

# Notice of Intent

## Water Quality Improvements Projects – Sassaquin Pond, New Bedford

City of New Bedford

February 2022



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□ **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 #:

eDEP Transaction #:1342377

City/Town:NEW BEDFORD

**List of Additional Property Owners:**

136A/838: Yvonne A Fortin, 1113 Tobey Street, New Bedford, MA 02745

138/91: Clarence E. Brehaut, 364 Sassaquin Avenue, New Bedford, MA 02745

138/161: Leonard Gurney, 1398 R. Sassaquin Avenue, New Bedford, MA 02745

138/191: Frey Michael F. Trustee, 1479 Morton Avenue, New Bedford, MA 02745





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**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  
4. State Check Number  
6. Payer name on check: First Name

3. Check date  
5. Check date  
7. Payer name on check: Last Name

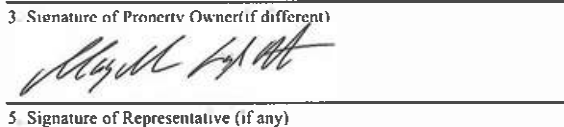
**F. Signatures and Submittal Requirements**

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

2-3-2022  
2. Date

3. Signature of Property Owner (if different)  
  
5. Signature of Representative (if any)

4. Date  
2-3-22  
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 Section C, Items 1-3, 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.

## STORMWATER REDEVELOPMENT CHECKLIST



## ***Checklist for Redevelopment Projects***

The project meets the criteria for a redevelopment project under the Massachusetts Stormwater Management Standards (the Standards). According to Standard 7, a redevelopment project is required to meet Standards 2 and 3 only to the maximum extent practicable, and the pretreatment and structural stormwater best management practice requirements of Standards 4, 5, and 6. Furthermore, existing stormwater discharges are required to comply with Standard 1 only to the maximum extent practicable.

Below is a brief discussion how the proposed removal of the two asphalt drainage swales and removal of the paved old roadway section complies with Standards 2 and 3 to the maximum extent practicable, and the pretreatment and structural stormwater best management practice requirements of Standards 4. Standards 5 (Higher Potential Pollutant Loads) and 6 (Critical Areas) are not applicable to this project site. In general, there will be an improvement over existing conditions in terms of stormwater treatment.

### Standard 1: (Untreated discharges)

***No new stormwater conveyances (e.g., outfalls) may discharge untreated stormwater directly to or cause erosion in wetlands or waters of the Commonwealth.***

City is proposing to remove two asphalt drainage swales on the north shore of the pond and replace them with naturalized bioswales. Each bioswale will be designed with 7-foot wide, 12-inch deep geotextile lined riprap sump, planted channels ranging in size from 5-foot to 6-foot wide, and 10-ft wide riprap splash pad at the discharge point along the pond shoreline (see Sheet 5 in Attachment E). Retrofitting the existing asphalt drainage swales with naturalized drainage swales will help remove pollutant loads, lower the temperature of the stormwater entering the pond, reduce the rate of stormwater runoff entering the pond, and prevent erosion.

### Standard 2: (Peak rate control and flood prevention)

***Stormwater management systems must be designed so that post-development peak discharge rates do not exceed pre-development peak discharge rates. This Standard may be waived for land subject to coastal storm flowage.***

The proposed project will reduce both the volume of stormwater runoff through the removal of approximately 1,235 square feet of impervious area will provide some reduction in the rate of runoff compared to existing conditions.

### Standard 3: (Recharge to Ground water)

***Loss of annual recharge to ground water shall be eliminated or minimized through the use of infiltration measures, including environmentally sensitive site design, low impact development techniques, best management practices, and good operation and maintenance. At a minimum, the annual recharge from the post-development site shall approximate the annual recharge from the pre-development conditions based on soil type. This Standard is met when the stormwater management system is designed to infiltrate the required recharge volume as determined in accordance with the Massachusetts Stormwater Handbook.***

Replacing asphalt drainage swales with naturalized bioswales and the paved roadway section with a grassy area will provide additional groundwater recharge compared to existing conditions.

Standard 4: (80% TSS Removal)

*Stormwater management systems must be designed to remove 80% of the average annual post-construction load of Total Suspended Solids (TSS). This standard is met when:*

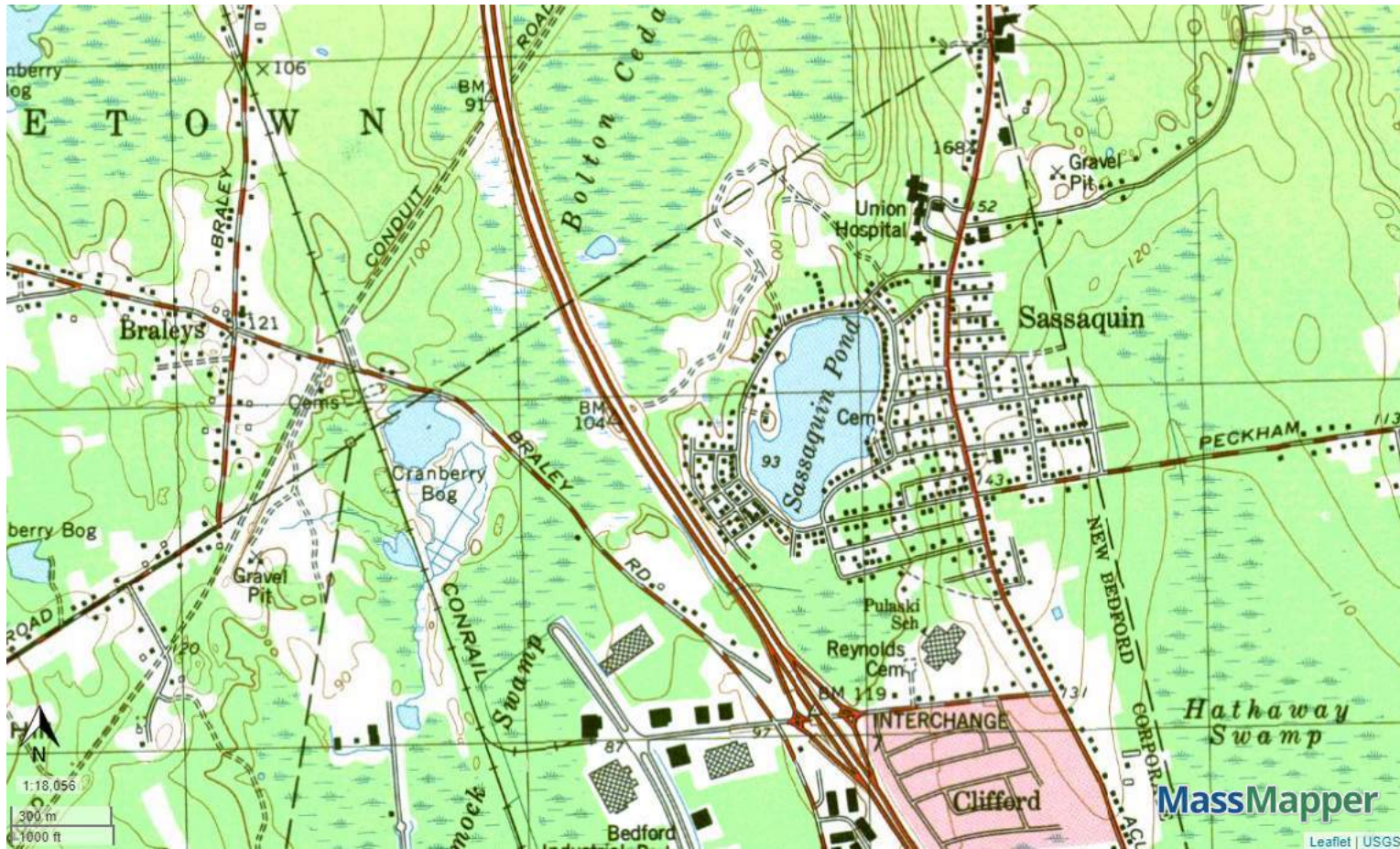
- a. Suitable practices for source control and pollution prevention are identified in a long-term pollution prevention plan and thereafter are implemented and maintained;*
- b. Stormwater BMPs are sized to capture the required water quality volume determined in accordance with the Massachusetts Stormwater Handbook; and*
- c. Pretreatment is provided in accordance with the Massachusetts Stormwater Handbook.*

Replacing asphalt drainage swales with naturalized bioswales and the paved roadway with a grassy area will provide some TSS removal as the vegetation in the bioswales and in the grassy area will capture some pollutants. In addition, the revegetation of these areas will mitigate erosion and the potential for large volumes of sediment to be transported to the pond from runoff.

## FIGURES

**FIGURE 1**  
**PROJECT LOCATION**

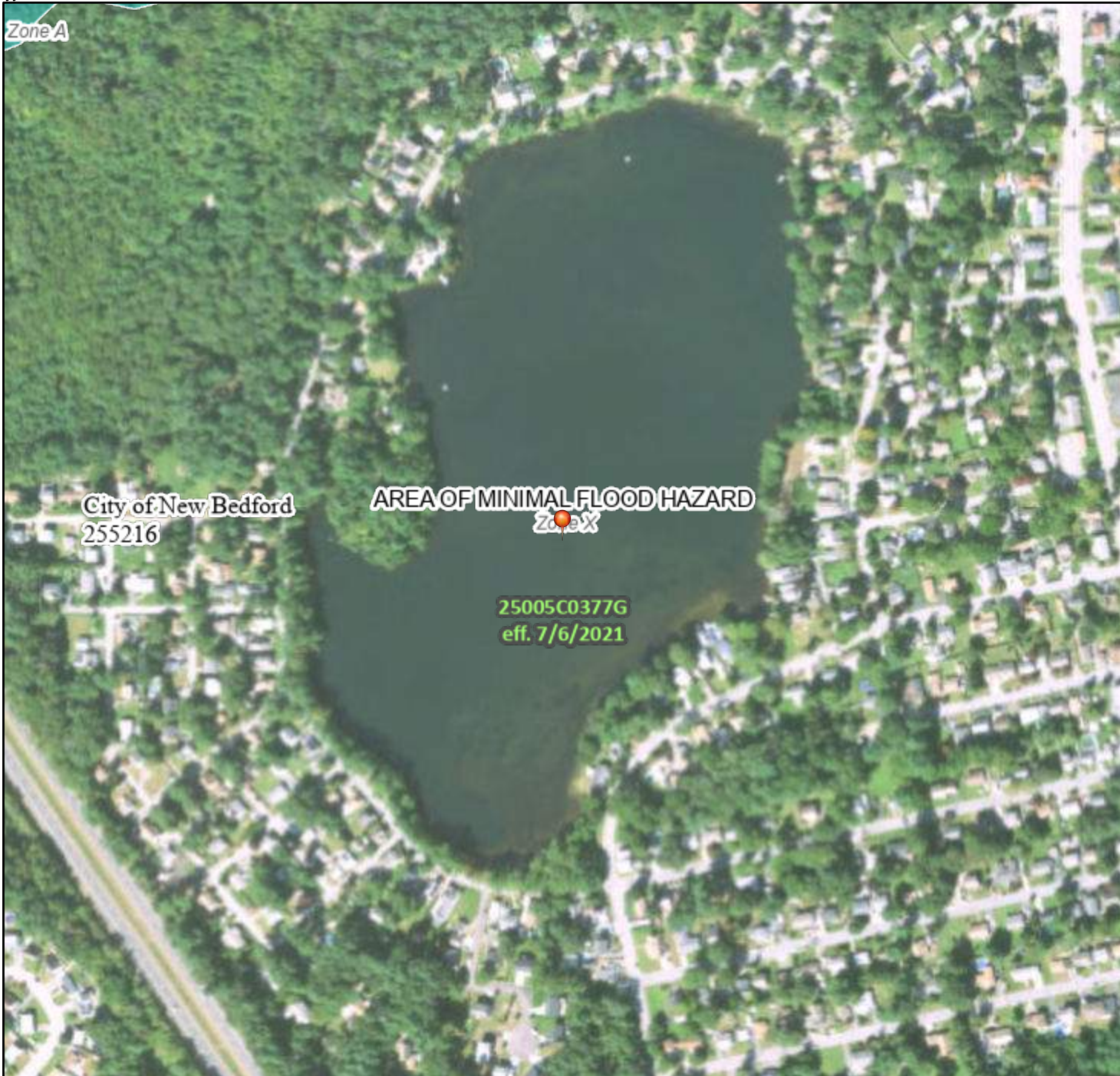
Figure 1: USGS Location Map



**FIGURE 2**  
**FLOOD INSURANCE RATE MAP**



ff1



FHCG	
66.52 66.55	<p>LWHRW %DHJRRG OHYDMLRQ % -FCH\$ 9 \$</p> <p>LWK%RUFBWK -FCH\$ 9 9 9</p> <p>\$HODMVRU)DRRQ</p>
26.52 26.5	<p>\$DQD &amp;OHP)RRG EPUG \$JHD/ R DQDQ FROPHIORRZ WKDHUDH G-BWKOHV WKOQRCHIRW RU ZWKGDLO DJHD/R OHV WKOQRCHVTOUHEOH#CH;</p> <p>XWUH&amp;QJ.VLRO/\$DQD &amp;OHP)RRG EPUG -FCH;</p> <p>\$JHZWK&amp;GHP)RRG&amp;LNGHWR HMH &amp;HRVHV -FCH;</p> <p>\$JHZWK)RRG&amp;LNGHWRHMH -FCH'</p>
26.55 66.55	<p>\$JDR OQED)RRG EPUG -FCH;</p> <p>(HFWL YHJ</p> <p>\$JDR &amp;GWHUHQG)RRG EPUG -FCH'</p> <p>--- &amp;OQD &amp;OYHUW RU &amp;VRUR#ZU</p> <p>      HMLNH RU DRRQDO</p>
26 66	<p>--- &amp;JRW &amp;FWLRQ/ZWK\$DQD &amp;OHP</p> <p>--- DVHU &amp;UIDPHOHYDMLRQ</p> <p>--- &amp;DWD 7UDQFW</p> <p>~ ~ ~ ~ ~ %DHJRRG OHYDMLRQLQ %</p> <p>== LEW R &amp;VXG</p> <p>---XJLVGLFWLRQ%&amp;OEDU</p> <p>--- &amp;DWD 7UDQFW %DHLQH</p> <p>--- &amp;JROH%DHLQH</p> <p>--- &amp;JURD&amp;L.F)DVXUH</p>
66	<p>□ L.L.WDD DWD\$DLOEDH</p> <p>□ RL.L.WDD DWD\$DLOEDH</p> <p>□ &amp;DSS-G</p>
	<p>● 7HSLQGL VSDHGRQWKHBSLV DQD&amp;JL&amp;LW SRLQV VHOHFWHG&amp;VWKXHU DQDGRV CRW UH&amp;LH DQD&amp;KRLWDWL YHSUR&amp;UW)ORFDMLRQ</p>

7KLV B&F&D LHV ZWK)DV WDDQ&JG/IRU WKH XHR  
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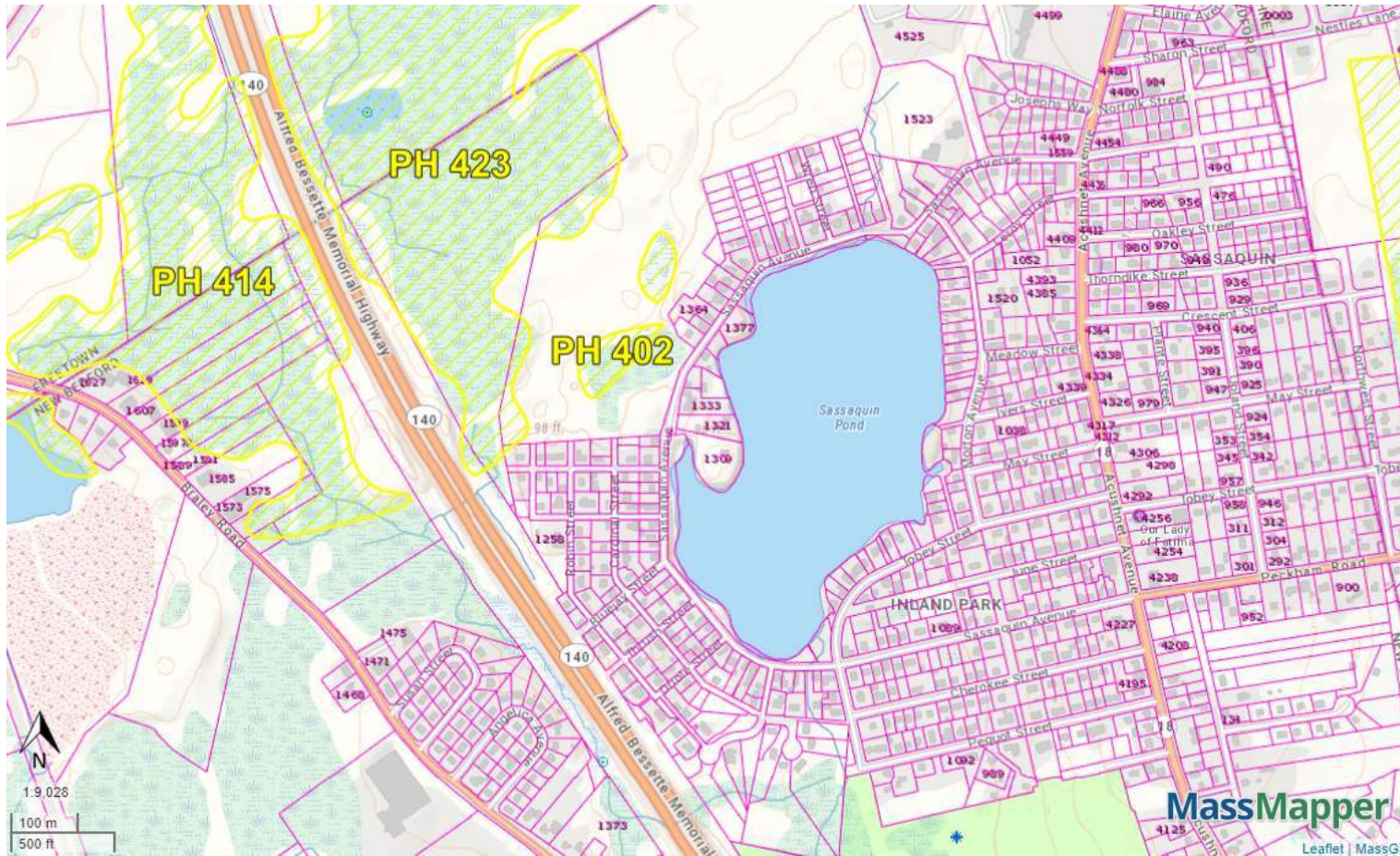
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UHOH&V F&O&H/RU DQ&Q&V V&EHX&QV WRW&LV G&VH&DQD  
W&L& 7KH#DQD H&F&V L&LQRUBMLRQ& F&O&H/RU  
B&F&F&V&S&U&V&G&G&Q&Z&D&V&D&R&YU W&L&R

7KLV B&S&L&H&V Y&L&GLI W&K&R&H/RU RU&H R&W&H&RO&R&Z&Q&BS  
H&D&R&V&V GR&CRW D&S&DU ED&V&S&L&H&U IORR&J&H&O&D&H&V  
OH&H&G V&D&H&EDU B&S&U&H&D&L&R&Q&D&VH F&R&Q&W&L&G&Q&M&L&L&H&V  
)&S&D&D&O Q&H&U DQD)G&H&F&V L&Y&G&V&H D&S&L&H&V IRU  
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UH&O&D&M&V&S&U&R&V

**FIGURE 3**  
**ESTIMATED AND PRIORITY HABITATS MAP**



# Figure 3 - Estimated and Priority Habitat Map



- Potential Vernal Pools
- NHESP Priority Habitats of Rare Species
- NHESP Estimated Habitats of Rare Wildlife
- NHESP Certified Vernal Pools
- Areas of Critical Environmental Concern ACECs Boundaries
  - ROAD/RAIL BASED
  - RIVER BASED
  - WETLAND BASED
  - FLOODPLAIN BASED
  - TIDAL BASED
  - CONTOUR BASED
  - POLITICAL BOUNDARY
  - PROPERTY LINE BASED
  - OTHER
  - NOT DEFINED
- Areas of Critical Environmental Concern ACECs Transparent Green
- Areas of Critical Environmental Concern ACECs
- Property Tax Parcels

**ATTACHMENT A**  
**PROJECT NARRATIVE**

# Attachment A

## Project Narrative

### 1.0 Project Description

In a continuing effort by the City of New Bedford (City) to improve the water quality in Sassaquin Pond, the City is requesting an Order of Conditions (OOC) for the following water quality improvements: alum treatment, common reed (*Phragmites australis*) removal and management, and limited impervious area removal.

