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BIOGRAPH mCT.X 128



Contents:

Sheet No.	Description
A-101	EQUIPMENT PLAN-LEGEND, DETAILS AND NOTES
A-102	CLEARANCE PLAN-CONTROL ROOM ELEVATION
S-101	STRUCTURAL PLAN-DETAILS AND NOTES
S-102	STRUCTURAL CEILING PLAN AND DETAILS
S-501	DETAILS AND NOTES
E-101	ELECTRICAL PLAN(S)-LEGEND AND NOTES
E-102	ELECTRICAL PLAN-LEGEND AND NOTES
E-501	ELECTRICAL DETAILS AND NOTES
M-101	MECHANICAL PLAN-DETAILS AND NOTES
M-501	MECHANICAL DETAILS AND NOTES



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SIEMENS MEDICAL SOLUTIONS

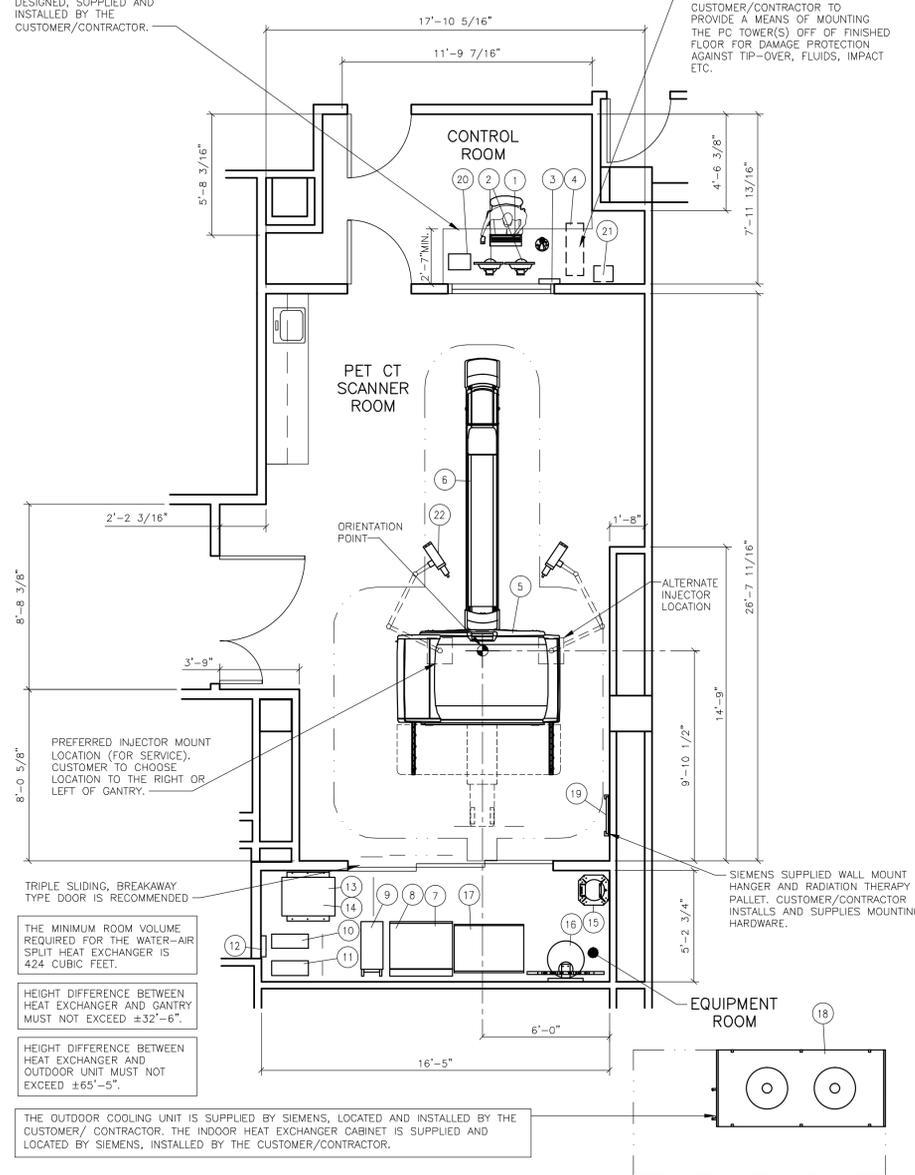
51 Valley Stream Parkway
Malvern, PA 19355
www.usa.siemens.com/medical

HEIGHT OF WINDOW TO BE COORDINATED WITH COUNTERTOP/DESK HEIGHT.

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.

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

IT IS THE RESPONSIBILITY OF THE CUSTOMER/CONTRACTOR TO PROVIDE A MEANS OF MOUNTING THE PC TOWER(S) OFF OF FINISHED FLOOR FOR DAMAGE PROTECTION AGAINST TIP-OVER, FLUIDS, IMPACT ETC.



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.

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.

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.

PLANNING REQUIREMENTS
EMERGENCY POWER OFF (EPO) BUTTONS REQUIRED IN CONTROL ROOM AREA, SCANNER ROOM AREA AND EQUIPMENT AREA.
DOOR (SAFETY) SWITCH REQUIRED ON ALL DOORS ACCESSING THE EXAMINATION ROOM IN ACCORDANCE WITH LOCAL CODES.

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 AND ALL POWER OUTLETS FUNCTIONING.
 - 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.
 - 5) ALL CABLE TRAYS/DUCTS/CONDUITS CORRECTLY SIZED, LOCATED, AND INSTALLED ACCORDING TO THE SIEMENS DRAWINGS.
 - 6) ALL REINFORCEMENT PLATES/UNISTRUT 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' x 10') IS AVAILABLE AT EQUIPMENT DELIVERY FOR PARTS AND INSTALLATION TOOLS.
 - 9) CUSTOMER SUPPLIED CAMERAS AND PROCESSORS INSTALLED.
 - 10) CUSTOMER APPROVAL FOR SIEMENS REMOTE SERVICES (SRS) CONNECTION, AND CUSTOMER'S I.T. CONTACT INFORMATION AND IP ADDRESSES ESTABLISHED.
 - 11) WALLS TO BE PRIMED AND PAINTED, FLOORS TO BE TILED EXCEPT IN AREAS OF THE EQUIPMENT BASE PLATES.
- 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 AND DELIVERY DATES MAY NEED TO BE RESCHEDULED, WHEN THE SIEMENS SITE READINESS GUIDELINES ARE NOT MET.

NOISE LEVEL

SYSTEM COMPONENT	DECIBEL LEVEL (AT 3'-3" DISTANCE)
PET/CT GANTRY	<68
PHS	<60
PDU CABINET	≤55
PDC CABINET	≤55
IRSmx3c TOWER (20/40/64 SLICE)	<55 (1)
IRSmx3b TOWER (128 SLICE/EDGE)	<55
ACS / PRS TOWER PC	<50
HEAT EXCHANGER - WATER/AIR SPLIT	<60

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

GOVERNMENT PROJECTS

THE SIEMENS PLANS ARE NOT COMPLETE CONSTRUCTION DOCUMENTS. THEY ARE INTENDED AS DESIGN RECOMMENDATIONS FOR OPTIMAL EQUIPMENT OPERATION. SHOULD THE GOVERNMENT PROJECT BE EXEMPT FROM APPLICABLE CODE LIMITATIONS, THE PLANS MAY BE UTILIZED AS CONSTRUCTION GUIDANCE BY CONSTRUCTION PROFESSIONALS.

ENVIRONMENTAL REQUIREMENTS

CLIMATE CONTROL MUST BE PROVIDED 24 HOURS A DAY, 7 DAYS A WEEK. TEMPERATURE SETBACKS ARE NOT ALLOWED. PLEASE SEE EQUIPMENT LEGEND FOR SITE SPECIFIC HEAT DISSIPATION.

SCANNER ROOM:
THE SCANNER ROOM SHOULD MAINTAIN BETWEEN 68°F-79°F (± 2.7°F PER HR.) AND A RELATIVE HUMIDITY OF 20-75% WITH DewPoint BELOW 63°F. A BAROMETRIC PRESSURE: 10.9 TO 15.4 PSI. AIR CONDITIONING MUST BE PROVIDED 24 HRS A DAY, 7 DAYS A WEEK.

EQUIPMENT ROOM:
THE EQUIPMENT ROOM SHOULD MAINTAIN BETWEEN 64°F-86°F AND A RELATIVE HUMIDITY OF 20-75%. A BAROMETRIC PRESSURE: 10.9 TO 15.4 PSI. AIR CONDITIONING MUST BE PROVIDED 24 HRS A DAY, 7 DAYS A WEEK.

CONTROL ROOM:
THE CONTROL ROOM SHOULD MAINTAIN BETWEEN 68°F-79°F AND A RELATIVE HUMIDITY OF 20-75%. A BAROMETRIC PRESSURE: 10.9 TO 15.4 PSI.

EXTERIOR AIR VENTS SHOULD BE EQUIPPED WITH A FILTRATION SYSTEM OF THE FILTER CLASS EU3 TO EU4 TO FILTER DUST PARTICLES UP TO >10µm.

THE ROOM AIR SHOULD BE PROTECTED AGAINST CONTAMINATION BY HYDROGEN SULPHIDE, EVEN IN SMALL AMOUNTS. THE MOST COMMON SOURCES FOR HYDROGEN SULFIDES ARE:

- EXHAUST FUMES AND WASTE WATER OF FILM PROCESSORS.
- EXPOSED SEWER DRAINAGE - NON SYPHON INCLUDED.
- SEWER PIPE OR IN FLOOR DRAIN.
- EXHAUST FUMES FROM DIESEL POWER UNITS
- EMERGENCY POWER, ETC.

IF A DANGER OF SUCH CONTAMINATION EXISTS, CORRECTIVE ACTIONS IS REQUIRED E.G.,

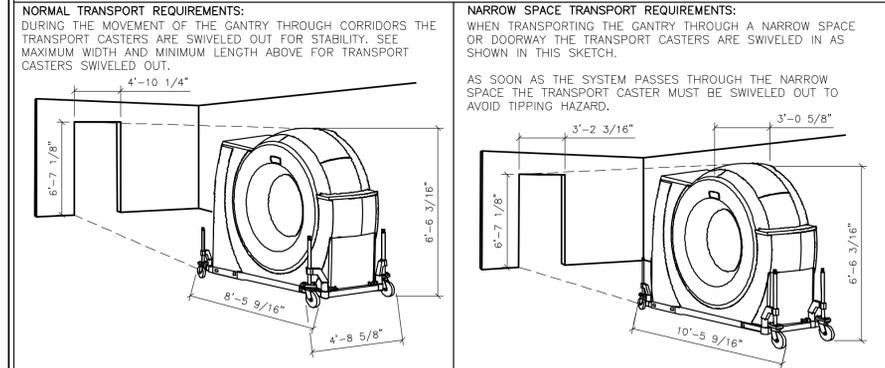
- EXTRACTOR FANS
- SYPHON
- MODIFICATION OF VENTILATION INTAKE, ETC.

