

ELECTRICAL RACEWAY PLAN

SYMBOLS					
	ALL MAY NOT APPLY				
	CAUTION OR WARNING				
EZZI	MAIN PANEL OR ENCLOSURE BY CUSTOMER/CONTRACTOR				
	OPENING IN RACEWAY OR TRENCHDUCT				
2	PULLBOX IN (FLOOR/WALL/CEILING)				
	OPENING IN ACCESS FLOORING				
\otimes	WARNING LIGHT (X-RAY ON)				
(DS)	DOOR SAFETY SWITCH				
Н	(EPO) EMERGENCY POWER OFF BUTTON				
	TRENCHDUCT				
	CEILING DUCT				
	UNDER FLOOR DUCT				
M	VERTICAL DUCT				
>	ETHERNET CONNECTION TO CUSTOMER'S INFORMATION SYSTEMS NETWORK (VERIFY WITH SMS PROGRAM MANAGER).				
\bigcirc	110 VOLT, 20 AMP, HOSPITAL GRADE DUPLEX OUTLET UNLESS OTHERWISE STATED.				
≥ ⊕	ETHERNET CONNECTION TO CUSTOMER'S INFORMATION SYSTEMS NETWORK (VERIFY WITH SMS PROGRAM MANAGER). 110 VOLT, 20 AMP, HOSPITAL GRADE DUPLEX OUTLET				

POWER REQUIREMENTS

POLYDOROS-M / POLYDOROS A100 GENERATOR (PU1): 480 VOLTS, 3-PHASE, 160 KVA, 100 AMPS, 60 Hz SYSTEM CONTROL CABINET (SC): 480 VOLTS, 3-PHASE, 8.5 KVA, 50 AMPS, 60 Hz.

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 SYSTEM CABINET "SC1" LIGHTING POWER FROM WALL SWITCH 100-277 VAC NEUTRAL
ROOM LIGHTS ROOM LIGHTS HOSPITAL POWER 100-277 VAC
WARNING LIGHT POWER 100-277 VAC WARNING LIGHT CONTROL RELAY WARNING NEUTRAL
"X-RAY ON" WARNING LIGHT
NOTES: 1. ALL ITEMS PROVIDED BY CUSTOMER ELECTRICAL CONTRACTOR EXCEPT CONTACTS INSIDE SIEMENS "SC1" CABINET (ITEMS INSIDE DOTTED LINES).
2. ALL WIRING THAT CONNECTS TO SIEMENS "SC1" CABINET MUST BE 14-18 AWG STRANDED WIRE.
3. ONLY 3 WIRES LABELED "24 VAC", "ROOM LIGHTS" AND "X-RAY ON" SHOULD BE SENT TO SIEMENS "SC1" CABINET.
4. 24 VAC RELAYS ARE TO BE SELECTED BY ELECTRICAL CONTRACTOR. TO HANDLE THE VOLTAGE AND AMPERAGE OF LIGHTING CURCUIT.

