

SYMBOLS LIST FOR WIRING DIAGRAMS AND DETAILS

1. SOME SYMBOLS MAY NOT BE USED.

SYMBOL

DESCRIPTION

100/3

CIRCUIT BREAKER (SIZE AS NOTED)

PANELBOARD

T1

POWER TRANSFORMER, DESIGNATION AS NOTED

#6

GROUNDING ELECTRODE AND CONDUCTOR (CONDUCTOR SIZE AS NOTED)

125/3 3R NF

COMBINATION MOTOR STARTER (STARTER SIZE, FUSE SIZE, NO. OF POLES -AS NOTED) "3R" DENOTES NEMA "3R" ENCLOSURE, "NF"=NONFUSED

125/3 3R NF

MAGNETIC MOTOR STARTER (STARTER SIZE, FUSE SIZE, NO. OF POLES -AS NOTED) "3R" DENOTES NEMA "3R" ENCLOSURE, "NF"=NONFUSED

30/20/3 NF

SAFETY SWITCH (SWITCH SIZE, FUSE SIZE, NO. OF POLES AS NOTED) NF=NONFUSED

WP

WEATHERPROOF

CP

CONTROL PANEL (BY OTHERS)

VFD

VARIABLE FREQUENCY DRIVE

M

MOTOR

NOTE:
ALL EQUIPMENT AND FEEDERS SHOWN IN SOLID, LIGHTWEIGHT LINES INDICATE EXISTING EQUIPMENT AND FEEDERS TO REMAIN. ALL EQUIPMENT AND FEEDERS SHOWN IN DASHED, LIGHTWEIGHT LINES INDICATE EXISTING EQUIPMENT AND FEEDERS TO BE DISCONNECTED AND REMOVED. ALL HEAVYWEIGHT LINES INDICATE NEW EQUIPMENT AND FEEDERS. PROVIDE NEW FUSES WHERE NEW FEEDERS ARE BEING CONNECTED TO EXISTING FUSIBLE SWITCHES.

ONE LINE DIAGRAM-FEEDER SCHEDULE								
OVERCURRENT PROTECTION AMPACITY	NOTE NUMBER	NUMBER OF SETS	PHASE WIRES QUANTITY - SIZE	NEUTRAL WIRE QUANTITY - SIZE	GROUND SIZE	ISOLATED GROUND SIZE	CONDUIT SIZE PER SET	COMMENTS/REMARKS
70	4	1	3-4 AWG	-	8 AWG	-	1"	3 PHASE EQUIPMENT AND MOTOR FEEDERS
90	6	1	3-2 AWG	-	8 AWG	-	1 1/4"	
150	1	1	3-1/0 AWG	1-1/0 AWG	6 AWG	-	2"	POWER PANELS, DISTRIBUTION PANELBOARDS, AND SWITCHBOARDS
225	2	1	3-4/0 AWG	1-4/0 AWG	4 AWG	-	2 1/2"	
400	3	1	3-600 KCMIL	1-600 KCMIL	3 AWG	-	3 1/2"	
100	5	1	3-1 AWG	1-1 AWG	8 AWG	-	1 1/2"	

A WIRING DIAGRAM
NORMAL POWER SYSTEM N.T.S.

B WIRING DIAGRAM
ESSENTIAL POWER SYSTEM N.T.S.

C MATV RISER DIAGRAM
N.T.S.

D PA SYSTEM RISER DIAGRAM
N.T.S.

E NURSE CALL/CODE BLUE SYSTEM RISER DIAGRAM
N.T.S.

F VOICE/DATA RISER DIAGRAM
N.T.S.

- GENERAL NOTES
- MAINTAIN EXISTING PANELBOARDS AND BRANCH FEEDERS UNTIL NEW PANELBOARDS ARE INSTALLED AND ENERGIZED.
 - PROVIDE #10 AWG GROUNDING CONDUCTOR BETWEEN ALL EXISTING AND NEW PANELBOARDS TO COMPLY WITH NEC-617.14.
- CODED NOTES
- EXISTING PANELBOARD TO REMAIN AND BE REUSED.
 - EXISTING FEEDER TO REMAIN AND BE REUSED.
 - EXISTING PANELBOARD TO BE DISCONNECTED AND REMOVED.
 - EXISTING FEEDER TO BE DISCONNECTED AND REMOVED.
 - TIE INTO AND INTERCEPT EXISTING FEEDER AS REQUIRED. COORDINATE EXACT LOCATION.
 - NEW PANELBOARD.
 - EXISTING TRANSFORMER TO BE DISCONNECTED AND REMOVED.
 - NEW 75 KVA 480-208/120 V, 3 Ø, 4 W DRY TYPE TRANSFORMER
 - FOR EQUIPMENT LOCATION SEE FLOOR PLANS.
 - NEW TRANSFORMER (30 KVA, 480/277/120 V).

NO. REVISIONS/SUBMISSIONS DATE

Consultant

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Seal

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A Joint Venture

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Drawing Title
ELECTRICAL
ONE LINE DIAGRAM

Approved: Project Director
Project Director

Project Title
RENOVATE EIGHT EAST FOR
ENDOSCOPY & CARDIOLOGY
IC VAHCS

Location
IOWA CITY, IOWA

Date
07/27/2012

Checked
RRL

Drawn
ERC

Project Number
636A8-12-005

Building Number
1

Drawing Number
1-E6

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Office of
Construction
and Facilities
Management

Department of
Veterans Affairs