

# Plan Set

Issued for: RIDEM Request for Preliminary Determination

Date Issued: September 24, 2019

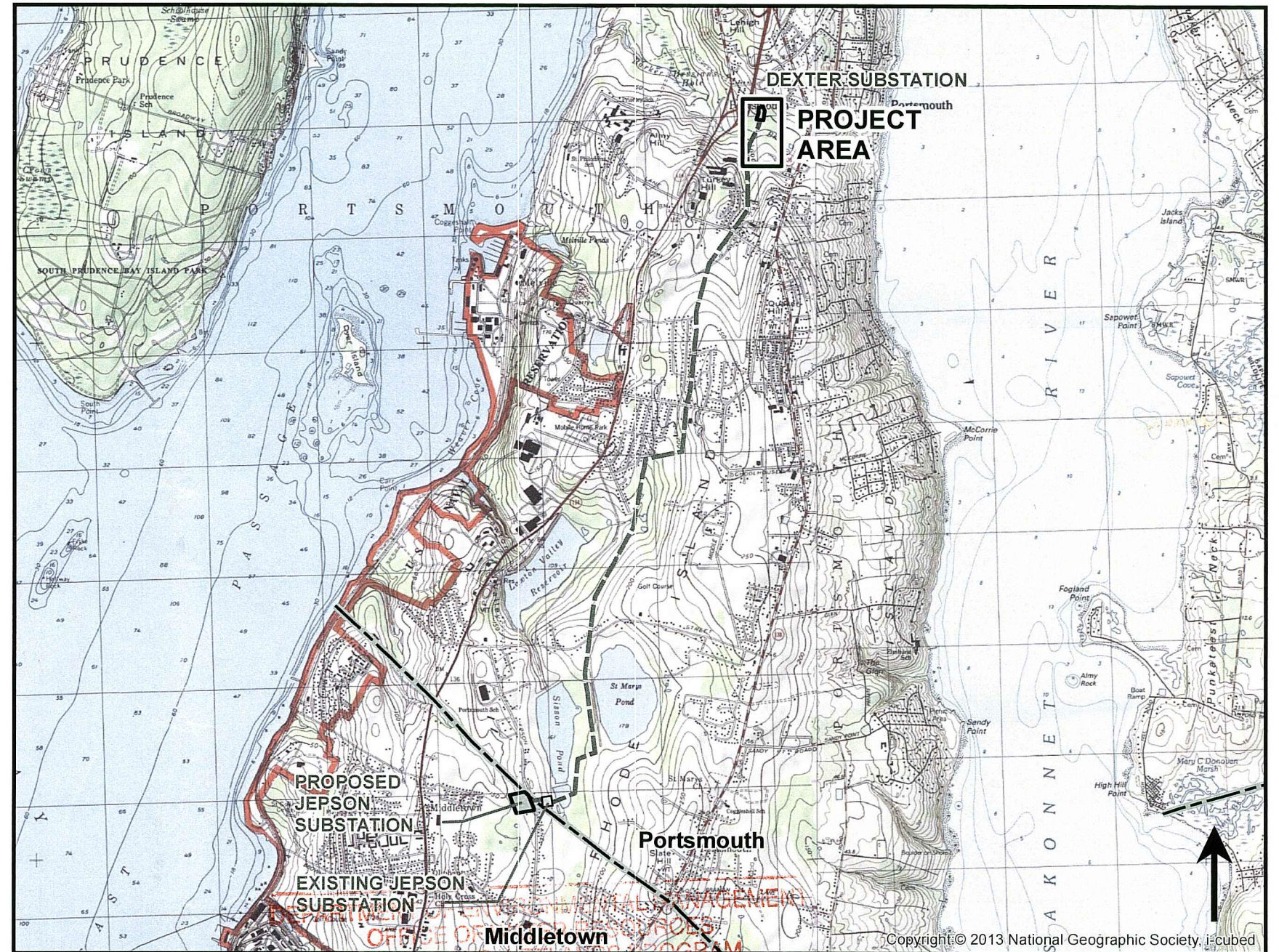
Latest Issue: September 24, 2019

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# Aquidneck Island Reliability Project Temporary M13 115kV Transmission Line Relocation

