



Arlington Conservation Commission

Date: Thursday, October 17, 2024
Time: 7:00 PM
Location: Conducted by Remote Participation.

Please register in advance for this meeting. Reference materials, instructions, and access information for this specific meeting will be available 48 hours prior to the meeting on the Commission's agenda and minutes page. This meeting will be conducted in a remote format consistent with Chapter 2 of the Acts of 2023, which further extends certain COVID-19 measures regarding remote participation in public meetings until March 31, 2025. Please note: Not all items listed may in fact be discussed and other items not listed may be brought up for discussion to the extent permitted by law. This agenda includes those matters which can be reasonably anticipated to be discussed at the meeting.

Agenda

1. Administrative
 - a. Correspondence Received.
All correspondence is available to the public. For a full list, contact the Conservation Agent at concomm@town.arlington.ma.us.
 - b. Administrative Report.
2. Discussion
 - a. Enforcement Order Ratification: 335 Mystic Street.
 - b. Enforcement Order: 66-66R Dudley Street/993 Massachusetts Avenue.
 - c. Enforcement Order Ratification: 40 Park Avenue/1293-1305 Massachusetts Avenue.
 - The Commission is expected to continue discussion of this matter to the meeting of November 7, 2024.
 - d. Water Bodies Working Group.
 - e. Tree Committee Update.
 - f. CPA Committee Update.
 - g. Park & Recreation Commission Liaison.
 - h. Symmes Conservation Restriction.
3. Hearings

Request for Determination of Applicability: 37 Beverly Road.

Request for Determination of Applicability: 37 Beverly Road.

The Arlington Conservation Commission will hold a public hearing to consider a Request for Determination of Applicability under the Wetlands Protection Act (WPA) and Arlington Bylaw for Wetlands Protection for installation of a dock at 37 Beverly Road.

Request for Determination of Applicability: Multiple Locations.

Request for Determination of Applicability: Multiple Locations.

The Arlington Conservation Commission will hold a public hearing to consider a Request for Determination of Applicability under the Wetlands Protection Act (WPA) and Arlington Bylaw for Wetlands Protection for gas main replacements at North Union Street, Gordon Road, Wheaton Road, Patrick Street, and Purcell Road in Arlington.

Request for Determination of Applicability: Mystic Street and Old Mystic Street.

Request for Determination of Applicability: Mystic Street and Old Mystic Street.

The Arlington Conservation Commission will hold a public hearing to consider a Request for Determination of Applicability under the Wetlands Protection Act (WPA) and Arlington Bylaw for Wetlands Protection for gas main replacements at Mystic Street and Old Mystic Street in Arlington.



Town of Arlington, Massachusetts

Correspondence Received.

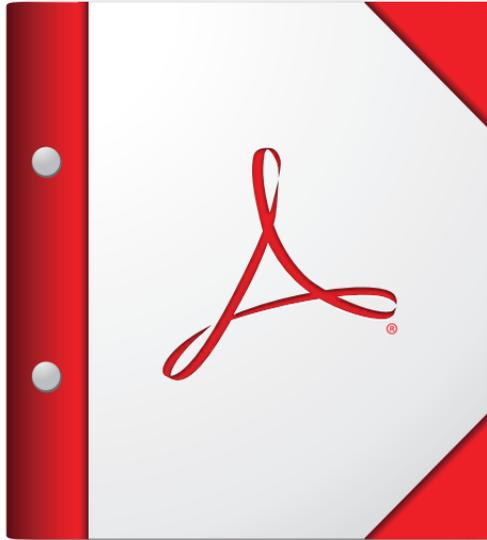
Summary:

Correspondence Received.

All correspondence is available to the public. For a full list, contact the Conservation Agent at concomm@town.arlington.ma.us.

ATTACHMENTS:

Type	File Name	Description
▢ Reference Material	Correspondence_Received_-_Susan_Chapnick_-_Artificial_Turf_Webinar.pdf	Correspondence Received - Susan Chapnick - Artificial Turf Webinar.pdf



**For the best experience, open this PDF portfolio in
Acrobat X or Adobe Reader X, or later.**

[Get Adobe Reader Now!](#)



Town of Arlington, Massachusetts

Enforcement Order Ratification: 335 Mystic Street.

Summary:

Enforcement Order Ratification: 335 Mystic Street.

ATTACHMENTS:

	Type	File Name	Description
▢	Reference Material	335_Mystic_Street_Enforcement_Order.pdf	335 Mystic Street Enforcement Order.pdf



Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands
WPA Form 9 – Enforcement Order
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

DEP File Number: _____

A. Violation Information

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



This Enforcement Order is issued by:

Arlington
 Conservation Commission (Issuing Authority)

09/18/2024
 Date

To:

Louise Piazza
 Name of Violator
335 Mystic Street
 Address

1. Location of Violation:

Property Owner (if different)
335 Mystic Street
 Street Address
Arlington
 City/Town
70-3
 Assessors Map/Plat Number

02474
 Zip Code
1F
 Parcel/Lot Number

2. Extent and Type of Activity (if more space is required, please attach a separate sheet):

Clearcutting of ±8,300 square feet of Floodplain, Buffer Zone, and Adjacent Upland Resource Area associated with Lower Mystic Lake

B. Findings

The Issuing Authority has determined that the activity described above is in a resource area and/or buffer zone and is in violation of the Wetlands Protection Act (M.G.L. c. 131, § 40) and its Regulations (310 CMR 10.00), because:

the activity has been/is being conducted in an area subject to protection under c. 131, § 40 or the buffer zone without approval from the issuing authority (i.e., a valid Order of Conditions or Negative Determination).



Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands
WPA Form 9 – Enforcement Order
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

DEP File Number: _____

B. Findings (cont.)

the activity has been/is being conducted in an area subject to protection under c. 131, § 40 or the buffer zone in violation of an issuing authority approval (i.e., valid Order of Conditions or Negative Determination of Applicability) issued to:

Name _____ Dated _____

File Number _____ Condition number(s) _____

The Order of Conditions expired on (date): _____ Date _____

The activity violates provisions of the Certificate of Compliance.

The activity is outside the areas subject to protection under MGL c.131 s.40 and the buffer zone, but has altered an area subject to MGL c.131 s.40.

Other (specify):

C. Order

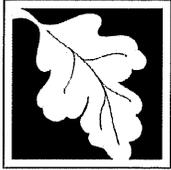
The issuing authority hereby orders the following (check all that apply):

- The property owner, his agents, permittees, and all others shall immediately cease and desist from any activity affecting the Buffer Zone and/or resource areas.
- Resource area alterations resulting from said activity shall be corrected and the resource areas returned to their original condition.
- A restoration plan shall be filed with the issuing authority on or before 10/09/2024
Date

for the following:

Restoration planting and maintenance plan

The restoration shall be completed in accordance with the conditions and timetable established by the issuing authority.



Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands
WPA Form 9 – Enforcement Order
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

DEP File Number: _____

C. Order (cont.)

Complete the attached Notice of Intent (NOI). The NOI shall be filed with the Issuing Authority on or before:

_____ Date

for the following:

No further work shall be performed until a public hearing has been held and an Order of Conditions has been issued to regulate said work.

The property owner shall take the following action (e.g., erosion/sedimentation controls) to prevent further violations of the Act:

Install a 12" biodegradable mulch sock for erosion control at the low point of the site along the bank of Lower Mystic Lake. Ensure the sock is maintained and in good condition through April 2025.

Property owner shall attend the October 17, 2024 meeting of the Conservation Commission for further discussion.

Failure to comply with this Order may constitute grounds for additional legal action. Massachusetts General Laws Chapter 131, Section 40 provides: "Whoever violates any provision of this section (a) shall be punished by a fine of not more than twenty-five thousand dollars or by imprisonment for not more than two years, or both, such fine and imprisonment; or (b) shall be subject to a civil penalty not to exceed twenty-five thousand dollars for each violation". Each day or portion thereof of continuing violation shall constitute a separate offense.

D. Appeals/Signatures

An Enforcement Order issued by a Conservation Commission cannot be appealed to the Department of Environmental Protection, but may be filed in Superior Court.

Questions regarding this Enforcement Order should be directed to:

David Morgan

Name

781.316.3012

Phone Number

M/T/W 8 AM - 4 PM, Th 8 AM - 7 PM, F 8 AM - 12 PM

Hours/Days Available

Issued by:

Arlington

Conservation Commission

Conservation Commission signatures required on following page.



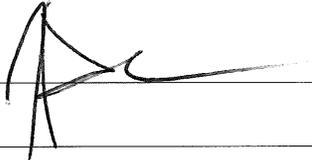
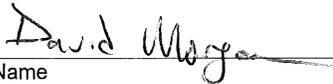
Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands
WPA Form 9 – Enforcement Order
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

DEP File Number: _____

D. Appeals/Signatures (cont.)

In a situation regarding immediate action, an Enforcement Order may be signed by a single member or agent of the Commission and ratified by majority of the members at the next scheduled meeting of the Commission.

Signatures:

Signature		Printed Name	
Signature	_____	Printed Name	_____
Signature	_____	Printed Name	_____
Signature	_____	Printed Name	_____
Signature	_____	Printed Name	_____
Signature	_____	Printed Name	_____
Signature	_____	Printed Name	_____
Signature	_____	Printed Name	_____

Signature of delivery person or certified mail number



Town of Arlington, Massachusetts

Enforcement Order Ratification: 40 Park Avenue/1293-1305 Massachusetts Avenue.

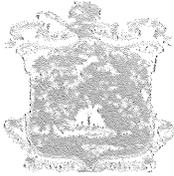
Summary:

Enforcement Order Ratification: 40 Park Avenue/1293-1305 Massachusetts Avenue.

- The Commission is expected to continue discussion of this matter to the meeting of November 7, 2024.

ATTACHMENTS:

Type	File Name	Description
▢ Reference Material	40_Park_Ave_(incl_1293-1305_Mass_Ave)_Enforcement_Order.pdf	40 Park Ave (incl 1293-1305 Mass Ave) Enforcement Order.pdf
▢ Reference Material	40_Park_Ave_Letter_Requesting_Continuation_10.04.24.pdf	40 Park Ave Letter Requesting Continuation 10.04.24.pdf
▢ Reference Material	40_Park_Ave_Site_Visit_Notes_10.04.24.pdf	40 Park Ave Site Visit Notes 10.04.24.pdf



TOWN OF ARLINGTON
MASSACHUSETTS
CONSERVATION COMMISSION

September 17, 2024

BY CERTIFIED AND REGULAR MAIL

40 Park Avenue Associates, LLC
792 Massachusetts Avenue, Floor 2
Arlington, MA 02476

RE: Wetland Violations at: 40 Park Avenue

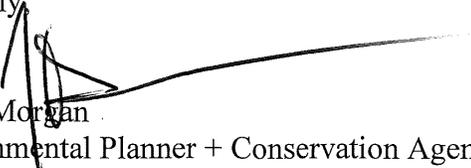
The Arlington Conservation Commission has been presented with facts that may lead to the conclusion that you have violated the Wetlands Protection Act, GL c. 131, § 40, and the Arlington Bylaw for Wetland Protection, Title V, Article 8. These facts were confirmed on a site visit made on September 17, 2024, and include those activities described in the enclosed Enforcement Order. Photographs of the site evidencing the same facts are enclosed.

This letter and the enclosed Enforcement Order serve to instruct you to immediately cease and desist from any and all further activity, and appear before the Conservation Commission at its Thursday, October 17, 2024, meeting, 7:00 PM. The meeting will be conducted remotely using Zoom. Registration details and instructions on how to join the meeting can be found on the Conservation Commission page of ArlingtonMA.gov. Please be prepared to explain the work that has been conducted so far, and your plans for the property so that the Commission can determine the appropriate corrective actions for you to come into compliance with the Act and Bylaw. Please be advised, the Conservation Commission reserves the right to assess fines for said violations or non-compliance with this letter and Enforcement Order pursuant to the Wetlands Protection Act, GL c. 131, § 40, and the Arlington Bylaw for Wetland Protection, Title V, Article 8.

Should you have any question or need further information, do not hesitate to contact me in the Planning Department at 781.316.3012.

Thank you for your immediate time and attention in this matter.

Sincerely,


David Morgan
Environmental Planner + Conservation Agent

Enclosure

cc: Mass. DEP, NERO – Wetlands Division
File



Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands
WPA Form 9 – Enforcement Order
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

DEP File Number: _____

A. Violation Information

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



This Enforcement Order is issued by:

Arlington 09/17/2024
 Conservation Commission (Issuing Authority) Date

To:

40 Park Avenue Associates
 Name of Violator
792 Massachusetts Avenue, Floor 2
 Address

1. Location of Violation:

Property Owner (if different)
40 Park Avenue
 Street Address
Arlington 02476
 City/Town Zip Code
59-1 10B
 Assessors Map/Plat Number Parcel/Lot Number

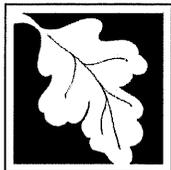
2. Extent and Type of Activity (if more space is required, please attach a separate sheet):

Clearcutting of ±3,100 square feet of Floodway, Riverfront Area, Buffer Zone, and Adjacent Upland Resource Area, removal of ±77 trees (some multistemmed), illicit drainage to Mill Brook

B. Findings

The Issuing Authority has determined that the activity described above is in a resource area and/or buffer zone and is in violation of the Wetlands Protection Act (M.G.L. c. 131, § 40) and its Regulations (310 CMR 10.00), because:

the activity has been/is being conducted in an area subject to protection under c. 131, § 40 or the buffer zone without approval from the issuing authority (i.e., a valid Order of Conditions or Negative Determination).



Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands
WPA Form 9 – Enforcement Order
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

DEP File Number: _____

B. Findings (cont.)

the activity has been/is being conducted in an area subject to protection under c. 131, § 40 or the buffer zone in violation of an issuing authority approval (i.e., valid Order of Conditions or Negative Determination of Applicability) issued to:

Name _____ Dated _____

File Number _____ Condition number(s) _____

The Order of Conditions expired on (date): _____ Date _____

The activity violates provisions of the Certificate of Compliance.

The activity is outside the areas subject to protection under MGL c.131 s.40 and the buffer zone, but has altered an area subject to MGL c.131 s.40.

Other (specify):

C. Order

The issuing authority hereby orders the following (check all that apply):

- The property owner, his agents, permittees, and all others shall immediately cease and desist from any activity affecting the Buffer Zone and/or resource areas.
- Resource area alterations resulting from said activity shall be corrected and the resource areas returned to their original condition.
- A restoration plan shall be filed with the issuing authority on or before 10/09/2024
Date

for the following:

Restoration planting and maintenance plan _____

The restoration shall be completed in accordance with the conditions and timetable established by the issuing authority.



C. Order (cont.)

Complete the attached Notice of Intent (NOI). The NOI shall be filed with the Issuing Authority on or before:

_____ Date

for the following:

No further work shall be performed until a public hearing has been held and an Order of Conditions has been issued to regulate said work.

The property owner shall take the following action (e.g., erosion/sedimentation controls) to prevent further violations of the Act:

Install a 12" biodegradable mulch sock for erosion control at the low point of the site along the bank of Mill Brook. Ensure the sock is maintained and in good condition through April 2025.

Property owner shall attend the October 17, 2024 meeting of the Conservation Commission for further discussion.

Failure to comply with this Order may constitute grounds for additional legal action. Massachusetts General Laws Chapter 131, Section 40 provides: "Whoever violates any provision of this section (a) shall be punished by a fine of not more than twenty-five thousand dollars or by imprisonment for not more than two years, or both, such fine and imprisonment; or (b) shall be subject to a civil penalty not to exceed twenty-five thousand dollars for each violation". Each day or portion thereof of continuing violation shall constitute a separate offense.

D. Appeals/Signatures

An Enforcement Order issued by a Conservation Commission cannot be appealed to the Department of Environmental Protection, but may be filed in Superior Court.

Questions regarding this Enforcement Order should be directed to:

David Morgan

Name

781.316.3012

Phone Number

M/T/W 8 AM - 4 PM, Th 8 AM - 7 PM, F 8 AM - 12 PM

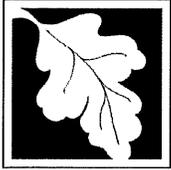
Hours/Days Available

Issued by:

Arlington

Conservation Commission

Conservation Commission signatures required on following page.



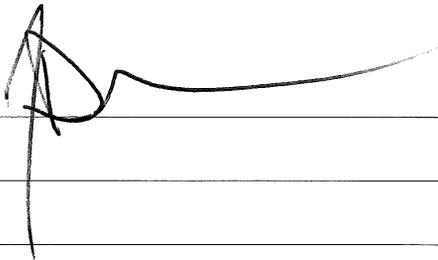
Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands
WPA Form 9 – Enforcement Order
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

DEP File Number: _____

D. Appeals/Signatures (cont.)

In a situation regarding immediate action, an Enforcement Order may be signed by a single member or agent of the Commission and ratified by majority of the members at the next scheduled meeting of the Commission.

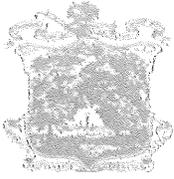
Signatures:

Signature 

Signature _____


Printed Name _____
Printed Name _____

Signature of delivery person or certified mail number



TOWN OF ARLINGTON
MASSACHUSETTS
CONSERVATION COMMISSION

September 17, 2024

BY CERTIFIED AND REGULAR MAIL

P&D REALTY
C/O PHANEUF 109 REFLECTION DR
SANDWICH, MA 02563

RE: Wetland Violations at: 40 Park Avenue

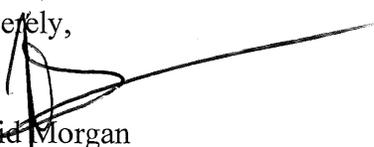
The Arlington Conservation Commission has been presented with facts that may lead to the conclusion that you have violated the Wetlands Protection Act, GL c. 131, § 40, and the Arlington Bylaw for Wetland Protection, Title V, Article 8. These facts were confirmed on a site visit made on September 17, 2024, and include those activities described in the enclosed Enforcement Order. Photographs of the site evidencing the same facts are enclosed.

This letter and the enclosed Enforcement Order serve to instruct you to immediately cease and desist from any and all further activity, and appear before the Conservation Commission at its Thursday, October 17, 2024, meeting, 7:00 PM. The meeting will be conducted remotely using Zoom. Registration details and instructions on how to join the meeting can be found on the Conservation Commission page of ArlingtonMA.gov. Please be prepared to explain the work that has been conducted so far, and your plans for the property so that the Commission can determine the appropriate corrective actions for you to come into compliance with the Act and Bylaw. Please be advised, the Conservation Commission reserves the right to assess fines for said violations or non-compliance with this letter and Enforcement Order pursuant to the Wetlands Protection Act, GL c. 131, § 40, and the Arlington Bylaw for Wetland Protection, Title V, Article 8.

Should you have any question or need further information, do not hesitate to contact me in the Planning Department at 781.316.3012.

Thank you for your immediate time and attention in this matter.

Sincerely,


David Morgan
Environmental Planner + Conservation Agent

Enclosure

cc: Mass. DEP, NERO – Wetlands Division
File



A. Violation Information

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



This Enforcement Order is issued by:

Arlington 09/17/2024
 Conservation Commission (Issuing Authority) Date

To:

P&D Realty
 Name of Violator
C/O PHANEUF 109 REFLECTION DR SANDWICH,MA 02563
 Address

1. Location of Violation:

Property Owner (if different)
1293--1305 MASS AVE
 Street Address
Arlington 02476
 City/Town Zip Code
59-1 1D
 Assessors Map/Plat Number Parcel/Lot Number

2. Extent and Type of Activity (if more space is required, please attach a separate sheet):

Clearcutting of ±3,100 square feet of Floodway, Riverfront Area, Buffer Zone, and Adjacent Upland Resource Area, removal of ±77 trees (some multistemmed), illicit drainage to Mill Brook

B. Findings

The Issuing Authority has determined that the activity described above is in a resource area and/or buffer zone and is in violation of the Wetlands Protection Act (M.G.L. c. 131, § 40) and its Regulations (310 CMR 10.00), because:

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Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands
WPA Form 9 – Enforcement Order
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

DEP File Number: _____

B. Findings (cont.)

the activity has been/is being conducted in an area subject to protection under c. 131, § 40 or the buffer zone in violation of an issuing authority approval (i.e., valid Order of Conditions or Negative Determination of Applicability) issued to:

Name _____ Dated _____

File Number _____ Condition number(s) _____

The Order of Conditions expired on (date): _____ Date _____

The activity violates provisions of the Certificate of Compliance.

The activity is outside the areas subject to protection under MGL c.131 s.40 and the buffer zone, but has altered an area subject to MGL c.131 s.40.

Other (specify):

C. Order

The issuing authority hereby orders the following (check all that apply):

- The property owner, his agents, permittees, and all others shall immediately cease and desist from any activity affecting the Buffer Zone and/or resource areas.
- Resource area alterations resulting from said activity shall be corrected and the resource areas returned to their original condition.
- A restoration plan shall be filed with the issuing authority on or before 10/09/2024
Date

for the following:

Restoration planting and maintenance plan

The restoration shall be completed in accordance with the conditions and timetable established by the issuing authority.



C. Order (cont.)

Complete the attached Notice of Intent (NOI). The NOI shall be filed with the Issuing Authority on or before:

_____ Date

for the following:

No further work shall be performed until a public hearing has been held and an Order of Conditions has been issued to regulate said work.

The property owner shall take the following action (e.g., erosion/sedimentation controls) to prevent further violations of the Act:

Install a 12" biodegradable mulch sock for erosion control at the low point of the site along the bank of Mill Brook. Ensure the sock is maintained and in good condition through April 2025.

Property owner shall attend the October 17, 2024 meeting of the Conservation Commission for further discussion.

Failure to comply with this Order may constitute grounds for additional legal action. Massachusetts General Laws Chapter 131, Section 40 provides: "Whoever violates any provision of this section (a) shall be punished by a fine of not more than twenty-five thousand dollars or by imprisonment for not more than two years, or both, such fine and imprisonment; or (b) shall be subject to a civil penalty not to exceed twenty-five thousand dollars for each violation". Each day or portion thereof of continuing violation shall constitute a separate offense.

D. Appeals/Signatures

An Enforcement Order issued by a Conservation Commission cannot be appealed to the Department of Environmental Protection, but may be filed in Superior Court.

Questions regarding this Enforcement Order should be directed to:

David Morgan

Name

781.316.3012

Phone Number

M/T/W 8 AM - 4 PM, Th 8 AM - 7 PM, F 8 AM - 12 PM

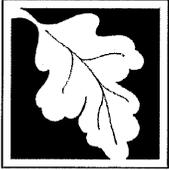
Hours/Days Available

Issued by:

Arlington

Conservation Commission

Conservation Commission signatures required on following page.



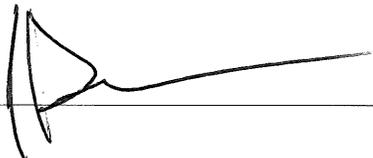
Massachusetts Department of Environmental Protection
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 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

DEP File Number: _____

D. Appeals/Signatures (cont.)

In a situation regarding immediate action, an Enforcement Order may be signed by a single member or agent of the Commission and ratified by majority of the members at the next scheduled meeting of the Commission.

Signatures:

Signature		Printed Name	
Signature		Printed Name	

 Signature of delivery person or certified mail number

October 4, 2024

Town of Arlington

Attn: David Morgan

Environmental Planner and Conservation Agent

730 Massachusetts Avenue

Arlington, MA 02476

RE: Wetland Violation at: 40 Park Avenue Restoration Plan

Dear Mr. Morgan,

Part C of the enforcement order requires a restoration plan be filed by 10/9/2024.

We plan to install the 12" biodegradable mulch sock for erosion control at 40 Park Avenue along the bank of the Mill Brook.

We would like to meet with the environmental planner to determine if future proposals by the owner are acceptable to the Conservation Commission.

Lastly, we would like to request a rescheduling of the zoom meeting with the Conservation Commission that is scheduled for Thursday, October 17th, 2024 to the week of November 18th, 2024. The reason for the request is the owner Henry Davidson Jr will be in Southeast Asia.

Any questions please contact Carter Knight of Davidson Management Company at 781-643-5335.

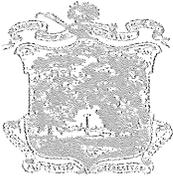
Regards,

A handwritten signature in black ink, appearing to be 'Carter Knight', written over a white background.

Carter Knight

Manager

Davidson Management Company



TOWN OF ARLINGTON

MASSACHUSETTS

CONSERVATION COMMISSION

SITE VISIT SUMMARY

This document serves as a legal notice of the Arlington Conservation Commission's findings on a recent site visit. Questions concerning this notice should be directed to the Arlington Conservation Commission, telephone 781-316-3012

A. Location of Site Visit: 40 Park Ave

B. Attendees Present: Ed Davidson, Carter Knight

C. Date of Site Visit: 10-04-24

D. Reason for Site Visit: Enforcement action

E. Findings: 12" mulch socks installed on bank

Reviewed proposed plans, incl.

• Knotweed removal

• Contaminant mitigation

• Changing grade, adding rip rap, pervious pavement next to building

- F. Required Actions: [] Cease immediately all work on the property
[] Call the office to discuss the matter by
[x] Attend the 11/14/24 meeting of the Conservation Commission to discuss the matter. Call the office for details.
[] No action required

G. Follow-up Site Visit: None

A representative from the Arlington Conservation Commission will conduct a follow-up site visit to ensure continued compliance on or after the date listed above unless you call the office at 781-316-3012 to schedule a specific date and time for the site visit. Please feel free to call the office to discuss the matter.

H. Issuing Agent of the Commission

Signature: [Signature] Date: 10-07-24

Printed name: David Morgan, Environmental Planner + Conservation Agent



Town of Arlington, Massachusetts

Request for Determination of Applicability: 37 Beverly Road.

Summary:

Request for Determination of Applicability: 37 Beverly Road.

The Arlington Conservation Commission will hold a public hearing to consider a Request for Determination of Applicability under the Wetlands Protection Act (WPA) and Arlington Bylaw for Wetlands Protection for installation of a dock at 37 Beverly Road.

ATTACHMENTS:

	Type	File Name	Description
▢	Reference Material	37_Beverly_Road_Dock_RDA.pdf	37 Beverly Road Dock RDA.pdf



Massachusetts Department of Environmental Protection
Bureau of Water Resources - Wetlands

WPA Form 1- Request for Determination of Applicability

Arlington
Municipality

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:

Eric Weyl
First Name Last Name

37 Beverly Rd
Address

Arlington MA 02474
City/Town State Zip Code

(617) 599-8919 glenweyl@gmail.com
Phone Number Email Address

2. Property Owner (if different from Applicant):

First Name Last Name

Address

City/Town State Zip Code

Phone Number Email Address (if known)

3. Representative (if any)

First Name Last Name

Company Name

Address

City/Town State Zip Code

Phone Number Email Address (if known)

B. Project Description

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

37 Beverly Rd Arlington
Street Address City/Town

42.42382 -71.14886
Latitude (Decimal Degrees Format with 5 digits after decimal e.g. XX.XXXXX) Longitude (Decimal Degrees Format with 5 digits after decimal e.g. -XX.XXXXX)

37 071.0-0002-0011.A
Assessors' Map Number Assessors' Lot/Parcel Number

[How to find Latitude and Longitude](#)

[and how to convert to decimal degrees](#)

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

Single-family home on a slope from the Lower Mystic Lake up to Beverly Rd.

c. Plan and/or Map Reference(s): (use additional paper if necessary)

Title Date

Title Date



Massachusetts Department of Environmental Protection
Bureau of Water Resources - Wetlands

WPA Form 1- Request for Determination of Applicability Arlington
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40 Municipality

B. Project Description (cont.)

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

The construction of a floating but fixed dock attached to the existing grandfathered lakefront wood platform. Project would consist of a 10 foot long by 16 foot wide floating platform supported by two thin stilts attaching to the lake floor and would have a short ladder attached for entering the lake, as well as a 10 foot gangplank attached to the existing platform and to the floating dock. Diagrams and descriptions in detail are attached.

- 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).
-

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 Water Resources - Wetlands

WPA Form 1- Request for Determination of Applicability Arlington
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40 Municipality

C. Determinations

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

- a. whether the **area** depicted on plan(s) and/or map(s) referenced above 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 above are accurately delineated.
- c. whether the **Activities** depicted on plan(s) referenced above is subject to the Wetlands Protection Act and its regulations.
- d. whether the area and/or Activities depicted on plan(s) referenced above is subject to the jurisdiction of any **municipal wetlands' ordinance** or **bylaw** of:

Name of Municipality

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

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.

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.

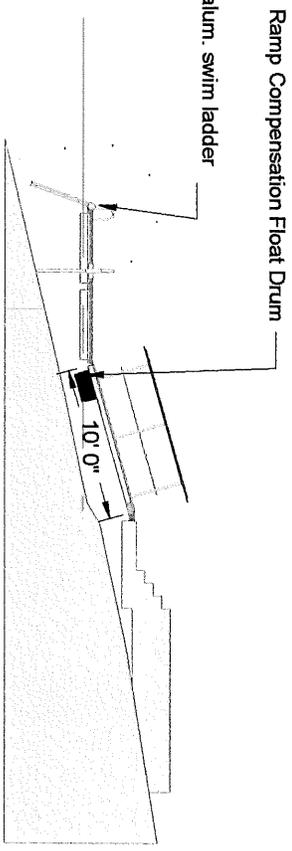
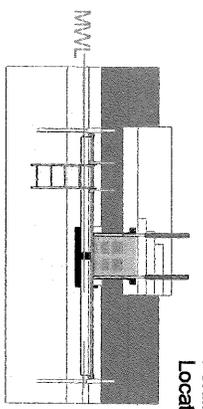
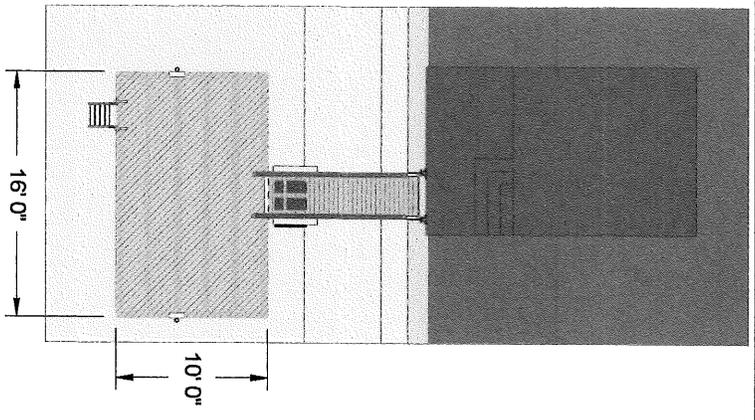
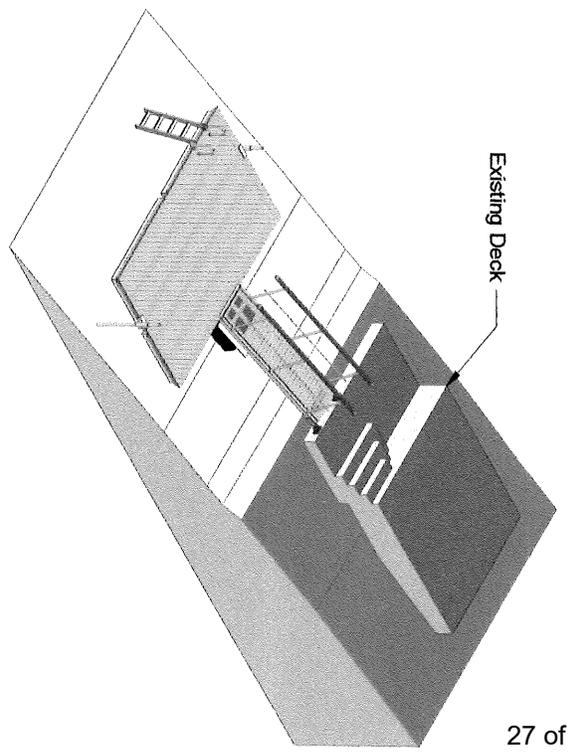
E. Edwards
Signature of Applicant

9/13/2024
Date

Signature of Representative (if any)

Date

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED



Custom Float Services 11 Wallace Ave. South Portland ME 04106		DRAWN Henri Gignoux	DATE 8/2/2024	Alisha Holland 37 Beverly Rd. Arlington MA	
		CHECKED QA		3' x 10' Ramp & 10' x 16' Accudock Float Overview	
		MFG APPROVED		SIZE A	FSCM NO.
				SCALE 1:1	DWG NO.
				SHEET 1 OF 1	REV



Date: 8/2/2024

Alisha Holland
37 Beverly Rd.
Arlington MA 02474

achollan@gmail.com
617-599-8930 (m)

Float Proposal

Site Location: 37 Beverly Rd. Arlington MA 02474

Scope of Work

Custom Float Services (CFS) will provide all the tools, materials, and labor to supply, deliver and install a 10' x 16' mahogany decked Accudock modular float system with a 3' x 10' aluminum access ramp with mahogany decking and handrails:

Project Description

Accudock Float Modules: (4) 5' x 8' Accudock float modules, and all necessary hardware to form a 10' x 16' float. The float will have an unloaded freeboard of 6" and a reserve buoyancy of 30 lbs/sq ft. (2) 2" SCHD 40 galv. pipe piles will moor the float to the lake bottom. The float will have a 4/4" x 4" mahogany deck laid on the bias with a hidden fastener system.

3' x 10' Access Ramp: A 3' x 10' aluminum framed rap will connect the existing shoreside deck to the float. The ramp has a uniform load rating of 50 PSF and meets all relevant OSHA standards. The decking and handrails are 4/4" x 4" mahogany. The ramp will connect to the existing deck frame with standard 4-hole mounts through bolted to the face frame and to the float with an aluminum piano hinge style mount.

Float moorings: The float is held in place with the access ramp and (2) 2" galv. pipe piles driven to refusal in the soils by hand.

Fasteners: All fasteners used in the ramp and floats are stainless steel.

Utilities: No utilities, water, or electrical power, are included in this quote.

Delivery

CFS to supply, deliver and install system in Arlington MA

Pricing

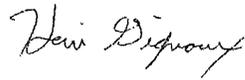
The pricing below is based on present component pricing. After permits are granted, the quote will be updated to reflect any additional requirement of the permits and any changes of pricing for the materials.

<u>Description</u>	<u>Amount</u>
Permitting	TBD
Accudock Float with mahogany decking	\$ 11,610.00
Access Ramp with mahogany decking & rails	\$ 5,730.00
Delivery	\$ 500.00
Installation	\$ 2,250.00
Total	\$ 20,090.00

All applicable taxes included.

Please call with any questions.

Thank you,



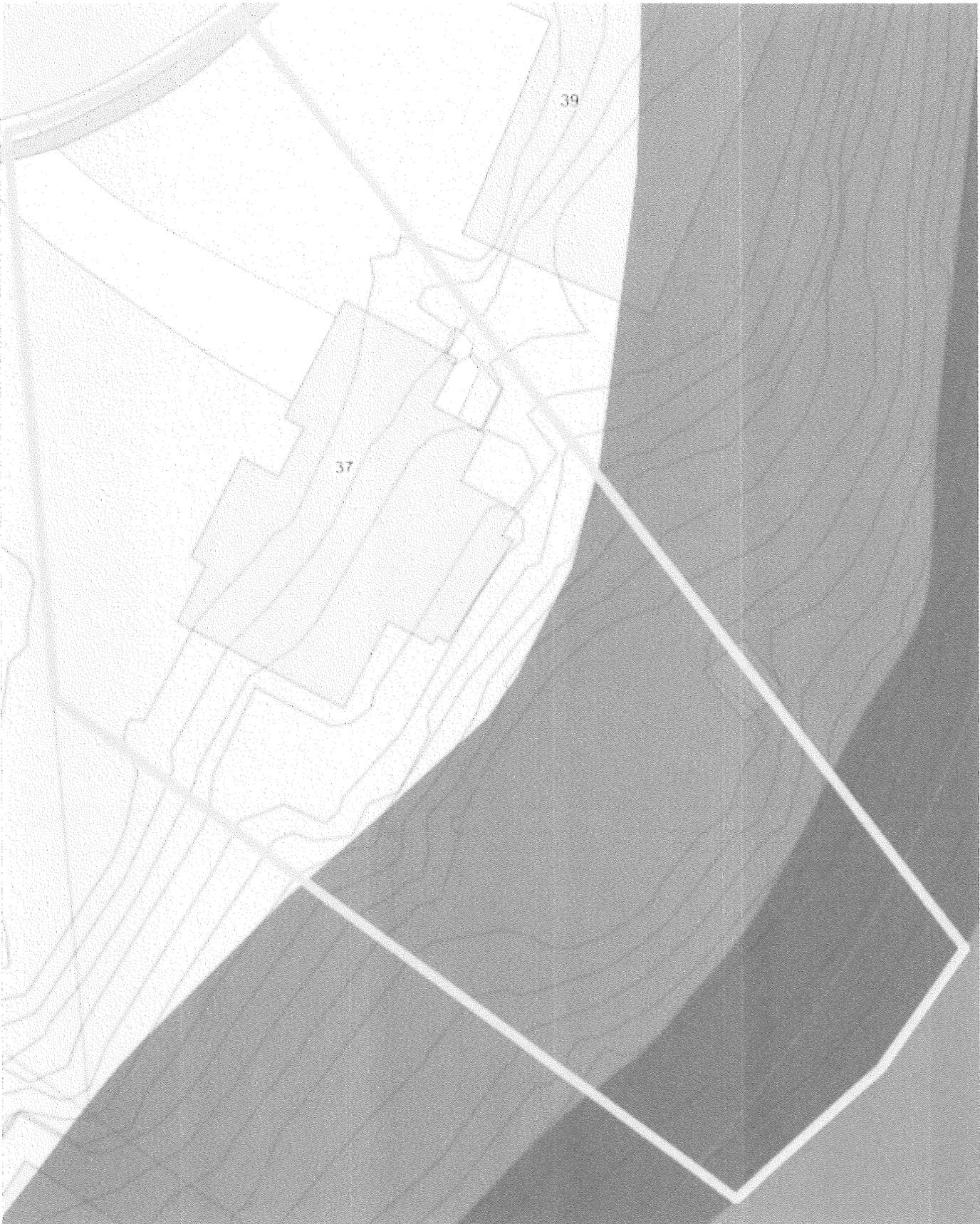
Henri Gignoux

8/2/2024

Date

Accepted by:

_____ Date





CERTIFIED ABUTTERS LIST

Date: September 16, 2024

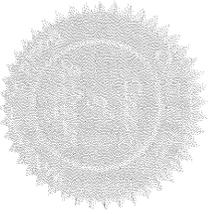
Subject Property Location: 37 BEVERLY RD Arlington, MA

Subject Parcel ID: 71-2-11.A

Search Distance: 100 Feet

Parcel ID	Property Location	Owner 1	Owner 2	Mailing Address	City/Town	State	Zip
69-1-13	50 FAIRVIEW AVE	CHUNIAS JENNIFER L/ TRUSTEE	JENNIER L CHUNIAS 2023 TRUST	50 FAIRVIEW AVE	ARLINGTON	MA	02474
69-1-14	52 FAIRVIEW AVE	DEEMYS GEORGE A/ TRUSTEE	GEORGE A DEEMYS 2006 REVOCABLE	52 FAIRVIEW AVE	ARLINGTON	MA	02474
71-1-9	34 BEVERLY RD	BAUER KONRAD WALTER		34 BEVERLY RD	ARLINGTON	MA	02474
71-1-10	38 BEVERLY RD	KHOSIA RAGAV/ TRUSTEE	REGAV KHOSIA REVOCABLE TRUST	38 BEVERLY RD	ARLINGTON	MA	02474
71-2-9	31 BEVERLY RD	SIMONEAU MARIA R		14 MARION AVE	NORWOOD	MA	02062
71-2-10	35 BEVERLY RD	SCHNELLDORFER THOMAS		35 BEVERLY Rd	ARLINGTON	MA	02474
71-2-11.A	37 BEVERLY RD	WEYL ERIC GLEN	HOLLAND AISHA CAROLINE	37 BEVERLY RD	ARLINGTON	MA	02474
71-2-11.B	0-LOT BEVERLY RD	SCHNELLDORFER THOMAS		35 BEVERLY RD	ARLINGTON	MA	02474
71-2-12	39 BEVERLY RD	CHUNG HAEWON	YI HAE-YWON	39 BEVERLY RD	ARLINGTON	MA	02474
71-2-13	43 BEVERLY RD	SOLJACIC MARIN	PAPA MIHAELA SOLJACIC	43 BEVERLY RD	ARLINGTON	MA	02474

The Board of Assessors certifies the names and address of requested parties in interest, all abutters to subject parcel within 100 feet.



Town of Arlington

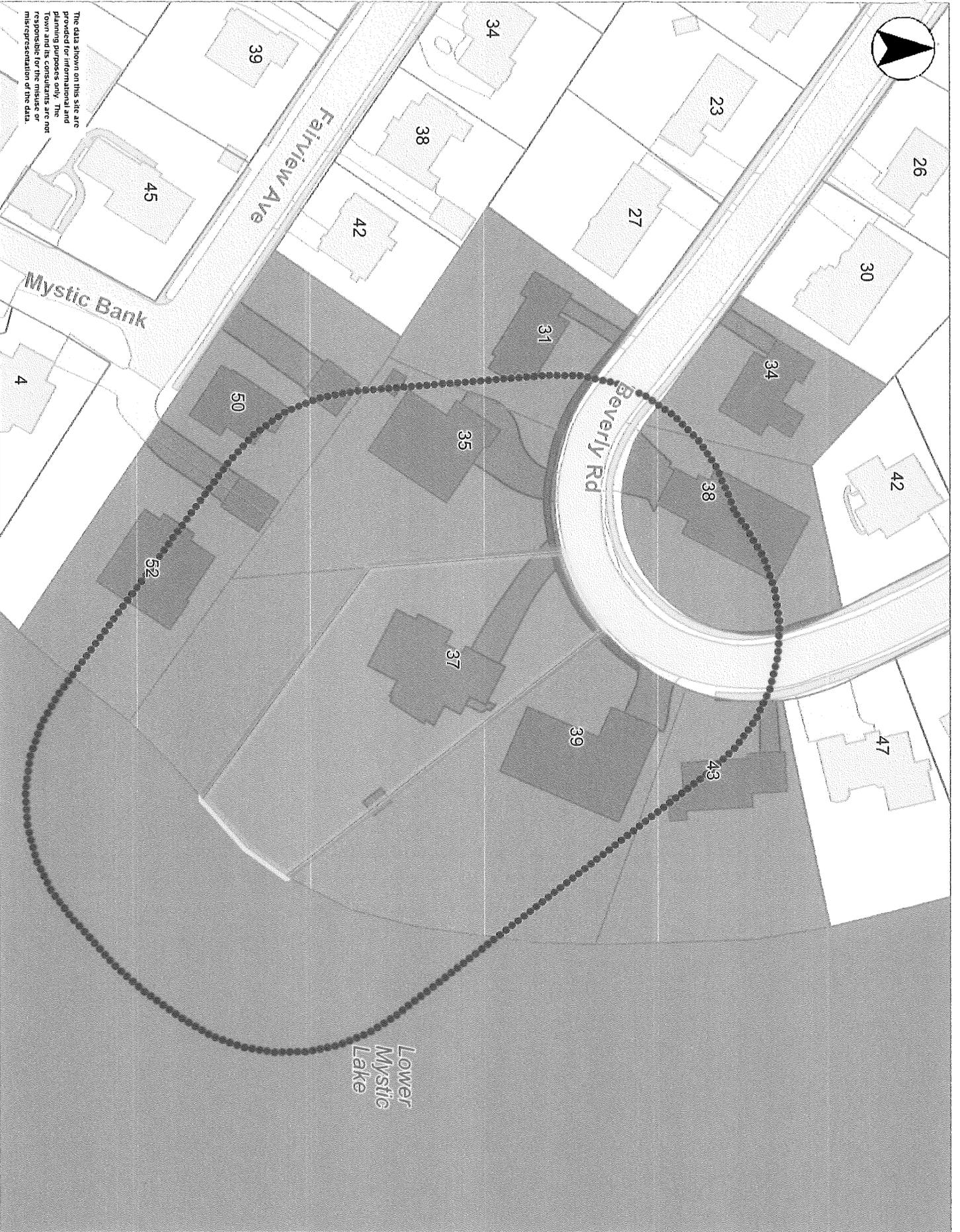
Office of the Board of Assessors

730 Massachusetts Ave

Arlington, MA 02476

phone: 781.316.3050

email: assessors@town.arlington.ma.us



The data shown on this site are provided for informational and planning purposes only. The Town and its consultants are not responsible for the misuse or misrepresentation of the data.



Printed on 09/16/2024 at 08:32 AM



- Places of Category
 - Police Station
 - Fire Station
 - School
 - Public Works
 - Recreation - Facilities
 - Recreation - Fields Courts
 - Recreation - Fields Courts
 - Open Space - Conservation
 - Open Space - Minuteman
 - Open Space - Labels
 - Open Space
 - Town, State, or Private
 - Other Town Owned
 - MA Highways
 - Interstate
 - US Highway
 - N-Town Routes
 - Abutting Towns
 - Town Boundary
 - Parcels
 - Buildings
 - Cemeteries - Roads
 - Road1
 - Road2
 - Road3
 - Road4
 - Pavement Markings
 - Impervious Surface - For B
 - Street
 - Sidewalk
 - Street Island
 - Driveway
 - Parking Lot
 - Bike Path
 - Roads - For Large Scale (ft)
 - Roads - For Small Scale (ft)
 - Major Road
 - Local Road
 - Master Plan Base Map - M
 - Water Line
 - Water Body

BYLAW FILING FEES AND TRANSMITTAL FORM

Rules:

1. Fees are payable at the time of filing the application and are non-refundable.
2. Fees shall be calculated per schedule below.
3. Town, County, State, and Federal Projects are exempt from fees.
4. These fees are in addition to the fees paid under M.G.L. Ch. 131, s.40 (ACT).

Fee Schedule (ACC approved 1/8/15):

\$	No./Area	Category
150	1	(R1) RDA- \$150 local fee, no state fee
		(N1) Minor Project - \$200 (house addition, tennis court, swimming pool, utility work, work in/on/or affecting any body of water, wetland or floodplain).
		(N2) Single Family Dwelling - \$600
		(N3) Multiple Dwelling Structures - \$600 + \$100 per unit all or part of which lies within 100 feet of wetlands or within land subject to flooding.
		(N4) Commercial, Industrial, and Institutional Projects - \$800 + 50¢/s.f. wetland disturbed; 2¢/s.f. land subject to flooding or buffer zone disturbed.
		(N5) Subdivisions - \$600 + \$4/l.f. feet of roadway sideline within 100 ft. of wetlands or within land subject to flooding.
		(N6) Other Fees - copies, printouts; per public records law
		(N7) Minor Project Change - \$50
		(N8) Work on Docks, Piers, Revetments, Dikes, etc - \$4 per linear foot
		(N9) Resource Boundary Delineation (ANRAD) - \$1 per linear foot
		(N10) Certificate of Compliance (COC or PCOC) - No charge if before expiration of Order, \$200 if after that date.
		(N11) Amendments - \$300 or 50% of original local filing fee, whichever is less.
		(N12) Extensions -
		a. Single family dwelling or minor project - \$100.
		b. Other - \$150.
		(N13) Consultant Fee -per estimate from consultant
<i>Subtotal</i>	\$150	
	+\$150	Legal Notice Charge
	TOTAL \$300	

Note: Submit this form along with the forms submitted for the ACT - the "Wetlands Filing Fee Calculations Worksheet," and the "Notice of Intent Fee Transmittal Form."

ABUTTER NOTIFICATION

Notification to Abutters Under the Massachusetts Wetlands Protection Act and Arlington Wetlands Protection Bylaw

In accordance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40, and the Arlington Wetlands Protection Bylaw, you are hereby notified of the following:

The Conservation Commission will hold a virtual public meeting using Zoom, on October 17 at 7:00 PM in accordance with the provisions of the Mass. Wetlands Protection Act (M.G.L. Ch. 131, s. 40, as amended), the Town of Arlington Bylaws Article 8, Bylaw for Wetland Protection, and in accordance with the Governor's Order Suspending Certain Provisions of the Open Meeting Law, G. L. c. 30A, § 20 relating to the COVID-19 emergency, for a Request for Determination of Applicability from E. Glen Weyl, for a floating dock at 37 Beverly Rd within 100 feet of a wetland, on Assessor's Property Map/s # 37, Lot/s # 071.0-0002-0011.A. Please refer to the Commission's online meeting agenda for specific Zoom meeting access information.

A copy of the application and accompanying plans are available by request by contacting the Arlington Conservation at 781-316-3012 or concomm@town.arlington.ma.us. For more information, call the applicant (617-599-8919), the Arlington Conservation Commission (781-316-3012), or the DEP Northeast Regional Office (978-694-3200).

NOTE: Notice of the Public Hearing will be published at least five (5) business days in advance in *The Arlington Advocate* and will also be posted at least 48 hours in advance in the Arlington Town Hall.

AFFIDAVIT OF SERVICE

I, E. Glen Weyl, being duly sworn, do hereby state as follows: on the 1st of October 2024, I mailed a "Notification to Abutters" in compliance with the second paragraph of Massachusetts General Laws, Chapter 131, s.40, the DEP Guide to Abutter Notification dated April 8, 1994, and the Arlington Wetlands Protection Bylaw, Title V, Article 8 of the Town of Arlington Bylaws in connection with the following matter:

The construction of a floating dock on the rear (lake-facing) side of 37 Beverly Rd in Arlington.

The form of the notification, and a list of the abutters to whom it was provided and their addresses, are attached to this Affidavit of Service.

Signed under the pains and penalties of perjury, this 1st of October, 2024



Name

Eric Glen Weyl



Town of Arlington, Massachusetts

Request for Determination of Applicability: Multiple Locations.

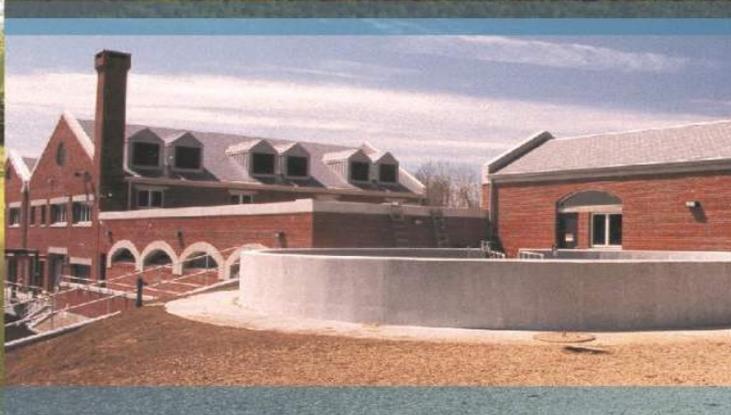
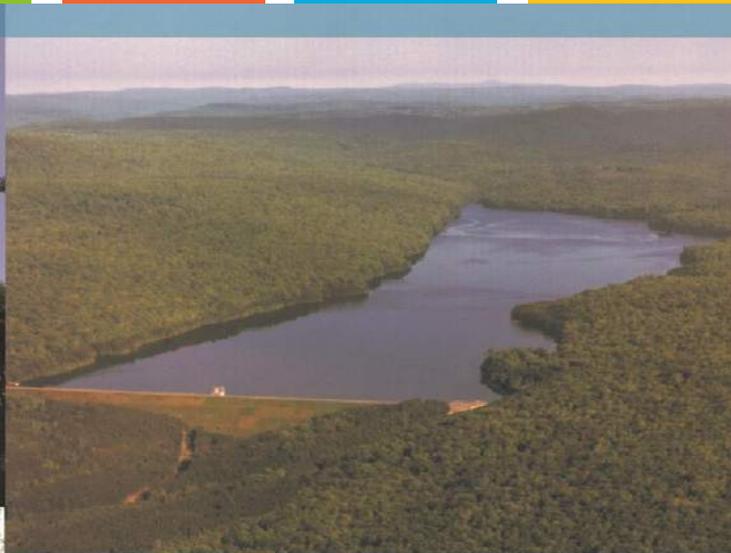
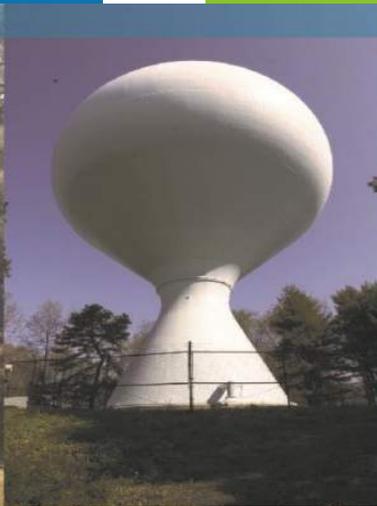
Summary:

Request for Determination of Applicability: Multiple Locations.

The Arlington Conservation Commission will hold a public hearing to consider a Request for Determination of Applicability under the Wetlands Protection Act (WPA) and Arlington Bylaw for Wetlands Protection for gas main replacements at North Union Street, Gordon Road, Wheaton Road, Patrick Street, and Purcell Road in Arlington.

ATTACHMENTS:

Type	File Name	Description
▢ Reference Material	Union_St_Arlington_RDA_signed.pdf	Union_St_Arlington_RDA_signed.pdf



Gas Main Replacement Project
Arlington, Massachusetts

REQUEST FOR DETERMINATION OF APPLICABILITY

Boston Gas Company

September 2024

Tighe & Bond

WO#1593766
N-5068-0331
September 17, 2024

Arlington Conservation Commission
730 Massachusetts Avenue Annex
Arlington, Massachusetts 02476

Re: **Request for Determination of Applicability
Gas Main Replacement Project
Boston Gas Company
North Union Street, Gordon Road, Wheaton Road, Patrick Street, and Purcell
Road (Arlington)**

Dear Members of the Commission:

On behalf of Boston Gas Company, Tighe & Bond respectfully submits this Request for Determination of Applicability (RDA) for gas main replacement activities within portions of North Union Street, Gordon Road, Wheaton Road, Patrick Street, and Purcell Road in Arlington, Massachusetts. The proposed project consists of the replacement of existing gas mains within these paved public roadways. A total of approximately 1,830 linear feet (lf) of replacement gas main is proposed in these five roadways. The location of the proposed maintenance work is shown on the Site Location Map (Figure 1) in Attachment B.

