REQUEST FOR DETERMINATION OF APPLICABILITY

FILED UNDER:
MASSACHUSETTS WETLANDS PROTECTION ACT MGL C131 §40
and the
TOWN OF READING WETLANDS BYLAW

PROJECT:
PROPOSED GAS MAIN ABANDONMENT, RELAY & SERVICE CONNECTION TIE-INS
1-154 EASTWAY, 4-22 DEAN ROAD, AND 570-576 PEARL STREET
READING, MASSACHUSETTS 02128

PREPARED FOR:
BOSTON GAS COMPANY
40 SYLVAN ROAD
WALTHAM, MASSACHUSETTS 02451

PREPARED BY:

CONECO
Engineers & Scientists

238 Littleton Road • Westford, Massachusetts 01886

Phone: (508) 944 - 0479

NOVEMBER 23, 2021
Coneco Project No. 11677
Boston Gas Company Work Request No. 1401271

CONECO
Engineers & Scientists

ENVIRONMENTAL
ECOLOGICAL
ENERGY
SURVEY
CIVIL

November 23, 2021

Reading Conservation Commission
Attn: Charles Tirone, Conservation Agent
Town Hall
16 Lowell Street
Reading, MA 01867

Reference: **Request for Determination of Applicability**
Proposed Gas Main Abandonment, Relay & Service Connection Tie-Ins
1-154 Eastway, 4-22 Dean Road, and 570-576 Pearl Street in Reading
Coneco Project Number: 11677
Boston Gas Company Work Request # 140127

Dear Commission Members:

This Request for Determination of Applicability (RDA) is being submitted by Coneco Engineers & Scientists (Coneco) on behalf of the Boston Gas Company (BGC) for the proposed abandonment, replacement and/or relaying of existing gas mains and the upgrade and tie in of adjacent services in Eastway, Dean Road, and Pearl Street in Reading, Massachusetts.

This RDA is being filed pursuant to the MA Wetlands Protection Act and associated Regulations (310 CMR 10.00) and the Town of Reading's Wetlands By-Law (Section 7.1) and Wetlands Protection Regulations. It is anticipated that work will start in 2021/2022.

MA Wetlands Protection Act Exemption

The proposed project is exempt from the Massachusetts Wetlands Protection Act (Chapter 131, § 40) under Section 310 CMR 10.02(2)(a)2. of the Regulations; activities conducted to maintain, repair or replace, but not substantially change or enlarge an existing and lawfully located structure or facility used in the service of the public and used to provide electric, gas, water, sewer, telephone, telegraph and other communication services, provided said work utilizes the best practical measures to avoid or minimize impacts to wetland resource areas outside of the footprint of said structure or facility.

Town of Reading Wetlands Bylaw and Regulations Exemption

The Reading General Bylaw (Section 7.1) (Amended February 29, 1980) and Reading Wetlands Regulations (November 7, 2012) exempts Normal Maintenance Activities (Section 2 J.):

> *"Maintenance of existing developed or landscaped yards or structures within the buffer zone that does not result in any net loss of native vegetation or permanently alter the soil surface (other than for planting of vegetation) is exempt from filing under the Reading Wetland Regulations. Examples include but are not limited to: trimming of branches and shrubs, pruning (but not removing) trees, and removal of invasive species. If ornamental shrubs located within 25 feet of a Resource Area are removed, they must be replaced by a similar shrub."*

The Reading Wetland Regulations also states under the Performance Standards for Resource Areas (Section 3 G 1) that work within Riverfront areas shall conform to the MA WPA Regulations' performance standards found in 310 CMR 10.58.

> *"Riverfront area shall be defined as in Massachusetts General Laws, Chapter 131, Section 40 and 310 CMR 10.00, as amended, except that all land within 200 feet of any stream or river that is also deemed to be a manmade canal in Reading shall be defined and protected as Riverfront Area. Proposed work in riverfront areas, including work within 200 feet of any perennial stream, river, or manmade canal, shall conform to the performance standards of 310 CMR 10.58, as amended."*

Under 310 CMR 10.58 (6) (a) of the MA Wetlands Project Act, utility lines within riverfront areas in existence on August 7, 1996 are exempt from the Requirements for the Riverfront Area. This section continues to state that the maintenance of utility lines is allowed…without the filing of a Notice of Intent for work within the riverfront area, provided the work is not within another resource area or within buffer zone, except for minor activities as provided in 310 CMR 10.58(6)(b). Changes in existing conditions which will remove, fill, dredge or alter the riverfront area are subject to 310 CMR 10.58…

Under 310 CMR 10.58(6)(b), the minor activities in buffer zone identified in 310 CMR 10.02(2)(b)1., are exempt from the MA WPA. This project meets the definition of a minor project under both 310 CMR 10.02(2)(b)(2) i. and k., making the project exempt from 310 CMR 10.58, exempt from filing under the MA WPA and therefore exempt from filing under the Reading Wetlands General Bylaw and Regulations.

Attached are two copies of the RDA and a check for $100.00 to cover the Town of Reading filing fee under the Reading Wetlands Protection Regulations and Bylaw.

If you have any questions or would like more information, please contact me at 508-944-0479 or via email at mtoohill@coneco.com.

Sincerely,

Michael Toohill, PWS CE CERP
Principal-Ecological Services and Permitting

Attachments: Request for Determination of Applicability

Town Filing Fee

cc: Andrew Shelby, Boston Gas Company
MA DEP NERO

TABLE OF CONTENTS

WPA FORM 1

PROPOSED GAS MAIN ABANDONMENT, RELAY &
SERVICE CONNECTION TIE-INS

EASTWAY, DEAN ROAD, AND PEARL STREET
READING, MASSACHUSETTS

Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

Reading
City/Town

WPA Form 1- Request for Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40
& READING WETLAND PROTECTION BYLAWS SECTION 7.1

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:

Boston Gas Company — Name
drew.shelby@nationalgrid.com — E-Mail Address
Attn: Andrew Shelby, Sr. Environmental Scientist, 40 Sylvan Road — Mailing Address
Waltham — City/Town
MA — State
02451 — Zip Code
508.243.3962 — Phone Number
Fax Number (if applicable)

2. Representative (if any):

Coneco Engineers and Scientists — Firm
Michael Toohill, Principal-Ecological Services and Permitting — Contact Name
mtoohill@coneco.com — E-Mail Address
238 Littleton Road, Suite 105 — Mailing Address
Westford — City/Town
MA — State
01886 — Zip Code
508.944.0479 — Phone Number
Fax Number (if applicable)

B. Determinations

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

☐ 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:

Reading
Name of Municipality

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

WPA Form 1- Request for Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40
& READING WETLAND PROTECTION BYLAWS SECTION 7.1

C. Project Description

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

in the road ROW adjacent to 1 to 154 Eastway, 4-22 Dean Road	Reading
Street Address	City/Town
46 and 52	N/A (Road ROW)
Assessors Map/Plat Number	Parcel/Lot Number

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

The project is located within a residential area with single family homes and local residential roads (See Figure 1 and 2). A stream branching off of Bear Meadow Brook, is located within the project area. See the attached Narrative for a detailed description.

