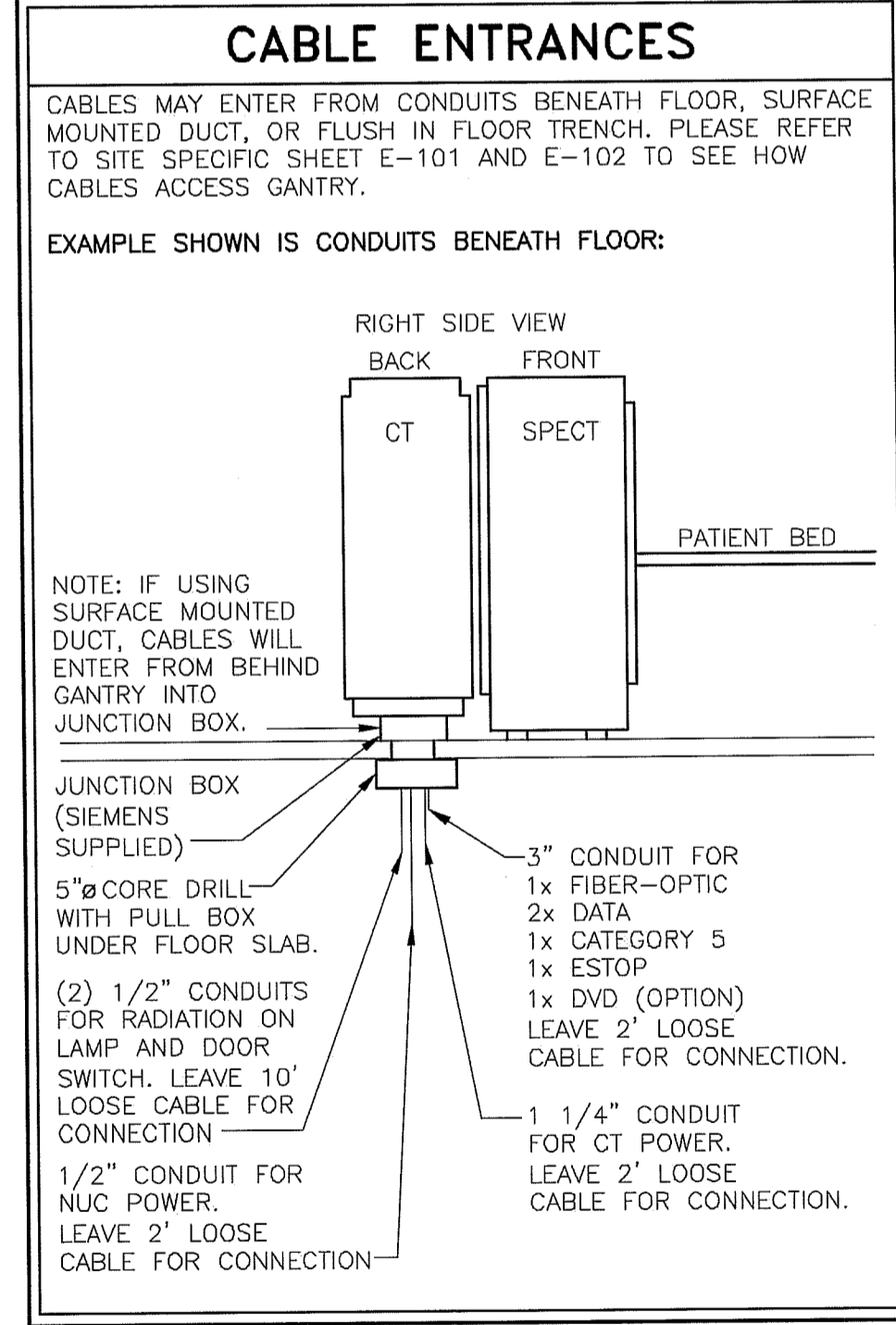
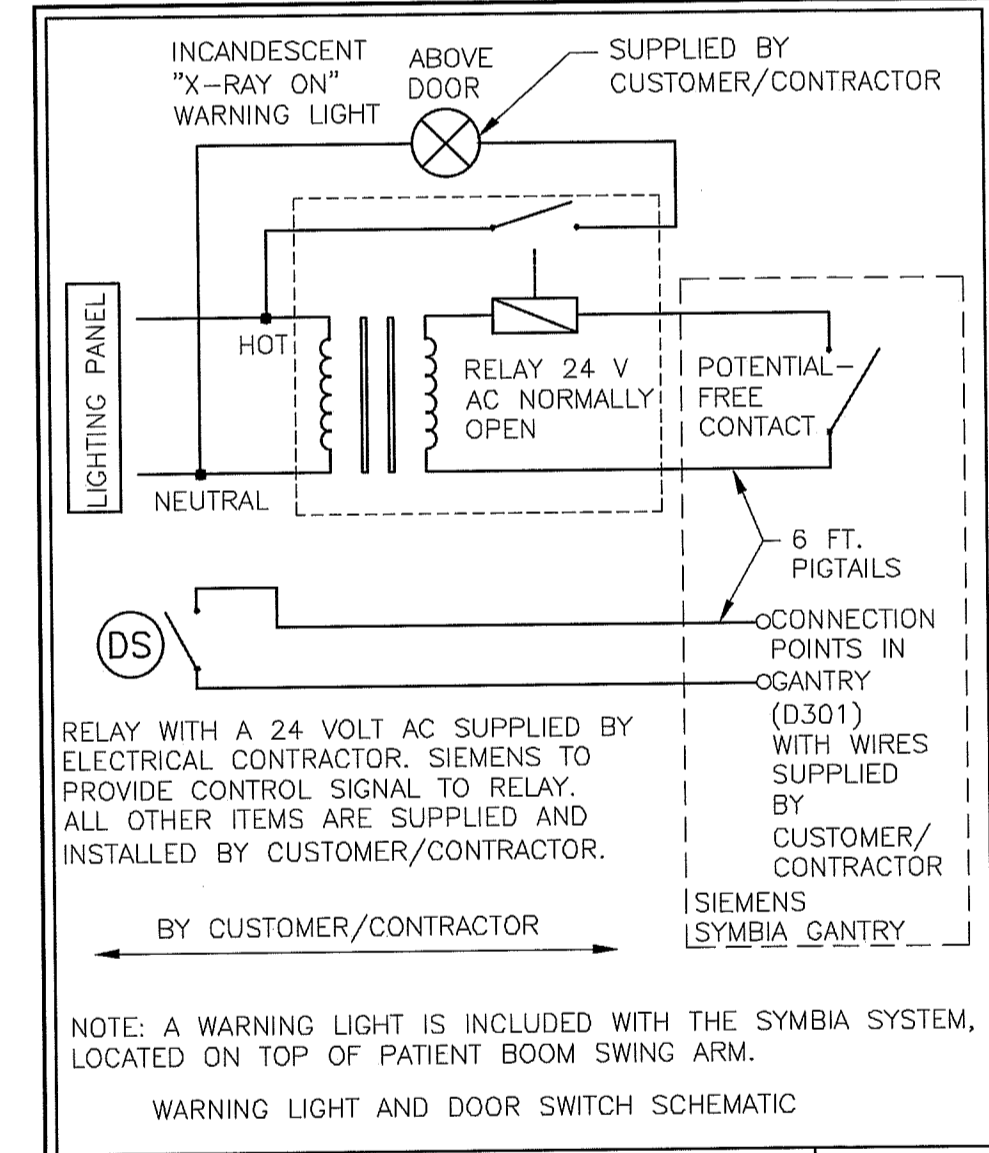
