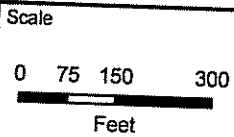


Approximate Location of:

- Proposed Conduit Trench Alignment
- Utility Poles
- Streams
- Wetland Edge
- Oil Pipeline
- Right-Of-Way Boundary
- Transmission Line
- Flood Hazard Zone
- Non-Community WHPA
- Riverbank Wetland
- Perimeter Wetland

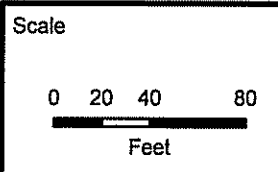
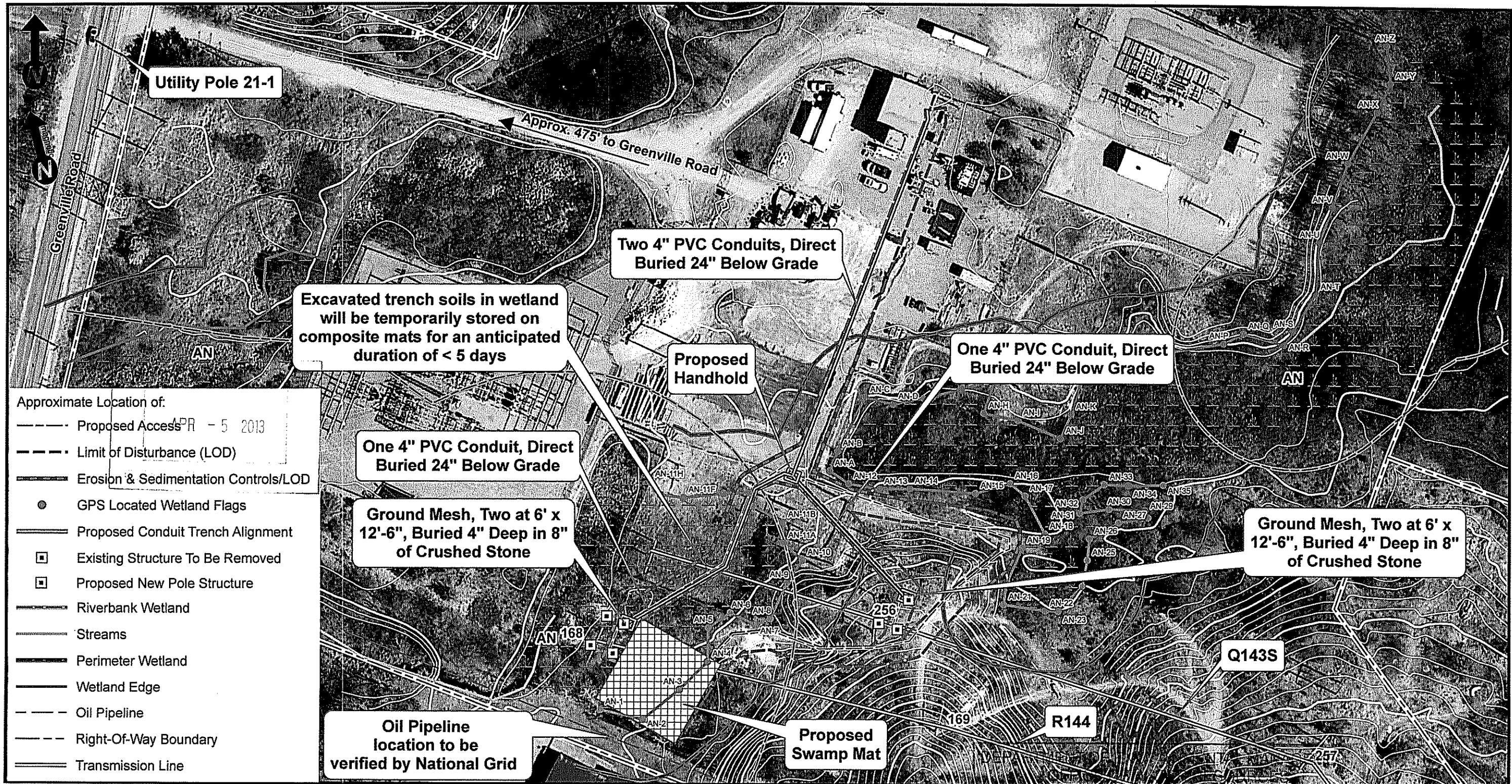