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

FIG 1: USGS QUADRANGLE, PROPOSED GAS MAIN ABANDONMENT, RELAY & SERVICE CONNECTION TIE-INS	11/17/21
Title	Date

FIG 2: AERIAL, GAS MAIN ABANDONMENT, RELAY & SERVICE CONNECTION TIE-INS, 11/17/21	
Title	Date

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

The project involves the abandonment of existing gas mains, the replacement and/or relaying of existing gas mains and the upgrade and tie in of adjacent services to existing mains or new mains from 1 to 154 Eastway and along Dean Road in Reading, Massachusetts. Portions of the work will occur within the 200-foot Bear Meadow Brook Riverfront Area and within the 100-foot Buffer to Inland Bank and Bordering Vegetated Wetland/Fresh Water Wetland. A detailed project description is included in the attached Narrative.

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).

The proposed project is exempt from the Massachusetts Wetlands Protection Act (Chapter 131, § 40) under Section 310 CMR 10.02(2)(a)2. of the Regulations; activities conducted to maintain, repair or replace, but not substantially change or enlarge an existing and lawfully located structure or facility used in the service of the public and used to provide electric, gas, water, sewer, telephone, telegraph and other communication services, provided said work utilizes the best practical measures to avoid or minimize impacts to wetland resource areas outside of the footprint of said structure or facility.

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.)

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:

NA Road ROW
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 | November 23, 2021
Date

Signature of Representative (if any) | November 23, 2021
Date

ATTACHMENT A

NARRATIVE

PROPOSED GAS MAIN ABANDONMENT, RELAY &
SERVICE CONNECTION TIE-INS

EASTWAY, DEAN ROAD, AND PEARL STREET
READING, MASSACHUSETTS

NARRATIVE

1.0 INTRODUCTION

This Request for Determination of Applicability (RDA) is being submitted by Coneco Engineers & Scientists (Coneco) on behalf of the Boston Gas Company (BGC) for the proposed abandonment, replacement and/or relaying of existing gas mains along Eastway and Dean Road in Reading. The new mains will tie in to the existing main in Pearl Street at the Eastway intersection.

This RDA is being filed pursuant to the Massachusetts Wetlands Protection Act and associated Regulations (310 CMR 10.00) and the Town of Reading's Wetlands By-Law (Section 7.1) and Wetlands Protection Regulations. Please refer to the attached Request for Determination of Applicability – WPA Form 1 and the following narrative for specific information concerning the project.

Work will be completed within the roadway pavement, the previously disturbed right of way and landscaped areas. A portion of the work falls within the 100-foot Buffer Zone to Land Under Water, Inland Bank, and Bordering Vegetated Wetland / Fresh Water Wetland and within the 200-foot Bear Meadow Brook Riverfront Area. It is anticipated that work will start in fiscal year 2021/2022.

2.0 EXISTING SITE CONDITIONS

The Project Limits include 1-154 Eastway, 570 and 576 Pearl Street, & 4-22 Dean Road, in Reading (Figure 2). The Project Area consists of residential development, local paved roads, open areas, and wetlands (Figures 2 & 3).

Based on the USGS topographic map, there is a mapped perennial stream, a branch of Bear Meadow Brook, within 200 feet of the work area (Figure 1). Photographs representative of Project Area adjacent to Bear Meadow Brook are included in ATTACHMENT D.

According to MassGIS Department of Environmental Protection Wetlands data layer, a brook and vegetated wetlands are located within the immediate project area (Figure 3).

The Project Area encroaches on a FEMA Area of Minimal Flood Hazard Zone (Figure 4). This area has a 1% annual flood with average depth less than one foot. A small section of the project, where the proposed gas line will attach with a pre-existing gas line, will occur in the outer extents of the Flood Zone. This project, however, is proposed to occur sub-surface and within a pre-existing road with curb walls and therefore will not impede flood flow, affect public, private or ground water supply or have any effect on wildlife. Additionally, no fill in the floodplain will occur therefore compensatory storage is not required.

A review of the current Mass GIS data layer for the Natural Heritage and Endangered Species Program's (NHESP) Massachusetts Natural Heritage Atlas (14th Edition, August 2017) indicates that the Project Area is not located within an Estimated Habitat of Rare Wetlands Wildlife. There is a Certified Vernal Pool far to the west of the project area (Figure 5).

According to MassGIS, there are no Outstanding Resource Waters, Areas of Critical Environmental Concern, or Interim Wellheads, Zone Is or Zone IIs within the project limits (Figure 6).

2.2 Wetland Resource Areas

A Coneco Environmental Scientist conducted a site review at the Project Limits on November 18, 2021, to identify wetlands, water courses and other resource areas subject to local, state, and federal jurisdiction within 100 and 200 feet from the Project Limits. A formal delineation has not been completed.

A stream branching off Bear Meadow Brook, a perennial stream, is located within the Project Area. The stream is bordered by a forested deciduous Bordering Vegetated Wetland/Fresh Water Wetland and has a 100-year floodplain meeting the definition of Bordering Land Subject to Flooding. The brook flows from north to south through the Project Area starting east of the Eastway/Dean Road intersection, continues under Eastway and then daylights south of Eastway outside the Project Limits. Bear Meadow Brook, to the northeast of Eastway continues through a shallow marsh meadow until it intersects Haverhill Street to the east.

A certified vernal pool is located west of the intersection of Eastway and Pearl Street (Figure 5). According to MA GIS, the vernal pool is located approximately 420 feet from the edge of the western limit of the project.

Jurisdictional resource areas identified within 100 feet of the Project Limits include Land Subject to Flooding, Inland Bank, Land Under Water, and Bordering Vegetated Wetland/Fresh Water Wetland associated with Bear Meadow Brook. Portions of the Project Limits are located within the 200-foot Bear Meadow Brook Riverfront Area.

3.0 PROPOSED WORK

The project involves the abandonment of existing gas mains, the replacement and/or relaying of existing gas mains and the upgrade and tie in of adjacent services to existing mains or new mains along Eastway and Dean Road in Reading, Massachusetts. The following specific project activities are proposed:

- Install approx. 60 feet of 6-inch, 60 psig plastic from the existing 6-inch, 60 psig plastic at 576 Pearl Street to the intersection of Pearl Street and Eastway.

- Install 1,110 ft of 4-inch pl 60 psig main in Eastway, from Pearl Street to the existing 6-inch, lp coated steel (1980) - (urdg0001) main in Eastway. Boston Gas Company pressure tested the existing 6-inch, lp coated steel main crossing the culvert in Eastway and determined that the steel pipe needed to be replaced and abandoned.