EQUIPMENT LEGEND

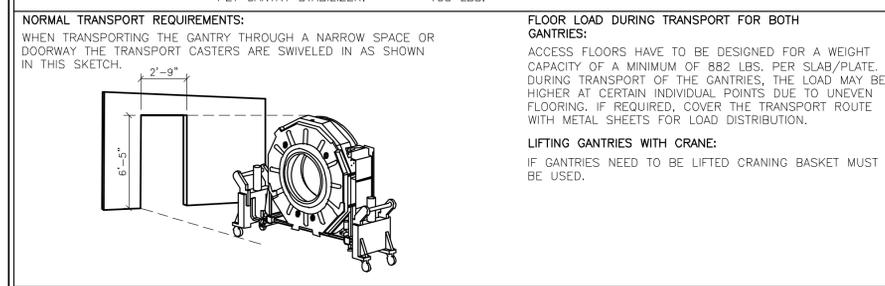
NO	DESCRIPTION	SMS SYM	WEIGHT (LBS)	BTU/HR TO AIR	DIMENSIONS (INCHES)			REMARKS
					W	D	H	
1	KEYBOARD AND CONTROL BOX - ICS	⊖	-	-	-	-	-	ON CUSTOMER'S COUNTER
2	19" FLAT SCREEN DUAL CONTROL MONITORS	⊖	29	<225	16 1/2	8 3/8	16 1/8	ON CUSTOMER'S COUNTER
3	POWER CONNECTION TERMINAL - ICS	⊖	-	-	-	-	-	WALL MOUNTED
4	SYNGO ACQUISITION WORKPLACE	⊖	<30	<1706	9 13/16	29 1/2	18 1/2	OFF FLOOR/IN CONTAINER
5	BIOGRAPH mCT X GANTRY	⊖	7,184	5,123*	92 5/16	53 1/2	80 1/4	*ADDITIONAL HEAT DISSIPATED TO WATER 51,228 BTU/HR
6	PATIENT TABLE	⊖	1,586	1,023	17	148 7/8	48	UPS LOCATED INSIDE OF PDC
7	POWER DISTRIBUTION CABINET & UPS	⊖	<1,374	6,824	35 1/2	27 1/2	76 7/8	UPS LOCATED INSIDE OF PDC
8	ETHERNET SWITCH FOR ICS, IRS, GANTRY & PDC'S	⊖	-	-	-	-	-	LOCATED INSIDE PDC
9	IMAGE RECONSTRUCTION SYSTEM - IRSmx3b	⊖	94	4,095	12 1/2	30 3/4	19 3/4	WITH 128/EDGE CONFIG.
10	PET ACQUISITION SYSTEM	⊖	<60	1,706	8	21	17 13/16	OFF FLOOR
11	PET RECONSTRUCTION SYSTEM	⊖	<60	1,706	8	21	17 13/16	OFF FLOOR
12	POWER CONNECTION TERMINAL - ACS/PRS	⊖	-	-	13 9/16	2 15/16	5 11/16	WALL MOUNTED
13	POWER DISTRIBUTION UNIT & COMP UPS - PDU	⊖	792	3,800	27 3/4	30	61 1/4	ON FLOOR
14	PET GANTRY UPS	⊖	106	1,150	17 1/2	28 1/2	6	LOCATED INSIDE PDU
15	LEAD PIG	⊖	392	-	17	17	20 1/2	RADIOACTIVE SOURCE STORAGE
16	FILTER ASSEMBLY	⊖	25	-	9	20	16	WALL MOUNTED. SIEMENS/CUSTOMER SUPPLIED
17	HEAT EXCHANGER CABINET - WATER/AIR SPLIT	⊖	911	3,412	39 3/8	27 1/4	77	ON FLOOR
18	OUTDOOR UNIT - WATER/AIR SPLIT	⊖	397	119,425	43 1/4	95 1/2	40 1/2	
19	RTP PALLET	⊖	23.5	-	21	10	80 1/2	SIEMENS/CUSTOMER SUPPLIED WALL MOUNTED.
20	MEDRAD DISPLAY CONTROL UNIT	⊖	8	-	12 1/2	9	13 1/2	HEIGHT WITH SCREEN UP
21	MEDRAD BASE UNIT	⊖	14	-	11	8 3/4	11 1/2	UNDER COUNTER ON SHELF
22	CEILING MOUNTED MEDRAD INJECTOR	⊖	106	-	-	-	-	SEE MFG SPECIFICATIONS

TRANSPORT AND DELIVERY

TOTAL CT GANTRY TRANSPORT DEVICE WEIGHT: 5,267 LBS.
CT GANTRY WITHOUT COVERS AND TRANSPORT DEVICE: 5,026 LBS.
CT TRANSPORT DEVICE: 417 LBS.



TOTAL PET GANTRY TRANSPORTING DEVICE AND STABILIZER WEIGHT: 2,830 LBS.
PET GANTRY TRANSPORT DEVICE: 532 LBS.
PET GANTRY STABILIZER: 100 LBS.



FINISHED ROOM HEIGHT

FOR BIOGRAPH mCT GANTRY ONLY	RECOMMEND 8'-0" MINIMUM 7'-5"
CAREVISION MONITOR/CEILING MOUNT	MIN. 8'-7 1/2" MAX. 11'-2 5/8"
CEILING MOUNT INJECTOR	MINIMUM 8'-9 1/2"

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 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 (E.G. 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. CUSTOMER SHALL BE 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.
- 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 CABLES 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 PARTS 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 ANGIOGRAPHY EQUIPMENT TO BE CEILING OR WALL MOUNTED (E.G. 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.

RESOURCE LIST (SMS USE ONLY)

DESIGNATION	PG NUMBER	DATE
BIOGRAPH mCT-S/X/EXCEL/FLOW	M119-000.891.01.02.02	08/13

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THIS DRAWING SHOULD NOT BE CONSIDERED AS AN OFFER TO SELL THE EQUIPMENT SHOWN HEREIN. THE OFFER IS MADE ONLY THROUGH OUR QUOTATION WHERE THE EXACT EQUIPMENT BEING PROPOSED IS CLEARLY OUTLINED. THIS DRAWING IS THE PROPERTY OF MED-LAB. REPRODUCTION IS PROHIBITED UNLESS EXPRESSLY AUTHORIZED.

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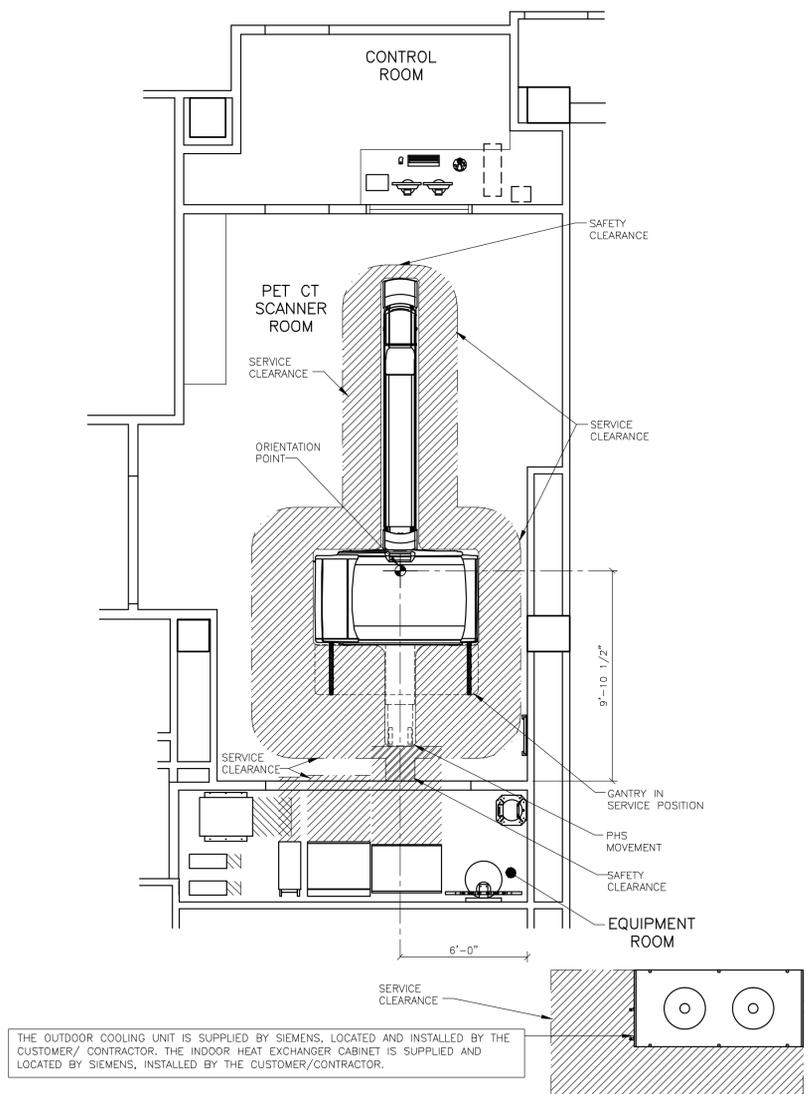
DATE: 03/09/15 DRAWN BY: M. SERGOT

SCALE: AS NOTED REF: 30158795

DATE: 03/09/15

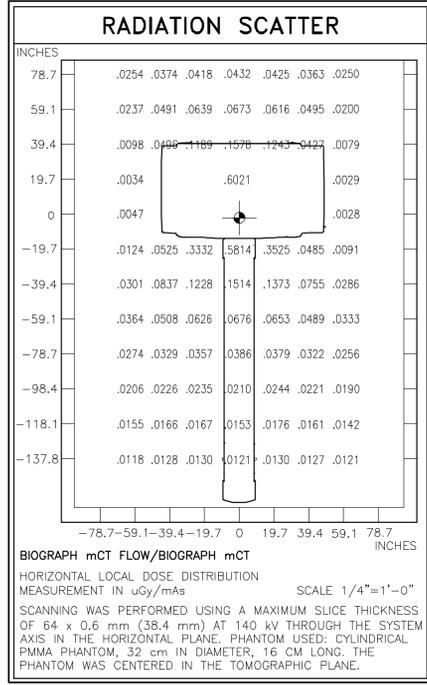
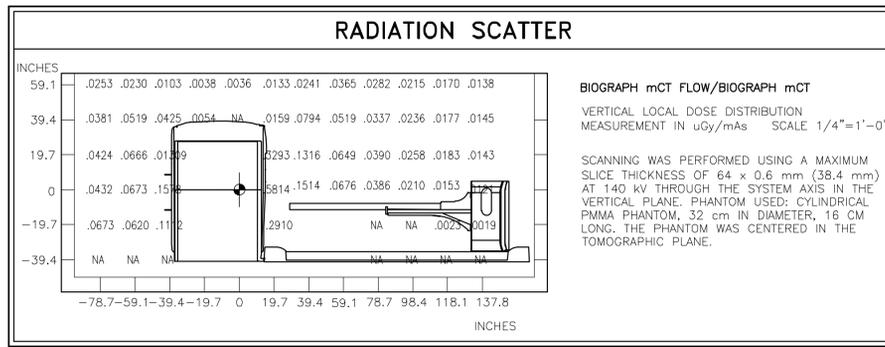
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—ISSUE BLOCK—



SAFETY/SERVICE CLEARANCE PLAN

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



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.

