Bureau of Resource Protection - Wetlands

Form 3 – Notice of Intent
Massachusetts Wetlands Protection Act (M.G.L. c.131 s.40)
Belmont Setback Policy

Belmont Landfill

Belmont, Massachusetts

Submitted to:
Belmont Conservation Commission
Office of Community Development,
Home Municipal Building
19 Moore Street, 2nd Floor
Belmont, MA 02478

MassDEP Northeast Regional Office
205B Lowell Street
Wilmington, Massachusetts 01887

Prepared for:
Langdon Environmental LLC
25 East Main Street
Southborough, MA 01772

Submitted by:
Epsilon Associates, Inc.
3 Mill & Main Place, Suite 250
Maynard, MA 01754

May 22, 2019

Epsilon ASSOCIATES INC.

Epsilon
ASSOCIATES INC.

May 22, 2019

PRINCIPALS

Theodore A Barten, PE
Margaret B Briggs
Dale T Raczynski, PE
Cindy Schlessinger
Lester B Smith, Jr
Robert D O'Neal, CCM, INCE
Andrew D Magee
Michael D Howard, PWS
Douglas J Kelleher
AJ Jablonowski, PE
Stephen H Slocomb, PE
David E Hewett, LEED AP
Dwight R Dunk, LPD
David C Klinch, PWS, PMP
Maria B Hartnett

ASSOCIATES

Richard M Lampeter, INCE
Geoff Starsiak, LEED AP BD+C
Marc Bergeron, PWS, CWS

3 Mill & Main Place, Suite 250
Maynard, MA 01754
www.epsilonassociates.com

978 897 7100
FAX 978 897 0099

Belmont Conservation Commission
Office of Community Development
Homer Municipal Building
19 Moore Street, 2nd Floor
Belmont, MA 02478

Subject: Notice of Intent for the Belmont Incinerator Demolition located at 1034 Concord Avenue, Belmont, MA
Town of Belmont – Applicant

Dear Commission Members:

On behalf of the Applicant and Representative, Epsilon Associates, Inc. submits this Notice of Intent ("NOI") to the Belmont Conservation Commission ("Commission"). This NOI was prepared in accordance with the Massachusetts Wetland Protection Act (the "WPA") (MGL c.131 s.40). We have included one original and eight copies of the NOI and supporting materials. Whereas this is a town sponsored project it is exempt from the WPA fee.

This NOI is submitted to: 1) seek concurrence on the wetland boundaries depicted on the attached figures and plans, and described in the NOI, and 2) to seek approval to demolish the inactive incinerator and appurtenant facilities in and adjacent to wetland resource areas. We respectfully request issuance of an Order of Conditions with pragmatic conditions to protect the Interests of the WPA provided by the on-site and adjacent wetland resource areas.

We submit the enclosed NOI for the Commission's review at the next regularly scheduled public meeting. If you have any questions regarding this NOI please contact me at 978.897.7100 or via email at ddunk@epsilonassociates.com.

Sincerely,
EPSILON ASSOCIATES, INC.

Dwight R. Dunk, LPD, PWS, BCES
Principal

cc: MassDEP, NERO
B. Haskell, Langdon Environmental, LLC

Notice of Intent

Massachusetts Wetlands Protection Act (M.G.L. c.131 §.40)
Belmont Setback Policy

Belmont Landfill
Belmont, Massachusetts

Applicant:
Town of Belmont
Office of Community Development
19 Moore Street, 1st Floor
Belmont, MA 02478

Prepared By:
Epsilon Associates, Inc.
3 Mill& Main Place, Suite 250
Maynard, MA 01754

May 22, 2019

Table of Contents

TABLE OF CONTENTS

List of Attachments

List of Attachments (Continued)

List of Figures in Attachment B

WPA Form 3 – Notice of Intent

Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

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

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Belmont
City/Town

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

Note: Before completing this form consult your local Conservation Commission regarding any municipal bylaw or ordinance.

A. General Information

1. Project Location (**Note:** electronic filers will click on button to locate project site):

1034 Concord Avenue — a. Street Address
Belmont — b. City/Town
02478 — c. Zip Code

Latitude and Longitude:
42.406407 — d. Latitude
-71.202493 — e. Longitude

26 — f. Assessors Map/Plat Number
64-3 — g. Parcel /Lot Number

2. Applicant:

a. First Name
b. Last Name
Town of Belmont (Office of Community Development) — c. Organization
19 Moore Street, 1st Floor — d. Street Address
Belmont — e. City/Town
MA — f. State
02478 — g. Zip Code
617-993-2650 — h. Phone Number
617-993-2651 — i. Fax Number
GClancy@Belmont-ma.gov — j. Email Address

3. Property owner (required if different from applicant): ☐ Check if more than one owner

a. First Name
b. Last Name
c. Organization
d. Street Address
e. City/Town
f. State
g. Zip Code
h. Phone Number
i. Fax Number
j. Email address

4. Representative (if any):

Dwight — a. First Name
Dunk — b. Last Name
Epsilon Associates, Inc. — c. Company
3 Mill & Main Place, Suite 250 — d. Street Address
Maynard — e. City/Town
MA — f. State
01754 — g. Zip Code
978-461-6226 — h. Phone Number
978-897-0099 — i. Fax Number
ddunk@epsilonassociates.com — j. Email address

5. Total WPA Fee Paid (from NOI Wetland Fee Transmittal Form):

Fee Exempt — a. Total Fee Paid
Fee Exempt — b. State Fee Paid
Fee Exempt — c. City/Town Fee Paid

A. General Information (continued)

6. General Project Description:

Demolish closed municipal waste incinerator. See Attachment A, Project Narrative.

7a. Project Type Checklist: (Limited Project Types see Section A. 7b.)

1. ☐ Single Family Home
2. ☐ Residential Subdivision
3. ☐ Commercial/Industrial
4. ☐ Dock/Pier
5. ☐ Utilities
6. ☐ Coastal engineering Structure
7. ☐ Agriculture (e.g., cranberries, forestry)
8. ☐ Transportation
9. ☒ Other

7b. Is any portion of the proposed activity eligible to be treated as a limited project (including Ecological Restoration Limited Project) subject to 310 CMR 10.24 (coastal) or 310 CMR 10.53 (inland)?

1. ☐ Yes ☒ No

If yes, describe which limited project applies to this project. (See 310 CMR 10.24 and 10.53 for a complete list and description of limited project types)

2. Limited Project Type

If the proposed activity is eligible to be treated as an Ecological Restoration Limited Project (310 CMR10.24(8), 310 CMR 10.53(4)), complete and attach Appendix A: Ecological Restoration Limited Project Checklist and Signed Certification.

8. Property recorded at the Registry of Deeds for:

Middlesex County	
a. County	b. Certificate # (if registered land)
11295	460
c. Book	d. Page Number

B. Buffer Zone & Resource Area Impacts (temporary & permanent)

1. ☐ Buffer Zone Only – Check if the project is located only in the Buffer Zone of a Bordering Vegetated Wetland, Inland Bank, or Coastal Resource Area.
2. ☒ Inland Resource Areas (see 310 CMR 10.54-10.58; if not applicable, go to Section B.3, Coastal Resource Areas).

Check all that apply below. Attach narrative and any supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.

B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

For all projects affecting other Resource Areas, please attach a narrative explaining how the resource area was delineated.

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. ☐ Bank	1. linear feet	2. linear feet
b. ☐ Bordering Vegetated Wetland	1. square feet	2. square feet
c. ☐ Land Under Waterbodies and Waterways	1. square feet 3. cubic yards dredged	2. square feet

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
d. ☒ Bordering Land Subject to Flooding	18,281 s.f. (temporary) 1. square feet 0 c.f. 3. cubic feet of flood storage lost	18,281 s.f. (restored in-situ) 2. square feet 0 c.f. 4. cubic feet replaced
e. ☐ Isolated Land Subject to Flooding	1. square feet 2. cubic feet of flood storage lost	3. cubic feet replaced
f. ☒ Riverfront Area	Beaver Brook (inland) 1. Name of Waterway (if available) - **specify coastal or inland**	

2. Width of Riverfront Area (check one):

☐ 25 ft. - Designated Densely Developed Areas only

☐ 100 ft. - New agricultural projects only

☒ 200 ft. - All other projects

3. Total area of Riverfront Area on the site of the proposed project: +/- 524,570 square feet

4. Proposed alteration of the Riverfront Area:

24,983 (temporary)	11,873 (temporary)	13,110 (temporary)
a. total square feet	b. square feet within 100 ft.	c. square feet between 100 ft. and 200 ft.

5. Has an alternatives analysis been done and is it attached to this NOI? ☐ Yes ☒ No

6. Was the lot where the activity is proposed created prior to August 1, 1996? ☒ Yes ☐ No

3. ☐ Coastal Resource Areas: (See 310 CMR 10.25-10.35)

Note: for coastal riverfront areas, please complete **Section B.2.f**. above.

B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

Check all that apply below. Attach narrative and supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.

Online Users: Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. ☐ Designated Port Areas	Indicate size under Land Under the Ocean, below	
b. ☐ Land Under the Ocean	1. square feet 2. cubic yards dredged	
c. ☐ Barrier Beach	Indicate size under Coastal Beaches and/or Coastal Dunes below	
d. ☐ Coastal Beaches	1. square feet	2. cubic yards beach nourishment
e. ☐ Coastal Dunes	1. square feet	2. cubic yards dune nourishment

	Size of Proposed Alteration	Proposed Replacement (if any)
f. ☐ Coastal Banks	1. linear feet	
g. ☐ Rocky Intertidal Shores	1. square feet	
h. ☐ Salt Marshes	1. square feet	2. sq ft restoration, rehab., creation
i. ☐ Land Under Salt Ponds	1. square feet 2. cubic yards dredged	
j. ☐ Land Containing Shellfish	1. square feet	
k. ☐ Fish Runs	Indicate size under Coastal Banks, inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above 1. cubic yards dredged	
l. ☐ Land Subject to Coastal Storm Flowage	1. square feet	

4. ☐ Restoration/Enhancement
If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been entered in Section B.2.b or B.3.h above, please enter the additional amount here.

a. square feet of BVW | b. square feet of Salt Marsh

5. ☐ Project Involves Stream Crossings

a. number of new stream crossings | b. number of replacement stream crossings

C. Other Applicable Standards and Requirements

☐ This is a proposal for an Ecological Restoration Limited Project. Skip Section C and complete Appendix A: Ecological Restoration Notice of Intent – Required Actions (310 CMR 10.11).

Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

1. Is any portion of the proposed project located in **Estimated Habitat of Rare Wildlife** as indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetland Wildlife published by the Natural Heritage and Endangered Species Program (NHESP)? To view habitat maps, see the *Massachusetts Natural Heritage Atlas* or go to http://maps.massgis.state.ma.us/PRI_EST_HAB/viewer.htm.

   a. ☐ Yes ☒ No

   If yes, include proof of mailing or hand delivery of NOI to:

   Natural Heritage and Endangered Species Program
   Division of Fisheries and Wildlife
   1 Rabbit Hill Road
   Westborough, MA 01581

   2017
   b. Date of map

   If *yes*, the project is also subject to Massachusetts Endangered Species Act (MESA) review (321 CMR 10.18). To qualify for a streamlined, 30-day, MESA/Wetlands Protection Act review, please complete Section C.1.c, and include requested materials with this Notice of Intent (NOI); *OR* complete Section C.2.f, if applicable. *If MESA supplemental information is not included with the NOI, by completing Section 1 of this form, the NHESP will require a separate MESA filing which may take up to 90 days to review (unless noted exceptions in Section 2 apply, see below).*

   c. Submit Supplemental Information for Endangered Species Review*

      1. ☐ Percentage/acreage of property to be altered:

         (a) within wetland Resource Area _____ percentage/acreage

         (b) outside Resource Area _____ percentage/acreage

      2. ☐ Assessor's Map or right-of-way plan of site

2. ☐ Project plans for entire project site, including wetland resource areas and areas outside of wetlands jurisdiction, showing existing and proposed conditions, existing and proposed tree/vegetation clearing line, and clearly demarcated limits of work **

   (a) ☐ Project description (including description of impacts outside of wetland resource area & buffer zone)

   (b) ☐ Photographs representative of the site

---

* Some projects **not** in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see http://www.mass.gov/eea/agencies/dfg/dfw/natural-heritage/regulatory-review/). Priority Habitat includes habitat for state-listed plants and strictly upland species not protected by the Wetlands Protection Act.

** MESA projects may not be segmented (321 CMR 10.16). The applicant must disclose full development plans even if such plans are not required as part of the Notice of Intent process.

C. Other Applicable Standards and Requirements (cont'd)

(c) ☐ MESA filing fee (fee information available at http://www.mass.gov/dfwele/dfw/nhesp/regulatory_review/mesa/mesa_fee_schedule.htm). Make check payable to "Commonwealth of Massachusetts - NHESP" and ***mail to NHESP*** at above address

*Projects altering **10 or more acres** of land, also submit:*

(d) ☐ Vegetation cover type map of site

(e) ☐ Project plans showing Priority & Estimated Habitat boundaries

(f) OR Check One of the Following

1. ☐ Project is exempt from MESA review.
Attach applicant letter indicating which MESA exemption applies. (See 321 CMR 10.14, http://www.mass.gov/dfwele/dfw/nhesp/regulatory_review/mesa/mesa_exemptions.htm; the NOI must still be sent to NHESP if the project is within estimated habitat pursuant to 310 CMR 10.37 and 10.59.)

2. ☐ Separate MESA review ongoing. a. NHESP Tracking # _____ b. Date submitted to NHESP _____

3. ☐ Separate MESA review completed.
Include copy of NHESP "no Take" determination or valid Conservation & Management Permit with approved plan.

3. For coastal projects only, is any portion of the proposed project located below the mean high water line or in a fish run?

a. ☒ Not applicable – project is in inland resource area only b. ☒ Yes ☐ No

If yes, include proof of mailing, hand delivery, or electronic delivery of NOI to either:

South Shore - Cohasset to Rhode Island border, and the Cape & Islands:

Division of Marine Fisheries -
Southeast Marine Fisheries Station
Attn: Environmental Reviewer
1213 Purchase Street – 3rd Floor
New Bedford, MA 02740-6694
Email: DMF.EnvReview-South@state.ma.us

North Shore - Hull to New Hampshire border:

Division of Marine Fisheries -
North Shore Office
Attn: Environmental Reviewer
30 Emerson Avenue
Gloucester, MA 01930
Email: DMF.EnvReview-North@state.ma.us

Also if yes, the project may require a Chapter 91 license. For coastal towns in the Northeast Region, please contact MassDEP's Boston Office. For coastal towns in the Southeast Region, please contact MassDEP's Southeast Regional Office.

C. Other Applicable Standards and Requirements (cont'd)

Online Users: Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.

4. Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?

   a. ☐ Yes ☒ No If yes, provide name of ACEC (see instructions to WPA Form 3 or MassDEP Website for ACEC locations). **Note:** electronic filers click on Website.

   b. ACEC

5. Is any portion of the proposed project within an area designated as an Outstanding Resource Water (ORW) as designated in the Massachusetts Surface Water Quality Standards, 314 CMR 4.00?

   a. ☐ Yes ☒ No

6. Is any portion of the site subject to a Wetlands Restriction Order under the Inland Wetlands Restriction Act (M.G.L. c. 131, § 40A) or the Coastal Wetlands Restriction Act (M.G.L. c. 130, § 105)?

   a. ☐ Yes ☒ No

7. Is this project subject to provisions of the MassDEP Stormwater Management Standards?

   a. ☐ Yes. Attach a copy of the Stormwater Report as required by the Stormwater Management Standards per 310 CMR 10.05(6)(k)-(q) and check if:

      1. ☐ Applying for Low Impact Development (LID) site design credits (as described in Stormwater Management Handbook Vol. 2, Chapter 3)

      2. ☐ A portion of the site constitutes redevelopment

      3. ☐ Proprietary BMPs are included in the Stormwater Management System.

   b. ☒ No. Check why the project is exempt:

      1. ☐ Single-family house

      2. ☐ Emergency road repair

      3. ☐ Small Residential Subdivision (less than or equal to 4 single-family houses or less than or equal to 4 units in multi-family housing project) with no discharge to Critical Areas.

D. Additional Information

☐ This is a proposal for an Ecological Restoration Limited Project. Skip Section D and complete Appendix A: Ecological Restoration Notice of Intent – Minimum Required Documents (310 CMR 10.12).

Applicants must include the following with this Notice of Intent (NOI). See instructions for details.

Online Users: Attach the document transaction number (provided on your receipt page) for any of the following information you submit to the Department.

1. ☒ USGS or other map of the area (along with a narrative description, if necessary) containing sufficient information for the Conservation Commission and the Department to locate the site. (Electronic filers may omit this item.)

2. ☒ Plans identifying the location of proposed activities (including activities proposed to serve as a Bordering Vegetated Wetland [BVW] replication area or other mitigating measure) relative to the boundaries of each affected resource area.

