

**DG-MA – Leicester Sub 21W1 & 21W2 –  
Solar Interconnection Project  
Massachusetts Electric Company  
Request for Determination of Applicability**

**Town of Leicester  
Conservation Commission  
August 2020**

Prepared for:

Massachusetts Electric Company d/b/a National Grid  
40 Sylvan Road  
Waltham, MA 02451

BSC Project No. 89599.69-14

---

Prepared by:



33 Waldo Street  
Worcester, MA 01608



August 27, 2020

Leicester Conservation Commission  
Leicester Town Hall  
3 Washburn Square  
Leicester, MA 01524

RE: **Request for Determination of Applicability  
DG-MA – Leicester Sub 21W1 & 21W2 – Solar Interconnection Project  
Main St., Leicester, MA  
Massachusetts Electric Company (MECO)**

33 Waldo Street  
Worcester, MA 01608

Tel: 508-792-4500  
800-288-8123  
Fax: 508-792-4509

[www.bscgroup.com](http://www.bscgroup.com)

Dear Members of the Leicester Conservation Commission:

BSC Group, Inc. (“BSC”) is filing this Request for Determination of Applicability (“RDA”) on behalf of the Massachusetts Electric Company d/b/a National Grid (“MECO”) for activities associated with a First Light Energy’s proposed solar interconnect in Leicester, MA. The proposed project includes the installation of approximately 245 linear feet (lf) of underground conduit and duct bank, and one new distribution pole (“the Project”) within the 100-foot Buffer Zone and locally-regulated 25-ft No Disturb Zone. This RDA is submitted in accordance with the Massachusetts Wetlands Protection Act (WPA) (M.G.L. Ch.131, S.40), its implementing regulations (310 CMR 10.00) and the Town of Leicester Wetlands Protection Bylaw/Ordinance and Regulations. The location of the proposed activities is shown on the USGS Site Locus Map in **Attachment B**.

The proposed activities are part of a larger maintenance Project necessary for MECO to provide an interconnection for First Light Energy’s 2,600kW PV DG solar site to MECO’s 13.8kV distribution system. The associated activities include reconductoring the existing 13.8kV distribution system along Henshaw Street, and a portion of Main Street, and replacing a portion of overhead primary with underground conductor. In addition, pole replacements, pole removal, and ground reinforcement will be conducted to support the replacement conductor and address insufficient clearances that may occur as a result of sag from the heavier conductor.

#### *Exempt Maintenance Activity Notification*

A portion of the Project activities will not substantially change or enlarge existing structures. Therefore, these routine maintenance activities qualify for exempt maintenance pursuant to the provision of the WPA (MGL 131-40)<sup>1</sup> and regulations 310 CMR 10.02 (2)(a)(2), and under the Leicester Bylaw/Ordinance Section III. Specifically, this includes the replacement of six (6) utility poles, removal of push brace 92-89, and installation of two (2) push braces on pole P96 within the 100-foot Buffer Zone and the removal of one (1) utility pole within

---

<sup>1</sup>MGL 131-40 allows for “maintaining, repairing, or replacing, but not substantially changing or enlarging” existing distribution line structures or facilities without filing a Notice of Intent.

Engineers  
Environmental  
Scientists  
GIS Consultants  
Landscape  
Architects  
Planners  
Surveyors



the 100-ft Buffer Zone.

#### *Exempt Minor Activities under the WPA*

In addition to the exempt maintenance activities, components of the proposed Project are also considered exempt minor activities under the WPA. This includes the installation of a new direct embed utility pole, P92-1, within 10-ft of a roadway or driveway (WPA 10.02(2)(a)(2)(h)) within the Buffer Zone. However, the minor activity exemptions do not appear to be recognized under the Leicester Wetlands Bylaw.

#### *Subject of RDA*

##### Underground Conduit and Duct Bank

The installation of approximately 245 lf of UG conduit and duct bank is proposed within the 100-ft Buffer Zone BVW/Inland Bank within vegetated areas and impervious surfaces along Main Street and is submitted for review under the WPA and the Leicester Wetlands Bylaw/Ordinance. Approximately 50 lf of UG conduit and duct bank is proposed within the locally regulated 25-ft No Disturb Zone. Please see the following Table for amount located within pervious and impervious surfaces (Table 1). There is no proposed change to the existing pervious and impervious conditions where UG conduit within duct bank will be installed.

Table 1. Temporary impacts for UG conduit and duct bank installation.

Surface Type	Temporary Impacts (lf)
Pervious	160
Impervious	85

##### New Direct Embed Pole

The installation of proposed pole P92-1 within the 100-ft Buffer Zone is submitted for review under the bylaw only.

Throughout the Project, Best Management Practices (BMPs) will be implemented to avoid adverse impacts to adjacent Resource Areas and disturbed areas will be restored to their pre-existing conditions once the work is complete. Therefore, MECO is seeking a Negative Determination under the WPA and Leicester Wetlands Protection Bylaw/Ordinance and a waiver for activities within the 25-ft No Disturb Zone to allow the work to proceed as described herein.

## **ENVIRONMENTAL RESOURCE AREAS**

A desktop analysis of environmental constraints was performed using MassGIS data layers and other available mapping. In addition, a site visit was conducted in July 2020, to confirm the presence of Resource Areas. Based on this assessment, activities are proposed within the 100-ft Buffer Zone to BVW and Inland Bank, and the locally regulated 25-ft No Disturb Zone. No other sensitive resource areas including Natural Heritage and Endangered Species Program (NHESP) Priority and Estimated Habitat, Certified Vernal Pools (CVPs), Areas of Critical Environmental Concern (ACEC), Activity and Use Limitation (AUL) sites or MassDEP 21E sites were identified within the Project area. Representative photographs of the Project area depicting existing conditions are included in **Attachment C**.



## PROPOSED WORK DESCRIPTION

MECO is proposing to install approximately 378 lf of UG conduit between the existing poles P92 to P89 for Feeder 21W2, and between poles P92-1 to P90 for Feeder 21W1. Of the 378 lf, 245 lf is located within Buffer Zone. Approximately 160 lf is proposed within the adjacent vegetated area between poles P92/ P92-1 to pole P91 and within the island near existing pole P90. Approximately 85 lf of UG conduit and duct bank is proposed within the paved sidewalk and driveway between existing pole P91 and existing pole P90. Proposed pole P92-1 is located in the vegetated area adjacent to the driveway/parking lot for 861 Main Street.

Specific Project activities will include:

- Installing New Pole:
  - P92-1 and anchor along Main Street;
- Installing 245 lf UG conduit and duct bank:
  - From existing pole P92 to existing pole P89 for Feeder 21W2
  - From proposed riser pole P92-1 to existing pole P90 for Feeder 21W1

### UG Conduit and Duct Bank Installation

The UG conduit and duct bank installation will involve:

- Installation of all necessary sediment controls around the work area;
- Excavation of a trench approximately three (3) feet wide and 2 1/2 – 3 feet deep;
- Installation of electrical conduit and encasement in flowable fill (cement);
- Backfilling of the excavation;
- Removal of all non-biodegradable portions of sediment controls.

During installation, soils excavated during the work will be set aside during construction and will be placed over the duct bank to backfill the trench. It is anticipated that the UG conduit and duct bank will be installed above the culverted section of Grindstone Brook. Disturbed areas will be stabilized and restored to pre-existing conditions, including contours, surface conditions and vegetation. Please refer to **Attachment E** for additional details on the BMPs to be utilized.

### Installation of Direct Embed Utility Poles

As part of the Project, MECO will install one (1) new direct-embed distribution pole within the 100-ft Buffer Zone to BVW/Inland Bank. The pole will be installed by auguring a hole to a depth of approximately six (6) feet. The pole will be directly embedded into the ground, and excavated soils will be used to backfill the hole. Any excess spoils will be removed from the site and disposed of properly. Guys will be anchored into the ground with a helical (screw) driven anchor, resulting in minimal ground disturbance.



## **Construction Methods and Proposed Mitigation Techniques**

MECO has established procedures that are to be followed by all employees and its contractors for accessing sites and performing construction activities on distribution line ROWs. These procedures ensure that MECO's projects are completed in accordance with all applicable environmental laws and regulations as well as with MECO policies and compliance objectives. The following sections provide a summary of BMPs that will be implemented for this Project. See **Attachment E** for an excerpt of National Grid's Environmental Guidance Document, Access, Maintenance and Construction Best Management Practices.

### Erosion and Sediment Controls

Ground disturbance associated with the Project will be limited to augering one (1) hole for the installation of proposed Pole P92-1 and the excavation for the UG duct bank. Displaced soil will be managed away for wetland resource areas and will be used as backfill. Any remaining spoils will be disposed of appropriately offsite. Sediment controls will be installed prior to commencing work and may include straw bales, fiber rolls or straw wattles. Please refer to **Attachment E** for additional details on the BMPs to be utilized.

### Dewatering

Although unlikely, if dewatering is necessary for the installation of the conduit, discharge water will be pumped through a filter bag located in an upland area, where feasible. If the filter bag cannot be located in an upland area, the bag will be surrounded with additional sediment filtration such as fiber rolls, straw bales, or other appropriate containment.

