



# REQUEST FOR DETERMINATION OF APPLICABILITY

April 2021

Centennial Water Treatment Plant  
Pelham, MA

**Request for Determination of Applicability  
Centennial Water Treatment Plant  
Town of Pelham, Massachusetts**



Prepared by



**TATA & HOWARD**

April 2021



April 14, 2021

Mr. Dana MacDonald, Chair  
Pelham Conservation Commission  
351 Amherst Road  
Pelham, MA 01002

Subject: Request for Determination of Applicability  
Centennial Water Treatment Plant  
Pelham, Massachusetts  
T&H No. 5136

Dear Mr. MacDonald,

On behalf of the Amherst Public Works Department (DPW), we are pleased to submit seven (7) copies of the Request for Determination of Applicability (RDA) for construction of the Centennial Water Treatment Plant in Pelham, Massachusetts. The existing Centennial water treatment facility located on the project site was used to treat surface water from the Pelham Reservoir System, but is no longer operational due to its age, damaged equipment and electrical systems, and difficulty in providing optimal water treatment. The project includes demolition of the existing water treatment facility, and the proposed WTP will be located on the same property owned by the Town of Amherst, largely within the footprint of the existing building.

The Amherst DPW kindly requests a determination from the Pelham Conservation Commission as discussed in Section 2 – Narrative of the RDA. We trust that the documentation enclosed herein, including the proposed mitigation measures and alternatives analysis, is sufficient for the Commission's review of the proposed project.

As always, we are available should you have any questions or require additional information be provided. We appreciate your assistance with this important project.

Sincerely,

TATA & HOWARD, INC.

Ryan P. Neyland, P.E.  
Vice President

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Enter your transmittal number →

X287514  
Transmittal Number

Your unique Transmittal Number can be accessed online:  
<https://www.mass.gov/service-details/transmittal-form-number-for-massdep-permit-application-payment>

# Massachusetts Department of Environmental Protection Transmittal Form for Permit Application and Payment

1. Please type or print. A separate Transmittal Form must be completed for each permit application.

2. Make your check payable to the Commonwealth of Massachusetts and mail it with a copy of this form to: MassDEP, P.O. Box 4062, Boston, MA 02211.

3. Three copies of this form will be needed.

**Copy 1 - the original** must accompany your permit application. **Copy 2** must accompany your fee payment. **Copy 3** should be retained for your records

4. Both fee-paying and exempt applicants must mail a copy of this transmittal form to:

MassDEP  
P.O. Box 4062  
Boston, MA  
02211

\* **Note:**  
For BWSC Permits, enter the LSP.

## A. Permit Information

BRP WPA Form 1

Request for Determination of Applicability

1. Permit Code: 4-to-7-character code from permit instructions

2. Name of Permit Category

3. Type of Project or Activity

## B. Applicant Information – Firm or Individual

Amherst Public Works Department

1. Name of Firm - Or, if party needing this approval is an individual enter name below:

2. Last Name of Individual

3. First Name of Individual

4. MI

586 South Pleasant Street

5. Street Address

Amherst

MA

01002

413-259-3050

6. City/Town

7. State

8. Zip Code

9. Telephone #

10. Ext. #

Amy Rusiecki, P.E.

rusieckia@amherstma.gov

11. Contact Person

12. e-mail address

## C. Facility, Site or Individual Requiring Approval

Amherst Centennial Water Treatment Plant

1. Name of Facility, Site or Individual

86 Amherst Road

2. Street Address

Pelham

MA

01002

3. City/Town

4. State

5. Zip Code

6. Telephone #

7. Ext. #

8. DEP Facility Number (if Known)

9. Federal I.D. Number (if Known)

10. BWSC Tracking # (if Known)

## D. Application Prepared by (if different from Section B)\*

Tata & Howard, Inc.

1. Name of Firm or Individual

67 Forest Street

2. Address

Marlborough

MA

01752

508-232-6337

3. City/Town

4. State

5. Zip Code

6. Telephone #

7. Ext. #

Ryan Neyland, P.E.

8. Contact Person

9. LSP Number (BWSC Permits only)

## E. Permit - Project Coordination

1. Is this project subject to MEPA review?  yes  no  
If yes, enter the project's EOE file number - assigned when an Environmental Notification Form is submitted to the MEPA unit:

EOEA File Number

## F. Amount Due

DEP Use Only

Permit No:

Rec'd Date:

Reviewer:

### Special Provisions:

1.  Fee Exempt: city, town, county, or district of the Commonwealth; federally recognized Indian tribe housing authority; municipal housing authority; the MBTA; or state agency if fee is \$100 or less. *There are no fee exemptions for BWSC permits, regardless of applicant status.*
2.  Hardship Request - payment extensions according to 310 CMR 4.04(3)(c).
3.  Alternative Schedule Project (according to 310 CMR 4.05 and 4.10).
4.  Homeowner (according to 310 CMR 4.02).

Check Number

Dollar Amount

Date



# WPA Form 1- Request for Determination of Applicability

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

## A. General Information

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



1. Applicant:

Amherst Department of Public Works Name	rusieckia@amherstma.gov E-Mail Address
586 South Pleasant Street Mailing Address	
Amherst City/Town	MA State
	01002 Zip Code
413-259-3050 Phone Number	Fax Number (if applicable)

2. Representative (if any):

Tata & Howard, Inc. Firm	
Ryan Neyland, P.E. Contact Name	rneyland@tataandhoward.com E-Mail Address
67 Forest Street Mailing Address	
Marlborough City/Town	MA State
	01752 Zip Code
508-232-6337 Phone Number	508-449-9400 Fax Number (if applicable)

## B. Determinations

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

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

Town of Pelham  
Name of Municipality

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



# WPA Form 1- Request for Determination of Applicability

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

## C. Project Description

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

<u>86 Amherst Road</u> Street Address	<u>Pelham</u> City/Town
<u>3</u> Assessors Map/Plat Number	<u>18.A</u> Parcel/Lot Number

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

See attached Section 2 - Narrative

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

<u>Figure No. 1 - Locus Map (Appendix A)</u> Title	<u>April 2021</u> Date
<u>C-1 Existing Conditions Site Plan (Appendix B)</u> Title	<u>April 2021</u> Date
<u>C-2 Proposed Site Plan and Erosion Control Details (Appendix B)</u> Title	<u>April 2021</u> Date

