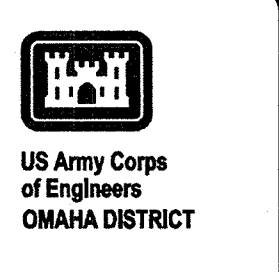


**NOTES:**

- ALL ELECTRICAL INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE 2011 EDITION OF THE NATIONAL ELECTRICAL CODE (NEC NFPA 70) AND THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND PROJECT SPECIFICATIONS AND APPLICABLE CODES AND STANDARDS..
- ALL BUILDING PENETRATIONS SHALL BE SEALED WITH A FIRE BLOCK SEALANT TO PREVENT WATER FROM ENTERING THE INTERIOR. ALL PANEL ENTRY PENETRATIONS SHALL UTILIZE MYERS HUBS WITH GROUNDING BUSHINGS.
- ALL CONDUIT ROUTING IS SHOWN DIAGRAMMATIC. CONTRACTOR SHALL VERIFY LOCATION AND ROUTING BEFORE INSTALLATION. COORDINATE INSTALLATION WITH OTHER CRAFTS BEFORE INSTALLING CONDUITS, PULL BOXES AS REQUIRED, PANELS, AND DEVICES.
- ALL SHUT DOWN WORK REQUIRED SHALL BE PLANNED AND APPROVED BY THE STATION BEFORE PROCEEDING. PROVISIONS SHALL BE PROVIDED TO MAINTAIN SERVICE DURING SHUTDOWN PERIODS.
- CONTRACTOR SHALL VERIFY ELECTRICAL PHASE ARRANGEMENTS / CONNECTIONS, MAKING ADJUSTMENTS AS REQUIRED, MATCHING THE NEW INSTALLED SYSTEM(S) TO THE EXISTING FACILITIES SYSTEM. NEW PANEL CONNECTIONS TO EXISTING EQUIPMENT SHALL BE VERIFIED BEFORE APPLICATION OF POWER. FACILITIES ENGINEER SHALL BE PRESENT UPON ENERGIZING EQUIPMENT.
- CONDUITS INSTALLED UNDERGROUND SHALL BE PVC COATED RIGID GALVANIZED STEEL. ABOVE GRADE EXTERIOR CONDUITS SHALL BE RIGID GALVANIZED STEEL (RGS), INTERIOR CONDUITS MAY BE ELECTRICAL METALLIC TUBING (EMT).
- DUE TO UNDERGROUND INSTALLATION OBSTRUCTIONS HAND EXCAVATION IS REQUIRED FOR AREA ADJACENT TO THE STATION BUILDING. NO EXCAVATORS OR POWERED EQUIPMENT SHALL BE UTILIZED.



PHASE	REVIEW
Project Manager	
DC Reviewer	
Architectural	
Mechanical	
Plumbing	
Electrical	
Other	