### Concrete Washout

Designated concrete washout areas will be provided. Concrete washout water will not be deposited or discharged directly on the ground or into wetland resource areas or catch basins. Concrete washouts will be located as far away from the resource areas as possible (exact location to be determined during construction). Following the completion of concrete pouring operations, the wash outs will be disposed of off-site.

### Stormwater Management

There will be no change in grade or increase in impervious area as a result of this Project. Therefore, additional stormwater management appurtenances will not be required.

### Restoration

All disturbed areas will be stabilized, and the construction site will be returned to existing conditions. All construction materials, vehicles, and non-biodegradable sediment controls will be removed from the site upon completion of work.



## Conclusion

Enclosed are two (2) copies of the RDA application package and five (5) copies of the associated maps and plans. An electronic copy has also been submitted to the Conservation Commission, and to MassDEP Central Regional Office (CERO). The appropriate filing fee is also included. We respectfully request that this matter be heard at the next scheduled Conservation Commission meeting. The work may be scheduled to begin as soon as permissible.

If you have any questions regarding the enclosed information, please contact me at (617) 896-4519, or James Rynes of MECO at (978) 337-6988. Thank you for your consideration in this matter.

Sincerely,

BSC Group, Inc.

A handwritten signature in black ink, appearing to read "Heidi Graf".

Heidi Graf  
Ecologist

cc: James Rynes, National Grid

# Table of Contents

DG-MA – Leicester Sub 21W1 & 21W2 –  
Solar Interconnection Project  
Leicester, Massachusetts  
Request for Determination of Applicability

---

ATTACHMENT A	WPA FORM 1 COPY OF LOCAL FILING FEE
ATTACHMENT B	SITE FIGURES
ATTACHMENT C	REPRESENTATIVE PHOTOGRAPHS
ATTACHMENT D	CERTIFIED ABUTTERS LIST ABUTTERS NOTIFICATION LETTER
ATTACHMENT E	RIGHT TO ENTER FORM
ATTACHMENT F	NATIONAL GRID’S BMPs

---

# **Attachment A**

DG-MA – Leicester Sub 21W1 & 21W2 –  
Solar Interconnection Project  
Leicester, Massachusetts  
Request for Determination of Applicability

WPA FORM 1  
COPY OF LOCAL FILING FEE

---





# Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

Leicester

City/Town

## WPA Form 1- Request for Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

### A. General Information

#### Important:

When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



1. Applicant:

Massachusetts Electric Company

James.Rynes@nationalgrid.com

Name

E-Mail Address

40 Sylvan Road

Mailing Address

Waltham

MA

02451

City/Town

State

Zip Code

978-337-6988

Phone Number

Fax Number (if applicable)

2. Representative (if any):

BSC Group, Inc.

Firm

Heidi Graf

hgraf@bscgroup.com

Contact Name

E-Mail Address

33 Waldo Street

Mailing Address

Worcester

MA

01608

City/Town

State

Zip Code

617-896-4519

Phone Number

Fax Number (if applicable)

### B. Determinations

1. I request the Leicester make the following determination(s). Check any that apply:  
Conservation Commission

- ☐ a. whether the **area** depicted on plan(s) and/or map(s) referenced below is an area subject to jurisdiction of the Wetlands Protection Act.
- ☐ b. whether the **boundaries** of resource area(s) depicted on plan(s) and/or map(s) referenced below are accurately delineated.
- ☒ c. whether the **work** depicted on plan(s) referenced below is subject to the Wetlands Protection Act.
- ☒ d. whether the area and/or work depicted on plan(s) referenced below is subject to the jurisdiction of any **municipal wetlands ordinance** or **bylaw** of:

Leicester

Name of Municipality

- ☐ e. whether the following **scope of alternatives** is adequate for work in the Riverfront Area as depicted on referenced plan(s).



# Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

Leicester

City/Town

## WPA Form 1- Request for Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

### C. Project Description

1. a. Project Location (use maps and plans to identify the location of the area subject to this request):

Adjacent to road shoulder between 861 and 803

Main Street

21

Assessors Map/Plat Number

Leicester

City/Town

21 B2 0 / 21 B3 0

Parcel/Lot Number

- b. Area Description (use additional paper, if necessary):

Project location and surrounding areas consists of a paved roadway and sidewalk, with adjacent commercial properties and parking lots. The proposed project will be within the paved roadway and sidewalk, and adjacent vegetated area, on Main Street, Leicester, MA. The project is located within the 100-foot Buffer Zone to BVW and Inland Bank and the locally-regulated 25-ft No Disturb Zone.

- c. Plan and/or Map Reference(s):

USGS Locus Map

Title

08/21/2020

Date

Environmental Resources Map

Title

08/27/2020

Date

Title

Date

2. a. Work Description (use additional paper and/or provide plan(s) of work, if necessary):

MECO is proposing to install approximately 378 lf of underground (UG) conduit and duct bank, and one (1) new pole P92-1 along Main Street, Leicester, MA. The proposed Project is necessary for MECO to provide an interconnection for First Light Energy's 2,600kW PV DG solar site to MECO's 13.8kV distribution system. Approximately 160 lf of UG conduit and duct bank are proposed within the vegetated area south of Main Street within the 100-ft Buffer Zone to BVW/Inland Bank. Approximately 85 lf of UG conduit and duct bank are proposed within the paved sidewalk and driveway along Main Street near Pole 90 within the 100-ft Buffer Zone to BVW/Inland Bank with approximately 50 lf being located within the 25-ft No Disturb Zone. Lastly, one new pole P92-1 is proposed within the Buffer Zone and one existing pole P91 is proposed for removal within the Buffer Zone. Best Management Practices (BMPs) will be implemented to avoid adverse impacts to adjacent Resource Areas, and disturbed areas will be restored to their pre-existing conditions once the work is complete. Please refer to the attached Cover Letter and Figures for further details.



**Massachusetts Department of Environmental Protection**

Bureau of Resource Protection - Wetlands

Leicester

City/Town

**WPA Form 1- Request for Determination of Applicability**

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

---

**C. Project Description (cont.)**

b. Identify provisions of the Wetlands Protection Act or regulations which may exempt the applicant from having to file a Notice of Intent for all or part of the described work (use additional paper, if necessary).

Installation of underground utilities within existing paved roadways in the 100-ft Buffer Zone to BVW and Inland Bank can be considered an exempt minor buffer zone activity under the WPA 10.02(2)(b)(2)(i). Installation of direct embed utility poles within 10-ft of paved roadway/driveway can be considered an exempt minor buffer zone activity under the WPA, 10.02(2)(b)(2)(h).

---

---

3. a. If this application is a Request for Determination of Scope of Alternatives for work in the Riverfront Area, indicate the one classification below that best describes the project.

- ☐ Single family house on a lot recorded on or before 8/1/96
- ☐ Single family house on a lot recorded after 8/1/96
- ☐ Expansion of an existing structure on a lot recorded after 8/1/96
- ☐ Project, other than a single family house or public project, where the applicant owned the lot before 8/7/96
- ☐ New agriculture or aquaculture project
- ☐ Public project where funds were appropriated prior to 8/7/96
- ☐ Project on a lot shown on an approved, definitive subdivision plan where there is a recorded deed restriction limiting total alteration of the Riverfront Area for the entire subdivision
- ☐ Residential subdivision; institutional, industrial, or commercial project
- ☐ Municipal project
- ☐ District, county, state, or federal government project
- ☐ Project required to evaluate off-site alternatives in more than one municipality in an Environmental Impact Report under MEPA or in an alternatives analysis pursuant to an application for a 404 permit from the U.S. Army Corps of Engineers or 401 Water Quality Certification from the Department of Environmental Protection.

b. Provide evidence (e.g., record of date subdivision lot was recorded) supporting the classification above (use additional paper and/or attach appropriate documents, if necessary.)

---

---

---



**Massachusetts Department of Environmental Protection**

Bureau of Resource Protection - Wetlands

Leicester

City/Town

**WPA Form 1- Request for Determination of Applicability**

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

**D. Signatures and Submittal Requirements**

I hereby certify under the penalties of perjury that the foregoing Request for Determination of Applicability and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge.

I further certify that the property owner, if different from the applicant, and the appropriate DEP Regional Office were sent a complete copy of this Request (including all appropriate documentation) simultaneously with the submittal of this Request to the Conservation Commission.

Failure by the applicant to send copies in a timely manner may result in dismissal of the Request for Determination of Applicability.

Name and address of the property owner:

Massachusetts Electric Company has an easement

Name

Mailing Address

City/Town

State

Zip Code

Signatures:

I also understand that notification of this Request will be placed in a local newspaper at my expense in accordance with Section 10.05(3)(b)(1) of the Wetlands Protection Act regulations.

Signature of Applicant

*James Ryma*

8/27/2020

Date

Signature of Representative (if any)

*[Signature]*

8/27/2020

Date

**BSC COMPANIES, INC.**

803 SUMMER STREET  
BOSTON, MA 02127

 **Eastern Bank**

Boston, MA 02110  
easternbank.com  
1-800-EASTERN

**33340**  
Check No. 33340



53-179/113

One Hundred and 00/100 Dollars

DATE

AMOUNT

8/17/2020

\$100.00

PAY  
TO THE  
ORDER  
OF

Town of Leicester  
Town of Leicester Conservation Commission  
3 Washburn Square  
Leicester, MA 01524



TWO SIGNATURES REQUIRED OVER \$2,500

  
NOT VALID AFTER 180 DAYS  
AUTHORIZED SIGNATURE

Security features. Details on back.

