

Plans

Issued for: **Review**
RIDEM Request for Preliminary Determination

Date Issued: April 18, 2014

Latest Issue: June 20, 2014

Index

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National Grid Proposed Distribution Feeder Project

Cumberland and Woonsocket, Rhode Island

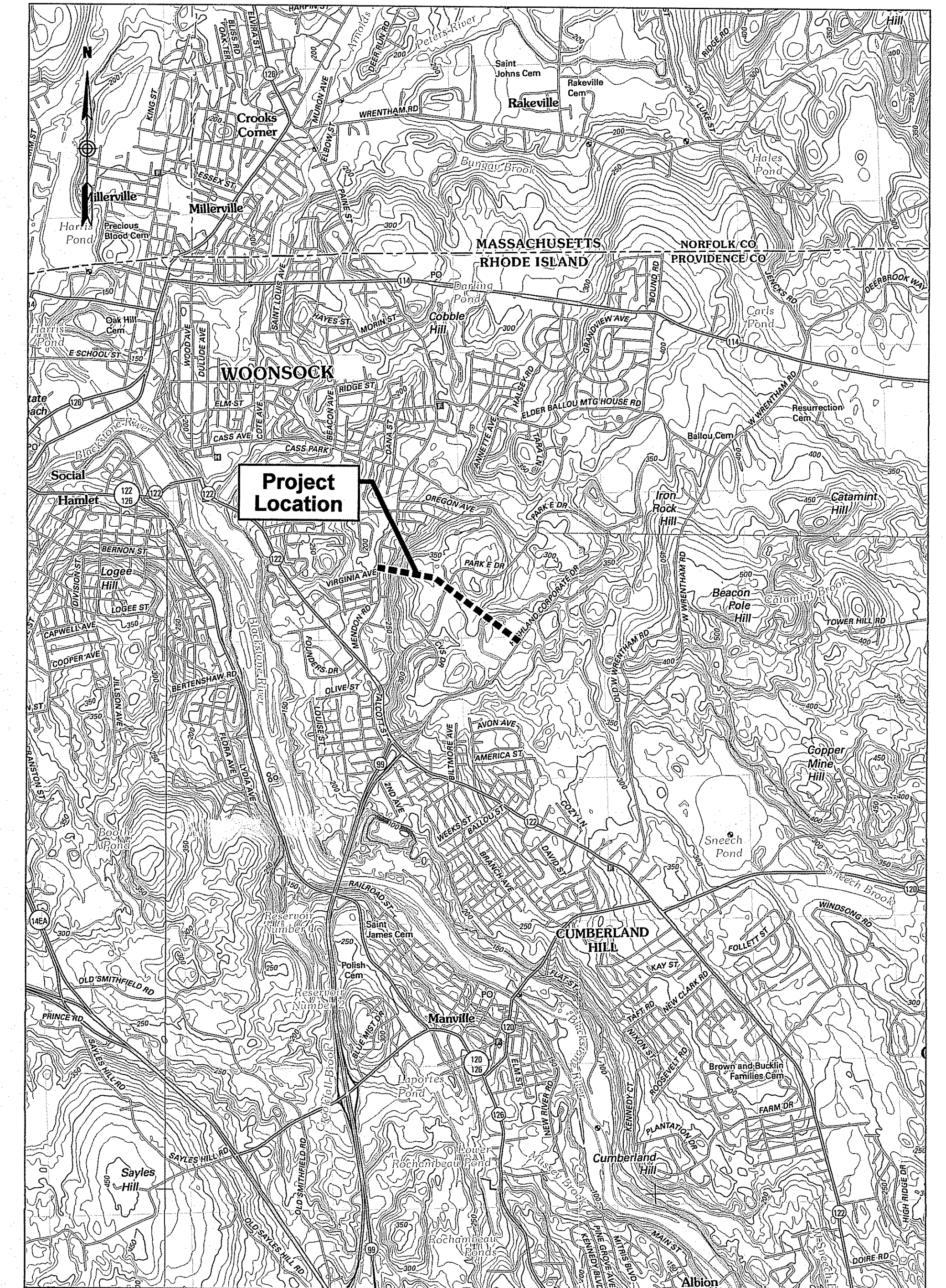


Vanasse Hangen Brustlin, Inc.
Transportation
Land Development
Environmental Services

10 Dorrance Street, Suite 400
Providence, Rhode Island 02903
401-272-8100 / FAX 401-273-9694

Owner/Applicant:

The Narragansett Electric Company
d/b/a National Grid
280 Melrose Street
Providence, Rhode Island 02907
401-784-7490



