

ITEM	QTY.	DESCRIPTION (ALL PARTS CUSTOMER/CONTRACTOR-SUPPLIED)
A.	1	* PERMANENT FUSE/MAIN & MAIN BREAKER
B.	1	* 100/250V 120 VAC UNDERVOLTAGE TRIP
C.	1	* 100/250V 120 VAC 3 POLE BREAKER FOR POLYCORDS ALSO (PU1)
D.	1	* 100/250V 120 VAC 3 POLE BREAKER FOR SYSTEM CABLE (SC1)
E.	1	* 100/250V 120 VAC 3 POLE BREAKER FOR SYSTEM CABLE (SC1)
F.	1	* 100/250V 120 VAC 3 POLE BREAKER FOR SYSTEM CABLE (SC1)
G.	1	* 100/250V 120 VAC 3 POLE BREAKER FOR SYSTEM CABLE (SC1)
H.	1	* 100/250V 120 VAC 3 POLE BREAKER FOR SYSTEM CABLE (SC1)
I.	1	* 100/250V 120 VAC 3 POLE BREAKER FOR SYSTEM CABLE (SC1)
J.	1	* 100/250V 120 VAC 3 POLE BREAKER FOR SYSTEM CABLE (SC1)

NOTES:

- THE EPO (EMERGENCY POWER OFF) MUST PROVIDE REMOTE EMERGENCY OFF CONTROL OF SYSTEM POWER. THE EPO MUST BE INSTALLED BY A QUALIFIED ELECTRICAL CONTRACTOR ACCORDING TO NATIONAL ELECTRICAL CODE, STATE AND LOCAL REGULATIONS. THE EPO MUST BE INSTALLED IN A LOCATION THAT IS EASILY ACCESSIBLE AND THAT IT SERVES ITS SOURCE FROM THE EQUIPMENT INCOMING FEEDER OR IS A DERIVED BRANCH CIRCUIT. PREFERENTLY FROM AN EMERGENCY POWER SOURCE WITH CIRCUIT BREAKER LABELED AND "LOCKED-ON". THE EPO CONFIGURATION DEPICTED IN THIS DRAWING IS ONE EXAMPLE OF A POSSIBLE EPO CONFIGURATION THAT SATISFIES THESE REQUIREMENTS. HOWEVER, THE EPO CONFIGURATION IS SOLELY RESPONSIBLE FOR THE IMPLEMENTATION OF THE EPO AND MUST MAKE THE FINAL DETERMINATION CONSIDERING ALL SITE CONDITIONS AND REGULATORY FACTORS.
- THE EMERGENCY POWER OFF BUTTON MUST BE SIEMENS PART NUMBER 3SB8000-1H40D EPO ACTUATOR SUPPLIED AND INSTALLED BY THE CUSTOMER/CONTRACTOR. EACH EPO BUTTON MUST HAVE ONE SET OF CONTACTS. THIS SET MUST BE A NORMALLY CLOSED SET WITH 120V FOR THE UNDERVOLTAGE TRIP. AND WILL BE CONNECTED IN SERIES (THEORY OF CIRCUIT). WHEN ANY EPO IS PULSED, THE NORMALLY CLOSED CONTACT WILL OPEN, INTERRUPTING THE 120 VOLTS TRIPPING THE MAIN BREAKER.
- 8 THROUGH 9 TO BE ORDERED ALONG WITH (A).
- 120V UNDERVOLTAGE TRIP SHOWN SEPARATELY TO BE ADDED TO THE ENCLOSED BREAKER RATING FROM 15-125 AMPS.
- FOCUS ARE THE BREAKER NUMBERS FOLLOWED BY 150 FOR 150 AMPS, 200 FOR 200 AMPS, ETC. UP TO 250 AMPS MAX. (EAS) ARE THE BREAKER NUMBERS FOLLOWED BY 150 FOR 150 AMPS, 200 FOR 200 AMPS, ETC. UP TO 250 AMPS, MAXIMUM BASED ON OVERCURRENT SIZE.