CDM Smith Inc. (CDM Smith) completed a Watershed Management Plan (WMP) for Sassaquin Pond in September 2021. A watershed-based management approach to address water quality issues in the Sassaquin Pond was determined by both the City and Sassaquin Pond Betterment Association to be the next best step in lieu of continued installation of costly structural BMPs and implementing recommendations from existing fragmented studies and assessments. The WMP presented a work plan (see Attachment D), developed in coordination with the City's Department of Public Infrastructure (DPI) and the local Sassaquin Pond Betterment Association, guiding capital and operations and maintenance (O&M) actions. The proposed water quality improvement projects subject to this Notice of Intent (NOI) are part of that work plan.

The proposed water quality improvements projects will result in temporary alteration to Land Under Water, Inland Bank, the 25-foot Setback, and the 100-foot Buffer Zone to Inland Bank.

The following sections address the existing on-site wetland conditions, work proposed within and adjacent to wetland resource areas, compliance with performance standards, and proposed measures to mitigate any wetland resource area impacts.

### 2.0 Previous Water Quality Improvements

Part of the City's efforts of improving water quality in Sassaquin Pond since the 1970s have included:

- Banning of gasoline motors,
- Developing a storm sewer system to reduce flooding potential in the watershed and its surrounding neighborhoods, and
- Connecting properties to the sanitary sewer system in 1974 and 1975, reducing nutrient and bacteria loads to the pond.

While these actions notably improved water quality, degraded water quality still occurred in Sassaquin Pond. This led to a lawsuit by area residents against the City (Pothlier *et al.* vs. the City of New Bedford *et al.*, 1987). In response to this lawsuit, the City was required to conduct a water quality monitoring program and bathymetric survey (completed in the late 1980s-early 1990s) and maintain the water quality in the pond at Class B standards. Since the settlement, the City has implemented additional water quality improvements within the watershed, including

a frequent street sweeping program, alternative snow and ice removal practices, public education, and structural best management practices (BMPs) such as a Jellyfish® water quality treatment system, tree boxes, and stormwater leaching pits.

### 3.0 Existing Conditions

The site located at Sassaquin Pond, a 38-acre freshwater pond with a maximum depth of roughly 27 feet (see Figure 1: Project Location Map). Sassaquin Pond has a 72-acre watershed, based on a LiDAR-based watershed delineation. The pond is primarily abutted by residential properties and City-owned land. The wetland resource areas and areas of conservation jurisdiction on the site that are protected under the Wetlands Protection Act and the City of New Bedford's Wetland Protection Ordinance include:

- Land Under Water (LUW)
- Inland Bank

#### 3.1 Description of Existing Wetland Resource Areas

Wetland resource areas were identified by a CDM Smith Wetland Scientist on December 3, 2021. Existing field delineated wetlands resource boundaries were evaluated for conformance with the Massachusetts Wetlands Protection Act (MGL c.131, s.40) (WPA) and Regulations (310 CMR 10.00) and the U.S. Army Corps of Engineers 1987 Wetlands Delineation Manual (Environmental Laboratory, 1987), and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual, Northcentral and Northeast Region (January 2012). The following wetland resource areas are present on the site.

##### 3.1.1 Land Under Water (LUW)

*Land Under Water is (LUW) defined as:*

*"..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." 310 CMR 10.56(2)*

LUW is the pond bottom below the mean annual low water elevation.

##### 3.1.2 Inland Bank

Inland Bank (Bank) is defined as:

*"a 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 floodplain, or, in the absence of these, it occurs between a water body and an 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." [310 CMR 10.54(2)]*



The mean annual flood level defines the upper boundary of Bank along Sassaquin Pond and was GPS located in the field and shown on the Project Plans in Attachment E.

### 3.1.3 Bordering Land Subject to Flooding (BLSF)

Bordering Land Subject to Flooding (BLSF) is defined as:

*“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.”* [310 CMR 10.57 (2)]

According to the FEMA Flood Insurance Rate Map (FIRM) (community panel No. 25005C0377G, dated 7/6/2021) of the project site there is no 100-year floodplain present (see Figure 2).

### 3.2.4 Estimated Habitat

There are no state listed rare or endangered species within or adjacent to the project area according to the new online interactive mapping tool Mass Mapper, see Figure 3.

## 4.0 Work Proposed within Land Under Water, Inland Bank, and Buffer Zones

The proposed water quality improvements consist of alum treatment, common reed (*Phragmites australis*) removal and management, and limited impervious area removal, further described below. Proposed work will temporarily alter the following wetland resource areas: Land Under Water and Inland Bank as summarized in Table 1 below.

**Table 1: Wetland Resource Area Impacts**

Wetland Resource Area	Temporary Impacts (sf) from Water Quality Improvements Projects			
	<i>Alum Treatment</i>	<i>Phragmites Removal</i>	<i>Impervious Area Removal</i>	<i>Total Temporary Alteration</i>
<b>Land Under Water (LUW)</b>		4,565 sf		<b>4,565 sf</b>
<b>Inland Bank</b>	20 linear feet (for access)	0	14 linear feet	<b>34 linear feet</b>

Proposed water quality improvements projects will also temporarily alter the 25-ft Setback and the 100-ft Buffer Zone.

### 4.1 Alum Treatment

#### 4.1.1 Nutrient Assessment

According to the WMP, Sassaquin Pond has shown impaired conditions, owing to high phosphorus and chlorophyll concentrations, as well as low dissolved oxygen concentrations in deep locations below the seasonal thermocline. Cyanobacteria blooms in Sassaquin Pond have become increasingly frequent and severe. These conditions have resulted in Sassaquin Pond being listed as an impaired waterbody on the Massachusetts Year 2016 Integrated List of Waters

(approved by U.S. Environmental Protection Agency) with impairments for algae, fecal coliform, harmful algal blooms, and odor. The designation as an Impaired Waterbody constitutes a legal obligation under the Clean Water Act Section 303(d) for the municipality/owners to take action to improve water quality for the benefit of public and ecological health.

According to the WMP, reduction of phosphorus levels within the pond is vital to improving water quality. Several water quality studies of Sassaquin Pond have been funded by the City and/or the Sassaquin Pond Betterment Association to understand the pond's water quality status, potential causes of water quality degradation, and to develop recommendations for structural and non-structural interventions to improve water quality in the pond. Studies that have been completed include:

- *A Preliminary Evaluation of Sassaquin Pond and its Watershed*, Baystate Environmental Consultants, 1987
- *Sassaquin Pond Restoration Study*, Nitsch Engineering, 2013
- *Sassaquin Pond Total Phosphorus Study*, Normandeau Associates, Inc., 2014
- *Draft Sassaquin Pond Baseline Assessment Report*, University of Massachusetts Dartmouth School of Marine Science and Technology, 2016 (Eichner *et al.*, 2016; SMAST report).

All three more recent studies (2013 and later) evaluated phosphorus-related impairments in Sassaquin Pond. These studies indicate that Sassaquin Pond has excess phosphorus causing periodic algal blooms, such as the cyanobacteria blooms that occurred in 2012 and September 2020. In addition, a high sediment oxygen demand within the pond contributes to low oxygen (anoxic) conditions in the deep sections of the pond. This causes exceedances of the state dissolved oxygen standard in the deeper water in the pond and can cause release of phosphorus from sediment contributing an internal load of phosphorus.

CDM Smith evaluated in the WMP the findings of the Nitsch Engineering, the Normandeau Associates, and the SMAST studies in the to assess potential sources of phosphorus. The SMAST study results, when considered in concert with the monitoring conducted by Normandeau and the desktop analysis conducted by Nitsch, found that management actions need to consider both internal and external phosphorus loads.

It is the City's intent to address the internal loads via the proposed Alum Treatment. External loads will be addressed under future projects starting in 2022 and will include a combination of short-term cost-effective remedial actions and longer term more costly capital improvements projects. This approach was outlined in the WMP as the most cost effective and fast-track method to improving water quality in the Pond.

#### **4.1.2 Proposed Alum Treatment Method**

An alum application is proposed for Sassaquin Pond to reduce internal phosphorus release from pond sediments into the water column during periods of low oxygen, recommended in the WMP and backed by region-based recommendations by the U.S. EPA, which should greatly improve the

overall water quality within Sassaquin Pond and reduce the likelihood of harmful algal bloom development. The City will contract with Solitude Lake Management for the alum treatment. The alum treatment is proposed to occur in the spring when algae concentrations are lower, and less phosphorus will have been released from the sediment as dissolved oxygen levels will not be depleted early in the growing season. The alum treatment will occur over an estimated 22.0 acres of Sassaquin Pond (roughly 58% of the total acreage of Sassaquin Pond), focusing on the areas where water depths exceed 3 meters. Liquid aluminum sulfate and liquid sodium aluminate will be applied from a specially designed spray boat equipped with a calibrated pumping system which will inject the products separately but concurrently, at a 2:1 ratio, just below the surface of the water and into the prop wash of the outboard engine in order to provide flash-mixing. Both products will be supplied and delivered to the project site by the Holland Company using a standard, split compartment tanker truck. Solitude will use the City owned parcel at the existing pump station on the northern shore as their staging area. Products will be applied to the designated 22-acre treatment area at a dose of 12 g/m<sup>2</sup>. Solitude Lake Management is responsible for obtaining a MassDEP License to *Apply Chemicals Permit*.

The following monitoring will also be performed:

- pH and alkalinity monitoring from a separate boat during the treatment.
- In-situ monitoring at one location in the pond, both before and after alum treatments. In-situ monitoring will consist of a pH/conductivity/temperature/dissolved oxygen profile at 1-meter intervals plus total phosphorus and orthophosphate at the surface and bottom of the pond.

The goal is to maximize total phosphorus reduction to restore a fully functioning pond ecosystem. Given the limited filtering and flushing availability from the surrounding watershed and the internal load of phosphorus, Sassaquin Pond will remain at risk of continuing eutrophication if no action is taken to reverse the current cycle.

#### **4.2 Common Reed (*Phragmites australis*) Removal and Management**

Sediment accumulation at the pond inlets of Sassaquin Pond was noted as an issue in the 2013 Nitsch study as well as through meetings with residents that reside around the pond. This accumulation has reduced the area's viability as a native species habitat, resulting in a limited number of patches of common reed (*Phragmites australis*) around the pond. Common reed is a highly competitive plant that is capable of rapid growth and spread, and displaces native species, reduces biodiversity, offers little value for wildlife and chokes waterways. Common reed can form very dense impenetrable monospecific stands that may exclude native vegetation and not provide ideal shelter or food for wildlife. Common reed stems can trap sediments, causing the waterbody to become increasingly shallow. Given the invasive nature of common reed to dominate ecosystems and upset natural habitat, it is important to curtail their colonization. However, controlling common reed can be difficult as their rhizomes (underground roots) can extend down over 2 meters and they readily regenerate from their root systems after cutting. The objective of the treatment program would be to control and potentially eradicate *Phragmites* from Sassaquin Pond allowing for a recolonization of the area by more desirable,

native emergent plants, which would increase species diversity and richness and the overall habitat value of the pond.

#### 4.2.1 Vegetation Survey

A survey to identify areas of common reed growing in and around the pond was conducted on December 3, 2021, by Chance Perks (New Bedford Conservation Commission Agent) with assistance from Magdalena Lofstedt (Wetland Scientist, CDM Smith Inc.). The result of that survey is shown on Sheet 1 in Attachment E. A total of two larger stands of common reed were identified, one on the pond's northern shore (identified as Phragmites Area North 5 on Plan A, Sheet 1 in Attachment E) and the other on the southern shore (identified as South Phragmites South on Plan C, Sheet 1). The stand on the northern shore is a monolithic stand; however, the southern stand is mixed with narrow leaved cattails (*Typha angustifolia*). In addition, small pockets/individual plants were identified along the northern (identified as Phragmites Areas North 1, 2, 3, and 4 on Plan A, Sheet 1) and western shore (identified as Phragmites Area West on Plan B, Sheet 1).

#### 4.2.2 Proposed Herbicide Treatment Method

Solitude Lake Management will be contracted by the City to perform the herbicide application by foliar treatment for 2 consecutive years. The Phragmites growth at each identified site will be selectively sprayed with Clearcast (imazamox) herbicide at a rate of 2.0 qts./ac. in a 2.0% solution. This product has proven to be very effective at controlling invasive Phragmites growth throughout the northeast in a variety of different habitats. The common reed plants will be selectively treated using low-volume backpack type sprayers with cone-shaped nozzles followed by cutting. The low-volume backpack type sprayers deliver fine spray droplets that mitigates the potential for mist or "drift." Careful plant specific application techniques allow for species and area selective control of common reed.

The Clearcast applications will be scheduled for a day with suitable weather forecast (i.e., no rain or excessive wind). Treatments will be targeted once the plants have fully matured and reached full inflorescence (flower) in late summer/fall. Treatments will be scheduled for a day between Labor Day and mid-October. This facilitates optimal translocation of the herbicide into the plant's extensive rhizome network. Clearcast is a systemic acting herbicide that can provide multiple seasons of effective plant control.

After the first year of Clearcast application, the Phragmites stalks will be manually on foot. Cutting will be done using reciprocating cutters (hedge trimmers). Access to the Phragmites patches is proposed to be completed from the adjacent roadway; access locations are shown on Plans A, B, and D on Sheet 1 in Attachment E. A right of entry will be required from the property owner to complete this access which will be obtained by the City. All cut material will be removed to the extent possible and disposed of off-site. There will be no excavation and removal of sediments.

An estimated 85-95% of the targeted vegetation will be controlled following the initial application. Treatment in 2nd consecutive year will be required to control remaining Phragmites and any regrowth. A similar approach will be used as in the first year with Solitude completing the removal. In subsequent years, the patches will need to be monitored for any growth. Any



additional removal and management of the patches will be limited to minor hand cutting and removal by either City staff or residents adjacent to and around the pond.

The following precaution should be followed when using Clearcast (Note: All work completed by Solitude will be under the direction of the City of New Bedford Department of Public Infrastructure):

- To prevent adverse effects on landscaped areas, water treated with Clearcast Herbicide may not be used for irrigation purposes unless the concentration is below 50 µg/L.
- Water from still or quiescent water bodies that received foliar applications at rates of  $\leq 2$  quarts per acre may be used for irrigation 24 hours after application.
- When making applications along shorelines where desirable plants may be present, caution should be exercised to avoid spray contact with their foliage or spray application to the soil in which they are rooted.
- Shoreline plants that have roots that extend into the water in an area where the herbicide has been applied generally will not be adversely affected by uptake of the herbicide from the water.

## 4.3 Limited Impervious Area Removal

### 4.3.1 Summary of Work

Impervious area is correlated with negative impacts on water resources such as increased flood peaks, pollutant levels, channel and bank erosion, reduced groundwater recharge, and aquatic life habitat impairment. Removing extraneous impervious area in the Sassaquin Pond watershed reduces direct discharge of sediment load and pollutants to the pond. As part of the water quality improvements, the City is proposing to remove two asphalt drainage swales on the north shore of the pond and an old, paved roadway on the west shore of the pond, reducing impervious area by approximately 1,235 square feet. The asphalt swales are proposed to be replaced with naturalized bioswales. All three locations are on privately owned land and will require a right-of-entry form to access and complete the work.

*Impervious Drainage Swale 1 (SW-1) (Sassaquin Ave. at Thrush Street):* Approximately 4.5 ft by 36.5 ft of impervious area will be removed and replaced with a new bioswale as shown on Sheet 2 in Attachment E. The eroded shoreline at this location will also be reconstructed. A detail of the proposed bioswale is shown on the drawings in Attachment E.

*Impervious Drainage Swale 2 (SW-2) (across from 1288 and 1296 Sassaquin Ave.):* Approximately 3.5 ft by 20 ft of impervious area will be removed and replaced with a new bioswale as shown on Sheet 2 in Attachment E. A detail of the proposed bioswale is shown on in the drawings in Attachment E. The fallen fence and an existing 21-inch diameter tree will also be removed at this location.

*Former Paved Roadway Removal:* Approximately 1,000 sf of impervious area will be removed at this location and restored to a vegetated grassy area by finish grading with a minimum of 6 inches of topsoil and seeding with an erosion control seed mixture (see Plan D, Sheet 1 in Attachment E).

### 4.3.2 Approach

It is expected that the work to remove the existing bituminous concrete impervious area swales and roadway will be done using a mini-excavator, excavator and/or bobcat to remove the material. Any materials removed will be properly disposed of. In some locations, due to access issues, hand removal may be required.

To facilitate the work, minor tree pruning is anticipated. This will mitigate damage to the existing vegetation during the removal process. All tree pruning will be overseen by the City of New Bedford Arborist. Full tree removal is not anticipated to be required.

It is expected that the impervious material will be excavated to a minimum of 6-in below grade to remove both the bituminous concrete and the underlying support layer. Additional removal may be required depending on the depth of underlying subgrade. Once the bituminous concrete is removed it will be immediately placed into a dump truck and hauled off site; no storage of excavated material will occur on site. The site will then be loamed and seeded and/or vegetated to construct a bioswale as detailed on the drawings. See mix and loaming specifications are also included on the drawings. The work is expected to be completed by City crews or by the City's on-call contractor under the direction of the City of New Bedford.

## 5.0 Mitigation Measures

The potential for fish kill is possible from the alum treatment; however, it has been the experience of most application firms that fish kills resulting from alum applications are very rare. The pH will be monitored during the treatment process and the levels of the buffering solution can be adjusted to handle the pH alteration. The portion of Sassaquin Pond to be treated is limited (58% of the pond) and the treatment will use sodium aluminate for pH buffering it is unlikely that there would be exceedances of pH standards during treatment leading to a fish kill. However, should the treatment applicators note the death of up to 10 fish at any time during the treatment process, all operations will cease immediately, and measured will be taken to stabilize pH or any other factor which could be resulting in a fish die off. All work completed by Solitude will be under the direction of both the City of New Bedford and CDM Smith.

No long-term adverse impacts to wetland resource areas are anticipated to occur as a result of the water quality improvement projects. The following precautions will be taken to prevent impacts to wetland resource areas.

### Construction Period

Please refer to Sheet 4 in Attachment E for details on the erosion and sedimentation control measures.

- Staked fiber rolls will be installed at the limit of work prior to commencement of construction to prevent the transport of sediment and debris to Sassaquin Pond during the impervious removal in the buffer zone. A stockpile of fiber rolls will be stored in an easily accessible location for routine maintenance and emergency repairs. The fiber roll barrier will be inspected weekly and after all storm events and repaired as needed. The barrier will be left in place until the area is permanently stabilized.

- Stockpiled soils within 100-foot Buffer Zones will be enclosed within a line of staked fiber rolls to prevent erosion or siltation into resource areas.
- Work will proceed as rapidly as possible. Limiting the exposure time of disturbed soils to wind and precipitation will minimize the soil erosion and subsequent sedimentation.

### Spill Control Measures

- An equipment storage and refueling area will be established in the project vicinity. All overnight storage of construction equipment and vehicles, refueling and light maintenance activities will occur in this area.
- Spill containment equipment (e.g., oil absorbent pads, oil absorbent materials, containment booms, shovels, etc.) will be stored in the equipment storage and refueling area in an easily accessible manner for use in the clean-up of accidental releases of fuel, hydraulic fluid, or other hazardous materials. Should there be an accidental release the proper authorities will be notified in accordance with all applicable federal, state, and local laws.
- To minimize the possibility of hydraulic fluid leaks, all hydraulic lines on all construction equipment and vehicles will be inspected at the end of each workday. If any excessive wear or leakage is observed, the line will be repaired prior to further use. In addition, a supply of oil absorbent materials (i.e., pads, "speedy dry," and/or booms) will be maintained with the equipment at the work area for immediate deployment in the event of an accidental release of fuel, hydraulic fluid, oil, etc.
- Any oil, hydraulic fluid, or other hazardous materials will be stored in original containers; fuels will be stored in tightly sealed containers which are clearly marked; and all such materials will be stored under a roof or in a covered enclosure.