- Install 1,510 feet of 4-inch pl 60 psig main in Eastway, from the pressure upgraded 6-inch, lp coated steel main to the end of main in Eastway. Approximately 1,510 feet pf 6-inch, lp plastic (1980) will be abandoned.

- Install 370 ft of 2-inch pl 60 psig main in Dean Road, from Eastway to the end of Dean Road. 370 ft of 4-inch cs lp main in Dean Road will be abandoned.

- 4 main connections / cut offs will occur, and all active services that are to be transferred from the main are scoped to be retired.

A portion of the work along Eastway will occur within 100 feet of Bordering Vegetated Wetland / Fresh Water Wetlands, Inland Bank and Land Under Water associated with Bear Meadow Brook and within the 200-foot Bear Meadow Brook Riverfront Area and Land Subject to Flooding. The existing residences along Eastway separate the gas main from Bear Meadow Brook.

All construction staging and stockpiling will occur outside resource areas, i.e. more than 200 feet from the mean high-water mark of Bear Meadow Brook.

We anticipate no adverse impacts to any resource areas as a result of this project.

Construction is anticipated to start in the 2021/2022 fiscal year and be completed within one year.

4.0 BEST MANAGEMENT PRACTICES

To limit potential impacts to the resource area, erosion, and sedimentation control Best Management Practices (BMPs) including the following will be used along the Project Limits:

- Straw wattles secured by wooden stakes (or an approved equivalent) will be installed between the edge of the work area and resource areas as necessary.
- Silt sacks will be installed for inlet protection in catch basins within the vicinity of the work area, as necessary.
- Dewatering basins constructed out of straw bales, stone and mirafi fabric will be used in the event dewatering of ground water is required during the trench work.

Details of proposed BMPs are included in ATTACHMENT E.

In addition, the project is being constructed with the following conditions:

- Underground utilities will be installed within the roadway or driveway and all trenches will be closed at the completion of each workday.
- New equipment will be installed within existing or approved gas facilities and will be contained entirely within developed/disturbed existing fenced yards; and/or
- If necessary, the removal of existing utility equipment along existing or approved roadways will be completed in a manner such that all vehicles and machinery are located on the roadway surface during work.
- Gas lines crossing Bear Meadow Brook will not be replaced. Proposed gas lines will connect to pre-existing gas lines before entering and after clearing the area of the stream crossing the road.

Temporarily disturbed areas will be stabilized and restored to pre-construction conditions to the extent practicable, and all construction materials, vehicles, and nonbiodegradable sediment controls will be removed from the site upon completion of work.

Any disturbance to asphalt ROW is temporary in nature, and the paved surfaces will be restored to their pre-existing conditions (to the extent practicable) following completion of work.

A copy of National Grid's Environmental Guidance for Right-of-Way Access, Maintenance, and Construction BMPs is available upon request.

5.0 GENERAL CONSTRUCTION SEQUENCE

The following is a general construction sequence for the installation of the proposed natural gas main relay project. The sequence of construction may vary slightly as necessary to assure completion of the overall project.

1. Sediment controls will be installed at the Project Route, as necessary. All of the Project Route is constructed with a curb and gutter storm water management system. Proposed work will be performed within the paved ROW; therefore, catch basin inlet protection will be installed as necessary along the Project Route.
2. Pavement will be saw cut to the dimensions of the excavation. This will vary from 1-2 feet in width with larger excavations at junctions or where ancillary equipment will be installed.
3. Soil will be excavated to a depth of 2-4 feet and either side cast (deposited temporarily adjacent to the excavation) or into a dump truck.
4. A gravel bed will be laid within the trench to cradle the pipe.
5. New pipe (6-inch diameter plastic) will be laid in the trench and connected to the existing natural gas main.
6. The trench will be backfilled either with the excavated soil or with clean fill as necessary at the end of each workday and covered with steel plates or temporary/permanent bituminous pavement. During this process caution tape is left above the pipe to alert future workers of the existence of the pipe. No excavated soil will be left on-Site at the conclusion of each workday.
7. The road will be repaved, following existing contours.
8. Project area cleanup and erosion control removal will include proper disposal of any surplus soil or other materials.

6.0 REGULATORY COMPLIANCE

MA Wetlands Protection Act Exemption

The proposed project is exempt from the Massachusetts Wetlands Protection Act (Chapter 131, § 40) under Section 310 CMR 10.02(2)(a)2. of the Regulations; activities conducted to maintain, repair or replace, but not substantially change or enlarge an existing and lawfully located structure or facility used in the service of the public and used to provide electric, gas, water, sewer, telephone, telegraph and other communication services, provided said work utilizes the best practical measures to avoid or minimize impacts to wetland resource areas outside of the footprint of said structure or facility.

Town of Reading Wetlands Bylaw and Regulations Exemption

The Reading General Bylaw (Section 7.1) (Amended February 29, 1980) and Reading Wetlands Regulations (November 7, 2012) exempts Normal Maintenance Activities (Section 2 J.):

"Maintenance of existing developed or landscaped yards or structures within the buffer zone that does not result in any net loss of native vegetation or permanently alter the soil surface (other than for planting of vegetation) is exempt from filing under the Reading Wetland Regulations. Examples include but are not limited to trimming of branches and shrubs, pruning (but not removing) trees, and removal of invasive species. If ornamental shrubs located within 25 feet of a Resource Area are removed, they must be replaced by a similar shrub."

The Reading Wetland Regulations also states under the Performance Standards for Resource Areas (Section 3 G 1) that work within Riverfront areas shall conform to the MA WPA Regulations' performance standards found in 310 CMR 10.58.

"Riverfront area shall be defined as in Massachusetts General Laws, Chapter 131, Section 40 and 310 CMR 10.00, as amended, except that all land within 200 feet of any stream or river that is also deemed to be a manmade canal in Reading shall be defined and protected as Riverfront Area. Proposed work in riverfront areas, including work within 200 feet of any perennial stream, river, or manmade canal, shall conform to the performance standards of 310 CMR 10.58, as amended."

Under 310 CMR 10.58 (6) (a) of the MA Wetlands Project Act, utility lines within riverfront areas in existence on August 7, 1996, are exempt from the Requirements for the Riverfront Area. This section continues to state that the maintenance of utility lines is allowed…without the filing of a Notice of Intent for work within the riverfront area, provided the work is not within another resource area or within buffer zone, except for minor activities as provided in 310 CMR 10.58(6)(b). Changes in existing conditions which will remove, fill, dredge or alter the riverfront area are subject to 310 CMR 10.58…

Under 310 CMR 10.58(6)(b), the following minor activities in buffer zone identified in 310 CMR 10.02(2)(b)1., are exempt from the MA WPA:

- *the installation of underground utilities (e.g., electric, gas, water) within existing paved or unpaved roadways and private roadways/driveways are exempt from the MA WPA provided that all work is conducted within the roadway or driveway and that all trenches are closed at the completion of each workday (310 CMR 10.02(2)(b)(2) i.)*

- *the installation of new equipment within existing or approved electric or gas facilities when such equipment is contained entirely within the developed/disturbed existing fenced yard are exempt from the MA WPA (310 CMR 10.02(2)(b)(2) k.).*

This project meets the definition of a minor project under both 310 CMR 10.02(2)(b)(2) i. and k., making the project exempt from 310 CMR 10.58, exempt from filing under the MA WPA and therefore exempt from filing under the Reading Wetlands General Bylaw and Regulations.