Locus Map

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED AUG 07 2014 FILE # 14-0094
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Freeman

Saved Tuesday, June 24, 2014 8:23:19 AM DWHTIE Plotted Tuesday, June 24, 2014 8:23:34 AM White, Dave

Notes

Existing Conditions Information:

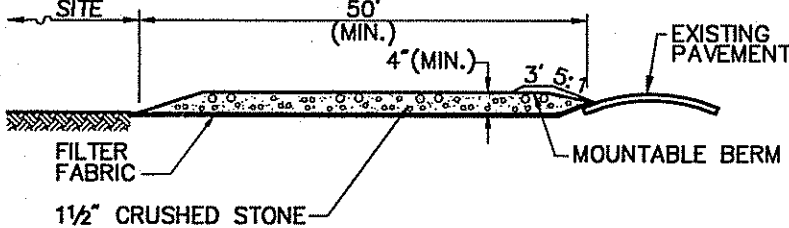
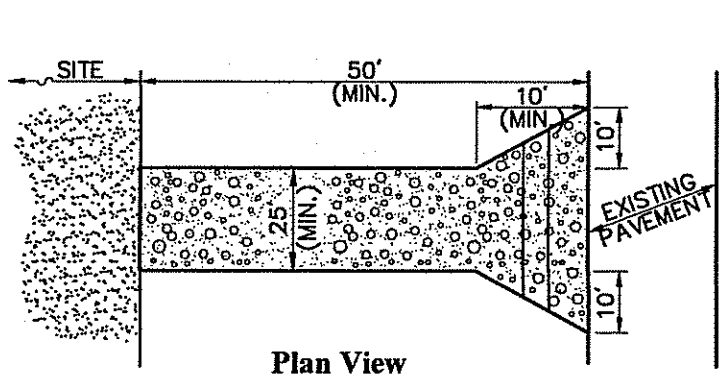
References:

- Intersection of Goldstein Drive and Park East Drive is located approximately 225 feet north of the Project Site.
- Transmission line right-of-way (ROW) limits and easement boundaries based on the following T-sheet provided by the Narragansett Electric Company. ROW and easement lines are approximate and intended to be a graphical representation. This shall not be construed to represent an actual boundary survey and is subject to such changes as an accurate boundary survey may disclose.

T-sheet No.: 5635-1; Dated: November 1922; Last Revised: June 16, 2004
- Except as indicated on specific plan sheets, wetland boundary delineation was performed by Vanasse Hangen Brustlin, Inc., (VHB) Providence, RI. Flag locations were located by a global positioning system (GPS) field survey conducted by VHB in April 2013. This survey conforms to a Class IV standard as defined in the Procedural and Technical Standards for Performing Land Surveying in the State of Rhode Island and Providence Plantations.

Erosion and Sediment Control Notes:

- Prior to starting any Site work, the contractor shall notify appropriate agencies and shall install erosion control measures as shown on the plans and as identified in Federal, State and Local approval documents pertaining to this Project.
- A soil erosion and sedimentation control plan has been designed to protect on-Site wetlands and watercourses and off-Site areas during and after construction. In areas where access is through wetland areas, temporary swamp mats will be placed.
- In areas where high runoff velocities or high sediment loads are expected, straw wattles or bale barriers will be backed with silt fencing.
- Typical, crushed-stone construction entrance/exits will be constructed at each street access point throughout the project area.
- If groundwater is encountered during excavation, a temporary dewatering basin or filter bag will be utilized proximate to the work area outside of wetlands whenever possible to detain and filter turbid pump discharges.
- Once work is complete, final surface treatment consisting of straw or cellulose mulch will be applied to stabilize any disturbed areas. Any soil disturbance associated with equipment access to structures or structure excavations should be mulched with straw at a rate of 100 pounds per 1000 square feet on all disturbed areas as soon as possible but not more than 14 days after the construction activity in that area has temporarily or permanently ceased.
- In accordance with the RIPDES General Permit, all stormwater control measures, disturbed areas, areas used for the storage of materials that are exposed to precipitation (including unstabilized soil stockpiles), discharge locations and locations where vehicles enter or exit the site, as outlined in Part IV of this permit, must be inspected by or under the supervision of the applicant at least once every seven (7) calendar days and within twenty-four (24) hours after any storm event which generates at least 0.25 inches of rainfall per twenty-four (24) hour period and/or after a significant amount of runoff. Such areas shall be inspected for evidence of, or the potential for, pollutants entering the waters of the State or a separate storm sewer system. All BMPs shall be maintained to prevent uncontrolled releases of measurable amounts of sediment or sediment laden water from traveling beyond the limits of disturbance.
- Sediment shall be removed from behind barriers if greater than 6 inches deep or as needed.
- Damaged or deteriorated erosion/sedimentation control items will be repaired immediately after identification.
- Erosion control measures shall remain in place until all disturbed earth has been securely stabilized. Once the Site is stabilized, the hay bales will be removed or broken up and spread as mulch. All other controls shall be removed and properly disposed of by the contractor.
- In the event of a fuel spill or equipment malfunction resulting in a release of hazardous material, all work will be stopped in this area until the release/spill is cleaned up.
- Equipment used for construction will be properly maintained and operated to reduce the chances of spill occurrences of petroleum products. Refueling of equipment will be required to carry spill containment and prevention devices (i.e., absorbent pads, clean up rags, five gallon containers, absorbent material, etc.) at all times. In addition, maintenance equipment and replacement parts for construction equipment will be on hand to repair failures and stop a spill in the event of equipment malfunction.
- Any hazardous waste spills shall be cleaned up immediately, and if the spill amount is equal to or exceeds the EPA Reportable Quantity (RQ) for that substance in accordance with 40 CFR Parts 1010, 117, or 302, the contractor shall immediately contact the National Response Center at 1-800-424-3802. The contractor will also be responsible for submitting in writing a description of the release to the EPA Regional Office and RIDEM providing the date and circumstances of the release and the steps to be taken to prevent another release. Directions for cleaning up spills shall be clearly posted at a designated on-site location, and construction personnel shall be made aware of the procedures and location of cleanup supplies. Personnel shall wear appropriate protective gear and have proper training to prevent injury from contact with any hazardous substances.
- No grade changes are proposed within state-regulated Freshwater Wetlands.