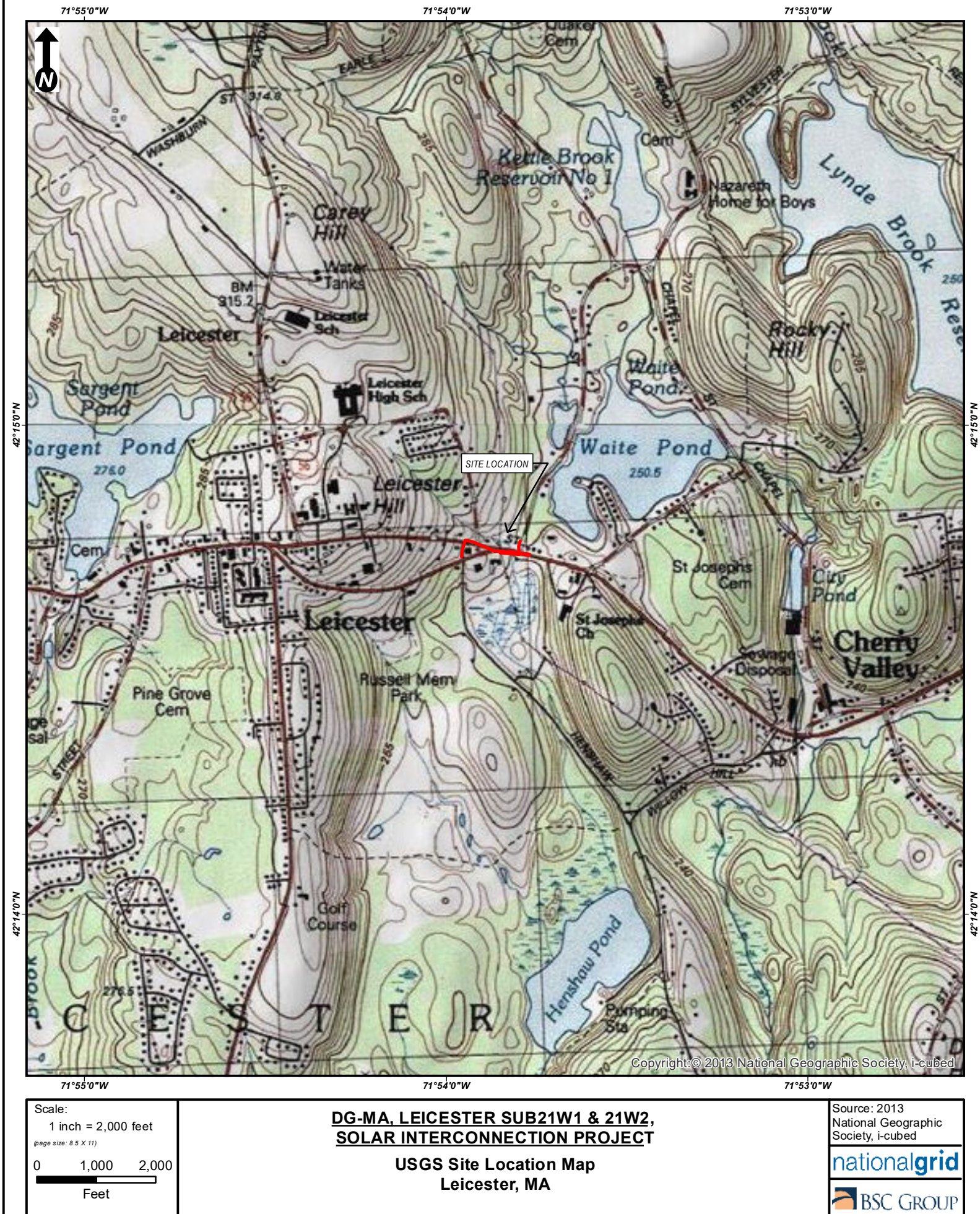
⑈033340⑈ ⑆011301798⑆ 0600659304⑈

# **Attachment B**

DG-MA – Leicester Sub 21W1 & 21W2 –  
Solar Interconnection Project  
Leicester, Massachusetts  
Request for Determination of Applicability

## **SITE FIGURES**









**Legend**

Install Pole	Existing OH Line	Surface Water Protection Zone
Remove Pole	Parcel Boundary	Outstanding Resource Water
Overhead work	MADEP Wetlands*	
Replace Pole	MADEP Hydrologic Connections	
Install Manhole	25ft No Disturb Zone	
Install UG Conduit	100ft Buffer Zone	
Replace OH Line	FEMA 100yr Floodplain (1997)	

1 inch = 100 feet  
0 50 100  
Feet  
\*Indicates Layers Set to Transparency

**DG-MA, LEICESTER SUB21W1 & 21W2,  
SOLAR INTERCONNECTION PROJECT**

**Environmental Resources Map**

Leicester, MA

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community



# **Attachment C**

DG-MA – Leicester Sub 21W1 & 21W2 –  
Solar Interconnection Project  
Leicester, Massachusetts  
Request for Determination of Applicability

## **REPRESENTATIVE PHOTOGRAPHS**



**Photo #1:** View along the existing distribution line along Main Street. UG conduit will be installed in the adjacent vegetated margin from Pole 92 (indicated by red arrow) to Pole 91 (indicated by white arrow) at which point the path will move within the sidewalk. Proposed pole P92-1 will be installed in the adjacent vegetated margin.(yellow arrow) *Facing west.*



**Photo #2:** View of Pole 91 and adjacent intermittent stream (culverted section of Grindstone Brook). UG conduit will be installed within the sidewalk within this area, until moving into the vegetated island near Pole 90 (indicated by red arrow) *Facing east.*





**Photo #3:** View of the culverted Grindstone Brook (intermittent stream) which flows under Main Street. The proposed duct bank will be installed over the culvert. *Facing north.*

# **Attachment D**

DG-MA – Leicester Sub 21W1 & 21W2 –  
Solar Interconnection Project  
Leicester, Massachusetts  
Request for Determination of Applicability

**CERTIFIED ABUTTERS LIST  
ABUTTERS NOTIFICATION LETTER**

1:46:51PM

## Abutters List

ParcelID	Location	Owner	Co-Owner	Mailing Address	City	State	Zip
20 B3 0	820 MAIN ST	NEW ENGLAND POWER CO	ATTN: PROPERTY TAX DEP	40 SYLVAN ROAD	WALTHAM	MA	02451
21 B2 0	861 MAIN ST	BC ROADHOUSE PROPERTIES INC		861 MAIN STREET	LEICESTER	MA	01524
21 B3 0	803 MAIN ST	ATC LEICESTER LLC		34 CHILTERN HILL DRIVE	WORCESTER	MA	01602
21A A10 0	790 MAIN ST	ENTWISTLE JR CHARLES W	CW ENTWISTLE TR CWE RE	790 MAIN STREET	LEICESTER	MA	01524
21A A8 0	800 MAIN ST	ENTWISTLE III CHARLES W		800-802 MAIN ST	LEICESTER	MA	01524

*End of Report*

Above is a certified list of direct abutters including abutters across the street.

Subject property: Adjacent to 861 and 803 Main Street. Underground conduit and duck bank within sidewalk and vegetated margin.

John Prescott, Principal Assessor

Prepared by: Kathleen Asquith, Assistant

**REQUEST FOR DETERMINATION OF APPLICABILITY  
ABUTTER NOTIFICATION LETTER**

**RE:    Leicester Conservation Commission Public Meeting**

To Whom It May Concern,

As a direct abutter of the proposed project, please be advised that a REQUEST FOR DETERMINATION OF APPLICABILITY (RDA) has been filed with the Leicester Conservation Commission under the Massachusetts Wetlands Protection Act and Leicester Wetlands Protection Bylaw/Ordinance

**APPLICANT:**                   Massachusetts Electric Company

**PROJECT LOCATION:**       Main Street, Leicester, MA.

**PROJECT DESCRIPTION:**   MECO is proposing to install one new Pole P92-1, and install underground conduit and duct bank within the vegetated margin, sidewalk and driveway along Main Street, Leicester, between 861 and 803 Main Street. The Project is necessary to provide an interconnection for First Light Energy's solar site to the existing electric distribution system. Activities are proposed within the 100-ft Buffer Zone to Bordering Vegetated Wetland/Inland Bank, and the locally-regulated 25-ft No Disturb Zone.

**APPLICANT'S AGENT:**       BSC Group, Inc. (Attn: Heidi Graf)  
33 Waldo Street  
Worcester, MA 01608  
(617) 896-4519

**PUBLIC HEARING:**           Meeting to be held remotely via teleconference. Contact the Conservation Commission for details.  
DATE: September 16, 2020  
TIME: **6:30 PM**

**NOTE:**                    You may contact the Leicester Conservation Commission at the Town Hall between 8:00am and 5:00pm Monday, Wednesday and Thursday, and between 8:00am and 7:00pm Tuesday. Office phone number: (508) 892-7007.