According to FEMA, the project enters a Land Subject to Flooding however, all project work is taking place sub surface within existing roadways and therefore will not impede

flood flow, affect public, private or ground water supply or have any effect on wildlife. Additionally, no fill will occur.

7.0 SUMMARY

The project involves the abandonment of existing mains, the replacement and/or relaying of existing gas mains and the upgrade and tie in of adjacent services to existing mains or new mains along Eastway and Dean Road in Reading, Massachusetts. Part of the work will occur within the 200-foot Bear Meadow Brook Riverfront Area and Land Subject to Flooding, as well as within 100-feet of other wetland resource areas.

Coneco, on behalf of Boston Gas Company, is requesting concurrence that:

1. The proposed activities involve the maintenance, repair, and replacement of an existing and lawfully located structure used in the service of the public and used to provide gas services and is therefore exempt from the Massachusetts Wetlands Protection Act according to 310 CMR 10.02(2)(a)2. of the Regulations.

2. A portion of the work is subject to a municipal ordinance or bylaw but not subject to the Massachusetts Wetlands Protection Act.

3. Although the work is partly within the Buffer Zone of regulated resource areas and partly within Riverfront Area and Land Subject to Flooding, the work will not alter an Area subject to protection under the Reading Wetlands Protection Bylaw and Regulations.

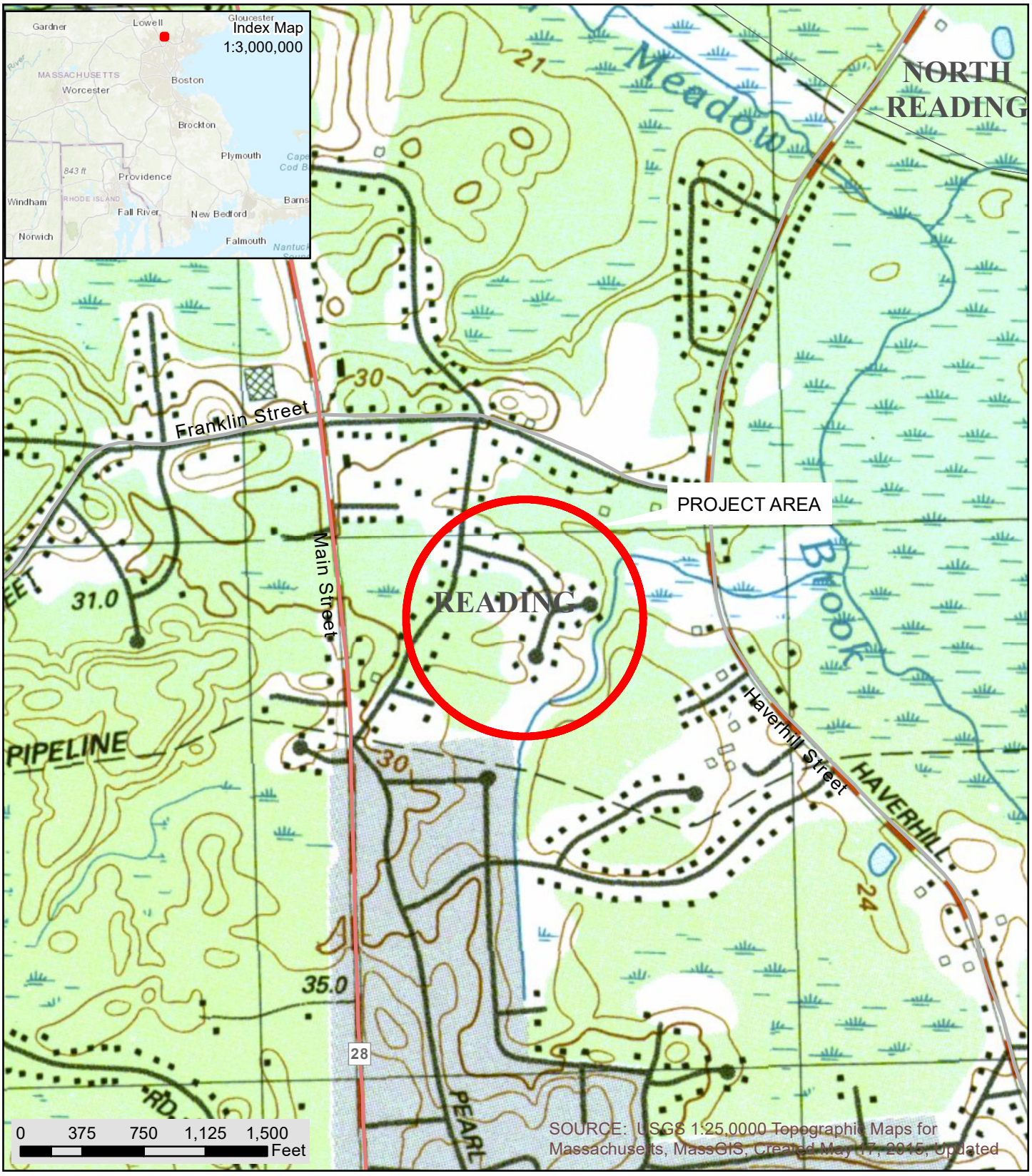
Coneco respectfully requests that the Town of Reading Conservation Commission issue a Negative Determination, allowing the project to proceed as proposed.

ATTACHMENT B

FIGURES

PROPOSED GAS MAIN ABANDONMENT, RELAY &
SERVICE CONNECTION TIE-INS

EASTWAY, DEAN ROAD, AND PEARL STREET
READING, MASSACHUSETTS



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1:10,000

FIGURE 1: USGS TOPOGRAPHIC MAP

from Brockton, MA Quadrangle, 7.5 Minute Series

PROPOSED GAS MAIN ABANDONMENT, RELAY & SERVICE CONNECTION TIE-INS

1-154 Eastway and Dean Road Reading, Massachusetts
42.552085°N , -71.101826°W to 42.547874°N, -71.099824°W