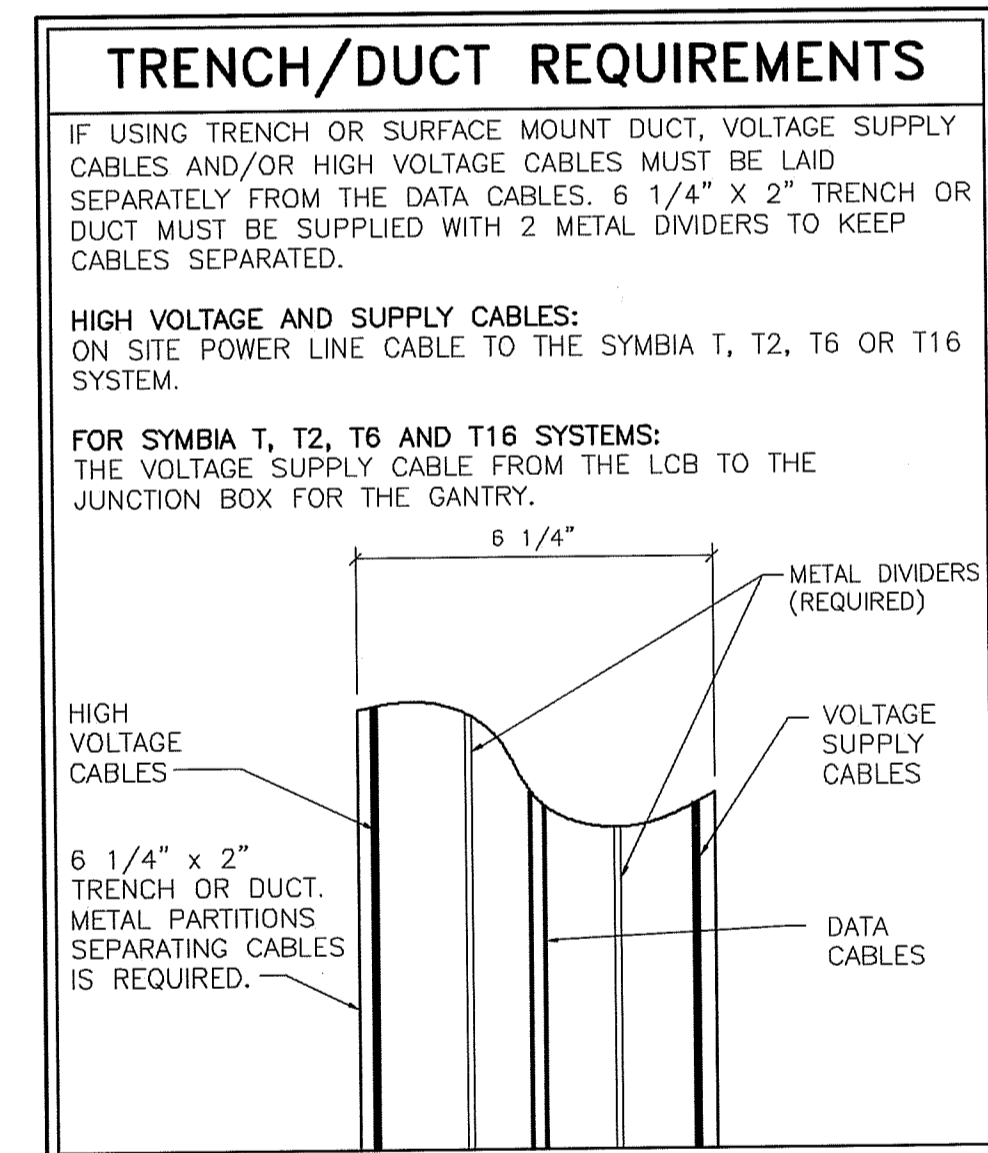


