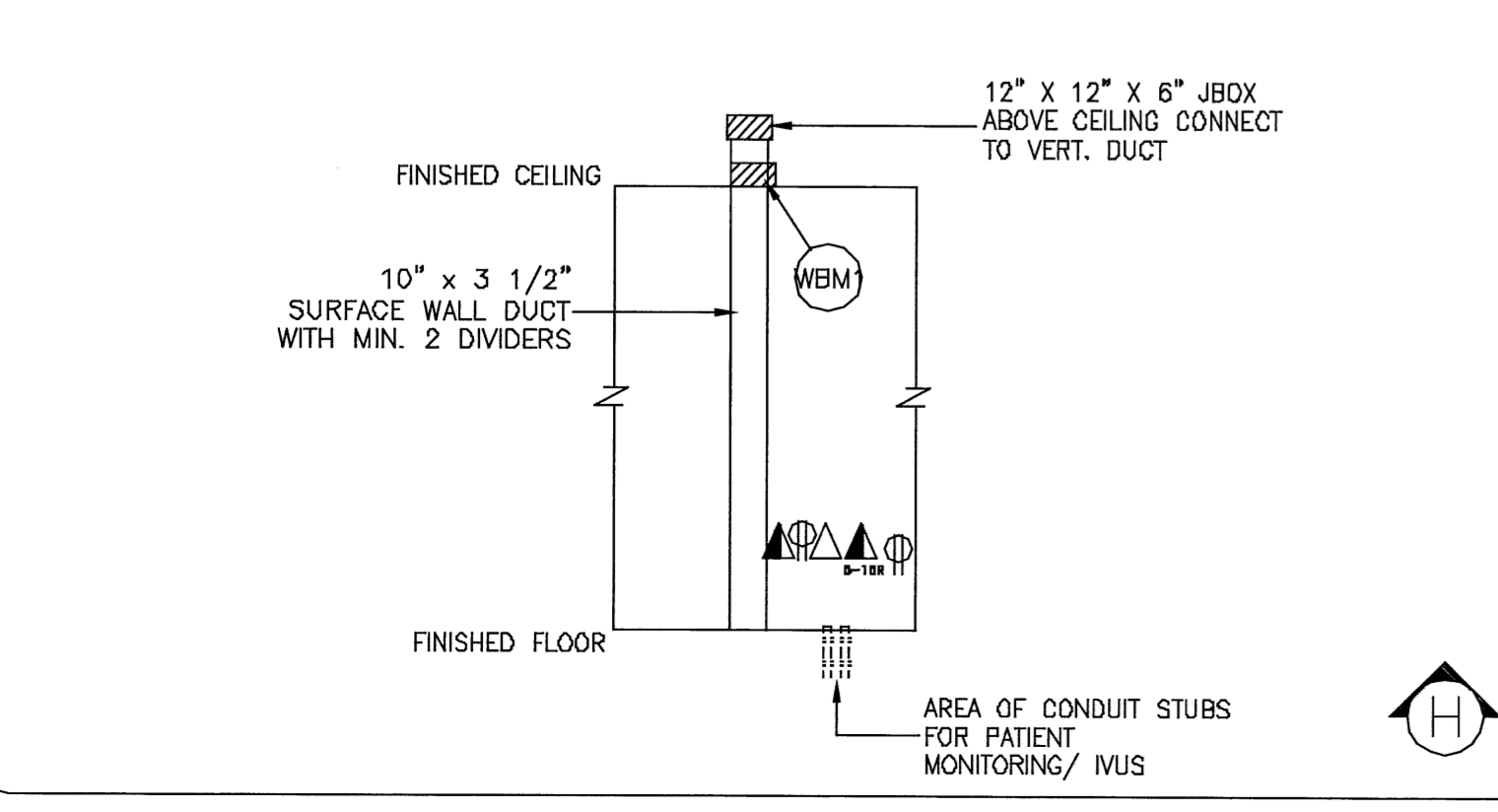
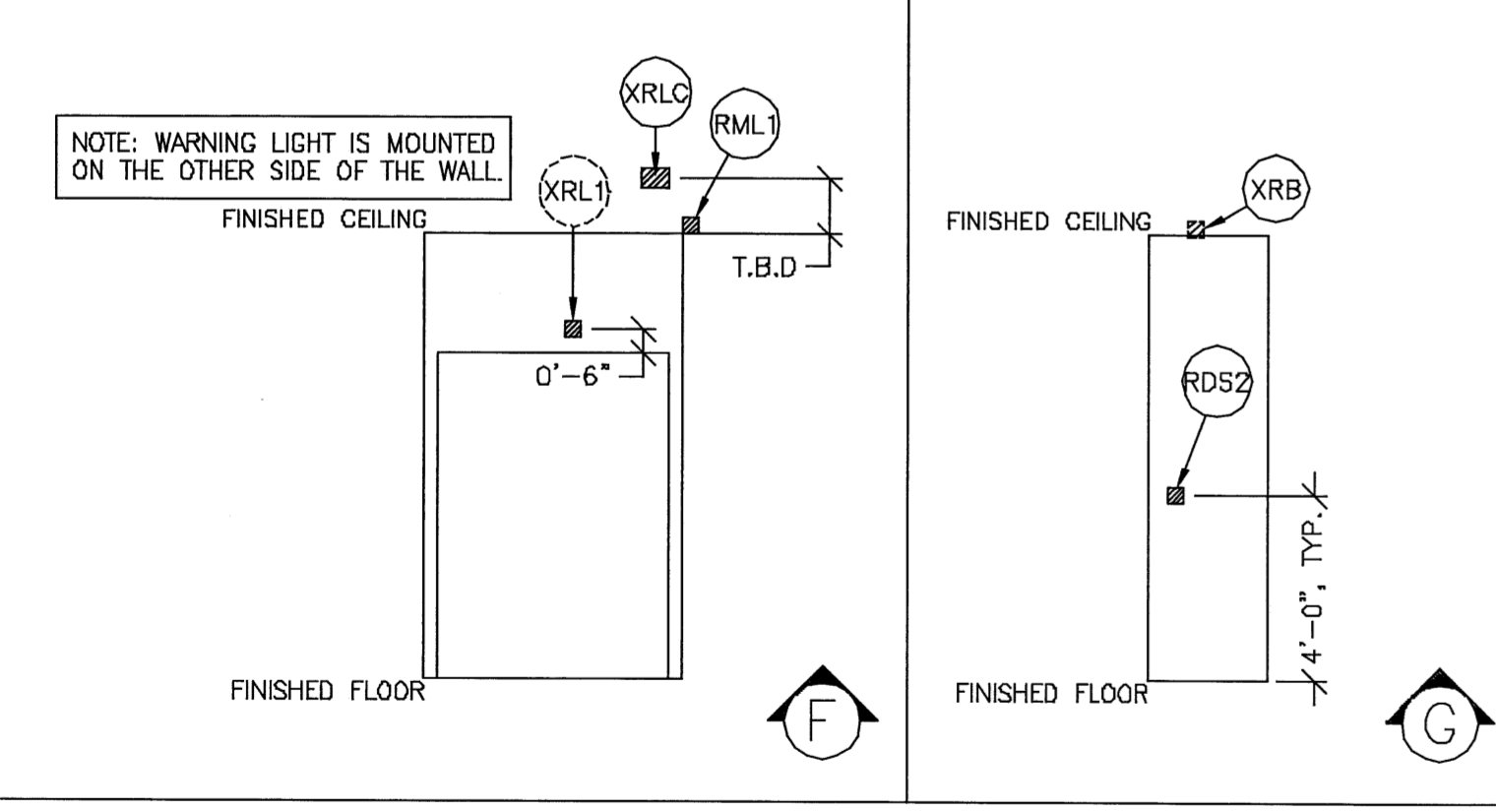