This RDA is being filed for work that is located within the limits of 100-year flooding associated with Alewife Brook. This area is subject to the Commission's jurisdiction under the Massachusetts Wetlands Protection Act (WPA, M.G.L. c. 131 § 40) as well as the Arlington Wetlands Protection Bylaw (Article 8) and their implementing regulations. All proposed work will occur within the existing paved roadways.

Please note that the gas service replacement work is considered exempt per 310 CMR 10.02(2)(a)(2) as it consists of "*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 the footprint of said structure or facility.*"

These exemption criteria are recognized under Section 1-A of the Arlington Regulations for Wetlands Protection, which state: "*Only those exemptions explicitly stated in the Act and state wetland regulations at 310 CMR 10.00 apply.*"

Tighe & Bond respectfully requests that the Arlington Conservation Commission issue a Negative Determination confirming that the proposed work does not require the filing of a Notice of Intent under the WPA or Article 8.

This RDA application includes the following items:

- Attachment A – WPA Form 1, Town of Arlington Fee Worksheet
- Attachment B – Figures
- Attachment C – Project Drawings (7/24/2024)
- Attachment D – Photographic Log



- Attachment E – National Grid Best Management Practice Details
- Attachment F – Abutter Information

The following text discusses the wetland resource areas, proposed activities, and proposed protective measures.

Wetland Resource Areas

A review of data available through Massachusetts Geographic Information System (MassGIS) indicates that a portion of the site is within Bordering Land Subject to Flooding (BLSF). Wetland resource areas are depicted on the attached Orthophotograph, provided as Figure 3 in Attachment B.

Bordering Land Subject to Flooding

The Federal Emergency Management Agency (FEMA) Flood Insurance Rate MAP (FIRM) No. 25017C0417E, effective June 4, 2010, was consulted to evaluate the presence of BLSF within the Project Site. According to the FIRM, a small portion of the Project Site on Gordon Road is within Zone AE, defined as an area of 1% annual chance of flooding. BLSF within the Project Site consists of paved surfaces of existing roadways and developed residential properties.

The proposed gas main replacement activity will result in temporary impacts to BLSF. However, as work areas will be backfilled and graded to pre-existing conditions, there will be no change in elevation or character of the area.

Rare Species

The Massachusetts Natural Heritage and Endangered Species Program (NHESP) Atlas (15th edition, effective August 2021) was reviewed during the preparation of this RDA. The Project Site does not fall within *Priority Habitats of Rare Species* or *Estimated Habitats of Rare Wildlife*, as shown on Figure 2 in Attachment B.

Proposed Activities

The proposed project consists of the installation of approximately 1,830 lf of gas main within existing roadways, as depicted on the Project Drawings in Attachment C. Table 1, below, describes the proposed work.

Street	Gas Main Maintenance (linear feet)	Maintenance	Work within BLSF
North Union Street, from 55 North Union Street to Decatur Street	1,245 lf	Replacement of 6-inch main with 8-inch, LP PL	No
Gordon Road from N. Union Street to end of Main	215 lf	Replacement of existing 3-inch gas main with 4-inch, LP PL	Yes



TABLE 1 Summary of Gas Main Replacements			
Street	Gas Main Maintenance (linear feet)	Maintenance	Work within BLSF
Wheaton Road from N. Union Street to 7 Wheaton Road	30 lf	Replacement of existing 6-inch gas main with 8-inch, LP PL	No
Patrick Street from N. Union Street to 7 Patrick Road	150 lf	Replacement of existing 4-inch gas main with 6-inch, LP PL	No
Purcell Road from N. Union Street to 9 Purcell Road	190 lf	Replacement of existing 4-inch gas main with 6-inch, LP PL	No

The proposed gas main replacement work will require the excavation of approximately two-foot-wide trenches for installation. The trench bottoms will be excavated and graded so that the pipes will be supported for their entire lengths on undisturbed bottom at a depth of approximately three feet below surface grade. Upon the completion of work, the trenches will be backfilled, and the site will be restored to pre-existing grades. The existing gas mains will be purged and abandoned in place. Refer to the Project Drawings in Attachment C for additional details.

The areas where the work is proposed consist of existing paved roadways. The proposed work will not change the general characteristics of the area including grades, as the entire project is limited to previously developed and disturbed areas.

Protective Measures

Work will be conducted in accordance with National Grid’s EG-303NE Best Management Practices document. Please refer to Attachment E for further details. During the gas line construction, erosion control measures (*e.g.*, straw bales, silt fence, straw wattles, catch basin silt sack inserts) will be installed as deemed necessary.

Application Requirements

Abutters within 100 feet of the Project Site have been notified in accordance with Section 8 of the Arlington Regulations for Wetlands Protection. The abutter notification form, certified list of abutters, and affidavit of service are provided in Attachment F.

Summary

We look forward to having the opportunity to discuss this project with the Arlington Conservation Commission at the next scheduled public hearing on September 19, 2024. We anticipate these materials are sufficient for the Commission to issue a Negative Determination confirming the proposed project may proceed without the filing of an NOI.



Should you have any questions regarding this application or require any additional information, please do not hesitate to contact me at (413) 572-3224 or via email at MPCoady@tighebond.com. Thank you in advance for your attention to this matter.

Respectfully,

TIGHE & BOND, INC.



Melissa P. Coady
Senior Project Manager

Enclosures

Copy: MassDEP Northeast Regional Office - Division of Wetlands and Waterways
Jaime Walker, National Grid

ATTACHMENT A



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

Arlington

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:

Boston Gas Company (c/o Jaime Walker)

Jaime.Walker@nationalgrid.com

Name

E-Mail Address

170 Data Drive

Mailing Address

Waltham

MA

02451

City/Town

State

Zip Code

(978) 551-1156

Phone Number

Fax Number (if applicable)

2. Representative (if any):

Tighe & Bond, Inc.

Firm

Melissa Coady

MPCoady@tighebond.com

Contact Name

E-Mail Address

53 Southampton Road

Mailing Address

Westfield

MA

01085

City/Town

State

Zip Code

(413) 572-3224

Phone Number

Fax Number (if applicable)

B. Determinations

1. I request the Arlington 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:

Arlington

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

C. Project Description

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

North Union Street, Gordon Road, Wheaton Road,
Patrick Street, and Purcell Road
N/A - Roadway Right-of-Way (ROW)
Assessors Map/Plat Number

Arlington
City/Town
N/A - Roadway ROW
Parcel/Lot Number

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

The project area is located with the paved public ROW of the streets listed above. Refer to the attached cover letter and figures for additional detail.

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

Figure 1 - Site Location Map	8/6/2024
Title	Date
Figure 2 - Priority Resources Map	8/6/2024
Title	Date
Figure 3 - Orthophotograph	8/6/2024
Title	Date

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

The proposed work consists of replacing existing subsurface gas mains within portions of North Union Street, Gordon Road, Wheaton Road, Patrick Street, and Purcell Road in Arlington. Please refer to the cover letter for more details.



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).

310 CMR 10.02(2)(a)(2) / 310 CMR 10.02(2)(b)(2)(i) / M.G.L. chapter 131 § 40 first paragraph - 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...

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.)



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:

Town of Arlington
Name

730 Massachusetts Avenue Annex
Mailing Address

Arlington
City/Town

MA
State

02476
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.

Jaime Walker
Signature of Applicant

9/17/2024
Date

[Signature]
Signature of Representative (if any)

9/17/2024
Date

BYLAW FILING FEES AND TRANSMITTAL FORM

Rules:

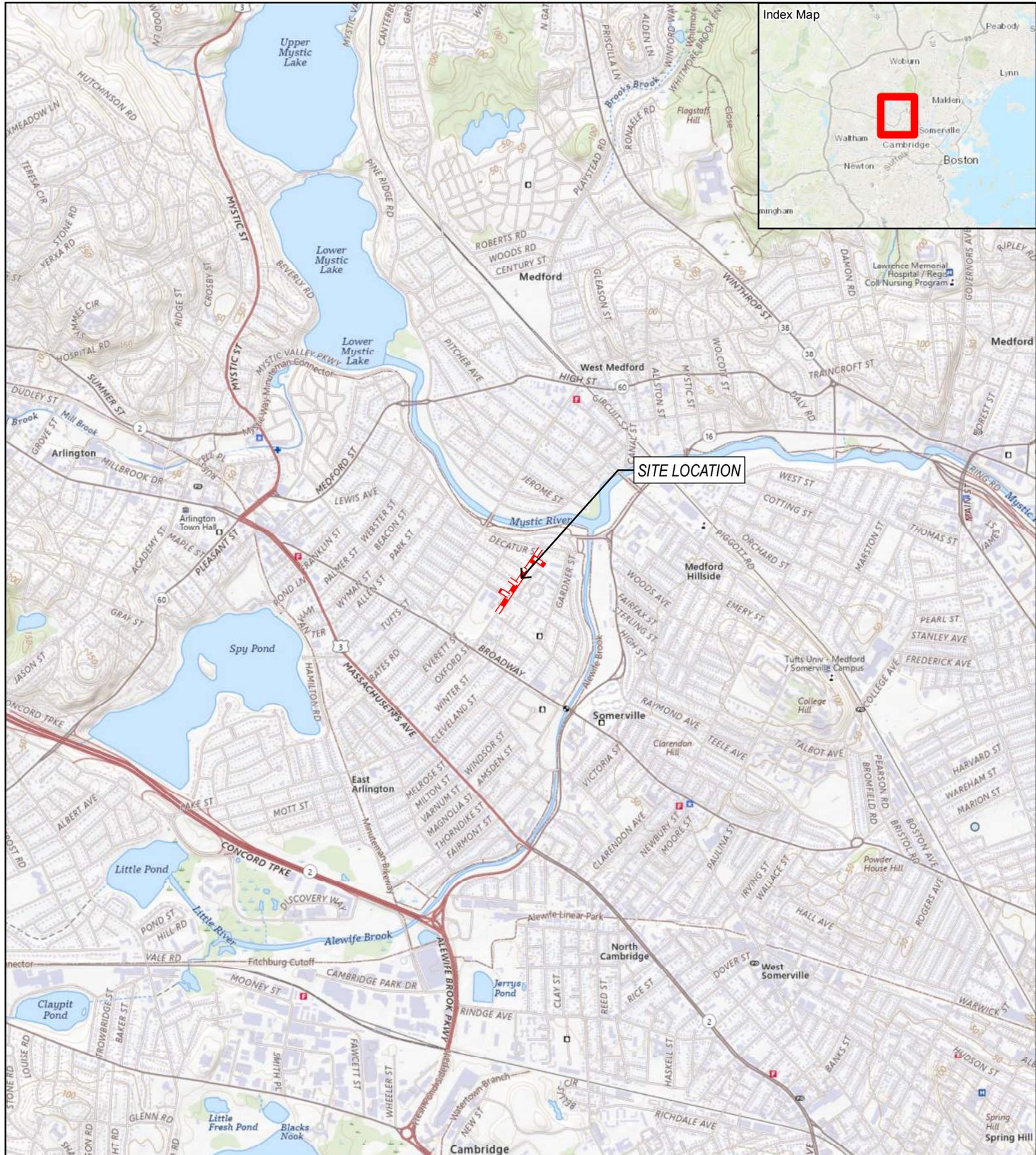
1. Fees are payable at the time of filing the application and are non-refundable.
2. Fees shall be calculated per schedule below.
3. Town, County, State, and Federal Projects are exempt from fees.
4. These fees are in addition to the fees paid under M.G.L. Ch. 131, s.40 (ACT).

Fee Schedule (ACC approved 1/8/15):

\$	No./Area	Category
150	1	(R1) RDA - \$150 local fee, no state fee
		(N1) Minor Project - \$200 (house addition, tennis court, swimming pool, utility work, work in/on/or affecting any body of water, wetland or floodplain).
		(N2) Single Family Dwelling - \$600
		(N3) Multiple Dwelling Structures - \$600 + \$100 per unit all or part of which lies within 100 feet of wetlands or within land subject to flooding.
		(N4) Commercial, Industrial, and Institutional Projects - \$800 + 50¢/s.f. wetland disturbed; 2¢/s.f. land subject to flooding or buffer zone disturbed.
		(N5) Subdivisions - \$600 + \$4/l.f. feet of roadway sideline within 100 ft. of wetlands or within land subject to flooding.
		(N6) Other Fees - copies, printouts; per public records law
		(N7) Minor Project Change - \$50
		(N8) Work on Docks, Piers, Revetments, Dikes, etc - \$4 per linear foot
		(N9) Resource Boundary Delineation (ANRAD) - \$1 per linear foot
		(N10) Certificate of Compliance (COC or PCOC) - No charge if before expiration of Order, \$200 if after that date.
		(N11) Amendments - \$300 or 50% of original local filing fee, whichever is less.
		(N12) Extensions -
		a. Single family dwelling or minor project - \$100.
		b. Other - \$150.
		(N13) Consultant Fee -per estimate from consultant
<i>Subtotal</i>	\$150	
	+\$150	Legal Notice Charge
	TOTAL \$300	

Note: Submit this form along with the forms submitted for the ACT - the "Wetlands Filing Fee Calculations Worksheet," and the "Notice of Intent Fee Transmittal Form."

ATTACHMENT B



SITE LOCATION

PROPOSED GAS MAIN REPLACEMENT

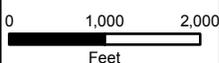
Site Location

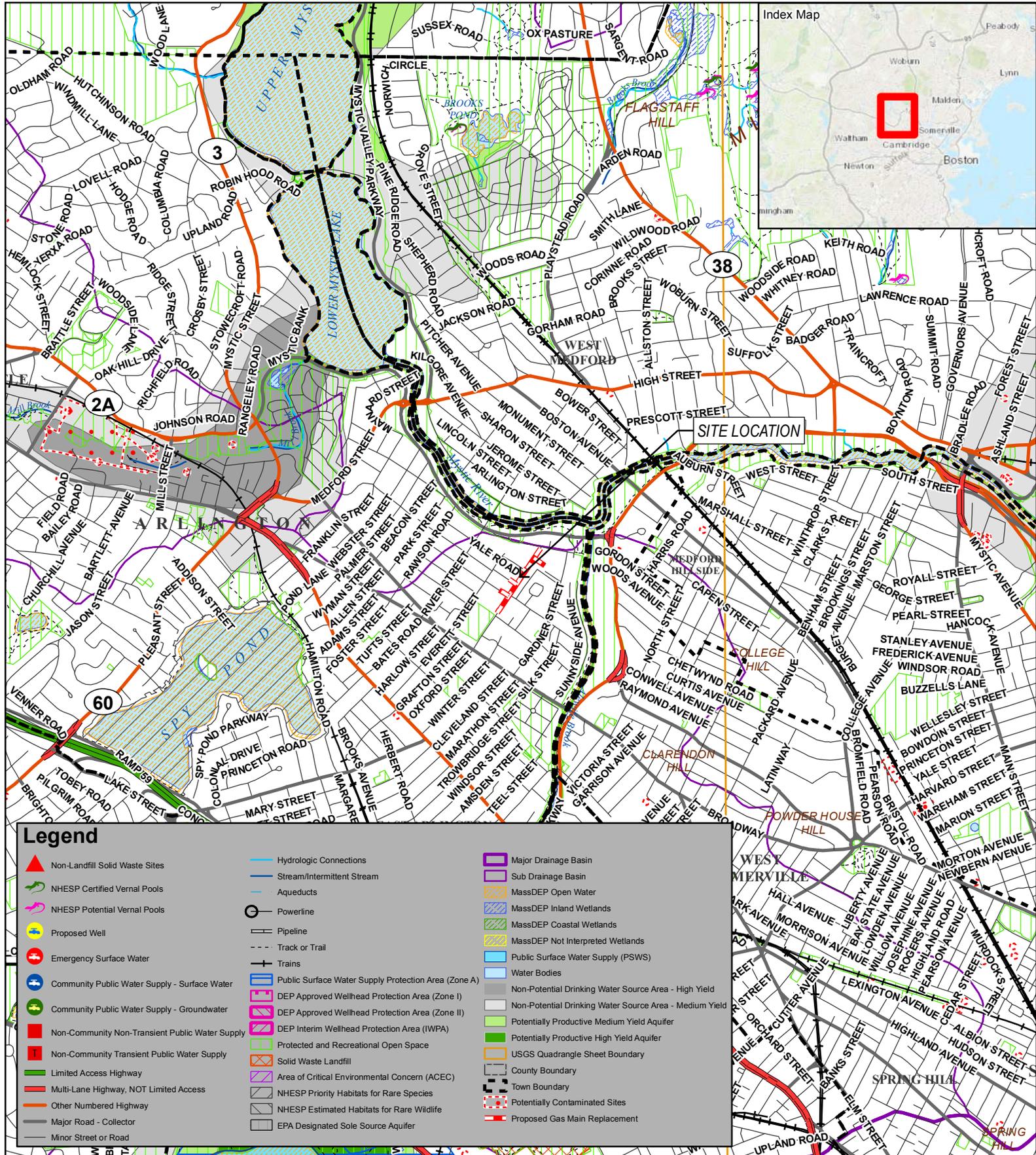
55-131 N. Union St
Arlington, Massachusetts
Figure 1

Based on USGS National Map
Topo Basemap for Lexington
Contour Interval Equals 10 Feet

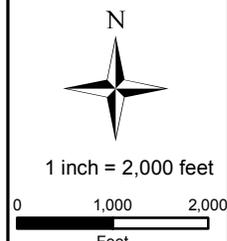


1 inch = 2,000 feet





Legend					
	Non-Landfill Solid Waste Sites		Hydrologic Connections		Major Drainage Basin
	NHESP Certified Vernal Pools		Stream/Intermittent Stream		Sub Drainage Basin
	NHESP Potential Vernal Pools		Aqueducts		MassDEP Open Water
	Proposed Well		Powerline		MassDEP Inland Wetlands
	Emergency Surface Water		Pipeline		MassDEP Coastal Wetlands
	Community Public Water Supply - Surface Water		Trains		MassDEP Not Interpreted Wetlands
	Community Public Water Supply - Groundwater		Track or Trail		Public Surface Water Supply (PSWS)
	Non-Community Non-Transient Public Water Supply		Trains		Water Bodies
	Non-Community Transient Public Water Supply		Trains		Non-Potential Drinking Water Source Area - High Yield
	Limited Access Highway		Public Surface Water Supply Protection Area (Zone A)		Non-Potential Drinking Water Source Area - Medium Yield
	Multi-Lane Highway, NOT Limited Access		DEP Approved Wellhead Protection Area (Zone I)		Potentially Productive Medium Yield Aquifer
	Other Numbered Highway		DEP Approved Wellhead Protection Area (Zone II)		Potentially Productive High Yield Aquifer
	Major Road - Collector		DEP Interim Wellhead Protection Area (IWPA)		USGS Quadrangle Sheet Boundary
	Minor Street or Road		Protected and Recreational Open Space		County Boundary
	Major Road - Collector		Solid Waste Landfill		Town Boundary
	Minor Street or Road		Area of Critical Environmental Concern (ACEC)		Potentially Contaminated Sites
	Minor Street or Road		NHESP Priority Habitats for Rare Species		Proposed Gas Main Replacement
	Minor Street or Road		NHESP Estimated Habitats for Rare Wildlife		
	Minor Street or Road		EPA Designated Sole Source Aquifer		



PROPOSED GAS MAIN REPLACEMENT

Priority Resources
 55-131 N. Union St
 Arlington, Massachusetts
 Figure 2

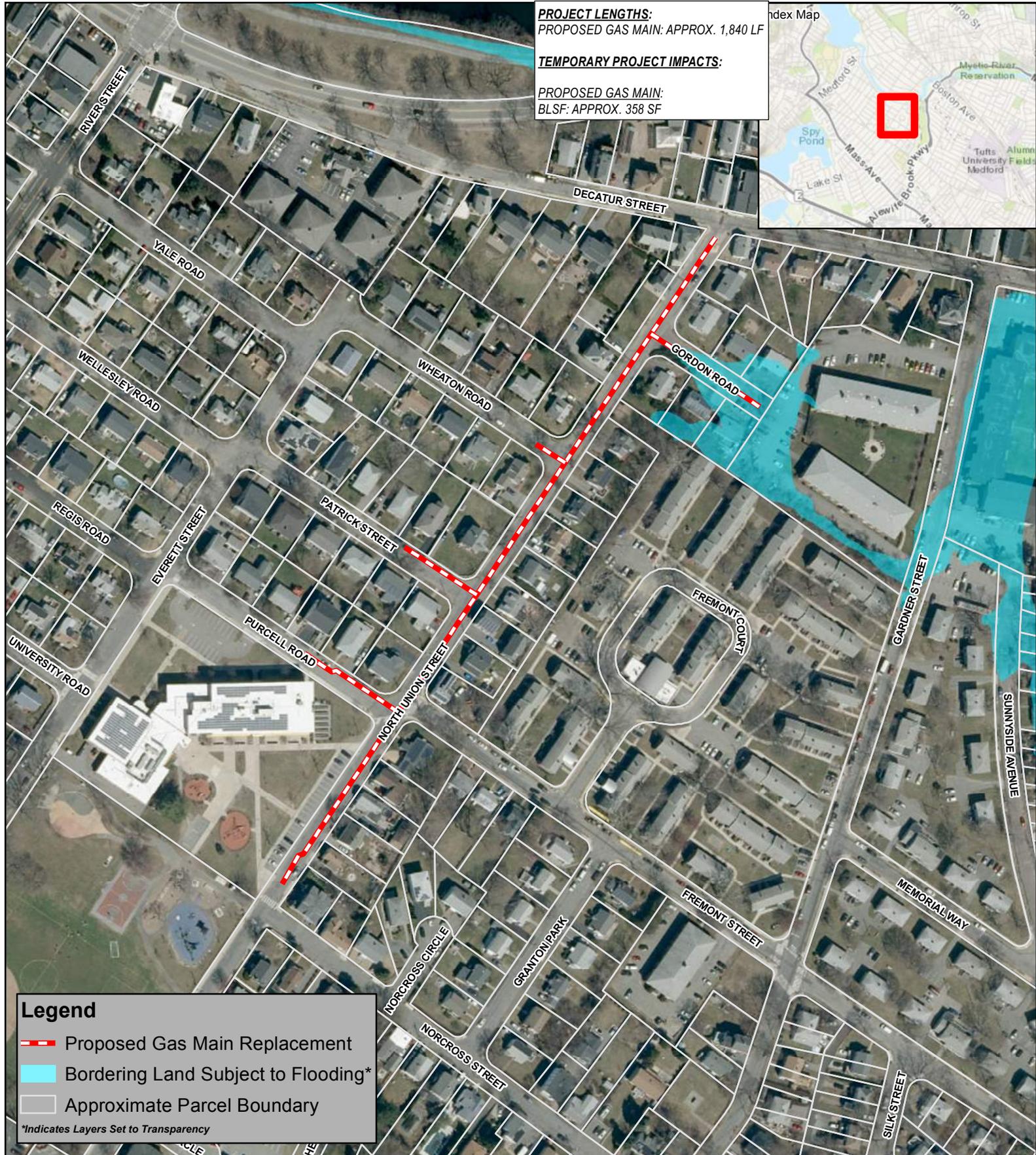
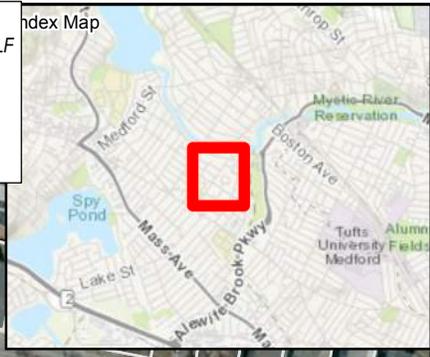
Data source: Bureau of Geographic Information (MassGIS), Commonwealth of Massachusetts, Executive Office of Technology
 Data valid as of August 2024.

50 of 137

PROJECT LENGTHS:
PROPOSED GAS MAIN: APPROX. 1,840 LF

TEMPORARY PROJECT IMPACTS:

PROPOSED GAS MAIN:
BLSF: APPROX. 358 SF



Legend

- Proposed Gas Main Replacement
- Bordering Land Subject to Flooding*
- Approximate Parcel Boundary

*Indicates Layers Set to Transparency

1 inch = 200 feet

0 90 180
Feet

PROPOSED GAS MAIN REPLACEMENT

Orthophotograph
55-131 N. Union St
Arlington, Massachusetts
Figure 3

Based on MassGIS Color Orthophotography (2023). Parcel boundaries (FY 24) were downloaded from MassGIS and are approximate.

ATTACHMENT C

nationalgrid

55-131 N UNION ST GAS MAIN REPLACEMENT 3" & 4" BS; 6" CI; 4" CS; 4" & 6" PL TO 4", 6", 8" PL (LP) (55-131) N UNION ST, DECATUR ST, GORDON RD, WHEATON RD, PATRICK ST, PURCELL RD ARLINGTON, MA W.O. NO.: 1593766

PIPE TOTALS			
DIAMETER	MATERIAL	ABANDONED	INSTALLED
3"	BS	215 LF	—
4"	BS	150 LF	—
4"	CS	130 LF	—
4"	PL	60 LF	215 LF
6"	CI	1235 LF	—
6"	PL	40 LF	340 LF
8"	PL	—	1275 LF



INDEX OF SHEETS		
SHEET	NAME	TITLE
1	DDS-ARL-71240179 G-001	COVER - LOCATION MAP
2	DDS-ARL-71240179 G-002	CONSTRUCTION NOTES
3	DDS-ARL-71240179 G-003	CONSTRUCTION NOTES & BILL OF MATERIALS
4	DDS-ARL-71240179 C-001	OVERALL SCOPE OF WORK
5	DDS-ARL-71240179 C-002	LAYOUT SHEET
6	DDS-ARL-71240179 C-003	LAYOUT SHEET
7	DDS-ARL-71240179 C-004	LAYOUT SHEET
8	DDS-ARL-71240179 C-101	TIE-IN & ABANDONMENT DETAILS
9	DDS-ARL-71240179 C-201	STANDARD DETAILS
10	DDS-ARL-71240179 C-202	STANDARD DETAILS
11	DDS-ARL-71240179 C-203	STANDARD DETAILS
12	DDS-ARL-71240179 C-204	STANDARD DETAILS



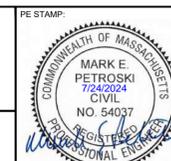
LOCATION MAP
 LAT/LON: 42°24'45.6"N, 71°8'12.3"W
 ARLINGTON, MA
 SCALE: 1:250



THE DDS COMPANIES
 153 CORDAVILLE RD, SUITE 210
 SOUTHBOROUGH, MA 01772
 PHONE (781) 385-4644

BOSTON GAS COMPANY
 d/b/a
nationalgrid
 170 DATA DRIVE
 WALTHAM, MA 02451

IFC



NO.	DESCRIPTION	DATE	DR. BY	CK. BY	APP. BY
1	NG COMMENTS	07/24/2024	DTD	SDS	MEP
0	ISSUED FOR CONSTRUCTION	07/02/2024	DTD	DMJ	JSW

55-131 N UNION ST
 GAS MAIN REPLACEMENT
 N UNION ST, DECATUR ST, GORDON RD, WHEATON RD, PATRICK ST, PURCELL RD
 ARLINGTON, MA

COVER - LOCATION MAP

DWG SIZE	DESIGNER	ENGINEER	DATE	ASSET I.D.	W.O. NO.:
22"X34"	DDS COMPANIES	D. DUER	07/02/2024	XXXXXXXX	1593766

PAGE 01 OF 12	
DRAWING NO.	SHEET NO.
G-001	01

SCOPE OF WORK:

NATIONAL GRID WORK ORDER NUMBER: 1593766
55-131 N UNION ST, ARLINGTON, MA

DUE TO PAVING BY THE TOWN OF ARLINGTON PWNONREIM RECOMMENDS THE REPLACEMENT OF APPROX.:

- 1205' OF 6" LP CI (1923) AND 40' OF 6" LP PL (2011-2023) GAS MAIN IN N. UNION ST FROM #55 TO JUST SHORT OF DECATUR ST WITH 1245' OF 8" LP PL
- 215' OF 3" LP BS (1960) GAS MAIN IN GORDON RD FROM N. UNION ST TO END OF MAIN WITH 215' OF 4" LP PL
- 30' OF 6" LP CI (1949) GAS MAIN IN WHEATON RD WITH 30' OF 8" LP PL
- 150' OF 4" LP BS (1970) GAS MAIN IN PATRICK ST FROM N. UNION ST TO #7 PATRICK ST WITH 150' OF 6" LP PL
- 130' OF 4" LP CS (1970) (DARL0033) AND 60' OF 4" LP PL (2011) GAS MAIN IN PURCELL RD FROM N. UNION ST TO #9 PURCELL RD WITH 190' OF 6" LP PL
- CONNECT TO EXISTING 6" LP PL (2023) GAS MAIN IN FREEMONT ST

GENERAL CONSTRUCTION:

1. NO FIELD CHANGES SHALL BE MADE TO THIS PLAN WITHOUT APPROVAL OF ASSIGNED NATIONAL GRID ENGINEER.
 - A. ENGINEER: BRENDAN GALLAGHER
 - B. PHONE: (774) 813-7488
 - C. EMAIL: BRENDAN.GALLAGHER1@NATIONALGRID.COM
2. NEW MAINS SHALL BE INSTALLED IN ACCORDANCE WITH THE TYPICAL TRENCH DETAIL INCLUDED IN THESE DRAWINGS, UNLESS NOTED OTHERWISE.
 - A. 36 INCHES OF COVER FROM FINAL GRADE WHERE PRACTICAL
 - B. STATE HIGHWAY MINIMUM COVER: 36 INCHES
 - C. DISTRIBUTION MAIN MINIMUM COVER: 24 INCHES
 - D. SAND PADDING IN ALL DIRECTIONS, 6 INCHES MINIMUM.
 - E. CAUTION TAPE SHALL BE INCLUDED ONE FOOT BELOW GRADE.
3. SERVICES SHOULD BE INSTALLED WITH 24 INCHES OF COVER.
 - A. MINIMUM IN PUBLIC ROW: 18 INCHES
 - B. MINIMUM IN PRIVATE PROPERTY: 12 INCHES
 - C. SAND PADDING IN ALL DIRECTIONS, 6 INCHES MINIMUM.
 - D. CAUTION TAPE SHALL BE INCLUDED ONE FOOT BELOW GRADE.
4. ALL REQUESTS FOR SHALLOW MAINS AND FITTINGS MUST BE APPROVED PRIOR TO INSTALLATION. PLEASE REFER TO CNST04017, SHALLOW MAINS POLICY (MA ONLY) FOR REQUIREMENTS (24" ON MUNICIPAL ROADS, 36" ON ROADS UNDER MASSDOT JURISDICTION) AND GUIDANCE WHEN ENCOUNTERING FIELD CONDITIONS THAT MAY LEAD TO INSTALLING A SHALLOW DISTRIBUTION MAIN OR FITTING. PLEASE REFER TO CNST-6030-MA-RI FOR THE PROPER INSTALLATION OF PROTECTIVE STEEL PLATES. CONTACT GAS PIPELINE SAFETY & COMPLIANCE TO OBTAIN DPU APPROVAL.
 - A. LIEN MOOREHEAD - (617) 438-9069
 - B. JASON BARON - (351) 666-9082
 - C. IF A PROPOSED TOP TEE CONNECTION RESULTS IN A SHALLOW MAIN THAT CANNOT MEET THE WAIVER CRITERIA, A FULL TEE CONNECTION IS AN ACCEPTABLE ALTERNATIVE. A SPHERICAL TEE IS ONLY ACCEPTABLE WITH APPROVAL FROM NATIONAL GRID STRATEGIC ASSET AND SYSTEM PLANNING.
5. ALL MAINS SHOULD BE INSTALLED WITH A CLEARANCE OF 12 INCHES FROM OTHER FACILITIES.
 - A. DISTRIBUTION MINIMUM CLEARANCE: 6 INCHES
 - B. APPROPRIATE PROTECTIVE MEASURES SHALL BE USED TO PROTECT THE GAS FACILITY IF MINIMUMS CANNOT BE ATTAINED. APPROVAL IS REQUIRED BY GAS SYSTEMS ENGINEERING.
6. THE PIPE ALIGNMENT IS SHOWN FOR REFERENCE ONLY AS APPROXIMATELY 3 FEET FROM THE EXISTING MAIN (BASED ON AVAILABLE RECORD INFORMATION). THE ACTUAL ROUTE AND ALL VERTICAL AND HORIZONTAL OFFSETS ARE TO BE FIELD ROUTED WITHIN THE PUBLIC RIGHT-OF-WAY BASED ON THE ACTUAL LOCATION OF EXISTING UTILITIES. ADDITIONAL FITTINGS NOT SHOWN WILL BE REQUIRED.
7. VALVES DEPICTED IN THE DESIGN ARE THE MINIMUM REQUIRED FOR SECTIONALIZING, ISOLATION, CRITICAL VALVES, AND/OR TO ACCOMMODATE TIE-INS. ADDITIONAL FULL PORT VALVES MAY BE ADDED TO ACCOMMODATE CONSTRUCTION.
 - A. VALVES FOR BRANCHES AT INTERSECTIONS SHOULD BE FIELD LOCATED JUST OUTSIDE OF THE INTERSECTION WHERE EASILY ACCESSIBLE, PRIOR TO THE FIRST SERVICE.
8. ELECTROFUSION COUPLINGS MAY BE INTERCHANGED WITH BUTT FUSION WHERE APPLICABLE.
9. TIE-IN LOCATIONS MAY VARY UP TO 100 FEET OF THE PROPOSED LOCATION TO ACCOMMODATE CONSTRUCTION, EXCEPT FOR WHEN THE FOLLOWING CONDITIONS APPLY:
 - A. REGULATOR STATION WITHIN THE SCOPE OF THE JOB OR WITHIN 200 FEET OF THE TIE-IN LOCATION.
 - B. CHANGE TO THE NUMBER OF CONNECTIONS (ADDITIONAL ADDED FROM AN INTERSECTION OR OTHERWISE).
 - C. MATERIAL/SIZE CHANGE AT NEW LOCATION.
10. NOT ALL BYPASSES, GAUGES, PURGES AND OTHER MISCELLANEOUS FITTINGS ARE SHOWN. CONSTRUCTION SHALL INSTALL THESE FITTINGS AS NEEDED IN ACCORDANCE WITH THE APPROVED SOP.
11. WHEN CONNECTING NEW 'DEAD' MAIN TO NEW 'DEAD' MAIN, ALL CONNECTIONS SHALL BE MADE USING AN INLINE TEE, UNLESS OTHERWISE NOTED. PRIOR TO INSTALLATION, ANY FIELD CHANGE IN CONNECTION TYPE ON 'DEAD' MAIN SHALL BE REVIEWED AND APPROVED BY ENGINEERING.
12. THE LIVE MAIN CONNECTION DETAIL SHOWN IN THE DRAWINGS SHALL BE FOLLOWED. ANY CHANGES TO THE TIE IN CONNECTION TYPE SHALL BE APPROVED BY THE NATIONAL GRID ENGINEER PRIOR TO CONSTRUCTION.
13. THE CONTRACTOR SHALL CALL DIG-SAFE (DIAL 811) OR 888-344-7233 AT LEAST 72 HOURS PRIOR TO CONSTRUCTION. SATURDAYS, SUNDAYS, AND HOLIDAYS ARE EXCLUDED.
14. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES AND STRUCTURES DEPICTED OR NOT DEPICTED ON THIS PLAN PRIOR TO COMMENCEMENT OF CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PHYSICALLY LOCATE ON-SITE UTILITIES THROUGH TEST PIT EXCAVATION OF SAID UTILITIES W/ PRIOR AUTHORIZATION FROM UTILITY OWNER.
15. NOTIFY NATIONAL GRID I&R IF THE PROJECT IS WITHIN 200 FEET OF A REGULATOR STATION.
16. PIPE AND FITTING QUANTITY DESCRIBED IN SCOPE MAY VARY FROM AMOUNTS SHOWN ON THE BILL OF MATERIALS TO ACCOMMODATE FIELD CONDITIONS AND CONSTRUCTION.
17. CONTRACTOR TO REFER TO NATIONAL GRID SERVICE RECORD INFORMATION, ASSOCIATED CONSTRUCTION STANDARDS AND NATIONAL GRID INSTRUCTION FOR ALL SERVICE WORK WITHIN THE SCOPE OF LIMITS OF THIS PROJECT.
18. ANY FITTINGS (SUCH AS BUT NOT LIMITED TO, PURGES, VENTS & GAUGES) WHICH ARE REPRESENTED ON THESE PLANS AND DETAILS WITHOUT AN ASSOCIATED PART ON THE BILL OF MATERIALS ARE TO BE SIZED AND SELECTED PER CURRENT NATIONAL GRID STANDARDS BY THE CONTRACTOR.
19. DIMENSIONS SHOWN ILLUSTRATE THE INTENT OF MAIN PLACEMENT. SLIGHT VARIATIONS ARE EXPECTED. ANY SIGNIFICANT CHANGE NEEDS TO BE BROUGHT TO THE OWNERS (NATIONAL GRID) ATTENTION PRIOR TO PLACEMENT.
20. CONTRACTOR TO VERIFY PRESSURE AND GAS FEED DIRECTION OF EXISTING MAINS, NEW MAINS, AND MAINS TO BE ABANDONED PRIOR TO ANY AND ALL TIE INS BEING PERFORMED.
21. LOCATION OF ANY IDENTIFIED UNDERGROUND UTILITIES IS APPROXIMATE ONLY, AND IS NOT WARRANTED TO BE CORRECT. ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT INDICATED ON THESE PLANS. ALL EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR FOR SERVICE, SIZE, INVERT ELEVATIONS, LOCATION, ETC.
22. THE CONTRACTOR SHALL PROTECT AND MAINTAIN DIG SAFE FIELD MARKS, ANY EXISTING PROPERTY LINE MONUMENTATION OR OTHER EXISTING SURVEY STAKES OR FIELD MARKS. THE CONTRACTOR SHALL REPLACE AT THEIR EXPENSE ANYTHING DISTURBED OR DESTROYED.

23. THE CONTRACTOR SHALL COMPLETE MISCELLANEOUS WORK NOT SPECIFICALLY SHOWN ON THE CONTRACT DRAWINGS SUCH AS PAVEMENT PATCHING, TRENCH & EQUIPMENT BLOCKING, TREE TRIMMING, ETC.
24. ANY SUBSURFACE UTILITIES, STRUCTURES AND/OR FIXED OBJECTS SHOWN AT, BELOW OR ABOVE GRADE SHOWN ON THESE PLANS HAVE BEEN PLACED BASED ON AVAILABLE RECORD MAPPING, AERIAL IMAGERY AND OTHER DESIGN RESOURCES. CONTRACTOR IS WARNED THAT EXACT OR APPROXIMATE LOCATION OF SUBSURFACE UTILITIES, STRUCTURES AND/OR FIXED OBJECTS SHOWN AT, BELOW OR ABOVE GRADE IN THE PROJECT AREA MAY DIFFER FROM THAT SHOWN OR MAY NOT BE SHOWN. IT IS THE CONTRACTORS RESPONSIBILITY TO PERFORM FIELD VERIFICATION PRIOR TO EXECUTING ANY WORK.
25. ALL TRENCH EXCAVATION AND ANY REQUIRED SHEETING AND SHORING SHALL BE DONE IN ACCORDANCE WITH THE LATEST NATIONAL GRID, APPLICABLE STATE DOT AND LOCAL MUNICIPAL STANDARDS.
26. CONTRACTOR SHALL MAINTAIN ALL TRAFFIC IN ALL AREAS IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
27. ALL NECESSARY PRECAUTION FOR THE SAFETY OF THE PUBLIC SHALL BE TAKEN. ALL BARRIERS, WARNING LIGHTS AND OTHER DEVICES AND EQUIPMENT REQUIRED BY FEDERAL, STATE AND LOCAL AUTHORITIES SHALL BE MAINTAINED.
28. CONTRACTOR SHALL TAKE CARE TO PREVENT DAMAGE TO ALL OTHER EXISTING UTILITIES. DAMAGED UTILITIES SHALL BE IMMEDIATELY REPAIRED BY CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
29. CONTRACTOR MAY INSTALL ADDITIONAL VALVES NOT SHOWN IN THE PLANS IF DEEMED NECESSARY IN THE FIELD. NEW VALVES ASSOCIATED WITH TIE INS (SEE DETAILS ON SHEET 08) MUST BE INSTALLED PER THE DETAIL. FINAL LOCATION OF THE NEW VALVES IS TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR. ANY SIGNIFICANT CHANGE MUST BE BROUGHT TO THE OWNERS (NATIONAL GRID) ATTENTION PRIOR TO INSTALLATION.
30. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUAINTING WITH THE CONDITIONS FOR THE SITE AND FOR ESTIMATING PROPERLY THE DIFFICULTY AND COST TO SUCCESSFULLY PERFORM THE WORK.
31. NATIONAL GRID RESERVES THE RIGHT TO EXAMINE ANY WORK DONE ON THIS PROJECT AT ANY TIME TO DETERMINE THE CONFORMANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS OF THIS PROJECT, AS INTENDED AND INTERPRETED BY NATIONAL GRID.

DESIGN CRITERIA:

1. DESIGN IN ACCORDANCE WITH THE FOLLOWING:
 - A. ENGO4001: DESIGN OF DISTRIBUTION MAINS
 - B. ENGO4003: MAOP VERIFICATION POLICY FOR PLASTIC GAS DISTRIBUTION NETWORKS
2. PROPOSED PIPING:
 - A. DESIGN CLASS LOCATION - 4
 - B. NOMINAL SIZE: 4, 6, & 8 INCH
 - C. MATERIAL: MDPE
 - D. MAOP: LP
3. PIPE SIZE WAS DESIGNED AND APPROVED BY NATIONAL GRID STRATEGIC ASSET AND SYSTEM PLANNING AND REFERENCED IN THE DESIGN PARAMETERS ON SHEET C-001.
4. WHERE REQUIRED, THE CONTRACTOR SHALL INSTALL A TEMPORARY BYPASS TO MAINTAIN CONTINUOUS SERVICE TO CUSTOMERS IN ACCORDANCE WITH CS-LIVE02.ALL TEMPORARY BYPASS REQUIREMENTS SHALL BE DESIGNED BY OPERATIONS ENGINEERING AND INCLUDED AS PART OF THE SOP.

SERVICE DESIGN CRITERIA:

1. DESIGN IN ACCORDANCE WITH THE FOLLOWING:
 - A. ENGO2001: DESIGN OF GAS SERVICES
 - B. ENGO4003: MAOP VERIFICATION POLICY FOR PLASTIC GAS DISTRIBUTION NETWORKS
2. PRIOR TO MAIN ABANDONMENT, THE CONTRACTOR SHALL CONFIRM THAT ALL IMPACTED CUSTOMER SERVICES ARE INSTALLED (E.G., RELAYED, TRANSFERRED, OR INSERTED) ON THE NEW MAIN.
3. WHEN RELAYING A LOWER PRESSURE MAIN WITH A HIGHER-PRESSURE MAIN, AND CONSISTENT WITH ENGO4003 (THE POLICY):
 - A. SERVICES MAY BE RE-VERIFIED AND TRANSFERRED TO THE NEW MAIN ONLY IF ALL REQUIREMENTS IN THE POLICY ARE MET.
 - B. ALL SERVICES THAT ARE ELIGIBLE FOR RE-VERIFICATION AND TRANSFER SHALL BE IDENTIFIED WITHIN THIS PLAN SET ON THE ASSOCIATED ELIGIBLE SERVICE TABLE.
 - C. IMPLEMENTATION OF THE POLICY SHALL BE DOCUMENTED PER THE POLICY REQUIREMENTS.
4. WHEN UPGRATING, DOWNRATING, OR RELAYING A MAIN WITH A DIFFERENT PRESSURE:
 - A. CONSTRUCTION SHALL CONTACT ENGINEERING PRIOR TO INSTALLATION FOR ANY CHANGES TO PROPOSED SERVICE SIZING OR INSTALLATION METHOD.
 - B. ALL INSTALLED SERVICES SHALL BE APPROPRIATELY FITTED WITH SERVICE REGULATORS FOR THE NEW OPERATING PRESSURES.
5. FOR NEW OR RETROFITTED METERFITS, SEE 1703 FORM FOR CUSTOMER METERFIT INFORMATION.

PROJECT CONSTRUCTION REQUIREMENTS:

1. PER NATIONAL GRID GAS POLICY DOC# ENG05004, ALL COMPLEX PROJECTS ARE REQUIRED TO PREPARE AN SOP IN ACCORDANCE WITH THE STAMPED PLANS, WHICH MUST BE APPROVED BY A PROFESSIONAL ENGINEER. THE SOP MUST INCLUDE ALL PROPOSED PROJECT SPECIFIC STEPS AND PROCEDURES TO DEFINE AN ADEQUATE SEQUENCE FOR CONSTRUCTION OF THE MAIN.
2. IN ACCORDANCE WITH MASSACHUSETTS 220 CMR 105.00, THE STAMPED SOP IS CONSIDERED PART OF A REQUIRED PROJECT SPECIFIC PACKAGE TO PERFORM ANY COMPLEX PROJECT CONSTRUCTION. THEREFORE, FOR ANY COMPLEX PROJECT CONSTRUCTION WORK, THE CONTRACTOR MUST FOLLOW THE PE STAMPED SOP.

CODES & STANDARDS

1. WORK SHALL CONFORM TO ALL LOCAL, STATE, AND FEDERAL CODES IN ADDITION TO NATIONAL GRID GAS POLICIES AND WORK METHODS. WHERE ANY CONFLICTS OF CODES, STANDARDS AND REGULATIONS MAY EXIST, THE MORE STRINGENT CODE, STANDARD, OR REGULATION SHALL APPLY.
2. ALL REFERENCES SHALL BE IN ACCORDANCE WITH THE MOST CURRENT REVISION AVAILABLE AT THE TIME OF CONSTRUCTION.
3. FEDERAL & STATE:
 - A. TITLE 49: PART 192 TRANSPORTATION OF NATURAL AND OTHER GAS BY PIPELINE: MINIMUM FEDERAL SAFETY STANDARDS
 - B. 220 CMR: DEPARTMENT OF PUBLIC UTILITIES
 - 100.00 - 113.00: MASSACHUSETTS GAS DISTRIBUTION CODE
 - C. AMERICAN SOCIETY OF MECHANICAL ENGINEERS
 - B31.8: GAS TRANSMISSION AND DISTRIBUTION PIPING SYSTEMS
 - D. 248 CMR 4-7: MA FUEL GAS CODE
4. CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH NATIONAL GRID GAS POLICIES AND WORK METHODS, INCLUDING BUT NOT LIMITED TO:
 - A. CNST01003: BACKFILL AND RESTORATION
 - B. CNST01005: PREPARATION OF GAS FACILITY HISTORICAL RECORDS
 - C. CNST01006: COMMERCIALY AVAILABLE SHORING SYSTEMS
 - D. CNST02014: ENCAPSULATING CAST IRON JOINTS
 - E. CNST03001: SQUEEZE-OFF OPERATIONS
 - F. CNST03002: STOP-OFF OPERATIONS ON LOW PRESSURE MAINS
 - G. CNST03005: PURGING REQUIREMENTS FOR GAS PIPELINES
 - a. CNST03006: PURGING OPERATIONS - DIRECT DISPLACEMENT
 - b. CNST03007: PURGING OPERATIONS - COMPLETE INERT FILL
 - c. CNST03008: PURGING OPERATIONS - SLUG METHOD
 - H. CNST03014: STOP OFF OPERATIONS FOR KLEISS EQUIPMENT
 - I. CNST04005: INSTALLING STEEL DISTRIBUTION MAINS
 - J. CNST04007: FIELD COLD BENDING OF LINE PIPE
 - K. CNST04008: INSTALLING PLASTIC MAINS
 - L. CNST04011: ABANDONMENT OF MAINS
 - M. CNST04012: GROUTING ABANDONED PIPELINES
 - N. CNST04030: RAISING MAIN AND SERVICE GATE BOXES
 - O. CNST05001: JOINING OF PLASTIC PIPE
 - P. CNST5010: GENERAL CONSTRUCTION REQUIREMENTS AND PIPE HANDLING
 - Q. DAMO1011: EXCAVATION AND EXCAVATION NOTIFICATION REQUIREMENTS FOR UNDERGROUND FACILITIES FOR MASSACHUSETTS AND RHODE ISLAND
 - R. DAMO1015: LOCATE AND MARK-OUT REQUIREMENTS FOR UNDERGROUND GAS FACILITIES
 - S. DAMO1016: LOCATE AND MARK-OUT OF UNDERGROUND FACILITIES
 - T. GCON02001: SYSTEM OPERATING PROCEDURE (SOP)
 - U. GENO1100: OPERATOR QUALIFICATION PLAN
 - V. GENO3002: PROCESSING GAS MAIN AND NEW SERVICE WORK PACKAGES
 - W. GENO3004: CHANGE CONTROL PROCEDURE FOR STANDARD CONSTRUCTION PROJECTS
 - X. INRO6002: SUPPLEMENTAL ODOORIZATION FOR NEW PIPING
 - Y. MECH5010: JOINTS OTHER THAN WELDED
 - Z. 030018-CS: SPECIFICATION AND HANDLING OF TRAFFIC PLATES
 - AA. CNST01001: HORIZONTAL DIRECTIONAL DRILLING
 - AB. CNST03011: NO-INTERRUPT SERVICE TRANSFER
 - AC. CNST6061: TRACER WIRE INSTALLATIONS FOR PLASTIC MAINS AND SERVICES
 - AD. MECH6010: CONNECTION OF DISSIMILAR POLYETHYLENE PLASTIC PIPE WITH ELECTROFUSION OR MECHANICAL COUPLING
 - AE. CS-CNST002: TYPICAL UTILITY CROSSING AND TRENCH GUIDELINES
5. SERVICE SPECIFIC CONSTRUCTION STANDARDS, GAS POLICIES AND WORK METHODS:
 - A. CMS03002: CUSTOMER METER AND SERVICE REGULATOR DESIGN AND INSTALLATION POLICY
 - B. CMS04002: PURGING PROCEDURES FOR CUSTOMER METER SERVICES
 - C. CNST03011: NO-INTERRUPT SERVICE TRANSFER
 - D. CNST06002: INSTALLING DISTRIBUTION SERVICES
 - E. CNST06003: INSTALLATION & MAINTENANCE POLICY FOR CURB VALVES ON SERVICE LINES WITH INSTALLED METER CAPACITIES OVER 1,000 SCFH THAT DON'T HAVE EXCESS FLOW VALVES
 - F. CNST06009: METER/SERVICE RELOCATION GUIDELINE
 - G. CNST06020: COMPLETION AND PROCESSING OF GAS SERVICE RECORD CARDS
 - H. CNST06030: NOTIFICATION OF CUSTOMERS INVOLVED IN THE INTERRUPTION OF GAS SERVICE
 - I. CS-SERV001: TYPICAL 1/2" SERVICE OUTSIDE SETS
 - J. CS-SERV002: TYPICAL 1" SERVICE OUTSIDE SETS
 - K. CS-SERV003: TYPICAL 1-1/4" SERVICE OUTSIDE SETS
 - L. CS-SERV004: TYPICAL 2" SERVICE
 - M. CS-SERV005: EXCESS FLOW VALVE REQUIREMENTS ON HP SERVICES
 - N. CS-SERV009: TYPICAL 1/2" SERVICE INSIDE SETS
 - O. CS-SERV010: TYPICAL 1" SERVICE INSIDE SETS
 - P. HTAP-6010: NO-INTERRUPT 1 INCH CTS AND 1-1/4 INCH CTS SERVICE TRANSFER (NIST) LP TO 60 PSIG MAINS
 - Q. SERV-5075: RELOCATION OF METER SET ASSEMBLIES INSIDE TO OUTSIDE
 - R. SERV-6185: HOT TAPPING MD BRANCH SADDLES OFF 4IN - 12IN 60 PSIG MAOP LIVE PLASTIC GAS MAIN USING MCELROY HOT TAPPING TOOL
 - S. SERV-6186: HOT TAPPING BRANCH SADDLES OFF 4"-12" LIVE PLASTIC GAS MAIN USING HDPE SUPRAFLOW TEES
 - T. VALV6110: 1/2 INCH - 3 INCH POLYETHYLENE GAS SERVICE VALVE INSTALLATION
 - U. SERV6076: 1-1/4" LP PLASTIC SERVICE WITH 1 AL-250 TC METER
 - V. SERV6077: 1-1/4" CTS LP PLASTIC INSERT WITH 1 AL-250 TC EQUIV. METER INSIDE
6. SEE BILL OF MATERIAL FOR MATERIAL SPECIFICATION, STANDARD AND/OR APPLICABLE NATIONAL GRID "FITS" REFERENCE.
 - A. FOR THIS PROJECT, GRADE B, X42, X52 AND EQUIVALENT ARE ACCEPTABLE STEEL MATERIAL STRENGTHS IF APPLICABLE. ALTERNATES TO THE BOM ARE ALLOWED WITHIN THIS RANGE BASED ON MATERIAL AVAILABILITY.