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
USGS, MassGIS

CONECO Engineers & Scientists

N

1:4,000

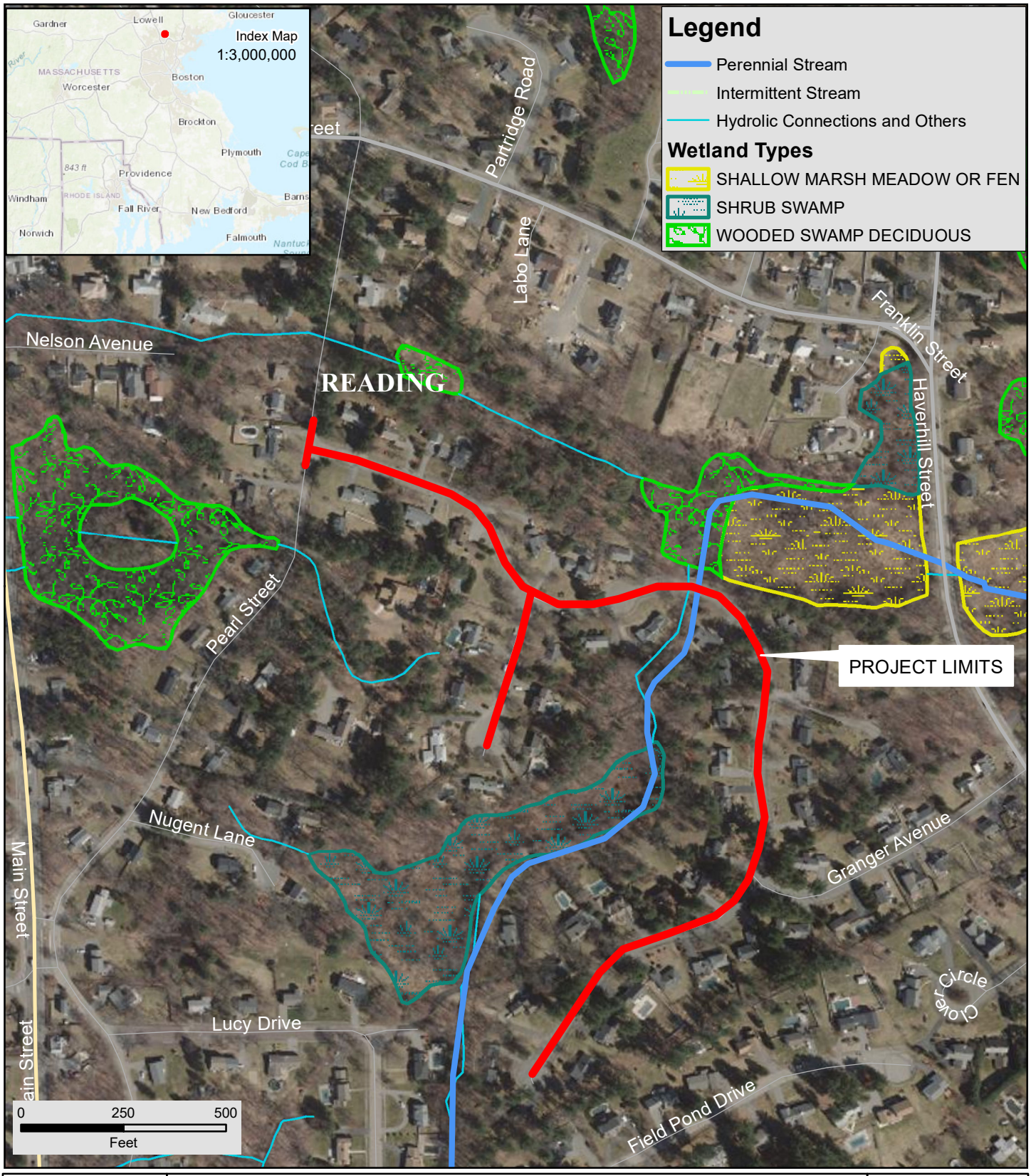
FIGURE 2: AERIAL IMAGE
PROPOSED GAS MAIN ABANDONMENT, RELAY & SERVICE CONNECTION TIE-INS

1-154 Eastway and Dean Road Reading, Massachusetts

42.552085°N , -71.101826°W to 42.547874°N, -71.099824°W

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

CONECO Engineers & Scientists



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1:4,000

FIGURE 3: MA DEP WETLANDS
PROPOSED GAS MAIN ABANDONMENT, RELAY & SERVICE CONNECTION TIE-INS

1-154 Eastway and Dean Road Reading, Massachusetts
42.552085°N , -71.101826°W to 42.547874°N, -71.099824°W