### Post Construction Measures

The following summary of mitigation measures will be implemented to restore any areas affected by short-term impacts that occur within the buffer zones:

- If seeding occurs outside of the growing season, temporary stabilization measures (i.e., mulching or erosion control blankets) will be used to prevent erosion until the area can be seeded during the following growing season.
- All disturbed soils outside of the limits of work will be restored to pre-construction grades and seeded with an erosion control seed mixture; and
- The fiber roll barrier will not be removed until a vegetative cover dense enough to prevent erosion is established.

## 6.0 Compliance with Performance Standards in 310 CMR 10.00

The following discussion documents how the proposed project complies with the performance standards for LUW and Inland Bank.

## 6.1 Land Under Water (LUW)

Work proposed in LUW consists of applying liquid aluminum sulfate and liquid sodium aluminate for the alum treatment as described in Section 4.1 above, selectively applying herbicide to areas of common reed followed by cutting of stalks, and removal of accumulated sediment within an area of approximately 20 sf at the terminus of Impervious Drainage Swale 2. No other excavation and disturbance of sediment is proposed. The provisions 310 CMR 10.56(4) apply:

a. *Where the presumption set forth in 310 CMR 10.56(3) is not overcome, any proposed work within Land Under Water Bodies and Waterways shall not impair the following:*

1. *The water carrying capacity within the defined channel, which is provided by said land in conjunction with the banks.*

There are no channels within Sassaquin Pond; therefore, this performance standard is not applicable to the proposed project.

2. *Ground and surface water quality.*

The proposed project will not result in impacts to the groundwater quality and will only result in temporary impacts to aluminum and potentially pH in a portion of Sassaquin Pond. In addition, the proposed alum application will result in significant improvements to the water quality of Sassaquin Pond through the inactivation of phosphorus within the water column and in the sediments of the pond, thus diminishing the likelihood of harmful cyanobacteria blooms. It is also anticipated that the removal of common reed within the pond limits will improve the water quality.

3. *The capacity of said land to provide breeding habitat, escape cover and food for fisheries.*

No permanent physical impacts to LUW are proposed as the part of the alum treatment nor the common reed removal and management and limited sediment removal. The proposed work will not diminish the capacity of the LUW to support breeding, escape cover, or food for fisheries. The alum application could result in a temporary change in water chemistry, namely a potential drop in the pH of the pond. Methods of preventing such a shift in pH within Sassaquin Pond can be addressed through use of sodium aluminate for buffering during the application process and through monitoring of water quality before, during, and within the weeks following the alum application.

4. *The capacity of said land to provide important wildlife habitat functions. 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 may be permitted if they will have no adverse effects on wildlife habitat, as determined by procedures established under 310 CMR 10.60.*

The proposed alum application will occur over roughly 58% of Sassaquin Pond. Sassaquin Pond can be categorized as a Class B waterbody by MassDEP, and the average temperature profile indicates that the waterbody is suitable for a warm water fishery. However, as a designated

Category 5 Impaired Waterbody (from the 2016 Massachusetts Integrated List), there are factors which diminish the quality of wildlife habitat for both the organisms living within/around the pond and migratory birds, namely due to the frequent occurrence of harmful cyanobacteria blooms. This project seeks to improve the ecosystem within and surrounding Sassaquin Pond through an alum application. The only potential direct impact to wildlife would be an unlikely fish die off to do a sudden change in pH. However, with pH monitoring and buffering this is highly unlikely. To ensure minimal impacts to fish, fish die off is monitored throughout the project and the project can be stopped if more than 10 fish are found dead during treatment.

The eradication of common reed is expected to improve the wildlife habitat as native species naturally colonize the treatment areas.

5. *Work on a stream crossing shall be presumed to meet the performance standard set forth in 310 CMR 10.56(4)(a) provided the work is performed in compliance with the Massachusetts Stream Crossing Standards by consisting of a span or embedded culvert in which, at a minimum, the bottom of a span structure or the upper surface of an embedded culvert is above the elevation of the top of the bank, and the structure spans the channel width by a minimum of 1.2 times the bankfull width. This presumption is rebuttable and may be overcome by the submittal of credible evidence from a competent source. Notwithstanding the requirements of 310 CMR 10.56(4)(a)4., the impact on Land under Water Bodies and Waterways caused by the installation of a stream crossing is exempt from the requirement to perform a habitat evaluation in accordance with the procedures established under 310 CMR 10.60.*

A stream crossing is not proposed; therefore, this performance standard is not applicable to the proposed project.

*b) Notwithstanding the provisions of 310 CMR 10.56(4)(a), the issuing authority may issue an Order in accordance with M.G.L. c. 131, § 40 to maintain or improve boat channels within Land under Water Bodies and Waterways when said work is designed and carried out using the best practical measures so as to minimize adverse effects such as the suspension or transport of pollutants, increases in turbidity, the smothering of bottom organisms, the accumulation of pollutants by organisms or the destruction of fisheries habitat or nutrient source areas.*

There are no designated boat channels within Sassaquin Pond therefore, this performance standard is not applicable to the proposed project.

*c) Notwithstanding the provisions of 310 CMR 10.56(4)(a) or (b), no project may be permitted which will have any adverse effect on specified habitat sites of rare vertebrate or invertebrate species, as identified by procedures established under 310 CMR 10.59.*

There are no known rare vertebrate or invertebrate species mapped under Estimated or Priority Habitat of Rare Species (according to 2022 Mass GIS data layers) within the boundary of the proposed project or within .25 miles of the proposed project site. Therefore, this performance standard is not applicable to the proposed project.

## 6.2 Inland Bank

Work in Inland Bank consists of applying herbicide treatment and cutting stalk of common reed, and bituminous concrete removal and new bioswale construction. The provisions 310 CMR 10.54(4) apply:

a. *Where the presumption set forth in 310 CMR 10.54(3) is not overcome, any proposed work on a Bank shall not impair the following:*

1. *The physical stability of the Bank.*

The physical stability of approximately 14 linear feet of Bank will be temporarily altered as part of removing Impervious Drainage Channel SW-1 and SW-2 and the construction of the naturalized bioswales. The restoration will be as shown on the Sheet 5 in Attachment E.

2. *The water carrying capacity of the existing channel within the Bank.*

The hydraulic carrying capacity of the drainage swales will not be reduced through the construction of the bioswales. The new bioswales are intended to reduce velocity of runoff into the pond and improve water quality. Riprap will be used at targeted locations to further mitigate velocity of runoff down the embankment into the pond.

3. *Ground water and surface water quality.*

Erosion and sediment controls (i.e., fiber rolls and silt curtains) will be installed prior to the commencement of work and will not be removed until the work area is stabilized. It is not anticipated that the temporary alteration to Inland Bank will adversely affect ground water and surface water quality.

4. *The capacity of the Bank to provide breeding habitat, escape cover and food for fisheries.*

The temporarily altered shoreline will be restored to naturalized bioswales, final graded with a minimum of 6 inches of topsoil, and planted with sedges, buttonbush (*Cephalanthus occidentalis*), and inkberry (*Ilex glabra*) as shown on detail on Sheet 5 in Attachment E.

5. *The capacity of the Bank to provide important wildlife habitat functions. 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 50 feet (whichever is less) of the length of the bank 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 may be permitted if they will have no adverse effects on wildlife habitat, as determined by procedures contained in 310 CMR 10.60.*

A wildlife habitat evaluation is not required since the proposed water quality improvement projects will temporarily alter less than 50 linear feet of bank.

6. *Work on a stream crossing shall be presumed to meet the performance standard set forth in 310 CMR 10.54(4)(a) provided the work is performed in compliance with the Massachusetts*

*Stream Crossing Standards by consisting of a span or embedded culvert in which, at a minimum, the bottom of a span structure or the upper surface of an embedded culvert is above the elevation of the top of the bank, and the structure spans the channel width by a minimum of 1.2 times the bankfull width. This presumption is rebuttable and may be overcome by the submittal of credible evidence from a competent source. Notwithstanding the requirement of 310 CMR 10.54(4)(a)5., the impact on bank caused by the installation of a stream crossing is exempt from the requirement to perform a habitat evaluation in accordance with the procedures contained in 310CMR 10.60.*

A stream crossing is not proposed; therefore, this performance standard is not applicable to the proposed project.

**ATTACHMENT B**  
**ABUTTER NOTIFICATION INFORMATION**



**NOTICE TO ABUTTERS UNDER THE CITY OF NEW BEDFORD WETLANDS ORDINANCE  
AND THE MA WETLANDS PROTECTION ACT**

The New Bedford Department of Public Infrastructure completed a watershed protection plan for Sassaquin Pond in September 2021, in partnership with the Office of the Mayor, the City Council, councilors Markey and Morad, and the Sassaquin Pond Betterment Association. The plan [can be viewed online](#) and details methods to improve water quality in the pond. The plan includes specific projects to reduce pollutants in the pond, along with improved maintenance activities. The work began in 2021 with increased maintenance, ramped up in 2022, and will span several years.

This notification concerns several initial activities proposed for 2022 that require approval, in accordance with the City of New Bedford Wetlands Ordinance (New Bedford Code of Ordinances Sections 15-101 through 15-112) and the MA Wetlands Protection Act (M.G.L. c. 131 S.40).

The City of New Bedford (City) has therefore filed a Notice of Intent with the New Bedford Conservation Commission, seeking permission to complete the following water quality improvements projects:

1. Alum treatment in spring 2022
2. Common reed (*Phragmites australis*) removal and management in fall 2022
3. Limited impervious area removal in the Pineland Park reservation at the south end of the pond
4. Two asphalt drainage removals, at the south and southwestern sides of the pond, and replacement with bioswales

The proposed activities will temporarily alter an area subject to protection under the City of New Bedford Wetlands Ordinance and the MA Wetlands Protection Act.

The activity is proposed on Sassaquin Avenue, at Lot 438 on Assessors Map 138.

Copies of the Notice of Intent may be examined at the New Bedford Conservation Commission office, in Room 304 of New Bedford City Hall at 133 William St., between 8 a.m. and 4 p.m., Monday through Friday.

For more information contact the New Bedford Conservation Commission at 508-991-6188. You may also contact the commission for more information about the watershed protection plan, the City of New Bedford Wetlands Ordinance, or the MA Wetlands Protection Act.

Copies of the Notice of Intent may be obtained from either (check one) the applicant \_\_\_\_ or the applicant's representative \_\_\_\_ by calling 617-452-6597, between 8 a.m. and 4 p.m., Monday through Friday.

A public hearing will be held about the proposed watershed protection activities.

Call the Conversation Commission at 508-991-6188 between 8 a.m. and 4 p.m., Monday through Friday, for details about the hearing's date and location.

Notice of the public hearing also will be posted in City Hall not less than forty-eight (48) hours in advance of the hearing, and will be published in The Standard-Times newspaper at least five (5) days in advance.



*City of New Bedford*  
**REQUEST for a CERTIFIED ABUTTERS LIST**

This information is needed so that an official abutters list as required by MA General Law may be created and used in notifying abutters. You, as applicant, are responsible for picking up and paying for the certified abutters list from the assessor's office (city hall, room #109).

SUBJECT PROPERTY			
MAP #	136A	LOT(S)#	838
ADDRESS: 1113 Tobey Street			
OWNER INFORMATION			
NAME: Yvonne A. Fortin			
MAILING ADDRESS: 1113 Tobey Street New Bedford, MA 02745			
APPLICANT/CONTACT PERSON INFORMATION			
NAME (IF DIFFERENT): CDM Smith Inc. Attn. Magdalena Lofstedt			
MAILING ADDRESS (IF DIFFERENT): 75 State Street, Suite 701 Boston, MA 02109			
TELEPHONE #	(617) 452-6597		
EMAIL ADDRESS:	lofstedtmh@cdmsmith.com		
REASON FOR THIS REQUEST: <i>Check appropriate</i>			
<input type="checkbox"/>	ZONING BOARD OF APPEALS APPLICATION		
<input type="checkbox"/>	PLANNING BOARD APPLICATION		
<input checked="" type="checkbox"/>	CONSERVATION COMMISSION APPLICATION		
<input type="checkbox"/>	LICENSING BOARD APPLICATION		
<input type="checkbox"/>	OTHER ( <i>Please explain</i> ):		

Once obtained, the Certified List of Abutters must be attached to this Certification Letter.

Submit this form to the Department of City Planning, Room 303 in City Hall, 133 William Street, or Email to [Angela.Goncalves@newbedford-ma.gov](mailto:Angela.Goncalves@newbedford-ma.gov). The applicant is responsible for picking up and paying for the certified abutters list from the Assessor's Office (city hall, room #109).

**Official Use Only:**

As Administrative Assistant to the City of New Bedford's Board of Assessors, I do hereby certify that the names and addresses as identified on the attached "abutters list" are duly recorded and appear on the most recent tax.

**Michael J. Motta**

Printed Name

**Michael Motta**

Signature

Digitally signed by Michael Motta  
Date: 2022.01.31 15:06:20 -05'00'

**01/31/2022**

Date

Amount Due

\$5.00

Date Paid

01/31/2022

Confirmation Number

3939365

## Account Information

**Payment Type:** Permits  
**Reference Number:** MULTI PARCELS  
**Phone Number:** 6174485562  
**Email Address:** lofstedtjh@cdsmith.com

Your confirmation number is: **3939365**

## Payment Information

**Payment Date:** 1/31/2022  
**Payment Amount:** \$26.00  
**Convenience Fee:** \$1.95  
**Total Payment:** \$27.95

Your payment will post to the account listed below. It takes approximately two business days to post your payment to the account. Your payment date and time are equal to the time you completed this transaction as indicated by the Digital Time Stamp below.

**Digital Time Stamp:**  
01/31/2022 13:37:18  
[EST]

**Payment Method:**  MasterCard

**Card Number:** XXXXXXXXXXXXXXX9664

**Expiration Date:** 0722

MAGDALENA LOFSTEDT

**Billing Zip Code:** 02109

If an email address was provided, your confirmation email will be sent from [marketingcloud@valuepaymentsystems.com](mailto:marketingcloud@valuepaymentsystems.com). Please have payer sign below and retain merchant copy for your records



Signature X

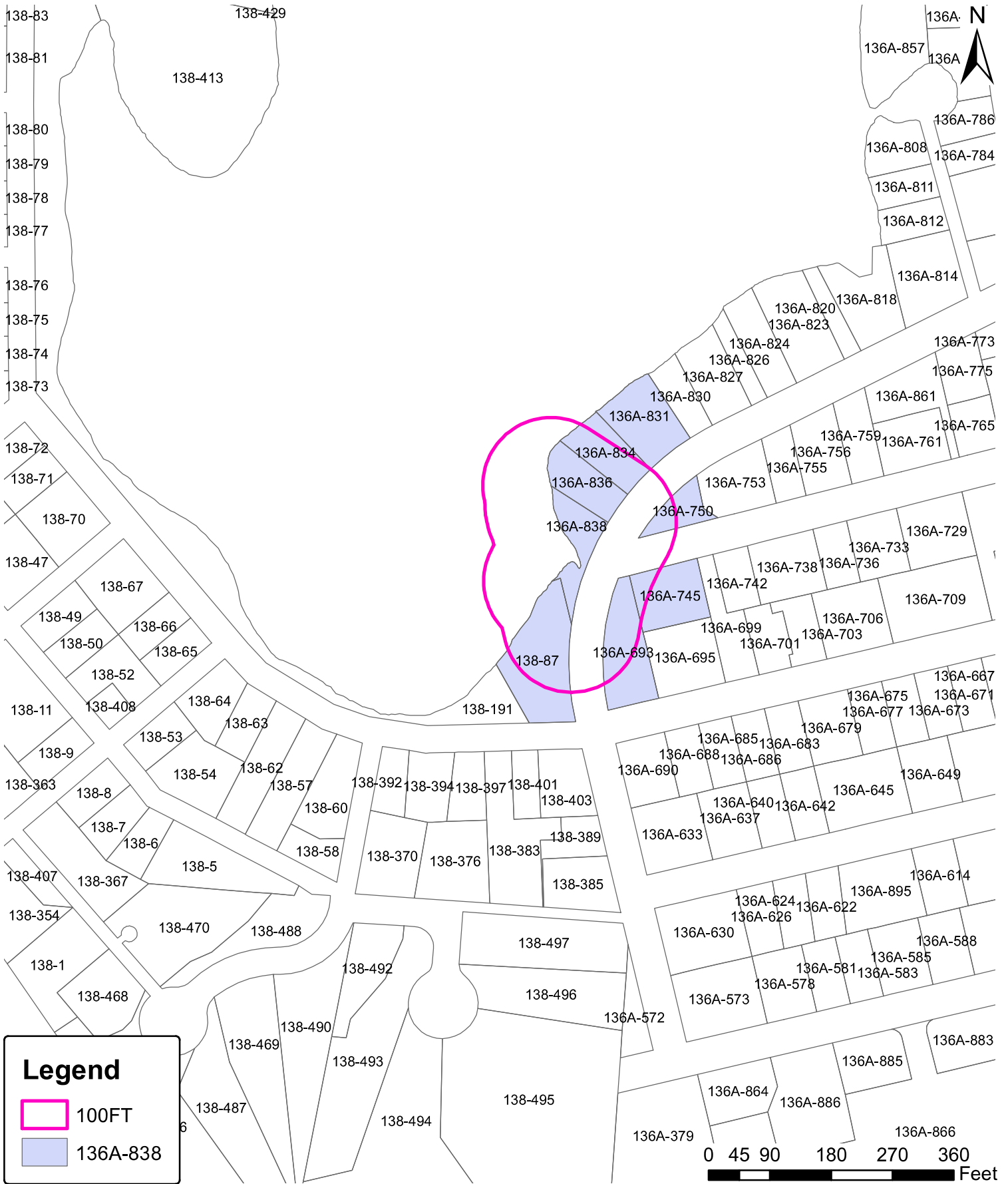
January 11, 2022

Dear Applicant,



Please find below the List of Abutters within 100 feet of the property known as 1113 Tobey Street (Map: 136A, Lot: 838). The current ownership listed herein must be checked and verified by the City of New Bedford Assessor's Office. Following said verification, the list shall be considered a Certified List of Abutters.

Please note that multiple listed properties with identical owner name and mailing address shall be considered duplicates and shall require only 1 mailing. Additionally, City of New Bedford-Owned properties shall not require mailed notice.