LINE VOLTAGE VARIATION AT GENERATOR PEAK OUTPUT OF 160 KVA: PHASE BALANCE: FREQUENCY VARIATION: VOLTAGE SURGES: 10% MAX. ABOVE CONNECTED LI VOLTAGE *AT 20 MILLISECONDS MAXIMUM DURATION.		1001/2777 0 718/02 1 11, 00 112.
X—RAY GENERATOR NAMEPLATE MOMENTARY RATING: (RADIOGRAPHIC EXPOSURE) X—RAY GENERATOR NAMEPLATE LONG—TIME RATING: (FLUOROSCOPY) INCOMING LINE IMPEDANCE (mΩ) MINIMUM CIRCUIT BREAKER SIZE: (BASED ON N.E.G. 517—73) POWER QUALITY PARAMETERS MAXIMUM LINE VOLTAGE VARIATION ±10% OF SYSTEM VOLTAGE MAXIMUM LINE VOLTAGE VARIATION UNIC VARIATION ±10% OF SYSTEM VOLTAGE MAXIMUM LINE VOLTAGE VARIATION UNIC VARIATION ±10% OF SYSTEM VOLTAGE MAXIMUM LINE VOLTAGE MAXIMUM LINE VOLTAGE MAXIMUM DIRATION. VOLTAGE SURGES: 10% MAX. BETWEEN ANY 2 PHASE PREQUENCY VARIATION: ±1 HZ. OF 60 HZ 10% MAX. ABOVE CONNECTED LINE VOLTAGE *AT 20 MILLISECONDS MAXIMUM DURATION. VOLTAGE *AT 20 MILLISECONDS MAXIMUM DURATION. VOLTAGE *AT 5 MILLISECONDS MAXIMUM DURATION. NEUTRAL TO GROUND: ±0.5 VOLTS MAX. POTENTIAL SYSTEM GROUNDING IMPEDANCE: 1. INCOMING POWER SUPPLIES FOR SIEMENS EQUIPMENT SHOULD BED DEDICATED (BACK TO SOURCE), ISOLATED AND INSULATED FROM ANY OTHER EQUIPMENT SUCH AS ELEVATORS, GENERATORS, HVAC SYSTEMS, ETC. 2. SIEMENS MEDICAL SOLUTIONS, INC. RECOMMENDS THAT THE INCOMING POWER LINES BE ANALYZED WITH RESPECT TO TRANSIENT SURGES AND IMPULSES, SAGS AND OVERVOLTAGES. * CONNECTED LINE VOLTAGE IS THE ACTUAL VOLTAGE MEASURED IN THE FIELD AFTER THE POWER TRANSFORMER IS CONNECTED IN THE FIELD AFTER THE POWER TRANSFORMER IS CONNECTED IN THE FIELD AFTER THE POWER TRANSFORMER IS CONNECTED IN THE FIELD AFTER THE POWER TRANSFORMER IS CONNECTED IN THE FIELD AFTER THE POWER TRANSFORMER IS CONNECTED IN THE FIELD AFTER THE POWER TRANSFORMER IS CONNECTED IN THE FIELD AFTER THE POWER TRANSFORMER IS CONNECTED IN THE FIELD AFTER THE POWER TRANSFORMER IS CONNECTED IN THE	MINIMUM POWER SUPPLY:	225 KVA DISTRIBUTION XFMR
LONG—TIME RATING: (FLUOROSCOPY) INCOMING LINE IMPEDANCE (mΩ) MINIMUM CIRCUIT BREAKER SIZE: (BASED ON N.E.C. 517–73) POWER QUALITY PARAMETERS MAXIMUM LINE VOLTAGE VARIATION ±10% OF SYSTEM VOLTAGE MAXIMUM ALLOWABLE MOMENTARY LINE VOLTAGE VARIATION AT GENERATOR PEAK OUTPUT OF 160 KVA: PHASE BALANCE: PHASE BALANCE: VOLTAGE SURGES: VOLTAGE SURGES: VOLTAGE SAGS: VOLTAGE SAGS: LINE TRANSIENTS (SPIKES): NEUTRAL TO GROUND: NEUTRAL TO GROUND SURGES: LINE TRANSIENTS (SPIKES): NEUTRAL TO GROUND SURGES: NEUTRAL TO GROUND SURGES: LINE TRANSIENTS (SPIKES): NEUTRAL TO GROUND SURGES: NEUTRAL TO GROUND SURGES: LINE TRANSIENTS (SPIKES): SO ABOVE CONNECTED LINE VOLTAGE *AT 20 MILLISECONDS MAXIMUM DURATION. NEUTRAL TO GROUND SURGES: LINE TRANSIENTS (SPIKES): SO ABOVE CONNECTED LINE VOLTAGE *AT 5 MILLISECONDS MAXIMUM DURATION. NEUTRAL TO GROUND SURGES: ±10 VOLTS MAX. POTENTIAL SYSTEM GROUNDING