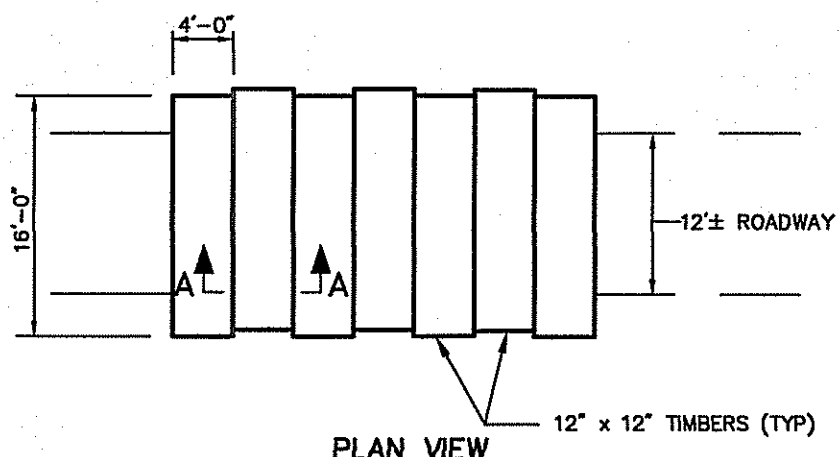
Cross-section

Notes:

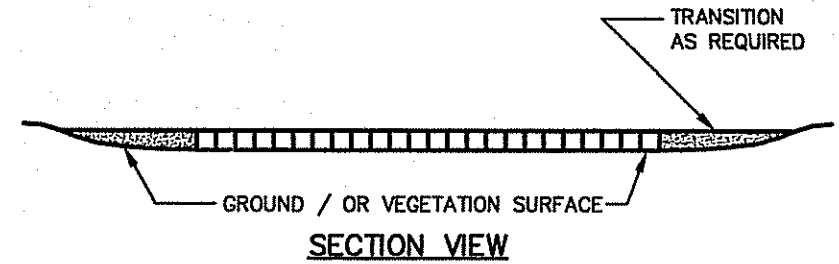
- ENTRANCE WIDTH SHALL BE A TWENTY-FIVE (25) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY. BERM SHALL BE PERMITTED. PERIODIC INSPECTION AND MAINTENANCE SHALL BE PROVIDED AS NEEDED.
- STABILIZED CONSTRUCTION EXIT SHALL BE REMOVED PRIOR TO FINAL FINISH MATERIALS BEING INSTALLED.