**NOTE:**                    Plans and an application describing the wetland resource areas within the Project area are on file with the Leicester Conservation Commission in the Commission office at 3 Washburn Square, Leicester, MA 01524. For electronic copy, please contact Heidi Graf [HGraf@bscgroup.com](mailto:HGraf@bscgroup.com)

# **Attachment E**

DG-MA – Leicester Sub 21W1 & 21W2 –  
Solar Interconnection Project  
Leicester, Massachusetts  
Request for Determination of Applicability

**RIGHT TO ENTER FORM**



**Town of Leicester**  
**CONSERVATION COMMISSION**

3 Washburn square  
Leicester, MA 01524-1333

PHONE  
(508) 892-7007  
FAX  
(508) 892-7070

The applicant, its agent, employees and all successors assigns in interest or control do hereby grant the members of the Leicester Conservation Commission and/or its agents to the right to enter upon and inspect the premises subject to this application prior to the issuance of Orders of Conditions and to evaluate compliance with the Orders of Conditions until such time as a Certificate of Compliance is issued by the Commission.

\_\_\_\_\_  
**Applicant/Authorized Agent**

James Rynes

\_\_\_\_\_  
**Applicant's Full Name**

Massachusetts Electric Company roadside easement between 861 and 803 Main Street

\_\_\_\_\_  
**Property Address**

8/27/2020

\_\_\_\_\_  
**Date**



# **Attachment F**

DG-MA – Leicester Sub 21W1 & 21W2 –  
Solar Interconnection Project  
Leicester, Massachusetts  
Request for Determination of Applicability

NATIONAL GRID'S BMPs

## SUBJECT

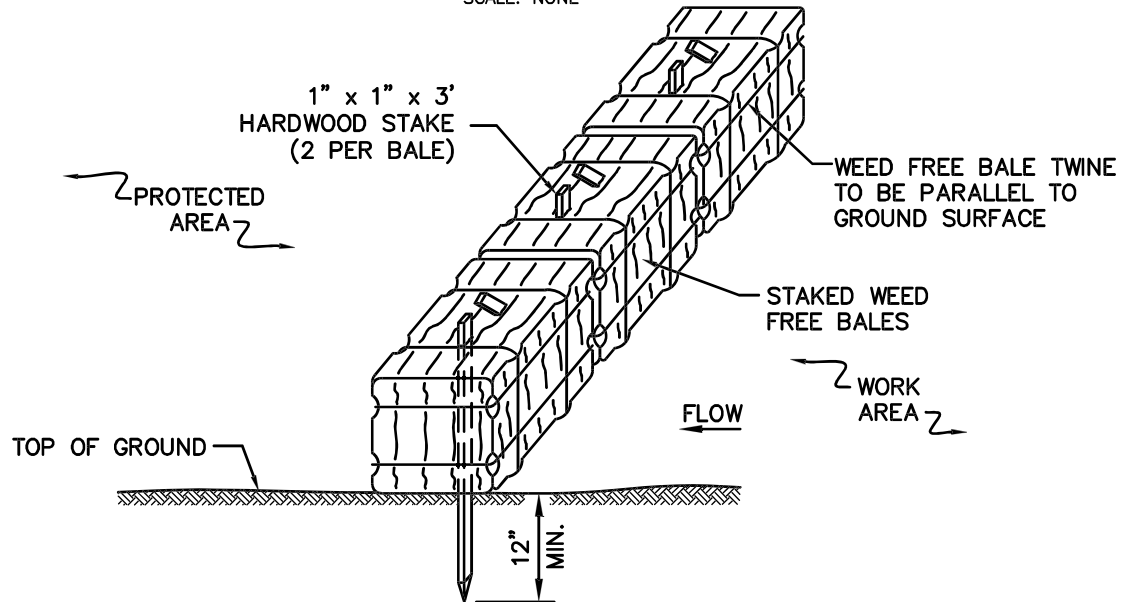
Access, Maintenance and Construction  
Best Management Practices

## Reference

EP No. 3 - Natural Resource  
Protection (Chapter 6)

**BMP DETAIL**

SCALE: NONE

**NOTES:**

1. THE GROUND SHALL BE PREPARED TO PROVIDE COMPLETE CONTACT WITH THE BALES.

**BMP PICTURE****APPROVED BY: VICE PRESIDENT, ENVIRONMENTAL SERVICES**

PRINTED COPIES ARE NOT DOCUMENT CONTROLLED. FOR LATEST AUTHORIZED  
VERSION PLEASE REFER TO THE NATIONAL GRID ENVIRONMENTAL INFONET SITE.

SEC-1

WEED FREE BALE BARRIER

**SUBJECT**

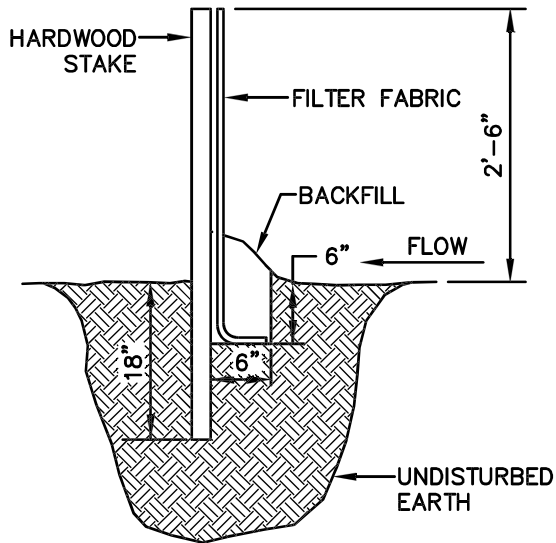
Access, Maintenance and Construction  
Best Management Practices

**Reference**

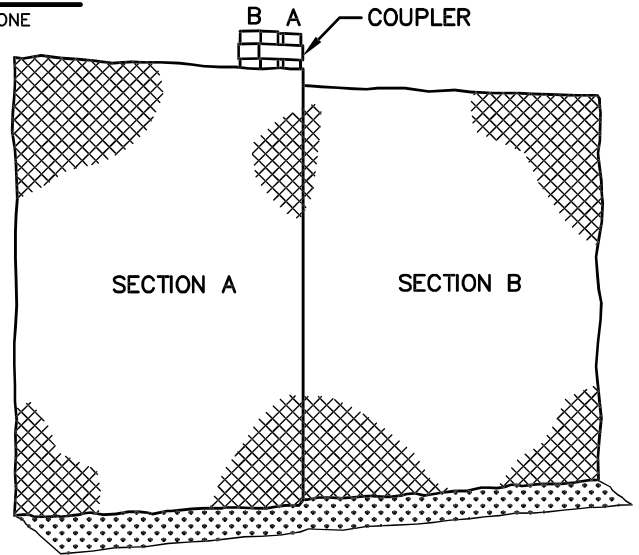
EP No. 3 - Natural Resource  
Protection (Chapter 6)

**BMP DETAIL**

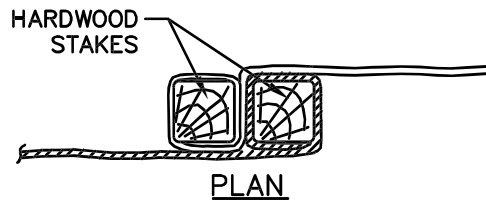
SCALE: NONE



PROFILE



SECTION



PLAN

**BMP PICTURE**



**APPROVED BY: VICE PRESIDENT, ENVIRONMENTAL SERVICES**

PRINTED COPIES ARE NOT DOCUMENT CONTROLLED. FOR LATEST AUTHORIZED  
VERSION PLEASE REFER TO THE NATIONAL GRID ENVIRONMENTAL INFONET SITE.

SEC-2  
**SEDIMENT CONTROL FENCE**

## SUBJECT

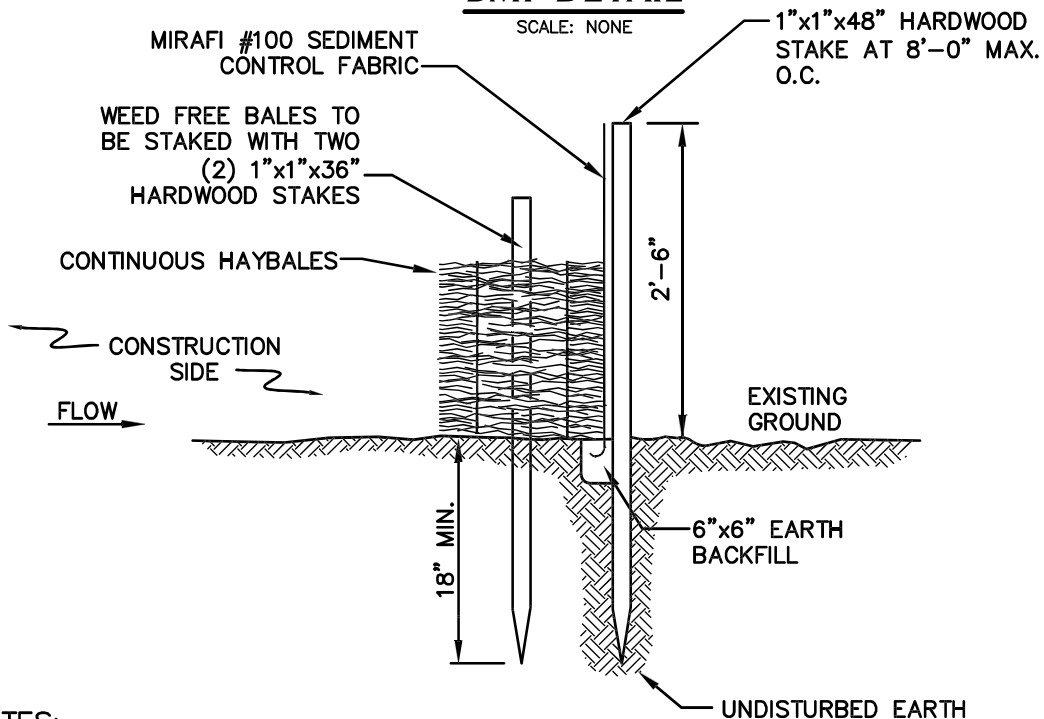
Access, Maintenance and Construction  
Best Management Practices