Mark	Date	Approval
0	ISSUED FOR CONSTRUCTION	
	11/7/12	

Designed by:	Checked by:
Drawn by:	Reviewed by:
	Date:
	2012

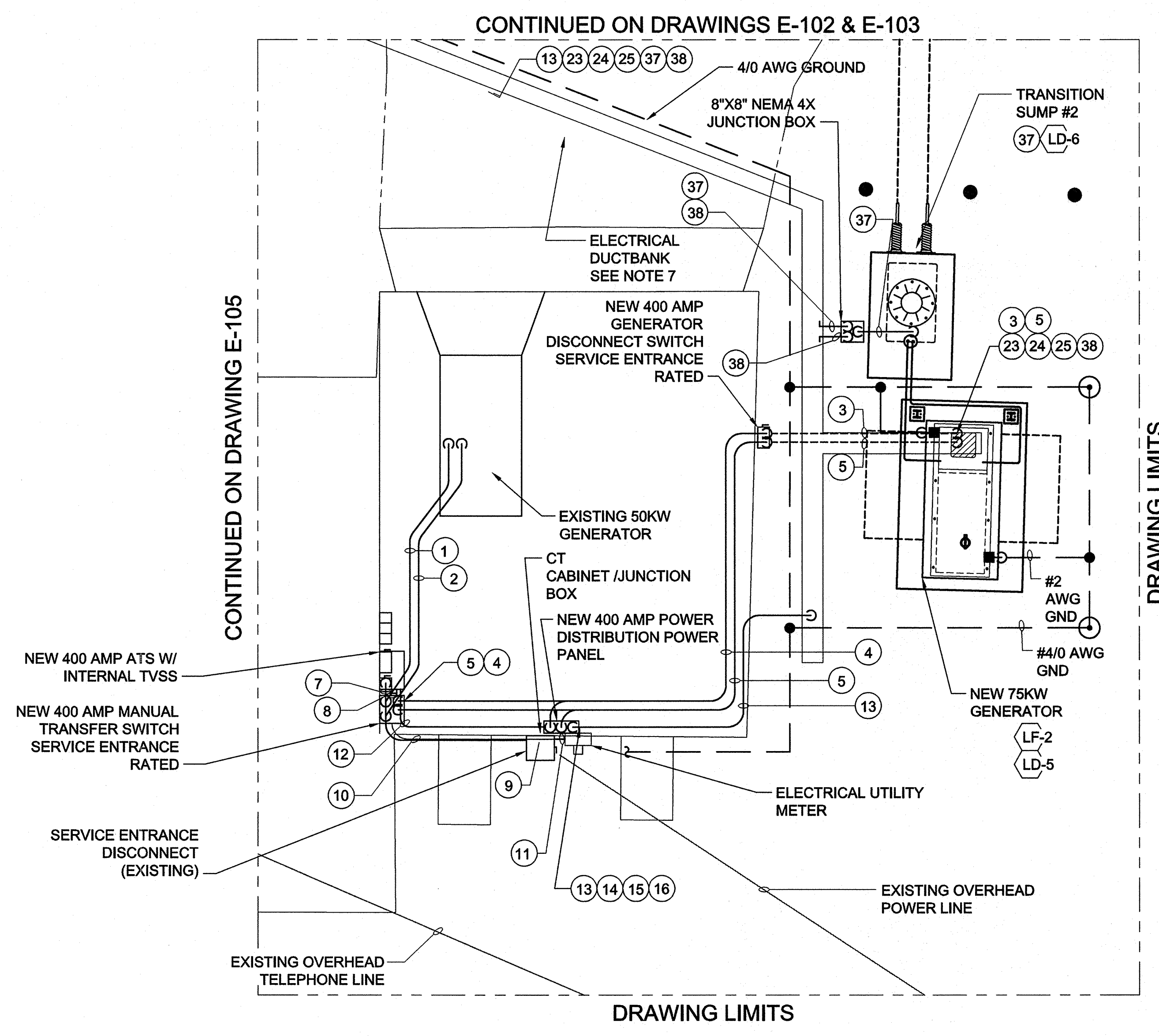
FEMA EMERGENCY RADIO NETWORK ON WIGAN PORTLAND, MAINE

**KBR** Engineering Services by KBR Engineering Co., LLC

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 PORTLAND, ME 04101  
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**GROUNDING & POWER PLAN**

Drawing Number:  
**E-104**



**LEGEND:**

- UNDERGROUND CONDUIT
- ABOVE GROUND CONDUIT
- ⊙ GROUND ROD, 3/4" X 10' SECTIONAL COPPER CLAD
- EXOTHERMIC WELD, SEE DETAIL FOR TYPE
- MECHANICAL GROUND CONNECTION, SEE DETAIL FOR TYPE
- ⊙ GROUNDING TEST WELL
- GROUNDING CONDUCTOR (BURIAL DEPTH 30")
- 4" WIDE (.016" TO .022") COPPER RF BONDING TAPE
- 3"C 7/8" RF COAXIAL CABLE
- ⌒ CONDUIT / CABLE TURNED DOWN
- ⌒ CONDUIT / CABLE TURNED UP
- TT GROUNDING BUS BAR
- ⌒ GROUND CONNECTION TO FOUNDATION REBAR LOCATION AT LOWEST LEVEL (UFER GROUND)
- ⌒ HIGH PRESSURE SODIUM WALL MOUNTED FIXTURE, 70 WATT, 120 VAC, FURNISHED WITH MODULES. CONTRACTOR SHALL MOUNT LIGHTS AND DISCONNECT THE INTERGAL PHOTO ELECTRIC CELL(S). T.O.F. ELEVATION 9'-0" A.F.G.
- XX CABLE NUMBER (SEE E-403)
- XXX-X INSTRUMENT TAG
- XX E-5XX DETAIL/SHEET #

**GROUNDING & POWER PLAN**

E-101 SCALE: 1/4"=1'-0"

1' 0' 1' 5' 10' 15'

1/4"=1'-0"

D  
C  
B  
A

CONTINUED ON DRAWING E-105

CONTINUED ON DRAWINGS E-102 & E-103

DRAWING LIMITS

DRAWING LIMITS