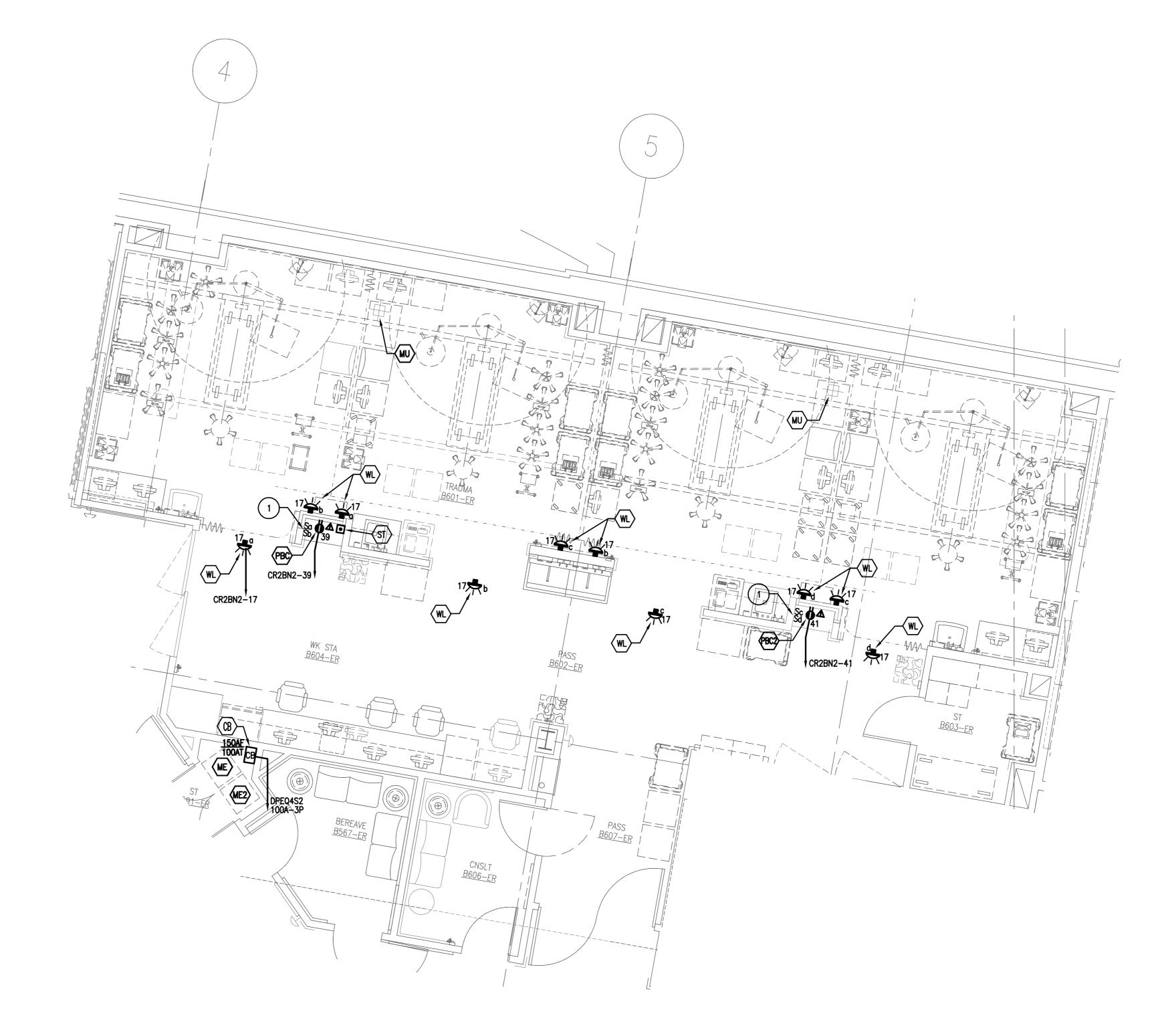
	COMPONENT DESCRIPTION AND WIRING SCHEDULE											
	B FURN C INSTA	ISHED AND INSTALLED BY PHILIPS ISHED BY CUSTOMER/CONTRACTO ILLED BY CUSTOMER/CONTRACTOR ISHED BY PHILIPS AND INSTALLED	R AND INSTALLED BY CUSTOMER/CONTRACTOR									
	No.	G.E. COMPONENT	ELECTRICAL CONTRACTOR RESPONSIBLITY	NOTES/COMMENTS								
∀ B	(CB)	CIRCUIT BREAKER	(1) 100A CIRCUIT BREAKER WITH SHUNT TRIP AND LOAD SIDE PRESSUR LUGS FOR #2 AWG EXTRA FLEXIBLE CABLE (T + B TYPE 31009 "LOCKTIGHT" OR SIMILAR) RUN POWER FROM BREAKER TO WALL BOX "ME" LEAVING AN 8' TAIL.	LOCATION PER LOCAL CODE OR OWNER REQUIREMENTS. COORDINATE WITH LOCAL PHILIPS SERVICE.								
В	<u>(21)</u>	SUNT TRIP (EMERGENCY OFF)	(1) LARGE MUSHROOM—HEAD BUTTON ON REMOTE CONTROL STATION WITH CONTACTS TO OPERATE FEATURE OF CB	ITS LOCATION MUST BE WITHIN EASY REACH BUT NOT SUBJECT TO AN ACCIDENTIAL BUMP. EXACT LOCATION TO BE DETERMINED BY CUSTOMER OR COORDINATED WITH LOCAL PHILIPS SERVICE.								
D	ME	OPTIMUS 80 CONTROL CABINET (40E RACK)	(1) 19 1/4"Wx67"Hx4"D FLANGED-EDGE TERMINAL WALL BOX WITH REMOVABLE SCREW-TYPE COVER PLATE, SURFACE MOUNTED 75" AFF TO TOP OF BOX. CONDUITS TO TERMINATE ON TOP AND SIDES OF THE BOX AS REQUIRED.									