D. Additional Information (cont'd)

3. ☒ Identify the method for BVW and other resource area boundary delineations (MassDEP BVW Field Data Form(s), Determination of Applicability, Order of Resource Area Delineation, etc.), and attach documentation of the methodology.

4. ☒ List the titles and dates for all plans and other materials submitted with this NOI.

See Table of Contents
a. Plan Title

b. Prepared By
c. Signed and Stamped by

d. Final Revision Date
e. Scale

f. Additional Plan or Document Title
g. Date

5. ☐ If there is more than one property owner, please attach a list of these property owners not listed on this form.

6. ☐ Attach proof of mailing for Natural Heritage and Endangered Species Program, if needed.

7. ☐ Attach proof of mailing for Massachusetts Division of Marine Fisheries, if needed.

8. ☒ Attach NOI Wetland Fee Transmittal Form

9. ☐ Attach Stormwater Report, if needed.

E. Fees

1. ☒ Fee Exempt: No filing fee shall be assessed for projects of any city, town, county, or district of the Commonwealth, federally recognized Indian tribe housing authority, municipal housing authority, or the Massachusetts Bay Transportation Authority.

Applicants must submit the following information (in addition to pages 1 and 2 of the NOI Wetland Fee Transmittal Form) to confirm fee payment:

2. Municipal Check Number
3. Check date

4. State Check Number
5. Check date

6. Payor name on check: First Name
7. Payor name on check: Last Name

F. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Notice of Intent and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge. I understand that the Conservation Commission will place notification of this Notice in a local newspaper at the expense of the applicant in accordance with the wetlands regulations, 310 CMR 10.05(5)(a).

I further certify under penalties of perjury that all abutters were notified of this application, pursuant to the requirements of M.G.L. c. 131, § 40. Notice must be made by Certificate of Mailing or in writing by hand delivery or certified mail (return receipt requested) to all abutters within 100 feet of the property line of the project location.

1. Signature of Applicant	2. Date 5/20/19
3. Signature of Property Owner (if different)	4. Date
Dwight R. Dennis 5. Signature of Representative (if any)	5/21/19 6. Date

For Conservation Commission:
Two copies of the completed Notice of Intent (Form 3), including supporting plans and documents, two copies of the NOI Wetland Fee Transmittal Form, and the city/town fee payment, to the Conservation Commission by certified mail or hand delivery.

For MassDEP:
One copy of the completed Notice of Intent (Form 3), including supporting plans and documents, one copy of the NOI Wetland Fee Transmittal Form, and a **copy** of the state fee payment to the MassDEP Regional Office (see Instructions) by certified mail or hand delivery.

Other:
If the applicant has checked the "yes" box in any part of Section C, Item 3, above, refer to that section and the Instructions for additional submittal requirements.

The original and copies must be sent simultaneously. Failure by the applicant to send copies in a timely manner may result in dismissal of the Notice of Intent.

Attachment A

Project Narrative

ATTACHMENT A PROJECT NARRATIVE

1.0 Introduction

Epsilon Associates, Inc. ("Epsilon") in association with Langdon Environmental, LLC ("Langdon") and on behalf of the Town of Belmont (the "Applicant") submits this Notice of Intent ("NOI") to demolish the inactive incinerator building and appurtenant facilities at the Belmont Landfill ("Landfill" or "Project Site") located off Concord Avenue. We also seek concurrence on the wetland resource area boundaries described in this NOI and depicted on attached figures and plans. This NOI was prepared in accordance with the Massachusetts Wetland Protection Act (MGL c.131 s.40) (the "Act") and implementing Wetland Protection Regulations (310 CMR 10.00) ("Wetland Regulations").

The Landfill is located off Concord Avenue in Belmont, Massachusetts, see Attachment B, Figures 1 and 2 which depict the Landfill location. Wetland resource areas were delineated by Epsilon on October 22nd and 23rd 2018 within and proximate to the Landfill site. State jurisdictional wetland resource areas, or portions thereof, in and adjacent to the work area limits include:

- Bordering Vegetated Wetland ("BVW");
- Bordering Land Subject to Flooding ("BLSF");
- Land Under Water ("LUW");
- Inland Bank ("Bank"); and
- Riverfront Area ("RFA").

2.0 Existing Conditions

The Project Site includes the Belmont Landfill and the inactive solid waste incinerator located off Concord Avenue in Belmont, MA. The Landfill is accessed off Concord Avenue via Incinerator Drive, and is bordered to the north by an un-named stream along Concord Avenue, the same un-named stream to the east and southeast, Beaver Brook to the southwest and undeveloped land to the west (Attachment B, Figure 1). The Landfill is surrounded by wetland resource areas on all sides except the northeast, where it is bordered by Concord Avenue and a residential neighborhood. Beaver Brook is a perennial stream, and the un-named tributary that conveys flow southward from ponds on the Belmont Country Club to Beaver brook was also determined to be a perennial stream.

The Federal Emergency Management Agency ("FEMA") Flood Insurance Rate Map ("FIRM") for this area identifies two flood zone designations in the Project Site, Zone A and Zone X[1] (Federal Emergency Management Agency – Flood Insurance Rate Map for Middlesex County, Massachusetts, Community Panel Numbers 25017C412E and 25017C0414E, both dated June 4, 2010) (Attachment B, Figure 4).

2.1 Soils

Review of the USDA Natural Resources Conservation Service ("NRCS") Web Soil Survey, identifies the following Soil Map Units (i.e. Soil Units occupying greater than 5% of the area of interest) as:

- Swansea muck;
- Udorthents, urban land complex; and
- Udorthents, refuse substratum.

Whereas the Project Site is the closed Belmont Landfill, the majority of the mapped soils units reflect non-native soil types (i.e., Udorthents).

2.2 Threatened and Endangered Species

As depicted on Figure 5, the Project Site does not overlap Massachusetts Natural Heritage and Endangered Species Program ("NHESP") Priority Habitat for State-Protected Rare Species or Estimated Habitat for Rare Wildlife Natural Heritage Atlas, 2017). The Project Site is adjacent to both NHESP Priority Habitat for State-Protected Rare Species and Estimated Habitat for Rare Wildlife to the east and south of the Landfill, the boundary of which follows the Belmont/Waltham municipal boundary. Three certified vernal pools and three potential vernal pools are located within 500 feet of the Project Site.

3.0 Wetland Resource Areas

Wetland resource areas on and proximate to the Landfill were delineated by Epsilon on October 22 and 23, 2018. Vegetated wetlands were identified and demarcated in the field pursuant to: 1) the U.S. Army Corps of Engineers *Wetland Delineation Manual* (USACE, 1987), 2) the "Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region, Version 2.0" (2012), 3) the Massachusetts Wetlands Protection Act and Wetland Regulations, and 4) the Massachusetts Department of Environmental Protection's handbook, *Delineating Bordering Vegetated Wetlands Under the Massachusetts Wetlands*

[1] Zone A is an area of 1% chance annual flood (100-year flood) and for which no base flood elevations were determined. Zone X is an area of 0.2% annual chance of flood (500-year flood); areas of 1% chance of flood with average depth less than 1 foot; or with a drainage area less than 1 square mile.

Protection Act (MADEP, 1995). The federal and state delineation methodologies generally prescribe a multi-parameter approach, where hydrophytic vegetation, hydrology and soils are evaluated in conjunction with one another to define the wetland – upland boundary.

3.1 State Wetland Resource Area Definitions

Definitions of on-site wetland resources are presented below.

Bordering Vegetated Wetland

According to 310 CMR 10.55, Bordering Vegetated Wetlands ("BVW") are freshwater wetlands which border on creeks, rivers, streams, ponds and lakes. The types of freshwater wetlands are wet meadows, marshes, swamps and bogs. Bordering Vegetated Wetlands are areas where the soils are saturated and/or inundated such that they support a predominance of wetland indicator plants. The ground and surface water regime and the vegetative community which occur in each type of freshwater wetland are specified in the Wetlands Protection Act ("the Act"), M.G.L. c. 131, §40. BVWs are presumed significant to public or private water supply, to ground water supply, to flood control, to storm damage prevention, to prevention of pollution, to the protection of fisheries and to wildlife habitat. A 100-foot buffer zone is associated with BVW.

Four BVW series were identified and delineated on the Landfill property. See Table 3-1 below for a summary description of each.

Bordering Land Subject to Flooding

According to 310 CMR 10.57, Bordering Land Subject to Flooding ("BLSF") is an area with low, flat topography adjacent to and inundated by flood waters rising from creeks, rivers, streams, ponds or lakes. It extends from the banks of these waterways and water bodies; where a bordering vegetated wetland occurs, it extends from said wetland. The boundary of BLSF is the estimated maximum lateral extent of flood water which will theoretically result from the statistical 100-year frequency storm. Such areas are likely to be significant to flood control and storm damage prevention. FEMA FIRMs are presumed to accurately define the limit of BLSF. The boundary of BLSF is defined by the Zone A depicted on Figure 3 and Figure 4. No elevation has been determined by FEMA for this Zone A floodplain.

Land Under Water

According to 310 CMR 10.56, Land Under Water ("LUW") is the land beneath any creek, river, stream, pond or lake. Said land may be composed of organic muck or peat, fine sediments, rocks or bedrock. The boundary of Land Under Water Bodies and Waterways is the mean annual low water level. LUW is likely to be significant to public and private water supply, to ground water supply, to flood control, to storm damage prevention, to prevention of pollution

and to protection of fisheries and wildlife habitat. Where such land is composed of concrete, asphalt or other artificial impervious material, said land is likely to be significant to flood control and storm damage prevention.

Land Under Water adjacent to the Landfill is associated with Beaver Brook and the unnamed tributary thereto. These watercourses were determined to be perennial because; 1) they are depicted as perennial in the USGS quadrangle (Figure 1), and 2) the watersheds for each are greater than ½ square mile based on results of the USGS Stream Stats program. Pursuant to 310 CMR 10.58(2)(a)1 watercourse with a watershed greater than ½ square mile are identified as perennial watercourses.

Inland Bank

According to 310 CMR 10.54, Inland Bank ("Bank") is the portion of the land surface which normally abuts and confines a water body. It occurs between a water body and a vegetated bordering wetland and adjacent flood plain, or, in the absence of these, it occurs between a water body and upland. The upper boundary of a Bank is the first observable break in the slope or the mean annual flood level, whichever is lower. The lower boundary of a Bank is the mean annual low flow level. Banks are likely to be significant to public or private water supply, to ground water supply, to flood control, to storm damage prevention, to the prevention of pollution and to the protection of fisheries and wildlife habitat. Where Banks are composed of concrete, asphalt or other artificial impervious material, said Banks are likely to be significant to flood control and storm damage prevention. A 100-foot buffer zone is associated with Inland Bank.

Inland Bank on the Landfill Site is associated with Beaver Brook and the un-named tributary to Beaver Brook.

Riverfront Area

According to 310 CMR 10.58, Riverfront Area ("RFA") is the area of land between a river's mean annual high water line and a parallel line measured horizontally. The riverfront area may include or overlap other resource areas or their buffer zones. The riverfront area does not have a buffer zone. Riverfront areas are likely to be significant to protect the private or public water supply; to protect groundwater; to provide flood control; to prevent storm damage; to prevent pollution; to protect land containing shellfish; to protect wildlife habitat; and to protect the fisheries. The RFA extends 200 feet horizontally from the mean annual high water line of Beaver Brook and the un-named tributary. The approximate limit of the RFA is depicted on Figure 6.

3.2 On-Site Wetland Resource Areas

Wetland resource areas regulated by the Act and defined in the Wetland Regulations were identified on and adjacent to the Project Site are described below Table 3-1 and the area of temporary alteration to BLSF and RFA are presented in Table 3-2.

We request concurrence of the wetland boundaries for BVW, Inland Bank, and RFA as depicted on Sheet 1 of 1 – Existing Conditions, prepared by Langdon Environmental LLC, and prepared at a scale of 1" = 60'. The limit of BLSF is depicted on Figure 4 – FEMA FIRM at a scale of 1" = 300'. Because the 100-year flood plain is designated as Zone A, with no flood elevation determined, we compared the Zone A polygon with the USGS topography to identify an approximate flood plain elevation. That comparison suggests that the Zone A polygon boundary most closely follows the 51 meter NAVD88 contour (elevation 168 feet NAVD) in the Landfill area, and we respectfully request that elevation 168 feet NAVD be used to define the limit of BLSF on the Project Site.

Table 3-1 Summary of Field Delineated Wetland Resource Areas

Series	Inland Bank	BVW	RFA	Dominant Plant Species
Series A (A-1 to A-78, with A-30A through F)		X		Dominant vegetation includes: tree of heaven (*Ailanthus altissima*), Japanese knotweed (*Fallopia japonica*), poison ivy (*Toxicodendron radicans*), catalpa (*Catalpa speciosa)*, buckthorn (*Rhamnus cathartica*), locust (*Gleditsia triacanthos*), ash leaf maple (*Acer negundo*), cattail (*Typha latifolia*), phragmites (*Phragmites australis*), buttonbush (*Cephalanthus occidentalis*) and royal fern (*Osmunda spectabilis*).
Series B (B-5 to B-10 open, B-11 open to B-31 open)		X		Dominant vegetation includes: Japanese knotweed, poison ivy, speckled alder (*Alnus incana*), red osier dogwood (*Cornus alba*), sedges (*Carex sp.*), and phragmites.
Series C (C-1 to C-8)		X		Dominant vegetation includes: stinging nettle (*Urtica diocia*), grape vine (*Vitis sp.*) and Japanese knotweed.
Series D (D-1 to D-13)		X		Dominant vegetation includes: green ash (*Fraxinus pennsylvanica*), Japanese knotweed, phragmites, and poison ivy.
Bank Series B (B-1 to B-4)	X		X	Four bank flags flow west from a culvert into BVW Series B described above.
Bank Series BA (BA-1 to BA-25)	X		X	Bank Series BA flows southeast and has three culverts flowing into and out of it. It is approximately 10-20 feet in width. Trash and other debris were present on the bank.

Table 3-1 Summary of Field Delineated Wetland Resource Areas (Continued)

Series	Inland Bank	BVW	RFA	Dominant Plant Species
Bank Series BB (BB-1 to BB-5)	X		X	Bank Series BB delineates the bank flowing XX from bank series BA through a culvert. The bank continues to flow through an emergent marsh south of the landfill.
Bank Series BC (BC-1 to BC-28)	X		X	Bank Series BC delineates the bank flowing around most of the landfill property and is bordered by wetland series A (flags A-1 to A-41).

Table 3-2 Temporary Alterations to Wetland Resource Areas

Wetland Resource Area	Total Temporary Impacts in Square Feet
200-foot Riverfront Area	24,983 s.f.
Bordering Land Subject to Flooding	18,281 s.f.
Bordering Vegetated Wetlands	0 s.f.
100-foot Buffer Zone	11,873 s.f.

4.0 Description of Proposed Work

4.1 Introduction

The Landfill supports the abandoned solid waste incinerator and closed solid waste landfill located off Concord Avenue. The purpose and need of the project is the demolition of the incinerator building and readiness of the Project Site for future landfill capping in accordance with the Massachusetts Solid Waste Management Regulations (310 CMR 19.000) ("Solid Waste Regulations"). Work proposed at this time is limited to demolishing the incinerator building and appurtenant facilities. Before demolition work begins, sedimentation control barriers will be installed and erosion control measures will be implemented; and upon completion the work area will be graded, loam will be placed and the area seeded to establish a grass cover to stabilize exposed soils. The work area is currently disturbed land with portions of the Project Site regulated as BLSF and RFA, with the 100-foot Buffer Zone review area also extending onto the work area from Inland Bank and BVW. The work area is approximately 0.57 acres and temporary disturbance in wetland resource areas and buffer zone is presented above in Table 3-2.

4.2 Description of Demolition Activities

The property is owned by the Town of Belmont, therefore any references to "owner" on the attached plans means the Town of Belmont. Before building demolition begins the contractor will remove all hazardous materials pursuant to specifications and applicable federal, state and local regulations. Erosion control measures and sedimentation barriers will be installed before earth disturbing activities begin. Note the Massachusetts Stormwater Regulations are not applicable to this Project because this Project does not include: installing or modifying a drainage system, installing a new discharge outfall, or increasing impervious cover on the Project Site. A Stormwater Pollution Prevention Plan ("SWPPP") is required in accordance with the National Pollutant Discharge and Elimination System ("NPDES") Construction General Permit ("CGP") administered by the U.S. Environmental Protection Agency ("USEPA") which will be prepared and noticed to the USEPA prior to the start of work. A summary of proposed erosion and sedimentation controls is provided below on Section 4.3.

The limit of work is indicated on the attached Project Plans and includes the site access driveway for the purpose of this NOI. To facilitate demolition activities, the work area will be cleared and grubbed, and all vegetation, cuttings, chippings, etc. will be disposed off-site. Some materials surrounding the building: including but not limited to soil, pavement, stockpiles, concrete blocks in front of the building, precast concrete barriers, granite curbing/slabs, boulders, concrete debris, bricks, and creosote timbers within the limit of work will be relocated on-site to a location identified by the Town (Sheet D-03).