ELECTRICAL RACEWAY PLAN

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



TRENCH/DUCT REQUIREMENTS
 IF USING TRENCH OR SURFACE MOUNT DUCT, VOLTAGE SUPPLY CABLES AND/OR HIGH VOLTAGE CABLES MUST BE LAID SEPARATELY FROM THE DATA CABLES. 6 1/4" x 2" TRENCH OR DUCT MUST BE SUPPLIED WITH 2 METAL DIVIDERS TO KEEP CABLES SEPARATED.
HIGH VOLTAGE AND SUPPLY CABLES:
 ON SITE POWER LINE CABLE TO THE SYMBIA T, T2, T6 OR T16 SYSTEM.
FOR SYMBIA T, T2, T6 AND T16 SYSTEMS:
 THE VOLTAGE SUPPLY CABLE FROM THE LCB TO THE JUNCTION BOX FOR THE GANTRY.
 6 1/4" TRENCH OR DUCT. METAL PARTITIONS SEPARATING CABLES IS REQUIRED.
 HIGH VOLTAGE CABLES
 DATA CABLES
 METAL DIVIDERS (REQUIRED)
 VOLTAGE SUPPLY CABLES

AUXILIARY WIRING
 SCALE: NONE
 INCANDESCENT "X-RAY ON" WARNING LIGHT
 ABOVE DOOR
 SUPPLIED BY CUSTOMER/CONTRACTOR
 LIGHTING PANEL
 HOT
 NEUTRAL
 RELAY 24 V AC NORMALLY OPEN
 POTENTIAL-FREE CONTACT
 6 FT. PIGTAILS
 CONNECTION POINTS IN GANTRY (D301) WITH WIRES SUPPLIED BY CUSTOMER/CONTRACTOR
 SIEMENS SYMBIA GANTRY
 BY CUSTOMER/CONTRACTOR
 NOTE: A WARNING LIGHT IS INCLUDED WITH THE SYMBIA SYSTEM, LOCATED ON TOP OF PATIENT BOOM SWING ARM.
 WARNING LIGHT AND DOOR SWITCH SCHEMATIC

CABLE ENTRANCES
 CABLES MAY ENTER FROM CONDUITS BENEATH FLOOR, SURFACE MOUNTED DUCT, OR FLUSH IN FLOOR TRENCH. PLEASE REFER TO SITE SPECIFIC SHEET E-101 AND E-102 TO SEE HOW CABLES ACCESS GANTRY.
EXAMPLE SHOWN IS CONDUITS BENEATH FLOOR:
 RIGHT SIDE VIEW
 BACK FRONT
 CT SPECT
 PATIENT BED
 NOTE: IF USING SURFACE MOUNTED DUCT, CABLES WILL ENTER FROM BEHIND GANTRY INTO JUNCTION BOX.
 JUNCTION BOX (SIEMENS SUPPLIED)
 5" CORE DRILL WITH PULL BOX UNDER FLOOR SLAB.
 (2) 1/2" CONDUITS FOR RADIATION ON LAMP AND DOOR SWITCH. LEAVE 10' LOOSE CABLE FOR CONNECTION
 1/2" CONDUIT FOR NUC POWER. LEAVE 2' LOOSE CABLE FOR CONNECTION
 3" CONDUIT FOR 1x FIBER-OPTIC 2x DATA 1x CATEGORY 5 1x ESTOP 1x DVD (OPTION) LEAVE 2' LOOSE CABLE FOR CONNECTION.
 1 1/4" CONDUIT FOR CT POWER. LEAVE 2' LOOSE CABLE FOR CONNECTION.

ELECTRICAL LEGEND			
SYM	SIZE	DESCRIPTION	REMARKS
Ⓞ	6" x 4"	OPENING IN TOP OF FLUSH MOUNTED RACEWAY IN SHOWN LOCATION.	GANTRY CABLE ACCESS
Ⓛ	6" x 6"	PULL BOX MOUNTED FLUSH WITH FINISHED FLOOR IN SHOWN LOCATION PROVIDED WITH 3" OPENING IN FINISHED COVER.	PHS CABLE ACCESS UNDER THE GANTRY