Stabilized Construction Exit

N.T.S. Source: VHB 6/08 LD_682



SECTION A-A
TYPICAL MAT SECTION
BOLTED TOGETHER

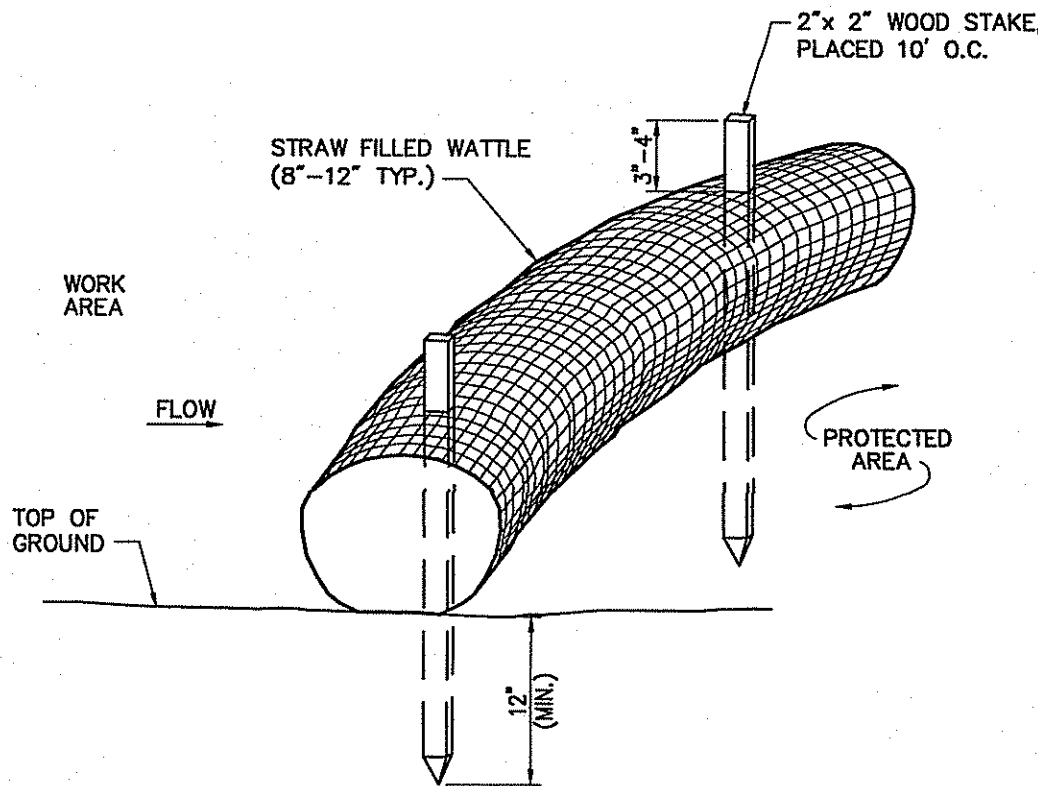


NOTE:

- TO BE INSTALLED AS NECESSARY TO ACCESS STRUCTURE SITES.
- PREPARATION FOR INSTALLATION OF SWAMP MATS WILL CONSIST OF CUTTING TALL WOODY SPECIES AND MOWING SHRUBS IF CONDITIONS REQUIRE. VEGETATION ROOT MASS WILL REMAIN UNDISTURBED.

Swamp Mat Detail

N.T.S. Source: National Grid

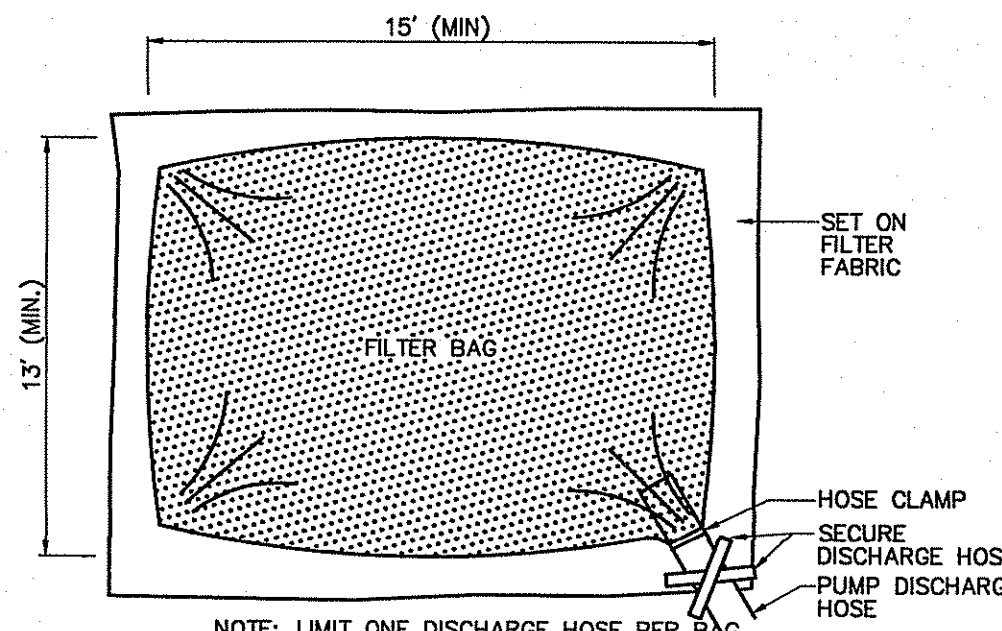


Notes:

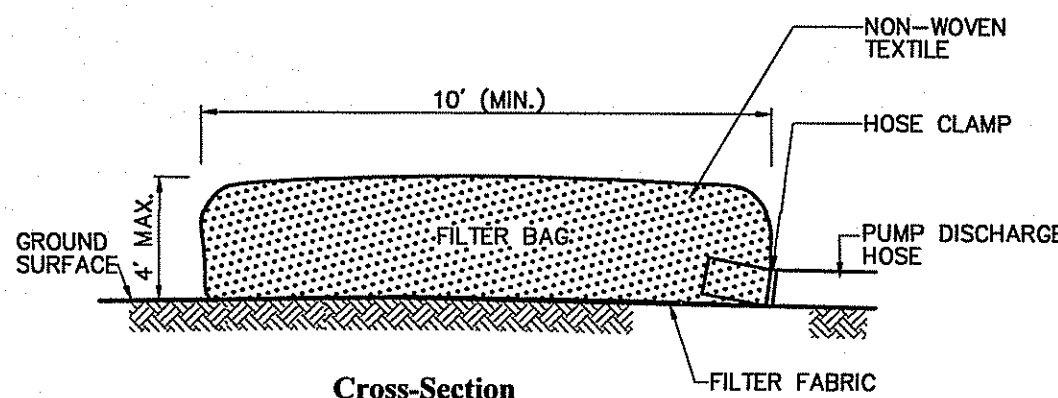
- STRAW WATTLE SHALL BE AS MANUFACTURED BY EARTHSaver OR APPROVED EQUAL.
- STRAW WATTLES SHALL OVERLAP A MINIMUM OF 12 INCHES.
- STRAW WATTLE SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS, AND REPAIR OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED.
- TEMPORARY STRAW WATTLES TO BE REMOVED BY CONTRACTOR. ALL OTHERS TO REMAIN IN PLACE UNLESS DIRECTED OTHERWISE BY ENGINEER.
- IF NON BIODEGRADABLE NETTING IS USED THE NETTING SHALL BE COLLECTED AND DISPOSED OF OFFSITE.

