

ARCHITECTURAL NOTES

- 1) ALL PRELIMINARY EQUIPMENT LAYOUTS SUBMITTED BY SIEMENS MEDICAL SOLUTIONS, INC. (SMS HEREAFTER) ARE BASED ON THE RECOMMENDED SPACE NECESSARY FOR THE OPERATION AND SERVICEABILITY OF THE EQUIPMENT BEING PROPOSED. SMS WILL NOT SUBMIT AN EQUIPMENT LAYOUT THAT IS NOT IN THE BEST INTEREST OF BOTH THE CUSTOMER AND SMS. ALL EQUIPMENT LAYOUTS ARE BASED EITHER ON AN ACTUAL SITE LOCATION SURVEY OR ARCHITECTURAL DRAWINGS SUPPLIED TO SMS. SMS WILL NOT BE RESPONSIBLE FOR ANY ALTERATIONS THAT ENCROUGH WITHIN DESIGNATED SAFETY AND SERVICE CLEARANCE ZONES AS INDICATED ON DRAWINGS (IE. 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 SMS PROJECT MANAGER.
- 2) SMS IS NOT AN ARCHITECTURAL OR ENGINEERING FIRM. DRAWINGS SUPPLIED BY SMS 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.
- 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 SMS 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 TAKEN 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) SMS SHALL BE RESPONSIBLE FOR SMS EQUIPMENT INSTALLATION AND CALIBRATION, CONNECTION AND INSTALLATION OF SMS PROVIDED TABLES, AND CONNECTION OF CONTRACTOR PROVIDED WIRES TO SMS 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 JOB SUPERVISION TO BE PROVIDED BY SMS. 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 VERIFY WITH SMS PROJECT MANAGER FINAL INSTALLATION DRAWINGS THE LOCATIONS AND TRAVEL OF ALL ANGLARY EQUIPMENT TO BE CEILING OR WALL MOUNTED (IE: 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 SMS EQUIPMENT AND ANY ASSOCIATED SUPPORT APPARATUS.

ENVIRONMENTAL/POWER AUDIT

AS AN INDICATION OF OUR COMMITMENT TO QUALITY, SIEMENS MAY, AT NO COST TO YOUR FACILITY, CHECK THE OPERATING ENVIRONMENT AFTER SYSTEM TURNOVER TO DETERMINE IF THE REQUIREMENTS FOR TEMPERATURE, HUMIDITY, POWER, AND GROUNDING ARE MET AS PER SIEMENS' PUBLISHED SPECIFICATIONS. SIEMENS WILL GENERATE A WRITTEN REPORT DETAILING THE ENVIRONMENTAL AND ELECTRICAL CONDITION OF THE SITE AFTER TURNOVER AND WILL SHARE THE REPORT WITH YOU. IN THE EVENT WE IDENTIFY ANY ENVIRONMENTAL/POWER DEFICIENCIES AT THE SITE, YOUR FACILITY WILL BE REQUESTED TO CORRECT DEFICIENCIES WITHIN THIRTY (30) DAYS. SHOULD ANY CORRECTIVE ACTIONS BE NECESSARY, AND UPON REQUEST, SIEMENS WILL PROVIDE GUIDANCE IN AN EFFORT TO FACILITATE RESOLUTION. PLEASE BE ADVISED THAT AFTER 30 DAYS NOTICE ANY REPAIR OR MAINTENANCE SERVICES NECESSITATED BY SEVERE DEFICIENCIES WILL FALL OUTSIDE YOUR WARRANTY COVERAGE.

SITE READINESS GUIDELINES

- THE FOLLOWING GENERAL CONDITIONS ARE NECESSARY TO HAVE THE STATUS OF "READY SITE":
- 1) PROPER POWER AVAILABLE AT SIEMENS EQUIPMENT POWER CABINET LOCATION.
 - 2) AIR CONDITIONING/HUMIDIFICATION SYSTEMS COMPLETE, TESTED, AND FUNCTIONING PROPERLY ACCORDING TO SIEMENS SPECIFICATIONS.
 - 3) PROPER LIGHTING INSTALLED AND FUNCTIONING.
 - 4) PLUMBING COMPLETE EXCEPT FOR ANY FINAL CONNECTIONS TO SIEMENS EQUIPMENT. LINES MUST BE FLUSHED AND LEAKED TESTED.
 - 5) ALL CABLE TRAYS/DUCTS/CONDUITS CORRECTLY SIZED AND INSTALLED IN THE CORRECT LOCATIONS ACCORDING TO THE SIEMENS DRAWINGS.
 - 6) ALL REINFORCEMENT PLATES INSTALLED AS REQUIRED.
 - 7) ROOM FOR EQUIPMENT INSTALLATION AND IMMEDIATE VICINITY IS DUST-FREE AND IS TO REMAIN SO FOR THE DURATION OF THE INSTALLATION.
 - 8) A SECURE AREA, APPROXIMATELY 10'x10', IS AVAILABLE AT EQUIPMENT DELIVERY FOR PARTS AND INSTALLATION TOOLS.
 - 9) CUSTOMER SUPPLIED CAMERAS AND PROCESSORS INSTALLED.
 - 10) MODEM OUTLET OR ROUTER, VOICE AND DATA TELEPHONE LINES INSTALLED.
 - 11) WALLS TO BE PRIMED AND PAINTED, FLOORS TO BE TILED CEILINGS TO BE INSTALLED.
- IF THESE CONDITIONS ARE NOT MET, THE SIEMENS PROJECT MANAGER AND THE DESIGNATED SIEMENS INSTALLATION SUPERVISOR SHALL RESCHEDULE THE INSTALLATION START DATE. NOTE: ADDITIONAL COST MAY BE INCURRED BY THE CUSTOMER/CONTRACTOR WHEN THE SIEMENS SITE READINESS GUIDELINES ARE NOT MET, AND DELIVERY DATES NEED TO BE RESCHEDULED.

