



Raceway Required Schedule						
General Notes						
1. All raceway runs must take most direct route point to point.						
2. All conduits shall be provided w/ pull cords.						
A. Raceway supplied/installed by contractor - Philips cables installed by Philips.						
B. Raceway supplied/installed by contractor - Philips cables installed by contractor.						
C. Raceway and cables supplied and installed by contractor.						
Raceway	Run No.	From	To	Raceway Quantity	Cable Type (T)	Minimum Raceway Size
Power Panel	1	CB	ST	1	P	2-1/2"
Power Panel	2	CB	ST	1	P	2"
Power Panel	3	CB	ST	1	P	2"
Power Panel	4	CB	ST	1	P	2-1/2"
Power Panel	5	CB	ST	1	P	2"
Power Panel	6	CB	ST	1	P	2"
Power Panel	7	CB	ST	1	P	2"
Power Panel	8	CB	ST	1	P	2"
Power Panel	9	CB	ST	1	P	2"
Power Panel	10	CB	ST	1	P	2"
Power Panel	11	CB	ST	1	P	2"
Power Panel	12	CB	ST	1	P	2"
Power Panel	13	CB	ST	1	P	2"
Power Panel	14	CB	ST	1	P	2"
Power Panel	15	CB	ST	1	P	2"
Power Panel	16	CB	ST	1	P	2"
Power Panel	17	CB	ST	1	P	2"
Power Panel	18	CB	ST	1	P	2"
Power Panel	19	CB	ST	1	P	2"
Power Panel	20	CB	ST	1	P	2"
Power Panel	21	CB	ST	1	P	2"
Power Panel	22	CB	ST	1	P	2"
Power Panel	23	CB	ST	1	P	2"
Power Panel	24	CB	ST	1	P	2"
Power Panel	25	CB	ST	1	P	2"
Power Panel	26	CB	ST	1	P	2"
Power Panel	27	CB	ST	1	P	2"
Power Panel	28	CB	ST	1	P	2"
Power Panel	29	CB	ST	1	P	2"
Power Panel	30	CB	ST	1	P	2"

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B. Raceway supplied/installed by contractor - Philips cables installed by contractor.						
C. Raceway and cables supplied and installed by contractor.						
Raceway	Run No.	From	To	Raceway Quantity	Cable Type (T)	Minimum Raceway Size
Power Panel	31	CB	ST	1	P	2-1/2"
Power Panel	32	CB	ST	1	P	2"
Power Panel	33	CB	ST	1	P	2"
Power Panel	34	CB	ST	1	P	2-1/2"
Power Panel	35	CB	ST	1	P	2"
Power Panel	36	CB	ST	1	P	2"
Power Panel	37	CB	ST	1	P	2"
Power Panel	38	CB	ST	1	P	2"
Power Panel	39	CB	ST	1	P	2"
Power Panel	40	CB	ST	1	P	2"
Power Panel	41	CB	ST	1	P	2"
Power Panel	42	CB	ST	1	P	2"
Power Panel	43	CB	ST	1	P	2"
Power Panel	44	CB	ST	1	P	2"
Power Panel	45	CB	ST	1	P	2"
Power Panel	46	CB	ST	1	P	2"
Power Panel	47	CB	ST	1	P	2"
Power Panel	48	CB	ST	1	P	2"
Power Panel	49	CB	ST	1	P	2"
Power Panel	50	CB	ST	1	P	2"
Power Panel	51	CB	ST	1	P	2"
Power Panel	52	CB	ST	1	P	2"
Power Panel	53	CB	ST	1	P	2"
Power Panel	54	CB	ST	1	P	2"
Power Panel	55	CB	ST	1	P	2"
Power Panel	56	CB	ST	1	P	2"
Power Panel	57	CB	ST	1	P	2"
Power Panel	58	CB	ST	1	P	2"
Power Panel	59	CB	ST	1	P	2"
Power Panel	60	CB	ST	1	P	2"