Dexter Substation, 182 Freeborn Street, Portsmouth, Rhode Island



Site Location Map

FRESH WATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
 AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED DEC 06 2019 FILE # 19-0286  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
*Nancy L. Freeman*

Environmental Management  
 SEP 30 2019  
 Office of Administrative Services  
 0 2,000 4,000  
 Feet  
 1 Inch = 4,000 Feet

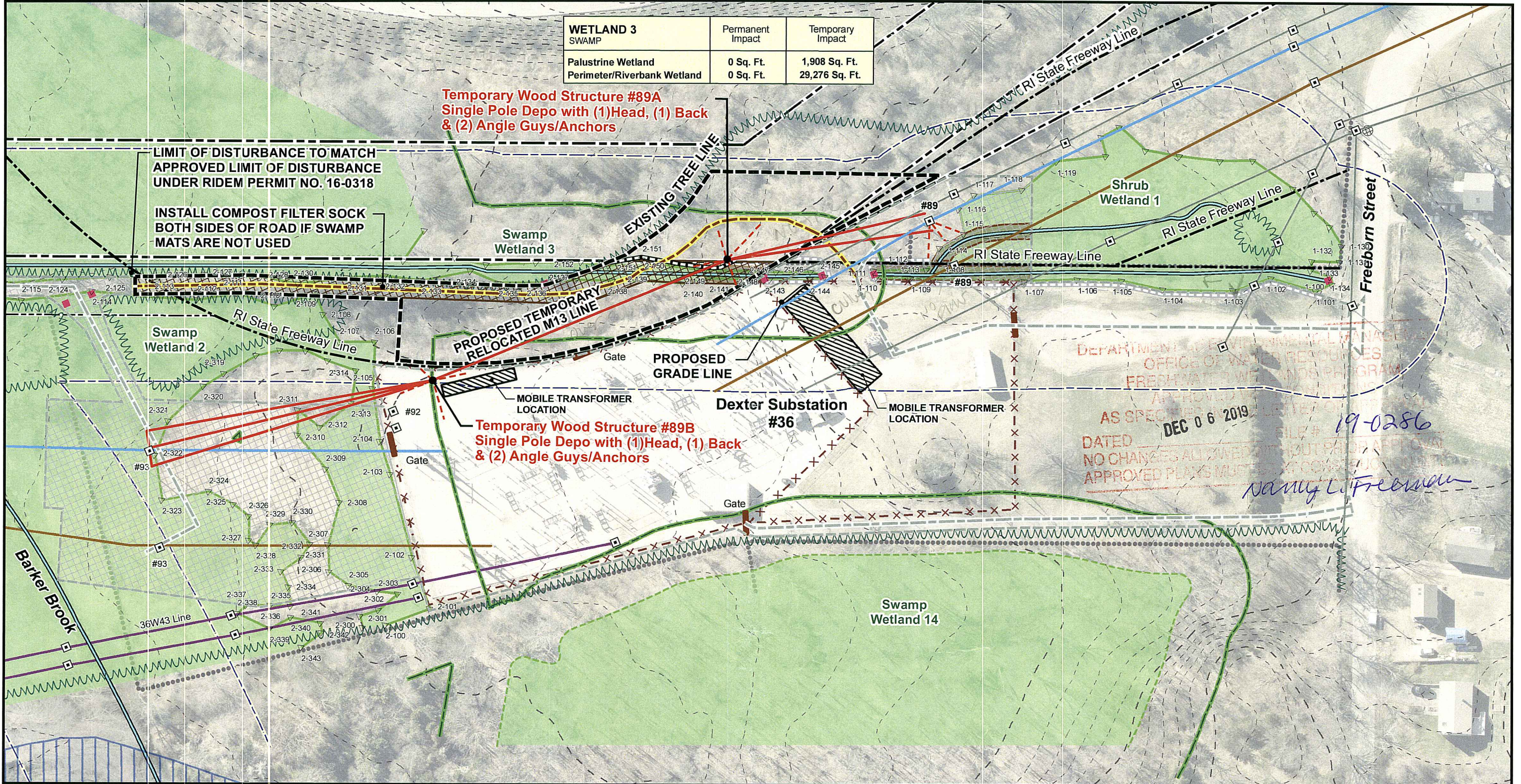
Plan 1 of 5

WETLAND 3 SWAMP	Permanent Impact	Temporary Impact
Palustrine Wetland	0 Sq. Ft.	1,908 Sq. Ft.
Perimeter/Riverbank Wetland	0 Sq. Ft.	29,276 Sq. Ft.

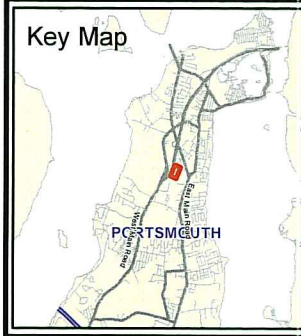
**Temporary Wood Structure #89A**  
Single Pole Depo with (1) Head, (1) Back & (2) Angle Guys/Anchors

LIMIT OF DISTURBANCE TO MATCH APPROVED LIMIT OF DISTURBANCE UNDER RIDEM PERMIT NO. 16-0318

INSTALL COMPOST FILTER SOCK BOTH SIDES OF ROAD IF SWAMP MATS ARE NOT USED



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED FOR CONSTRUCTION  
AS SPECIFIED IN PERMIT NO. 16-0318  
DATE: DEC 06 2019  
FILE # 19-0286  
DATED NO CHANGES ALLOWED WITHOUT PAID FOR PLAN CORRECTIONS  
APPROVED PLAYS MUST BE CONFORMANT WITH PERMIT  
*Nancy L. Freeman*

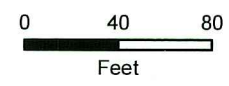


Temporary OHW	Access	Compost Filter Sock	Culvert
Temporary Guy Wire	Access (Approved) (RIDEM Permit No. 16-0318)	Compost Filter Sock (RIDEM Permit No. 16-0318)	Stonewall
Existing Structure	Limit of Disturbance	Delineated Wetland Edge	Fence
RI State Freeway Line	Limit of Disturbance (RIDEM Permit No. 16-0318)	Approximate Wetland Edge	Existing Tree Line
TNEC ROW	Limit of Disturbance (RIDEM Permit No. 16-0318)	50' Perimeter Wetland	
TNEC Easement	Proposed Construction Mats	Stream	
M13 Line	Construction Mats (Permit No. 16-0318)	100' Riverbank Wetland	
L14 Line	Timber Mat Bridge (RIDEM Permit No. 16-0318)	Wetlands	