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.

RESOURCE LIST (SMS USE ONLY)

DESIGNATION	PG NUMBER	DATE
SYMBIA INTEVO EXCEL, INTEVO 2, INTEVO 6 AND INTEVO 16	NM02-001.891.11.05.02	10/14

EQUIPMENT LEGEND								
NO	DESCRIPTION	SMS SYM	WEIGHT (LBS)	BTU/HR TO AIR	DIMENSIONS (INCHES)			REMARKS
					W	D	H	
1	SYMBIA INTEVO 6 GANTRY W/COLLIMATORS	Ⓢ	7,413	24,574	93	84 1/2	90 1/2	6,826 BTU ON STANDBY. WORST CASE WEIGHT 7,963 LBS. WITH (2) HIGH ENERGY COLLIMATORS AT 275 LBS. EACH
2	FRONT PHS	Ⓢ	2,512	-	31 1/8	97 1/2	23 3/16	MAXIMUM HEIGHT 41"
3	SYMBIA INTEVO-ACC WITH AQC - PRODUCTIVITY PACKAGE	Ⓢ	684	-	31 1/8	97 1/2	23 3/16	WEIGHT CALCULATED WITH 1 SET LOW AND MEDIUM ENERGY COLLIMATORS.
4	UNDER THE FLOOR PHS CABLE STANDARD	Ⓢ	-	-	-	-	-	UNDER FLOOR
5	PHS EXTENDED PIVOT	Ⓢ	-	-	-	-	-	EXTENDED PIVOT - 45 DEGREES
6	REAR PHS WITH SNAC	Ⓢ	415.3	-	-	-	-	ON FLOOR
7	PATIENT BOOM SWING ARM	Ⓢ	-	-	-	-	-	-
8	LINE CONNECTION BOX	Ⓢ	227	1,365	29 1/2	11 3/4	32	ON FLOOR
9	UPS FOR SPECT	Ⓢ	120	1,024	10	28 3/8	17 7/8	ON FLOOR
10	TRANSFORMER REQUIRED WITH UPS FOR SPECT (SPS)	Ⓢ	-	-	-	-	-	CUSTOMER SUPPLIED PRIOR TO INSTALLATION. SEE POWER SCHEDULE.
11	TVSS SURGE PROTECTION UPS FOR SPECT	Ⓢ	11	-	8	6	10	ON TOP OF UPS FOR SPECT
12	COLLIMATOR CART (EMPTY) (2)	Ⓢ	400	-	47 3/8	32 5/8	47 1/2	WORST CASE 1330 LBS. WITH 1 SET HE AND 1 SET ME
13	IMAGE CONSTRUCTION SYSTEM FOR SYNGO MI (ACQUISITION) WORKPLACE	Ⓢ	66	2,389	8	22	18	OFF FLOOR.
14	IMAGE RECONSTRUCTION SYSTEM FOR SYNGO MI (ACQUISITION) WORKPLACE	Ⓢ	66	*	8	22	18	OFF FLOOR. *BTU'S INCL. WITH ICS
15	CONTROL AND KEYBOARD	Ⓢ	-	-	-	-	-	ON CUSTOMER'S COUNTER
16	18" MONITOR	Ⓢ	31	-	18 3/8	2 5/8	14 13/16	ON CUSTOMER'S COUNTER
17	SYNGO MI (ACQUISITION) WORKPLACE UPS FOR IMS STANDARD COMPONENT	Ⓢ	70	-	5	19	17 1/4	OFF FLOOR.
18	DEDICATED RECONSTRUCTION SYSTEM WORKPLACE - STANDARD INTEVO 6	Ⓢ	55	*	8	20 3/4	18	OFF FLOOR. *BTU'S INCL. WITH ICS
19	DEDICATED RECONSTRUCTION SYSTEM WORKPLACE MONITOR - STANDARD INTEVO 6	Ⓢ	31	-	18 3/8	2 5/8	14 13/16	ON CUSTOMER'S COUNTER
20	DEDICATED RECONSTRUCTION SYSTEM WORKPLACE KEYBOARD - STANDARD INTEVO 6	Ⓢ	-	-	-	-	-	ON CUSTOMER'S COUNTER
21	DVD	Ⓢ	-	-	-	-	-	ON CUSTOMER'S COUNTER
22	SYMBIA.NET WORKPLACE CPU	Ⓢ	51	1,400	8	21	17 1/2	OFF FLOOR
23	SYMBIA.NET WORKPLACE KEYBOARD AND MONITOR	Ⓢ	31	*	17 5/8	18 5/16	17	*BTU'S INCL. WITH SNW CPU

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
0.2mT (2 GAUSS)	SIEMENS CT PORTION OF SYMBIA SIEMENS CT SCANNERS
0.15mT (1.5 GAUSS)	COLOR MONITOR (FOR LIQUID CRYSTAL DISPLAYS ONLY)
0.1mT (1.0 GAUSS AC OR DC)	SIEMENS HAS ESTABLISHED THE UPPER LIMITS OF MAGNETIC FIELD EXPOSURE FOR THE SYMBIA DETECTORS

MAGNETIC FIELDS SHOULD BE MEASURED PRIOR TO DELIVERY.

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.

FINISHED ROOM HEIGHT

SYMBIA INTEVO EXCEL, INTEVO 2, INTEVO 6, INTEVO 16	MINIMUM 8'-0"
SYMBIA INTEVO EXCEL, INTEVO 2, INTEVO 6, INTEVO 16 WITH CEILING MOUNTED COMPONENT OTHER THAN RADIATION ON LAMP	MINIMUM 8'-2" MAXIMUM 12'-0"

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.