SRS ROUTER CONNECTION DIAGRAM

NOTE: ALL POWER OUTLETS ARE SUPPLIED/INSTALLED BY CUSTOMER.

- ETHERNET SWITCH OR HUB, SUPPLIED BY CUSTOMER
- SRS ROUTER, SUPPLIED BY SIEMENS (SIZE: 11.2"W x 8.7"D x 5.5"H, WEIGHT: 2 LBS.)
- ANALOG MODEM, SUPPLIED BY SIEMENS
- ANALOG PHONE LINE, SUPPLIED BY CUSTOMER

* OPTIONAL SWITCH AND CABLES ARE NOT INCLUDED, BUT CAN BE ORDERED FROM SIEMENS.

- SIEMENS REMOTE SERVICE SCALE: NONE

RAM LICENSE

RAM LICENSE NEEDS TO BE APPLIED THROUGH GOVERNMENT AGENCY AS EARLY AS POSSIBLE. PLEASE ADDRESS WITH YOUR RSO (RADIATION SAFETY OFFICER).

RAM LICENSE MUST BE OBTAINED NO LATER THAN 4 WEEKS AHEAD OF SCHEDULED DELIVERY. DELAY OF INSTALLATION MAY OCCUR IF SITE HAS NOT OBTAINED RAM LICENSE AT THIS TIME. RADIOACTIVE SOURCES NEEDED TO COMPLETE CALIBRATION OF EQUIPMENT WILL NOT BE SHIPPED TO SITE WITHOUT VALID RAM LICENSE.

FINISHED ROOM HEIGHT	
FOR BIOGRAPH mCT GANTRY ONLY	RECOMMEND 8'-0" MINIMUM 7'-5"
CAREVISION MONITOR/CEILING MOUNT	MIN. 8'-7 1/2" MAX. 11'-2 5/8"
CEILING MOUNT INJECTOR	MINIMUM 8'-9 1/2"

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IN ORDER TO AVOID DELAY IN INSTALLATION, MED-LAB'S PLANNING DEPARTMENT SHOULD BE CONSULTED PRIOR TO INSTALLATION. ANY DISCREPANCIES BETWEEN CONSTRUCTION DOCUMENTS AND SIEMENS/MED-LAB DOCUMENTS HAVE TO BE BROUGHT UP TO MED-LAB'S ATTENTION. WE NEED NOTIFICATION OF ALL CHANGES. MED-LAB DOCUMENTS SHOULD BE INCORPORATED INTO THE CONSTRUCTION DOCUMENTS FOR REFERENCE.

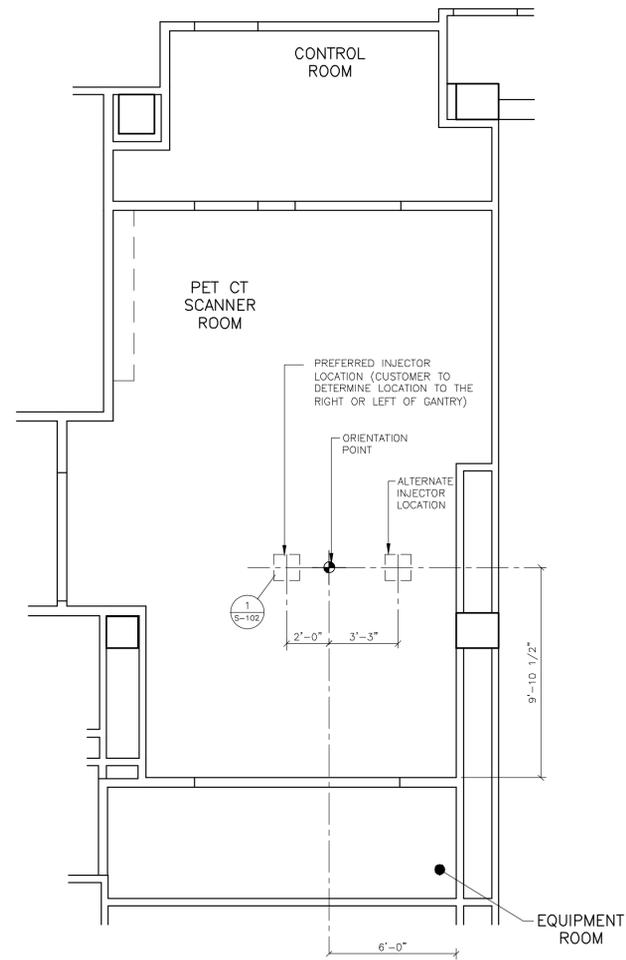
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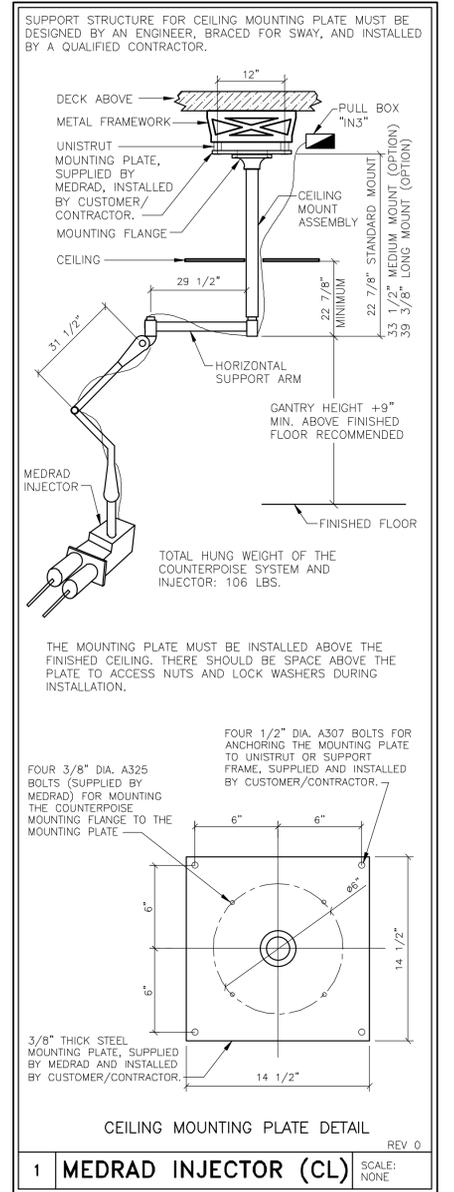
SYM	DATE	DESCRIPTION
△	03/09/15	PLANS PER APPROVED ORDER # 110088 WITH 10/15/14 (WITH CHANGES) BASED ON SALES ORDER
-ISSUE BLOCK-		

DATE: 03/09/15	DRAWN BY: M. SERGOT
----------------	---------------------

BIOGRAPH mCT FLOW/BIOGRAPH mCT
REV. 3



NOTE: FOR THE WEIGHTS OF ALL SIEMENS EQUIPMENT SHOWN ON THIS PLAN, SEE THE "EQUIPMENT LEGEND" ON SHEET A-101.



CEILING MOUNTING PLATE DETAIL
REV. 0
1 MEDRAD INJECTOR (CL) SCALE: NONE

STRUCTURAL CEILING PLAN

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

FINISHED ROOM HEIGHT	
FOR BIOGRAPH mCT GANTRY ONLY	RECOMMEND 8'-0" MINIMUM 7'-5"
CAREVISION MONITOR/CEILING MOUNT	MIN. 8'-7 1/2" MAX. 11'-2 5/8"
CEILING MOUNT INJECTOR	MINIMUM 8'-9 1/2"

SYM	DATE	DESCRIPTION
△	03/09/15	PLANS PER APPROVED UOIF # 11008 W/10/15/14 (WITH CHANGES) BASED ON SALES ORDER

PROJECT MANAGER: EMMANUEL GARCIA
 TEL: (305) 546-6062 EXT:
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BRUCE W. CARTER VAMC MIAMI
 1201 NW 16 AVE, MIAMI, FL 33125
 PETCT - BIOGRAPH mCT.S/X 128

PROJECT #: **1100116** SHEET: **S-102**

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SCALE: AS NOTED REF. # 30158795 DATE: 03/09/15

SHEET 4 OF 10 DRAWN BY: M. SERGOT

ATTENTION:

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REFERENCE DOCUMENT - NOT FOR CONSTRUCTION