Incinerator demolition work involves the removal and disposal of the incinerator building including all interior and exterior equipment within and attached to the incinerator building. The exterior foundation walls will be removed to elevations shown on sheets D-07 through D-09. The floor slabs will be removed in all areas with the exception of the areas shown on sheet D-9 & D-13 where a 2.5-foot thick integral pile cap/floor slab will remain. Areas where the floor slabs are removed will be backfilled with crushed stone (to elevation 171 feet) for drainage and covered with filter fabric prior to backfilling. The on-site septic system will be abandoned in-place in accordance with Title V (310 CMR 15.00). Additionally, all miscellaneous solid waste within the building such as site debris, concrete slabs, walkways, desks, various office equipment, mechanical equipment, ventilation, machinery, etc. plus all demolition materials will be removed from the Project Site and legally disposed, or recycled, off-site at a regulated processing or disposal facility.

After the demolition work is complete the work area will be graded as depicted on Sheet D-04, and finished by placing 4-inch thick layer of loam over the disturbed areas and seeded to establish grass cover the stabilize exposed soils.

4.3 Erosions and Sedimentation Control Measures

The following summary presents the mitigation measures that will be implemented to avoid and minimize impacts to adjacent BVW and Bank during demolition. Please refer to Project Plans (Sheet D-02 - Erosion Control & Construction Site Security Plan) for typical details of measures to protect wetlands and watercourses during and after demolition.

Construction Period

- Install straw wattles, and/or sediment fence at the limits of work as shown on the Project Plans to prevent transport of sediment to adjacent BVW and Bank. The sediment barrier will be inspected at a minimum of once per week and after all storm events of ½-inch or greater and repaired as needed. The barrier will be left in place until the area is permanently stabilized. Erosion controls will be replaced as necessary due to sediment build-up and degradation.
- Install and maintain a wheel wash/anti-tracking pad at the site entrance/exit to prevent tracking sediment off-site from truck tires.
- Stockpiles of soil excavated from within the foundation footprint will be covered with sheeting and encircled with waddles or straw bales, as depicted on Sheet D-05.
- Disturbed areas will be seeded and mulched to stabilize soils and prevent erosion as soon as possible after demolition is complete. In the event that this work is to take place outside of the growing season, erosion control blankets or mulch and tackifier will be placed over these areas to minimize erosion.
- For work in the Buffer Zone that will disturb soils, and additional disturbances are not anticipated, the area will be temporarily stabilized with mulch and tackifier or erosion control blankets, or other equivalent measures.
- Any area outside the limit of work that is disturbed during demolition will be restored to its original condition at no additional cost to the Town of Belmont.
- Specifications require the contractor to proceed as rapidly as possible, limiting the exposure time of disturbed soils to wind and precipitation.
- All equipment refueling, and any required minor maintenance will occur outside of the 100-foot buffer zone to BVW and Bank. Operators will be required to maintain a supply of SPEEDY DRY or other suitable oil absorbent material with the equipment for the clean-up of any accidental spills during refueling or maintenance operations.
- Periodic inspections of sedimentation and erosion control measures will occur during demolition by the engineer to ensure compliance with the Order of Post-Construction Measures.
- The sedimentation barrier will not be removed until the work area is stabilized.

5.0 Compliance with Wetland Protection Regulation Performance Standards

The Project is needed to prepare the Landfill for capping in accordance with the Solid Waste Regulations. The proposed incinerator demolition work will remove impervious cover from the site as well and the abandoned building and appurtenant facilities as depicted on the attached Project Plans. This will involve temporary disturbance of within BLSF and RFA and it was designed to protect the interests of the Act. Following is a review of how the proposed work complies with the applicable sections of the Wetland Regulations.

5.1 Bordering Land Subject to Flooding [310 CMR 10.57(4)(a)1. – 3.]

The relevant wetland protection regulations general performance standards for BLSF are as follows:

1. ***Compensatory storage shall be provided for all flood storage volume that will be lost as the result of a proposed project within Bordering Land Subject to Flooding, when in the judgment of the issuing authority said loss will cause an increase or will contribute incrementally to an increase in the horizontal extent and level of flood waters during peak flows.***

2. ***Work within Bordering Land Subject to Flooding, including that work required to provide the above-specified compensatory storage, shall not restrict flows so as to cause an increase in flood stage or velocity.***

3. ***Work in those portions of bordering land subject to flooding found to be significant to the protection of wildlife habitat shall not impair its capacity to provide important wildlife habitat functions. Except for work which would adversely affect vernal pool habitat, a project or projects on a single lot, for which Notice(s) of Intent is filed on or after November 1, 1987, that (cumulatively) alter(s) up to 10% or 5,000 square feet (whichever is less) of land in this resource area found to be significant to the protection of wildlife habitat, shall not be deemed to impair its capacity to provide important wildlife habitat functions. Additional alterations beyond the above threshold, or altering vernal pool habitat, may be permitted if they will have no adverse effects on wildlife habitat, as determined by procedures contained in 310 CMR 10.60.***

The Project will result in no net loss of BLSF, because work is limited to demolishing the incinerator which currently usurps flood storage volume. After the building is demolished the building pad will graded and seeded to stabilize exposed soils.

5.2 Riverfront Area [310 CMR 10.58(4)(a) – (d)]

The work in RFA associated with Beaver Brook and an un-named tributary is limited to building demolition and site work as described above. The performance standards associated with RFA are reviewed below.

310 CMR 10.58(4)(a) - Protection of Other Resource Areas. The work shall meet the performance standards for all resource areas within the riverfront area, as defined in 310 CMR 10.30 (coastal bank), 10.32 (salt marsh), 10.55 (Bordering Vegetated Wetland), and 10.57 (Land Subject to Flooding). When work in the riverfront area is also within the buffer zone to another resource area, the performance standards for the riverfront area, shall contribute to the protection of the interests of MGL c. 131, §40 in lieu of any additional requirements that might otherwise be imposed in the buffer zone within the riverfront area.

The only other resource area in which demolitions work is proposed is BLSF. The Project was designed to meet BLSF performance standards as explained above.

310 CMR 10.58(4)(b) - Protection of Rare Species. No project may be permitted within riverfront area which will have any adverse effect on specified habitat sites of rare wetland or upland vertebrate or invertebrate species, as identified by the procedures established under 310 CMR 10.59 or 10.37 or which will have any adverse effect on vernal pool habitat certified prior to the filing of the Notice of Intent.

This standard is not applicable. No portion of the proposed work is located within Estimated Habitat, or in Certified of Potential Vernal Pool (Attachment B, Figure 5).

310 CMR 10.58(4)(c) - Practicable and Substantially Equivalent Economic Alternatives. There must be no practicable and substantially equivalent economic alternative to the proposed project with less adverse effects on the interests identified in M.G.L. c. 131 §40.

This Project is needed to ready the site for future landfill capping in accordance with the Solid Waste Regulations. The only alternative is the "no build" which would retain the incinerator building and appurtenant facilities on-site. Therefore, this alternative was rejected from further consideration.

310 CMR 10.58(4)(d) - No Significant Adverse Impact. The work including proposed mitigation measures must have no significant adverse impact on the riverfront area to protect the interests in M.G.L. c. 131 §40. Within 200 foot Riverfront Areas, the issuing authority may allow the alteration of up to 5,000 s.f. or 10% of the Riverfront Area within the lot, whichever is greater (in part);

The Riverfront Area located on the Landfill Site is a previously disturbed area constructed for the incinerator and continued to be used by the Town for the temporary storage of public works generated soils and materials. Demolition will remove the abandoned incinerator and

impervious cover currently present in RFA. Following demolition, the work area will be graded, loam placed, and seed sown to stabilize exposed soils, thus leaving the RFA with improved vegetated cover than existing conditions.

a. At a minimum, a 100 foot wide area of undisturbed vegetation is provided (in part);

Not applicable. Portions of the existing structure and appurtenant facilities are located within the "inner" RFA thus disturbance in the first 100 feet of RFA is unavoidable. This zone will however, be seeded after demolition to establish a dense herbaceous cover and stabilize exposed soils.

b. Stormwater is managed according to the standards established by the Department;

Not applicable. Because the project does not require a new drainage system or new outfall, does not increase impervious cover (rather decreases impervious cover on-site) and does not increase the rate or volume of runoff from the site, thus the stormwater standards do not apply. The only applicable standard (No. 8 – Erosion and Sedimentation Control Plan) will be satisfied with the completion of a SWPPP and submission of CGP Notice of Intent to the USEPA in accordance with the NPDES CGP.

c. Proposed work does not impair the capacity of the Riverfront Area to provide important wildlife habitat functions. Work shall not result in an impairment of the capacity to provide vernal pool habitat identified by evidence from a competent source, but not yet certified (in part). For work within an undeveloped Riverfront Area which exceeds 5,000 sf, the issuing authority may require a wildlife habitat evaluation study under 310 CMR 10.60;

Project construction will not impair the capacity of the RFA to provide important wildlife habitat functions as compared to existing conditions.

d. Proposed work shall not impair groundwater or surface water quality by incorporating erosion and sedimentation controls and other measures to attenuate nonpoint source pollution.

The demolition of the incinerator and removal of abandoned materials from the site for off-site disposal will remove potential sources of surface and groundwater contamination from the site.

6.0 Conclusion

This NOI is submitted to; 1) seek concurrence that the wetland boundaries identified on and adjacent to the Project Site as depicted on attached Project Plans and Figures, and 2) secure approval to demolish the incinerator and appurtenant facilities located in and proximate to wetland resource areas. The information presented on the NOI Form, in attachments, and depicted on the accompanying Project Plans describes the site, proposed work, mitigation

measures and compliance with performance standards. The purpose of this Project is to demolish the existing incinerator building and ready the Landfill for capping in accordance with the Solid Waste Regulations.

The construction period BMPs described herein are proposed to protect the adjacent wetland resource areas of BVW, Bank and LUW associated with Beaver Brook and an un-named tributary thereto. After demolition, exposed soils will be cover by a 4-inch layer of loam and sewn with a seed mix to establish a dense herbaceous cover to stabilize exposed soils for the longer-term. The Applicant respectfully requests that the Belmont Conservation Commission issue an Order of Conditions approving the Project with appropriate conditions to protect the relevant interests identified in Act [M.G.L. c. 131 §40].

Attachment B

Figures

G:\Projects2\MA\Belmont\5311\MXD\usgs_24000.mxd

Data Source: Office of Geographic Information (MassGIS), Commonwealth of Massachusetts, Information Technology Division

Concord Avenue Landfill Belmont, Massachusetts

Epsilon ASSOCIATES INC.

Figure 1

USGS Locus Map

G:\Projects2\MA\Belmont\5311\MXD\aerial.mxd

Data Source: Office of Geographic Information (MassGIS), Commonwealth of Massachusetts, Information Technology Division

Belmont Landfill **Belmont, Massachusetts**

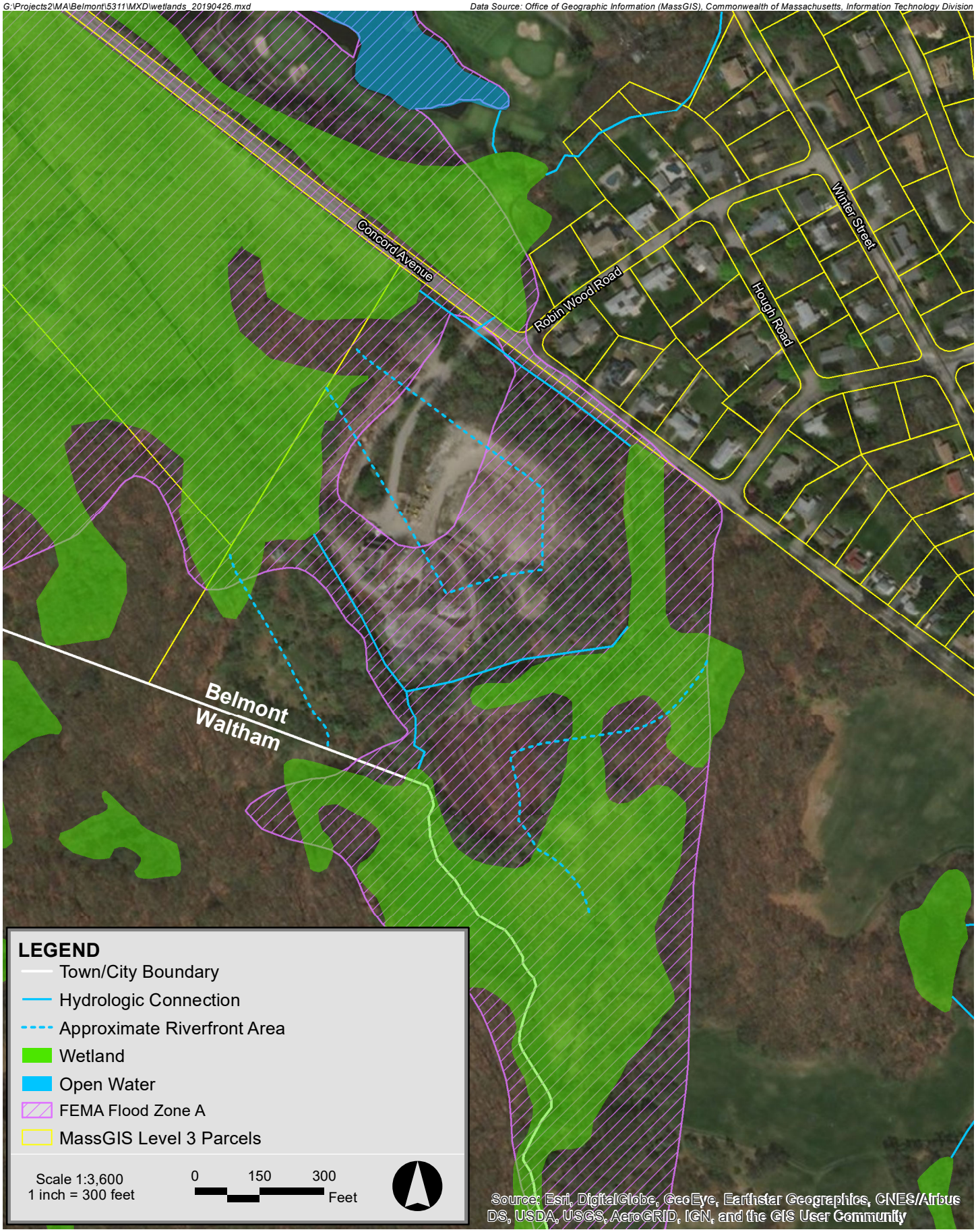
Epsilon ASSOCIATES INC.

Figure 2

Aerial Locus Map

G:\Projects2\MA\Belmont\5311\MXD\wetlands_20190426.mxd

Data Source: Office of Geographic Information (MassGIS), Commonwealth of Massachusetts, Information Technology Division



Concord Avenue Landfill Belmont, Massachusetts

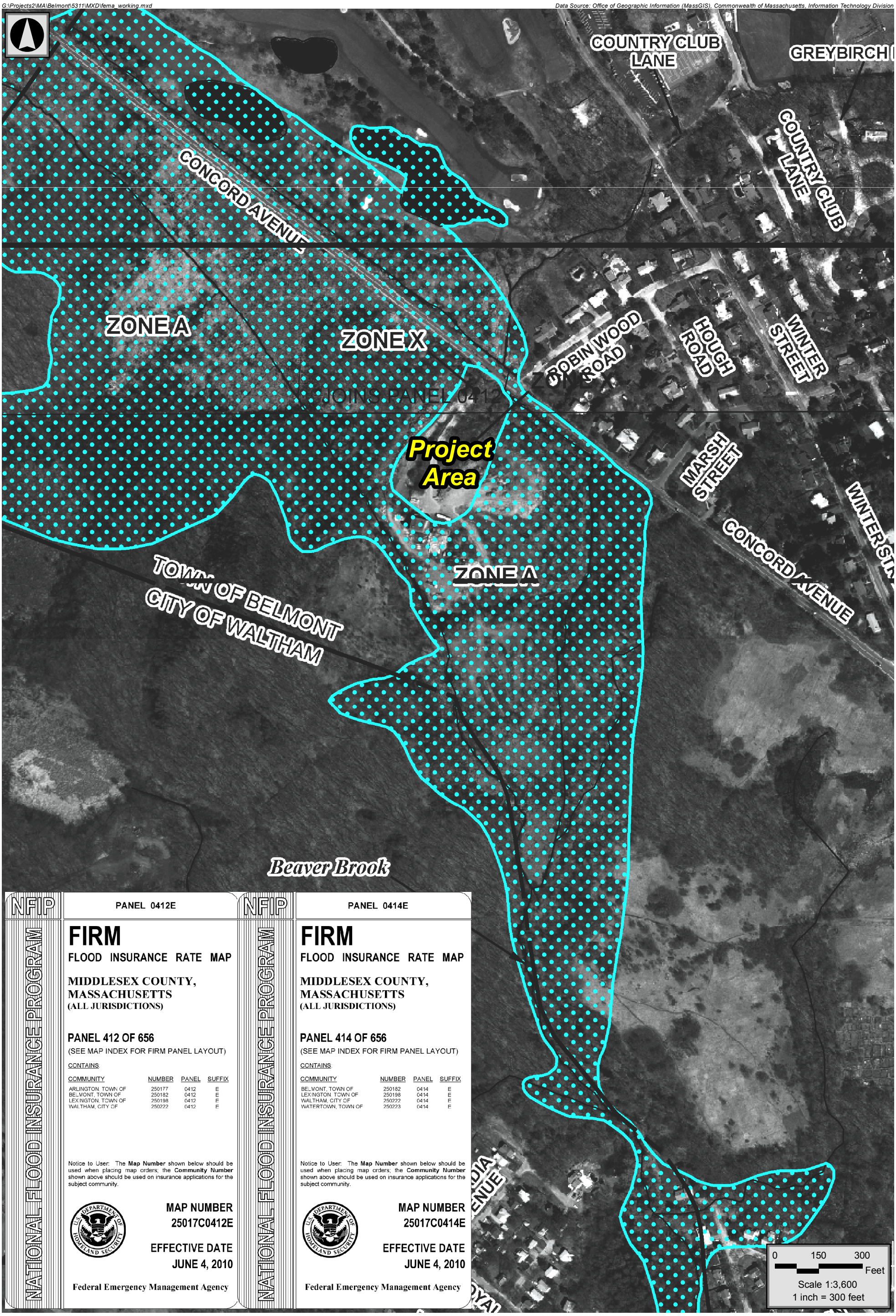
Epsilon ASSOCIATES INC.