*RECOMMENDED PART NUMBERS SHOWN ARE SIEMENS ENERGY & AUTOMATION (PURCHASED FROM YOUR LOCAL DISTRIBUTOR OR EQUIVALENT) TO LOCATE A DISTRIBUTOR VISIT THIS WEBSITE: [HTTP://WWW.SIEMENS.COM](http://www.siemens.com). ALL PARTS TO BE SUPPLIED AND INSTALLED BY CUSTOMER/CONTRACTOR.

1	POWER DIAGRAM	SCALE: NONE
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GROUNDING NOTES

1) SIEMENS MEDICAL SOLUTIONS EQUIPMENT INVOLVES SOPHISTICATED ELECTRONIC SYSTEMS THAT REQUIRE ATTENTION TO GROUNDING TO ENSURE OPTIMAL EQUIPMENT PERFORMANCE AND RELIABILITY.

2) THE EQUIPMENT GROUND TO THE SIEMENS EQUIPMENT IS SPECIFIED TO BE "ISOLATED" TYPE AS PERMITTED IN NEC 250-90(B) FOR THE REDUCTION OF ELECTRICAL NOISE. TWO (2) SEPARATE GROUND CONDUCTORS ARE REQUIRED:

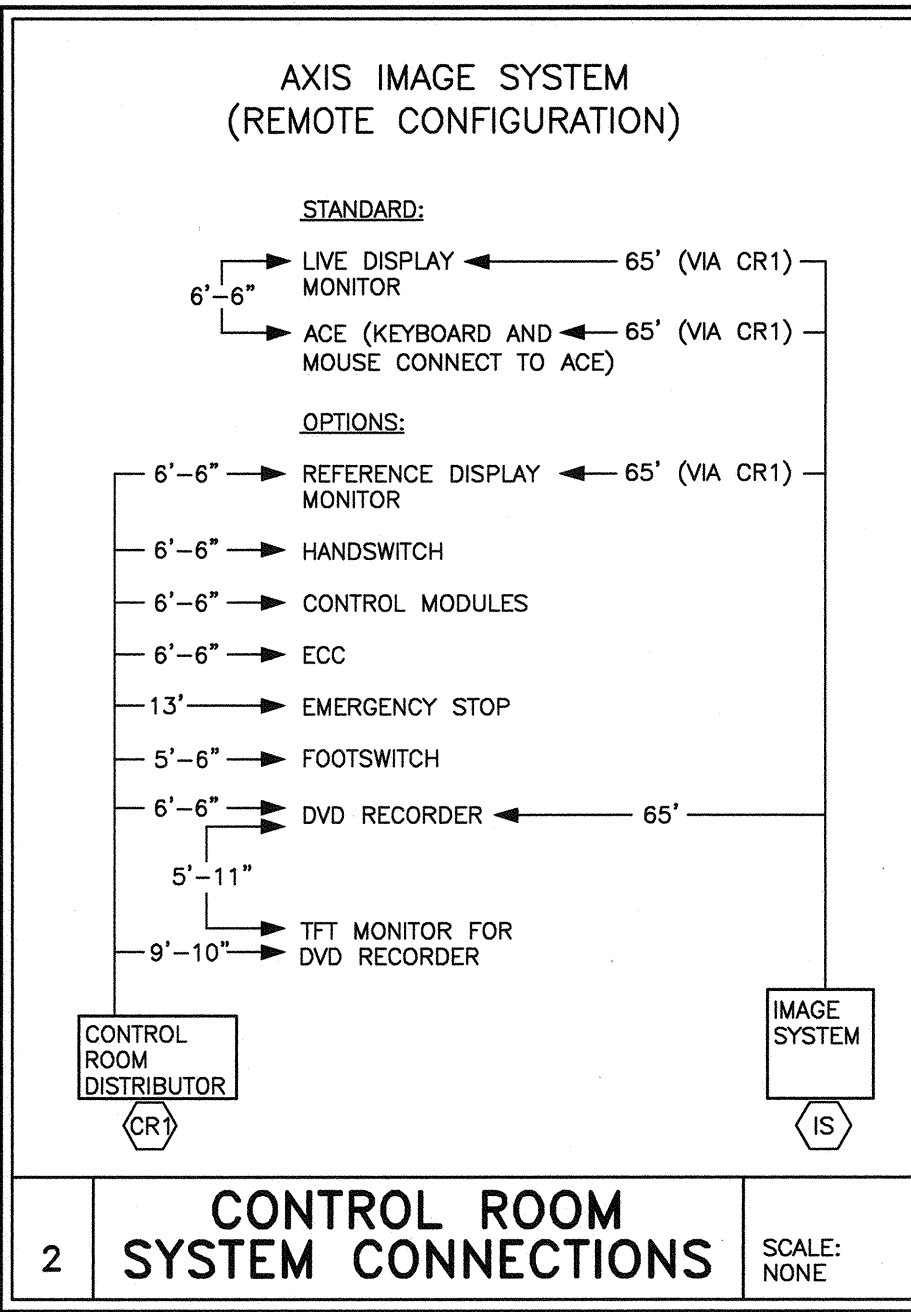
A) A "SAFETY GROUND" OR "GROUND", TO BE THE SAME SIZE AS THE EQUIPMENT PHASE CONDUCTORS, AND BONDED NORMALLY TO ELECTRICAL BOXES, CONDUITS, AND NON-SIEMENS EQUIPMENT.

