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

ELECTRICAL PLAN

RECOMMENDED CEILING HEIGHT = 8'-9"

1 A

B

1 C

1 D

FEEDER TABLE – MSK EXTREMITY

- CALCULATIONS BASED UPON NOMINAL VOLTAGE, WIRE SIZE IN AWG.
- RECOMMENDED FEEDER SIZES FROM DIST. TRANS. TO DEDICATED OUTLETS.
- THE GROUNDING CONDUCTOR ( ) SHALL BE COPPER AND WILL RUN IN THE SAME CONDUIT AS THE FEEDERS FROM EQUIPMENT BACK TO THE ROOM POWER SOURCE GROUNDING POINT.
- THE GROUND CONDUCTOR TO BE THE SAME SIZE AS THE FEEDER.
- IF THE GENERAL ELECTRIC EQUIPMENT IS BEING FED BY A DELTA SECONDARY, IT IS RECOMMENDED THAT THE B PHASE ON THE SECONDARY BE CONNECTED TO GROUND TO PREVENT DAMAGE TO THE SYSTEM.

RUN LENGTH IN FEET	POWER SUPPLY VOLTAGE									
	180–220 200		**187–229 208**		342–418 380		360–440 400		374–455 415	
	FEEDER	GROUND	FEEDER	GROUND	FEEDER	GROUND	FEEDER	GROUND	FEEDER	GROUND
100	8	(8)	**8**	**(8)**	12	(12)	14	(14)	14	(14)
150	6	(6)	**6**	**(6)**	10	(10)	12	(12)	12	(12)
200	4	(4)	**4**	**(4)**	10	(10)	10	(10)	10	(10)
250	3	(3)	**4**	**(4)**	8	(8)	10	(10)	10	(10)
300	2	(2)	**3**	**(3)**	8	(8)	8	(8)	8	(8)
350	2	(2)	**2**	**(2)**	8	(8)	8	(8)	8	(8)
400	1	(1)	**1**	**(1)**	6	(6)	8	(8)	8	(8)
450	1/0	(1/0)	**1**	**(1)**	6	(6)	8	(6)	8	(6)

REV. DATE: 04/20/10

PLEASE SEE BELOW FOR ADDITIONAL REQUIRED CONDUIT RUNS AND SIZES.

JUNCTION POINT NOTES

- ALL JUNCTION BOXES, CONDUIT, DUCT, DUCT DIVIDERS, SWITCHES, CIRCUIT BREAKERS, ETC., ARE TO BE SUPPLIED AND INSTALLED BY CUSTOMERS 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:
  1. DUCTWORK SHALL BE METAL WITH DIVIDERS AND HAVE REMOVABLE, ACCESSIBLE COVERS.
  2. DUCTWORK SHALL BE CERTIFIED/RATED FOR ELECTRICAL POWER PURPOSES.
  3. DUCTWORK SHALL BE ELECTRICALLY AND MECHANICALLY BONDED TOGETHER IN AN APPROVED MANNER.
  4. 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 CUSTOMERS 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 THHN 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.

JUNCTION POINT DESCRIPTIONS

THE FOLLOWING MATERIALS ARE TO BE SUPPLIED AND INSTALLED BY THE CUSTOMER'S ELECTRICAL CONTRACTOR

○ POINT	DESCRIPTION	QTY.	HARDWARE	DETAIL NO., SHT. E3
EQ	EMERGENCY QUENCH BUTTON	1	SINGLE GANG 2 1/2 IN. DEEP FLUSH MOUNTED JUNCTION BOX.	
HC	HELIUM COMPRESSOR	1	48 IN. OF GROMMET MATERIAL FOR A 3 x 3 IN. OPENING IN DUCT COVER.	ELEC-5 ELEC-6
MA	MAGNET ASSEMBLY	1	28 IN. OF GROMMET MATERIAL	ELEC-14
OC	OPERATORS CONSOLE	1	48 IN. OF GROMMET MATERIAL FOR A 3 x 3 IN. OPENING IN DUCT COVER.	ELEC-5 ELEC-6
PP	PENETRATION PANEL	1	48 IN. OF GROMMET MATERIAL FOR A 3 x 3 IN. OPENING IN DUCT COVER.	ELEC-5 ELEC-6
SE	SYSTEM ELECTRONICS	1 1 1 1	CONNECT EXTERNALLY 9 x 6 x 4 IN. BOX 1-1/2 IN. DIA. CHASE NIPPLE COVERPLATE	ELEC-5 ELEC-8 ELEC-5
MU	MUSIC SYSTEM new music	1	SAME ROUTING AS OW	