Straw Wattle - Erosion Control Barrier

N.T.S. Source: VHB 8/12 LD_659



Plan View



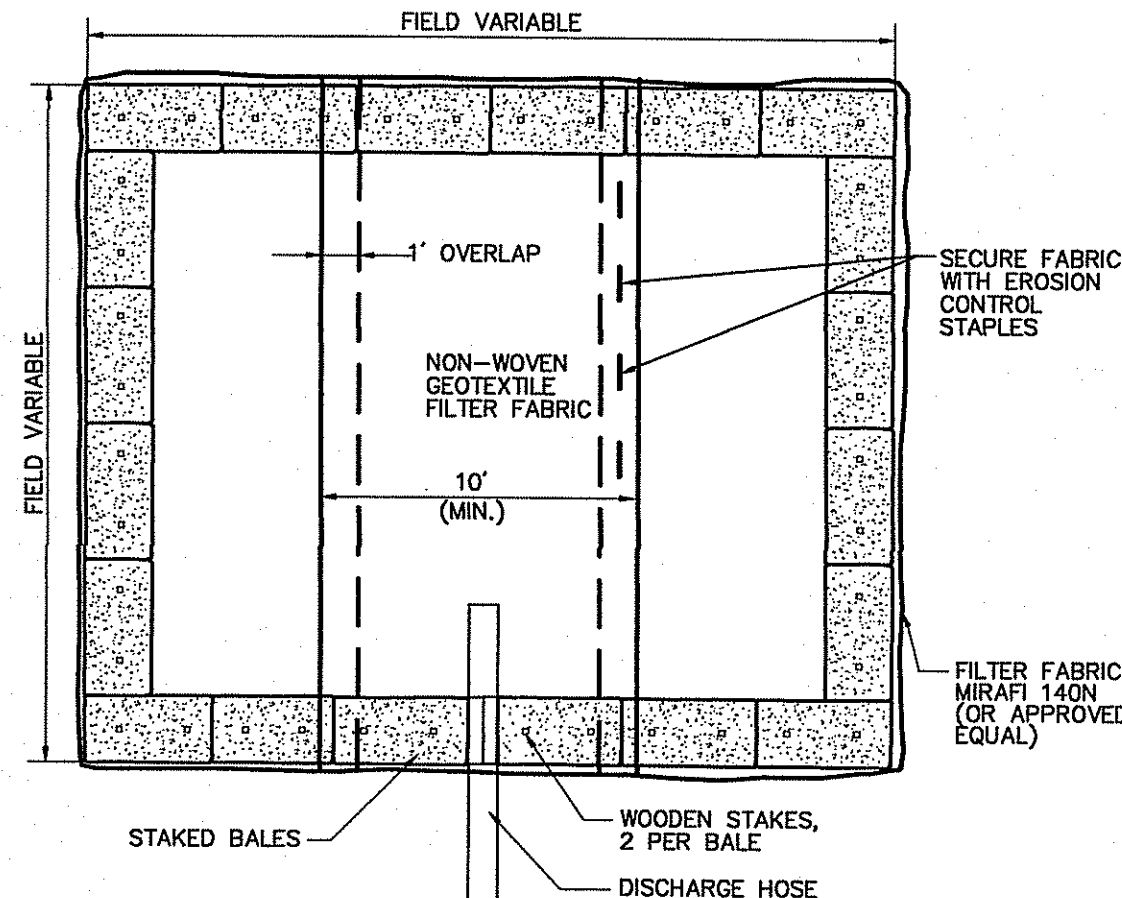
Cross-Section

Note:

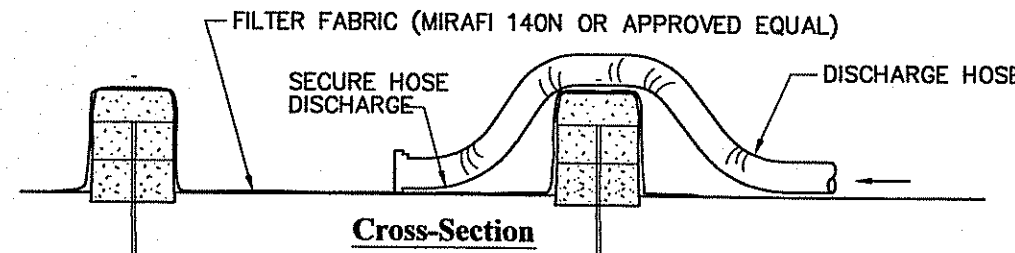
BAG TO BE USED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

Dewatering Filter Bag

N.T.S. Source: VHB 6/08 LD_691



Plan View



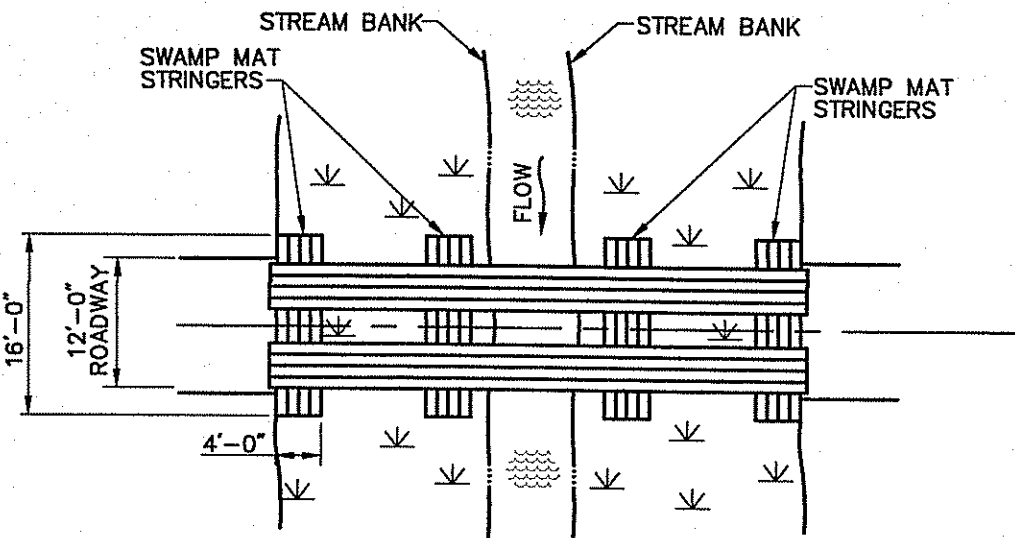
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Notes:

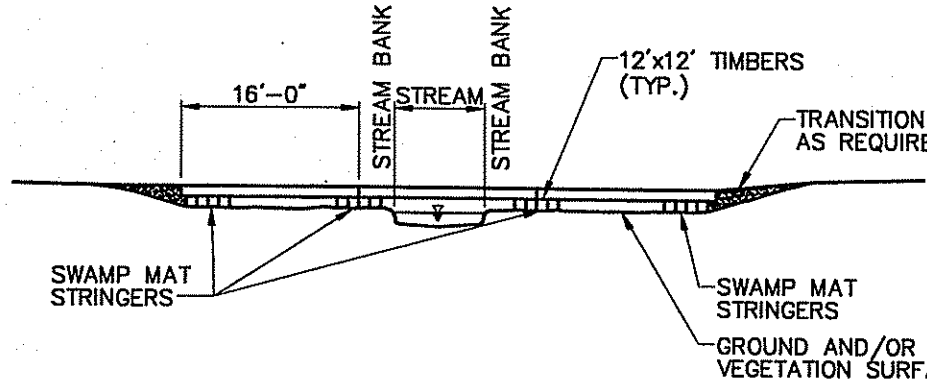
- NUMBER OF BALES MAY VARY DEPENDING ON SITE CONDITIONS.
- THE BASIN TO BE SIZED TO PREVENT DISCHARGE WATER FROM OVERTOPPING BASIN.

Dewatering Straw Bale Basin

N.T.S. Source: VHB 2/11 LD_690



NOTE: CARE SHALL BE WHEN INSTALLING A TIMBERMAT BRIDGE TO INSURE THAT THE STREAM BED AND BANKS ARE NOT DAMAGED DURING INSTALLATION AND REMOVAL AND THAT STREAM FLOW IS NOT RESTRICTED.



Timber Mat Bridge Over Stream

N.T.S. REV

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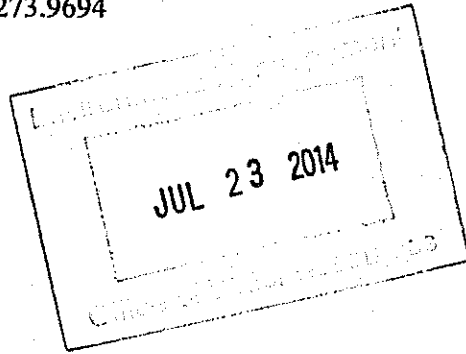
Nancy L. Freeman