D	ME2	OPTIMUS 80 CONTROL CABINET (40E RACK)	(1) 19 1/4"Wx67"Hx4"D FLANGED-EDGE TERMINAL WALL BOX WITH REMOVABLE SCREW-TYPE COVER PLATE, SURFACE MOUNTED 75" AFF TO TOP OF BOX. CONDUITS TO TERMINATE ON TOP AND SIDES OF THE BOX AS REQUIRED.									
В	PBC	OPTIMUS CONTROL PANEL	(1) 6"Wx6"Lx4"D PULL BOX WITH REMOVABLE SCREW-TYPE COVER PLATE, SURFACE MOUNTED 22"AFF TO BOTTOM OF BOX.									
В	(BC2)	OPTIMUS CONTROL PANEL	(1) 6"Wx6"Lx4"D PULL BOX WITH REMOVABLE SCREW-TYPE COVER PLATE, SURFACE MOUNTED 22"AFF TO BOTTOM OF BOX.									
В	MU	CS 4 TUBE CRANE WITH TRAUMA	(1) 8"Wx8"Lx6"D CEILING BOX FLUSH MOUNTED WITH REMOVABLE SCREW-TYPE COVER PLATE.									
В	(MU2)	CS 4 TUBE CRANE WITH TRAUMA	(1) 8"Wx8"Lx6"D CEILING BOX FLUSH MOUNTED WITH REMOVABLE SCREW-TYPE COVER PLATE.									
В	(WL)	WARMING LIGHT	(1) INCANDESCENT SURFACE OR FLUSH MOUNTED LIGHT FIXTURE ABOVE DOOR TO INDICATE WHEN X-RAY IS ON. PROVIDE A 115V, 15A NORMALLY OPEN RELAY IN THIS FIXTURE.	REFER TO DRAWINGS E700 AND E801 FOR ADDITIONAL INFORMATION.								
В	(DS)	DOOR SWITCH	(1) 120V, 5A SWITCH LIMITED TO OPEN WHEN DOOR IS OPEN. MOUNT IN UPPER CORNER ON STRIKE SIDE OF MAIN ENTRY DOOR(S). COOPER #1665 OR EQUIVALENT.	PER PHYSICIST OF RECORD REQUEST.								