B) AN "EQUIPMENT GROUND" OR "ISOLATED GROUND" TO BE THE SAME SIZE AS THE EQUIPMENT PHASE CONDUCTORS, AND INSULATED FROM DELIBERATE OR ACCIDENTAL CONNECTION TO THE "SAFETY GROUND OR GROUND, BUILDING STEEL OR OTHER UNKNOWN VOLTAGE POTENTIALS" EXCEPT AT THE POINT OF GROUNDING ORIGIN.

C) THE "EQUIPMENT GROUND" OR "ISOLATED GROUND" ORIGINATES AT THE GROUND BUS OF THE DISTRIBUTION PANEL, AND TERMINATES AT THE MAIN GROUNDING CONNECTION WITHIN THE SIEMENS EQUIPMENT. THE "EQUIPMENT GROUND" OR "ISOLATED GROUND" MUST RUN IN THE SAME CONDUIT, TROUGH, OR RACEWAY AS THE PHASE CONDUCTORS AND "SAFETY GROUND" OR "GROUND".

D) THE "SAFETY GROUND" AND THE "EQUIPMENT GROUND" SHALL BE BONDED AT THE FACILITY SERVICE ENTRANCE, DISTRIBUTION PANEL, OR SEPARATELY DERIVED SOURCE.

3) LOCAL REQUIREMENTS MAY REQUIRE THAT NON-CURRENT CARRYING CONDUCTIVE SURFACES (TROUGH, CONDUITS, BOXES) BE BONDED BY A COPPER CONDUCTOR. THIS REQUIREMENT, IF NECESSARY, IS THE RESPONSIBILITY OF THE CUSTOMER AND CUSTOMER'S CONTRACTORS.



SIEMENS REMOTE SERVICES (SRS)

TO ENSURE THE UPTIME OF YOUR SYSTEM DURING THE WARRANTY PERIOD (AND BEYOND WITH A SERVICE AGREEMENT), SIEMENS REMOTE SERVICES (SRS) REQUIRES REMOTE LOCAL AREA NETWORK ACCESS TO SIEMENS SYSTEMS.

SRS REQUIRES ONE OF THE FOLLOWING CONNECTION METHODS:

(PREFERRED) VPN CONNECTION

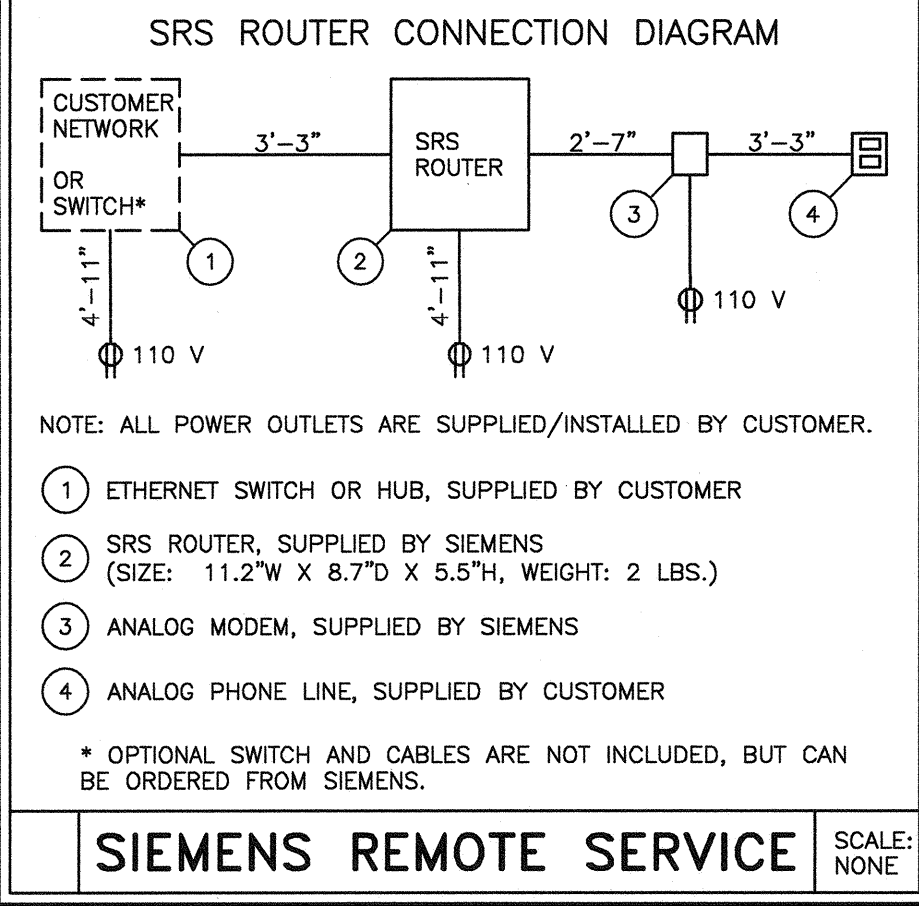
THE PREFERRED CONNECTION METHOD IS (VPN) VIRTUAL PRIVATE NETWORK (WHERE THE CUSTOMER HAS AVAILABLE A VPN CAPABLE FIREWALL OR OTHER VPN APPLIANCE). THIS METHOD PROVIDES THE POSSIBILITY FOR REMOTE SYSTEM DIAGNOSTICS WITHOUT ADDITIONAL HARDWARE. PLEASE CONTACT SIEMENS REMOTE SERVICES (800-888-SIEM) TO DETERMINE IF THIS METHOD IS SUITABLE FOR YOUR SITE.

(OPTIONAL) SRS ROUTER CONNECTION

THE SRS ROUTER IS SUPPLIED BY SIEMENS AND INSTALLED AT THE CUSTOMER'S SITE, WHILE STILL REMAINING THE PROPERTY OF SIEMENS. THE CUSTOMER'S NETWORK ADMINISTRATOR AND SIEMENS REMOTE SERVICES SHALL DETERMINE THE TYPE AND LOCATION OF THE SRS ROUTER REQUIRED.

THE SRS ROUTER IS CONNECTED TO AN ANALOG MODEM THAT IS SUPPLIED BY SIEMENS, WHICH THEN IN TURN IS CONNECTED TO AN ANALOG PHONE LINE THAT IS SUPPLIED BY THE CUSTOMER. ONE SRS ROUTER ALLOWS REMOTE DIAGNOSTICS TO MULTIPLE MEDICAL SYSTEMS.

THE SRS ROUTER SHOULD BE INSTALLED IN A SECURE LOCATION (CUSTOMER'S NETWORK COMPUTER ROOM) THAT HAS LIMITED ACCESS. IT CAN BE LOCATED ON A SHELF, TABLE, OR IN A CABINET. THE CONNECTION CABLES (WITH INDICATED LENGTHS BELOW) ARE INCLUDED WITH DELIVERY.