Figure 3

2005 Massachusetts DEP Wetlands and FEMA Flood Zones (MassGIS)

G:\Projects2\MA\Belmont\5311\MXD\fema_working.mxd

Data Source: Office of Geographic Information (MassGIS), Commonwealth of Massachusetts, Information Technology Division



Concord Avenue Landfill Belmont, Massachusetts

Epsilon ASSOCIATES INC.

Figure 4
FEMA FIRM

G:\Projects2\MA\Belmont\5311\MXD\nhesp.mxd

Data Source: Office of Geographic Information (MassGIS), Commonwealth of Massachusetts, Information Technology Division

Belmont Landfill **Belmont, Massachusetts**

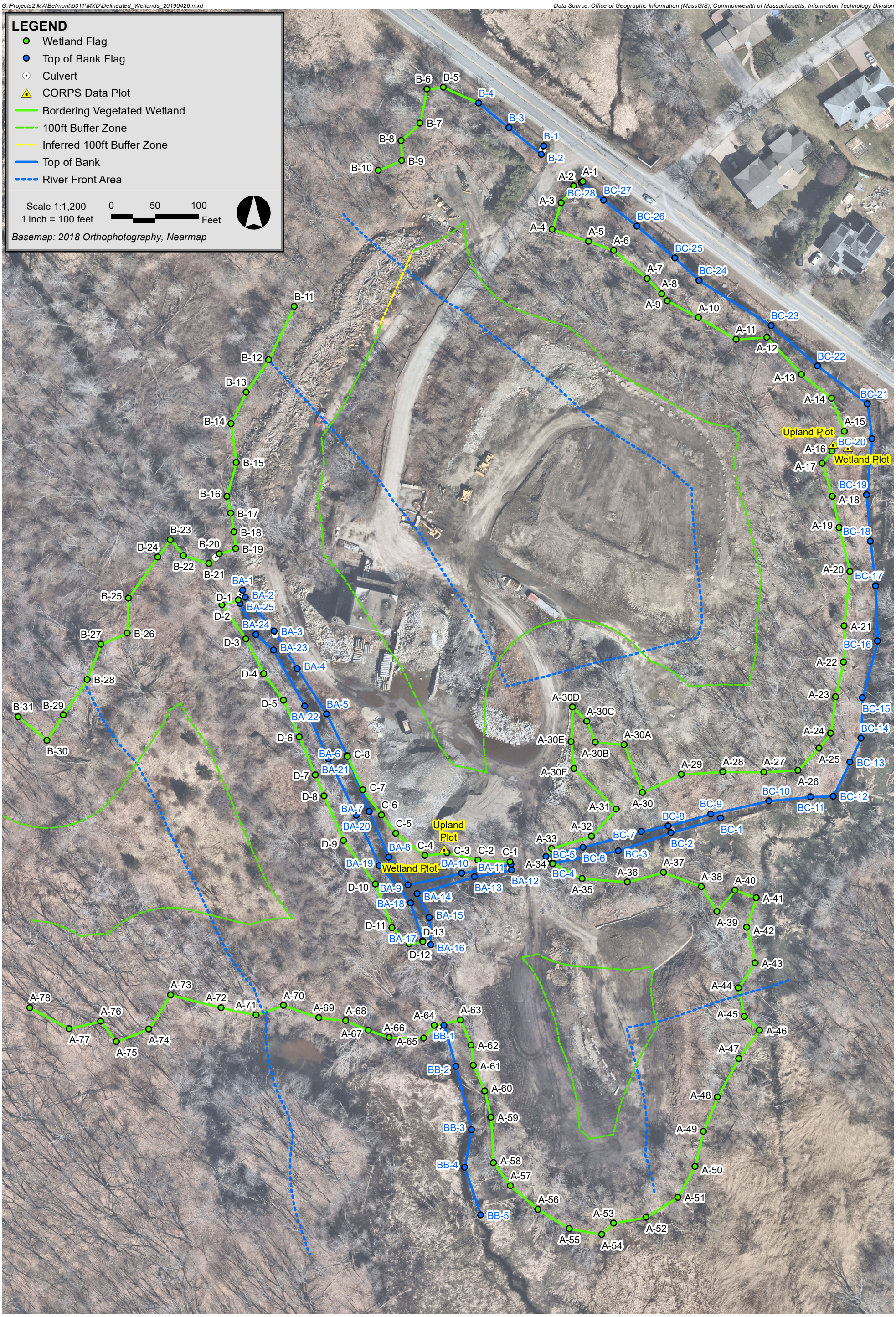
Epsilon ASSOCIATES INC.

Figure 5

NHESP Data

G:\Projects2\MA\Belmont\5311\MXD\Delineated_Wetlands_20190426.mxd

Data Source: Office of Geographic Information (MassGIS), Commonwealth of Massachusetts, Information Technology Division



Belmont Landfill Belmont, Massachusetts

Epsilon ASSOCIATES INC.

Figure 6

Field Delineated Wetlands

Attachment C

Site Photographs

Photo 1: View of wetland series A near flag A-37 and bank series BC near flag BC-2 facing east.

Photo 2: View of wetland series A near flag A-63.

Photo 3: View of wetland series B near flag B-23 facing west.

Photo 4: View of stream series BA near flag BA-6 facing northwest.

Photo 5: View of stream series BA near flag BA-10 facing west.

Photo 6: View of wetland series C near flag C-3 facing west.

Photo 7: View of wetland series D near flag D-10 facing south.

Photo 8: View of stream series BB near flag BB-3 facing north.

Photo 9: View of stream series BB facing south.

Photo 10: View of stream series BC near flag BC-3 facing east.

Photo 11: View of stream series BC near flag BC-16 facing south.

Attachment D

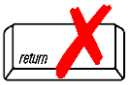
Filing Fee Information

Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

NOI Wetland Fee Transmittal Form

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

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



A. Applicant Information

1. Location of Project:

Fee Exempt

a. Street Address | b. City/Town

c. Check number | d. Fee amount

2. Applicant Mailing Address:

a. First Name | b. Last Name

c. Organization

d. Mailing Address

e. City/Town | f. State | g. Zip Code

h. Phone Number | i. Fax Number | j. Email Address

3. Property Owner (if different):

a. First Name | b. Last Name

c. Organization

d. Mailing Address

e. City/Town | f. State | g. Zip Code

h. Phone Number | i. Fax Number | j. Email Address

To calculate filing fees, refer to the category fee list and examples in the instructions for filling out WPA Form 3 (Notice of Intent).

B. Fees

Fee should be calculated using the following process & worksheet. ***Please see Instructions before filling out worksheet.***

Step 1/Type of Activity: Describe each type of activity that will occur in wetland resource area and buffer zone.

Step 2/Number of Activities: Identify the number of each type of activity.

Step 3/Individual Activity Fee: Identify each activity fee from the six project categories listed in the instructions.

Step 4/Subtotal Activity Fee: Multiply the number of activities (identified in Step 2) times the fee per category (identified in Step 3) to reach a subtotal fee amount. Note: If any of these activities are in a Riverfront Area in addition to another Resource Area or the Buffer Zone, the fee per activity should be multiplied by 1.5 and then added to the subtotal amount.

Step 5/Total Project Fee: Determine the total project fee by adding the subtotal amounts from Step 4.

Step 6/Fee Payments: To calculate the state share of the fee, divide the total fee in half and subtract $12.50. To calculate the city/town share of the fee, divide the total fee in half and add $12.50.

Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

NOI Wetland Fee Transmittal Form

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

B. Fees (continued)

Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee
Fee Exempt			

Step 5/Total Project Fee: _____

Step 6/Fee Payments:

Total Project Fee:	a. Total Fee from Step 5
State share of filing Fee:	b. 1/2 Total Fee **less $**12.50
City/Town share of filling Fee:	c. 1/2 Total Fee **plus** $12.50

C. Submittal Requirements

a.) Complete pages 1 and 2 and send with a check or money order for the state share of the fee, payable to the Commonwealth of Massachusetts.

Department of Environmental Protection
Box 4062
Boston, MA 02211

b.) **To the Conservation Commission:** Send the Notice of Intent or Abbreviated Notice of Intent; a **copy** of this form; and the city/town fee payment.

To MassDEP Regional Office (see Instructions): Send a copy of the Notice of Intent or Abbreviated Notice of Intent; a **copy** of this form; and a **copy** of the state fee payment. (E-filers of Notices of Intent may submit these electronically.)

Attachment E

Abutter Notification Information

Notification to Abutters

Under The Massachusetts Wetland Protection Act

In accordance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40, you are being notified of the following:

a) The name of the applicant is: **Town of Belmont – Office of Community Development**

b) The applicant has filed a **Notice of Intent ("NOI") with the Belmont Conservation Commission seeking an Order of Conditions to the demolish the inactive Belmont solid waste incinerator located on the landfill site located at 1034 Concord Avenue in Belmont, MA.**

c) Work described in this NOI is located within the following parcels in the Town of Hopedale: **Map 64, Lot 3**.

d) Copies of the NOI may be examined or obtained from:

Belmont Conservation Commission, 19 Moore Street, 2nd Floor, Belmont, MA. Please contact Mary Trudeau at mtrudeau@belmont-ma.gov beforehand to verify arrangements.

e) Information regarding the date, time and place of the public hearing may be obtained from the Belmont Conservation Commission (mtrudeau@belmont-ma.gov). It is anticipated that a hearing will be held the first week of June. However, please call the Conservation Commission office to confirm the meeting time and place.

NOTES:

- Notice of the public hearing, including date, time and place will be published at least five (5) days in advance in the Belmont Citizen-Herald.
- Notice of the public hearing, including date, time and place will be posted in the Town Hall not less than forty-eight hours in advance.
- You may also contact the Northeast Regional Office of the Department of Environmental Protection at (978) 694-3200

Affidavit of Service
Under The Massachusetts Wetlands Protection Act

I, **Megan Kearns**, hereby certify under the pains and penalties of perjury that on **May 22, 2019**, Epsilon Associates, Inc. gave notification to abutters and local Town Departments in compliance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40, the DEP Guide to Abutter Notification dated April 8, 1994 in connection with the following matter:

> A **Notice of Intent** application was filed under the Massachusetts Wetland Protection Act by the Town of Belmont on **May 22, 2019** for property located at **1034 Concord Avenue** in Belmont, MA.

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

_____ _____**May 22, 2019**_____

Megan Kearns DATE

Project Scientist

ID	OWNER	MAILING ADDRESSS	TOWN	STATE	ZIP	PROPERTY
59-6	GLYNN ROBERT J TRUST	319 MILL ST	BELMONT	MA	02478	319 MILL ST
68-12	LESSIN TE PAUL J	1085 CONCORD AVE	BELMONT	MA	02478	1085 CONCORD AVE
59-4	AROYIAN TR YEGHIA	337 MILL STREET	BELMONT	MA	02478	337 MILL ST
61-41	SADOWAY SANDRA L M	53 VERNON RD	BELMONT	MA	02178	53 VERNON RD
67-4	METROPOLITAN ST HOSPITAL		WALTHAM	MA	02453	1100R CONCORD AVE
68-33	GRIGNON TE WALTER E	1061 CONCORD AVE	BELMONT	MA	02478	1061 CONCORD AVE
61-37	JENKINS JR TE BRUCE G	76 LORIMER RD	BELMONT	MA	02478	76 LORIMER RD
61-45	RIZZO FAMILY TRUST OF JULY 10 2007	6 LORIMER RD	BELMONT	MA	02478	72 VERNON RD
70-17	CINAR TRS KAYA AND PEGGY PEKRAN CINAR	973 CONCORD AVE	BELMONT	MA	02478	973 CONCORD AVE
61-39	ETKIND TE MICHAEL	64 LORIMER RD	BELMONT	MA	02478	64 LORIMER RD
68-34	NOONAN TE RICHARD C	1053 CONCORD AVE	BELMONT	MA	02478	1053 CONCORD AVE
59-9	COSMAN TRS HELGA	872 CONCORD AVE	BELMONT	MA	02478	303 MILL ST
67-1	BELMONT COUNTRY CLUB	181 WINTER ST	BELMONT	MA	02478	181 WINTER ST
68-41	CHIAVETTA TE ANTHONY	10 WINTER ST	BELMONT	MA	02478	10 WINTER ST
61-29	LOVELUCK TE DAVID	145 BROOKSIDE AVE	BELMONT	MA	02478	145 BROOKSIDE AVE
64-3	BELMONT INHABITANTS	455 CONCORD AVE	BELMONT	MA	02478	1034 CONCORD AVE
65-8	WOO TRS EDWARD N & SHERYL L	5 AUDUBON LANE	BELMONT	MA	02478	5 AUDUBON LN
68-32	CORTINA TE VINCENT A	440 MARSH ST	BELMONT	MA	02478	440 MARSH ST
61-31	GROSS TE STEPHEN H	126 BROOKSIDE AVE	BELMONT	MA	02478	126 BROOKSIDE AVE
61-40	OTA TE H GREGORY	45 VERNON RD	BELMONT	MA	02478	45 VERNON RD
70-18	ROSENBLUM TE BRUCE D	965 CONCORD AVE	BELMONT	MA	02478	965 CONCORD AVE
61-33	CARUSO TR CHARLES	100 LORIMER RD	BELMONT	MA	02478	100 LORIMER RD
61-46	LAFFEY TE EUNICE E	66 VERNON RD	BELMONT	MA	02478	66 VERNON RD
68-40	MAURY-NOLAN BETH VERA	1015 CONCORD AVE	BELMONT	MA	02478	1015 CONCORD AVE
68-9	BELORIAN TE ARAM	56 ROBIN WOOD RD	BELMONT	MA	02478	56 ROBIN WOOD RD
59-5	GURIN TE VLADIMIR	329 MILL ST	BELMONT	MA	02478	329 MILL ST
59-7	CHENES LLC	872 CONCORD AVE	BELMONT	MA	02478	315 MILL ST
61-30-A	TOWN OF BELMONT	455 CONCORD AVE	BELMONT	MA	02478	157R BROOKSIDE AVE
61-34	SHUMSKY TE JACK	66 SHERMAN ST UNIT 322	CAMBRIDGE	MA	02140	94 LORIMER RD
61-32	TODARO TE SCOTT B	106 LORIMER RD	BELMONT	MA	02478	106 LORIMER RD
61-36	MUSER TE MARINO	82 LORIMER RD	BELMONT	MA	02478	82 LORIMER RD
61-38	HEGARTY TE GERALD J	70 LORIMER RD	BELMONT	MA	02478	70 LORIMER RD
61-30	LUCIO JT SERGE	157 BROOKSIDE AVE	BELMONT	MA	02478	157 BROOKSIDE AVE
61-35	TRODDEN TE EDWARD T	88 LORIMER RD	BELMONT	MA	02478	88 LORIMER RD
68-37	BRESLIN PATRICIA ANN	1035 CONCORD AVE	BELMONT	MA	02478	1035 CONCORD AVE
67-4-A	TOWN OF BELMONT	455 CONCORD AVE	BELMONT	MA	02478	1100 CONCORD AVE
68-10	POULSEN TE ANDREW J	1105 CONCORD AVE	BELMONT	MA	02478	1105 CONCORD AVE
70-16	SPEROS TE THEODORE	981 CONCORD AVE	BELMONT	MA	02478	981 CONCORD AVE
59-10	COSMAN TRS HELGA	872 CONCORD AVE	BELMONT	MA	02478	295 MILL ST
68-38	DARLING JT JOSEPH D	1029 CONCORD AVE	BELMONT	MA	02478	1029 CONCORD AVE
61-43	PINCUS TE MICHAEL D	65 VERNON RD	BELMONT	MA	02478	65 VERNON RD
68-11	WATERFALL JANE	1097 CONCORD AVE	BELMONT	MA	02478	1097 CONCORD AVE
68-36	KOEHLER TE ANGELA N	1041 CONCORD AVE	BELMONT	MA	02478	1041 CONCORD AVE
68-39	KERSHAW TE DAVID O	1021 CONCORD AVE	BELMONT	MA	02478	1021 CONCORD AVE
65-17	ROSENGARD PAMELA N	12 SUMMER ST	LEXINGTON	MA	02420	4 AUDUBON LN
68-35	TROPEANO TE ANTONIO S	944 DORCHESTER AVE U10	DORCHESTER	MA	02125	1047 CONCORD AVE
59-8	COSMAN TRS HELGA	872 CONCORD AVENUE	BELMONT	MA	02478	307 MILL ST
61-42	COLAVITO TE NICHOLAS	59 VERNON RD	BELMONT	MA	02478	59 VERNON RD
61-44	FILIPPOV TE ALEXANDER	74 VERNON RD	BELMONT	MA	02478	74 VERNON RD
68-13	GIANGREGORIO TE DAVID M	415 MARSH ST	BELMONT	MA	02478	415 MARSH ST

Attachment F

Data Forms

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Belmont Landfill City/County: Belmont Sampling Date: 10/23/2018

Applicant/Owner: Langdon Environmental LLC State: MA Sampling Point: UPL-C

Investigator(s): S. Bonilla, M. Kearns Section, Township, Range: _____

Landform (hillslope, terrace, etc.): _____ Local relief (concave, convex, none): _____

Slope (%): 3% Lat: _____ Long: _____ Datum: NAD83

Soil Map Unit Name: Udorthents, refuse substratum NWI classification: PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✓ No _____ (If no, explain in Remarks.)

