MERRY X-RAY CORPORATION

Site Planning Guide For:

CareSpot Lee Vista Center Orlando, FL.
Summit 32kw Radiographic System

Table of Contents

Dwg No. 1811-85-A

Please Direct all Questions to:
Roger Chamberlain - 815-568-0107
Roger.Chamberlain@merryxray.com

General Notes:

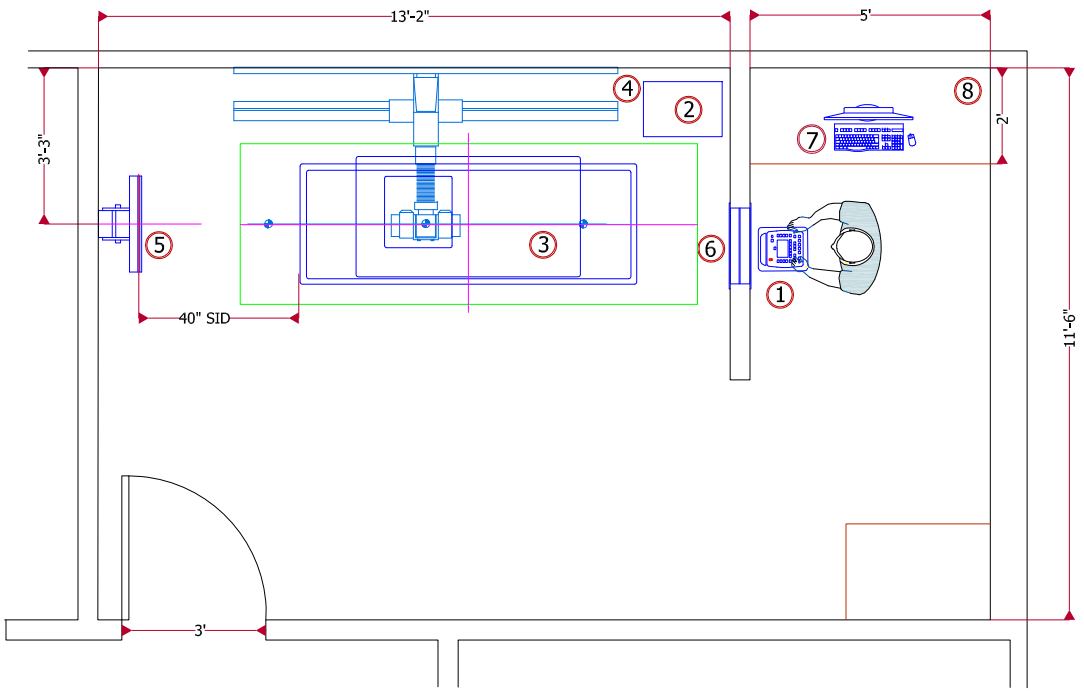
- MXR is only responsible for installation of imaging equipment purchased from MXR or equipment contracted to be relocated with MXR. All other construction and room preparation including networking connections are to be supplied by others.
- Customer and his General Contractor are responsible for all work in preparing the x-ray room and surrounding area and all costs involved.
- Customer and his Contractor are responsible for the cost and obtaining all professional fees, all permits including all building and electrical permits.
- Customer is responsible for obtaining lead shielding requirements from a licensed physicist and/or compliance with local and state regulations.
- Although room lighting is not specified on these plans it is the responsibility of the purchaser or his architect or electrical contractor to provide dimming lights in the x-ray room and control booth area.
- Ceiling height is indicated on these plans and must be as maintained as stated. If for any reason the minimum ceiling height is unobtainable it is the responsibility of the customer or his contractor to notify MXR Project Management.
- All dimensions are from finished surfaces unless otherwise noted.
- The purchaser at his expense, if required by state law to employ a registered physicist to certify x-ray system and room shielding.
- Any structural backing for equipment support shall be a minimum thickness of 2" wood secured to a minimum of three studs with the face of the backing flush with the line of the studs.
- All construction shall comply with all building codes that have jurisdiction.
- The purchaser, at his expense shall arrange to have furnished and installed any plumbing, wall, floor or ceiling reinforcing unistrut, electrical conduit, wire, main switches, panel boards, junction boxes and cover plates, bushings, wire or cable duct or trough specified or required for the satisfactory installation of the x-ray equipment.
- These drawings are supplied to suggest location of x-ray equipment and associated apparatus, electrical wiring details and room arrangements. In preparing these plans every effort has been made to conform details to the actual equipment expected to be installed. The prepairer of these plans cannot accept responsibility for any changes made to the equipment or the room or for any damages resulting therefrom. Actual construction drawings should be provided by the purchaser's architect or general contractor.
- MXR assumes no responsibility for any construction costs, whether or not related to the installation of any x-ray equipment. No work may be performed or any materials furnished at the expense of MXR without a prior authorized, signed purchase order. Equipment listed on Sales quote supersedes the Equipment listed on the Equipment Legend on these plans.