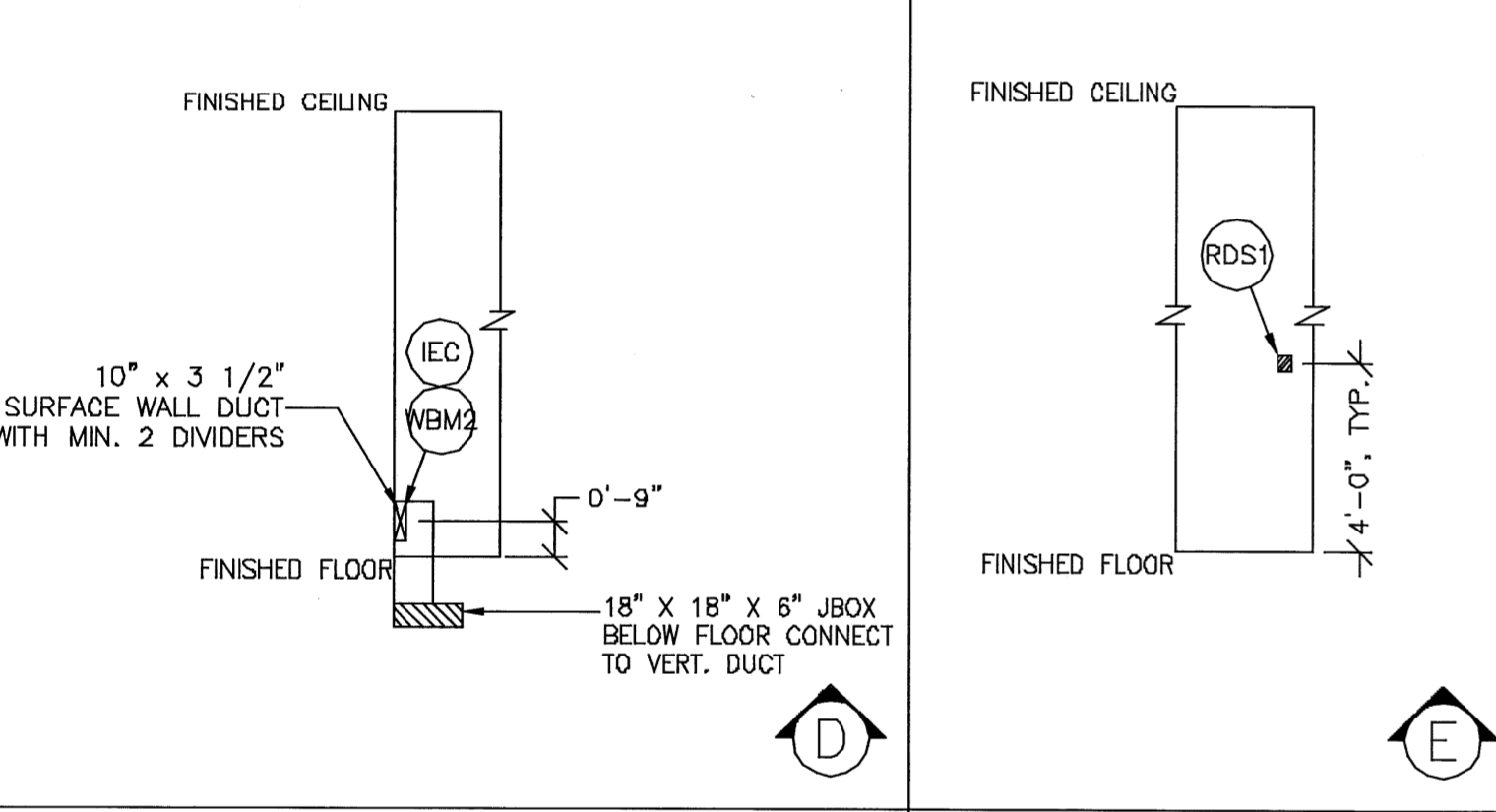