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.

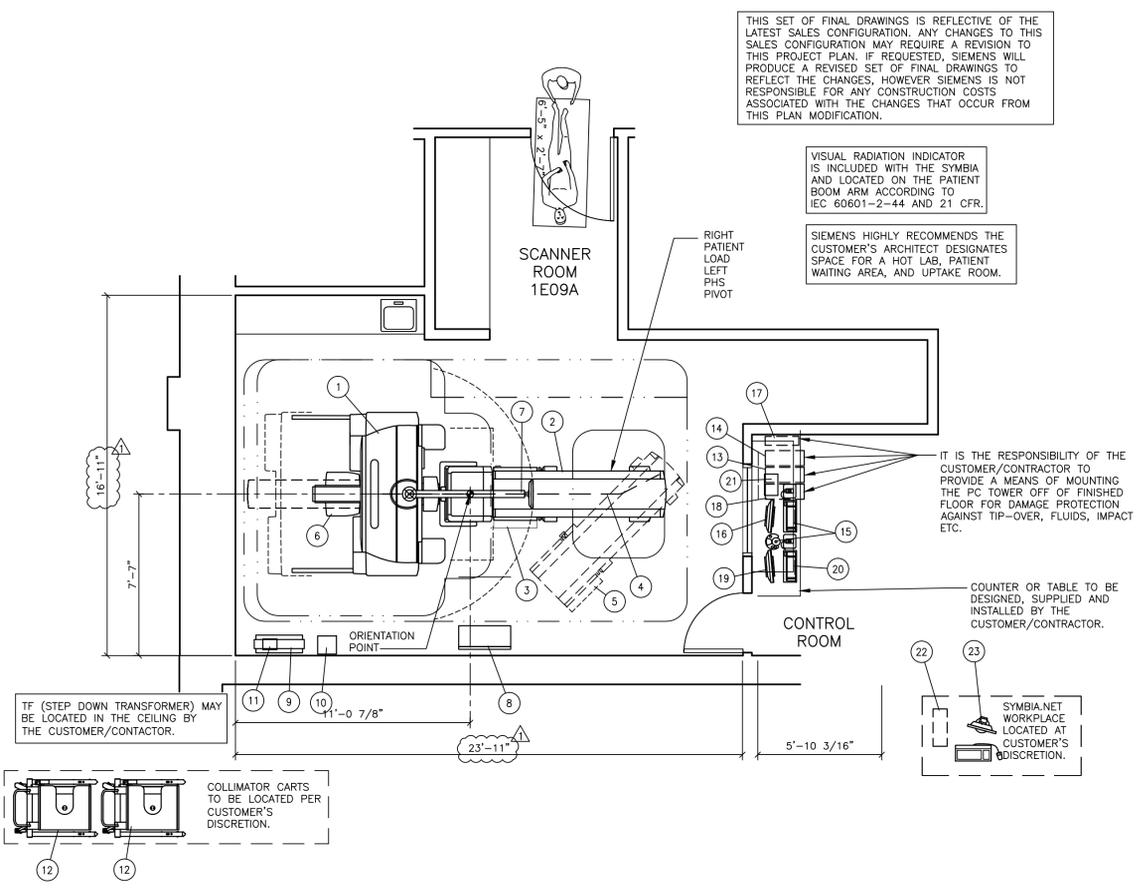
VISUAL RADIATION INDICATOR IS INCLUDED WITH THE SYMBIA AND LOCATED ON THE PATIENT BOOM ARM ACCORDING TO IEC 60601-2-44 AND 21 CFR.

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

IT IS THE RESPONSIBILITY OF THE CUSTOMER/CONTRACTOR TO PROVIDE A MEANS OF FINISHED FLOOR FOR DAMAGE PROTECTION AGAINST TIP-OVER, FLUIDS, IMPACT ETC.

COUNTER OR TABLE TO BE DESIGNED, SUPPLIED AND INSTALLED BY THE CUSTOMER/CONTRACTOR.

SYMBIA.NET WORKPLACE LOCATED AT CUSTOMER'S DISCRETION.



ARCHITECTURAL EQUIPMENT PLAN

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

ROOM MEASUREMENTS

ALL ROOM MEASUREMENTS AND ROOM DETAIL SPECIFICATIONS MUST BE VERIFIED ON SITE PRIOR TO BEGINNING ANY CONSTRUCTION WORK.

NOISE LEVEL

SYSTEM COMPONENT	DECIBEL LEVEL (AT 3'-3" DISTANCE)
SYMBIA INTEVO EXCEL, INTEVO 2, INTEVO 6 AND INTEVO 16 GANTRY	68
FRONT PHS (PATIENT TABLE)	60
UPS FOR IMS	<45

1) NOISE DEPENDS ON THE ROOM TEMPERATURE AND THE PROCESSOR LOAD.

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- 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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 ROOM 1E09 - SYMBIA INTEVO INTEVO 6

PROJECT #: **1403947** SHEET: **A-101**

SHEET 1 OF 7 DRAWN BY: M. YATZUS
 DATE: 06/27/15

ALL RIGHTS ARE RESERVED.
 SCALE: AS NOTED REF: 660-B20048

SYMBOLS:
 06/27/15 UPDATE BACKGROUND WALLS TO MATCH ARCHITECTS BACKGROUND DRAWING
 06/05/15 R-10183 VERSION DATED 01/16/15 APPROVED BY THE CUSTOMER FOR FINALS.

SYMBOLS:
 DATE DESCRIPTION

-ISSUE BLOCK-

TRANSPORT AND DELIVERY NOTES

NM SUB-SYSTEM ON SKID	4,118 LBS.
NM GANTRY WITH TRANSPORT AND BOOM	3,886 LBS.
CT SUB-SYSTEM	2,480 LBS.
FRONT PHS	2,745 LBS.
REAR PHS	506 LBS.