IMPEDANCE: 0.25 OHMS MAX. POWER SUPPLY NOTES: 1. INCOMING POWER SUPPLIES FOR SIEMENS EQUIPMENT SHOULD BE DEDICATED (BACK TO SOURCE), ISOLATED AND INSULATED FROM ANY OTHER EQUIPMENT SUCH AS ELEVATORS, GENERATORS, HVAC SYSTEMS, ETC. 2. SIEMENS MEDICAL SOLUTIONS, INC. RECOMMENDS THAT THE INCOMING POWER LINES BE ANALYZED WITH RESPECT TO TRANSIENT SURGES AND IMPULSES, SAGS AND OVERVOLTAGES. * CONNECTED LINE VOLTAGE IS THE ACTUAL VOLTAGE MEASURED IN THE FIELD AFTER THE POWER TRANSFORMER IS CONNECTED IN THE FIELD AFTER THE POWER TRANSFORMER IS CONNECTED IN THE FIELD AFTER THE POWER TRANSFORMER IS CONNECTED IN THE FIELD AFTER THE POWER TRANSFORMER IS CONNECTED IN THE FIELD AFTER THE POWER TRANSFORMER IS CONNECTED IN THE FIELD AFTER THE POWER TRANSFORMER IS CONNECTED IN THE FIELD AFTER THE POWER TRANSFORMER IS CONNECTED IN THE FIELD AFTER THE POWER TRANSFORMER IS CONNECTED IN THE FIELD AFTER THE POWER TRANSFORMER IS CONNECTED IN THE VOLTAGE USED BY SIEMENS TO	MOMENTARY RATING:	160 KVA, 194 AMPS, MAXIMUM RMS (IN-RUSH) CURRENT
MINIMUM CIRCUIT BREAKER SIZE: (BASED ON N.E.C. 517–73) POWER QUALITY PARAMETERS MAXIMUM LINE VOLTAGE VARIATION ±10% OF SYSTEM VOLTAGE MAXIMUM ALLOWABLE MOMENTARY LINE VOLTAGE VARIATION AT GENERATOR PEAK OUTPUT OF 160 KVA: PHASE BALANCE: PHASE BALANCE: VOLTAGE SURGES: VOLTAGE SURGES: VOLTAGE SAGS: VOLTAGE SAGS: VOLTAGE SAGS: VOLTAGE SAGS: VOLTAGE SAGS: LINE TRANSIENTS (SPIKES): SO% ABOVE CONNECTED LINE VOLTAGE *AT 20 MILLISECONDS MAXIMUM DURATION. LINE TRANSIENTS (SPIKES): SO% ABOVE CONNECTED LINE VOLTAGE *AT 20 MILLISECONDS MAXIMUM DURATION. LINE TRANSIENTS (SPIKES): SO% ABOVE CONNECTED LINE VOLTAGE *AT 5 MILLISECONDS MAXIMUM DURATION. NEUTRAL TO GROUND: NEUTRAL TO GROUND SURGES: 1. INCOMING POWER SUPPLIES FOR SIEMENS EQUIPMENT SHOULD BE DEDICATED (BACK TO SOURCE), ISOLATED AND INSULATED FROM ANY OTHER EQUIPMENT SUCH AS ELEVATORS, GENERATORS, HVAC SYSTEMS, ETC. 2. SIEMENS MEDICAL SOLUTIONS, INC. RECOMMENDS THAT THE INCOMING POWER LINES BE ANALYZED WITH RESPECT TO TRANSIENT SURGES AND IMPULSES, SAGS AND OVERVOLTAGES. * CONNECTED LINE VOLTAGE IS THE ACTUAL VOLTAGE MEASURED IN THE FIELD AFTER THE POWER TRANSFORMER IS CONNECTED TO ITS LIVE LOAD AND IS THE VOLTAGE USED BY SIEMENS TO	LONG-TIME RATING:	8 KVA, 25 AMPS, FULL LOAD CURRENT
POWER QUALITY PARAMETERS MAXIMUM LINE VOLTAGE VARIATION ±10% OF SYSTEM VOLTAGE MAXIMUM ALLOWABLE MOMENTARY LINE VOLTAGE VARIATION AT GENERATOR PEAK OUTPUT OF 160 KVA: PHASE BALANCE: 2% MAX. BETWEEN ANY 2 PHASE FREQUENCY VARIATION: ± 1 HZ. OF 60 HZ VOLTAGE SURGES: 10% MAX. ABOVE CONNECTED LINE VOLTAGE *AT 20 MILLISECONDS MAXIMUM DURATION. VOLTAGE SAGS: 10% MAX. BELOW CONNECTED LIVOLTAGE *AT 20 MILLISECONDS MAXIMUM DURATION. LINE TRANSIENTS (SPIKES): 50% ABOVE CONNECTED LINE VOLTAGE *AT 5 MILLISECONDS MAXIMUM