<u>Parcel</u>	<u>Location</u>	<u>Owner and Mailing Address</u>
138-87	NS TOBEY ST	CITY OF NEW BEDFORD, FRANKLIN GURNEY BEACH 131 WILLIAM ST NEW BEDFORD, MA 02740
136A-745	SS JUNE ST	CONTOIS CHRISTOPHER W, CONTOIS TIFFANY 1102 TOBEY ST NEW BEDFORD, MA 02745
136A-838	1113 TOBEY ST	FORTIN YVONNE A, C/O YVONNE A SILVIA 1113 TOBEY STREET NEW BEDFORD, MA 02745
136A-750	1102 TOBEY ST	CONTOIS CHRISTOPHER W, CONTOIS TIFFANY 1102 TOBEY ST NEW BEDFORD, MA 02745
136A-836	1111 TOBEY ST	OLIVER KATHERINE, 1111 TOBEY ST NEW BEDFORD, MA 02745
136A-693	1143 SASSAQUIN AVE	DESILVA ANDREW A, 1143 SASSAQUIN AVENUE NEW BEDFORD, MA 02745
136A-831	1099 TOBEY ST	FOURNIER ROBERT D, 1099 TOBEY ST NEW BEDFORD, MA 02745
136A-834	1105 TOBEY ST	TROMBLY MARIANNE, C/O MARIANNE WELLS P O BOX 9528 WARWICK, RI 02889



**Legend**

-  100FT
-  136A-838

City of New Bedford, Massachusetts  
Department of City Planning

Parcel within 100FT





*City of New Bedford*  
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OWNER INFORMATION			
NAME: Yvonne A. Fortin			
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APPLICANT/CONTACT PERSON INFORMATION			
NAME (IF DIFFERENT): CDM Smith Inc. Attn. Magdalena Lofstedt			
MAILING ADDRESS (IF DIFFERENT): 75 State Street, Suite 701 Boston, MA 02109			
TELEPHONE #	617-452-6597		
EMAIL ADDRESS:	lofstedtmh@cdmsmith.com		
REASON FOR THIS REQUEST: <i>Check appropriate</i>			
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<input checked="" type="checkbox"/>	CONSERVATION COMMISSION APPLICATION		
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<input type="checkbox"/>	OTHER ( <i>Please explain</i> ):		

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**Michael J. Motta**

Printed Name

Signature

Date



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SUBJECT PROPERTY			
MAP #	138	LOT(S)#	91
ADDRESS: ES Sassaquin Avenue			
OWNER INFORMATION			
NAME: Clarence E. Brehaut			
MAILING ADDRESS: 364 Sassaquin Avenue New Bedford, MA 02745			
APPLICANT/CONTACT PERSON INFORMATION			
NAME (IF DIFFERENT): CDM Smith Inc. Attn. Magdalena Lofstedt			
MAILING ADDRESS (IF DIFFERENT): 75 State Street, Suite 701 Boston, MA 02109			
TELEPHONE #	(617) 452-6597		
EMAIL ADDRESS:	lofstedtmh@cdmsmith.com		
REASON FOR THIS REQUEST: <i>Check appropriate</i>			
<input type="checkbox"/>	ZONING BOARD OF APPEALS APPLICATION		
<input type="checkbox"/>	PLANNING BOARD APPLICATION		
<input checked="" type="checkbox"/>	CONSERVATION COMMISSION APPLICATION		
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**Michael J. Motta**

Printed Name

**Michael Motta**

Signature

Digitally signed by Michael Motta  
Date: 2022.01.31 15:05:18 -05'00'

**01/31/2022**

Date

Amount Due

\$5.00

Date Paid

01/31/2022

Confirmation Number

3939365

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**Digital Time Stamp:**  
 01/31/2022 13:37:18  
 [EST]

**Payment Method:** 

**Card Number:** XXXXXXXXXXXXX9664

**Expiration Date:** 0722

MAGDALENA LOFSTEDT

**Billing Zip Code:** 02109

If an email address was provided, your confirmation email will be sent from [marketingcloud@valuepaymentsystems.com](mailto:marketingcloud@valuepaymentsystems.com). Please have payer sign below and retain merchant copy for your records

Signature X





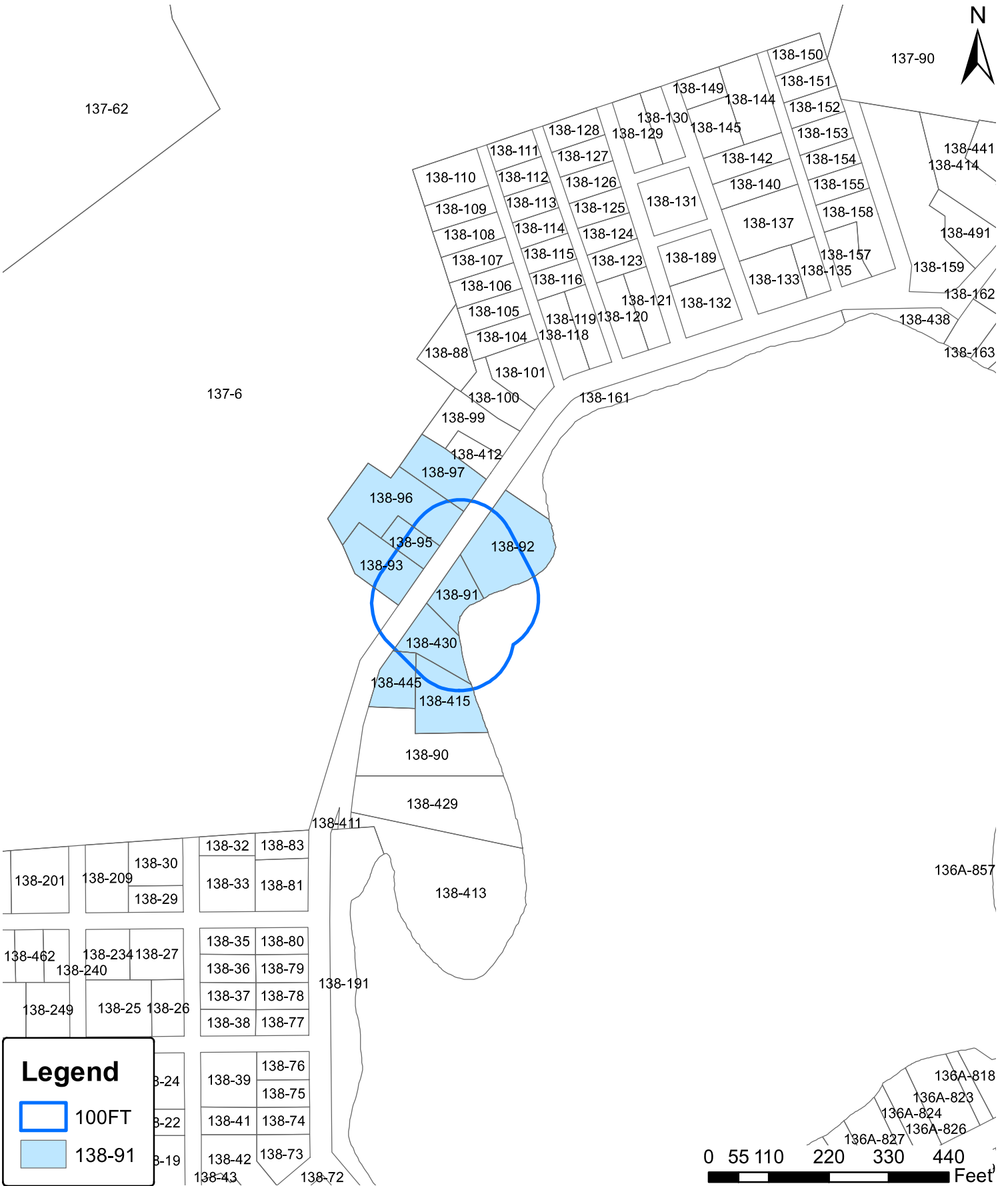
January 11, 2022

Dear Applicant,

Please find below the List of Abutters within 100 feet of the property known as ES Sassaquin Avenue (Map: 138, Lot: 91). The current ownership listed herein must be checked and verified by the City of New Bedford Assessor's Office. Following said verification, the list shall be considered a Certified List of Abutters.

Please note that multiple listed properties with identical owner name and mailing address shall be considered duplicates and shall require only 1 mailing. Additionally, City of New Bedford-Owned properties shall not require mailed notice.

<u>Parcel</u>	<u>Location</u>	<u>Owner and Mailing Address</u>
138-93	1354 SASSAQUIN AVE	MARQUES SONYA L, 1354 SASSAQUIN AVENUE NEW BEDFORD, MA 02745
138-95	1360 SASSAQUIN AVE	FORTIER SHEILA GAIL 1360 SASSAQUIN AVENUE NEW BEDFORD, MA 02745
138-430	1353 SASSAQUIN AVE	CORRIGAN DOUGLAS L, CORRIGAN LEONA LEBLANC L 18 DANIELLE STREET ACUSHNET, MA 02743
138-415	1351 SASSAQUIN AVE	CORRIGAN DOUGLAS L, CORRIGAN LEONA L 1351 SASSAQUIN AVE NEW BEDFORD, MA 02745
138-445	1350 SASSAQUIN AVE	ALMEIDA JEFFREY M, 1350 SASSAQUIN AVE NEW BEDFORD, MA 02745
138-91	ES SASSAQUIN AVE	BREHAUT CLARENCE E, C/O NANCY R LEWIN 1364 SASSAQUIN AVENUE NEW BEDFORD, MA 02745
138-92	1377 SASSAQUIN AVE	AUDETTE DENNIS W, AUDETTE MARIE I 1377 SASSAQUIN AVE NEW BEDFORD, MA 02745
138-97	1378 SASSAQUIN AVE	GAUDETTE DONALD R JR, 1378 SASSAQUIN AVE NEW BEDFORD, MA 02745
138-96	1364 SASSAQUIN AVE	LEWIN NANCY R, 1364 SASSAQUIN AVENUE NEW BEDFORD, MA 02745



City of New Bedford, Massachusetts  
Department of City Planning

Parcel within 100FT





*City of New Bedford*  
**REQUEST for a CERTIFIED ABUTTERS LIST**

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SUBJECT PROPERTY			
MAP #	Plot 138	LOT(S)#	Lot 91
ADDRESS: ES Sassaquin Avenue			
OWNER INFORMATION			
NAME: Clarence E. Brehaut			
MAILING ADDRESS: c/o Nancy R. Lewin 364 Sassaquin Avenue New Bedford, MA 02745			
APPLICANT/CONTACT PERSON INFORMATION			
NAME (IF DIFFERENT): CDM Smith Inc. Attn. Magdalena Lofstedt			
MAILING ADDRESS (IF DIFFERENT): 75 State Street, Suite 701 Boston, MA 02109			
TELEPHONE #	617-452-6597		
EMAIL ADDRESS:	lofstedtmh@cdmsmith.com		
REASON FOR THIS REQUEST: <i>Check appropriate</i>			
<input type="checkbox"/>	ZONING BOARD OF APPEALS APPLICATION		
<input type="checkbox"/>	PLANNING BOARD APPLICATION		
<input checked="" type="checkbox"/>	CONSERVATION COMMISSION APPLICATION		
<input type="checkbox"/>	LICENSING BOARD APPLICATION		
<input type="checkbox"/>	OTHER ( <i>Please explain</i> ):		

Once obtained, the Certified List of Abutters must be attached to this Certification Letter.

Submit this form to the Planning Division Room 303 in City Hall, 133 William Street. You, as applicant, are responsible for picking up and paying for the certified abutters list from the assessor's office (city hall, room #109).

**Official Use Only:**

As Administrative Assistant to the City of New Bedford's Board of Assessors, I do hereby certify that the names and addresses as identified on the attached "abutters list" are duly recorded and appear on the most recent tax.

**Michael J. Motta**

Printed Name

Signature

Date



*City of New Bedford*  
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SUBJECT PROPERTY			
MAP #	138	LOT(S)#	161
ADDRESS: ES Sassaquin Avenue			
OWNER INFORMATION			
NAME: Leonard Gurney			
MAILING ADDRESS: 1398 R. Sassaquin Avenue New Bedford, MA 02745			
APPLICANT/CONTACT PERSON INFORMATION			
NAME (IF DIFFERENT): CDM Smith Inc. Attn. Magdalena Lofstedt			
MAILING ADDRESS (IF DIFFERENT): 75 State Street, Suite 701 Boston, MA 02109			
TELEPHONE #	(617) 452-6597		
EMAIL ADDRESS:	lofstedtmh@cdmsmith.com		
REASON FOR THIS REQUEST: <i>Check appropriate</i>			
<input type="checkbox"/>	ZONING BOARD OF APPEALS APPLICATION		
<input type="checkbox"/>	PLANNING BOARD APPLICATION		
<input checked="" type="checkbox"/>	CONSERVATION COMMISSION APPLICATION		
<input type="checkbox"/>	LICENSING BOARD APPLICATION		
<input type="checkbox"/>	OTHER ( <i>Please explain</i> ):		

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**Michael J. Motta**

Printed Name

**Michael Motta**

Signature

Digitally signed by Michael Motta  
Date: 2022.01.31 15:04:17 -05'00'

**01/31/2022**

Date

Amount Due

\$7.00

Date Paid

01/31/2022

Confirmation Number

3939365

## Account Information

**Payment Type:** Permits  
**Reference Number:** MULTI PARCELS  
**Phone Number:** 6174485562  
**Email Address:** lofstedtjh@cdsmith.com

Your confirmation number is: **3939365**

Your payment will post to the account listed below. It takes approximately two business days to post your payment to the account. Your payment date and time are equal to the time you completed this transaction as indicated by the Digital Time Stamp below.

## Payment Information

**Payment Date:** 1/31/2022  
**Payment Amount:** \$26.00  
**Convenience Fee:** \$1.95  
**Total Payment:** \$27.95

**Digital Time Stamp:**  
 01/31/2022 13:37:18  
 [EST]

**Payment Method:** 

**Card Number:** XXXXXXXXXXXXX9664

**Expiration Date:** 0722

MAGDALENA LOFSTEDT

**Billing Zip Code:** 02109

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Signature X

January 11, 2022

Dear Applicant,

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<u>Parcel</u>	<u>Location</u>	<u>Owner and Mailing Address</u>
138-99	1388 SASSAQUIN AVE	HANSMANN ARLENE T, 1388 SASSAQUIN AVENUE NEW BEDFORD, MA 02745
138-119	1410 SASSAQUIN AVE	POYANT ANDRE A, POYANT PHILLIP T LECOMTE CONSTANCE G 1410 SASSAQUIN AVENUE NEW BEDFORD, MA 02745
138-157	1458 SASSAQUIN AVE	JOHNSON RICHARD B, 1458 SASSAQUIN AVENUE NEW BEDFORD, MA 02745
138-120	1416 SASSAQUIN AVE	LABONTE STEPHEN A, LABONTE KARYN 1416 SASSAQUIN AVENUE NEW BEDFORD, MA 02745
138-121	1422 SASSAQUIN AVE	HARDIMAN MICHAEL M, BARITEAU LINDSEY M 1422 SASSAQUIN AVENUE NEW BEDFORD, MA 02745
138-92	1377 SASSAQUIN AVE	AUDETTE DENNIS W, AUDETTE MARIE I 1377 SASSAQUIN AVE NEW BEDFORD, MA 02745
138-97	1378 SASSAQUIN AVE	GAUDETTE DONALD R JR, 1378 SASSAQUIN AVE NEW BEDFORD, MA 02745
138-100	1392 SASSAQUIN AVE	HANSMANN RICHARD G, VEIGA SONIA 1392 SASSAQUIN AVE NEW BEDFORD, MA 02745
138-101	1398 SASSAQUIN AVE	CORREIA DOREEN J, KETCHIE ROBIN L, HANSMANN RICHARD G 1398 SASSAQUIN AVE NEW BEDFORD, MA 02745-2300
138-161	ES SASSAQUIN AVE	GURNEY LEONARD, C/O JAMES M GURNEY 1398 R SASSAQUIN AVE NEW BEDFORD, MA 02745
138-135	1450 SASSAQUIN AVE	ARMSTRONG JAN F, 15538 ARON CIRCLE PORT CHARLOTTE, FL 33981
138-118	1404 SASSAQUIN AVE	FERRO JORGE A JR, 1404 SASSAQUIN AVE NEW BEDFORD, MA 02745
138-133	1446 SASSAQUIN AVE	ARRUDA ANTHONY JR, ARRUDA RITA D 1446 SASSAQUIN AVE NEW BEDFORD, MA 02745

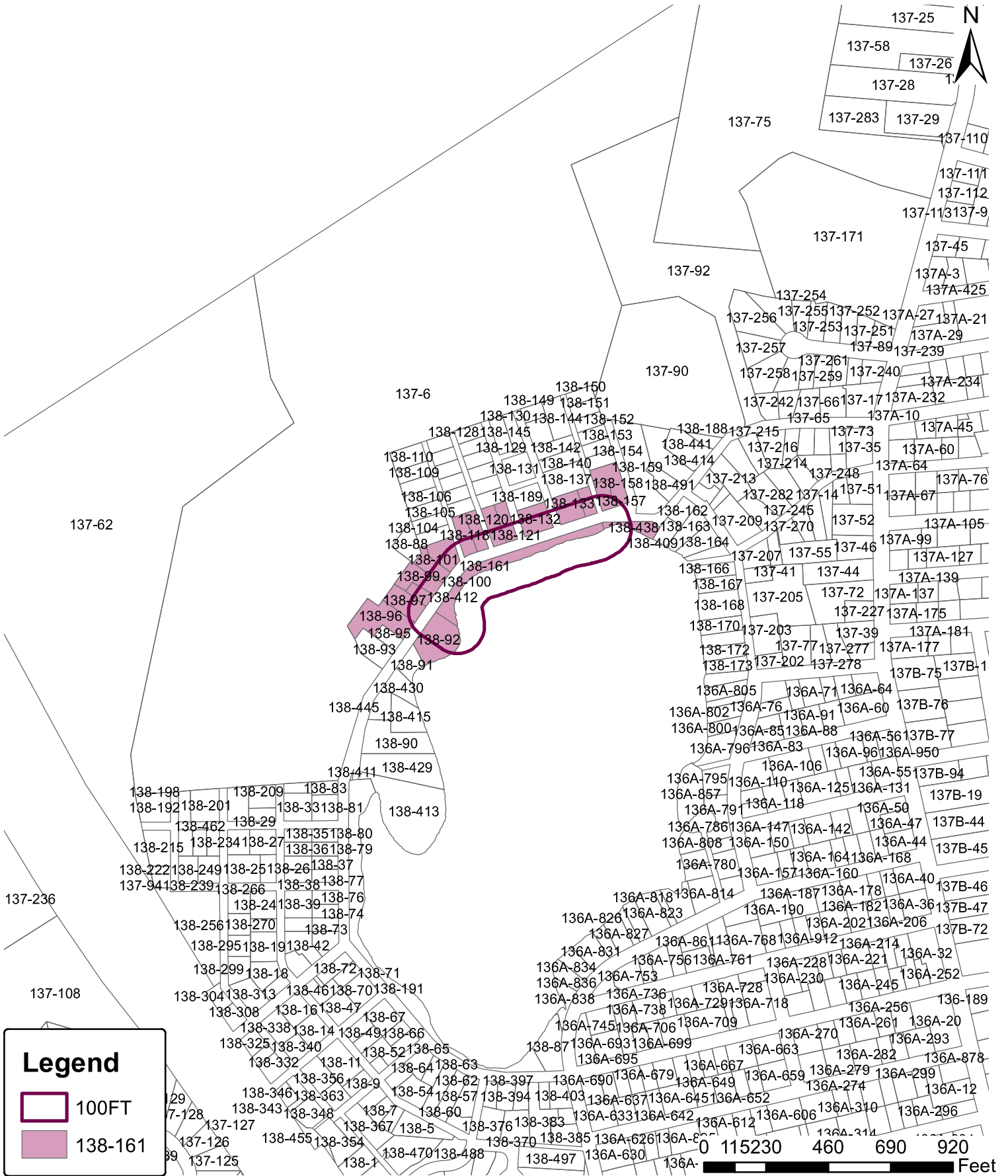
January 11, 2022

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<u>Parcel</u>	<u>Location</u>	<u>Owner and Mailing Address</u>
138-158	1464 SASSAQUIN AVE	POYANT MATTHEW J "TRUSTEE", POYANT FAMILY IRREVOCABLE TRUST (THE) 1464 SASSAQUIN AVE NEW BEDFORD, MA 02745-2312
138-412	1384 SASSAQUIN AVE	ARRUDA ANTHONY JR, ARRUDA RITA D 1446 SASSAQUIN AVE NEW BEDFORD, MA 02745
138-438	WS SASSAQUIN AVE	CITY OF NEW BEDFORD, 131 WILLIAM ST NEW BEDFORD, MA 02740
138-96	1364 SASSAQUIN AVE	LEWIN NANCY R, 1364 SASSAQUIN AVENUE NEW BEDFORD, MA 02745
138-132	1434 SASSAQUIN AVE	OSTIGUY MATTHEW J OSTIGUY LYNN M 41 WREN STREET NEW BEDFORD, MA 02745



City of New Bedford, Massachusetts  
Department of City Planning

Parcel within 100FT







*City of New Bedford*  
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SUBJECT PROPERTY			
MAP #	Plot 138	LOT(S)#	Lot 161
ADDRESS: ES Sassaquin Avenue			
OWNER INFORMATION			
NAME: Leonard Gurney			
MAILING ADDRESS: c/o James M. Gurney 1398 R. Sassaquin Avenue New Bedford, MA 02745			
APPLICANT/CONTACT PERSON INFORMATION			
NAME (IF DIFFERENT): CDM Smith Inc. Attn. Magdalena Lofstedt			
MAILING ADDRESS (IF DIFFERENT): 75 State Street, Suite 701 Boston, MA 02109			
TELEPHONE #	617-452-6597		
EMAIL ADDRESS:	lofstedtmh@cdmsmith.com		
REASON FOR THIS REQUEST: <i>Check appropriate</i>			
<input type="checkbox"/>	ZONING BOARD OF APPEALS APPLICATION		
<input type="checkbox"/>	PLANNING BOARD APPLICATION		
<input checked="" type="checkbox"/>	CONSERVATION COMMISSION APPLICATION		
<input type="checkbox"/>	LICENSING BOARD APPLICATION		
<input type="checkbox"/>	OTHER ( <i>Please explain</i> ):		

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**Michael J. Motta**

Printed Name

Signature

Date



*City of New Bedford*  
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SUBJECT PROPERTY			
MAP #	138	LOT(S)#	191
ADDRESS: ES Sassaquin Avenue			
OWNER INFORMATION			
NAME: Frey Michael F "TRUSTEE"			
MAILING ADDRESS: 1479 Morton Ave New Bedford, MA 02745			
APPLICANT/CONTACT PERSON INFORMATION			
NAME (IF DIFFERENT): CDM Smith Inc. Attn Magdalena Lofstedt			
MAILING ADDRESS (IF DIFFERENT): 75 State Street , Suite 701 Boston, MA 02109			
TELEPHONE #	(617) 452-6597		
EMAIL ADDRESS:	lofstedtmh@cdmsmith.com		
REASON FOR THIS REQUEST: <i>Check appropriate</i>			
<input type="checkbox"/>	ZONING BOARD OF APPEALS APPLICATION		
<input type="checkbox"/>	PLANNING BOARD APPLICATION		
<input checked="" type="checkbox"/>	CONSERVATION COMMISSION APPLICATION		
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**Michael J. Motta**

Printed Name

**Michael Motta**

Signature

Digitally signed by Michael Motta  
Date: 2022.01.31 15:02:58 -05'00'

**1/31/2022**

Date

Amount Due

\$9.00

Date Paid

01/31/2022

Confirmation Number

3939365

## Account Information

**Payment Type:** Permits  
**Reference Number:** MULTI PARCELS  
**Phone Number:** 6174485562  
**Email Address:** lofstedtjh@cdmsmith.com


Your confirmation number is: **3939365**

## Payment Information

**Payment Date:** 1/31/2022  
**Payment Amount:** \$26.00  
**Convenience Fee:** \$1.95  
**Total Payment:** \$27.95

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**Digital Time Stamp:**  
01/31/2022 13:37:18  
[EST]

**Payment Method:**  MasterCard

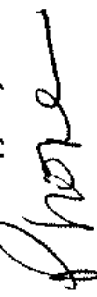
**Card Number:** XXXXXXXXXXXXXXX9664

**Expiration Date:** 0722

MAGDALENA LOFSTEDT

**Billing Zip Code:** 02109

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Signature X

January 28, 2022

Dear Applicant,

Please find below the List of Abutters within 100 feet of the property known as ES Sassaquin Ave (Map: 138, Lot: 191). The current ownership listed herein must be checked and verified by the City of New Bedford Assessor's Office. Following said verification, the list shall be considered a Certified List of Abutters.