NORMAL TRANSPORT REQUIREMENTS:
DURING THE MOVEMENT OF THE GANTRY THROUGH CORRIDORS THE TRANSPORT CASTERS ARE SWIVELED OUT FOR STABILITY.
FRONT PHS REQUIRES THE SAME HALLWAY TRANSPORT ROUTE AS THE GANTRY AS SHOWN BELOW.
PLEASE CONSULT PLANNING GUIDE FOR ELEVATOR CLEARANCES FOR GANTRY AND FRONT PHS.

HALLWAY TRANSPORT FOR GANTRY:

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.

TRANSPORTING GANTRY FLOOR LOAD:
ACCESS FLOORS MUST BE LAID OUT TO SUPPORT A LOAD MINIMUM 1296 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.

HALLWAY TRANSPORT FOR FRONT PHS:

TRANSPORT DEVICES MOUNTED ON LEFT AND RIGHT SIDE OF GANTRY.

ENVIRONMENTAL REQUIREMENTS

TEMPERATURE (°F)

1) RECOMMENDED OPERATING CONDITIONS.
2) REQUIRED OPERATING CONDITIONS.

TEMPERATURE, HUMIDITY, DUST, AIR CONTAMINATION:
REFER TO THE CLIMATOGRAM ABOVE FOR THE PERMITTED CLIMATE RANGE.

THE MAXIMUM TEMPERATURE GRADIENT IS 8°F PER HOUR.

THE OPTIMAL ENVIRONMENT FOR THE SCANNER ROOM AND THE SYSTEM IS 65°F-86°F (± 8°F/HR.) WITH A RELATIVE HUMIDITY OF 20-80% NON-CONDENSING. THE OPTIMAL ENVIRONMENT FOR THE CONTROL ROOM 75°F (± 8°F/HR.) WITH A RELATIVE HUMIDITY OF 20-80%, NON-CONDENSING. TEMPERATURE RANGES FOR THE SCANNER ROOM AND CONTROL CANNOT BE GUARANTEED IN ALL SEASONS OF THE YEAR, AN APPROPRIATE AIR-CONDITIONING 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.

RESOURCE LIST (SMS USE ONLY)		
DESIGNATION	PG NUMBER	DATE
SYMBIA INTEVO EXCEL, INTEVO 2, INTEVO 6 AND INTEVO 16	NM02-001.891.11.05.02	10/14

SYMBIA INTEVO
REV 2

		VA SALT LAKE CITY 500 FOOTHILL DRIVE, SALT LAKE CITY, UT 84148 ROOM 1E09 - SYMBIA INTEVO INTEVO 6	
PROJECT MANAGER: DAVID LYMAN TELL: (801) 602-8711 EXT: VMAIL: FAX: EMAIL: david.lyman@siemens.com		PROJECT #: 1403947	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.		SHEET 2 OF 7 DRAWN BY: M. YATZUS	DATE: 06/27/15
-ISSUE BLOCK-		SCALE: AS NOTED	REF #: 660-B20048

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FLOOR REQUIREMENTS

- 1) THE MINIMUM ALLOWABLE CONCRETE THICKNESS FOR NONSEISMIC REGIONS OF THE SCANNER ROOM FLOOR IS 4".
- 2) CONDITIONS OF FLOORING:
 - VIBRATION FREE LOCATION AS FOUND IN A TYPICAL CLINICAL ENVIRONMENT.
 - INSTALLATION OF THE GANTRY AND PATIENT TABLE ON:
 - CONCRETE FLOORING CLASS C20/25 TO C50/60.
 - COMPOSITE FLOORING OR ACCESS FLOOR WITH SUITABLE ON SITE MOUNTING FRAME, SUB CONSTRUCTION, OR EQUIVALENT STRUCTURE.
- 3) WEIGHT CAPACITY OF FLOORING SHOULD BE TESTED BY A STRUCTURAL ENGINEER.
- 4) ANY FLOORING OTHER THAN LISTED ABOVE REQUIRES AN ON SITE FRICTION FREE SUB CONSTRUCTION MADE FROM STEEL IN THE AREAS OF SUPPORT. PLEASE CONSULT STRUCTURAL ENGINEER.
- 5) THE MINIMUM EXTRACTION FORCE FOR THE POINTS WHERE THE PATIENT TABLE IS ATTACHED IS 610 LBF. PER ANCHOR.
 - INSTALLATION ON A FLOATING FLOOR WITHOUT SUB-CONSTRUCTION IS PROHIBITED.
- 6) THE BASE FRAME FOOT PADS ARE MOUNTED TO THE FLOOR USING (4) 5/8" X 3 1/2" ANCHORS.
- 7) FLOOR LEVELNESS REFER TO FLOOR LEVELING AND FLATTENING DETAIL LOCATED ON THIS SHEET.
- 8) THE MINIMUM REQUIREMENTS FOR COMPRESSIVE STRENGTH FOR THE FLOOR COVERING BASED ON SYMBIA COLLIMATOR CART SHALL BE 375 PSI. THIS IS BASE ON WORSE CASE LOADING WITH 2-HIGH ENERGY AND 2-MEDIUM ENERGY COLLIMATORS PLACED ON THE COLLIMATOR CART.

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 AFFECT 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.