PRESSURE TESTING:

1. PRESSURE TEST ALL DISTRIBUTION PIPING IN ACCORDANCE WITH:
 - A. CNST04003: PRESSURE TESTING MAINS OPERATING BELOW 125 PSIG
 - B. TEST PRESSURE (MINIMUM): 90 PSIG
 - C. TEST DURATION BASED ON LENGTH AND DIAMETER IN ACCORDANCE WITH TABLE 1 OF CNST04003.
 - D. TEST MEDIUM: AIR AND/OR NITROGEN
2. PRESSURE TEST SERVICES IN ACCORDANCE WITH:
 - A. CNST06008: PRESSURE TESTING SERVICE LINES



153 CORDAVILLE RD, SUITE 210
SOUTHBOROUGH, MA 01772
PHONE (781) 385-4644

BOSTON GAS COMPANY
d/b/a

nationalgrid

170 DATA DRIVE
WALTHAM, MA 02451

IFC

PE STAMP:



MARK E. PETROSKI
7/24/2024
CIVIL
NO. 54037
REGISTERED PROFESSIONAL ENGINEER

NO.	DESCRIPTION	DATE	DR BY	CK BY	APP BY
1	NG COMMENTS	07/24/2024	DTD	SDS	MEP
0	ISSUED FOR CONSTRUCTION	07/02/2024	DTD	DMJ	JSW

55-131 N UNION ST
GAS MAIN REPLACEMENT
N UNION ST, DECATUR ST, GORDON RD, WHEATON RD, PATRICK ST, PURCELL RD
ARLINGTON, MA

CONSTRUCTION NOTES

DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"x34"	DDS COMPANIES	D. DUER	07/02/2024	XXXXXXXX	1593766

PAGE 02 OF 12	
DRAWING NO.	SHEET NO.
G-002	02

WELDING:

- NATIONAL GRID WELDING GAS POLICIES AND WORK METHODS INCLUDE:
 - CNST05002: WELDING POLICY
 - CNST05003: PIPE WELDING SAFETY
 - CNST05005: WELDING PROCEDURE SPECIFICATIONS
 - MS-030: WELDING FILLER MATERIALS
- PRIOR TO THE START OF ANY WORK THE CONTRACTOR SHALL SUBMIT WELDER CERTIFICATION DOCUMENTS FOR EACH OF THE WELDERS EMPLOYED ON THIS PROJECT.
- WELDING PROCEDURE SPECIFICATIONS REQUIRED:
 - BUTT WELDS (GROOVE): WPS-SMAW-E6010/7010 (LATEST REVISION)
 - FILLET WELDS (BRANCH): WPS-SMAW-E6010/7010 (LATEST REVISION)
- 10% (AT LEAST 1) OF WELDS SHALL BE SUBJECT TO NON-DESTRUCTIVE EXAMINATION (NDE):
 - BUTT WELDS 2-INCH AND GREATER: 10% RADIOGRAPH
 - BUTT WELDS < 2-INCHES: 10% MAGNETIC PARTICLE
 - FILLET WELDS: 10% MAGNETIC PARTICLE
- FOR EXPOSED MAINS INSTALLED ON A BRIDGE OR BURIED UNDER BRIDGE APPROACH SLABS, 100% OF THE WELDS SHALL BE SUBJECT TO NDE.
 - 100% OF BUTT WELDS > 2" SHALL BE RADIOGRAPHED
 - 100% OF WELDS <= 2" SHALL RECEIVE MAGNETIC PARTICLE TESTING
 - 100% OF FILLET WELDS SHALL BE MAGNETIC PARTICLE TESTED
- NDE AND WELD MAP SHALL BE PROVIDED BY SKYTESTING.
- SKYTESTING SCHEDULING CONTACT:
 - NAME: WILLIAM (BILL) CLARK
 - CELL: 704-858-7794
 - EMAIL: WCLARK@SKYTESTING.COM

CATHODIC PROTECTION:

- IF EXISTING TEST STATIONS, WIRES, AND/OR MAGNESIUM ANODES ARE DISTURBED OR DAMAGED, NOTIFY THE NATIONAL GRID CORROSION DEPARTMENT:
 - (CONSTRUCTION) DAVE HALNEN: 781-379-7831
 - (DESIGN REVIEW) ALANNA GRONDINE: 339-225-5378
 - (ATMOSPHERIC) ALISSIA APINIAN-MARGIOS: 781-296-7569
- 24 HOUR NOTICE IS REQUIRED PRIOR TO INSTALLATION OF INSULATED FITTINGS TO ALLOW FOR ACCEPTANCE TESTING.
- NATIONAL GRID CORROSION GAS POLICIES AND WORK METHODS INCLUDE:
 - COR01100: CORROSION DESIGN CRITERIA
 - COR02001: APPLICATION OF COATING SYSTEMS
 - COR02020: INSPECTING EXPOSED STEEL PIPE FOR CORROSION
 - COR02021: INSPECTING EXPOSED CAST OR DUCTILE PIPING FOR GRAPHITIZATION
 - COR03001: TESTING OF PIPE COATING (JEEP TESTING)
 - COR04001: INSTALLATION OF MAGNESIUM ANODES
 - COR04003: INSTALLATION OF TEST STATIONS FOR CATHODIC PROTECTION
 - COR04004: INSTALLATION OF WIRE CONNECTIONS
 - COR04005: INSTALLATION OF INSULATING JOINTS FOR CATHODIC PROTECTION
 - 030031-CS: FACILITY COATING GUIDE
- CORROSION DESIGN: SEE CONTENTS OF THIS DESIGN FOR CATHODIC PROTECTION REQUIREMENTS.

ENVIRONMENTAL:

- WORK SHALL CONFORM TO THE NATIONAL GRID ENVIRONMENTAL POLICY.
- NATIONAL GRID ENVIRONMENTAL CONTACT:
 - NAME: JAIME WALKER
 - PHONE: (978) 551-1156
 - EMAIL: JAIME.WALKER@NATIONALGRID.COM
- CONTRACTOR SHALL REVIEW THE PROJECT WORK ORDER PACKAGE FOR ENVIRONMENTAL GUIDANCE FORMS, FOR EXAMPLE EG-301, FOR THE RESPECTIVE STATE.
- WHEN SOILS OR LIQUIDS ARE ENCOUNTERED THAT ARE BELIEVED TO BE CONTAMINATED WITH OIL AND/OR HAZARDOUS MATERIAL, EXCAVATION WORK SHALL BE HALTED AND FIELD PERSONNEL SHALL NOTIFY THEIR IMMEDIATE SUPERVISOR.
- NO EXCAVATED SOIL SHALL LEAVE THE WORK SITE UNTIL ENVIRONMENTAL HAS MADE A DETERMINATION FOR ITS PROPER DISPOSAL.
- NATIONAL GRID ENVIRONMENT POLICIES AND PROCEDURES INCLUDE:
 - SHE02001: HANDLING CONTAMINATED MATERIALS AND PIPING
 - SHE02002: REMOVING MERCURY REGULATORS AND DEVICES
 - SHE02003: ENCOUNTERING CONTAMINATION WHILE EXCAVATING
 - EG303-NE: BEST MANAGEMENT PRACTICES
 - EG140: USED GAS PIPE MANAGEMENT
- ENVIRONMENTAL REQUIREMENTS:
 - PROPOSED WORK IS LOCATED WITHIN 100 FEET OF WETLANDS AND/OR BODIES OF WATER / WITHIN 200 FEET OF A RIVER OR A STREAM (*25 FEET IN BOSTON, BROCKTON, CAMBRIDGE, CHELSEA, EVERETT, FALL RIVER, LAWRENCE, LOWELL, MALDEN, NEW BEDFORD, SOMERVILLE, SPRINGFIELD, WINTHROP OR WORCESTER)/ WITHIN A FLOODPLAIN.
 - ENVIRONMENTAL PERMIT AND/OR THE USE OF ENVIRONMENTAL BMPS MAY BE REQUIRED. SEE ENVIRONMENTAL MEMO FOR DETAILS.

SAFETY:

- WORK SHALL CONFORM TO THE NATIONAL GRID EMPLOYEE SAFETY HANDBOOK AND OSHA REQUIREMENTS.
- REQUIRED PPE SHALL BE WORN AND UTILIZED IN ACCORDANCE WITH THE CURRENT NATIONAL GRID SAFETY POLICY.
- A NATIONAL GRID APPROVED CONTRACTOR HEALTH AND SAFETY PLAN (HASP) IS REQUIRED PRIOR TO CONSTRUCTION.
- CONSTRUCTION SIGNING, DRUMS, BARRICADES, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.) PART VI AND SHALL BE MAINTAINED BY THE CONTRACTOR.
- NATIONAL GRID SAFETY PROCEDURES COVER THE FOLLOWING CATEGORIES:
 - A- ADMINISTRATIVE; B- INSPECTIONS; C- WALKING WORKING SURFACES; D- MEANS OF EGRESS; E- MATERIAL HANDLING AND STORAGE; F- TOXIC AND HAZARDOUS SUBSTANCES; G- HAZARDOUS MATERIALS; H- PERSONAL PROTECTIVE EQUIPMENT; I- GENERAL ENVIRONMENTAL CONTROLS; J- ACCIDENT INVESTIGATION; K- MACHINERY AND GUARDING; L- WELDING/CUTTING/BRAZING; M- EXCAVATIONS; N- CONTRACTORS; FIRE PROTECTION; Q- FLEET AND ROADWAY SAFETY
- GAS WORK METHODS SAFETY PROCEDURES INCLUDE:
 - SHE01001: GENERAL SAFETY REQUIREMENTS
 - SHE01002: SUPPLIED-AIR RESPIRATORS
 - SHE01003: USING AND MAINTAINING PORTABLE GAS MONITORS
 - SHE01004: USING AND MAINTAINING FLAME IONIZATION UNITS
 - SHE01005: DISSIPATING STATIC ELECTRICAL CHARGES ON PLASTIC PIPE
 - SHE01006: ENTERING GAS UTILITY VAULTS
 - SHE01007: INTERNAL PIPE SEALING
 - SHE01008: USING AND MAINTAINING THE GAS EXPLORER
 - SHE01009: USING AND MAINTAINING THE HEATH INFRARED METHANE DETECTOR
 - SHE01010: THE APPLICATION OF FORMAL PROCESS SAFETY ASSESSMENTS TO HIGHER-RISK GAS ACTIVITIES PERFORMED IN THE FIELD
- ANY AND ALL WORKERS THAT HAVE ANY POTENTIAL TO COME INTO CONTACT WITH SOIL AND/OR GROUNDWATER MUST HAVE UP-TO-DATE OSHA 40-HOUR HAZWOPER TRAINING. COPIES OF OSHA CERTIFICATES/TRAINING REFRESHERS SHALL BE PROVIDED TO NATIONAL GRID FOR REVIEW PRIOR TO THE START OF WORK.

OTHER PERMITTING REQUIREMENTS:

- TOWN OF ARLINGTON STREET OPENING PERMIT

UTILITY OWNER INFORMATION:

SEWER:	ARLINGTON WATER & SEWER DIVISION #51 GROVE ST. ARLINGTON, MA 02476	GAS:	NATIONAL GRID GAS #170 DATA DR. WALTHAM, MA 02451
WATER:	ARLINGTON WATER & SEWER DIVISION #51 GROVE ST. ARLINGTON, MA 02476	TELEPHONE:	VERIZON #385 MYLES STANDISH BLVD. TAUNTON, MA 02780
ELECTRIC:	EVERSOURCE ELECTRIC "A" #1165 MASSACHUSETTS AVE. DORCHESTER, MA 02125	CABLE:	CROWN CASTLE #956 MASSACHUSETTS AVE. ARLINGTON, MA 02476
			ASTOUND #80 CENTRAL ST. BOXBOROUGH, MA 01719
			COMCAST CABLE CORPORATION P.O. BOX 6505, 5 OMNI WY. CHELMSFORD, MA 01824
			FIRSTLIGHT #359 CORPORATE DR. PORTSMOUTH, NH 03801
			EVERSOURCE FIBER #247 STATION DRIVE, MAIL STOP: SUM SE 320. WESTWOOD, MA 02090
			LIGHTPATH #100 QUANNAPOWITT PKWY. WAKEFIELD, MA 01880

REFERENCE DRAWINGS:

- LOCATION OF IDENTIFIED UNDERGROUND UTILITIES ARE AN APPROXIMATE BASED ON AVAILABLE RECORD AND FIELD INFORMATION IN ACCORDANCE WITH C/ASCE 38-02. ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT IDENTIFIED ON THESE PLANS. ALL EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR FOR SERVICE, SIZE, INVERT ELEVATIONS, LOCATIONS, ETC.

LEGEND

	EXISTING WROUGHT IRON GAS MAIN, VALVE, REGULATOR, CAP		EXISTING CENTERLINE W/ MARKER		EXISTING MBTA DUCTS		APPROXIMATE ROW/PROPERTY LINE
	EXISTING CAST IRON GAS MAIN, VALVE, REGULATOR, CAP		EXISTING FIBER OPTIC LINE, CABLE BOX		EXISTING UNKNOWN UTILITY		PROPOSED PERMANENT EASEMENT
	EXISTING BARE STEEL GAS MAIN, VALVE, REGULATOR, CAP		EXISTING OVERHEAD ELECTRIC LINE, POWERPOLE, POLE W/ GUYWIRE, LIGHT POLE		PROPOSED FIBER OPTIC LINE		EXISTING EASEMENT
	EXISTING COATED STEEL GAS MAIN, VALVE, REGULATOR, CAP		EXISTING UNDERGROUND ELECTRIC LINE, HANDHOLE, PEDESTAL, TRAFFIC LIGHT		PROPOSED OVERHEAD ELECTRIC LINE		EXISTING GUIDE RAIL
	EXISTING PLASTIC GAS MAIN, VALVE, REDUCER		EXISTING SANITARY SEWER LINE, CLEANOUT, MANHOLE		PROPOSED UNDERGROUND ELECTRIC LINE		EXISTING FENCE
	EXISTING POLYBUTYLENE GAS MAIN, VALVE, REDUCER		EXISTING STORM DRAIN/CULVERT, CATCH BASIN, MANHOLE		PROPOSED SANITARY SEWER LINE		EXISTING STONE WALL
	EXISTING CRITICAL GAS MAIN		EXISTING WATER MAIN, VALVE, HYDRANT		PROPOSED STORM DRAIN/CULVERT		EXISTING STREAM/RIVER EDGE
	PROPOSED GAS MAIN, VALVE, COUPLING, TEE, TAPPING TEE, OVER		EXISTING UNDERGROUND TELEPHONE		PROPOSED WATER MAIN		EXISTING WETLAND
	PROPOSED GAS MAIN UNDER SEPARATE W.O. VALVE, COUPLING, TEE, OVER		EXISTING MWRA WATER MAIN		PROPOSED UNDERGROUND TELEPHONE		EXISTING WETLAND BUFFER
	RETIRED GAS MAIN		PROPOSED MWRA WATER MAIN		TREE, BUSH, TREE LINE		EXISTING MAJOR CONTOUR
	NEW GAS SERVICE, FLOW LIMITER, METER, VALVE		EXISTING MWRA SEWER/DRAIN MAIN		RAILROAD		EXISTING MINOR CONTOUR
	EXISTING GAS SERVICE, FLOW LIMITER, METER, VALVE		PROPOSED MWRA SEWER/DRAIN MAIN		TOWN LINE		HAZARDOUS (HAZWOPER) AREA

BILL OF MATERIALS						
ITEM	QTY	UOM	DESCRIPTION	SIZE (IN.)	NATIONAL GRID REFERENCE	SAP ID NUMBER
1*	1360	FT	PIPE, 8 IN IPS, SDR 13.5, MDPE	8	120026-MS	9340862
2*	345	FT	PIPE, 6 IN IPS, SDR 11.5, MDPE	6	120026-MS	9340839
3*	225	FT	PIPE, 4 IN IPS, SDR 11.5, MDPE	4	120026-MS	9340857
4*	1	EA	CAP, 4 IN IPS, DR 11.5	4	CS-FIT010	9339534
5	1	EA	CAP, 6 IN, VENTED, SELF RESTRAINING BOLTED, COMPRESSION, FOR 6 IN CAST IRON, 6.90 IN OD	6	FITS-6024	9315169
6	1	EA	CAP, 6 IN, VENTED, SELF RESTRAINING BOLTED, COMPRESSION, FOR 6 IN CAST IRON, 7.10 IN O.D.	6	FITS-6024	9339511
7	2	EA	CAP, 6 INCH IPS, PLASTIC - ELECTROFUSION - HIGH DENSITY HDPE	6	CS-FIT015	9393581
8*	4	EA	CAP, 6 INCH IPS, SDR 11/11.5 BUTT FUSED PE2406	6	CS-FIT010	9339733
9	1	EA	CAP, 8 IN IPS SDR 13.5, BUTT FUSION PE 2406	8	CS-FIT010	9339559
10	1	EA	CAP, 8 IN IPS, PLASTIC - ELECTROFUSION - HIGH DENSITY HDPE	8	CS-FIT015	9393633
11	6	EA	COUPLING, 6 IN IPS ELECTROFUSION, PE 4710	6	CS-FIT015	9314592
12	1	EA	COUPLING, 6 IN IPS, RESTRAINING, INSULATED, BOLTED, C.I. X 6 IN STEEL/PE, 6.90 IN R.S.	6	FITS-6025	9312223
13	1	EA	COUPLING, 6 IN, SELF-RESTRAINING BOLTED, C.I. INSULATED X 6 IN STEEL/PE, C.I. TO STEEL/PE, 7.10 IN O.S.	6	FITS-6025	9341550
14	4	EA	COUPLING, 8 IN IPS ELECTROFUSION	8	CS-FIT015	9314591
15*	3	EA	ELBOW, 6 INCH IPS, BUTT, MD PE 2406, 45 DEGREE, DR 11.5	6	CS-FIT011	9341401
16*	6	EA	ELBOW, 8 INCH, 45 DEGREE, BUTT FUSION, SDR 13.5, PE 2406	8	CS-FIT011	9341402
17	6	EA	PLUG, 1 1/2 IN, THREADED, CAST IRON	1 1/2	120030-MS	9312285
18*	1	EA	REDUCER, 6 IN X 4 IN BUTT FUSE SDR11/11.5 PE 2406	6 X 4	CS-FIT013	9342678
19*	6	EA	REDUCER, 8 IN X 6 IN, PE 2406 MD, 8 INCH SDR 13.5 X 6 INCH SDR 11/11.5	8 X 6	CS-FIT013	9342616
20	6	EA	SADDLE, 6 IN X 1-1/2 IN NPT TAP, CAST IRON PIPE, INSULATED SINGLE STRAP, DUCTILE IRON BODY	6 X 1 1/2	CS-FIT014	9315632
21	1	EA	STIFFENER, 6 IN IPS, INSERT, METAL, FOR SDR 11.5 PIPE	6	FITS-6025	9340225
22*	5	EA	TEE, 8 IN IPS, DR 13.5, BUTT FUSION, MDPE	8	CS-FIT012	9342070
23	3	EA	VALVE BOX, 12 INCH. LOCKING COVER MARKED "GAS"	8	VALV6020	9307586
24*	1	EA	VALVE, 4 IN, PE 2406, FULL PORT SIDE WALL HOT TAP	4	VALV6020	9341709
25*	3	EA	VALVE, 6 IN FULL PORT DR 11.5, PE 2406	6	VALV6020	9323032
26	3	EA	VALVE, 8 IN FULL PORT - MEDIUM DENSITY YELLOW PE2406 SDR 13.5 WITH 18 INCH LONG PUPS	8	VALV6020	9386594
27*	1	EA	VALVE, BOX, 4 IN, FULL PORT PLASTIC VALVE	4	VALV6020	9339892
28*	3	EA	VALVE, BOX, 6 IN	6	VALV6020	9339893
29	1	EA	9X9 TEST STATION BOX	9 X 9	030026-CS	9339391
30	1	EA	TEST STATION COVER	9	030026-CS	9339797
31	1	EA	ANODE, MAGNESIUM, 17LB, HIGH POTENTIAL	30	120004-MS	9311183
32	A/R	EA	CARTRIDGE, CHARGE, THERMITE, STEEL		030036-CS	9381574
33	A/R	EA	WIRE #8 AWG STRANDED 600V SOFT INSULATION FOR CATHODIC PROTECTION TEST STATIONS		030036-CS	9307539
34	A/R	EA	CONNECTOR, SPLIT BOLT (#6 CABLE)		030036-CS	9331578
35	1930	FT	WIRE, TRACER, DIRECT BURY USE		CNST6061	9315005
36	2	EA	TAPE, YELLOW CAUTION, GAS MAIN, 1000' ROLL	6	CNST6060	9341904

* SOME QUANTITIES LABELED ON LAYOUT SHEETS

THE DDS COMPANIES
153 CORDAVILLE RD, SUITE 210
SOUTHBOROUGH, MA 01772
PHONE (781) 385-4644

BOSTON GAS COMPANY
d/b/a
nationalgrid
170 DATA DRIVE
WALTHAM, MA 02451

IFC

PE STAMP:
COMMONWEALTH OF MASSACHUSETTS
MARK E. PETROSKI
7/24/2024
CIVIL
NO. 54037
REGISTERED PROFESSIONAL ENGINEER

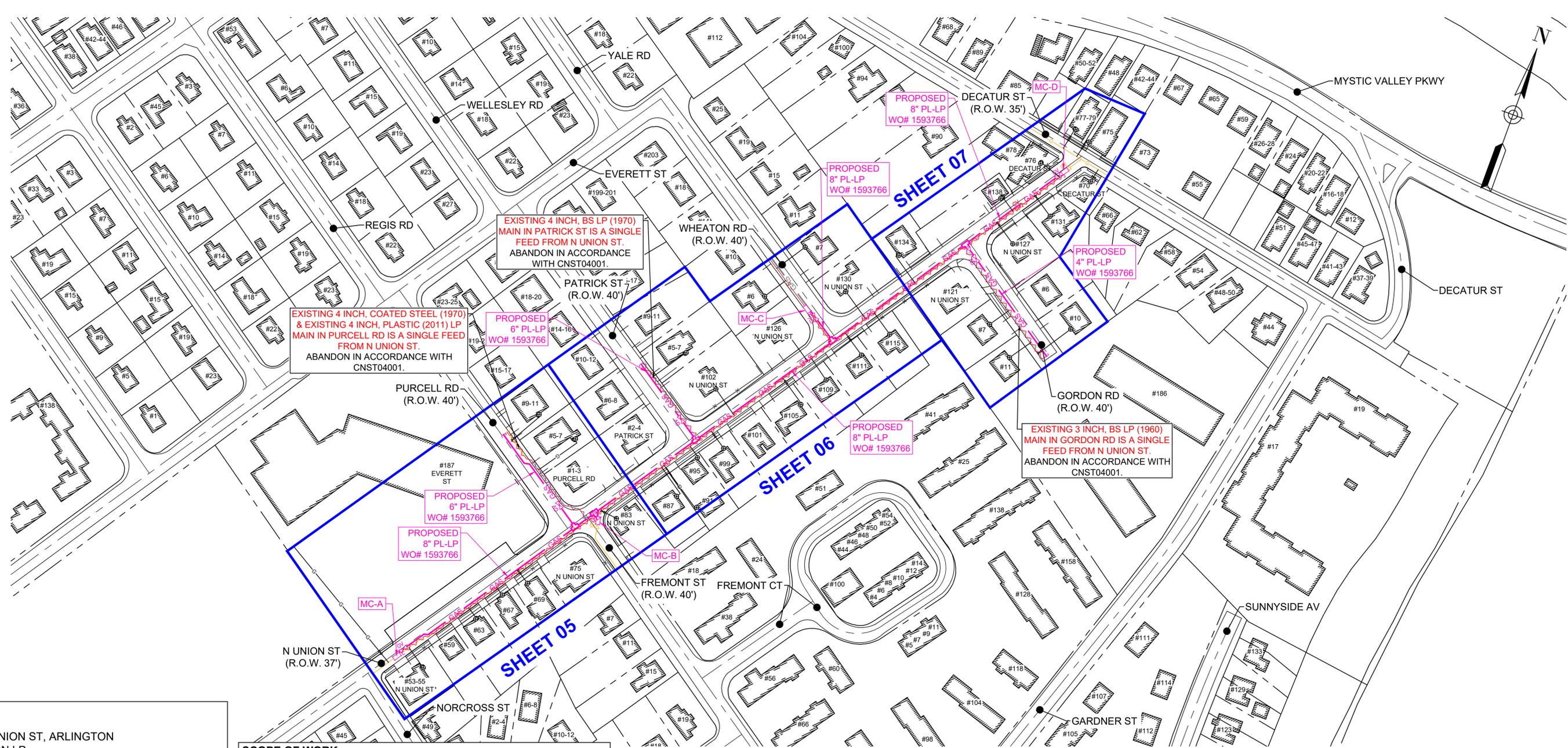
NO.	DESCRIPTION	DATE	DR BY	CK BY	APP BY
1	NG COMMENTS	07/24/2024	DTD	SDS	MEP
0	ISSUED FOR CONSTRUCTION	07/02/2024	DTD	DMJ	JSW

55-131 N UNION ST
GAS MAIN REPLACEMENT
N UNION ST, DECATUR ST, WHEATON RD, PATRICK ST, PURCELL RD
ARLINGTON, MA

CONSTRUCTION NOTES & BILL OF MATERIALS

DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	DDS COMPANIES	D. DUER	07/02/2024	XXXXXXXX	1593766

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DRAWING NO.	SHEET NO.
G-003	03



DESIGN PARAMETERS:

WO# 1593766 - 55-131 N UNION ST, ARLINGTON
 SYSTEM NUMBER: BOSTON LP
 SYSTEMS' MOPS (PSIG, OR "LP"): LP (0.5 PSIG)
 EXPECTED OPERATING PRESSURE RANGE: 4.5 INWC - 14 INWC
 DESIGN DAY TEMPERATURE (°F): 0°F
 MIN & MAX OPERATING TEMPERATURE RANGE (°F): -20°F TO +73°F
 STREET NAME: N UNION ST & WHEATON RD
 SIZING RECOMMENDATION: 8IN PL
 DESIGN DAY FLOW IN NEW PIPELINE SEGMENTS (MCFH): 12
 SINGLE FEED SYSTEM: NO
 STREET NAME: PATRICK ST, PURCELL RD, & FREMONT ST
 SIZING RECOMMENDATION: 6IN PL
 DESIGN DAY FLOW IN NEW PIPELINE SEGMENTS (MCFH): 4.6
 SINGLE FEED SYSTEM: YES (PURCELL RD & PATRICK ST)
 STREET NAME: GORDON RD
 SIZING RECOMMENDATION: 4IN PL
 DESIGN DAY FLOW IN NEW PIPELINE SEGMENTS (MCFH): 0.1
 SINGLE FEED SYSTEM: YES
 REVIEWED BY: RICH LOGUE. REVIEW DATE: 05/21/2024

SCOPE OF WORK:

DUE TO PAVING BY THE TOWN OF ARLINGTON PWNONREIM RECOMMENDS THE REPLACEMENT OF APPROX.:

- 1205' OF 6" LP CI (1923) AND 40' OF 6" LP PL (2011-2023) GAS MAIN IN N. UNION ST FROM #55 TO JUST SHORT OF DECATUR ST WITH 1245' OF 8" LP PL
- 215' OF 3" LP BS (1960) GAS MAIN IN GORDON RD FROM N. UNION ST TO END OF MAIN WITH 215' OF 4" LP PL
- 30' OF 6" LP CI (1949) GAS MAIN IN WHEATON RD WITH 30' OF 8" LP PL
- 150' OF 4" LP BS (1970) GAS MAIN IN PATRICK ST FROM N. UNION ST TO #7 PATRICK ST WITH 150' OF 6" LP PL
- 130' OF 4" LP CS (1970) (DARL0033) AND 60' OF 4" LP PL (2011) GAS MAIN IN PURCELL RD FROM N. UNION ST TO #9 PURCELL RD WITH 190' OF 6" LP PL
- CONNECT TO EXISTING 6" LP PL (2023) GAS MAIN IN FREEMONT ST

MAIN CONNECTION (MC) IDENTIFICATION LEGEND

PE DESIGN	SOP
MC-A	
MC-B	
MC-C	
MC-D	

SINGLE FEED SYSTEM: WHERE REQUIRED, THE CONTRACTOR SHALL INSTALL A TEMPORARY BYPASS TO MAINTAIN CONTINUOUS SERVICE TO CUSTOMERS IN ACCORDANCE WITH CS-LIVE002. ALL TEMPORARY BYPASS REQUIREMENTS SHALL BE DESIGNED BY OPERATIONS ENGINEERING AND INCLUDED AS PART OF THE SOP.

FOR CONSTRUCTION RELATED QUESTIONS & COORDINATION, CONTACT TOWN OF ARLINGTON:

WAYNE CHOUINARD, TOWN ENGINEER
 DPW ENGINEERING
 51 GROVE STREET
 ARLINGTON, MA 02476
 (781) 316-3320
 WCHOUINARD@TOWN.ARLINGTON.MA.US



NO.	DESCRIPTION	DATE	DR.BY	CK.BY	APP BY
1	NG COMMENTS	07/24/2024	DTD	SDS	MEP
0	ISSUED FOR CONSTRUCTION	07/02/2024	DTD	DMJ	JSW

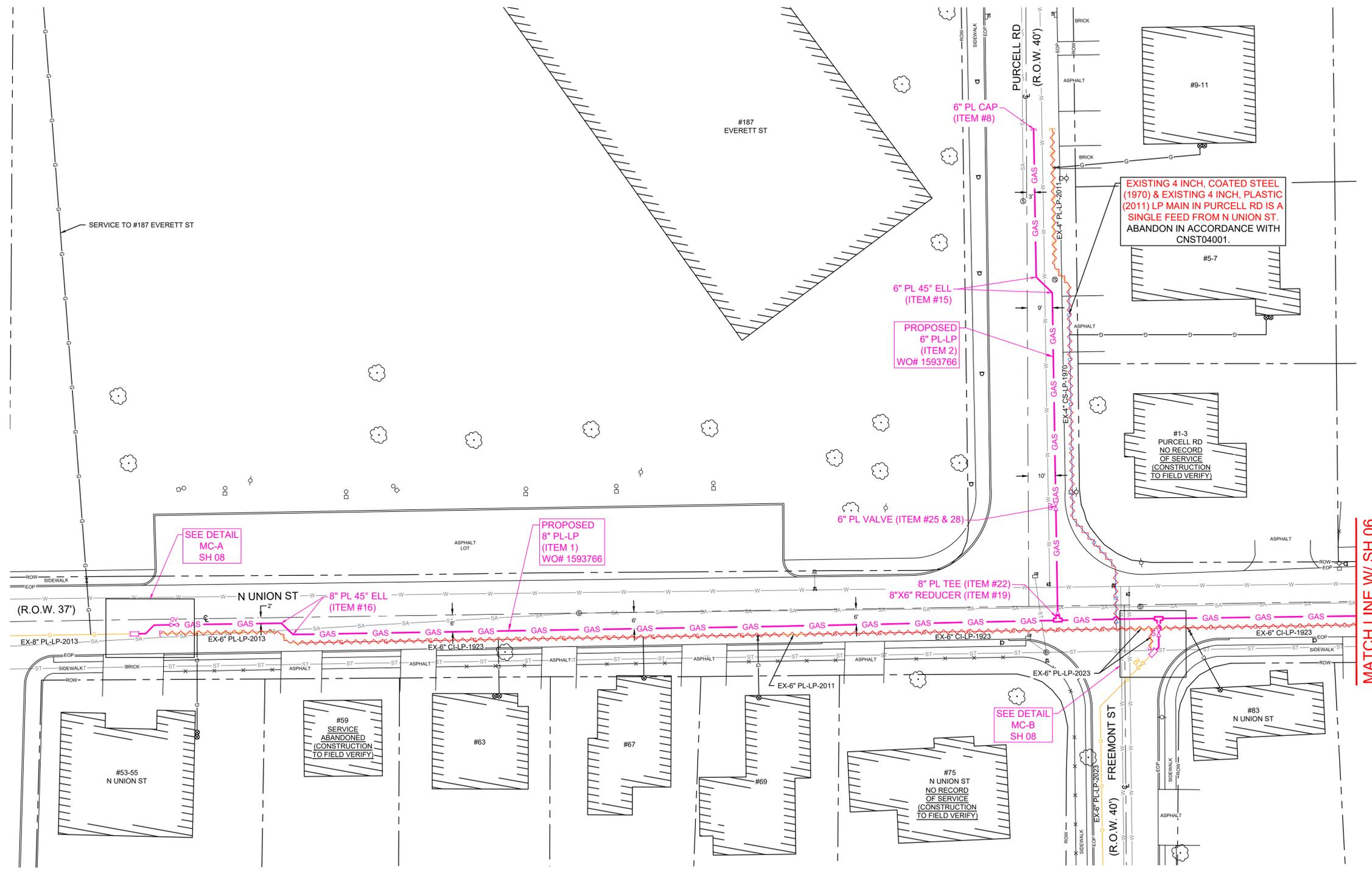
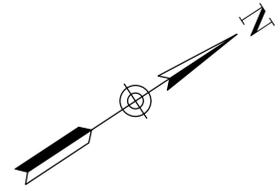
55-131 N UNION ST
 GAS MAIN REPLACEMENT
 N UNION ST, DECATUR ST, WHEATON RD, PATRICK ST, PURCELL RD
 ARLINGTON, MA

OVERALL SCOPE OF WORK

DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	DDS COMPANIES	D. DUER	07/02/2024	XXXXXXXX	1593766

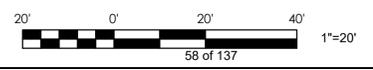
PAGE 04 OF 12

DRAWING NO.	SHEET NO.
C-001	04



NOTE:
 1. REFER TO SHEET G-003 FOR BILL OF MATERIALS, ITEM NUMBER, PART DESCRIPTIONS AND LEGEND.

SINGLE FEED SYSTEM: WHERE REQUIRED, THE CONTRACTOR SHALL INSTALL A TEMPORARY BYPASS TO MAINTAIN CONTINUOUS SERVICE TO CUSTOMERS IN ACCORDANCE WITH CS-LIVE002. ALL TEMPORARY BYPASS REQUIREMENTS SHALL BE DESIGNED BY OPERATIONS ENGINEERING AND INCLUDED AS PART OF THE SOP.



THE DDS COMPANIES
 153 CORDAVILLE RD, SUITE 210
 SOUTHBOROUGH, MA 01772
 PHONE (781) 385-4644

BOSTON GAS COMPANY
 a/b/a
nationalgrid
 170 DATA DRIVE
 WALTHAM, MA 02451

IFC

PE STAMP:
 COMMONWEALTH OF MASSACHUSETTS
 MARK E. PETROSKI
 7/24/2024
 CIVIL
 NO. 54037
 REGISTERED PROFESSIONAL ENGINEER

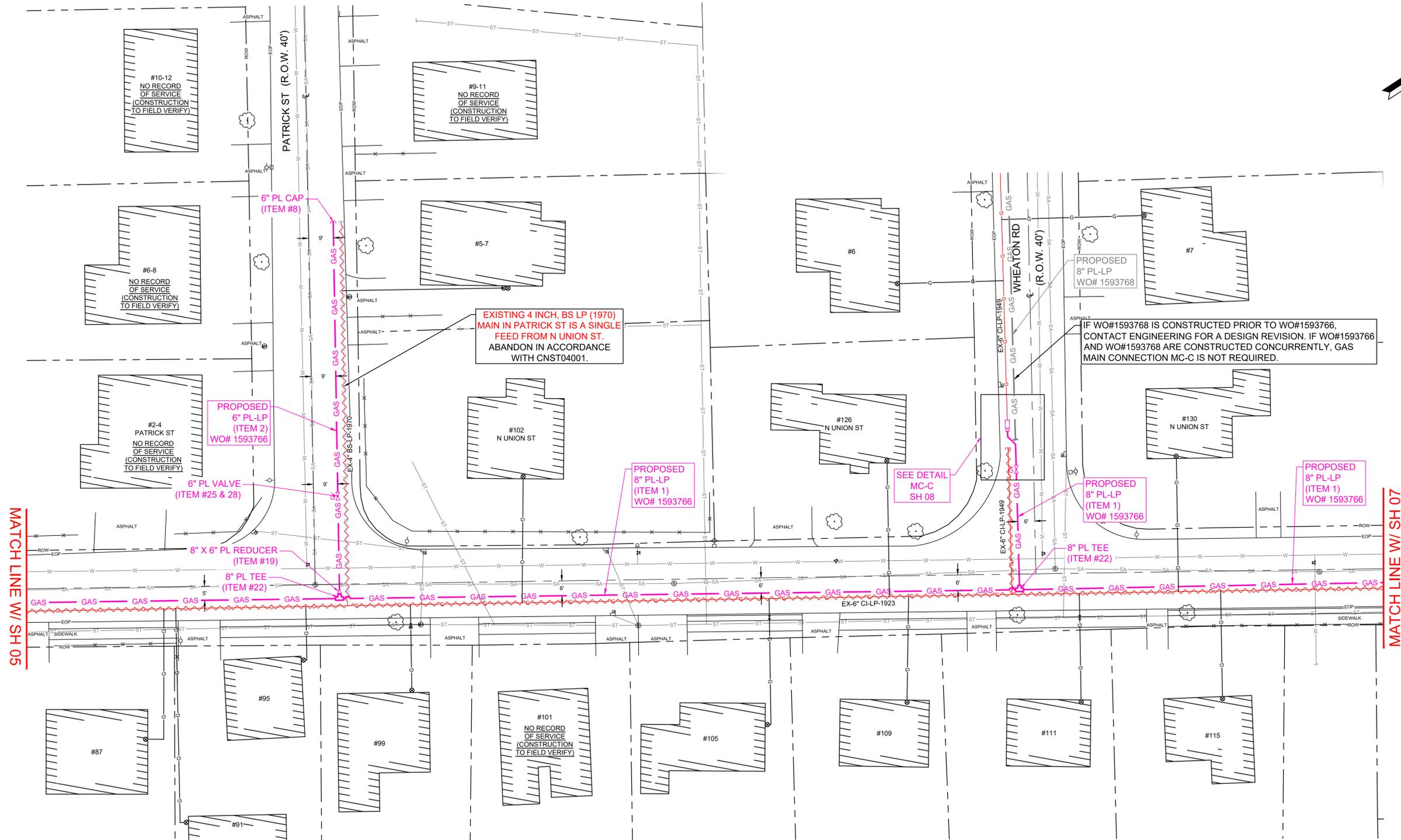
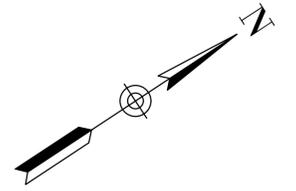
NO.	DESCRIPTION	DATE	DR.BY	CK.BY	APP.BY
1	NG COMMENTS	07/24/2024	DTD	SDS	MEP
0	ISSUED FOR CONSTRUCTION	07/02/2024	DTD	DMJ	JSW

55-131 N UNION ST
 GAS MAIN REPLACEMENT
 N UNION ST, DECATUR ST, GORDON RD, WHEATON RD, PATRICK ST, PURCELL RD
 ARLINGTON, MA

LAYOUT SHEET

DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	DDS COMPANIES	D. DUER	07/02/2024	XXXXXXXX	1593766

PAGE 05 OF 12	
DRAWING NO.	SHEET NO.
C-002	05



MATCH LINE W/ SH 05

MATCH LINE W/ SH 07

NOTE:
 1. REFER TO SHEET G-003 FOR BILL OF MATERIALS, ITEM NUMBER, PART DESCRIPTIONS AND LEGEND.

SINGLE FEED SYSTEM: WHERE REQUIRED, THE CONTRACTOR SHALL INSTALL A TEMPORARY BYPASS TO MAINTAIN CONTINUOUS SERVICE TO CUSTOMERS IN ACCORDANCE WITH CS-LIVE002. ALL TEMPORARY BYPASS REQUIREMENTS SHALL BE DESIGNED BY OPERATIONS ENGINEERING AND INCLUDED AS PART OF THE SOP.



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 SOUTHBOROUGH, MA 01772
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1	NG COMMENTS	07/24/2024	DTD	SDS	MEP
0	ISSUED FOR CONSTRUCTION	07/02/2024	DTD	DMJ	JSW

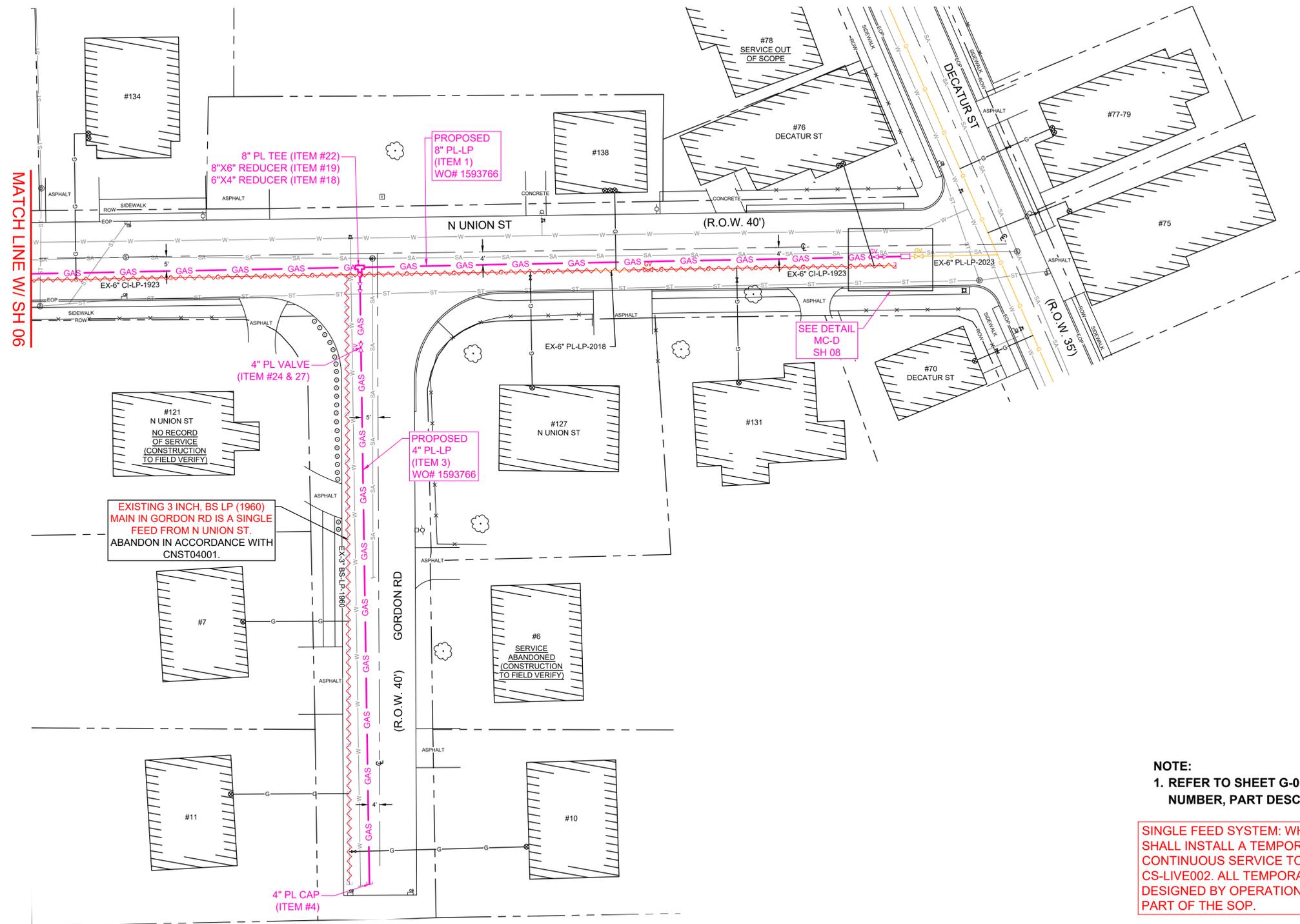
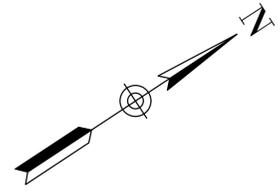
55-131 N UNION ST
 GAS MAIN REPLACEMENT
 N UNION ST, DECATUR ST, WHEATON RD, PATRICK ST, PURCELL RD
 ARLINGTON, MA

LAYOUT SHEET

DWG SIZE	DESIGNER	ENGINEER	DATE	ASSET I.D.	W.O. NO.:
22"X34"	DDS COMPANIES	D. DUER	07/02/2024	XXXXXXXX	1593766

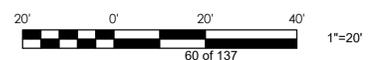
PAGE 06 OF 12

DRAWING NO.	SHEET NO.
C-003	06



NOTE:
1. REFER TO SHEET G-003 FOR BILL OF MATERIALS, ITEM NUMBER, PART DESCRIPTIONS AND LEGEND.

SINGLE FEED SYSTEM: WHERE REQUIRED, THE CONTRACTOR SHALL INSTALL A TEMPORARY BYPASS TO MAINTAIN CONTINUOUS SERVICE TO CUSTOMERS IN ACCORDANCE WITH CS-LIVE002. ALL TEMPORARY BYPASS REQUIREMENTS SHALL BE DESIGNED BY OPERATIONS ENGINEERING AND INCLUDED AS PART OF THE SOP.



THE DDS COMPANIES
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 170 DATA DRIVE
 WALTHAM, MA 02451

IFC

PE STAMP:
 COMMONWEALTH OF MASSACHUSETTS
 MARK E. PETROSKI
 7/24/2024
 CIVIL
 NO. 54037
 REGISTERED PROFESSIONAL ENGINEER

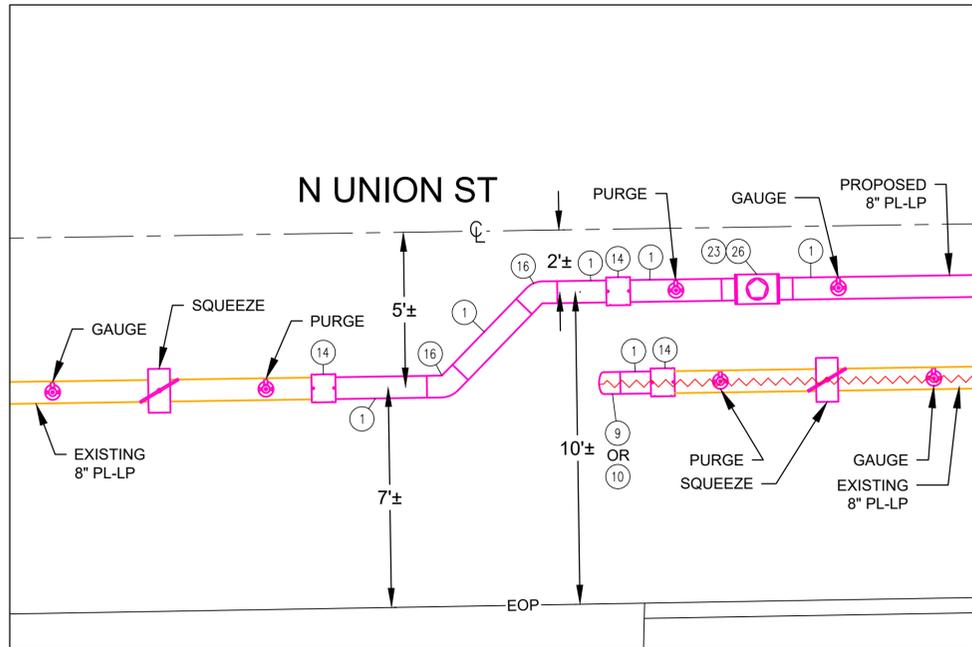
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0	ISSUED FOR CONSTRUCTION	07/02/2024	DTD	DMJ	JSW

55-131 N UNION ST
 GAS MAIN REPLACEMENT
 N UNION ST, DECATUR ST, GORDON RD, WHEATON RD, PATRICK ST, PURCELL RD
 ARLINGTON, MA

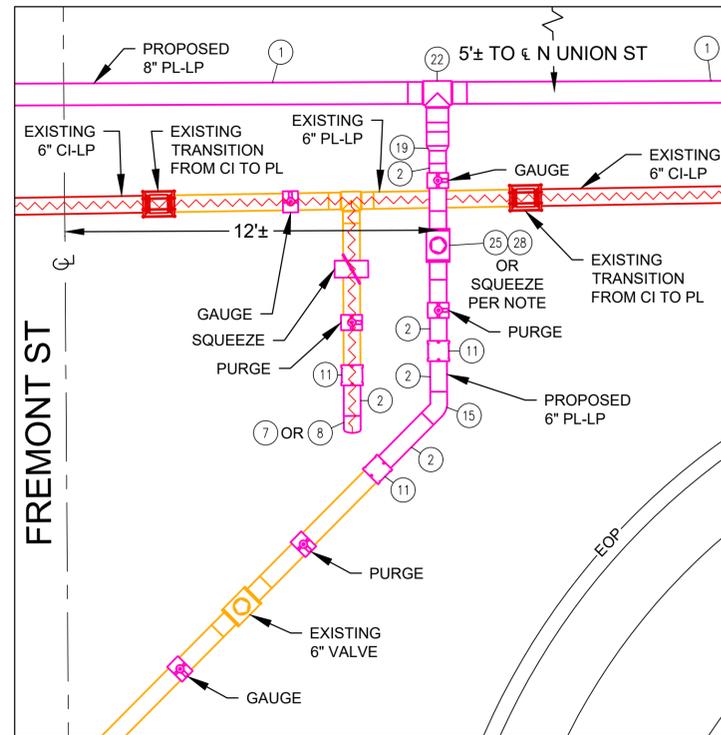
LAYOUT SHEET

DWG SIZE	DESIGNER	ENGINEER	DATE	ASSET I.D.	W.O. NO.:
22"X34"	DDS COMPANIES	D. DUER	07/02/2024	XXXXXXXX	1593766

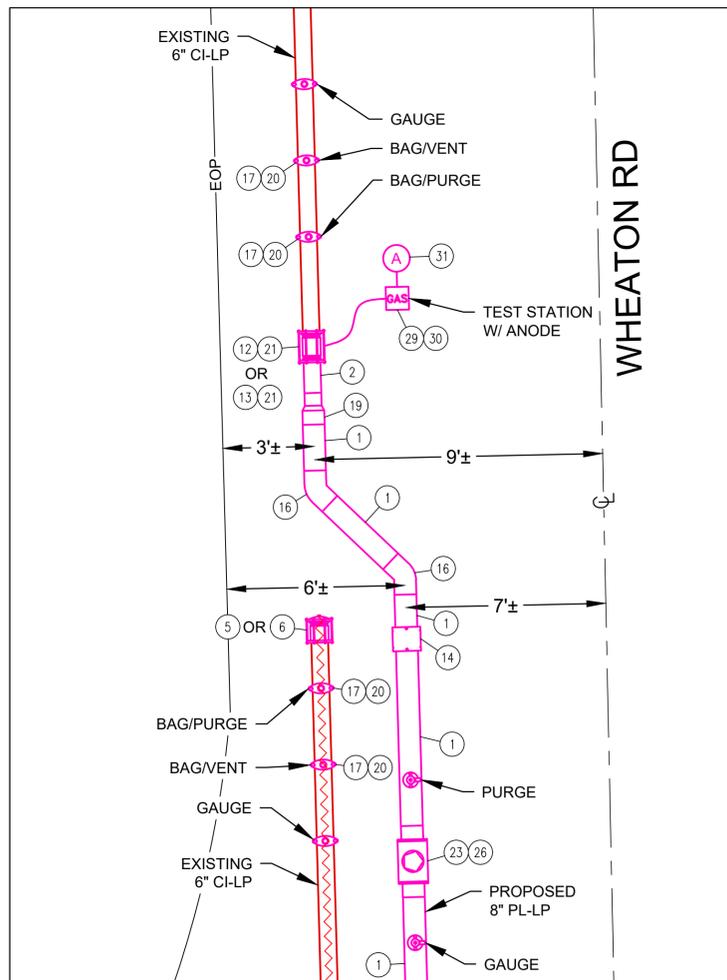
PAGE 07 OF 12	
DRAWING NO.	SHEET NO.
C-004	07



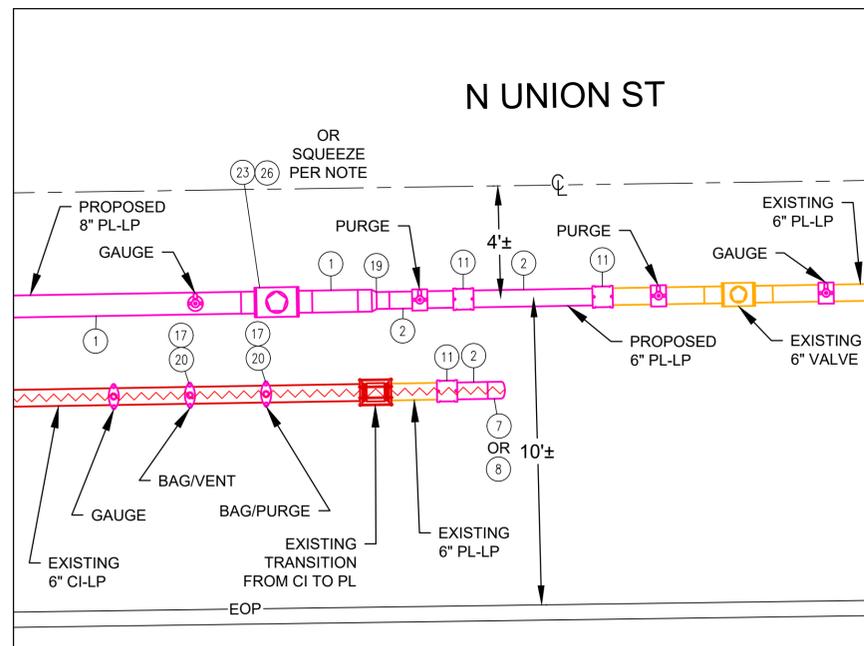
DETAIL: MC-A
(N UNION ST)
SCALE - 1:3
NOTE(S): 1 & 4



DETAIL: MC-B
(N UNION ST & FREMONT ST)
SCALE - 1:3
NOTE(S): 1, 2 & 4



DETAIL: MC-C
(WHEATON RD & N UNION ST)
SCALE - 1:3
NOTE(S): 3 & 5



DETAIL: MC-D
(N UNION ST & DECATUR ST)
SCALE - 1:3
NOTE(S): 1 & 2

NOTE:

1. ELECTROFUSION CAPS (ITEM #7 & #10) CAN BE USED AS ALTERNATE TO BUTT FUSE CAPS (ITEM #8 & #9) WITH ELECTROFUSION COUPLINGS (ITEM #11 & #14). SIZES TO MATCH.
2. PROPOSED PL VALVE NOT REQUIRED TO BE INSTALLED IF EXISTING VALVE IS OPERATING TO NATIONAL GRID'S STANDARDS. IF THE EXISTING VALVE IS NOT OPERATING TO NATIONAL GRID'S STANDARDS, ABANDON AND REPLACE IN ACCORDANCE WITH CNST04011. USE EXISTING VALVE FOR ISOLATION AND SQUEEZE OFF IN ACCORDANCE WITH CNST03001 OR STOP OFF IN ACCORDANCE WITH CNST03002.
3. INSTALL A 1-WIRE TEST STATION TO THE PROPOSED INSULATED COUPLING (PIPE END SPACER AND INSULATOR SLEEVE FACING THE CAST IRON) BY USING THE CLIP ON THE COUPLING. INCLUDE 1-17 LB ANODE SPACED AT LEAST 1 FT BELOW THE MAIN. INSTALL THE 9X9 TEST STATION IN AN ACCESSIBLE LOCATION.
4. STOP OFF METHODS CONTAINED IN CNST03002: STOP OFF OPERATIONS ON LOW PRESSURE MAINS, MAY BE USED IN PLACE OF SQUEEZE OFFS.
5. IF WO#1593768 IS CONSTRUCTED PRIOR TO WO#1593766, CONTACT ENGINEERING FOR A DESIGN REVISION. IF WO#1593766 & WO#1593768 ARE CONSTRUCTED CONCURRENTLY, GAS MAIN CONNECTION MC-C IS NOT REQUIRED.