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<u>Parcel</u>	<u>Location</u>	<u>Owner and Mailing Address</u>
138-411	SASSAQUIN AVE	SLH PROPERTY INC, C/O SOUTHCOAST VENTURES INC 101 PAGE STREET NEW BEDFORD, MA 02740
138-78	SASSAQUIN AVE	NADEAU KAREN E, NADEAU RICHARD B 1272 SASSAQUIN AVE NEW BEDFORD, MA 02745
138-383	1156 SASSAQUIN AVE	RICHARD MAURICE J, 1156 SASSAQUIN AVENUE NEW BEDFORD, MA 02745
138-401	1154 SASSAQUIN AVE	HEALY RICHARD, 1154 SASSAQUIN AVENUE NEW BEDFORD, MA 02745
138-76	1266 SASSAQUIN AVE	KARVONEN KIMBERLY D, 1266 SASSAQUIN AVENUE NEW BEDFORD, MA 02745
138-90	1333 SASSAQUIN AVE	COSTA DAVID, COSTA ANN P L 1333 SASSAQUIN AVENUE NEW BEDFORD, MA 02745
138-64	1200 SASSAQUIN AVE	BERTOLDO GREG, BERTOLDO JERYL L 1200 SASSAQUIN AVE NEW BEDFORD, MA 02745
138-65	1206 SASSAQUIN AVE	MACCORD WILLIAM K, MACCORD MICHELLE J 1206 SASSAQUIN AVENUE NEW BEDFORD, MA 02745
138-63	1194 SASSAQUIN AVE	SYLVARIA DALE J S, 1194 SASSAQUIN AVE NEW BEDFORD, MA 02745-2234
138-392	1174 SASSAQUIN AVE	HAMMOND NANCY A, 1174 SASSAQUIN AVE NEW BEDFORD, MA 02745
138-60	1182 SASSAQUIN AVE	BARON CHESTER W, 1182 SASSAQUIN AVE NEW BEDFORD, MA 02745
138-57	1184 SASSAQUIN AVE	LANDREVILLE JEAN, LANDREVILLE KAREN F 1184 SASSAQUIN AVE NEW BEDFORD, MA 02745-2234
138-75	1260 SASSAQUIN AVE	ROESSLE KATHLEEN S, KATHLEENS ROESSLE NOMINEE TRUS 1260 SASSAQUIN AVENUE NEW BEDFORD, MA 02745

January 28, 2022

Dear Applicant,

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<u>Parcel</u>	<u>Location</u>	<u>Owner and Mailing Address</u>
138-74	1256 SASSAQUIN AVE	SILVIA JOHN S, 1256 SASSAQUIN AVENUE NEW BEDFORD, MA 02745
138-87	NS TOBEY ST	CITY OF NEW BEDFORD, FRANKLIN GURNEY BEACH 131 WILLIAM ST NEW BEDFORD, MA 02740
138-66	1214 SASSAQUIN AVE	FREY MICHAEL F., 1479 MORTON AVENUE NEW BEDFORD, MA 02745
138-67	1216 SASSAQUIN AVE	PEPIN MARIE I "TRS", RIVELLO CATHERINE J "TRS" 1216 SASSAQUIN AVENUE NEW BEDFORD, MA 02745
138-71	1240 SASSAQUIN AVE	MANDEVILLE ROBERT G, MANDEVILLE CAROL A 1240 SASSAQUIN AVENUE NEW BEDFORD, MA 02745
138-72	12 BLUEJAY ST	ANDREWS JACQUELINE H 12 BLUEJAY ST NEW BEDFORD, MA 02745
138-77	1272 SASSAQUIN AVE	NADEAU KAREN E, NADEAU RICHARD B 1272 SASSAQUIN AVE NEW BEDFORD, MA 02745
138-79	1284 SASSAQUIN AVE	FISH DIANE M, 1284 SASSAQUIN AVE NEW BEDFORD, MA 02745
138-80	1288 SASSAQUIN AVE	PARISEAU RENEE, DUQUETTE ARMAND R 1288 SASSAQUIN AVE NEW BEDFORD, MA 02745
138-83	1300 SASSAQUIN AVE	GENEREUX JANICE 1300 SASSAQUIN AVE NEW BEDFORD, MA 02745
138-191	ES SASSAQUIN AVE	FREY MICHAEL F "TRUSTEE", MANDEVILLE ROBERT G "TRUSTEE", ANDREWS JACQUELINE "TRUSTEE" 1479 MORTON AVE NEW BEDFORD, MA 02745
138-413	1309 SASSAQUIN AVE	SILVA PETER N "TRUSTEE", DEGBOR JOYCELYN A "TRUSTEE", THE SASSAQUIN AVE REVOCABLE TRUST 1309 SASSAQUIN AVE NEW BEDFORD, MA 02745
137-6	NS SASSAQUIN AVE	SLH PROPERTY INC, C/O SOUTHCOAST VENTURES INC 101 PAGE STREET NEW BEDFORD, MA 02740

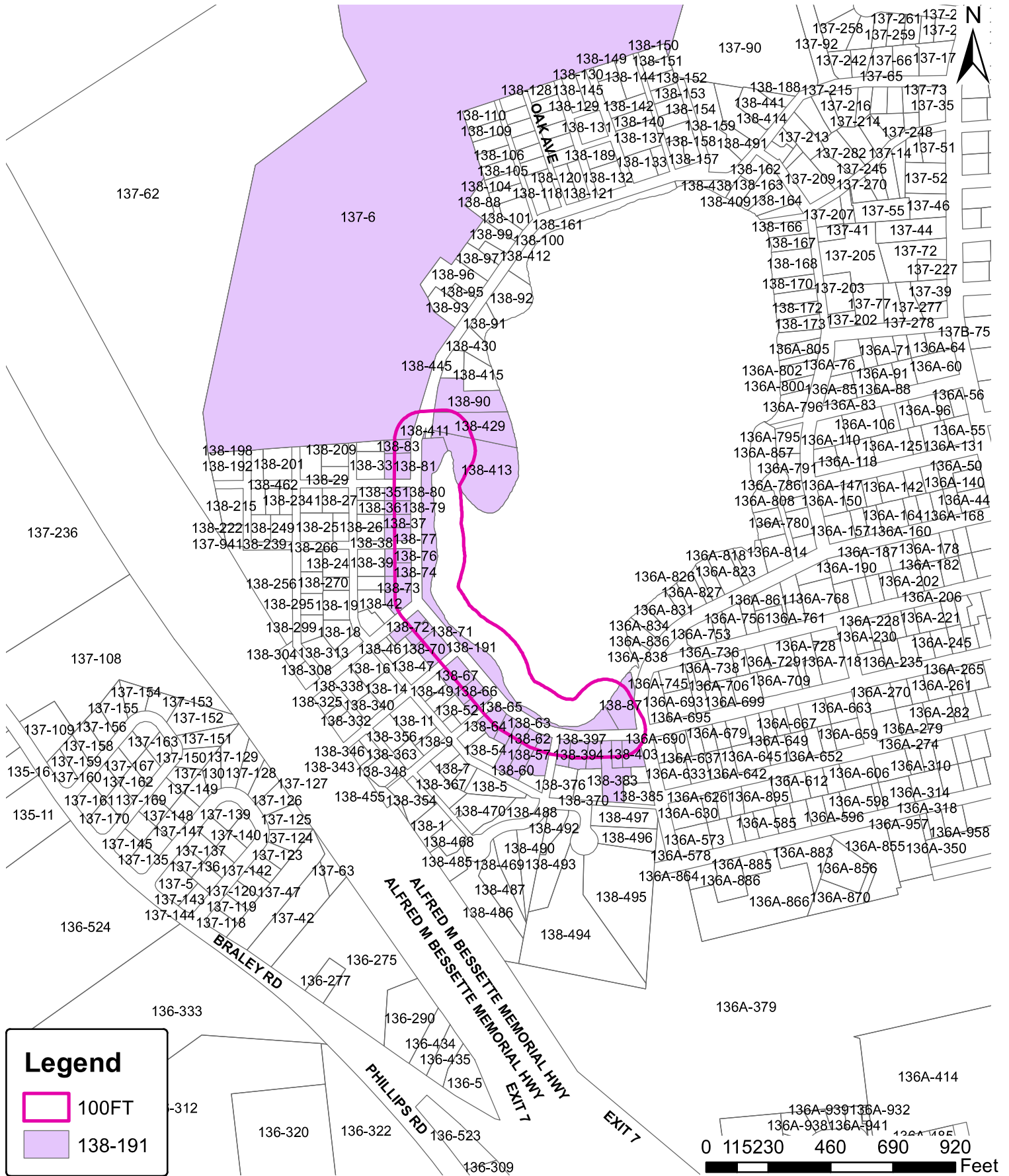
January 28, 2022

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<u>Parcel</u>	<u>Location</u>	<u>Owner and Mailing Address</u>
138-397	1164 SASSAQUIN AVE	REBELLO WAYNE, REBELLO DEBORAH 1164 SASSAQUIN AVENUE NEW BEDFORD, MA 02745
138-403	1152 SASSAQUIN AVE	PIRES SUSAN, 1152 SASSAQUIN AVENUE NEW BEDFORD, MA 02745
138-429	1321 SASSAQUIN AVE	NICHOLSON ERNEST, NICHOLSON MARY LOU 1321 SASSAQUIN AVE NEW BEDFORD, MA 02745
138-73	1250 SASSAQUIN AVE	CABRAL FRANCIS J CABRAL ALISIA T 1250 SASSAQUIN AVENUE NEW BEDFORD, MA 02745
138-81	1296 SASSAQUIN AVE	MACIEL EVA M 1296 SASSAQUIN AVENUE NEW BEDFORD, MA 02745
138-394	1170 SASSAQUIN AVE	MENDONCA GEORGE JR, MENDONCA BARBARA M, MENDONCA MICHAEL G 1170 SASSAQUIN AVE NEW BEDFORD, MA 02745
138-62	1188 SASSAQUIN AVE	GUNNISON BRIAN SOUZA-GUNNISON JENNIFER 1188 SASSAQUIN AVENUE NEW BEDFORD, MA 02745
138-70	1232 SASSAQUIN AVE	CHOR ERIC J JR 1232 SASSAQUIN AVENUE NEW BEDFORD, MA 02745



City of New Bedford, Massachusetts  
Department of City Planning

Parcel within 100FT





*City of New Bedford*  
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SUBJECT PROPERTY			
MAP #	Plot 138	LOT(S)#	Lot 191
ADDRESS: ES Sassaquin Avenue			
OWNER INFORMATION			
NAME: FREY MICHAEL F "TRUSTEE"			
MAILING ADDRESS: FREY MICHAEL F "TRUSTEE" 1479 MORTON AVE NEW BEDFORD , MA 02745			
APPLICANT/CONTACT PERSON INFORMATION			
NAME (IF DIFFERENT): CDM Smith Inc. Attn. Magdalena Lofstedt			
MAILING ADDRESS (IF DIFFERENT): 75 State Street, Suite 701 Boston, MA 02109			
TELEPHONE #	617-452-6597		
EMAIL ADDRESS:	lofstedtmh@cdmsmith.com		
REASON FOR THIS REQUEST: <i>Check appropriate</i>			
<input type="checkbox"/>	ZONING BOARD OF APPEALS APPLICATION		
<input type="checkbox"/>	PLANNING BOARD APPLICATION		
<input checked="" type="checkbox"/>	CONSERVATION COMMISSION APPLICATION		
<input type="checkbox"/>	LICENSING BOARD APPLICATION		
<input type="checkbox"/>	OTHER ( <i>Please explain</i> ):		

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**Michael J. Motta**

Printed Name

Signature

Date





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SUBJECT PROPERTY			
MAP #	138	LOT(S)#	438
ADDRESS: WS Sassaquin Avenue			
OWNER INFORMATION			
NAME: City of New Bedford			
MAILING ADDRESS: 131 William Street New Bedford, MA 02740			
APPLICANT/CONTACT PERSON INFORMATION			
NAME (IF DIFFERENT): CDM Smith Inc. Attn. Magdalena Lofstedt			
MAILING ADDRESS (IF DIFFERENT): 75 State Street, Suite 701 Boston, MA 02109			
TELEPHONE #	(617) 452-6597		
EMAIL ADDRESS:	lofstedtmh@cdmsmith.com		
REASON FOR THIS REQUEST: <i>Check appropriate</i>			
<input type="checkbox"/>	ZONING BOARD OF APPEALS APPLICATION		
<input type="checkbox"/>	PLANNING BOARD APPLICATION		
<input checked="" type="checkbox"/>	CONSERVATION COMMISSION APPLICATION		
<input type="checkbox"/>	LICENSING BOARD APPLICATION		
<input type="checkbox"/>	OTHER ( <i>Please explain</i> ):		

Once obtained, the Certified List of Abutters must be attached to this Certification Letter.

Submit this form to the Department of City Planning, Room 303 in City Hall, 133 William Street, or Email to [Angela.Goncalves@newbedford-ma.gov](mailto:Angela.Goncalves@newbedford-ma.gov). The applicant is responsible for picking up and paying for the certified abutters list from the Assessor's Office (city hall, room #109).

**Official Use Only:**

As Administrative Assistant to the City of New Bedford's Board of Assessors, I do hereby certify that the names and addresses as identified on the attached "abutters list" are duly recorded and appear on the most recent tax.

**Michael J. Motta**

Printed Name

**Michael Motta**

Signature

Digitally signed by Michael Motta  
Date: 2022.02.03 12:55:42 -05'00'

**2/3/2022**

Date

Amount Due

\$5.00

Date Paid

2/2/2022

Confirmation Number

6398195

**CITY OF NEW BEDFORD**

Schedule of Departmental Payments to Treasurer

Single Charge Code

Department/Contact: ASSESSORS  
 GL String: 01411160-439020  
 Treasury: TW06-101010

Date: 01/11/2022  
 Charge Code: ASSFEE

From Whom	Source (cash, check, etc.)	Amount	Total
DEPARTMENTAL RECEIPT		\$5.00	
ABUTTERS LIST	CC		
	6398195		
138-438			
WS Sassaquin Ave			
CDM Smith Inc.			

\$5.00

**To the City Treasurer:**

The above is a detailed list of revenue collected by me, amounting in the aggregate of

Dollars

Receipt#

Signature: *Joyce Arango*

Title:  PRINCIPAL CLERK

**CITY OF NEW BEDFORD**

Schedule of Departmental Payments to Treasurer

Single Charge Code

Department/Contact: ASSESSORS  
 GL String: 01411160-439020  
 Treasury: TW06-101010

Date:   
 Charge Code: ASSFEE

From Whom	Source (cash, check, etc.)	Amount	Total
DEPARTMENTAL RECEIPT			
ABUTTERS LIST	CC		

**To the Departmental Officer making the Payment**

Received in Treasurer's Office....., the sum of

..... Dollars

for collections, as per schedule of this date, filed in my office

Receipt#

-----  
 City Treasurer  
 By \_\_\_\_\_

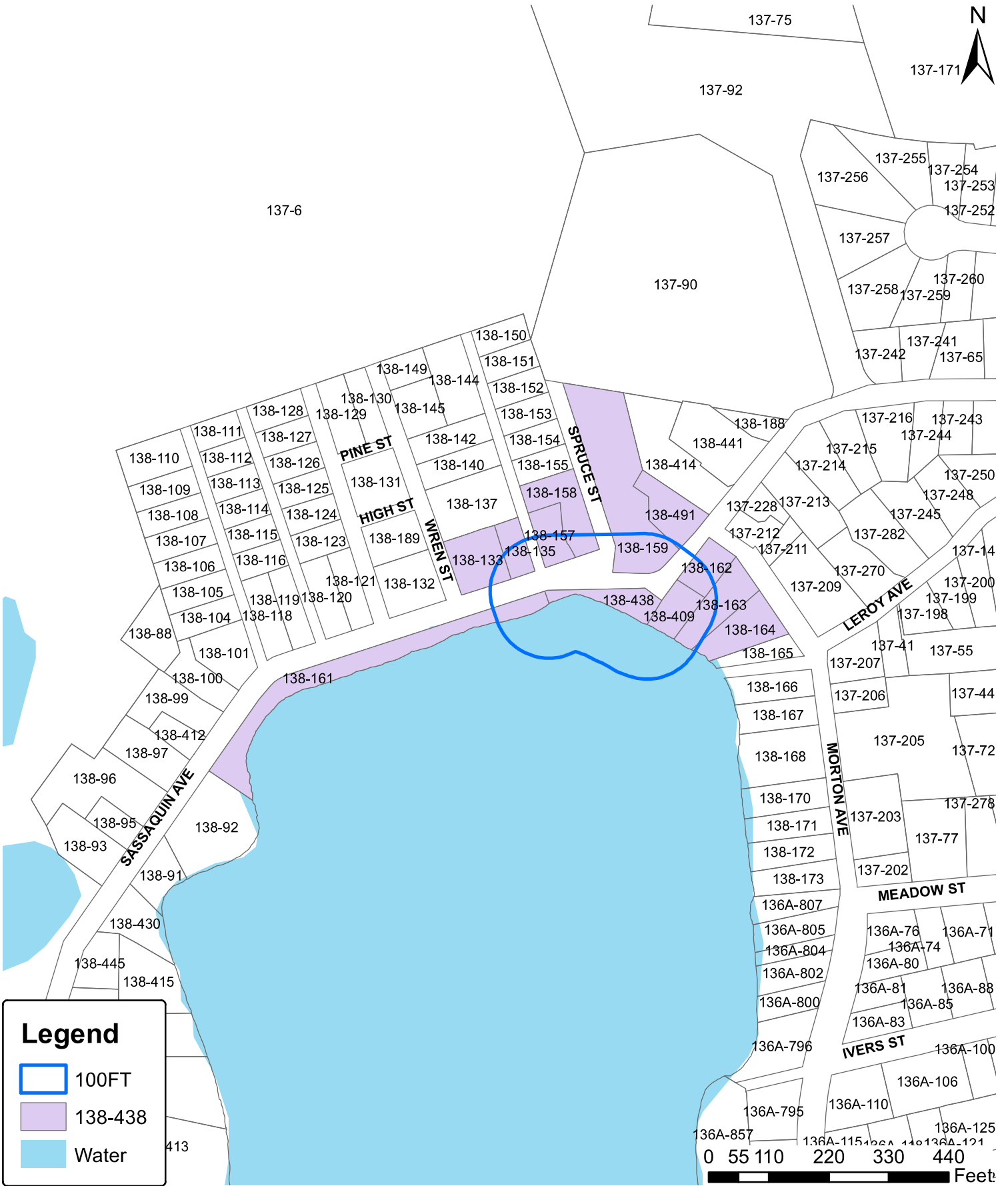
February 2, 2022

Dear Applicant,

Please find below the List of Abutters within 100 feet of the property known as WS Sassaquin (Map: 138, Lot: 438). The current ownership listed herein must be checked and verified by the City of New Bedford Assessor's Office. Following said verification, the list shall be considered a Certified List of Abutters.