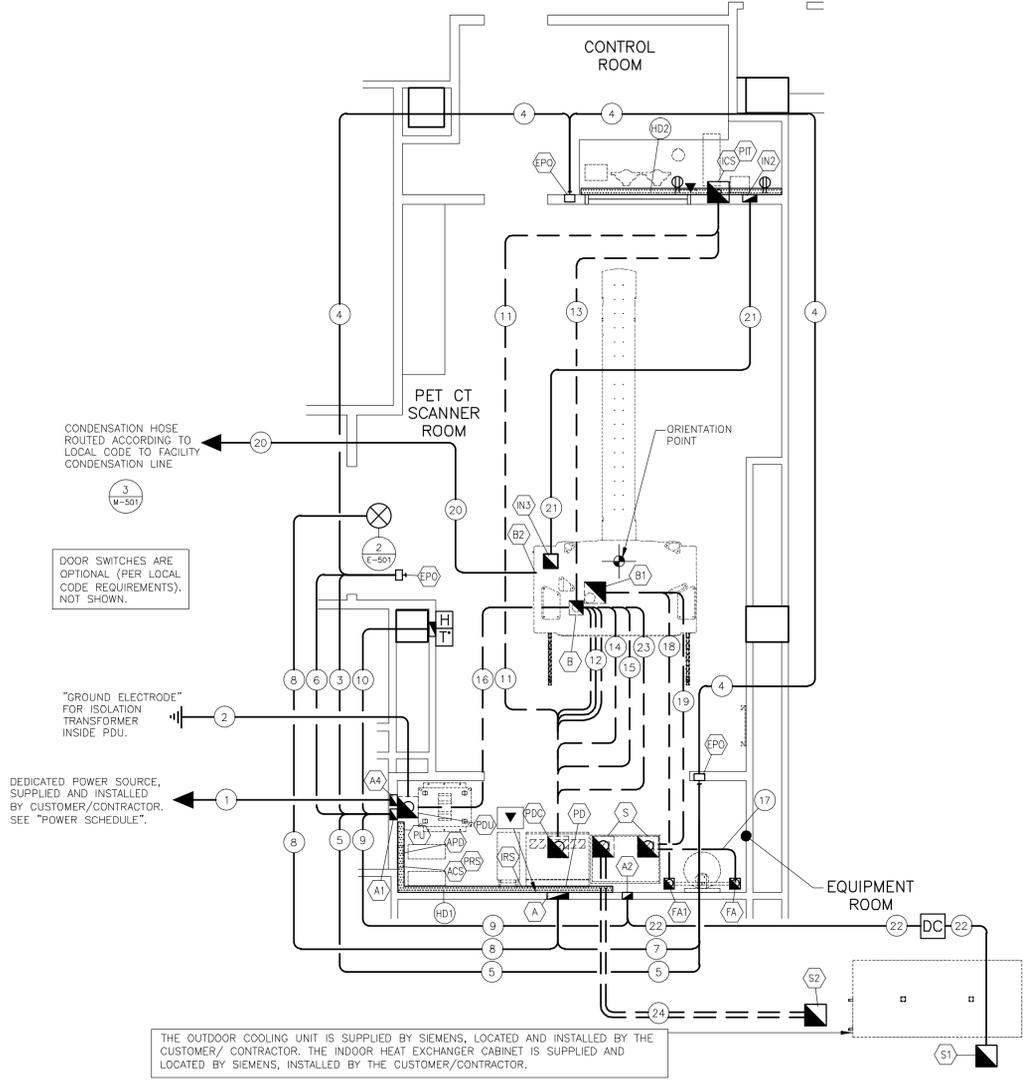
REFERENCE DOCUMENT - NOT FOR CONSTRUCTION

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 TROUGHS, PULL BOXES, CONDUITS, CIRCUIT BREAKERS, EMERGENCY OFF BUTTONS, DOOR SWITCHES, WARNING LIGHTS, WIRING DEVICES, CONNECTORS, LIGHTING EQUIPMENT AND WIRING.
- 5) 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 348-10 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 WALL, FITTING, OR OTHER ENCLOSURE, AN INSULATING 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 WELLS TO 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 ENCLOSED METAL RACEWAY WITH ACCESSIBLE REMOVABLE COVERS. LOCATIONS OF OPENINGS (I.E. ACCESS PANELS) 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. 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 INSTALL TEAM PULL SIEMENS SUPPLIED CABLES AT CUSTOMER 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 90 DEGREE ELBOW OR TEE IN WIRE 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 INSTALL TEAM PULL SIEMENS SUPPLIED CABLES AT CUSTOMER EXPENSE. 6) WIRING: WIRING SHALL BE INSTALLED IN METAL RACEWAY, 600 VOLT CLASS, STRANDED TYPE THIN-WALL, 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 WITHSTANDING 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.

ELECTRICAL LEGEND

SYM	SIZE	DESCRIPTION	REMARKS
SUPPLIED AND INSTALLED BY CUSTOMER/CONTRACTOR			
AS REQUIRED		PULL BOX MOUNTED FLUSH WITH FINISHED WALL AT FLOOR LINE IN SHOWN LOCATION.	ANCILLARY WIRING
AS REQUIRED		PULL BOX MOUNTED FLUSH WITH FINISHED WALL AT FLOOR LINE IN SHOWN LOCATION.	PDU WIRING
AS REQUIRED		PULL BOX MOUNTED FLUSH WITH FINISHED WALL AT FLOOR LINE IN SHOWN LOCATION.	HEAT EXCHANGER CABINET-WATER/AIR SPLIT
AS REQUIRED		PULL BOX MOUNTED FLUSH WITH FINISHED WALL AT FLOOR LINE IN SHOWN LOCATION. CONNECT 6 FOOT LONG FLEXIBLE WHIP OR WHIPS TO PULL BOX FOR TERMINATION AT THE POWER DISTRIBUTION UNIT (PDU). REFER TO THE POWER SCHEDULE.	DIRECT POWER FEED TO THE POWER DISTRIBUTION UNIT (PDU)
12" x 4"		OPENING IN RACEWAY "HD1" TO BE FIELD LOCATED.	PET ACQUISITION SYSTEM
---		POWER CONNECTION TERMINAL FOR ACS/PRS WITH (1) 208/220/240 L6-20R RECEPTACLE SUPPLIED WITH THE ACS/PRS.	POWER DISTRIBUTION FOR ACS/PRS.
AS REQUIRED		PULL BOX MOUNTED BELOW FLOOR SLAB WITH A 5/8" SLEEVE RUNNING THROUGH FLOOR SLAB ENDING FLUSH WITH FINISHED FLOOR IN SHOWN LOCATION.	GANTRY CABLE ACCESS SEE SHEET E-501.
AS REQUIRED		PULL BOX MOUNTED BELOW FLOOR SLAB WITH A 6" SLEEVE RUNNING THROUGH FLOOR SLAB ENDING FLUSH WITH FINISHED FLOOR IN SHOWN LOCATION.	WATER HOSES ACCESS SEE SHEET E-501 & M-101
---		LOCATION OF CONDENSING LINE COMING OUT OF THE GANTRY	CONDENSING HOSE ACCESS SEE SHEET M-501 & M-101
---		DISCONNECT SWITCH MOUNTED NEAR OUTDOOR UNIT TO DISCONNECT POWER SUPPLY FROM INDOOR UNIT. SUPPLIED BY SIEMENS. INSTALLED BY CUSTOMER/CONTRACTOR IN ACCORDANCE WITH LOCAL CODES.	OUTDOOR UNIT-WATER/AIR SPLIT
---		EMERGENCY POWER OFF BUTTON THAT PREVENTS RESETTING OF CIRCUIT BREAKER WHEN IN THE OFF POSITION WITH PROTECTIVE COVER. MOUNTED ON WALL AT 5'-0" ABOVE FINISH FLOOR. 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 BELOW FLOOR SLAB WITH 4" SLEEVE RUNNING THROUGH FLOOR SLAB ENDING FLUSH WITH FINISHED FLOOR IN SHOWN LOCATION.	ON SITE CONNECTION TO FILTER ASSEMBLY SEE SHEET M-101
AS REQUIRED		PULL BOX MOUNTED BELOW FLOOR SLAB WITH 4" SLEEVE RUNNING THROUGH FLOOR SLAB ENDING FLUSH WITH FINISHED FLOOR IN SHOWN LOCATION.	SUPPLY WATER HOSE TO GANTRY SEE SHEET M-101
AS REQUIRED		PULL BOX MOUNTED BELOW FLOOR SLAB WITH TWO 3/8" SLEEVES RUNNING THROUGH FLOOR SLAB ENDING FLUSH WITH FINISHED FLOOR UNDERNEATH "HD2" (PROVIDE FULL CLEAR ACCESS INTO "HD2").	IMAGE CONSTRUCTION SYS.
AS REQUIRED		PULL BOX MOUNTED FLUSH WITH FINISHED WALL IN CONTROL AREA. EXACT LOCATION TO BE COORDINATED WITH SIEMENS PROJECT MANAGER.	INJECTOR ELECTRONICS
AS REQUIRED		PULL BOX MOUNTED ABOVE FINISHED CEILING IN ARE OF INJECTOR SUSPENSION (SEE DETAIL 1/S-102).	CEILING MTD. INJECTOR
8" x 4"		OPENING IN RACEWAY "HD1" TO BE FIELD LOCATED.	IMAGE RECONSTRUCTION CAB.
12" x 5"		OPENING IN RACEWAY TO BE FIELD LOCATED.	POWER DISTRIBUTION CAB.
AS REQUIRED		PULL BOX MOUNTED BELOW FLOOR SLAB WITH 6" SLEEVE RUNNING THROUGH FLOOR SLAB ENDING FLUSH WITH FINISHED FLOOR IN SHOWN LOCATION.	POWER DISTRIBUTION CAB.
AS REQUIRED		PULL BOX MOUNTED BELOW FLOOR SLAB WITH 6" SLEEVE RUNNING THROUGH FLOOR SLAB ENDING FLUSH WITH FINISHED FLOOR IN SHOWN LOCATION.	POWER DISTRIBUTION UNIT
12" x 5"		OPENING IN RACEWAY TO BE FIELD LOCATED.	POWER DISTRIBUTION UNIT
---		FIX POINT DESIGNATION, SAME OPENING AS ACS.	PET RECONSTRUCTION SYSTEM
AS REQUIRED		TWO PULL BOXES MOUNTED BELOW FLOOR SLAB WITH TWO 6" SLEEVES RUNNING THROUGH FLOOR SLAB ENDING FLUSH WITH FINISHED FLOOR IN SHOWN LOCATIONS.	HEAT EXCHANGER CABINET-WATER/AIR SPLIT
AS REQUIRED		PULL BOX THAT IS PROVIDED ON THE OUTDOOR COOLING UNIT.	OUTDOOR COOLING UNIT-WATER/AIR SPLIT
AS REQUIRED		PULL BOX MOUNTED ADJACENT TO OUTDOOR COOLING UNIT PROVIDED WITH FLEX-TITE CONDUIT FROM PULL BOX TO WATER HOSE CONNECTIONS ON OUTDOOR COOLING UNIT.	OUTDOOR COOLING UNIT-WATER/AIR SPLIT
AS REQUIRED		TEMPERATURE/HUMIDITY SENSORS SUPPLIED WITH POWER DISTRIBUTION UNIT.	
10" x 3 1/2"		ELECTRICAL DUCT TO RUN HORIZONTALLY ON THE WALL AT THE FLOOR LINE AND SURFACE MOUNTED ON FINISHED WALL AS SHOWN. DUCT TO BE DIVIDED INTO THREE SECTIONS: ONE 4" AND TWO 3" WITH METAL DIVIDERS.	RACEWAY
10" x 3 1/2"		ELECTRICAL DUCT TO RUN HORIZONTALLY ON THE WALL AT THE FLOOR LINE AND SURFACE MOUNTED ON FINISHED WALL AS SHOWN. DUCT TO BE DIVIDED INTO THREE SECTIONS: ONE 4" AND TWO 3" WITH METAL DIVIDERS.	RACEWAY
AS REQUIRED		CONDUIT FROM POWER SOURCE TO "A4" (PDU) SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
AS REQUIRED		CONDUITS FROM "PDU" TO "GROUND ELECTRODE" FOR ISOLATION TRANSFORMER INSIDE PDU, SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
AS REQUIRED		CONDUITS FROM "A1" ("PDU") TO "EPO" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
AS REQUIRED		CONDUIT FROM "EPO" TO "EPO" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
AS REQUIRED		CONDUIT FROM "A1" ("PDU") (COMP UPS INSIDE PDU) TO "EPO" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
AS REQUIRED		CONDUIT FROM "A1" ("PDU") (PPS UPS INSIDE PDU) TO "EPO" SIZED BY ELECTRICAL CONTRACTOR.	SEE POWER SCHEDULE
AS REQUIRED		CONDUIT FROM "EPO" TO "A" ("PDC") SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
AS REQUIRED		CONDUIT FROM "A" ("PDC") TO "WARNING LIGHT" (X-RAY ON).	SEE SHEET E-501
AS REQUIRED		CONDUIT FROM "A1" ("PDU") TO "A2" ("S") SIZED BY ELECTRICAL ENGINEER OF RECORD.	W/A SPLIT COOLING SYSTEM SEE POWER SCHEDULE
(1) 3/4"		CONDUIT FROM "A1" ("PDU") TO "T/H".	MAXIMUM CONDUIT LENGTH 90'-0"
(1) 2 1/2"		CONDUIT FROM "PDC" TO "ICS/PIT".	MAXIMUM CONDUIT LENGTH 72'-0"
(3) 3"		CONDUITS FROM "PDC" TO "B" WITH A MINIMUM 6" BENDING RADIUS.	MAXIMUM CONDUIT LENGTH 76'-0"
(1) 3"		CONDUIT FROM "B" TO "ICS/PIT".	MAXIMUM CONDUIT LENGTH 72'-0"
(1) 1 1/2"		CONDUIT FROM "B" TO "PDC" ("ACS").	MAXIMUM CONDUIT LENGTH 76'-0"
(1) 1 1/2"		CONDUIT FROM "B" TO "PDC" ("ACS").	MAXIMUM CONDUIT LENGTH 63'-0"
(1) 1 1/2"		CONDUIT FROM "PDU" TO "B".	MAXIMUM CONDUIT LENGTH 92'-0"
(1) 3 1/2"		CONDUIT FROM "S" TO "FA". TO CONTAIN SIEMENS WATER HOSES (SUPPLY & RETURN) WITH A MINIMUM 9" BENDING RADIUS.	MAXIMUM CONDUIT LENGTH 12'-0" W/A SPLIT COOLING SYSTEM SEE SHEET M-101
(1) 3 1/2"		CONDUIT FROM "FA1" TO "B1". TO CONTAIN SIEMENS WATER HOSES (SUPPLY & RETURN) WITH A MINIMUM 9" BENDING RADIUS.	MAXIMUM CONDUIT LENGTH 59'-0" W/A SPLIT COOLING SYSTEM SEE SHEET M-101
(1) 3 1/2"		CONDUIT FROM "B1" TO "S". TO CONTAIN SIEMENS WATER HOSES (SUPPLY & RETURN) WITH A MINIMUM 9" BENDING RADIUS.	MAXIMUM CONDUIT LENGTH 59'-0" W/A SPLIT COOLING SYSTEM SEE SHEET M-101
(1) 1"		CONDUIT, IF REQUIRED PER LOCAL CODE, FOR CONDENSATION HOSE FROM "B2" TO FACILITY CONDENSING LINE. THE MINIMUM BENDING RADIUS IS 1 3/16". MAXIMUM LENGTH OF HOSE: 32'-9".	
(1) 2 1/2"		CONDUIT FROM "IN2" TO "IN3". VERIFY LENGTH RESTRICTIONS WITH MANUFACTURER.	VERIFY W/MANUFACTURER
(1) 1 1/2"		CONDUIT FROM "A2" ("S") TO "DC" AND "DC" TO "S1".	MAXIMUM CONDUIT LENGTH 121'-0"
(1) 1 1/2"		CONDUIT FROM "PDC" ("S") TO "B".	MAXIMUM CONDUIT LENGTH 88'-0"
(2) 3"		CONDUITS, IF REQUIRED PER LOCAL CODE, FROM "S" TO "S2". THE MINIMUM BENDING RADIUS IS 12.5'.	MAXIMUM CONDUIT LENGTH 110'-0"