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170 DATA DRIVE
WALTHAM, MA 02451

IFC

PE STAMP:
COMMONWEALTH OF MASSACHUSETTS
MARK E. PETROSKI
7/24/2024
CIVIL
NO. 54037
REGISTERED PROFESSIONAL ENGINEER

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0	ISSUED FOR CONSTRUCTION	07/02/2024	DTD	DMJ	JSW

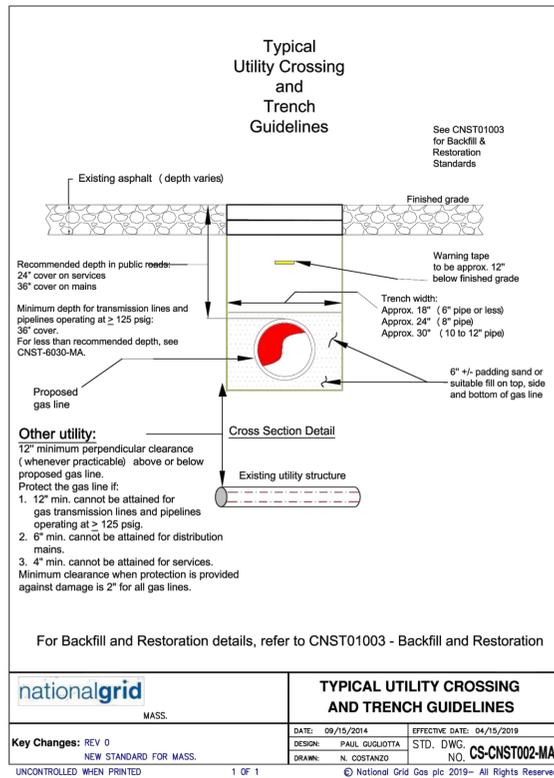
55-131 N UNION ST
GAS MAIN REPLACEMENT
N UNION ST, DECATUR ST, WHEATON RD, PATRICK ST, PURCELL RD
ARLINGTON, MA

TIE-IN & ABANDONMENT DETAILS

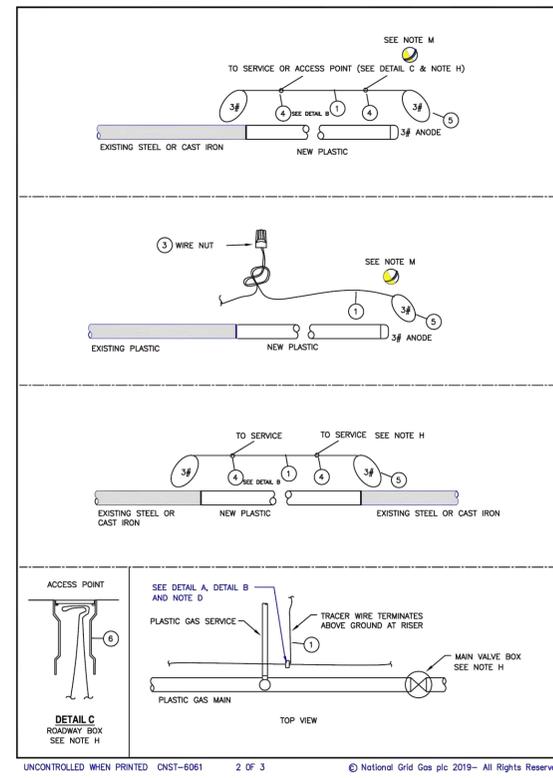
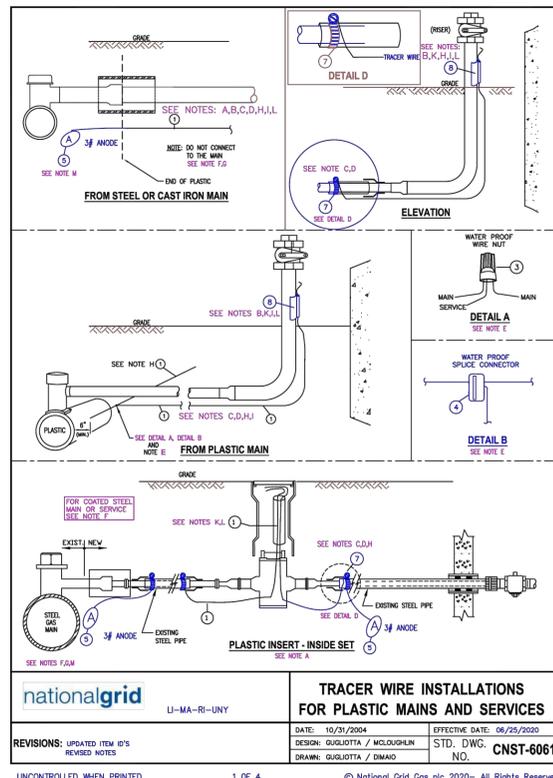
DWG SIZE	DESIGNER	ENGINEER	DATE	ASSET I.D.	W.O. NO.:
22"X34"	DDS COMPANIES	D. DUER	07/02/2024	XXXXXXXX	1593766

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DRAWING NO.	SHEET NO.
C-101	08



nationalgrid		TYPICAL UTILITY CROSSING AND TRENCH GUIDELINES	
MASS.			
DATE: 09/15/2014	EFFECTIVE DATE: 04/15/2019	DESIGN: PAUL GUGLIOTTA	STD. DWG. NO. CS-CNST002-MA
DRAWN: N. COSTANZO			
KEY CHANGES: REV 0			
NEW STANDARD FOR MASS.			
UNCONTROLLED WHEN PRINTED	1 OF 1	© National Grid Gas plc 2019 - All Rights Reserved	



NO.	ITEM	BILL OF MATERIAL	SAP ITEM ID
8	TRACER WIRE SNAP, 2" (represents steel size)	9308134	9308134
8	TRACER WIRE SNAP, 1 1/2" (represents steel size)	9308156	9308156
8	TRACER WIRE SNAP, 1" (represents steel size)	9308150	9308150
8	TRACER WIRE SNAP, 3/4" (represents steel size)	9308568	9308568
7	CLAMP, STAINLESS	9317708	9307873
6	VALVE BOX, ROADWAY	9339890	9312344 UNY 9312038 RI
5	ANODE, 5 LB MAGNESIUM	9315645	9315645
4	WIRE SERVICE CONNECTOR, WATERPROOF	9308038	9308038
3	WIRE NUT, PLASTIC, WATERPROOF	9313644	9314631
2	WIRE, DIRECTIONAL DRILL, STAINLESS, STRANDED 10 AWG	9314187	9314187
1	TRACER WIRE, DIRECT BURY, COPPER, 12 AWG	9315005	9315005

A. Inside sets: Terminate tracer wire in the curb valve box. Allow enough wire to extend 18" to 24" above grade.

B. Outside Sets: Tracer wire should be extended approximately 18" above grade at riser. Connect tracer wire to the riser using a "tracer snap", item #8. If the appropriate tracer snap is not available, wrap or tie the tracer wire to the riser. Do not permanently attach tracer wire to the riser. Tracer wire should not exceed 6" above the point where it is secured to the riser.

C. Partially tubed services: When the abandoned portion of an existing steel service pipe is used as a sleeve for the new plastic, all cut end sections of the steel pipe to be inserted with steel, shall be connected using a section of tracer wire to maintain continuity. If the existing service is coated steel, see [Installation of Test Stations for Cathodic Protection \[030026-CS\]](#) and [Installation of Test Stations for Cathodic Protection \[COR4003\]](#) or contact corrosion department for more guidance.

D. Thermite welding of tracer wire to abandoned steel service is only acceptable prior to insertion of the plastic tubing. See [Installation of Test Stations for Cathodic Protection \[030026-CS\]](#).

E. Plastic Mains: The service tracer wire shall be connected to the plastic main tracer wire using item #3 detail A or item #4 (detail B - preferred) in accordance with [Installing Wire Connections \[COR4004\]](#).

F. Coated Steel Mains: Do not connect the tracer wire to the steel main. See [Installation of Test Stations for Cathodic Protection \[030026-CS\]](#) and [Installation of Test Stations for Cathodic Protection \[COR4003\]](#) or contact corrosion department for more guidance.

G. Cast Iron or Bare steel Mains: Do not connect the tracer wire to the main. It is required in LI and MA, and suggested in all other areas to terminate the tracing wire with a 3# anode.

Tracer Wire Installation Notes

H. Install tracer wire in close proximity to the plastic pipe. Approximately 4" to 6" away from the pipe. LI & MA - Above or alongside, UNY - alongside, RI - Under or alongside. Exception: For trenchless pipe installations, the minimum clearance is waived.

I. Maintain separation of approximately 4" from service riser. Do not permanently connect the tracer wire to the riser.

J. For horizontal directional drill installations, use stainless wire, item #2.

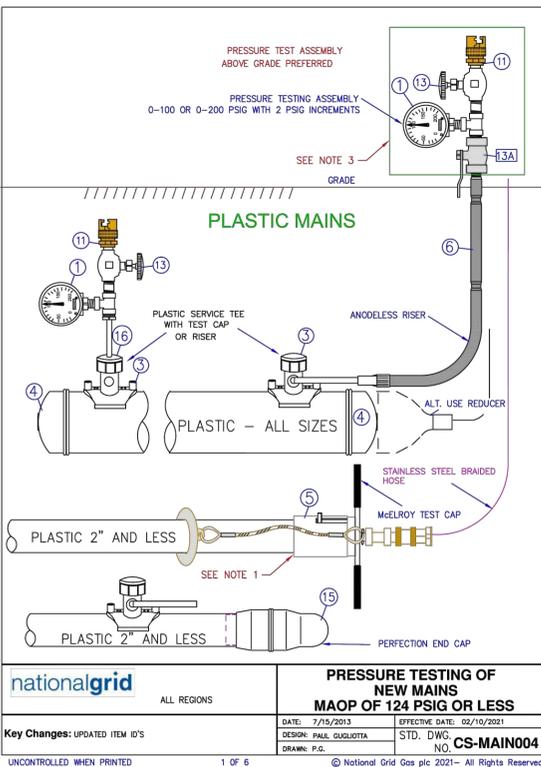
K. Tracer wire installed in boxes should allow enough wire to extend 18" to 24" above grade.

L. Verification: upon completion, the installer shall verify the location of the main or service using the tracer wire and locating device and perform a mark out using the conductive method.

M. LI and MA: Required to terminate the tracing wire with a 3# anode. This is to ground the tracer wire and increase signal strength when locating. This practice is recommended in all areas where signal strength is an issue.

Regional Notes

NYC ONLY: refer to [Installation of Marker Tapes and EMS Pipeline Locators for Mains and Services \[CNST6060-NYC\]](#) for installation of electronic marker ball in place of tracer wire.



NOTES:

- INSTALL PER MCELROY MANUFACTURER'S INSTRUCTIONS.
- WHEN USING MECHANICAL COUPLINGS (AS SHOWN IN DETAIL A), NON-RESTRAINING COUPLING SHALL BE STRAPPED AND THE ENDS SHALL BE BLOCKED PER APPROVED STANDARD DRAWINGS. RESTRAINING COUPLINGS NEED TO BE EITHER STRAPPED OR BLOCKED. WHEN USING RESTRAINING COUPLINGS, STRAPPING NUTS SHOULD BE HAND TIGHT.
- ON EXISTING STEEL SYSTEMS, REFER TO THE TABLE BELOW FOR THE MINIMUM SAFE DISTANCE FROM THE EXCAVATION WALL. IF A BURIED UNSTRAPPED COUPLING EXISTS AT A DISTANCE LESS THAN THE MINIMUM SAFE EMBEDEDMENT DISTANCE FROM THE WALL, THEN BLOCKING IS REQUIRED FOR THE PRESSURE TEST. IF AN ALL WELDED SYSTEM CAN NOT BE CONFIRMED, THE WELDED OR FLANGED ENDS SHALL BE BLOCKED.

PIPE SIZE (INCHES)	MINIMUM SAFE DISTANCE FROM THE EXCAVATION WALL (FEET)
2	5
3	6
4	12
6	24
8	41
12	70

REFER TO CONSTRUCTION STANDARD FITS-6025 AND FITS-6015 FOR LIST OF COUPLINGS.

- IT IS RECOMMENDED THAT THE GAUGE ASSEMBLY BE ABOVE GRADE TO PREVENT PERSONNEL FROM ENTERING THE TRENCH WHILE THE PRESSURE TEST IS UNDERWAY.
- ONE PRESSURE TEST GAUGE AT EACH PIPE END IS RECOMMENDED TO VERIFY THE PRESSURE. ALL GAUGES SHALL BE 0-100 OR 0-200 PSIG RANGE (2 PSIG INCREMENTS RECD IN NY STATE ONLY).
- REFER TO CNST0403 'PRESSURE TESTING OF MAINS OPERATING BELOW 125 PSIG' FOR TESTING AND DESIGN REQUIREMENTS.

ITEM	DESCRIPTION	SAP ITEM ID LI/MA/NYC	SAP ITEMS RI AND UNY	TOOL ITEM
1	PRESSURE GAUGE 0-100 OR 0-200 PSIG - 2 PSI INCREMENTS	9354885	TP-309	TOOL ITEM
	0-200 PSIG STAINLESS STEEL 1/2" NPT 1-1/2" DIAL	9358390	TP-310	TOOL ITEM
	0-100 PSIG STAINLESS STEEL 1/2" NPT	NON STOCK	TP-310	TOOL ITEM
2	SIGN - WARNING PRESSURE TEST (AS REQUIRED IN FIELD)	9332240		NON STOCK
3	TEE SERVICE - ELECTROFUSION YELLOW MD 1/2" CTS BUTT FUSE OUTLET	9342517 2X1/2	NON STOCK	NON STOCK
	2" MAIN X 1/2" BUTT FUSE OUTLET LIMANN/NYC	9342518 4X1/2	NON STOCK	NON STOCK
	4" MAIN X 1/2" BUTT FUSE OUTLET LIMANN/NYC	9342519 8X1/2	NON STOCK	NON STOCK
	6" MAIN X 1/2" BUTT FUSE OUTLET LIMANN/NYC	9342521 8X1/2	NON STOCK	NON STOCK
	8" MAIN X 1/2" BUTT FUSE OUTLET LIMANN/NYC	9342522 8X1	NON STOCK	NON STOCK
	12" MAIN X 1/2" BUTT FUSE OUTLET LIMANN/NYC	9342523 8X1	NON STOCK	NON STOCK
	TEE SERVICE - ELECTROFUSION YELLOW MD 1" CTS BUTT FUSE OUTLET	9342532 1-1/4 X 1	NON STOCK	NON STOCK
	1-1/4" MAIN X 1" OUTLET LI	9342538 2X1	NON STOCK	NON STOCK
	2" MAIN X 1" OUTLET LI	9342521 4X1	NON STOCK	NON STOCK
	4" MAIN X 1" OUTLET LI	9342528 8X1	NON STOCK	NON STOCK
	6" MAIN X 1" OUTLET LI	9342532 8X1	NON STOCK	NON STOCK
	8" MAIN X 1" OUTLET LI	9342532 8X1	NON STOCK	NON STOCK
	12" MAIN X 1" OUTLET LI	9351831 12X1	NON STOCK	NON STOCK
	TEE SERVICE - ELECTROFUSION BLACK HD 1" IPS BUTT FUSE OUTLET	9322653 2X1	NON STOCK	NON STOCK
	2" MAIN X 1" IPS OUTLET MASS	9322628 3X1	NON STOCK	NON STOCK
	3" MAIN X 1" IPS OUTLET MASS	9322620 4X1	NON STOCK	NON STOCK
	4" MAIN X 1" IPS OUTLET MASS	9322628 6X1	NON STOCK	NON STOCK
	6" MAIN X 1" IPS OUTLET MASS	9322497 8X1	NON STOCK	NON STOCK
	8" MAIN X 1" IPS OUTLET MASS	9351831 12X1	NON STOCK	NON STOCK
	12" MAIN X 1" IPS OUTLET LI, NYC, MA			
	TEE SERVICE - SADDLE FUSION HIGH DENSITY BLACK 1/2" CTS BUTT FUSE	9342405 2X1/2	NON STOCK	NON STOCK
	2" MAIN X 1/2" OUTLET LI	9342408 4X1/2	NON STOCK	NON STOCK
	4" MAIN X 1/2" OUTLET LI	9342407 8X1/2	NON STOCK	NON STOCK
	6" MAIN X 1/2" OUTLET LI	9342408 8X1/2	NON STOCK	NON STOCK
	8" MAIN X 1/2" OUTLET LI			
	12" MAIN X 1/2" OUTLET LI			
	TEE SERVICE - SADDLE FUSION HIGH DENSITY BLACK 1" CTS BUTT FUSE	9342409 2X1 SDR 9	9315907 2X1	NON STOCK
	2" MAIN X 1" OUTLET LI	9342429 4X1 SDR 9	9315964 4X1	NON STOCK
	4" MAIN X 1" OUTLET LI	9342430 8X1 SDR 9	9315964 8X1	NON STOCK
	6" MAIN X 1" OUTLET LI	9342431 8X1 SDR 9	9315962 8X1	NON STOCK
	8" MAIN X 1" OUTLET LI	9342431 8X1 SDR 9	9315962 8X1	NON STOCK
	12" MAIN X 1" OUTLET LI	9314629 12X1	9315492 2X1	NON STOCK
	TEE SERVICE - MECHANICAL X PERFECTION OUTLET	NON STOCK	9308584 2X1/2	NON STOCK
	2" MAIN X 1/2" OUTLET	NON STOCK	9308583 4X1/2	NON STOCK
	4" MAIN X 1/2" OUTLET	NON STOCK	9308472 8X1/2	NON STOCK
	6" MAIN X 1/2" OUTLET	NON STOCK	9308471 8X1/2	NON STOCK
	8" MAIN X 1/2" OUTLET	NON STOCK	9315492 2X1	NON STOCK
	12" MAIN X 1/2" OUTLET	NON STOCK	9308123 3X1	NON STOCK
	3" MAIN X 1" OUTLET	NON STOCK	9315490 4X1	NON STOCK
	4" MAIN X 1" OUTLET	NON STOCK	9308473 8X1	NON STOCK
	6" MAIN X 1" OUTLET	NON STOCK	9308178 8X1	NON STOCK
	8" MAIN X 1" OUTLET	NON STOCK		

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ITEM	DESCRIPTION	ORACLE ITEM ID LI/MA/NYC	PEOPLESOFT ITEM RI AND UNY
4	CAP END PLASTIC MEDIUM DENSITY YELLOW BUTT FUSE	2" SDR 9 9339540	NON STOCK
	2" SDR 11 9339541	NON STOCK	
	4" SDR 11 9339534	NON STOCK	
	6" SDR 11 9339533	NON STOCK	
	8" SDR 13.5 9339559	NON STOCK	
	12" SDR 11.5 9339560	NON STOCK	
	CAP END PLASTIC HIGH DENSITY BLACK BUTT FUSION	2" SDR 9 9339538	NON STOCK
	4" SDR 9 9339535	NON STOCK	
	6" SDR 9 9339538	NON STOCK	
	8" SDR 9 9339537	NON STOCK	
	2" SDR 11 MASS RI & UNY 9312686	NON STOCK	
	3" SDR 11 MASS RI & UNY 9310276	NON STOCK	
	4" SDR 11 MASS RI & UNY 9312685	NON STOCK	
	6" SDR 11 MASS RI & UNY 9312684	NON STOCK	
	8" SDR 11 MASS RI 9310272	NON STOCK	
	12" SDR 11 RI UNY 9308979	NON STOCK	
	6" SDR 13.5 RI 9312683	NON STOCK	
	12" SDR 13.5 RI 9314605	NON STOCK	
5	MCELROY TEST CAPS (165 PSIG MAX)	1-1/4" MODEL TP-309	NON STOCK
	2" MODEL TP-310	NON STOCK	
6	RISER	9344366	NON STOCK
	1" CTS MEDIUM DENSITY X 1/2" NPT OUTLET 9340674	NON STOCK	
	1" HIGH DENSITY X 1/2" NPT OUTLET 9340653	NON STOCK	
	1" CST SERVAVSET X 1" OUTLET 9322627	NON STOCK	
	1" CTS HIGH DENSITY .090" WALL X 1" IPS STEEL OUTLET 9318405	NON STOCK	
	1/2" CTS .090" WALL PERFECTION END X 3/4" NPT STEEL 9305180	NON STOCK	
	1-1/4" CTS .090" WALL PERFECTION END X 1-1/4" NPT STEEL 9305180	NON STOCK	
	OR TEST CAPS WITH STEEL OR PLASTIC PIPE TO TEST TEE TEST CAP FOR CENTRAL PLASTIC ELECTROFUSION TAPPING TEE	0031110 OR TOOL ROOM ITEM	TOOL ROOM ITEM
7	FLANGE 150# WELD END FLAT FACE	2" 9314322	NON STOCK
	3" 9314431	NON STOCK	
	4" 9314430	NON STOCK	
	6" 9308569	NON STOCK	
	8" 9308748	NON STOCK	
	10" 9308680	NON STOCK	
	16" 9322363	NON STOCK	
	20" 9322362	NON STOCK	
8	BLIND FLANGE CLASS 150# ASTM A-105	2" FLAT FACE WITH 1/2" CENTER NPT TAP 9341434	NON STOCK
	3" FLAT FACE WITH 1/2" CENTER NPT TAP 9341014	NON STOCK	
	4" FLAT FACE WITH 1/2" CENTER NPT TAP 9341435	NON STOCK	
	6" FLAT FACE WITH 1/2" CENTER NPT TAP 9340942	NON STOCK	
	2" FLAT FACE 9308682	NON STOCK	
	3" FLAT FACE 9307751	NON STOCK	
	4" FLAT FACE 9306252	NON STOCK	
	6" FLAT FACE 9305747	NON STOCK	
	8" FLAT FACE 9307750	NON STOCK	
	12" FLAT FACE 9308749	NON STOCK	
9	GASKETS	2" FULL FACE 150# 9333167	NON STOCK
	3" FULL FACE 150# 9341158	NON STOCK	
	4" FULL FACE 150# 9341259	NON STOCK	
	6" FULL FACE 150# 9332599	NON STOCK	
	8" FULL FACE 150# 9341168	NON STOCK	
	12" RING TYPE 150# 9341165	NON STOCK	

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ITEM	DESCRIPTION	ORACLE ITEM ID LI/MA/NYC	PEOPLESOFT ITEM RI AND UNY
10	END CAPS - STEEL WELD END STANDARD WALL - GRADE B	9312095	NON STOCK
	2" 9308719	NON STOCK	
	3" 9312096	NON STOCK	
	4" 9312094	NON STOCK	
	6" 9312093	NON STOCK	
	8" 9315162	NON STOCK	
	10" 9312092	NON STOCK	
	12" 9314624	NON STOCK	
	16" 9339887	NON STOCK	
	20" 9314823	NON STOCK	
11	THOR FITTING	3/4" MALE NPT X HOSE CONNECTION 0050409	NON STOCK
	1/2" FEMALE X HOSE CONNECTION 00504301	NON STOCK	
12	THRED-O-LET	12" - 6" X 3/4" 3000# PER ASTM A-105 GRADE B 9341652	NON STOCK
	10" - 6" X 1" 3000# PER ASTM A-105 GRADE B 9341656	NON STOCK	
	36" - 12" X 1" 3000# PER ASTM A-105 GRADE B 9342052	NON STOCK	
	2" X 1" 3000# PER ASTM A-105 GRADE B 9315162	NON STOCK	
	10" - 8" X 1" 3000# PER ASTM A-105 GRADE B 9307895	NON STOCK	
	36" - 14" X 3/4" 3000# PER ASTM A-105 GRADE B 9307877	NON STOCK	
13	VALVE		
13A	VALVE OPTIONAL - TO SHUT OFF TEST ASSEMBLY		
14	LUG ASSEMBLY	7/8" x 24" LONG LI ONLY - SEE MAIN-6210 9342211	NON STOCK
	7/8" x 44" LONG LI ONLY - SEE MAIN-6210 9342212	NON STOCK	
	LUG GREEN 3" MAIN 7/8" DIAM. (NYC ONLY - SEE MAIN-6230 & MAIN-6230) 8557804	NON STOCK	
	LUG YELLOW 10" - 30" MAIN 1-1/8" DIAM. (NYC ONLY - SEE MAIN-6230 & MAIN-6230) 8573905	NON STOCK	
	ROD 3/4" X 12" LONG (NYC ONLY) 9325152	NON STOCK	
	ROD 1" X 12" LONG (NYC ONLY) 9325150	NON STOCK	
	LUG ASSEMBLY 1/2" X 30" LONG 9315141	NON STOCK	
15	COUPLING - END 2" PERFECTION	NON STOCK	6803641
16	TEST CAP	FOR SADDLE FUSION TEE - CENTRAL PLASTICS 9325109	TOOL ROOM ITEM
	FOR SADDLE FUSION TEE - JM EAGLE / POLY / UPONOR 9325017	NON STOCK	
	FOR SADDLE FUSION TEE - PERFORMANCE PIPE TEES 9341368	NON STOCK	
	FOR HVTT (HIGH VOLUME TAPPING TEE) SADDLE FUSION CENTRAL PLASTICS 9304269	NON STOCK	
	FOR HVTT (HIGH VOLUME TAPPING TEE) SADDLE FUSION - JM EAGLE / POLY / UPONOR 9384174	NON STOCK	
	FOR HVTT (HIGH VOLUME TAPPING TEE) SADDLE FUSION PERFORMANCE PIPE TEES 9325152	NON STOCK	
	FOR ELECTROFUSION TEE 9382494	NON STOCK	
	FOR PERFECTION PMTT MECHANICAL TEE (CAP FITS ALL MAIN SIZE & OUTLET SIZES) 9381848	NON STOCK	
	9339661	NON STOCK	

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BOSTON GAS COMPANY
d/b/a
nationalgrid
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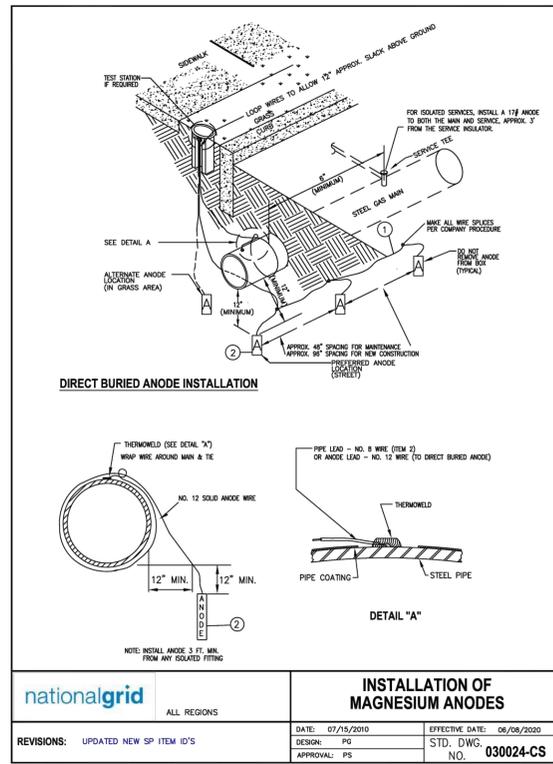
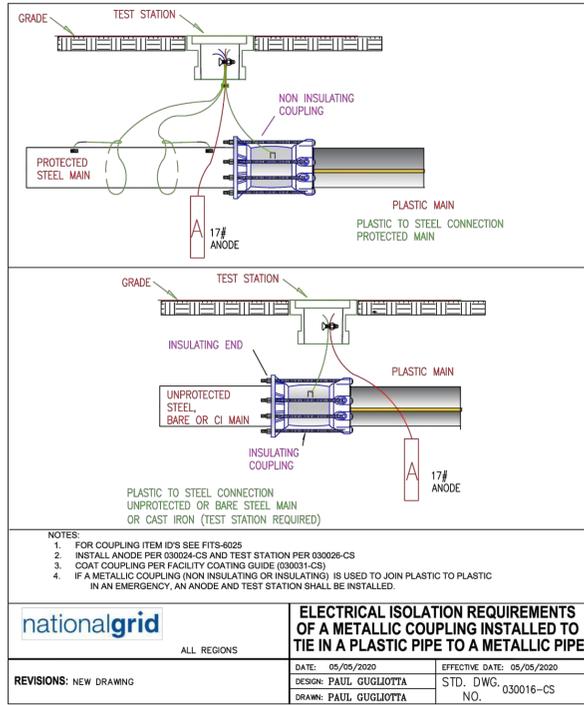
PE STAMP
COMMONWEALTH OF MASSACHUSETTS
MARK E. PETROSKI
7/24/2024
CIVIL
NO. 54037
REGISTERED PROFESSIONAL ENGINEER

NO.	DESCRIPTION	DATE	DR BY	CK BY	APP BY
1	NG COMMENTS	07/24/2024	DTD	SDS	MEP
0	ISSUED FOR CONSTRUCTION	07/02/2024	DTD	DMJ	JSW

55-131 N UNION ST
GAS MAIN REPLACEMENT
N UNION ST, DECATUR ST, GORDON RD, WHEATON RD, PATRICK ST, PURCELL RD
ARLINGTON, MA

STANDARD DETAILS

DWG SIZE: 22"X34"
DESIGNER: DDS COMPANIES
ENGINEER: D. DUER
DATE: 07/02/2024
ASSET I.D.: XXXXXXXX
W.O. NO.: 1593766



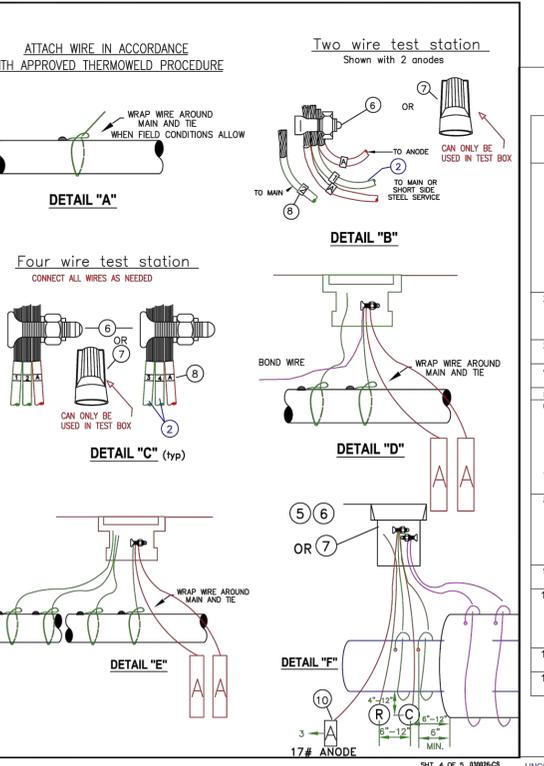
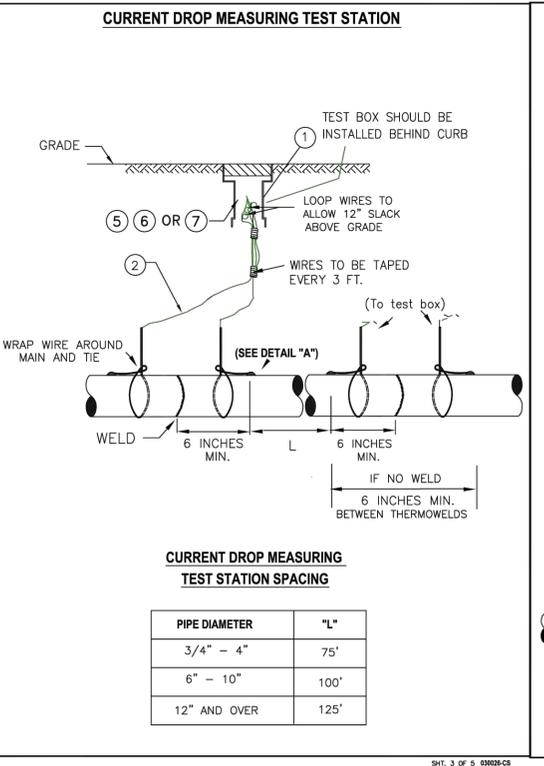
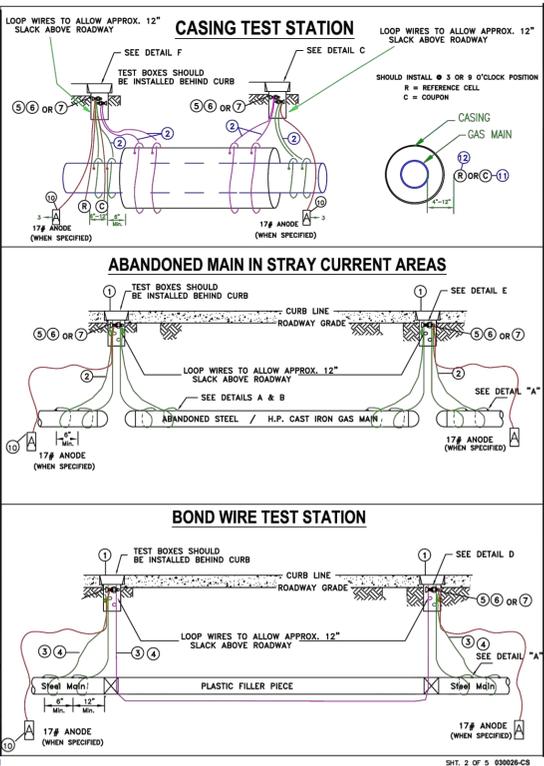
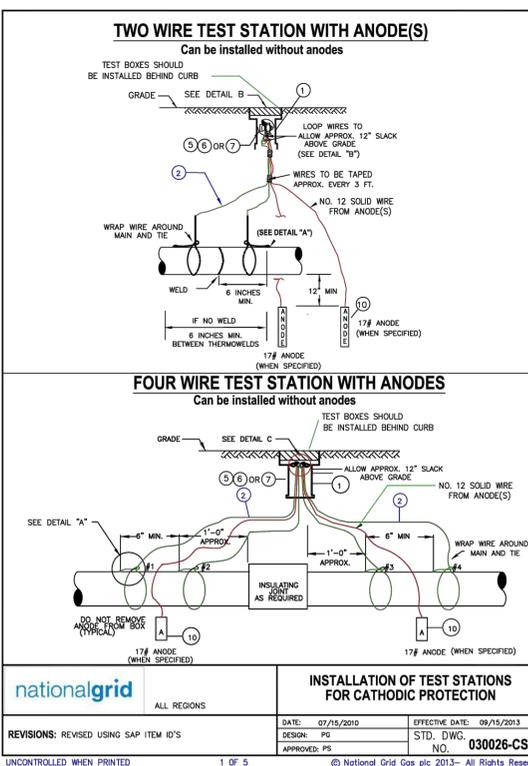
MATERIAL LIST

Description	Down State NY Item I.D.	Upstate NY Item I.D.	New England Item I.D.	Rhode Island Item I.D.	MATERIAL NOTES
1 CABLE NO. 8 - 1/C	9334425	9311214	9334425	9311214	Upstate and RI cable has 19 strands
2 ANODE, MAGNESIUM 17 LB	9311183	9311183	9311183	9311183	
3 ANODE, MAGNESIUM 3 LB	9315645	9315645	9315645	9315645	Use on Tracer wire and all isolated fittings
4 ANODE, MAGNESIUM SPIKE 3 LB	9308624	9308624	9308624	9308624	Use on Service Risers ONLY
CLAMP, GROUNDING 1/2IN - 1IN DIA.	9386544	9386544	9386544	9386544	Grounding clamp for attaching spike anode lead wire to service riser
CLAMP, GROUNDING 1-1/4IN - 2IN DIA.	9386559	9386559	9386559	9386559	Grounding clamp for attaching spike anode lead wire to service riser



* Spike Anode Ground Clamp

SHT. 2 OF 2 030024-CS



MATERIAL LIST

Description	Down State SAP Item I.D.	Upstate SAP Item I.D.	New England SAP Item I.D.	Rhode Island SAP Item I.D.	MATERIAL NOTES
1 TEST BOX WITH COVER	9339892	9312291	9339892	(SPT-445) 9311209 or (Lg-556) in Prov. 9311208	NON LOCKING COVER. DISCARD FOOT PIECE.
TEST BOX 9" SQUARE HEAVY DUTY	9339391	9339391	9339391	9339391	WEIGHS 95 LBS. STREET USE, WITHOUT COVER
COVER FOR 9" SQUARE BOX	9339797	9339797	9339797	9339797	NON-LOCKING COVER
2 WIRE, NO. 8, 7 STRAND	9307539	9307539	9307539	9307539	TEST WIRE ONLY, NOT FOR GROUND BEDS, UPSTATE AND RI WIRE HAS 19 STRANDS.
3 WIRE, NO. 6, 7 STRAND	9311795	9311795	9311795	9311795	BOND WIRE ONLY, NOT FOR GROUND BEDS
4 WIRE 1/0 - 19 STRAND 600 V -1/C	9334171	NON STOCK	9334171	NON STOCK	USE IN STRAY CURRENT AREAS
5 TAPE, PVC - 3/4" WIDE	9334056	9334056	9334056	9316070	NOT FOR PIPE COATING.
6 CONNECTOR, SPLIT BOLT, TYPE 6	9331578	9316630	9331578	NON STOCK	USE WITH NO. 6 CABLE
7 CONNECTOR, TWIST-ON WIRE NUT TAG ADHESIVE	9330683	9314631	9330683	9314631	USE WITH 1/0 CABLE
8 NUMBER 1 NUMBER 2 NUMBER 3 NUMBER 4 LETTER A	9307918 9307896 9307895 9307894 9307893	9307918 9307896 9307895 9307894 9307893	9307918 9307896 9307895 9307894 9307893	9307918 9307896 9307895 9307894 9307893	USE TO LABEL ANODES
9 GROUNDING CELL	NON STOCK	9315642	NON STOCK	NON STOCK	AS SPECIFIED BY CORROSION ENGINEERING
10 ANODE, MAGNESIUM 17LBS	9311183	9311183	9311183	9311183	SATURATE WITH WATER BEFORE BACKFILL. ANODE MAY BE INSTALLED VERTICALLY OR HORIZONTALLY.
11 COUPON	9386100	By Corrosion	9386100	By Corrosion	MC MILLER OR EQUAL
12 REFERENCE CELL	9385758	By Corrosion	9385758	By Corrosion	BORIN MFGR INC OR EQUAL

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NOTE:
1. CATHODIC PROTECTION DETAILS ARE NOT COVERED UNDER PE STAMP.

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BOSTON GAS COMPANY
d/b/a
nationalgrid
170 DATA DRIVE
WALTHAM, MA 02451

IFC

PE STAMP:
MARK E. PETROSKI
7/24/2024
CIVIL
NO. 54037
REGISTERED PROFESSIONAL ENGINEER

NO.	DESCRIPTION	DATE	DR BY	CK BY	APP BY
1	NG COMMENTS	07/24/2024	DTD	SDS	MEP
0	ISSUED FOR CONSTRUCTION	07/02/2024	DTD	DMJ	JSW

75-131 N UNION ST
GAS MAIN REPLACEMENT
N UNION ST, DECATUR ST, WHEATON RD, PATRICK ST, PURCELL RD
ARLINGTON, MA

STANDARD DETAILS

DWG SIZE: 22"X34"
DESIGNER: DDS COMPANIES
ENGINEER: D. DUER
DATE: 07/02/2024
ASSET I.D.: XXXXXXXX
W.O. NO.: 1593766

PAGE 10 OF 12

DRAWING NO.	SHEET NO.
C-202	10

VALVE BOXES UP TO 8" VALVES AND ALL RISER RINGS

DATE: 07/01/2003 EFFECTIVE DATE: 09/15/2014
 DESIGN: A. GULIANI/MAM STD. DWG. NO. FITS-6370
 DRAWN: J. CASTALUCCI, P. DIMAIO

FOR ROADWAY USE

DATE: 07/01/2003 EFFECTIVE DATE: 09/15/2014
 DESIGN: A. GULIANI/MAM STD. DWG. NO. FITS-6370
 DRAWN: J. CASTALUCCI, P. DIMAIO

FOR SIDEWALK USE & NON-PAVED AREAS

DATE: 07/01/2003 EFFECTIVE DATE: 09/15/2014
 DESIGN: A. GULIANI/MAM STD. DWG. NO. FITS-6370
 DRAWN: J. CASTALUCCI, P. DIMAIO

INSTALLATION NOTES:

- VALVE FOOT PIECE TO BE INSTALLED AROUND THE VALVE THEN INSERTED INTO THE BOTTOM FLANGE OF THE VALVE BOX.
- RANGE OF THE VALVE BOX FROM TOP OF GRADE TO TOP OF VALVE, IS 24" TO 38". FOR DEEPER VALVES USE EXTENSION TUBE STOCK CODE 0038023.
- THESE BOXES CAN ALSO BE USED WITH THE APPROPRIATE SIZE STEEL VALVE. IF USED WITH A STEEL VALVE THE "VALVE FOOT PIECE" IS NOT TO BE USED. HOWEVER, PRIOR TO BACKFILLING INSTALL THE LOWER PORTION OF THE VALVE KEY ON THE VALVE OPERATING NUT. THEN PLACE THE LOWER SECTION OF THE BOX ON THE VALVE. WHEN THE BOTTOM SECTION IS BACKFILLED TO WITHIN 6" FROM ITS TOP REMOVE THE VALVE KEY & INSTALL THE TOP SECTION OF THE BOX.
- ITEM 2 SHALL ONLY BE USED IN SIDEWALK AND NON-PAVED, NON TRAFFIC AREA EXCEPT DRIVEWAYS.
- USE ITEM 1 ON MAIN LINE VALVES INSTALLED IN PAVED AND NON PAVED AREAS.
- AFTER INSTALLATION OF MAIN LINE VALVE & BOX NOTIFY GSO OF COMPLETION.

MANUFACTURING NOTES:

- ALL TOPS & BOTTOMS SHALL BE INTERCHANGEABLE.
- THE TOP OF THE BOX ASSEMBLY SHALL BE FABRICATED SO AS TO FIT INSIDE THE BOTTOM SECTION.
- MATERIAL SHALL CONFORM TO ASTM SPECIFICATIONS FOR GREY CAST IRON CASTINGS, DESIGNATED A48, CLASS 25.
- COVER SHALL CREATE A TIGHT FIT WITH TOP OF CASTING TO PREVENT RATTLING. FOR CODES 0038054 & 0038055 COVER SHALL BE OF VENTED DESIGN. FOR OTHER STOCK CODES THE COVER SHALL INCLUDE A DIRECTIONAL ARROW. THIS SHALL BE DESIGNED TO ALLOW THE ARROW TO BE POSITIONED AT 60 INTERVALS.
- ALL SURFACES SHALL BE COVERED WITH ONE COAT OF FLINTKOTE HYDALT PROTECTIVE COATING, C-13-E OR APPROVED EQUAL.
- THE PLASTIC USED FOR THE TUBES SHALL BE PROTECTED FROM UV RAYS & HAVE THE PROPER INHIBITORS TO PROTECT FROM BRITTLINESS AT ZERO DEGREES.
- DIMPLES SHALL BE FORMED SO AS TO EXERT ENOUGH PRESSURE ON INNER TUBE TO SUPPORT ENTIRE ASSEMBLY IN EXTENDED POSITION.
- DIMENSIONAL TOLERANCES: MANUFACTURE SHALL ADHERE TO THE FOLLOWING DIMENSIONAL TOLERANCES ALL PLASTIC TUBING SHALL BE +/- 0.015" TO THOSE SHOWN ON THE DRAWING. ALL CASTINGS SHALL BE MANUFACTURED TO WITHIN +/- 0.0025" TO THE DIMENSIONS SHOWN ON THE DRAWING.
- DIMENSIONS SHALL BE CONSISTENT THROUGHOUT THE CASTING.
- TOP SECTION OF VALVE BOX SHALL HAVE THE PLASTIC TUBE FORCED FIT AND CEMENTED INTO THE CASTING. THIS JOINT SHALL BE CAPABLE OF WITHSTANDING A PULL OUT FORCE OF 20 POUNDS.
- MANUFACTURER SHALL SUBMIT SAMPLES TO THE ENGINEER FOR APPROVAL PRIOR TO BID ACCEPTANCE.
- STREET BOXES SHALL BE DESIGNED TO HANDLE TO AN H-20 ROADWAY LOADING.
- TOP FLANGE OF ROADWAY BOX SHALL BE FLAT AND WIDE ENOUGH TO ACCOMMODATE A 3/8" METAL NUMBER STAMP EMBEDDED INTO THE CASTING BY CKD IN THE FIELD.
- THE VALVE FOOT PIECE SHALL BE DESIGNED TO FIT THE FOLLOWING MANUFACTURER'S VALVES:
 1/2" - 1 1/2" PERFECTION
 2" - NORDSTROM OR PERFECTION UNIVERSAL FOOT PC FOR BOTH MFG.
 4" - 8" NORDSTROM

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No.	ITEM	BILL OF MATERIAL	N.G. CODE No.
18	PENTAGON KEY FOR ITEMS 8B AND 11B (NOT SHOWN)		9354644
17	2" REGRADE ADAPTER FOR 12" LOCKING BOX SC1200 R2		9384175
16	VALVE BOX ADAPTER RING, 1/4 INCH THICK X 7-5/8 INCH I.D. X 10-1/2 IN O.D. FLAT RING TO RAISE OLD LEGACY OBSOLETE L100 ROUND CASTINGS		9353359
15	ONE INCH GRADE ADAPTER & COVER FOR CP TEST#145 ROADWAY BOX - NI ONLY		9329213
	REPLACEMENT COVER FOR LIL #2 BOX - LI ONLY		9339529
	COVER MARKED "GAS" FOR 445 BOX (WITH UNIDIRECTIONAL ARROW)		9338350
	COVER MARKED "GAS" FOR 445 BOX (WITHOUT UNIDIRECTIONAL ARROW)		9339759
	COVER MARKED "GAS" FOR 4" STAY PUT BOX - NYC ONLY		9339588
	COVER MARKED "GAS" FOR #118 BOX		9339752
14	1" REGRADE ADAPTER WITH COVER FOR CP TEST #118 BOX - SEE NOTE B		9382611
13A	3/4" REGRADE ADAPTER FOR B&T STAY PUT SERVICE BOX WITH SLOTS NYC ONLY		9339800
13B	1/2" REGRADE ADAPTER FOR B&T STAY PUT SERVICE BOX WITH SLOTS NYC ONLY		9339725
12	1" REGRADE ADAPTER FRAME FOR THE LIL #2 & 3 SERVICE BOX		9339569
	COVER FOR ABOVE (NOT SHOWN) - LI ONLY		9339860
11B	COVER, REPLACEMENT, LOCKING, MARKED "GAS" FOR EXISTING LOCK TYPE 200 BOX, WITH PENTHEAD BOLT - LI ONLY (NOT SHOWN)		9384338
11A	COVER, REPLACEMENT, NON-LOCK, MARKED "GAS" FOR EXISTING NON-LOCK TYPE 200 BOX - LI ONLY (NOT SHOWN)		9339798
11	1" REGRADE ADAPTER FRAME & COVER FOR 200 VALVE BOX - LI ONLY		9339826
	2-1/2" REGRADE ADAPTER FOR 200 VALVE BOX - FITS EXISTING COVER. (NOT SHOWN) - LI ONLY		9339799
10	1" REGRADE ADAPTER & COVER FOR 91C BOX - LI ONLY		9339761
9	1 1/2" REGRADE ADAPTER FOR LIL 243 BOX - LI ONLY		9339758
8B	COVER, REPLACEMENT, LOCKING, MARKED "GAS" FOR 7-1/2" EXISTING TYPE "A" LOCK VALVE BOXES, WITH PENTHEAD BOLT - LI ONLY (NOT SHOWN)		9339670
8A	COVER, REPLACEMENT, MARKED "GAS" FOR 7-1/2" EXISTING TYPE "A" NON-LOCK VALVE BOXES AND ALL TYPE "A" ADAPTER RINGS - LI ONLY (NOT SHOWN)		9339424
8	1" REGRADE ADAPTER FOR TYPE "A" VALVE BOX - FITS EXISTING COVER - LI ONLY		9339827
	2-1/2" REGRADE ADAPTER FOR TYPE "A" VALVE BOX - 2-1/2 IN MIN TO 8 IN MAX RISE. FITS EXISTING COVER - LI ONLY		9339763
6	1" REGRADE ADAPTER RING EXTENSION WITH 10" PLASTIC SKIRT TO REPAIR TOPS OF CP TEST #10 BOX		9381407
5	1" REGRADE ADAPTER FOR CP TEST #10 BOX		9339823
4	EXTENSION TUBE - FOR CP TEST #11 BOX		9382619
	EXTENSION TUBE - FOR CP TEST #10 BOX		9339824
	EXTENSION TUBE, FOR CP TEST #658 BOX, 18" LONG - (NOT SHOWN) - NE ONLY		9331199
	EXTENSION TUBE, FOR CP TEST #334 BOX, 24" LONG - (NOT SHOWN) - NE ONLY		9331198
	ROADWAY BOX ASSEMBLY AND COVER FOR 8" POLYVALVE CP TEST #118 OR APPVD EQUAL		9339893
	ROADWAY BOX ASSEMBLY AND COVER FOR 6" POLYVALVE CP TEST #118 OR APPVD EQUAL		9339892
	ROADWAY BOX ASSEMBLY AND COVER FOR 4" POLYVALVE CP TEST #118 OR APPVD EQUAL		9339891
	ROADWAY BOX ASSEMBLY AND COVER FOR 2" AND 3" POLYVALVES CP TEST #10 OR APPVD EQUAL		9339890
	ROADWAY BOX ASSEMBLY AND COVER FOR 1-1/2" MUELLER SERVICE VALVE TEE CP TEST #10 OR APPVD EQUAL		9339887
2	ROADWAY SERVICE BOX AND COVER FOR 1/2" TO 1" PLASTIC VALVE ONLY CP TEST #10 OR APPVD EQUAL		9382767
1	SIDEWALK VALVE BOX ASSEMBLY AND UNIDIRECTIONAL ARROW COVER FOR 1/2" TO 1 1/4" PLASTIC VALVES CP TEST #445 OR APPVD EQUAL		9339888
	SIDEWALK VALVE BOX ASSEMBLY AND UNIDIRECTIONAL ARROW COVER FOR 2" TO 3" PLASTIC VALVES CP TEST #445 OR APPROVED EQUAL		9339889

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2"-12" PE VALVE TYPICAL INSTALLATION

DATE: 07/01/2003 EFFECTIVE DATE: 06/09/2020
 DESIGN: A.J.D. / MAM STD. DWG. NO. VALV-6020
 DRAWN: P. DIMAIO

NOTES:

- IN DNY LI REGION, INSTALL A LENGTH OF 2" DIAMETER PE OR SMALLER TUBING IN THE VALVE BOX TO IDENTIFY THE VALVE AS PLASTIC.
- INSTALL TRACER WIRE OR BALL MARKERS AS REQUIRED IN YOUR REGION FOR PE INSTALLATIONS.
- NOT USED ON THE DNY LI 99 & 124 PSI PE SYSTEM.
- REFER TO REGIONAL STANDARDS FOR MATERIAL IDS NOT GIVEN BELOW.