MassDEP
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
MassGIS, USGS

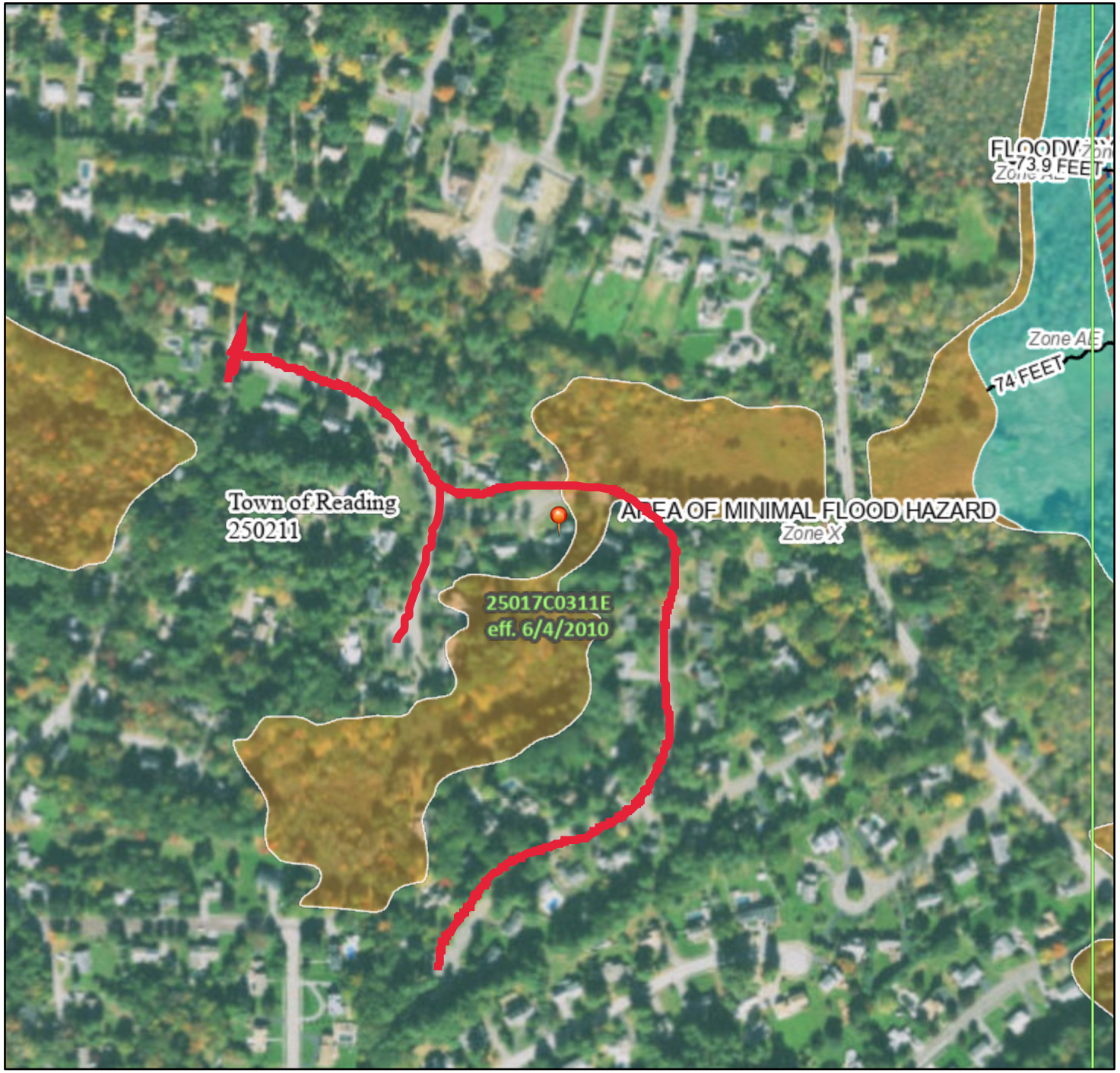
CONECO Engineers & Scientists

THIS DOCUMENT IS INTENDED FOR GENERAL PLANNING & INFORMATION PURPOSES ONLY. ALL MEASUREMENTS & LOCATIONS ARE APPROXIMATE.

National Flood Hazard Layer FIRMette

FEMA

71°6'14"W 42°33'16"N



0 250 500 1,000 1,500 2,000 Feet

1:6,000

71°5'37"W 42°32'50"N

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 11/18/2021 at 2:19 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Figure 4

N

1:4,000

FIGURE 5: MA Natural Heritage Endangered Species Program VERNAL POOLS, PRIORITY HABITAT & ESTIMATED HABITAT

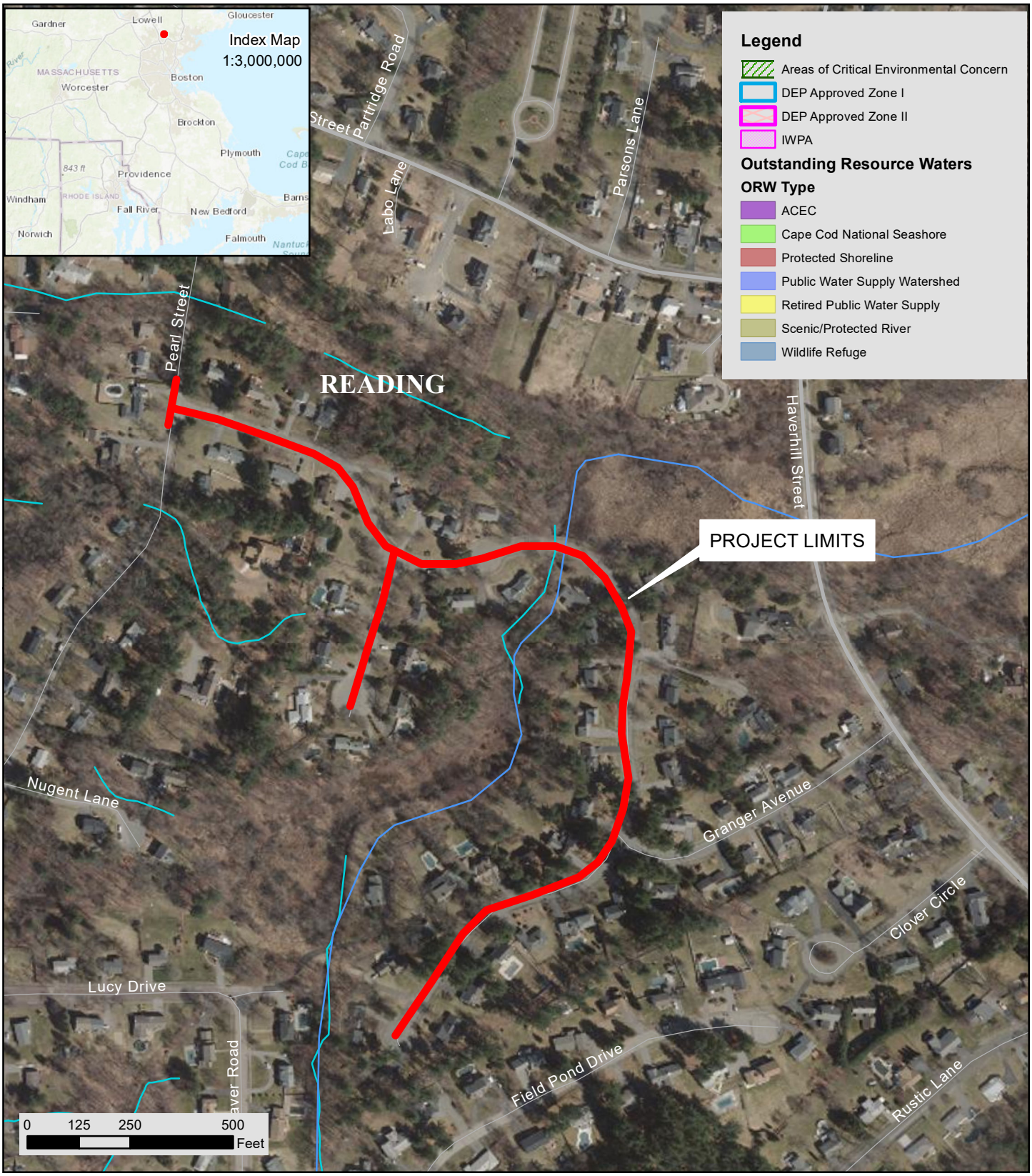
PROPOSED GAS MAIN ABANDONMENT, RELAY & SERVICE CONNECTION TIE-INS

1-154 Eastway and Dean Road Reading, Massachusetts
42.552085°N , -71.101826°W to 42.547874°N, -71.099824°W

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
MassGIS, NHESP

CONECO Engineers & Scientists

THIS DOCUMENT IS INTENDED FOR GENERAL PLANNING & INFORMATION PURPOSES ONLY. ALL MEASUREMENTS & LOCATIONS ARE APPROXIMATE.



N

1:4,000

FIGURE 6: CRITICAL AREAS (ACECs, ORWS, GROUND WATER PROTECTION AREAS, ETC.)

PROPOSED GAS MAIN ABANDONMENT, RELAY & SERVICE CONNECTION TIE-INS

1-154 Eastway and Dean Road Reading, Massachusetts
42.552085°N , -71.101826°W to 42.547874°N, -71.099824°W

MassGIS
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

CONECO Engineers & Scientists

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ATTACHMENT C

NOTICE TO ABUTTERS
AFFIDAVIT OF SERVICE
ABUTTERS LIST

PROPOSED GAS MAIN ABANDONMENT, RELAY &
SERVICE CONNECTION TIE-INS

EASTWAY, DEAN ROAD, AND PEARL STREET
READING, MASSACHUSETTS

Notification to Abutters Under the the Reading Wetlands Bylaw

In accordance with the Town of Reading Wetlands Bylaw, you are hereby notified of the following:

A. The name of the applicant is

Boston Gas Company

B. The applicant has filed a Request for Determination of Applicability with the Reading Conservation Commission in accordance with the Town of Reading Wetlands Bylaw.