ELECTRICAL RACEWAY PLAN

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
	UNDER-FLOOR CONDUITS

CABLE SEPARATION

THIS ELECTRICAL RACEWAY PLAN DEPICTED IN THIS DRAWING IS PLANNED ACCORDING TO SIEMENS SYSTEM REQUIREMENTS AND UL CERTIFICATION OF THIS SYSTEM. ADDITIONAL SEPARATION OF THE SYSTEM CABLE SETS INTO SEPARATE OR PARTITIONED RACEWAYS UNLESS OTHERWISE NOTED IS NOT NECESSARY TO ENSURE SEPARATION OF CIRCUITS. INTERCONNECTING CABLE SETS ARE TESTED AS PART OF THE SYSTEM, AND ARE NOT CONSIDERED PREMISE WIRING.

THE CUSTOMER ASSUMES ALL RESPONSIBILITY AND LIABILITY FOR ANY ADDITIONAL SEPARATION REQUIREMENTS INCLUDING, BUT NOT LIMITED TO: DETERMINING THE NEED FOR ADDITIONAL SEPARATION AND DETERMINING ANY ADDITIONAL ITEMS NEEDED OTHER THAN THOSE IDENTIFIED ON THIS PLAN.

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 CONTRACTORS RESPONSIBILITY TO RECALCULATE THE MAXIMUM CONDUIT LENGTHS.

ASSUMED VALUES USED IN CALCULATING STATED MAXIMUM CONDUIT LENGTHS:

- VERTICAL DUCTS - 10'-0"
- FLOOR PENETRATIONS - 3'-0"

FINISHED ROOM HEIGHT

FOR BIOGRAPH mCT GANTRY ONLY	RECOMMEND 8'-0" MINIMUM 7'-5"
CAREVISION MONITOR/CEILING MOUNT	MIN. 8'-7 1/2" MAX. 11'-2 5/8"
CEILING MOUNT INJECTOR	MINIMUM 8'-9 1/2"

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

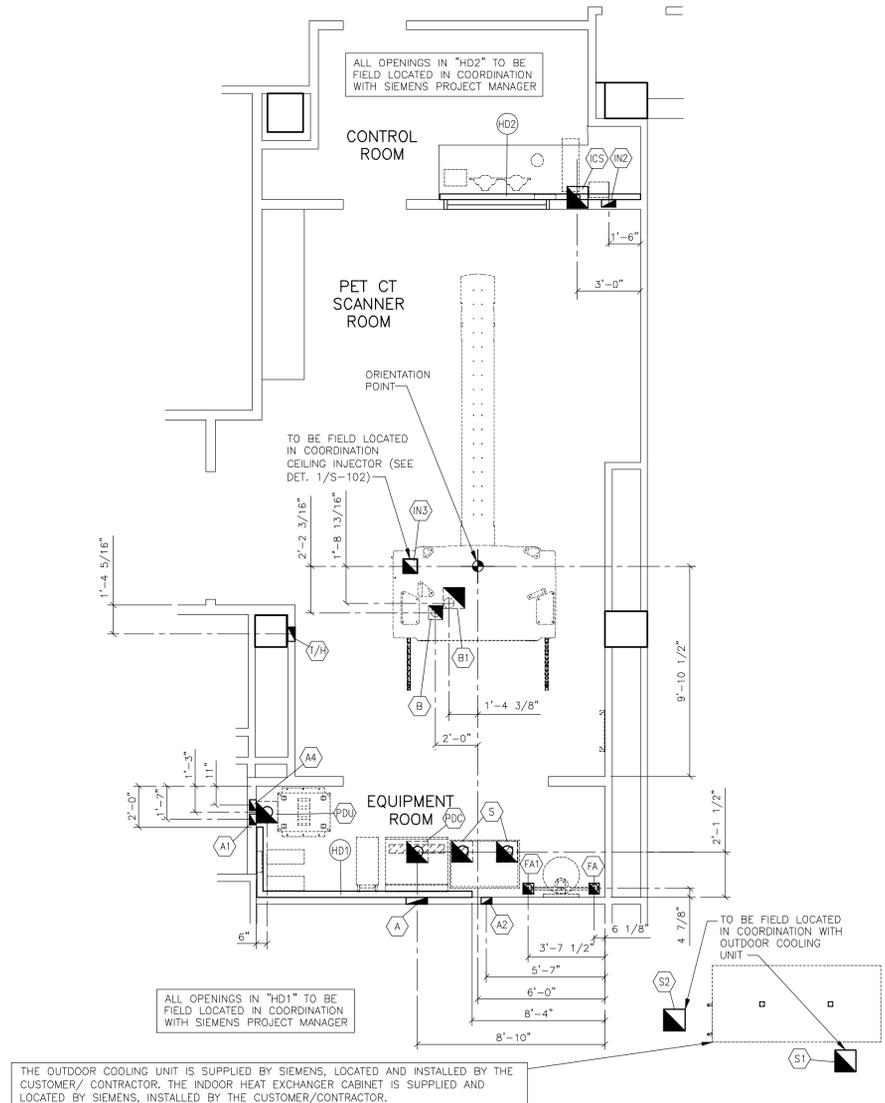
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BRUCE W. CARTER VAMC MIAMI		1201 NW 16 AVE, MIAMI, FL 33125 PETCT - BIOGRAPH mCT/S/X 128	
THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW.		PROJECT #: 1100116	SHEET: E-101
DATE: 03/09/15	DESCRIPTION: PWS PER APPROVED UNIT 4-10-08 WITH 10/15/14 (WITH CHANGES) BASED ON SALES ORDER	SHEET 6 OF 10	DRAWN BY: M. SERGOT
-ISSUE BLOCK-		DATE: 03/09/15	SCALE: AS NOTED
		REF. #:	30158795



ELECTRICAL DIMENSION PLAN

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

FINISHED ROOM HEIGHT	
FOR BIOGRAPH mCT GANTRY ONLY	RECOMMEND 8'-0" MINIMUM 7'-5"
CAREVISION MONITOR/CEILING MOUNT	MIN. 8'-7 1/2" MAX. 11'-2 5/8"
CEILING MOUNT INJECTOR	MINIMUM 8'-9 1/2"

SYM	DATE	DESCRIPTION
△	03/09/15	REVISIONS PER APPROVED UNIT # 1100116 WITH 10/15/14 (WITH CHANGES) BASED ON SALES ORDER
-ISSUE BLOCK-		

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BRUCE W. CARTER VAMC MIAMI
 1201 NW 16 AVE, MIAMI, FL 33125
 PETCT - BIOGRAPH mCT.S/X 128

PROJECT #: **1100116** SHEET: **E-102**

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.