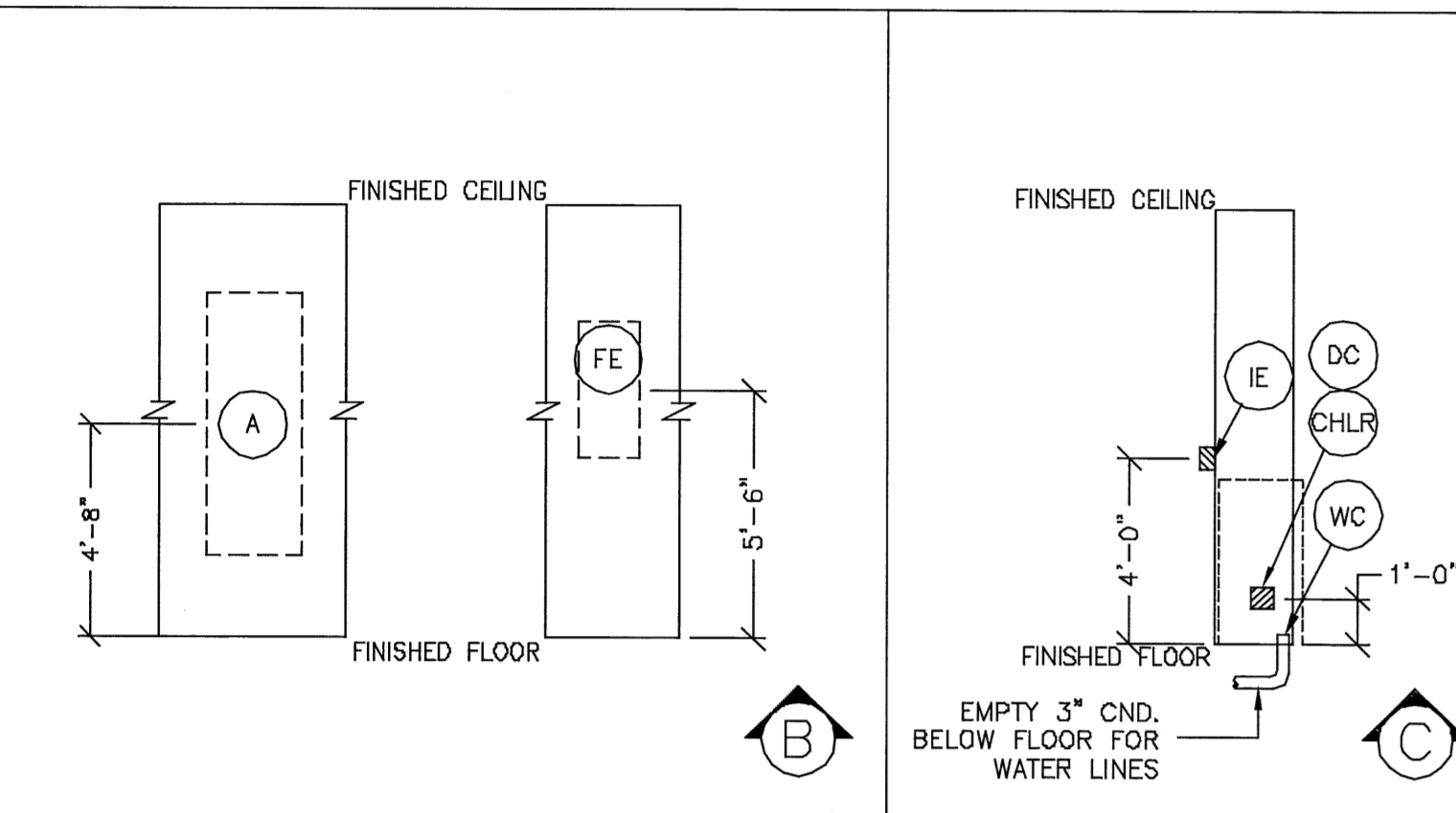
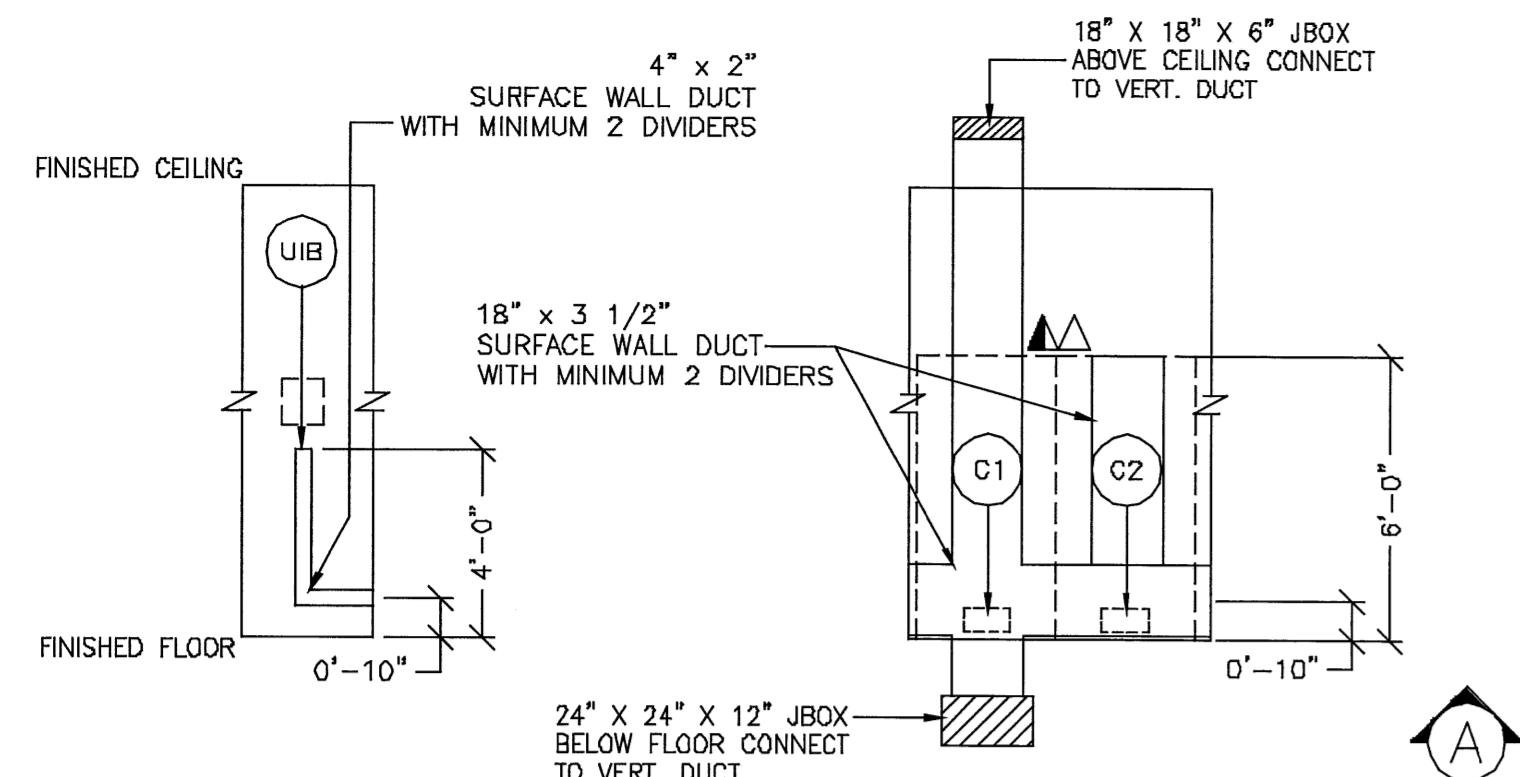


