

CAD DWG DATE: 04-15-08 DRAWN BY: G.J. CHECKED BY: G.W. ECA 084233 REV. DATE: 11-20-08 REV. NO. 1 DWG. NO. 129387-489

ELECTRIC SUPPLY FROM DISTRIBUTION PANEL (PROVIDED BY OTHERS)

JUNCTION BOXES (SUPPLIED BY STERIS)

ELECTRICAL CONDUIT (NOT BY STERIS)

FINISHED CEILING

1. THE QUANTITY OF ELECTRICAL SERVICES REQUIRED FOR EMS UNITS IS DEPENDENT ON INDIVIDUAL DESIGN. CONSULT FACILITIES ENGINEER FOR REQUIREMENTS. CIRCUITS ARE DEDICATED SINGLE PHASE, 120VAC, 20AMP EACH. ONE DEDICATED GROUND LINE TO BE CONNECTED TO THE CHASSIS SCREW LOCATED ON THE BEARING PLATE. USE WIRING SUITABLE FOR AT LEAST 187°F (76°C) AND IN ACCORDANCE WITH NEC AND LOCAL CODE.

2. FOUR JUNCTION BOXES ARE PROVIDED WITH EACH EMS UNIT. REQUIREMENTS FOR LIGHTS (HARMONY LA OR LC) DEPEND ON THE APPLICATION. SEE THE APPROPRIATE HARMONY LIGHT EQUIPMENT DRAWINGS FOR ADDITIONAL REQUIREMENTS.

EMS CIRCUIT TYPE	AMP	QUANTITY
STANDARD NORMAL	20 AMP	
EMERGENCY NORMAL	20 AMP	
EMERGENCY ISOLATED	20 AMP	3
EMS BRUSHES	1 AMP	1
EMERGENCY	8 AMP	
POS MOTOR	20 AMP	
LOW VOLTAGE CIRCUIT TYPE		
AC FOR LIGHTS	10 AMP	
AC FOR MONITORS	20 AMP	

ALL DIMENSIONS ARE IN INCHES ALSO REFER TO GENERAL NOTES APPLICABLE TO EQUIPMENT DRAWINGS

STERIS
STERIS Corporation
Mentor, OH

ACCOUNT NAME: Maine Medical Center
ACCOUNT LOCATION: Portland, ME
FILE NAME: CATH LAB_Philips 70 Lite with 40 Lite Column
PRINTED DATE: 8/13/2010 SHEET: 7 of 10

ELECTRICAL DETAILS

Cath Lab
Harmony EMS 70° Dbl Fixed Arm with 40° Lite Column

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MALE D.I.S.S. FITTING W/CAP

COPPER TUBE

SUPPORT HANGERS (PROVIDED BY OTHERS)

DETAIL-A GAS RISER (PROVIDED BY STERIS)

3.50" TO 4.50"

FINISHED CEILING

9.00"

6.0" TYP

BRACKET, GAS RISER (PROVIDED BY STERIS)

Ø.38 HOLES FOR THREADED ROD HANGERS

TYPE	MAXIMUM	RECOMMENDED	QUANTITY
CO ₂	150 PSIG	50-85 PSIG	
N ₂	150 PSIG	150-185 PSIG	
O ₂	150 PSIG	50-85 PSIG	
MED AIR	150 PSIG	50-85 PSIG	
N ₂ O	150 PSIG	50-85 PSIG	
VAC	20 IN. HG.	13-16 IN. HG.	2
INSTRUMENT AIR	150 PSIG	150-185 PSIG	

VIEW A-A

26.00"

4.00"

1. EMS UNIT REQUIRES MEDICAL GAS SUPPLY SERVICES AS SPECIFIED BY THE CUSTOMER. SUPPLY SERVICE CONNECTIONS (GAS PIPETTES OR RISERS, COPPER TUBE WITH MALE DISS CONNECTION ON ONE END) ABOVE THE FINISHED CEILING. ALL CONNECTIONS SHALL BE IN ACCORDANCE WITH NFPA 99 AND LOCAL CODES.