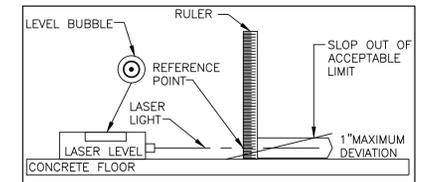
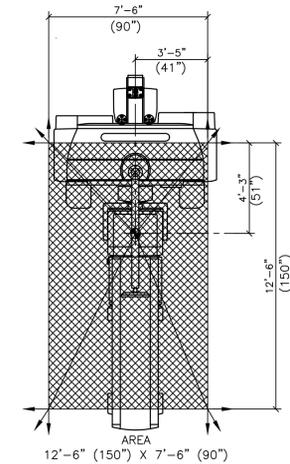
UPON COMPLETION OF THE INSTALLATION FLOOR AREA, VERIFY THE SURFACE FLATNESS, USING A STRAIGHT EDGE 4'-0" IN LENGTH OR LONGER.

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 ON THE LEFT.

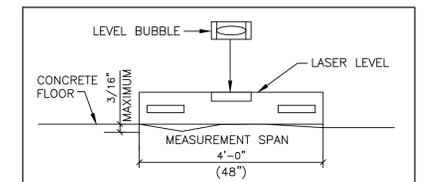
SLOPE - FLOOR SLOPE SHOULD BE WITHIN $\pm 1"$ OVER 12'-6" (150")

- 1) PLACE LASER LEVEL ON FLOOR.
- 2) MAKE SURE THAT THE LASER LEVELING DEVICE IS ABSOLUTELY LEVEL.
- 3) TURN ON LASER.
- 4) USE A RULE TO MEASURE THE HEIGHT OF THE LASER LIGHT FROM THE FLOOR NEXT TO THE LASER LEVEL. THIS IS REFERENCE POINT ON THE RULER FOR ALL OTHER MEASUREMENTS.
- 5) KEEP THE LASER ON AND USE A RULE TO MEASURE THE HEIGHT OF THE LASER LIGHT BEAM AT VARIOUS POINTS 12'-6" (150") FROM THE LASER. THE MEASUREMENT FROM THE FLOOR SHOULD BE WITHIN 1" OF THE ORIGINAL LASER LIGHT REFERENCE POINT. REPEAT AT VARIOUS POINTS AND DIRECTIONS REPRESENTED AS HATCH AREA IN THE DIAGRAM TO THE LEFT.



FLATNESS - FLOOR SURFACE SHOULD BE SMOOTH AND HAVE NO MORE THEN 3/16" DEVIATION IN ANY 4'-0" (48") SEGMENT IN ENTIRE THE SCANNER ROOM AREA.

- 1) VERIFY SURFACE FLATNESS FOR THE ENTIRE SCANNER ROOM AREA, USE STRAIGHT EDGE OR BUBBLE LEVEL THAT IS 4'-0" (48") LONG.



IT IS THE CUSTOMER/CONTRACTOR'S RESPONSIBILITY IF ANY MEASUREMENT OUT OF ACCEPTABLE LIMITS ARE AN INDICATION THAT THE FLOOR NEEDS TO BE LEVELED WITH SOME SORT OF LEVELING COMPOUND.

WHERE THE UNACCEPTABLE DEVIATION EXIST, THE WHOLE (MINIMUM SYSTEM AREA) SHOULD BE RE-SUFACED.

LEVELING SPECIFICATIONS

FLOOR LEVELING AREA	12'-6" (150") X 7'-6" (90").
SLOPE	WITHIN $\pm 1"$ OVER 12'-6" (150").
FLATNESS	FLOOR SURFACE SHOULD BE SMOOTH AND HAVE NO MORE THAN 3/16" DEVIATION IN ANY 4'-0" (48") THROUGHOUT THE SCANNER ROOM OR SYSTEM INSTALLATION 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.

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.

- 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.

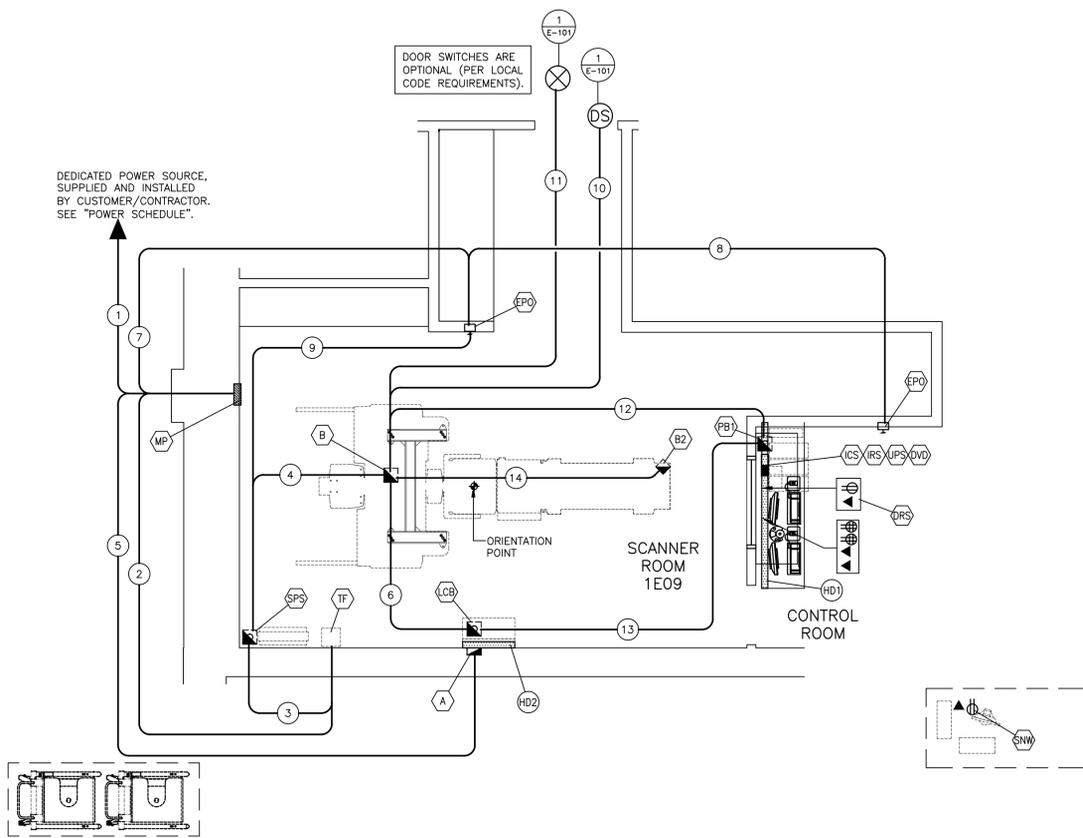
- THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