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B. Raceway supplied/installed by contractor - Philips cables installed by contractor.						
C. Raceway and cables supplied and installed by contractor.						
Raceway	Run No.	From	To	Raceway Quantity	Cable Type (T)	Minimum Raceway Size
Power Panel	61	CB	ST	1	P	2-1/2"
Power Panel	62	CB	ST	1	P	2"
Power Panel	63	CB	ST	1	P	2"
Power Panel	64	CB	ST	1	P	2"
Power Panel	65	CB	ST	1	P	2"
Power Panel	66	CB	ST	1	P	2"
Power Panel	67	CB	ST	1	P	2"
Power Panel	68	CB	ST	1	P	2"
Power Panel	69	CB	ST	1	P	2"
Power Panel	70	CB	ST	1	P	2"
Power Panel	71	CB	ST	1	P	2"
Power Panel	72	CB	ST	1	P	2"
Power Panel	73	CB	ST	1	P	2"
Power Panel	74	CB	ST	1	P	2"
Power Panel	75	CB	ST	1	P	2"
Power Panel	76	CB	ST	1	P	2"
Power Panel	77	CB	ST	1	P	2"
Power Panel	78	CB	ST	1	P	2"
Power Panel	79	CB	ST	1	P	2"
Power Panel	80	CB	ST	1	P	2"

NOTES:

1. CONDUIT ROUTES SHOWN ARE FOR DIAGRAMMATICAL AND INFORMATIONAL PURPOSES ONLY. CONDUITS SHALL BE ROUTED VIA CORRIDOR TO REACH ROOMS WITHIN THE SCOPE OF WORK. CONDUITS SHALL NOT BE ROUTED THROUGH ROOMS NOT WITHIN THE SCOPE OF WORK. ACTUAL FIELD CONDITIONS SHALL DETERMINE FINAL CONDUIT ROUTE.

2. WHERE INDICATED IN RACEWAY SCHEDULE, REFER TO WIRING DIAGRAM ON DRAWING ES303 FOR EC PROVIDED CABLE.

Electrical Legend		
Item Number	Description	Detail Sheet
1	Shunt Trip (emergency off) - Large mushroom-head button on remote control station with contacts to operate feature of "CB" and "CB2".	ES303
2	Local building steel (column F-17 located in recovery room 3A144).	ES303
3	Equip-Potential Reference Bar mounted in a 12" W x 12" H x 4" D pull box with hinged cover, surface mounted to the bottom of "WR2" when possible.	ES303
4	18" W x 18" H x 8" D flanged-edge terminal wall box with removable screw-type cover plate, surface mounted 12" above finished floor to bottom of box, provide (1) 1/2" and (2) 2" conduits through "PBK" cover plate to PDU cabinet. Conduits shall have insulated bushing where connected to the gsePDU panel. The conduits themselves shall be bonded to the raceway and building steel (Column F-17).	ES303
5	19 1/4" W x 6" H x 4" D flanged-edge terminal wall box, surface mounted 75" A.F.F. to top of box. General contractor to cut top and/or bottom of box as required.	ES303
6	Grommet opening on "WR3". Approximate location shown is recommended and may be changed - verify relocation with local Philips Service.	ES303
7	480V, 3 phase 125 AMP circuit breaker with shunt trip. Run power from breaker to "PBK", leaving an 8' tail at each end.	ES303
8	480V, 3 phase 60 AMP circuit breaker with shunt trip.	ES303
9	5" core drill from the floor trench duct up to the underside of AD7 universal floorplate.	ES303
10	18" W x 18" L x 6" D ceiling box, flush mounted with removable screw-type cover plate. Provide one 3" diameter knockout.	ES303
11	18" W x 18" L x 6" D ceiling box, flush mounted with removable screw-type cover plate. Provide Two (2) 2 1/2".	ES303
12	10" W x 4" D wall raceway, surface mounted with removable screw-type cover plate. "WR1" is at finished floor. "WR2" is at 75" A.F.F. to bottom of raceway.	ES303
13	10" W x 4" D wall raceway, surface mounted with removable screw-type cover plate. "WR3" is at finished floor. "WR2" may need to be cut at the location of the "C" connection box.	ES303
14	10" W x 4" D riser duct with removable screw-type cover plate, surface mounted from wall raceway to wall box.	ES303
15	Stub up point for physiological monitoring cables. Run conduit to customer's physiological console location.	ES303
16	Auxiliary Box - 6" W x 6" H x 4" D wall box, flush mounted 70" A.F.F. to the bottom of the box with removable screw-type cover plate. Height and location shown are recommended and may be changed - verify height and relocation with local Philips Service.	ES303
17	Warning Light - See floor plan on drawing ES201 for additional information.	ES303
18	Door Switch - 120V/5A switch limited to open when door is open. Mount in upper corner on strike side of main entry door(s) (Cooper no. 1665 or equivalent).	ES303