SAP ID	SAP ID	SAP ID
UNY AND RI	LI ONLY	LI, NYC AND NE
LP TO 100 PSIG HD	99 AND 124 PSIG HD	LP TO 60 PSIG MEDIUM DENSITY
9311203 12" DR 11 FULL PORT W/ GEAR OPERATOR RI ONLY	9341706 8" RED PORT DR 9	9341704 12" FULL PORT DR 13.5
9307909 12" DR 13.5 FULL PORT W/ GEAR OPER UNY ONLY	9341705 6" RED PORT DR 8	9386294 6" FULL PORT DR 13.5
9311173 6" DR 11 FULL PORT RI ONLY	9341700 4" RED PORT DR 8	9323032 6" FULL PORT DR 11.5
9315189 6" DR 13.5 FULL PORT UNY ONLY	9341699 2" FULL PORT DR 9	9341709 4" FULL PORT DR 11.5
9312116 6" DR 11 FULL PORT		9323299 3" FULL PORT DR 11
9312056 6" DR 11 FULL PORT		9341794 2" FULL PORT DR 11
9306561 3" DR 11 FULL PORT RI ONLY		9341408 8" RED PORT DR 13.5
9312062 2" DR 11 FULL PORT		9341757 6" RED PORT DR 11.5
9311146 2" DR 11 FULL PORT WITH PERMASERT ENDS		9341863 4" RED PORT DR 11.5
		9341756 3" RED PORT DR 11
		100 PSIG HIGH DENSITY (NE ONLY)
		9323910 4" RED PORT DR 11
		9326111 6" RED PORT DR 11
		9326112 6" RED PORT DR 11
		9312050 2" FULL PORT DR 11
		9312058 4" FULL PORT DR 11
		9312116 6" FULL PORT DR 11
		SELECT ROADWAY VALVE BOX BELOW TO MATCH SIZED VALVE GIVEN
SEE DWG FITS 6360 (FOR 12" VALVE)	9341706 8" RED PORT	9382626 FOR 12" FULL PORT
(FOR 2" THRU 8" VALVE)	9341705 6" RED PORT	9382626 FOR 8" FULL PORT
	9341700 4" RED PORT	9339893 FOR 6" FULL PORT
	9341699 2" FULL PORT	9339892 FOR 4" FULL PORT
		9339890 FOR 3" FULL PORT
		9339890 FOR 2" FULL PORT
		9339893 FOR 6" RED PORT
		9339892 FOR 6" RED PORT
		9339891 FOR 4" RED PORT
		9339891 FOR 3" RED PORT

UNCONTROLLED WHEN PRINTED Effective Date 06/09/2020 2 OF 2 National Grid Gas plc 2020 - All Rights Reserved VALV-6020

SUPPORT REQUIREMENTS FOR EXPOSED & UNDERNERVED STEEL OR PLASTIC GAS FACILITIES

DATE: 07/01/2003 EFFECTIVE DATE: 03/07/2018
 DESIGN: A. GULIANI STD. DWG. NO. CNST-6045
 DRAWN: P. DIMAIO

NOTES:

- THIS CONSTRUCTION STANDARD SHALL BE USED TO SUPPORT PLASTIC OR STEEL GAS FACILITIES WHICH ARE UNDERMINED AND EXPOSED BY CONSTRUCTION ACTIVITY.
- IF AN EXCAVATION IS MADE AT ANY DISTANCE PARALLEL TO THE GAS FACILITY WITH ADEQUATE OSHA STRUCTURAL SHORING, AS SHOWN IN DETAIL "A", OR IF A STABLE SOIL CONDITION WITH SUFFICIENT COVER ABOVE THE PIPE'S CENTERLINE EXISTS, AS SHOWN IN DETAIL "B", THEN SUPPORTS ARE NOT REQUIRED. UNSTABLE SOIL IS DEFINED AS A SOIL WHICH CAN CAUSE "SOIL RUN OUT" FROM BENEATH THE PIPE (e.g., WASHOUT, SOFT CLAY, etc.) OR CAN SHIFT DUE TO CONSTRUCTION ACTIVITY, VIBRATIONS, etc., AND CAUSE A SOIL SCENARIO TO OCCUR AS SHOWN IN DETAIL "B" TO REQUIRE PIPE SUPPORT.
- IF AN EXCAVATION CROSSES OR RUNS PARALLEL TO A GAS FACILITY, SUPPORTS MAY NOT BE REQUIRED IF THE EXPOSED SECTION OF PLASTIC PIPES IS 3" OR LESS AND STEEL PIPES 7" OR LESS.
- ALL EXCAVATIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE ONE CALL DIG SAFE PROGRAM USING THE APPROPRIATE MARK OUT, TEST HOLES AND EXCAVATION TO AVOID DAMAGE TO PIPE OR PIPE COATINGS:
 - NEW YORK STATE CODE RULE 753
 - MA CHAPTER 82 - SECTION 45, GENERAL LAWS, REGULATING NOTICE REQUIREMENTS FOR EXCAVATION IN PUBLIC WAYS
- USE OF THIS CONSTRUCTION STANDARD DOES NOT RELIEVE THE CONSTRUCTION AGENCY OR AUTHORITY OR THEIR RESPECTIVE CONTRACTORS OF RESPONSIBILITY FOR DAMAGES. ALL DAMAGES WILL BE REPAIRED IN ACCORDANCE WITH EXISTING STANDARDS AND THE APPROPRIATE PARTY SHALL BE BILLED FOR ALL EXPENSES.
- GAS FACILITIES SHOULD NOT BE UNDERMINED WITHOUT ADEQUATE SUPPORT (DETAIL A), ALL SUPPORT LINES SHALL BE TENSIONED SO THAT NO DEFLECTION WILL OCCUR WHEN THE FACILITY IS UNDERMINED. THIS TENSION SHALL BE CHECKED AT THE START AND END OF EACH DAY AND ADJUSTED AS NECESSARY.
- WHERE A COUPLING, GAS SERVICE, CLAMP, VALVE, DRIP LINE OR OTHER APPURTENANCE EXISTS ON THE EXPOSED SECTION OF MAIN, AN ADDITIONAL SUPPORT SHALL BE INSTALLED AT THE LOCATION.
- WHEN SUPPORTING AN EXPOSED FACILITY, THE PIPE COATING SHALL BE PROTECTED WITH ROCK SHIELD (ITEM ID 9340226), OR OTHER LIKE MATERIAL CUT TO A MINIMUM WIDTH OF 1/2 THE SUPPORTED PIPE DIAMETER. SUPPORT LINES SHALL BE A MINIMUM OF 3/4" POLYPROPYLENE OR BETTER. FRP SHELDS MAY ALSO BE USED FOR THIS PURPOSE PROVIDED THEY EXTEND A MINIMUM OF 1/2 WAY UP THE PIPE TO PROTECT FROM SIDE LOADING.
- SUPPORTS FOR GAS TRANSMISSION FACILITIES SHALL BE REVIEWED WITH GAS ENGINEERING PRIOR TO INSTALLATION.
- THE MAXIMUM SPACING BETWEEN SUPPORTS FOR STEEL FACILITIES SHALL BE AS FOLLOWS:
 7' SPACING FOR 16" AND 1 1/2" STEEL
 10' SPACING FOR 2" STEEL
 15' SPACING FOR 3" AND 4" STEEL
 20' SPACING FOR 6" AND LARGER STEEL
- THE MAXIMUM SPACING BETWEEN SUPPORTS FOR PLASTIC FACILITIES SHALL BE AS FOLLOWS:
 3' SPACING FOR 2" AND SMALLER PLASTIC
 6' SPACING FOR 4" AND LARGER PLASTIC
- VIBRATING MACHINES ARE ALLOWED OVER STEEL OR PLASTIC FACILITIES WITH 24" OR GREATER COVER. HAND HELD MECHANICAL TAMPER IS ACCEPTABLE OVER ANY FACILITY WITH 12" OR GREATER COVER.
- WHEN CONSTRUCTION ACTIVITY IS COMPLETED, CLEAN FILL SHALL BE COMPACTED AROUND AND UNDER THE GAS FACILITY BEFORE REMOVING SUPPORTS.
- SEE REGIONAL DAM1007-NYC-LI-UNY OR DAM-MA-RI PROCEDURES FOR REPLACEMENT REQUIREMENTS OF CAST IRON PIPE.

TABLE 1 SUGGESTED MAXIMUM PIPE SUPPORT SPACING "L" SUGGESTED MAXIMUM SPAN

PIPE SIZE (INCHES)	CAST IRON (FEET)
1	-
2	-
3	4
4	4
6	4
8	4
12	6
16	6
20	6
24	6

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TEMPORARY SUPPORT SPACING GUIDELINES FOR CAST IRON MAINS

DATE: 2/15/2018 EFFECTIVE DATE: 2/15/2018
 DESIGN: ED. MARIAN STD. DWG. NO. CNST6046
 DRAWN: PAUL. GUGLIOTTA

nationalgrid LI-MA-NYC

REVISIONS: UPDATED ITEM ID'S

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nationalgrid LI-MA-NYC

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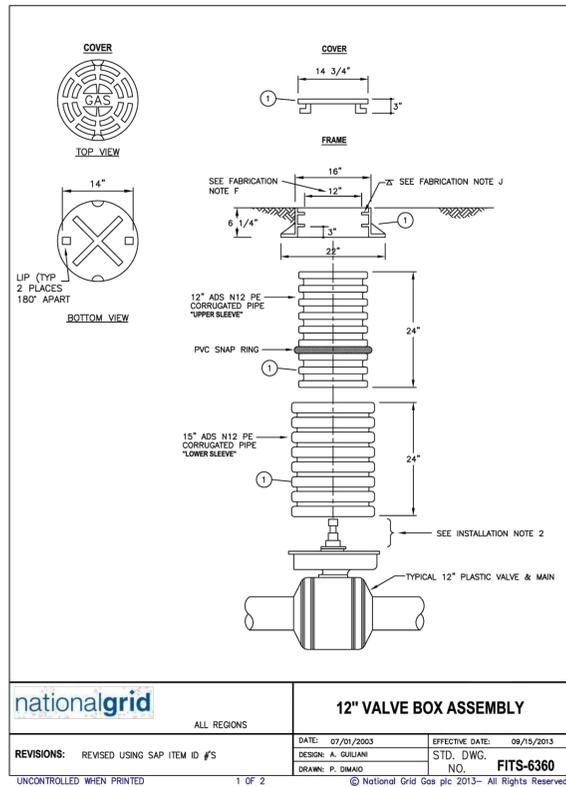
REVISIONS: UPDATED SAP ID# AND NOTE N

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FABRICATION NOTES

A. MATERIAL FOR FRAME AND COVER SHALL CONFORM TO ASTM SPECIFICATIONS FOR GREY CAST IRON CASTINGS, DESIGNATED A-48, CLASS 25.

B. ALL CASTING SURFACES SHALL BE COVERED WITH ONE COAT OF FLINTKOTE HYDALT PROTECTIVE COATING, C-13-E OR APPROVED EQUAL.

C. DIMENSION SHOWN ARE OF A GENERAL NATURE, MANUFACTURER SHALL SUPPLY DETAIL SHOP SUPPLY DETAIL DRAWINGS WITH BID.

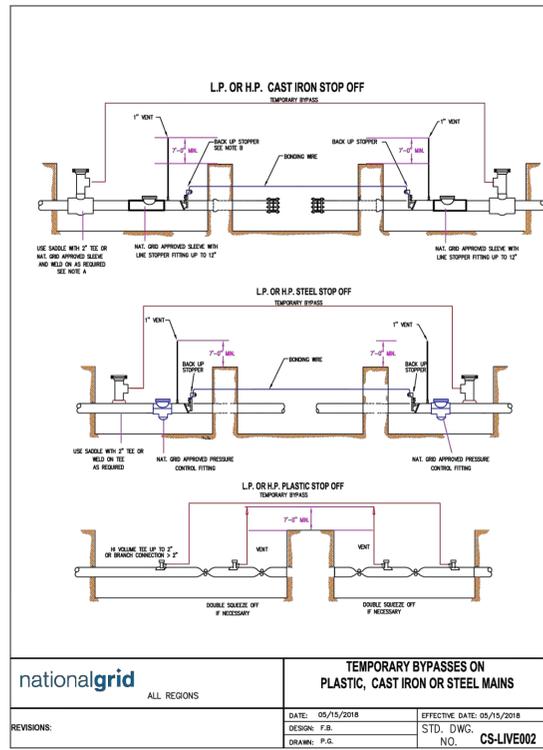
D. CASTING & ENTIRE SYSTEM SHALL BE DESIGNED TO WITHSTAND H-20 ROADWAY LOADING.

E. PIPE USED FOR SLEEVES SHALL BE HIGH DENSITY POLYETHYLENE ADS N-12 CORRUGATED PIPE.

F. THE INSIDE DIMENSION OF THE FRAME SHALL BE A MINIMUM OF A CLEAR 12\"/>

NO.	ITEM	ORACLE ITEM ID LI / NYC / MASS / NH	PEOPLESOFT ITEM ID RHODE ISLAND UPSTATE NEW YORK
1	12\"/>		

UNCONTROLLED WHEN PRINTED
Effective Date 08/15/2013



NO.	ITEM	ORACLE ITEM ID LI / NYC / MASS / NH	PEOPLESOFT ITEM ID RHODE ISLAND UPSTATE NEW YORK
1	12\"/>		

UNCONTROLLED WHEN PRINTED
Effective Date 08/15/2013

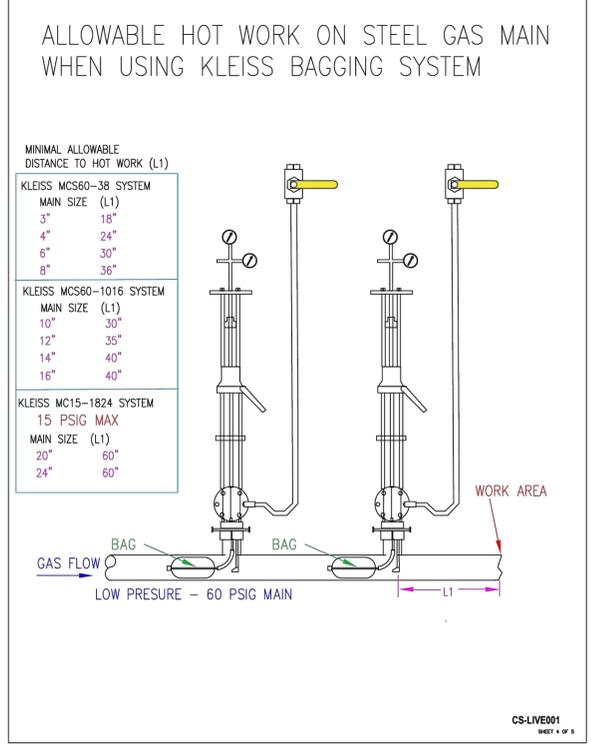
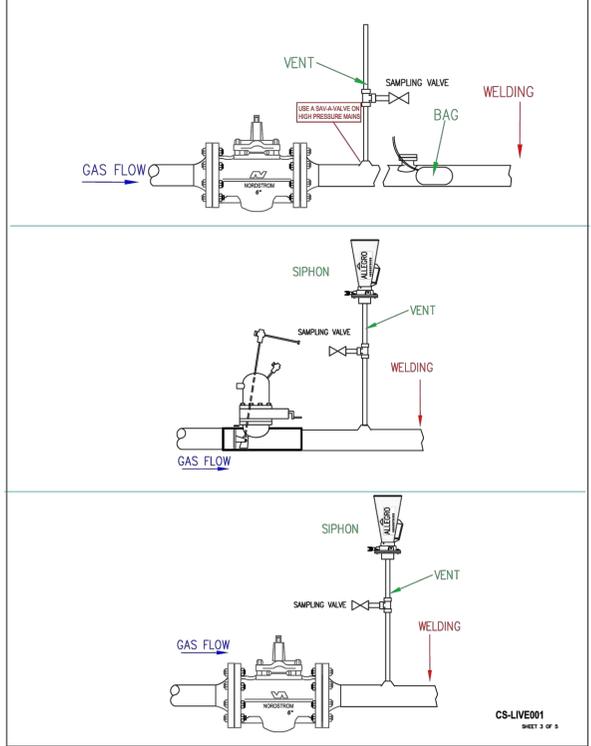
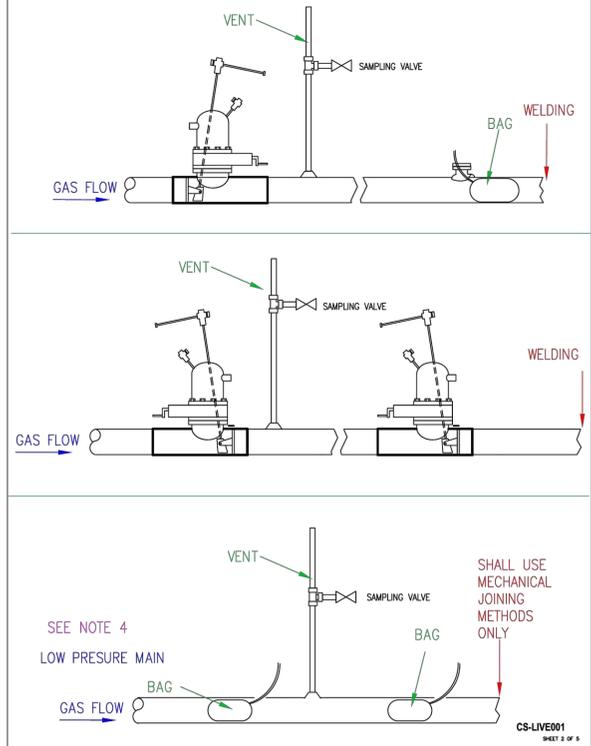
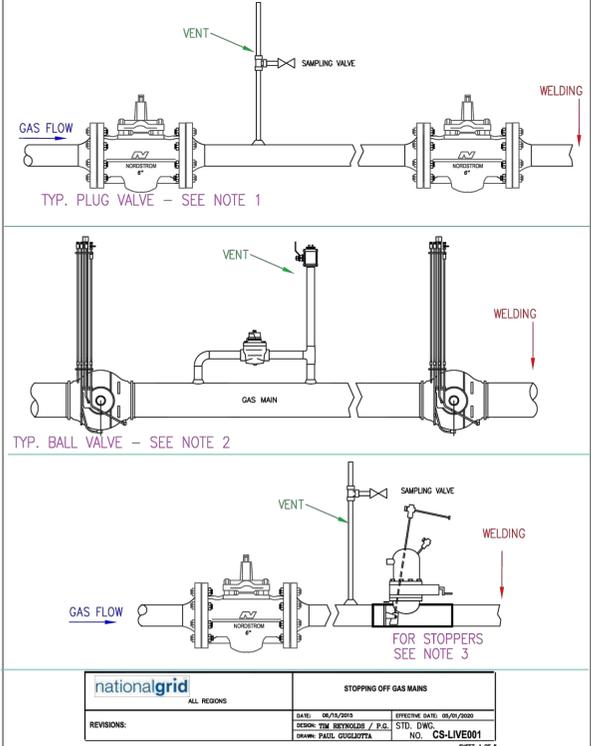
NOTES:

A. FOR BYPASSES ON THE LP SYSTEM ONLY SCREW TEES AND BAGHOLES MAY BE TAPPED DIRECTLY INTO THE MAIN.

B. BACK UP STOPPERS WILL BE REQUIRED IF INSUFFICIENT STOP OFF CAN BE ACHIEVED OR IF WELDING BETWEEN THE STOPPERS WILL BE REQUIRED.

C. STOP OFF CAN BE PERFORMED USING MUELLER, T.D. WILLIAMSON, KLEISS, BAGS, OR OTHER APPROVED STOP OFF SYSTEMS.

SHT. 2 OF 2 CS-LIVE002



NOTES:

1. PLUG VALVES SHOULD BE GREASED PRIOR TO SHUTTING OFF TO INSURE TIGHT SHUTOFF.

2. USE THE BALL VALVE'S BLOCK AND BLEED AND / OR PURGE ASSEMBLY IF AVAILABLE TO VENT GAS BETWEEN THE TWO CLOSED VALVES.

3. REFER TO MANUFACTURER'S LITERATURE FOR PRESSURE LIMITS OF STOPPERS AND DRILLING EQUIPMENT.

4. WELDING SHALL NOT BE PERFORMED AGAINST A BAG WHERE THE BAG IS USED AS THE PRIMARY MEANS OF STOPPING THE GAS FLOW. SEE STOP-OFF OPERATIONS ON LOW PRESSURE MAINS [CNST-03002].

PAGE 5 OF 5 CS-LIVE001

THE DDS COMPANIES
153 CORDAVILLE RD, SUITE 210
SOUTHBOROUGH, MA 01772
PHONE (781) 383-4644

BOSTON GAS COMPANY
a/b/a
nationalgrid
170 DATA DRIVE
WALTHAM, MA 02451
IFC

PE STAMP:
COMMONWEALTH OF MASSACHUSETTS
MARK E. PETROSKI
7/24/2024
CIVIL
NO. 54037
REGISTERED PROFESSIONAL ENGINEER

NO.	DESCRIPTION	DATE	DR BY	CK BY	APP BY
1	NG COMMENTS	07/24/2024	DTD	SDS	MEP
0	ISSUED FOR CONSTRUCTION	07/02/2024	DTD	DMJ	JSW

55-131 N UNION ST
GAS MAIN REPLACEMENT
N UNION ST, DECATUR ST, GORDON RD, WHEATON RD, PATRICK ST, PURCELL RD
ARLINGTON, MA
STANDARD DETAILS

DWG SIZE	DESIGNER	ENGINEER	DATE	ASSET I.D.	W.O. NO.:
22"X34"	DDS COMPANIES	D. DUER	07/02/2024	XXXXXXXX	1593766

PAGE 12 OF 12	
DRAWING NO.	SHEET NO.
C-204	12

ATTACHMENT D

Photographic Log

Client: Boston Gas Company

Job Number: N-5068-315

Site: Gas Main Replacement Project, Arlington MA



Photographic Log

Client: Boston Gas Company

Job Number: N-5068-315

Site: Gas Main Replacement Project, Arlington MA



Photographic Log

Client: Boston Gas Company

Job Number: N-5068-315

Site: Gas Main Replacement Project, Arlington MA

Photograph No.: 5	Date: 8/14/2024	Direction Taken: Southeast
Description: Gordon Road from North Union Street- Area of Bordering Land Subject to Flooding.		
		

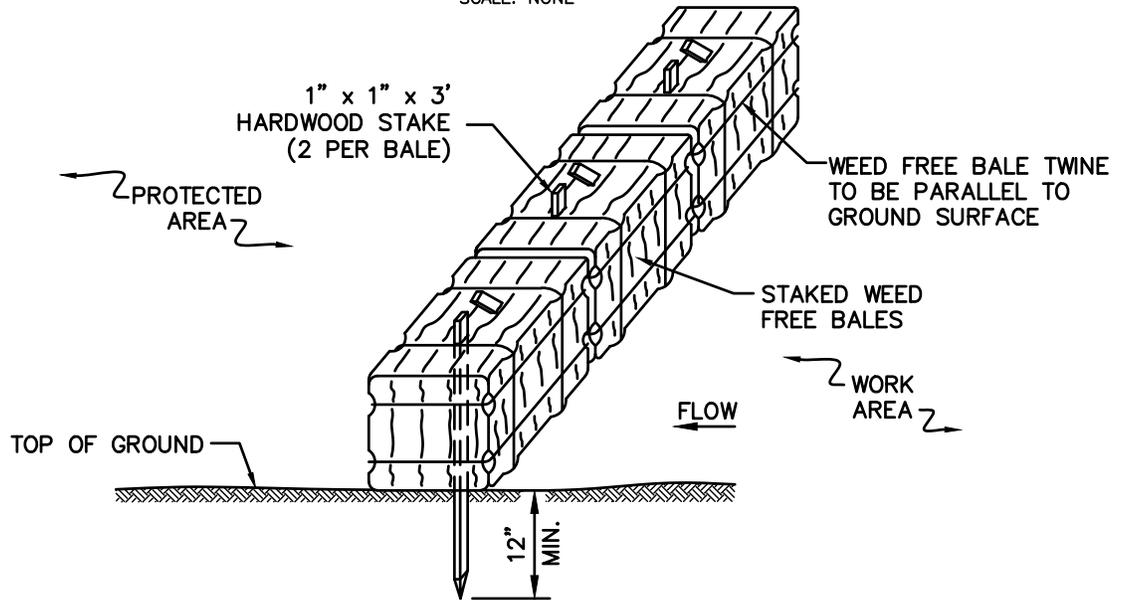
ATTACHMENT E

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



File: BALE_BARRIER.DWG

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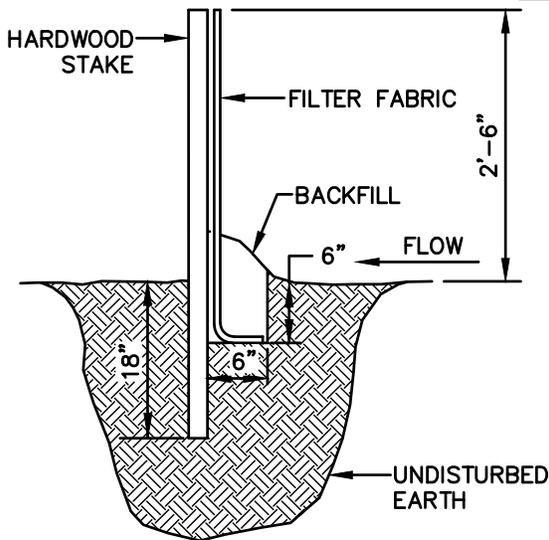
SEC-1
WEED FREE BALE BARRIER
71 of 137

SUBJECT
Access, Maintenance and Construction
Best Management Practices

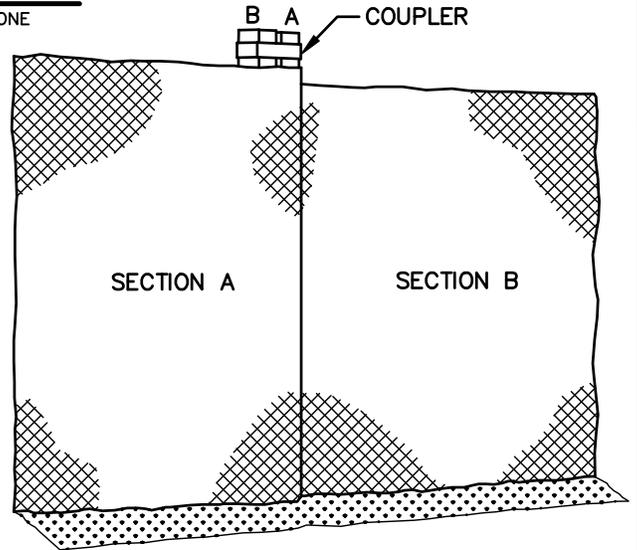
Reference
EP No. 3 - Natural Resource
Protection (Chapter 6)

BMP DETAIL

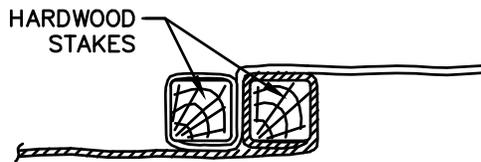
SCALE: NONE



PROFILE



SECTION



PLAN

BMP PICTURE



File: Sediment_Fence.dwg

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SEC-2
SEDIMENT CONTROL FENCE
72 of 137

SUBJECT

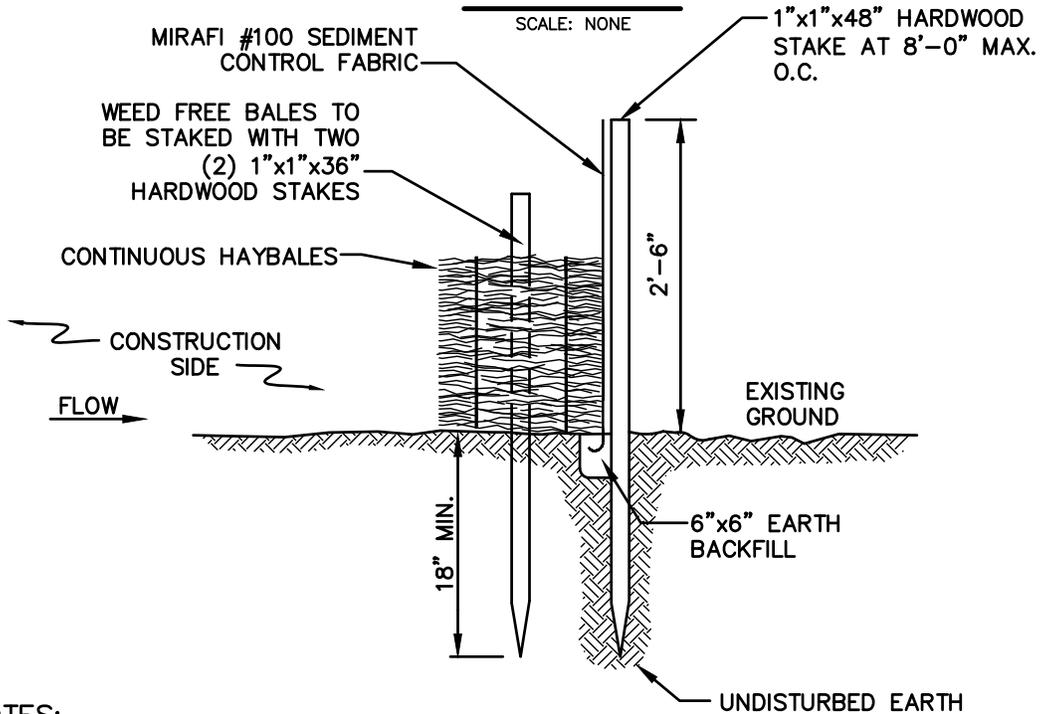
Access, Maintenance and Construction
Best Management Practices

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



File: Silt_Fence_&_Barrier.dwg

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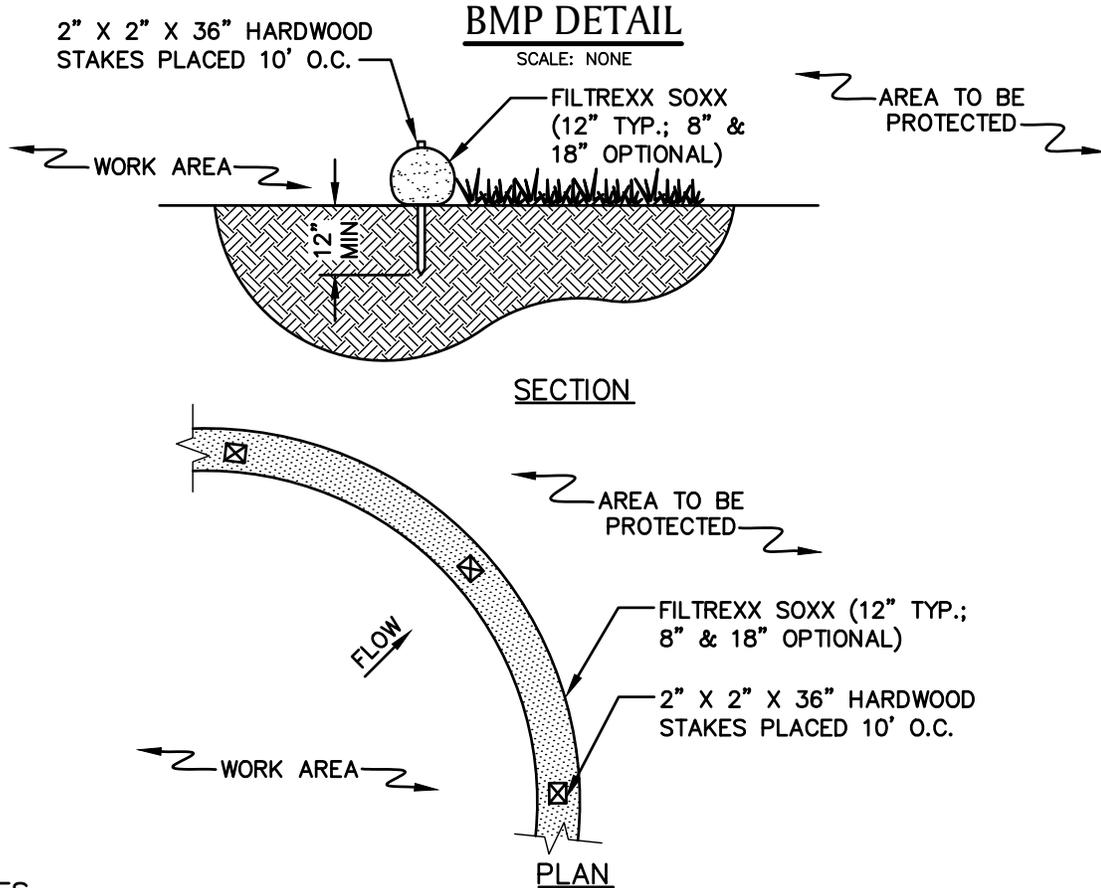
**SEC-3
SILT FENCE /
WEED FREE BARRIER**

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
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SEC-4
SILT SOXX *

SUBJECT

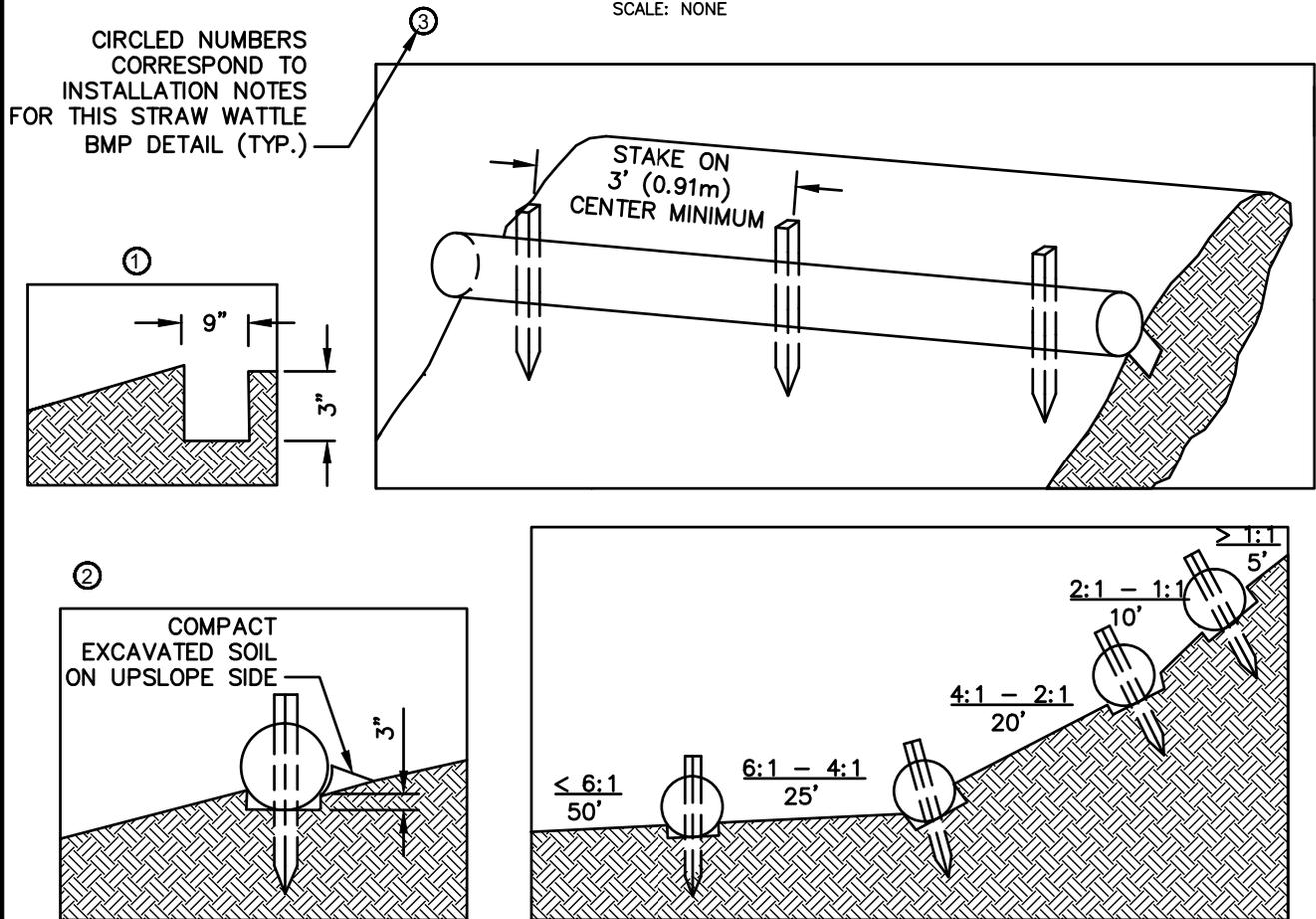
Access, Maintenance and Construction
Best Management Practices

Reference

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

BMP DETAIL

SCALE: NONE



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
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SEC-5
STRAW WATTLE * (1 OF 2)
 75 of 137

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.

*** DETAIL AND PICTURE PROVIDED BY TENSAR NORTH AMERICAN GREEN
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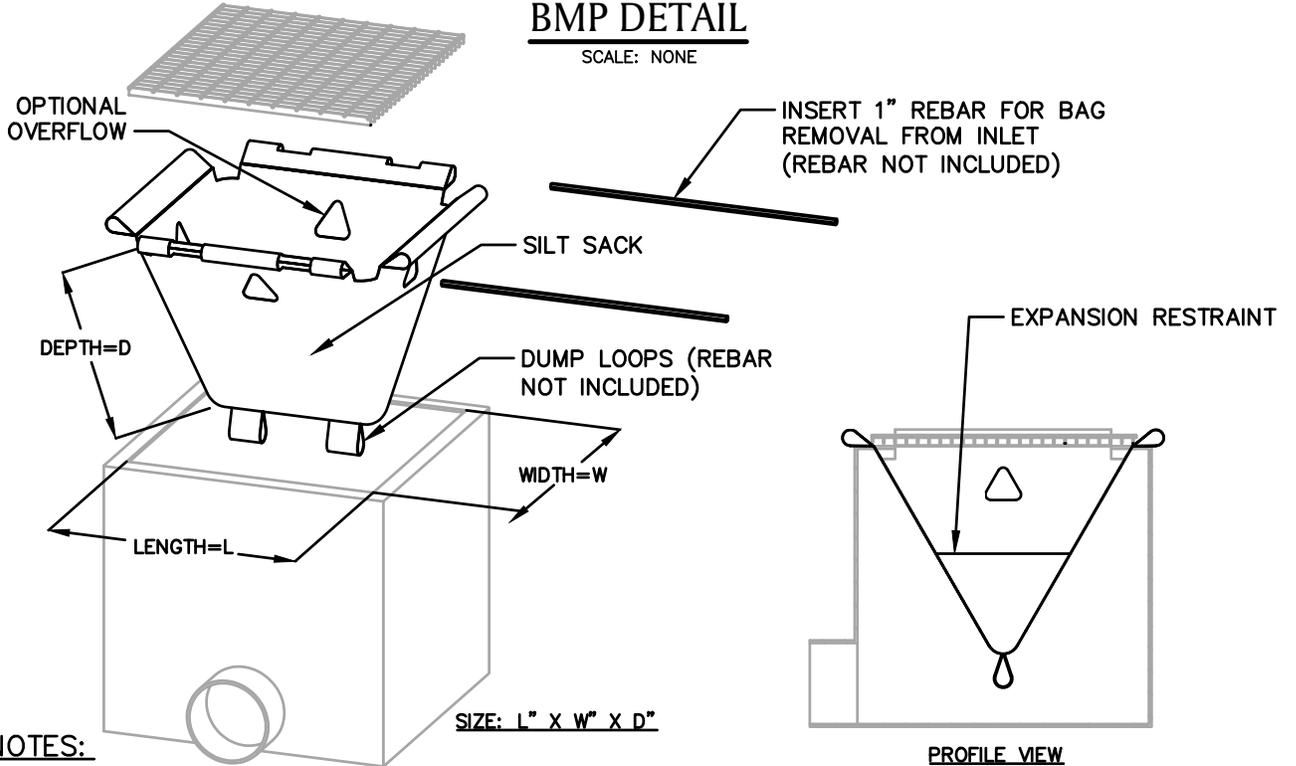
**SEC-5
STRAW WATTLE * (2 OF 2)
76 of 137**

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 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**
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SUBJECT

Access, Maintenance and Construction
Best Management Practices

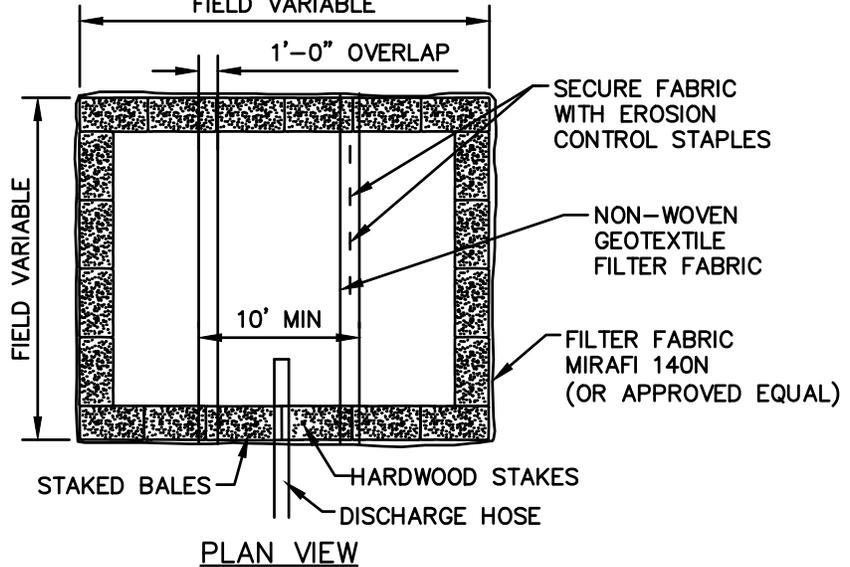
Reference

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

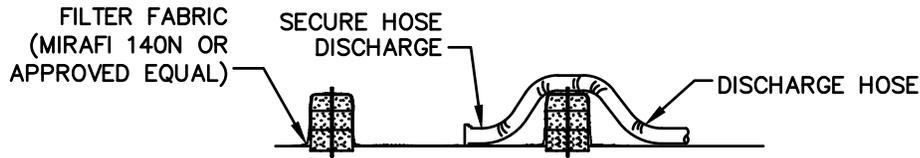
BMP DETAIL

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



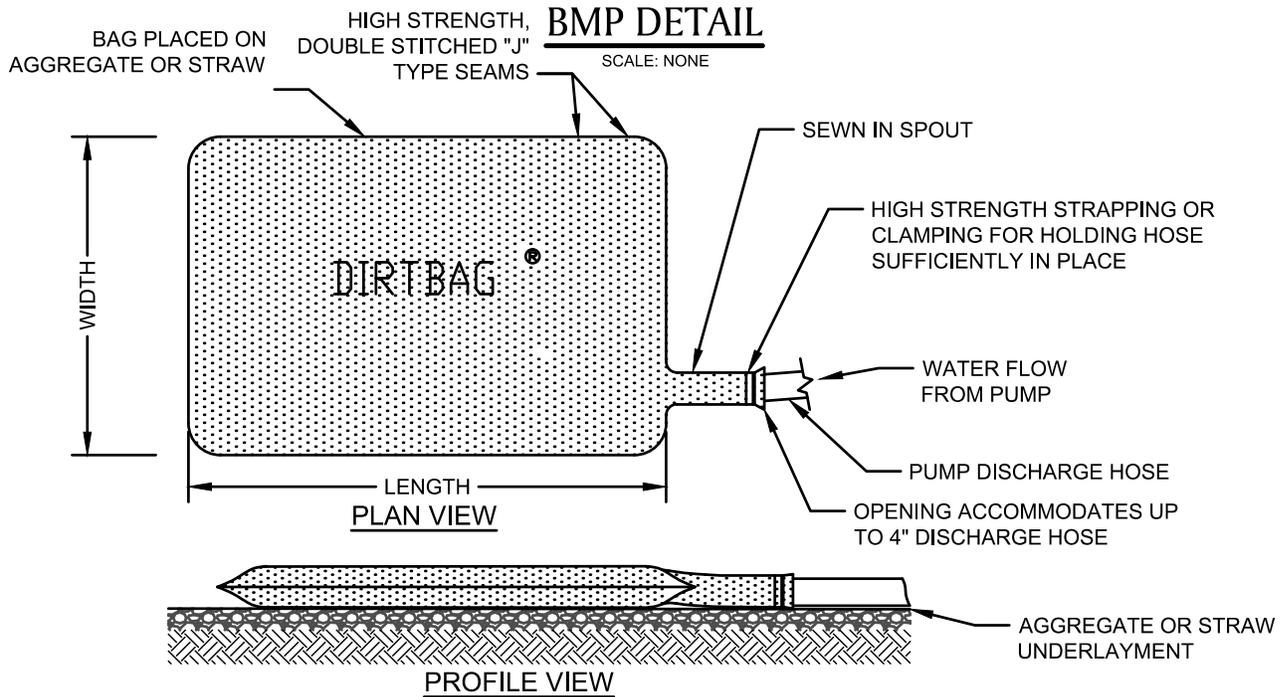
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AA-10
DEWATERING BASIN
(SMALL SCALE)

SUBJECT
Access, Maintenance and Construction
Best Management Practices

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



BMP PICTURE



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ATTACHMENT F

**CERTIFIED ABUTTERS LIST****Date: August 2, 2024****Subject Property Location: Work area is the roadways of North Union St from Norcross St. to Decatur St, Gordon Rd to #11, Wheaton Rd to #5-7, Patrick St to #6-8 & Purcell Rd to #9-11****Search Distance: 100 feet**

Parcel ID	Property Location	Owner 1	Owner 2	Mailing Address 1	Mailing 2	City/Town	State	Zip
36.A-1-91	91--95 NORTH UNION ST UNIT 91	CELO SOKOL &	CERIBASHI ELDA	91 NORTH UNION ST		ARLINGTON	MA	02474
36.A-1-95	91--95 NORTH UNION ST UNIT 95	MAJMUNDAR AMAR J	DWYER ERICA C	95 NORTH UNION ST		ARLINGTON	MA	02474
35.A-3-53	53 NORTH UNION ST UNIT 53	NGUYEN SON-CA VIET THI ETAL/ TRS	EMELIE & NGUYEN LIVING TRUST	556 PALO ALTO AVE		MOUNTAIN VIEW	CA	94041
35.A-3-55	55 NORTH UNION ST UNIT 55	SCHECHET ARIK &	SCHECHET BETHANN	55 NORTH UNION ST		ARLINGTON	MA	02474
39.A-7-9	9--11 PURCELL RD UNIT 9	BIYIKLI EMRE & SENEM		9 PURCELL RD		ARLINGTON	MA	02474
39.A-7-11	9--11 PURCELL RD UNIT 11	STEINBERG BESSIE	SISKIND ELI	11 PURCELL RD		ARLINGTON	MA	02474
37.A-2-75.1	75 DECATUR ST UNIT 1	DOKANIA ADITY	KAMDAR RONAK	75 DECATUR ST	UNIT 1	ARLINGTON	MA	02474
37.A-2-75.2	75 DECATUR ST UNIT 2	WIDELL MARCUS & ERIN C		75 DECATUR ST	UNIT 2	ARLINGTON	MA	02474
37.A-2-75.3	75 DECATUR ST UNIT 3	SO JIN YOUNG	YANG YUNHO	75 DECATUR ST	UNIT 3	ARLINGTON	MA	02474
35-2-11	45 NORTH UNION ST	WOOG DEBRA A/ TRUSTEE	DEBRA A WOOG REVOCABLE TRUST	45 NORTH UNION ST		ARLINGTON	MA	02474
35-2-12	54 NORCROSS ST	TAREQUE HENRY BIN	IBANEZ JENNIFER RENEE	54 NORCROSS ST		ARLINGTON	MA	02474
35-3-2	59 NORTH UNION ST	COTONI PHILIP J/JULIE R		59 N UNION ST		ARLINGTON	MA	02474
35-3-3	63 NORTH UNION ST	ROBERTS MIRIAM MARIE HOOVER	BALTERA CONSTANCE GRETCHEN	63 NORTH UNION ST		ARLINGTON	MA	02474
35-3-4	67 NORTH UNION ST	CRISTOBAL EDWIN L		67 NORTH UNION ST		ARLINGTON	MA	02474
35-3-5	69 NORTH UNION ST	TSEGAYE ELLENI &	ESHETU ABIY	4018 W ARCH ST		TAMPA	FL	33607
35-3-6	75 NORTH UNION ST	BIELASKI ROBERT		75 N UNION ST		ARLINGTON	MA	02474
35-3-8.A	7 FREMONT ST	CEVIK BATTAL		7 FREMONT ST		ARLINGTON	MA	02474
35.A-1-49	49 NORCROSS ST UNIT 1	KNAPP CLIFFORD M		49 NORCROSS ST #1		ARLINGTON	MA	02474
35.A-1-51	51 NORCROSS ST UNIT 2	SYNDER HILLARY & ERIC		51 NORCROSS ST	UNIT 2	ARLINGTON	MA	02474
36-1-1	83 NORTH UNION ST	FERREE ANDREW W	SCARANTINO GIULIA	83 N UNION ST		ARLINGTON	MA	02474
36-1-1.B	87 NORTH UNION ST	OCONNOR JEAN M	OCONNOR FREDERICK	30 MAYFLOWER RD		WOBURN	MA	01801
36-1-3	99 NORTH UNION ST	COOK KOBIE M ETAL/ TRUSTEES	BANNER-COOK REALTY TRUST	99 NORTH UNION ST		ARLINGTON	MA	02474
36-1-4	101 NORTH UNION ST	KRANZ REBECCA	SHIMON AVIHAI	101 NORTH UNION ST		ARLINGTON	MA	02474
36-1-5	105 NORTH UNION ST	JANELLE PAULINE F	PERNO JANET T	105 NORTH UNION ST		ARLINGTON	MA	02474
36-1-6	109 NORTH UNION ST	ADELFIGIO PETER A	BURKE JENNA M	109 NORTH UNION ST		ARLINGTON	MA	02474
36-1-7	111 NORTH UNION ST	BRISSETTE WILLIAM D &	RYAN ALANA	111 NORTH UNION ST		ARLINGTON	MA	02474
36-1-8	115 NORTH UNION ST	EBBS CHARLES CONOR	MUDD GENEVIEVE NATALIE	115 NORTH UNION ST		ARLINGTON	MA	02474
36-1-9.A	121 NORTH UNION ST	REED JOHN F/TRUSTEE	THE REED FAMILY TRUST	121 N UNION ST		ARLINGTON	MA	02474
36-1-9.B	7 GORDON RD	HATFIELD RUTH E		7 GORDON ROAD		ARLINGTON	MA	02474
36-1-9.C	11 GORDON RD	VERSACKAS JOHN J		11 GORDON ROAD		ARLINGTON	MA	02474
36-1-10.A	10 GORDON RD	HAMILTON STUART J/ TRUSTEE	MANNING REALTY TRUST	10 GORDON RD		ARLINGTON	MA	02474
36-1-10.B	6 GORDON RD	ALVAREZ STEVEN/LANA		6 GORDON ROAD		ARLINGTON	MA	02474
36-1-10.C	127 NORTH UNION ST	SINGH AVTAR		127 NORTH UNION ST		ARLINGTON	MA	02474

**CERTIFIED ABUTTERS LIST****Date: August 2, 2024****Subject Property Location: Work area is the roadways of North Union St from Norcross St. to Decatur St, Gordon Rd to #11, Wheaton Rd to #5-7, Patrick St to #6-8 & Purcell Rd to #9-11****Search Distance: 100 feet**

Parcel ID	Property Location	Owner 1	Owner 2	Mailing Address 1	Mailing 2	City/Town	State	Zip
36-1-11.A	70 DECATUR ST	APPRILLE JOHN F		70 DECATUR ST		ARLINGTON	MA	02474
36-1-11.B	131 NORTH UNION ST	PATTON HEIDI C		131 NORTH UNION ST		ARLINGTON	MA	02474
36-1-12.B	66 DECATUR ST	LUCA JEANETTE C/ TRUSTEE	LUCA DECATUR II TRUST	66 DECATUR ST		ARLINGTON	MA	02474
36-1-15.B	180--186 GARDNER ST	MBC REALTY LLC		P.O. BOX 724		WINCHESTER	MA	01890
36-1-19.A	100--168 GARDNER ST	ARLINGTON HOUSING AUTHORITY	MENOTOMY MANOR	4 WINSLOW ST		ARLINGTON	MA	02474
37-1-6.A	78--80 DECATUR ST	DECATUR-UNION REALTY LLC		59 UNION SQUARE		SOMERVILLE	MA	02143
37-1-7	76 DECATUR ST	GALLUZZO ELIZABETH C/ TRUSTEE	ECG REVOCABLE TRUST	76 DECATUR ST		ARLINGTON	MA	02474
37-1-8	138 NORTH UNION ST	DE OLIVEIRA MARIA FELIX		138 NORTH UNION ST		ARLINGTON	MA	02474
37-1-9	134 NORTH UNION ST	DECATUR-UNION REALTY LLC		59 UNION SQUARE		SOMERVILLE	MA	02143
37-2-4	0-LOT DECATUR ST	ADHIKARI LOKESH	ADHIKARI PUNAM SHIVAKOTI	50 MYSTIC VALLEY PKWY		ARLINGTON	MA	02474
37-2-5	77--79 DECATUR ST	BITTEKER STEVEN A & EVA B		4 WHITE ST		ARLINGTON	MA	02474
37.B-1-1	55 DECATUR ST UNIT 55	WALSH CHRISTINE M		55 DECATUR ST		ARLINGTON	MA	02474
37.B-1-2	57 DECATUR ST UNIT 57	GUPTA TUSHAR		22 INGALLS ST		WOBURN	MA	01801
37.B-2-1	59 DECATUR ST UNIT 59	LUCERO CARLOS G & REGINA F	LIFE ESTATE	59 DECATUR ST		ARLINGTON	MA	02474
37.B-2-2	61 DECATUR ST UNIT 61	MULAGE PRADEEP	KARKHANIS HANIKA	61 DECATUR ST		ARLINGTON	MA	02474
37.B-3-1	63 DECATUR ST UNIT 63	DENNEHY THERESE A		63 DECATUR ST		ARLINGTON	MA	02474
37.B-3-2	65 DECATUR ST UNIT 65	LARUE CYNTHIA		65 DECATUR ST		ARLINGTON	MA	02474
37.B-4-1	67 DECATUR ST UNIT 67	LIU SHUAI	HUANG HE	67 DECATUR ST		ARLINGTON	MA	02474
37.B-4-2	69 DECATUR ST UNIT 69	WONG CAROL K &	LEVIEL YAIR	69 DECATUR ST		ARLINGTON	MA	02474
37.B-5-1	71 DECATUR ST UNIT 71	RUBEL NOELLE		71 DECATUR ST		ARLINGTON	MA	02474
37.B-5-2	73 DECATUR ST UNIT 73	OPPEDISANO PASQUALE D-ETAL	OPPEDISANO ELIZABETH E	5 FARMERS CIR		ARLINGTON	MA	02474
38-2-1	187 EVERETT ST	TOWN OF ARLINGTON SCHOOL	THOMPSON SCHOOL	730 MASS AVE		ARLINGTON	MA	02476
38-2-5.A	48 NORTH UNION ST	TOWN OF ARLINGTON-PARK		730 MASS AVE		ARLINGTON	MA	02476
39-2-5.A	6 WHEATON RD	VALMINUTO JOHN J	VALMINUTO ELEANOR T	6 WHEATON RD		ARLINGTON	MA	02474
39-2-6	126 NORTH UNION ST	DHARGAY NORBU	LHAMO PENPOA	126 N UNION ST		ARLINGTON	MA	02474
39-2-7.A	102 NORTH UNION ST	GOROKHOVSKY EUGENE	GOROKHOVSKY MIRYAM	102 NORTH UNION ST		ARLINGTON	MA	02474
39-2-8.A	5--7 PATRICK ST	MARCOVICI SORIN M-ETAL	MARCOVICI CECILIA M	1 TODD RD		LEXINGTON	MA	02420
39-2-9.A	9--11 PATRICK ST	MC NULTY RITA		C/O JOHN O'CONNELL	47 AUBURN ST	MEDFORD	MA	02155
39-2-10.A	15--17 PATRICK ST	SULTAN FAREENA		7 SOUTH RINDGE AVE		LEXINGTON	MA	02420
39-6-5	7 WHEATON RD	KOHLI NEERAJ &	NARANG ESHA	7 WHEATON RD		ARLINGTON	MA	02474
39-6-6	130 NORTH UNION ST	MOW CHRISTOPHER P & JULIE C		130 NORTH UNION ST		ARLINGTON	MA	02474
39-7-1	5--7 PURCELL RD	PAGANIS ANASTASIA/ANTONIOS		5 PURCELL ROAD		ARLINGTON	MA	02474
39-7-3	15--17 PURCELL RD	ZHU GAOZHONG	SUN XIUDONG	680 SOUTH AVE	UNIT 15	WESTON	MA	02493
39-7-4	19--21 PURCELL RD	KELLY SHAWN P/TRUSTEE	KELLY IRREVOCABLE TRUST	21 PURCELL RD		ARLINGTON	MA	02474



CERTIFIED ABUTTERS LIST

Date: August 2, 2024

Subject Property Location: Work area is the roadways of North Union St from Norcross St. to Decatur St, Gordon Rd to #11, Wheaton Rd to #5-7, Patrick St to #6-8 & Purcell Rd to #9-11

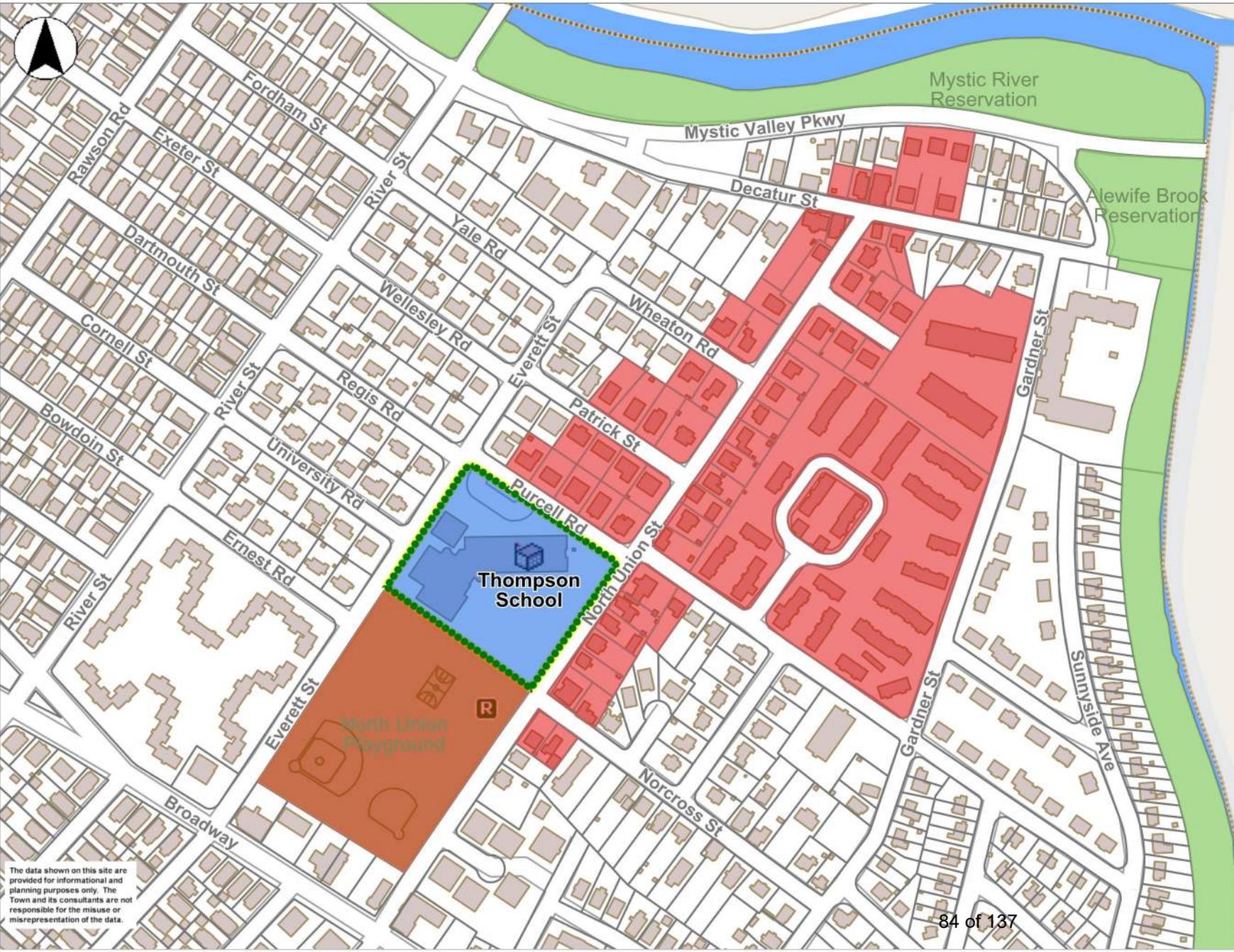
Search Distance: 100 feet

Parcel ID	Property Location	Owner 1	Owner 2	Mailing Address 1	Mailing 2	City/Town	State	Zip
39-7-8	14--16 PATRICK ST	KOMBOURAS PHYLLIS		16 PATRICK ST		ARLINGTON	MA	02474
39-7-9	10--12 PATRICK ST	SONG KENING	LI XIAO-YAN	112 WILLOW ST		ACTON	MA	01720
39-7-10	6--8 PATRICK ST	CUDDY MARTIN W & FERNANDA		6 PATRICK ST		ARLINGTON	MA	02474
39-7-11	2--4 PATRICK ST	LIBERACE BEATRICE		2 PATRICK ST		ARLINGTON	MA	02474
39-7-12	1--3 PURCELL RD	CHEN SAMUEL J & MARGARET H	TRS/CHEN FAMILY TRUST	18 FOX RUN LN		LEXINGTON	MA	02420

The Board of Assessors certifies the names and addresses of requested parties in interest, all abutters to work area within 100 feet.