SCALE: AS NOTED REF. # 30158795 DATE: 03/09/15

SHEET 7 OF 10 DRAWN BY: M. SERGOT

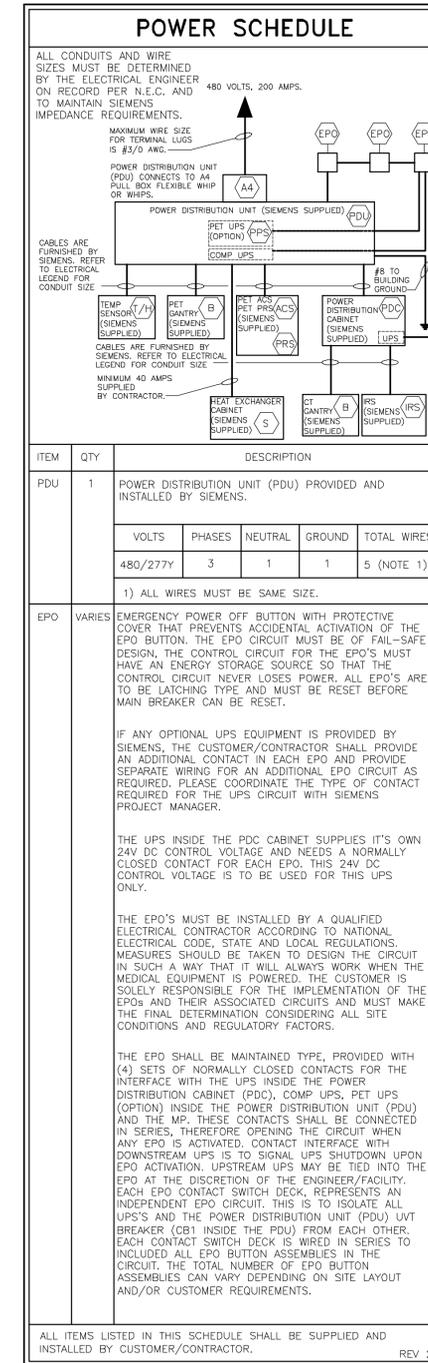
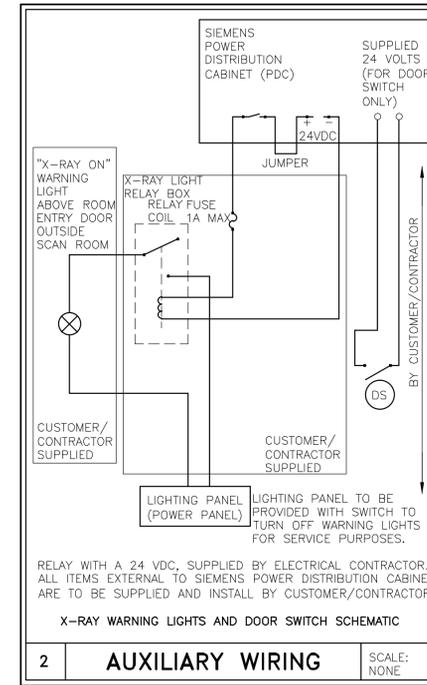
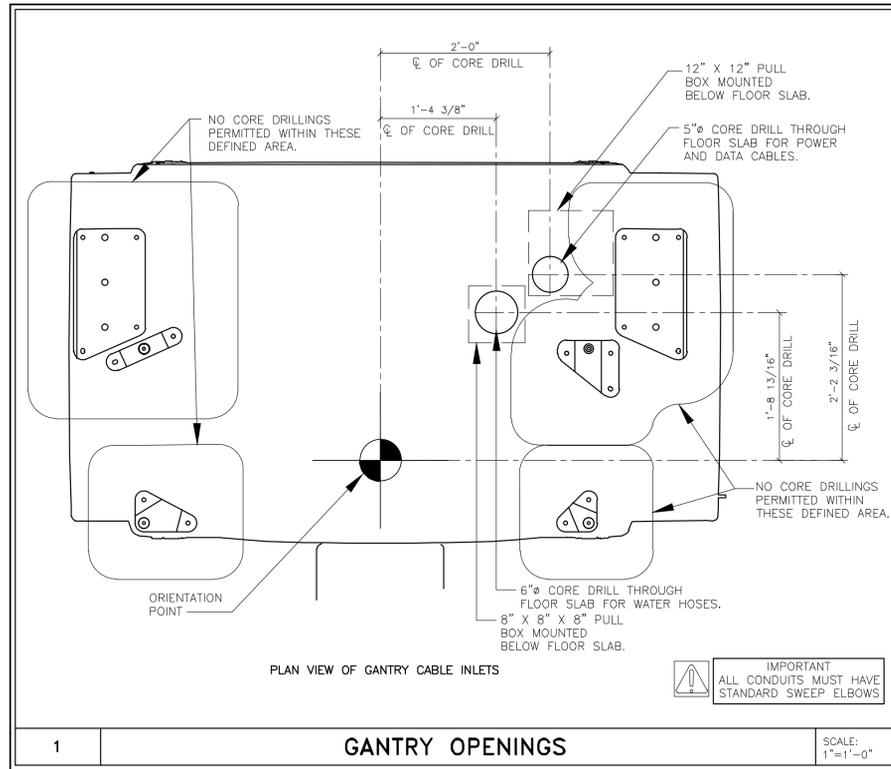
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BIOGRAPH mCT (BIOGRAPH) mCT REV. 3



FROM	VIA	TO	DESCRIPTION	REMARKS
PDU	A1,10	T/H	COMMUNICATION CABLE.	MAXIMUM LENGTH 98'-0".
PDC	11,HD2	ICS/PIT	POWER AND DATA CABLE.	MAXIMUM LENGTH 82'-0".
PDC	HD1	IRS	DATA CABLE.	MAXIMUM LENGTH 82'-0".
PD	HD1	PU	POWER CABLE.	MAXIMUM LENGTH 22'-0".
PD	HD1	ACS	DATA CABLE.	MAXIMUM LENGTH 22'-0".
PD	HD1	FRS	DATA CABLE.	MAXIMUM LENGTH 22'-0".
PD	HD1	HPC,ACS	DATA CABLE.	MAXIMUM LENGTH 22'-0".
PDC	12	B	POWER CABLE AND DATA CABLE.	MAXIMUM LENGTH 82'-0".
B	13	ICS/PIT	DATA CABLE.	MAXIMUM LENGTH 82'-0".
B	14,PDC,BASE, PD,HD1	IRS	DATA CABLE.	MAXIMUM LENGTH 82'-0".
B	15,PDC,BASE, PD,HD1	ACS	DATA CABLE.	MAXIMUM LENGTH 82'-0".
PDU	16	B	POWER CABLE.	MAXIMUM LENGTH 98'-0".
PU	HD1	PD	POWER CABLE.	MAXIMUM LENGTH 22'-0".
PU	HD1	APD	POWER CABLE.	MAXIMUM LENGTH 22'-0".
APD	LOOSE	ACS	POWER CABLE.	MAXIMUM LENGTH 3'-0".
APD	LOOSE	FRS	DATA CABLE.	MAXIMUM LENGTH 3'-0".
S	17	FA	WATER HOSE.	MAXIMUM LENGTH 16'-0".
FA1	18	B1	WATER HOSE.	MAXIMUM LENGTH 65'-0".
B1	19	S	WATER HOSE.	MAXIMUM LENGTH 65'-0".
B2	20	ON-SITE CONDENSATION LINE	CONDENSATION HOSE.	MAXIMUM LENGTH 32'-9".
IN2	21	IN3	INJECTOR CABLE.	STANDARD LENGTH 75'-0".
S	A2,22,DC,22	S1	POWER CABLE AND CONTROL CABLE.	MAXIMUM LENGTH 131'-0".
S	BASE,PDC,23	B	DATA CABLE.	MAXIMUM LENGTH 98'-0".
S	24	S2	WATER HOSES.	MAXIMUM LENGTH 119'-0".