## Reference

EP No. 3 - Natural Resource  
Protection (Chapter 6)

**BMP DETAIL**

SCALE: NONE

**NOTES:**

1. BALES SHALL BE PLACED IN A ROW WITH THE ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. BALES SHALL BE SECURELY ANCHORED IN PLACE BY TWO (2) 1"x1"x36" HARDWOOD STAKES DRIVEN THROUGH THE BALES. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.
3. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
4. BALES SHALL BE REMOVED AND REPLACED WHEN THEY BECOME FILLED WITH SEDIMENT AND BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
5. BALES SHALL BE REMOVED WHEN THE EMBANKMENTS STABILIZE.
6. BALES TO BE TWINE BOUND.

**BMP PICTURE**

**APPROVED BY: VICE PRESIDENT, ENVIRONMENTAL SERVICES**

PRINTED COPIES ARE NOT DOCUMENT CONTROLLED. FOR LATEST AUTHORIZED  
VERSION PLEASE REFER TO THE NATIONAL GRID ENVIRONMENTAL INFONET SITE.

**SEC-3**  
**SILT FENCE /**  
**WEED FREE BARRIER**

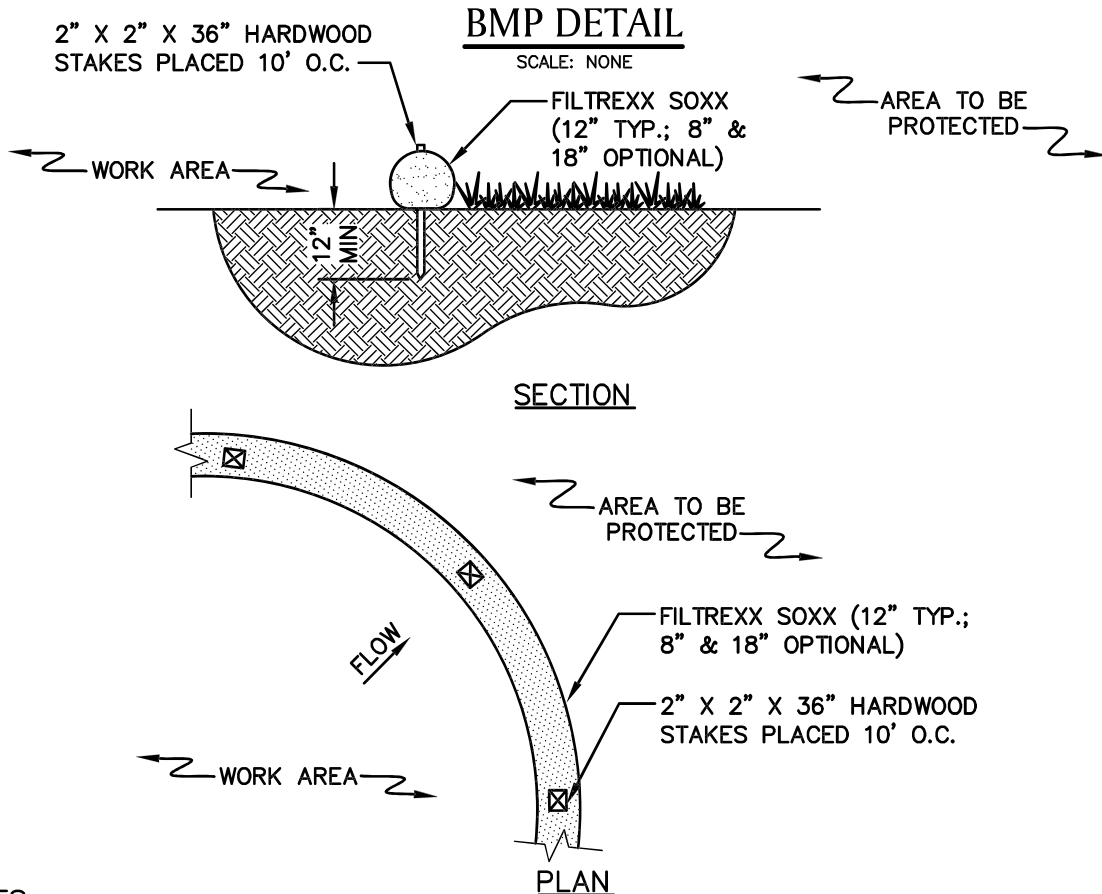


## SUBJECT

Access, Maintenance and Construction  
Best Management Practices

## Reference

EP No. 3 - Natural Resource  
Protection (Chapter 6)

NOTES

1. PRODUCT TO BE FILTREXX SILT SOXX OR APPROVED EQUAL BY NATIONAL GRID ENVIRONMENTAL SCIENTIST.
2. ALL MATERIAL TO MEET FILTREXX SPECIFICATIONS.
3. FILTER MEDIA FILL TO MEET APPLICATION REQUIREMENTS.
4. MESH CONTAINMENT MATERIAL SHOULD BE KNITTED PHOTODEGRADABLE OR BIODEGRADABLE MATERIAL, WITH OPENING SIZES BETWEEN 1/8" - 3/8".
5. COMPOST MEDIA SHOULD HAVE PARTICLE SIZE WHERE 99% < 2", 50% > 1/2".
6. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY NATIONAL GRID ENVIRONMENTAL SCIENTIST.

BMP PICTURE

\* PICTURE AND DETAIL PROVIDED BY FILTREXX LAND IMPROVEMENT SYSTEMS  
APPROVED BY: VICE PRESIDENT, ENVIRONMENTAL SERVICES  
PRINTED COPIES ARE NOT DOCUMENT CONTROLLED. FOR LATEST AUTHORIZED  
VERSION PLEASE REFER TO THE NATIONAL GRID ENVIRONMENTAL INFONET SITE.

SEC-4  
SILT SOXX \*

## SUBJECT

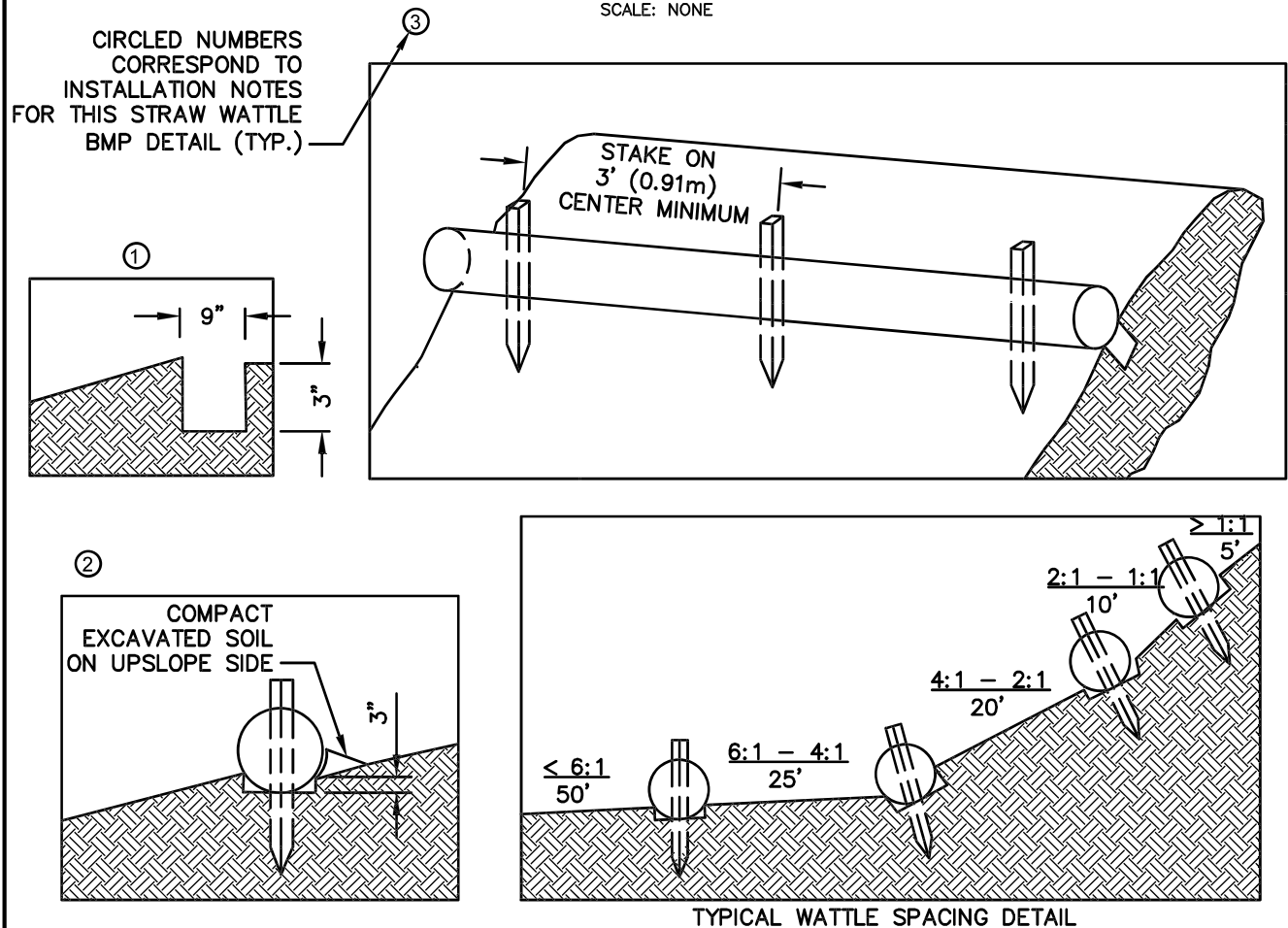
Access, Maintenance and Construction  
Best Management Practices