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

See attached Section 2 - Narrative



## WPA Form 1- Request for Determination of Applicability

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

### C. Project Description (cont.)

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

See attached Section 2 - Narrative

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

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

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





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

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

**D. Signatures and Submittal Requirements**

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

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

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

Name and address of the property owner:

Town of Amherst  
Name  
586 South Pleasant Street  
Mailing Address  
Amherst  
City/Town  
MA  
State  
01002  
Zip Code

Signatures:

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

*[Handwritten Signature]*  
Signature of Applicant  
4/14/2021  
Date

*Ryan P. Neyland*  
Signature of Representative (if any)  
4/14/2021  
Date

## **SECTION 2 – PROJECT NARRATIVE**

### **2.1 WPA Form 1 – Section C.1a Project Description**

The Town of Amherst Public Works Department (DPW) proposes to construct a new 1.5 million gallon per day (mgd) capacity water treatment plant (WTP) located at 86 Amherst Road in Pelham, Massachusetts, to replace the existing water treatment facility. The existing Centennial Water Treatment Facility located on the project site was used to treat surface water from the Pelham Reservoir System, but is no longer operational due to its age, equipment condition, and difficulty in providing optimal water treatment for compliance with State and Federal drinking water regulations. The existing water treatment facility will be demolished, and the proposed WTP will be constructed in its place. The WTP site location is shown in Figure No. 1 attached in Appendix A.

The treatment process for the proposed Centennial WTP will include coagulation, rapid mixing, flocculation, dissolved air flotation (DAF) clarification, dual media filtration with sand and granular activated carbon (GAC), and chemical addition including chlorine for disinfection, ammonia for monochloramine formation for secondary disinfection in the distribution system, sodium hydroxide for pH adjustment and corrosion control, and fluoridation to prevent tooth decay. These processes are necessary to meet regulatory water quality standards set by the Massachusetts Department of Environmental Protection (MassDEP) and the goals established by the Amherst DPW to improve water quality delivered to its customers.

The Request for Determination of Applicability (RDA) summarizes the proposed construction of the new Centennial WTP including the site design and stormwater management controls, and the RDA identifies the mitigating measures that will be used to minimize environmental impacts during construction. It is anticipated that a Notice of Intent (NOI) filing will not be required for this project since the site does not include MassDEP identified wetland resource areas, certified vernal pools, or areas of critical concern. The project does include some work in previously disturbed areas within a 100-foot buffer zone of an existing stormwater drainage swale and subsequent wetland area which were flagged by the Amherst DPW and shown on Drawing C-1, Existing Conditions, and Drawing C-2, Proposed Site Plan and Erosion Control Details, in Appendix B. The Wetland Delineation Report summarizing the drainage swale area as prepared by the Amherst DPW is included in Appendix D.

### **2.2 WPA Form 1 – Section C.1b Area description**

The proposed WTP site is identified as Property ID No. 003.0/0000/0018.A under Lands of the Town of Amherst Deed Book 2203 and Page 242. The parcel is approximately 1.63 acres in size, including land designated as forestry and low density residential. The parcel is bound by private property to the east, Western Massachusetts Electric Company (Eversource) property to the west, and Amherst Road to the South. There is a stormwater drainage swale along the southwest corner of the parcel. The site does not include MassDEP identified wetland resource areas, certified vernal pools, or areas of critical concern, and is located outside the flood zone as identified by FEMA. The southwestern portion of the site does include an outfall of the drainage swale and subsequent wetland area which was flagged by the Amherst DPW staff during a site visit with the

Pelham Conservation Commission to be protected during construction. The work is not located within estimated or priority habitats of rare species identified by the National Heritage & Endangered Species Program (NHESP). The extent of work will be limited to only what is necessary to complete construction of the proposed WTP and appurtenances to minimize potential impact to the surrounding areas, and construction will be entirely within previously disturbed areas.

### **2.3 WPA Form 1 – Section C.2a Work description**

The work generally consists of the demolition of the existing water treatment facility, driveway, and associated site structures, and the construction of a new 98'x72' pre-engineered metal building WTP including interior masonry, water treatment and chemical feed equipment necessary to treat water for supplying the Amherst water distribution system, pumping equipment, bathrooms, laboratory, office/control room, storage room, electrical, heating, ventilation, and air conditioning (HVAC), plumbing, and instrumentation and controls. Site work consists of grading, asphalt driveway, chain link fence, stormwater controls, buried propane tank, ductile iron water mains and overflow piping, and a PVC sewer connection. Containment measures will be implemented for all liquid chemical storage areas within the proposed WTP according to guidelines established by the MassDEP. No clearing or disturbance of previously undisturbed land is proposed. Residuals from the treatment process will be discharged to the Amherst sewer collection system, and will no longer be stored and handled on the site.

The project will include conversion of the existing residuals handling basins on the project site to a sediment forebay and an infiltration basin for stormwater management. The stormwater controls will be sized to pretreat and infiltrate stormwater runoff from the new building, as well as a portion of the proposed driveway and grassed area upstream. Stormwater runoff from the remaining portion of the driveway will run off to the western portion of the site, which matches the current stormwater management at the existing site. The collection and infiltration of stormwater in the proposed sediment forebay and infiltration basin will offset the modified impervious area and improve the stormwater management on the project site. The peak discharge rate from the site will be less post-development than it was pre-development.

### **2.4 Mitigation**

The Town of Amherst intends to minimize the amount of disturbance necessary to construct the proposed WTP and maintain as much of the natural vegetation as possible. Stormwater runoff from the building roof and part of the paved driveway will be directed to the stormwater sediment forebay and infiltration basin, so that the post-development stormwater discharge rate from the site will be less than the pre-development stormwater discharge rate. Erosion controls will be installed to protect the stormwater drainage swale and subsequent wetland area as shown on Drawing C-2, Proposed Site Plan and Erosion Control Details, in Appendix B. The erosion controls will be maintained for the duration of construction.