Please note that multiple listed properties with identical owner name and mailing address shall be considered duplicates and shall require only 1 mailing. Additionally, City of New Bedford-Owned properties shall not require mailed notice.

<u>Parcel</u>	<u>Location</u>	<u>Owner and Mailing Address</u>
138-491	1491 SASSAQUIN AVE	PELLAND RYAN, PELLAND STACEY 1491 SASSAQUIN AVENUE NEW BEDFORD, MA 02745
138-409	1480 SASSAQUIN AVE	ALVES ELISA M, 1480 SASSAQUIN AVENUE NEW BEDFORD, MA 02745
138-157	1458 SASSAQUIN AVE	JOHNSON HAZEL, 1458 SASSAQUIN AVENUE NEW BEDFORD, MA 02745
138-163	1555 MORTON AVE	DURANT MICHAEL J 1555 MORTON AVE NEW BEDFORD, MA 02745
138-164	1553 MORTON AVE	ORPHAN VICTOR J "TRUSTEE", ORPHAN JEANNE T "TRUSTEE" 7409 MISSION HILLS DRIVE LAS VEGAS, NV 89113
138-162	1488 SASSAQUIN AVE	SOUZA DIONE J, 1486 SASSAQUIN AVENUE NEW BEDFORD, MA 02745
138-161	ES SASSAQUIN AVE	GURNEY LEONARD, C/O JAMES M GURNEY 1398 R SASSAQUIN AVE NEW BEDFORD, MA 02745
138-135	1450 SASSAQUIN AVE	JOHNSON STEPHEN R, C/O RICHARD B JOHNSON 17 LAURA LANE FAIRHAVEN, MA 02719
138-159	1472 SASSAQUIN AVE	OSTLER GEORGE F III, BARTOLOMEY LUZ B 1472 SASSAQUIN AVENUE NEW BEDFORD, MA 02745
138-133	1446 SASSAQUIN AVE	ARRUDA ANTHONY JR, ARRUDA RITA D 1446 SASSAQUIN AVE NEW BEDFORD, MA 02745
138-158	1464 SASSAQUIN AVE	POYANT MATTHEW J "TRUSTEE", POYANT FAMILY IRREVOCABLE TRUST (THE) 1464 SASSAQUIN AVE NEW BEDFORD, MA 02745-2312
138-438	WS SASSAQUIN AVE	CITY OF NEW BEDFORD, 131 WILLIAM ST NEW BEDFORD, MA 02740



City of New Bedford, Massachusetts  
Department of City Planning

Parcel within 100FT



**ATTACHMENT C**  
**PHOTOGRAPHS**



**Photos of Phragmites Areas from Dec. 3, 2021**



Photo 1: Phragmites Area North 1

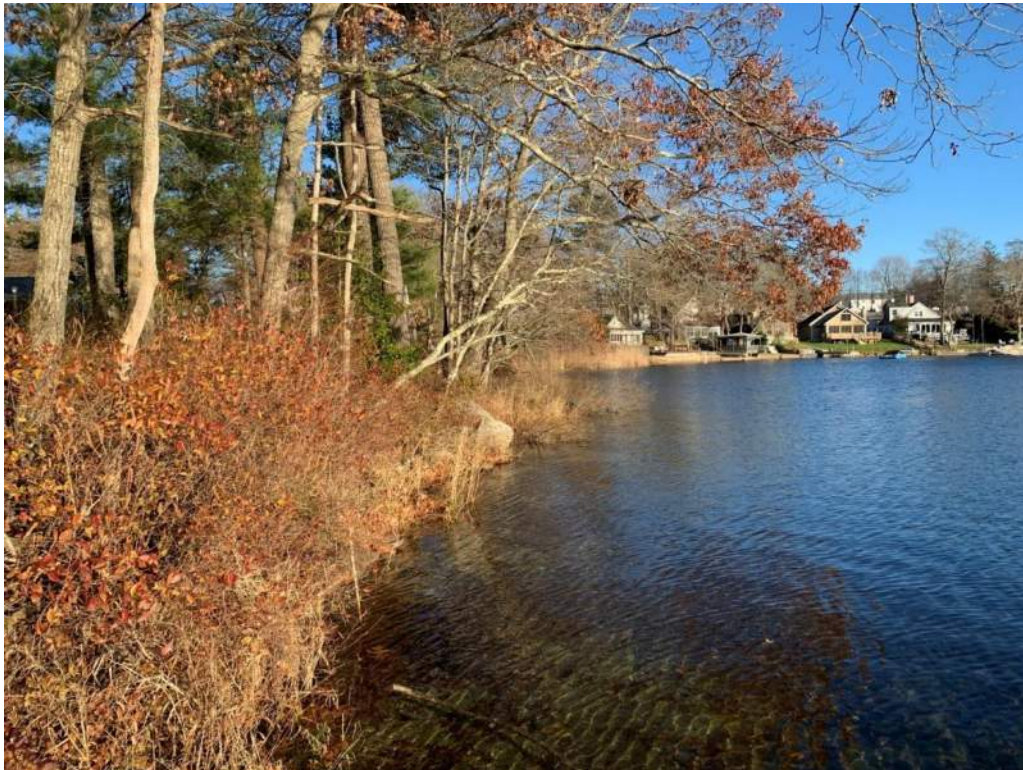


Photo 2: Phragmites Area North 2 (scattered plants)





Photo 3: Phragmites Area North 3, view facing west



Photo 4: Phragmites Area North 3, view facing east





Photo 5: Phragmites Area North 4



Photo 6: Phragmites Area North 5, view facing east





Photo 7: Phragmites Area North 5, view facing west



Photo 8: Phragmites Area West





Photo 9: Phragmites Area South, facing northwest



Photo 10: Phragmites Area South, facing west

**ATTACHMENT D**  
**SASSAQUIN POND WORK PLAN**

## Section 4

# Work Plan Summary

CDM Smith worked closely with the City of New Bedford’s Department of Public Infrastructure to evaluate and prioritize management measures to improve water quality in Sassaquin Pond. Additional discussions were held with the Sassaquin Pond Betterment Association to assess the viability and potential priority of the work plan. These measures were separated into short-term, ongoing, and long-term management measures based on an assessment of the water quality condition of the pond, implementation cost, and cost effectiveness.

Short-term measures and ongoing measures are intended to be implemented by the City within the next year. These are summarized in **Table 4-1**.

**Table 4-1: Summary of Recommended Short-term and Ongoing Water Quality Measures**

Measure	Capital Cost	Annual O&M Cost
<b>Short-term Measures</b>		
Floatable Controls <ul style="list-style-type: none"> <li>▪ Street Sweeping</li> <li>▪ Install 20 New Catch Basin Hoods</li> <li>▪ Install Floatable Control Netting at Four Outfalls</li> </ul>	<ul style="list-style-type: none"> <li>▪ No new cost</li> <li>▪ \$17,500</li> <li>▪ \$28,500</li> </ul>	<ul style="list-style-type: none"> <li>▪ No new cost</li> <li>▪ No new cost; included in ongoing catch basin maintenance</li> <li>▪ Variable depending on debris level. Assuming emptying four nets quarterly: \$4,800</li> </ul>
Phosphorus Inactivation (alum) <ul style="list-style-type: none"> <li>▪ Application</li> <li>▪ Pre- and post-monitoring</li> </ul>	<ul style="list-style-type: none"> <li>▪ \$41,000</li> <li>▪ \$5,300</li> </ul>	<ul style="list-style-type: none"> <li>▪ None</li> </ul>
Implement Recommendations from Sanitary Survey <ul style="list-style-type: none"> <li>▪ Signage, Trash Can, and Bag Dispenser Systems</li> </ul>	<ul style="list-style-type: none"> <li>▪ \$3,300</li> </ul>	<ul style="list-style-type: none"> <li>▪ \$2,500</li> </ul>
Stormwater System WQ Improvements <ul style="list-style-type: none"> <li>▪ Preliminary Design of Potential Sassaquin Avenue Rerouting or GI</li> <li>▪ Downspout Disconnection and Redirection Study and Public Education</li> <li>▪ Removal of Near-shore Impervious Areas Removal</li> </ul>	<ul style="list-style-type: none"> <li>▪ \$78,500 - \$90,500</li> <li>▪ \$34,600 to conduct study, plus City time for program implementation, and an estimated \$17,000 for replacement</li> <li>▪ \$40,600</li> </ul>	<ul style="list-style-type: none"> <li>▪ None</li> <li>▪ None</li> <li>▪ None beyond typical ongoing maintenance</li> </ul>
O&M Investigations <ul style="list-style-type: none"> <li>▪ Acushnet and Sassaquin Avenue Sidewalks</li> <li>▪ Dye Test Outfall DP-262</li> </ul>	<ul style="list-style-type: none"> <li>▪ \$50,000</li> <li>▪ None</li> </ul>	<ul style="list-style-type: none"> <li>▪ None</li> </ul>

Measure	Capital Cost	Annual O&M Cost
Phragmites Removal	<ul style="list-style-type: none"> <li>82,000</li> </ul>	<ul style="list-style-type: none"> <li>None</li> </ul>
Explore Alternative Snow and Ice Removal	<ul style="list-style-type: none"> <li>None</li> </ul>	<ul style="list-style-type: none"> <li>None</li> </ul>
Ongoing Measures		
	First Year Cost	Subsequent Year Cost
<b>Monitoring Program</b> <ul style="list-style-type: none"> <li>Develop sampling plan and QAPP</li> <li>Monitoring program oversight</li> <li>Analytical chemistry costs</li> <li>Data analysis and reporting</li> <li>Implement monitoring program</li> </ul>	<ul style="list-style-type: none"> <li>\$21,000 to develop field sampling plan and QAPP</li> <li>\$38,000 for monitoring program oversight, analytical chemistry, data analysis, and reporting</li> <li>\$30,000 to \$40,000 for a contractor to provide sampling services</li> </ul>	<ul style="list-style-type: none"> <li>\$38,000 for monitoring program oversight, analytical chemistry, data analysis, and reporting</li> <li>\$30,000 to \$40,000 for a contractor to provide sampling services</li> </ul>
<b>Catch Basin Cleaning and Street Sweeping</b> <ul style="list-style-type: none"> <li>Develop and implement improved record keeping system</li> </ul>	<ul style="list-style-type: none"> <li>\$13,000 to develop and implement improved record keeping system</li> <li>\$9,000 per year for additional catch basin cleaning</li> </ul>	<ul style="list-style-type: none"> <li>\$9,000 per year for additional catch basin cleaning</li> </ul>
<b>Public Education</b>	<ul style="list-style-type: none"> <li>\$9,300 to develop Sassaquin Pond public education materials, with an allowance for printing and mailing</li> <li>May require City staff time to attend watershed events</li> </ul>	<ul style="list-style-type: none"> <li>No new costs but may require City staff time to attend watershed events</li> </ul>

Long-term measures could realize a significant water quality improvement within Sassaquin Pond but either require a multi-step implementation process, where the initial step(s) are included in the short-term planning horizon, are too costly to be completed within the short-term planning horizon, require significant permitting, or are anticipated to be less cost-effective than other, short-term actions recommended in this study. CDM Smith recommends that the City consider the following long-term measures:

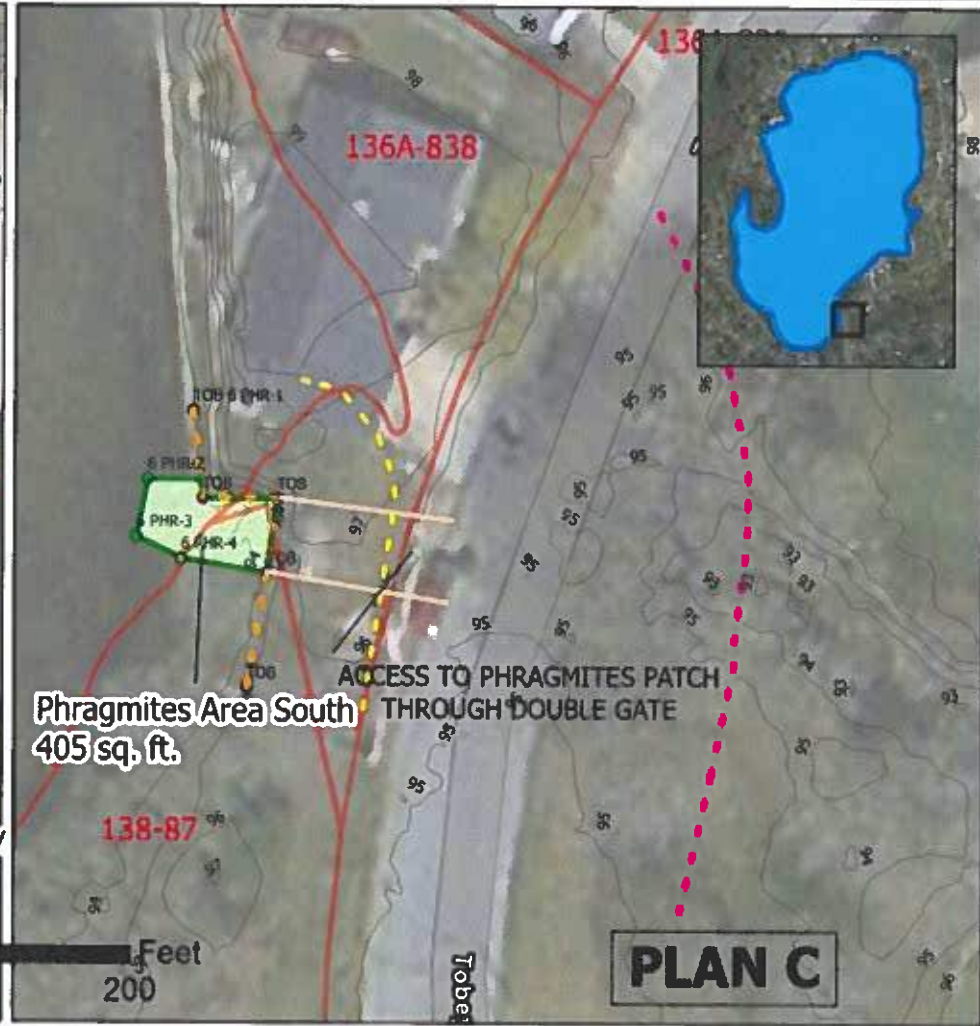
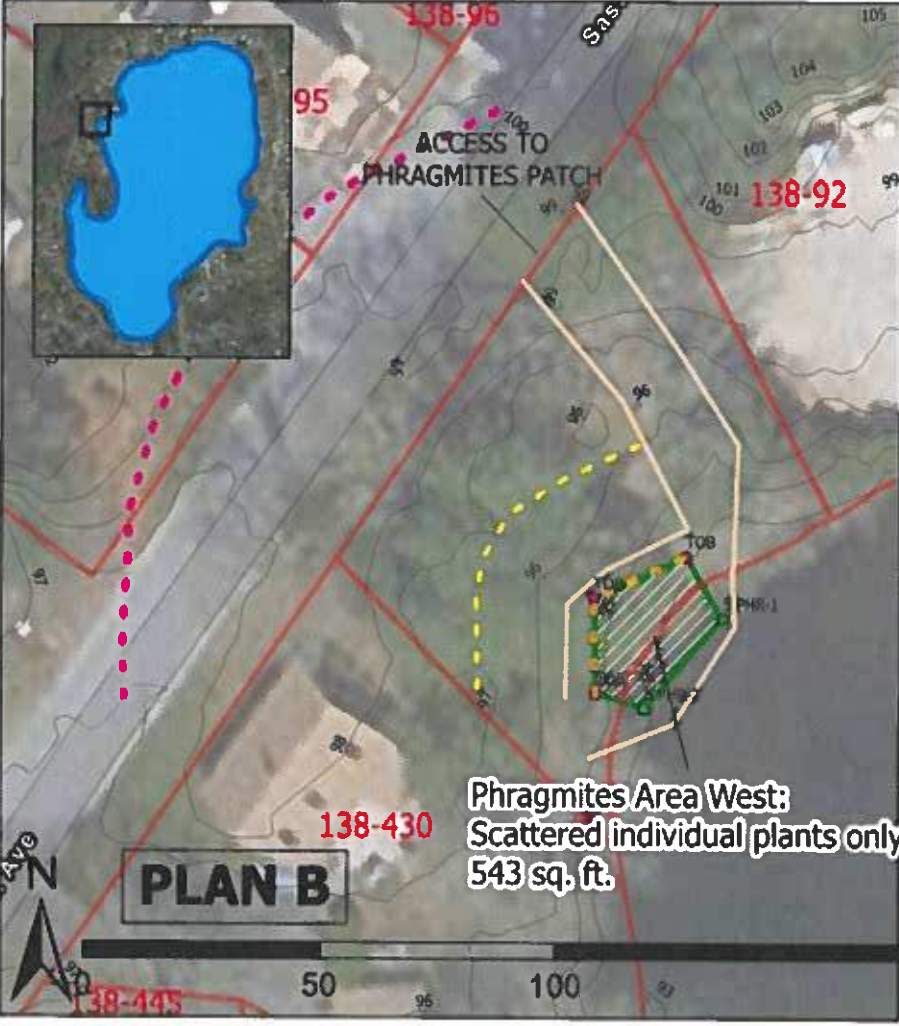
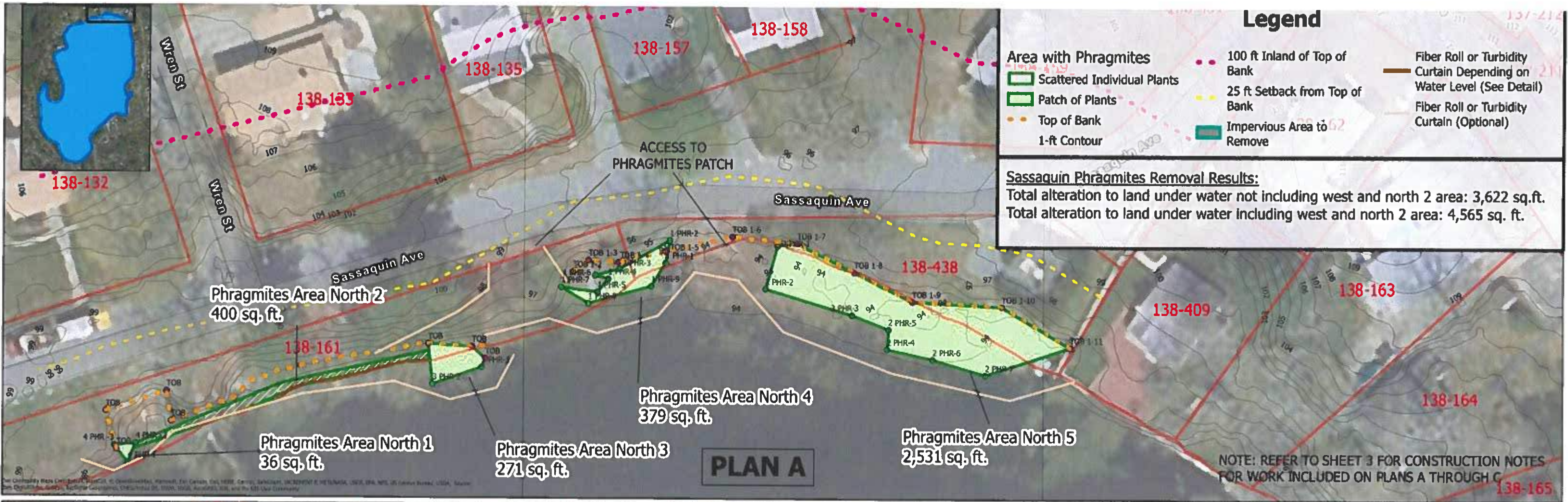
- Re-routing stormwater to bypass Sassaquin Pond from the May Street outfall and the Sassaquin Avenue pump station outfall. This measure would remove stormwater drainage that is located outside of the pond’s natural watershed and should be implemented if the hydrologic and hydraulic analysis indicates that this alternative is feasible.
- Construction of a rain garden and vegetated swale at the Sassaquin Avenue to treat a portion of the first flush of stormwater.