SYMBIA INTEVO
REV. 2

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		VA SALT LAKE CITY	
		500 FOOTHILL DRIVE, SALT LAKE CITY, UT 84148 ROOM 1E09 - SYMBIA INTEVO INTEVO 6	
06/27/15	UPDATE BACKGROUND WALLS TO MATCH ARCHITECTS BACKGROUND DRAWING	PROJECT #:	SHEET:
06/05/15	R-101R3 VERSION DATED 01/16/15 APPROVED BY THE CUSTOMER FOR FINALS.	1403947	S-501
SYM	DATE	DESCRIPTION	DATE
-ISSUE BLOCK-		SCALE: AS NOTED	DATE: 06/27/15
		REF: 660-B20048	DRAWN BY: M. YATZUS

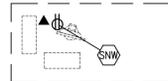
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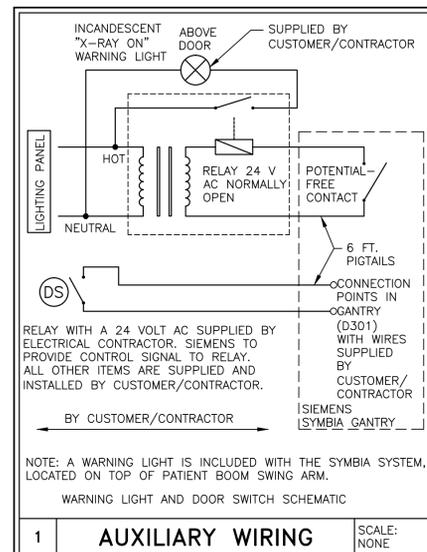
DEDICATED POWER SOURCE, SUPPLIED AND INSTALLED BY CUSTOMER/CONTRACTOR. SEE "POWER SCHEDULE".

DOOR SWITCHES ARE OPTIONAL (PER LOCAL CODE REQUIREMENTS).



ELECTRICAL RACEWAY PLAN

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



1 AUXILIARY WIRING SCALE: NONE

FROM	VIA	TO	DESCRIPTION	REMARKS
ICS/IRS	12,PB1,HD1	B	POWER CABLE: 300V.	MAXIMUM LENGTH 82'-0"
ICS/IRS	12,PB1,HD1	B	CAT 5 CROSS OVER CABLE: 150V.	MAXIMUM LENGTH 82'-0"
ICS/IRS	12,PB1,HD1	B	UNMARKED CABLE.	MAXIMUM LENGTH 82'-0"
CS/IRS/DVD	12,PB1,HD1	B	DVD CABLE, DATA CABLE, FIBER CABLE: 30V.	MAXIMUM LENGTH 82'-0"
LCB	13,PB1,HD1	UPS	POWER CABLE: 300V.	MAXIMUM LENGTH 82'-0"
B	14	B2	PHS CABLE, POWER CABLE: 300V.	MAXIMUM LENGTH 20'-0"