FROM	VIA	TO	DESCRIPTION	REMARKS
POWER SOURCE	1,A4	PDU	3-PHASE CONDUCTORS, 1 NEUTRAL AND PLUS GROUND ALL TO BE THE SAME SIZE. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
PDU	2	GROUND ELECTRODE	1-#8 TO BUILDING GROUND. DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
PDU	A1,3	EPO	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
EPO	4	EPO	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
PDU/COMP UPS	A1,5	EPO	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
PPS/PDU	A1,6	EPO	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
EPO	7,A	PDC/UPS	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
PDC	A,8	WARNING LIGHT	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE DETAIL E-501
A1	9	A2	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	W/A SPLIT COOLING SYSTEM SEE POWER SCHEDULE

ATTENTION:

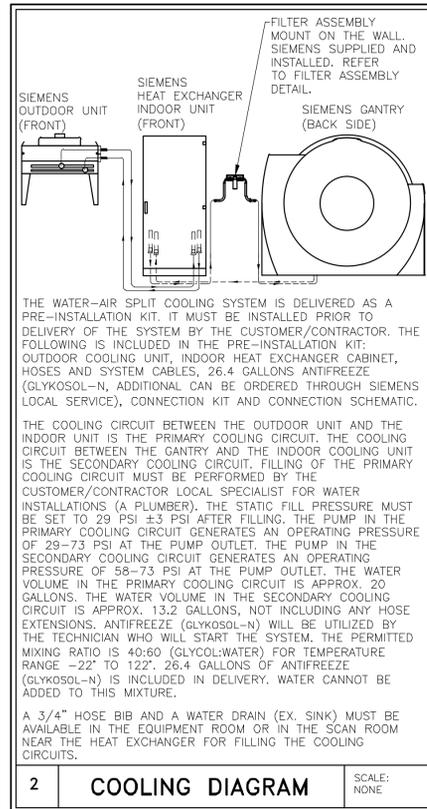
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PROJECT MANAGER: EMMANUEL GARCIA TEL: (305) 546-6062 FAX: EMAIL: emmanuel.garcia.ext@siemens.com		med-lab · SIEMENS	
BRUCE W. CARTER VAMC MIAMI 1201 NW 16 AVE, MIAMI, FL 33125 PETCT - BIOGRAPH mCT.S/X 128		PROJECT #: 1100116	
THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW.		SHEET: E-501	
DATE: 03/09/15	DESCRIPTION: PWS PER APPROVED UNIT # 110088 WITH 10/15/14 (WITH CHANGES) BASED ON SALES ORDER	SHEET 8 OF 10	DRAWN BY: M. SERGOT
-ISSUE BLOCK-		SCALE: AS NOTED	REF. # 30158795

REFERENCE DOCUMENT - NOT FOR CONSTRUCTION



TECHNICAL DATA		
	PRIMARY COOLING CIRCUIT	SECONDARY COOLING CIRCUIT
TEMPERATURE RANGE OF WATER	-13°F TO 136°F MAXIMUM	39°F TO 54°F
TEMPERATURE GRADIENT OF WATER	N/A	6 K/MINUTE
AMBIENT AIR TEMPERATURE RANGE (AIR INTAKE)	-22°F TO 122°F MAXIMUM	41°F TO 104°F
HEAT DISSIPATION	119,425 BTU/HR MAXIMUM TO THE AIR EXHAUST	5,123 BTU/HR TO ROOM AIR 51,228 BTU/HR TO WATER
RELATIVE HUMIDITY	0% TO 100%	15% TO 85%
BAROMETRIC PRESSURE	N/A	10.2 PSI TO 15.3 PSI
NOMINAL OPERATING PRESSURE	29 TO 73 PSI AT OUTPUT OF THE PUMP	58 PSI TO 73 PSI AFTER FILLING PROCEDURE
FILLING PRESSURE (STATIC)	29 PSI ± 2.9PSI AFTER FILLING PROCEDURE	29 PSI ± 3 PSI AFTER FILLING PROCEDURE
FILLING VOLUME	20 GALLONS WITHOUT HOSE EXTENSION	13.2 GALLONS WITHOUT HOSE EXTENSION

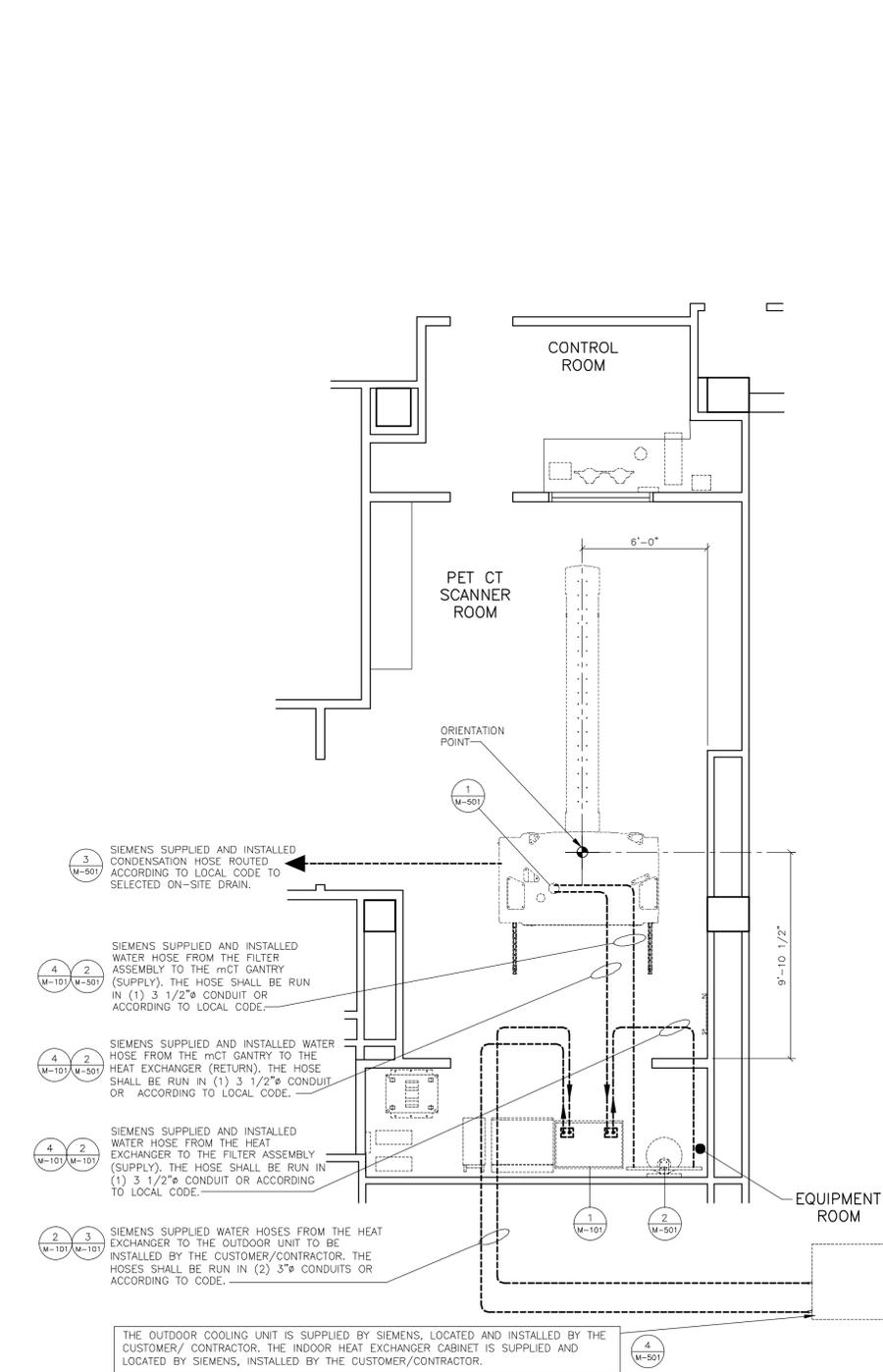
WATER QUALITY
POTABLE WATER QUALITY FOR BOTH THE PRIMARY AND SECONDARY CIRCUIT.

THE SECONDARY CIRCUIT REQUIRES THE FILTER ASSEMBLY FOR DESCRIPTION OF THE COMPONENTS PROVIDE BY SIEMENS AND CUSTOMER/CONTRACTOR SEE THE FILTER ASSEMBLY DETAIL.

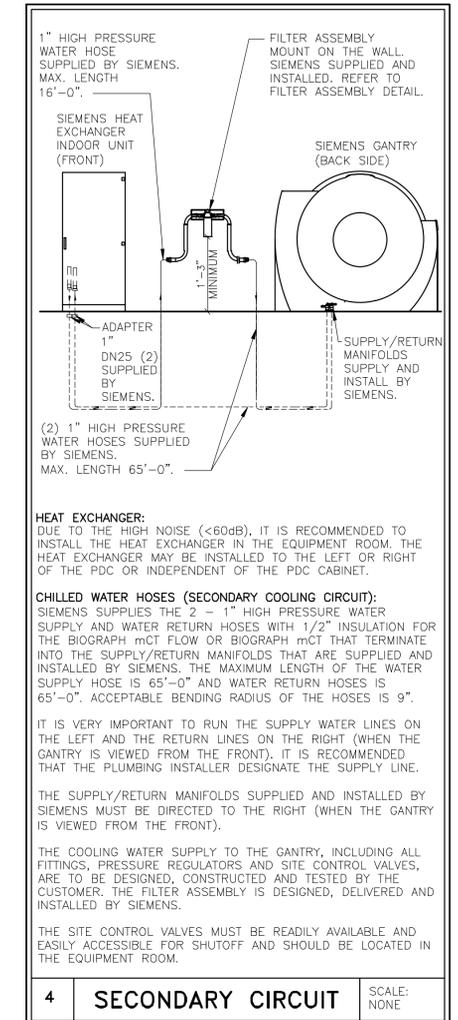
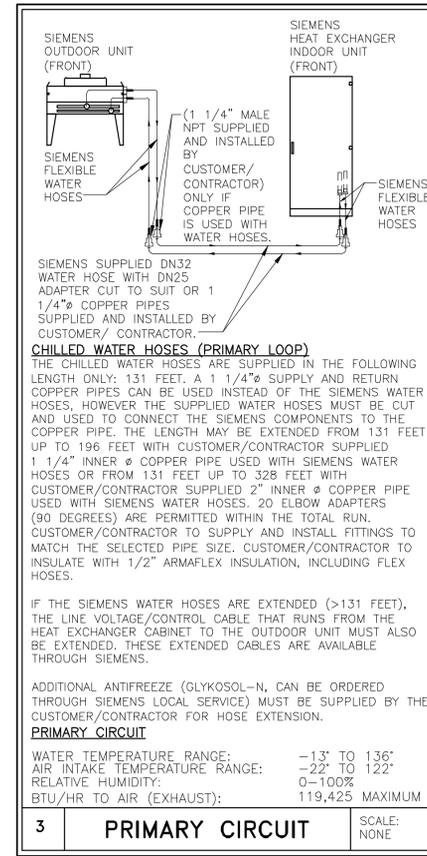
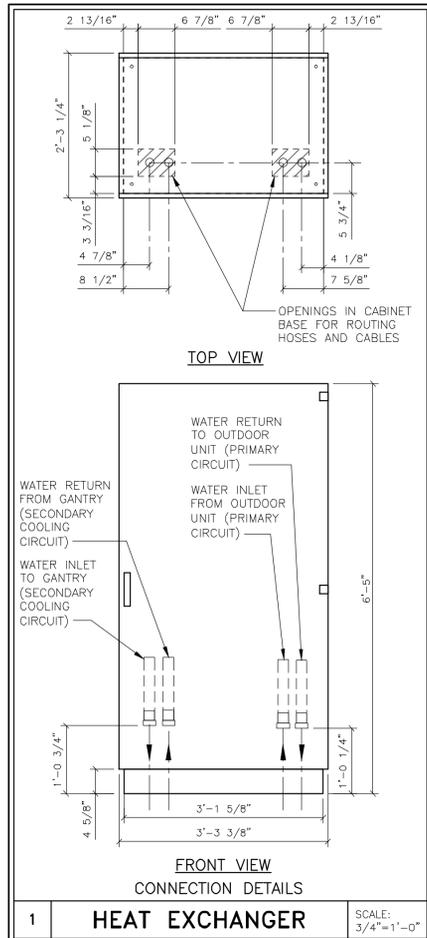
OPERATION WITHOUT WATER WILL DESTROY THE PUMP IN THE COOLING SYSTEM. FOR THIS REASON, THE PUMP OF THE SECONDARY COOLING CIRCUIT CAN BE OPERATED ONLY WHEN FILLED ACCORDINGLY.