1	SIEMENS REMOTE SERVICE	SCALE: NONE
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FROM	VIA	TO	DESCRIPTION	REMARKS
PANEL	1	ME2	ELECTRICAL CONTRACTOR TO SIZE	SEE DETAIL "POWER DIAGRAM" SHEET E-501
ME2	2	UPS	ELECTRICAL CONTRACTOR TO SIZE	SEE DETAIL "POWER DIAGRAM" SHEET E-501
UPS	3	MP	ELECTRICAL CONTRACTOR TO SIZE PLUS CASE GROUND	SEE DETAIL "POWER DIAGRAM" SHEET E-501
UPS	4	RMP	4#14-18 (SHIELDED TWISTED PAIR) UP TO 500'	SEE DETAIL "POWER DIAGRAM" SHEET E-501
UPS	5	RMP	ELECTRICAL CONTRACTOR TO SIZE	SEE DETAIL "POWER DIAGRAM" SHEET E-501
MP	6	PU1	3#2, 1#2 ISOLATED GROUND AND CONNECT	SEE DETAIL "POWER DIAGRAM" SHEET E-501
MP	7	SC1	3#6, 1#6 NEUTRAL, 1#6 ISOLATED GROUND AND CONNECT	SEE DETAIL "POWER DIAGRAM" SHEET E-501
MP	8	EPO	2#12, PLUS GROUND	SEE DETAIL "POWER DIAGRAM" SHEET E-501
EPO	9	EPO	2#12, PLUS GROUND	EMERGENCY POWER
SC1	10	WL	14-18 AWG	SEE "LIGHTING DETAIL" SHEET E-101
SC1	11	DS	3#12, PLUS GROUND	DOOR SWITCH
WL	12	WL	3#12, PLUS GROUND	WARNING LIGHT
DS	13	DS	3#12, PLUS GROUND	DOOR SWITCH
PANEL	14	SU	EC TO SIZE	SURGERY LIGHT

FROM	VIA	TO	DESCRIPTION	REMARKS
P1	15, PB1, VD1	PU1	P1 LEFT HAND SIDE	MAXIMUM LENGTH 41"
P1	16, PB1, VD1	PU1	(2) HIGH VOLTAGE CABLES P1 LEFT HAND SIDE	MAXIMUM LENGTH 41"
P1	17, PB1, VD1	SC1	P1 LEFT HAND SIDE	MAXIMUM LENGTH 37"
P1	18	CU1	MINIMUM BENDING RADIUS 2" P1 LEFT HAND SIDE	MAXIMUM LENGTH 77"
SC1	SC2, 19, CRB, HD1	CR1	FOR CONTROL ROOM OPTIONS (CONTROL MODULES, FOOT SWITCH, DISPLAY, ECC)	MAXIMUM LENGTH 62"
SC1	SC2, 20	T1	NOT WITH OR TABLE	MAXIMUM LENGTH 45"
SC1	VD1, PB1, 21	CU1		MAXIMUM LENGTH 98"
SC1	UNDER CABINETS	PU1		MAXIMUM LENGTH 16"
SC1	VD1, PB1, 22, PB3, VD3	IS		MAXIMUM LENGTH 64"
SC1	VD1, PB1, 23	D1	DCS	MAXIMUM LENGTH 62"
IS	VD3, PB3, 24	D1	DCS	MAXIMUM LENGTH 75"
IS	IS2, 25, CRB, HD1	CR1	ACE CABLE SET IN EQUIPMENT ROOM	MAXIMUM LENGTH 65"
IS	IS2, 26, CRB, HD1	CR1	ACE CABLE SET IN EQUIPMENT ROOM	MAXIMUM LENGTH 65"
SC1	VD1, PB1, 27, PB4, VD4	IW	INJECTOR WALL CONNECTION	MAXIMUM LENGTH 62"
IWU	HD1, CRB, 28	B10	VOLCANO IWUS (INTRAVASCULAR ULTRASOUND)	MAXIMUM LENGTH 98"
IWU	HD1, CRB, 29	T1	VOLCANO IWUS (VOLCANO S51 CABLE SET)	MAXIMUM LENGTH 98"
INJ	VD4, 30, CRB, HD1	IN1	INJECTOR ELECTRONICS TO CONTROL	MAXIMUM LENGTH 67"
INJ	VD4, 31	IN2	INJECTOR CONTROL TO INJECTOR HEAD	MAXIMUM LENGTH 78"
CR1	HD1, VD2, PB2, 32	IC	INTERCOM	
T1	33	B10		
CRB	34	B10	CUSTOMER PATIENT MONITORING, ETC.	

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SCALE: AS NOTED		SHEET 7 OF 8	
REF: # 30143696		DRAWN BY: M. YATZUS	
DATE: 01/02/11		CHECKED: 01/02/11	

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.