Are Vegetation ✓, Soil ✓, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____	No _____	**Is the Sampled Area within a Wetland?** **Yes** _____ **No** ✓
Hydric Soil Present?	Yes _____	No _____	
Wetland Hydrology Present?	Yes _____	No _____	If yes, optional Wetland Site ID: _____

Remarks: (Explain alternative procedures here or in a separate report.)

The site is located at a landfill, with previously disturbed soils and fill material.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes _____	No ✓	Depth (inches): _____
Water Table Present?	Yes _____	No ✓	Depth (inches): _____
Saturation Present? (includes capillary fringe)	Yes _____	No ✓	Depth (inches): _____

Wetland Hydrology Present? **Yes** _____ **No** ✓

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: UPL-C

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1. Ailanthus altissima	50	Y	UPL
2. Acer negundo	15	Y	FAC
3.			
4.			
5.			
6.			
7.			
	65 = Total Cover		

Sapling/Shrub Stratum (Plot size: 15')			
1. Ailanthus altissima	20	Y	UPL
2. Acer negundo	20	Y	FAC
3. Rosa multiflora	10	Y	FACU
4.			
5.			
6.			
7.			
	50 = Total Cover		

Herb Stratum (Plot size: 5')			
1. Boehmeria cylindrica	35	Y	OBL
2. Solidago rugosa	15	Y	FAC
3. Chelidonium majus	5	N	UPL
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	55 = Total Cover		

Woody Vine Stratum (Plot size: 30')			
1.			
2.			
3.			
4.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)

Total Number of Dominant Species Across All Strata: 7 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 57% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	35	x 1 =	35
FACW species	0	x 2 =	0
FAC species	50	x 3 =	150
FACU species	10	x 4 =	40
UPL species	75	x 5 =	375
Column Totals:	170 (A)		600 (B)

Prevalence Index = B/A = 3.5

Hydrophytic Vegetation Indicators:

___ Rapid Test for Hydrophytic Vegetation

___ Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** _____ **No** ✓

Remarks: (Include photo numbers here or on a separate sheet.)

The dominance test shows that 57% of vegetation is hydrophytic; however, the prevalence index is greater than 3.

SOIL

Sampling Point: UPL-C

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox %	Type[1]	Loc[2]	Texture	Remarks
0-10"	10YR 2/2	100%					fine sandy loam	
10-18"	7.5YR 5/4	100%					coarse sand	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) (**LRR R, MLRA 149B**)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Dark Surface (S7) (**LRR K, L**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** ____ **No** ✓

Remarks:

Soil indicated fill material. No redox features or signs of saturation were observed.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Belmont Landfill City/County: Belmont Sampling Date: 10/23/2018

Applicant/Owner: Langdon Environmental LLC State: MA Sampling Point: WET-C

Investigator(s): S. Bonilla, M. Kearns Section, Township, Range: _____

Landform (hillslope, terrace, etc.): _____ Local relief (concave, convex, none): _____

Slope (%): 3% Lat: _____ Long: _____ Datum: NAD83

Soil Map Unit Name: Udorthents, refuse substratum NWI classification: PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✓ No ___ (If no, explain in Remarks.)

Are Vegetation ✓, Soil ✓, or Hydrology ✓ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ___

Are Vegetation ___, Soil ___, or Hydrology ___ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ✓	No ___	**Is the Sampled Area within a Wetland?** **Yes** ✓ **No** ___
Hydric Soil Present?	Yes ✓	No ___	
Wetland Hydrology Present?	Yes ✓	No ___	If yes, optional Wetland Site ID: _____

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ✓ Surface Water (A1)
- ___ High Water Table (A2)
- ✓ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ✓ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ✓	No ___	Depth (inches): 0"
Water Table Present?	Yes ___	No ✓	Depth (inches): ___
Saturation Present? (includes capillary fringe)	Yes ✓	No ___	Depth (inches): 0"

Wetland Hydrology Present? **Yes** ✓ **No** ___

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: WET-C

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	0 = Total Cover		

Sapling/Shrub Stratum (Plot size: 15')			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	0 = Total Cover		

Herb Stratum (Plot size: 5')			
1. Boehmeria cylindrica	10	Y	OBL
2. Phalaris arundinacea	95	Y	FACW
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	105 = Total Cover		

Woody Vine Stratum (Plot size: 30')			
1. Solanum dulcamara	5	Y	FAC
2.			
3.			
4.			
	5 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:
OBL species		x 1 =
FACW species		x 2 =
FAC species		x 3 =
FACU species		x 4 =
UPL species		x 5 =
Column Totals:	(A)	(B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

- ___ Rapid Test for Hydrophytic Vegetation
- ✓ Dominance Test is >50%
- ___ Prevalence Index is ≤3.0[1]
- ___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** ✓ **No** ___

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: WET-C

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox %	Type[1]	Loc[2]	Texture	Remarks
0-20"	10YR 2/1	100%						some organic/roots observed

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ✓ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) (**LRR R, MLRA 149B**)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Dark Surface (S7) (**LRR K, L**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** ✓ **No** ___

Remarks:

Attachment G

Project Plans

REVISIONS

Langdon Environmental LLC

25 East Main St. Southborough MA 01772
(617) 875-3693

Proj. Mgr: BH
Designed : BH
Drawn : JC
Checked :
Scale : AS NOTED
Date : DEC 2018

ENVIRONMENTAL MONITORING LOCATIONS

CONCORD AVE LANDFILL
BELMONT MA

Proj. No.

Dwg. No.

L-1

BELMONT INCINERATOR DEMOLITION

1130 CONCORD AVENUE, BELMONT, MA

DRAWING LIST

PREPARED FOR:

TOWN OF BELMONT
DPW WATER DIVISION
HOMER MUNICIPAL BUILDING
19 MOORE STREET, FIRST FLOOR
BELMONT, MA 02478

PREPARED BY:

CIVIL ENGINEER:

BRISTOL ENGINEERING ADVISORS, INC.
11 PLAYSTEAD ROAD, 1ST FLOOR
BOSTON, MA 02125

ASBESTOS ABATEMENT & HAZARDOUS MATERIALS:

AXIOM PARTNERS, INC.
ONE PLEASURE ISLAND ROAD - SUITE 2C
WAKEFIELD, MA 01880

PREPARED IN CONJUNCTION WITH:

LANGDON ENVIRONMENTAL, INC.
25 EAST MAIN STREET
SOUTHBOROUGH, MA 01772

SANBORN HEAD
ONE TECHNOLOGY PARK DRIVE
WESTFORD, MA 01886

CON. COMM.
PERMIT SET

BRISTOL ENGINEERING ADVISORS, INC.

COMMONWEALTH OF MASSACHUSETTS
TERRY A. TOMASSO
No. 42899
CIVIL
REGISTERED PROFESSIONAL ENGINEER

NO.	DESCRIPTION	DATE
	ISSUED FOR CONSERVATION COMMISSION APPROVAL	

REVISIONS

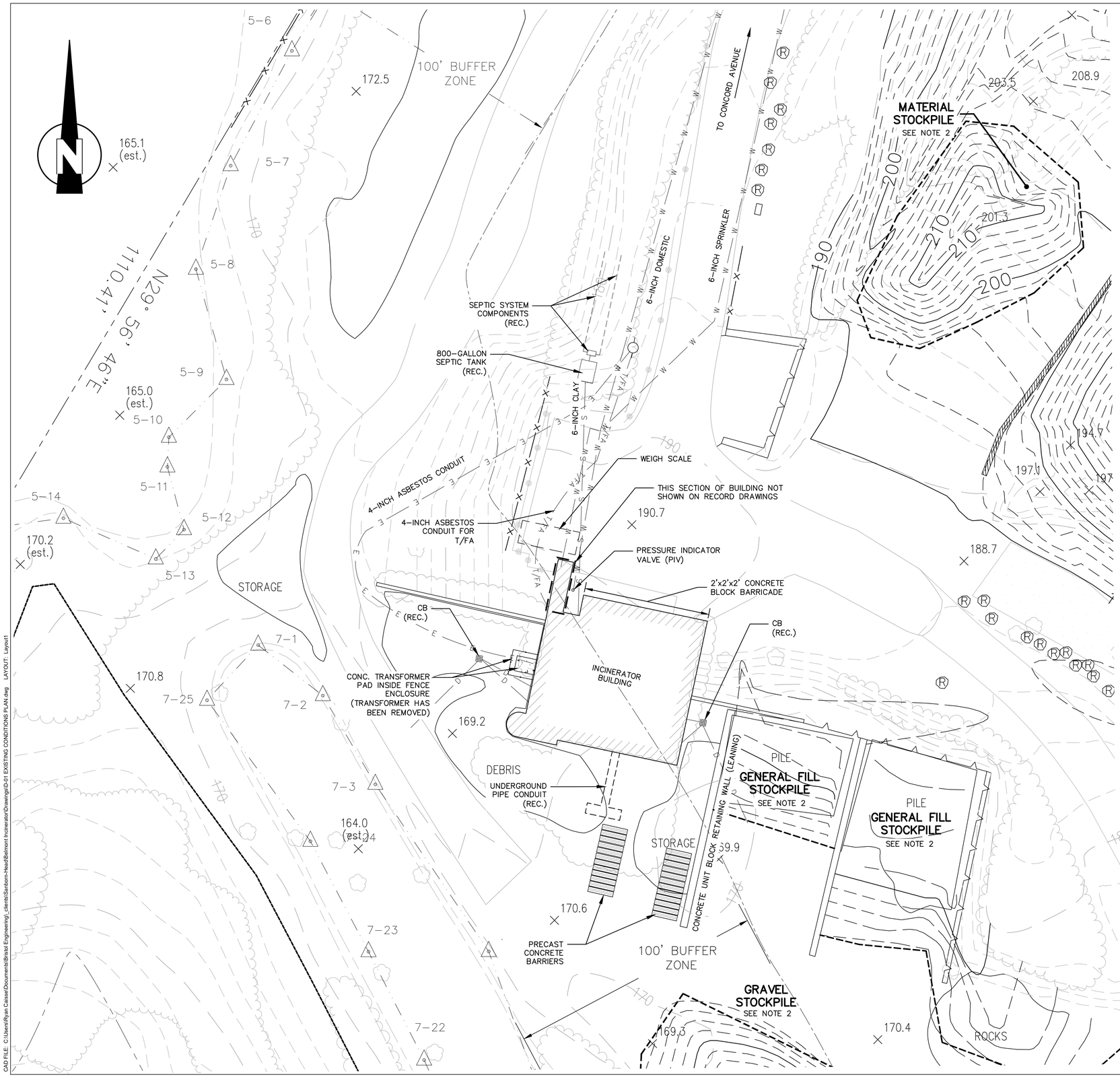
PROJECT NO. XX
DRAWN BY RDC
CHECKED BY TAT
FILE NAME

BELMONT INCINERATOR DEMOLITION

INCINERATOR DEMOLITION
BELMONT, MA
TITLE SHEET

SHEET
T-01

CAD FILE: C:\Users\Ryan Casse\Documents\Bristol Engineering_clients\Sanborn-Head\Belmont Incinerator\Drawings\T-01 TITLE SHEET.dwg LAYOUT: Layout1



LEGEND

	PROPERTY LINE
	WETLAND BOUNDARY
	100-FOOT WETLAND BUFFER
W W	RECORD WATER LINE
D D	RECORD DRAIN LINE
S S	RECORD SEPTIC LINE
E E	RECORD ELECTRIC LINE
T/FA	RECORD TEL/FIRE ALARM LINE
x x x	EXISTING CHAIN LINK FENCE
	EXISTING GUARD RAIL
	EXISTING INDEX CONTOUR
	EXISTING INTERMEDIATE CONTOUR
	EXISTING STOCKPILE INDEX CONTOUR
	EXISTING STOCKPILE INTERMEDIATE CONTOUR
	CATCH BASIN (RECORD – NOT FOUND IN THE FIELD)
	WETLAND FLAG
	EXISTING BOULDER
	EXISTING VEGETATION
(REC.)	RECORD INFORMATION BASED ON MAY 1958 MUNICIPAL INCINERATOR PLANS BY HAYDEN, HARDEN, AND BUCHANON (SEE NOTE 5)

GENERAL NOTES

1. PROPERTY LINES SHOWN BASED UPON PLANS AND ELECTRONIC FILES PROVIDED BY LANGDON ENVIRONMENTAL.
2. EXISTING CONDITIONS AND UTILITIES SHOWN HEREON WERE COMPILED FROM AN ON THE GROUND SURVEY CONDUCTED ON JULY 25, 2018 BY EXISTING GRADE, INC. AND FROM PLANS AND ELECTRONIC FILES PROVIDED BY THE TOWN OF BELMONT. DUE TO THE ACTIVE NATURE OF THE SITE, THE ELEVATIONS AND EXACT LOCATIONS OF THE STOCKPILES WILL HAVE CHANGED.
3. UTILITIES PRESENT AND LOCATIONS SHOWN ARE APPROXIMATE AND ARE TO BE CONFIRMED BY THE CONTRACTOR THROUGH TEST PITS. CONTRACTOR TO INCLUDE THE COST OF UTILITY TEST PITS TO EITHER CONFIRM OR DENY THE PRESENCE OF UTILITIES IN THEIR BID PRICE. THE CONTRACTOR BEARS FULL RESPONSIBILITY FOR CONFIRMING OR DENYING THE PRESENCE OF UTILITIES SHOWN ON THIS PLAN. BID PRICE IS BASED ON UTILITY LOCATIONS AS SHOWN ON THESE DRAWINGS.
4. ORIGIN OF ELEVATIONS IS NORTH AMERICAN VERTICAL DATUM 88 (NAVD 88), DETERMINED FROM A GPS SURVEY CONDUCTED BY EXISTING GRADE, INC. ON JULY 25, 2018.
5. 1958 RECORD INCINERATOR PLANS WERE PREVIOUSLY PREPARED BY OTHERS. THE TOWN ASSUMES NO RESPONSIBILITY, NOR MAKES ANY CLAIM, AS TO THE ACCURACY OR CLARITY OF THESE PLANS AND THE ACTUAL CONDITION OF THE BUILDING. THE CONTRACTOR SHALL INVESTIGATE AND ASSURE HIMSELF OF THE WORK TO BE PERFORMED, AND VERIFY THE EXISTING BUILDING CONDITIONS. THIS RECORD INFORMATION IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY IN AN EFFORT TO PROVIDE THE CONTRACTOR WITH AVAILABLE INFORMATION.
6. WETLAND RESOURCE AREAS DELINEATED BY EPSILON ASSOCIATES.
7. CONTRACTOR SHALL COORDINATE ACTIVITIES WITH ONGOING TOWN OPERATIONS.