**AQUIDNECK ISLAND RELIABILITY PROJECT  
PORTSMOUTH, RHODE ISLAND**

**Temporary M13 Line Relocation**

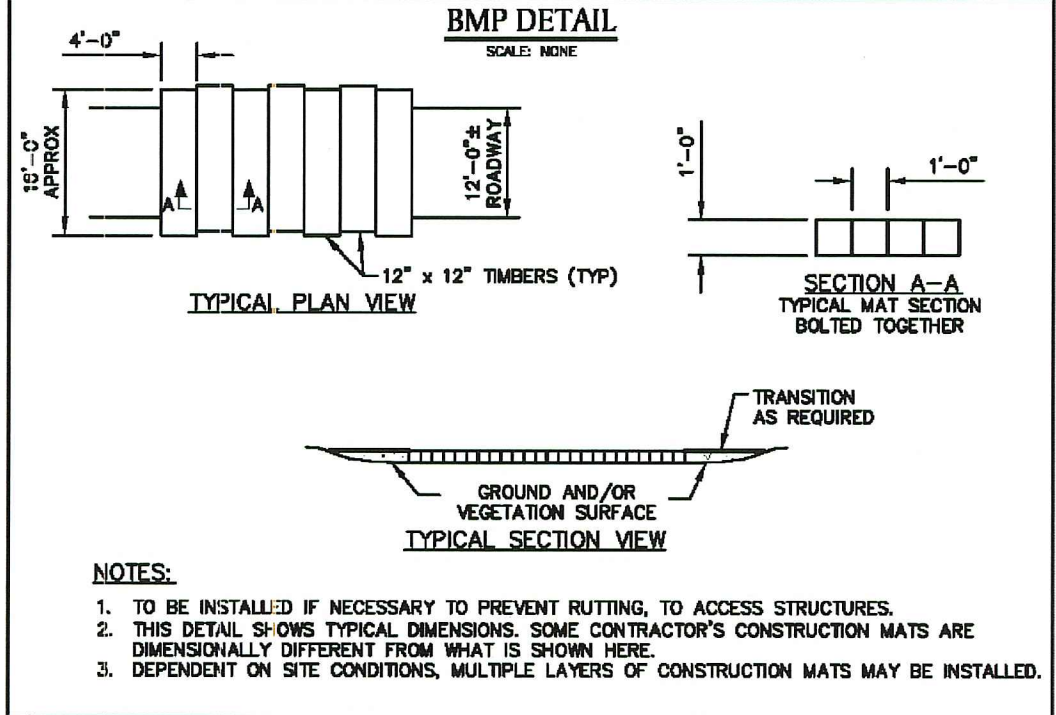
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nationalgrid



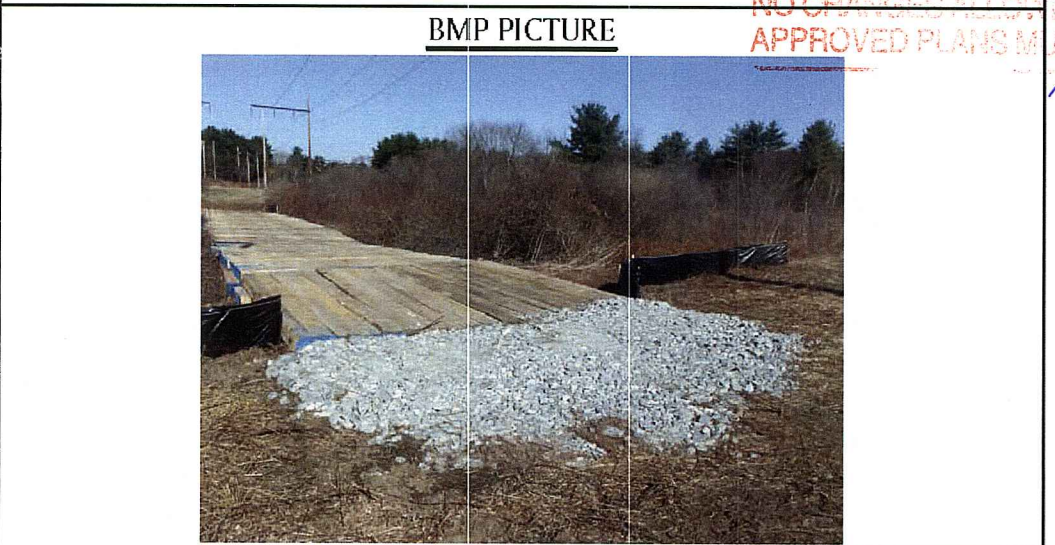
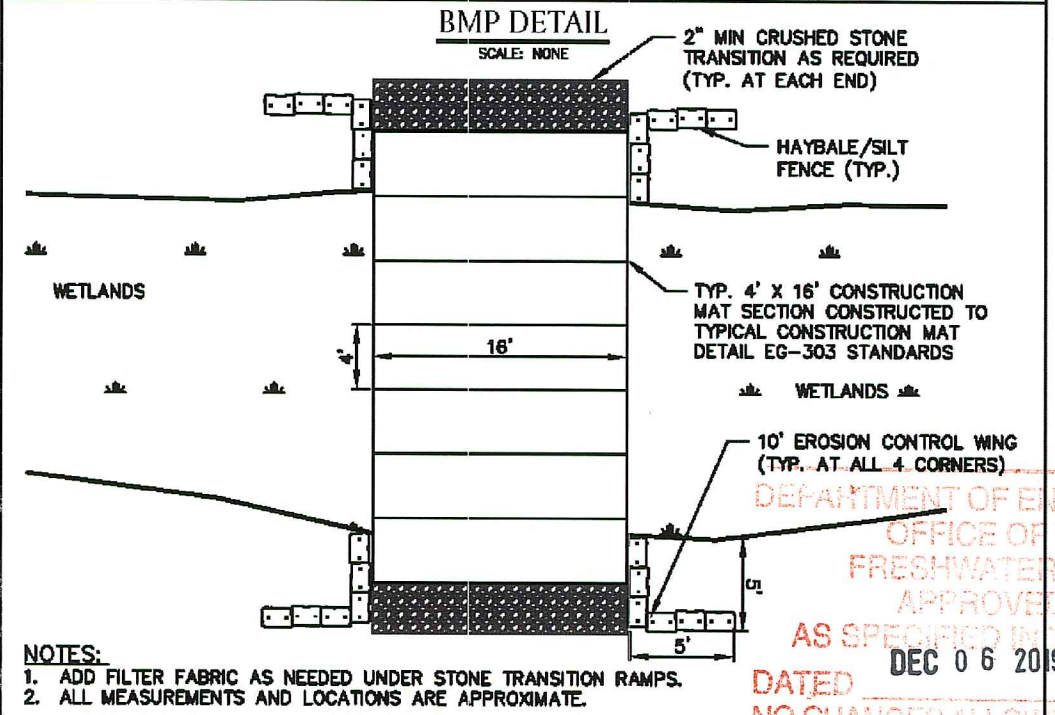
nationalgrid <b>ENVIRONMENTAL GUIDANCE</b>	Doc. No.	EG-303NE
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	Date	02/20/18
SUBJECT Access, Maintenance and Construction Best Management Practices		Reference EP No. 3 - Natural Resource Protection (Chapter 6)