ADDITIONAL CONDUIT RUNS (CONTRACTOR SUPPLIED AND INSTALLED)

CONDUITS REQUIRED FOR BASE SYSTEM

REV DATE: 07/07/10

EQ	TO	OC	ONE 3/4" CND.
OC	TO	SE	TWO 2 1/2" CND.

NOTE: SEE EQUIPMENT LIST FOR CALL OUTS

ELECTRICAL OUTLET LEGEND

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

- RF — DUPLEX HOSPITAL GRADE, DEDICATED OUTLET 120-V, SINGLE PHASE OUTLET ROUTED THROUGH RF FILTER
- NETWORK OUTLET (SEE ELECTRICAL DETAILS ELEC-83 AND ELEC-84 OR ELEC-87)
- DEDICATED TELEPHONE LINE(S) (SEE ELECTRICAL DETAIL ELEC-1 OR ELEC-87)
- L15-30R — THREE PHASE 208V, 30A, 4 WIRE, L15-30R TWIST LOCK, 18" A.F.F.
- L21-30R — THREE PHASE 208V, 30A, 5 WIRE, L21-30R TWIST LOCK, 18" A.F.F.
- 15A — SINGLE PHASE 120V, 15A, QUAD U-GROUND RECEPTACLE, 18" A.F.F.

GE Project Manager: JIM DOMBROSKI
Telephone: 603-934-3739

THE GE HPI TECHNICAL SUPPORT GROUP IS AN ADDITIONAL RESOURCE THAT CAN PROVIDE ANSWERS FOR GENERAL GE PRODUCT SITING QUESTIONS AND CAN BE REACHED AT (877)-305-9977

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
RF GND STUD > RF FILTER	1-GREEN (SIZE AS REQUIRED FOR EACH FILTER)

THIS SHEET IS PART OF THE DOCUMENT SET LISTED ON SHEET C1 AND SHOULD NOT BE SEPARATED

This drawing is based on Sketch No.: 13nef005

RQ – 133811 PIM R3

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 05/16/13
Planner: Benjamin Wallace

GE Healthcare
Healthcare Project Implementation – Design
Milwaukee, WI

SHEET TITLE: ELECTRICAL LAYOUT
MODALITY TYPE: OPTIMA MR430s

THIS PLAN IS SUBMITTED TO SUGGEST LOCATION OF GE HEALTHCARE EQUIPMENT AND ASSOCIATED APPARATUS, ELECTRICAL WIRING DETAILS AND ROOM ARRANGEMENTS. IN NO WAY DOES THIS PLAN SUPERSEDE ANY FUTURE SITE PLANNING DOCUMENTS TO ACTUAL EQUIPMENT EXPECTED TO BE INSTALLED. IT IS NOT TO BE USED FOR ACTUAL CONSTRUCTION PURPOSES, HOWEVER, AND THE COMPANY CANNOT ACCEPT RESPONSIBILITY FOR ANY DAMAGES RESULTING THEREFROM.

PROJECT TITLE:
ORTHOPAEDIC ASSOCIATES OF PORTLAND
PORTLAND, MAINE

PROJECT	REVISION
130260	01

DATE:	22.Jan.13
DRAWN BY:	TMS
CHECKED BY:	PMM
GON NO:	4057872
GON DT:	16.JAN.13

REVISION HISTORY:
1 JGA – 07.Mar.13
CHECKED BY: PMM

SHEET
E1