DURATION. NEUTRAL TO GROUND: ±0.5 VOLTS MAX. POTENTIAL NEUTRAL TO GROUND SURGES: ±10 VOLTS MAX. POTENTIAL SYSTEM GROUNDING IMPEDANCE: 0.25 OHMS MAX. POWER SUPPLY NOTES: 1. INCOMING POWER SUPPLIES FOR SIEMENS EQUIPMENT SHOULD BE DEDICATED (BACK TO SOURCE), ISOLATED AND INSULATED FROM ANY OTHER EQUIPMENT SUCH AS ELEVATORS, GENERATORS, HVAC SYSTEMS, ETC. 2. SIEMENS MEDICAL SOLUTIONS, INC. RECOMMENDS THAT THE INCOMING POWER LINES BE ANALYZED WITH RESPECT TO TRANSIENT SURGES AND IMPULSES, SAGS AND OVERVOLTAGES. * CONNECTED LINE VOLTAGE IS THE ACTUAL VOLTAGE MEASURED IN THE FIELD AFTER THE POWER TRANSFORMER IS CONNECTED TO ITS LIVE LOAD AND IS THE VOLTAGE USED BY SIEMENS TO		≤ 160
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MAXIMUM ALLOWABLE MOMENTARY LINE VOLTAGE VARIATION AT GENERATOR PEAK OUTPUT OF 160 KVA: PHASE BALANCE: PHASE BALANCE: PREQUENCY VARIATION: VOLTAGE SURGES: VOLTAGE SURGES: VOLTAGE SAGS: LINE TRANSIENTS (SPIKES): LINE TRANSIENTS (SPIKES): NEUTRAL TO GROUND: NEUTRAL TO GROUND SURGES: NEUTRAL TO GROUND SURGES: NEUTRAL TO GROUND SURGES: LINE TRANSIENTS (SPIKES): NEUTRAL TO GROUND SURGES: LINE TRANSIENTS (SPIKES): DO ABOVE CONNECTED LINE VOLTAGE *AT 20 MILLISECONDS MAXIMUM DURATION. SO ABOVE CONNECTED LINE VOLTAGE *AT 5 MILLISECONDS MAXIMUM DURATION. NEUTRAL TO GROUND SURGES: LINE TRANSIENTS (SPIKES): DO ABOVE CONNECTED LINE VOLTAGE *AT 5 MILLISECONDS MAXIMUM DURATION. NEUTRAL TO GROUND SURGES: LINE TRANSIENTS (SPIKES): DO ABOVE CONNECTED LINE VOLTAGE *AT 5 MILLISECONDS MAXIMUM DURATION. NEUTRAL TO GROUND SURGES: LINE TRANSIENTS (SPIKES): DO ABOVE CONNECTED LINE VOLTAGE *AT 20 MILLISECONDS MAXIMUM DURATION. DO ABOVE CONNECTED LINE VOLTAGE *AT 20 MILLISECONDS MAXIMUM DURATION. NEUTRAL TO GROUND: LO S VOLTS MAX. POTENTIAL O .25 OHMS MAX. POWER SUPPLY NOTES: LINCOMING POWER SUPPLIES FOR SIEMENS EQUIPMENT SHOULD BE DEDICATED (BACK TO SOURCE), ISOLATED AND INSULATED FROM ANY OTHER EQUIPMENT SUCH AS ELEVATORS, GENERATORS, HVAC SYSTEMS, ETC. SIEMENS MEDICAL SOLUTIONS, INC. RECOMMENDS THAT THE INCOMING POWER LINES BE ANALYZED WITH RESPECT TO TRANSIENT SURGES AND IMPULSES, SAGS AND OVERVOLTAGES. * CONNECTED LINE VOLTAGE IS THE ACTUAL VOLTAGE MEASURED IN THE FIELD AFTER THE POWER TRANSFORMER IS CONNECTED TO ITS LIVE LOAD AND IS THE VOLTAGE USED BY SIEMENS TO	POWER QUALITY	PARAMETERS
LINE VOLTAGE VARIATION AT GENERATOR PEAK OUTPUT OF 160 KVA: PHASE BALANCE: PHASE BALANCE: PHASE BALANCE: VOLTAGE SURGES: VOLTAGE SURGES: VOLTAGE SAGS: VOLTAGE SAGS: VOLTAGE SAGS: 10% MAX. ABOVE CONNECTED LIVOLTAGE *AT 20 MILLISECONDS MAXIMUM DURATION. VOLTAGE *AT 20 MILLISECONDS MAXIMUM DURATION. LINE TRANSIENTS (SPIKES): 50% ABOVE CONNECTED LINE VOLTAGE *AT 5 MILLISECONDS MAXIMUM DURATION. NEUTRAL TO GROUND: NEUTRAL TO GROUND SURGES: 10% VOLTS MAX. POTENTIAL