**CM-3  
CONSTRUCTION MAT LAYOUT  
(WITH TRANSITION)**

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**CM-4  
CONSTRUCTION MAT LAYOUT  
(WITH TRANSITION AND BMPs)**

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**AQUIDNECK ISLAND RELIABILITY PROJECT  
PORTSMOUTH, RHODE ISLAND**

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### BMP DETAIL

SCALE: NONE

CIRCLED NUMBERS CORRESPOND TO INSTALLATION NOTES FOR THIS STRAW WATTLE BMP DETAIL (TYP.)

COMPACT EXCAVATED SOIL ON UPSLOPE SIDE

TYPICAL WATTLE SPACING DETAIL

**NOTES:**

- PRODUCT TO BE TENSAR NORTH AMERICAN GREEN STRAW WATTLE OR APPROVED EQUAL BY NATIONAL GRID ENVIRONMENTAL SCIENTIST.
- TYPICAL WATTLE SPACING BASED ON SLOPE GRADIENT. COORDINATE SPACING AND LOCATION WITH NATIONAL GRID ENVIRONMENTAL SCIENTIST.
- MINIMUM 12" DIAMETER WATTLES SHOULD BE USED FOR HIGHLY DISTURBED AREAS (I.E., HEAVILY USED ACCESS ROAD WITH ADJACENT WETLAND) AND MINIMUM 9-10" WATTLES SHOULD BE USED FOR LESS DISTURBED SOILS.

**INSTALLATION NOTES:**

- BEGIN AT THE LOCATION WHERE THE WATTLE IS TO BE INSTALLED BY EXCAVATING A 2-3" DEEP X 9" WIDE TRENCH ALONG THE CONTOUR OF THE SLOPE. EXCAVATED SOIL SHOULD BE PLACED UPSLOPE FROM THE ANCHOR TRENCH.
- PLACE THE WATTLE IN THE TRENCH SO THAT IT CONTOURS TO THE SOIL SURFACE. COMPACT SOIL FROM THE EXCAVATED TRENCH AGAINST THE WATTLE ON THE UPHILL SIDE. ADJACENT WATTLES SHOULD TIGHTLY ABUT.
- SECURE THE WATTLE WITH 18-24" HARDWOOD STAKES EVERY 3-4' AND WITH A STAKE ON EACH END. STAKES SHOULD BE DRIVEN THROUGH THE MIDDLE OF THE WATTLE LEAVING AT LEAST 2-3" OF STAKE EXTENDING ABOVE THE WATTLE. STAKES SHOULD BE DRIVEN PERPENDICULAR TO THE SLOPE FACE.