Site Readiness Requirements

The following general conditions are required prior to the delivery of equipment. The conditions will insure the best possible environment for the installation and protection of computers, electronics, x-ray tubes, image intensifiers, cameras, monitors and mechanical equipments. Please note if these conditions are not met at the time of delivery the Merry X-Ray Project Manager should reschedule the installation start date.

- All necessary approvals, permitting, shielding reviews, required by either state or local governing agencies will be the customer's responsibility. Some states will not allow the installation to begin without prior approval.
- Power available at the designated power cabinet prior to delivery of equipment.
- Walls to be sanded, primed and painted, floor covering installed, ceiling completed, doors hung with finish applied and lead barriers installed.
- HVAC complete, functioning properly and tested prior to equipment delivery.
- All vendor base plates, reinforcement plates and overhead grid installed as designated in Site Planning Guide. It will be the responsibility of the customers design engineer to furnish recommended methods of anchoring and attachment for applicable Merry X-Ray equipment.
- All cable troughs, junction boxes, conduits and raceways correctly sized and installed according to the provided Site Planning Guide. All lighting installed and functioning at the time of delivery. **ALL FLUSH MOUNTED J-BOXES SHOULD HAVE OVERSIZED COVERS.**
- Room and immediate vicinity to be dust free and remain so during the duration of the installation.
- Customer supplied PACS, processors, laser imagers, cameras, computers, printers, routers, networks and network drops are to be installed and verified operational prior to MXR installing image acquisition and processing hardware and software. Additionally, firewalls, backup power sources, virus software and other security software and hardware are the Customer's responsibility to acquire, install and maintain current. (Unless prior arrangements have been made for MXR to provide this equipment.) MXR will connect to customer installed network drops but assumes no responsibility for proper operation of Customer's network and associated hardware. It is strongly suggested that the Customer retain an IT person to be available for network related issues that may arise during its useful life. MXR is not responsible for computer malfunctions due to Customer or patient's unauthorized use or installation of computer programs for their personal use.
- MXR supplied servers are not allowed to have updates installed without MXR prior consent.
- Telephone service and VPN access must be installed and operational prior to installation for remote support.
- It will be the customer's responsibility to provide a clear and unobstructed pathway for delivery of diagnostic devices, to include room entry.

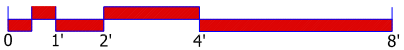
Removal of old equipment must be quoted by service. MXR does not dispose of transformers or tubes. Third party disposal service companies are available upon request.



EQUIPMENT LEGEND

FUTURE
EXISTING
INSTALLED BY CUSTOMER/CONTRACTOR
FURNISHED BY CUSTOMER/CONTRACTOR
INSTALLED BY MXR
FURNISHED BY MXR

ITEM	DESCRIPTION DIM: W X D X H	WT. (LBS)	BTU'S /HR	DETAIL
1	Summit MXR320S/32kw Generator Console DIM: 17" x 8.5" x 3.0"	6.0	120	
2	Summit MXR320S/32kw Power Module DIM: 20.5" x 17.5" x 37.5"	209	544	
3	Summit S223 4 Way FloatTop Table DIM: 84" x 30" x 31.5	555	120	D1
4	Summit S225 Floor-Wall Tubestand DIM: 96" x 45" x 92"	352	873	D2
5	Summit S109 Vertical Wallstand DIM: 25" x 12" x 86"	178	N/A	D1
6	Lead Window - Size Determined by Customer	N/A	N/A	
7	Rayence DR Workstation	N/A	N/A	
8	Counter and/or Shelf designed to support Workstation PC/Monitor/KeyBd.			