SYSTEM GROUNDING IMPEDANCE: 0.25 OHMS MAX. POWER SUPPLY NOTES: 1. INCOMING POWER SUPPLIES FOR SIEMENS EQUIPMENT SHOULD BE DEDICATED (BACK TO SOURCE), ISOLATED AND INSULATED FROM ANY OTHER EQUIPMENT SUCH AS ELEVATORS, GENERATORS, HVAC SYSTEMS, ETC. 2. SIEMENS MEDICAL SOLUTIONS, INC. RECOMMENDS THAT THE INCOMING POWER LINES BE ANALYZED WITH RESPECT TO TRANSIENT SURGES AND IMPULSES, SAGS AND OVERVOLTAGES. * CONNECTED LINE VOLTAGE IS THE ACTUAL VOLTAGE MEASURED IN THE FIELD AFTER THE POWER TRANSFORMER IS CONNECTED TO ITS LIVE LOAD AND IS THE VOLTAGE USED BY SIEMENS TO	MAXIMUM LINE VOLTAGE VARIATION	±10% OF SYSTEM VOLTAGE
FREQUENCY VARIATION: # 1 HZ. OF 60 HZ VOLTAGE SURGES: 10% MAX. ABOVE CONNECTED LIVOLTAGE *AT 20 MILLISECONDS MAXIMUM DURATION. VOLTAGE SAGS: 10% MAX. BELOW CONNECTED LIVOLTAGE *AT 20 MILLISECONDS MAXIMUM DURATION. LINE TRANSIENTS (SPIKES): 50% ABOVE CONNECTED LINE VOLTAGE *AT 5 MILLISECONDS MAXIMUM DURATION. NEUTRAL TO GROUND: # 0.5 VOLTS MAX. POTENTIAL NEUTRAL TO GROUND SURGES: # 10 VOLTS MAX. POTENTIAL SYSTEM GROUNDING IMPEDANCE: 0.25 OHMS MAX. POWER SUPPLY NOTES: 1. INCOMING POWER SUPPLIES FOR SIEMENS EQUIPMENT SHOULD BE DEDICATED (BACK TO SOURCE), ISOLATED AND INSULATED FROM ANY OTHER EQUIPMENT SUCH AS ELEVATORS, GENERATORS, HVAC SYSTEMS, ETC. 2. SIEMENS MEDICAL SOLUTIONS, INC. RECOMMENDS THAT THE INCOMING POWER LINES BE ANALYZED WITH RESPECT TO TRANSIENT SURGES AND IMPULSES, SAGS AND OVERVOLTAGES. * CONNECTED LINE VOLTAGE IS THE ACTUAL VOLTAGE MEASURED IN THE FIELD AFTER THE POWER TRANSFORMER IS CONNECTED TO ITS LIVE LOAD AND IS THE VOLTAGE USED BY SIEMENS TO	LINE VOLTAGE VARIATION AT GENERATOR PEAK OUTPUT OF 160 KVA:	2% OF CONNECTED LINE VOLTAGE
VOLTAGE SURGES: 10% MAX. ABOVE CONNECTED LIVOLTAGE *AT 20 MILLISECONDS MAXIMUM DURATION. VOLTAGE SAGS: 10% MAX. BELOW CONNECTED LIVOLTAGE *AT 20 MILLISECONDS MAXIMUM DURATION. LINE TRANSIENTS (SPIKES): 50% ABOVE CONNECTED LINE VOLTAGE *AT 5 MILLISECONDS MAXIMUM DURATION. NEUTRAL TO GROUND: \$\text{to sound surges}\$: \$\text{to volts max. Potential}\$ NEUTRAL TO GROUND SURGES: \$\text{to volts max. Potential}\$ SYSTEM GROUNDING IMPEDANCE: 0.25 OHMS MAX. POWER SUPPLY NOTES: 1. INCOMING POWER SUPPLIES FOR SIEMENS EQUIPMENT SHOULD BE DEDICATED (BACK TO SOURCE), ISOLATED AND INSULATED FROM ANY OTHER EQUIPMENT SUCH AS ELEVATORS, GENERATORS, HVAC SYSTEMS, ETC. 2. SIEMENS MEDICAL SOLUTIONS, INC. RECOMMENDS THAT THE INCOMING POWER LINES BE ANALYZED WITH RESPECT TO TRANSIENT SURGES AND IMPULSES, SAGS AND OVERVOLTAGES. * CONNECTED LINE VOLTAGE IS THE ACTUAL VOLTAGE MEASURED IN THE FIELD AFTER THE POWER TRANSFORMER IS CONNECTED TO ITS LIVE LOAD AND IS THE VOLTAGE USED BY SIEMENS TO		2% MAX. BETWEEN ANY 2 PHASE