Ⓜ	6" x 6"	PULL BOX MOUNTED FLUSH WITH FINISHED FLOOR IN SHOWN LOCATION PROVIDED WITH 3" OPENING IN FINISHED COVER.	PHS CABLE ACCESS UNDER THE PHS
Ⓢ	---	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
Ⓟ	AS REQUIRED	PULL BOX MOUNTED FLUSH WITH FINISHED WALL AT FLOOR LINE IN SHOWN LOCATION.	IMAGE CONSTRUCTION SYS
Ⓠ	---	FIXED POINT DESIGNATION, SAME PULL BOX/OPENING AS ICS.	IMAGE RECONSTRUCTION SYS
Ⓡ	---	MAIN PANEL WITH MAIN BREAKER FLUSH OR SURFACE MOUNTED. REFER TO POWER SCHEDULE.	SEE POWER SCHEDULE
Ⓢ	AS REQUIRED	PULL BOX MOUNTED FLUSH WITH FINISHED WALL AT FLOOR LINE IN SHOWN LOCATION. DIVIDE AS NECESSARY AND PROVIDE FULL, CLEAR ACCESS INTO TRENCH DUCT.	FOR TRANSITIONING CABLES IN CONDUITS IN WALL INTO TRENCH DUCT.
Ⓣ	6" x 4"	OPENING IN TOP OF FLUSH MOUNTED TRENCH IN SHOWN LOCATION.	UPS FOR SPECT
Ⓤ	AS REQUIRED	TRANSFORMER PROVIDING STEP DOWN POWER FOR THE SPECT UPS (SPS). EXACT LOCATION DETERMINED BY CUSTOMER/CONTRACTOR BASED ON LOCATION OF MP AND SPS. SUPPLIED BY CUSTOMER/CONTRACTOR	SEE POWER SCHEDULE
Ⓡ	---	FIXED POINT DESIGNATION, SAME PULL BOX/OPENING AS ICS.	
Ⓢ	6 1/4" x 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
①	AS REQUIRED	CONDUIT FROM POWER SOURCE TO "MP" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
②	AS REQUIRED	CONDUIT FROM "MP" TO "TF" BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
③	AS REQUIRED	CONDUIT FROM "TF" TO "PB" (SPS) BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
④	1 1/4"	CONDUIT FROM "MP" TO "PB" (B) BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
⑤	AS REQUIRED	CONDUIT FROM "MP" TO "EPO" BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
⑥	AS REQUIRED	CONDUIT FROM "EPO" TO "EPO" BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
⑦	AS REQUIRED	CONDUIT FROM "EPO" TO "PB" (SPS) BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
⑧	1/2"	CONDUIT FROM "PB" (B) TO "DOOR SAFETY SWITCH" BY ELECTRICAL ENGINEER OF RECORD.	SEE SHEET E-101
⑨	1/2"	CONDUIT FROM "PB" (B) TO "WARNING LIGHT" (X-RAY ON) SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE SHEET E-101
⑩	(2) 3"	CONDUIT "PB" (B) TO "ICS/IRS".	MAXIMUM CONDUIT LENGTH 82'-0"
⑪	3"	CONDUIT FROM "B1" TO "B2".	MAXIMUM CONDUIT LENGTH 20'-0"