BRISTOL ENGINEERING ADVISORS, INC.

COMMONWEALTH OF MASSACHUSETTS
TERRY A. TOCCHIO
No. 42859
CIVIL
REGISTERED PROFESSIONAL ENGINEER

NO.	DESCRIPTION	DATE
	ISSUED FOR CONSERVATION COMMISSION APPROVAL	

REVISIONS

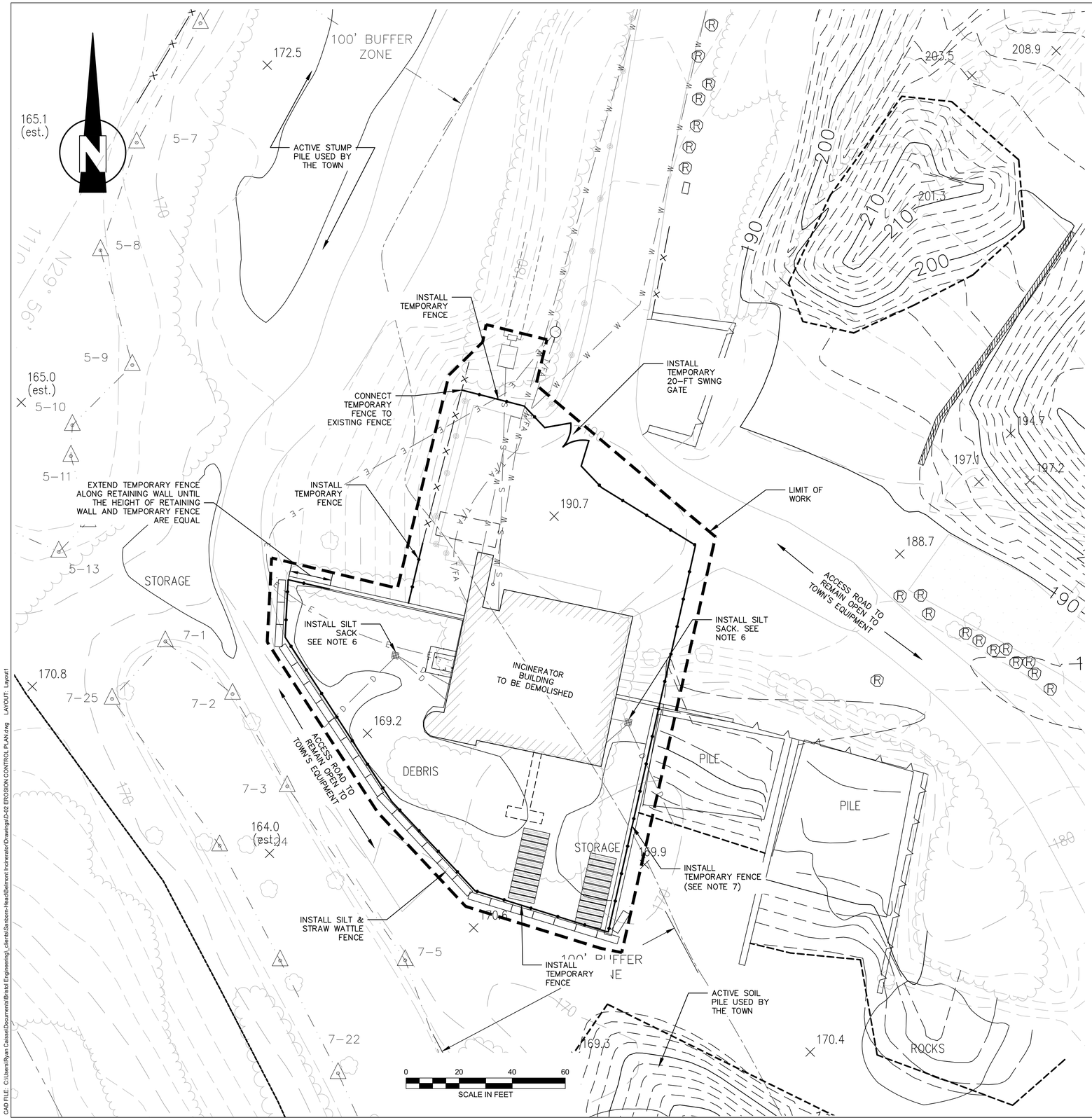
PROJECT NO. XX
DRAWN BY RDC
CHECKED BY TAT
FILE NAME

BELMONT INCINERATOR DEMOLITION

INCINERATOR DEMOLITION
BELMONT, MA
EXISTING CONDITIONS PLAN

SHEET
D-01

CAD FILE: C:\Users\Ryan Cassie\Documents\Bristol Engineering_clients\Sanborn-Head\Belmont Incinerator\Drawings\D-01 EXISTING CONDITIONS PLAN.dwg LAYOUT: Layout1

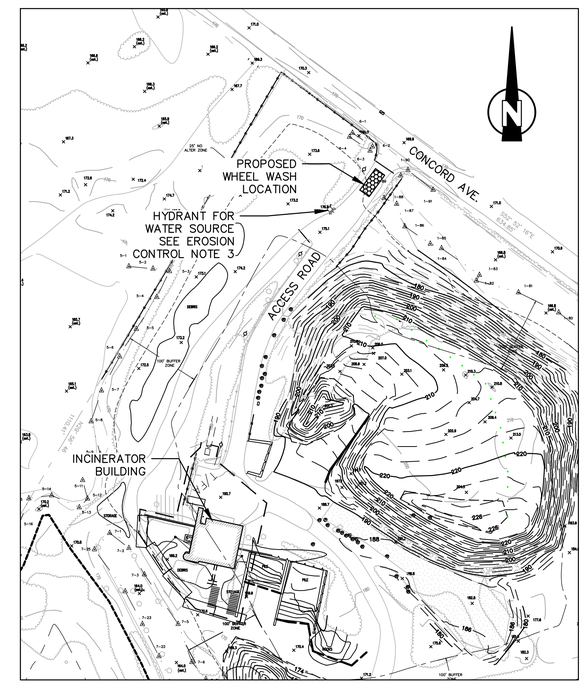


LEGEND

- PROPERTY LINE
- WETLAND BOUNDARY
- SILT AND STRAW WATTLE FENCE
- W — W RECORD WATER LINE
- D — D RECORD DRAIN LINE
- S — S RECORD SEPTIC LINE
- E — E RECORD ELECTRIC LINE
- x — x — x EXISTING CHAIN LINK FENCE
- TEMPORARY CONSTRUCTION FENCE
- LIMIT OF WORK
- CATCH BASIN
- WETLAND FLAG

EROSION CONTROL NOTES

1. THE PROPERTY IS OWNED BY THE TOWN OF BELMONT. ANY REFERENCES TO 'OWNER' SHALL MEAN THE TOWN OF BELMONT.
2. EROSION CONTROLS SHALL BE INSTALLED BY CONTRACTOR PRIOR TO SITE WORK AS SHOWN ON THIS SHEET. CONTRACTOR IS RESPONSIBLE FOR INSPECTION, MAINTENANCE, AND REPLACEMENT OF EROSION CONTROLS AT HIS OWN EXPENSE IF EROSION CONTROLS ARE DISTURBED OR OVERLOADED. SEE SPECIFICATIONS.
3. CONTRACTOR TO INSTALL & MAINTAIN A WHEEL WASH/ANTI-TRACKING PAD AT SITE ENTRANCE/EXIT TO PREVENT SEDIMENT MIGRATION OFF-SITE FROM TRUCK TIRES. CONTACT THE BELMONT WATER DEPARTMENT TO OBTAIN A TEMPORARY HYDRANT METER FOR DUST CONTROL AND WATER NEEDS.
4. ANY AREA OUTSIDE THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING THE JOB SITE AT THE END OF EACH WORK DAY. CONTRACTOR SHALL PROVIDE TEMPORARY FENCING AS REQUIRED TO KEEP THE PUBLIC FROM ENTERING THE DEMOLITION WORK AREA. SITE SECURITY IS THE CONTRACTOR'S RESPONSIBILITY.
6. CATCH BASIN IS NOT VISIBLE AND WAS NOT LOCATED IN THE FIELD. CONTRACTOR TO LOCATE AND PROVIDE PROTECTION. CATCH BASINS ARE SCHEDULED FOR REMOVAL. INSTALL SILT SACKS IF REMOVAL WILL NOT HAPPEN BEFORE BUILDING DEMOLITION.
7. TEMPORARY FENCE LOCATION SHOWN ON EAST SIDE OF SITE IS FOR REFERENCE ONLY. EXACT LOCATION OF FENCE SHALL BE DETERMINED BY THE CONTRACTOR. THE INTENT IS TO SECURE THE SITE FOR HEALTH AND SAFETY REASONS. FENCE LOCATION MAY BE MODIFIED AS NEEDED TO ACHIEVE INTENT. CONTRACTOR TO INSTALL ADDITIONAL GATES AS NEEDED TO FACILITATE WORK OF THIS CONTRACT. SEE SHEET D-03, DEMOLITION NOTE 18 FOR ADDITIONAL INFORMATION.



LOCUS PLAN FOR WHEEL WASH

BRISTOL ENGINEERING ADVISORS, INC.

COMMONWEALTH OF MASSACHUSETTS TERRY A. TOMASSO No. 42899 CIVIL REGISTERED PROFESSIONAL ENGINEER

NO.	DESCRIPTION	DATE
	REVISIONS	

ISSUED FOR CONSERVATION COMMISSION APPROVAL

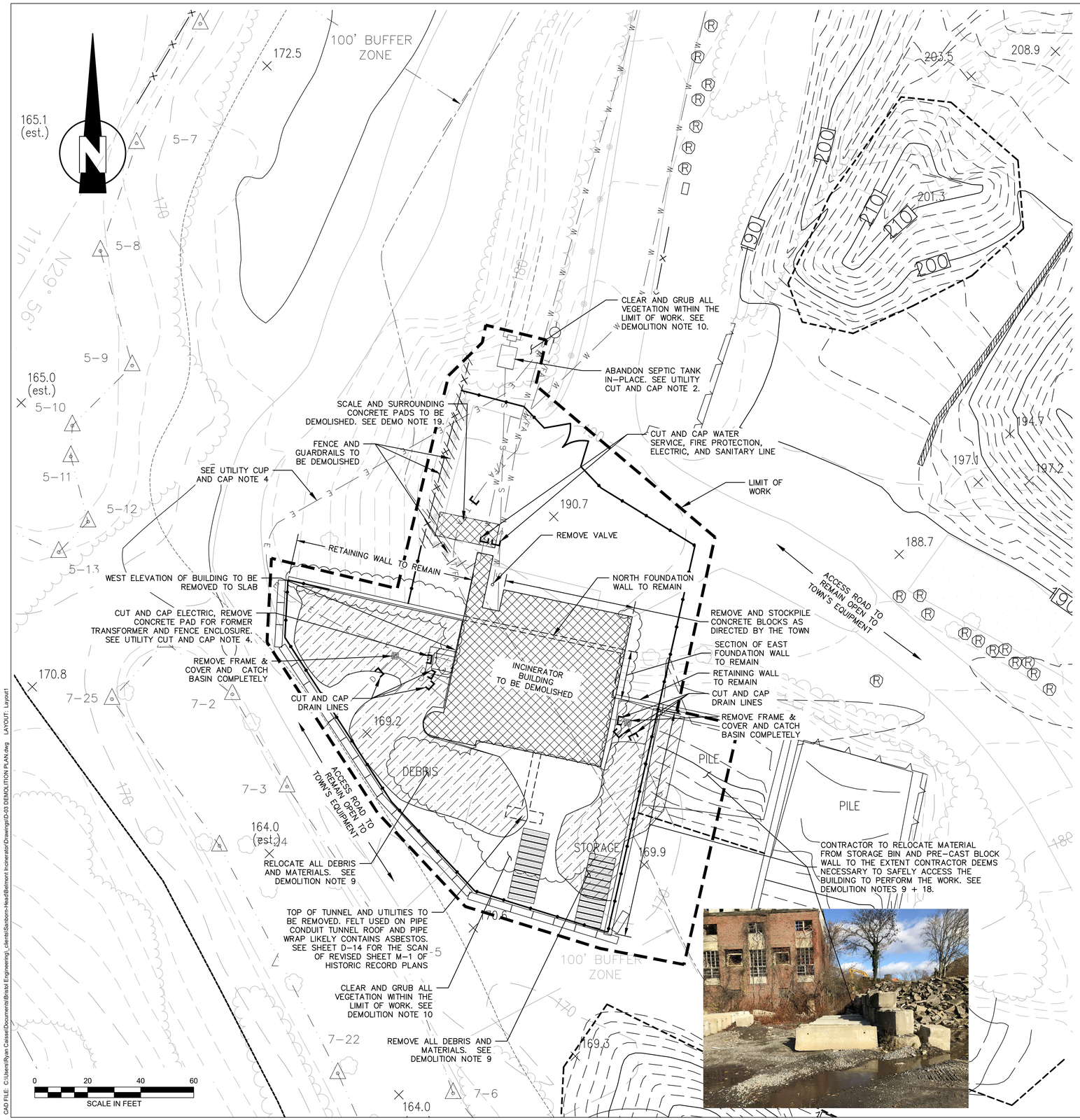
PROJECT NO.	XX
DRAWN BY	RDC
CHECKED BY	TAT
FILE NAME	

BELMONT INCINERATOR DEMOLITION

INCINERATOR DEMOLITION - BELMONT, MA
EROSION CONTROL & CONSTRUCTION SITE SECURITY PLAN

SHEET
D-02

CAD FILE: C:\Users\Ryan Cassel\Documents\Bristol Engineering_clients\Sunborn-Head\Belmont Incinerator\Drawings\D-02 EROSION CONTROL PLAN.dwg LAYOUT: Layout1



LEGEND

- PROPERTY LINE
- WETLAND BOUNDARY
- SILT AND STRAW WATTLE FENCE
- W — W — RECORD WATER LINE
- D — D — RECORD DRAIN LINE
- S — S — RECORD SEPTIC LINE
- E — E — RECORD ELECTRIC LINE
- x — x — x — EXISTING CHAIN LINK FENCE
- TEMPORARY CONSTRUCTION FENCE
- LIMIT OF WORK
- BUILDING AND COMPONENTS TO BE DEMOLISHED
- REMOVE ALL DEBRIS/MATERIALS TO COMPLETE WORK IN THIS CONTRACT. SEE DEMOLITION NOTE 9.