SCALE: 1/4" = 1'-0"

ELECTRICAL PLAN

EXISTING CEILING HEIGHT = 9'-6"

JUNCTION POINT DESCRIPTIONS



ELECTRICAL OUTLET LEGEND
CUSTOMER/CONTRACTOR SUPPLIED AND INSTALLED ITEMS, HEIGHT ABOVE FLOOR DETERMINED BY LOCAL CODES UNLESS OTHERWISE SPECIFIED.

- ⊕ DUPLEX HOSPITAL GRADE, DEDICATED WALL OUTLET 120-V, SINGLE PHASE POWER
- ⊕ DEDICATED TELEPHONE LINE (SEE ELECTRICAL DETAIL ELEC-1 OR ELEC-67)
- ⊕ NETWORK OUTLET (SEE ELECTRICAL DETAILS ELEC-83 AND ELEC-84 OR ELEC-87)
- ⊕ 5-15A NEMA RECEPTACLE, DEDICATED OUTLET 120-V, SINGLE PHASE POWER
- ⊕ DUPLEX HOSPITAL GRADE, DEDICATED OUTLET 120-V EMERGENCY, SINGLE PHASE POWER, 15A

DUCT HATCHING LEGEND

- ▨ ABOVE CEILING DUCT
- ▧ UNDER FLOOR DUCT
- ▩ TRENCH DUCT (FLUSH FLOOR)
- ▭ SURFACE FLOOR DUCT
- ▨ CABLE TRAY
- ABOVE CEILING CONDUIT
- BELOW FLOOR CONDUIT