## 2.5 Alternatives Analysis

Alternatives were evaluated with respect to cost, ease of implementation, environmental impacts, and ability to meet future projected demands and water quality regulations. After evaluating the alternatives, the Amherst DPW is proposing to replace the Centennial WTP at the existing site. The alternate options identified include no action and alternate location.

The existing treatment facility is no longer operational due to its age, damaged equipment and electrical systems, and difficulty in providing optimal water treatment. If no action is taken, the Amherst DPW will not be able to utilize the permitted surface water source as part of its water supply which may lead to a supply deficit.

The project includes constructing a WTP building in the approximate same location as the existing building. Installing a new building elsewhere on the parcel would cause more site disturbance, and the parcel owned by the Town of Amherst is unable to accommodate a second building of this size. The location of the existing building, which is no longer a functioning treatment facility, also minimizes the disturbance of previously undeveloped areas. Based on the property layout, the proposed location of the WTP is the most practical location.

## 2.6 Conclusion

The proposed environmental disturbances will largely be temporary in nature. Construction will result in minor modifications to the impervious areas, mainly associated with the paved driveway around the proposed WTP. Erosion controls will protect the drainage swale and the area north of the drainage swale identified by the flagged wetland points by the Amherst DPW. The addition of stormwater controls, including the sediment forebay and infiltration basin, will control the stormwater discharge rates and improve the quality of stormwater runoff from the site. The work will occur within an existing site that is currently operated and maintained by the Amherst DPW. It is in the DPW's interest to protect the site during construction activities since the source and facilities will continue to be operated and maintained following construction for water utility purposes. No negative impacts to the drainage swale and subsequent wetland area to the north of the swale are anticipated as a result of this project.

# Appendix A



**Legend**

 Pelham Parcel 003.0\_0000\_0018.A

Copyright:© 2013 National Geographic Society, i-cubed



Date: April 2021  
Approximate Scale: 1" = 500'

Locus Map  
Amherst Centennial Water Treatment Plant

86 Amherst Road  
Pelham, Massachusetts

Figure No.  
1



# Appendix B

MATCHLINE A SEE THIS SHEET

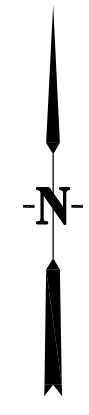
PROPERTY ID: 003.0\_0000\_0020.0  
N/F LANDS OF WESTERN MASS ELECTRIC

SUBJECT PARCEL  
PROPERTY ID: 003D\_0000\_0018.A  
LANDS OF THE TOWN OF AMHERST  
DEED BOOK 2203 AT PAGE 242  
SURVEYED AREA  
1.60 ACRES±

PROPERTY ID: 003.0\_0000\_0017.0  
N/F LANDS OF MICHAEL BEAUPRE

EXISTING  
RAW WATER  
PUMP  
STATION

MATCHLINE A SEE THIS SHEET



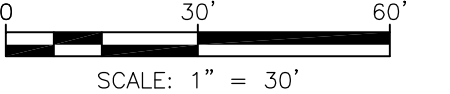
### LEGEND

EXISTING	DESCRIPTION	PROPOSED
W	WATER MAIN	W
X	GATE VALVE	X
W	BUTTERFLY VALVE	W
W	REDUCER	W
W	SOLID SLEEVE	W
W	TRANSITION COUPLING	W
W	CAP	W
W	FIRE HYDRANT	W
W	WATER SERVICE	W
W	ZONE 1	W
W	SEWER MANHOLE	S
W	SEWER LINE	S
W	SEWER FORCE MAIN	FM
W	DRAIN MANHOLE	DMH
W	CATCH BASIN	CB
SD	STORM DRAIN	SD
D	DRAIN LINE	D
D	CLEANOUT	D
D	RIP RAP	RIP RAP
D	DRAINAGE PIPE W/ FLARED END	D
UGE	ELEC. UNDERGROUND	UGE
C	ELEC. MANHOLE	C
OHE	ELEC. OH. WIRE	OHE
DB	DIRECT BURIED CONDUIT	DB
CE	STORMWATER FLOW DIRECTION	CE
U	CONCRETE ENCASED CONDUIT	U
U	UTILITY POLE	U
G	GUY WIRE	G
L	LIGHT	L
G	GAS LINE	NG
G	GAS VALVE	NG
RW	RAW WATER LINE	RW
OF	OVERFLOW PIPE	OF
RD	RESIDUALS/DRAIN	RD
O2	OXYGEN LINE	O2
AIR	AIR LINE	AIR
T	TREE LINE	T
T	TREE	T
S	SHRUB	S
R	ROCK	R
W	WETLANDS	W
W	WETLAND FLAG	W
W	WETLAND BUFFER	W
W	EDGE OF WATER	W
W	100 YEAR FEMA FLOOD ZONE	W
W	SILTATION FENCE	W
W	SHEETING	W
W	LIMIT OF WORK	W
W	5' CONTOUR	W
W	1' CONTOUR	W
W	SPOT ELEVATION	W
B-1	BORING/PROBE	B-1
PT-1	TEST PIT	PT-1
M	PERC TEST	M
M	MONITORING WELL	M
P	PIEZOMETER	P
S	SURVEY MARKER	S
B	BENCH MARK	B
T	TRAVERSE STATION	T
ST	STATIONING	ST
CL	CHAIN LINK FENCE	CL
SW	STONE WALL	SW
GR	GUARD RAIL	GR
B	BOLLARD	B
SP	SIGN POST	SP
TR	TRAIL	TR
CD	CHECK DAM	CD
BC	BITUMINOUS CONCRETE	BC
GA	GRAVEL AREA	GA
CO	CONCRETE	CO
CB	CAPE COD BERM	CB
GR	GRASS	GR