Scale - 1/4" = 1'

Recommended Ceiling Height - 9'0"
Minimum Ceiling Height - 8'0"

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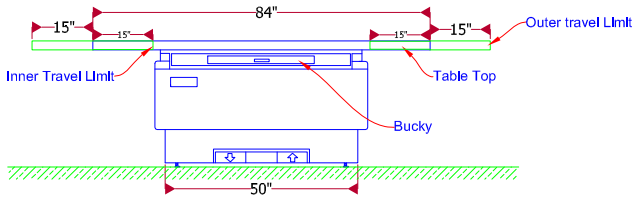
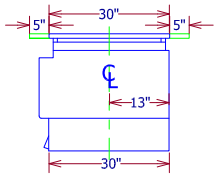
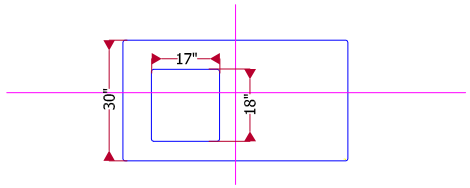
Summit S223 4-way, Float Top Table



S223 - Elevated View

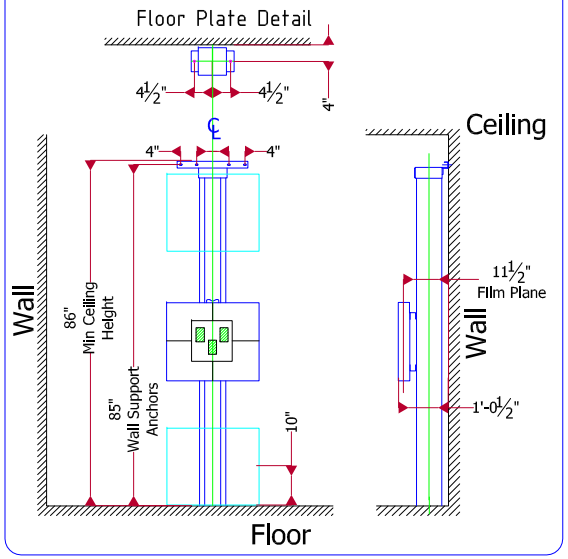


S223 - Side View



S223 - Base & Cable Access Area

Wallstand Detail:
S109, S107, 3546



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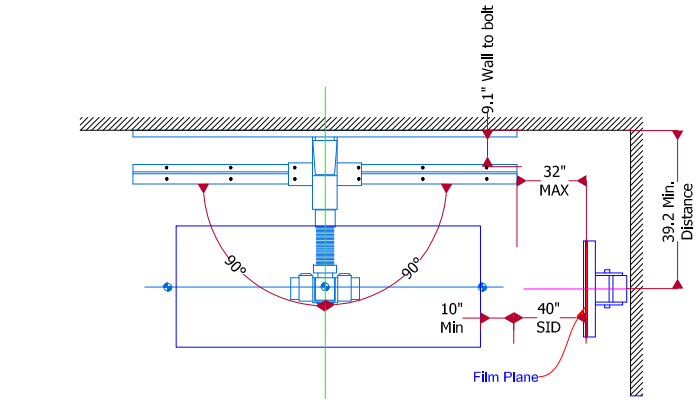
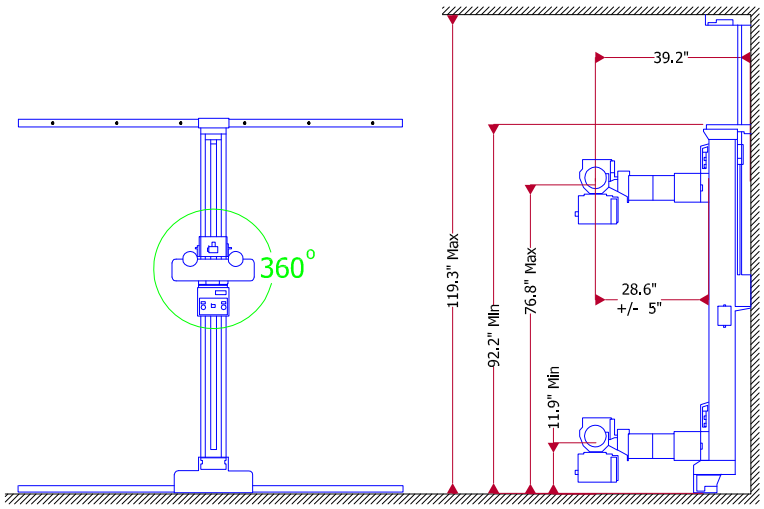
Rotating Tubestand - S225