Town of Arlington
Office of the Board of Assessors
730 Massachusetts Ave
Arlington, MA 02476
phone: 781.316.3050
email: assessors@town.arlington.ma.us



- Places by Category
 - Police Station
 - Fire Station
 - School
 - Library
 - Public Works
 - Recreation - Facilities
- Recreation - Fields Courts
 - Recreation - Fields Courts
 - Open Space: Conservation
 - Open Space - Minuteman
 - Open Space - Labels
- Open Space
 - Town, State, or Private
 - Other Town Owned
- MA Highways
 - Interstate
 - US Highway
 - Numbered Routes
- Abutting Towns
- Town Boundary
- Parcels
- Buildings
- Cemetery - Roads
 - Road1
 - Road2
 - Road3
 - Road4
- Pavement Markings
- Impervious Surface - For Buildings
 - Street
 - Sidewalk
 - Street Island
 - Driveway
 - Parking Lot
 - Bike Path
- Roads - For Large Scale (feet)
- Roads - For Small Scale (feet)
- Master Plan Base Map - Map
- Water Line
- Water Body

The data shown on this site are provided for informational and planning purposes only. The Town and its consultants are not responsible for the misuse or misrepresentation of the data.

ABUTTER NOTIFICATION

Notification to Abutters Under the Massachusetts Wetlands Protection Act and Arlington Wetlands Protection Bylaw

In accordance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40, and the Arlington Wetlands Protection Bylaw, you are hereby notified of the following:

The Conservation Commission will hold a virtual public meeting using Zoom, on *October 3, 2024* at 7:00 PM in accordance with the provisions of the Mass. Wetlands Protection Act (M.G.L. Ch. 131, s. 40, as amended), the Town of Arlington Bylaws Article 8, Bylaw for Wetland Protection, and in accordance with the Governor's Order Suspending Certain Provisions of the Open Meeting Law, G. L. c. 30A, § 20 relating to the COVID-19 emergency, for a Request for Determination of Applicability from *Boston Gas Company*, for *gas line replacement activities* at *the roadway right-of-way (ROW) at Gordon Road* within a floodplain. Please refer to the Commission's online meeting agenda for specific Zoom meeting access information.

A copy of the application and accompanying plans are available by request by contacting the Arlington Conservation at 781-316-3012 or concomm@town.arlington.ma.us. For more information, call the applicant (413-572-3224), the Arlington Conservation Commission (781-316-3012), or the DEP Northeast Regional Office (978-694-3200).

NOTE: Notice of the Public Hearing will be published at least five (5) business days in advance in *The Arlington Advocate* and will also be posted at least 48 hours in advance in the Arlington Town Hall.

AFFIDAVIT OF SERVICE

I, *Melissa Coady*, being duly sworn, do hereby state as follows: on *September 18*, I mailed a "Notification to Abutters" in compliance with the second paragraph of Massachusetts General Laws, Chapter 131, s.40, the DEP Guide to Abutter Notification dated April 8, 1994, and the Arlington Wetlands Protection Bylaw, Title V, Article 8 of the Town of Arlington Bylaws in connection with the following matter:

Gas Main Replacement Project

North Union Street and parts of Gordon Road, Wheaton Road, Patrick Street, and Purcell Road

The form of the notification, and a list of the abutters to whom it was provided and their addresses, are attached to this Affidavit of Service.

Signed under the pains and penalties of perjury, this *18th* of *September*.



Name



Town of Arlington, Massachusetts

Request for Determination of Applicability: Mystic Street and Old Mystic Street.

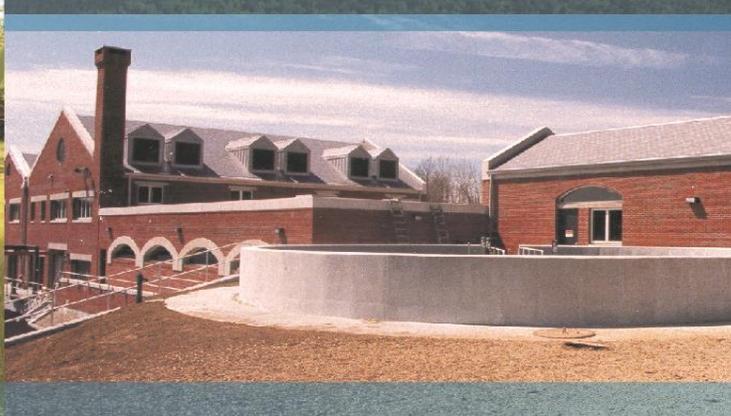
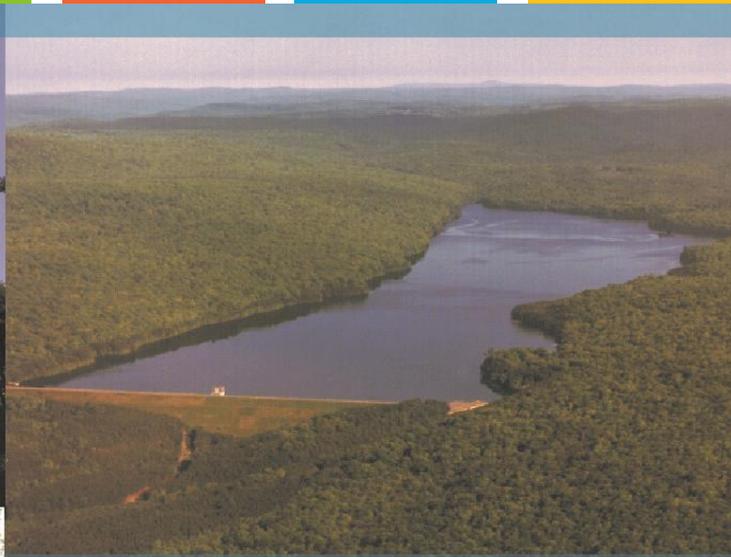
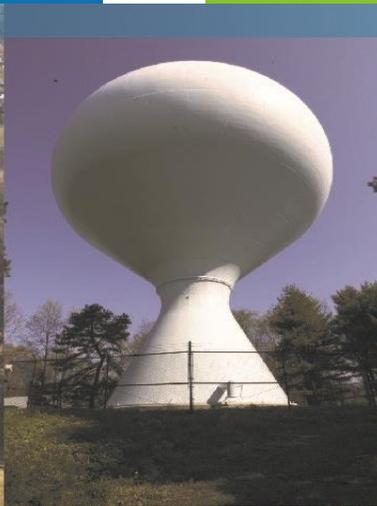
Summary:

Request for Determination of Applicability: Mystic Street and Old Mystic Street.

The Arlington Conservation Commission will hold a public hearing to consider a Request for Determination of Applicability under the Wetlands Protection Act (WPA) and Arlington Bylaw for Wetlands Protection for gas main replacements at Mystic Street and Old Mystic Street in Arlington.

ATTACHMENTS:

	Type	File Name	Description
▢	Reference Material	Mystic_Street_RDA_Signed.pdf	Mystic_Street_RDA_Signed.pdf



Gas Main Replacement Project
Arlington, Massachusetts

REQUEST FOR DETERMINATION OF APPLICABILITY

Boston Gas Company

September 2024

Tighe&Bond

WO#995780
N-5068-315
September 17, 2024

Arlington Conservation Commission
730 Massachusetts Avenue Annex
Arlington, Massachusetts 02476

Re: **Request for Determination of Applicability
Gas Main Replacement Project
Boston Gas Company
Mystic and Old Mystic Street (Arlington)**

Dear Members of the Commission:

On behalf of Boston Gas Company, Tighe & Bond respectfully submits this Request for Determination of Applicability (RDA) for gas main replacement activities within portions of Mystic Street and Old Mystic Street in Arlington, Massachusetts. The proposed project consists of the replacement of existing gas mains within these paved public roadways. A total of approximately 2,300 linear feet (lf) of replacement gas main is proposed in these two roadways. The location of the proposed maintenance work is shown on the Site Location Map (Figure 1) in Attachment B.

This RDA is being filed for work that is located adjacent to the limits of 100-year flooding, as well as within the 200-foot Riverfront Area of an unnamed perennial stream, and the 100-foot Buffer Zone to inland Bank. This area is subject to the Commission's jurisdiction under the Massachusetts Wetlands Protection Act (WPA, M.G.L. c. 131 § 40) as well as the Arlington Wetlands Protection Bylaw (Article 8) and their implementing regulations. All proposed work will occur within the existing paved roadways and will not impact these resource areas.

Please note that the gas service replacement work is considered exempt per 310 CMR 10.02(2)(a)(2) as it consists of "*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 the footprint of said structure or facility.*"

These exemption criteria are recognized under Section 1-A of the Arlington Regulations for Wetlands Protection, which states: "*Only those exemptions explicitly stated in the Act and state wetland regulations at 310 CMR 10.00 apply.*"

Tighe & Bond respectfully requests that the Arlington Conservation Commission issue a Negative Determination confirming that the proposed work does not require the filing of a Notice of Intent under the WPA or Article 8.

This RDA application includes the following items:

- Attachment A – WPA Form 1, Town of Arlington Fee Worksheet
- Attachment B – Figures
- Attachment C – Project Drawings (3/22/2024)
- Attachment D – Photographic Log



- Attachment E – National Grid Best Management Practice Details
- Attachment F – Abutter Information

The following text discusses the wetland resource areas, proposed activities, and proposed protective measures.

Wetland Resource Areas

A review of data available through the Massachusetts Geographic Information System (MassGIS) indicates that a portion of the Project Site is located adjacent to Bordering Land Subject to Flooding (BLSF). Wetland resource areas are depicted in the attached Orthophotograph, provided as Figure 3 in Attachment B.

Land Under Waterbodies and Waterways

Land Under Waterbodies and Waterways (LUWW) is defined at 310 CMR 10.56(2)(a) as “*the land beneath any creek, river, stream, pond or lake.*”

The LUWW near the limits of work is associated with an unnamed perennial stream and with Upper Mystic Lake. Upper Mystic Lake is also characterized as a Great Pond, defined as any pond or lake that contained more than 10 acres in its natural state, giving the resource area additional protection per Arlington wetland bylaws.

Bordering Land Subject to Flooding

The Federal Emergency Management Agency (FEMA) Flood Insurance Study (FIS) and Flood Insurance Rate Map (FIRM) No. 25017C0417E, effective June 3, 2010, were consulted to evaluate the presence of BLSF within the Project Site. According to the FIRM, the project area is adjacent to Zone AE, defined as an area with a 1% annual chance of flooding. According to FEMA, the limits of 100-year flooding in this area’s elevation is 12.61 feet. BLSF near the Project Site consists of lands adjacent to Upper Mystic Lake on the east side of Mystic Street.

The proposed gas main replacement activity will not result in impacts to BLSF as the work will only occur within the existing rights-of-way of Mystic and Old Mystic Street. Work areas will be backfilled and restored to pre-existing conditions, and there will be no change in elevation or character of the area.

Rare Species

The Massachusetts Natural Heritage and Endangered Species Program (NHESP) Atlas (15th edition, effective August 2021) was reviewed during the preparation of this RDA. The Project Site does not fall within *Priority Habitats of Rare Species* or *Estimated Habitats of Rare Wildlife*, as shown on Figure 2 in Attachment B.

Proposed Activities

The proposed project consists of the installation of approximately 2,300 lf of gas main within existing roadways, as depicted on the Project Drawings in Attachment C. Table 1, below, describes the proposed work.



TABLE 1
Summary of Gas Main Replacements

Street	Gas Main Maintenance (linear feet)	Maintenance	Work within 200-foot Riverfront Area	Work within 100-foot Wetland Buffer
Mystic Street, from 455 Mystic Street to Robin Hood Road	1,720 lf	Replacement of 6-inch main with 12-inch, PSIG Plastic	Yes	Yes
Old Mystic Road, from 455 Mystic Street to Robin Hood Road	580 lf	Replacement of existing 4-inch gas main with 4-inch, PSIG Plastic	Yes	No

The proposed gas main replacement work will require the excavation of approximately two-foot-wide trenches for installation. The trench bottoms will be excavated and graded so that the pipes will be supported for their entire lengths on undisturbed bottom at a depth of approximately three feet below surface grade. Upon the completion of work, the trenches will be backfilled, and the site will be restored to pre-existing grades. The existing gas mains will be purged and abandoned in place. Refer to the Project Drawings in Attachment C for additional details.

The areas where the work is proposed consist of existing paved roadways. The proposed work will not change the general characteristics of the area, including grades, as the entire project is limited to previously developed and disturbed areas.

Protective Measures

Work will be conducted in accordance with National Grid’s EG-303NE Best Management Practices document. Please refer to Attachment E for further details. During the gas line construction, erosion control measures (e.g., straw bales, silt fence, straw wattles, catch basin silt sack inserts) will be installed as deemed necessary.

Application Requirements

Abutters within 100 feet of the Project Site have been notified in accordance with Section 8 of the Arlington Regulations for Wetlands Protection. The abutter notification form, certified list of abutters, and affidavit of service are provided in Attachment F.



Summary

We look forward to having the opportunity to discuss this project with the Arlington Conservation Commission at the next scheduled public hearing on October 13, 2024. We anticipate these materials are sufficient for the Commission to issue a Negative Determination confirming the proposed project may proceed without the filing of an NOI.

Should you have any questions regarding this application or require any additional information, please do not hesitate to contact me at (413) 572-3224 or via email at MPCoady@tighebond.com. Thank you in advance for your attention to this matter.

Respectfully,

TIGHE & BOND, INC.



Melissa P. Coady
Senior Project Manager

Enclosures

Copy: MassDEP Northeast Regional Office - Division of Wetlands and Waterways
Jaime Walker, National Grid

ATTACHMENT A



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:

Boston Gas Company (c/o Jaime Walker)		Jaime.Walker@nationalgrid.com	
Name		E-Mail Address	
170 Data Drive			
Mailing Address			
Waltham		MA	02451
City/Town		State	Zip Code
(978) 551-1156			
Phone Number		Fax Number (if applicable)	

2. Representative (if any):

Tighe & Bond, Inc.			
Firm			
Melissa Coady		MPCoady@tighebond.com	
Contact Name		E-Mail Address	
53 Southampton Road			
Mailing Address			
Westfield		MA	01085
City/Town		State	Zip Code
(413) 572-3224			
Phone Number		Fax Number (if applicable)	

B. Determinations

1. I request the Arlington 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:

Arlington
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

C. Project Description

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

<u>Mystic and Old Mystic Street</u> Street Address	<u>Arlington</u> City/Town
<u>N/A - Roadway Right-of-Way (ROW)</u> Assessors Map/Plat Number	<u>N/A - Roadway ROW</u> Parcel/Lot Number

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

The project area is located with the paved public ROW of the streets listed above. Refer to the attached cover letter and figures for additional detail.

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

<u>Figure 1 - Site Location Map</u> Title	<u>9/6/2024</u> Date
<u>Figure 2 - Priority Resources Map</u> Title	<u>9/6/2024</u> Date
<u>Figure 3 - Orthophotograph</u> Title	<u>9/10/2024</u> Date

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

The proposed work consists of replacing existing subsurface gas mains within portions of Mystic and Old Mystic Street in Arlington. Please refer to the cover letter for more details.



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).

310 CMR 10.02(2)(a)(2) / 310 CMR 10.02(2)(b)(2)(i) / M.G.L. chapter 131 § 40 first paragraph - 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...

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.)



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:

Town of Arlington
Name

730 Massachusetts Avenue Annex
Mailing Address

Arlington
City/Town

MA
State

02476
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.

Jaime Walker
Signature of Applicant

9/17/2024
Date

[Signature]
Signature of Representative (if any)

9/17/2024
Date

BYLAW FILING FEES AND TRANSMITTAL FORM

Rules:

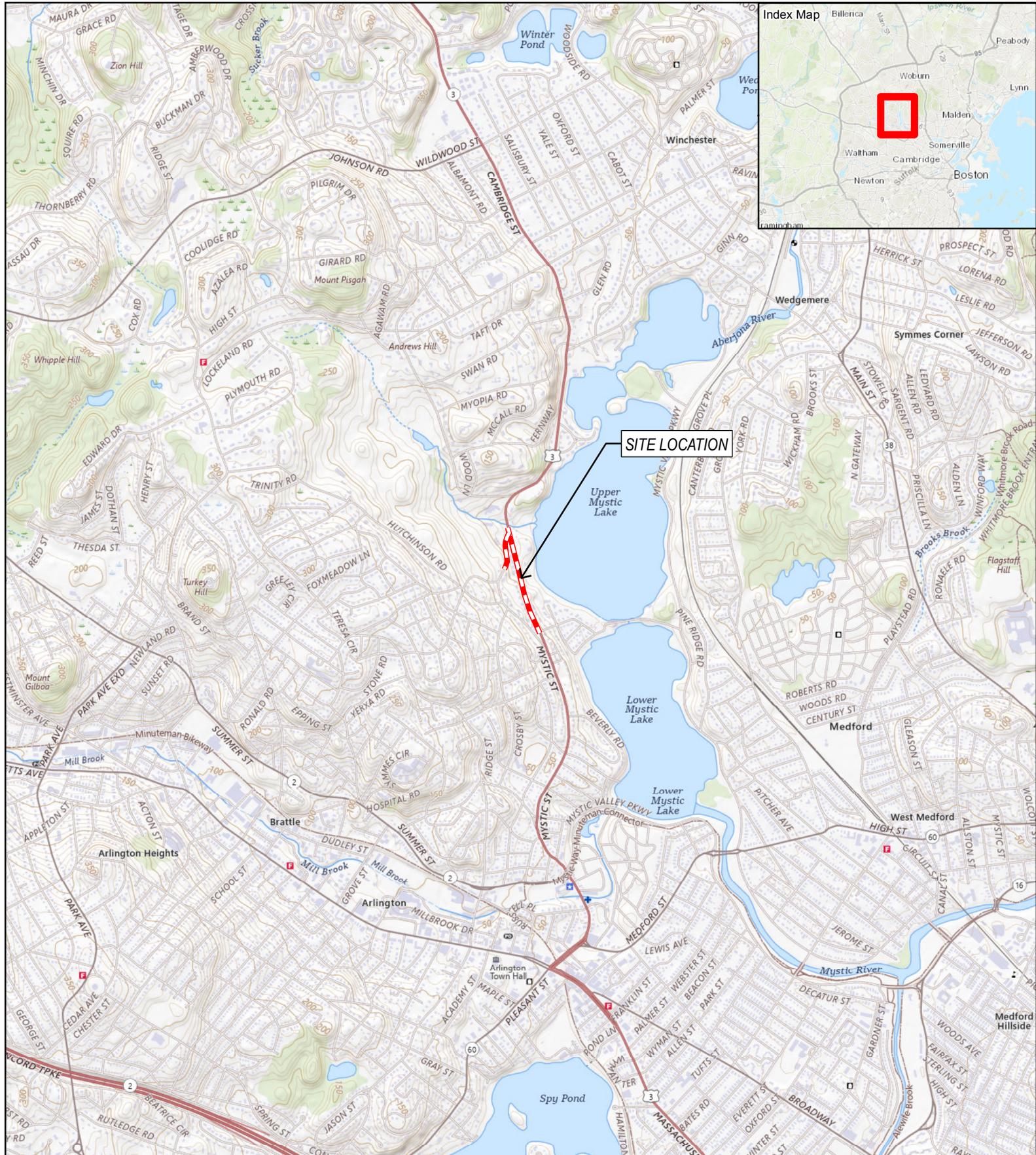
1. Fees are payable at the time of filing the application and are non-refundable.
2. Fees shall be calculated per schedule below.
3. Town, County, State, and Federal Projects are exempt from fees.
4. These fees are in addition to the fees paid under M.G.L. Ch. 131, s.40 (ACT).

Fee Schedule (ACC approved 1/8/15):

\$	No./Area	Category
150	1	(R1) RDA - \$150 local fee, no state fee
		(N1) Minor Project - \$200 (house addition, tennis court, swimming pool, utility work, work in/on/or affecting any body of water, wetland or floodplain).
		(N2) Single Family Dwelling - \$600
		(N3) Multiple Dwelling Structures - \$600 + \$100 per unit all or part of which lies within 100 feet of wetlands or within land subject to flooding.
		(N4) Commercial, Industrial, and Institutional Projects - \$800 + 50¢/s.f. wetland disturbed; 2¢/s.f. land subject to flooding or buffer zone disturbed.
		(N5) Subdivisions - \$600 + \$4/l.f. feet of roadway sideline within 100 ft. of wetlands or within land subject to flooding.
		(N6) Other Fees - copies, printouts; per public records law
		(N7) Minor Project Change - \$50
		(N8) Work on Docks, Piers, Revetments, Dikes, etc - \$4 per linear foot
		(N9) Resource Boundary Delineation (ANRAD) - \$1 per linear foot
		(N10) Certificate of Compliance (COC or PCOC) - No charge if before expiration of Order, \$200 if after that date.
		(N11) Amendments - \$300 or 50% of original local filing fee, whichever is less.
		(N12) Extensions -
		a. Single family dwelling or minor project - \$100.
		b. Other - \$150.
		(N13) Consultant Fee -per estimate from consultant
<i>Subtotal</i>	\$150	
	+\$150	Legal Notice Charge
	TOTAL \$300	

Note: Submit this form along with the forms submitted for the ACT - the "Wetlands Filing Fee Calculations Worksheet," and the "Notice of Intent Fee Transmittal Form."

ATTACHMENT B

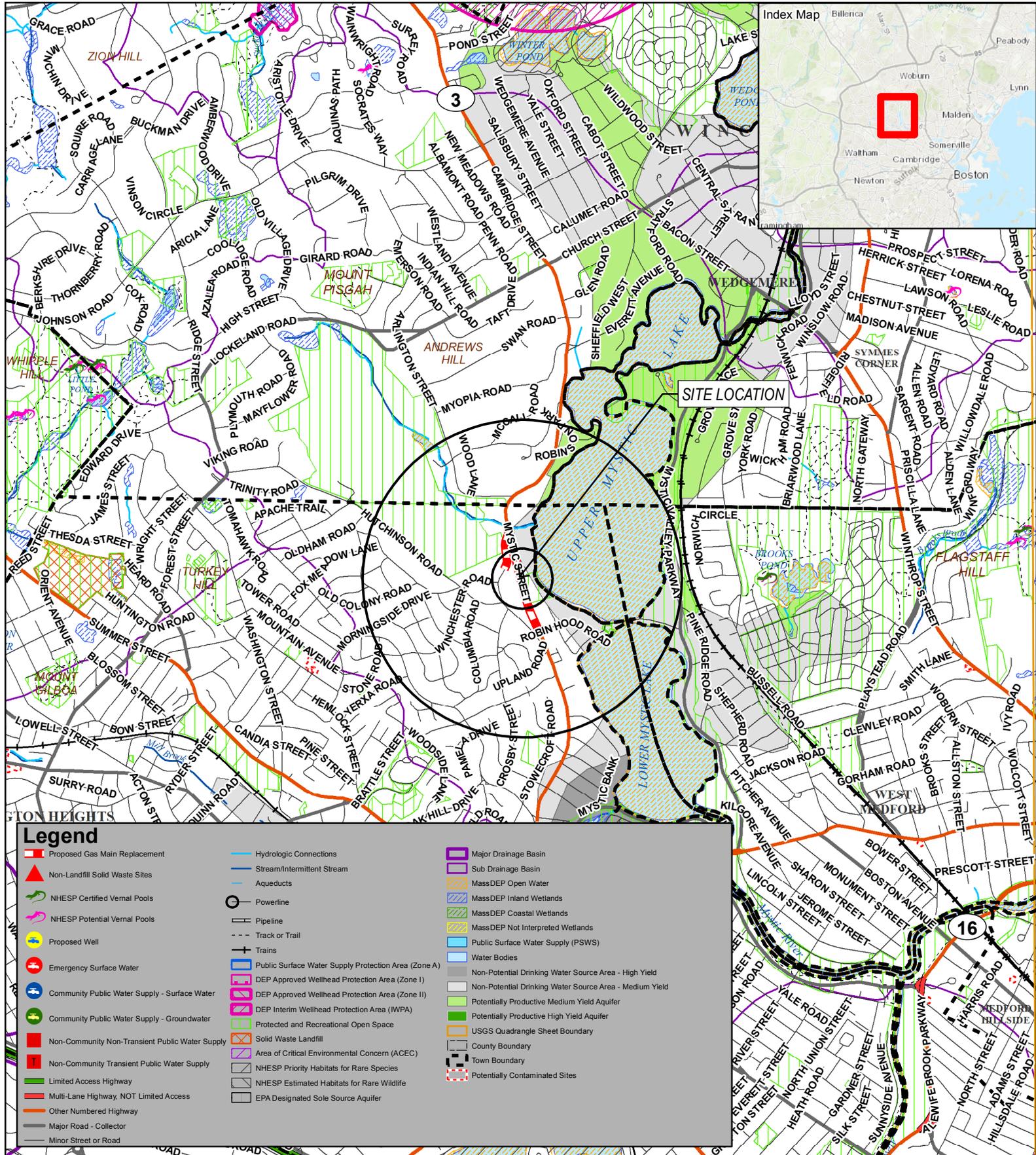


GAS MAIN REPLACEMENT PROJECT

Site Location

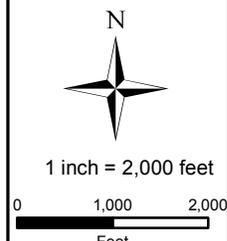
Mystic Street
Arlington, Massachusetts
Figure 1

Based on USGS National Map
Topo Basemap for Lexington
Contour Interval Equals 3 Meters
Circles indicate 500-foot and half-mile radii.



Legend

Proposed Gas Main Replacement	Hydrologic Connections	Major Drainage Basin
Non-Landfill Solid Waste Sites	Stream/Intermittent Stream	Sub Drainage Basin
NHESP Certified Vernal Pools	Aqueducts	MassDEP Open Water
NHESP Potential Vernal Pools	Pipeline	MassDEP Inland Wetlands
Proposed Well	Track or Trail	MassDEP Coastal Wetlands
Emergency Surface Water	Trains	MassDEP Not Interpreted Wetlands
Community Public Water Supply - Surface Water	Public Surface Water Supply Protection Area (Zone A)	Public Surface Water Supply (PSWS)
Community Public Water Supply - Groundwater	DEP Approved Wellhead Protection Area (Zone I)	Water Bodies
Non-Community Non-Transient Public Water Supply	DEP Approved Wellhead Protection Area (Zone II)	Non-Potential Drinking Water Source Area - High Yield
Non-Community Transient Public Water Supply	DEP Interim Wellhead Protection Area (IWPA)	Non-Potential Drinking Water Source Area - Medium Yield
Limited Access Highway	Protected and Recreational Open Space	Potentially Productive Medium Yield Aquifer
Multi-Lane Highway, NOT Limited Access	Solid Waste Landfill	Potentially Productive High Yield Aquifer
Other Numbered Highway	Area of Critical Environmental Concern (ACEC)	USGS Quadrangle Sheet Boundary
Major Road - Collector	NHESP Priority Habitats for Rare Species	County Boundary
Minor Street or Road	NHESP Estimated Habitats for Rare Wildlife	Town Boundary
	EPA Designated Sole Source Aquifer	Potentially Contaminated Sites



GAS MAIN REPLACEMENT PROJECT

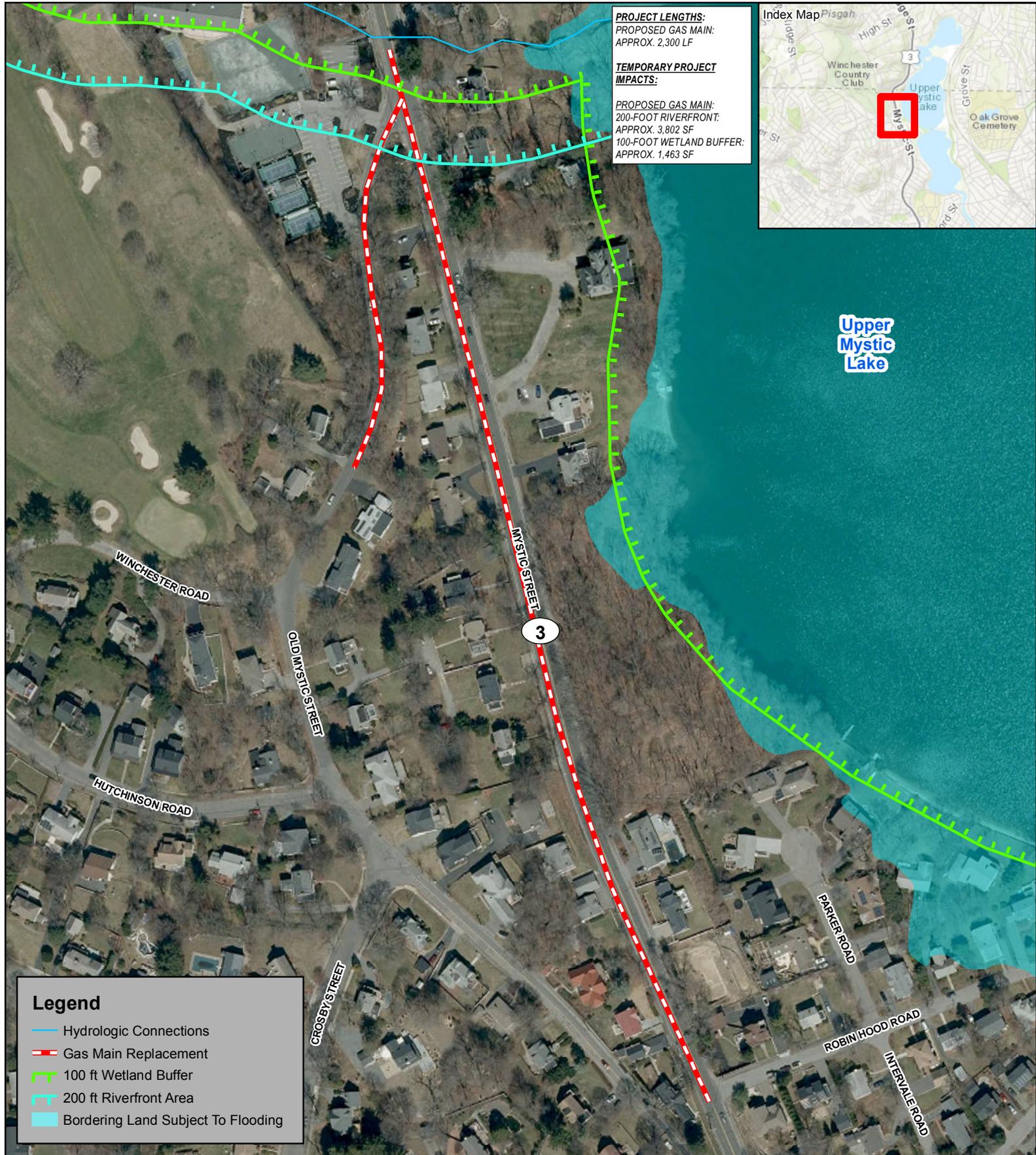
Priority Resources

Mystic Street
 Arlington, Massachusetts
 Figure 2

Data source: Bureau of Geographic Information (MassGIS), Commonwealth of Massachusetts, Executive Office of Technology
 Circles indicate 500-foot and half-mile radii.
 Data valid as of September 2024.

102 of 137

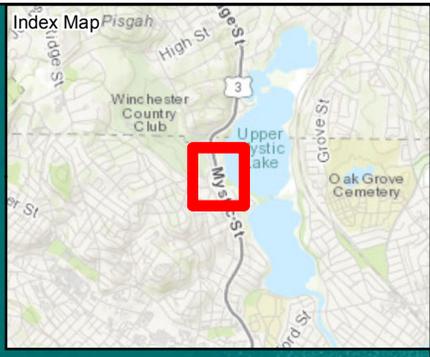
nationalgrid
 Tighe&Bond



PROJECT LENGTHS:
 PROPOSED GAS MAIN:
 APPROX. 2,300 LF

TEMPORARY PROJECT IMPACTS:

PROPOSED GAS MAIN:
 200-FOOT RIVERFRONT:
 APPROX. 3,802 SF
 100-FOOT WETLAND BUFFER:
 APPROX. 1,463 SF



Legend

- Hydrologic Connections
- - - Gas Main Replacement
- - - 100 ft Wetland Buffer
- - - 200 ft Riverfront Area
- Bordering Land Subject To Flooding

1 inch = 200 feet

0 90 180
Feet

GAS MAIN REPLACEMENT PROJECT

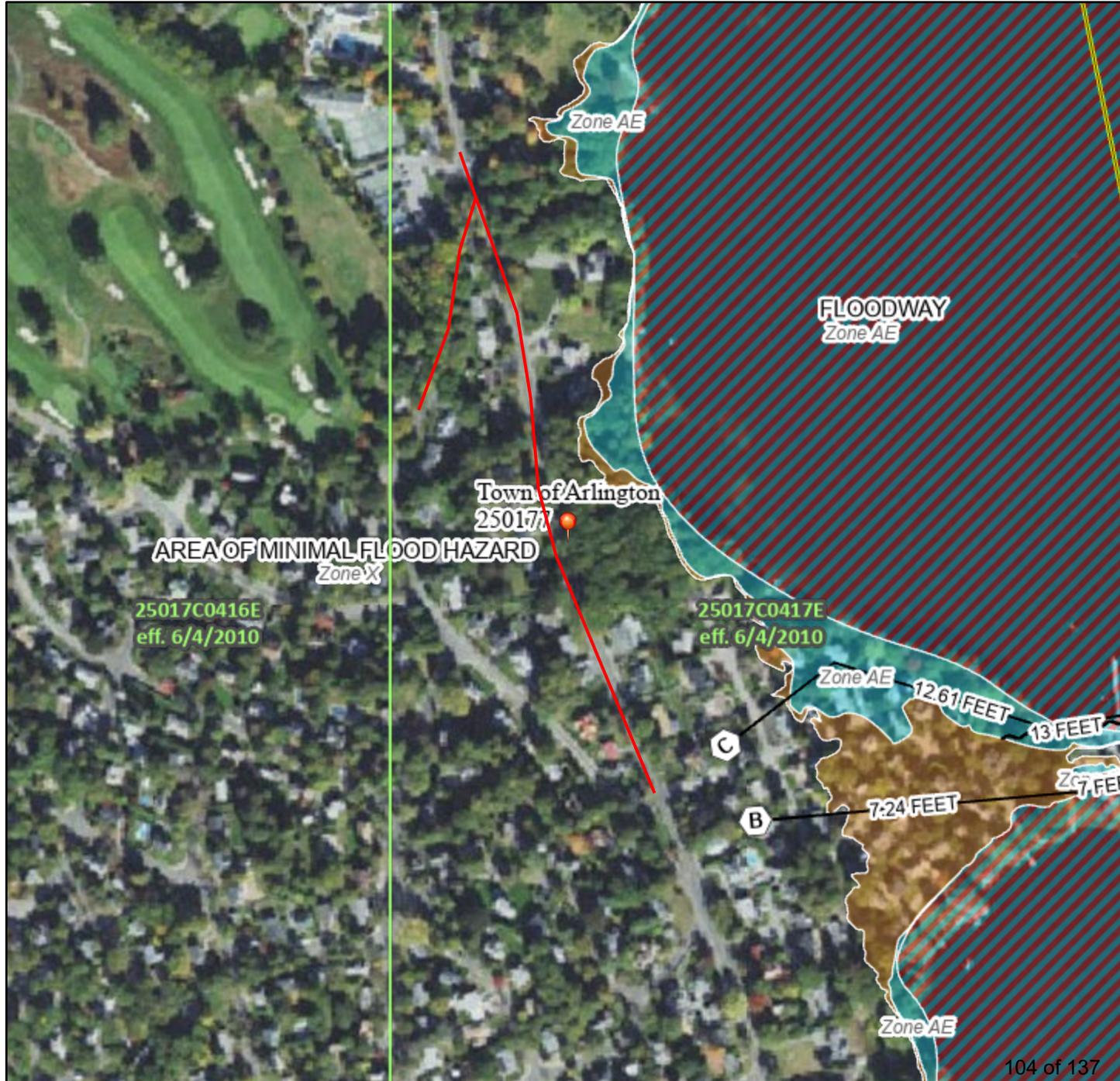
Orthophotograph
 Mystic Street
 Arlington, Massachusetts
 Figure 3

Based on MassGIS Color Orthophotography (2023).

National Flood Hazard Layer FIRMMette



71°9'35"W 42°26'8"N



Legend

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

SPECIAL FLOOD HAZARD AREAS	Without Base Flood Elevation (BFE) <i>Zone A, V, A99</i>	With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>
	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 <i>Zone X</i>	Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>	Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>	Area with Flood Risk due to Levee <i>Zone D</i>

OTHER AREAS	NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>	Effective LOMRs	Area of Undetermined Flood Hazard <i>Zone D</i>

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

OTHER FEATURES	Cross Sections with 1% Annual Chance Water Surface Elevation	Coastal Transect	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

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 9/3/2024 at 10:09 AM 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.

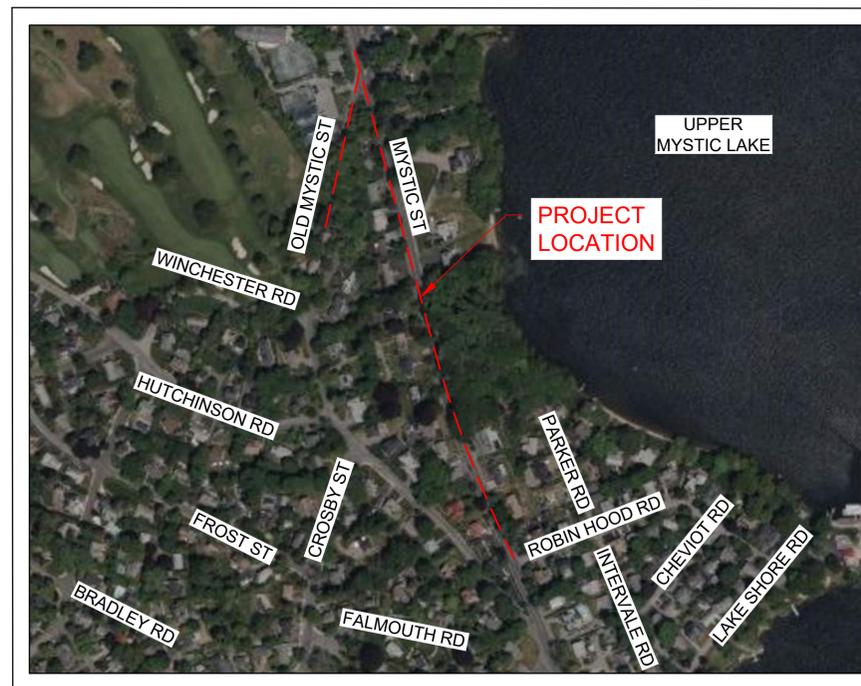
ATTACHMENT C

nationalgrid

355-455 MYSTIC ST & OLD MYSTIC ST GAS MAIN REPLACEMENT 4" & 6" BS & 6" CI (L.P.) & 12" CI (25 PSIG) TO 4" & 12" PL (25 PSIG) (355-455) MYSTIC ST & OLD MYSTIC ST, ARLINGTON, MA W.O. NO.: 995780

PIPE TOTALS (L.P.)			
DIAMETER	MATERIAL	ABANDONED	INSTALLED
4"	BS	565 LF	--
6"	BS	30 LF	--
6"	CI	1,680 LF	--

PIPE TOTALS (25 PSIG)			
DIAMETER	MATERIAL	ABANDONED	INSTALLED
4"	PL	--	580 LF
12"	CI	1,720 LF	--
12"	PL	--	1,720 LF



INDEX OF SHEETS		
SHEET	NAME	TITLE
1	DDS-ARL-71230389 G-001	COVER - LOCATION MAP
2	DDS-ARL-71230389 G-002	CONSTRUCTION NOTES
3	DDS-ARL-71230389 G-003	CONSTRUCTION NOTES & BILL OF MATERIALS
4	DDS-ARL-71230389 C-001	OVERALL SCOPE OF WORK
5	DDS-ARL-71230389 C-002	LAYOUT SHEET
6	DDS-ARL-71230389 C-003	LAYOUT SHEET
7	DDS-ARL-71230389 C-004	LAYOUT SHEET
8	DDS-ARL-71230389 C-005	LAYOUT SHEET
9	DDS-ARL-71230389 C-101	TIE-IN & ABANDONMENT DETAILS
10	DDS-ARL-71230389 C-201	STANDARD DETAILS
11	DDS-ARL-71230389 C-202	STANDARD DETAILS
12	DDS-ARL-71230389 C-203	STANDARD DETAILS
13	DDS-ARL-71230389 C-204	STANDARD DETAILS



LOCATION MAP
LAT/LON: 42°25'56.2"N, 71°09'18.3"W
ARLINGTON, MA
SCALE: 1:300



THE DDS COMPANIES
153 CORDAVILLE RD, SUITE 210
SOUTHBOROUGH, MA 01772
PHONE (781) 385-4644

BOSTON GAS COMPANY
d/b/a
nationalgrid
170 DATA DRIVE
WALTHAM, MA 02451

IFC



NO.	DESCRIPTION	DATE	DR.BY	CK.BY	APP.BY
2	UPDATES TO OVERALL LAYOUT SHEET	03/22/2024	WMK	SDS	MEP
1	REVISION REQUEST - NOTES, BOM, & PLANS	03/12/2024	WMK	SJK	MEP
0	ISSUED FOR CONSTRUCTION	01/18/2024	KEA	WMK	MEP

355-455 MYSTIC ST & OLD MYSTIC ST
GAS MAIN REPLACEMENT
MYSTIC ST & OLD MYSTIC ST
ARLINGTON, MA

COVER - LOCATION MAP

DWG SIZE	DESIGNER	ENGINEER	DATE	ASSET I.D.	W.O. NO.:
22"X34"	DDS COMPANIES	XXXXXXXX	03/22/2024	XXXXXXXX	995780

PAGE 01 OF 13	
DRAWING NO.	SHEET NO.
G-001	01

DESIGN PARAMETERS:

WO#995780 - 355-455 MYSTIC ST, ARL. & OLD MYSTIC ST
 SYSTEM NUMBER: WINCHESTER/WOBURN 25#
 SYSTEMS' MOPS (PSIG, OR "LP"): 25 PSIG
 EXPECTED OPERATING PRESSURE RANGE: 10 - 25 PSIG
 DESIGN DAY TEMPERATURE (°F): 0°F
 MIN & MAX OPERATING TEMPERATURE RANGE (°F): -20°F TO +73°F

STREET NAME: MYSTIC ST
 SIZING RECOMMENDATION: 12IN PL
 DESIGN DAY FLOW IN NEW PIPELINE SEGMENTS (MCFH): 300
 SINGLE FEED SYSTEM: NO

STREET NAME: OLD MYSTIC ST
 SIZING RECOMMENDATION: 4IN PL
 DESIGN DAY FLOW IN NEW PIPELINE SEGMENTS (MCFH): 10
 SINGLE FEED SYSTEM: NO

NOTE: OKAY TO ABANDON LP MAIN WITHIN SCOPE, ENSURE ALL SERVICES WITHIN SCOPE HAVE BEEN RELAYED FROM LP TO 25 PSIG MAIN PRIOR TO ABANDONMENT

REVIEWED BY: KASEY ELKIN. REVIEW DATE: 05/04/2023

PROJECT SCOPE:

AS PART OF THE CIMNRP>=16 PROGRAM, LPP INTEGRITY MANAGEMENT RECOMMENDS THE RELAY OF:

- APRX 1665 FEET OF PARALLEL 6 INCH, LP CAST IRON (1906), APRX 30 FEET OF 6 INCH, LP BARE STEEL (1910) AND APRX 1720 FEET OF PARALLEL 12 INCH, 25 PSIG CAST IRON (1920) WITH APRX 1720 FEET OF 12 INCH, 25 PSIG PLASTIC IN MYSTIC ST FROM ROBIN HOOD RD TO #455 MYSTIC ST (AT THE WNC TOWN LINE), AND
- APRX 565 FEET OF 4 INCH, LP BARE STEEL (1957) AND APRX 15 FEET OF 6 INCH, LP CAST IRON (1927) WITH APRX 580 FEET OF 4 INCH, 25 PSIG PLASTIC IN OLD MYSTIC ST FROM MYSTIC ST TO #81 OLD MYSTIC ST.

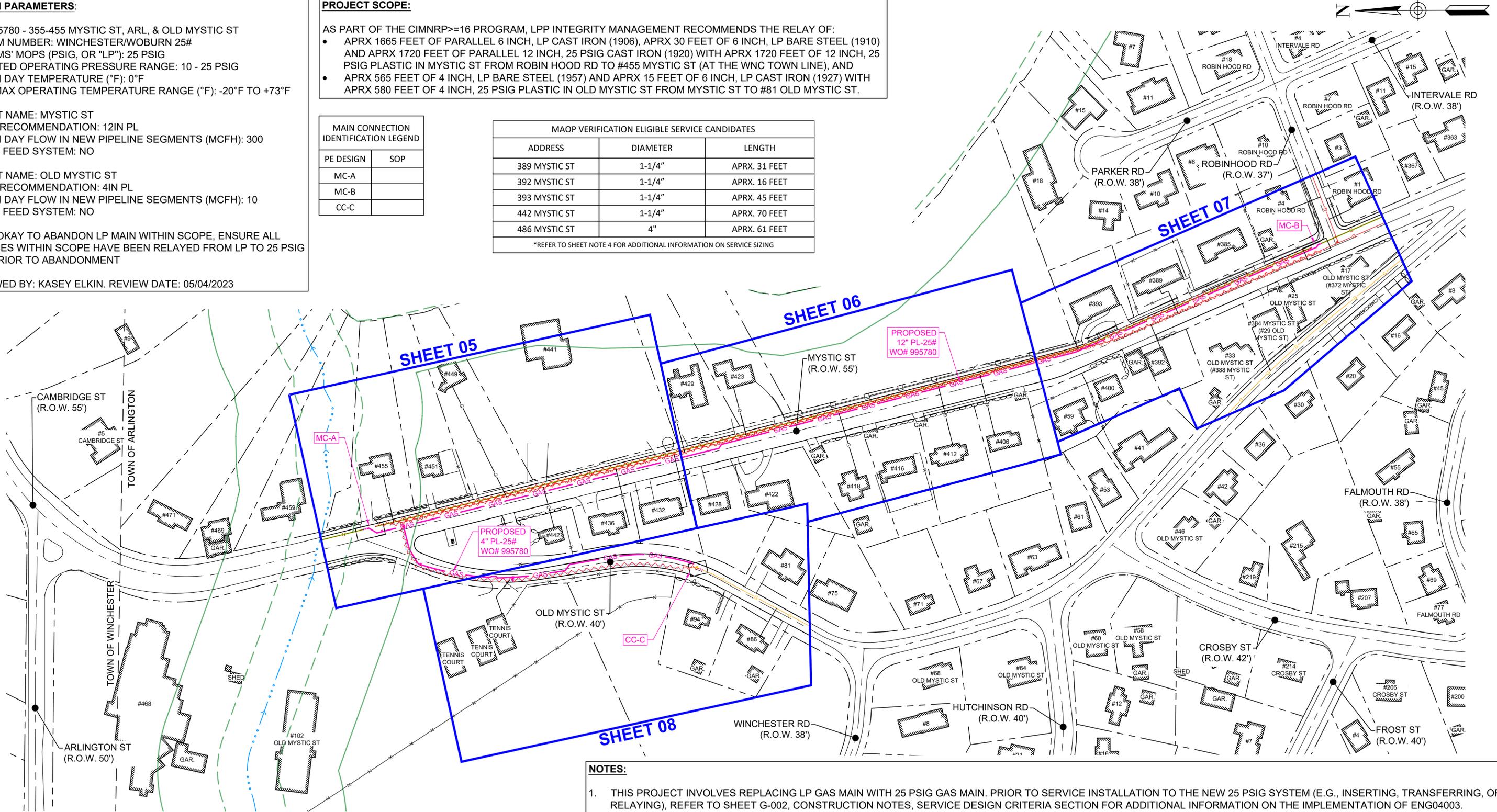
MAIN CONNECTION IDENTIFICATION LEGEND

PE DESIGN	SOP
MC-A	
MC-B	
CC-C	

MAOP VERIFICATION ELIGIBLE SERVICE CANDIDATES

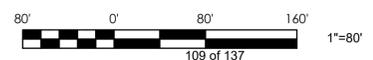
ADDRESS	DIAMETER	LENGTH
389 MYSTIC ST	1-1/4"	APRX. 31 FEET
392 MYSTIC ST	1-1/4"	APRX. 16 FEET
393 MYSTIC ST	1-1/4"	APRX. 45 FEET
442 MYSTIC ST	1-1/4"	APRX. 70 FEET
486 MYSTIC ST	4"	APRX. 61 FEET

*REFER TO SHEET NOTE 4 FOR ADDITIONAL INFORMATION ON SERVICE SIZING



NOTES:

- THIS PROJECT INVOLVES REPLACING LP GAS MAIN WITH 25 PSIG GAS MAIN. PRIOR TO SERVICE INSTALLATION TO THE NEW 25 PSIG SYSTEM (E.G., INSERTING, TRANSFERRING, OR RELAYING), REFER TO SHEET G-002, CONSTRUCTION NOTES, SERVICE DESIGN CRITERIA SECTION FOR ADDITIONAL INFORMATION ON THE IMPLEMENTATION OF ENG04003.
- PER INR06002, NEW STEEL OR PLASTIC GAS MAIN INSTALLATIONS IN EXCESS OF 2,500 FEET REQUIRE A SNIFF CHECK TO ASSESS THE NEED FOR ADDITIONAL MONITORING AND/OR SUPPLEMENTAL ODORIZATION. PLEASE CONTACT I&R PRIOR TO WORK TO COORDINATE THE SNIFF CHECK.
- REFER TO SHEET G-003 FOR BILL OF MATERIALS, ITEM NUMBER PART DESCRIPTIONS.
- THE SERVICES ASSOCIATED WITH THE ADDRESSES IDENTIFIED IN THE "MAOP VERIFICATION ELIGIBLE SERVICE CANDIDATES" TABLE ARE CONSIDERED ACCEPTABLE FOR MATERIAL REUSE IN ACCORDANCE WITH THE CRITERIA ESTABLISHED IN ENG04003. THIS POLICY DOES NOT EVALUATE SIZING AND IF SIZING IS NECESSARY, THE CUSTOMER METER SERVICE (CMS) GROUP SHALL EVALUATE THE SERVICE PRIOR TO ANY SERVICE TRANSFERS. IF CMS RECOMMENDS A DIFFERENT SERVICE SIZE UPON REVIEW, THE SERVICES SHALL BE INSERTED OR RELAYED, WHICHEVER MAY BE APPLICABLE, FOLLOWING THE RECOMMENDATION OF THE SERVICE SIZING EVALUATION.