\* DETAIL AND PICTURE PROVIDED BY TENSAR NORTH AMERICAN GREEN  
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SEC-5  
 STRAW WATTLE \* (1 OF 2)

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### BMP PICTURE

STRAW WATTLE - SHALLOW SLOPE ( $\le 4:1$ )  
 (ALTERNATE STAKING)

**ALTERNATE STAKING INSTALLATION NOTES:**

- ON SHALLOW SLOPES ( $\le 4:1$ ), STRAW WATTLE MAY BE SECURED WITH 18-24" HARDWOOD STAKES DRIVEN AGAINST THE SIDES OF THE WATTLE INSTEAD OF THROUGH. STAKES SHALL ALTERNATE SIDES, AND BE SPACED 3-4' MAX.
- TWINE SHALL BE TIED FROM STAKE TO STAKE, CRISS-CROSSING THE STRAW WATTLE. TIE TWINE TO STAKES BELOW THE HEIGHT OF THE WATTLE.

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SEC-5  
 STRAW WATTLE \* (2 OF 2)

ENVIRONMENTAL MANAGEMENT  
 WATER RESOURCES  
 WETLANDS PROGRAM  
 WITH CONDITIONS

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19-0286

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**AQUIDNECK ISLAND RELIABILITY PROJECT  
 PORTSMOUTH, RHODE ISLAND**

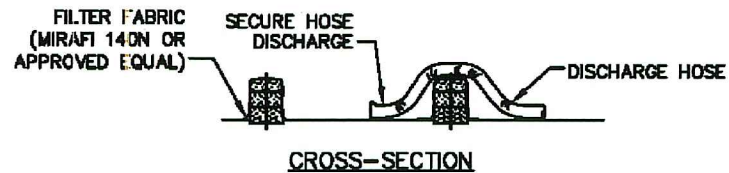
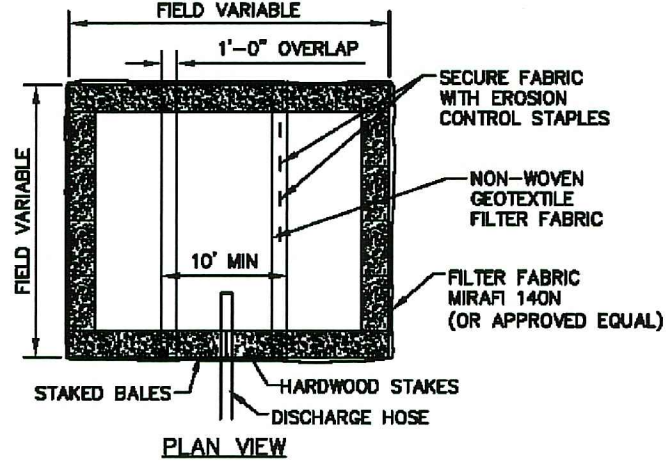
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SUBJECT  
Access, Maintenance and Construction  
Best Management Practices

**BMP DETAIL**

SCALE: NONE  
FIELD VARIABLE



**NOTES:**

1. NUMBER OF BALES MAY VARY DEPENDING ON SITE CONDITIONS.
2. THE BASIN TO BE SIZED TO PREVENT DISCHARGE WATER FROM OVERTOPPING BASIN.
3. KEEP AS FAR FROM WETLANDS AS PRACTICAL.
4. CLEAN AND REMOVE AS SOON AS DEWATERING IS COMPLETE.

**BMP PICTURE**



AA-10  
DEWATERING BASIN  
(SMALL SCALE)

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PORTSMOUTH, RHODE ISLAND**

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