ANTIFREEZE (GLYKOSOL-N)
ANTIFREEZE (GLYKOSOL-N) MAY BE ADDED TO THE PRIMARY COOLING CIRCUIT ONLY, BY THE TECHNICIAN WHO WILL START THE SYSTEM. THE PERMITTED MIXING RATIO IS 40:60 (GLYCOL:WATER) FOR TEMPERATURE RANGE -22° TO 122°F. 26.4 GALLONS OF ANTIFREEZE (GLYKOSOL-N) IS INCLUDED IN DELIVERY AND ADDITIONAL CAN BE ORDERED THROUGH SIEMENS LOCAL SERVICE. WATER CANNOT BE ADDED TO THIS MIXTURE.

ANTIFREEZE (GLYKOSOL-N) IS NOT PERMITTED ON THE SECONDARY CIRCUIT FOR THE BIOGRAPH mCT FLOW OR BIOGRAPH mCT COOLING CIRCUIT.



MECHANICAL PLAN



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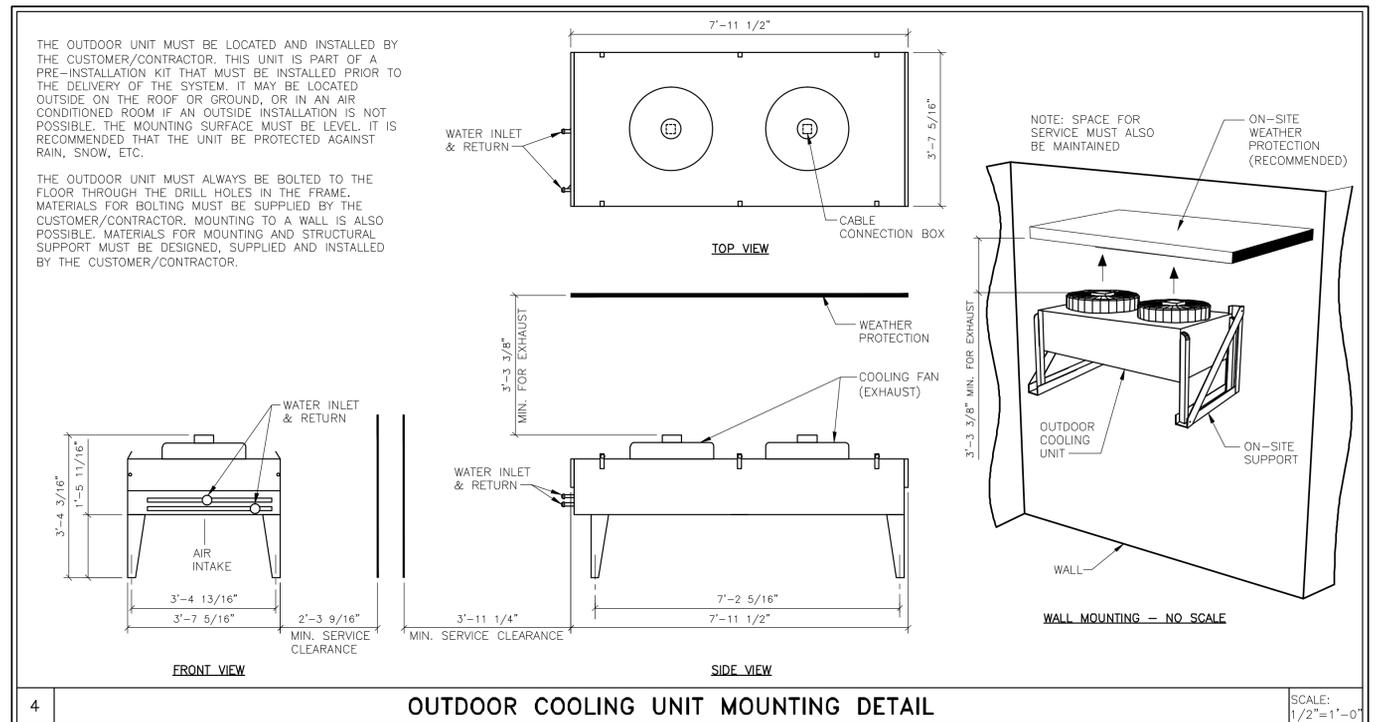
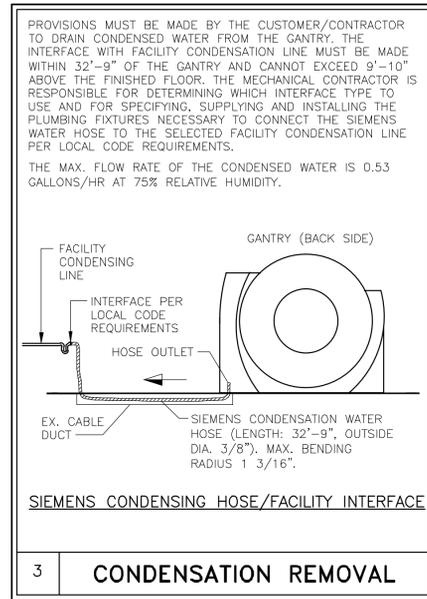
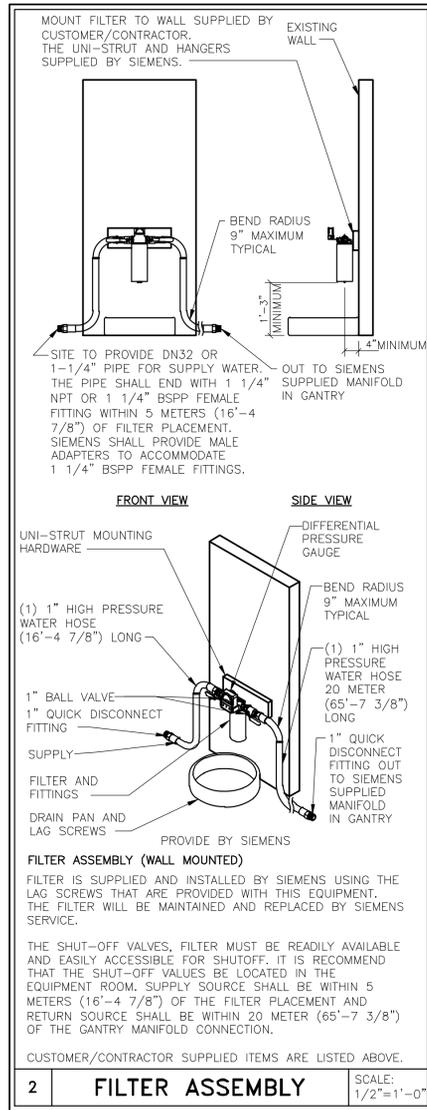
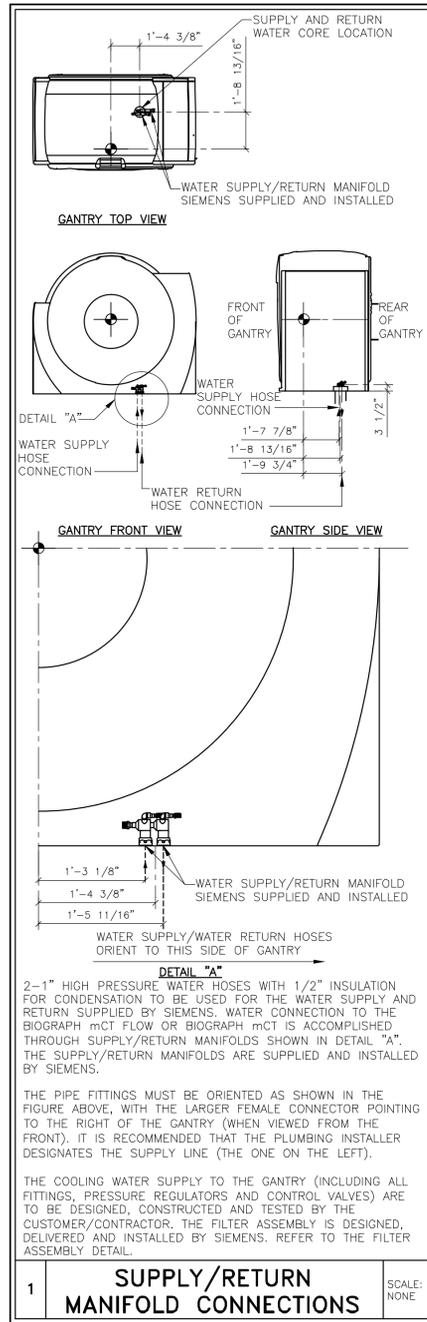
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FINISHED ROOM HEIGHT	
FOR BIOGRAPH mCT GANTRY ONLY	RECOMMEND 8'-0" MINIMUM 7'-5"
CAREVISION MONITOR/CEILING MOUNT	MIN. 8'-7 1/2" MAX. 11'-2 5/8"
CEILING MOUNT INJECTOR	MINIMUM 8'-9 1/2"

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SCALE: AS NOTED REF. # 30158795		DATE: 03/09/15	

SYM	DATE	DESCRIPTION
Δ	03/09/15	PLANS PER APPROVED UNIT # 110088 WITH 10/15/14 (WITH CHANGES) BASED ON SALES ORDER
-ISSUE BLOCK-		

03/09/15 11:00:00 AM REV. 3



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030914-01 (03/09/15) REV. 3