C. The address of the lot where the activity is proposed is withing the Right-of-Way of Eastway, Dean Road, and Pearl Street

D. The activity consist of
the abandonment, replacement and/or relaying of existing gas mains and the upgrade and tie in of adjacent services from 1 to 154 Eastway and along Dean Road and a small portion of Pearl Street.

E. Copies of the filing may be examined at the Conservation Commission office, Town Hall, between the hours of 7 am and 5:30 pm, M-Thursday, Friday's Closed.
For more information, Call: (781) 942 -6616

F. A digital copy of the Notice of Intent may be obtained from Michael Toohill by Calling 508.944.0479 during the hours 9:00 am to 5:00 pm, Monday - Friday

G. Information regarding the date, time, and place of the public hearing may be obtained from the Conservation Commission Office by calling **781-941-6616** during the hours listed above

NOTE: Notice of the public hearing, including its date, time, and place, will be published at least five (5) days in advance in the Reading Daily Times Chronicle.

NOTE: Notice of the public hearing, including its date, time, and place, will be posted in the City or Town Hall not less than forty-eight (48) hours in advance.

NOTE: You also may contact the Reading Conservation Commission, (781) 942-9016, or the Department of Environmental Protection,(DEP) Regional Office for more information about this application or the Wetlands Protection Act.To contact DEP call the Northeast Regional Office at (978)694-3200

ATTACHMENT D

PHOTOGRAPHS

PROPOSED GAS MAIN ABANDONMENT, RELAY &
SERVICE CONNECTION TIE-INS

EASTWAY, DEAN ROAD, AND PEARL STREET
READING, MASSACHUSETTS

Photo 1: Intersection of Pearl Street and Eastway Looking east. Photo taken 11/17/21

Photo 2: Intersection of Eastway and Dean Road. Looking south. Photo taken 11/17/21

Photo 3: Eastway looking northwest. Photo taken 11/17/21

Photo 4: Dean Street cul-de-sac. Looking south. Photo taken 11/17/21

Photo 5: Bridge crossing of Bear Meadow Swamp on Eastway looking east. Photo from Google Earth.

Photo 6: Bear Meadow Brook on Eastway. Looking south. Photo taken on 11/17/21

Photo 7: Bear Meadow Brook on Eastway looking southeast. Photo taken 11/17/21

Photo 8: Bear Meadow Brook on Eastway looking northeast. Photo taken 11/17/21

Photo 9: Intersection of Eastway and Granger Avenue. Looking south. Photo taken 11/17/21

Photo 10: Near cul-de-sac of Eastway. Looking south. Photo taken 11/17/21

ATTACHMENT E

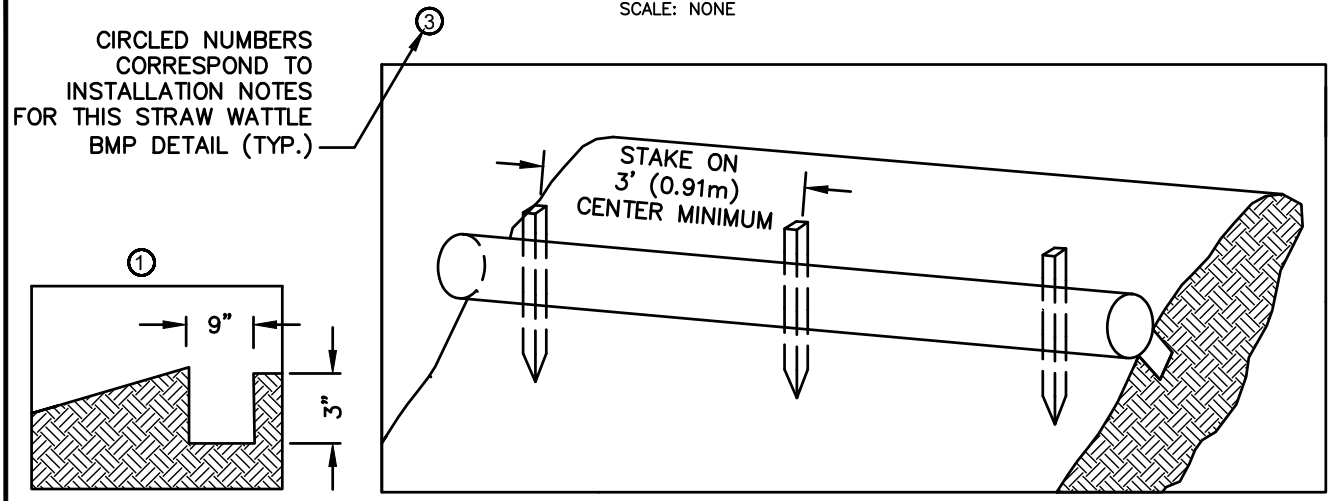
BEST MANAGEMENT PRACTICES

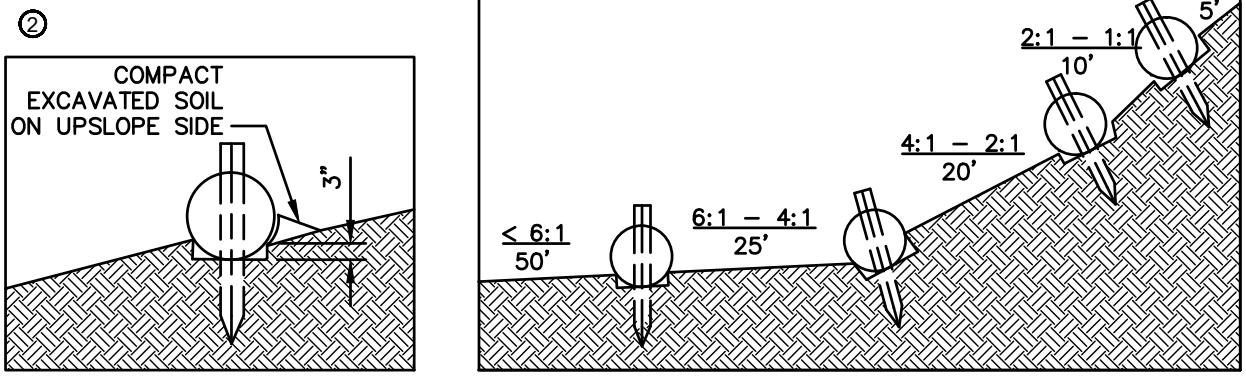
PROPOSED GAS MAIN ABANDONMENT, RELAY &
SERVICE CONNECTION TIE-INS

EASTWAY, DEAN ROAD, AND PEARL STREET
READING, MASSACHUSETTS

BMP DETAIL

SCALE: NONE





TYPICAL WATTLE SPACING DETAIL

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

SEC-5

STRAW WATTLE * (1 OF 2)