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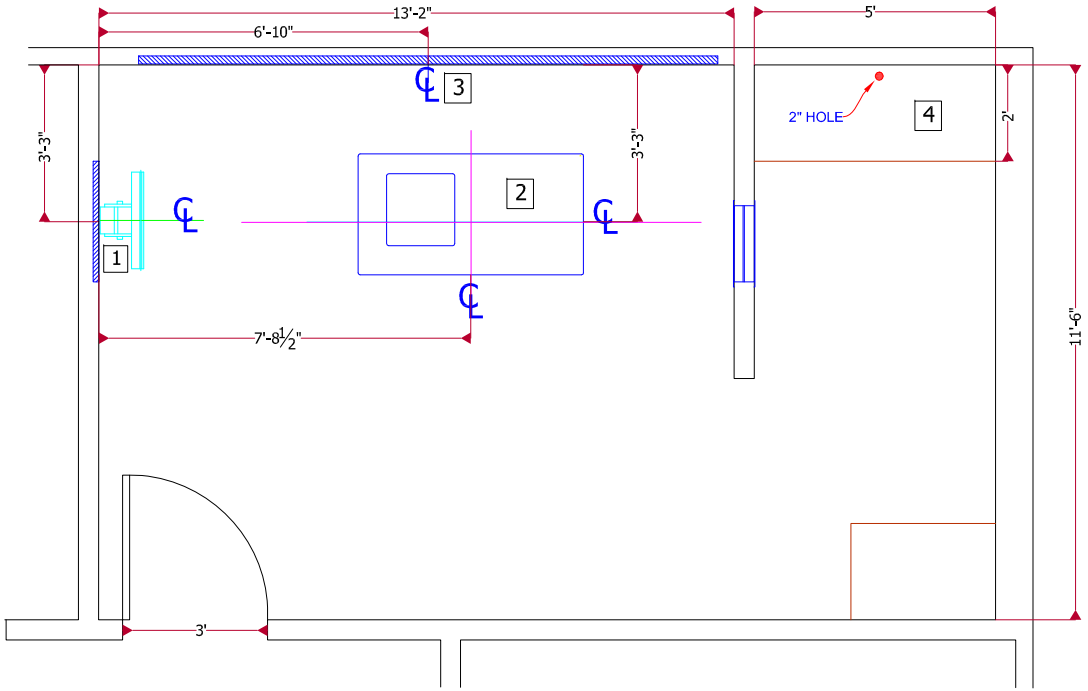
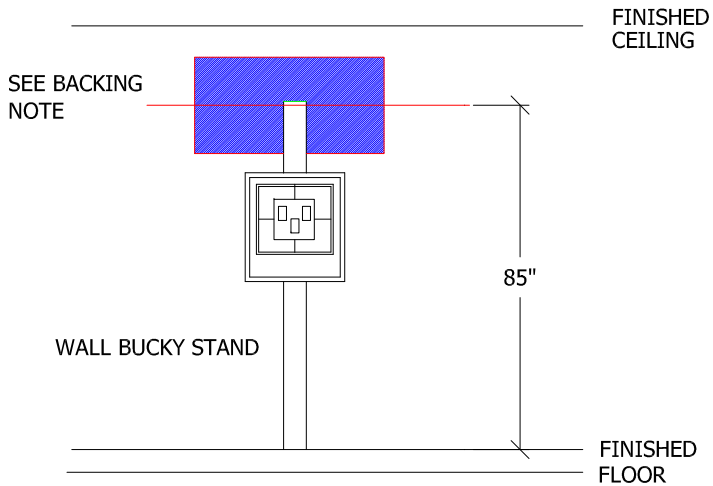
Structural Layout - Floor & Wall



STRUCTURAL SUPPORT LEGEND

FUTURE
EXISTING
INSTALLED BY CUSTOMER/CONTRACTOR
FURNISHED BY CUSTOMER/CONTRACTOR
INSTALLED BY MXR
FURNISHED BY MXR

ITEM	DESCRIPTION
1	Wall Mounting Support - Provide 2" x 8" Board behind finished sheet rock attached to at least 2 studs. Centered 85" AFF.
2	Summit Table Base location.
3	2" X 12" x 12' Board secured behind finished wall centered to 90" AFF. Horizontal Center of the board at location shown. If it is not possible to provide board behind finished wall, please surface mount and finish to match the wall.
4	Counter and/or Shelf designed to support Battery Charger & Workstation PC/Monitor/KeyBd.