Electrical Legend		
Item Number	Description	Detail Sheet
19	4" W x 4" H x 4" D pull box with removable screw-type cover plate, flush mounted. Exact height to be determined. Location shown is recommended and may be changed - verify relocation with local Philips Service.	ES303
20	4" W x 4" L x 2 1/2" D box (By EC) for the transformer (Provided by others) used for the Mach 3 Surgical Light.	ES303
21	4" W x 4" L x 2 1/2" D ceiling box, flush mounted with removable screw-type cover plate. Final location as directed by Philips.	ES303
22	Grommet opening on "WR2". Exact size and location to be determined by local Philips Service.	ES303
23	8" W x 8" H x 4" D pull box with removable screw-type cover plate, flush mounted 8" above finished floor to bottom of the box. Location shown is recommended and may be changed - verify relocation with local Philips Service. A cable spool is provided to snare the 25-24 cable to the pedestal.	ES303
24	6" W x 6" H x 4" D pull box with removable screw-type cover plate, flush mounted with ceiling. Exact height to be determined. Location shown is recommended and may be changed - verify relocation with local Philips Service. LCD on cart must remain within 25" of TV2.	ES303
25	480V, 3 phase 125 AMP circuit breaker with shunt trip. Run power from breaker to "PBK", leaving an 8' tail at each end.	ES303
26	480V, 3 phase 60 AMP circuit breaker with shunt trip.	ES303
27	UPS - 25 kVA, Complete with internal maintenance bypass switch, fully rated static bypass switch, and input isolation transformer, output auto-transformer. Basis of design: Toshiba 4200 FA XT UPS. Contractor shall consult Philips Service and provide UPS that is recommended by Philips.	ES303
28	Universal Transfer Switch/Universal Power Controller. Combines battery cabinet with custom designed universal transfer switch. Provides all interconnections to fully integrate into equipment, via integral programmable logic control unit and controls wiring and switching of the system, provides 12.5 minutes of runtime at full load on battery. Contractor shall consult Philips Service and provide Universal Transfer Switch/Universal Power Controller that is recommended by Philips.	ES303
29	Battery Cabinet, included with universal transfer switch/universal power controller, Philips approved batteries, GENESER by EnerSys, MP33-12PS 12V 33Ah Frame retardant.	ES303
30	Remote Status Panel (wall mounted in the control area) - 4" W x 4" H x 4" D pull box with removable screw-type cover plate, flush mounted. Exact height to be determined. Location shown is recommended and may be changed - verify relocation with local Philips Service. Contractor shall consult Philips Service and provide Status Panel that is recommended by Philips.	ES303
31	10" W x 3 1/2" D floor duct, mounted under the floor.	ES303
32	10" W x 3 1/2" D ceiling raceway, mounted above the ceiling line with removable screw-type cover plate accessible from top.	ES303
33	10" W x 4" D riser duct with removable screw-type cover plate, surface mounted. R2 from wall raceway to CR. R3 from wall raceway to FD.	ES303

ADDENDUM #1

5/7/14

CONSULTANTS

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1407 Scale Avenue |
Johnstown, PA 15904 |
814.269.9300

ENVIRONMENTAL ENGINEER

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614.818.5200

ENGINEER

PRIME CONTRACTOR

The Trident GROUP

985 Schrock Road | Suite 100 |
Columbus, Ohio 43229 |
614.985.1191 | 614.985.1194

Drawing Title:

INTERVENTIONAL RADIOLOGY EQUIPMENT PLANS

Approved:

Project Title:

Interventional Radiology Upgrades

Location:

Philadelphia, Pennsylvania

Date:

Dec. 13, 2013

Checked By:

TME

Drawn By:

RJD

Project Number:

642-13-130

Building Number:

2

Drawing Number:

ES302

Dwg. 42 of 48

Office of Construction and Facilities Management

Department of Veterans Affairs

three eighths inch = one foot
one eighth inch = one foot
one quarter inch = one foot
one half inch = one foot
three quarters inch = one foot
one inch = one foot
one and one half inches = one foot
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