PROPOSED	DESCRIPTION
W	WATER MAIN
X	GATE VALVE
W	BUTTERFLY VALVE
W	REDUCER
W	SOLID SLEEVE
W	TRANSITION COUPLING
W	CAP
W	FIRE HYDRANT
W	WATER SERVICE
W	ZONE 1
S	SEWER MANHOLE
S	SEWER LINE
FM	SEWER FORCE MAIN
DMH	DRAIN MANHOLE
CB	CATCH BASIN
SD	STORM DRAIN
D	DRAIN LINE
D	CLEANOUT
RIP RAP	RIP RAP
D	DRAINAGE PIPE W/ FLARED END
UGE	ELEC. UNDERGROUND
C	ELEC. MANHOLE
OHE	ELEC. OH. WIRE
DB	DIRECT BURIED CONDUIT
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U	UTILITY POLE
G	GUY WIRE
L	LIGHT
NG	GAS LINE
NG	GAS VALVE
RW	RAW WATER LINE
OF	OVERFLOW PIPE
RD	RESIDUALS/DRAIN
O2	OXYGEN LINE
AIR	AIR LINE
T	TREE LINE
T	TREE
S	SHRUB
R	ROCK
W	WETLANDS
W	WETLAND FLAG
W	WETLAND BUFFER
W	EDGE OF WATER
W	100 YEAR FEMA FLOOD ZONE
W	SILTATION FENCE
W	SHEETING
W	LIMIT OF WORK
W	5' CONTOUR
W	1' CONTOUR
W	SPOT ELEVATION
B-1	BORING/PROBE
PT-1	TEST PIT
M	PERC TEST
M	MONITORING WELL
P	PIEZOMETER
S	SURVEY MARKER
B	BENCH MARK
T	TRAVERSE STATION
ST	STATIONING
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SW	STONE WALL
GR	GUARD RAIL
B	BOLLARD
SP	SIGN POST
TR	TRAIL
CD	CHECK DAM
BC	BITUMINOUS CONCRETE
GA	GRAVEL AREA
CO	CONCRETE
CB	CAPE COD BERM
GR	GRASS

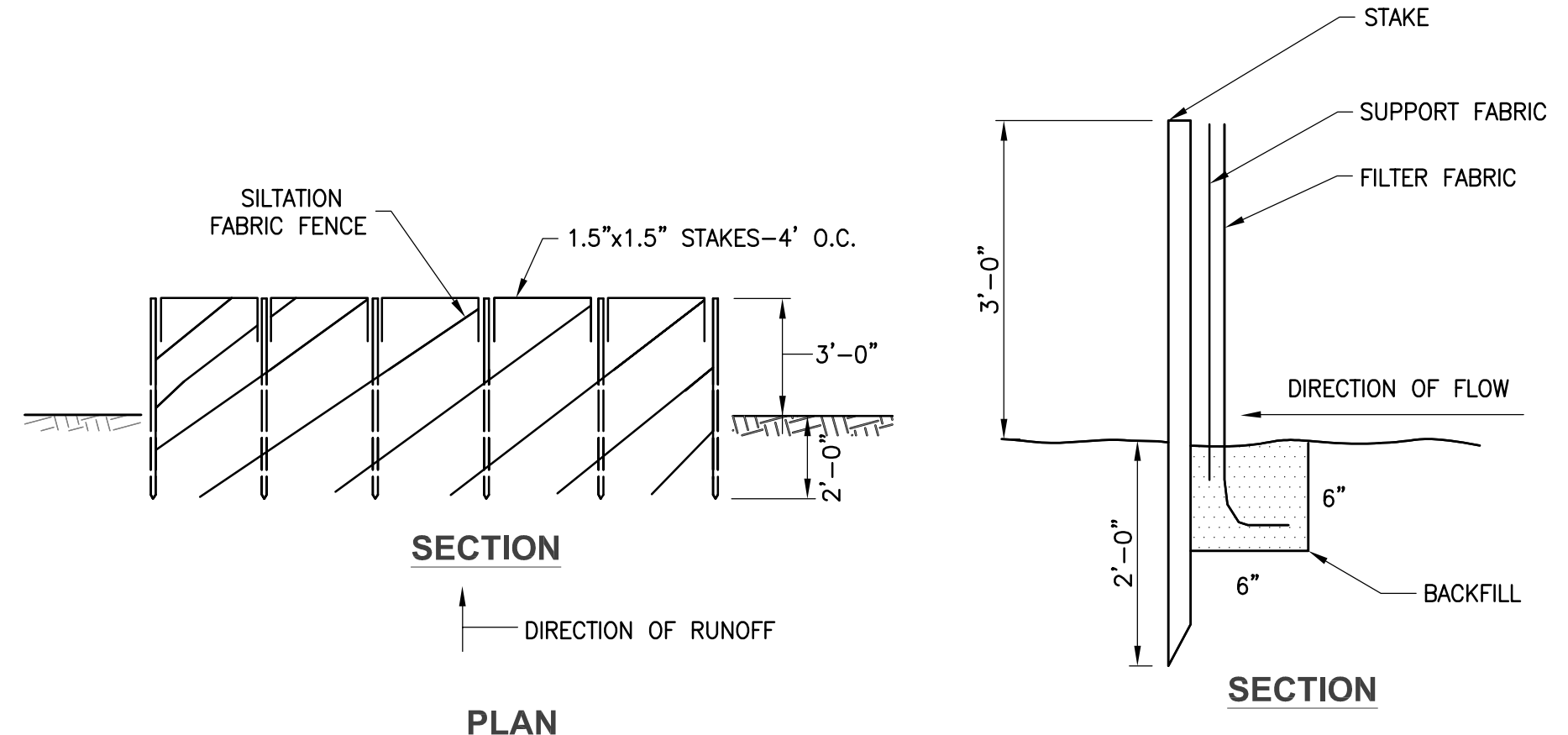
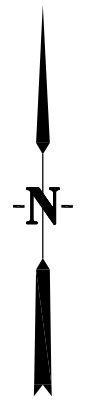
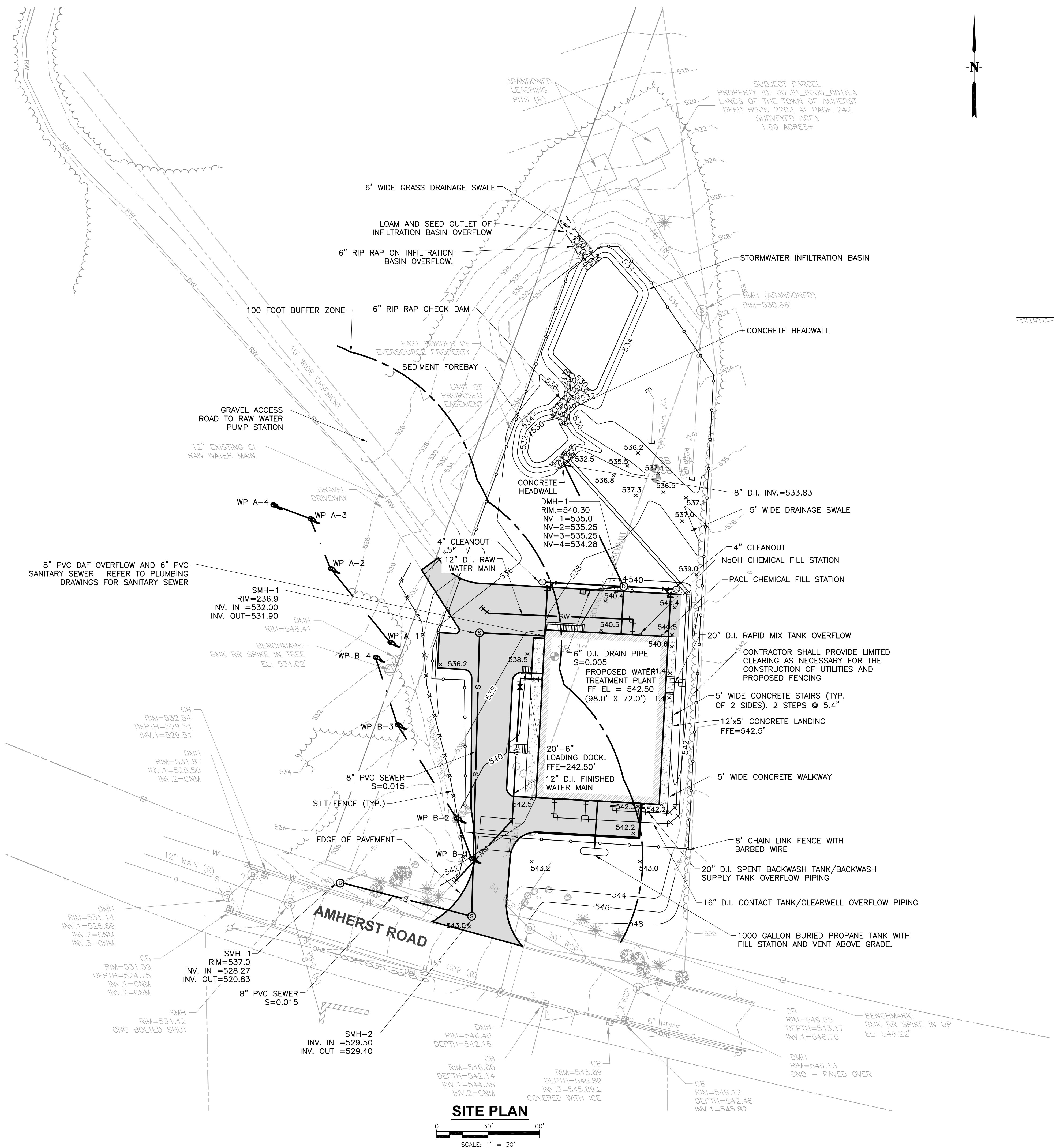