DEMOLITION NOTES

1. CONTRACTOR TO COORDINATE WITH THE TOWN OF BELMONT WATER DEPARTMENT AS REQUIRED TO FACILITATE THE COMPLETION OF THIS WORK.
2. THE PROPERTY IS OWNED BY THE TOWN OF BELMONT. ANY REFERENCES TO 'OWNER' SHALL MEAN THE TOWN OF BELMONT.
3. CONTRACTOR SHALL REMOVE ALL HAZARDOUS MATERIALS PRIOR TO BUILDING DEMOLITION. REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION FOR ASBESTOS ABATEMENT REQUIREMENTS AND OTHER HAZARDOUS MATERIALS REQUIRING ABATEMENT.
4. EROSION CONTROLS SHALL BE INSTALLED BY CONTRACTOR PRIOR TO START OF DEMOLITION AS SHOWN ON THIS SHEET. REFER TO DRAWING D-02 EROSION CONTROL PLAN.
5. CONTRACTOR SHALL MAKE ALL NECESSARY CONSTRUCTION NOTIFICATIONS INCLUDING DIGSAFE AND APPLY FOR AND OBTAIN ALL NECESSARY CONSTRUCTION PERMITS. THE CONTRACTOR SHALL ALSO PAY ALL FEES AND POST ALL BONDS ASSOCIATED WITH THE SAME.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A DEMOLITION PERMIT FROM THE TOWN OF BELMONT FROM THE OFFICE OF COMMUNITY DEVELOPMENT. THE CONTRACTOR IS RESPONSIBLE FOR PAYING ALL FEES ASSOCIATED WITH THE PERMIT. THE CONTRACTOR SHALL SUBMIT A COPY OF THE DEMOLITION PERMIT AND ANY OTHER RELATED PERMITS TO THE ENGINEER PRIOR TO INITIATING BUILDING DEMOLITION ACTIVITIES.
7. WHERE THE WORDS "REMOVE", "DEMOLISH", AND "R&D" (REMOVE & DISPOSE) ARE USED, IT SHALL MEAN TO REMOVE AND LEGALLY DISPOSE OR RECYCLE OFF-SITE AT A REGULATED PROCESSING OR DISPOSAL FACILITY. DEMOLITION SHALL BE COMPLETED IN ACCORDANCE WITH, BUT NOT LIMITED TO SPECIFICATION SECTION 02060 DEMOLITION. THE INTENT IS TO RECYCLE TO THE EXTENT PRACTICAL, ALL ASPHALT, BRICK, AND CONCRETE OFF-SITE. THE MAJORITY OF THE INTERIOR CMU AND CONCRETE WALLS ARE PAINTED. CONTRACTOR TO MANAGE PAINTED SURFACES IN ACCORDANCE WITH THE LEAD COATING PAINTS SECTION OUTLINED IN THE HAZARDOUS MATERIALS ABATEMENT SPECIFICATION. SUBMIT THE TOTAL AMOUNT OF DEBRIS REMOVED FROM THE SITE AND THE TOTAL AMOUNT RECYCLED, IN TONS. AT PROJECT COMPLETION.
8. CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND OFF-SITE DISPOSAL OF ALL INTERIOR AND EXTERIOR EQUIPMENT WITHIN AND ATTACHED TO THE INCINERATOR BUILDING. CONTRACTOR TO REMOVE AND DISPOSE ALL MISCELLANEOUS SOLID WASTE WITHIN THE BUILDING WHETHER INDICATED OR NOT. THIS INCLUDES ALL SITE DEBRIS, CONCRETE SLABS, WALKWAYS, DESKS, VARIOUS OFFICE EQUIPMENT, MECHANICAL EQUIPMENT, VENTILATION, MACHINERY, ETC. PRESENT AT THE TIME OF THE PRE-BID WALK THROUGH.
9. CONTRACTOR TO RELOCATE ALL INDICATED SOIL AND DEBRIS WITHIN THE LIMIT OF WORK TO A LOCATION IDENTIFIED BY THE TOWN (ON-SITE). COORDINATE THE LOCATION WITH THE TOWN. THIS INCLUDES ALL MATERIALS SURROUNDING THE BUILDING: INCLUDING BUT NOT LIMITED TO SOIL, PAVEMENT, STOCKPILES, CONCRETE BLOCKS IN FRONT OF THE BUILDING, PRECAST CONCRETE BARRIERS, GRANITE CURBING/SLABS, BOULDERS, CONCRETE DEBRIS, BRICKS, AND CREOSOTE TIMBERS. ALL SOLID WASTE ENCOUNTERED WITHIN THE LIMIT OF WORK SHALL BE LEGALLY DISPOSED OFF-SITE AT A LICENSED FACILITY.
10. CONTRACTOR SHALL CLEAR AND GRUB ALL VEGETATION WITHIN THE LIMIT OF WORK. ALL CUTTINGS AND CHIPPINGS SHALL BE DISPOSED OFF-SITE.
11. CONTRACTOR SHALL SUBMIT A PROJECT-SPECIFIC DETAILED ABATEMENT AND DEMOLITION PLAN LISTING THE SEQUENCE OF ABATEMENT AND DEMOLITION ACTIVITIES FOR REVIEW AND APPROVAL BY THE ENGINEER PRIOR TO STARTING WORK. THE PLAN SHALL BE PREPARED BY A PROFESSIONAL STRUCTURAL ENGINEER REGISTERED IN THE COMMONWEALTH OF MASSACHUSETTS OR A DEMOLITION PROFESSIONAL WITH AT LEAST 10 YEARS EXPERIENCE. THE PLAN SHALL DETAIL HOW THE CONTRACTOR WILL PROCEED WITH DEMOLITION OF INTERIOR WALLS IN A MANNER THAT ENSURES EXTERIOR FOUNDATION WALLS ARE SELF-SUPPORTING OR ARE BRACED BY THE CONTRACTOR TO RESIST LATERAL EARTH LOADS. THE PLAN SHALL INCLUDE DETAILS ON HOW THE CONTRACTOR WILL MAINTAIN A SECURE PERIMETER AT ALL TIMES THROUGHOUT ABATEMENT AND DEMOLITION WORK.
12. CONTRACTOR SHALL BE SOLEY RESPONSIBLE FOR JOB SITE SAFETY AND ALL CONSTRUCTION MEANS AND METHODS.
13. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL CONDITIONS IN THE FIELD AND REPORT DISCREPANCIES BETWEEN PLANS AND ACTUAL CONDITIONS TO THE ENGINEER.
14. DEMOLITION SHALL BE COMPLETED IN ACCORDANCE WITH, BUT NOT LIMITED TO SECTION 02060 DEMOLIITON.
15. BUILDING PERIMETER FOUNDATION WALLS SHALL BE REMOVED TO ELEVATIONS SHOWN ON SHEETS D-07 THROUGH D-09.
16. THE FLOOR SLABS SHALL BE REMOVED IN ALL AREAS WITH THE EXCEPTION OF THE AREAS SHOWN ON SHEET D-9 & D-13 WHERE A 2.5-FOOT THICK INTEGRAL PILE CAP/FLOOR SLAB IS SCHEDULED TO REMAIN. REFER TO SHEETS D-9 & D-13 WHERE THIS AREA IS TO BE FILLED WITH CRUSHED STONE (TO EL. 171) FOR DRAINAGE AND COVERED WITH FILTER FABRIC PRIOR TO BACKFILL.
17. ANY AREA OUTSIDE THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
18. REMOVE SOIL AND FILL BEHIND WALL AND REMOVE CONCRETE BLOCKS TO FACILITATE CONSTRUCTION. EXTENT OF REMOVAL TO BE DETERMINED BY CONTRACTOR. REPLACE CONCRETE BLOCKS AND FILL AT COMPLETION OF DEMOLITION.
19. THIS IS A PIT SCALE (±5-FT DEEP LIKELY) AND WILL REQUIRE FILLING AND COMPACTION. THE FOUNDATION FLOOR OF THE SCALE PIT SHALL BE PUNCTURED FOR DRAINAGE PRIOR TO FILLING.

UTILITY CUT AND CAP NOTES

1. CONTRACTOR SHALL PROCEED WITH UTILITY CUTTING AND CAPPING ACTIVITIES FOLLOWING ABATEMENT.
2. SANITARY LINE TO BE CUT AND CAPPED APPROXIMATELY 10-FEET OUTSIDE THE BUILDING. THE REMAINING COMPONENTS OF THE SEPTIC SYSTEM (DISTRIBUTION BOX, SEPTIC TANK, AND LEACHING FIELD) TO BE ABANDONED IN PLACE PER 310 CMR 15.354. SEPTIC TANK SHALL BE PUMPED BY A LICENSED SEPTAGE HAULER, ALL COMPONENTS THAT HOLD WATER MUST BE BROKEN SO LIQUID CANNOT COLLECT IN THE FUTURE AND ANY LARGE VOIDS SHALL BE FILLED WITH CLEAN FILL TO PREVENT CAVE-IN. UPON COMPLETION OF THIS WORK, CONTRACTOR TO FILE A 'CERTIFICATION OF ABANDONMENT OF A SUBSURFACE SEWERAGE SYSTEM' WITH THE BELMONT DEPARTMENT OF HEALTH.
3. WATER SERVICES PREVIOUSLY CUT AND CAPPED BY THE TOWN OF BELMONT WATER DEPARTMENT. CONTRACTOR IS RESPONSIBLE FOR OBTAINING SIGN-OFF FROM THE WATER DEPARTMENT FOR THE DEMOLITION PERMIT.
4. UNDERGROUND ELECTRIC AND TEL/FIRE ALARM SERVICES ARE NOT ACTIVE AT THE BUILDING. CONTRACTOR IS RESPONSIBLE FOR OBTAINING SIGN-OFF FROM THE BELMONT MUNICIPAL LIGHT DEPARTMENT FOR THE DEMOLITION PERMIT. CONTRACTOR TO CUT, CAP AND REMOVE UNDERGROUND ELECTRIC AND TEL/FIRE ALARM CONDUIT AS REQUIRED FOR THE WORK. HISTORIC PLANS INDICATE EXISTING ELECTRICAL CONDUIT IS TRANSITE ASBESTOS PIPE. CONTRACTOR SHALL COMPLY WITH MassDEP REQUIREMENTS FOR CUTTING, CAPPING, AND/OR REMOVING TRANSITE ASBESTOS CONDUIT.
5. DRAIN LINES SHALL BE CUT AND CAPPED AS SHOWN AT ALL CATCH BASIN INLETS & OUTLETS. TWO (2) CATCH BASINS SHALL BE REMOVED COMPLETELY INCLUDING FRAMES & COVERS.

BRISTOL ENGINEERING ADVISORS, INC.

COMMONWEALTH OF MASSACHUSETTS TERRY A. TOMASSO No. 42899 CIVIL REGISTERED PROFESSIONAL ENGINEER

NO.	DESCRIPTION	DATE
	REVISIONS	

ISSUED FOR CONSERVATION COMMISSION APPROVAL

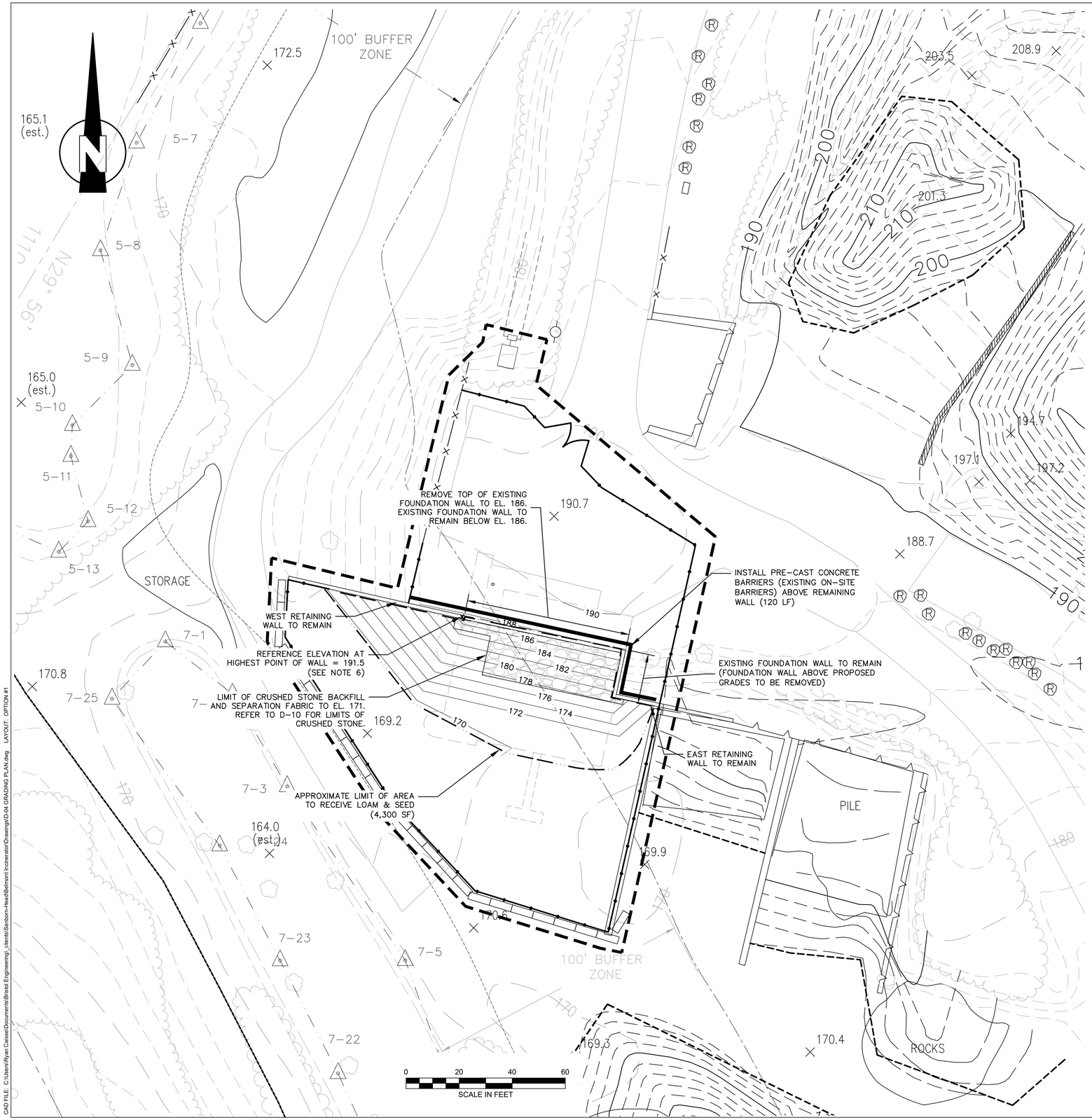
PROJECT NO. XX
DRAWN BY RDC
CHECKED BY TAT
FILE NAME

BELMONT INCINERATOR DEMOLITION

INCINERATOR DEMOLITION
BELMONT, MA
DEMOLITION PLAN

SHEET
D-03

CAD FILE: C:\Users\Ryan Cassel\Documents\Bristol Engineering_clients\Sanborn-Head\Belmont Incinerator\Drawings\D-03 DEMOLITION PLAN.dwg LAYOUT: Layout1

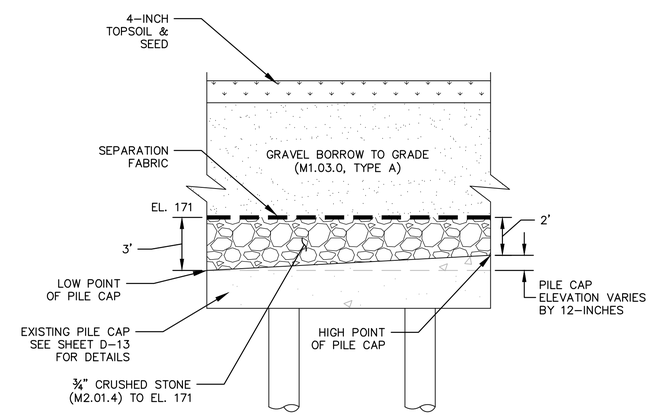


LEGEND

- PROPERTY LINE
- WETLAND BOUNDARY
- 100-FOOT WETLAND BUFFER ZONE
- SILT AND STRAW WATTLE FENCE
- EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- EXISTING STOCKPILE INDEX CONTOUR
- EXISTING STOCKPILE INTERMEDIATE CONTOUR
- 188 — PROPOSED CONTOUR
- EXISTING CHAIN LINK FENCE
- TEMPORARY CONSTRUCTION FENCE
- LIMIT OF WORK
- LIMIT OF LOAM AND SEED
- CATCH BASIN
- ¾" CRUSHED STONE (M2.01.4) COVERED WITH SEPARATION FABRIC

GRADING PLAN NOTES

1. CONTRACTOR SHALL REFER TO THE EARTHWORKS SPECIFICATION FOR DETAILS ON BACKFILL MATERIAL REQUIREMENTS. ALL DEMOLITION RUBBLE AND WASTE SHALL BE DISPOSED OFF-SITE AND SHALL NOT BE USED AS BACKFILL.
2. DESIGN SLOPE IS 2:1. CONTRACTOR SHALL STABILIZE SLOPES IN ACCORDANCE WITH EARTHWORK SPECIFICATION.
3. CONTRACTOR TO PLACE A MINIMUM 4-INCH TOPSOIL LAYER AND SEED IN ACCORDANCE WITH SPECIFICATIONS WITHIN LIMITS SHOWN.
4. TEMPORARY CONSTRUCTION FENCE TO BE REMOVED BY THE CONTRACTOR AT PROJECT COMPLETION.
5. SILT FENCE AND STRAW WATTLES TO BE REMOVED AT PROJECT COMPLETION BY TOWN AT PROJECT COMPLETION AND AFTER CERTIFICATE OF COMPLIANCE ISSUED BY BELMONT CONSERVATION COMMISSION.
6. REFERENCE ELEVATION PROVIDED AT HIGHEST POINT OF WEST RETAINING WALL. A CONVERSION OF -7.5 FEET WAS USED TO CONVERT ELEVATIONS REFERENCED IN THE 1958 HISTORIC DRAWINGS TO THE ELEVATIONS SHOWN ON THIS PLAN (NAVD 88).



CRUSHED STONE BACKFILL DETAIL

SCALE: N.T.S.

BRISTOL ENGINEERING ADVISORS, INC.

COMMONWEALTH OF MASSACHUSETTS TERRY A. TAYLOR No. 42899 CIVIL REGISTERED PROFESSIONAL ENGINEER

NO.	DESCRIPTION	DATE
	ISSUED FOR CONSERVATION COMMISSION APPROVAL	
	REVISIONS	

PROJECT NO. XX
DRAWN BY RDC
CHECKED BY TAT
FILE NAME

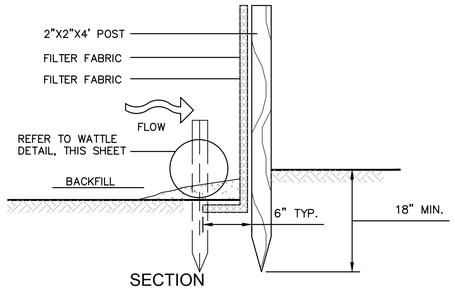
BELMONT INCINERATOR DEMOLITION

INCINERATOR DEMOLITION - BELMONT, MA

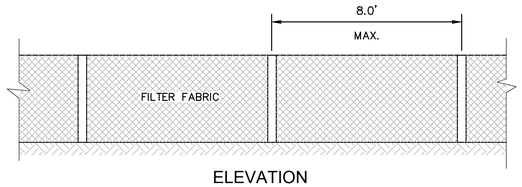
FINAL GRADING PLAN

SHEET D-04

CAD FILE: C:\Users\Ryan Caissie\Documents\Bristol Engineering_clients\Sanborn-Head\Belmont Incinerator\Drawings\D-04 GRADING PLAN.dwg LAYOUT: OPTION #1



SECTION



ELEVATION

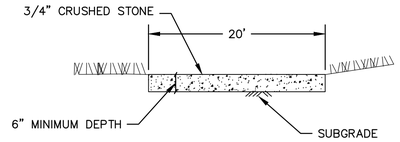
NOTES:

1. FABRIC TO BE ATTACHED TO STAKES WITH STAPLES.
2. FABRIC TO BE UV RESISTANT POLYPROPYLENE WITH A MINIMUM WEIGHT OF 2.5 OZ./S.Y.