File: Straw_Wattle.dwg

BMP PICTURE

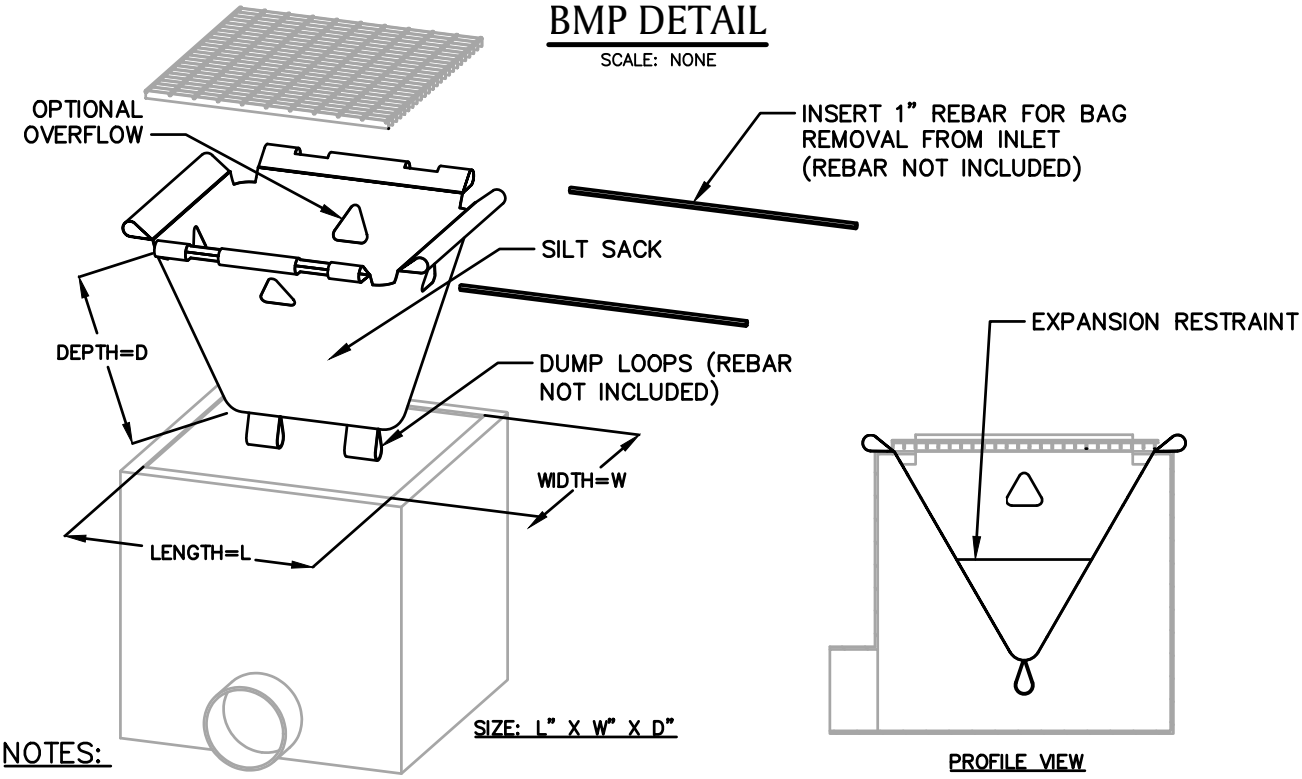
STRAW WATTLE – SHALLOW SLOPE (≤4:1)
(ALTERNATE STAKING)

ALTERNATE STAKING INSTALLATION NOTES:

1. ON SHALLOW SLOPES (≤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.

BMP DETAIL

SCALE: NONE



NOTES:

1. PRODUCT TO BE SILT SACK OR APPROVED EQUAL BY NATIONAL GRID ENVIRONMENTAL SCIENTIST.
2. THE USE OF A SILT SACK OPTIONAL OVERFLOW AND OVERALL DIMENSIONS ARE TO BE COORDINATED WITH A NATIONAL GRID ENVIRONMENTAL SCIENTIST.

BMP PICTURE

*** DETAIL PROVIDED BY ACF ENVIRONMENTAL**

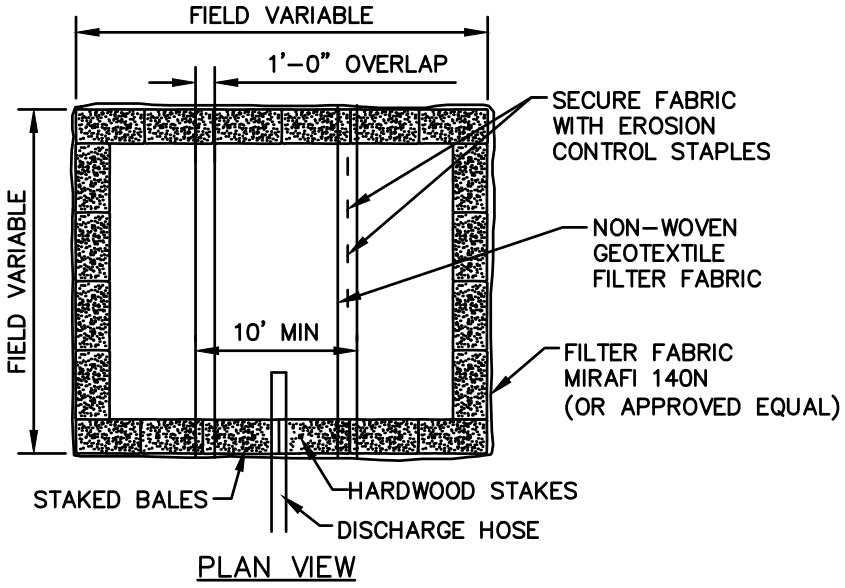
APPROVED BY: VICE PRESIDENT, ENVIRONMENTAL SERVICES

AA-20
SILT SACK *

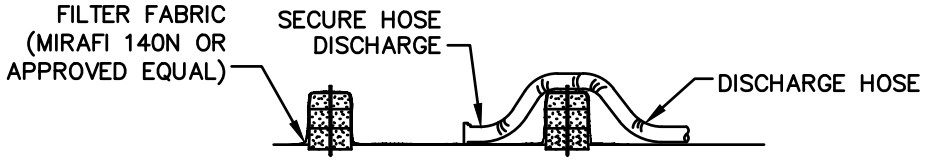
File: SILT SACK.dwg

BMP DETAIL

SCALE: NONE



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

AA-10
DEWATERING BASIN
(SMALL SCALE)

File: Dewat_Bas_Small.dwg