ELEVATION VIEW

BACKING NOTE:
2" x 8" BOARD BACKING IN WALL MOUNTED TO AT LEAST 2 STUDS PER CUSTOMER ENGINEER'S SPECIFICATIONS. DRYWALL OR PLASTER OVER, PAINT TO MATCH ADJACENT WALL. TO SUPPORT 100 LBS. LATERAL PULL.

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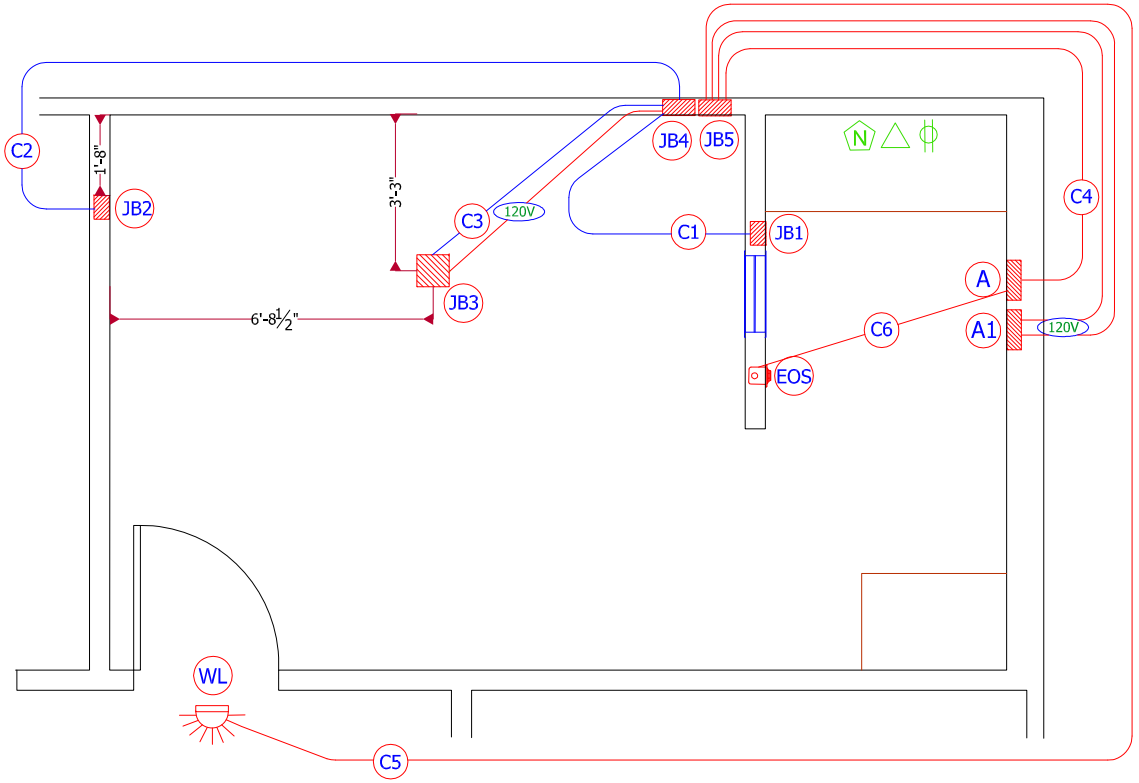
Note: All conduit runs should be as short as possible due to cable length limitations.
It is the responsibility of the EC to provide convenient outlets around the room.