2. CLEARANCE OF 6" (152mm) IS REQUIRED ABOVE STRUCTURAL MOUNTING PLATE FOR GAS SUPPLY HOOK-UP.

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GAS DETAILS

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COMPRESSED AIR BRAKE SUPPLY (NOT PROVIDED BY STERIS)

1/8" NPT FITTING (PROVIDED BY STERIS)

FINISHED CEILING

AIR LINE TUBING (PROVIDED BY STERIS)

PNEUMATIC BRAKES:

- REQUIRE CLEAN, DRY AIR (REF: ANSI / ISA 7.0.01)
- PRESSURE REGULATED AT 60 TO 80 PSI (414-552 KPA)
- BRAKE PRESSURE REGULATOR NOT PROVIDED BY STERIS
- CONSUMES APPROXIMATELY 3 CUBIC INCHES (49cc) OF AIR PER ACTIVATION
- GAS RISER NOT PROVIDED BY STERIS
- STERIS BRAKE LINE TERMINATES WITH 1/8 NPT FEMALE FITTING
- CUSTOMER SUPPLY LINE MUST TERMINATE WITH 1/8 NPT FEMALE FITTING NOT PROVIDED BY STERIS
- IMPORTANT: MEDICAL GASES SUCH AS OXYGEN, NITROUS OXIDE, MEDICAL AIR, AND CARBON DIOXIDE ARE NOT ACCEPTABLE SOURCES FOR SUPPLYING PNEUMATIC BRAKES

ACCEPTABLE SOURCES FOR SUPPLYING THE PNEUMATIC BRAKES:

- STERIS RECOMMENDS USING COMPRESSED AIR OR INSTRUMENT AIR TO SUPPLY THE PNEUMATIC BRAKES

COMPRESSED AIR:

- RECOMMEND INSTALLING AN OIL-WATER SEPARATOR NOT PROVIDED BY STERIS CORPORATION

INSTRUMENT AIR:

- APPROVED FOR SUPPLYING THE PNEUMATIC BRAKES

NITROGEN:

- CAN BE USED TO SUPPLY THE PNEUMATIC BRAKES, BUT NOT RECOMMENDED
- MUST CONSULT THE LOCAL INSPECTOR TO GAIN APPROVAL PRIOR TO INSTALLATION
- USING NITROGEN TO SUPPLY THE PNEUMATIC BRAKES WILL GRADUALLY DEplete YOUR NITROGEN STORAGE LEVELS OVER TIME.

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AIR REQUIREMENTS PNEUMATIC BRAKE

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PLAN VIEW FROM ABOVE CEILING

ACCESS PANEL 24" X 24" ONLY 1 REQUIRED (NOT PROVIDED BY STERIS)

CEILING ACCESS PANEL LOCATED TO EITHER SIDE OF GAS RISER FOR GREATEST ACCESSIBILITY TO UTILITY CONNECTIONS

ROUGH OPENING CENTERED ON SUPPORT STRUCTURE BOLT CIRCLE

Ø23"

BOLT CIRCLE

EMS ROUGH OPENING IN CEILING SUPPORT STRUCTURE

9 MAX TYP.

POSSIBLE ALTERNATIVE LOCATION FOR ACCESS PANEL

ELECTRICAL SUPPLY JUNCTION BOXES

GAS RISER

SUPPORT STRUCTURE

CEILING FLANGE

FINISHED CEILING WITH ROUGH OPENING

CANOPY HOOD OR FLUSH COVER

1. TWO OPENINGS IN THE FINISHED CEILING ARE REQUIRED: ONE ROUGH OPENING FOR THE INSTALLATION OF EMS UNIT - CENTERED UNDER THE SUPPORT STRUCTURE BOLT HOLE PATTERN ONE 24x24 CEILING SERVICE ACCESS PANEL

2. A 23x23 SQUARE ROUGH OPENING MAY BE USED FOR THE EMS UNIT HOWEVER THIS GREATLY REDUCES THE ALLOWABLE MARGIN OF ERROR WHEN ALIGNING THE HOLE WITH THE SUPPORT STRUCTURE BOLT HOLE PATTERN.

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CEILING ACCESS REQUIREMENTS

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

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PROJECT NORTH

MAINE MEDICAL CENTER CATH. LAB #5
PORTLAND, ME

ISSUED FOR CONSTRUCTION
9.3.10

NO.	ISSUED FOR CONSTRUCTION	DATE
0		9.3.10

GRAPHIC SCALE:
0" 1"

SCALE:
PROJECT MANAGER: RD
IC/DRAWN BY:
A/E OF RECORD:
PROJECT NO: 10006-00
DATE: 9.3.10

SHEET TITLE:
VENDOR EQUIPMENT DRAWINGS, SHEET 10

SHEET No. Q-010