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VOLTAGE *AT 5 MILLISECONDS MAXIMUM DURATION. NEUTRAL TO GROUND: ±0.5 VOLTS MAX. POTENTIAL NEUTRAL TO GROUND SURGES: ±10 VOLTS MAX. POTENTIAL SYSTEM GROUNDING IMPEDANCE: 0.25 OHMS MAX. POWER SUPPLY NOTES: 1. INCOMING POWER SUPPLIES FOR SIEMENS EQUIPMENT SHOULD BE DEDICATED (BACK TO SOURCE), ISOLATED AND INSULATED FROM ANY OTHER EQUIPMENT SUCH AS ELEVATORS, GENERATORS, HVAC SYSTEMS, ETC. 2. SIEMENS MEDICAL SOLUTIONS, INC. RECOMMENDS THAT THE INCOMING POWER LINES BE ANALYZED WITH RESPECT TO TRANSIENT SURGES AND IMPULSES, SAGS AND OVERVOLTAGES. * CONNECTED LINE VOLTAGE IS THE ACTUAL VOLTAGE MEASURED IN THE FIELD AFTER THE POWER TRANSFORMER IS CONNECTED TO ITS LIVE LOAD AND IS THE VOLTAGE USED BY SIEMENS TO	VOLTAGE SAGS:	
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SYSTEM GROUNDING IMPEDANCE: 0.25 OHMS MAX. POWER SUPPLY NOTES: 1. INCOMING POWER SUPPLIES FOR SIEMENS EQUIPMENT SHOULD BE DEDICATED (BACK TO SOURCE), ISOLATED AND INSULATED FROM ANY OTHER EQUIPMENT SUCH AS ELEVATORS, GENERATORS, HVAC SYSTEMS, ETC. 2. SIEMENS MEDICAL SOLUTIONS, INC. RECOMMENDS THAT THE INCOMING POWER LINES BE ANALYZED WITH RESPECT TO TRANSIENT SURGES AND IMPULSES, SAGS AND OVERVOLTAGES. * CONNECTED LINE VOLTAGE IS THE ACTUAL VOLTAGE MEASURED IN THE FIELD AFTER THE POWER TRANSFORMER IS CONNECTED TO ITS LIVE LOAD AND IS THE VOLTAGE USED BY SIEMENS TO	NEUTRAL TO GROUND:	±0.5 VOLTS MAX. POTENTIAL
POWER SUPPLY NOTES: 1. INCOMING POWER SUPPLIES FOR SIEMENS EQUIPMENT SHOULD BE DEDICATED (BACK TO SOURCE), ISOLATED AND INSULATED FROM ANY OTHER EQUIPMENT SUCH AS ELEVATORS, GENERATORS, HVAC SYSTEMS, ETC. 2. SIEMENS MEDICAL SOLUTIONS, INC. RECOMMENDS THAT THE INCOMING POWER LINES BE ANALYZED WITH RESPECT TO TRANSIENT SURGES AND IMPULSES, SAGS AND OVERVOLTAGES. * CONNECTED LINE VOLTAGE IS THE ACTUAL VOLTAGE MEASURED IN THE FIELD AFTER THE POWER TRANSFORMER IS CONNECTED TO ITS LIVE LOAD AND IS THE VOLTAGE USED BY SIEMENS TO	NEUTRAL TO GROUND SURGES:	±10 VOLTS MAX. POTENTIAL
INCOMING POWER SUPPLIES FOR SIEMENS EQUIPMENT SHOULD BE DEDICATED (BACK TO SOURCE), ISOLATED AND INSULATED FROM ANY OTHER EQUIPMENT SUCH AS ELEVATORS, GENERATORS, HVAC SYSTEMS, ETC. SIEMENS MEDICAL SOLUTIONS, INC. RECOMMENDS THAT THE INCOMING POWER LINES BE ANALYZED WITH RESPECT TO TRANSIENT SURGES AND IMPULSES, SAGS AND OVERVOLTAGES. * CONNECTED LINE VOLTAGE IS THE ACTUAL VOLTAGE MEASURED IN THE FIELD AFTER THE POWER TRANSFORMER IS CONNECTED TO ITS LIVE LOAD AND IS THE VOLTAGE USED BY SIEMENS TO	SYSTEM GROUNDING IMPEDANCE:	0.25 OHMS MAX.
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IN THE FIELD AFTER THE POWER TRANSFORMER IS CONNECTED TO ITS LIVE LOAD AND IS THE VOLTAGE USED BY SIEMENS TO	INCOMING POWER LINES BE ANALYZ	ED WITH RESPECT TO TRANSIENT
	IN THE FIELD AFTER THE POWER TO TO ITS LIVE LOAD AND IS THE VOL	RANSFORMER IS CONNECTED