CONDUIT REFERENCE:
RED LINES = HIGH VOLTAGE
BLUE LINES = LOW VOLTAGE



ELECTRICAL LEGEND

FUTURE
EXISTING
INSTALLED BY CUSTOMER/CONTRACTOR
FURNISHED BY CUSTOMER/CONTRACTOR
INSTALLED BY MXR
FURNISHED BY MXR

ITEM	DESCRIPTION
A	EXISTING BREAKER ENCLOSURE - 208-240VAC, 3 PHASE/SHUNT TRIP TYPE BASED ON SPECS ON SHEET E2, PROVIDE 6' SEALTIGHT WITH 18" PIGTAIL ON GENERATOR SIDE. RUN FROM "JB5" TO REAR OF GEN. CABINET, USING (2) 90 DEGREE ELBOWS. SEE SHEET E3 FOR MORE INFO.
A1	(2) - 120VAC/20A BREAKERS/DISCONNECTS,(44" AFF) FOR SUPPLY TO DESIGNATIONS: "JB5" AND "JB3"-LEAVE 6FT PIGTAIL AT JB SIDE. ELECTRICIAN TO DETERMINED BEST METHOD OF RUN ACCORDING TO LOCAL CODES.
JB1	8" X 8" JUNCTION BOX 18" AFF, PROVIDE- 2" CHASE NIPPLE IN THE CENTER OF COVER.
JB2	6 X 6" JUNCTION BOX-48" AFF, FLUSH WITH WALL, PROVIDE- 2" CHASE NIPPLE IN THE CENTER OF COVER.
JB3	8" X 8" JUNCTION BOX FLUSH MOUNTED IN FLOOR WITH 2" CHASE NIPPLE ON COVER. IF UNABLE TO FLUSH MOUNT JB, THEN A WIRE RACEWAY WILL NEED TO BE USED AS SHOWN ON SHEET E4.
JB4	8" x 8" x 4" JUNCTION BOX, 18" AFF. PROVIDE A 3" x 8" GROMMETED OPENING IN THE COVER.
JB5	8" x 8" x 4" JUNCTION BOX, 18" AFF. PROVIDE A 3" x 8" GROMMETED OPENING IN THE COVER.
C1	2" CONDUIT FROM "JB1" TO "JB4".
C2	2" CONDUIT FROM "JB2" TO "JB4".
C3	2" CONDUIT IN OR UNDER FLOOR, RUN FROM BOTTOM OF "JB4" TO "JB3".
C4	CONDUIT RUN FROM "A" TO "JB5" SIZE OF CONDUIT TO BE DETERMINED BY WIRE SIZE AS SPECIFIED ON SHEET E2.
C5	CONDUIT SIZE DEPENDING ON WIRE SIZE AS NEEDED FOR 120V RUN FROM "WL" TO "JB5".
C6	"EOS" TO BE CONNECTED TO BREAKER "A".
WL	X-RAY WARNING LIGHT, PULL 120VAC FROM LIGHT TO "JB5", LEAVE 8' PIGTAIL AT "JB5" SIDE. X-RAY GENERATOR WILL PROVIDE SWITCH.
EOS	EMERGENCY OFF SWITCH (SHUNT TRIP TYPE) TO BE CONNECTED TO THE "A" BREAKER AND SHOULD BE LOCATED NEAR CONTROL.

Provide the following for DR System:

- 120 VAC, 20 Amp, Dedicated Quad Outlet
- VPN Connection or Internet Access for Remote Diagnostics
- (N) Provide (2) RJ-45 Network Connection w/Cat. 6 Cable Outlet

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HVAC Requirement for General Equipment Locations

Heating, ventilation, air conditioning requirement for general equipment locations must maintain temperature at 72° +/- 15° Fahrenheit (22°+/- 5° Celsius) and non-condensing relative humidity at 45%, +/- 15%.

Summit MXR320 - 32KW Generator 3 Phase Power Line Requirements

Line Voltage	Recommended Dist. Transfmr.	Wire Size - Distance from Distribution Transformer to Breaker Panel "A"			Breaker Size	Wire Size "A" to "JB5" Max. 15'	Max. Line Impedance
Three Phase		50'	100'	200'			
208-240VAC	45kVa	#2	#00	250MCM	100A	#4	0.09 Ω
400VAC	45kVa	#6	#4	#1	100A	#6	0.27 Ω
480VAC	45kVa	#9	#6	#3	100A	#6	0.40 Ω

Electrical Contractor to supply appropriate size conductor for L1, L2, L3 and Gnd in appropriate size conduit from "A" Breaker Panel to "JB5" leave 8' pigtail on "JB5" side.