Q143S / R144 REFURBISHMENT PROJECT
Woonsocket Substation Conduit and Grounding

Sheet 1 of 3
 A.P. 9, Lots 599 and 633, Greenville Rd, North Smithfield, RI

Sources: 2011 RIGIS
 Orthophotography,
 RIGIS Data, T-Sheets,
 M&A Wetland Flags

nationalgrid



Q143S / R144 REFURBISHMENT PROJECT
Woonsocket Substation Conduit and Grounding

Sheet 2 of 3

A.P. 9, Lots 599 and 633, Greenville Rd, North Smithfield, RI

FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS

AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED JUN 05 2013 FILE # 13-0057
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Sources: 2011 RIGIS
 Orthophotography,
 National Grid Maps,
 M&A Field Data
 (See Notes Page)

nationalgrid

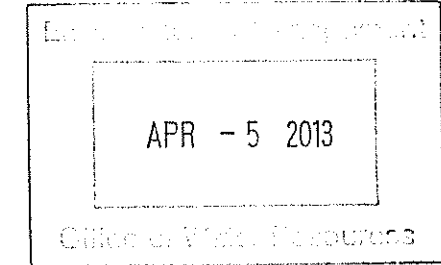
Nancy L. Freeman

SHEET 2 SOURCES:

2011 RIDEM Multispectral Orthophotography of Rhode Island, originators Rhode Island Department of Environmental Management and the United States Geological Survey, published 12/15/2011
This 6" Ground Sample Distance (GSD) digital ortho imagery was compiled to meet a 0.76 meter (2.5') horizontal accuracy at 95% confidence level(0.44-meters Root Mean Squared (RMSE) Error XY (0.31 meter RMSE X or Y) based on NSSDA testing guidelines. This accuracy requirement is not applicable in areas where the ground is obscured on the aerial imagery by foliage, prevalent smoke, or dense shadow.

Q143S & R144 Refurbishment Project, Woonsocket Substation to Admiral St. Terminal, prepared by The Narragansett Electric Company d/b/a National Grid, Land Surveying Department.
Compiled in 2010 by James W. Sewall Company by photogrammetric methods from color aerial photographs dated November 28, 2010 flown at 7cm GSD.
Ground Control supplied by Sewall and Rhode Island State Plan NAD83 and vertically NAVD88.
This map meets National Map Accuracy Standards for 1"=40' maps with 2' contours.

Mason & Associates, Inc. Field Data: Wetland Flags, Access Routes



EROSION AND SEDIMENT CONTROL NOTES:

All Erosion and Sedimentation (E&S) controls (silt fence and/or hay bales) must be installed prior to the commencement of earthwork along the Limits of Disturbance (LOD) or at the specific areas indicated on the plans. Vegetative clearing may occur prior to installation of such controls, but no grubbing, grading, filling or other soil disturbance shall occur prior to control installation.

Stones, brush, construction debris, litter or other such materials shall not be deposited on the wetland side of E & S controls.

All E&S controls must be properly maintained and must remain in place until soils have been stabilized to the satisfaction of either the Building Official, Regulatory Agency staff, Site Engineer and/or the Environmental Consultant. E&S controls are to be inspected weekly and immediately following all precipitation events that include rainfall of 1.0" or more or which produces stormwater runoff. All E&S controls shall be maintained by the Contractor throughout construction and shall remain in place until vegetative stabilization has been achieved. Once vegetation is established, erosion control materials shall be removed for off-site disposal.