## Reference

EP No. 3 - Natural Resource  
Protection (Chapter 6)

**BMP DETAIL**

SCALE: NONE

**NOTES:**

1. PRODUCT TO BE TENSAR NORTH AMERICAN GREEN STRAW WATTLE OR APPROVED EQUAL BY NATIONAL GRID ENVIRONMENTAL SCIENTIST.
2. TYPICAL WATTLE SPACING BASED ON SLOPE GRADIENT. COORDINATE SPACING AND LOCATION WITH NATIONAL GRID ENVIRONMENTAL SCIENTIST.
3. 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:**

1. 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.
2. 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.
3. 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  
APPROVED BY: VICE PRESIDENT, ENVIRONMENTAL SERVICES  
PRINTED COPIES ARE NOT DOCUMENT CONTROLLED. FOR LATEST AUTHORIZED  
VERSION PLEASE REFER TO THE NATIONAL GRID ENVIRONMENTAL INFONET SITE.

SEC-5  
STRAW WATTLE \* (1 OF 2)

## SUBJECT

Access, Maintenance and Construction  
Best Management Practices

## Reference

EP No. 3 - Natural Resource  
Protection (Chapter 6)

BMP PICTURE

STRAW WATTLE – SHALLOW SLOPE ( $\leq 4:1$ )  
(ALTERNATE STAKING)

ALTERNATE STAKING INSTALLATION NOTES:

1. ON SHALLOW SLOPES ( $\leq 4:1$ ), 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.
2. TWINE SHALL BE TIED FROM STAKE TO STAKE, CRISS-CROSSING THE STRAW WATTLE. TIE TWINE TO STAKES BELOW THE HEIGHT OF THE WATTLE.



## SUBJECT

Access, Maintenance and Construction  
Best Management Practices

## Reference

EP No. 3 - Natural Resource  
Protection (Chapter 6)

## UPLAND ROW RESTORATION MIX – GENERAL

### Species Composition Options:

- Andropogon gerardii; Niagra Big Bluestem
- Schizachyrium scoparium; Little Bluestem
- Elymus Canadensis; Canada Wild Rye
- Elymus virginicus; Virginia Wildrye
- Lolium multiflorum; Annual Ryegrass
- Sorghastrum nutans; Indiangrass
- Chamaecrista fasciculata; Partridge Pea
- Desmodium canadense; Showy Tick Trefoil
- Heliopsis helianthoides; Ox-Eye Sunflower
- Panicum virgatum; Switchgrass
- Rudbeckia hirta; Black Eyed Susan
- Poa palustris; Fowl Bluegrass
- Agrostis perennans; Upland Bentgrass
- Agrostis alba; Redtop
- Festuca rubra; Red Fescue
- Lotus corniculatus; Birds-Foot Trefoil
- Chrysanthemum leucanthem; Ox-Eye Daisy
- Aster novae-angliae; New England Aster

### Example Seed Mixes:

1. Native Upland wildlife forage and Cover Meadow Mix – Ernst Conservation Seeds (ERNMX-123)
2. Eastern Ecotype Native Grass Mix– Ernst Conservation Seeds (ERNMX-177)
3. New England Native Warm Season Grass Mix – New England Wetland Plants, Inc.
4. New England Logging Road Mix – New England Wetland Plants, Inc.
5. Northeast Upland Wildflower/Restoration Erosion Mix – Southern Tier Consulting (STCMX-2)

## UPLAND ROW RESTORATION MIX – DRY/ROCKY SITES

### Species Composition Options:

- Festuca rubra; Red Fescue
- Schizachyrium scoparium; Little Bluestem
- Elymus Canadensis; Canada Wild Rye
- Bouteloua gracilis; Blue Grama
- Lolium multiflorum; Annual Ryegrass
- Lolium perenne; Perennial Ryegrass
- Agrostis scabra; Rough Bentgrass
- Agrostis perennans; Upland Bentgrass
- Sorghastrum nutans; Indiangrass

### Example Seed Mixes:

1. New England Erosion Control/ Restoration Mix for Dry Sites – New England Wetland Plants, Inc.
2. Ernst Conservation Seeds and similar companies can create a custom seed mix matching the composition above (with site specific additions if necessary).



## SUBJECT

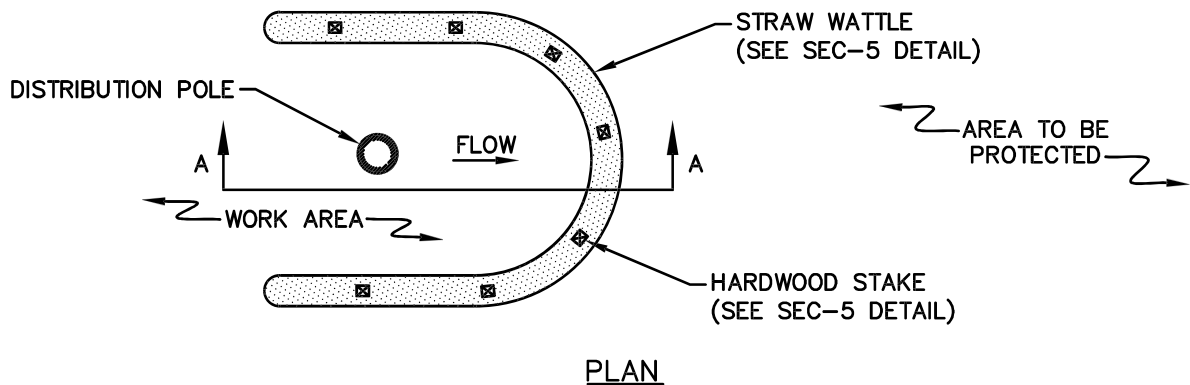
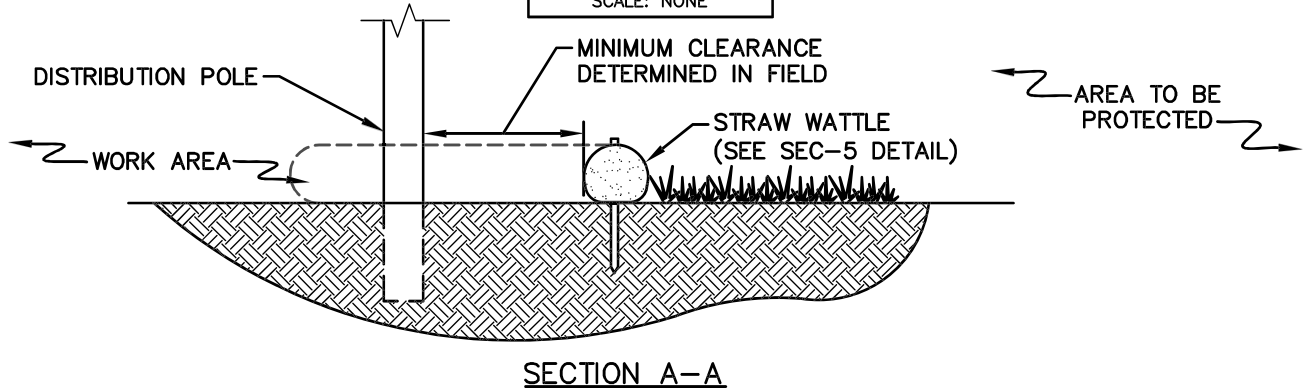
Access, Maintenance and Construction  
Best Management Practices

## Reference

EP No. 3 - Natural Resource  
Protection (Chapter 6)

**BMP DETAIL**

SCALE: NONE

**NOTES**

1. PRODUCT TO BE STRAW WATTLE OR APPROVED EQUAL BY NATIONAL GRID ENVIRONMENTAL SCIENTIST (SEE SEC-5 BMP DETAIL).
2. STRAW BALE BARRIER PER SEC-1 BMP DETAIL TO BE AN AVAILABLE ALTERNATE DEPENDING ON SITE CONDITIONS AT THE DIRECTION OF NATIONAL GRID ENVIRONMENTAL SCIENTIST (SEE FIGURE 2).
3. MINIMUM CLEARANCE BETWEEN POLE AND EROSION CONTROL TO BE DETERMINED BY CONDITIONS OF POLE INSTALLATION/REPLACEMENT WORK AND ASSOCIATED DISTURBANCE.