SIEMENS SUPPLIED CABLES

SYM	SIZE	DESCRIPTION	REMARKS
(A)	AS REQUIRED	PULL BOX MOUNTED FLUSH WITH FINISHED WALL AT FLOOR LINE IN SHOWN LOCATION.	ANCILLARY WIRING
(B)	8" x 8"	PULL BOX MOUNTED BELOW FLOOR SLAB WITH 5" SLEEVE RUNNING THROUGH FLOOR SLAB ENDING FLUSH WITH FINISHED FLOOR IN SHOWN LOCATION.	GANTRY CABLE ACCESS
(B2)	6" x 6"	PULL BOX MOUNTED BELOW FLOOR SLAB WITH 3" SLEEVE RUNNING THROUGH FLOOR SLAB ENDING FLUSH WITH FINISHED FLOOR IN SHOWN LOCATION. SIEMENS SUPPLIED COVER.	PHS CABLE ACCESS UNDER THE PHS
(E)	---	ETHERNET CONNECTION TO HOSPITAL NETWORK, EXACT LOCATION TO BE COORDINATED WITH SIEMENS PROJECT MANAGER.	DEDICATED RECONSTRUCTION SYSTEM WORKPLACE
(E2)	---	FIXED POINT DESIGNATION, SAME/OPENING AS ICS.	---
(E3)	---	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
(E4)	---	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
(E5)	12" x 4"	OPENING IN RACEWAY IN SHOWN LOCATION.	IMAGE CONSTRUCTION SYS
(E6)	---	FIXED POINT DESIGNATION OPENING AS ICS.	IMAGE RECONSTRUCTION SYS
(E7)	AS REQUIRED	PULL BOX MOUNTED BELOW FLOOR SLAB WITH 6" SLEEVE RUNNING THROUGH FLOOR SLAB ENDING FLUSH WITH FINISHED FLOOR IN SHOWN LOCATION.	LINE CONNECTION BOX
(E8)	---	MAIN PANEL WITH MAIN BREAKER FLUSH OR SURFACE MOUNTED. REFER TO POWER SCHEDULE.	SEE POWER SCHEDULE
(E9)	AS REQUIRED	PULL BOX MOUNTED BELOW FINISHED FLOOR WITH REMOVABLE BOTTOM COVER. FOR EACH CONDUIT CONNECTION, PROVIDE A FLOOR SLEEVE OF THE SAME SIZE CONNECTING BOX TO RACEWAY "HD1".	---
(E10)	---	ETHERNET CONNECTION TO HOSPITAL NETWORK, EXACT LOCATION TO BE COORDINATED WITH SIEMENS PROJECT MANAGER.	SYMBIA.NET WORKPLACE
(E11)	AS REQUIRED	PULL BOX MOUNTED BELOW FLOOR SLAB WITH 3" SLEEVE RUNNING THROUGH FLOOR SLAB ENDING FLUSH WITH FINISHED FLOOR IN SHOWN LOCATION.	UPS FOR SPECT
(E12)	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
(E13)	---	FIXED POINT DESIGNATION OPENING AS ICS.	---
(E14)	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 FOR EXCESS CABLE STORAGE.	RACEWAY
(E15)	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 FOR EXCESS CABLE STORAGE.	RACEWAY
(1)	AS REQUIRED	CONDUIT FROM POWER SOURCE TO "MP" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
(2)	AS REQUIRED	CONDUIT FROM "MP" TO "TF" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
(3)	AS REQUIRED	CONDUIT FROM "TF" TO "SPS" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
(4)	1/2"	CONDUIT FROM "SPS" TO "B" SIZED BY ELECTRICAL ENGINEER OF RECORD.	MAXIMUM CONDUIT LENGTH 82'-0"
(5)	1 1/4"	CONDUIT FROM "MP" TO "A" (LCB) SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
(6)	1 1/4"	CONDUIT FROM "LCB" TO "B" SIZED BY ELECTRICAL ENGINEER OF RECORD.	MAXIMUM CONDUIT LENGTH 74'-0"
(7)	AS REQUIRED	CONDUIT FROM "MP" TO "EPO" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
(8)	AS REQUIRED	CONDUIT FROM "EPO" TO "EPO" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
(9)	AS REQUIRED	CONDUIT FROM "EPO" TO "SPS" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
(10)	1/2"	CONDUIT FROM "B" TO "DOOR SAFETY SWITCH" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE SHEET E-101
(11)	1/2"	CONDUIT FROM "B" TO "WARNING LIGHT" (X-RAY ON) SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE SHEET E-101
(12)	(2) 3"	CONDUIT "B" TO "PB1" (ICS).	MAXIMUM CONDUIT LENGTH 68'-0"
(13)	1 1/2"	CONDUIT FROM "LCB" TO "PB1" (UPS).	MAXIMUM CONDUIT LENGTH 68'-0"
(14)	3"	CONDUIT FROM "B" TO "B2".	MAXIMUM CONDUIT LENGTH 14'-0"