POLYDOROS A100

X-RAY GENERATOR POWER SUPPLY REQUIREMENTS

WIRING SYSTEM:

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

480Y/277V-3 PHASE-4-W, 60 HZ.

ELECTRICAL LEGEND SIZE DESCRIPTION REMARKS SUPPLIED AND INSTALLED BY CUSTOMER/CONTRACTOR BUSHED OPENING IN VERTICAL DUCT "VD1" COVER AT FLOOR LINE 18" X 8" CABLE CABINET 10 1/2"X 6" BUSHED OPENING IN HORIZONTAL DUCT "HD2" BUSHED OPENING IN TOP OF HORIZONTAL DUCT "HD1". CONTROL ROOM DISTRIBUTOR PULL BOX MOUNTED FLUSH IN FINISHED WALL AT FLOOR LINE, PROVIDE BOX WITH REMOVABLE | COOLING UNIT FRONT COVER AND (1) 4" BUSHING IN CENTER OF REMOVABLE COVER FOR CABLE EXIT. LOCATION BY CUSTOMER/CONTRACTOR. PULL BOX MOUNTED ABOVE FINISHED CEILING WITH REMOVABLE BOTTOM COVER WITH 4"0 EXAM ROOM MONITORS BUSHED OPENING. IF REQUIRED BY LOCAL CODE, PROVIDE 4" SLEEVE EXTENDING FROM BOX TO FLUSH WITH FINISHED CEILING. PROVIDE BUSHING AT CEILING LINE.. LOCATION BY CUSTOMER/CONTRACTOR IN CONJUNCTION WITH OEM BOOM. 12" X 12" X 8" PULL BOX MOUNTED FLUSH IN FINISHED CEILING WITH REMOVABLE BOTTOM COVER WITH 3" OEM DISPLAY POWER BUSHED OPENING. NOTE: THIS BOX MUST BE SIZED SUCH THAT A 8" X 6" X 3" SIEMENS POWER DISTRIBUTION BOX CAN BE INSTALLED INSIDE THIS PULLBOX. LOCATION BY CUSTOMER/CONTRACTOR IN CONJUNCTION WITH OEM BOOM. DOOR SWITCH, PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR, SEE PLAN. EMERGENCY OFF BUTTONS FOR CIRCUIT BREAKERS, EPO'S MUST PREVENT RESETTING OF CIRCUIT EMERGENCY POWER OFF BREAKERS WHEN IN OFF POSITION, EPO'S MUST BE RECESSED OR SHIELDED. SEE PLAN FOR BUSHED OPENING IN VERTICAL DUCT "VD3" COVER AT FLOOR LINE. IMAGE SYSTEM SIZED BY E.C. MULTI BREAKER PANEL, SEE DETAIL "POWER DIAGRAM" SHEET E-501 BREAKER PANEL 10" X 3 1/2" OPENING AT END OF HORIZONTAL DUCT "HD2" IN SHOWN LOCATION. AS REQUIRED PULLBOX MOUNTED FLUSH IN FINISHED WALL AS SHOWN CONNECTING TO "HD2" FOR COOLING MP UNIT PULL BOX MOUNTED FLUSH IN FINISHED WALL AT FLOOR LINE, PROVIDE BOX WITH REMOVABLE GENERATOR FRONT COVER AND (1) 4" BUSHING FOR CABLE EXIT, BUSHING TO BE LOCATED AT BOTTOM OF REMOVABLE COVER. SEE PLAN FOR LOCATION. PULL BOX MOUNTED FLUSH IN FINISHED WALL AT FLOOR LINE. PROVIDE BOX WITH REMOVABLE SYSTEM CABINET FRONT COVER AND (1) 4" BUSHING FOR CABLE EXIT, BUSHING TO BE LOCATED AT BOTTOM OF REMOVABLE COVER. SEE PLAN FOR LOCATION. WARNING LIGHT TO INDICATE "X-RAY ON" SUPPLIED AND INSTALLED BY CONTRACTOR. MOUNT LIGHT ABOVE OR NEXT TO ENTRY DOOR. SEE PLAN FOR LOCATIONS. HORIZONTAL DUCT MOUNTED ON FINISHED WALL AT FLOOR LINE. PROVIDE DUCT WITH HORIZONTAL WALL DUCT REMOVABLE FRONT COVER. CONNECT TO VERTICAL DUCT "VD2" AS SHOWN. HORIZONTAL DUCT MOUNTED FLUSH WITH FINISHED WALL AT FLOOR LINE, PROVIDE DUCT WITH REMOVABLE FRONT COVER AND (3) BARRIER SEGMENTS IF REQUIRED. CONNECT TO VERTICAL DUCT AS SHOWN. PROVIDE OPENINGS AS SPECIFIED. SEE PLAN FOR LOCATION. VERTICAL DUCT MOUNTED FLUSH IN FINISHED WALL. BEGIN DUCT AT FLOOR LINE AND EXTEND IP WALL ABOVE FINISHED CEILING. VERTICAL DUCT MOUNTED FLUSH IN FINISHED WALL, BEGIN DUCT AT FLOOR LINE AND EXTEND VERTICAL DUCT MOUNTED FLUSH IN FINISHED WALL. BEGIN DUCT AT FLOOR LINE AND EXTEND UP WALL ABOVE FINISHED CEILING. EC TO SIZE CONDUIT FROM PANEL TO "MP" SEE DETAIL "POWER DIAGRAM" EC TO SIZE CONDUIT FROM "MP" TO "PU1" SEE DETAIL "POWER DIAGRAM SHEET E-501 EC TO SIZE CONDUIT FROM "MP" TO "SC1" SEE DETAIL "POWER DIAGRAM" EC TO SIZE CONDUIT FROM "MP" TO "EPO" SEE DETAIL "POWER DIAGRAM" SHEET E-501 CONDUIT FROM "EPO" TO "EPO" EC TO SIZE EC TO SIZE CONDUIT FROM "SC1" TO "WL" CONDUIT FROM "SC1" TO "DS" EC TO SIZE CONDUIT FROM "VD3" (IS) TO "D1" MAXIMUM LENGTH 60' 2 1/2"ø CONDUIT FROM "VD1" (SC1) TO "D1" MAXIMUM LENGTH 62' 2 1/2"ø CONDUIT FROM "P2" TO "CU1" MAXIMUM LENGTH 85' CONDUIT FROM "VD1" (SC1) TO "CU1" MAXIMUM LENGTH 98' (1) 3"ø (1) 2"ø | CONDUIT FROM "CC" (SC1) TO "VD2" (CR1) MAXIMUM LENGTH 29' CONDUIT FROM "CC" (SC1) TO "VD3 (IS) MAXIMUM LENGTH 44' CONDUIT FROM "VD3" (IS) TO "VD2" (CR1) 3**"**ø MAXIMUM LENGTH 34' CONDUIT FROM "VD3" (IS) TO "VD2" (CR1) 2"ø MAXIMUM LENGTH 34' CONDUIT FROM "VD1" (CC) TO "D4" 2 1/2"ø MAXIMUM LENGTH 44' CONDUIT FROM "D1" TO "D4" MAXIMUM LENGTH 26'