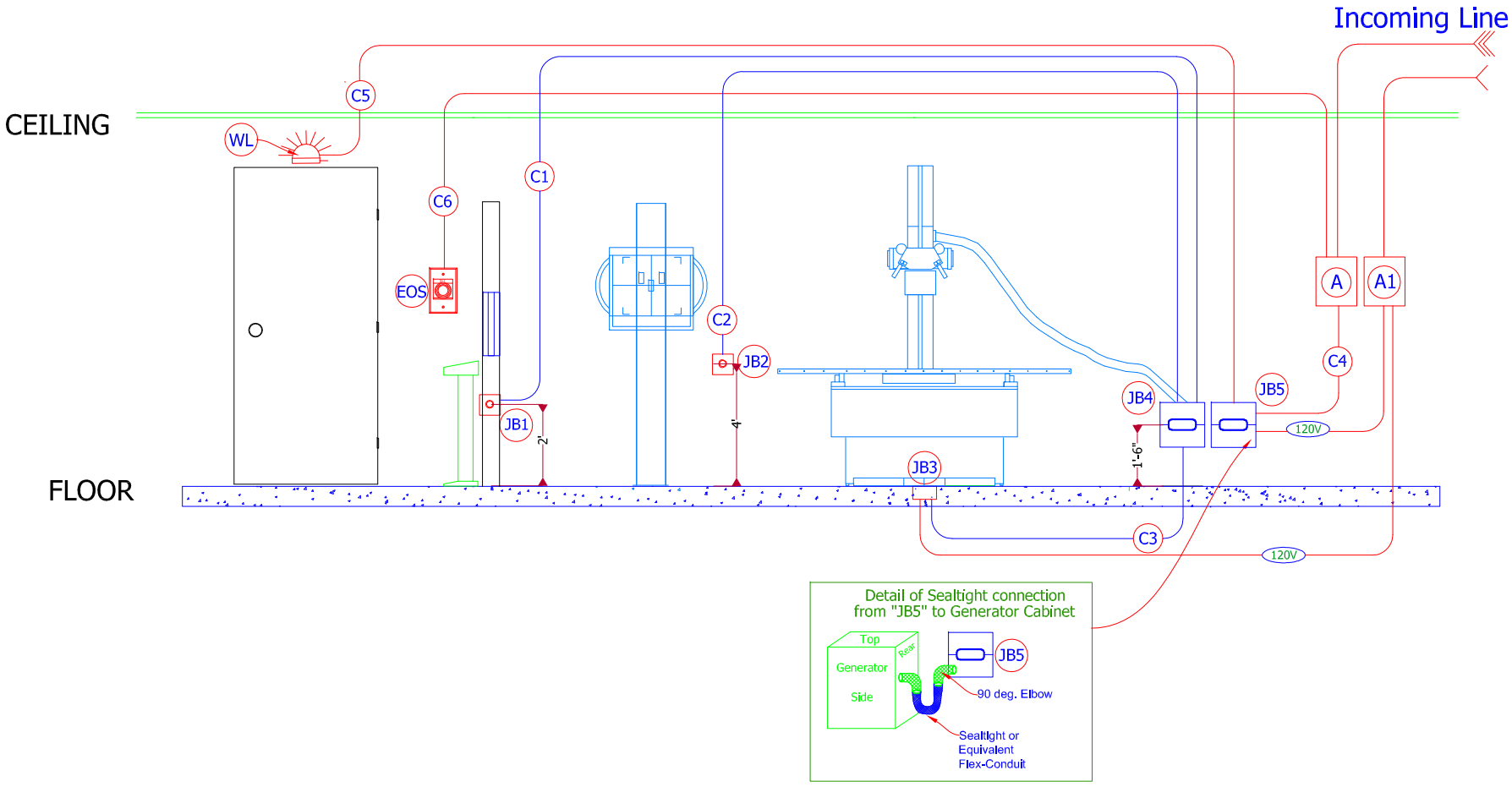
Note: Wire must be made of stranded flexible copper.

Grounding: Insulated grounding must conform with current requirements for electrically susceptible patient areas. See Article 517, National Electrical Code.

The Disconnect Switch should be a Shunt Trip type and the Emergency Shut-Off Switch should be placed in the Operator Control Area.

Maximum line regulation for maximum kVA demand: 5% under load

Note: All conduit runs should be as short as possible due to cable length limitations.