- Construction of an inline baffle box if catch basin hoods and netting is not adequate to control floatables.
- Dredge Sassaquin Pond if the alum treatment and watershed load reduction/green infrastructure and stormwater diversion projects described in the short-term, ongoing, and long-term recommendations do not result in adequate water quality improvements; if survey to identify the reported spring near the cemetery locates it and finds its flow is impeded with recent sediments, conduct an analysis of potential of a target dredging program and remove the sediment, and implement if reasonable.

Implementation of these water quality improvements by the City will improve water quality conditions in Sassaquin Pond.

**ATTACHMENT E**  
**PROJECT PLANS**

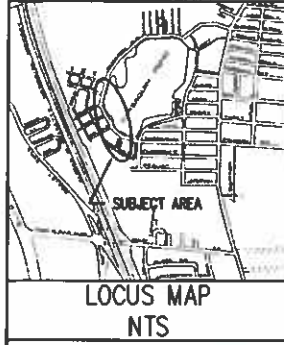




COMMONWEALTH OF MASSACHUSETTS  
 SHAWN T. SYDE  
 No. 46700  
 REGISTERED PROFESSIONAL ENGINEER

2-3-2022

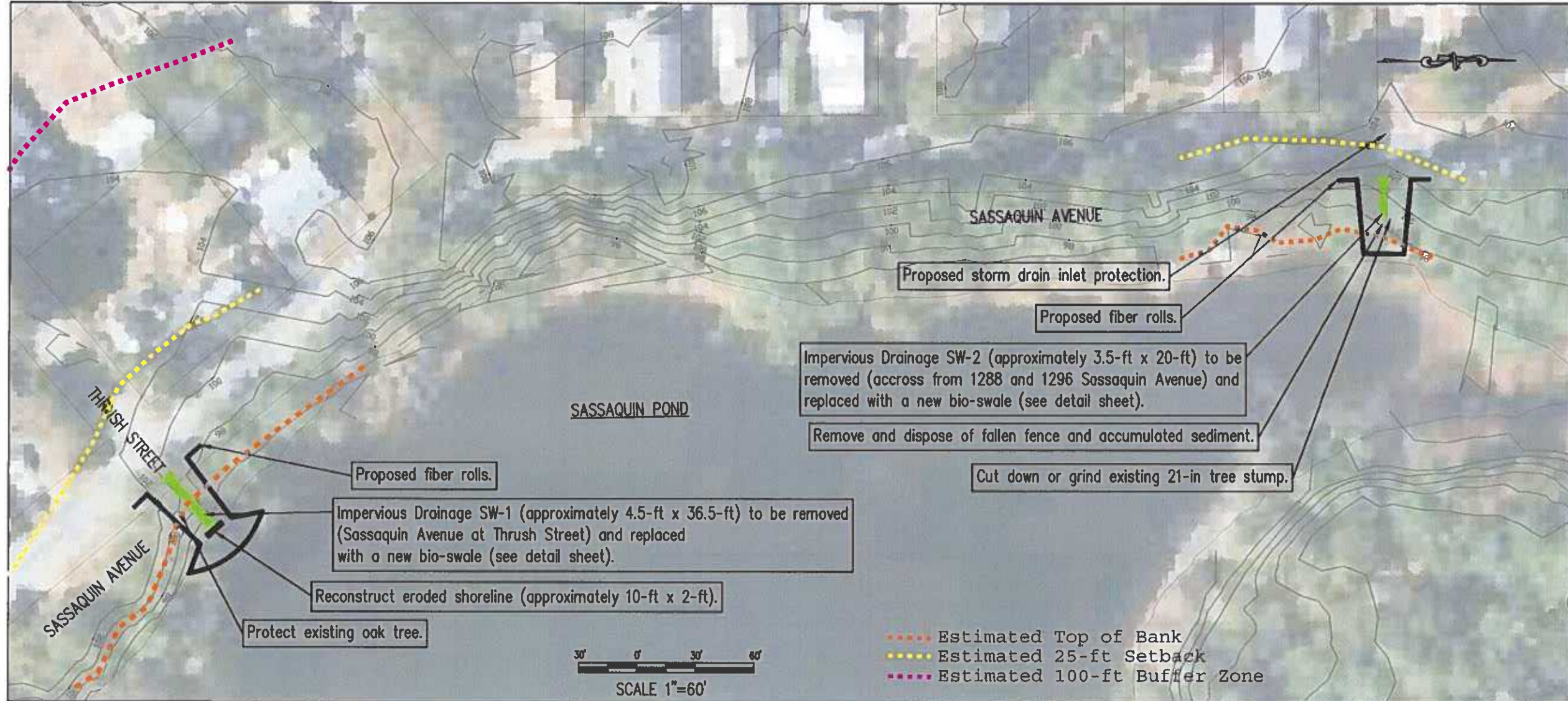




SW-2 Photo A



SW-2 Photo A



PLAN E



SW-1 Photo A



SW-1 Photo B

**NOTE:**

1. RETAIN AND PROTECT ALL EXISTING TREES IN WORK ZONES (SEE DETAIL SHEET).
2. SW-1 IS LOCATED ON THE NORTH SIDE OF SASSAQUIN AVENUE AT THE INTERSECTION OF THRUSH STREET AND RECEIVES APPROXIMATELY 0.4 CFS OF FLOW FROM THE NORTHERN GUTTER LINE OF SASSAQUIN AVENUE DURING A FIVE YEAR STORM EVENT.
3. SW-2 IS LOCATED ON THE EAST SIDE OF SASSAQUIN AVENUE ACROSS FROM 1288-1296 SASSAQUIN AVENUE AND RECEIVES APPROXIMATELY 0.5 CFS OF STORM WATER FLOW FROM THE EASTERN GUTTER LINE OF SASSAQUIN AVENUE IN A FIVE YEAR STORM EVENT.
4. DATUM REFERS TO NAVD 88. SUBTRACT 1.72 TO CITY DATUM.
5. LIMIT OF WORK DEFINED BY FIBER ROLLS.



2-3-2022

CITY OF NEW BEDFORD MASSACHUSETTS DEPARTMENT OF PUBLIC INFRASTRUCTURE

Sassaquin Pond Drainage Swales		DESIGN: D.S.	Scale: NTS	Date: February 3, 2022	Sheet 2 of 5
Green Infrastructure Redesign Locations		CHECK: S.T.S.			
GRAPHIC SCALE					
Owner: Michael Frey & Robert Mandeville					
Property: Plot 138 Lot 191					
					1"=60'



**CONSTRUCTION GENERAL NOTES**

- ACCESS TO IMPERVIOUS AREA SHOWN ON PLAN D SHALL BE THROUGH THE EXISTING OPENING BETWEEN THE CONCRETE BOLLARD FENCE. IF REQUIRED, REMOVE UP TO THREE SECTIONS OF CONCRETE BOLLARD FENCE AND REINSTALL. LIMITS TO BE APPROVED BY THE ENGINEER.
- PROTECT EXISTING CONCRETE BOLLARD FENCE AND PARK BENCH AT PLAN E WORK AREA.
- EXCAVATE AND REMOVE IMPERVIOUS AREA TO THE LIMITS SHOWN. COORDINATE WITH ENGINEER PRIOR TO THE START OF CONSTRUCTION AS SOME AREAS MAY BE BURIED WITH ORGANICS, LEAVES AND SOIL.
- FOR THE WORK SHOWN ON PLAN D, EXCAVATE UP TO OF 6-IN OF MATERIAL BELOW EXISTING BITUMINOUS CONCRETE. THE WORK ON PLAN E SHALL BE COMPLETED IN ACCORDANCE WITH THE DETAILS. ALL EXCAVATED MATERIAL SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REQUIREMENTS. ENGINEER SHALL APPROVE FINAL SUBGRADE.
- PRUNING OF ALL TREES SHALL BE DONE SO UNDER THE SUPERVISION OF THE CITY OF NEW BEDFORD ARBORIST. TREE PRUNING SHALL BE KEPT TO A MINIMUM TO FACILITATE CONSTRUCTION. COORDINATE WITH ENGINEER PRIOR TO THE START OF CONSTRUCTION.
- ANY AREA DISTURBED OUTSIDE OF THE LIMITS OF WORK SHALL BE REPAIRED TO EXISTING OR BETTER CONDITION AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL NOT EXCAVATE OR REMOVE SEDIMENT FROM SASSAQUIN POND. ACCESS TO POND IS ONLY ALLOWED FOR WORK TO BE COMPLETED SHOWN ON PLAN A, PLAN B, AND PLAN C. NO ACCESS IS ALLOWED FOR WORK SHOWN ON PLAN D AND PLAN E.
- ACCESS TO PHRAGMITES PATCHES SHOWN ON WORK AREA PLANS A THROUGH C SHALL BE FROM THE ADJACENT ROADWAY. NO ACCESS FROM POND. RESTORE ALL DISTURBED AREAS AS SPECIFIED.
- CITY OF NEW BEDFORD TO OBTAIN RIGHT OF ENTRY FORMS PRIOR TO THE START OF CONSTRUCTION.
- INSTALL, MAINTAIN AND PROTECT EROSION AND SEDIMENTATION CONTROL DEVICES THROUGH THE DURATION OF THE PROJECT. FOLLOWING EACH RAINFALL EVENT, INSPECT THE DEVICES FOR DAMAGE. FOLLOWING CONSTRUCTION, PROPERLY REMOVE AND DISPOSE OF ANY SEDIMENT AND EROSION AND SEDIMENTATION CONTROL DEVICES.
- FOR THE PURPOSES OF THE WORK ON THIS PROJECT. CONTRACTOR SHALL REFER TO THE FIRM COMPLETING THE CONSTRUCTION OR IMPROVEMENTS. ENGINEER SHALL REFER TO THE DPI ENGINEERING DIVISION OR THEIR AUTHORIZED DESIGNEE AND OWNER SHALL REFER TO THE CITY OF NEW BEDFORD.

**SITE RESTORATION NOTES**

- ALL DISTURBED AREAS SHALL BE LOAMED AND SEEDED AND RESTORED TO EXISTING OR BETTER CONDITION.
- AREAS WHERE STUMPS ARE TO BE REMOVED SHALL HAVE THE EXCAVATION BACKFILLED WITH STRUCTURAL FILL AND COMPACTED TO A MINIMUM 93% AS DETERMINED BY MODIFIED PROCTOR. PLACE FILL IN HORIZONTAL LAYERS NOT EXCEEDING 6-IN.
- ANY PLANTS OR SEED SHALL HAVE A MINIMUM WARRANTY PERIOD OF ONE YEAR. CITY OF NEW BEDFORD IS RESPONSIBLE FOR ANY AND ALL MAINTENANCE ENSURING PROPER GROWTH OF ANY PLANTINGS DURING THAT TIME PERIOD.
- LOAM SHALL BE PLACED TO A MINIMUM DEPTH OF 6-IN IN AREAS DISTURBED TO ACCESS WORK AREAS AND 6-IN IN AREAS WHERE IMPERVIOUS AREA IS REMOVED SHOWN ON PLAN D.
- LOAM SHALL MEET THE FOLLOWING SPECIFICATION:
  - LOAM SHALL BE A MIXTURE OF SAND, SILT AND CLAY PARTICLES EXHIBITING SANDY AND CLAYEY PROPERTIES IN AN ABOUT EQUAL PROPORTION.
  - LOAM MATERIAL SHALL BE SCREENED AND REASONABLY FREE OF STUMPS, VEGETATION, ROOTS, HEAVY OR STIFF CLAY, STONES EQUAL TO OR LARGER THAN 1-IN IN ANY DIMENSION, LUMPS, GRAVEL, NOXIOUS WEEDS, STICKS, BRUSH, OR OTHER LITTER. IT SHALL CONTAIN NO TOXIC MATERIALS. ADD SOIL AMENDMENTS INCLUDING ORGANICS IF REQUIRED AT NO ADDITIONAL COST TO THE OWNER.
  - AFTER LOAM MATERIAL HAS BEEN STOCKPILED AND PRIOR TO PLACEMENT AND FINE GRADING, LOAM SHALL BE TESTED FOR NUTRIENT FERTILIZER REQUIREMENTS, PH, LIME REQUIREMENTS AND ORGANIC CONTENT. LOAM SHALL CONTAIN NOT LESS THAN 4% NOR MORE THAN 8% ORGANIC MATTER AS DETERMINED BY THE LOSS ON IGNITION OF OVEN DRIED SAMPLES. TEST SAMPLES SHALL BE OVEN DRIED TO A CONSTANT TEMPERATURE OF 100 DEGREE CENTIGRADE. THE LOAM SHALL BE AMENDED, PRIOR TO PLACING AND FINAL GRADING, BY THE ADDITION OF LEAF MOLD, YARD WASTE COMPOST OR PEAT MOSS. USE OF ORGANIC AMENDMENTS IS ACCEPTABLE ONLY IF A SOIL TEST INDICATES A NEED AND THE MATERIAL IS THOROUGHLY INCORPORATED.
  - THE PH VALUE SHALL BE BETWEEN 5.5 AND 6.5.
  - ALL MATERIALS TESTED AND INCORPORATED INTO THE SITE SHALL MATCH THE SAMPLES PROVIDED TO THE ENGINEER.
- LOAM INSTALLATION SHALL BE AS FOLLOWS:
  - THERE SHALL BE NO PLACEMENT OF LOAM OR PLANTS PRIOR TO APPROVAL OF FINAL SUBGRADE BY ENGINEER.
  - THE SUBGRADE OF ALL AREAS TO BE LOAMED AND SEEDED SHALL BE RAKED AND ALL RUBBISH, STICKS, ROOTS AND STONES LARGER THAN 2-IN REMOVED. SUBGRADE SURFACE SHALL BE HARROWED, RAKED OR OTHERWISE LOOSENEED TO A DEPTH OF 4-IN. LARGE STONES AND BOULDERS SHALL BE REMOVED OR BURIED 12-IN BELOW FINISHED GRADE.
  - DO NOT OVERWORK LOAM. LOAM SHALL NOT BE SPREAD WHILE IT IS FROZEN OR WET NOR IF THE SUBGRADE IS FROZEN OR WET.
  - THE FINAL SURFACE SHALL BE RAKED CLEAN OF DELETERIOUS MATERIAL TO A SMOOTH, UNIFORM SURFACE. DO NOT ESTABLISH FINISH GRADE DURING UNSETTLED WEATHER. ALL DEPRESSIONS SHALL BE FILLED WITH ADDITIONAL LOAM TO ESTABLISH FINISHED GRADE.
- SEED MIX SHALL MEET THE FOLLOWING REQUIREMENTS:
  - SEED MIX SHALL BE LABELED IN ACCORDANCE WITH USDA RULES AND REGULATION. SEED SHALL BE FROM THE SAME OR PREVIOUS YEAR'S CROP; EACH VARIETY OF SEED SHALL HAVE A PERCENTAGE OF GERMINATION NOT LESS THAN 90, A PERCENTAGE OF PURITY NOT LESS THAN 85 AND SHALL NOT HAVE MORE THAN 1 PERCENT WEED CONTENT AND CONTAIN NO NOXIOUS WEEDS.
  - TYPE 1 - EROSION CONTROL/RESTORATION MIX FOR DRY SITES**
    - MIX SHALL BE BY NEW ENGLAND WETLANDS PLANTS, INC. OR EQUAL AND SHALL CONSIST OF THE FOLLOWING:

Botanical Name	Common Name	Indicator
<i>Elymus canadensis</i>	Canada Wild Rye	FACU+
<i>Festuca rubra</i>	Red Fescue	FACU
<i>Lolium multiflorum</i>	Annual Ryegrass	
<i>Lolium perenne</i>	Perennial Ryegrass	
<i>Schizachyrium scoparium</i>	Little Bluestem	FACU
<i>Panicum virgatum</i>	Switch Grass	FAC
<i>Sorghastrum nutans</i>	Indian Grass	UPL

**c. TYPE 2 - NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DETENTION BASINS AND MOIST SITES**

- MIX SHALL BE BY NEW ENGLAND WETLANDS PLANTS, INC. OR EQUAL AND SHALL CONSIST OF THE FOLLOWING:

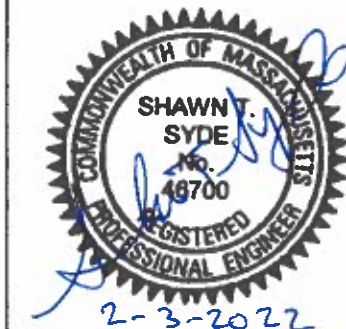
Botanical Name	Common Name	Indicator
<i>Elymus riparius</i>	Riverbank Wild Rye	FACW
<i>Schizachyrium scoparium</i>	Little Bluestem	FACU
<i>Festuca rubra</i>	Red Fescue	FACU
<i>Andropogon gerardii</i>	Big Bluestem	FAC
<i>Panicum virgatum</i>	Switch Grass	FAC
<i>Vernonia noveboracensis</i>	New York Ironweed	FACW+
<i>Agrostis perennans</i>	Upland Bentgrass	FACU
<i>Bidens frondosa</i>	Beggar Ticks	FACW
<i>Eupatorium maculatum (Eutrochium maculatum)</i>	Spotted Joe Pye Weed	OBL
<i>Eupatorium perfoliatum</i>	Boneset	FACW
<i>Aster novae-angliae (Symphyotrichum novae-angliae)</i>	New England Aster	FACW-
<i>Scirpus cyperinus</i>	Wool Grass	FACW
<i>Juncus effusus</i>	Soft Rush	FACW+

**d. TYPE 3 - NEW ENGLAND WILDFLOWER MIX**

- MIX SHALL BE BY NEW ENGLAND WETLANDS PLANTS, INC. OR EQUAL AND SHALL CONSIST OF THE FOLLOWING:

Botanical Name	Common Name	Indicator
<i>Schizachyrium scoparium</i>	Little Bluestem	FACU
<i>Sorghastrum nutans</i>	Indian Grass	UPL
<i>Chamaecrista fasciculata</i>	Partridge Pea	FACU
<i>Elymus virginicus</i>	Virginia Wild Rye	FACW-
<i>Elymus canadensis</i>	Canada Wild Rye	FACU+
<i>Festuca rubra</i>	Red Fescue	FACU
<i>Asclepias tuberosa</i>	Butterfly Milkweed	NI
<i>Vernonia noveboracensis</i>	New York Ironweed	FACW+
<i>Oenothera biennis</i>	Evening Primrose	FACU-
<i>Aster novae-angliae (Symphyotrichum novae-angliae)</i>	New England Aster	FACW-
<i>Rudbeckia hirta</i>	Black Eyed Susan	FACU-
<i>Solidago juncea</i>	Early Goldenrod	
<i>Eupatorium fistulosum (Eutrochium fistulosum)</i>	Hollow-Stem Joe Pye Weed	FACW
<i>Aster lateriflorus (Symphyotrichum lateriflorum)</i>	Starved/Calico Aster	FACW

- STRAW MULCH SHALL BE COMPRISED OF THRESHED STRAW OF OATS, WHEAT, BARLEY OR RY THAT IS FREE FROM NOXIOUS WEEDS, MOLD OR OTHER OBJECTIONABLE MATERIAL. THE STRAW MULCH SHALL CONTAIN AT LEAST 60% BY WEIGHT OF MATERIAL TO BE 10-IN OR LONGER. STRAW SHALL BE IN AN AIR DRY CONDITION AND SUITABLE FOR PLACEMENT WITH BLOWER EQUIPMENT.
- SEED SHALL BE INSTALLED AS FOLLOWS:
    - EROSION CONTROL/RESTORATION MIX SHALL BE APPLIED AT A RATE OF 1,250 SF PER POUND. SEED IN SPRING OR LATE SUMMER. MID SUMMER SEEDING SHALL HAVE A LAYER OF STRAW MULCH APPLIED.
    - NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DETENTION BASINS AND MOIST SITES MIX SHALL BE APPLIED AT A RATE OF 1,250 SF PER POUND.
    - WILDFLOWER MIX SHALL BE APPLIED AT A RATE OF 1,900 SF PER POUND.