JUNCTION POINT NOTES

- ALL JUNCTION BOXES, CONDUIT, DUCT, DUCT DIVIDERS, SWITCHES, CIRCUIT BREAKERS, ETC., ARE TO BE SUPPLIED AND INSTALLED BY CUSTOMER'S ELECTRICAL CONTRACTOR.
- CONDUIT AND DUCT RUNS SHALL HAVE SWEEP RADIUS BENDS.
- CONDUITS AND DUCT ABOVE CEILING OR BELOW FINISHED FLOOR MUST BE INSTALLED AS NEAR TO CEILING OR FLOOR AS POSSIBLE TO REDUCE RUN LENGTH.
- CEILING MOUNTED JUNCTION BOXES ILLUSTRATED ON THIS PLAN MUST BE INSTALLED FLUSH WITH FINISHED CEILING.
- ALL DUCTWORK MUST MEET THE FOLLOWING REQUIREMENTS:
 - DUCTWORK SHALL BE METAL WITH DIVIDERS AND HAVE REMOVABLE, ACCESSIBLE COVERS.
 - DUCTWORK SHALL BE CERTIFIED/RATED FOR ELECTRICAL POWER PURPOSES.
 - DUCTWORK SHALL BE ELECTRICALLY AND MECHANICALLY BONDED TOGETHER IN AN APPROVED MANNER.
 - PVC AS A SUBSTITUTE MUST BE USED IN ACCORDANCE WITH ALL LOCAL AND NATIONAL CODES.
- ALL OPENINGS IN ACCESS FLOORING ARE TO BE CUT OUT AND FINISHED OFF WITH GROMMET MATERIAL BY THE CUSTOMER'S CONTRACTOR.
- GENERAL CONTRACTOR TO INSERT PULL CORDS FOR ALL CABLE RUN CONDUITS BETWEEN THE EQUIPMENT ROOM AND THE OPERATORS CONTROL ROOM.
- 10 FOOT PIGTAILS AT ALL JUNCTION POINTS.
- ALL WIRING MUST BE THIN OR TFFN STRANDED COPPER THERMOPLASTIC 600 VOLT OR EQUIVALENT INSULATION, ALUMINUM OR SOLID WIRES ARE NOT ALLOWED.
- GROUNDING IS CRITICAL TO EQUIPMENT FUNCTION AND PATIENT SAFETY. SITE MUST CONFORM TO WIRING SPECIFICATIONS SHOWN ON THIS PLAN.

A COMPLETE REVIEW OF ELECTRICAL OPTIONS MUST BE DISCUSSED WITH YOUR GE PROJECT MANAGER OF INSTALLATIONS, BEFORE BIDDING BEGINS.

CONDUIT RUNS:
INNOVA 2100/ 3100/ 4100 (WITH 20-KVA UPS)

CONDUITS REQUIRED FOR BASE SYSTEM (CONDUITS ARE LOCATED BELOW FLOOR)

LC1	TO	C1/C2	FOUR 4" CNDS.
LC1	TO	LUS	ONE 4" & ONE 2" CND.
LUS	TO	C1/C2	ONE 4" & ONE 2" CND. (FOR ACHA INSPECTION)
WBC1	TO	C1/C2	ONE 3 1/2" & TWO 2 1/2" CNDS.

NOTE: SEE E2 PAGE FOR MAXIMUM RUN LENGTHS

CONDUITS REQUIRED FROM POINT "XRLC" (CONDUITS ARE LOCATED ABOVE CEILING)

XRLC	TO	XRL1	ONE 1/2" CND.
XRLC	TO	RML1	ONE 1/2" CND.
XRLC	TO	C2	ONE 1/2" CND.
XRLC	TO	120-V 1Φ POWER	ONE 1/2" CND. AS REQ'D

NOTE: SEE E2 PAGE FOR MAXIMUM RUN LENGTHS

CONDUITS REQUIRED FROM POINT "WBC" (CONDUITS ARE LOCATED BELOW FLOOR)

WBC	TO	LUS	ONE 2 1/2" CND.
-----	----	-----	-----------------

NOTE: SEE E2 PAGE FOR MAXIMUM RUN LENGTHS

CONDUITS REQUIRED FROM POINT "XRB" (CONDUITS ARE LOCATED ABOVE CEILING)

XRB	TO	POWER STRIP IN CONTROL AREA	ONE 1/2" CND.
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NOTE: SEE E2 PAGE FOR MAXIMUM RUN LENGTHS

CONDUITS REQUIRED FROM POINT "WBM1" (CONDUITS ARE LOCATED ABOVE CEILING)

WBM1	TO	C1	TWO 2 1/2" CNDS.
WBM1	TO	WBC1	ONE 2 1/2" CND.

NOTE: SEE E2 PAGE FOR MAXIMUM RUN LENGTHS

CONDUITS REQUIRED FROM POINT "WC" (CONDUIT IS LOCATED IN OR BELOW FLOOR)

WC	TO	LC1	ONE EMPTY 3" CND. (FOR WATER LINES) (RUN TO 12x12x6 BOX AT LC1)
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NOTE: SEE E2 PAGE FOR MAXIMUM RUN LENGTHS

CONDUITS REQUIRED FROM POINT "A" (CONDUITS ARE LOCATED ABOVE CEILING)

A	TO	UPS	TWO CNDS. AS REQ'D.
A	TO	UIB	ONE 1/2" CND.
A	TO	RDS1	ONE 1/2" CND.
A	TO	RDS2	ONE 1/2" CND.
A	TO	C1	ONE CND. AS REQ'D. FOR FOUR CUSTOMER SUPPLIED POWER/ GROUND RUNS
A	TO	C1	ONE 1" CND. FOR TWO GE SUPPLIED SIGNAL CABLES
A	TO	FE	ONE CND. AS REQ'D.
FE	TO	480-V 3Φ POWER	CND. AS REQ'D

NOTE: SEE E2 PAGE FOR MAXIMUM RUN LENGTHS

CONDUITS REQUIRED FOR AN "INJECTOR" (CONDUITS ABOVE CEILING OR BELOW FLOOR)

IE	TO	IH	ONE 2 1/2" CND.
IE	TO	IEC	ONE 2 1/2" CND.