SILT & STRAW WATTLE FENCE

SCALE: N.T.S.

SILT AND STRAW WATTLE FENCE INSTALLED BY OTHERS PRIOR TO THE WORK OF THIS CONTRACT. IN THE EVENT FENCE NEEDS REPAIR OR REPLACEMENT, SEE ABOVE DETAIL AND WATTLE DETAIL ON THIS SHEET.

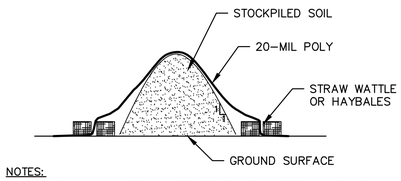


NOTES:

1. LENGTH OF PAD MUST BE A MINIMUM OF 50 FEET.
2. PADS MUST BE CONSTRUCTED AT THE SITE ENTRANCE/EXIT.
3. SLOPE PAD AWAY FROM PUBLIC SIDEWALK AND ROAD.

ANTI-TRACKING PAD DETAIL

SCALE: N.T.S.

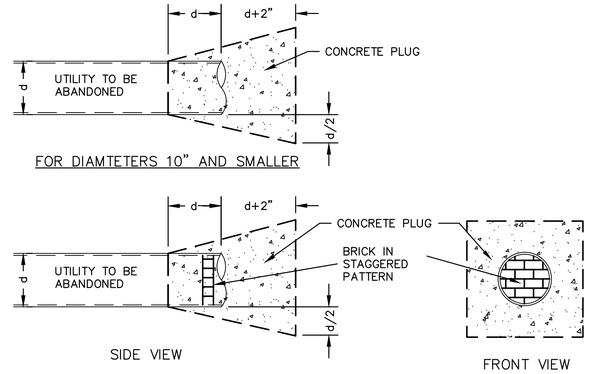


NOTES:

1. STOCKPILE SHALL BE NO GREATER THAT 12 FEET IN HEIGHT

SOIL STOCKPILE DETAIL

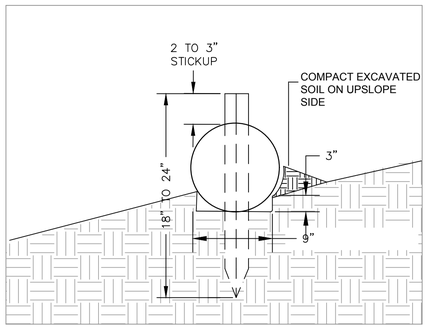
SCALE: N.T.S.



FOR DIAMTETERS 12" AND LARGER

UTILITY CUT AND CAP DETAIL

SCALE: N.T.S.



WATTLE NOTES:

1. WATTLE MATERIAL SHALL BE COMPOSED OF AGRICULTURAL STRAW AND BE WRAPPED IN TUBULAR UV-STABILIZED SYNTHETIC NET. THE PROPOSED WATTLE SHALL MEET THE SPECIFICATION OF THE SEDIMAX-SW12 WATTLE, AS MANUFACTURED BY NORTH AMERICAN GREEN OR APPROVED EQUAL.
2. THE NEETING WEIGHT SHALL BE 0.35 OZ/LF AND SHALL BE MADE FROM HDPE PHOTODEGRADABLE ORIENTED NET WITH CARBON BLACK FOR UV INHIBITION. THE NETTING SHALL HAVE A DIAMOND SHAPED APERTURE MEASURING 0.50"X0.50".
3. THE WATTLE ENDS SHALL BE SECURED WITH WIRE CLOSURES. SEDIMAX-SW12 SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. THE WATTLE SHALL BE INSTALLED BY EXCAVATING A 3" DEEP X 9" WIDE TRENCH ON THE SLOPE. EXCAVATED SOIL SHOULD BE PLACED UPSLOPE FROM THE ANCHOR TRENCH.THE WATTLE SHALL BE INSTALLED WITH 18" TO 24" WOODEN STAKES AT 4' ON CENTER.

WATTLE DETAIL

SCALE: N.T.S.

BRISTOL ENGINEERING ADVISORS, INC.

COMMONWEALTH OF MASSACHUSETTS
TERRY A. TOMASSO
No. 42899
CIVIL
REGISTERED PROFESSIONAL ENGINEER

NO.	DESCRIPTION	DATE
	REVISIONS	

PROJECT NO.	XX
DRAWN BY	RDC
CHECKED BY	TAT
FILE NAME	

BELMONT INCINERATOR DEMOLITION

INCINERATOR DEMOLITION
BELMONT, MA
DETAIL SHEET

SHEET
D-05

CAD FILE: C:\Users\Ryan Cassel\Documents\Bristol Engineering_clients\Sanborn-Head\Belmont Incinerator\Drawings\D-05 DETAIL SHEET.dwg LAYOUT: D-04

NORTH ELEVATION VIEW

EAST ELEVATION VIEW

VIEW OF SCALE AREA

SOUTH ELEVATION VIEW

WEST ELEVATION VIEW

VIEW OF DEBRIS ALONG WESTERN SIDE

NOTE:

1. CONTRACTOR TO RELOCATE ALL INDICATED SOIL AND DEBRIS WITHIN THE LIMIT OF WORK TO A LOCATION IDENTIFIED BY THE TOWN (ON-SITE). COORDINATE THE LOCATION WITH THE TOWN. THIS INCLUDES ALL MATERIALS SURROUNDING THE BUILDING: INCLUDING BUT NOT LIMITED TO SOIL, PAVEMENT, STOCKPILES, CONCRETE BLOCKS IN FRONT OF THE BUILDING, PRECAST CONCRETE BARRIERS, GRANITE CURBING/SLABS, BOULDERS, CONCRETE DEBRIS, BRICKS, AND CREOSOTE TIMBERS. ALL SOLID WASTE ENCOUNTERED WITHIN THE LIMIT OF WORK SHALL BE LEGALLY DISPOSED OFF-SITE AT A LICENSED FACILITY.

BRISTOL ENGINEERING ADVISORS, INC.

COMMONWEALTH OF MASSACHUSETTS
TERRY A. TOUSIGNANT
No. 42899
CIVIL
REGISTERED PROFESSIONAL ENGINEER

NO.	DESCRIPTION	DATE
	ISSUED FOR CONSERVATION COMMISSION APPROVAL	

REVISIONS

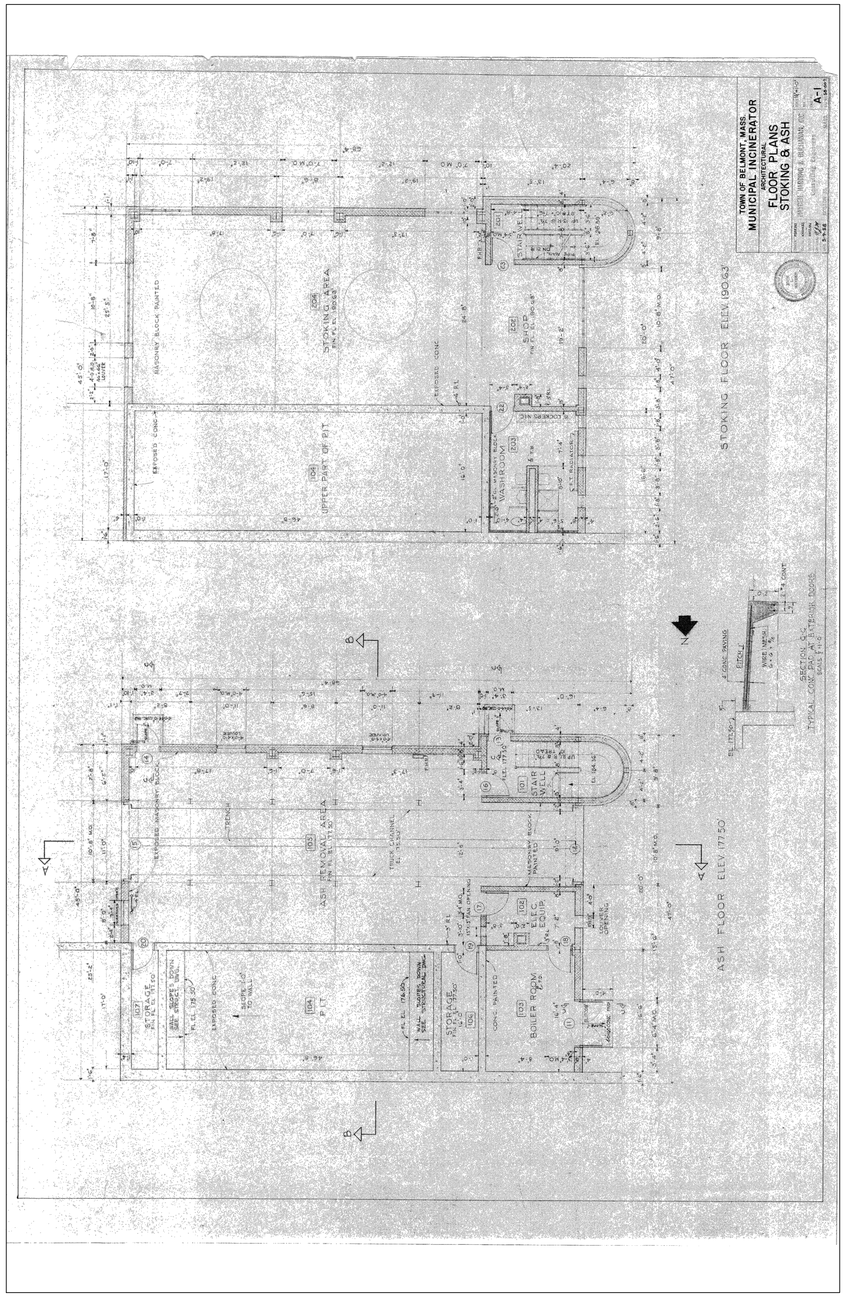
PROJECT NO. XX
DRAWN BY RDC
CHECKED BY TAT
FILE NAME

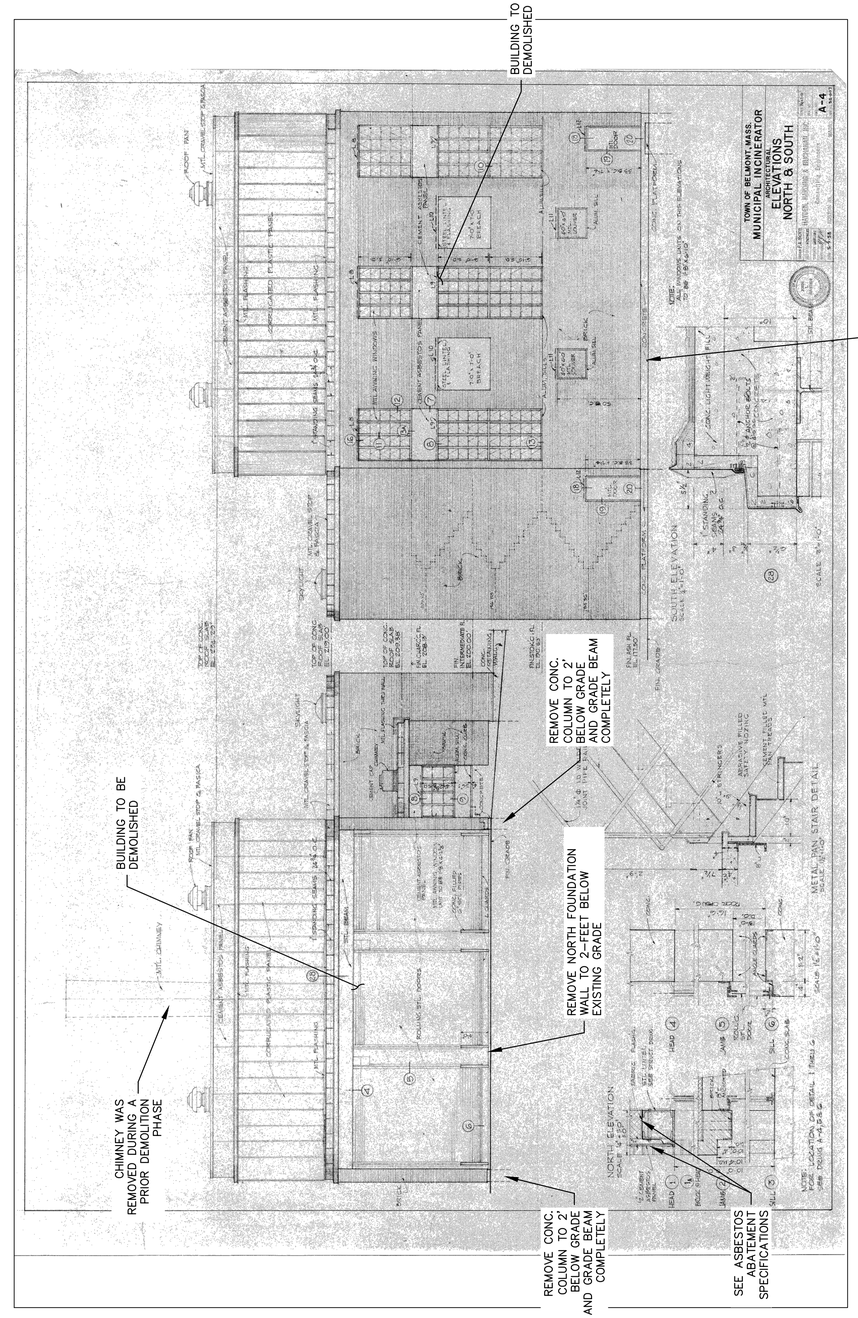
BELMONT INCINERATOR DEMOLITION

INCINERATOR DEMOLITION
BELMONT, MA
PHOTOGRAPHS

SHEET
D-06

CAD FILE: C:\Users\Ryan Caisse\Documents\Bristol Engineering_clients\Sanborn-Head\Belmont Incinerator\Drawings\D-06 PHOTO SHEET.dwg LAYOUT: D-05





SCAN OF HISTORIC INCINERATOR DRAWINGS

SCALE: NOT TO SCALE

NOTE:

Presented on this sheet are electronic scans of existing building plans. These plans were previously prepared by others and have been reduced in size for reproduction purposes. Engineer assumes no responsibility, nor makes any claim, as to the accuracy or clarity of these reproduced drawings and the actual condition of the building. The Contractor shall investigate and assure himself of the work to be performed, and verify the existing building conditions. These drawings are provided for informational purposes only, in an effort to provide the Contractor with available information. The Contractor shall, at his own risk, use these drawings for developing his bid. The original drawing is available for review at the Contractor's request.

GENERAL NOTES:

1. SOURCE OF HISTORIC INCINERATOR DRAWINGS IS FROM DESIGN PLANS ENTITLED "TOWN OF BELMONT, MASS. MUNICIPAL INCINERATOR" PREPARED BY HAYDEN, HARDEN, AND BUCHANON IN MAY 1958. SOURCE OF DATUM FOR ELEVATIONS SHOWN ON 1958 DRAWINGS IS UNKNOWN.
2. SEE SHEET D-03, DEMOLITION NOTE 11 REQUIRING CONTRACTOR TO SUBMIT ABATEMENT AND DEMOLITION PLAN TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO STARTING WORK.

BRISTOL ENGINEERING ADVISORS, INC.

COMMONWEALTH OF MASSACHUSETTS
TERRY A. TOLOSKO
No. 42899
CIVIL
REGISTERED PROFESSIONAL ENGINEER

ISSUED FOR CONSERVATION COMMISSION APPROVAL

NO.	DESCRIPTION	DATE
	REVISIONS	

PROJECT NO. XX
DRAWN BY RDC
CHECKED BY TAT
FILE NAME

BELMONT INCINERATOR DEMOLITION

INCINERATOR DEMOLITION
BELMONT, MA
SCANS OF HISTORIC PLANS #1

SHEET
D-07

CAD FILE: C:\Users\Ryan Caisse\Documents\Bristol Engineering_clients\Sanborn-Head\Belmont Incinerator\Drawings\SCANS.dwg LAYOUT: D-07