX / OPENING AS "D1".	INTERCOM COMFORT MIC
	AS REQUIRED	PULL BOX MOUNTED FLUSH IN FINISHED WALL AT A RECOMMENDED HEIGHT OF 6' AFF.	INTERCOM COMFORT SPEAKER
	3/4"	BUSHED OPENING IN TOP OF HORIZONTAL DUCT "HD1".	INJECTOR ELECTRONICS
	---	FIXED POINT DESIGNATION, SAME PULL BOX AS "B10".	TABLE INJECTOR
	3/4"	BUSHED OPENING IN TOP OF HORIZONTAL DUCT "HD1".	OPERATION IN CONTROL RM
	---	MAIN PANEL WITH MAIN BREAKER. LOCATION DETERMINED BY CUSTOMER/CONTRACTOR. SEE "POWER SCHEDULE"	BREAKER PANEL
	AS REQUIRED	PULL BOX MOUNTED ABOVE FINISHED CEILING. PROVIDE REMOVABLE BOTTOM COVER WITH 8/9" BUSHED OPENING. PROVIDE CORRESPONDING OPENING AT CEILING LINE.	FLOOR AND CEILING MOUNTED C-ARMS
	2 1/2"	CONDUIT STUB LOCATION FLUSH WITH FINISHED CEILING	CEILING STAND MOTOR
	AS REQUIRED	PULL BOX MOUNTED FLUSH IN FINISHED WALL AT FLOOR LINE. PROVIDE BOX WITH REMOVABLE FRONT COVER WITH 4/8" BUSHED OPENING AT BOTTOM OF COVER.	GENERATORS
	AS REQUIRED	SINGLE-GANG RJ45 JACK	UPS REMOTE DISPLAY
	AS REQUIRED	FIXED POINT DESIGNATION, SAME PULL BOX AS "PU2".	SYSTEM CABINET
	AS REQUIRED	PULL BOX MOUNTED BELOW FINISHED FLOOR WITH REMOVABLE BOTTOM COVER. PROVIDE 6/8" CONDUIT FROM BOX TO FLUSH WITH FINISHED FLOOR WITH BUSHING AT FLOOR LINE.	SYSTEM CABINET
	30A	3-PHASE (PLUS N,G) 30A, 600V HD FUSIBLE SERVICE DISCONNECT LOCATED AT EYE-LEVEL, WITHIN 10' OF SIEMENS SYSTEM CABINET (SC1) AND 30A RK5 FUSES. SEE POWER SCHEDULE.	UPS SERVICE DISCONNECT
	AS REQUIRED	PULL BOX MOUNTED ABOVE FINISHED CEILING. CONNECT 6 FOOT LONG FIXTURE WHIP, (EITHER 1/2" OR 3/8" GREENFIELD) TO BOX FOR TERMINATION TO SIEMENS EQUIPMENT AT CEILING LINE.	MAVIG LAMP
	AS REQUIRED	PULL BOX MOUNTED BELOW FINISHED FLOOR WITH REMOVABLE BOTTOM COVER. PROVIDE 6/8" CONDUIT FROM BOX TO FLUSH WITH FINISHED FLOOR WITH BUSHING AT FLOOR LINE.	TABLE
	AS REQUIRED	PULL BOX MOUNTED FLUSH IN FINISHED WALL AT FLOOR LINE. PROVIDE BOX WITH REMOVABLE FRONT COVER WITH 4/8" BUSHED OPENING.	15KVA UPS
	1.5KVA	STEP-DOWN TRANSFORMER. SEE POWER SCHEDULE.	XFMR FOR TABLE OUTLET
	3 1/2" X 10"	HORIZONTAL DUCT MOUNTED ON FINISHED WALL AT FLOOR LINE. PROVIDE DUCT WITH REMOVABLE FRONT COVER. CONNECT TO VERTICAL DUCT "VD3" AS SHOWN.	HORIZONTAL WALL DUCT
	---	REMOVED	
	3 1/2" X 18"	VERTICAL DUCT MOUNTED FLUSH IN FINISHED WALL. BEGIN DUCT AT FLOOR LINE AND EXTEND UP WALL ABOVE FINISHED CEILING. PROVIDE JUNCTION BOX (SIZED BY E.C.) AT TOP OF DUCT FOR CONDUIT TRANSITIONS.	VERTICAL DUCT
	3 1/2" X 10"	VERTICAL DUCT MOUNTED FLUSH IN FINISHED WALL. BEGIN DUCT AT FLOOR LINE AND EXTEND UP WALL ABOVE FINISHED CEILING. PROVIDE JUNCTION BOX (SIZED BY E.C.) AT TOP OF DUCT FOR CONDUIT TRANSITIONS.	VERTICAL DUCT
	3 1/2" X 10"	VERTICAL DUCT MOUNTED FLUSH IN FINISHED WALL. BEGIN DUCT AT FLOOR LINE AND EXTEND UP WALL ABOVE FINISHED CEILING. PROVIDE JUNCTION BOX (SIZED BY E.C.) AT TOP OF DUCT FOR CONDUIT TRANSITIONS.	VERTICAL DUCT

CEILING
HEIGHT
REQUIREMENT

9 FT. - 6 3/8 IN.

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.

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		PROJECT #:	
		2310264	
		SHEET 6 OF 8	
		DRAWN BY: P. WOTORTSI	
		DATE: 03/24/23	
		SHEET: E-102	
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