### SITE PLAN

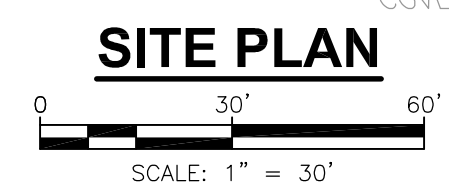


AMHERST DPW AMHERST, MASSACHUSETTS	CIVIL EXISTING CONDITIONS SITE PLAN		Approved By: RPN
CENTENNIAL WTP			Checked By: RPN
<b>RDA CONSERVATION SUBMITTAL NOT FOR CONSTRUCTION</b>			
T&H NO.: 5136 DATE: APRIL 2021 SCALE: AS NOTED		<b>C-1</b>	





**SILT FENCE EROSION CONTROL**  
 SCALE: NONE



AMHERST DPW  
 AMHERST, MASSACHUSETTS  
 CENTENNIAL WTP

CIVIL  
 PROPOSED SITE PLAN AND  
 EROSION CONTROL DETAIL



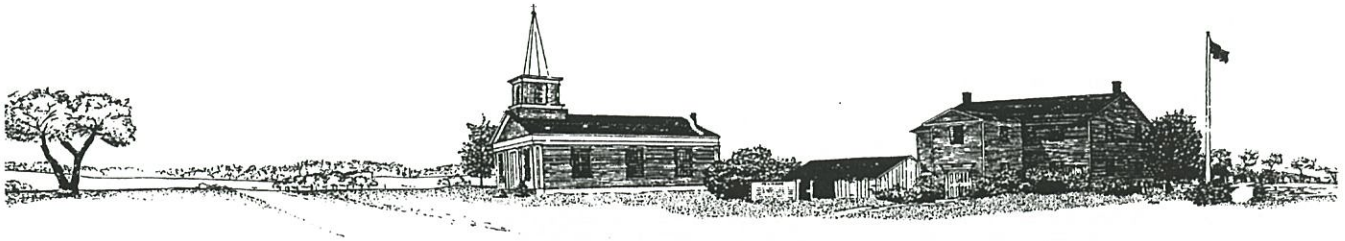

RDA  
 CONSERVATION  
 SUBMITTAL  
 NOT FOR  
 CONSTRUCTION



T&H NO.: 5136  
 DATE: APRIL 2021  
 SCALE: AS NOTED



# Appendix C



## Town of Pelham

Board of Assessors ♦351 Amherst Road ♦Pelham MA 01002

Phone-413-253-0734♦Fax 413-253-0847

pelhamassessor@comcast.net

MAP/BLOCK/PARCEL: 3.0-18.A

APPLICANT: Town of Amherst

DATE: March 31, 2021

BOARD: **CONSERVATION** PLANNING SELECTBOARD ZONING

### CERTIFIED LIST OF ABUTTORS

The Assessor's Office, Town of Pelham, hereby certifies the attached list of names and addresses. This list reflects the current names and addresses as they appear in our records as of January 1, 2020

**This list is only valid for a period of thirty (30) days from the date of certification by the Assessor.**

LORI J. TURATI  
ADMINISTRATIVE ASSESSOR

**APPLICANT**  
ASSESSORS  
CONSERVATION  
PLANNING  
SELECTBOARD  
ZONING

**PELHAM BOARD OF ASSESSORS  
REQUEST FOR CERTIFIED LIST OF ABUTTERS**

Note: THE ASSESSORS OFFICE REQUIRES 10 BUSINESS DAYS TO PREPARE AN ABUTTERS LIST. WE THEREFORE ADVISE YOU NOT TO SCHEDULE A HEARING UNTIL YOU HAVE THIS LIST.