**BMP PICTURE**

FIGURE 1: TYP. STRAW WATTLE APPLICATION



FIGURE 2: ALT. STRAW BALE APPLICATION

**APPROVED BY: VICE PRESIDENT, ENVIRONMENTAL SERVICES**

PRINTED COPIES ARE NOT DOCUMENT CONTROLLED. FOR LATEST AUTHORIZED  
VERSION PLEASE REFER TO THE NATIONAL GRID ENVIRONMENTAL INFONET SITE.

**SEC-12**  
**DISTRIBUTION POLE**  
**SEDIMENT CONTROL**

## SUBJECT

Access, Maintenance and Construction  
Best Management Practices

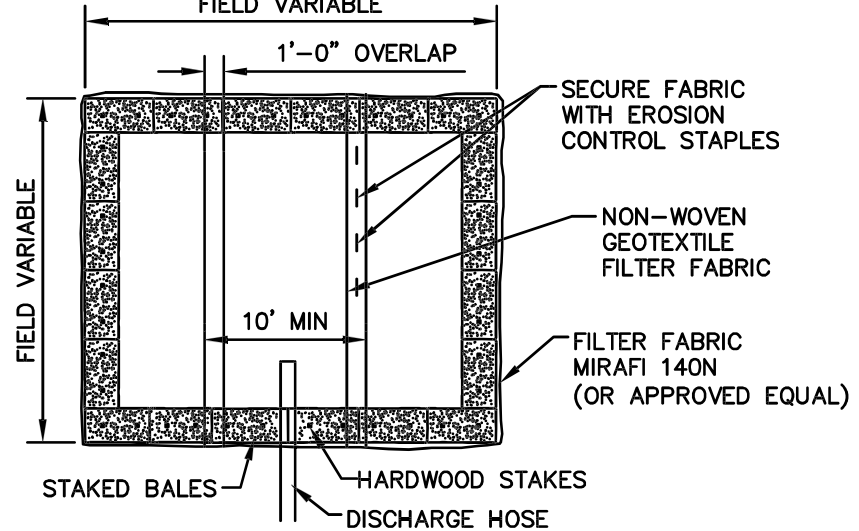
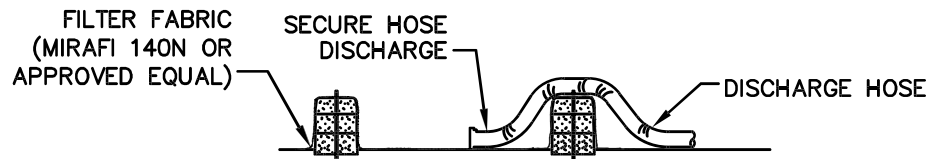
## Reference

EP No. 3 - Natural Resource  
Protection (Chapter 6)

**BMP DETAIL**

SCALE: NONE

FIELD VARIABLE

**PLAN VIEW****CROSS-SECTION****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****APPROVED BY: VICE PRESIDENT, ENVIRONMENTAL SERVICES**

PRINTED COPIES ARE NOT DOCUMENT CONTROLLED. FOR LATEST AUTHORIZED  
VERSION PLEASE REFER TO THE NATIONAL GRID ENVIRONMENTAL INFONET SITE.

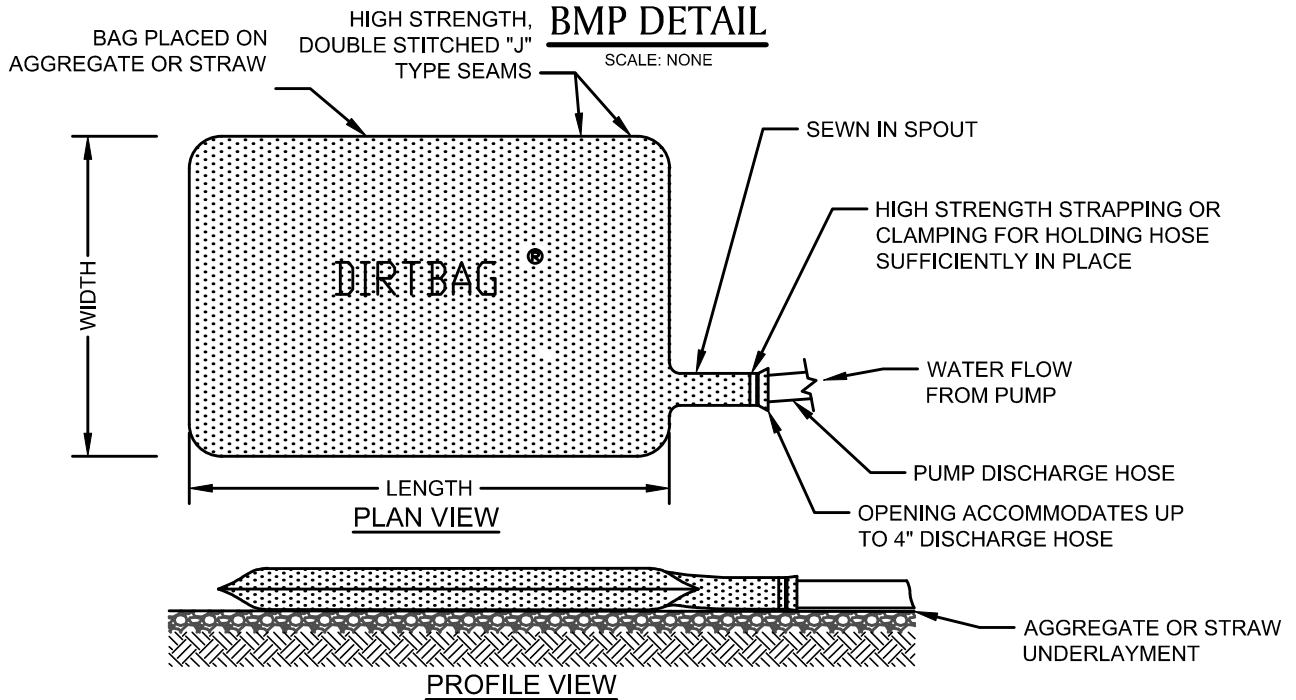
**AA-10**  
**DEWATERING BASIN**  
**(SMALL SCALE)**

## SUBJECT

Access, Maintenance and Construction  
Best Management Practices

## Reference

EP No. 3 - Natural Resource  
Protection (Chapter 6)

**NOTE:**

ONCE PUMPING COMMENCES, THE DIRT BAG SHALL BE MONITORED FREQUENTLY TO ASSURE THAT THE CONNECTIONS ARE SECURELY FASTENED AND THE RATE OF WATER DELIVERY TO THE STRUCTURE IS LOW ENOUGH TO PREVENT UNFILTERED WATER FROM FLOWING FROM THE HOSE CONNECTIONS OR BAG.

**BMP PICTURE**

\* PICTURE AND DETAIL PROVIDED BY ACF ENVIRONMENTAL

**APPROVED BY: VICE PRESIDENT, ENVIRONMENTAL SERVICES**

PRINTED COPIES ARE NOT DOCUMENT CONTROLLED. FOR LATEST AUTHORIZED  
VERSION PLEASE REFER TO THE NATIONAL GRID ENVIRONMENTAL INFONET SITE.

AA-12  
DIRTBAG \*

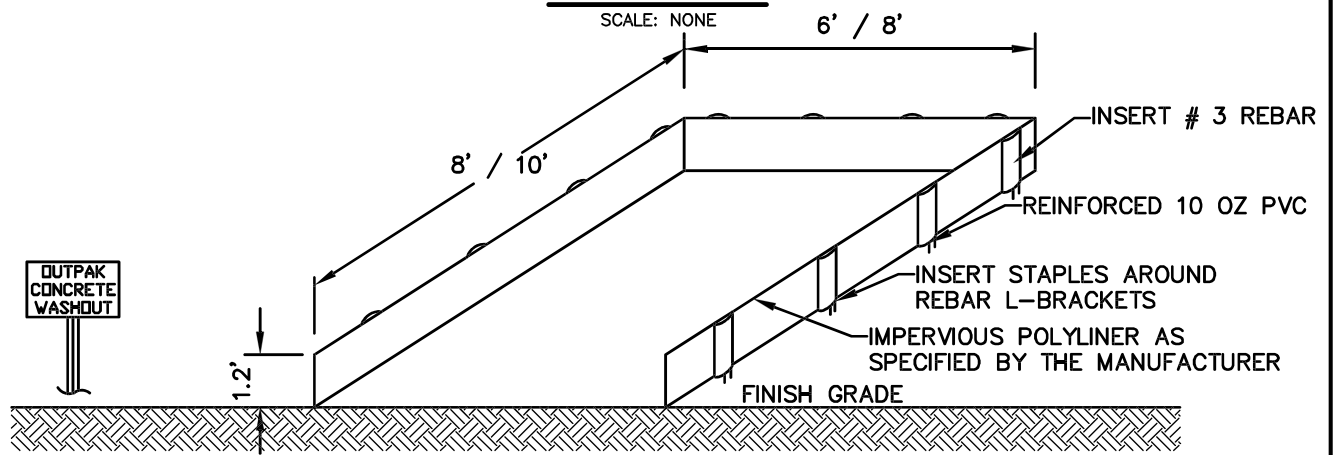


## SUBJECT

Access, Maintenance and Construction  
Best Management Practices

## Reference

EP No. 3 - Natural Resource  
Protection (Chapter 6)