Simplified Electrical Schematic

NOTE: REFER TO SHEET E1 FOR DETAILS

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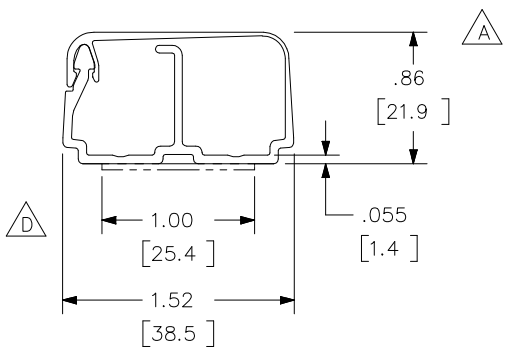
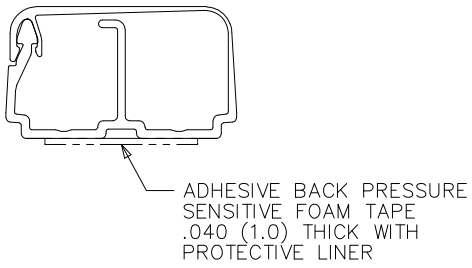
As an alternative to flush mounting "JB3", please provide a surface mounted wire raceway similar to the below example.

Detail of Suggested Wire Raceway -C3





PART NAME	PANDUIT PART NO. (** SEE NOTE 1)	LENGTH IN. (MM)	STATIC LOAD (SEE NOTE 2)	APPROXIMATE WEIGHT
DIVIDED CHANNEL POWER LATCHING DUCT	LD2P10**8-A	96.00 ±.18 (2438.4 ±4.6)	.61 LB/IN (10.9 g/mm)	.159 LB/FT (.24 g/mm)
	LD2P10**10-A	120.00 ±.18 (3048.0 ±4.6)		
	LD2P10**2-A	78.74 ±.18 (2000.0 ±4.6)		

F C

B NOTES:
1. SEE CURRENT CATALOG FOR ADDITIONAL PART NUMBER SUFFIXES TO INDICATE COLORS AND OR PACKAGE QUANTITY.
2. PART IS DESIGNED TO SUPPORT MAXIMUM WEIGHT ON A CLEAN, DRY, SMOOTH SURFACE.
3. TO APPLY PART:
   a. REMOVE PROTECTIVE LINER.
   b. PLACE PART IN DESIRED LOCATION.
   c. APPLY PRESSURE TO FLAT SURFACE OF PART.
4. DIMENSIONS IN PARENTHESIS ARE IN METRIC.
5. ALLOWS THE ROUTING OF POWER AND COMMUNICATIONS CABLING IN A SMALL RACEWAY.
6. NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE BY PANDUIT WITH RESPECT TO ADHESIVE BOND PERFORMANCE. THE CONDITIONS UNDER WHICH THESE RACEWAYS MAY BE APPLIED AND/OR THE SURFACE TO WHICH THEY MAY BE APPLIED ARE BEYOND PANDUIT'S CONTROL.

REV	DATE	BY	CHK	DESCRIPTION	ECN	CHK	CUST	SUP
4	03-08-04	JHEP	RGRO	F. REMOVED PART NUMBER LD2P10**3-A	35541-65	RGRO	RGRO	
3	06-12-03	JBN	HIW	E. CAD FILE WAS D35541DM_TH_DW_LD10_02 D. REVISED TAPE WIDTH: WAS 1.25 [31.8]	35541-65	HIW	HIW	
2	05-21-99	RABO	HIW	C. ADDED 3M LENGTH	35541-65	HIW	HIW	
1	09-17-98	PM	HIW	B. REVISE NOTES A. REVISE CHART: REMOVE 72 IN. LENGTH	35541-65	HIW	HIW	
R	03-17-97	PM	CEF	RELEASED TO PRODUCTION	35541-65	CEF	CEF	

CAD FILENAME/LAYERS: E D35541DM_DC_LD2P10_03B.PRT (1)

PANDUIT CORP. TINLEY PARK, ILLINOIS

DIVIDED CHANNEL POWER LATCHING DUCT (LD2P10)
CUSTOMER DRAWING

UNLESS OTHERWISE SPECIFIED, DIMENSIONAL TOLERANCES ARE:
(.X) + _ (.XXX) + _.010 [.4]
(.XX) + _.03 [.8] ANGLES +_

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE GIVEN IN INCHES, THIRD ANGLE PROJECTION.

DRAWN BY: PM
DATE: 03-17-97
CHECKED BY: CEF
MAT'L: RIGID PVC POLYVINYL CHLORIDE
SCALE: NONE
DRAWING NO.: 35541-65
DWG SIZE: A

Dwg No. 1811-85-A
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