All disturbed soils, either newly created, or exposed, prior to October 15 of any calendar year shall be seeded or protected by that date. Any areas that do not have adequate vegetative stabilization by November 15 of the same year must be stabilized by installing erosion control matting, hay mulch or equivalent.

Soil stockpiles to remain idle more than 30 calendar days are to be ringed with either silt fence or staked hay bales and seeded with a conservation grass seed mixture.

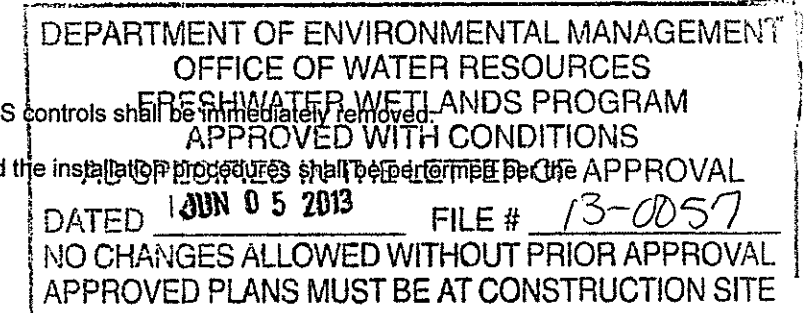
The Contractor is responsible for proper erosion control both on and off-site and shall utilize erosion control measures where needed, regardless of whether the controls are specified on the site plan.

The owner agrees to allow either the Building Official, Regulatory Agency staff, Site Engineer and/or the Environmental Consultant to initiate any additional erosion or sediment control measures as conditions may warrant to minimize siltation or sedimentation. Accessible reserves of E&S controls are to be maintained onsite for routine maintenance and in the event of unanticipated problems requiring immediate response.

The silt fence and/or hay bale line illustrated on these plans shall serve as the strict Limit of Disturbance (LOD) for the project within or adjacent to regulated freshwater or coastal wetland areas.

The toe of fill slopes shall remain at least one foot inside of all E&S controls. Under no circumstance shall the E&S controls be covered with fill material. Any fill material that is placed on or against E&S controls shall be immediately removed.

All silt fence and/or hay bales are to be installed in accordance with the RIDOT Standard Details. All referenced Soil Erosion and Sedimentation controls, including materials used, application rates and the installation procedures shall be performed in accordance with the Rhode Island Soil Erosion and Sedimentation Control Handbook, (RIDEM and USDA, 1989) as appropriate.



Nancy Littleman

GENERAL CONSTRUCTION REQUIREMENTS AND NOTES

Oil absorbing 'pillows' or other means shall be used to remove accumulations of hydrocarbons (oil, grease) that are regularly observed to contain hydrocarbons, that do not evaporate between inspections.

Any refueling, greasing or adjustments of construction vehicles or equipment shall take place at least 100 feet from wetland areas.

Any on-site disposal of solid waste, including earth materials, shall occur outside RIDEM/RICRMC jurisdictional wetlands and outside of the construction areas (unless otherwise designated). Any material not re-used on-site shall be hauled off-site to an authorized, legal location.

All contractors and subcontractors shall be informed that the cleaning of equipment is prohibited in areas where the wash-water will drain directly to wetlands.

The location and depth of existing utilities have been plotted from the latest available information. The utility locations are approximate and may not be all inclusive. The Contractor shall check and verify the locations of all existing utilities, both overhead and underground, and "Dig-Safe" must be notified prior to commencing any construction operations.

The Contractor shall be responsible for removing and legally disposing (R&D) all materials to include, but not be limited to, trees, stumps, unsuitable material, bituminous pavement, etc.

Scale: n/a	<p>Q143S / R144 REFURBISHMENT PROJECT Woonsocket Substation Conduit and Grounding Sheet 3 of 3 A.P. 9, Lots 599 and 633, Greenville Rd, North Smithfield, RI</p>	Sources: n/a nationalgrid
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