Please Print

86 Amherst Road  
STREET ADDRESS

3  
MAP

18.A  
PARCEL

Town of Amherst Department of Public Works  
OWNER'S NAME

Town of Amherst Water Department  
APPLICANT'S NAME

86 Amherst Road  
STREET

586 South Pleasant Street  
STREET

Pelham                      MA  
CITY                              ST

Amherst                      MA                      01002  
CITY                              STATE                      ZIP

Kasey Kenyon, 508-709-0293  
CONTACT PERSON & PHONE #

\*\*\*Please note that if requesting abutters lists for two different departments for the same parcel, you must fill out separate abutters request forms.\*\*\*

Please circle type of permit or variance requested:

- A: Liquor License – Immediate abutters, also 500' from all borders for churches/hospitals/public & private schools.
- B: Planning Board – Subdivision or Special Permit - 300'
- C: Zoning: - Special Permit or Variance Appeals - 300'
- D: Conservation: -Wetland Hearing - 300'**
- E: Planning - Site Plan Review 300'
- F: Selectboard - 300'

NOTE: THE ABUTTERS LIST IS ONLY OFFICIAL FOR A PERIOD OF 30 DAYS FROM THE DATE OF CERTIFICATION BY THE ASSESSOR. AFTER 30 DAYS, YOU WOULD NEED TO REAPPLY FOR A NEW LIST.

RECEIVED

( ASO002 )

2-82.A  
PELHAM  
WESTERN MASS ELECTRIC  
PO BOX 270  
HARTFORD, CT 06141

2-81  
PELHAM  
ALTABET, SUSAN & DYDO, JOHN STEVEN  
*92 Suggler Meadow Rd  
Levere H, MA 01054*

3-18.A  
PELHAM  
AMHERST TOWN OF  
586 SOUTH PLEASANT ST  
AMHERST, MA 01002

2-83  
PELHAM  
LIKENS NANCY TRUMAN B JR MARJORIE  
277 NORTH EAST ST  
AMHERST, MA 01002

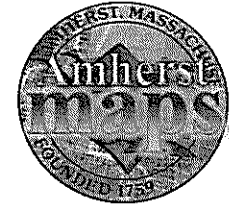
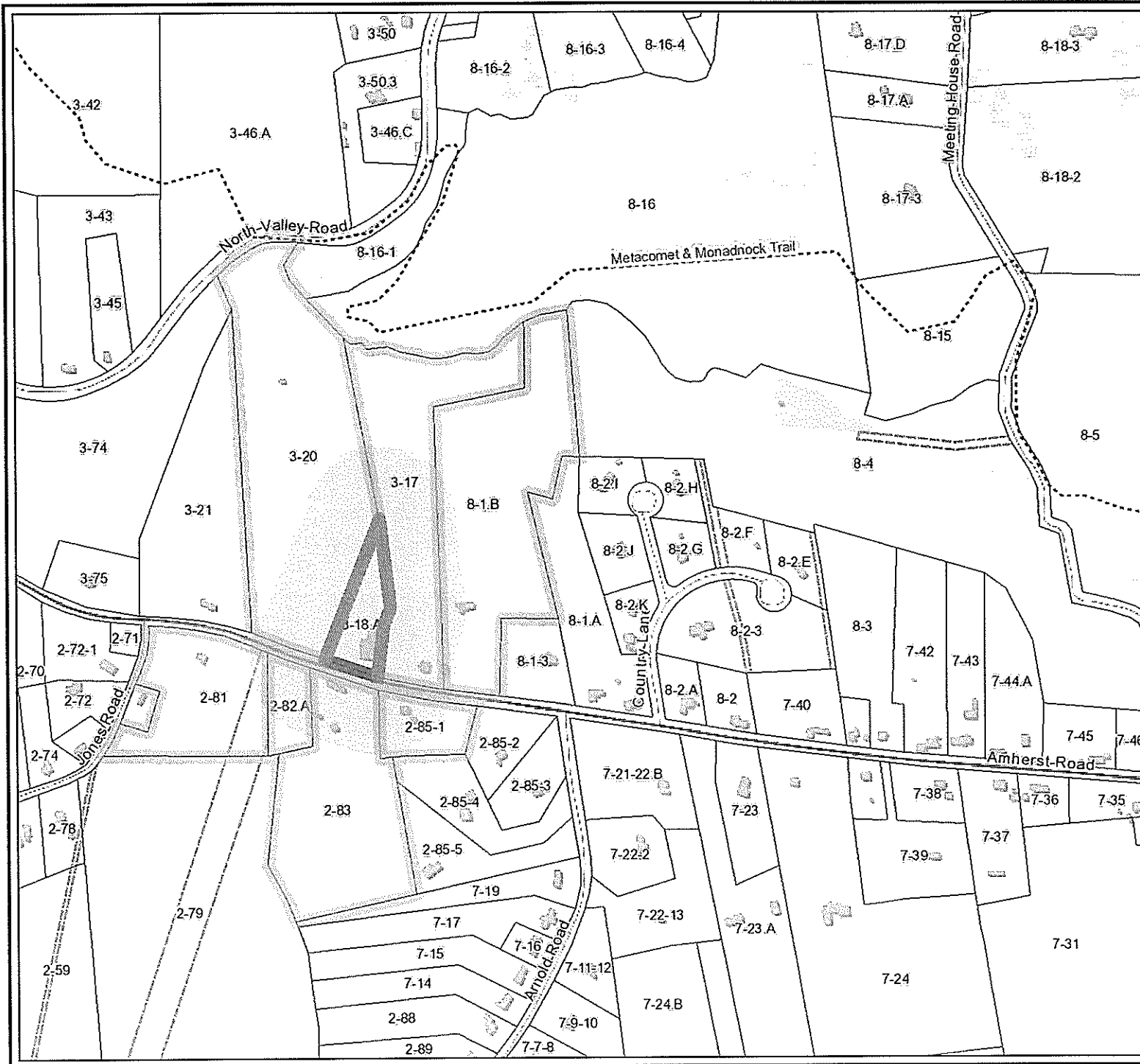
3-17  
PELHAM  
BEAUPRE MICHAEL J  
90 AMHERST RD  
PELHAM, MA 01002