NOTE: SEE E2 PAGE FOR MAXIMUM RUN LENGTHS

CONDUITS REQUIRED FOR A REMOTE "CHILLER" (CONDUITS ABOVE CEILING OR BELOW FLOOR)

CHLR	TO	C1	TWO 2 1/2" CNDS.
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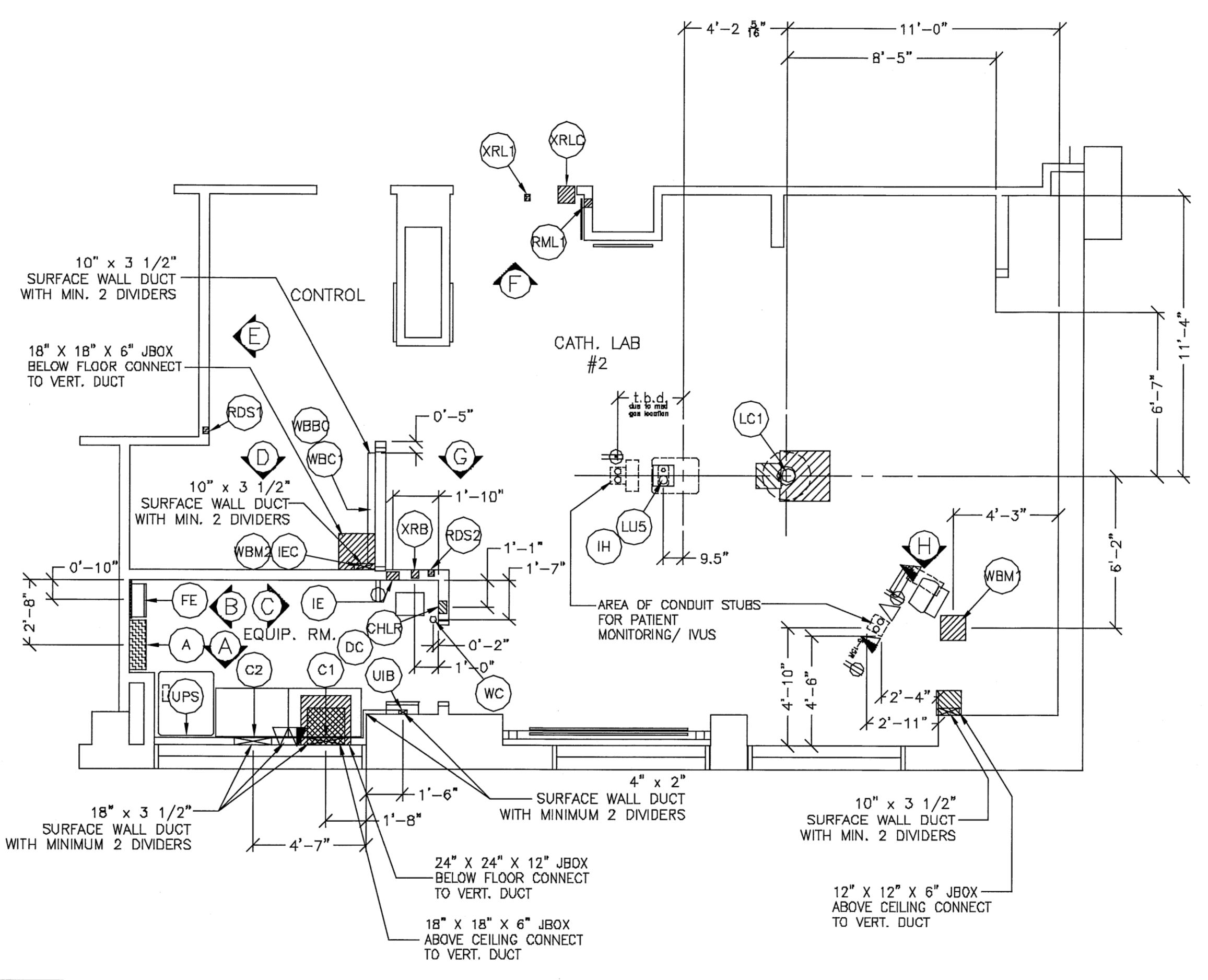
NOTE: SEE E2 PAGE FOR MAXIMUM RUN LENGTHS

CONDUIT RUNS:
PHYSIO MONITORING/ IVUS (BY GE)

CONDUITS REQUIRED FOR GENERIC PHYSIO

PC/IVUS	TO	WBM1	ONE 3" CND. (LOCATED ABOVE CEILING)
PC	TO	TRAM	ONE 3" CND. (LOCATED IN/BELOW FLOOR)
IVUS	TO	TRAM	ONE 3" CND. (LOCATED IN/BELOW FLOOR)

NOTE: SEE E2 PAGE FOR MAXIMUM RUN LENGTHS



FEEDER TABLE REV. DATE: 03/25/08

* CALCULATIONS BASED UPON NOMINAL VOLTAGE, WIRE SIZE IN AWG. RECOMMENDED FEEDER SIZES FROM DIST. TRANS. TO ROOM DISCONNECT. CALCULATIONS ARE AT NOMINAL VOLTAGE BASED UPON 1/0 WIRE SIZE FROM ROOM DISCONNECT TO POWER CABINET WITH A MAXIMUM RUN OF 25 FT.

* NEUTRAL MUST BE TERMINATED INSIDE THE MAIN DISCONNECT PANEL AND NOT AT ANY GE CABINET.

* THE GROUNDING CONDUCTOR (G) WILL BE A 2 AWG MINIMUM. THIS GROUND WILL RUN FROM THE EQUIPMENT BACK TO THE POWER SOURCE/MAIN GROUND POINT AND ALWAYS TRAVEL IN THE SAME CONDUIT WITH THE FEEDERS AND NEUTRAL.