THE DDS COMPANIES
 153 CORDAVILLE RD, SUITE 210
 SOUTHBOROUGH, MA 01772
 PHONE (781) 385-4644

BOSTON GAS COMPANY
 a/b/a
nationalgrid
 170 DATA DRIVE
 WALTHAM, MA 02451

IFC



NO.	DESCRIPTION	DATE	DR BY	CK BY	APP BY
2	UPDATES TO OVERALL LAYOUT SHEET	03/22/2024	WMK	SDS	MEP
1	REVISION REQUEST - NOTES, BOM, & PLANS	03/12/2024	WMK	SJK	MEP
0	ISSUED FOR CONSTRUCTION	01/18/2024	KEA	WMK	MEP

355-455 MYSTIC ST & OLD MYSTIC ST
 GAS MAIN REPLACEMENT
 MYSTIC ST & OLD MYSTIC ST
 ARLINGTON, MA

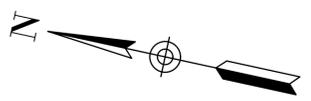
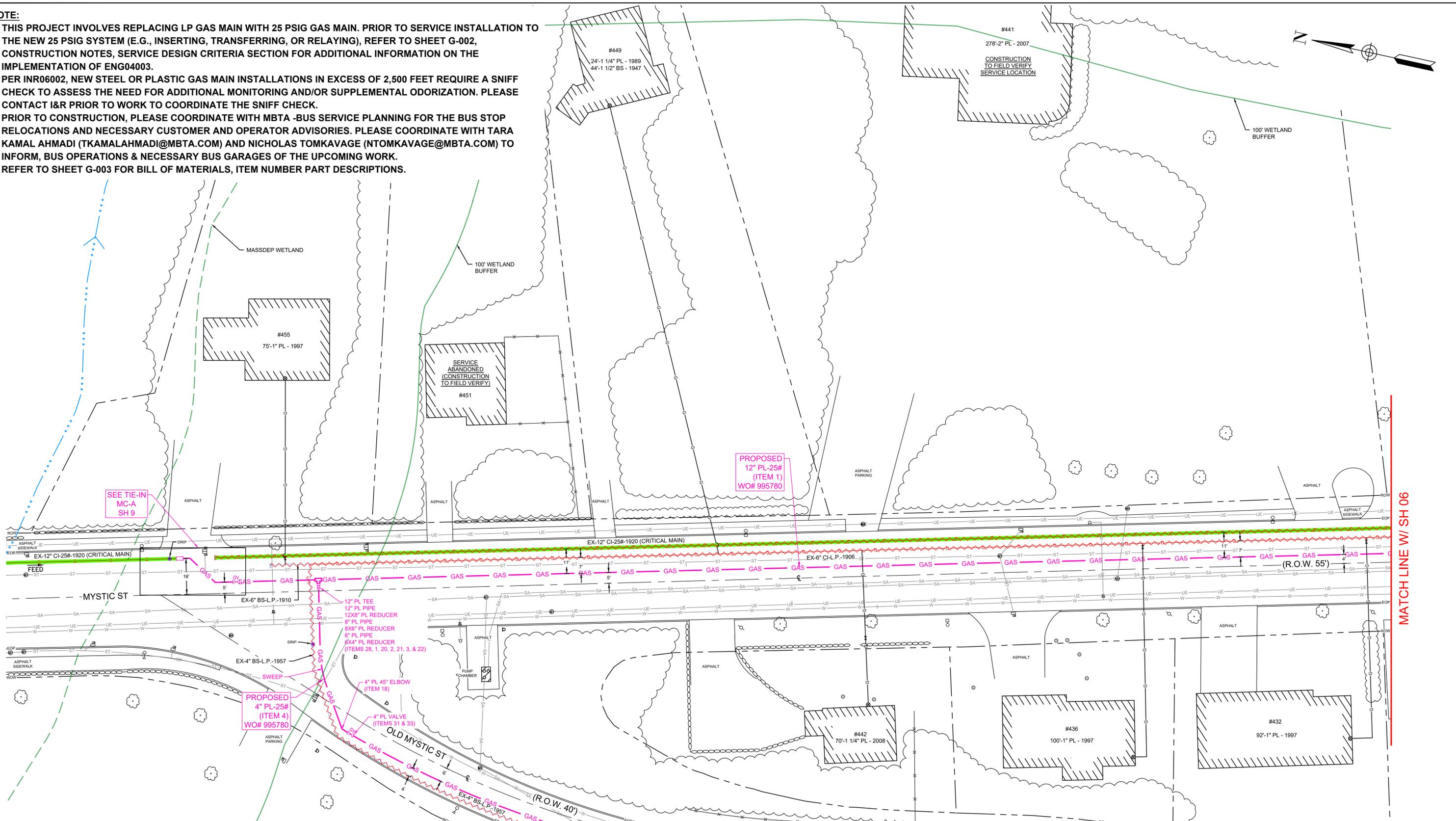
OVERALL SCOPE OF WORK

DWG SIZE	DESIGNER	ENGINEER	DATE	ASSET I.D.	W.O. NO.
22"X34"	DDS COMPANIES	XXXXXXX	03/22/2024	XXXXXXX	995780

PAGE 04 OF 13

DRAWING NO.	SHEET NO.
C-001	04

- NOTE:**
1. THIS PROJECT INVOLVES REPLACING LP GAS MAIN WITH 25 PSIG GAS MAIN. PRIOR TO SERVICE INSTALLATION TO THE NEW 25 PSIG SYSTEM (E.G., INSERTING, TRANSFERRING, OR RELAYING), REFER TO SHEET G-002, CONSTRUCTION NOTES, SERVICE DESIGN CRITERIA SECTION FOR ADDITIONAL INFORMATION ON THE IMPLEMENTATION OF ENG04003.
 2. PER INR06002, NEW STEEL OR PLASTIC GAS MAIN INSTALLATIONS IN EXCESS OF 2,500 FEET REQUIRE A SNIFF CHECK TO ASSESS THE NEED FOR ADDITIONAL MONITORING AND/OR SUPPLEMENTAL ODORIZATION. PLEASE CONTACT I&R PRIOR TO WORK TO COORDINATE THE SNIFF CHECK.
 3. PRIOR TO CONSTRUCTION, PLEASE COORDINATE WITH MBTA -BUS SERVICE PLANNING FOR THE BUS STOP RELOCATIONS AND NECESSARY CUSTOMER AND OPERATOR ADVISORIES. PLEASE COORDINATE WITH TARA KAMAL AHMADI (TKAMALAHMADI@MBTA.COM) AND NICHOLAS TOMKAVAGE (NTOMKAVAGE@MBTA.COM) TO INFORM, BUS OPERATIONS & NECESSARY BUS GARAGES OF THE UPCOMING WORK.
 4. REFER TO SHEET G-003 FOR BILL OF MATERIALS, ITEM NUMBER PART DESCRIPTIONS.



MATCH LINE W/ SH 06

MATCH LINE W/ SH 08



THE DDS COMPANIES
 153 CORDAVILLE RD, SUITE 210
 SOUTHBOROUGH, MA 01772
 PHONE (781) 385-4644

BOSTON GAS COMPANY
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nationalgrid
 170 DATA DRIVE
 WALTHAM, MA 02451

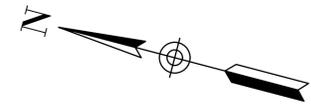
IFC



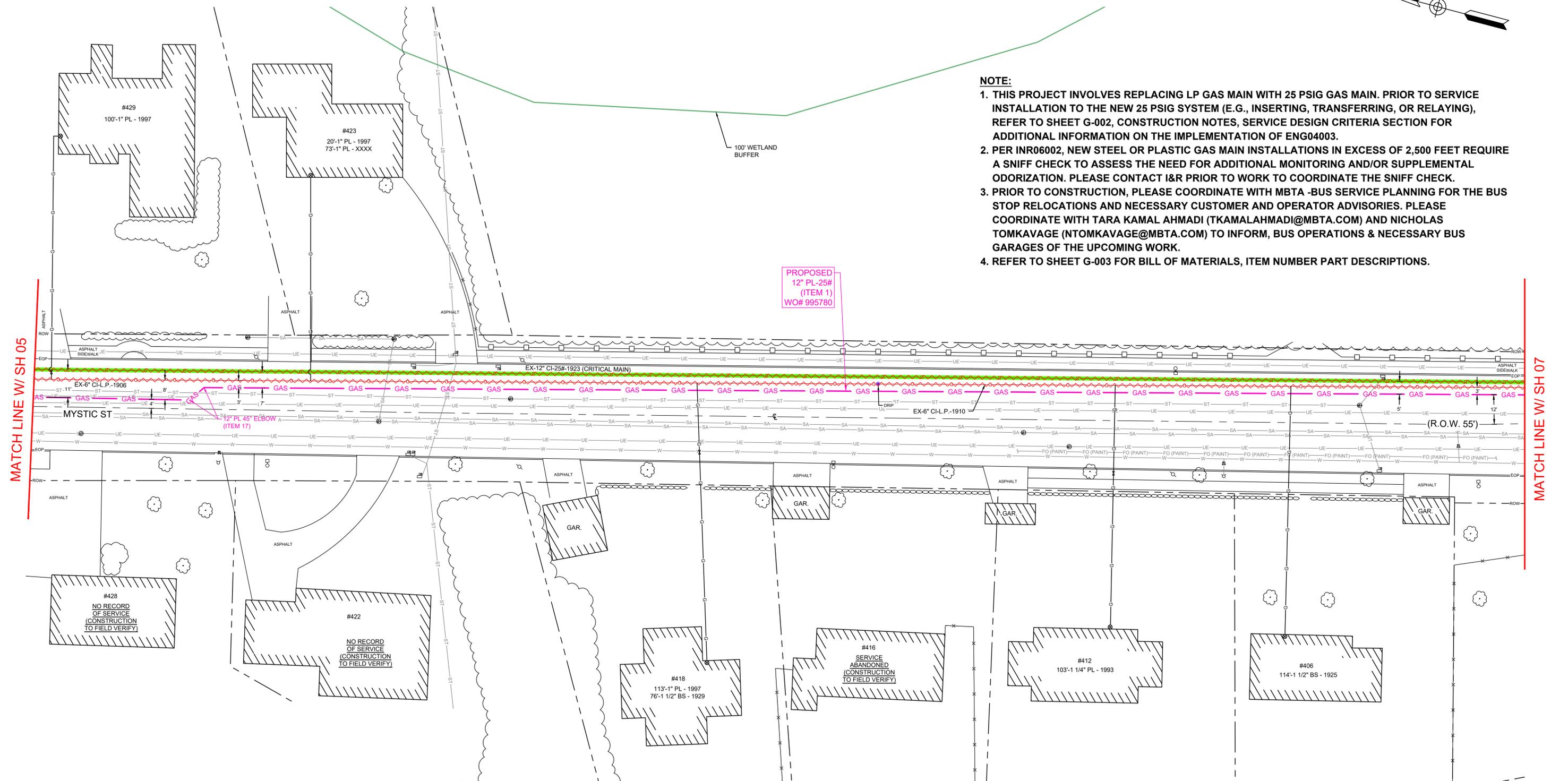
NO.	DESCRIPTION	DATE	DR. BY	CK. BY	APP. BY
2	UPDATES TO OVERALL LAYOUT SHEET	03/22/2024	WMK	SDS	MEP
1	REVISION REQUEST - NOTES, BOM, & PLANS	03/12/2024	WMK	SJK	MEP
0	ISSUED FOR CONSTRUCTION	01/18/2024	KEA	WMK	MEP

355-455 MYSTIC ST & OLD MYSTIC ST GAS MAIN REPLACEMENT MYSTIC ST & OLD MYSTIC ST ARLINGTON, MA					
LAYOUT SHEET					
DWG SIZE	DESIGNER	ENGINEER	DATE	ASSET I.D.	W.O. NO.
22"x34"	DDS COMPANIES	XXXXXXX	03/22/2024	XXXXXXX	995780

PAGE 05 OF 13	
DRAWING NO.	SHEET NO.
C-002	05

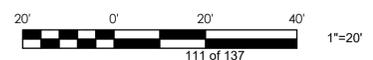


- NOTE:**
1. THIS PROJECT INVOLVES REPLACING LP GAS MAIN WITH 25 PSIG GAS MAIN. PRIOR TO SERVICE INSTALLATION TO THE NEW 25 PSIG SYSTEM (E.G., INSERTING, TRANSFERRING, OR RELAYING), REFER TO SHEET G-002, CONSTRUCTION NOTES, SERVICE DESIGN CRITERIA SECTION FOR ADDITIONAL INFORMATION ON THE IMPLEMENTATION OF ENG04003.
 2. PER INR06002, NEW STEEL OR PLASTIC GAS MAIN INSTALLATIONS IN EXCESS OF 2,500 FEET REQUIRE A SNIFF CHECK TO ASSESS THE NEED FOR ADDITIONAL MONITORING AND/OR SUPPLEMENTAL ODORIZER. PLEASE CONTACT I&R PRIOR TO WORK TO COORDINATE THE SNIFF CHECK.
 3. PRIOR TO CONSTRUCTION, PLEASE COORDINATE WITH MBTA -BUS SERVICE PLANNING FOR THE BUS STOP RELOCATIONS AND NECESSARY CUSTOMER AND OPERATOR ADVISORIES. PLEASE COORDINATE WITH TARA KAMAL AHMADI (TKAMALAHMADI@MBTA.COM) AND NICHOLAS TOMKAVAGE (NTOMKAVAGE@MBTA.COM) TO INFORM, BUS OPERATIONS & NECESSARY BUS GARAGES OF THE UPCOMING WORK.
 4. REFER TO SHEET G-003 FOR BILL OF MATERIALS, ITEM NUMBER PART DESCRIPTIONS.



MATCH LINE W/ SH 05

MATCH LINE W/ SH 07



THE DDS COMPANIES
 153 CORDAVILLE RD, SUITE 210
 SOUTHBOROUGH, MA 01772
 PHONE (781) 385-4644

BOSTON GAS COMPANY
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 170 DATA DRIVE
 WALTHAM, MA 02451

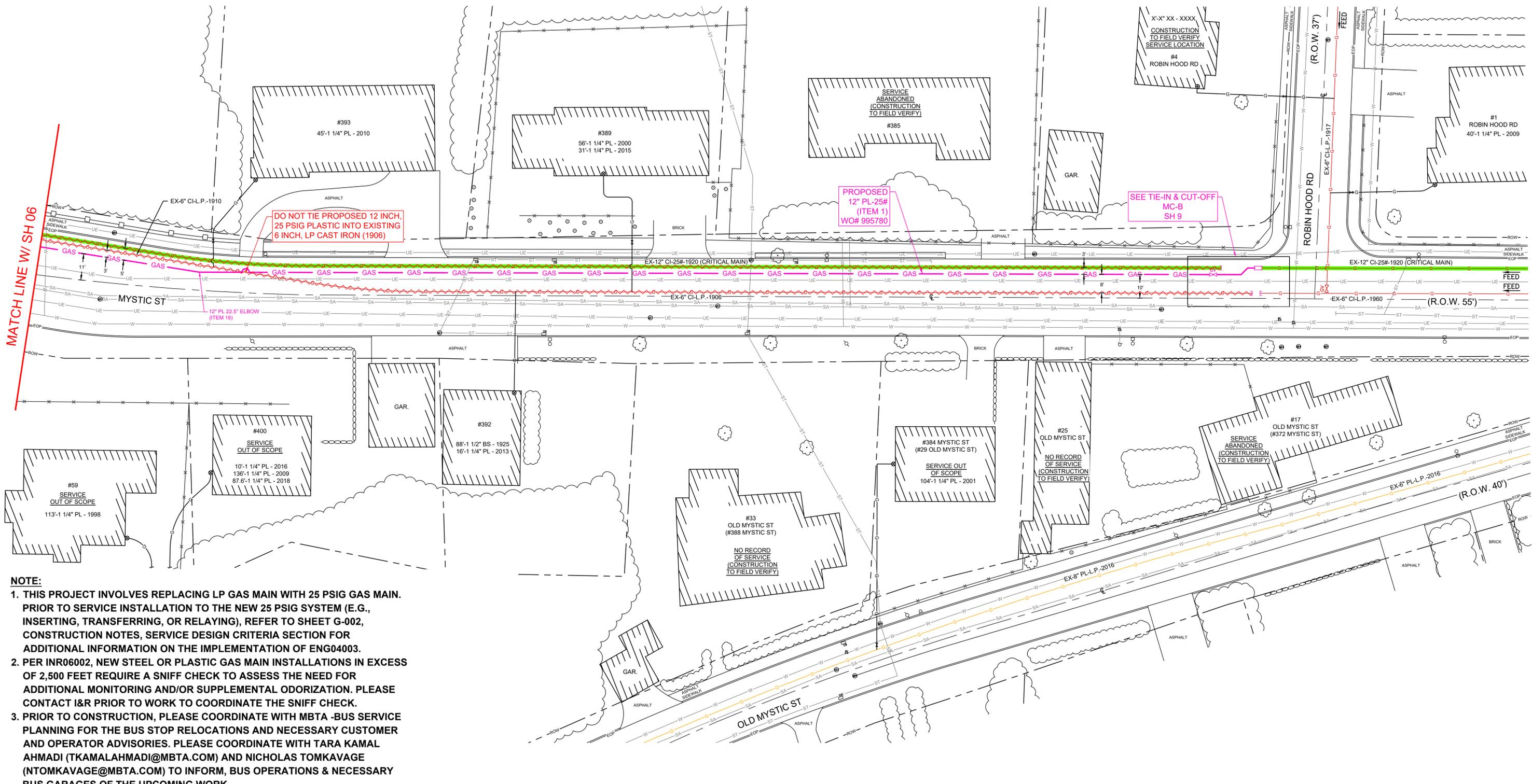
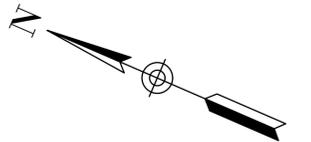
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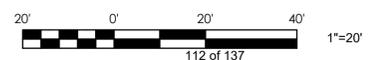
NO.	DESCRIPTION	DATE	DR. BY	CK. BY	APP. BY
2	UPDATES TO OVERALL LAYOUT SHEET	03/22/2024	WMK	SDS	MEP
1	REVISION REQUEST - NOTES, BOM, & PLANS	03/12/2024	WMK	SJK	MEP
0	ISSUED FOR CONSTRUCTION	01/18/2024	KEA	WMK	MEP

355-455 MYSTIC ST & OLD MYSTIC ST GAS MAIN REPLACEMENT MYSTIC ST & OLD MYSTIC ST ARLINGTON, MA					
LAYOUT SHEET					
DWG SIZE	DESIGNER	ENGINEER	DATE	ASSET I.D.	W.O. NO.:
22"x34"	DDS COMPANIES	XXXXXXX	03/22/2024	XXXXXXX	995780

PAGE 06 OF 13	
DRAWING NO.	SHEET NO.
C-003	06



- NOTE:**
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 4. REFER TO SHEET G-003 FOR BILL OF MATERIALS, ITEM NUMBER PART DESCRIPTIONS.



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 PHONE (781) 385-4644

BOSTON GAS COMPANY
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 170 DATA DRIVE
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IFC



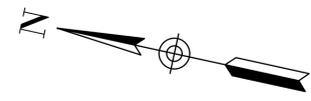
NO.	DESCRIPTION	DATE	DR.	CK.	APP.
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355-455 MYSTIC ST & OLD MYSTIC ST
 GAS MAIN REPLACEMENT
 MYSTIC ST & OLD MYSTIC ST
 ARLINGTON, MA

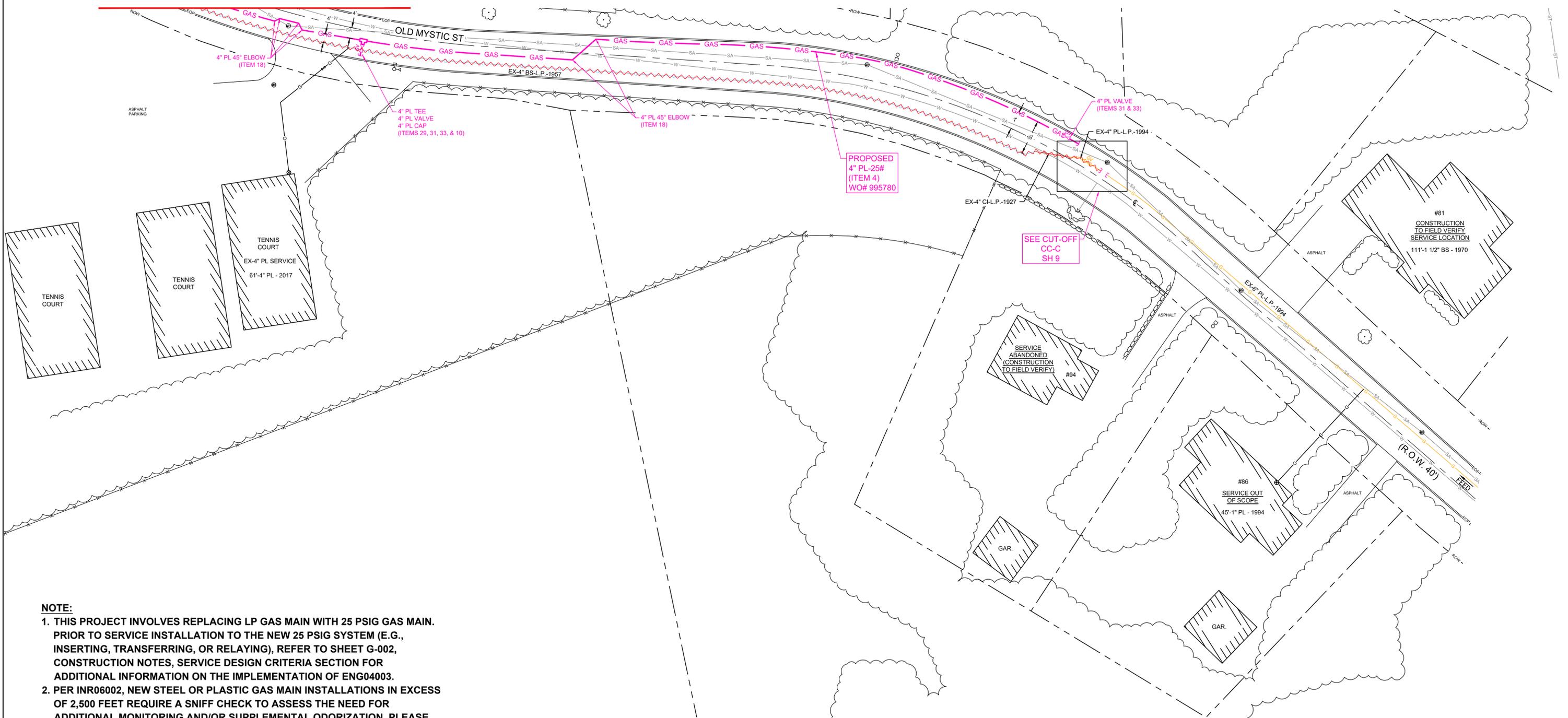
LAYOUT SHEET

DWG SIZE	DESIGNER	ENGINEER	DATE	ASSET I.D.	W.O. NO.:
22"X34"	DDS COMPANIES	XXXXXXXX	03/22/2024	XXXXXXXX	995780

PAGE 07 OF 13	
DRAWING NO.	SHEET NO.
C-004	07



MATCH LINE W/ SH 05



NOTE:

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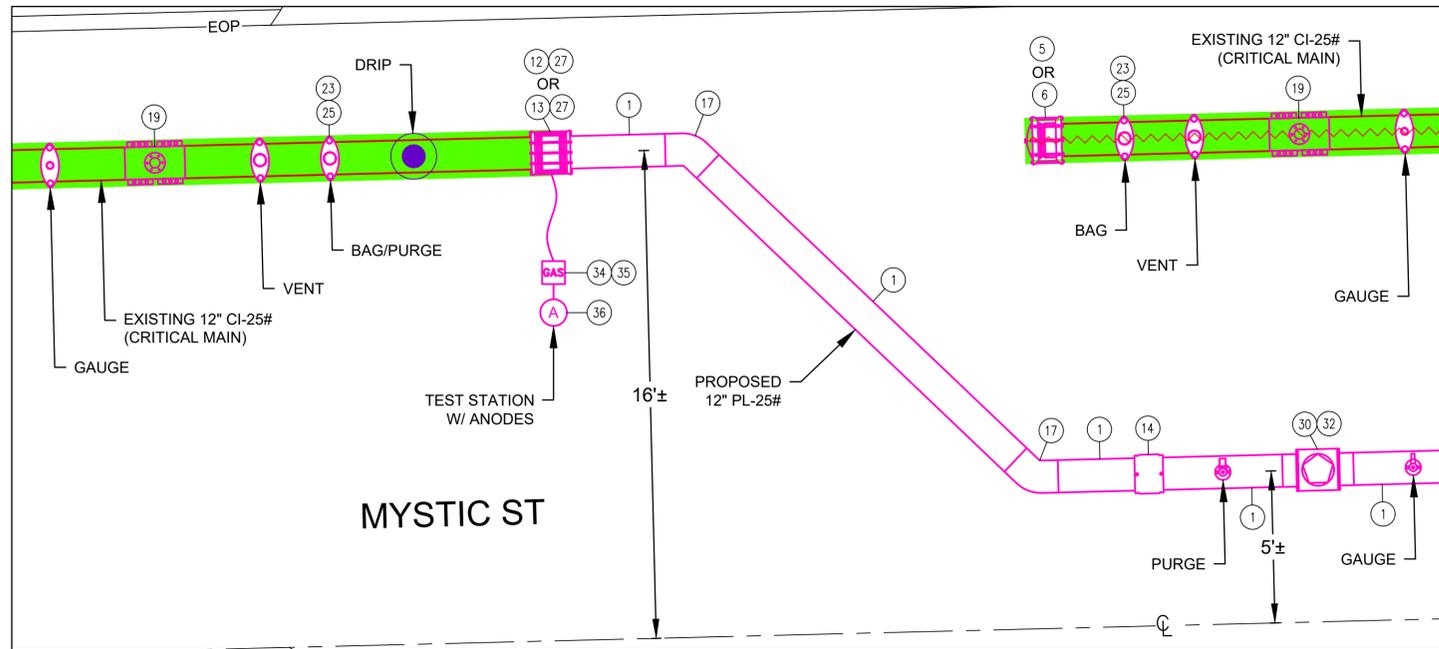
NO.	DESCRIPTION	DATE	DR. BY	CK. BY	APP. BY
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355-455 MYSTIC ST & OLD MYSTIC ST
 GAS MAIN REPLACEMENT
 MYSTIC ST & OLD MYSTIC ST
 ARLINGTON, MA

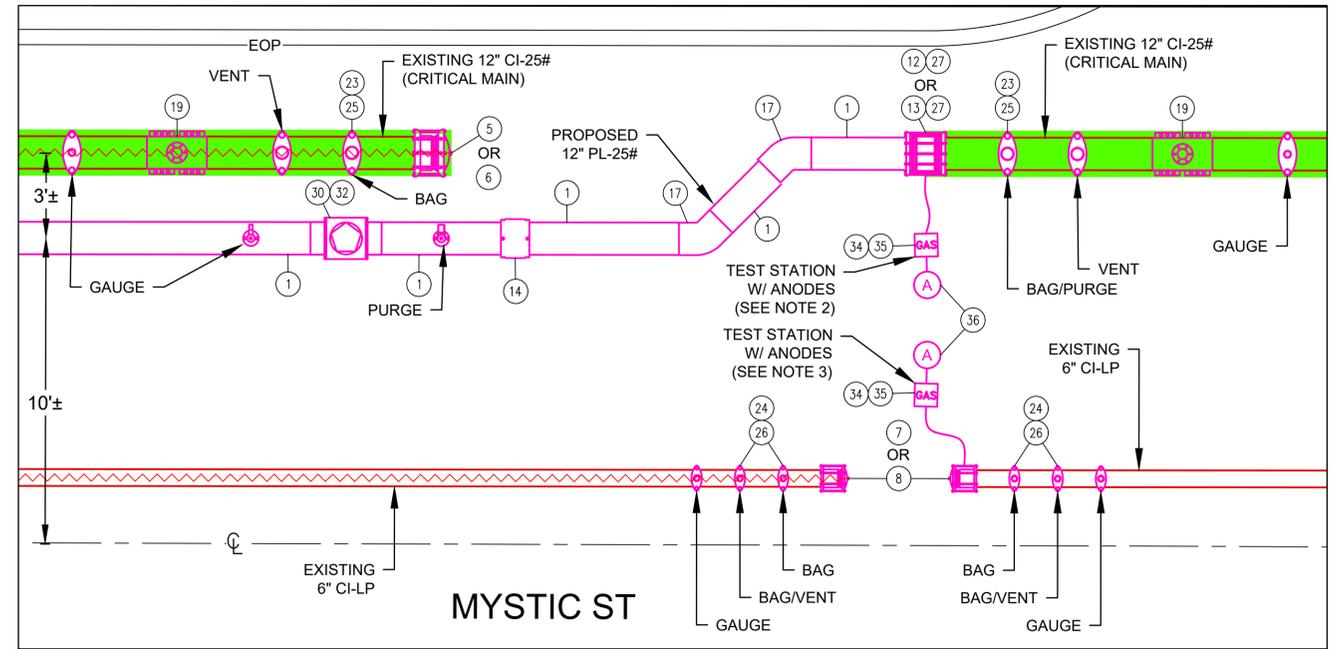
LAYOUT SHEET

DWG SIZE	DESIGNER	ENGINEER	DATE	ASSET I.D.	W.O. NO.:
22"X34"	DDS COMPANIES	XXXXXXXX	03/22/2024	XXXXXXXX	995780

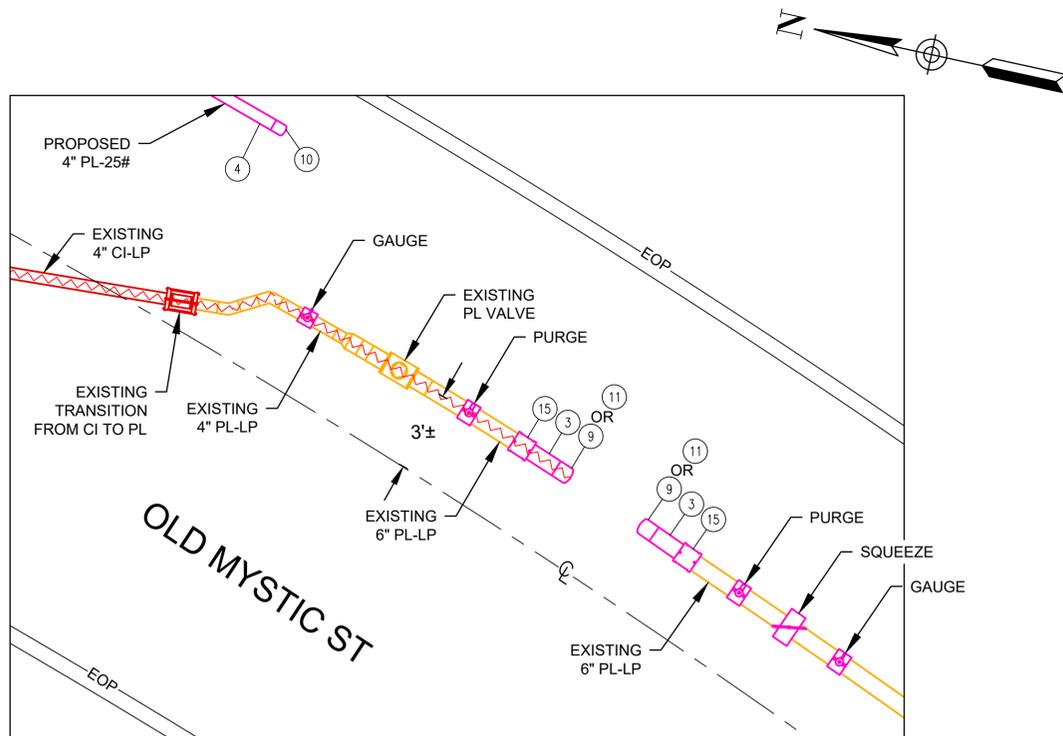
PAGE 08 OF 13	
DRAWING NO.	SHEET NO.
C-005	08



MC-A: TIE-IN
(MYSTIC ST)
SCALE - 1:3
SEE NOTE 2



MC-B: TIE-IN & CUT-OFF
(MYSTIC ST)
SCALE - 1:3
SEE NOTES 2 & 3



CC-C: CUT-OFF
(OLD MYSTIC ST)
SCALE - 1:3
SEE NOTES 1 & 4

NOTE:

1. ELECTROFUSION CAP (ITEM 11) CAN BE USED AS ALTERNATE TO BUTT FUSE CAP (ITEM 9) WITH ELECTROFUSION COUPLING (ITEM 15).
2. INSTALL A 1-WIRE TEST STATION TO THE PROPOSED INSULATED COUPLING (PIPE END SPACER AND INSULATOR SLEEVE FACING THE CAST IRON) BY USING THE CLIP ON THE COUPLING. INCLUDE 1-17 LB ANODE SPACED AT LEAST 1 FT BELOW THE MAIN. INSTALL THE 9X9 TEST STATION IN AN ACCESSIBLE LOCATION.
3. INSTALL A 1-WIRE TEST STATION TO THE PROPOSED ACTIVE INSULATED MECHANICAL END CAP. INCLUDE 1-17 LB ANODE SPACED AT LEAST 1 FT BELOW THE MAIN. INSTALL THE 9X9 TEST STATION IN AN ACCESSIBLE LOCATION.
4. STOP OFF METHODS CONTAINED IN CNST03002: STOP OFF OPERATIONS ON LOW PRESSURE MAINS, MAY BE USED IN PLACE OF SQUEEZE OFFS.

NOTE:

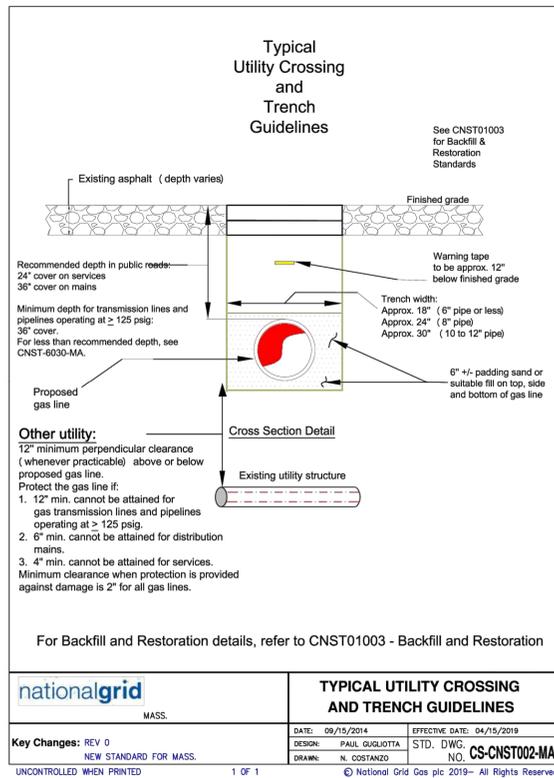
SOME DETAILS MAY INCLUDE ADDITIONAL PURGES AND GAUGES THAT ARE NOT REQUIRED. SEE SOP SKETCH FOR NECESSARY FITTINGS.



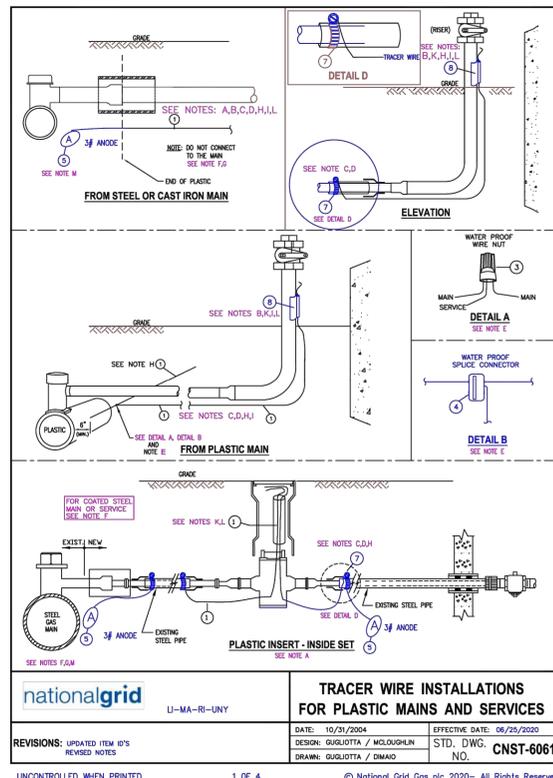
NO.	DESCRIPTION	DATE	DR BY	CK BY	APP BY
2	UPDATES TO OVERALL LAYOUT SHEET	03/22/2024	WMK	SDS	MEP
1	REVISION REQUEST - NOTES, BOM, & PLANS	03/12/2024	WMK	SJK	MEP
0	ISSUED FOR CONSTRUCTION	01/18/2024	KEA	WMK	MEP

355-455 MYSTIC ST & OLD MYSTIC ST GAS MAIN REPLACEMENT MYSTIC ST & OLD MYSTIC ST ARLINGTON, MA					
TIE-IN & ABANDONMENT DETAILS					
DWG SIZE	DESIGNER	ENGINEER	DATE	ASSET I.D.	W.O. NO.:
22"X34"	DDS COMPANIES	XXXXXXXX	03/22/2024	XXXXXXXX	995780

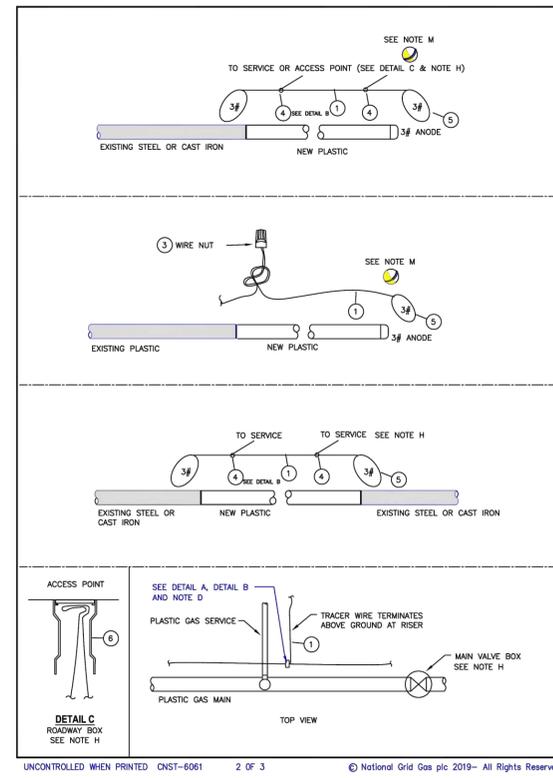
PAGE 09 OF 13	
DRAWING NO.	SHEET NO.
C-101	09



nationalgrid		TYPICAL UTILITY CROSSING AND TRENCH GUIDELINES	
MASS.			
DATE: 09/15/2014	EFFECTIVE DATE: 04/15/2019	DESIGN: PAUL GUGLIOTTA	STD. DWG. NO. CS-CNST002-MA
DRAMA: N. COSTANZO			
KEY CHANGES: REV 0			
NEW STANDARD FOR MASS.			
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nationalgrid		TRACER WIRE INSTALLATIONS FOR PLASTIC MAINS AND SERVICES	
LI-MA-RI-UNY			
DATE: 10/21/2004	EFFECTIVE DATE: 06/25/2020	DESIGN: GUGLIOTTA / MCGLOUHLIN	STD. DWG. NO. CNST-6061
DRAWN: GUGLIOTTA / DIMAIO			
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nationalgrid		TRACER WIRE INSTALLATIONS FOR STEEL MAINS AND SERVICES	
LI-MA-RI-UNY			
DATE: 10/21/2004	EFFECTIVE DATE: 06/25/2020	DESIGN: GUGLIOTTA / MCGLOUHLIN	STD. DWG. NO. CNST-6061
DRAWN: GUGLIOTTA / DIMAIO			
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NO.	ITEM	BILL OF MATERIAL	SAP ITEM ID
8	TRACER WIRE SNAP, 2" (represents steel size)		9308134
8	TRACER WIRE SNAP, 1 1/2" (represents steel size)		9308156
8	TRACER WIRE SNAP, 1" (represents steel size)		9308150
8	TRACER WIRE SNAP, 3/4" (represents steel size)		9308568
7	CLAMP, STAINLESS		9331708
6	VALVE BOX, ROADWAY		9329900
5	ANODE, 3 LB MAGNESIUM		9315645
4	WIRE SPLICE CONNECTOR, WATERPROOF		9308008
3	WIRE NUT, PLASTIC, WATERPROOF		9331644
2	WIRE, DIRECTIONAL DRILL, STAINLESS, STRANDED, 10 AWG		9314187
1	TRACER WIRE, DIRECT BURY, COPPER, 12 AWG		9315005

A. Inside sets: Terminate tracer wire in the curb valve box. Allow enough wire to extend 18" to 24" above grade.

B. Outside Sets: Tracer wire should be extended approximately 18" above grade at riser. Connect tracer wire to the riser using a "tracer snap", item #8. If the appropriate tracer snap is not available, wrap or tie the tracer wire to the riser. Do not permanently attach tracer wire to the riser. Tracer wire should not exceed 6" above the point where it is secured to the riser.

C. Partially tubed services: When the abandoned portion of an existing steel service pipe is used as a sleeve for the new plastic, all cut out sections of the steel pipe to be inserted with plastic, shall be connected using a section of tracer wire to maintain continuity. If the existing pipe is coated steel, see [Installation of Test Stations for Cathodic Protection \[030026-CS\]](#) and [Installation of Test Stations for Cathodic Protection \[COR04003\]](#) or contact corrosion department for more guidance.

D. Thermite welding of tracer wire to abandoned steel service is only acceptable prior to insertion of the plastic tubing. See [Installation of Test Stations for Cathodic Protection \[030026-CS\]](#).

E. Plastic Mains: The service tracer wire shall be connected to the plastic main tracer wire using item #3 detail A or item #4 (detail B - preferred) in accordance with [Installing Wire Connections \[COR04004\]](#).

F. Coated Steel Mains: Do not connect the tracer wire to the steel main. See [Installation of Test Stations for Cathodic Protection \[030026-CS\]](#) and [Installation of Test Stations for Cathodic Protection \[COR04003\]](#) or contact corrosion department for more guidance.

G. Cast Iron or Bare Steel Mains: Do not connect the tracer wire to the main. It is required in LI and MA, and suggested in all other areas to terminate the tracing wire with a #3 anode.

Tracer Wire Installation Notes

H. Install tracer wire in close proximity to the plastic pipe. Approximately 4" to 6" away from the pipe. LI & MA - Above or alongside, UNY - alongside, RI-Under or alongside. Exception: For trenchless pipe installations, the minimum clearance is waived.

I. Maintain separation of approximately 4" from service riser. Do not permanently connect the tracer wire to the riser.

J. For horizontal directional drill installations, use stainless wire, item #2.

K. Tracer wire installed in boxes should allow enough wire to extend 18" to 24" above grade.

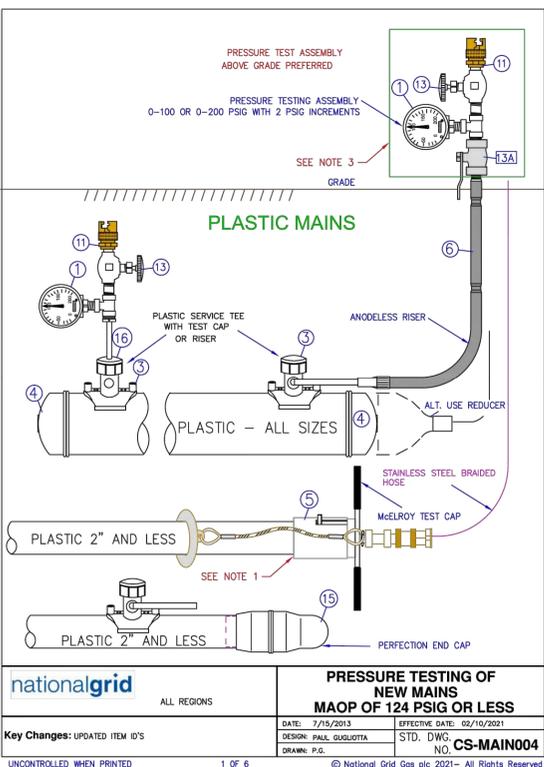
L. Verification: upon completion, the installer shall verify the location of the main or service using the tracer wire and locating device and perform a mark out using the conductive method.

M. LI and MA: Required to terminate the tracing wire with a #3 anode. This is to ground the tracer wire and increase signal strength when locating. This practice is recommended in all areas where signal strength is an issue.

Regional Notes

NYC ONLY: refer to [Installation of Marker Tapes and EMS Pipeline Locators for Mains and Services \[CNST6060-NYC\]](#) for installation of electronic marker ball in place of tracer wire.

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nationalgrid		PRESSURE TESTING OF NEW MAINS MAOP OF 124 PSIG OR LESS	
ALL REGIONS			
DATE: 7/15/2013	EFFECTIVE DATE: 02/10/2021	DESIGN: PAUL GUGLIOTTA	STD. DWG. NO. CS-MAIN004
DRAMA: P.G.			
KEY CHANGES: UPDATED ITEM ID'S			
UNCONTROLLED WHEN PRINTED	1 OF 6	© National Grid Gas plc 2021 - All Rights Reserved	

NOTES:

- INSTALL PER MCELROY MANUFACTURER'S INSTRUCTIONS.
- WHEN USING MECHANICAL COUPLINGS (AS SHOWN IN DETAIL A), NON-RESTRAINING COUPLING SHALL BE STRAPPED AND THE ENDS SHALL BE BLOCKED PER APPROVED STANDARD DRAWINGS. RESTRAINING COUPLINGS NEED TO BE EITHER STRAPPED OR BLOCKED. WHEN USING RESTRAINING COUPLINGS, STRAPPING NUTS SHOULD BE HAND TIGHT.
- ON EXISTING STEEL SYSTEMS, REFER TO THE TABLE BELOW FOR THE MINIMUM SAFE DISTANCE FROM THE EXCAVATION WALL. IF A BURIED UNSTRAPPED COUPLING EXISTS AT A DISTANCE LESS THAN THE MINIMUM SAFE EMBEDEDMENT DISTANCE FROM THE WALL, THEN BLOCKING IS REQUIRED FOR THE PRESSURE TEST. IF AN ALL WELDED SYSTEM CAN NOT BE CONFIRMED, THE WELDED OR FLANGED ENDS SHALL BE BLOCKED.

PIPE SIZE (INCHES)	MINIMUM SAFE DISTANCE FROM THE EXCAVATION WALL (FEET)
2	5
3	8
4	12
6	24
8	41
12	70

REFER TO CONSTRUCTION STANDARD FITS-6025 AND FITS-6015 FOR LIST OF COUPLINGS.

- IT IS RECOMMENDED THAT THE GAUGE ASSEMBLY BE ABOVE GRADE TO PREVENT PERSONNEL FROM ENTERING THE TRENCH WHILE THE PRESSURE TEST IS UNDERWAY.
- ONE PRESSURE TEST GAUGE AT EACH PIPE END IS RECOMMENDED TO VERIFY THE PRESSURE. ALL GAUGES SHALL BE 0-100 OR 0-200 PSIG RANGE (2 PSIG INCREMENTS RECD IN NY STATE ONLY).
- REFER TO CNST0403 'PRESSURE TESTING OF MAINS OPERATING BELOW 125 PSIG' FOR TESTING AND DESIGN REQUIREMENTS.