2-85-1  
PELHAM  
KOSUDA RUSSELL R & MELISSA B  
91 AMHERST RD  
PELHAM, MA 01002

8-1.B  
PELHAM  
WOLF STEVEN S & CATHERINE V  
94 AMHERST RD  
PELHAM, MA 01002

3-20  
PELHAM  
WESTERN MASS ELECTRIC  
PO BOX 270  
HARTFORD, MA 06141

Parcel_ID	Parcel_Address	Owner	OwnerAddress	OwnerCityStZip
2-82.A	AMHERST RD	WESTERN MASS ELECTRIC	PO BOX 270	HARTFORD, CT 06141
2-81	75 AMHERST RD	ALTABET, SUSAN & DYDO, JOHN STEVEN	92 Soagler Mendocino Rd	Leverett, MA 01054
3-18.A	86 AMHERST RD	AMHERST TOWN OF	586 SOUTH PLEASANT ST	AMHERST, MA 01002
2-83	87 AMHERST RD	LIKENS NANCY TRUMAN B JR MARJORIE	277 NORTH EAST ST	AMHERST, MA 01002
3-17	90 AMHERST RD	BEAUPRE MICHAEL J	90 AMHERST RD	PELHAM, MA 01002
2-85-1	91 AMHERST RD	KOSUDA RUSSELL R & MELISSA B	91 AMHERST RD	PELHAM, MA 01002
8-1.B	94 AMHERST RD	WOLF STEVEN S & CATHERINE V	94 AMHERST RD	PELHAM, MA 01002
3-20	SOUTH VALLEY RD	WESTERN MASS ELECTRIC	PO BOX 270	HARTFORD, MA 06141



- Property Map
- Property Line
  - - Hydrographic Property Line
  - - Right of Way Line
  - - Town Boundary
  - Lot Lines
  - - Former Property Line
  - - Subdivision Lot Line
  - - Easements
  - Adjacent Towns Parcels
- Basemap 2009
- - Trails

Horizontal Datum: MA Stateplane Coordinate System, Zone 4151, NAD83, Feet; Vertical Datum: NAVD88, FT  
 Planimetric & topographic basemap compiled at 1"=40' scale from April, 2009 Aerial Photography. Parcels compiled to match the basemap; revisions are ongoing.

The information depicted on this map is for planning purposes only. It may not be adequate for legal boundary definition, regulatory interpretation, or property conveyance purposes. Utility structures & underground utility locations are approximate & require field verification.

The Town of Amherst makes no warranties, expressed or implied, concerning the accuracy, completeness, reliability, or suitability of these data, & does not assume any liability associated with the use or misuse of these data.



# Appendix D



# Centennial Water Treatment Plant

## Wetland Delineation

A delineation of wetland areas jurisdictional under the Massachusetts Wetlands Protection Act and the Town of Pelham Wetlands Protection Bylaw was conducted on March 26th, 2021 by Beth Willson, Wetland Professional in Training (WPIT), and Town of Amherst Environmental Scientist. The weather was cloudy with some light rain and temperatures in the upper 50s. A drainage swale was observed to the west of the water treatment plant driveway, and an area of Bordering Vegetated Wetlands (BVW) was observed where the drainage swale discharges. No other wetland resource areas were observed within 100 feet of the proposed project work area.

On March 24<sup>th</sup>, 2021 Ms. Willson met with Meredith Borenstein, Pelham Conservation Agent, on site to look at the resource areas. Ms. Borenstein indicated that the drainage swale is jurisdictional as an intermittent stream under the Pelham Wetlands Protection Bylaw, but is not jurisdictional under the state Wetlands Protection Act.

### **Delineation Methodology**

All wetland resource areas near the proposed project area were marked with consecutively numbered orange pin flags (stream Bank) or blue flagging tape (BVW). Bank was marked at the first observable break in slope. The methodology used to delineate the BVW followed the state wetland regulations 310 CMR 10.55 and the DEP handbook *Delineating Bordering Vegetated Wetlands under the Massachusetts Wetlands Protection Act* (1995). The delineation was based on vegetation, soils, and hydrology. Hydrophytic vegetation was categorized using the US Fish and Wildlife Service's National List of Plant Species that Occur in Wetlands (1988), as well as all plant species listed in the Wetlands Protection Act. DEP data sheets documenting the delineation are attached.

The eastern bank of the intermittent stream was delineated and points were labelled B1-B4 (B-line). Similarly, the eastern/northeastern side of the BVW was delineated and points were labelled A1-A4 (A-line). See the project plan set for wetland point locations. Soils were assessed and data sheets were completed for point A3. The BVW consisted of a forested wetland with wetland indicator species red maple (*Alnus rugosa*), speckled alder (*Alnus incana*), sensitive fern (*Onoclea sensibilis*), and woolgrass (*Scirpus cyperinus*). A drainage swale was observed to discharge into the eastern side of the wetland, surface water generally drained westerly across the wetland. Saturated soils and pooling water were observed in the observation plot for A3.

The site is not located within an area mapped as Priority or Estimated Habitat for rare or endangered species by the Massachusetts Natural Heritage and Endangered Species Program, or within an Area of Critical Concern (ACEC), and does not include any Certified Vernal Pools (CVPs).



DEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Amherst Prepared by: Beth Willson Project location: Centennial Water Treatment Plant File #: \_\_\_\_\_  
Amherst Rd., Pelham, MA

Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section 1. Vegetation Observation Plot Number: A35 Transect Number: \_\_\_\_\_ Date of Delineation: 3/26/21

A. Sample Layer and Plant Species (by common/scientific name)	B. Percent Cover (or basal area)	C. Percent Dominance	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*
<u>Ground Cover - 50%</u>				
* Sensitive Fern	25%	50%	Yes	FACW
* Woolgrass	5%			
Golden Rod	20%			
<u>Shrubs - 25%</u>				
* Speckled alder	15%	60%	Yes	FACW
* Multiflora Rose	10%			
<u>Trees - 100%</u>				
* Red Maple	80%	80%	Yes	FAC
Red Oak	20%			

\* Use an asterisk to mark wetland indicator plants; plant species listed in the Wetlands Protection Act (MGL c.131, s.40) ( includes Canadian hemlock, *Tsuga canadensis*); plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACW, FACW-, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

**Vegetation conclusion:**

Number of dominant wetland indicator plants: 3 Number of dominant non-wetland indicator plants: 0

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes no

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent.

1 - 5 = 3%, 6 - 15 = 10.5%, 16 - 25 = 20.5%, 26 - 50 = 38%, 51 - 75 = 63%, 76 - 95 = 85.5%, 96 - 100 = 98%

**Section II. Indicators of Hydrology**

**Hydric Soil Interpretation**

1. Soil Survey *Longden & Hampshire Counties, Vermont, 1915 edition*  
 Is there a published soil survey for this site?  yes  no  
 title/date: *Hamden & Hampshire Counties, Mass, Eastern part, Version 15*  
 map number: *6/10/20*  
 soil type mapped: *316C & 317C - Sci tuatae fine sandy loam*  
 hydric soil inclusions:

Are field observations consistent with soil survey?  yes  no  
 Remarks: *Soil observed to be fine, sandy, loam.*

Horizon	Depth	Matrix Color	Mottles Color
<i>O</i>	<i>0-6"</i>		
<i>A</i>	<i>6"-20"</i>	<i>7.5/4R</i> <i>4/2</i>	

Remarks: *Both horizons saturated.*

3. Other:  
 Conclusion: Is soil hydric?  yes  no

**Other Indicators of Hydrology: (check all that apply and describe)**

- Site inundated: *Water puddling in observation plot*
- Depth to free water in observation hole: \_\_\_\_\_
- Depth to soil saturation in observation hole: \_\_\_\_\_
- Water marks: \_\_\_\_\_
- Drift lines: \_\_\_\_\_
- Sediment deposits: \_\_\_\_\_
- Drainage patterns in wetland: *Stream flows into wetland drainage generally north westerly through wetland.*
- Oxidized rhizospheres: \_\_\_\_\_
- Water-stained leaves: \_\_\_\_\_
- Recorded data (stream, lake, or tidal gauge; aerial photo; other): \_\_\_\_\_

Other: \_\_\_\_\_

Vegetation and Hydrology Conclusion		yes	no
Number of wetland indicator plants	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
≥ number of non-wetland indicator plants			
Wetland hydrology present:			
hydric soil present	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
other indicators of hydrology present	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Sample location is in a BVW</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Submit this form with the Request for Determination of Applicability or Notice of Intent.

DEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Amherst Prepared by: Beth Wilson Project location: Centennial Water Treatment Plant File #: \_\_\_\_\_

Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section 1. Vegetation Observation Plot Number: ASN Transect Number: \_\_\_\_\_ Date of Delineation: 3/26/21

A. Sample Layer and Plant Species (by common/scientific name)	B. Percent Cover (or basal area)	C. Percent Dominance	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*
--	-------------------------------------	-------------------------	----------------------------------	--------------------------------------

<u>Ground Cover</u>	<u>100%</u>	<u>100%</u>	<u>Yes</u>	
<u>Grass/lawn</u>	<u>100%</u>			

Shrubs 0%

Trees 0%

Vegetation Altered (Mowed)

\* Use an asterisk to mark wetland indicator plants; plant species listed in the Wetlands Protection Act (MGL c.131, s.40) ( includes Canadian hemlock, *Tsuga canadensis*); plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACW-, FACW+, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

**Vegetation conclusion:**

Number of dominant wetland indicator plants: \_\_\_\_\_ Number of dominant non-wetland indicator plants: \_\_\_\_\_

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants?    yes    no

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent.

1 - 5 = 3%,    6 - 15 = 10.5%,    16 - 25 = 20.5%,    26 - 50 = 38%,    51 - 75 = 63%,    76 - 95 = 85.5%,    96 - 100 = 98%

**Section II. Indicators of Hydrology**

**Hydric Soil Interpretation**

**1. Soil Survey**

Is there a published soil survey for this site?  yes  no

title/date: *Hampden & Hampshire Counties, Mass. Eastern Part, Version 15*

map number: *6/10/20*

soil type mapped: *316C & 317C - Saturated fine sandy loam*

hydric soil inclusions:

Are field observations consistent with soil survey?  yes  no

Remarks:

*Soil observed to be fine, sandy loam.*

**2. Soil Description**

Horizon	Depth	Matrix Color	Mottles Color
<i>O</i>	<i>0-6"</i>	<i>7.5YR 4/2</i>	<i>Grass, roots</i>
<i>A</i>	<i>6"-20"</i>	<i>10YR 6/4</i>	<i>None</i>

Remarks:

**3. Other:**

Conclusion: Is soil hydric?  yes  no

Other Indicators of Hydrology: (check all that apply and describe)

Site inundated: *NO*

Depth to free water in observation hole: \_\_\_\_\_

Depth to soil saturation in observation hole: *30"*

Water marks: \_\_\_\_\_

Drift lines: \_\_\_\_\_

Sediment deposits: \_\_\_\_\_

Drainage patterns in wetland: \_\_\_\_\_

Oxidized rhizospheres: \_\_\_\_\_

Water-stained leaves: \_\_\_\_\_

Recorded data (stream, lake, or tidal gauge; aerial photo; other): \_\_\_\_\_

Other: \_\_\_\_\_

**Vegetation and Hydrology Conclusion**

Number of wetland indicator plants  yes  no  
 ≥ number of non-wetland indicator plants

Wetland hydrology present:

hydric soil present

other indicators of hydrology present

Sample location is in a BWI



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