* MINIMUM WIRE SIZE FOR CIRCUIT BREAKER, BASED ON RECOMMENDED OVERCURRENT PROTECTION.

* FOR A FULL SYSTEM UPS, REFER TO ELECTRICAL DETAILS FOR UPS FEEDER WIRES.

* IF THE FEEDER IS BIGGER THAN 3/0, THE HOSPITAL MUST PROVIDE AND INSTALL A REDUCTION BOX.

RUN LENGTH IN FEET	POWER SUPPLY VOLTAGE											
	324-396		342-418		360-440		378-462		396-484		414-506	
	FEEDER	GROUND	FEEDER	GROUND	FEEDER	GROUND	FEEDER	GROUND	FEEDER	GROUND	FEEDER	GROUND
50	*1/0	(2) *1/0	(2) *1/0	(2) *1/0	(2) *1/0	(2) *1/0	(2) *1/0	(2) *1/0	(2) *1/0	(2) *1/0	(2) *1/0	(2) *1/0
100	*1/0	(2) *1/0	(2) *1/0	(2) *1/0	(2) *1/0	(2) *1/0	(2) *1/0	(2) *1/0	(2) *1/0	(2) *1/0	(2) *1/0	(2) *1/0
150	3/0	(2) 2/0	(2) 2/0	(2) 2/0	(2) 1/0	(2) 1/0	(2) 1/0	(2) 1/0	(2) 1/0	(2) 1/0	(2) 1/0	(2) 1/0
200	4/0	(2) 4/0	(2) 3/0	(2) 3/0	(2) 2/0	(2) 2/0	(2) 2/0	(2) 2/0	(2) 2/0	(2) 2/0	(2) 2/0	(2) 2/0
250	300M	(2) 300M	(2) 250M	(2) 250M	(2) 4/0	(2) 3/0	(2) 3/0	(2) 3/0	(2) 3/0	(2) 3/0	(2) 3/0	(2) 3/0
300	400M	(2) 350M	(2) 300M	(2) 250M	(2) 4/0	(2) 4/0	(2) 4/0	(2) 4/0	(2) 4/0	(2) 4/0	(2) 4/0	(2) 4/0
350	600M	(2) 500M	(2) 400M	(2) 350M	(2) 350M	(2) 350M	(2) 250M	(2) 250M	(2) 250M	(2) 250M	(2) 250M	(2) 250M
400	700M	(2) 600M	(2) 500M	(2) 400M	(2) 350M	(2) 300M	(2) 300M	(2) 300M	(2) 300M	(2) 300M	(2) 300M	(2) 300M

CONTACT YOUR LOCAL CARDIO VASCULAR PROJECT MANAGER, INSTALLATIONS (CVPMI) FOR ANY MODIFICATIONS TO ROOM LAYOUT.

BEFORE PROCEEDING WITH INSTALLATION OF CEILING MOUNTED FIXTURES, PLEASE REFER TO STRUCTURAL SHEET S1 FOR LOCATIONS OF UNSTRUCTURED AND OTHER STRUCTURAL SUPPORTED EQUIPMENT IN CEILING.

NOTE: SUGGESTION THAT COLOR CODED PHASE CABLING BE USED EITHER BY COLORED WIRES OR COLORED TAPE.

Drawn by: Tim Taylor Octet no.: 5803739
GE Installation
Project Manager: TIM MODLIN
Telephone no.: 415-305-5703