CONTRACTOR SUPPLIED CABLES				
FROM	VIA	TO	DESCRIPTION	REMARKS
POWER SOURCE	1	MP	3-PHASE CONDUCTORS, 1 NEUTRAL AND GROUND ALL TO BE THE SAME SIZE. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
MP	2	TF	POWER CABLE FOR SPECT PORTION OF SYMBIA. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
TF	3, PB, FD1	SPS	POWER CABLE FOR SPECT PORTION OF SYMBIA. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
SPS	FD1	B	POWER CABLE FOR SPECT PORTION OF SYMBIA. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
MP	4, PB, FD1	B	POWER CABLE FOR CT PORTION OF SYMBIA. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
MP	5	EPO	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
EPO	6	EPO	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
EPO	7, PB, FD1	SPS	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
B	FD1, PB, B		DOOR SAFETY SWITCH	SEE SHEET E-101
B	FD1, PB, B		WARNING LIGHT	SEE SHEET E-101

SIEMENS SUPPLIED CABLES				
FROM	VIA	TO	DESCRIPTION	REMARKS
ICS/IRS	10, PB, FD1	B	POWER CABLE: 300V.	MAXIMUM LENGTH 82'-0"
ICS/IRS	10, PB, FD1	B	CAT 5 CROSS COVER CABLE: 150V.	MAXIMUM LENGTH 82'-0"
ICS/IRS	10, PB, FD1	B	UNMARKED CABLE.	MAXIMUM LENGTH 82'-0"
B1	11	B2	PHS CABLE, POWER CABLE: 300V.	MAXIMUM LENGTH 20'-0"

FINISHED ROOM HEIGHT
 SYMBIA T, T2, T6 OR T16
 MINIMUM 8'-0"
 SYMBIA T, T2, T6 OR T16 WITH CEILING MOUNTED COMPONENT
 MINIMUM 8'-0"
 MAXIMUM 12'-0"
 OTHER THAN RADIATION ON LAMP
 CONSIDER THE WARNING LIGHT WILL BE PLACED ON TOP OF THE PATIENT BOOM. ANY OTHER CEILING MOUNTED COMPONENT MUST BE PLACED AS TO NOT COLLIDE WITH WARNING LIGHT.

SYM	DATE	DESCRIPTION
⚠	02/10/14	REVISED ELECTRICAL AND REMOVED SYMBIA T PROCESSING WORKPLACE.
⚠	01/14/14	R-101R(A) VERSION DATED 12/20/13 APPROVED BY THE CUSTOMER FOR FINALS.

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SIEMENS
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 22 BRAMHALL STREET, PORTLAND, ME 04102
 NEW SYMBIA SUITE - SYMBIA T

PROJECT #: **1303838**
 SHEET: **E-101**
 SHEET 5 OF 6
 DRAWN BY: M. COPLLEY
 DATE: 01/14/14

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 SCALE: AS NOTED REF: 406-347620

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 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.
 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.

ATTENTION:

SYMBIA T, T2, T6, T16
 REV 2