						UIT REQUIRE	
	1 AU C	ONDLIIT R	IINSMIIST 1	TAKE MOST DII	GEINI RECT ROUTE PO	ERAL NOTES	
				HAVE A PULL		oner 10 1 oner.	
	A CONDU B CONDU C CONDU	it Suppli It Suppli It and Ca	ed/install ed/install ables sup	ED BY CONTR ED BY CONTR PLIED AND IN:	ACTOR — PHILI ACTOR — PHILI STALLED BY CO	PS CABLES INSTALLE PS CABLES INSTALLE NTRACTOR	ED BY PHILIPS ED BY CONTRACTOR * P POWER / GROUND CABLES S SIGNAL CABLES V VIDEO CABLES H HIGH TENSION POWER CABLE C COOLING HOSES
	CONDUIT			CONDUIT QUANTITY	MINIMUM	DEFAULT	opeou.
\	RUN No.	FROM	то	(* CABLE TYPE)	CONDUIT SIZE	CONDUIT LENGTH	SPECIAL REQUIREMENTS
С	1	(CB)	POWER PANEL	1 (P)	per NEC	per NEC	
В	2	(CB)	ME	1 (P)	2"	50'	
С	3	CB	(ST)	1 (P)	3/4"	50'	
С	4	ME	⟨WL ⟩	1 (P)	1/2"	50'	
С	5	ME	DS	1 (P)	1/2"	50'	
Α	6	ME	(PBC)	1 (P)	2*	65'	
A	7	ME	PBC	1 (S)	2*	65'	
Α	8	ME	MU	1 (P)	2 1/2"	32'	LONGER CABLES TO BE ORDERED (14m)
A	9	ME	MU	1 (S)	2 1/2"	32'	LONGER CABLES TO BE ORDERED (14m)
С	10	(CB)	POWER PANEL	1 (P)	per NEC	per NEC	
В	11	(CB)	ME	1 (P)	2"	50'	
С	12	(CB)	(ST)	1 (P)	3/4"	50'	
С	13	ME2	WL>	1 (P)	1/2"	50'	
С	14	ME2	DS	1 (P)	1/2"	50'	
A	15	ME2	(PBC2)	1 (P)	2"	65'	
A	16	ME2	(PBC2)	1 (S)	2"	65'	
A	17	ME2	MU2	1 (P)	2 1/2"	32'	LONGER CABLES TO BE ORDERED (14m)
Α	18	ME2	MU2	1 (S)	2 1/2"	32'	LONGER CABLES TO BE ORDERED (14m)