POINT	DESCRIPTION	QTY.	HARDWARE	DETAIL NO., SHT. E3
A	MAIN DISCONNECT	1	150-AMP PANEL INCLUDED IN ORDER	ELEC-142
C1	ATLAS CABINET	1	32 IN. OF GROMMET MATERIAL FOR AN 8 X 8 IN. OPENING IN DUCT COVER	ELEC-5 ELEC-6 ELEC-8
C2	ATLAS CABINET	1	32 IN. OF GROMMET MATERIAL FOR AN 8 X 8 IN. OPENING IN DUCT COVER	ELEC-5 ELEC-6
CHLR	RECIRCULATING WATER CHILLER	1	BLANK COVERPLATE 1 1/2 IN. DIA. CHASE NIPPLE 1/2 X 6 X 4 IN. BOX	ELEC-8
DC	DETECTOR CHILLER	1	BLANK COVERPLATE 1 1/2 IN. DIA. CHASE NIPPLE 1/2 X 6 X 4 IN. BOX	ELEC-8
FE	FILTER ENCLOSURE	1	CONNECTION TO BE DETERMINED	
IE	INJECTOR ELECTRONICS	1	COVERPLATE 1 1/2 IN. DIA. CHASE NIPPLE 1/2 X 6 X 4 IN. BOX	ELEC-8
IEC	INJECTOR CONTROL	1	12 IN. OF GROMMET MATERIAL FOR A 3 X 3 IN. OPENING IN DUCT COVER AT TABLE BASE	ELEC-5 ELEC-6
IH	INJECTOR HEAD	1	EXTERNALLY CONNECTED AT TABLE BASE	
LC1	INNOVA LC	1	24 X 24 X 12 IN. BOX SUITABLE LENGTH OF 6 IN. THREADED CONDUIT OR PIPE 6 IN. DIA. LOCKNUTS 6 IN. DIA. LOCKNUTS GE SUPPLIED FITTING 12 X 12 X 6 IN. BOX 1/2 IN. DIA. BUSHING 1 IN. DIA. BUSHING	ELEC-100
LUS	OMEGA TABLE	1	COVERPLATE 1 1/2 X 1 1/2 IN. GROUND BAR WITH 1/4 IN. MIN. MACHINE SCREWS. 1/2 X 12 X 6 IN. BOX 1/2 IN. DIA. BUSHING & LOCKNUT	ELEC-9 ELEC-48
RDS1	EMERGENCY OFF	1	PROVIDE A SINGLE GANG, 2 1/8 IN. DEEP, FLUSH MTD. WALL BOX.	ELEC-16
RDS2	EMERGENCY OFF	1	PROVIDE A SINGLE GANG, 2 1/8 IN. DEEP, FLUSH MTD. WALL BOX.	ELEC-16
RML1	ROOM LIGHTS AVAILABLE FROM GE, CALL 800-558-5102	1	COVERPLATE SINGLE GANG BOX WE4502SS 24V X-RAY ROOM WARNING LIGHT AND ROOM LIGHT CONTROLLER OR EQUIVALENT.	ELEC-157
UIB	UPS INTERFACE BOX	1	12 IN. OF GROMMET MATERIAL FOR A 3 X 3 IN. OPENING IN DUCT COVER	ELEC-5 ELEC-6
UPS	UPS CABINET	1	6 FT. OF 2 IN. FLEX CONDUIT AND CONNECTORS 32 IN. OF GROMMET MATERIAL FOR AN 8 X 8 IN. OPENING IN DUCT COVER	ELEC-5 ELEC-6
WBC	BOLUS WALLBOX	1	12 IN. OF GROMMET MATERIAL FOR A 3 X 3 IN. OPENING IN DUCT COVER	ELEC-5A ELEC-6
WBC1	OPERATORS CONSOLE	1	12 IN. OF GROMMET MATERIAL FOR A 3 X 3 IN. OPENING IN DUCT COVER	ELEC-5A ELEC-6
WBM1	TV MONITOR	1	12 X 12 X 6 IN. FLUSH CEILING BOX 1/2 IN. DIA. CHASE NIPPLE	ELEC-8
WBM2	TV MONITOR	1	12 IN. OF GROMMET MATERIAL FOR A 3 X 3 IN. OPENING IN DUCT COVER	ELEC-5 ELEC-6
WC	WATER CHILLER HOSE OUTLET	1	3 IN. CONDUIT STUBBED 2 IN. ABOVE FLOOR	ELEC-9
XRB	XS BUZZER (LOCATED ABOVE CEILING)	1	4 X 4 X 4 IN. BOX COVERPLATE 1/2 IN. DIA. CHASE NIPPLE	ELEC-8
XRL1	WARNING LIGHT	1	COVERPLATE SINGLE GANG BOX 1 X-RAY OR INCANDESCENT LIGHT FIXTURES - DO NOT USE FLUORESCENT FIXTURES.	ELEC-157
XRLC	WARNING LIGHT CONTROLLER AVAILABLE FROM GE/HC, CALL 800-558-5102 OR LOCAL GE INSTALLATION PROJECT MGR.	1	E4502SS WARNING LIGHT & ROOM LIGHT CONTROL OR EQUIVALENT MAX 24V CONTROLLER	ELEC-157

CONTRACTOR SUPPLIED AND INSTALLED WIRING
ELECTRICAL CONTRACTOR SHALL RING OUT AND TAG ALL WIRES AT BOTH ENDS.

WIRE RUN, FROM - TO	QUANTITY, WIRE SIZE/COLOR
3 PHASE > FE	3-BLACK, 1-WHITE, 1-GREEN - REFER TO FEEDER TABLE
FE > A	3-BLACK, 1-WHITE, 1-GREEN - REFER TO FEEDER TABLE
A > C1 (JEDI)	3-ND. 1/0 BLACK, 1-ND. 1/0 GREEN
A > C1 (PDU)	2-ND. 10 BLACK, 1-ND. 10 GREEN
A > CHLR	3-ND. 10 BLACK, 1-ND. 10 GREEN
A > C2	3-ND. 8 BLACK, 1-ND. 8 GREEN
A > RDS1	1-ND. 14 BLACK, 1-ND. 14 WHITE, 1-ND. 14 GREEN
A > RDS2	1-ND. 14 BLACK, 1-ND. 14 WHITE, 1-ND. 14 GREEN
XRLC > C2	1-ND. 14 BLACK, 1-ND. 14 WHITE, 1-ND. 14 GREEN
XRL1 > XRLC	1-ND. 14 BLACK, 1-ND. 14 WHITE, 1-ND. 14 GREEN
XRLC > 1 PHASE	1-ND. 14 BLACK, 1-ND. 14 WHITE, 1-ND. 14 GREEN
RML1 > XRLC	1-ND. 14 BLACK, 1-ND. 14 WHITE, 1-ND. 14 GREEN
A > UPS	3-ND. 6 BLACK, 1-ND. 6 GREEN, 6-ND. 8 BLACK 2-ND. 8 WHITE, 2-ND. 8 GREEN

GE Healthcare
Installation Services - Design Center
Waukesha, Wisconsin

SHEET TITLE: ELECTRICAL LAYOUT
MODALITY TYPE: INNOVA 3100

PROJECT TITLE: ROOM NO. CATH LAB 2
MAINE MEDICAL CENTER
PORTLAND, MAINE

PROJECT 090498 REVISION 00
DATE: 02-27-09
DRAWN BY: TST
CHECKED BY: TST
GON NO: 2770927
GON DT: 02-23-09

REVISION HISTORY:

SHEET
E1

This drawing is based on Sketch No.: Option 4 B8-09009 tjm2