CITY OF NEW BEDFORD MASSACHUSETTS DEPARTMENT OF PUBLIC INFRASTRUCTURE

Sassaquin Pond Drainage Swales Construction Specifications

GRAPHIC SCALE

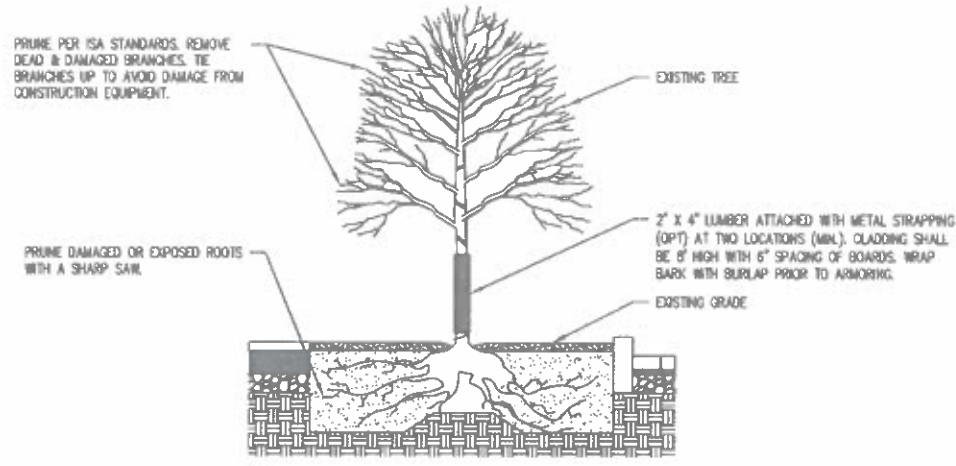
Owner: Michael Frey & Robert Mandeville  
Property: Plot 138 Lot 191

DESIGN: D.S.  
CHECK: S.T.S.

Scale: NTS  
Date: February 3, 2022

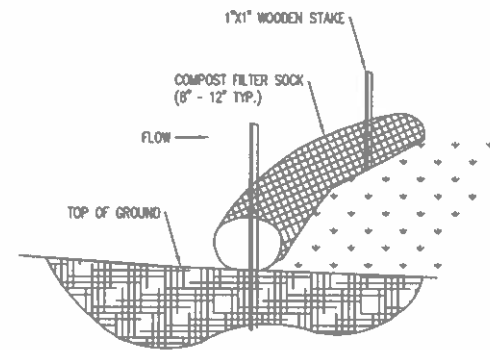
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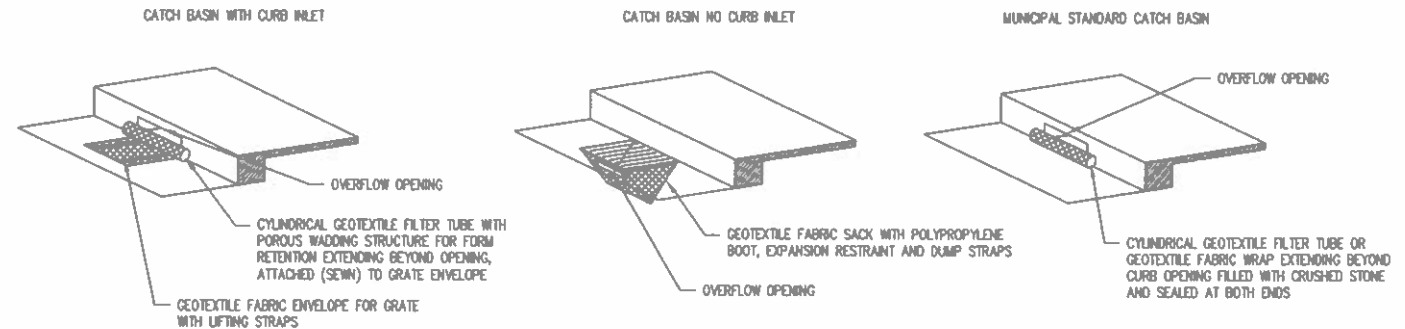
**TREE PROTECTION**  
NTS

NOTE: NO STORAGE OF EQUIPMENT OR STOCKPILING OF MATERIALS WITHIN DRILLING.



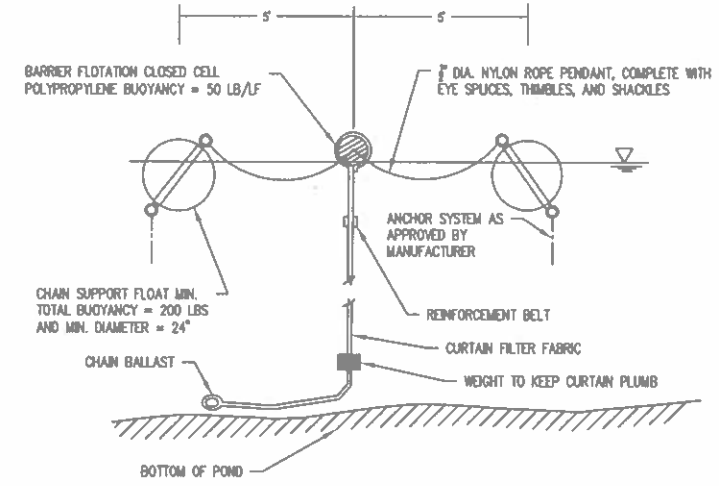
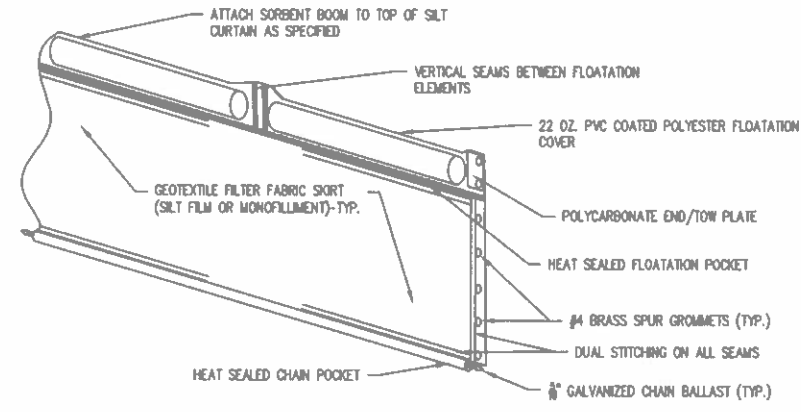
- NOTES:
1. COMPOST FILTER SOCK SHALL BE FASTENED SECURELY TO THE GROUND. FASTENERS OR STAKES WILL BE SPACED EVERY 10 FEET.
  2. WHEN TWO SECTIONS OF COMPOST FILTER SOCK ADJOIN EACH OTHER THEY SHALL BE LAID ACCORDING TO MANUFACTURERS RECOMMENDATIONS.
  3. INSPECTIONS SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
  4. COMPOST FILTER SOCK AND ALL FASTENERS WILL BE REMOVED FROM SITE AT THE COMPLETION OF THE WORK.

**COMPOST FILTER SOCK FOR EROSION CONROL**  
NTS



**STORM DRAIN INLET PROTECTION**  
NTS

NOTE: GEOTEXTILE FABRIC USED SHALL CONFORM TO REQUIREMENTS OF AASHTO M288 FOR THE INTENDED APPLICATION. SEDIMENT SHALL BE REMOVED ONCE DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT. REFER TO SPECIFICATIONS.



**SILT CURTAIN WITH SORBENT BOOM SECTION**  
NTS

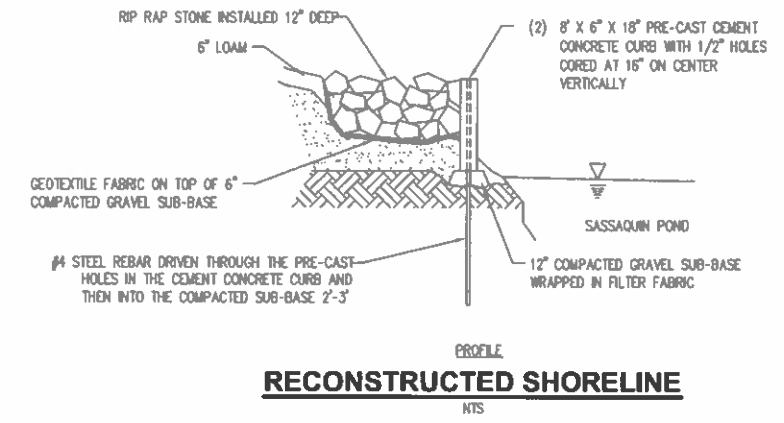
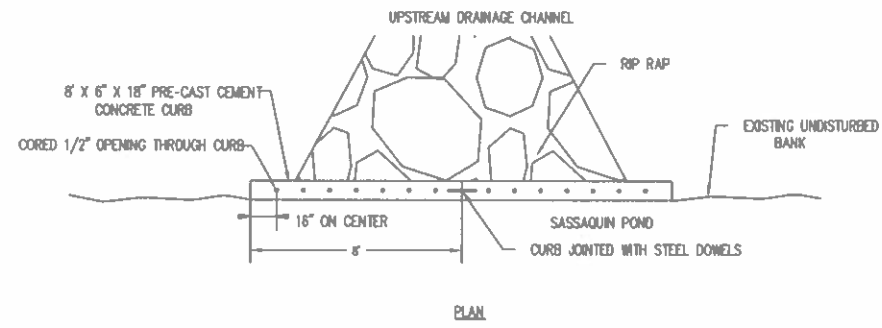
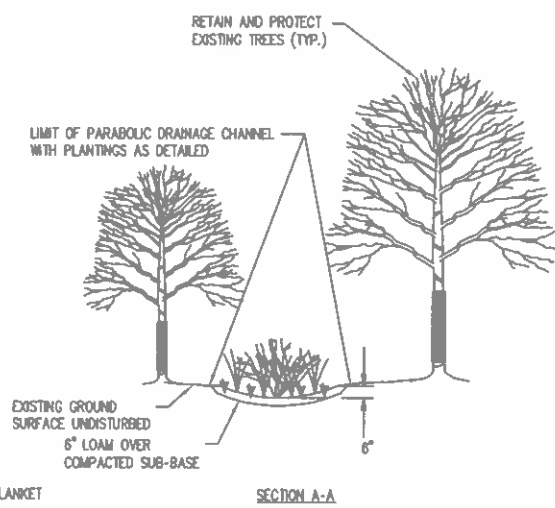
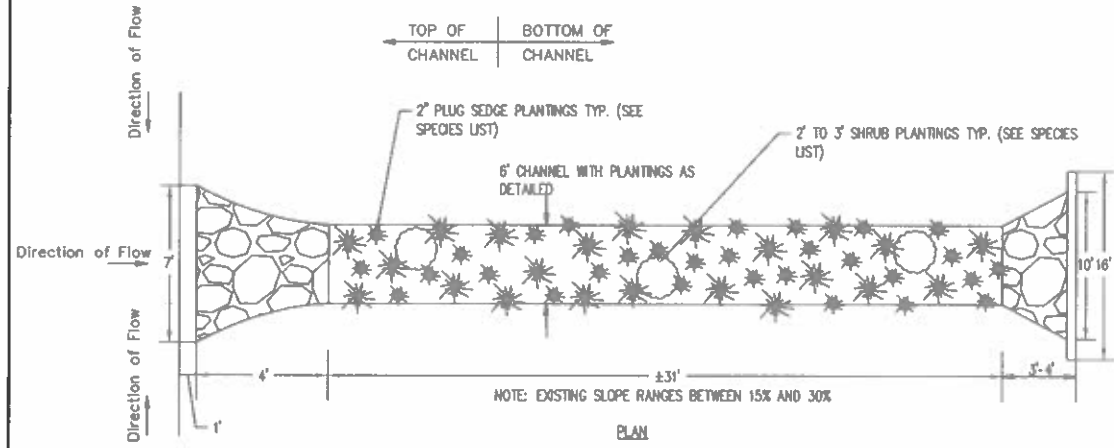
NOTE: DEPENDING ON WATER LEVEL AT TIME OF CONSTRUCTION, INSTALL A TURBIDITY CURTAIN OR FIBER ROLLS ALONG THE POND SIDE OF WORK AREA.



CITY OF NEW BEDFORD MASSACHUSETTS DEPARTMENT OF PUBLIC INFRASTRUCTURE

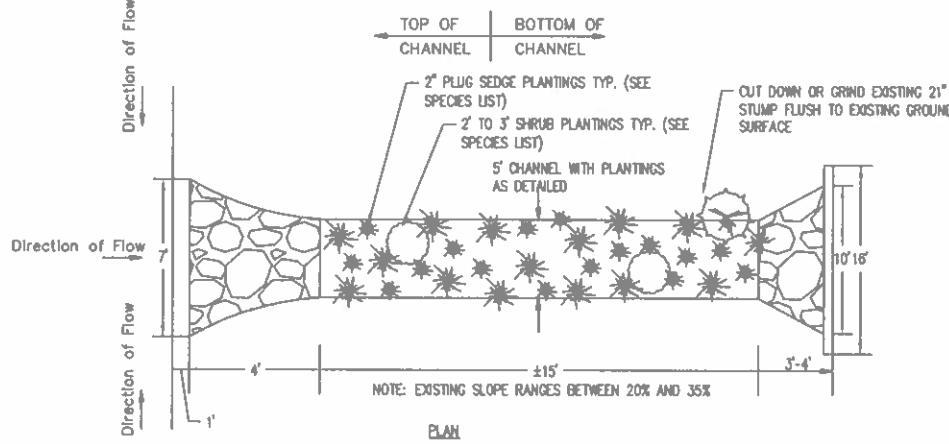
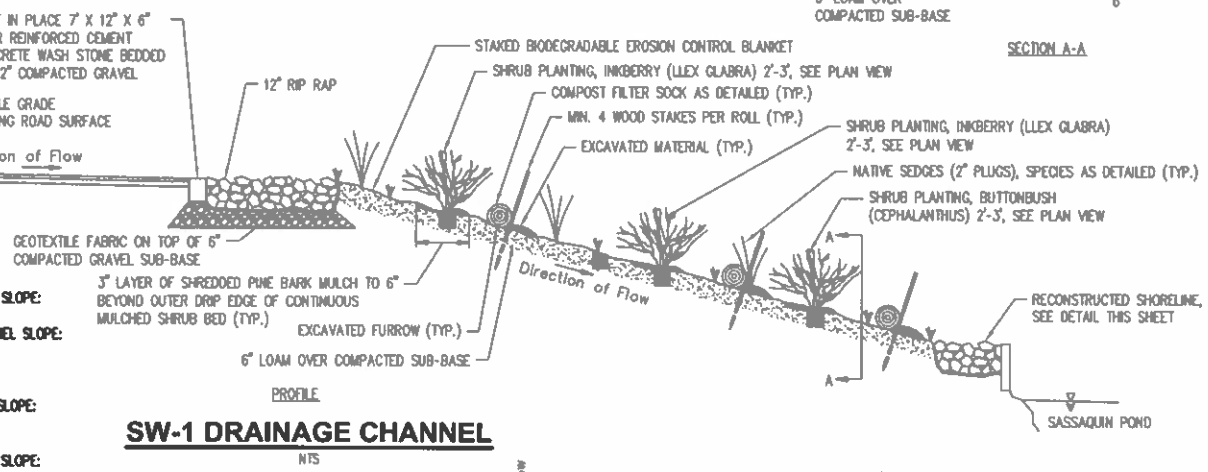
Sassaquin Pond Drainage Swales Sediment and Erosion Control Detail Sheet		Scale: NTS	Date: February 3, 2022	Sheet 4 of 5
DESIGN: D.S.	CHECK: S.T.S.	Revision:	Date:	
GRAPHIC SCALE		NTS		
Owner: Michael Frey & Robert Mandeville		Property: Plot 138 Lot 191		



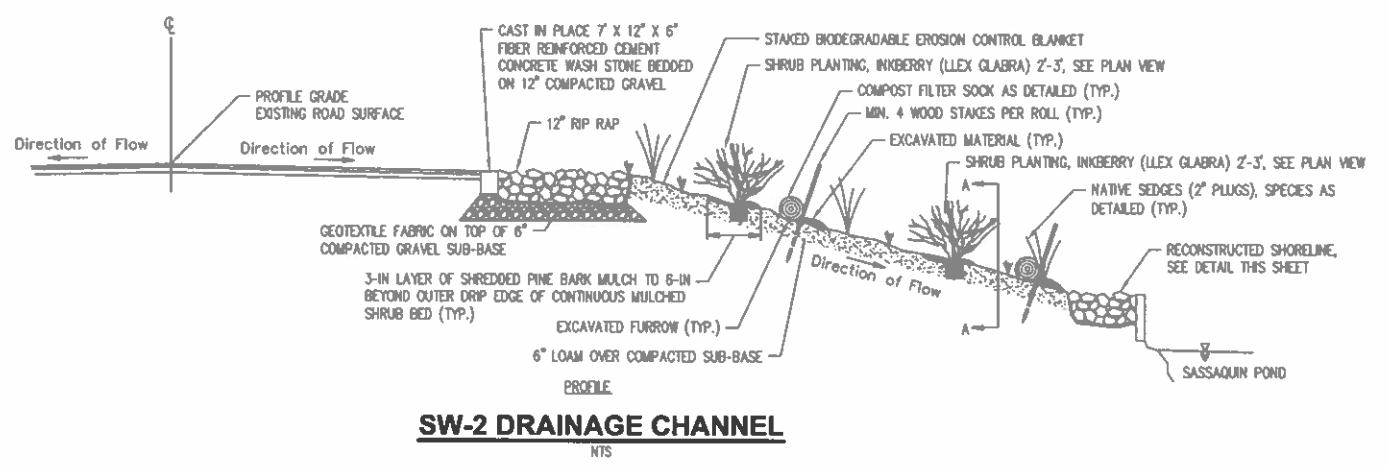


**SPECIES LIST FOR DRAINAGE CHANNEL SW-1 PLANTINGS**

- SHRUBS**  
 -FOR PLANTING AT THE TOP OF THE DRAINAGE CHANNEL SLOPE:  
 1- INKBERRY (LLEX GLABRA)  
 -FOR PLANTING MID TO BOTTOM OF THE DRAINAGE CHANNEL SLOPE:  
 2- BUTTONEBUSH (CEPHALANTHUS OCCIDENTALIS)
- NATIVE SEDGES (2" PLUGS)**  
 -FOR PLANTING MID TO BOTTOM OF DRAINAGE CHANNEL SLOPE:  
 40- COMMON SOFT RUSH (JUNCUS EFFUSUS)  
 40- LURID SEDGE (CAREX LURIDA)  
 -FOR PLANTING AT THE TOP OF THE DRAINAGE CHANNEL SLOPE:  
 15- GRAY'S SEDGE (CAREX GRAY)



- SPECIES LIST FOR DRAINAGE CHANNEL SW-2 PLANTINGS**
- SHRUBS**  
 -FOR PLANTING AT THE TOP OF THE DRAINAGE CHANNEL SLOPE:  
 1- INKBERRY (LLEX GLABRA)  
 -FOR PLANTING AT THE BOTTOM OF THE DRAINAGE CHANNEL SLOPE:  
 1- BUTTONEBUSH (CEPHALANTHUS OCCIDENTALIS)
- NATIVE SEDGES (2" PLUGS)**  
 -FOR PLANTING AT THE BOTTOM OF DRAINAGE CHANNEL SLOPE:  
 15- COMMON SOFT RUSH (JUNCUS EFFUSUS)  
 15- LURID SEDGE (CAREX LURIDA)  
 -FOR PLANTING AT THE TOP OF THE DRAINAGE CHANNEL SLOPE:  
 15- GRAY'S SEDGE (CAREX GRAY)



CITY OF NEW BEDFORD MASSACHUSETTS DEPARTMENT OF PUBLIC INFRASTRUCTURE	Sassaquin Pond Drainage Swales	DESIGN: D.S.	Scale: NTS	Date: February 3, 2022	Sheet 5 of 5
	Drainage Channel Detail Sheet	CHECK: S.T.S.			
GRAPHIC SCALE	NTS	Revision:			
Owner: Michael Frey & Robert Mandeville	Property: Plot 138 Lot 191				