TRAUMA ROOMS PART PLAN
1/4"=1'-0"

BRANCH CIRCUIT AND WIRE GAUGE REQUIREMENTS OPTIMUS 80/OPTIMUS C

3 POLE, 100 AMPERES (@ 480V)

BRANCH POWER:

CIRCUIT BREAKER:

RECOMMENDED CONDUCTOR SI BASED ON 20°C COPRER CONI		NCE OF BRANCH CONDUCTORS.
	460 VAC	480 VAC
#1 AWG	87 ft.	96 ft.
1/0 AWG	110 ft.	121 ft.
2/0 AWG	139 ft.	152 ft.
3/0 AWG	175 ft.	192 ft.
4/0 AWG	221 ft.	242 ft.
250 MCM	261 ft.	287 ft.
300 MCM	313 ft.	344 ft.
400 MCM	418 ft.	459 ft.
500 MCM	522 ft.	574 ft.
INST. CURRENT	200 A	190 A
MAX. PHASE-PHASE IMPEADANCE	0.2 W	0.2 W
MAX. LOAD VOLTAGE DROP	40.0 V	38.0 V
PERCENT REGULATION AT MAXIMUM LOAD	8.7 %	7.9 %

PHILIPS EQUIPMENT NOTES:

- 1. ELECTRICAL DUCTS AND BOXES SHALL BE ACCESSIBLE AND HAVE REMOVABLE COVERS. FLOOR DUCTS AND BOXES SHALL HAVE WATERTIGHT COVERS. DUCTS SHALL BE DIVIDED INTO AS MANY AS THREE SEPARATE CHANNELS BY METAL DIVIDERS TO SEPARATE WIRING AND/OR CABLES INTO GROUPS AS FOLLOWS: GROUP "A" - POWER WIRING AND/OR CABLES GROUP "B" - SIGNAL AND/OR DATA AND PROTECTIVE GROUND WIRING AND/OR CABLES GROUP "C" - X-RAY HIGH VOLTAGE CABLES, THE USE OF 90" ELLS IS NOT ACCEPTABLE ON CEILING DUCT AND WALL DUCT UDE 45 DEG. BENDS AT ALL CORNERS.
 ALL INTERSECTING POINTS IN DUCT TO HAVE CROSS OVER TUNNELS SUPPLIED AND INSTALLED BY CONTRACTOR TO MAINTAIN SEPARATION OF CABLES.
- 2. CONDUIT POINT-TO-POINT RUNS SHALL BE AS DIRECT AS POSSIBLE. EMPTY CONDUIT RUNS USED FOR CABLES MAY REQUIRE PULL BOXES LOCATED ALONG THE RUN. CONSULT WITH PHILIPS. A PULL WIRE OR CORD SHALL BE INSTALLED IN EACH CONDUIT RUN. ALL CONDUITS WHICH ENTER DUCT PRIOR TO THEIR TERMINATION POINT MUST MAINTAIN SEPARATION FROM OTHER CABLES VIA USE OF DIVIDERS, CROSS OVER TUNNELS, OR FLEX CONDUIT SUPPLIED AND INSTALLED BY CONTRACTOR FROM ENTRANCE INTO DUCT TO EXIT FROM DUCT.
- 3. ALL CONDUCTORS SHALL BE 75°C STRANDED COPPER, RUNG OUT AND MARKED.
- 4. ELECTRICAL RACEWAY SHALL BE INSTALLED WITH REMOVABLE COVERS, THE RACEWAY SHOULD BE ACCESSIBLE FOR THE ENTIRE LENGTH. IN CASE OF NON-ACCESSIBLE FLOORS, WALLS AND CEILINGS, AN ADEQUATE NUMBER OF ACCESS HUTCHES SHOULD BE SUPPLIED TO ENABLE INSTALLATION OF CABLING. APPROVED CONDUITS MAY BE SUBSTITUTED. ALL RACEWAYS WILL BE DESIGNED IN A MANNER THAT WILL NOT ALLOW CABLES TO FALL OUT OF THE RACEWAY WHEN THE COVERS ARE REMOVED. CONDUIT OR RACEWAY ABOVE CEILING MUST BE KEPT AS NEAR TO FINISHED CEILING AS
- 5. ALL SECTIONS OF RACEWAY AND CONDUIT SHALL BE GROUNDED WITH AN INDEPENDENT #6 AWG GREEN WIRE THAT IS TO BE ATTACHED USING SOLDERLESS LUGS. ALL CEILING MOUNTED STRACTURAL SUPPORT MEMBERS AND CEILING PLATES SHALL ALSO BE GROUNDED. ALL GROUNDING CONNECTIONS, TERMINALS, ETC. SHALL BE INSTALLED IN A MANNER TO PROVIDE ACCESSIBILITY FOR INSPECTION, MAINTENANCE, REPAIR, ETC.
- NEUTRAL AND GROUND CONDUCTORS TO BE SIZED EQUIVALENTLY TO PHASE CONDUCTORS, UNLESS OTHERWISE NOTED.
- 7. METAL CONDUIT SHALL NOT BE USED AS THE EQUIPMENT GROUND CONDUCTOR.

General Notes:

DRAWING NOTES:

. THIS PLAN SHALL BE USED IN CONJUNCTION WITH PHILIPS MEDICAL SYSTEMS EQUIPMENT VENDORS DRAWING FOR EXACT LOCATION OF EQUIPMENT, CABLE TRAY, VERTICAL RACEWAY, ETC.

1 COORDINATE EXACT LOCATION AND WIRING REQUIREMENTS WITH PHILIPS.

ISSUE DATE DESCRIPTION

12/14/07 BID SET

TRO Jung Brannen

ARCHITECTURE INTERIOR DESIGN ENGINEERING MASTER PLANNING

22 Boston Wharf Road, Boston, Massachusetts 02210

Tel 617.502.9400 Fax 617.502.3402 www.trojungbrannen.com

Maine Medical Center

Portland, Maine MMC Project No. 21843

ED Expansion and Renovation

Drawing Title

Approved By

ELECTRICAL

PART PLAN

TRAUMA ROOM

Phase / Package Number | Sheet Number

Issue Log

AB Commission No.

DS Date Issued

E502

12/14/07