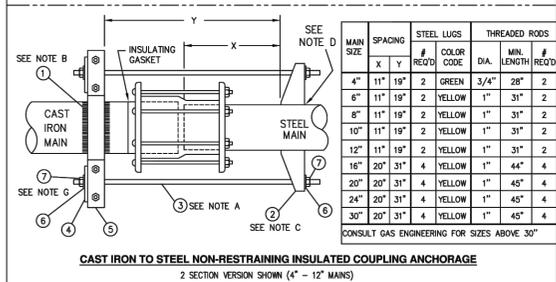
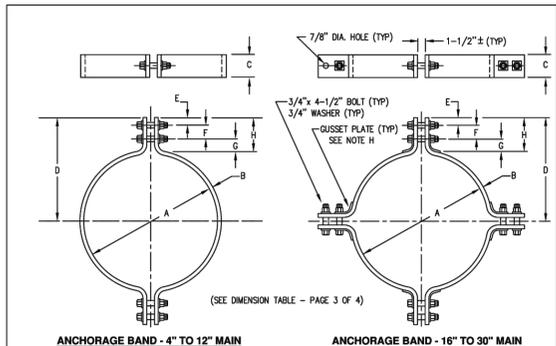
ITEM	DESCRIPTION	SAP ITEM ID	LI	MA	NYC	RI	AND	UNY
1	PRESSURE GAUGE 0-100 OR 0-200 PSIG - 2 PSIG INCREMENTS	9354885						
	0-200 PSIG STAINLESS STEEL 1/2" NPT 3-1/2" DIAL	9358390						
	0-100 PSIG STAINLESS STEEL 1/2" NPT 2-1/2" DIAL	9332240						
2	SIGN - WARNING PRESSURE TEST (AS REQUIRED IN FIELD)	9342517						
3	TEE SERVICE - ELECTROFUSION YELLOW MD 1/2" CTS BUTT FUSE OUTLET	9342517						
	2" MAIN X 1/2" BUTT FUSE OUTLET LI,MA,NY,NC	9342518						
	4" MAIN X 1/2" BUTT FUSE OUTLET LI,MA,NY,NC	9342519						
	6" MAIN X 1/2" BUTT FUSE OUTLET LI,MA,NY,NC	9342516						
	8" MAIN X 1/2" BUTT FUSE OUTLET LI,MA,NY,NC	9342371						
	12" MAIN X 1/2" BUTT FUSE OUTLET LI,MA,NY,NC	9342372						
	TEE SERVICE - ELECTROFUSION YELLOW MD 1" CTS BUTT FUSE OUTLET	9342332						
	1-1/4" MAIN X 1" OUTLET LI	9342331						
	2" MAIN X 1" OUTLET LI	9342321						
	4" MAIN X 1" OUTLET LI	9342328						
	6" MAIN X 1" OUTLET LI	9342372						
	8" MAIN X 1" OUTLET LI	9322653						
	12" MAIN X 1" OUTLET LI	9322628						
	TEE SERVICE - ELECTROFUSION BLACK HD 1" IPS BUTT FUSE OUTLET	9322620						
	2" MAIN X 1" IPS OUTLET MASS	9322628						
	4" MAIN X 1" IPS OUTLET MASS	9322620						
	6" MAIN X 1" IPS OUTLET MASS	9322628						
	8" MAIN X 1" IPS OUTLET MASS	9322497						
	12" MAIN X 1" IPS OUTLET LI, NYC, MA	9351831						
	TEE SERVICE - SADDLE FUSION HIGH DENSITY BLACK 1/2" CTS BUTT FUSE	9342405						
	2" MAIN X 1/2" OUTLET LI	9342406						
	4" MAIN X 1/2" OUTLET LI	9342407						
	6" MAIN X 1/2" OUTLET LI	9342408						
	8" MAIN X 1/2" OUTLET LI	9342409						
	12" MAIN X 1/2" OUTLET LI	9342429						
	TEE SERVICE - SADDLE FUSION HIGH DENSITY BLACK 1" CTS BUTT FUSE	9342430						
	2" MAIN X 1" OUTLET LI	9342431						
	4" MAIN X 1" OUTLET LI	9342432						
	6" MAIN X 1" OUTLET LI	9342433						
	8" MAIN X 1" OUTLET LI	9342434						
	12" MAIN X 1" OUTLET LI	934629						
	TEE SERVICE - MECHANICAL X PERFECTION OUTLET	9309584						
	2" MAIN X 1/2" OUTLET	9308583						
	4" MAIN X 1/2" OUTLET	9308471						
	6" MAIN X 1/2" OUTLET	9315492						
	8" MAIN X 1/2" OUTLET	9308123						
	12" MAIN X 1/2" OUTLET	9315490						
	2" MAIN X 1" OUTLET	9308473						
	4" MAIN X 1" OUTLET	9308178						
	6" MAIN X 1" OUTLET	9308178						
	8" MAIN X 1" OUTLET	9308178						
	12" MAIN X 1" OUTLET	9308178						

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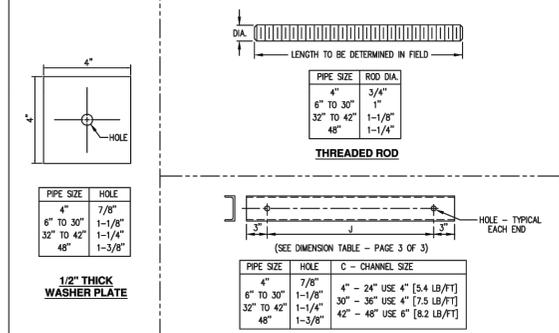
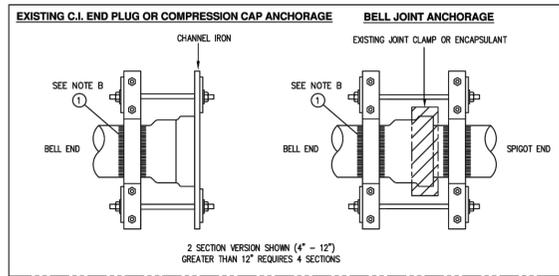
ITEM	DESCRIPTION	ORACLE ITEM ID	LI	MA	NYC	RI	AND	UNY
4	CAP END PLASTIC MEDIUM DENSITY YELLOW BUTT FUSE	9339540						
	2" SDR 11	9339541						
	4" SDR 11	9339534						
	6" SDR 11	9339533						
	8" SDR 13.5	9339559						
	12" SDR 11.5	9339560						
	CAP END PLASTIC HIGH DENSITY BLACK BUTT FUSION	9339538						
	2" SDR 9	9339535						
	4" SDR 9	9339536						
	6" SDR 9	9339537						
	2" SDR 11 MASS RI & UNY	9312686						
	3" SDR 11 MASS RI & UNY	9310276						
	4" SDR 11 MASS RI & UNY	9312685						
	6" SDR 11 MASS RI & UNY	9312684						
	8" SDR 11 MASS RI & UNY	9310272						
	12" SDR 11 RI UNY	9308729						
	6" SDR 13.5 RI	9312683						
	12" SDR 13.5 RI	9314605						
5	MCELROY TEST CAPS (165 PSIG MAX)	9344366						
	1-1/4" MODEL TP	9344367						
	2" MODEL TP-310	9344368						
6	1" CTS MEDIUM DENSITY X 1/2" NPT OUTLET	9340674						
	1" HIGH DENSITY X 1/2" NPT OUTLET	9340675						
	1" CTS SERVASET X 1/2" OUTLET	9322627						
	1" CTS HIGH DENSITY .090" WALL X 1" IPS STEEL OUTLET	9318465						
	1/2" CTS .090" WALL PERFECTION END X 3/4" NPT STEEL	9310295						
	1-1/4" CTS .090" WALL PERFECTION END X 1-1/4" NPT STEEL	9308180						
	OR TEST CAPS WITH STEEL OR PLASTIC PIPE TO TEST TEE	0031110						
	TEST CAP FOR CENTRAL PLASTIC ELECTROFUSION TAPPING TEE	9308180						
7	FLANGE 150# WELD END FLAT FACE	9314432						
	2"	9314431						
	4"	9314430						
	6"	9308658						
	8"	9308748						
	12"	9308660						
	16"	9322683						
	20"	9322682						
8	BLIND FLANGE CLASS 150# ASTM A-105	9341434						
	2" FLAT FACE WITH 1/2" CENTER NPT TAP	9341014						
	3" FLAT FACE WITH 3/4" CENTER NPT TAP	9341435						
	4" FLAT FACE WITH 1" CENTER NPT TAP	9340942						
	6" FLAT FACE WITH 1 1/2" CENTER NPT TAP	9309662						
	2" FLAT FACE	9307751						
	3" FLAT FACE	9306252						
	4" FLAT FACE	9305747						
	6" FLAT FACE	9307750						
	12" FLAT FACE	9308749						
9	GASKETS	9333167						
	2" FULL FACE 150#	9341158						
	3" FULL FACE 150#	9341159						
	4" FULL FACE 150#	9332599						
	6" FULL FACE 150#	9341168						
	12" RING TYPE 150#	9341165						

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ITEM	DESCRIPTION	ORACLE ITEM ID	LI	MA	NYC	RI	AND	UNY
10	END CAPS - STEEL WELD END STANDARD WALL - GRADE B	9312095						
	2"	9308						



nationalgrid ALL REGIONS	ANCHORAGE FOR CAST IRON BELL JOINTS, NON-RESTRAINING C.I. COUPLINGS AND CAPS	
	DATE: 11/15/2011 DESIGN: B. FOSTER DRAWN: B. FOSTER	EFFECTIVE DATE: 12/10/2021 STD. DWG. NO. MAIN-6190
REVISIONS: ADDED PAGES 5-8	UNCONTROLLED WHEN PRINTED	



nationalgrid	ANCHORAGE FOR CAST IRON BELL JOINTS, NON-RESTRAINING C.I. COUPLINGS AND CAPS	
	DATE: 11/15/2011 DESIGN: B. FOSTER DRAWN: B. FOSTER	EFFECTIVE DATE: 12/10/2021 STD. DWG. NO. MAIN-6190
REVISIONS: ADDED PAGES 5-8	UNCONTROLLED WHEN PRINTED	

ANCHORAGE BAND DIMENSIONS									
PIPE SIZE	A	B	C	D	E	F	G	H	J
4"	4-3/4	1/4	2	8-7/8	1-1/2	3	2	6-1/2	12
6"	7	1/4	2	10	1-1/2	3	2	6-1/2	14-1/2
8"	9-1/8	1/4	2	11-1/16	1-1/2	3	2	6-1/2	16-1/2
10"	11-1/8	1/4	2	12	1-1/2	3	2-1/2	6-5/8	N/A
12"	13-1/4	1/4	2	13-1/8	1-1/2	3	2-1/2	7	21-3/4
16"	17-5/8	3/8	3	16-13/16	1-1/2	3	3-1/2	8	28-3/8
20"	21-5/8	1/2	4	18-13/16	1-1/2	3	3-1/2	8	33-5/8
24"	25-3/4	1/2	4	21-3/8	1-1/2	3	4	8-1/2	37-3/4
30"	31-3/4	1/2	4	24-7/8	1-1/2	3	4-1/2	9	44-3/4
36"	38	1/2	4	28-1/2	1-1/2	3	5	9-1/2	52
42"	44-1/4	1/2	4	32	1-1/2	3-1/4	5-1/4	10	58-1/4
48"	50-1/2	1/2	4	34-1/2	2	3-1/4	7-1/4	11-3/4	66-1/2

7	NUT, HEX ALLOY STEEL (SEE NOTE G)	3/4"	9328587
		1"	9328589
6	WASHER, STEEL	3/4"	9328596
		1"	9328607
5	BAND, STEEL (EACH SET COMPLETE WITH BAND NUTS, BOLTS & WASHERS)	4" MAIN	9342533
		6" MAIN	9342535
		8" MAIN	9342536
		10" MAIN	9342538
		12" MAIN	9342512
		16" MAIN	9342513
		20" MAIN	9342514
		24" MAIN	9342531
		30" MAIN	9342537
4	WASHER PLATE (4" X 4" X 1/2" THICK)		9357672
3	ROD, THREADED, 12FT. LENGTH (SEE TABLE ON SHEET 1 FOR LENGTH REQUIRED) SEE NOTE A	3/4"	9328152
		1"	9328150
2	LUG, STEEL	GREEN (FOR 3/4")	9357604
		YELLOW (FOR 1")	9357605
1	SYNTHOGLASS TAPE, 4" WIDE X 20 FT. ROLL (SEE NOTES B & I)		9357628
No.	ITEM		NGRID ID

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NOTES:

- ROD THREADS TO BE NATIONAL COARSE, 8INQ FIT IN STANDARD NUT. RODS TO CONFORM TO ASTM A-306 GRADE 45.
- MINIMUM YIELD STRENGTH OF 22,000 PSI.
- MINIMUM TWO WRAPS OF SYNTHOGLASS TAPE (ITEM 1) SHALL BE INSTALLED TO INSULATE AND ANCHOR ANCHORAGE BANDS FROM CAST IRON MAIN.
- SEE STANDARD DRAWING MAIN-6230 FOR DETAILS OF LUG DESIGN.
- LUG WELDING TO CONFORM TO CURRENT WELDING SPECIFICATIONS.
- CATHODIC PROTECTION COATING TO CONFORM TO CURRENT SPECIFICATIONS.
- USE 1/2" BAND ON 10" MAIN. BAND SHALL BE MODIFIED AND CONTOURED TO MATCH 10" PIPE PRIOR TO INSTALLATION.
- ALL ANCHORS SHALL BE MADE UP TIGHT.
- GUSSET PLATE (1/2" THICK) TO BE WELDED ON SIZES 30" AND OVER.
- PROCEDURE FOR INSTALLING ANCHORAGE BAND IN SYNTHOGLASS:
 - MAIN MUST BE CLEANED FROM FOREIGN MATTER SIMILAR TO PREPARATION FOR COATING
 - ASSEMBLE BAND LOOSELY IN PLACE ON MAIN
 - CUT ENOUGH SYNTHOGLASS TO DOUBLE WRAP THE MAIN
 - DOUBLE WRAP SYNTHOGLASS AROUND MAIN - FULL WIDTH OF ANCHORAGE BAND
 - SLIDE BAND OVER SYNTHOGLASS AND MAKE UP BOLTS
 - AFTER TIGHTENING BOLTS, WET SYNTHOGLASS TO CURE FINAL ASSEMBLY IN PLACE
- CAST IRON JOINT HUBS** - (FOR 7.5 PSIG THRU 25 PSIG CAST IRON ONLY)
 - IF A CAST IRON MAIN BELL AND SPOCKET OR 90 DEGREE BEND WILL BE EXPOSED FOR ENCAPSULATION, EXPOSE ONLY THE FIRST HALF OF THE BEND AND ANCHOR, THEN PROCEED TO EXPOSE THE SECOND HALF AND ANCHOR.
 - IF CAST IRON WILL BE CAPPED IN AN OPEN EXCAVATION PERMANENTLY OR TEMPORARILY THEN PRIOR TO GASSING IN CAST IRON BELL AND SPOCKET HUBS SHALL BE STRONG BACKED TO PREVENT POSSIBLE HUB PULL OUT DUE TO THE INTERNAL GAS PRESSURE EXERTED ON THE CAP AT:
 - ALL EXPOSED CAST IRON BELL AND SPOCKET HUBS WITHIN LIMITS OF THE OPEN EXCAVATION
 - ALL BURRED BELL AND SPOCKET HUBS THAT ARE AT LESS THAN THE MINIMUM PIPE EMBEDMENT DISTANCE "H" AS MEASURED FROM THE FACE OF THE EXCAVATION TOWARDS THE HUB FOR THE GIVEN PIPE DIAMETER AS SHOWN IN TABLE A.

TABLE A (* These Sizes operate at HP in NE only)

PIPE DIA. (INCHES)	MINIMUM PIPE EMBEDMENT DISTANCE "H" (FT)
7.5 PSIG MAOP C.I.	9 PSIG MAOP C.I.
12 PSIG MAOP C.I.	15 PSIG MAOP C.I.
22 thru 25 PSIG MAOP C.I.	
4"	1
6"	n/a
8"	n/a
10"	n/a
12"	n/a
16"	n/a
20"	n/a
24"	n/a
30"	n/a
36"	n/a
42"	n/a
48"	n/a

K. COUPLINGS AND CAPS - NON-RESTRAINING ONLY
CAST IRON TO STEEL COUPLINGS (AND COMPRESSION CAPS IF CAST IRON WILL BE DEAD ENDED) MUST BE STRONGBACKED AS FOLLOWS:

LOW PRESSURE (< 7.5 PSIG)

- ANCHORAGE FOR CAST IRON TO STEEL COMPRESSION COUPLING CONNECTIONS SHOULD BE CONSIDERED WHEN EXCAVATION AND SIGNIFICANT UNDERMINING IN CLOSE PROXIMITY TO THESE CONNECTIONS ARE ANTICIPATED.
- ANCHOR COUPLINGS ON OFFSETS AND CAPS 16" AND LARGER IN DIAMETER.
- ANCHOR ANY ADDITIONAL COUPLINGS WHERE FIELD CONDITIONS MAY WARRANT.

HIGH PRESSURE (7.5 PSIG THRU 25 PSIG)

- ANCHOR ALL COUPLINGS AT DROP-IN OFFSETS.
- ANCHOR ALL COMPRESSION CAPS PRIOR TO GAS IN.
- ANCHOR COUPLINGS ON STRAIGHT LENGTHS WHERE FIELD CONDITIONS MAY WARRANT.

FOR DIAMETERS OF 24" AND LESS AND PRESSURES OF 22 PSIG AND LESS, SEE ALTERNATE ANCHORING METHODS ON PAGES 5 - 8 - CONTACT ENGINEERING FOR LARGER DIAMETERS.

Page 4 of 8 MAIN-6190 © National Grid Gas plc 2021 - All Rights Reserved Effective Date 12/31/2021

THE DDS COMPANIES
153 CORDAVILLE RD, SUITE 210
SOUTHBOROUGH, MA 01772
PHONE (781) 385-4644

BOSTON GAS COMPANY
d/b/a
nationalgrid
170 DATA DRIVE
WALTHAM, MA 02451

IFC



2	UPDATES TO OVERALL LAYOUT SHEET	03/22/2024	WMK	SDS	MEP
1	REVISION REQUEST - NOTES, BOM, & PLANS	03/12/2024	WMK	SJK	MEP
0	ISSUED FOR CONSTRUCTION	01/18/2024	KEA	WMK	MEP
NO.	DESCRIPTION	DATE	DR BY	CK BY	APP BY

355-455 MYSTIC ST & OLD MYSTIC ST GAS MAIN REPLACEMENT MYSTIC ST & OLD MYSTIC ST ARLINGTON, MA					
STANDARD DETAILS					
DWG SIZE	DESIGNER	ENGINEER	DATE:	ASSET I.D.	W.O. NO.:
22"X34"	DDS COMPANIES	XXXXXXXX	03/22/2024	XXXXXXXX	995780

PAGE 13 OF 13	
DRAWING NO.	SHEET NO.
C-204	13

ATTACHMENT D

Photographic Log

Client: Boston Gas Company

Job Number: N-5068-315

Site: Gas Main Replacement Project, Arlington MA

Photograph No.: 1	Date: 8/14/2024	Direction Taken: Northeast
Description: Mystic Street crossing over unnamed perennial stream north of the Project Site.		
		

Photograph No.: 2	Date: 8/14/2024	Direction Taken: Northwest
Description: Unnamed stream crossing located north of the Project Site.		
		

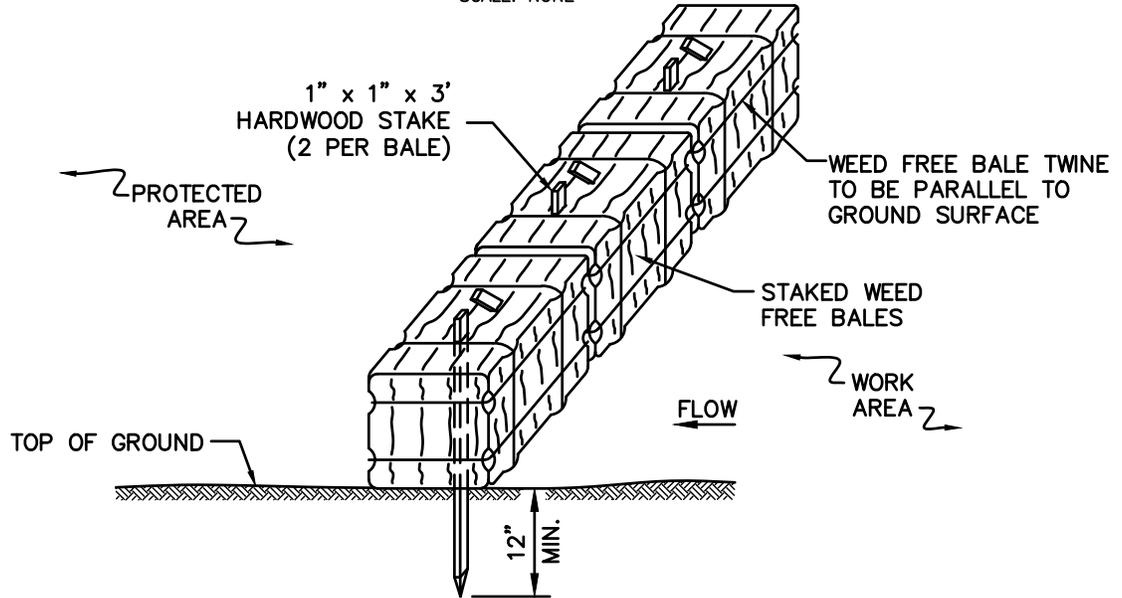
ATTACHMENT E

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



File: BALE_BARRIER.DWG

APPROVED BY: VICE PRESIDENT, ENVIRONMENTAL SERVICES
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VERSION PLEASE REFER TO THE NATIONAL GRID ENVIRONMENTAL INFONET SITE.

SEC-1
WEED FREE BALE BARRIER
122 of 137

SUBJECT

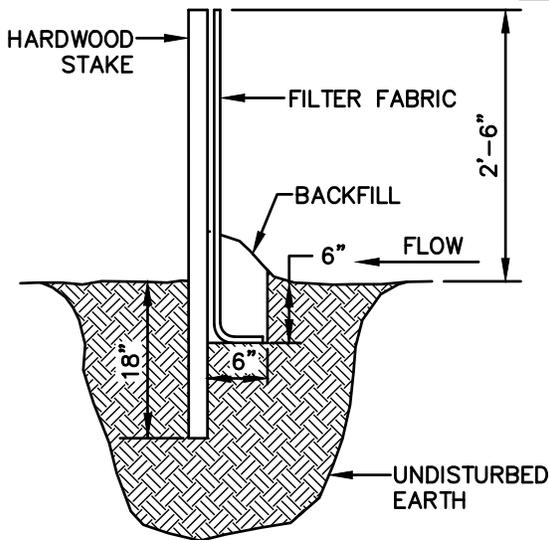
Access, Maintenance and Construction
Best Management Practices

Reference

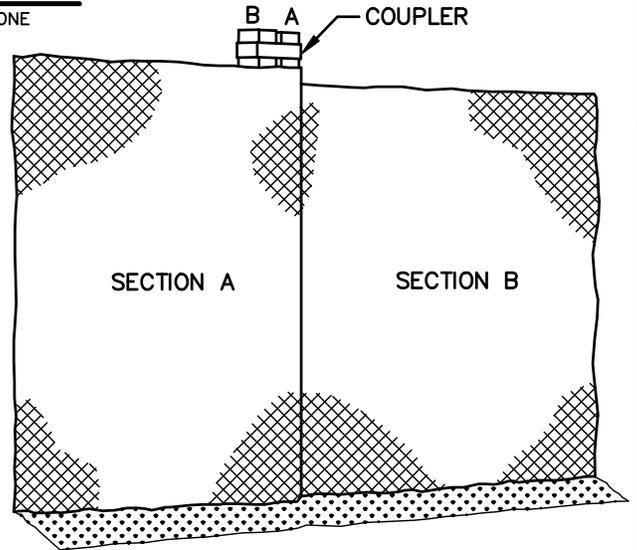
EP No. 3 - Natural Resource
Protection (Chapter 6)

BMP DETAIL

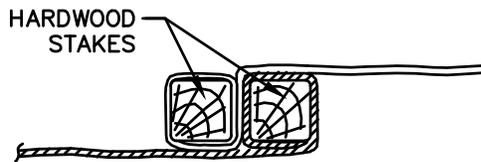
SCALE: NONE



PROFILE



SECTION



PLAN

BMP PICTURE



File: Sediment_Fence.dwg

APPROVED BY: VICE PRESIDENT, ENVIRONMENTAL SERVICES
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VERSION PLEASE REFER TO THE NATIONAL GRID ENVIRONMENTAL INFONET SITE.

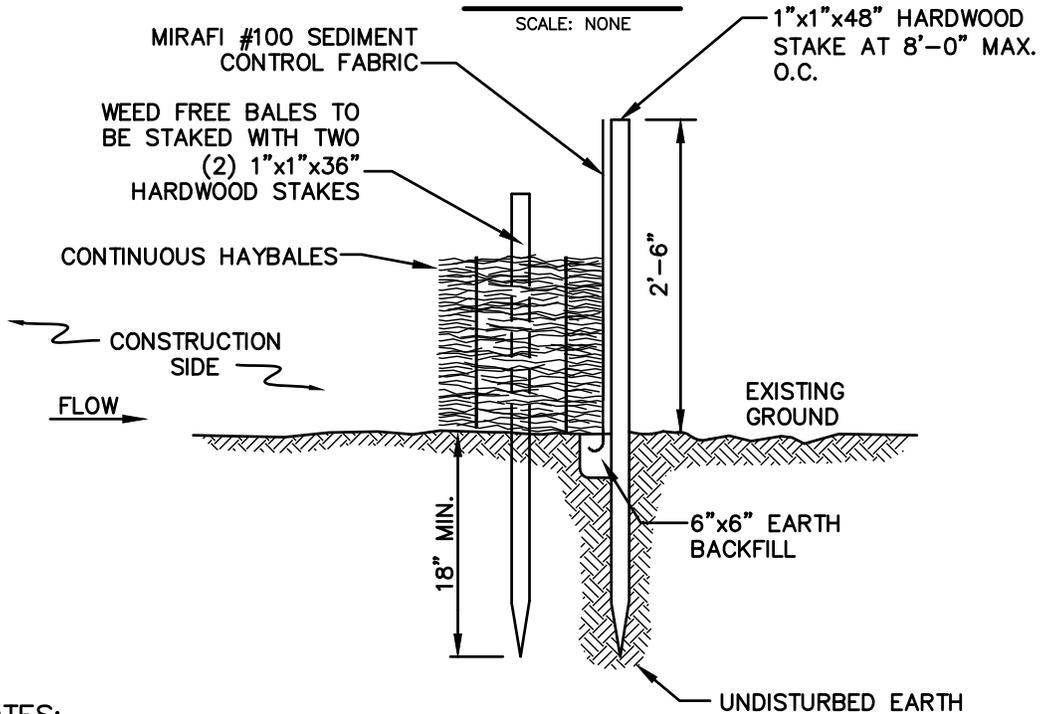
SEC-2
SEDIMENT CONTROL FENCE
123 of 137

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



File: Silt_Fence_&_Barrier.dwg

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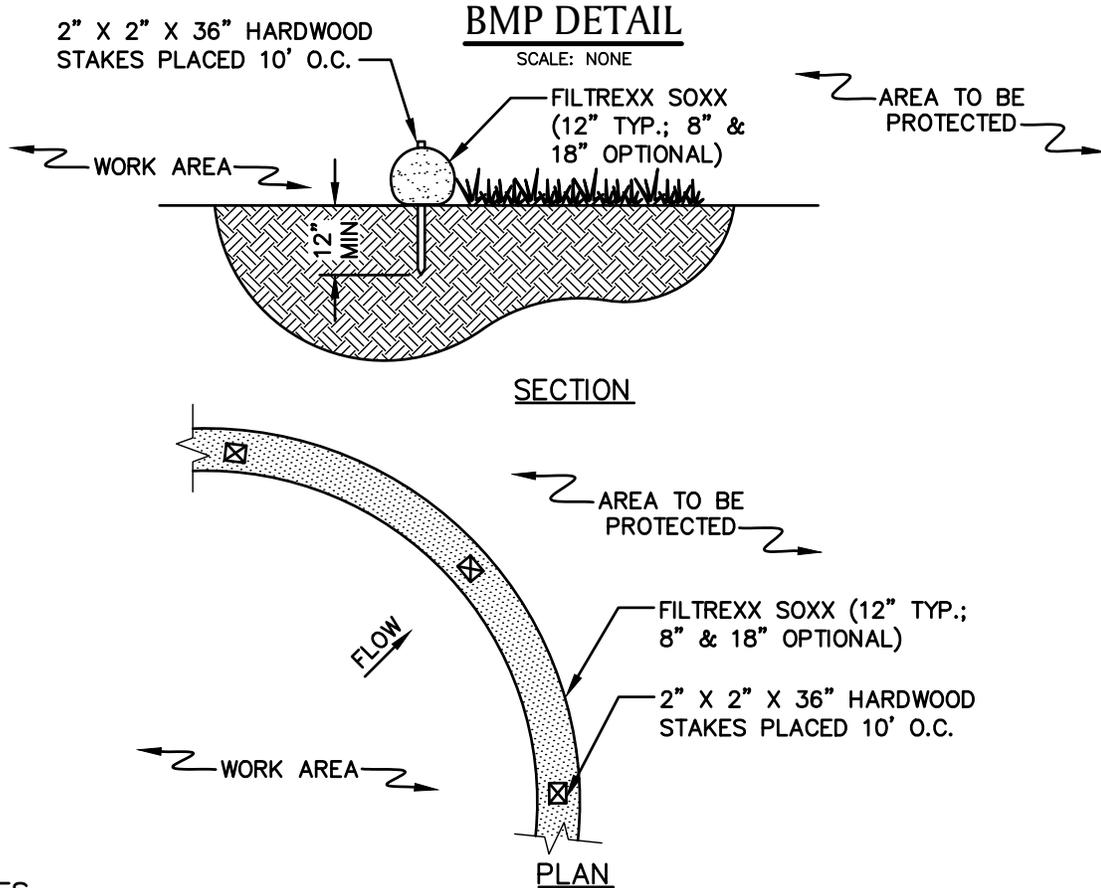
SEC-3
SILT FENCE /
WEED FREE BARRIER

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
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SUBJECT

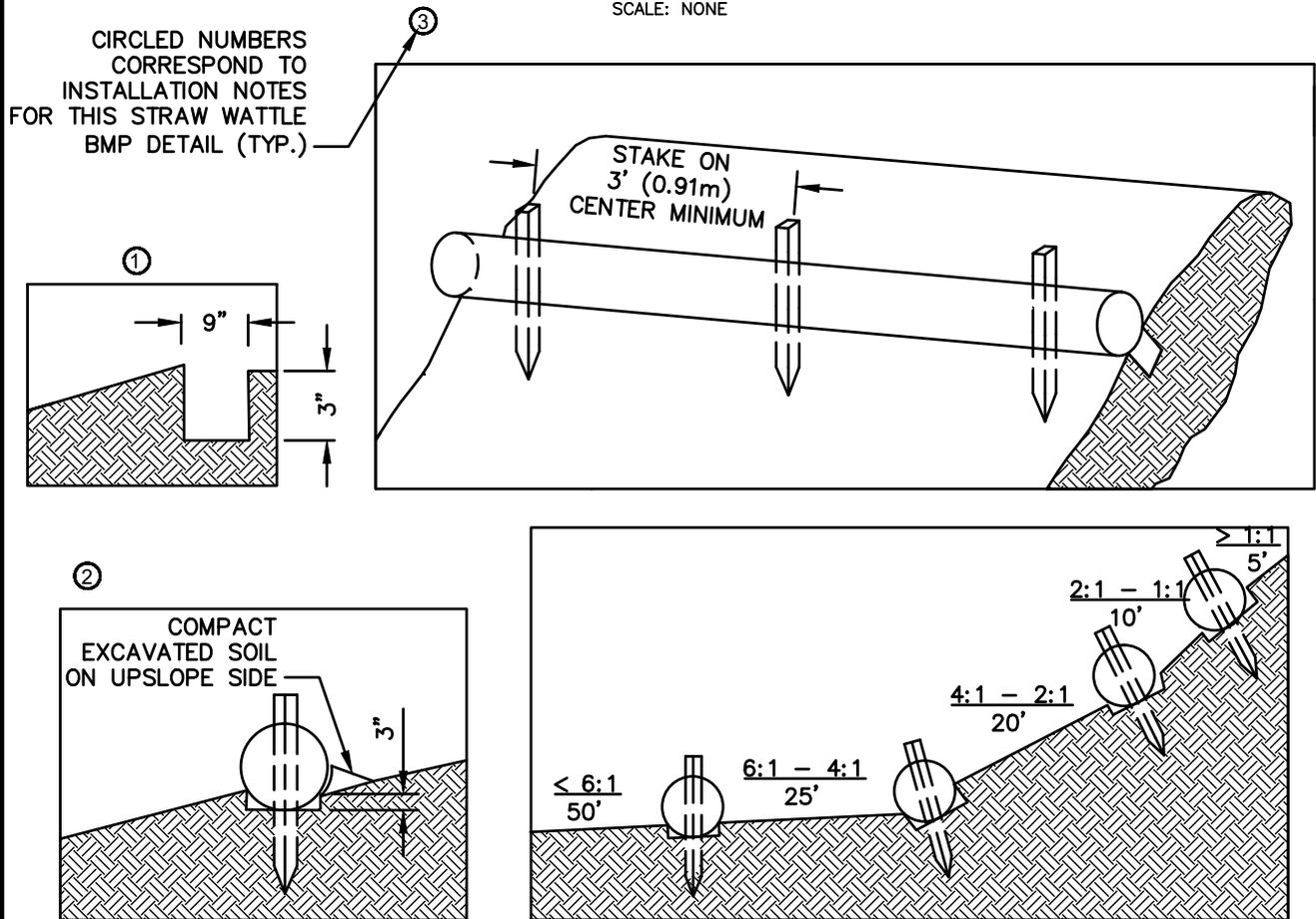
Access, Maintenance and Construction
Best Management Practices

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
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SEC-5
STRAW WATTLE * (1 OF 2)
 126 of 137

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.

* DETAIL AND PICTURE PROVIDED BY TENSAR NORTH AMERICAN GREEN
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SEC-5
STRAW WATTLE * (2 OF 2)
127 of 137

SUBJECT

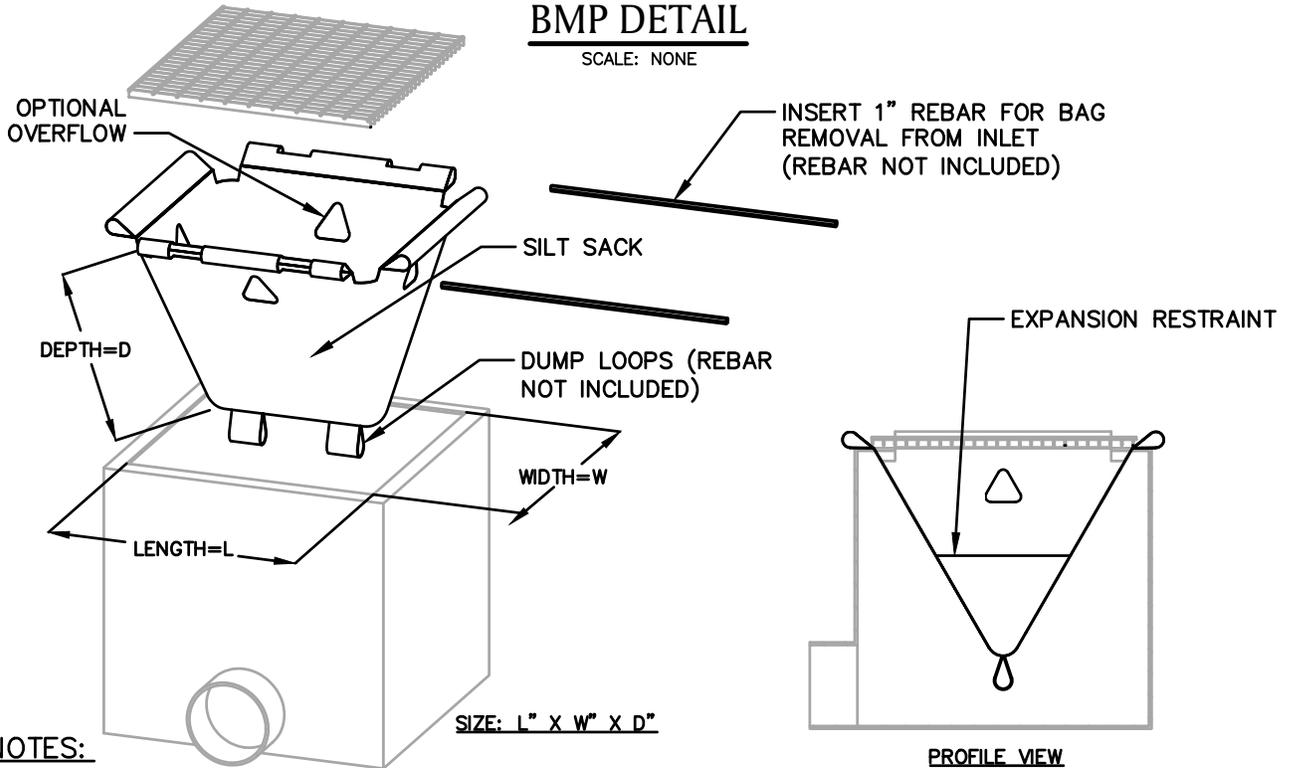
Access, Maintenance and Construction
Best Management Practices

Reference

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

BMP DETAIL

SCALE: NONE



NOTES:

1. PRODUCT TO BE 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
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AA-20
 SILT SACK *

SUBJECT

Access, Maintenance and Construction
Best Management Practices

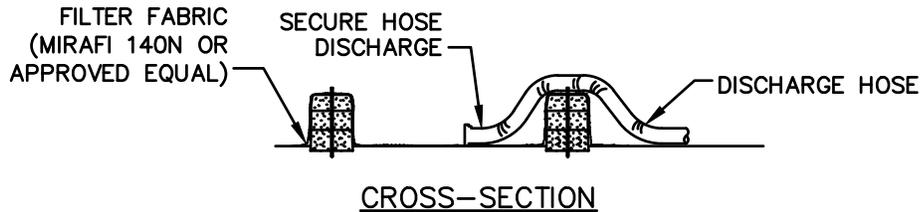
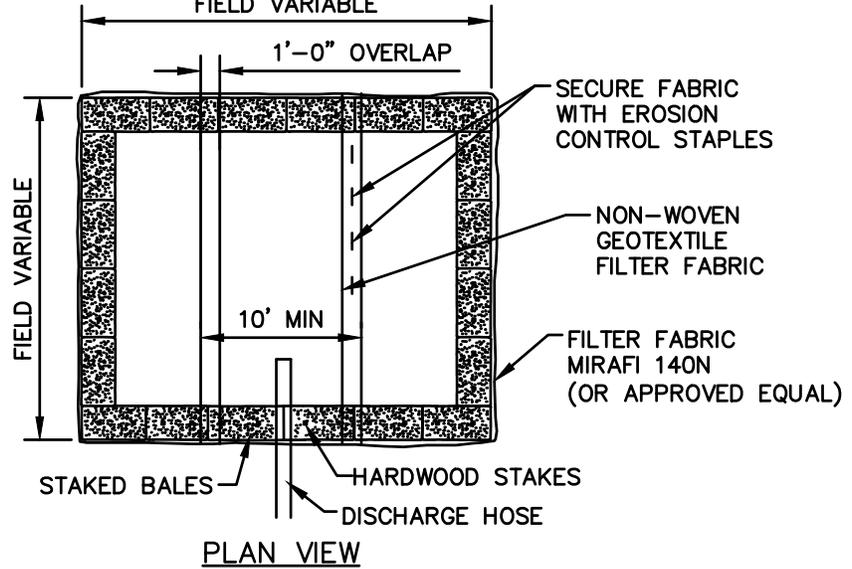
Reference

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

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



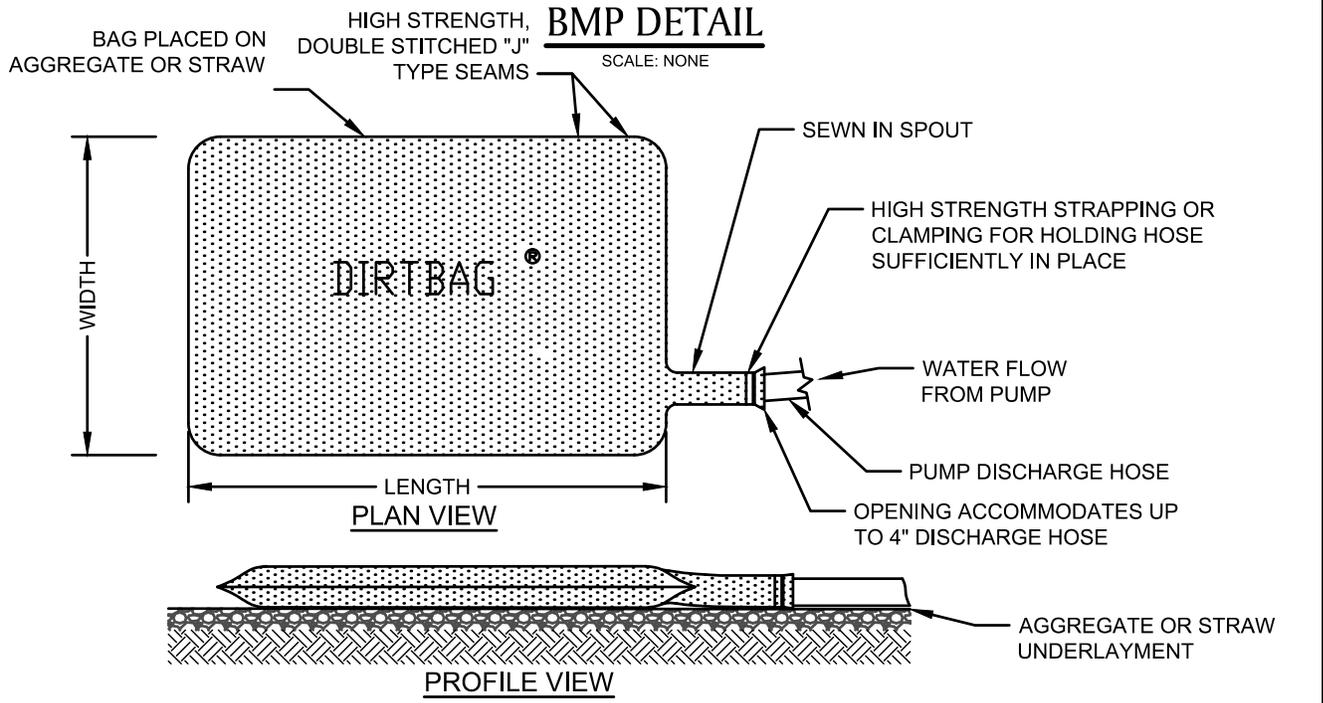
APPROVED BY: VICE PRESIDENT, ENVIRONMENTAL SERVICES

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**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
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AA-12
DIRTBAG *

ATTACHMENT F



CERTIFIED ABUTTERS LIST

Date: August 20, 2024

Subject Property Address: MYSTIC ST from #367-459 and OLD MYSTIC ST from 455 MYSTIC ST to 75 OLD MYSTIC ST

Search Distance: 100 Feet from Street- Conservation

Parcel ID:	Property Location	Owner 1	Owner 2	MAILING ADDRESS				
				Mailing Address 1	Mailing Address 2	Town	State	Zip
77-1-5.C	400 MYSTIC ST	HOWELL JOSHUA A & CHRISTINA A		400 MYSTIC ST		ARLINGTON	MA	02474
77-1-5.A	59 OLD MYSTIC ST	LAMB PETER		59 OLD MYSTIC ST		ARLINGTON	MA	02474
97-2-7.A	68 OLD MYSTIC ST	BEIRNE LAURA M & STEPHEN J		68 OLD MYSTIC STREET		ARLINGTON	MA	02474
75-1-1	4 ROBIN HOOD RD	VINCENT NAZAR		60 ARSENAL ST		WATERTOWN	MA	02472
75-1-6	385 MYSTIC ST	WEINSTOCK DAVID & TANYA G/ TRS	WEINSTOCK FAMILY TRUST	385 MYSTIC ST		ARLINGTON	MA	02474
75-3-3.B	367 MYSTIC ST	MOHTADI-HAGHIGHI SHAHRUZ	MOHTADI-HAGHIGHI FARJAM	367 MYSTIC STREET		ARLINGTON	MA	02474
75-3-6	1 ROBIN HOOD RD	TASHJIAN ERROL & ARPINE		1 ROBIN HOOD RD		ARLINGTON	MA	02474
75-3-7	3 ROBIN HOOD RD	NATHAN MICHAEL T & MICHELE		3 ROBIN HOOD RD		ARLINGTON	MA	02474
77-1-1	418 MYSTIC ST	PETRARCA STEPHEN D ETAL/ TRS	ARIA AND SABINA TRUST	418 MYSTIC ST		ARLINGTON	MA	02474
77-1-2	416 MYSTIC ST	CHOPRA GAUTAM	SIRACUSA TAMAR E & PHYLLIS B	416 MYSTIC ST		ARLINGTON	MA	02474
77-1-3	412 MYSTIC ST	HAMZIC SENAD & AMIRA		412 MYSTIC STREET		ARLINGTON	MA	02474
77-1-4	406 MYSTIC ST	CARAMANIS MICHAEL C--ETAL	CARAMANIS ILEANA P	406 MYSTIC STREET		ARLINGTON	MA	02474
77-1-5	41 OLD MYSTIC ST	MCISAAC LILLIAN D & ROBERT		41 OLD MYSTIC ST		ARLINGTON	MA	02474
77-1-9	75 OLD MYSTIC ST	DRUMMA GREGG A &	DRUMMA ALLISON	75 OLD MYSTIC ST		ARLINGTON	MA	02474
77-1-10	81 OLD MYSTIC ST	JIN HONG C & LI		81 OLD MYSTIC STREET		ARLINGTON	MA	02474
77-1-11	422 MYSTIC ST	YEE TIMOTHY		422 MYSTIC STREET		ARLINGTON	MA	02474
77-2-1.A	0-LOT MYSTIC ST	TOWN OF ARLINGTON CON COM		730 MASS AVE		ARLINGTON	MA	02476
77-2-2	423 MYSTIC ST	LOWENSTEIN CARROLL M JR		423 MYSTIC ST		ARLINGTON	MA	02474
77-2-3	393 MYSTIC ST	DONOVAN DORAN L & KAREN S		393 MYSTIC STREET		ARLINGTON	MA	02474
77-2-4	389 MYSTIC ST	MANNION JANE	HENDERSON ROBERT A	389 MYSTIC ST		ARLINGTON	MA	02474
78-1-1.F	459 MYSTIC ST	OCKERBLOOM GAIL		459 MYSTIC STREET		ARLINGTON	MA	02474
78-1-1.G	455 MYSTIC ST	CHANDLER CHUCK L	BINGHAM DEBRA J	455 MYSTIC ST		ARLINGTON	MA	02474
78-1-1.H	451 MYSTIC ST	451 MYSTIC LLC		189 WELLS AVE	SUITE 302	NEWTON	MA	02459
78-1-1.I	449 MYSTIC ST	BONNELL PATRICIA & STEVEN	TRS/LAKESIDE REALTY TRUST	449 MYSTIC STREET		ARLINGTON	MA	02474
78-1-2.A	441 MYSTIC ST	ARMENIAN CULTURAL	FOUNDATION INC	441 MYSTIC ST		ARLINGTON	MA	02474
78-1-3	429 MYSTIC ST	CAREY RICHARD F ETAL/ TRS	429 MYSTIC STREET REALTY TRUST	429 MYSTIC ST		ARLINGTON	MA	02474
78-2-1.A	442 MYSTIC ST	DOUGLASS ASA D	DOUGLASS JESSICA	442 MYSTIC ST		ARLINGTON	MA	02474
78-2-2	436 MYSTIC ST	FARONE FRANK L		75 SUNSET RD		WINCHESTER	MA	01890
78-2-3	432 MYSTIC ST	FITZPATRICK MICHAEL F		432 MYSTIC ST		ARLINGTON	MA	02474
78-2-4	428 MYSTIC ST	IRANI SAROOSH	KAGAL LALANA	428 MYSTIC STREET		ARLINGTON	MA	02474
78-3-1	94 OLD MYSTIC ST	WINCHESTER COUNTRY CLUB		468 MYSTIC STREET		ARLINGTON	MA	02474
78-3-2	86 OLD MYSTIC ST	CASAGRANDE DIRK R & WERA		86 OLD MYSTIC ST		ARLINGTON	MA	02474
95-1-1.A	388 MYSTIC ST	MASERIAN MARGUERITE		33 OLD MYSTIC ST		ARLINGTON	MA	02474
95-1-1.B	384 MYSTIC ST	MORSE TODD S & HARIVOLOLONA		15 GROVE ST		ARLINGTON	MA	02476



CERTIFIED ABUTTERS LIST

Date: August 20, 2024

Subject Property Address: MYSTIC ST from #367-459 and OLD MYSTIC ST from 455 MYSTIC ST to 75 OLD MYSTIC ST

Search Distance: 100 Feet from Street- Conservation

Parcel ID:	Property Location	Owner 1	Owner 2	MAILING ADDRESS				
				Mailing Address 1	Mailing Address 2	Town	State	Zip
95-1-1.C	392 MYSTIC ST	EGAN MARTHA A		392 MYSTIC STREET		ARLINGTON	MA	02474
95-1-2	372 MYSTIC ST	KARTONO DOUGLAS/JENNIFER		17 OLD MYSTIC ST		ARLINGTON	MA	02474
95-2-6	16 OLD MYSTIC ST	PAPOYAN ASHOT H	BISHARYAN YELENA A	16 OLD MYSTIC ST		ARLINGTON	MA	02474
95-2-7	8 OLD MYSTIC ST	LENNON NIAL J	LENNON LEONIE J	8 OLD MYSTIC ST		ARLINGTON	MA	02474
97-1-1	0-LOT OLD MYSTIC ST	WINCHESTER COUNTRY CLUB		468 MYSTIC ST		ARLINGTON	MA	02474
100-4-1	468 MYSTIC ST	WINCHESTER COUNTRY CLUB		468 MYSTIC ST		ARLINGTON	MA	02474

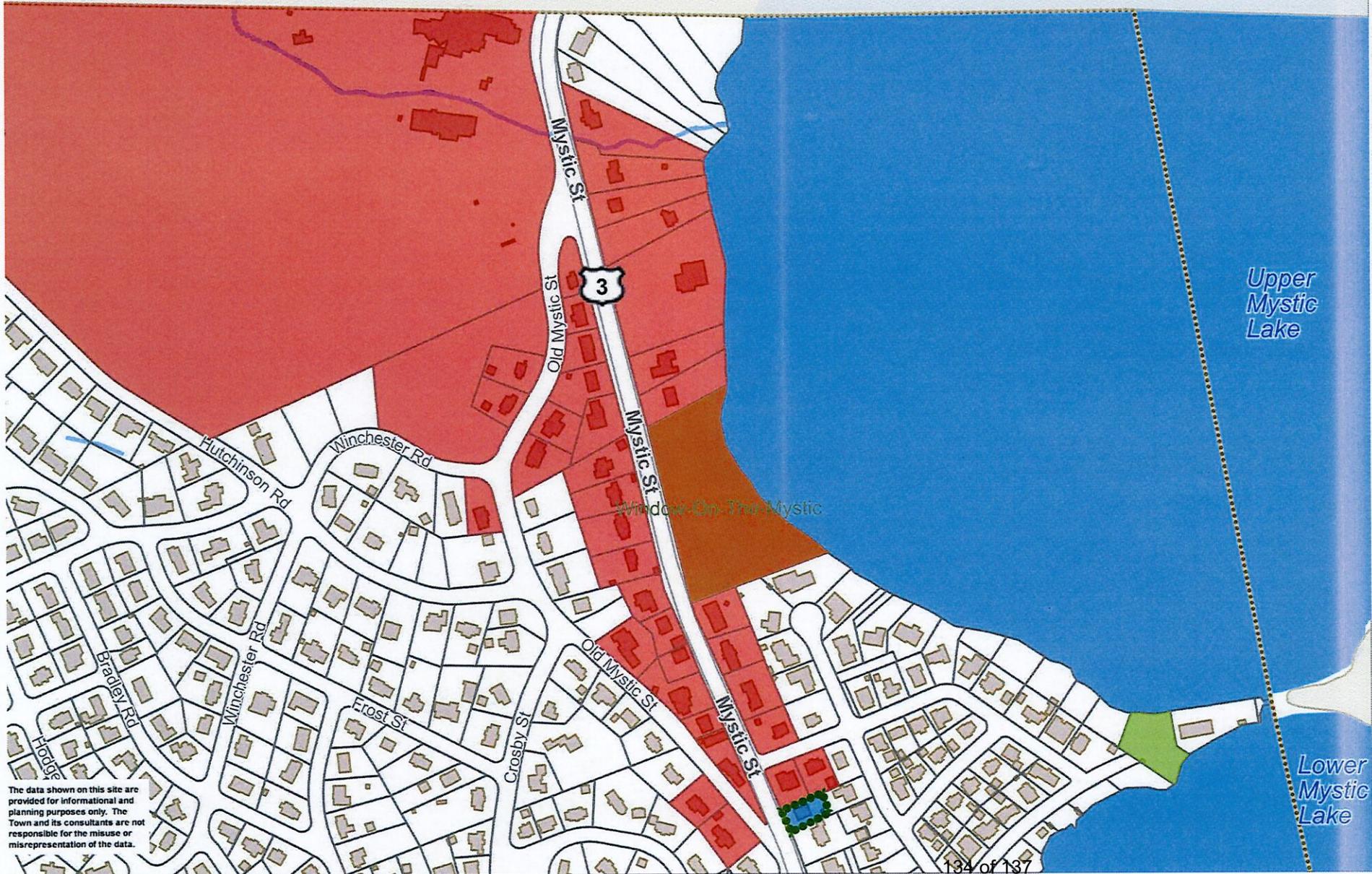
The Board of Assessors certifies the names and addresses of requested parties in interest, all abutters to MYSTIC ST from #367-459 and OLD MYSTIC ST from 455 MYSTIC ST to 75 OLD MYSTIC ST within 100 feet.

Town of Arlington
 Office of the Board of Assessors
 730 Massachusetts Ave
 Arlington, MA 02476
 P: 781.316.3050
 E: assessors@town.arlington.ma.us





- Places by Category
 - Police Station
 - Fire Station
 - School
 - Library
 - Public Works
- Recreation - Facilities
 - Recreation - Fields Cc
 - Recreation - Fields Cc
 - Open Space: Conserv
 - Open Space - Minuter
 - Open Space - Labels
 - Open Space
 - Town, State, or
 - Other Town Ow
- MA Highways
 - Interstate
 - US Highway
 - Numbered Rout
- Abutting Towns
- Town Boundary
- Parcels
- Buildings
- Cemetery - Roads
 - Road1
 - Road2
 - Road3
 - Road4
- Pavement Markings
- Impervious Surface - I
 - Street
 - Sidewalk
 - Street Island
 - Driveway
 - Parking Lot
 - Bike Path
- Roads - For Large Sc
- Roads - For Small Sc
 - Major Road
 - Local Road
- Master Plan Base Map
 - Water Line
 - Water Body



The data shown on this site are provided for informational and planning purposes only. The Town and its consultants are not responsible for the misuse or misrepresentation of the data.

ABUTTER NOTIFICATION

Notification to Abutters Under the Massachusetts Wetlands Protection Act and Arlington Wetlands Protection Bylaw

In accordance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40, and the Arlington Wetlands Protection Bylaw, you are hereby notified of the following:

The Conservation Commission will hold a virtual public meeting using Zoom, on *October 3, 2024* at 7:00 PM in accordance with the provisions of the Mass. Wetlands Protection Act (M.G.L. Ch. 131, s. 40, as amended), the Town of Arlington Bylaws Article 8, Bylaw for Wetland Protection, and in accordance with the Governor's Order Suspending Certain Provisions of the Open Meeting Law, G. L. c. 30A, § 20 relating to the COVID-19 emergency, for a Request for Determination of Applicability from *Boston Gas Company*, for *gas line replacement activities* at *the roadway right-of-way (ROW) at Mystic and North Mystic Street* within 200 feet of a Riverfront and a floodplain. Please refer to the Commission's online meeting agenda for specific Zoom meeting access information.

A copy of the application and accompanying plans are available by request by contacting the Arlington Conservation at 781-316-3012 or concomm@town.arlington.ma.us. For more information, call the applicant (413-572-3224), the Arlington Conservation Commission (781-316-3012), or the DEP Northeast Regional Office (978-694-3200).

NOTE: Notice of the Public Hearing will be published at least five (5) business days in advance in *The Arlington Advocate* and will also be posted at least 48 hours in advance in the Arlington Town Hall.

AFFIDAVIT OF SERVICE

I, *Melissa Coady*, being duly sworn, do hereby state as follows: on *September 18*, I mailed a "Notification to Abutters" in compliance with the second paragraph of Massachusetts General Laws, Chapter 131, s.40, the DEP Guide to Abutter Notification dated April 8, 1994, and the Arlington Wetlands Protection Bylaw, Title V, Article 8 of the Town of Arlington Bylaws in connection with the following matter:

Gas Main Replacement Project

Mystic and Old Mystic Street

The form of the notification, and a list of the abutters to whom it was provided and their addresses, are attached to this Affidavit of Service.

Signed under the pains and penalties of perjury, this *18th* of *September*.



Name