ELECTRICAL LEGEND

ELECTRICAL NOTES

- 1) COMPLIANCE: ELECTRICAL WORK SHALL BE IN COMPLIANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NFPA-70), O.S.H.A. REGULATIONS, AS WELL AS APPLICABLE REGULATIONS OF CITY, COUNTY, STATE AND FEDERAL AGENCIES. PROVIDE MATERIALS AND EQUIPMENT THAT COMPLY TO ANSI, IEEE AND NEMA STANDARDS. WHERE APPLICABLE, PROVIDE ONLY MATERIALS AND PRODUCTS THAT ARE U.L. LISTED AND LABELED. CUSTOMER'S/CONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF NECA STANDARD OF INSTALLATION.
- 2) QUALITY ASSURANCE: THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD TO INSURE THAT THE NEW WORK WILL FIT TO 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 SMS PROGRAM MANAGER. ALL DIMENSIONS ARE FROM FINISHED SURFACES. CONDUIT AND PULL BOXES TO BE INSTALLED BY THE CUSTOMER/CONTRACTOR WITH LOCATIONS BEING FIELD VERIFIED BY SMS PROJECT MANAGER.
- 3) POWER SUPPLY SOURCE: POWER SUPPLIES FOR SIEMENS MEDICAL SOLUTIONS EQUIPMENT SHALL BE DEDICATED SERVICES KEPT ENTIRELY FREE AND INDEPENDENT OF ALL OTHER BUILDING WIRING AND EQUIPMENT, SUCH AS: ELEVATORS, GENERATORS, PUMPS, HVAC SYSTEMS, ETC. THE CONTRACTOR SHALL COORDINATE THIS WORK WITH THE CUSTOMER/UTILITY COMPANY FIELD REPRESENTATIVE.
- 4) WORK FURNISHED BY CUSTOMER/CONTRACTOR: WORK NOT PROVIDED BY SIEMENS MEDICAL SOLUTIONS BUT SHOWN ON DRAWINGS TO BE FURNISHED AND INSTALLED BY CUSTOMER/CONTRACTOR INCLUDES THE FOLLOWING BUT IS NOT LIMITED TO UNLESS NOTED OTHERWISE: ELECTRICAL RACEWAYS AND DUCTS, WIRING TROUGH, PULL BOXES, CONDUITS, CIRCUIT BREAKERS, EMERGENCY OFF BUTTONS, DOOR SWITCHES, WARNING LIGHTS, WIRING, WIRING DEVICES, CONNECTORS, LIGHTING EQUIPMENT AND GROUNDING.
- 5) RACEWAY AND CONDUIT NOTES: RACEWAY SHALL BE ELECTRIC METALLIC TUBING (EMT) FOR RIGID CONDUIT WORK, OR WHERE SHORT OFF-SET CONNECTIONS ARE REQUIRED LIGHTDUTY FLEXIBLE METAL CONDUIT SHALL BE USED. FIELD BENDS SHALL NOT BE LESS THAN AS SHOWN IN TABLE 346-10 OF THE NATIONAL ELECTRICAL CODE. PROVIDE A JETLINE "SUPER TRUE TAPE" OR EQUIVALENT CONDUIT MEASURING TAPE FISH LINE IN ALL RACEWAYS AND CONDUITS. CONDUIT BODIES SHALL NOT BE USED, WHERE A CONDUIT ENTERS A BOX, FITTING, OR OTHER ENCLOSURE AN INSULATED THROUGH CONNECTOR SHALL BE PROVIDED TO PROTECT THE WIRE FROM ABRASION. CONNECTORS SHALL BE DOUBLE SET SCREW TYPE, STEEL CONCRETE TIGHT. 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 MEDICAL SYSTEMS CABLES DO NOT EXCEED THE SPECIFIED MAXIMUM DISTANCES AS SHOWN ON THE ELECTRICAL DETAILS. PROVIDE ENCLOSED METAL RACEWAY SYSTEM (WIRE DUCT) WHERE SHOWN ON DRAWINGS WITH DIVIDERS TO SEPARATE THE DUCT (FOR POWER AND SIEMENS MEDICAL SOLUTIONS CABLES). DIVIDERS AND CROSSOVER PIECES TO BE PROVIDED AS NECESSARY. FOR UL CERTIFIED SYSTEMS, THE CABLE TO CABLE AS WELL AS THE CIRCUIT TO CIRCUIT SEPARATION REQUIREMENT WAS EVALUATED DURING THE UL SYSTEM INVESTIGATION OF THIS EQUIPMENT. ADDITIONAL SEPARATION OF THE SYSTEM CABLE ASSEMBLIES INTO SEPARATE OR PARTITIONED RACEWAYS, UNLESS OTHERWISE NOTED, IS NOT NECESSARY TO INSURE SEPARATION OF CIRCUITS, AS THEY CAN BE IN THE SAME RACEWAY. PROVIDE WIRE DUCT/RACEWAY WITH ACCESSIBLE REMOVABLE COVERS. LOCATIONS OF OPENINGS TO BE CUT IN FIELD ARE TO 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. IN-TRENCH DUCT AND FLUSH FLOOR BOXES SHALL BE PROVIDED WITH FULLY GASKETED REMOVABLE COVERS.
- 6) WIRING: WIRING SHALL BE INSTALLED IN METAL RACEWAY, 600 VOLT CLASS, STRANDED TYPE THHN-THWN, SINGLE CONDUCTOR ANNEALED COPPER FOR A MAXIMUM OPERATING TEMPERATURE OF 75° C (165° F), SIZED AS INDICATED. THE CUSTOMER/CONTRACTOR SHALL LEAVE MINIMUM 10 FT. WIRE TAILS AT ALL OUTLET POINTS WITH WIRE IDENTIFICATION TAGGED AT BOTH ENDS FOR FINAL CONNECTION BY SIEMENS MEDICAL SOLUTIONS.
- 7) IN ADDITION TO THE CIRCUIT BREAKER LOAD CURRENT RATING, CONSIDERATION MUST ALSO BE GIVEN TO SELECTING CIRCUIT BREAKERS THAT HAVE A HIGH ENOUGH SHORT CIRCUIT CURRENT WITHSTAND RATING TO SAFELY COORDINATE WITH THE POWER SYSTEM AVAILABLE SHORT CIRCUIT CURRENT. GENERALLY, WHEN THE 480 VOLT, 3 PHASE, X-RAY EQUIPMENT IS SERVED FROM A POWER SUPPLY SYSTEM THAT IS PROVIDED WITH A 500 KVA OR SMALLER TRANSFORMER, A STANDARD 14,000 RMS AMPERE WITHSTAND RATED CIRCUIT BREAKER WILL BE ADEQUATE. HOWEVER, IF THE POWER SUPPLY SYSTEM TRANSFORMER IS LARGER THAN 500 KVA, THEN THE CIRCUIT BREAKERS HAVING A SHORT CIRCUIT WITHSTAND RATING GREATER THAN 14,000 RMS AMPERES MAY BE REQUIRED.

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	SPS	POWER CABLE FOR SPECT PORTION OF SYMBIA. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
SPS	4	B	POWER CABLE FOR SPECT PORTION OF SYMBIA. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
MP	5A	LCB	POWER CABLE FOR CT PORTION OF SYMBIA. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
LCB	6	B	POWER CABLE FOR CT PORTION OF SYMBIA. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
MP	7	EPO	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
EPO	8	EPO	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
EPO	9	SPS	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
B	10	DOOR SAFETY SWITCH	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE SHEET E-101
B	11	WARNING LIGHT	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE SHEET E-101

FINISHED ROOM HEIGHT

SYMBIA INTEVO EXCEL, INTEVO 2, INTEVO 6, INTEVO 16	MINIMUM 8'-0"
SYMBIA INTEVO EXCEL, INTEVO 2, INTEVO 6, INTEVO 16 WITH CEILING MOUNTED COMPONENT OTHER THAN RADIATION ON LAMP	MINIMUM 8'-2" MAXIMUM 12'-0"

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.

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- 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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500 FOOTHILL DRIVE, SALT LAKE CITY, UT 84148		ROOM 1E09 - SYMBIA INTEVO INTEVO 6	
PROJECT #: 1403947		SHEET: E-101	
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ALL RIGHTS ARE RESERVED.		DRAWN BY: M. YATZUS	
SCALE: AS NOTED		REF: 666-B20048	

SYM	DATE	DESCRIPTION
△	06/27/15	UPDATE BACKGROUND WALLS TO MATCH ARCHITECTS BACKGROUND DRAWING
△	06/05/15	R-101R3 VERSION DATED 01/16/15 APPROVED BY THE CUSTOMER FOR FINALS.

-ISSUE BLOCK-