**BMP DETAIL****NOTES:****CROSS SECTION**

1. PRODUCT TO BE OUTPAK PVC CONCRETE WASHOUT OR APPROVED EQUAL BY NATIONAL GRID ENVIRONMENTAL SCIENTIST.
2. THE CONCRETE WASHOUT AREA SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT.
3. SIGNS SHALL BE PLACED AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT.
4. THE CONCRETE WASHOUT AREA WILL BE REPLACED AS NECESSARY TO MAINTAIN CAPACITY FOR WASTE CONCRETE AND OTHER LIQUID WASTE.
5. WASHOUT RESIDUE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN APPROVED WASTE SITE.
6. DO NOT MIX EXCESS AMOUNTS OF FRESH CONCRETE OR CEMENT ON-SITE.
7. DO NOT WASH OUT CONCRETE TRUCKS INTO STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS.
8. AVOID DUMPING EXCESS CONCRETE IN NON-DESIGNATED DUMPING AREAS.
9. LOCATE WASHOUT AREA AT LEAST 50' FROM STORM DRAIN, OPEN DITCHES, OR WATERBODIES. COORDINATE LOCATION WITH NATIONAL GRID ENVIRONMENTAL SCIENTIST.
10. WASH OUT WASTES INTO THE OUTPAK WASHOUT WHERE THE CONCRETE CAN SET, BE BROKEN UP, AND THEN DISPOSED OF PROPERLY.
11. A SECURE, NON-COLLAPSING, NON-WATER COLLECTING COVER MUST BE PLACED OVER CONCRETE WASHOUT PRIOR TO PREDICTED WET WEATHER TO PREVENT ACCUMULATION AND OVERFLOW OF PRECIPITATION.

**BMP PICTURE**

\* PICTURE AND DETAIL PROVIDED BY OUTPAK WASHOUT  
APPROVED BY: VICE PRESIDENT, ENVIRONMENTAL SERVICES  
PRINTED COPIES ARE NOT DOCUMENT CONTROLLED. FOR LATEST AUTHORIZED  
VERSION PLEASE REFER TO THE NATIONAL GRID ENVIRONMENTAL INFONET SITE.

AA-14  
OUTPAK CONCRETE WASHOUT \*

## SUBJECT

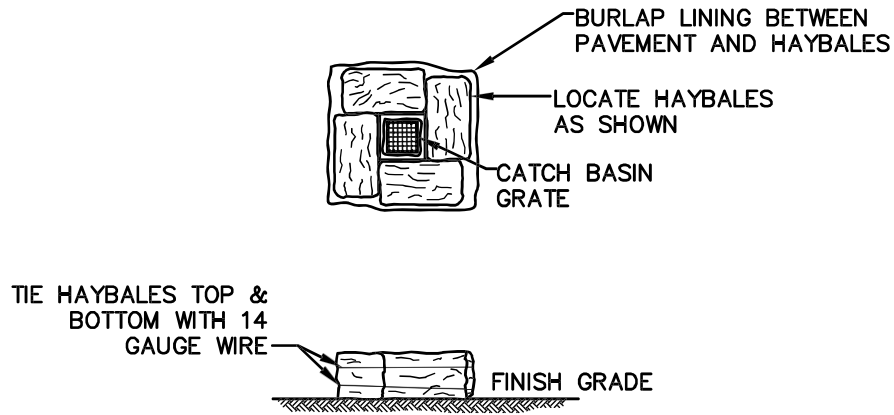
Access, Maintenance and Construction  
Best Management Practices

## Reference

EP No. 3 - Natural Resource  
Protection (Chapter 6)

**BMP DETAIL**

SCALE: NONE

**NOTES:**

1. SURROUND STREET DRAINAGE STRUCTURE INLET WITH HAY BALES PRIOR TO CONSTRUCTION AND MAINTAIN UNTIL CONSTRUCTION IS COMPLETED. ACCUMULATED SEDIMENTS SHALL BE REMOVED.
2. HAYBALES PLACED ON PAVEMENT SHALL HAVE BURLAP PLACED BETWEEN PAVEMENT AND HAYBALE

**BMP PICTURE****APPROVED BY: VICE PRESIDENT, ENVIRONMENTAL SERVICES**

PRINTED COPIES ARE NOT DOCUMENT CONTROLLED. FOR LATEST AUTHORIZED  
VERSION PLEASE REFER TO THE NATIONAL GRID ENVIRONMENTAL INFONET SITE.

**AA-19****CATCH BASIN INLET PROTECTION**

## SUBJECT

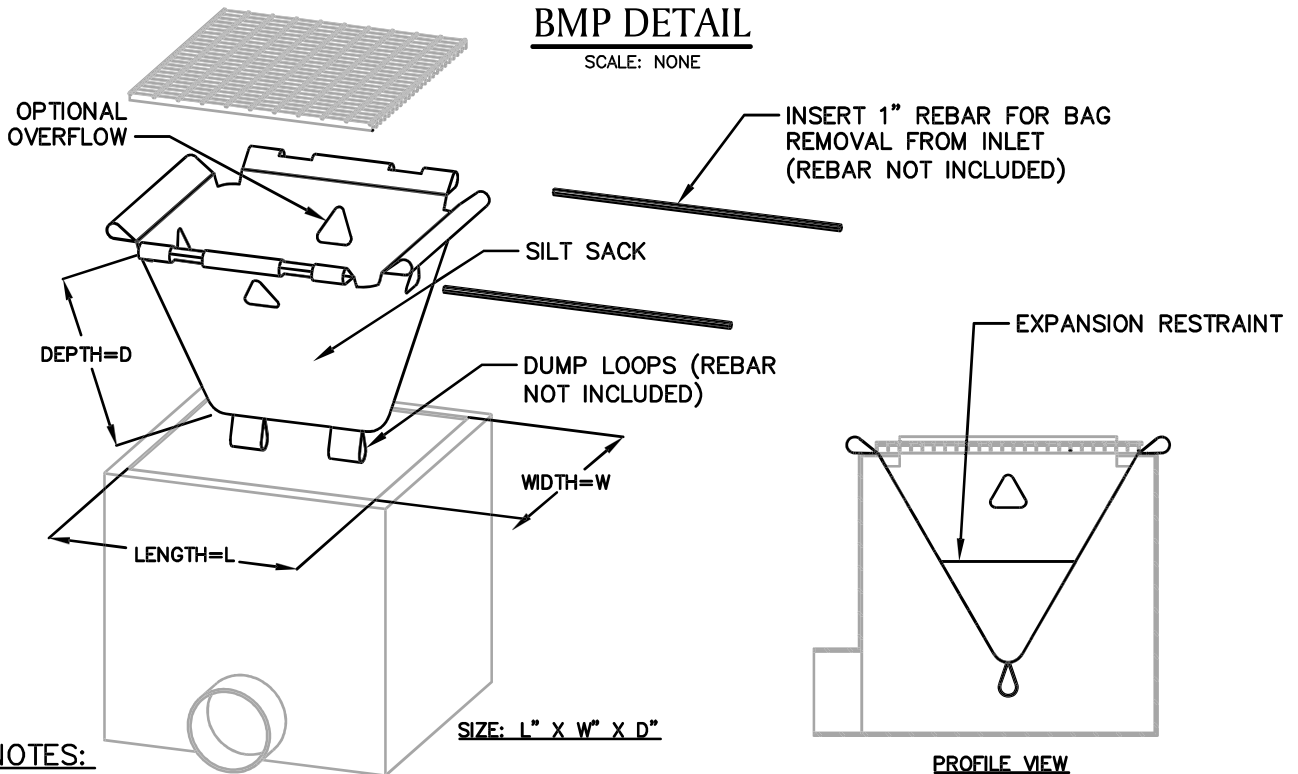
Access, Maintenance and Construction  
Best Management Practices

## Reference

EP No. 3 - Natural Resource  
Protection (Chapter 6)

**BMP DETAIL**

SCALE: NONE

**BMP PICTURE**

\* DETAIL PROVIDED BY ACF ENVIRONMENTAL

APPROVED BY: VICE PRESIDENT, ENVIRONMENTAL SERVICES

PRINTED COPIES ARE NOT DOCUMENT CONTROLLED. FOR LATEST AUTHORIZED  
VERSION PLEASE REFER TO THE NATIONAL GRID ENVIRONMENTAL INFONET SITE.

AA-20  
SILT SACK \*