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Drawing Title

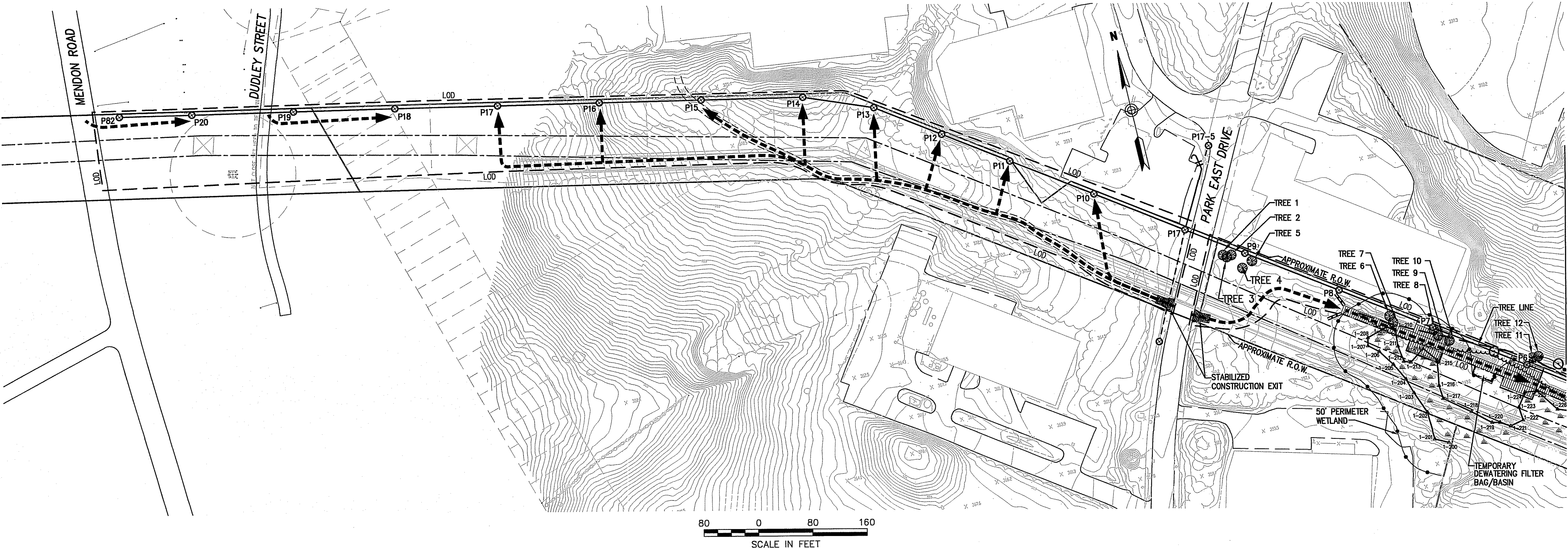
General Notes and Details

Drawing Number

C-2

Sheet of 2

Project Number
72522.00



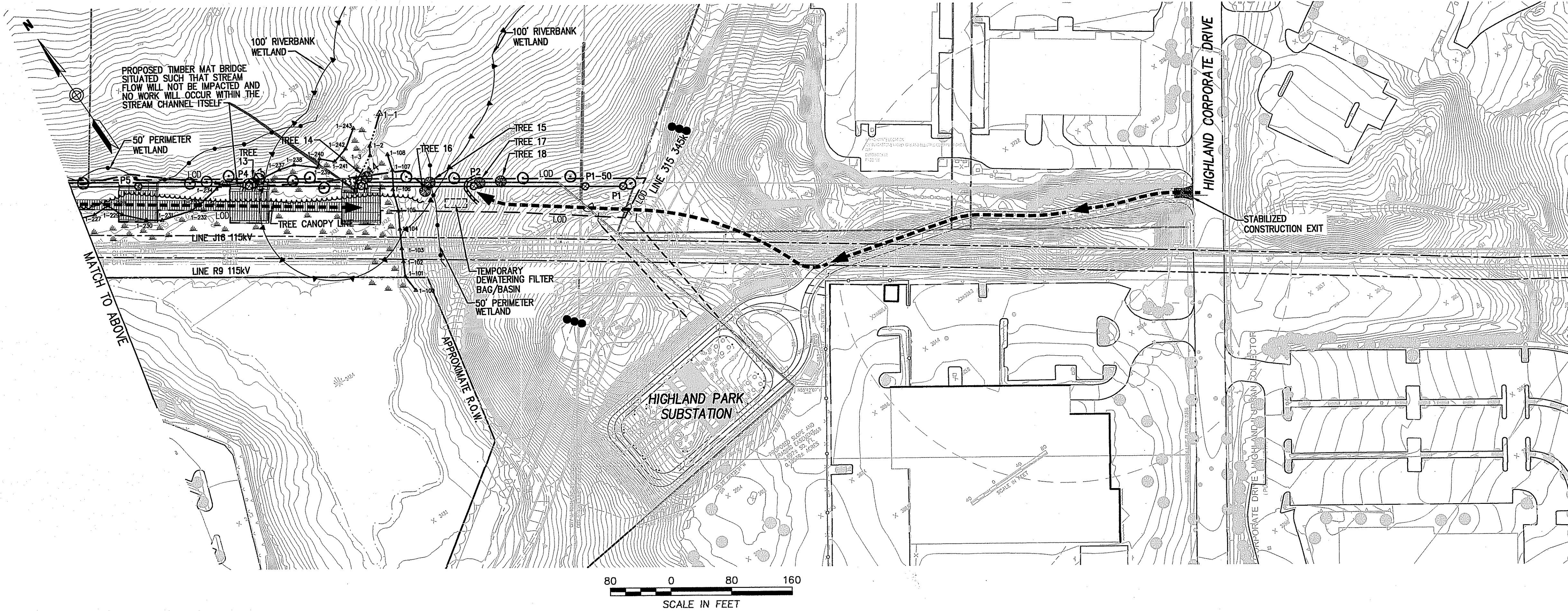
VHB
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JUL 23 2014

LEGEND	
	DELINEATED WETLAND BOUNDARY
	WETLANDS
	STREAM/BROOK/ASSF
	EXISTING DIRT ROAD
	PROPOSED POLE ACCESS
	PROPOSED SWAMP MATS
	PROPOSED STRAW WATTLE
	PROPOSED LIMIT OF DISTURBANCE
	PROPOSED STRUCTURE
	TREE TO BE REMOVED
	TREE TO BE TRIMMED



1	RIDEM COMMENTS	06/20/2014
No.	Revision	Date
Designed by	Drawn by	Checked by
CAD checked by	Approved by	
Scale	As Noted	Date April 18, 2014
Project Title		

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Wendy L. Freeman

Drawing Number

C-3

Sheet of

Project Number
72522.00

72522.PLAN.DWG