ELECTRICAL NOTES

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

QUALITY ASSURANCE: THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD TO INSURE THAT THE NEW WORK WILL FIT O 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.

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. 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 TROUGHS, PULL BOXES, CONDUITS, CIRCUIT BREAKERS, EMERGENCY OFF BUTTONS, DOOR SWITCHES, WARNING LIGHTS, WIRING, WIRING DEVICES, CONNECTORS, LIGHTING EQUIPMENT AND GROUNDING.

RACEWAY AND CONDUIT NOTES: RACEWAY SHALL BE ELECTRIC METALLIC TUBING (EMT) FOR RIGID CONDUIT WORK, OR WHERE SHORT OFF-SET CONNECTIONS ARE REQUIRED LIQUIDTIGHT 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 THROAT 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 CABLING). DIVIDERS AND CROSSOVER PIECES TO BE PROVIDED AS NECESSARY. FOR UL CERTIFIED SYSTEMS, THE CABLE TO CABLE AS WELL AS THE CIRCUIT 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-FLOOR TRENCH DUCT AND FLUSH FLOOR BOXES SHALL BE PROVIDED WITH FULLY GASKETED REMOVABLE COVERS.

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 SHÀLL 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, THAT HAVE A HIGH ENOUGH SHORT CIRCUIT CURRENT WITHSTAND

CONSIDERATION MUST ALSO BE GIVEN TO SELECTING CIRCUIT BREAKERS 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 I 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.

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 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"

ARTIS ZEE MULTIPURPOSI

SIEMENS

GRAPHIC SCALE:

CENTER
PBC RENOVATION

MAINE MEDICAL (HOLDING, RADCU & P

FOR 02.

SUED

PROJECT MANAGER: JC/DRAWN BY: A/E OF RECORD: PROJECT NO:

NORTH

VENDOR EQUIPMENT DRAWINGS SHEET 6

Q-006

CONTRACTOR SUPPLIED ITEMS

ALL ITEMS, INCLUDING BUT NOT LIMITED TO CONDUITS, DUCTS, CIRCUIT BREAKERS, EMERGENCY OFF BUTTONS, DOOR SWITCHES, AND WARNING LIGHTS, SHOWN IN THESE PLANS ARE TO BE SUPPLIED AND INSTALLED BY THE CUSTOMER/ELECTRICAL CONTRACTOR, UNLESS OTHERWISE SPECIFIED.

CEILING	RECOMMENDED
HEIGHT	CEILING
RANGE	HEIGHT
9'-0 1/4" - 10'-6"	9'-6 3/8"

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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	SY	ſΜ	
EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.			

R-101RD VERSION DATED 12/05 01/04/12 APPROVED BY CUSTOMER FOR FIN DATE DESCRIPTION -ISSUE BLOCK-

THE USE OR REPRODUCTION OF TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW. ALL RIGHTS ARE RESERVED. AS NOTED

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REF. #30152323 01/04/12

PROJECT #: 1102468 J.PAOLUCCI CHECKED:

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

WARNING LIGHT/ROOM LIGHT SCHEMATIC

LIGHTING DETAIL

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

NOTE: THIS DRAWING WAS NOT PREPARED BY SMRT. IT IS PROVIDED FOR COORDINATION AND REFERENCE PURPOSES ONLY.

MAINE MEDICAL CENTER

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